Full wwPDB X-ray Structure Validation Report (i)

Aug 5, 2026 – 07:21 AM EDT

PDB ID	:	3A0B / pdb_00003a0b
Title	:	Crystal structure of Br-substituted Photosystem II complex
Authors	:	Kawakami, K.; Umena, Y.; Kamiya, N.; Shen, J.-R.
Deposited on	:	2009-03-16
Resolution	:	3.70 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (i)) were used in the production of this report:

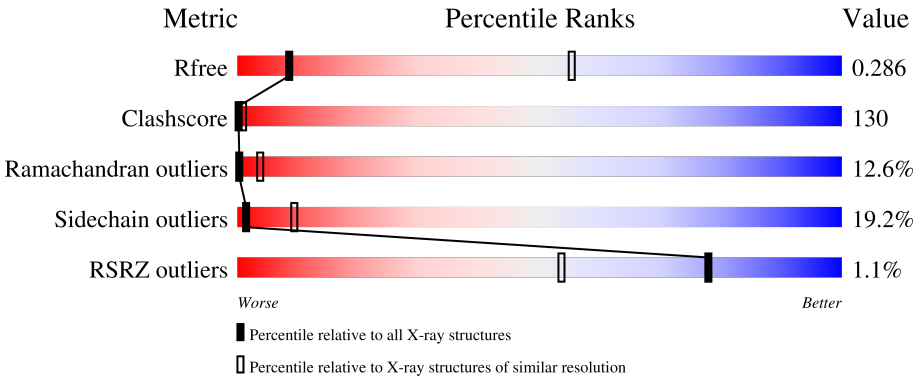
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.70 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



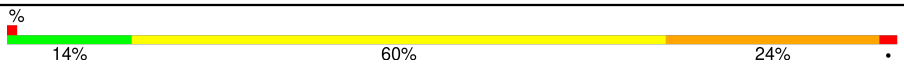
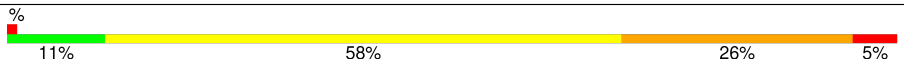
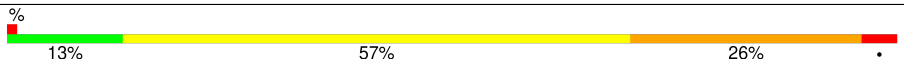
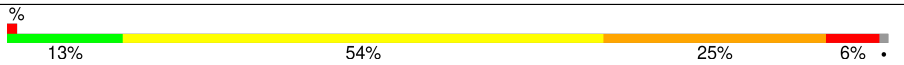
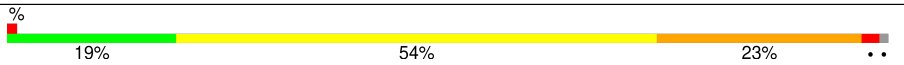
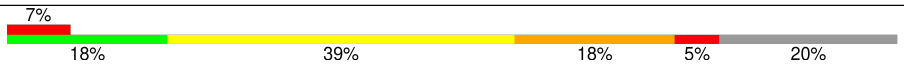
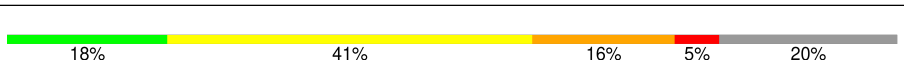
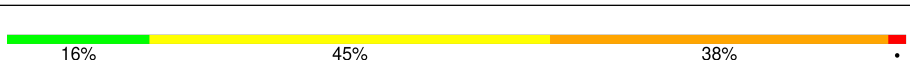
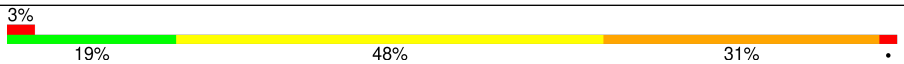
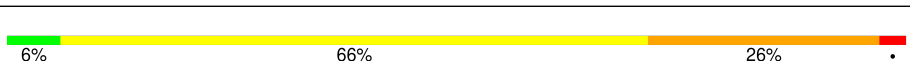
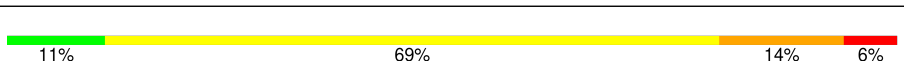
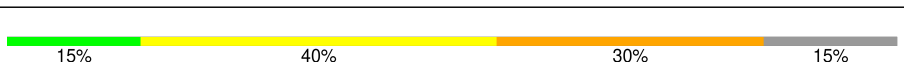
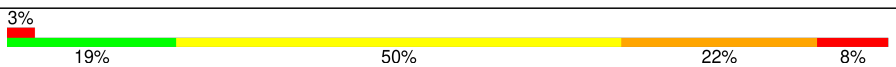
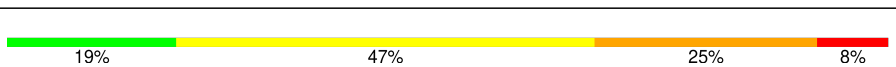
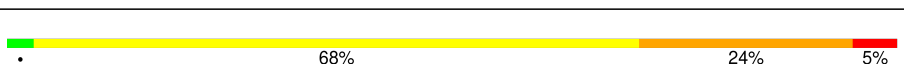
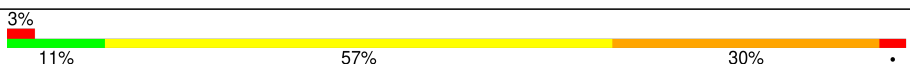
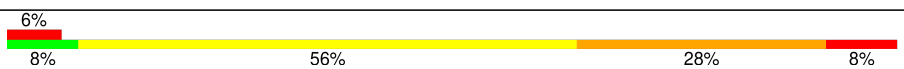
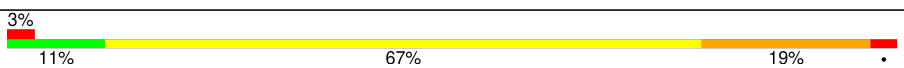
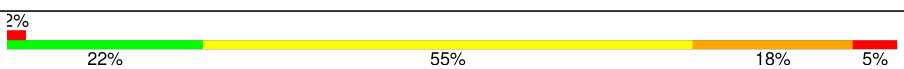
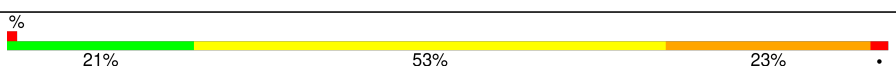
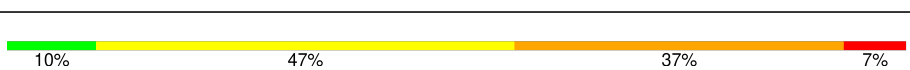
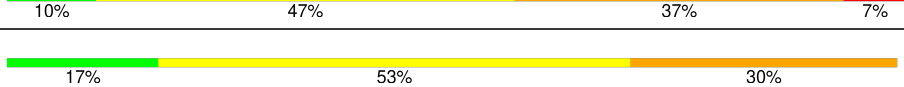
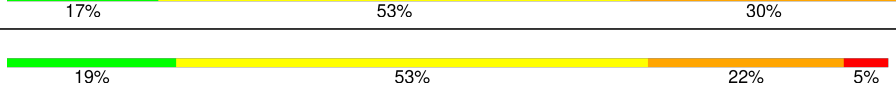
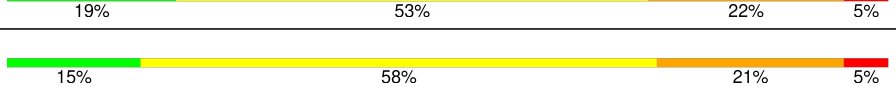
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1131 (3.80-3.60)
Clashscore	190562	1171 (3.80-3.60)
Ramachandran outliers	187476	1129 (3.80-3.60)
Sidechain outliers	187428	1126 (3.80-3.60)
RSRZ outliers	180081	1130 (3.80-3.60)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	344	7% 60% 27%
1	a	344	7% 58% 28% 5%
2	B	488	14% 60% 22%
2	b	488	12% 58% 26%
3	C	447	14% 56% 28%

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Mol	Chain	Length	Quality of chain
3	c	447	
4	D	340	
4	d	340	
5	E	83	
5	e	83	
6	F	44	
6	f	44	
7	H	64	
7	h	64	
8	I	35	
8	i	35	
9	J	40	
9	j	40	
10	K	36	
10	k	36	
11	L	37	
11	l	37	
12	M	36	
12	m	36	
13	O	242	
13	o	242	
14	T	30	
14	t	30	
15	U	98	
15	u	98	

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Mol	Chain	Length	Quality of chain
16	V	137	4% 14% 55% 27%
16	v	137	18% 52% 28%
17	X	34	21% 44% 32%
17	x	34	3% 24% 38% 38%
18	Y	28	7% 50% 39%
18	y	28	14% 46% 29% 11%
19	N	24	88% 12%
19	n	24	96%
20	Z	62	5% 53% 35% 6%
20	z	62	11% 52% 35%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
23	CLA	A	1003	-	-	X	-
23	CLA	A	1006	-	-	X	-
23	CLA	A	1007	X	-	-	-
23	CLA	B	1009	X	-	X	-
23	CLA	B	1010	-	-	X	-
23	CLA	B	1011	-	-	X	-
23	CLA	B	1012	-	-	X	-
23	CLA	B	1013	-	-	X	-
23	CLA	B	1014	X	-	X	-
23	CLA	B	1015	-	-	X	-
23	CLA	B	1016	-	-	X	-
23	CLA	B	1018	-	-	X	-
23	CLA	B	1019	X	-	X	-
23	CLA	B	1020	X	-	X	-
23	CLA	B	1021	X	-	X	-
23	CLA	B	1022	X	-	X	-
23	CLA	B	1023	X	-	X	-
23	CLA	B	1024	X	-	X	-
23	CLA	C	1025	X	-	X	-
23	CLA	C	1026	X	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
23	CLA	C	1027	X	-	X	-
23	CLA	C	1028	X	-	X	-
23	CLA	C	1029	X	-	X	-
23	CLA	C	1030	-	-	X	-
23	CLA	C	1031	X	-	X	-
23	CLA	C	1032	-	-	X	-
23	CLA	C	1033	X	-	X	-
23	CLA	C	1034	X	-	X	-
23	CLA	C	1036	X	-	X	-
23	CLA	C	1037	X	-	X	-
23	CLA	D	1005	X	-	X	-
23	CLA	D	1008	-	-	X	-
23	CLA	H	1017	X	-	X	-
23	CLA	a	6003	-	-	X	-
23	CLA	a	6006	-	-	X	-
23	CLA	a	6007	X	-	-	-
23	CLA	b	6009	X	-	X	-
23	CLA	b	6010	-	-	X	-
23	CLA	b	6011	-	-	X	-
23	CLA	b	6012	-	-	X	-
23	CLA	b	6013	-	-	X	-
23	CLA	b	6014	X	-	X	-
23	CLA	b	6015	-	-	X	-
23	CLA	b	6016	-	-	X	-
23	CLA	b	6017	X	-	X	-
23	CLA	b	6019	X	-	X	-
23	CLA	b	6020	X	-	X	-
23	CLA	b	6021	X	-	X	-
23	CLA	b	6022	X	-	X	-
23	CLA	b	6023	X	-	X	-
23	CLA	b	6024	X	-	X	-
23	CLA	c	6025	X	-	X	-
23	CLA	c	6026	X	-	X	-
23	CLA	c	6027	X	-	X	-
23	CLA	c	6028	X	-	X	-
23	CLA	c	6029	X	-	X	-
23	CLA	c	6030	-	-	X	-
23	CLA	c	6031	X	-	X	-
23	CLA	c	6032	-	-	X	-
23	CLA	c	6033	X	-	X	-
23	CLA	c	6034	X	-	X	-
23	CLA	c	6035	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
23	CLA	c	6036	X	-	X	-
23	CLA	c	6037	X	-	X	-
23	CLA	d	6005	X	-	X	-
23	CLA	d	6008	-	-	X	-
24	PHO	A	1038	X	-	X	-
24	PHO	A	1039	X	-	X	-
24	PHO	a	6039	X	-	X	-
24	PHO	d	6038	X	-	X	-
25	PQ9	D	1042	-	-	X	-
25	PQ9	d	6042	-	-	X	-
26	BCR	A	1044	-	-	X	-
26	BCR	B	1045	-	-	X	-
26	BCR	B	1047	-	-	X	-
26	BCR	B	1048	-	-	X	-
26	BCR	C	1054	-	-	X	-
26	BCR	D	1050	-	-	X	-
26	BCR	H	1049	-	-	X	-
26	BCR	K	1051	-	-	X	-
26	BCR	K	1052	-	-	X	-
26	BCR	T	6046	-	-	X	-
26	BCR	Z	1053	-	-	X	-
26	BCR	a	6044	-	-	X	-
26	BCR	b	6045	-	-	X	-
26	BCR	b	6047	-	-	X	-
26	BCR	b	6048	-	-	X	-
26	BCR	c	6054	-	-	X	-
26	BCR	d	6050	-	-	X	-
26	BCR	h	6049	-	-	X	-
26	BCR	k	6051	-	-	X	-
26	BCR	k	6052	-	-	X	-
26	BCR	t	1046	-	-	X	-
26	BCR	z	6053	-	-	X	-
27	LHG	A	1063	-	-	X	-
27	LHG	a	6063	-	-	X	-
28	BR	A	1065	-	-	X	-
29	MGE	B	1060	-	-	X	-
29	MGE	D	1062	-	-	X	-
29	MGE	J	1059	-	-	X	-
29	MGE	L	1061	-	-	X	-
29	MGE	b	6060	-	-	X	-
29	MGE	d	6059	-	-	X	-
29	MGE	d	6061	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
29	MGE	d	6062	-	-	X	-
30	DGD	C	1055	-	-	X	-
30	DGD	C	1056	-	-	X	-
30	DGD	C	1057	-	-	X	-
30	DGD	H	1058	-	-	X	-
30	DGD	c	6055	-	-	X	-
30	DGD	c	6056	-	-	X	-
30	DGD	c	6057	-	-	X	-
30	DGD	h	6058	-	-	X	-

2 Entry composition (i)

There are 31 unique types of molecules in this entry. The entry contains 47988 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Photosystem Q(B) protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	335	Total	C	N	O	S	0	0	0
			2630	1720	435	460	15			
1	a	335	Total	C	N	O	S	0	0	0
			2630	1720	435	460	15			

- Molecule 2 is a protein called Photosystem II core light harvesting protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	485	Total	C	N	O	S	0	0	0
			3816	2505	635	663	13			
2	b	485	Total	C	N	O	S	0	0	0
			3816	2505	635	663	13			

- Molecule 3 is a protein called Photosystem II CP43 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	447	Total	C	N	O	S	0	0	0
			3455	2264	576	602	13			
3	c	447	Total	C	N	O	S	0	0	0
			3455	2264	576	602	13			

- Molecule 4 is a protein called Photosystem II D2 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	340	Total	C	N	O	S	0	0	0
			2706	1794	440	460	12			
4	d	340	Total	C	N	O	S	0	0	0
			2706	1794	440	460	12			

- Molecule 5 is a protein called Cytochrome b559 subunit alpha.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	E	82	Total 666	C 434	N 108	O 124	0	0	0
5	e	82	Total 666	C 434	N 108	O 124	0	0	0

- Molecule 6 is a protein called Cytochrome b559 subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	35	Total 282	C 192	N 46	O 43	S 1	0	0	0
6	f	35	Total 282	C 192	N 46	O 43	S 1	0	0	0

- Molecule 7 is a protein called Photosystem II reaction center protein H.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	H	64	Total 507	C 339	N 81	O 85	S 2	0	0	0
7	h	64	Total 507	C 339	N 81	O 85	S 2	0	0	0

- Molecule 8 is a protein called Photosystem II reaction center protein I.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	I	35	Total 287	C 195	N 45	O 46	S 1	0	0	0
8	i	35	Total 287	C 195	N 45	O 46	S 1	0	0	0

- Molecule 9 is a protein called Photosystem II reaction center protein J.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	J	34	Total 249	C 170	N 38	O 40	S 1	0	0	0
9	j	34	Total 249	C 170	N 38	O 40	S 1	0	0	0

- Molecule 10 is a protein called Photosystem II reaction center protein K.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	K	36	Total 278	C 195	N 38	O 45	0	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	k	36	Total 278	C 195	N 38	O 45	0	0	0

- Molecule 11 is a protein called Photosystem II reaction center protein L.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	L	37	Total 304	C 202	N 48	O 53	S 1	0	0	0
11	l	37	Total 304	C 202	N 48	O 53	S 1	0	0	0

- Molecule 12 is a protein called Photosystem II reaction center protein M.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	M	36	Total 283	C 187	N 42	O 53	S 1	0	0	0
12	m	36	Total 283	C 187	N 42	O 53	S 1	0	0	0

- Molecule 13 is a protein called Photosystem II manganese-stabilizing polypeptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	O	242	Total 1841	C 1152	N 311	O 374	S 4	0	0	0
13	o	242	Total 1841	C 1152	N 311	O 374	S 4	0	0	0

- Molecule 14 is a protein called Photosystem II reaction center protein T.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	T	30	Total 257	C 180	N 36	O 39	S 2	0	0	0
14	t	30	Total 257	C 180	N 36	O 39	S 2	0	0	0

- Molecule 15 is a protein called Photosystem II 12 kDa extrinsic protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	U	98	Total 783	C 496	N 130	O 157	0	0	0
15	u	98	Total 783	C 496	N 130	O 157	0	0	0

- Molecule 16 is a protein called Cytochrome c-550.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	V	137	Total	C	N	O	S	0	0	0
			1064	675	177	208	4			
16	v	137	Total	C	N	O	S	0	0	0
			1064	675	177	208	4			

- Molecule 17 is a protein called Photosystem II reaction center protein X.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
17	X	34	Total	C	N	O	0	0	0
			246	166	36	44			
17	x	34	Total	C	N	O	0	0	0
			246	166	36	44			

- Molecule 18 is a protein called Photosystem II reaction center protein ycf12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	Y	28	Total	C	N	O	S	0	0	0
			208	137	36	32	3			
18	y	28	Total	C	N	O	S	0	0	0
			208	137	36	32	3			

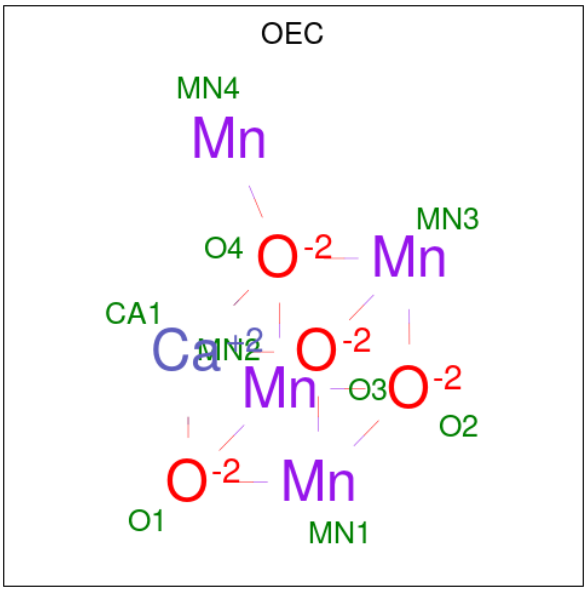
- Molecule 19 is a protein called Photosystem II reaction center protein Y.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
19	N	24	Total	C	N	O	0	0	0
			121	72	24	25			
19	n	24	Total	C	N	O	0	0	0
			121	72	24	25			

- Molecule 20 is a protein called Photosystem II reaction center protein Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	Z	62	Total	C	N	O	S	0	0	0
			479	328	72	77	2			
20	z	62	Total	C	N	O	S	0	0	0
			479	328	72	77	2			

- Molecule 21 is OXYGEN EVOLVING SYSTEM (CCD ID: OEC) (formula: $CaMn_4O_4$).

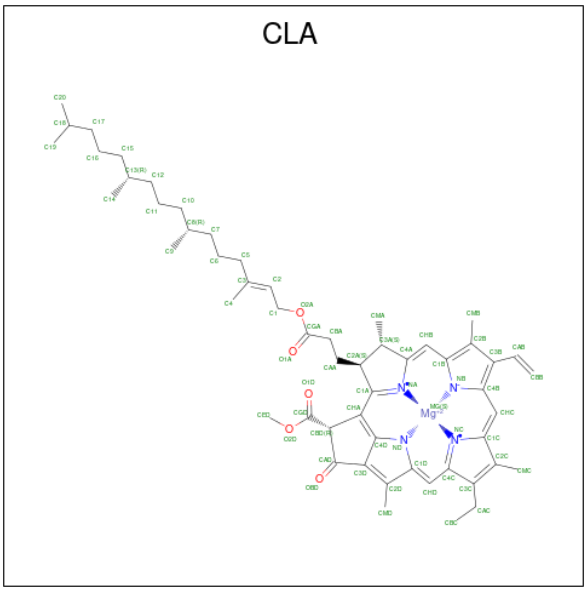


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
21	A	1	Total Ca Mn 5 1 4	0	0
21	a	1	Total Ca Mn 5 1 4	0	0

- Molecule 22 is FE (II) ION (CCD ID: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
22	A	1	Total Fe 1 1	0	0
22	a	1	Total Fe 1 1	0	0

- Molecule 23 is CHLOROPHYLL A (CCD ID: CLA) (formula: $C_{55}H_{72}MgN_4O_5$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
23	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	A	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	B	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	D	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	D	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	D	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	H	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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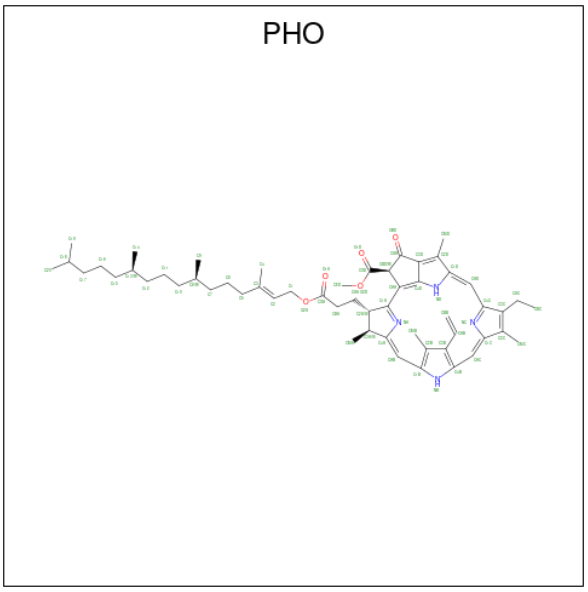
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
23	a	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	a	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	a	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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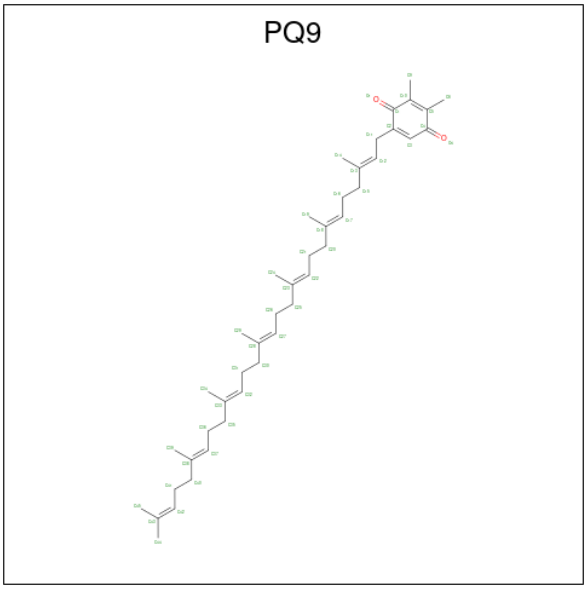
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	c	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	d	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	d	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
23	d	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

- Molecule 24 is PHEOPHYTIN A (CCD ID: PHO) (formula: $C_{55}H_{74}N_4O_5$).



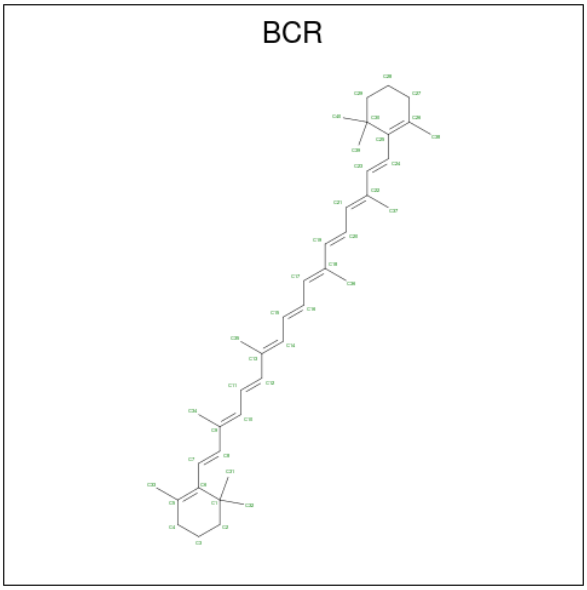
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
24	A	1	Total	C	N	O	0	0
			64	55	4	5		
24	A	1	Total	C	N	O	0	0
			64	55	4	5		
24	a	1	Total	C	N	O	0	0
			64	55	4	5		
24	d	1	Total	C	N	O	0	0
			64	55	4	5		

- Molecule 25 is 5-[(2E,6E,10E,14E,18E,22E)-3,7,11,15,19,23,27-HEPTAMETHYLOCTACOSA-2,6,10,14,18,22,26-HEPTAENYL]-2,3-DIMETHYLBENZO-1,4-QUINONE (CCD ID: PQ9) (formula: $C_{43}H_{64}O_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
25	A	1	Total C O 45 43 2	0	0
25	D	1	Total C O 45 43 2	0	0
25	a	1	Total C O 45 43 2	0	0
25	d	1	Total C O 45 43 2	0	0

- Molecule 26 is BETA-CAROTENE (CCD ID: BCR) (formula: $C_{40}H_{56}$).



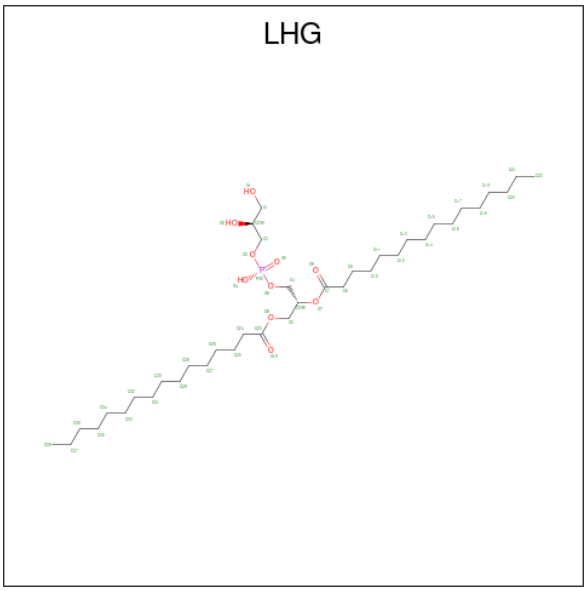
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
26	A	1	Total C 40 40	0	0
26	B	1	Total C 40 40	0	0
26	B	1	Total C 40 40	0	0
26	B	1	Total C 40 40	0	0
26	C	1	Total C 40 40	0	0
26	D	1	Total C 40 40	0	0
26	H	1	Total C 40 40	0	0
26	K	1	Total C 40 40	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
26	K	1	Total C 40 40	0	0
26	T	1	Total C 40 40	0	0
26	Z	1	Total C 40 40	0	0
26	a	1	Total C 40 40	0	0
26	b	1	Total C 40 40	0	0
26	b	1	Total C 40 40	0	0
26	b	1	Total C 40 40	0	0
26	c	1	Total C 40 40	0	0
26	d	1	Total C 40 40	0	0
26	h	1	Total C 40 40	0	0
26	k	1	Total C 40 40	0	0
26	k	1	Total C 40 40	0	0
26	t	1	Total C 40 40	0	0
26	z	1	Total C 40 40	0	0

- Molecule 27 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: $C_{38}H_{75}O_{10}P$).

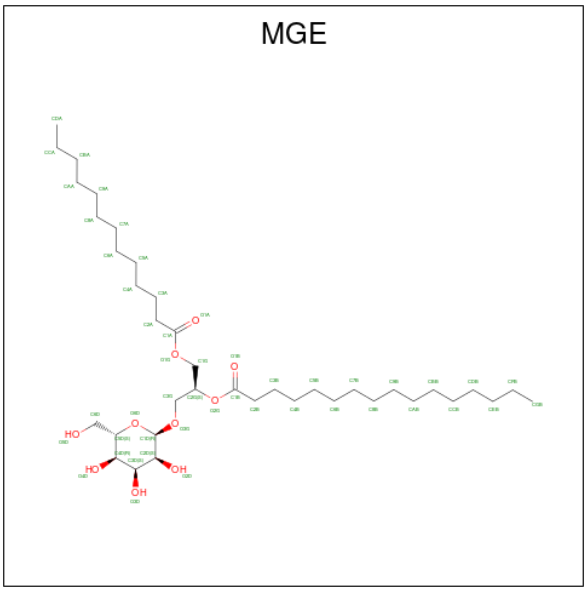


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
27	A	1	Total 49	C 38	O 10	P 1	0	0
27	a	1	Total 49	C 38	O 10	P 1	0	0

- Molecule 28 is BROMIDE ION (CCD ID: BR) (formula: Br).

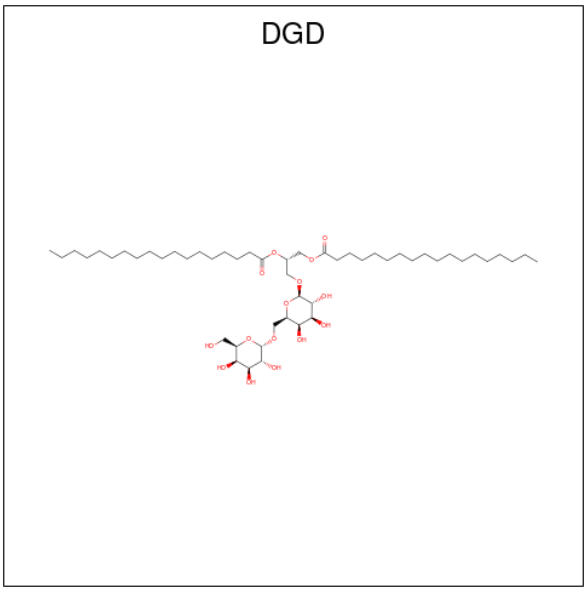
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
28	A	2	Total 2	Br 2	0	0
28	a	1	Total 1	Br 1	0	0
28	d	1	Total 1	Br 1	0	0

- Molecule 29 is (1S)-2-(ALPHA-L-ALLOPYRANOSYLOXY)-1-[(TRIDECANOYLOXY)METHYL]ETHYL PALMITATE (CCD ID: MGE) (formula: $C_{38}H_{72}O_{10}$).



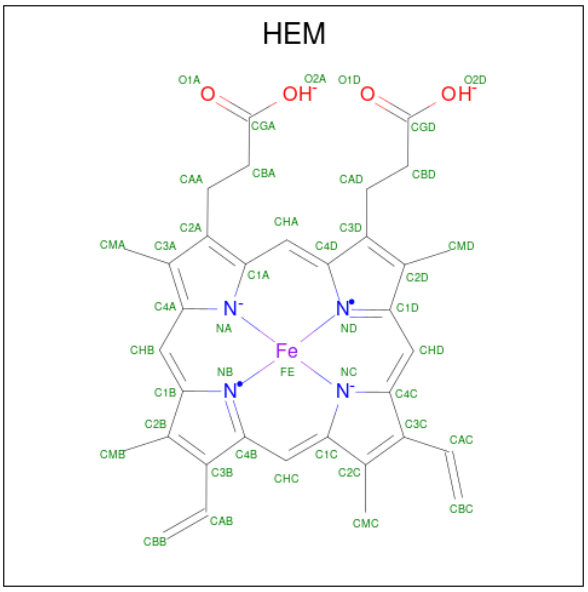
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
29	B	1	Total C O 48 38 10	0	0
29	D	1	Total C O 48 38 10	0	0
29	J	1	Total C O 48 38 10	0	0
29	L	1	Total C O 48 38 10	0	0
29	b	1	Total C O 48 38 10	0	0
29	d	1	Total C O 48 38 10	0	0
29	d	1	Total C O 48 38 10	0	0
29	d	1	Total C O 48 38 10	0	0

- Molecule 30 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: $C_{51}H_{96}O_{15}$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
30	C	1	Total C O 66 51 15	0	0
30	C	1	Total C O 66 51 15	0	0
30	C	1	Total C O 66 51 15	0	0
30	H	1	Total C O 66 51 15	0	0
30	c	1	Total C O 66 51 15	0	0
30	c	1	Total C O 66 51 15	0	0
30	c	1	Total C O 66 51 15	0	0
30	h	1	Total C O 66 51 15	0	0

- Molecule 31 is PROTOPORPHYRIN IX CONTAINING FE (CCD ID: HEM) (formula: $C_{34}H_{32}FeN_4O_4$).

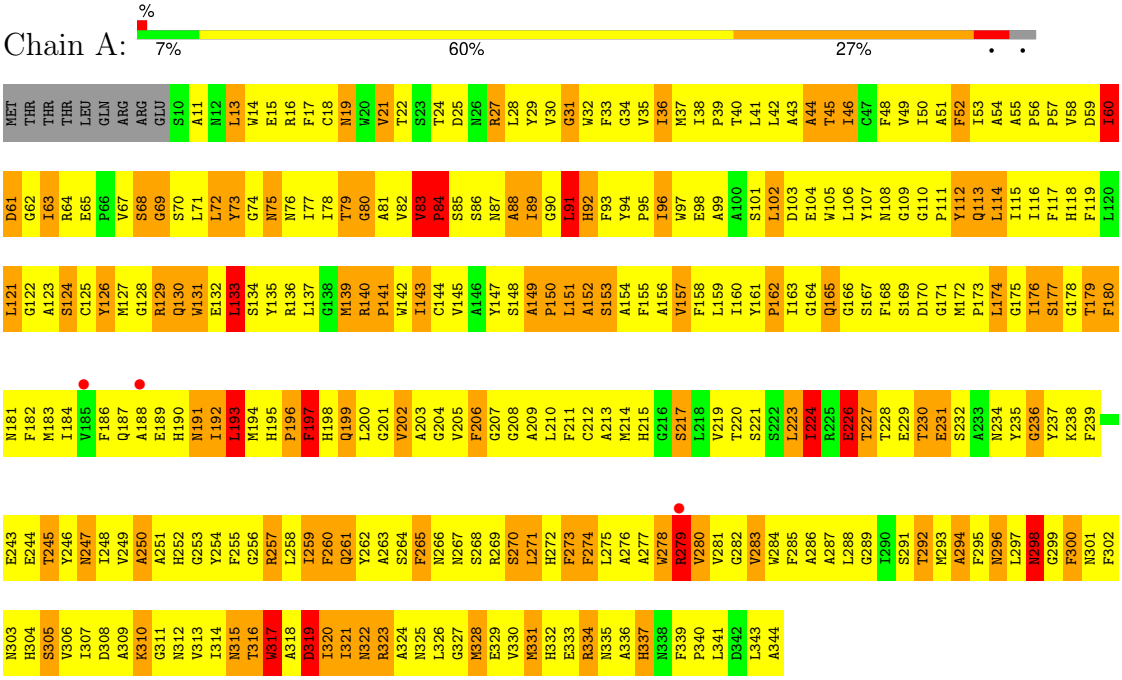


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
31	E	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
31	V	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
31	e	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
31	v	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		

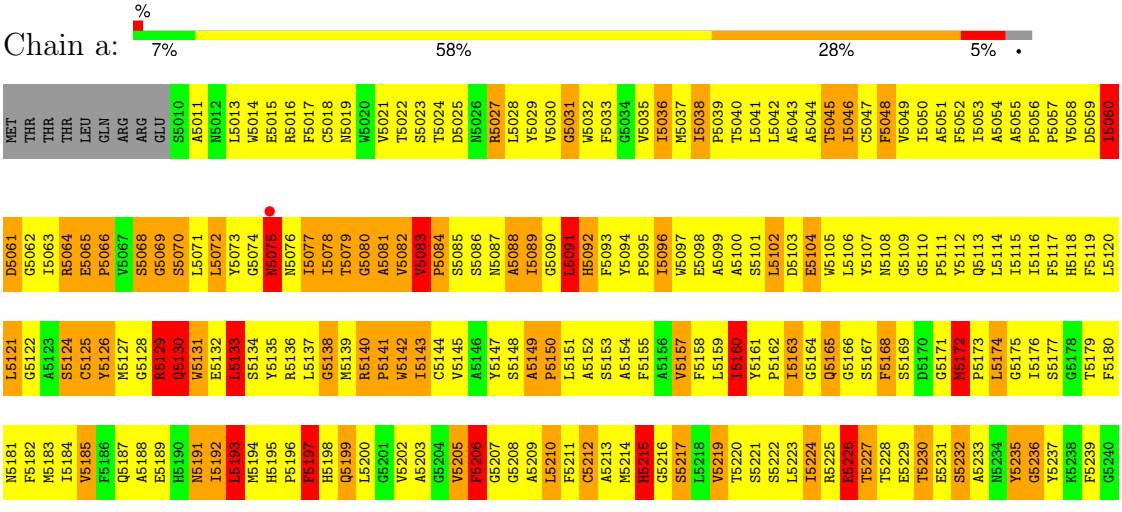
3 Residue-property plots (i)

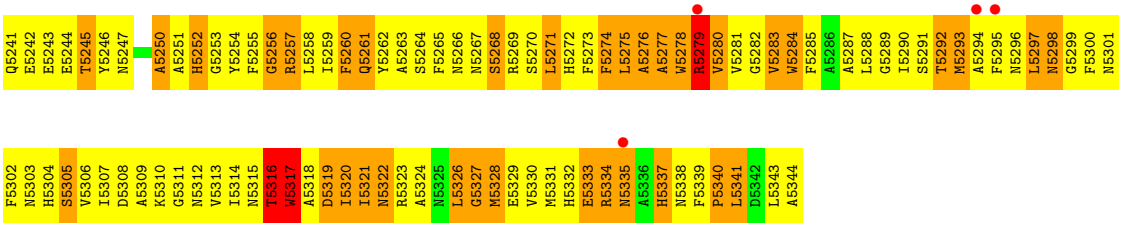
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: Photosystem Q(B) protein



• Molecule 1: Photosystem Q(B) protein

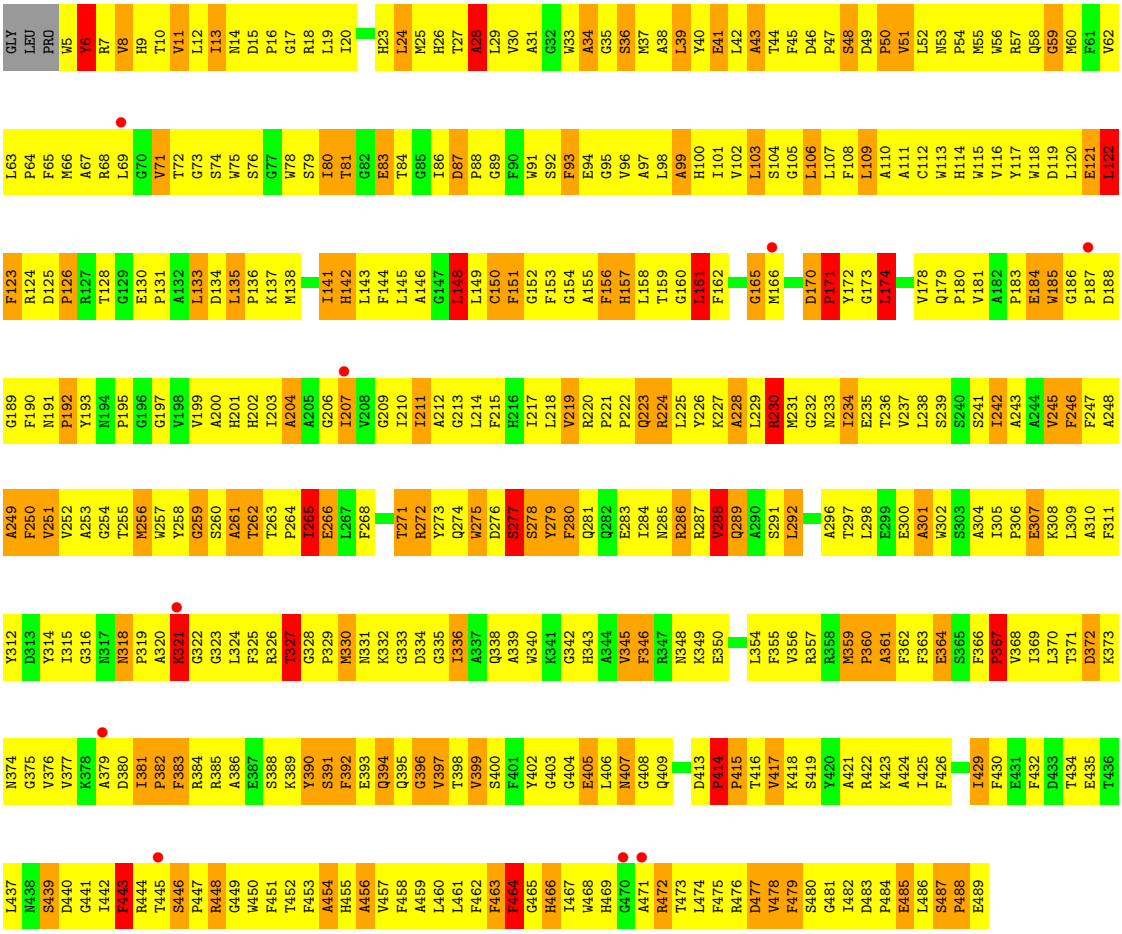




• Molecule 2: Photosystem II core light harvesting protein

Chain B:

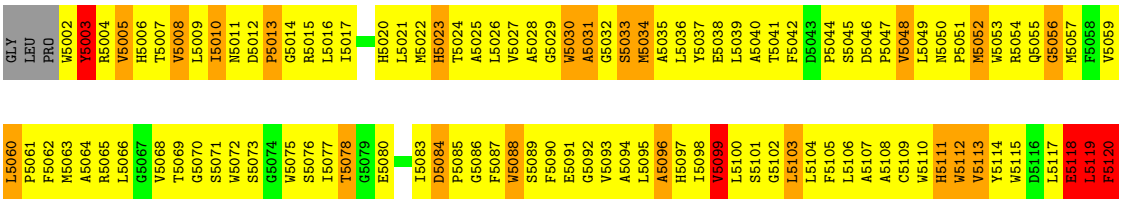


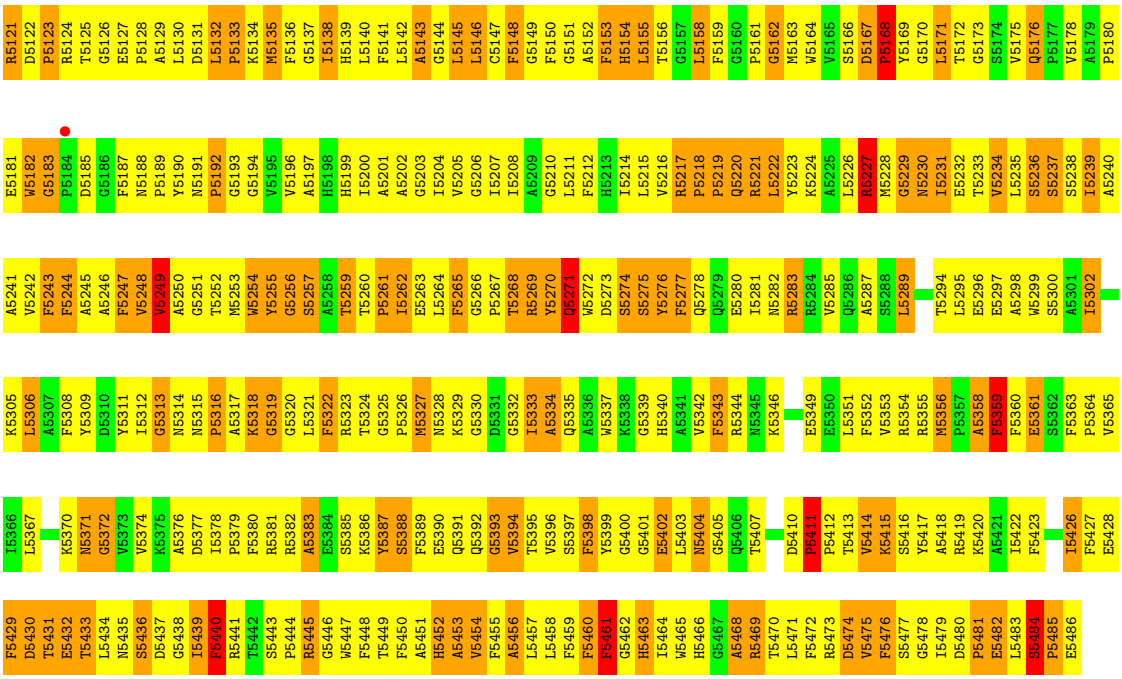


• Molecule 2: Photosystem II core light harvesting protein

Chain b:



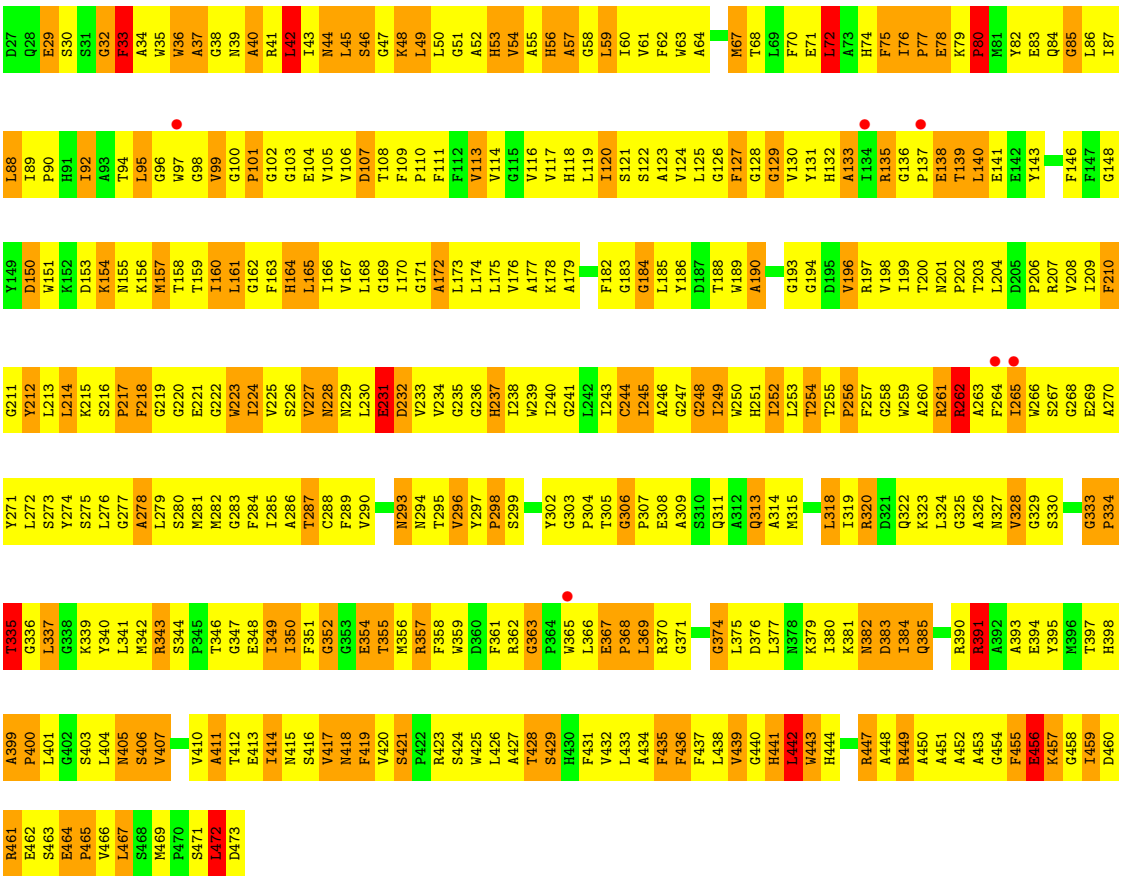




• Molecule 3: Photosystem II CP43 protein

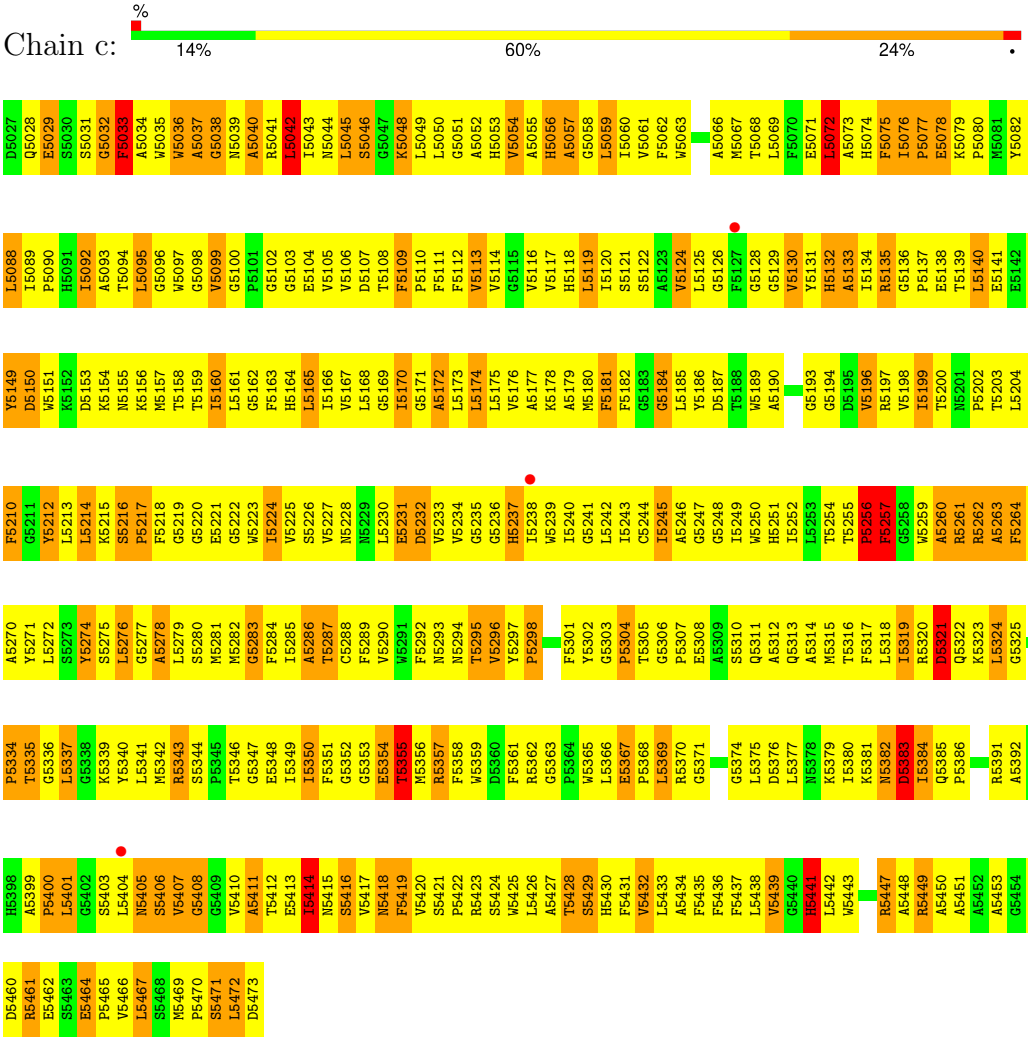
Chain C:





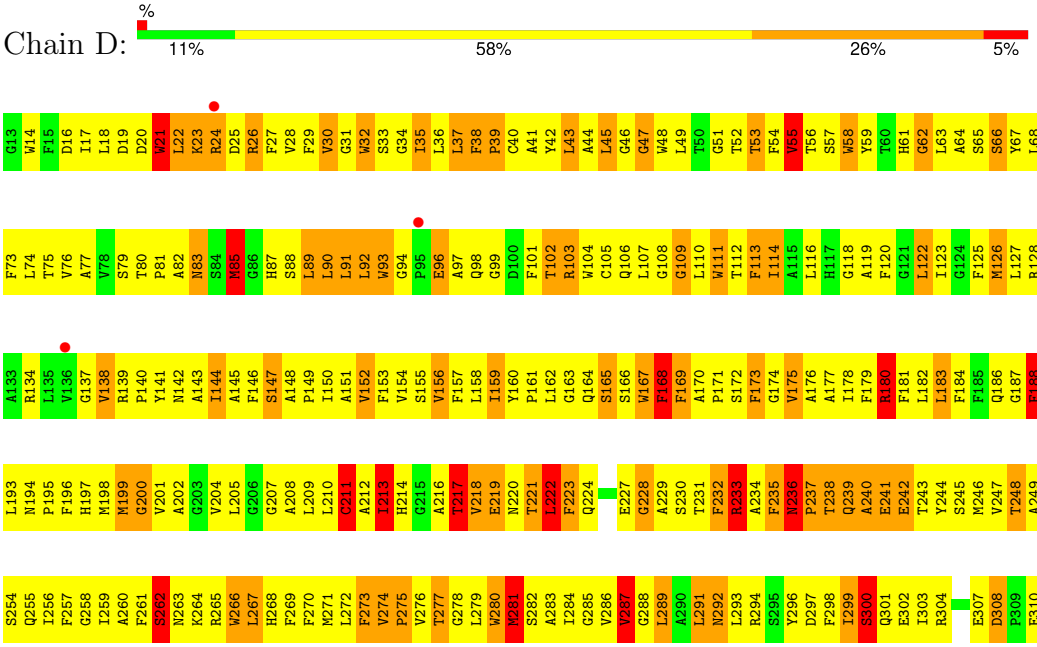
• Molecule 3: Photosystem II CP43 protein

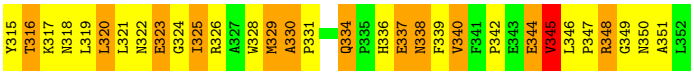
Chain c:



• Molecule 4: Photosystem II D2 protein

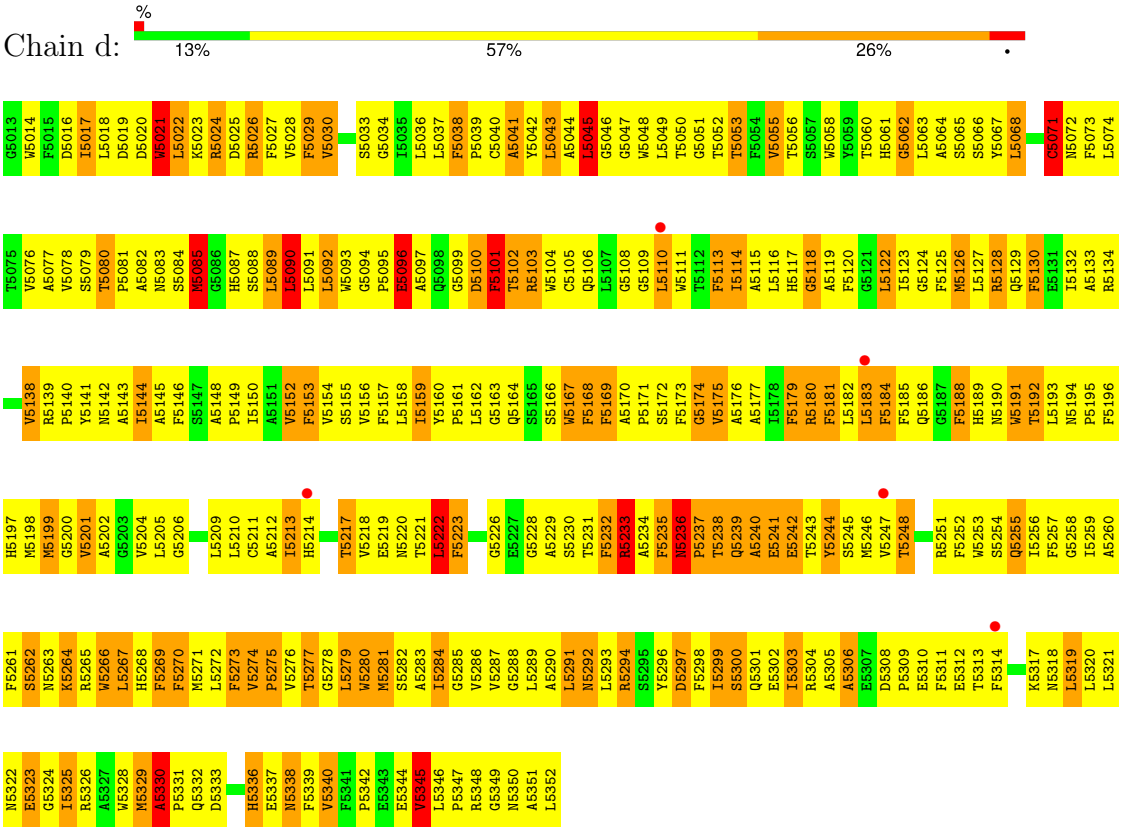
Chain D:





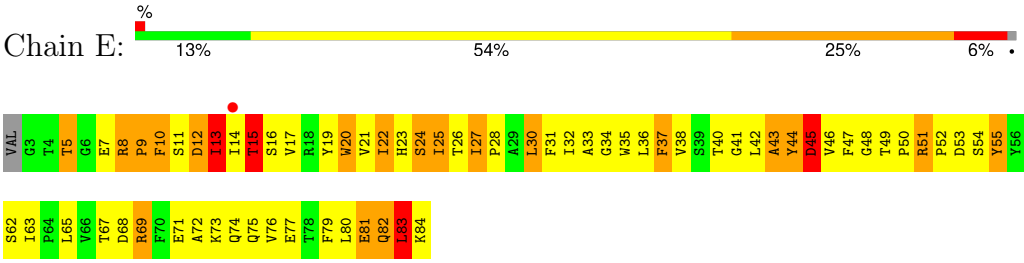
• Molecule 4: Photosystem II D2 protein

Chain d:



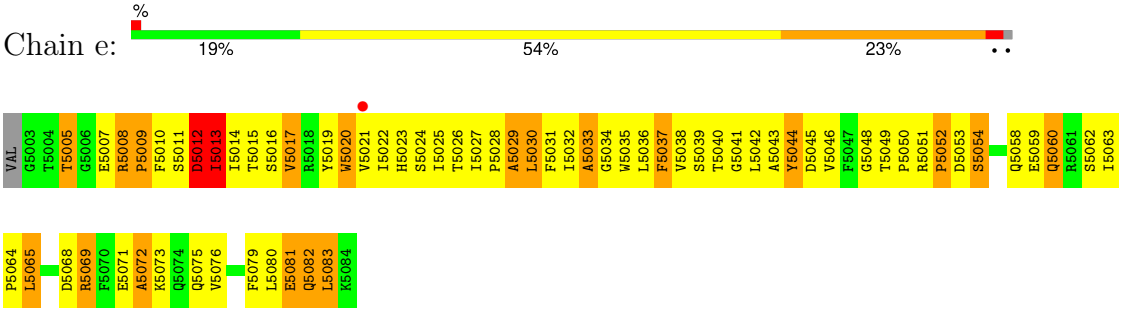
• Molecule 5: Cytochrome b559 subunit alpha

Chain E:



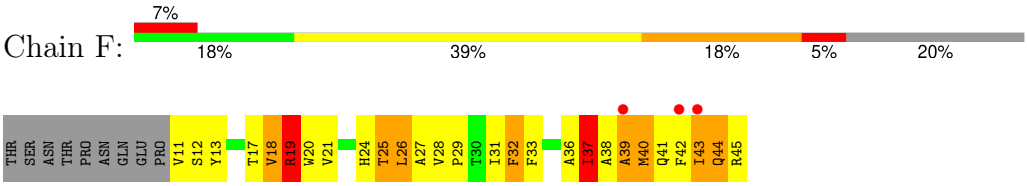
• Molecule 5: Cytochrome b559 subunit alpha

Chain e:



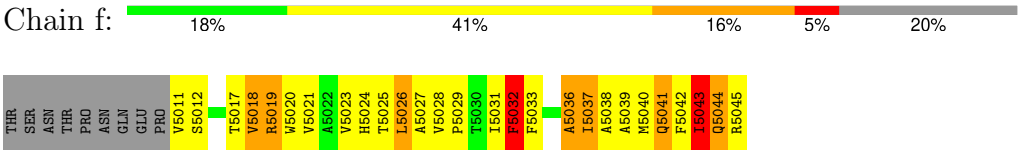
• Molecule 6: Cytochrome b559 subunit beta

Chain F:



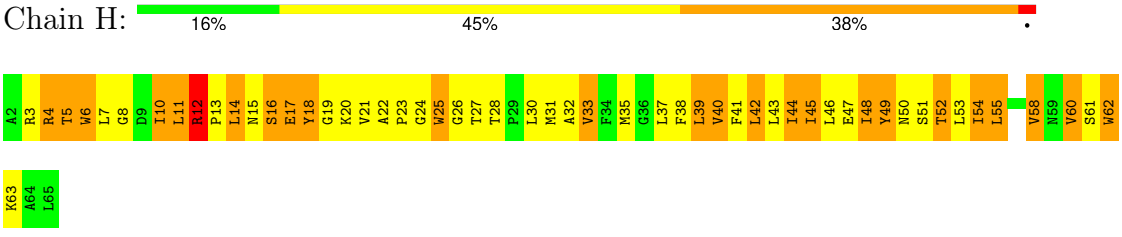
• Molecule 6: Cytochrome b559 subunit beta

Chain f:



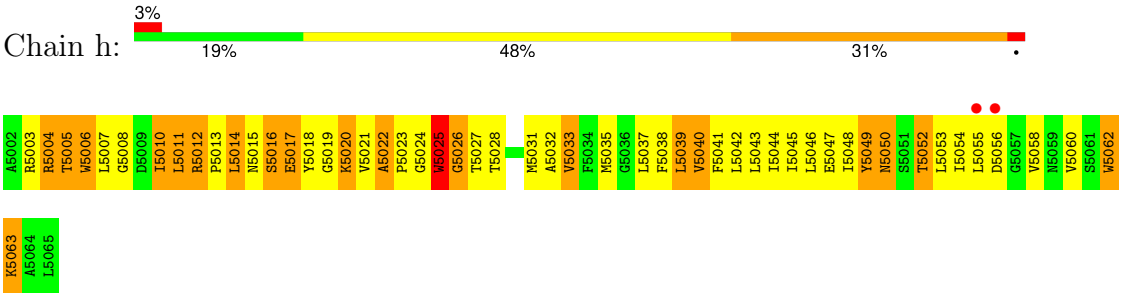
• Molecule 7: Photosystem II reaction center protein H

Chain H:



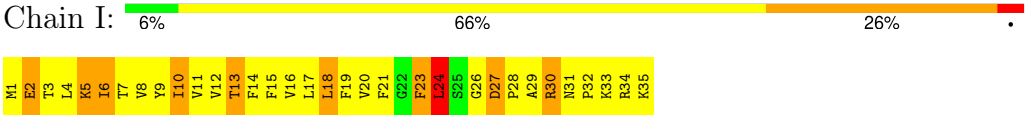
• Molecule 7: Photosystem II reaction center protein H

Chain h:



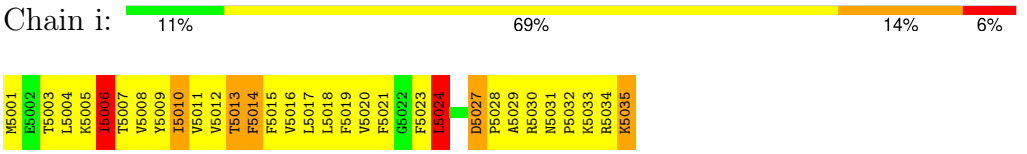
• Molecule 8: Photosystem II reaction center protein I

Chain I:



• Molecule 8: Photosystem II reaction center protein I

Chain i:



• Molecule 9: Photosystem II reaction center protein J

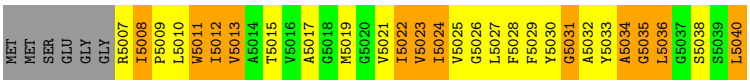
Chain J:



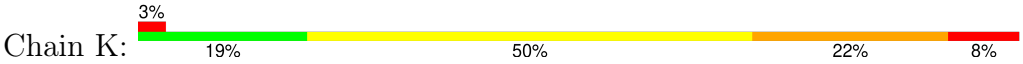


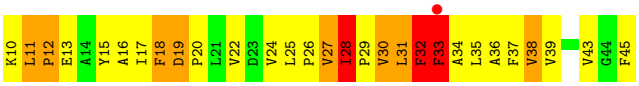
• Molecule 9: Photosystem II reaction center protein J



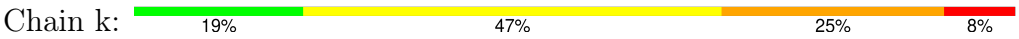


• Molecule 10: Photosystem II reaction center protein K





• Molecule 10: Photosystem II reaction center protein K



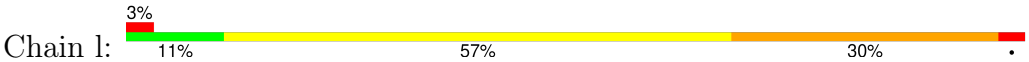


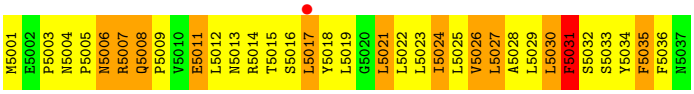
• Molecule 11: Photosystem II reaction center protein L





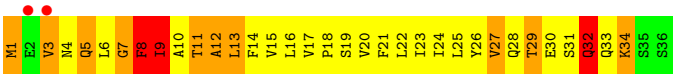
• Molecule 11: Photosystem II reaction center protein L



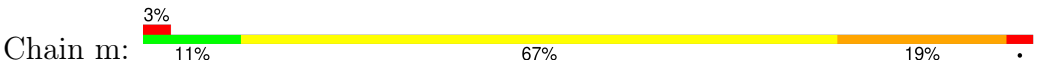


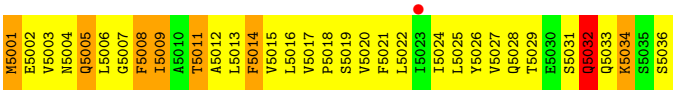
• Molecule 12: Photosystem II reaction center protein M





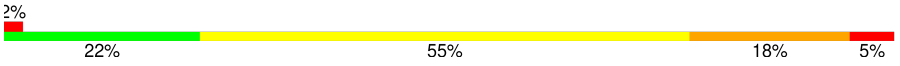
• Molecule 12: Photosystem II reaction center protein M

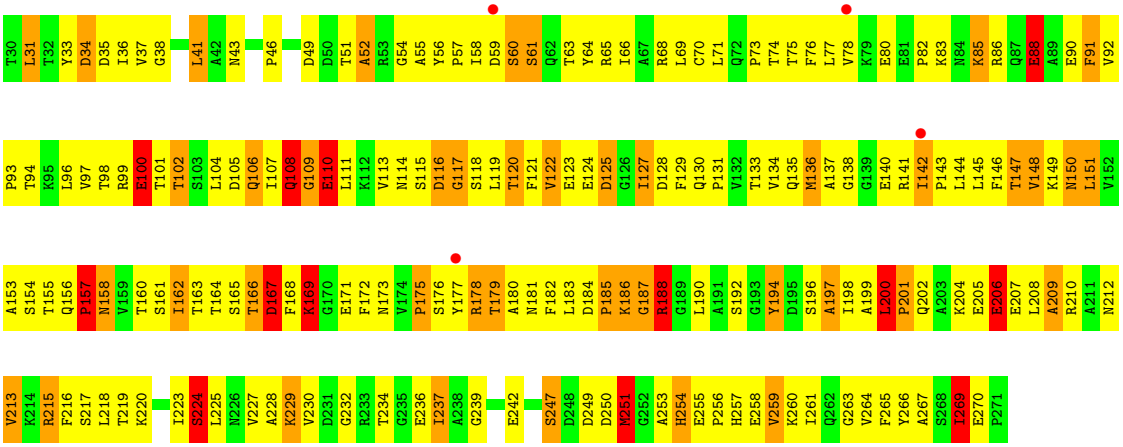




• Molecule 13: Photosystem II manganese-stabilizing polypeptide

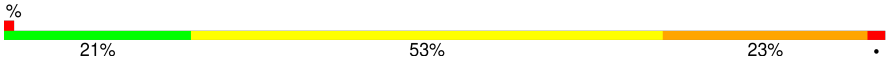
Chain O:

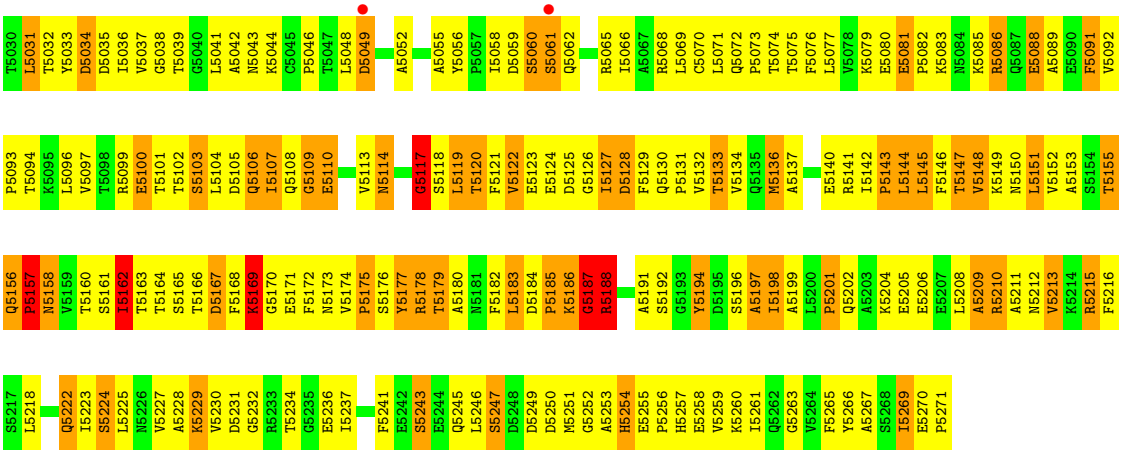




• Molecule 13: Photosystem II manganese-stabilizing polypeptide

Chain o:





• Molecule 14: Photosystem II reaction center protein T

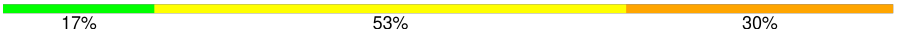
Chain T:

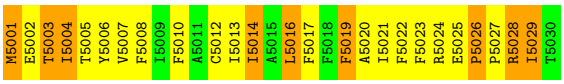




• Molecule 14: Photosystem II reaction center protein T

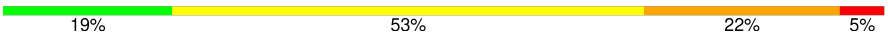
Chain t:

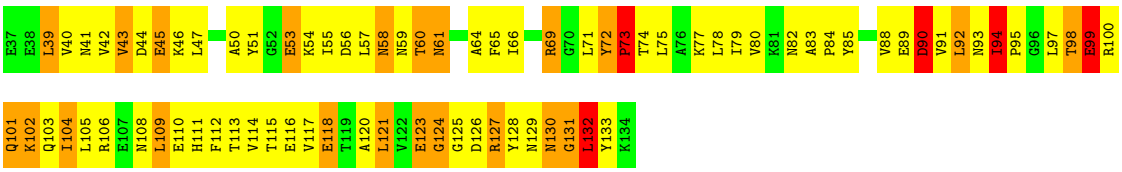




• Molecule 15: Photosystem II 12 kDa extrinsic protein

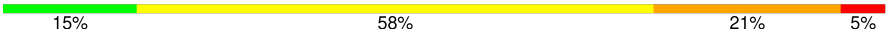
Chain U:

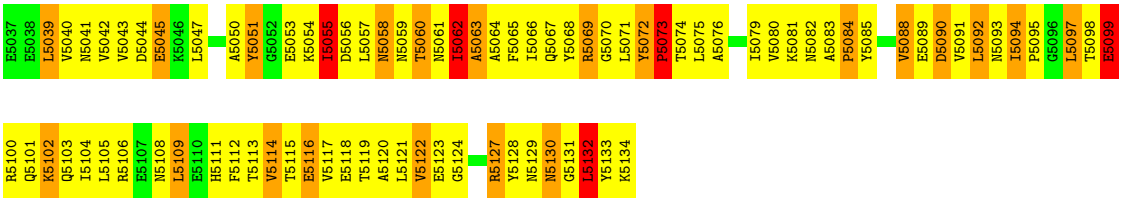




• Molecule 15: Photosystem II 12 kDa extrinsic protein

Chain u:

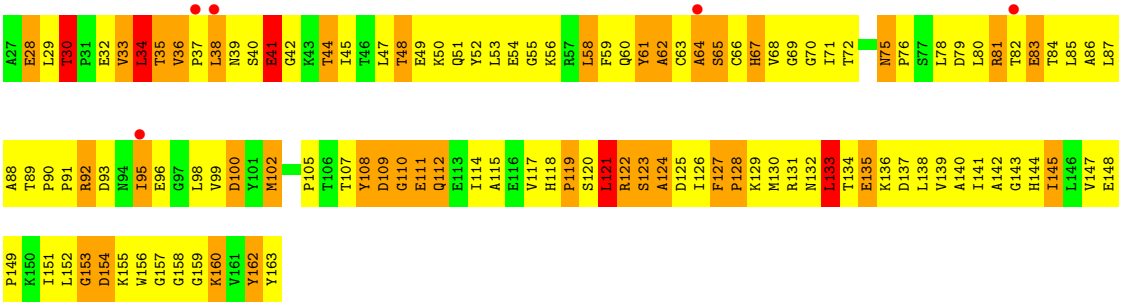




• Molecule 16: Cytochrome c-550

Chain V:

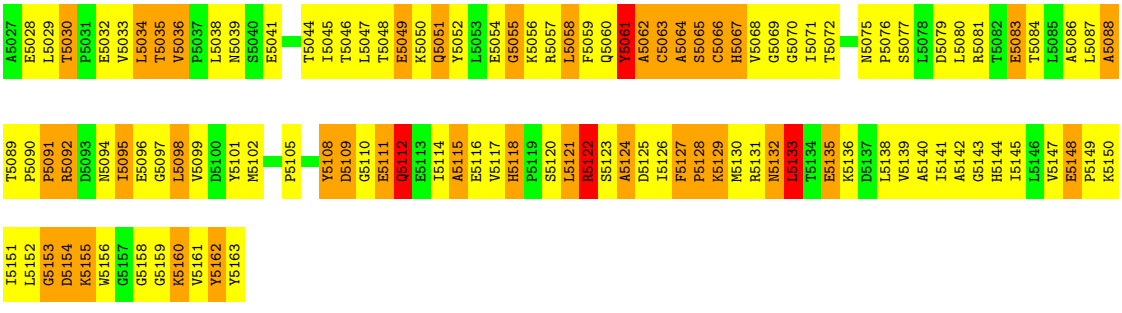




• Molecule 16: Cytochrome c-550

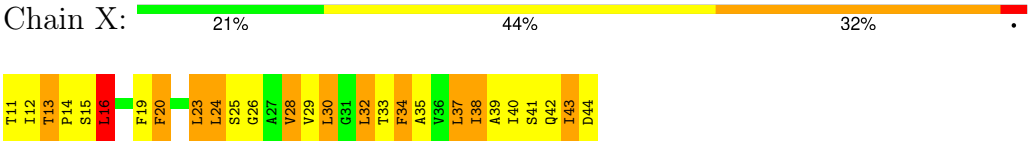
Chain v:





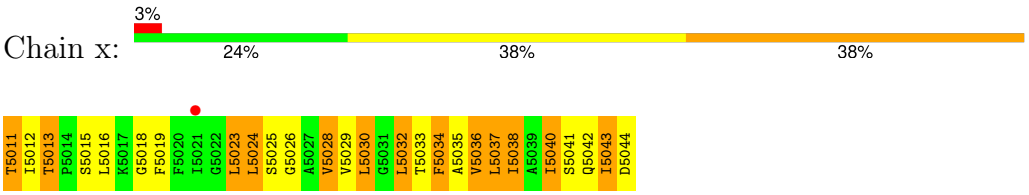
• Molecule 17: Photosystem II reaction center protein X

Chain X:



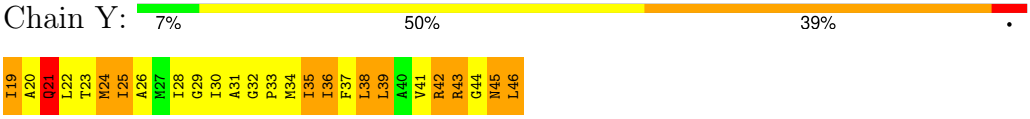
• Molecule 17: Photosystem II reaction center protein X

Chain x:



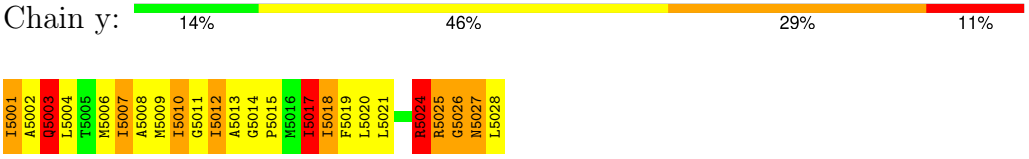
• Molecule 18: Photosystem II reaction center protein ycf12

Chain Y:



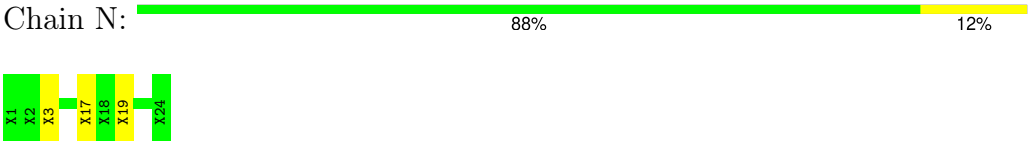
• Molecule 18: Photosystem II reaction center protein ycf12

Chain y:



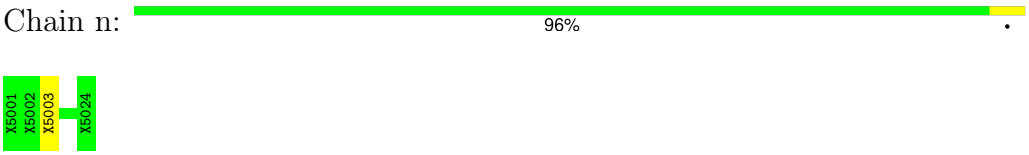
• Molecule 19: Photosystem II reaction center protein Y

Chain N:



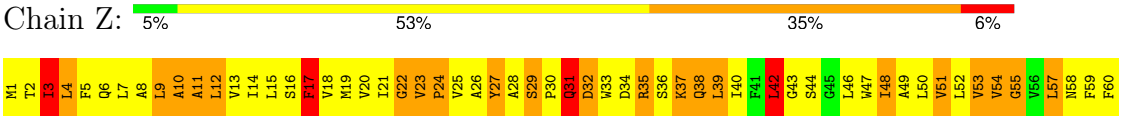
• Molecule 19: Photosystem II reaction center protein Y

Chain n:



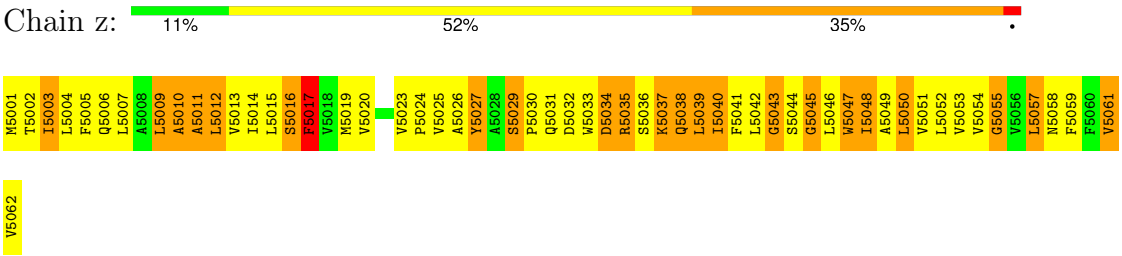
• Molecule 20: Photosystem II reaction center protein Z

Chain Z:





• Molecule 20: Photosystem II reaction center protein Z



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	130.59Å 226.39Å 307.51Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.70 – 3.70 34.70 – 3.70	Depositor EDS
% Data completeness (in resolution range)	85.8 (34.70-3.70) 85.7 (34.70-3.70)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	0.08	Depositor
$< I/\sigma(I) >$ [1]	3.23 (at 3.66Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.302 , 0.358 0.286 , 0.286	Depositor DCC
R_{free} test set	4216 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å^2)	135.2	Xtriage
Anisotropy	0.584	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.25 , 77.7	EDS
L-test for twinning[2]	$< \|L\| > = 0.51$, $< L^2 > = 0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.90	EDS
Total number of atoms	47988	wwPDB-VP
Average B, all atoms (Å^2)	141.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.81% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: FE2, OEC, LHG, BR, DGD, CLA, BCR, PQ9, HEM, MGE, PHO

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	A	0.65	0/2714	1.23	45/3699 (1.2%)
1	a	0.63	0/2714	1.24	43/3699 (1.2%)
2	B	0.64	2/3951 (0.1%)	1.24	40/5383 (0.7%)
2	b	0.66	1/3951 (0.0%)	1.25	58/5383 (1.1%)
3	C	0.60	0/3568	1.21	53/4858 (1.1%)
3	c	0.59	0/3568	1.15	33/4858 (0.7%)
4	D	0.61	0/2801	1.15	26/3818 (0.7%)
4	d	0.61	0/2801	1.21	34/3818 (0.9%)
5	E	0.55	0/685	1.19	9/933 (1.0%)
5	e	0.60	0/685	1.19	7/933 (0.8%)
6	F	0.69	0/291	1.34	7/397 (1.8%)
6	f	0.74	0/291	1.14	3/397 (0.8%)
7	H	0.63	1/520 (0.2%)	1.19	5/708 (0.7%)
7	h	0.64	0/520	1.26	9/708 (1.3%)
8	I	0.67	0/294	0.97	0/395
8	i	0.63	0/294	1.02	1/395 (0.3%)
9	J	0.57	0/255	1.14	3/346 (0.9%)
9	j	0.62	0/255	1.14	2/346 (0.6%)
10	K	0.76	0/287	1.34	4/394 (1.0%)
10	k	0.64	0/287	1.34	6/394 (1.5%)
11	L	0.60	0/311	1.25	6/422 (1.4%)
11	l	0.63	0/311	1.13	4/422 (0.9%)
12	M	0.73	0/287	1.10	3/388 (0.8%)
12	m	0.63	0/287	1.13	2/388 (0.5%)
13	O	0.62	0/1872	1.15	20/2539 (0.8%)
13	o	0.60	0/1872	1.09	9/2539 (0.4%)
14	T	0.70	0/266	1.28	3/359 (0.8%)
14	t	0.70	0/266	1.24	3/359 (0.8%)
15	U	0.60	0/794	1.13	7/1076 (0.7%)
15	u	0.60	0/794	1.21	9/1076 (0.8%)
16	V	0.65	0/1085	1.34	16/1473 (1.1%)
16	v	0.61	0/1085	1.31	14/1473 (1.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
17	X	0.64	0/249	1.25	3/337 (0.9%)
17	x	0.68	0/249	1.07	0/337
18	Y	0.63	0/209	1.29	3/279 (1.1%)
18	y	0.66	0/209	1.39	3/279 (1.1%)
20	Z	0.61	0/490	1.23	9/669 (1.3%)
20	z	0.66	0/490	1.25	6/669 (0.9%)
All	All	0.63	4/41858 (0.0%)	1.21	508/56946 (0.9%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	b	5453	ALA	CA-C	-10.56	1.45	1.52
2	B	456	ALA	CA-C	-6.95	1.48	1.52
2	B	454	ALA	CA-CB	-6.88	1.43	1.53
7	H	54	ILE	CA-CB	5.26	1.59	1.53

All (508) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	C	218	PHE	N-CA-C	14.16	122.34	108.75
2	B	232	GLY	N-CA-C	-13.18	99.00	114.69
2	b	5167	ASP	CA-C-N	12.99	136.07	119.84
2	b	5167	ASP	C-N-CA	12.99	136.07	119.84
2	B	466	HIS	N-CA-C	-12.56	97.06	112.38
16	V	108	TYR	N-CA-C	-12.33	95.24	110.41
2	b	5463	HIS	N-CA-C	-12.05	98.41	112.87
17	X	16	LEU	N-CA-C	-11.82	98.38	111.14
1	a	5230	THR	N-CA-C	-11.39	98.87	111.28
2	B	29	LEU	N-CA-C	-11.33	99.58	113.41
16	V	127	PHE	CA-C-N	10.91	133.47	119.84
16	V	127	PHE	C-N-CA	10.91	133.47	119.84
16	v	5155	LYS	N-CA-C	-10.81	99.89	112.87
16	v	5111	GLU	N-CA-C	10.81	124.27	110.33
4	D	167	TRP	N-CA-C	-10.44	99.71	111.82
16	V	75	ASN	CA-C-N	10.32	130.60	119.87
16	V	75	ASN	C-N-CA	10.32	130.60	119.87
3	C	318	LEU	N-CA-C	-10.27	98.87	111.40
7	H	16	SER	N-CA-C	10.07	121.84	111.07
16	V	155	LYS	N-CA-C	-9.97	100.90	112.87
3	c	5354	GLU	N-CA-C	-9.93	101.50	114.31
13	O	102	THR	N-CA-C	9.91	124.03	112.93
16	v	5062	ALA	N-CA-C	9.90	123.87	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	e	5041	GLY	N-CA-C	-9.82	100.86	115.00
1	A	276	ALA	N-CA-C	-9.73	101.54	113.41
18	y	5024	ARG	N-CA-C	-9.52	101.42	113.23
16	v	5049	GLU	N-CA-C	-9.48	100.82	111.82
9	j	5036	LEU	N-CA-C	-9.46	100.31	112.23
2	B	395	GLN	N-CA-C	-9.44	101.28	113.17
4	D	200	GLY	N-CA-C	-9.39	101.28	112.64
5	E	51	ARG	N-CA-C	-9.36	97.94	109.83
2	b	5229	GLY	N-CA-C	-9.26	102.71	114.37
1	a	5198	HIS	N-CA-C	-9.25	101.09	111.82
4	d	5045	LEU	N-CA-C	-9.20	99.98	111.75
1	A	196	PRO	N-CA-C	-9.13	104.05	114.92
18	Y	35	ILE	N-CA-C	-9.11	99.51	112.35
20	Z	54	VAL	N-CA-C	-9.05	101.23	113.00
10	K	32	PHE	N-CA-C	9.04	120.75	111.07
16	V	122	ARG	N-CA-C	-9.02	101.01	111.03
1	A	83	VAL	CA-C-N	9.01	131.10	119.84
1	A	83	VAL	C-N-CA	9.01	131.10	119.84
2	b	5469	ARG	N-CA-C	-8.99	101.12	112.90
16	v	5108	TYR	N-CA-C	-8.96	98.69	110.43
1	A	230	THR	N-CA-C	-8.89	101.53	111.14
3	c	5147	PHE	N-CA-C	-8.85	103.59	112.97
13	o	5061	SER	N-CA-C	-8.85	102.61	113.41
12	M	7	GLY	N-CA-C	-8.80	101.50	112.77
1	a	5133	LEU	N-CA-C	-8.76	103.10	113.88
7	h	5012	ARG	N-CA-C	-8.75	97.32	110.01
1	A	140	ARG	CA-C-N	8.69	128.34	119.56
1	A	140	ARG	C-N-CA	8.69	128.34	119.56
3	c	5385	GLN	CA-C-N	8.60	129.45	119.47
3	c	5385	GLN	C-N-CA	8.60	129.45	119.47
1	A	69	GLY	N-CA-C	-8.56	100.38	112.37
5	E	24	SER	N-CA-C	-8.56	102.74	113.02
1	a	5124	SER	N-CA-C	-8.45	101.29	111.69
1	A	315	ASN	N-CA-C	8.45	122.63	109.96
2	B	170	ASP	CA-C-N	8.43	130.38	119.84
2	B	170	ASP	C-N-CA	8.43	130.38	119.84
3	C	335	THR	N-CA-C	-8.38	103.06	113.28
2	b	5316	PRO	N-CA-C	-8.36	101.91	113.53
10	k	5018	PHE	N-CA-C	8.31	123.53	113.23
9	J	19	MET	N-CA-C	-8.29	103.69	113.88
3	C	391	ARG	N-CA-C	-8.27	102.22	111.07
4	D	217	THR	N-CA-C	-8.21	102.29	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	H	12	ARG	N-CA-C	-8.21	98.38	110.20
3	C	252	ILE	N-CA-C	-8.15	102.86	110.53
2	b	5461	PHE	N-CA-C	8.15	119.80	111.07
9	J	36	LEU	N-CA-C	-8.15	102.22	112.90
7	h	5040	VAL	N-CA-C	-8.14	102.88	110.53
4	d	5167	TRP	N-CA-C	-8.12	102.63	112.54
16	v	5127	PHE	CA-C-N	8.11	129.97	119.84
16	v	5127	PHE	C-N-CA	8.11	129.97	119.84
2	B	472	ARG	N-CA-C	-8.07	103.43	113.28
4	d	5199	MET	N-CA-C	-8.07	103.95	113.88
16	V	49	GLU	N-CA-C	-7.95	102.68	112.38
1	a	5316	THR	N-CA-C	-7.95	99.06	110.59
1	A	52	PHE	N-CA-C	-7.93	103.40	113.23
13	O	61	SER	N-CA-C	-7.91	103.85	113.97
12	m	5007	GLY	N-CA-C	-7.91	103.24	112.73
2	b	5482	GLU	N-CA-C	7.89	120.41	107.23
2	B	39	LEU	N-CA-C	-7.87	102.70	111.28
3	c	5261	ARG	N-CA-C	-7.87	101.66	111.11
1	a	5297	LEU	N-CA-C	-7.83	97.99	109.11
3	C	464	GLU	CA-C-N	7.81	129.60	119.84
3	C	464	GLU	C-N-CA	7.81	129.60	119.84
5	e	5037	PHE	N-CA-C	-7.81	102.76	111.82
3	C	278	ALA	N-CA-C	-7.80	101.18	111.24
4	d	5179	PHE	N-CA-C	-7.80	102.78	111.28
3	C	32	GLY	N-CA-C	-7.77	102.12	112.14
1	a	5160	ILE	N-CA-C	7.76	117.83	110.30
16	V	62	ALA	N-CA-C	7.75	121.99	112.23
5	E	67	THR	N-CA-C	7.74	119.41	110.97
1	a	5143	ILE	N-CA-C	-7.74	103.31	110.82
2	B	464	PHE	N-CA-C	7.73	119.34	111.07
1	A	296	ASN	N-CA-C	7.70	122.56	111.56
4	d	5284	ILE	N-CA-C	-7.67	103.21	110.42
4	D	287	VAL	N-CA-C	-7.61	102.86	110.62
3	c	5464	GLU	CA-C-N	7.58	129.32	119.84
3	c	5464	GLU	C-N-CA	7.58	129.32	119.84
20	Z	17	PHE	N-CA-C	-7.58	103.00	111.71
2	B	278	SER	N-CA-C	-7.56	102.23	113.72
3	C	442	LEU	N-CA-C	-7.45	102.86	110.97
3	C	261	ARG	N-CA-C	-7.44	101.95	111.02
1	A	124	SER	N-CA-C	-7.42	103.27	111.36
7	h	5016	SER	N-CA-C	7.41	119.36	111.28
5	e	5024	SER	N-CA-C	-7.41	103.98	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	E	41	GLY	N-CA-C	-7.40	104.34	115.00
16	V	100	ASP	N-CA-C	-7.40	101.99	111.02
16	v	5132	ASN	N-CA-C	7.39	120.03	111.02
1	a	5068	SER	N-CA-C	7.38	123.43	107.49
12	m	5032	GLN	N-CA-C	-7.36	103.40	112.38
3	C	374	GLY	N-CA-C	-7.36	101.24	111.76
16	v	5034	LEU	N-CA-C	-7.36	104.31	113.28
11	l	5011	GLU	N-CA-C	7.32	121.61	109.46
3	c	5031	SER	N-CA-C	-7.31	104.49	113.41
4	d	5066	SER	N-CA-C	7.30	119.73	110.24
2	b	5236	SER	N-CA-C	-7.28	104.02	113.12
6	F	44	GLN	N-CA-C	7.26	117.45	107.73
2	b	5275	SER	N-CA-C	-7.24	103.49	113.56
2	b	5249	VAL	N-CA-C	-7.22	103.26	110.62
2	b	5026	LEU	N-CA-C	-7.19	103.48	111.82
4	d	5200	GLY	N-CA-C	-7.16	104.19	112.50
13	o	5102	THR	N-CA-C	7.14	120.93	112.93
3	C	385	GLN	CA-C-N	7.11	128.73	119.84
3	C	385	GLN	C-N-CA	7.11	128.73	119.84
4	D	156	VAL	N-CA-C	7.09	118.22	111.91
10	K	33	PHE	N-CA-C	-7.09	103.60	111.82
3	c	5335	THR	N-CA-C	-7.05	104.65	113.18
7	H	40	VAL	N-CA-C	-7.05	103.91	110.53
4	D	32	TRP	N-CA-C	-7.00	103.58	111.07
1	A	202	VAL	N-CA-C	-7.00	103.51	110.30
6	F	27	ALA	N-CA-C	6.99	118.55	111.07
17	X	39	ALA	N-CA-C	-6.96	103.62	111.07
2	b	5111	HIS	N-CA-C	6.96	121.36	113.01
20	Z	10	ALA	N-CA-C	-6.93	103.81	113.37
2	B	114	HIS	N-CA-C	6.92	121.42	113.19
13	O	167	ASP	N-CA-C	6.88	117.35	108.34
15	U	66	ILE	N-CA-C	-6.88	102.91	113.16
1	a	5140	ARG	CA-C-N	6.87	126.50	119.56
1	a	5140	ARG	C-N-CA	6.87	126.50	119.56
2	b	5146	LEU	N-CA-C	-6.86	103.88	111.36
1	A	310	LYS	N-CA-C	-6.86	103.88	111.36
4	d	5118	GLY	N-CA-C	-6.86	104.26	113.24
2	b	5272	TRP	N-CA-C	-6.84	104.57	113.12
11	L	16	SER	N-CA-C	-6.84	103.83	111.28
14	T	24	ARG	N-CA-C	-6.83	100.32	110.23
1	a	5274	PHE	N-CA-C	-6.81	103.86	111.28
3	c	5036	TRP	N-CA-C	-6.81	102.94	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	193	LEU	N-CA-C	-6.80	104.80	113.23
11	L	35	PHE	N-CA-C	-6.80	103.64	112.68
18	y	5017	ILE	N-CA-C	-6.78	103.06	113.16
4	D	55	VAL	N-CA-C	6.78	118.81	108.71
1	a	5233	ALA	N-CA-C	-6.75	105.07	113.38
1	a	5082	VAL	N-CA-C	-6.74	98.02	107.80
1	a	5083	VAL	CA-C-N	6.73	128.25	119.84
1	a	5083	VAL	C-N-CA	6.73	128.25	119.84
3	C	133	ALA	N-CA-C	6.71	121.22	112.89
2	B	275	TRP	N-CA-C	-6.65	105.07	113.72
2	b	5378	ILE	CA-C-N	6.65	127.64	120.13
2	b	5378	ILE	C-N-CA	6.65	127.64	120.13
3	C	36	TRP	N-CA-C	-6.65	103.13	111.11
14	t	5028	ARG	N-CA-C	6.64	119.53	108.96
3	C	407	VAL	CB-CA-C	-6.62	104.55	111.23
2	B	381	ILE	CA-C-N	6.61	130.18	120.46
2	B	381	ILE	C-N-CA	6.61	130.18	120.46
14	t	5019	PHE	N-CA-C	6.61	119.31	111.71
11	L	19	LEU	N-CA-C	-6.60	104.88	113.12
4	D	38	PHE	N-CA-C	6.57	121.79	113.25
1	a	5141	PRO	N-CA-C	6.57	122.07	113.86
1	a	5317	TRP	N-CA-C	-6.57	104.05	111.14
1	a	5163	ILE	N-CA-C	-6.54	102.91	111.09
4	d	5241	GLU	N-CA-C	6.54	118.94	108.41
2	B	485	GLU	N-CA-C	6.54	118.10	107.32
2	b	5355	ARG	N-CA-C	6.54	118.96	110.53
2	b	5271	GLN	N-CA-C	-6.53	105.61	113.97
1	a	5235	TYR	N-CA-C	-6.52	105.24	113.72
2	B	272	ARG	N-CA-C	-6.49	103.48	111.33
2	b	5191	ASN	CA-C-N	6.49	127.95	119.84
2	b	5191	ASN	C-N-CA	6.49	127.95	119.84
15	U	69	ARG	N-CA-C	6.48	120.85	109.96
3	C	30	SER	N-CA-C	-6.48	102.71	112.04
2	B	228	ALA	N-CA-C	-6.47	102.90	111.24
1	A	298	ASN	N-CA-C	6.46	118.86	110.53
7	H	62	TRP	N-CA-C	-6.44	104.30	111.71
3	C	49	LEU	N-CA-C	-6.43	104.69	112.54
17	X	20	PHE	N-CA-C	-6.43	103.90	111.03
2	B	76	SER	N-CA-C	-6.41	104.15	112.23
4	d	5270	PHE	N-CA-C	-6.38	104.42	111.82
2	b	5392	GLN	N-CA-C	-6.38	105.13	113.17
2	B	327	THR	N-CA-C	6.37	124.36	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	148	LEU	N-CA-C	6.35	118.00	111.14
3	c	5032	GLY	N-CA-C	-6.35	103.48	112.37
16	V	44	THR	N-CA-C	6.34	119.06	109.23
3	C	44	ASN	N-CA-C	-6.34	104.25	112.68
2	b	5287	ALA	N-CA-C	-6.32	104.31	111.07
2	b	5302	ILE	CA-C-N	6.32	126.84	120.14
2	b	5302	ILE	C-N-CA	6.32	126.84	120.14
7	h	5052	THR	N-CA-C	-6.32	105.03	114.64
2	b	5023	HIS	N-CA-C	-6.32	100.94	111.37
14	T	25	GLU	CA-C-N	6.31	126.88	120.38
14	T	25	GLU	C-N-CA	6.31	126.88	120.38
13	O	166	THR	N-CA-C	-6.31	102.65	110.41
16	v	5061	TYR	N-CA-C	-6.30	104.34	111.14
3	c	5150	ASP	N-CA-C	-6.29	97.40	110.80
2	B	321	LYS	N-CA-C	6.29	120.81	113.20
1	a	5296	ASN	N-CA-C	6.28	120.31	111.52
2	b	5217	ARG	CA-C-N	6.26	126.83	120.38
2	b	5217	ARG	C-N-CA	6.26	126.83	120.38
1	A	68	SER	N-CA-C	6.26	119.39	107.75
2	b	5244	PHE	N-CA-C	-6.26	104.15	110.97
5	E	37	PHE	N-CA-C	-6.25	104.22	112.34
15	u	5051	TYR	N-CA-C	-6.25	101.30	110.42
1	A	294	ALA	N-CA-C	-6.24	105.77	113.19
2	b	5204	ILE	N-CA-C	-6.24	104.26	110.62
13	O	85	LYS	N-CA-C	6.24	120.75	111.96
1	a	5206	PHE	N-CA-C	-6.21	105.76	113.15
3	C	254	THR	N-CA-C	6.20	118.73	108.99
13	O	237	ILE	N-CA-C	6.20	115.65	106.85
4	D	93	TRP	N-CA-C	-6.19	105.59	113.02
9	J	27	LEU	N-CA-C	-6.19	104.61	111.36
2	B	456	ALA	O-C-N	6.17	126.26	120.71
1	a	5215	HIS	N-CA-C	-6.17	104.56	111.28
16	V	34	LEU	N-CA-C	-6.17	105.74	113.20
3	c	5283	GLY	N-CA-C	-6.16	106.70	114.16
11	L	11	GLU	N-CA-C	6.14	119.90	110.20
16	v	5055	GLY	N-CA-C	-6.13	105.22	112.64
20	Z	48	ILE	CB-CA-C	-6.12	104.02	112.04
2	B	242	ILE	N-CA-C	-6.12	103.93	110.36
3	c	5054	VAL	N-CA-C	-6.12	104.00	112.50
3	c	5278	ALA	N-CA-C	-6.12	103.23	112.04
4	D	199	MET	N-CA-C	-6.10	105.50	113.12
3	C	53	HIS	N-CA-C	-6.10	104.55	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	b	5325	GLY	CA-C-N	6.08	126.40	119.83
2	b	5325	GLY	C-N-CA	6.08	126.40	119.83
1	A	319	ASP	N-CA-C	-6.08	104.21	111.69
4	d	5085	MET	N-CA-C	6.08	117.70	111.14
10	K	18	PHE	N-CA-C	6.08	120.97	113.50
13	O	54	GLY	N-CA-C	-6.08	104.94	111.93
4	d	5223	PHE	N-CA-C	6.07	118.69	109.95
2	b	5484	SER	CA-C-N	-6.05	112.27	119.84
2	b	5484	SER	C-N-CA	-6.05	112.27	119.84
1	a	5284	TRP	N-CA-C	-6.05	104.31	111.03
2	B	277	SER	N-CA-C	-6.05	105.86	113.18
20	z	5043	GLY	N-CA-C	-6.04	108.03	114.67
3	C	352	GLY	N-CA-C	6.03	120.22	112.13
4	D	241	GLU	N-CA-C	6.03	118.55	108.96
15	u	5069	ARG	N-CA-C	6.03	119.91	110.32
15	u	5045	GLU	N-CA-C	-6.03	105.75	113.23
2	B	364	GLU	N-CA-C	-6.02	105.58	113.17
13	O	200	LEU	CA-C-N	6.02	127.36	119.84
13	O	200	LEU	C-N-CA	6.02	127.36	119.84
3	c	5037	ALA	N-CA-C	-6.01	106.29	113.21
1	A	197	PHE	N-CA-C	-6.00	103.92	112.13
1	A	250	ALA	N-CA-C	-6.00	104.81	111.71
13	o	5158	ASN	N-CA-C	6.00	117.24	107.23
3	C	164	HIS	N-CA-C	-5.99	105.23	112.54
5	e	5029	ALA	N-CA-C	-5.98	105.94	113.18
6	F	39	ALA	N-CA-C	-5.98	104.76	111.28
7	h	5050	ASN	N-CA-C	-5.98	106.08	113.19
4	d	5201	VAL	N-CA-C	-5.97	104.50	110.30
1	A	238	LYS	N-CA-C	-5.97	99.54	109.46
3	c	5038	GLY	N-CA-C	-5.97	105.57	112.50
4	D	233	ARG	N-CA-C	-5.96	98.11	110.80
4	D	334	GLN	CA-C-N	5.96	126.11	119.32
4	D	334	GLN	C-N-CA	5.96	126.11	119.32
13	O	217	SER	N-CA-C	5.96	119.76	110.17
1	A	320	ILE	N-CA-C	-5.94	104.53	110.30
7	h	5025	TRP	N-CA-C	-5.93	105.89	113.01
1	a	5312	ASN	N-CA-C	-5.93	102.53	110.24
4	d	5176	ALA	N-CA-C	-5.93	105.15	112.38
2	B	133	LEU	N-CA-C	5.92	118.09	108.26
1	a	5126	TYR	N-CA-C	-5.92	104.73	111.07
6	f	5032	PHE	N-CA-C	-5.92	104.22	112.45
1	a	5069	GLY	N-CA-C	-5.92	104.51	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	o	5103	SER	N-CA-C	5.92	119.36	109.95
2	b	5239	ILE	N-CA-C	-5.92	104.56	110.30
4	D	147	SER	N-CA-C	-5.91	104.75	111.07
5	E	5	THR	N-CA-C	5.91	117.89	107.61
2	b	5218	PRO	N-CA-C	5.91	117.91	110.70
2	B	382	PRO	N-CA-C	5.91	119.90	110.21
1	A	226	GLU	N-CA-C	5.91	121.27	112.94
1	A	331	MET	N-CA-C	5.89	118.48	111.71
1	A	317	TRP	N-CA-C	-5.89	103.83	111.02
3	C	421	SER	N-CA-C	5.89	116.37	109.60
3	C	54	VAL	N-CA-C	-5.87	105.64	112.98
4	d	5226	GLY	N-CA-C	-5.86	102.69	111.19
3	C	405	ASN	N-CA-C	-5.86	98.32	110.80
1	a	5193	LEU	N-CA-C	-5.85	105.63	112.89
2	B	142	HIS	N-CA-C	-5.85	103.88	111.02
4	D	31	GLY	N-CA-C	5.85	118.01	112.04
4	d	5288	GLY	N-CA-C	-5.85	105.28	112.77
5	e	5033	ALA	N-CA-C	-5.84	104.82	111.07
3	C	417	VAL	N-CA-C	-5.83	101.35	110.09
18	Y	42	ARG	N-CA-C	-5.81	106.24	113.38
3	c	5422	PRO	N-CA-C	-5.80	105.62	113.40
4	d	5330	ALA	N-CA-C	5.80	122.64	109.81
1	A	13	LEU	N-CA-C	5.79	119.16	111.75
3	c	5232	ASP	N-CA-C	-5.79	105.48	112.54
2	b	5453	ALA	O-C-N	5.78	127.11	120.58
11	l	5035	PHE	N-CA-C	-5.76	105.01	112.68
3	c	5321	ASP	N-CA-C	5.76	117.64	111.36
2	B	301	ALA	N-CA-C	5.75	117.24	110.97
15	u	5114	VAL	N-CA-C	5.73	115.91	108.35
4	D	126	MET	N-CA-C	-5.72	105.12	111.36
1	A	126	TYR	N-CA-C	-5.72	105.12	111.36
1	A	270	SER	N-CA-C	-5.71	106.28	113.20
2	B	262	THR	N-CA-C	-5.71	105.42	112.90
20	z	5029	SER	N-CA-C	5.71	117.26	110.07
1	a	5340	PRO	N-CA-C	5.70	124.45	114.75
13	O	188	ARG	N-CA-C	5.70	122.94	110.80
4	d	5038	PHE	N-CA-C	5.70	120.65	113.25
20	z	5039	LEU	N-CA-C	-5.70	106.03	112.87
1	a	5226	GLU	N-CA-C	5.69	121.50	113.02
13	o	5249	ASP	N-CA-C	-5.69	105.60	112.54
4	D	85	MET	N-CA-C	5.68	117.28	111.14
3	C	262	ARG	N-CA-C	-5.68	102.99	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	b	5415	LYS	N-CA-C	-5.68	105.00	111.07
5	E	15	THR	N-CA-C	-5.67	105.86	112.89
3	C	293	ASN	N-CA-C	5.67	118.70	110.42
6	F	42	PHE	CA-C-N	5.67	129.08	120.13
6	F	42	PHE	C-N-CA	5.67	129.08	120.13
2	b	5411	PRO	N-CA-C	5.66	117.61	110.70
16	v	5044	THR	N-CA-C	5.64	118.75	109.72
13	O	147	THR	N-CA-C	5.64	117.98	109.41
3	C	120	ILE	N-CA-C	-5.63	105.03	110.72
2	b	5372	GLY	N-CA-C	5.63	123.66	115.32
4	d	5174	GLY	N-CA-C	-5.63	101.39	110.18
4	d	5201	VAL	CB-CA-C	-5.63	104.77	111.81
4	D	223	PHE	N-CA-C	5.63	118.06	109.95
1	a	5219	VAL	N-CA-C	5.63	116.36	110.62
15	U	117	VAL	N-CA-C	-5.62	101.66	110.09
1	A	265	PHE	N-CA-C	5.62	118.70	109.76
2	b	5468	ALA	N-CA-C	-5.62	106.41	113.72
3	c	5050	LEU	N-CA-C	-5.61	104.80	111.03
7	h	5062	TRP	N-CA-C	-5.61	105.26	111.71
3	C	231	GLU	N-CA-C	-5.60	106.57	113.41
13	O	259	VAL	N-CA-C	5.59	116.05	107.77
20	Z	11	ALA	N-CA-C	-5.58	105.25	112.68
20	Z	39	LEU	N-CA-C	-5.58	105.57	112.38
2	B	383	PHE	N-CA-C	-5.58	105.28	111.36
15	U	45	GLU	N-CA-C	-5.58	106.31	113.23
3	C	354	GLU	N-CA-C	-5.58	107.02	113.88
11	l	5024	ILE	N-CA-C	5.57	116.23	110.82
3	C	449	ARG	N-CA-C	-5.57	106.49	113.28
3	C	363	GLY	CA-C-N	5.56	125.40	119.28
3	C	363	GLY	C-N-CA	5.56	125.40	119.28
4	d	5144	ILE	N-CA-C	-5.56	105.08	110.42
18	y	5003	GLN	N-CA-C	-5.55	106.72	112.93
2	b	5298	ALA	N-CA-C	5.55	117.13	111.14
3	C	232	ASP	N-CA-C	-5.54	105.63	112.38
1	a	5326	LEU	N-CA-C	-5.54	104.47	111.11
1	A	300	PHE	N-CA-C	5.53	118.04	110.24
4	d	5244	TYR	N-CA-C	5.53	117.78	107.99
15	u	5062	ILE	N-CA-C	5.53	120.83	109.34
4	D	262	SER	N-CA-C	-5.53	99.03	110.80
5	E	55	TYR	N-CA-C	-5.53	103.11	111.34
13	O	181	ASN	N-CA-C	5.52	120.02	113.28
2	B	41	GLU	N-CA-C	-5.52	104.29	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	o	5188	ARG	N-CA-C	5.52	122.55	110.80
13	O	108	GLN	N-CA-C	5.51	115.12	107.73
12	M	32	GLN	N-CA-C	-5.51	106.40	113.01
13	O	158	ASN	N-CA-C	5.51	116.43	107.23
1	a	5256	GLY	N-CA-C	-5.50	106.12	112.83
13	O	249	ASP	N-CA-C	-5.50	105.30	112.23
16	V	95	ILE	N-CA-C	5.49	116.13	110.36
1	a	5104	GLU	N-CA-C	-5.49	104.94	111.03
2	b	5222	LEU	N-CA-C	-5.49	106.64	113.55
3	C	150	ASP	N-CA-C	-5.48	99.12	110.80
2	b	5456	ALA	N-CA-C	-5.47	104.96	111.69
2	b	5239	ILE	CB-CA-C	-5.47	104.97	111.81
2	B	288	VAL	N-CA-C	-5.47	104.90	112.50
3	C	154	LYS	N-CA-C	5.47	117.24	111.28
15	u	5102	LYS	N-CA-C	-5.45	105.44	111.71
2	b	5361	GLU	N-CA-C	-5.45	106.30	113.17
3	C	129	GLY	N-CA-C	-5.44	105.90	112.49
3	C	218	PHE	CB-CA-C	-5.44	108.53	116.53
6	f	5036	ALA	N-CA-C	-5.43	105.27	111.14
2	B	186	GLY	N-CA-C	-5.43	101.27	112.34
13	O	110	GLU	N-CA-C	5.42	122.35	110.80
4	D	314	PHE	N-CA-C	-5.42	104.61	111.11
4	d	5184	PHE	N-CA-C	-5.42	105.02	111.03
3	C	248	GLY	N-CA-C	-5.42	105.94	112.49
3	C	455	PHE	N-CA-C	-5.42	105.41	112.23
2	b	5254	TRP	N-CA-C	5.41	117.17	111.28
2	b	5099	VAL	N-CA-C	-5.39	104.69	110.36
1	A	130	GLN	N-CA-C	-5.39	106.08	113.30
1	a	5125	CYS	N-CA-C	-5.39	104.81	111.33
3	C	218	PHE	CA-C-O	5.38	121.72	118.33
3	c	5421	SER	N-CA-C	5.38	115.79	109.60
15	U	102	LYS	N-CA-C	-5.38	105.53	111.71
4	D	213	ILE	N-CA-C	-5.38	104.72	110.36
20	Z	53	VAL	N-CA-C	-5.38	105.48	110.53
2	B	328	GLY	CA-C-N	5.37	125.63	119.83
2	B	328	GLY	C-N-CA	5.37	125.63	119.83
4	d	5122	LEU	N-CA-C	-5.37	106.23	112.89
4	d	5267	LEU	N-CA-C	-5.36	104.68	111.11
3	c	5386	PRO	N-CA-C	5.36	121.58	113.81
3	C	37	ALA	N-CA-C	-5.35	106.78	113.15
1	A	256	GLY	N-CA-C	-5.34	106.24	113.24
3	c	5441	HIS	N-CA-C	-5.34	105.36	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	d	5269	PHE	N-CA-C	-5.34	105.90	112.90
4	d	5294	ARG	N-CA-C	5.34	117.38	109.69
1	a	5320	ILE	N-CA-C	-5.34	105.12	110.30
13	o	5147	THR	N-CA-C	5.33	117.37	108.99
4	d	5297	ASP	N-CA-C	5.32	118.34	110.46
2	B	28	ALA	N-CA-C	-5.32	99.47	110.80
1	A	143	ILE	N-CA-C	-5.32	98.28	109.34
1	a	5250	ALA	N-CA-C	-5.31	105.66	111.82
10	k	5028	ILE	CA-C-N	5.31	125.40	119.87
10	k	5028	ILE	C-N-CA	5.31	125.40	119.87
2	B	36	SER	N-CA-C	-5.31	105.49	111.28
3	C	165	LEU	N-CA-C	-5.30	105.58	111.36
2	B	203	ILE	N-CA-C	-5.30	105.23	111.00
3	C	367	GLU	CA-C-N	-5.30	113.45	119.28
3	C	367	GLU	C-N-CA	-5.30	113.45	119.28
20	z	5011	ALA	N-CA-C	-5.27	106.91	113.55
1	A	19	ASN	N-CA-C	-5.27	106.91	113.55
15	U	94	ILE	CA-C-N	5.27	126.42	119.84
15	U	94	ILE	C-N-CA	5.27	126.42	119.84
1	a	5197	PHE	N-CA-C	-5.27	106.79	113.43
4	D	180	ARG	N-CA-C	-5.26	105.24	110.97
1	A	177	SER	N-CA-C	5.25	117.75	111.71
16	V	30	THR	N-CA-C	5.25	117.14	109.84
3	c	5286	ALA	N-CA-C	-5.25	104.56	111.96
1	A	141	PRO	N-CA-C	5.25	120.42	113.86
15	u	5055	ILE	N-CA-C	5.25	115.51	108.17
12	M	27	VAL	N-CA-C	5.24	115.87	110.36
1	A	149	ALA	CA-C-N	-5.24	113.29	119.84
1	A	149	ALA	C-N-CA	-5.24	113.29	119.84
14	t	5003	THR	N-CA-C	-5.24	106.58	113.12
10	K	28	ILE	N-CA-C	5.23	120.17	108.88
4	d	5264	LYS	N-CA-C	-5.22	106.60	112.87
3	C	72	LEU	N-CA-C	-5.22	105.71	111.71
2	b	5322	PHE	N-CA-C	5.22	119.15	112.26
6	F	42	PHE	N-CA-C	5.21	119.69	112.45
16	V	145	ILE	N-CA-C	5.20	116.67	111.00
2	b	5030	TRP	N-CA-C	-5.20	106.09	112.90
1	A	209	ALA	N-CA-C	-5.20	105.51	111.07
4	d	5114	ILE	N-CA-C	5.20	117.58	111.09
4	d	5126	MET	N-CA-C	-5.20	105.30	111.69
2	b	5034	MET	N-CA-C	-5.19	105.31	111.69
2	b	5112	TRP	N-CA-C	-5.19	104.56	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	123	ALA	N-CA-C	-5.18	105.75	111.71
20	z	5017	PHE	N-CA-C	-5.18	105.12	111.75
18	Y	21	GLN	N-CA-C	-5.18	106.99	113.15
7	h	5022	ALA	CA-C-N	5.17	125.98	119.98
7	h	5022	ALA	C-N-CA	5.17	125.98	119.98
16	V	71	ILE	N-CA-C	5.17	116.16	108.46
4	d	5255	GLN	N-CA-C	-5.17	107.65	114.31
3	c	5263	ALA	N-CA-C	-5.16	99.80	110.80
16	v	5115	ALA	N-CA-C	-5.16	107.01	113.72
5	e	5005	THR	N-CA-C	5.16	116.59	107.61
1	A	36	ILE	N-CA-C	-5.16	107.39	113.42
7	H	48	ILE	CB-CA-C	-5.15	105.45	111.94
2	b	5088	TRP	N-CA-C	5.15	116.97	109.71
1	a	5212	CYS	N-CA-C	-5.14	105.80	111.71
2	b	5255	TYR	N-CA-C	-5.13	102.18	110.14
2	b	5269	ARG	N-CA-C	-5.13	104.76	111.02
3	c	5449	ARG	N-CA-C	-5.13	107.05	113.15
13	o	5117	GLY	N-CA-C	-5.13	101.02	113.18
1	A	133	LEU	N-CA-C	-5.13	106.18	112.90
1	a	5276	ALA	N-CA-C	-5.12	104.73	111.96
10	k	5043	VAL	N-CA-C	-5.12	107.47	112.29
1	A	231	GLU	N-CA-C	-5.12	99.90	110.80
3	C	399	ALA	CA-C-N	5.11	126.23	119.84
3	C	399	ALA	C-N-CA	5.11	126.23	119.84
3	c	5181	PHE	N-CA-C	5.11	121.69	110.80
10	k	5039	VAL	N-CA-C	5.11	115.72	110.36
11	L	2	GLU	N-CA-C	-5.11	103.26	110.31
20	z	5045	GLY	N-CA-C	-5.10	101.10	113.18
13	O	125	ASP	N-CA-C	-5.10	103.96	110.53
10	k	5013	GLU	N-CA-C	5.10	121.65	110.80
5	E	57	ALA	N-CA-C	-5.09	103.76	110.33
20	Z	29	SER	N-CA-C	5.09	116.24	109.93
11	L	27	LEU	N-CA-C	-5.09	105.18	111.33
2	b	5431	THR	N-CA-C	-5.09	107.20	113.41
3	c	5319	ILE	N-CA-C	-5.09	105.36	110.30
6	F	37	ILE	N-CA-C	5.08	115.81	110.62
2	b	5167	ASP	N-CA-C	5.08	116.99	109.62
9	j	5026	GLY	N-CA-C	-5.08	106.35	112.49
15	u	5117	VAL	N-CA-C	-5.08	103.05	109.80
1	A	259	ILE	N-CA-C	-5.07	101.15	108.71
1	a	5036	ILE	N-CA-C	-5.07	107.79	111.90
13	O	88	GLU	N-CA-C	5.07	121.59	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	c	5133	ALA	N-CA-C	5.06	118.61	112.23
3	C	190	ALA	CA-C-N	5.06	125.09	119.32
3	C	190	ALA	C-N-CA	5.06	125.09	119.32
8	i	5006	ILE	N-CA-C	5.06	115.21	110.30
5	e	5054	SER	N-CA-C	5.06	118.48	111.55
15	u	5097	LEU	N-CA-C	5.05	117.55	110.23
2	b	5120	PHE	N-CA-C	5.05	117.90	111.69
1	a	5130	GLN	N-CA-C	-5.04	107.18	113.38
4	D	308	ASP	CA-C-N	5.04	126.14	119.84
4	D	308	ASP	C-N-CA	5.04	126.14	119.84
1	a	5149	ALA	N-CA-C	-5.04	106.44	113.45
11	l	5027	LEU	N-CA-C	-5.04	105.23	111.33
16	v	5098	LEU	N-CA-C	-5.04	106.23	112.38
13	o	5187	GLY	N-CA-C	5.04	125.11	113.18
20	Z	51	VAL	N-CA-C	-5.03	105.94	110.82
4	d	5029	PHE	N-CA-C	5.03	117.76	110.42
3	c	5068	THR	N-CA-C	-5.03	105.71	111.14
3	c	5072	LEU	N-CA-C	-5.02	106.00	111.82
6	f	5044	GLN	N-CA-C	5.01	114.95	107.88
2	B	265	ILE	N-CA-C	-5.01	106.18	110.74
4	D	236	ASN	N-CA-C	-5.01	98.74	109.81
3	c	5165	LEU	N-CA-C	-5.00	105.90	111.36
4	d	5017	ILE	N-CA-C	-5.00	106.19	110.74

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2630	0	2528	816	0
1	a	2630	0	2528	857	0
2	B	3816	0	3680	1011	0
2	b	3816	0	3680	1003	0
3	C	3455	0	3376	834	0
3	c	3455	0	3376	863	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	2706	0	2608	803	0
4	d	2706	0	2608	803	0
5	E	666	0	651	156	0
5	e	666	0	651	127	0
6	F	282	0	291	74	0
6	f	282	0	291	67	0
7	H	507	0	529	135	0
7	h	507	0	529	129	0
8	I	287	0	308	81	0
8	i	287	0	305	59	0
9	J	249	0	262	65	0
9	j	249	0	262	36	0
10	K	278	0	289	118	0
10	k	278	0	289	124	0
11	L	304	0	316	106	0
11	l	304	0	313	132	0
12	M	283	0	297	107	0
12	m	283	0	294	118	0
13	O	1841	0	1799	298	0
13	o	1841	0	1799	322	0
14	T	257	0	262	92	0
14	t	257	0	259	82	0
15	U	783	0	779	156	0
15	u	783	0	779	146	0
16	V	1064	0	1072	198	0
16	v	1064	0	1072	183	0
17	X	246	0	269	47	0
17	x	246	0	269	51	0
18	Y	208	0	237	59	0
18	y	208	0	237	51	0
19	N	121	0	26	2	0
19	n	121	0	26	1	0
20	Z	479	0	516	130	0
20	z	479	0	513	134	0
21	A	5	0	0	0	0
21	a	5	0	0	0	0
22	A	1	0	0	0	0
22	a	1	0	0	0	0
23	A	195	0	216	169	0
23	B	975	0	1079	783	0
23	C	845	0	935	531	0
23	D	195	0	216	120	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	H	65	0	72	57	0
23	a	195	0	216	161	0
23	b	1040	0	1151	789	0
23	c	845	0	935	542	0
23	d	195	0	216	123	0
24	A	128	0	148	115	0
24	a	64	0	74	33	0
24	d	64	0	74	75	0
25	A	45	0	64	6	0
25	D	45	0	64	30	0
25	a	45	0	64	3	0
25	d	45	0	62	27	0
26	A	40	0	48	26	0
26	B	120	0	141	101	0
26	C	40	0	47	26	0
26	D	40	0	48	62	0
26	H	40	0	47	54	0
26	K	80	0	94	81	0
26	T	40	0	47	33	0
26	Z	40	0	48	41	0
26	a	40	0	48	25	0
26	b	120	0	141	102	0
26	c	40	0	47	22	0
26	d	40	0	48	58	0
26	h	40	0	47	47	0
26	k	80	0	94	81	0
26	t	40	0	47	24	0
26	z	40	0	48	40	0
27	A	49	0	74	60	0
27	a	49	0	74	53	0
28	A	2	0	0	4	0
28	a	1	0	0	1	0
28	d	1	0	0	1	0
29	B	48	0	72	46	0
29	D	48	0	72	24	0
29	J	48	0	72	32	0
29	L	48	0	72	33	0
29	b	48	0	72	52	0
29	d	144	0	216	96	0
30	C	198	0	288	149	0
30	H	66	0	96	32	0
30	c	198	0	288	136	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
30	h	66	0	96	35	0
31	E	43	0	30	10	0
31	V	43	0	30	10	0
31	e	43	0	30	11	0
31	v	43	0	30	11	0
All	All	47988	0	48413	12551	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 130.

All (12551) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5300:PHE:CE2	3:c:5404:LEU:HD12	1.32	1.65
26:t:1046:BCR:H371	26:t:1046:BCR:C26	1.34	1.53
26:T:6046:BCR:H371	26:T:6046:BCR:C26	1.34	1.51
23:a:6006:CLA:H171	26:d:6050:BCR:C29	1.40	1.51
23:c:6032:CLA:H2A	23:c:6032:CLA:CED	1.41	1.50
23:B:1009:CLA:CMB	26:H:1049:BCR:H393	1.41	1.49
23:a:6003:CLA:H141	24:d:6038:PHO:C9	1.41	1.48
26:k:6051:BCR:H322	26:k:6052:BCR:C10	1.40	1.47
23:C:1032:CLA:H2A	23:C:1032:CLA:CED	1.41	1.47
23:A:1003:CLA:H141	24:A:1038:PHO:C9	1.41	1.47
10:K:28:ILE:CG2	10:K:29:PRO:HD3	1.42	1.46
23:B:1012:CLA:HED2	23:B:1012:CLA:CAA	1.44	1.46
23:b:6022:CLA:H72	23:b:6022:CLA:C14	1.45	1.45
23:B:1019:CLA:HED2	23:B:1019:CLA:CAA	1.46	1.45
26:K:1051:BCR:H322	26:K:1052:BCR:C10	1.42	1.45
23:A:1006:CLA:H171	26:D:1050:BCR:C29	1.48	1.44
23:b:6009:CLA:CMB	26:h:6049:BCR:H393	1.41	1.44
23:c:6031:CLA:CGD	23:c:6033:CLA:H101	1.48	1.43
3:C:63:TRP:CZ3	23:C:1027:CLA:HBC1	1.51	1.43
23:B:1011:CLA:HBB2	23:B:1013:CLA:C20	1.49	1.42
23:b:6012:CLA:HED2	23:b:6012:CLA:CAA	1.43	1.42
23:B:1022:CLA:C14	23:B:1022:CLA:H72	1.45	1.42
12:M:1:MET:HE2	12:M:1:MET:N	1.34	1.42
23:b:6019:CLA:HED2	23:b:6019:CLA:CAA	1.46	1.41
23:b:6011:CLA:HBB2	23:b:6013:CLA:C20	1.49	1.41
26:b:6047:BCR:H321	26:b:6047:BCR:C34	1.50	1.41
23:d:6005:CLA:CED	23:d:6005:CLA:H2A	1.48	1.41
23:C:1031:CLA:CGD	23:C:1033:CLA:H101	1.48	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:D:1005:CLA:H2A	23:D:1005:CLA:CED	1.48	1.40
26:B:1047:BCR:C34	26:B:1047:BCR:H321	1.50	1.39
23:b:6022:CLA:H52	23:b:6022:CLA:C9	1.51	1.38
3:c:5061:VAL:CG2	3:c:5125:LEU:HD11	1.53	1.38
11:l:5017:LEU:HD12	11:l:5018:TYR:N	1.39	1.38
24:A:1038:PHO:C19	24:A:1038:PHO:H141	1.52	1.37
23:c:6032:CLA:C2A	23:c:6032:CLA:HED3	1.53	1.37
23:b:6020:CLA:HMA1	23:b:6020:CLA:CBA	1.44	1.37
23:b:6022:CLA:HHD	23:b:6022:CLA:CBC	1.53	1.37
29:B:1060:MGE:H251	29:B:1060:MGE:CBB	1.55	1.36
1:a:5273:PHE:CE2	4:d:5219:GLU:HA	1.59	1.36
23:c:6034:CLA:C8	23:c:6034:CLA:H41	1.53	1.36
23:B:1010:CLA:H91	23:B:1010:CLA:C12	1.51	1.36
23:B:1012:CLA:HAA2	23:B:1012:CLA:CED	1.55	1.36
2:B:464:PHE:CZ	29:B:1060:MGE:H4B2	1.58	1.36
23:C:1032:CLA:C2A	23:C:1032:CLA:HED3	1.53	1.36
24:d:6038:PHO:C19	24:d:6038:PHO:H141	1.53	1.36
23:C:1034:CLA:C8	23:C:1034:CLA:H41	1.55	1.36
10:K:28:ILE:HD11	26:K:1051:BCR:C8	1.56	1.35
23:B:1014:CLA:C9	23:B:1014:CLA:H122	1.57	1.34
23:b:6019:CLA:CED	23:b:6019:CLA:H2A	1.56	1.34
23:B:1019:CLA:H2A	23:B:1019:CLA:CED	1.56	1.33
23:b:6014:CLA:H122	23:b:6014:CLA:C9	1.57	1.33
23:b:6016:CLA:H52	23:b:6017:CLA:C10	1.56	1.33
23:b:6012:CLA:HAA2	23:b:6012:CLA:CED	1.55	1.33
26:d:6050:BCR:H371	26:d:6050:BCR:C39	1.58	1.33
26:k:6051:BCR:H371	26:k:6051:BCR:C39	1.59	1.33
23:B:1016:CLA:H52	23:H:1017:CLA:C10	1.56	1.33
26:B:1045:BCR:H371	26:B:1045:BCR:C40	1.59	1.33
26:K:1051:BCR:H371	26:K:1051:BCR:C40	1.59	1.33
26:D:1050:BCR:HC8	26:D:1050:BCR:C33	1.52	1.32
23:b:6014:CLA:HMA1	23:b:6014:CLA:CBA	1.53	1.32
26:d:6050:BCR:H371	26:d:6050:BCR:C40	1.59	1.32
23:B:1022:CLA:HHD	23:B:1022:CLA:CBC	1.53	1.32
26:K:1051:BCR:H371	26:K:1051:BCR:C39	1.59	1.32
23:c:6029:CLA:H192	23:c:6029:CLA:C15	1.51	1.32
23:C:1028:CLA:H121	23:C:1028:CLA:C17	1.57	1.32
26:b:6045:BCR:H371	26:b:6045:BCR:C40	1.59	1.32
29:B:1060:MGE:H212	29:B:1060:MGE:CFB	1.50	1.31
26:D:1050:BCR:H371	26:D:1050:BCR:C39	1.58	1.31
26:T:6046:BCR:H371	26:T:6046:BCR:C38	1.60	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:k:6051:BCR:H322	26:k:6052:BCR:C11	1.58	1.31
26:B:1045:BCR:H371	26:B:1045:BCR:C39	1.59	1.31
10:K:28:ILE:HG22	10:K:29:PRO:CD	1.59	1.31
23:c:6033:CLA:H18	23:c:6033:CLA:C14	1.60	1.31
26:b:6045:BCR:H371	26:b:6045:BCR:C39	1.59	1.31
23:C:1033:CLA:C14	23:C:1033:CLA:H18	1.60	1.31
26:a:6044:BCR:H371	26:a:6044:BCR:C40	1.59	1.31
23:b:6010:CLA:H91	23:b:6010:CLA:C12	1.51	1.31
26:d:6050:BCR:HC8	26:d:6050:BCR:C33	1.52	1.31
26:A:1044:BCR:H371	26:A:1044:BCR:C39	1.60	1.30
23:B:1020:CLA:H91	23:B:1020:CLA:C12	1.59	1.30
1:A:72:LEU:O	1:A:73:TYR:CD2	1.85	1.30
26:A:1044:BCR:H371	26:A:1044:BCR:C40	1.59	1.30
23:B:1012:CLA:C9	23:B:1012:CLA:H121	1.58	1.30
3:c:5058:GLY:CA	3:c:5125:LEU:HD13	1.60	1.30
26:k:6051:BCR:H371	26:k:6051:BCR:C40	1.59	1.30
23:B:1020:CLA:HMA1	23:B:1020:CLA:CBA	1.44	1.30
26:D:1050:BCR:H371	26:D:1050:BCR:C40	1.59	1.30
3:c:5058:GLY:HA2	3:c:5125:LEU:CD1	1.58	1.30
1:A:72:LEU:C	1:A:73:TYR:HD2	1.37	1.29
26:C:1054:BCR:C38	26:C:1054:BCR:H23C	1.58	1.29
12:M:9:ILE:HG21	12:m:5008:PHE:CZ	1.64	1.29
23:B:1020:CLA:HBA1	23:B:1020:CLA:CMA	1.57	1.29
23:B:1014:CLA:HMA1	23:B:1014:CLA:CBA	1.53	1.29
26:d:6050:BCR:C37	29:d:6059:MGE:H4A2	1.62	1.29
23:C:1033:CLA:H192	23:C:1033:CLA:C15	1.60	1.29
26:a:6044:BCR:H371	26:a:6044:BCR:C30	1.63	1.29
26:a:6044:BCR:H371	26:a:6044:BCR:C39	1.60	1.29
23:c:6028:CLA:C17	23:c:6028:CLA:H121	1.57	1.29
26:t:1046:BCR:H371	26:t:1046:BCR:C38	1.62	1.29
12:M:9:ILE:HG13	12:m:5009:ILE:CG1	1.61	1.28
3:c:5063:TRP:CZ3	23:c:6027:CLA:HBC1	1.67	1.28
1:a:5219:VAL:CG1	4:d:5268:HIS:HB3	1.62	1.28
23:c:6029:CLA:H152	23:c:6029:CLA:C19	1.57	1.28
26:c:6054:BCR:C38	26:c:6054:BCR:H23C	1.58	1.28
1:a:5219:VAL:HG21	4:d:5268:HIS:CD2	1.68	1.28
24:d:6038:PHO:H193	24:d:6038:PHO:C14	1.64	1.28
26:D:1050:BCR:C37	29:J:1059:MGE:H4A2	1.62	1.28
23:B:1014:CLA:C16	23:B:1014:CLA:H112	1.63	1.27
1:A:72:LEU:C	1:A:73:TYR:CD2	2.12	1.27
23:b:6020:CLA:HBA1	23:b:6020:CLA:CMA	1.57	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:b:6060:MGE:H251	29:b:6060:MGE:CBB	1.52	1.27
23:B:1022:CLA:H92	23:B:1022:CLA:C5	1.62	1.27
26:B:1045:BCR:H371	26:B:1045:BCR:C30	1.65	1.27
23:C:1029:CLA:H192	23:C:1029:CLA:C15	1.51	1.27
26:A:1044:BCR:H371	26:A:1044:BCR:C30	1.63	1.26
26:a:6044:BCR:C37	26:a:6044:BCR:H392	1.64	1.26
26:k:6051:BCR:H371	26:k:6051:BCR:C30	1.64	1.26
23:B:1010:CLA:H122	23:B:1010:CLA:C9	1.49	1.26
26:b:6045:BCR:H371	26:b:6045:BCR:C30	1.65	1.26
24:A:1038:PHO:H193	24:A:1038:PHO:C14	1.64	1.26
14:T:1:MET:HE2	14:T:1:MET:N	1.50	1.26
29:b:6060:MGE:H212	29:b:6060:MGE:CFB	1.53	1.26
26:A:1044:BCR:C37	26:A:1044:BCR:H403	1.64	1.26
26:A:1044:BCR:C37	26:A:1044:BCR:H392	1.64	1.26
26:b:6045:BCR:C37	26:b:6045:BCR:H392	1.66	1.26
26:d:6050:BCR:C37	26:d:6050:BCR:H392	1.65	1.26
30:c:6056:DGD:HD61	30:c:6056:DGD:C3E	1.62	1.25
26:k:6051:BCR:C37	26:k:6051:BCR:H403	1.66	1.25
23:B:1022:CLA:H52	23:B:1022:CLA:C9	1.51	1.25
26:K:1051:BCR:H392	26:K:1051:BCR:C37	1.65	1.25
23:a:6006:CLA:C17	26:d:6050:BCR:H291	1.66	1.25
26:K:1051:BCR:H322	26:K:1052:BCR:C11	1.65	1.25
26:a:6044:BCR:C37	26:a:6044:BCR:H403	1.64	1.25
23:b:6010:CLA:OBD	23:b:6010:CLA:HED3	1.36	1.25
23:c:6034:CLA:H41	23:c:6034:CLA:C7	1.53	1.25
26:D:1050:BCR:C37	26:D:1050:BCR:H403	1.65	1.25
26:K:1051:BCR:H371	26:K:1051:BCR:C30	1.64	1.25
10:K:32:PHE:CE1	26:K:1052:BCR:H24C	1.72	1.25
26:d:6050:BCR:H373	29:d:6059:MGE:C4A	1.66	1.25
23:a:6006:CLA:CMB	24:a:6039:PHO:H161	1.66	1.24
26:B:1045:BCR:C37	26:B:1045:BCR:H392	1.66	1.24
26:D:1050:BCR:H371	26:D:1050:BCR:C30	1.66	1.24
26:D:1050:BCR:C37	26:D:1050:BCR:H392	1.65	1.24
26:D:1050:BCR:H373	29:J:1059:MGE:C4A	1.66	1.24
23:b:6012:CLA:H121	23:b:6012:CLA:C9	1.59	1.24
26:d:6050:BCR:C37	26:d:6050:BCR:H403	1.65	1.24
2:B:464:PHE:CZ	29:B:1060:MGE:C4B	2.21	1.24
26:B:1045:BCR:C37	26:B:1045:BCR:H403	1.66	1.24
26:B:1048:BCR:H23C	26:B:1048:BCR:C38	1.63	1.24
26:K:1051:BCR:C37	26:K:1051:BCR:H403	1.66	1.24
23:b:6022:CLA:H92	23:b:6022:CLA:C5	1.62	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k:5034:ALA:HB1	26:k:6051:BCR:C19	1.65	1.24
26:k:6051:BCR:C37	26:k:6051:BCR:H392	1.65	1.24
26:b:6045:BCR:C37	26:b:6045:BCR:H403	1.66	1.24
3:c:5406:SER:O	3:c:5407:VAL:HG23	1.36	1.24
23:B:1010:CLA:HED3	23:B:1010:CLA:OBD	1.36	1.23
23:C:1029:CLA:H152	23:C:1029:CLA:C19	1.57	1.23
23:C:1034:CLA:H41	23:C:1034:CLA:C7	1.54	1.23
23:A:1006:CLA:CMB	24:A:1039:PHO:H161	1.66	1.23
23:B:1021:CLA:C17	29:B:1060:MGE:H132	1.68	1.23
23:C:1033:CLA:H151	23:C:1033:CLA:C19	1.63	1.23
23:c:6033:CLA:H192	23:c:6033:CLA:C15	1.60	1.23
23:C:1026:CLA:O1A	23:C:1026:CLA:H51	1.34	1.23
23:b:6010:CLA:H122	23:b:6010:CLA:C9	1.49	1.23
2:b:5103:LEU:HD11	26:b:6048:BCR:C13	1.68	1.23
23:b:6020:CLA:C12	23:b:6020:CLA:H91	1.59	1.23
23:B:1022:CLA:H141	23:B:1022:CLA:C17	1.67	1.22
23:c:6033:CLA:H91	23:c:6033:CLA:C12	1.66	1.22
23:d:6008:CLA:C4	23:d:6008:CLA:H71	1.64	1.22
1:a:5075:ASN:CB	14:t:5003:THR:HG22	1.69	1.22
23:c:6026:CLA:H51	23:c:6026:CLA:O1A	1.34	1.22
26:d:6050:BCR:H371	26:d:6050:BCR:C30	1.66	1.22
14:T:4:ILE:HD12	14:T:4:ILE:O	1.34	1.22
23:c:6033:CLA:H151	23:c:6033:CLA:C19	1.63	1.22
23:b:6021:CLA:C17	29:b:6060:MGE:H132	1.68	1.22
23:D:1008:CLA:C4	23:D:1008:CLA:H71	1.64	1.22
12:M:9:ILE:CD1	12:m:5009:ILE:HD11	1.68	1.21
10:K:28:ILE:HA	10:K:31:LEU:CD1	1.70	1.21
23:b:6012:CLA:H11	23:b:6013:CLA:C2	1.70	1.21
23:b:6020:CLA:H91	23:b:6020:CLA:C13	1.70	1.21
26:z:6053:BCR:H23C	26:z:6053:BCR:C38	1.65	1.21
23:C:1033:CLA:C12	23:C:1033:CLA:H91	1.66	1.21
23:b:6014:CLA:H112	23:b:6014:CLA:C16	1.63	1.21
23:c:6031:CLA:HAA2	23:c:6031:CLA:CED	1.70	1.21
23:B:1009:CLA:CGD	23:B:1009:CLA:HBA2	1.69	1.21
23:b:6022:CLA:O1D	23:b:6022:CLA:HAA1	1.39	1.21
3:c:5121:SER:O	3:c:5124:VAL:HG23	1.41	1.21
23:c:6034:CLA:H121	23:c:6034:CLA:C9	1.70	1.21
23:B:1020:CLA:H12	23:B:1023:CLA:CED	1.69	1.21
23:C:1031:CLA:HAA2	23:C:1031:CLA:O2D	1.36	1.21
1:a:5273:PHE:CD2	4:d:5219:GLU:HB2	1.76	1.21
26:B:1047:BCR:H343	26:B:1047:BCR:C32	1.72	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6009:CLA:HBA2	23:b:6009:CLA:CGD	1.70	1.20
23:b:6014:CLA:H91	23:b:6014:CLA:C12	1.71	1.20
23:b:6022:CLA:H141	23:b:6022:CLA:C17	1.67	1.20
1:a:5269:ARG:HH11	4:d:5231:THR:CG2	1.55	1.20
23:B:1020:CLA:H91	23:B:1020:CLA:C13	1.70	1.20
1:a:5219:VAL:HG21	4:d:5268:HIS:CG	1.77	1.20
23:b:6014:CLA:HBA1	23:b:6014:CLA:CMA	1.69	1.20
23:c:6031:CLA:HAA2	23:c:6031:CLA:O2D	1.36	1.20
23:A:1006:CLA:H111	30:C:1057:DGD:CIB	1.71	1.20
23:B:1022:CLA:OBD	23:B:1022:CLA:HED2	1.39	1.20
23:C:1031:CLA:HAA2	23:C:1031:CLA:CED	1.70	1.20
23:c:6033:CLA:H141	23:c:6033:CLA:C18	1.72	1.20
23:B:1011:CLA:CBB	23:B:1013:CLA:H171	1.71	1.20
23:B:1014:CLA:H91	23:B:1014:CLA:C12	1.71	1.20
2:b:5461:PHE:HD1	2:b:5462:GLY:N	1.40	1.20
11:l:5017:LEU:HD12	11:l:5017:LEU:C	1.65	1.20
23:B:1020:CLA:H13	23:B:1020:CLA:C8	1.54	1.19
23:b:6011:CLA:CBB	23:b:6013:CLA:H171	1.71	1.19
23:b:6020:CLA:H12	23:b:6023:CLA:CED	1.69	1.19
26:b:6047:BCR:C32	26:b:6047:BCR:H343	1.71	1.19
26:B:1047:BCR:H321	26:B:1047:BCR:C9	1.71	1.19
14:T:1:MET:H1	14:T:1:MET:CE	1.54	1.19
2:b:5461:PHE:CZ	29:b:6060:MGE:H4B2	1.77	1.19
23:A:1006:CLA:HBC3	23:A:1006:CLA:HHD	1.25	1.19
23:B:1014:CLA:HBA1	23:B:1014:CLA:CMA	1.69	1.19
26:Z:1053:BCR:H23C	26:Z:1053:BCR:C38	1.65	1.19
26:b:6047:BCR:H321	26:b:6047:BCR:C9	1.71	1.19
23:c:6031:CLA:CMA	23:c:6031:CLA:H2	1.70	1.19
23:c:6036:CLA:H172	26:z:6053:BCR:H373	1.19	1.19
16:v:5160:LYS:NZ	16:v:5160:LYS:HB3	1.53	1.19
23:B:1009:CLA:H12	26:H:1049:BCR:C16	1.73	1.18
23:C:1034:CLA:H141	23:C:1034:CLA:C17	1.71	1.18
23:b:6009:CLA:H12	26:h:6049:BCR:C16	1.73	1.18
23:b:6023:CLA:CGD	23:b:6023:CLA:HAA2	1.74	1.18
23:B:1022:CLA:C14	23:B:1022:CLA:H172	1.71	1.18
23:B:1022:CLA:O1D	23:B:1022:CLA:HAA1	1.39	1.18
23:C:1031:CLA:H2	23:C:1031:CLA:CMA	1.70	1.18
30:C:1056:DGD:HD61	30:C:1056:DGD:C3E	1.62	1.18
23:b:6022:CLA:OBD	23:b:6022:CLA:HED2	1.39	1.18
26:b:6048:BCR:C38	26:b:6048:BCR:H23C	1.63	1.18
23:B:1023:CLA:CGD	23:B:1023:CLA:HAA2	1.74	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5300:PHE:CE2	3:c:5404:LEU:CD1	2.27	1.18
23:C:1033:CLA:C18	23:C:1033:CLA:H141	1.72	1.18
23:C:1037:CLA:O2D	23:C:1037:CLA:HAA1	1.43	1.18
23:b:6010:CLA:CMD	23:b:6011:CLA:H8	1.74	1.18
23:b:6022:CLA:C14	23:b:6022:CLA:H172	1.71	1.18
23:B:1014:CLA:HBC2	23:B:1014:CLA:HHD	1.24	1.17
23:C:1025:CLA:H93	23:C:1025:CLA:CBB	1.75	1.17
10:K:26:PRO:O	10:K:29:PRO:HD2	1.44	1.17
23:b:6011:CLA:CBB	23:b:6013:CLA:H203	1.74	1.17
23:b:6023:CLA:H91	23:b:6023:CLA:C12	1.74	1.17
23:B:1011:CLA:C3D	23:B:1013:CLA:H43	1.74	1.17
23:B:1012:CLA:H121	23:B:1012:CLA:H91	1.23	1.17
10:K:32:PHE:CE1	26:K:1052:BCR:H392	1.80	1.17
26:K:1051:BCR:C8	26:K:1051:BCR:H331	1.59	1.17
23:c:6029:CLA:HBA2	23:c:6029:CLA:CMA	1.70	1.17
23:B:1014:CLA:C19	23:B:1014:CLA:H151	1.74	1.17
23:C:1033:CLA:HBC3	23:C:1033:CLA:HHD	1.26	1.16
10:K:39:VAL:HG22	18:Y:36:ILE:CD1	1.75	1.16
23:a:6006:CLA:HBC3	23:a:6006:CLA:HHD	1.25	1.16
23:b:6020:CLA:C8	23:b:6020:CLA:H13	1.54	1.16
23:c:6037:CLA:HAA1	23:c:6037:CLA:O2D	1.44	1.16
23:B:1022:CLA:C8	23:B:1022:CLA:H13	1.75	1.16
23:B:1009:CLA:O2D	23:B:1009:CLA:HAA1	1.45	1.16
23:c:6025:CLA:H93	23:c:6025:CLA:CBB	1.75	1.16
23:c:6036:CLA:H142	23:c:6036:CLA:H171	1.24	1.16
23:B:1011:CLA:CBB	23:B:1013:CLA:H203	1.74	1.16
23:D:1005:CLA:H151	23:D:1005:CLA:H202	1.27	1.16
23:C:1033:CLA:CMA	23:C:1033:CLA:HBA1	1.75	1.16
14:T:1:MET:O	14:T:4:ILE:HG22	1.46	1.16
23:c:6034:CLA:H92	23:c:6034:CLA:C14	1.76	1.16
23:A:1003:CLA:H161	24:A:1038:PHO:C9	1.75	1.15
27:A:1063:LHG:H121	27:A:1063:LHG:H161	1.19	1.15
23:B:1022:CLA:HAA1	23:B:1022:CLA:CGD	1.75	1.15
3:c:5406:SER:O	3:c:5407:VAL:CG2	1.93	1.15
1:A:279:ARG:NH2	24:A:1038:PHO:HAC1	1.62	1.15
23:A:1003:CLA:CAB	23:A:1006:CLA:HMD2	1.76	1.15
23:A:1006:CLA:C17	26:D:1050:BCR:H291	1.76	1.15
23:B:1022:CLA:H13	23:B:1022:CLA:H8	1.23	1.15
23:C:1029:CLA:HMA2	23:C:1029:CLA:HBA2	1.17	1.15
23:C:1029:CLA:HBA2	23:C:1029:CLA:CMA	1.70	1.15
23:a:6003:CLA:CAB	23:a:6006:CLA:HMD2	1.76	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:a:6003:CLA:H161	24:d:6038:PHO:C9	1.75	1.15
16:v:5067:HIS:CE1	16:v:5072:THR:HG23	1.80	1.15
1:A:78:ILE:HA	1:A:176:ILE:HD12	1.27	1.15
23:b:6014:CLA:H151	23:b:6014:CLA:C19	1.74	1.15
23:b:6022:CLA:HAA1	23:b:6022:CLA:CGD	1.75	1.15
23:b:6022:CLA:C8	23:b:6022:CLA:H13	1.75	1.15
23:c:6029:CLA:HBA2	23:c:6029:CLA:HMA2	1.17	1.15
23:A:1003:CLA:C16	24:A:1038:PHO:H93	1.76	1.15
23:B:1010:CLA:CMD	23:B:1011:CLA:H8	1.74	1.15
23:C:1034:CLA:H172	23:C:1034:CLA:C14	1.73	1.15
23:a:6003:CLA:C16	24:d:6038:PHO:H93	1.76	1.15
23:b:6011:CLA:C3D	23:b:6013:CLA:H43	1.74	1.15
23:b:6022:CLA:H13	23:b:6022:CLA:H8	1.23	1.15
2:B:103:LEU:HB2	23:B:1014:CLA:H71	1.25	1.15
2:B:460:LEU:HA	30:H:1058:DGD:HAG1	1.16	1.15
23:B:1023:CLA:H91	23:B:1023:CLA:C12	1.74	1.15
26:b:6047:BCR:H321	26:b:6047:BCR:C8	1.66	1.15
20:z:5015:LEU:HD22	20:z:5050:LEU:HD12	1.27	1.15
7:H:35:MET:HG2	26:H:1049:BCR:H333	1.28	1.14
23:b:6012:CLA:H121	23:b:6012:CLA:H91	1.22	1.14
24:A:1038:PHO:H193	24:A:1038:PHO:C13	1.77	1.14
23:C:1034:CLA:H102	23:C:1034:CLA:C4	1.78	1.14
23:C:1036:CLA:H172	26:Z:1053:BCR:H373	1.19	1.14
23:B:1014:CLA:HMB3	23:B:1014:CLA:HBB1	1.17	1.14
1:a:5057:PRO:HA	1:a:5068:SER:CB	1.78	1.14
26:h:6049:BCR:H403	26:h:6049:BCR:H23C	1.23	1.14
23:A:1006:CLA:C17	26:D:1050:BCR:H401	1.77	1.14
2:B:257:TRP:CZ3	4:D:291:LEU:HG	1.81	1.14
23:B:1011:CLA:HBB2	23:B:1013:CLA:C18	1.77	1.14
23:c:6034:CLA:H102	23:c:6034:CLA:C4	1.77	1.14
23:A:1006:CLA:H172	26:D:1050:BCR:H401	1.30	1.14
23:b:6019:CLA:H193	23:b:6021:CLA:H71	1.24	1.14
23:c:6033:CLA:HMA2	23:c:6033:CLA:HBA1	1.26	1.14
1:A:60:ILE:HG12	1:A:61:ASP:H	1.03	1.13
23:B:1022:CLA:H72	23:B:1022:CLA:H141	1.29	1.13
26:B:1047:BCR:H363	26:t:1046:BCR:C19	1.77	1.13
23:b:6012:CLA:H12	23:b:6013:CLA:O2A	1.46	1.13
23:c:6031:CLA:H2	23:c:6031:CLA:HMA1	1.19	1.13
23:c:6036:CLA:H142	23:c:6036:CLA:C17	1.75	1.13
24:d:6038:PHO:H193	24:d:6038:PHO:C13	1.77	1.13
26:d:6050:BCR:H331	26:d:6050:BCR:C8	1.53	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:54:ALA:HB2	1:A:72:LEU:HD12	1.24	1.13
1:a:5269:ARG:HD2	4:d:5231:THR:CG2	1.76	1.13
23:c:6033:CLA:HBA1	23:c:6033:CLA:CMA	1.75	1.13
23:c:6034:CLA:HHD	23:c:6034:CLA:CBC	1.78	1.13
23:b:6012:CLA:H11	23:b:6013:CLA:H2	1.14	1.13
26:k:6051:BCR:H331	26:k:6051:BCR:C8	1.59	1.13
23:C:1033:CLA:HBA1	23:C:1033:CLA:HMA2	1.26	1.13
23:H:1017:CLA:HBC2	23:H:1017:CLA:HHD	1.27	1.13
23:b:6009:CLA:HHC	23:b:6009:CLA:HBB1	1.15	1.13
3:C:62:PHE:CE2	10:K:28:ILE:HG21	1.84	1.12
23:C:1028:CLA:C12	23:C:1028:CLA:H172	1.77	1.12
23:C:1033:CLA:OBD	23:C:1033:CLA:HED3	1.48	1.12
10:K:28:ILE:HD11	26:K:1051:BCR:C9	1.78	1.12
12:M:9:ILE:CG1	12:m:5009:ILE:HG13	1.78	1.12
23:b:6011:CLA:HBB2	23:b:6013:CLA:C18	1.77	1.13
23:c:6033:CLA:H91	23:c:6033:CLA:H122	1.21	1.13
23:c:6033:CLA:HED3	23:c:6033:CLA:OBD	1.48	1.13
23:b:6019:CLA:CED	23:b:6019:CLA:HAA2	1.79	1.12
16:v:5067:HIS:HE1	16:v:5072:THR:HG23	1.03	1.12
2:B:271:THR:HG23	2:B:274:GLN:HB2	1.18	1.12
23:B:1023:CLA:H91	23:B:1023:CLA:H121	1.29	1.12
23:a:6006:CLA:H172	26:d:6050:BCR:H401	1.19	1.12
23:c:6028:CLA:H172	23:c:6028:CLA:C12	1.77	1.12
4:d:5090:LEU:HD13	4:d:5109:GLY:HA2	1.26	1.12
1:A:57:PRO:HA	1:A:68:SER:CB	1.79	1.12
23:B:1020:CLA:H12	23:B:1023:CLA:HED1	1.12	1.12
3:C:264:PHE:CE1	26:C:1054:BCR:H311	1.83	1.12
23:C:1034:CLA:H41	23:C:1034:CLA:C10	1.79	1.12
27:a:6063:LHG:H161	27:a:6063:LHG:H121	1.19	1.12
23:b:6009:CLA:O2D	23:b:6009:CLA:HAA1	1.45	1.12
3:c:5347:GLY:HA3	13:o:5043:ASN:HB2	1.28	1.12
23:c:6034:CLA:C9	23:c:6034:CLA:H142	1.78	1.12
24:d:6038:PHO:HED2	24:d:6038:PHO:CAD	1.79	1.12
24:A:1038:PHO:HMB3	23:D:1005:CLA:C9	1.80	1.12
26:C:1054:BCR:H23C	26:C:1054:BCR:H383	1.18	1.12
29:D:1062:MGE:H241	14:T:13:ILE:HG21	1.31	1.12
1:a:5150:PRO:HA	23:a:6003:CLA:H42	1.27	1.12
23:d:6005:CLA:H92	24:d:6038:PHO:CMB	1.80	1.12
1:A:150:PRO:HA	23:A:1003:CLA:H42	1.23	1.12
23:B:1009:CLA:HHC	23:B:1009:CLA:HBB1	1.15	1.12
23:B:1012:CLA:H12	23:B:1013:CLA:C1	1.78	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:C:1036:CLA:H142	23:C:1036:CLA:C17	1.75	1.12
23:b:6016:CLA:H52	23:b:6017:CLA:H102	1.28	1.12
23:c:6025:CLA:HAA1	23:c:6025:CLA:CGD	1.80	1.12
4:d:5274:VAL:HB	4:d:5275:PRO:HD3	1.30	1.12
23:C:1034:CLA:H142	23:C:1034:CLA:C9	1.79	1.11
12:M:9:ILE:HD11	12:m:5009:ILE:CD1	1.78	1.11
2:b:5461:PHE:CD1	2:b:5462:GLY:N	2.18	1.11
23:b:6017:CLA:H152	23:b:6017:CLA:H192	1.31	1.11
23:D:1005:CLA:H151	23:D:1005:CLA:C20	1.81	1.11
10:K:28:ILE:CA	10:K:31:LEU:HD12	1.81	1.11
23:b:6014:CLA:HHD	23:b:6014:CLA:HBC2	1.24	1.11
23:C:1034:CLA:HHD	23:C:1034:CLA:HBC3	1.27	1.11
1:a:5095:PRO:HA	23:a:6007:CLA:HED1	1.32	1.11
23:a:6006:CLA:C2	23:a:6006:CLA:H72	1.80	1.11
23:C:1034:CLA:C9	23:C:1034:CLA:H121	1.77	1.11
2:b:5100:LEU:HB2	23:b:6014:CLA:H71	1.30	1.11
23:b:6020:CLA:H91	23:b:6020:CLA:H121	1.26	1.11
23:b:6021:CLA:H62	29:b:6060:MGE:H231	1.20	1.11
23:c:6034:CLA:C14	23:c:6034:CLA:H172	1.77	1.11
30:c:6056:DGD:HAV1	30:c:6057:DGD:HA82	1.31	1.11
23:d:6005:CLA:C20	23:d:6005:CLA:H151	1.81	1.11
23:B:1016:CLA:H52	23:H:1017:CLA:H101	1.24	1.11
23:A:1003:CLA:H161	24:A:1038:PHO:H93	1.11	1.10
23:C:1025:CLA:HAA1	23:C:1025:CLA:CGD	1.80	1.10
26:D:1050:BCR:C8	26:D:1050:BCR:H331	1.53	1.10
1:a:5099:ALA:HB1	1:a:5104:GLU:HB3	1.30	1.10
2:b:5382:ARG:HD3	15:u:5044:ASP:HB3	1.32	1.10
23:b:6020:CLA:H12	23:b:6023:CLA:HED1	1.12	1.10
23:c:6034:CLA:H41	23:c:6034:CLA:C10	1.78	1.10
16:v:5067:HIS:ND1	16:v:5072:THR:HA	1.66	1.10
23:b:6009:CLA:CMB	26:h:6049:BCR:C39	2.29	1.10
23:b:6017:CLA:H152	23:b:6017:CLA:C19	1.81	1.10
1:A:149:ALA:HB1	1:A:283:VAL:CG2	1.80	1.10
23:B:1019:CLA:CED	23:B:1019:CLA:HAA2	1.79	1.10
23:B:1022:CLA:C14	23:B:1022:CLA:C7	2.30	1.10
23:C:1034:CLA:C14	23:C:1034:CLA:H92	1.82	1.10
23:C:1036:CLA:H142	23:C:1036:CLA:H171	1.24	1.10
26:T:6046:BCR:H352	26:b:6047:BCR:C38	1.81	1.10
1:a:5219:VAL:HG11	4:d:5268:HIS:HB3	1.30	1.10
2:b:5021:LEU:HD13	2:b:5108:ALA:HA	1.27	1.10
23:c:6034:CLA:HED1	10:k:5029:PRO:HG2	1.30	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1009:CLA:CGD	23:B:1009:CLA:CBA	2.30	1.10
23:C:1031:CLA:C14	23:C:1031:CLA:H171	1.81	1.10
5:E:27:ILE:HB	5:E:28:PRO:HD3	1.21	1.10
26:T:6046:BCR:C38	26:T:6046:BCR:C37	2.30	1.10
27:a:6063:LHG:H322	23:c:6034:CLA:C14	1.81	1.10
23:b:6014:CLA:HBB1	23:b:6014:CLA:HMB3	1.17	1.10
23:b:6016:CLA:C5	23:b:6017:CLA:C10	2.29	1.10
23:b:6019:CLA:CAA	23:b:6019:CLA:CED	2.30	1.10
23:A:1006:CLA:H111	30:C:1057:DGD:HBG3	1.13	1.10
2:B:38:ALA:O	2:B:42:LEU:HB2	1.52	1.10
26:c:6054:BCR:H23C	26:c:6054:BCR:H383	1.18	1.10
4:d:5253:TRP:HA	4:d:5256:ILE:HG22	1.20	1.10
24:A:1038:PHO:CMB	23:D:1005:CLA:H92	1.80	1.09
23:B:1016:CLA:H142	23:D:1008:CLA:HMB2	1.29	1.09
23:B:1024:CLA:HMC3	23:B:1024:CLA:HBC2	1.33	1.09
23:C:1034:CLA:H142	23:C:1034:CLA:H92	1.10	1.09
23:H:1017:CLA:H152	23:H:1017:CLA:C19	1.81	1.09
23:a:6007:CLA:HHD	23:a:6007:CLA:CBC	1.81	1.09
23:b:6014:CLA:O1A	23:b:6014:CLA:HMA2	1.52	1.09
23:b:6022:CLA:HHD	23:b:6022:CLA:HBC3	1.11	1.09
23:d:6005:CLA:HED2	23:d:6005:CLA:C2A	1.80	1.09
16:v:5089:THR:OG1	16:v:5109:ASP:HA	1.52	1.09
1:A:95:PRO:HA	23:A:1007:CLA:HED1	1.12	1.09
1:A:279:ARG:HH22	24:A:1038:PHO:HAC1	1.08	1.09
27:A:1063:LHG:H322	23:C:1034:CLA:C14	1.82	1.09
23:B:1009:CLA:CMB	26:H:1049:BCR:C39	2.29	1.09
23:B:1014:CLA:O1A	23:B:1014:CLA:HMA2	1.52	1.09
23:B:1016:CLA:C5	23:H:1017:CLA:C10	2.29	1.09
23:B:1019:CLA:H62	23:B:1021:CLA:HED1	1.34	1.09
26:B:1045:BCR:H353	26:B:1047:BCR:C10	1.82	1.09
23:D:1005:CLA:HED2	23:D:1005:CLA:C2A	1.80	1.09
12:M:20:VAL:HG21	12:m:5020:VAL:HG21	1.31	1.09
13:O:119:LEU:H	13:O:155:THR:HG22	1.14	1.09
26:b:6045:BCR:H353	26:b:6047:BCR:C10	1.82	1.09
23:c:6031:CLA:H171	23:c:6031:CLA:C14	1.81	1.09
23:c:6034:CLA:H91	23:c:6034:CLA:C12	1.79	1.09
23:d:6005:CLA:C9	24:d:6038:PHO:HMB3	1.80	1.09
26:k:6051:BCR:C32	26:k:6052:BCR:C11	2.29	1.09
1:A:95:PRO:HA	23:A:1007:CLA:CED	1.82	1.09
24:A:1038:PHO:HED2	24:A:1038:PHO:CAD	1.79	1.09
10:K:28:ILE:CD1	26:K:1051:BCR:C8	2.30	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:T:6046:BCR:C26	26:T:6046:BCR:C37	2.30	1.09
23:d:6005:CLA:H151	23:d:6005:CLA:H202	1.27	1.09
26:t:1046:BCR:C26	26:t:1046:BCR:C37	2.30	1.09
23:A:1007:CLA:HHD	23:A:1007:CLA:CBC	1.81	1.09
16:V:160:LYS:HB2	16:V:160:LYS:NZ	1.48	1.09
23:b:6022:CLA:C14	23:b:6022:CLA:C7	2.30	1.09
23:b:6024:CLA:HMC3	23:b:6024:CLA:HBC2	1.33	1.09
23:c:6034:CLA:C9	23:c:6034:CLA:C14	2.30	1.09
23:c:6034:CLA:HHD	23:c:6034:CLA:HBC3	1.09	1.09
30:c:6056:DGD:HE3	30:c:6056:DGD:C6D	1.83	1.09
26:t:1046:BCR:C38	26:t:1046:BCR:C37	2.30	1.09
2:B:253:ALA:HB2	2:B:455:HIS:HB2	1.10	1.09
23:B:1022:CLA:H71	23:B:1022:CLA:H171	1.31	1.09
23:C:1029:CLA:C20	23:C:1030:CLA:H192	1.83	1.09
23:C:1034:CLA:C4	23:C:1034:CLA:H71	1.78	1.09
10:K:39:VAL:HG22	18:Y:36:ILE:HD11	1.25	1.09
29:L:1061:MGE:H1G2	29:L:1061:MGE:O1B	1.53	1.09
23:b:6009:CLA:CGD	23:b:6009:CLA:CBA	2.30	1.09
23:b:6020:CLA:H142	23:b:6020:CLA:C9	1.83	1.09
23:c:6034:CLA:C4	23:c:6034:CLA:C10	2.30	1.09
24:d:6038:PHO:CED	24:d:6038:PHO:C3D	2.30	1.09
24:A:1038:PHO:C3D	24:A:1038:PHO:CED	2.30	1.08
23:B:1009:CLA:HMB3	26:H:1049:BCR:C39	1.83	1.08
23:B:1011:CLA:HHC	23:B:1011:CLA:HBB1	1.34	1.08
23:B:1019:CLA:CAA	23:B:1019:CLA:CED	2.30	1.08
23:B:1022:CLA:C7	23:B:1022:CLA:H171	1.83	1.08
26:B:1047:BCR:H321	26:B:1047:BCR:C8	1.66	1.08
23:C:1031:CLA:H2	23:C:1031:CLA:HMA1	1.19	1.08
23:D:1008:CLA:H71	23:D:1008:CLA:H41	1.10	1.08
12:M:9:ILE:HG13	12:m:5009:ILE:HG13	1.14	1.08
23:b:6009:CLA:HMB3	26:h:6049:BCR:C39	1.83	1.08
3:c:5061:VAL:CG2	3:c:5125:LEU:CD1	2.31	1.08
4:d:5264:LYS:HD3	4:d:5268:HIS:HE1	1.14	1.08
13:o:5179:THR:HG22	13:o:5180:ALA:H	1.03	1.08
24:A:1038:PHO:HED2	24:A:1038:PHO:C3D	1.83	1.08
23:C:1036:CLA:C17	23:C:1036:CLA:C14	2.31	1.08
23:H:1017:CLA:HBB1	26:H:1049:BCR:C32	1.84	1.08
2:b:5294:THR:HG23	2:b:5297:GLU:H	1.18	1.08
23:b:6017:CLA:HBB1	26:h:6049:BCR:C32	1.84	1.08
23:b:6020:CLA:C13	23:b:6020:CLA:C9	2.31	1.08
26:b:6047:BCR:C34	26:b:6047:BCR:C32	2.30	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5213:ILE:O	4:d:5217:THR:HB	1.52	1.08
23:A:1007:CLA:HHD	23:A:1007:CLA:HBC2	1.11	1.08
23:B:1010:CLA:HMD2	23:B:1011:CLA:H8	1.14	1.08
23:B:1019:CLA:CED	23:B:1019:CLA:C2A	2.31	1.08
23:B:1020:CLA:H91	23:B:1020:CLA:H121	1.26	1.08
23:B:1021:CLA:H62	29:B:1060:MGE:H231	1.31	1.08
26:B:1047:BCR:C32	26:B:1047:BCR:C8	2.30	1.08
23:b:6020:CLA:H13	23:b:6020:CLA:H8	1.08	1.08
23:b:6022:CLA:H72	23:b:6022:CLA:H141	1.29	1.08
23:c:6034:CLA:H141	23:c:6034:CLA:C17	1.74	1.08
23:d:6008:CLA:H71	23:d:6008:CLA:H41	1.10	1.08
2:B:152:GLY:C	23:B:1014:CLA:HMC1	1.77	1.08
23:C:1034:CLA:H91	23:C:1034:CLA:C12	1.83	1.08
30:C:1056:DGD:HE3	30:C:1056:DGD:C6D	1.83	1.08
26:K:1051:BCR:H322	26:K:1052:BCR:H10C	1.08	1.08
23:b:6016:CLA:H142	23:d:6008:CLA:HMB2	1.29	1.08
23:B:1016:CLA:H52	23:H:1017:CLA:H102	1.28	1.08
26:B:1047:BCR:C34	26:B:1047:BCR:C32	2.30	1.08
1:a:5210:LEU:HD23	23:a:6006:CLA:H41	1.32	1.08
23:b:6019:CLA:CED	23:b:6019:CLA:C2A	2.31	1.08
23:b:6019:CLA:HBB1	23:b:6019:CLA:CHC	1.84	1.08
23:b:6022:CLA:H41	23:b:6022:CLA:H93	1.11	1.08
23:c:6033:CLA:HBC3	23:c:6033:CLA:HHD	1.26	1.08
23:c:6034:CLA:HED3	10:k:5029:PRO:CB	1.83	1.08
24:d:6038:PHO:H141	24:d:6038:PHO:H193	1.12	1.08
23:B:1009:CLA:C2B	26:H:1049:BCR:H382	1.82	1.07
23:B:1012:CLA:C9	23:B:1012:CLA:C12	2.31	1.07
1:a:5273:PHE:HD2	4:d:5219:GLU:HB2	1.06	1.07
23:b:6011:CLA:H121	26:h:6049:BCR:H322	1.36	1.07
23:B:1009:CLA:H43	26:H:1049:BCR:H353	1.35	1.07
1:a:5075:ASN:HB2	14:t:5003:THR:HG22	1.13	1.07
2:b:5149:GLY:HA2	2:b:5152:ALA:HB3	1.36	1.07
2:b:5268:THR:HG23	2:b:5271:GLN:HB2	1.36	1.07
23:b:6009:CLA:C2B	26:h:6049:BCR:H382	1.83	1.07
23:b:6016:CLA:C5	23:b:6017:CLA:H102	1.85	1.07
23:b:6017:CLA:HHD	23:b:6017:CLA:HBC2	1.27	1.07
23:b:6022:CLA:C7	23:b:6022:CLA:H171	1.83	1.07
3:c:5305:THR:HG22	3:c:5308:GLU:HB2	1.36	1.07
10:k:5032:PHE:CE2	26:k:6052:BCR:C19	2.36	1.07
23:C:1034:CLA:C14	23:C:1034:CLA:C9	2.33	1.07
1:a:5269:ARG:HD2	4:d:5231:THR:HG22	1.11	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:a:6007:CLA:HHD	23:a:6007:CLA:HBC2	1.11	1.07
23:b:6009:CLA:H43	26:h:6049:BCR:H353	1.35	1.07
3:c:5061:VAL:HB	3:c:5125:LEU:HD12	1.30	1.07
30:c:6056:DGD:HE5	30:c:6056:DGD:HD62	1.10	1.07
23:A:1006:CLA:HMB1	24:A:1039:PHO:H161	1.07	1.07
23:B:1020:CLA:H2	23:B:1023:CLA:HBA1	1.36	1.07
23:B:1022:CLA:CBC	23:B:1022:CLA:CHD	2.30	1.07
2:b:5457:LEU:HA	30:h:6058:DGD:HAG1	1.35	1.07
23:b:6016:CLA:H52	23:b:6017:CLA:H101	1.24	1.07
23:b:6023:CLA:H91	23:b:6023:CLA:H121	1.29	1.07
23:c:6033:CLA:C12	23:c:6033:CLA:C9	2.30	1.07
23:c:6034:CLA:C4	23:c:6034:CLA:H71	1.78	1.07
2:B:64:PRO:HB2	2:B:268:PHE:CE2	1.90	1.07
23:B:1016:CLA:C5	23:H:1017:CLA:H102	1.85	1.07
23:B:1020:CLA:H91	23:B:1020:CLA:C14	1.84	1.07
23:B:1020:CLA:C13	23:B:1020:CLA:C9	2.32	1.07
23:C:1034:CLA:C4	23:C:1034:CLA:C10	2.32	1.07
4:D:253:TRP:HA	4:D:256:ILE:HG22	1.33	1.07
23:H:1017:CLA:H152	23:H:1017:CLA:H192	1.31	1.07
26:K:1052:BCR:H23C	26:K:1052:BCR:H382	1.11	1.07
23:c:6028:CLA:H43	30:c:6057:DGD:HA22	1.37	1.07
23:B:1020:CLA:C9	23:B:1020:CLA:H142	1.83	1.06
23:B:1021:CLA:H172	29:B:1060:MGE:CDA	1.84	1.06
23:B:1021:CLA:H172	29:B:1060:MGE:H132	1.07	1.06
23:C:1032:CLA:O1A	23:C:1032:CLA:H43	1.54	1.06
26:H:1049:BCR:H403	26:H:1049:BCR:H23C	1.23	1.06
23:b:6020:CLA:H91	23:b:6020:CLA:C14	1.85	1.06
23:c:6036:CLA:C17	23:c:6036:CLA:C14	2.31	1.06
23:B:1011:CLA:H42	23:B:1013:CLA:H91	1.07	1.06
3:C:45:LEU:HD22	3:C:140:LEU:H	1.08	1.06
23:C:1029:CLA:H201	23:C:1030:CLA:H192	1.35	1.06
13:O:127:ILE:H	13:O:127:ILE:HD12	1.15	1.06
23:a:6003:CLA:H161	24:d:6038:PHO:H93	1.11	1.06
2:b:5149:GLY:C	23:b:6014:CLA:HMC1	1.79	1.06
23:b:6012:CLA:C9	23:b:6012:CLA:C12	2.32	1.06
23:c:6029:CLA:H201	23:c:6030:CLA:H192	1.35	1.06
23:c:6034:CLA:C9	23:c:6034:CLA:C12	2.30	1.06
23:B:1020:CLA:H13	23:B:1020:CLA:H8	1.08	1.06
23:C:1033:CLA:C12	23:C:1033:CLA:C9	2.30	1.06
23:b:6010:CLA:HMD2	23:b:6011:CLA:H8	1.14	1.06
23:b:6014:CLA:H193	23:b:6014:CLA:C15	1.84	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6021:CLA:H2A	23:b:6021:CLA:O2A	1.52	1.06
3:c:5051:GLY:HA3	3:c:5132:HIS:HB2	1.31	1.06
3:c:5058:GLY:HA3	3:c:5125:LEU:HB3	1.33	1.06
4:d:5328:TRP:HZ3	16:v:5161:VAL:HA	1.16	1.06
23:d:6005:CLA:C20	23:d:6005:CLA:C15	2.34	1.06
23:B:1019:CLA:H193	23:B:1021:CLA:H71	1.24	1.06
23:D:1005:CLA:H2A	23:D:1005:CLA:HED2	1.08	1.06
23:H:1017:CLA:H192	23:H:1017:CLA:C15	1.86	1.06
23:b:6009:CLA:H43	26:h:6049:BCR:C35	1.85	1.06
23:b:6021:CLA:H172	29:b:6060:MGE:CDA	1.84	1.06
23:c:6029:CLA:C20	23:c:6030:CLA:H192	1.83	1.06
12:m:5008:PHE:CD1	12:m:5008:PHE:C	2.30	1.06
23:B:1009:CLA:H43	26:H:1049:BCR:C35	1.85	1.06
23:B:1009:CLA:HED3	23:B:1009:CLA:H2A	1.38	1.06
23:B:1022:CLA:H41	23:B:1022:CLA:H93	1.11	1.06
23:C:1033:CLA:H91	23:C:1033:CLA:H122	1.21	1.06
23:C:1035:CLA:H101	26:K:1052:BCR:H403	1.35	1.06
24:d:6038:PHO:HED2	24:d:6038:PHO:C3D	1.84	1.06
26:k:6052:BCR:H382	26:k:6052:BCR:H23C	1.11	1.06
2:B:465:GLY:H	23:B:1019:CLA:CBC	1.68	1.05
23:B:1021:CLA:O2A	23:B:1021:CLA:H2A	1.52	1.05
30:C:1056:DGD:C6D	30:C:1056:DGD:HE5	1.86	1.05
1:a:5219:VAL:HG13	4:d:5268:HIS:HB3	1.36	1.05
23:b:6012:CLA:HHD	23:b:6012:CLA:CBC	1.86	1.05
23:c:6035:CLA:H101	26:k:6052:BCR:H403	1.35	1.05
30:c:6056:DGD:C6D	30:c:6056:DGD:HE5	1.86	1.05
26:k:6051:BCR:H322	26:k:6052:BCR:H10C	1.09	1.05
23:C:1031:CLA:H141	23:C:1031:CLA:C17	1.86	1.05
10:K:33:PHE:C	10:K:33:PHE:CD1	2.29	1.05
1:a:5202:VAL:O	1:a:5206:PHE:HB2	1.57	1.05
23:b:6011:CLA:H42	23:b:6013:CLA:H91	1.07	1.05
1:a:5273:PHE:CE2	4:d:5219:GLU:CA	2.39	1.05
23:a:6003:CLA:C14	24:d:6038:PHO:C9	2.34	1.05
26:b:6047:BCR:C38	26:b:6047:BCR:H23C	1.85	1.05
23:c:6029:CLA:CMA	23:c:6029:CLA:CBA	2.30	1.05
23:c:6032:CLA:O1A	23:c:6032:CLA:H43	1.54	1.05
2:B:464:PHE:O	2:B:467:ILE:HB	1.56	1.05
30:C:1056:DGD:HAV1	30:C:1057:DGD:HA82	1.31	1.05
23:b:6011:CLA:HHC	23:b:6011:CLA:HBB1	1.34	1.05
23:c:6030:CLA:HMC2	23:c:6031:CLA:H101	1.09	1.05
6:f:5037:ILE:HA	6:f:5040:MET:HE3	1.36	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5213:VAL:HG11	15:u:5039:LEU:HD13	1.33	1.05
1:A:149:ALA:HB1	1:A:283:VAL:HG22	1.33	1.05
13:O:65:ARG:HH22	13:O:66:ILE:HG12	1.18	1.05
23:b:6012:CLA:H12	23:b:6013:CLA:C1	1.87	1.05
23:b:6016:CLA:HHD	23:b:6016:CLA:CBC	1.86	1.05
23:b:6019:CLA:H2A	23:b:6019:CLA:O2D	1.57	1.05
26:b:6047:BCR:H23C	26:b:6047:BCR:H383	1.05	1.05
13:o:5119:LEU:H	13:o:5155:THR:HG22	1.20	1.05
2:B:24:LEU:HD13	2:B:111:ALA:HA	1.34	1.04
23:B:1012:CLA:H121	23:B:1012:CLA:H93	1.37	1.04
23:B:1014:CLA:H193	23:B:1014:CLA:C15	1.84	1.04
23:B:1014:CLA:H161	23:B:1014:CLA:C11	1.87	1.04
23:B:1021:CLA:H193	29:B:1060:MGE:H133	1.39	1.04
23:B:1021:CLA:OBD	23:B:1022:CLA:HHC	1.57	1.04
23:C:1034:CLA:C7	23:C:1034:CLA:C4	2.30	1.04
27:a:6063:LHG:C32	23:c:6034:CLA:C14	2.34	1.04
23:b:6017:CLA:H192	23:b:6017:CLA:C15	1.86	1.04
5:e:5016:SER:HB3	5:e:5019:TYR:HB2	1.36	1.04
23:B:1016:CLA:HHD	23:B:1016:CLA:CBC	1.86	1.04
23:B:1022:CLA:HHD	23:B:1022:CLA:HBC3	1.10	1.04
30:C:1056:DGD:HE5	30:C:1056:DGD:HD62	1.10	1.04
6:F:37:ILE:HA	6:F:40:MET:HE3	1.33	1.04
10:K:32:PHE:HE1	26:K:1052:BCR:H24C	0.94	1.04
23:b:6019:CLA:H62	23:b:6021:CLA:HED1	1.34	1.04
23:b:6022:CLA:CBC	23:b:6022:CLA:CHD	2.30	1.04
26:b:6047:BCR:C32	26:b:6047:BCR:C8	2.30	1.04
23:c:6025:CLA:C16	23:c:6031:CLA:HMB2	1.87	1.04
23:d:6005:CLA:H2A	23:d:6005:CLA:HED2	1.08	1.04
24:A:1038:PHO:C19	24:A:1038:PHO:C14	2.30	1.04
3:C:62:PHE:CE2	10:K:28:ILE:CG2	2.39	1.04
26:K:1051:BCR:C32	26:K:1052:BCR:C11	2.35	1.04
29:d:6062:MGE:O5D	11:l:5015:THR:HB	1.55	1.04
23:C:1030:CLA:HMC2	23:C:1031:CLA:H101	1.09	1.04
10:K:28:ILE:CD1	26:K:1051:BCR:C7	2.36	1.04
10:K:33:PHE:O	10:K:33:PHE:HD1	1.38	1.04
23:b:6020:CLA:H2	23:b:6023:CLA:HBA1	1.36	1.04
23:b:6021:CLA:H193	29:b:6060:MGE:H133	1.39	1.04
23:b:6022:CLA:HHD	23:b:6022:CLA:HBC2	1.40	1.04
3:c:5179:ALA:HA	3:c:5184:GLY:HA2	1.38	1.04
23:A:1003:CLA:C14	24:A:1038:PHO:C9	2.34	1.04
23:A:1006:CLA:C17	26:D:1050:BCR:C29	2.35	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:25:MET:HG3	26:B:1045:BCR:H292	1.06	1.04
23:B:1012:CLA:HHD	23:B:1012:CLA:CBC	1.86	1.04
23:B:1019:CLA:H2A	23:B:1019:CLA:O2D	1.57	1.04
26:B:1047:BCR:H23C	26:B:1047:BCR:H383	1.05	1.04
23:b:6021:CLA:OBD	23:b:6022:CLA:HHC	1.57	1.04
23:b:6022:CLA:C8	23:b:6022:CLA:C13	2.30	1.04
3:c:5169:GLY:HA3	3:c:5245:ILE:HG12	1.35	1.04
23:c:6031:CLA:C17	23:c:6031:CLA:H141	1.86	1.04
23:c:6034:CLA:H92	23:c:6034:CLA:H142	1.07	1.04
23:B:1019:CLA:H193	23:B:1021:CLA:H52	1.36	1.03
1:a:5279:ARG:O	1:a:5283:VAL:HG12	1.57	1.03
23:a:6006:CLA:H142	23:d:6004:CLA:H192	1.37	1.03
23:b:6020:CLA:C13	23:b:6020:CLA:C8	2.35	1.03
23:A:1003:CLA:H141	24:A:1038:PHO:H93	1.39	1.03
23:B:1019:CLA:HBB1	23:B:1019:CLA:HHC	1.05	1.03
3:C:107:ASP:OD1	3:C:110:PRO:HD3	1.57	1.03
3:C:294:ASN:HB2	30:C:1055:DGD:O3E	1.59	1.03
4:D:274:VAL:HB	4:D:275:PRO:HD3	1.37	1.03
23:a:6006:CLA:HMB1	24:a:6039:PHO:H161	1.07	1.03
23:b:6021:CLA:H172	29:b:6060:MGE:H132	1.06	1.03
23:b:6022:CLA:H8	23:b:6022:CLA:C13	1.81	1.03
23:d:6005:CLA:H92	24:d:6038:PHO:HMB3	1.04	1.03
1:A:193:LEU:HD11	4:D:182:LEU:HD12	1.39	1.03
24:A:1038:PHO:H143	24:A:1038:PHO:H102	1.37	1.03
27:A:1063:LHG:C32	23:C:1034:CLA:C14	2.35	1.03
23:B:1022:CLA:CHD	23:B:1022:CLA:HBC3	1.87	1.03
1:a:5269:ARG:HH21	4:d:5243:THR:HB	1.21	1.03
23:a:6003:CLA:HBC2	23:a:6003:CLA:HHD	1.39	1.03
2:b:5022:MET:HG3	26:b:6045:BCR:H292	1.06	1.03
2:b:5365:VAL:HG23	2:b:5422:ILE:HD11	1.40	1.03
23:b:6011:CLA:H192	23:b:6017:CLA:H121	1.39	1.03
23:A:1006:CLA:H171	26:D:1050:BCR:H291	1.06	1.03
24:A:1038:PHO:HMB3	23:D:1005:CLA:H92	1.05	1.03
23:B:1011:CLA:H121	26:H:1049:BCR:H322	1.36	1.03
26:B:1047:BCR:C36	26:t:1046:BCR:C19	2.37	1.03
1:a:5272:HIS:HD2	4:d:5218:VAL:HG21	1.23	1.03
23:c:6030:CLA:CMC	23:c:6031:CLA:H101	1.87	1.03
10:k:5039:VAL:HG22	18:y:5018:ILE:HD12	1.38	1.03
23:A:1003:CLA:H141	24:A:1038:PHO:H91	1.06	1.03
23:C:1025:CLA:H93	23:C:1025:CLA:HBB1	1.36	1.03
20:Z:15:LEU:HD22	20:Z:50:LEU:HD12	1.39	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6012:CLA:H121	23:b:6012:CLA:H93	1.40	1.03
23:b:6019:CLA:H193	23:b:6021:CLA:H52	1.36	1.03
26:k:6051:BCR:C32	26:k:6052:BCR:C10	2.37	1.03
20:z:5009:LEU:HD13	20:z:5010:ALA:H	1.23	1.03
23:B:1022:CLA:H13	23:B:1022:CLA:C7	1.88	1.02
3:C:63:TRP:HZ3	23:C:1027:CLA:CBC	1.72	1.02
23:C:1034:CLA:C9	23:C:1034:CLA:C12	2.35	1.02
18:Y:39:LEU:HD21	20:Z:25:VAL:HG22	1.41	1.02
26:a:6044:BCR:C39	26:a:6044:BCR:C37	2.30	1.02
27:a:6063:LHG:H322	23:c:6034:CLA:H142	1.39	1.02
27:a:6063:LHG:C32	23:c:6034:CLA:H143	1.89	1.02
2:b:5461:PHE:CD1	2:b:5461:PHE:C	2.37	1.02
23:b:6022:CLA:H13	23:b:6022:CLA:C7	1.88	1.02
3:c:5061:VAL:HB	3:c:5125:LEU:CD1	1.88	1.02
3:c:5288:CYS:SG	30:c:6055:DGD:HB21	1.99	1.02
13:o:5122:VAL:HG12	13:o:5123:GLU:H	1.23	1.02
23:B:1022:CLA:C8	23:B:1022:CLA:C13	2.30	1.02
26:B:1045:BCR:C40	26:B:1045:BCR:C37	2.30	1.02
3:C:169:GLY:HA3	3:C:245:ILE:HG12	1.41	1.02
23:C:1028:CLA:H43	30:C:1057:DGD:HA22	1.37	1.02
10:K:28:ILE:HA	10:K:31:LEU:HD12	1.05	1.02
2:b:5228:MET:HA	2:b:5233:THR:HG21	1.42	1.02
23:b:6014:CLA:H161	23:b:6014:CLA:C11	1.87	1.02
23:b:6019:CLA:CBB	23:b:6019:CLA:HHC	1.86	1.02
23:b:6022:CLA:H171	23:b:6022:CLA:H71	1.31	1.02
24:d:6038:PHO:H102	24:d:6038:PHO:H143	1.37	1.02
29:d:6061:MGE:H1G2	29:d:6061:MGE:O1B	1.53	1.02
2:B:254:GLY:O	2:B:258:TYR:HD1	1.40	1.02
2:B:465:GLY:H	23:B:1019:CLA:HBC1	1.23	1.02
23:B:1009:CLA:H12	26:H:1049:BCR:C17	1.90	1.02
23:B:1022:CLA:HHD	23:B:1022:CLA:HBC2	1.40	1.02
26:D:1050:BCR:C40	26:D:1050:BCR:C37	2.30	1.02
27:a:6063:LHG:H312	23:c:6034:CLA:C9	1.88	1.02
23:b:6022:CLA:HBC3	23:b:6022:CLA:CHD	1.87	1.02
3:c:5063:TRP:HZ3	23:c:6027:CLA:CBC	1.70	1.02
23:c:6025:CLA:H93	23:c:6025:CLA:HBB1	1.36	1.02
16:v:5120:SER:O	16:v:5123:SER:HB3	1.58	1.02
23:A:1006:CLA:H72	23:A:1006:CLA:C2	1.84	1.02
27:A:1063:LHG:C32	23:C:1034:CLA:H143	1.89	1.02
23:B:1022:CLA:H72	23:B:1022:CLA:H142	1.39	1.02
23:C:1030:CLA:CMC	23:C:1031:CLA:H101	1.87	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5060:ILE:HG12	1:a:5061:ASP:H	1.19	1.02
1:a:5300:PHE:HE2	3:c:5404:LEU:CD1	1.67	1.02
23:a:6003:CLA:H141	24:d:6038:PHO:H91	1.06	1.02
23:b:6012:CLA:HHC	23:b:6012:CLA:HBB1	1.42	1.02
23:b:6019:CLA:C19	23:b:6021:CLA:H52	1.90	1.02
23:c:6031:CLA:H171	23:c:6031:CLA:H141	1.42	1.02
26:k:6051:BCR:C39	26:k:6051:BCR:C37	2.30	1.02
23:A:1006:CLA:H171	26:D:1050:BCR:C40	1.89	1.02
27:A:1063:LHG:H312	23:C:1034:CLA:C9	1.90	1.02
2:B:25:MET:HE1	2:B:108:PHE:CD1	1.95	1.02
30:C:1056:DGD:HBN2	10:K:30:VAL:HG21	1.42	1.02
23:a:6003:CLA:H141	24:d:6038:PHO:H93	1.38	1.02
23:b:6012:CLA:C1	23:b:6013:CLA:H2	1.90	1.02
23:b:6016:CLA:H142	23:d:6008:CLA:CMB	1.89	1.02
26:b:6048:BCR:H383	26:b:6048:BCR:C23	1.85	1.02
16:v:5067:HIS:HA	16:v:5071:ILE:O	1.57	1.02
23:A:1003:CLA:HHD	23:A:1003:CLA:HBC2	1.39	1.01
6:F:41:GLN:NE2	9:J:27:LEU:HB3	1.74	1.01
1:a:5149:ALA:HB1	1:a:5283:VAL:CG2	1.89	1.01
23:b:6009:CLA:H12	26:h:6049:BCR:C17	1.90	1.01
3:c:5256:PRO:HB3	3:c:5261:ARG:HH21	1.25	1.01
23:c:6026:CLA:H203	23:c:6026:CLA:ND	1.75	1.01
30:c:6056:DGD:CAB	30:c:6056:DGD:HB61	1.90	1.01
4:d:5148:ALA:HB2	4:d:5276:VAL:HG13	1.41	1.01
23:A:1003:CLA:H172	24:A:1038:PHO:H43	1.42	1.01
2:B:221:PRO:HA	23:H:1017:CLA:HED2	1.39	1.01
23:B:1011:CLA:H192	23:H:1017:CLA:H121	1.39	1.01
3:C:223:TRP:HB3	3:C:224:ILE:HD13	1.41	1.01
10:K:32:PHE:CD1	26:K:1052:BCR:H392	1.95	1.01
23:a:6003:CLA:H172	24:d:6038:PHO:H43	1.42	1.01
23:c:6036:CLA:H172	23:c:6036:CLA:C14	1.90	1.01
29:d:6062:MGE:H1G1	11:l:5019:LEU:CD2	1.90	1.01
23:C:1026:CLA:H203	23:C:1026:CLA:ND	1.75	1.01
10:K:33:PHE:C	10:K:33:PHE:HD1	1.64	1.01
23:b:6009:CLA:H2A	23:b:6009:CLA:HED3	1.38	1.01
23:b:6011:CLA:HHD	23:b:6014:CLA:HBB2	1.43	1.01
23:b:6020:CLA:C12	23:b:6020:CLA:C9	2.37	1.01
26:d:6050:BCR:H282	29:d:6059:MGE:H212	1.42	1.01
26:t:1046:BCR:C37	26:t:1046:BCR:H382	1.90	1.01
20:z:5009:LEU:HD13	20:z:5010:ALA:N	1.76	1.01
26:z:6053:BCR:H382	26:z:6053:BCR:C23	1.88	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:PRO:HA	1:A:68:SER:HB2	1.43	1.01
27:A:1063:LHG:H322	23:C:1034:CLA:H142	1.40	1.01
2:B:64:PRO:HB2	2:B:268:PHE:HE2	1.22	1.01
23:C:1025:CLA:C16	23:C:1031:CLA:HMB3	1.91	1.01
23:b:6011:CLA:CAD	23:b:6013:CLA:H43	1.91	1.01
23:b:6022:CLA:H72	23:b:6022:CLA:H142	1.39	1.01
23:d:6008:CLA:C4	23:d:6008:CLA:C7	2.38	1.01
12:m:5008:PHE:O	12:m:5008:PHE:HD1	1.41	1.01
23:B:1013:CLA:HMC1	23:B:1023:CLA:H11	1.43	1.01
23:B:1016:CLA:H142	23:D:1008:CLA:CMB	1.89	1.01
23:B:1019:CLA:HHC	23:B:1019:CLA:CBB	1.86	1.01
26:B:1047:BCR:H321	26:B:1047:BCR:H343	1.30	1.01
23:C:1031:CLA:H171	23:C:1031:CLA:H141	1.42	1.01
23:D:1005:CLA:C20	23:D:1005:CLA:C15	2.34	1.01
13:O:111:LEU:HD13	13:O:121:PHE:HB2	1.41	1.01
23:A:1006:CLA:H171	26:D:1050:BCR:C30	1.91	1.00
27:A:1063:LHG:O4	27:A:1063:LHG:HC61	1.61	1.00
23:B:1020:CLA:C13	23:B:1020:CLA:C8	2.35	1.00
23:C:1031:CLA:O1D	23:C:1033:CLA:H101	1.60	1.00
26:T:6046:BCR:C35	26:b:6047:BCR:H383	1.91	1.00
23:b:6014:CLA:HBB1	23:b:6014:CLA:CMB	1.88	1.00
23:b:6019:CLA:HBB1	23:b:6019:CLA:HHC	1.05	1.00
7:h:5035:MET:HG2	26:h:6049:BCR:H333	1.41	1.00
1:A:81:ALA:CB	1:A:175:GLY:HA3	1.90	1.00
2:B:27:THR:HG21	23:B:1020:CLA:H11	1.40	1.00
2:B:460:LEU:CA	30:H:1058:DGD:HAG1	1.90	1.00
30:C:1056:DGD:CAB	30:C:1056:DGD:HB61	1.90	1.00
4:D:209:LEU:HD22	25:D:1042:PQ9:H192	1.41	1.00
12:M:34:LYS:HG3	11:l:5009:PRO:HB3	1.41	1.00
24:A:1038:PHO:H141	24:A:1038:PHO:H193	1.12	1.00
2:B:456:ALA:HA	30:H:1058:DGD:CIB	1.92	1.00
23:B:1019:CLA:C19	23:B:1021:CLA:H52	1.90	1.00
26:T:6046:BCR:H352	26:b:6047:BCR:H23C	1.40	1.00
1:a:5091:LEU:HD13	1:a:5167:SER:HA	1.37	1.00
1:a:5215:HIS:O	1:a:5219:VAL:HG12	1.62	1.00
1:a:5269:ARG:HH21	4:d:5243:THR:CB	1.73	1.00
23:b:6011:CLA:C3D	23:b:6013:CLA:C4	2.39	1.00
23:b:6014:CLA:CBA	23:b:6014:CLA:CMA	2.29	1.00
3:c:5088:LEU:HD21	23:c:6027:CLA:HBC2	1.43	1.00
23:c:6034:CLA:CED	10:k:5029:PRO:HG2	1.89	1.00
24:d:6038:PHO:CHD	24:d:6038:PHO:HBC2	1.91	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:T:6046:BCR:C37	26:T:6046:BCR:H382	1.91	1.00
1:a:5280:VAL:HA	1:a:5283:VAL:CG1	1.89	1.00
3:c:5282:MET:HG2	23:c:6025:CLA:H71	1.42	1.00
23:B:1019:CLA:HBB1	23:B:1019:CLA:CHC	1.84	1.00
23:a:6006:CLA:C17	26:d:6050:BCR:C29	2.30	1.00
23:B:1014:CLA:H151	23:B:1014:CLA:H193	1.00	1.00
26:B:1047:BCR:H383	26:B:1047:BCR:C23	1.92	1.00
23:C:1029:CLA:CMA	23:C:1029:CLA:CBA	2.30	1.00
23:b:6012:CLA:C1	23:b:6013:CLA:C2	2.39	1.00
3:c:5160:ILE:HG22	3:c:5164:HIS:HE1	1.27	1.00
26:K:1051:BCR:C32	26:K:1052:BCR:C10	2.39	1.00
1:A:278:TRP:CE3	1:A:278:TRP:HA	1.95	0.99
23:C:1036:CLA:H172	23:C:1036:CLA:C14	1.90	0.99
20:Z:55:GLY:HA2	26:Z:1053:BCR:H311	1.40	0.99
4:D:49:LEU:HD21	29:J:1059:MGE:H7A1	1.44	0.99
23:D:1008:CLA:C4	23:D:1008:CLA:C7	2.39	0.99
6:F:41:GLN:HE22	9:J:27:LEU:C	1.69	0.99
1:a:5140:ARG:HH22	27:a:6063:LHG:HC2	1.27	0.99
26:a:6044:BCR:C40	26:a:6044:BCR:C37	2.30	0.99
5:e:5027:ILE:HB	5:e:5028:PRO:HD3	1.39	0.99
24:A:1038:PHO:HBC2	24:A:1038:PHO:CHD	1.90	0.99
23:B:1012:CLA:H101	23:B:1023:CLA:H42	1.43	0.99
1:a:5219:VAL:HG21	4:d:5268:HIS:CE1	1.97	0.99
26:b:6045:BCR:C39	26:b:6045:BCR:C37	2.30	0.99
26:K:1051:BCR:C40	26:K:1051:BCR:C37	2.30	0.99
1:a:5223:LEU:HD21	1:a:5245:THR:OG1	1.62	0.99
23:c:6031:CLA:O1D	23:c:6033:CLA:H101	1.60	0.99
1:a:5278:TRP:CE3	1:a:5278:TRP:HA	1.95	0.99
23:a:6006:CLA:C17	26:d:6050:BCR:H401	1.92	0.99
27:a:6063:LHG:HC61	27:a:6063:LHG:O4	1.61	0.99
23:b:6013:CLA:HBB2	23:b:6023:CLA:H41	1.45	0.99
3:c:5045:LEU:HD22	3:c:5140:LEU:H	1.24	0.99
20:z:5055:GLY:HA2	26:z:6053:BCR:H311	1.42	0.99
26:D:1050:BCR:C39	26:D:1050:BCR:C37	2.30	0.99
23:b:6017:CLA:HBB1	26:h:6049:BCR:H323	1.44	0.99
24:d:6038:PHO:CAD	24:d:6038:PHO:CED	2.40	0.99
26:A:1044:BCR:C40	26:A:1044:BCR:C37	2.30	0.99
23:B:1020:CLA:C12	23:B:1020:CLA:C9	2.37	0.99
26:B:1047:BCR:H23C	26:B:1047:BCR:C38	1.85	0.99
13:O:65:ARG:CZ	13:O:66:ILE:H	1.74	0.99
23:b:6014:CLA:H151	23:b:6014:CLA:H193	1.00	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1015:CLA:H18	29:B:1060:MGE:H8A1	1.43	0.99
12:M:9:ILE:HD11	12:m:5009:ILE:HD11	0.99	0.99
2:b:5462:GLY:H	23:b:6019:CLA:CBC	1.75	0.99
23:b:6013:CLA:HMC1	23:b:6023:CLA:H11	1.43	0.99
3:c:5061:VAL:HG21	3:c:5125:LEU:HD11	1.02	0.99
23:c:6025:CLA:H162	23:c:6031:CLA:HMB2	1.42	0.99
10:K:28:ILE:HD13	26:K:1051:BCR:HC7	1.45	0.99
1:a:5219:VAL:HG11	4:d:5268:HIS:CB	1.93	0.99
23:B:1011:CLA:C3D	23:B:1013:CLA:C4	2.39	0.99
3:c:5223:TRP:HB3	3:c:5224:ILE:HD13	1.45	0.99
30:C:1056:DGD:HBF1	30:C:1056:DGD:HBG2	1.43	0.98
10:K:32:PHE:CD1	26:K:1052:BCR:C39	2.45	0.98
2:b:5009:LEU:HD13	2:b:5016:LEU:HA	1.45	0.98
4:d:5103:ARG:HG2	5:e:5073:LYS:HG3	1.45	0.98
24:d:6038:PHO:C19	24:d:6038:PHO:C14	2.30	0.98
1:A:199:GLN:CD	1:A:200:LEU:HG	1.87	0.98
26:A:1044:BCR:C39	26:A:1044:BCR:C37	2.30	0.98
2:B:223:GLN:HG3	2:B:224:ARG:H	1.27	0.98
23:B:1011:CLA:CAD	23:B:1013:CLA:H43	1.91	0.98
14:T:18:PHE:CD1	26:T:6046:BCR:H343	1.97	0.98
26:Z:1053:BCR:H382	26:Z:1053:BCR:C23	1.88	0.98
30:c:6056:DGD:HB51	9:j:5029:PHE:HE1	1.28	0.98
26:k:6051:BCR:C40	26:k:6051:BCR:C37	2.30	0.98
1:A:203:ALA:HA	23:A:1006:CLA:O1A	1.59	0.98
23:D:1008:CLA:H41	23:D:1008:CLA:C7	1.92	0.98
1:a:5310:LYS:HB2	16:v:5028:GLU:HG3	1.43	0.98
2:b:5322:PHE:CE1	11:l:5034:TYR:HB3	1.97	0.98
2:b:5416:SER:HA	2:b:5419:ARG:HH12	1.26	0.98
4:d:5328:TRP:CZ3	16:v:5161:VAL:HA	1.97	0.98
26:B:1045:BCR:C39	26:B:1045:BCR:C37	2.30	0.98
26:D:1050:BCR:H282	29:J:1059:MGE:H212	1.42	0.98
26:D:1050:BCR:H281	29:J:1059:MGE:H9B2	1.45	0.98
23:c:6033:CLA:H18	23:c:6033:CLA:H141	0.99	0.98
7:H:35:MET:CG	26:H:1049:BCR:H333	1.93	0.98
2:b:5218:PRO:HA	23:b:6017:CLA:HED2	1.45	0.98
23:b:6019:CLA:O1A	23:b:6019:CLA:H3A	1.62	0.98
26:b:6047:BCR:H383	26:b:6047:BCR:C23	1.92	0.98
4:d:5195:PRO:HA	4:d:5198:MET:HE2	1.46	0.98
1:A:97:TRP:HA	8:I:1:MET:SD	2.03	0.98
23:A:1006:CLA:C17	26:D:1050:BCR:C40	2.41	0.98
24:A:1038:PHO:H193	24:A:1038:PHO:C15	1.92	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1014:CLA:H122	23:B:1014:CLA:H91	0.98	0.98
26:B:1048:BCR:H383	26:B:1048:BCR:C23	1.85	0.98
23:C:1034:CLA:HHD	23:C:1034:CLA:CBC	1.93	0.98
30:c:6057:DGD:HAS1	29:d:6059:MGE:CCB	1.94	0.98
11:L:23:LEU:O	11:L:27:LEU:HB2	1.63	0.98
16:v:5067:HIS:HA	16:v:5071:ILE:C	1.89	0.98
23:C:1034:CLA:H121	23:C:1034:CLA:H91	1.00	0.98
23:H:1017:CLA:HHD	23:H:1017:CLA:CBC	1.93	0.98
24:d:6038:PHO:HBC2	24:d:6038:PHO:HHD	1.45	0.98
2:B:253:ALA:HB2	2:B:455:HIS:CB	1.93	0.98
23:B:1022:CLA:H142	23:B:1022:CLA:C10	1.92	0.98
23:b:6017:CLA:HHD	23:b:6017:CLA:CBC	1.93	0.98
24:A:1038:PHO:CAD	24:A:1038:PHO:CED	2.40	0.98
23:B:1012:CLA:HHC	23:B:1012:CLA:HBB1	1.42	0.98
23:B:1019:CLA:O1A	23:B:1019:CLA:H3A	1.62	0.98
23:H:1017:CLA:HBB1	26:H:1049:BCR:H323	1.44	0.98
2:B:464:PHE:HZ	29:B:1060:MGE:H4B2	1.21	0.97
23:B:1014:CLA:CBA	23:B:1014:CLA:CMA	2.29	0.97
26:K:1052:BCR:H23C	26:K:1052:BCR:C38	1.90	0.97
26:d:6050:BCR:C40	26:d:6050:BCR:C37	2.30	0.97
23:a:6006:CLA:CED	30:c:6057:DGD:HBH2	1.94	0.97
23:b:6012:CLA:HED2	23:b:6012:CLA:C2A	1.93	0.97
23:b:6022:CLA:H142	23:b:6022:CLA:C10	1.92	0.97
10:k:5032:PHE:CE2	26:k:6052:BCR:C20	2.46	0.97
4:D:17:ILE:HG22	17:X:41:SER:HB3	1.46	0.97
13:O:127:ILE:HD12	13:O:127:ILE:N	1.79	0.97
23:b:6011:CLA:CBB	23:b:6013:CLA:C17	2.43	0.97
25:d:6042:PQ9:H441	11:l:5029:LEU:HD23	1.46	0.97
26:d:6050:BCR:C39	26:d:6050:BCR:C37	2.30	0.97
24:A:1038:PHO:HED3	24:A:1038:PHO:C4D	1.95	0.97
3:C:63:TRP:HZ3	23:C:1027:CLA:HBC1	0.84	0.97
20:z:5053:VAL:O	20:z:5057:LEU:HB2	1.65	0.97
2:B:385:ARG:HD3	15:U:44:ASP:HB3	1.44	0.97
23:C:1033:CLA:H18	23:C:1033:CLA:H141	0.99	0.97
30:C:1056:DGD:HG12	30:C:1056:DGD:HB21	1.47	0.97
6:F:37:ILE:HG21	9:J:28:PHE:CZ	1.99	0.97
26:T:6046:BCR:C12	26:b:6047:BCR:H381	1.94	0.97
14:t:5001:MET:N	14:t:5004:ILE:HB	1.78	0.97
2:b:5211:LEU:O	2:b:5214:ILE:HG22	1.62	0.97
23:c:6034:CLA:C7	23:c:6034:CLA:C4	2.30	0.97
16:v:5120:SER:H	16:v:5123:SER:HB2	1.29	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1012:CLA:C1	23:B:1013:CLA:H2	1.95	0.97
3:C:99:VAL:HG11	3:C:196:VAL:HB	1.47	0.97
23:C:1030:CLA:HMC2	23:C:1031:CLA:C10	1.94	0.97
27:a:6063:LHG:H161	27:a:6063:LHG:C12	1.95	0.97
23:c:6027:CLA:HBA1	23:c:6027:CLA:CHA	1.92	0.97
24:d:6038:PHO:C4D	24:d:6038:PHO:HED3	1.95	0.97
2:B:256:MET:HE1	2:B:448:ARG:NH1	1.80	0.97
23:B:1011:CLA:HHD	23:B:1014:CLA:HBB2	1.43	0.97
23:B:1013:CLA:HBB2	23:B:1023:CLA:H41	1.45	0.97
23:C:1027:CLA:CHA	23:C:1027:CLA:HBA1	1.93	0.97
23:c:6036:CLA:C17	26:z:6053:BCR:H373	1.95	0.97
5:e:5030:LEU:HD12	6:f:5031:ILE:HG23	1.45	0.97
2:B:256:MET:CE	2:B:448:ARG:NH1	2.28	0.97
1:a:5219:VAL:CG2	4:d:5268:HIS:CG	2.48	0.97
1:a:5297:LEU:HD12	3:c:5428:THR:HG21	1.43	0.97
2:b:5451:ALA:C	2:b:5453:ALA:H	1.63	0.97
23:c:6031:CLA:C14	23:c:6031:CLA:C17	2.36	0.97
26:K:1051:BCR:C32	26:K:1052:BCR:H10C	1.93	0.97
23:b:6015:CLA:H18	29:b:6060:MGE:C8A	1.94	0.97
26:k:6051:BCR:C32	26:k:6052:BCR:H10C	1.94	0.97
17:x:5026:GLY:O	17:x:5029:VAL:HG12	1.64	0.97
18:y:5013:ALA:O	18:y:5017:ILE:HG23	1.63	0.97
2:B:222:PRO:HG2	2:B:225:LEU:HD12	1.47	0.96
3:C:99:VAL:HG21	3:C:196:VAL:HG11	1.43	0.96
26:K:1051:BCR:C39	26:K:1051:BCR:C37	2.30	0.96
26:T:6046:BCR:H352	26:b:6047:BCR:H383	0.99	0.96
1:a:5057:PRO:HA	1:a:5068:SER:HB2	1.45	0.96
3:c:5256:PRO:HB3	3:c:5261:ARG:NH2	1.78	0.96
23:B:1011:CLA:H192	23:H:1017:CLA:C12	1.95	0.96
27:a:6063:LHG:H291	23:c:6032:CLA:H8	1.47	0.96
26:h:6049:BCR:H403	26:h:6049:BCR:C23	1.95	0.96
23:B:1020:CLA:H52	23:B:1020:CLA:O2A	1.62	0.96
23:C:1025:CLA:C4	23:C:1025:CLA:C2B	2.43	0.96
23:b:6020:CLA:H52	23:b:6020:CLA:O2A	1.62	0.96
26:b:6045:BCR:C40	26:b:6045:BCR:C37	2.30	0.96
12:m:5008:PHE:C	12:m:5008:PHE:HD1	1.69	0.96
1:A:150:PRO:HA	23:A:1003:CLA:C4	1.95	0.96
1:A:219:VAL:HB	4:D:268:HIS:ND1	1.80	0.96
23:b:6020:CLA:C1	23:b:6023:CLA:HED1	1.95	0.96
23:c:6033:CLA:HHD	23:c:6033:CLA:CBC	1.95	0.96
24:d:6038:PHO:C19	24:d:6038:PHO:H152	1.94	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:257:TRP:CZ2	4:D:291:LEU:HD12	2.00	0.96
23:B:1020:CLA:C1	23:B:1023:CLA:HED1	1.95	0.96
23:C:1033:CLA:HHD	23:C:1033:CLA:CBC	1.95	0.96
23:C:1036:CLA:C17	26:Z:1053:BCR:H373	1.95	0.96
30:C:1057:DGD:HAS1	29:J:1059:MGE:CCB	1.94	0.96
30:c:6056:DGD:HBG2	30:c:6056:DGD:HBF1	1.43	0.96
13:O:223:ILE:HG12	13:O:224:SER:H	1.27	0.96
1:a:5097:TRP:HA	8:i:5001:MET:HE2	1.44	0.96
23:a:6006:CLA:HMB1	24:a:6039:PHO:C16	1.96	0.96
2:b:5321:LEU:HA	4:d:5293:LEU:HD13	1.46	0.96
23:b:6012:CLA:H101	23:b:6023:CLA:H42	1.44	0.96
23:b:6014:CLA:H122	23:b:6014:CLA:H91	0.98	0.96
26:d:6050:BCR:H281	29:d:6059:MGE:H9B2	1.45	0.96
27:A:1063:LHG:H271	23:C:1032:CLA:H8	1.48	0.96
2:B:464:PHE:CE2	29:B:1060:MGE:H4B2	2.01	0.96
23:B:1012:CLA:H11	23:B:1013:CLA:H2	1.45	0.96
9:j:5009:PRO:HG2	9:j:5012:ILE:HB	1.48	0.96
23:B:1011:CLA:CBB	23:B:1013:CLA:C17	2.43	0.96
4:D:98:GLN:HE21	5:E:73:LYS:HE3	1.31	0.96
23:b:6022:CLA:C7	23:b:6022:CLA:C13	2.44	0.96
3:c:5045:LEU:HD21	3:c:5141:GLU:HG2	1.45	0.96
23:c:6025:CLA:C4	23:c:6025:CLA:C2B	2.43	0.96
1:A:278:TRP:HA	1:A:278:TRP:HE3	1.30	0.96
23:B:1012:CLA:HED2	23:B:1012:CLA:C2A	1.95	0.96
3:C:51:GLY:HA3	3:C:132:HIS:HB2	1.46	0.96
1:a:5219:VAL:HG21	4:d:5268:HIS:NE2	1.81	0.96
4:d:5261:PHE:HE1	25:d:6042:PQ9:H143	1.30	0.96
2:B:354:LEU:HB3	2:B:370:LEU:HD22	1.47	0.96
2:b:5218:PRO:HD2	7:h:5020:LYS:HE2	1.47	0.95
23:b:6011:CLA:H192	23:b:6017:CLA:C12	1.95	0.95
23:b:6024:CLA:HBC2	23:b:6024:CLA:CMC	1.96	0.95
23:c:6030:CLA:HMC2	23:c:6031:CLA:C10	1.94	0.95
4:d:5254:SER:HB2	14:t:5024:ARG:HH12	1.30	0.95
23:C:1028:CLA:HHC	23:C:1028:CLA:HBB1	1.48	0.95
23:c:6031:CLA:CGD	23:c:6033:CLA:C10	2.43	0.95
23:A:1006:CLA:CED	30:C:1057:DGD:HBH2	1.94	0.95
24:A:1038:PHO:C19	24:A:1038:PHO:H152	1.94	0.95
2:B:380:ASP:OD2	4:D:345:VAL:HG22	1.66	0.95
27:A:1063:LHG:H161	27:A:1063:LHG:C12	1.95	0.95
2:B:25:MET:HG3	26:B:1045:BCR:C29	1.96	0.95
4:D:164:GLN:HG3	4:D:165:SER:H	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1012:CLA:H11	23:B:1013:CLA:C2	1.97	0.95
26:K:1051:BCR:C8	26:K:1051:BCR:C33	2.44	0.95
13:O:148:VAL:HG12	13:O:151:LEU:HB2	1.49	0.95
2:b:5022:MET:HG3	26:b:6045:BCR:C29	1.97	0.95
2:b:5103:LEU:HD11	26:b:6048:BCR:C35	1.94	0.95
23:c:6033:CLA:H93	23:c:6033:CLA:H51	1.48	0.95
29:d:6062:MGE:H241	14:t:5013:ILE:HG21	1.46	0.95
1:A:76:ASN:OD1	11:L:33:SER:HB3	1.66	0.95
23:C:1033:CLA:H51	23:C:1033:CLA:H93	1.48	0.95
4:D:261:PHE:HE2	4:D:266:TRP:HD1	1.10	0.95
1:a:5219:VAL:CG1	4:d:5268:HIS:CB	2.44	0.95
23:b:6011:CLA:C4	23:b:6013:CLA:H91	1.97	0.95
3:c:5159:THR:HG23	3:c:5252:ILE:HA	1.48	0.95
13:o:5179:THR:HG22	13:o:5180:ALA:N	1.81	0.95
23:B:1009:CLA:HMB1	26:H:1049:BCR:H393	1.48	0.95
23:C:1034:CLA:H102	23:C:1034:CLA:H43	1.43	0.95
30:C:1055:DGD:HA72	30:C:1055:DGD:HAE1	1.48	0.95
1:a:5149:ALA:HB1	1:a:5283:VAL:HG21	1.45	0.95
23:b:6023:CLA:C4C	23:b:6024:CLA:HBC1	1.96	0.95
30:c:6055:DGD:HA72	30:c:6055:DGD:HAE1	1.48	0.95
23:B:1022:CLA:H72	23:B:1022:CLA:C17	1.97	0.95
16:V:160:LYS:NZ	16:V:160:LYS:CB	2.30	0.95
23:b:6015:CLA:H18	29:b:6060:MGE:H8A1	1.44	0.95
24:A:1038:PHO:HBC2	24:A:1038:PHO:HHD	1.45	0.95
23:B:1022:CLA:C7	23:B:1022:CLA:C13	2.44	0.95
23:c:6034:CLA:H102	23:c:6034:CLA:H43	1.44	0.95
10:k:5019:ASP:HA	10:k:5022:VAL:HG12	1.49	0.95
27:A:1063:LHG:H291	23:C:1032:CLA:H8	1.47	0.95
3:C:63:TRP:CZ3	23:C:1027:CLA:CBC	2.46	0.95
30:C:1056:DGD:CEB	30:C:1056:DGD:CIB	2.44	0.95
10:k:5028:ILE:HD11	18:y:5010:ILE:HD12	1.48	0.95
23:B:1012:CLA:HHD	23:B:1012:CLA:HBC3	1.46	0.94
23:B:1016:CLA:C5	23:H:1017:CLA:H101	1.96	0.94
6:F:40:MET:HB3	29:J:1059:MGE:O5D	1.67	0.94
1:a:5269:ARG:HH11	4:d:5231:THR:HG23	1.28	0.94
2:b:5460:PHE:CE1	23:b:6016:CLA:HBB1	2.02	0.94
24:d:6038:PHO:C19	24:d:6038:PHO:C15	2.45	0.94
23:A:1003:CLA:C14	24:A:1038:PHO:H91	1.96	0.94
2:B:135:LEU:H	2:B:135:LEU:HD12	1.31	0.94
23:B:1011:CLA:C4	23:B:1013:CLA:H91	1.97	0.94
23:B:1014:CLA:H111	26:B:1048:BCR:H10C	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:281:MET:HA	4:D:281:MET:HE3	1.46	0.94
26:H:1049:BCR:H403	26:H:1049:BCR:C23	1.95	0.94
23:a:6003:CLA:CAB	23:a:6006:CLA:CMD	2.45	0.94
1:A:29:TYR:HE2	1:A:132:GLU:HB3	1.30	0.94
23:B:1014:CLA:H112	23:B:1014:CLA:H161	0.96	0.94
26:K:1052:BCR:H382	26:K:1052:BCR:C23	1.97	0.94
23:b:6014:CLA:H112	23:b:6014:CLA:H161	0.96	0.94
23:A:1006:CLA:HMB1	24:A:1039:PHO:C16	1.96	0.94
23:B:1019:CLA:HED2	23:B:1019:CLA:HAA2	0.95	0.94
23:C:1031:CLA:CGD	23:C:1033:CLA:C10	2.43	0.94
16:V:120:SER:H	16:V:123:SER:HB2	1.32	0.94
31:e:6040:HEM:CHD	6:f:5020:TRP:HE1	1.79	0.94
23:A:1003:CLA:CAB	23:A:1006:CLA:CMD	2.45	0.94
23:B:1019:CLA:H193	23:B:1021:CLA:C7	1.97	0.94
23:B:1023:CLA:C4C	23:B:1024:CLA:HBC1	1.96	0.94
23:b:6022:CLA:C9	23:b:6022:CLA:C5	2.30	0.94
30:c:6056:DGD:HG12	30:c:6056:DGD:HB21	1.47	0.94
23:C:1028:CLA:H121	23:C:1028:CLA:H172	0.94	0.94
23:C:1031:CLA:C14	23:C:1031:CLA:C17	2.36	0.94
11:L:12:LEU:HD12	12:M:26:TYR:HA	1.47	0.94
23:b:6009:CLA:HMB1	26:h:6049:BCR:H393	1.48	0.94
23:b:6020:CLA:C9	23:b:6020:CLA:C14	2.43	0.94
23:b:6022:CLA:H72	23:b:6022:CLA:C17	1.97	0.94
30:c:6056:DGD:HBF1	30:c:6056:DGD:CIB	1.97	0.94
1:A:140:ARG:HH22	27:A:1063:LHG:HC2	1.30	0.94
24:A:1038:PHO:H143	24:A:1038:PHO:C10	1.98	0.94
26:C:1054:BCR:C38	26:C:1054:BCR:C23	2.37	0.94
26:K:1051:BCR:H371	26:K:1051:BCR:H392	1.31	0.94
23:c:6028:CLA:H121	23:c:6028:CLA:H172	0.94	0.94
2:B:99:ALA:HB1	23:B:1014:CLA:H2	1.49	0.94
23:C:1025:CLA:H202	23:C:1025:CLA:H151	1.50	0.94
23:b:6023:CLA:CHD	23:b:6024:CLA:HBC1	1.97	0.94
3:c:5048:LYS:HD2	3:c:5133:ALA:O	1.68	0.94
23:c:6033:CLA:C14	23:c:6033:CLA:C18	2.37	0.94
23:c:6035:CLA:H142	10:k:5032:PHE:CE1	2.03	0.94
30:c:6056:DGD:HB61	30:c:6056:DGD:HBT2	1.49	0.94
30:c:6056:DGD:CIB	30:c:6056:DGD:CEB	2.44	0.94
26:k:6052:BCR:H23C	26:k:6052:BCR:C38	1.91	0.94
16:v:5090:PRO:HD2	16:v:5092:ARG:HH21	1.33	0.94
24:A:1038:PHO:C19	24:A:1038:PHO:C15	2.45	0.94
23:B:1011:CLA:C19	23:H:1017:CLA:H13	1.98	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6014:CLA:H111	26:b:6048:BCR:H10C	1.49	0.94
1:A:96:ILE:HA	1:A:105:TRP:CD1	2.02	0.94
2:B:17:GLY:HA2	2:B:123:PHE:HE2	1.32	0.94
23:B:1012:CLA:C1	23:B:1013:CLA:C2	2.44	0.94
26:a:6044:BCR:H392	26:a:6044:BCR:H373	1.50	0.94
23:b:6019:CLA:H193	23:b:6021:CLA:C7	1.97	0.94
3:c:5076:ILE:HG23	3:c:5077:PRO:HD2	1.50	0.94
23:B:1011:CLA:HMD1	23:B:1014:CLA:CBB	1.98	0.93
3:C:139:THR:HG22	3:C:141:GLU:H	1.33	0.93
30:C:1056:DGD:HBF1	30:C:1056:DGD:CIB	1.97	0.93
1:a:5095:PRO:HA	23:a:6007:CLA:CED	1.97	0.93
1:a:5273:PHE:CD2	4:d:5219:GLU:CB	2.50	0.93
27:a:6063:LHG:H271	23:c:6032:CLA:H8	1.47	0.93
23:b:6016:CLA:C5	23:b:6017:CLA:H101	1.96	0.93
23:c:6034:CLA:HBC3	23:c:6034:CLA:CHD	1.96	0.93
1:A:279:ARG:HD3	4:D:208:ALA:HB1	1.50	0.93
23:C:1033:CLA:C14	23:C:1033:CLA:C18	2.36	0.93
12:M:1:MET:HE2	12:M:1:MET:H1	1.12	0.93
1:a:5078:ILE:HA	1:a:5176:ILE:HD12	1.49	0.93
23:a:6003:CLA:C14	24:d:6038:PHO:H91	1.96	0.93
23:b:6011:CLA:C19	23:b:6017:CLA:H13	1.98	0.93
23:b:6022:CLA:H142	23:b:6022:CLA:H101	1.50	0.93
23:b:6023:CLA:C12	23:b:6023:CLA:C9	2.45	0.93
11:l:5017:LEU:C	11:l:5017:LEU:CD1	2.36	0.93
13:o:5105:ASP:O	13:o:5127:ILE:HD11	1.68	0.93
23:C:1025:CLA:HBA2	23:C:1025:CLA:O1D	1.67	0.93
26:Z:1053:BCR:H23C	26:Z:1053:BCR:H382	0.95	0.93
30:c:6056:DGD:HD62	30:c:6056:DGD:C5E	1.98	0.93
4:d:5106:GLN:HE21	5:e:5048:GLY:HA3	1.33	0.93
24:d:6038:PHO:H143	24:d:6038:PHO:C10	1.98	0.93
23:C:1025:CLA:C20	23:C:1031:CLA:H121	1.99	0.93
30:C:1056:DGD:HD62	30:C:1056:DGD:C5E	1.98	0.93
10:K:32:PHE:HE1	26:K:1052:BCR:C24	1.81	0.93
3:c:5061:VAL:CB	3:c:5125:LEU:CD1	2.46	0.93
23:c:6025:CLA:H202	23:c:6025:CLA:H151	1.50	0.93
23:B:1023:CLA:CHD	23:B:1024:CLA:HBC1	1.97	0.93
23:C:1037:CLA:CBA	23:C:1037:CLA:CGD	2.47	0.93
23:b:6019:CLA:HED2	23:b:6019:CLA:HAA2	0.95	0.93
4:d:5264:LYS:HD3	4:d:5268:HIS:CE1	2.03	0.93
16:v:5159:GLY:O	16:v:5160:LYS:HG3	1.68	0.93
16:v:5160:LYS:HB3	16:v:5160:LYS:HZ2	1.16	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:z:6053:BCR:H23C	26:z:6053:BCR:H382	0.95	0.93
30:C:1056:DGD:HB61	30:C:1056:DGD:HBT2	1.48	0.93
20:Z:61:VAL:HG23	20:Z:62:VAL:H	1.33	0.93
1:a:5278:TRP:HA	1:a:5278:TRP:HE3	1.31	0.93
23:c:6028:CLA:HHC	23:c:6028:CLA:HBB1	1.48	0.93
17:x:5035:ALA:HA	17:x:5038:ILE:HD11	1.49	0.93
23:B:1014:CLA:HBB1	23:B:1014:CLA:CMB	1.88	0.93
23:a:6007:CLA:HBC2	23:a:6007:CLA:CHD	1.99	0.93
2:b:5320:GLY:HA3	2:b:5323:ARG:HH11	1.31	0.93
23:b:6016:CLA:HHD	23:b:6016:CLA:HBC2	1.51	0.93
2:B:464:PHE:HB2	4:D:280:TRP:CZ2	2.04	0.93
4:D:303:ILE:HD12	4:D:304:ARG:N	1.84	0.93
12:M:28:GLN:HA	12:m:5028:GLN:HA	1.51	0.93
27:A:1063:LHG:H312	23:C:1034:CLA:H91	1.50	0.93
30:C:1055:DGD:HAE1	30:C:1055:DGD:C7A	1.99	0.93
12:M:1:MET:N	12:M:1:MET:CE	2.30	0.93
1:a:5095:PRO:HG2	1:a:5098:GLU:HG2	1.51	0.93
1:a:5271:LEU:O	1:a:5272:HIS:HB2	1.68	0.93
2:b:5003:TYR:HD2	2:b:5003:TYR:N	1.66	0.93
2:b:5426:ILE:H	2:b:5426:ILE:HD12	1.33	0.93
23:c:6025:CLA:O1D	23:c:6025:CLA:HBA2	1.67	0.93
3:C:203:THR:HG21	3:C:232:ASP:HA	1.48	0.93
3:C:256:PRO:HB3	3:C:261:ARG:HH21	1.31	0.93
12:M:9:ILE:CG1	12:m:5009:ILE:CG1	2.41	0.93
13:O:188:ARG:HD3	13:O:197:ALA:H	1.32	0.93
2:b:5461:PHE:HZ	29:b:6060:MGE:H4B2	1.30	0.93
3:c:5190:ALA:HB3	3:c:5193:GLY:O	1.68	0.93
23:c:6034:CLA:H121	23:c:6034:CLA:H91	0.94	0.93
23:c:6037:CLA:CGD	23:c:6037:CLA:CBA	2.47	0.93
10:k:5034:ALA:CB	26:k:6051:BCR:C19	2.46	0.93
3:C:259:TRP:O	3:C:262:ARG:HG2	1.69	0.92
26:C:1054:BCR:H23C	26:C:1054:BCR:H382	1.51	0.92
11:L:9:PRO:HB3	12:m:5034:LYS:HG3	1.49	0.92
5:e:5017:VAL:HG13	9:j:5007:ARG:N	1.82	0.92
8:i:5031:ASN:HB2	8:i:5032:PRO:HD2	1.50	0.92
7:H:53:LEU:HG	7:H:55:LEU:HD11	1.50	0.92
26:a:6044:BCR:H403	26:a:6044:BCR:H372	1.51	0.92
8:I:6:ILE:H	8:I:6:ILE:HD13	1.34	0.92
1:A:188:ALA:HB2	1:A:328:MET:HG3	1.50	0.92
23:B:1013:CLA:CMC	23:B:1023:CLA:H11	1.99	0.92
23:b:6013:CLA:CMC	23:b:6023:CLA:H11	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:c:6033:CLA:CMA	23:c:6033:CLA:CBA	2.44	0.92
30:c:6056:DGD:C3E	30:c:6056:DGD:C6D	2.45	0.92
16:v:5111:GLU:HG3	16:v:5112:GLN:H	1.33	0.92
2:B:325:PHE:CE1	11:L:34:TYR:HB3	2.03	0.92
23:B:1015:CLA:H18	29:B:1060:MGE:C8A	1.99	0.92
23:B:1020:CLA:OBD	23:B:1020:CLA:HED2	1.70	0.92
4:D:43:LEU:HD22	4:D:43:LEU:H	1.35	0.92
1:a:5192:ILE:HG13	1:a:5293:MET:HE1	1.52	0.92
23:c:6028:CLA:HHD	23:c:6028:CLA:HBC2	1.51	0.92
23:B:1011:CLA:H172	23:B:1016:CLA:HBC1	1.50	0.92
3:C:75:PHE:HE2	3:C:105:VAL:HG11	1.33	0.92
3:C:184:GLY:HA3	3:C:198:VAL:HA	1.49	0.92
4:d:5284:ILE:O	4:d:5287:VAL:HG22	1.70	0.92
23:B:1020:CLA:C14	23:B:1020:CLA:C9	2.43	0.92
23:B:1022:CLA:H93	23:B:1022:CLA:C4	1.99	0.92
1:a:5075:ASN:ND2	14:t:5002:GLU:HG2	1.84	0.92
23:b:6011:CLA:HMD1	23:b:6014:CLA:CBB	1.98	0.92
23:c:6029:CLA:CBA	23:c:6029:CLA:HMA3	1.98	0.92
1:A:210:LEU:HD23	23:A:1006:CLA:H41	1.50	0.92
24:A:1038:PHO:H141	24:A:1038:PHO:H191	1.52	0.92
26:C:1054:BCR:H271	26:C:1054:BCR:H393	1.51	0.92
13:O:99:ARG:O	13:O:101:THR:HG23	1.69	0.92
1:a:5269:ARG:NH2	4:d:5243:THR:HB	1.85	0.92
23:a:6006:CLA:HED2	30:c:6057:DGD:HBH2	1.51	0.92
23:B:1022:CLA:H142	23:B:1022:CLA:H101	1.50	0.92
1:a:5269:ARG:HH21	4:d:5243:THR:CG2	1.82	0.92
23:b:6015:CLA:HBA2	23:b:6015:CLA:NA	1.83	0.92
11:l:5017:LEU:CD1	11:l:5018:TYR:N	2.32	0.92
23:B:1024:CLA:HBC2	23:B:1024:CLA:CMC	1.96	0.92
23:a:6006:CLA:H172	26:d:6050:BCR:C40	1.99	0.92
26:c:6054:BCR:H271	26:c:6054:BCR:H393	1.51	0.92
13:o:5179:THR:CG2	13:o:5180:ALA:H	1.83	0.92
1:A:200:LEU:HD13	1:A:285:PHE:CD1	2.05	0.91
2:B:214:LEU:O	2:B:217:ILE:HG22	1.70	0.91
23:B:1012:CLA:H12	23:B:1013:CLA:O2A	1.69	0.91
13:O:46:PRO:HD2	13:O:266:TYR:HD2	1.35	0.91
1:a:5193:LEU:HD11	4:d:5182:LEU:HD12	1.50	0.91
2:b:5013:PRO:O	2:b:5017:ILE:HG13	1.69	0.91
23:b:6011:CLA:H172	23:b:6016:CLA:HBC1	1.50	0.91
26:c:6054:BCR:H23C	26:c:6054:BCR:H382	1.51	0.91
1:A:57:PRO:HA	1:A:68:SER:HB3	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5134:SER:HB3	1:a:5141:PRO:HA	1.50	0.91
2:b:5461:PHE:CE2	29:b:6060:MGE:H4B2	2.04	0.91
2:b:5461:PHE:HE2	29:b:6060:MGE:H5B1	1.31	0.91
23:b:6012:CLA:C1	23:b:6013:CLA:C1	2.47	0.91
23:c:6025:CLA:C20	23:c:6031:CLA:H121	1.99	0.91
23:c:6037:CLA:C2B	26:z:6053:BCR:H282	2.00	0.91
23:A:1006:CLA:H122	30:C:1057:DGD:HBG1	1.51	0.91
23:C:1029:CLA:CBA	23:C:1029:CLA:HMA3	1.98	0.91
23:b:6011:CLA:HBB2	23:b:6013:CLA:H203	0.94	0.91
3:c:5063:TRP:HZ3	23:c:6027:CLA:HBC1	0.78	0.91
2:B:419:SER:HA	2:B:422:ARG:HH12	1.35	0.91
12:M:1:MET:HE2	12:M:1:MET:H3	1.16	0.91
12:M:27:VAL:HG12	12:m:5028:GLN:HB3	1.53	0.91
13:o:5184:ASP:HB2	13:o:5185:PRO:HD2	1.48	0.91
15:u:5044:ASP:HA	15:u:5047:LEU:HG	1.52	0.91
2:B:318:ASN:ND2	2:B:320:ALA:H	1.68	0.91
14:T:1:MET:HE2	14:T:1:MET:H1	0.76	0.91
23:b:6022:CLA:H93	23:b:6022:CLA:C4	1.99	0.91
23:C:1028:CLA:HHD	23:C:1028:CLA:HBC2	1.51	0.91
23:C:1033:CLA:CMA	23:C:1033:CLA:CBA	2.44	0.91
23:C:1037:CLA:C2B	26:Z:1053:BCR:H282	2.00	0.91
4:D:160:TYR:HB3	4:D:161:PRO:HD3	1.52	0.91
1:A:60:ILE:CG1	1:A:61:ASP:H	1.83	0.91
23:B:1009:CLA:HBB1	23:B:1009:CLA:CHC	2.00	0.91
23:B:1011:CLA:H122	23:B:1011:CLA:H93	1.52	0.91
23:C:1027:CLA:HED1	23:C:1036:CLA:C20	2.00	0.91
24:d:6038:PHO:H193	24:d:6038:PHO:C15	1.92	0.91
23:B:1009:CLA:HMB1	26:H:1049:BCR:C39	2.00	0.91
23:B:1023:CLA:C12	23:B:1023:CLA:C9	2.45	0.91
3:C:322:GLN:HE22	3:C:381:LYS:HA	1.34	0.91
13:O:105:ASP:O	13:O:127:ILE:HD11	1.71	0.91
16:V:160:LYS:HB2	16:V:160:LYS:HZ2	1.12	0.91
1:a:5075:ASN:CB	14:t:5003:THR:CG2	2.48	0.91
2:b:5063:MET:HB3	2:b:5068:VAL:HG13	1.52	0.91
23:b:6019:CLA:H2A	23:b:6019:CLA:HED1	1.52	0.91
23:B:1011:CLA:HBB2	23:B:1013:CLA:H203	0.94	0.91
26:B:1048:BCR:H23C	26:B:1048:BCR:H383	0.92	0.91
23:C:1027:CLA:O1D	23:C:1036:CLA:H11	1.71	0.91
23:C:1031:CLA:HAA2	23:C:1031:CLA:HED3	1.52	0.91
1:a:5273:PHE:HD2	4:d:5219:GLU:CB	1.84	0.91
1:a:5341:LEU:HD12	3:c:5313:GLN:HE22	1.34	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5254:TRP:CZ3	4:d:5291:LEU:HG	2.05	0.91
23:b:6011:CLA:H42	23:b:6013:CLA:C9	2.00	0.91
23:b:6021:CLA:H142	23:b:6021:CLA:C20	2.01	0.91
24:d:6038:PHO:C14	24:d:6038:PHO:H102	1.93	0.91
1:A:279:ARG:CD	4:D:208:ALA:HB1	2.01	0.91
23:b:6020:CLA:OBD	23:b:6020:CLA:HED2	1.70	0.91
23:A:1007:CLA:HBC2	23:A:1007:CLA:CHD	1.99	0.90
23:B:1019:CLA:H62	23:B:1021:CLA:CED	2.00	0.90
3:C:264:PHE:CZ	26:C:1054:BCR:H311	2.06	0.90
4:D:51:GLY:HA2	4:D:55:VAL:HG23	1.53	0.90
4:D:259:ILE:HD11	14:T:21:ILE:HA	1.50	0.90
15:U:46:LYS:HE2	15:U:59:ASN:ND2	1.86	0.90
2:b:5461:PHE:HE2	29:b:6060:MGE:C5B	1.83	0.90
23:b:6009:CLA:HMB1	26:h:6049:BCR:C39	2.00	0.90
23:b:6011:CLA:H93	23:b:6011:CLA:H122	1.52	0.90
23:b:6012:CLA:HHD	23:b:6012:CLA:HBC3	1.49	0.90
23:c:6031:CLA:HAA2	23:c:6031:CLA:HED3	1.52	0.90
4:d:5049:LEU:HD21	29:d:6059:MGE:H7A1	1.53	0.90
23:B:1019:CLA:C9	29:L:1061:MGE:H8A1	2.02	0.90
23:B:1022:CLA:H72	23:B:1022:CLA:H172	1.53	0.90
23:H:1017:CLA:C19	23:H:1017:CLA:C15	2.39	0.90
23:b:6009:CLA:C1	26:h:6049:BCR:C17	2.49	0.90
23:c:6036:CLA:H172	23:c:6036:CLA:H141	1.51	0.90
23:B:1009:CLA:C1	26:H:1049:BCR:C17	2.49	0.90
1:a:5210:LEU:HD12	1:a:5210:LEU:O	1.71	0.90
2:b:5055:GLN:HB3	2:b:5328:ASN:HD22	1.35	0.90
2:b:5132:LEU:HB2	2:b:5133:PRO:HD3	1.53	0.90
23:b:6010:CLA:O1D	23:b:6010:CLA:H2A	1.71	0.90
23:B:1012:CLA:H102	23:B:1023:CLA:O2A	1.71	0.90
3:C:113:VAL:O	3:C:117:VAL:HG23	1.71	0.90
4:D:49:LEU:O	4:D:53:THR:HG23	1.70	0.90
10:K:28:ILE:CG2	10:K:29:PRO:CD	2.30	0.90
2:b:5458:LEU:HD23	4:d:5280:TRP:HZ3	1.37	0.90
24:d:6038:PHO:C3D	24:d:6038:PHO:HED3	2.00	0.90
23:B:1019:CLA:C19	23:B:1021:CLA:H71	2.02	0.90
23:C:1036:CLA:H172	23:C:1036:CLA:H141	1.51	0.90
2:b:5323:ARG:HB3	2:b:5441:ARG:HG2	1.52	0.90
26:b:6048:BCR:H23C	26:b:6048:BCR:H383	0.92	0.90
10:k:5026:PRO:O	10:k:5029:PRO:HD2	1.71	0.90
1:A:60:ILE:HG12	1:A:61:ASP:N	1.86	0.90
1:A:310:LYS:HA	16:V:29:LEU:HB3	1.51	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A:1044:BCR:H392	26:A:1044:BCR:H373	1.50	0.90
23:C:1035:CLA:C10	26:K:1052:BCR:H403	2.02	0.90
1:a:5272:HIS:HA	1:a:5275:LEU:HG	1.52	0.90
23:b:6019:CLA:H62	23:b:6021:CLA:CED	2.00	0.90
16:v:5111:GLU:HG3	16:v:5112:GLN:N	1.84	0.90
2:B:463:PHE:CE1	23:B:1016:CLA:HBB1	2.06	0.90
23:C:1031:CLA:CGD	23:C:1031:CLA:HAA2	2.02	0.90
1:A:81:ALA:HB2	1:A:175:GLY:HA3	1.53	0.90
2:B:12:LEU:HB3	2:B:19:LEU:HD23	1.52	0.90
23:B:1016:CLA:HHD	23:B:1016:CLA:HBC2	1.51	0.90
26:K:1051:BCR:C32	26:K:1052:BCR:C12	2.50	0.90
12:M:9:ILE:HG13	12:m:5009:ILE:HG12	1.50	0.90
3:c:5290:VAL:HG21	3:c:5426:LEU:HB2	1.52	0.90
2:B:280:PHE:CE1	2:B:312:TYR:HB3	2.06	0.90
23:B:1019:CLA:H2A	23:B:1019:CLA:HED1	1.52	0.90
3:c:5061:VAL:CB	3:c:5125:LEU:HD11	2.02	0.90
23:c:6031:CLA:CGD	23:c:6031:CLA:HAA2	2.02	0.90
26:A:1044:BCR:H403	26:A:1044:BCR:H372	1.51	0.90
26:D:1050:BCR:H371	26:D:1050:BCR:H392	1.29	0.90
26:K:1051:BCR:H392	26:K:1051:BCR:H373	1.54	0.90
2:b:5180:PRO:HB3	2:b:5197:ALA:HB2	1.53	0.90
1:A:51:ALA:O	1:A:55:ALA:HB2	1.70	0.89
2:B:454:ALA:C	2:B:456:ALA:H	1.71	0.89
23:B:1010:CLA:H2A	23:B:1010:CLA:O1D	1.71	0.89
23:B:1011:CLA:H42	23:B:1013:CLA:C9	2.00	0.89
23:B:1015:CLA:HBC1	26:B:1045:BCR:H342	1.54	0.89
15:U:94:ILE:O	15:U:97:LEU:HD13	1.72	0.89
8:i:5030:ARG:NH1	8:i:5030:ARG:HA	1.87	0.89
23:B:1015:CLA:C4A	23:B:1015:CLA:CBA	2.50	0.89
23:B:1021:CLA:C20	23:B:1021:CLA:H142	2.01	0.89
23:b:6010:CLA:HMD2	23:b:6011:CLA:C8	2.02	0.89
23:b:6011:CLA:H202	7:h:5038:PHE:HE2	1.31	0.89
23:b:6011:CLA:H202	7:h:5038:PHE:CE2	2.07	0.89
23:b:6019:CLA:C9	29:d:6061:MGE:H8A1	2.02	0.89
23:c:6027:CLA:HED1	23:c:6036:CLA:C20	2.01	0.89
23:c:6037:CLA:H143	23:c:6037:CLA:H101	1.54	0.89
4:d:5323:GLU:HG3	4:d:5326:ARG:NH2	1.87	0.89
15:u:5100:ARG:O	15:u:5103:GLN:HB3	1.73	0.89
3:C:75:PHE:HD1	3:C:84:GLN:HE22	1.20	0.89
3:C:363:GLY:O	3:C:367:GLU:HG2	1.72	0.89
1:a:5247:ASN:HB3	1:a:5250:ALA:HB3	1.53	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5240:ALA:HA	2:b:5243:PHE:CE2	2.07	0.89
23:c:6033:CLA:H91	23:c:6033:CLA:H121	1.55	0.89
26:k:6051:BCR:H392	26:k:6051:BCR:H373	1.54	0.89
2:B:464:PHE:CE2	29:B:1060:MGE:H5B1	2.07	0.89
27:a:6063:LHG:H312	23:c:6034:CLA:H91	1.51	0.89
24:A:1038:PHO:H152	24:A:1038:PHO:H192	1.55	0.89
3:C:354:GLU:HA	3:C:356:MET:HE2	1.53	0.89
4:D:246:MET:SD	4:D:264:LYS:HB3	2.12	0.89
1:a:5280:VAL:HA	1:a:5283:VAL:HG11	1.54	0.89
4:d:5149:PRO:O	4:d:5152:VAL:HG12	1.72	0.89
10:k:5034:ALA:HB3	26:k:6051:BCR:C17	2.02	0.89
23:A:1006:CLA:HED2	30:C:1057:DGD:HBH2	1.51	0.89
24:A:1038:PHO:C3D	24:A:1038:PHO:HED3	2.00	0.89
23:C:1028:CLA:C4	30:C:1057:DGD:HA22	2.03	0.89
13:O:215:ARG:H	13:O:215:ARG:HD2	1.37	0.89
2:b:5189:PRO:HG2	7:h:5049:TYR:CE1	2.08	0.89
26:k:6052:BCR:H382	26:k:6052:BCR:C23	1.97	0.89
2:B:326:ARG:HB3	2:B:444:ARG:HG3	1.54	0.89
26:B:1047:BCR:H381	26:t:1046:BCR:C12	2.02	0.89
5:E:38:VAL:HG11	6:F:39:ALA:HB3	1.53	0.89
20:Z:53:VAL:O	20:Z:57:LEU:HB2	1.73	0.89
2:b:5462:GLY:H	23:b:6019:CLA:HBC1	1.34	0.89
14:t:5001:MET:N	14:t:5004:ILE:HD13	1.87	0.89
23:A:1006:CLA:C11	30:C:1057:DGD:CIB	2.50	0.89
23:B:1012:CLA:C12	23:B:1012:CLA:H93	1.98	0.89
23:B:1015:CLA:NA	23:B:1015:CLA:HBA2	1.83	0.89
26:C:1054:BCR:H383	26:C:1054:BCR:C23	2.03	0.89
23:D:1005:CLA:H51	23:D:1005:CLA:O2A	1.71	0.89
14:T:4:ILE:HD12	14:T:4:ILE:C	1.92	0.89
2:b:5017:ILE:HG12	23:b:6023:CLA:HMD1	1.55	0.89
2:b:5146:LEU:HD13	23:b:6012:CLA:H203	1.55	0.89
23:b:6009:CLA:C1B	26:h:6049:BCR:H382	2.03	0.89
23:b:6009:CLA:C3B	26:h:6049:BCR:H382	2.03	0.89
23:b:6012:CLA:H102	23:b:6023:CLA:O2A	1.72	0.89
23:d:6005:CLA:O2A	23:d:6005:CLA:H51	1.71	0.89
16:v:5102:MET:HE1	16:v:5141:ILE:HB	1.54	0.89
1:A:25:ASP:HA	4:D:251:ARG:NH2	1.87	0.89
3:C:283:GLY:HA3	3:C:434:ALA:HB2	1.51	0.89
1:a:5054:ALA:HB2	1:a:5072:LEU:HD12	1.55	0.89
23:b:6022:CLA:H72	23:b:6022:CLA:H172	1.52	0.89
26:b:6045:BCR:H331	26:b:6045:BCR:C8	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5424:SER:O	3:c:5428:THR:HG22	1.73	0.89
15:u:5127:ARG:HG2	15:u:5127:ARG:HH11	1.37	0.89
1:A:322:ASN:ND2	3:C:412:THR:HG22	1.88	0.89
30:C:1057:DGD:HAS1	29:J:1059:MGE:H221	1.54	0.89
23:b:6019:CLA:C19	23:b:6021:CLA:H71	2.02	0.89
23:c:6035:CLA:C10	26:k:6052:BCR:H403	2.02	0.89
4:d:5017:ILE:HG22	17:x:5041:SER:HB3	1.55	0.89
11:l:5021:LEU:HB3	14:t:5016:LEU:HD21	1.55	0.89
4:D:342:PRO:HB2	4:D:345:VAL:HG23	1.54	0.88
2:b:5110:TRP:HB2	26:b:6048:BCR:H372	1.54	0.88
26:b:6045:BCR:H392	26:b:6045:BCR:H373	1.55	0.88
14:t:5002:GLU:O	14:t:5006:TYR:CD2	2.26	0.88
3:C:62:PHE:HE2	10:K:28:ILE:CG2	1.85	0.88
2:b:5236:SER:C	2:b:5238:SER:H	1.80	0.88
2:b:5240:ALA:HB2	2:b:5463:HIS:CE1	2.08	0.88
23:b:6022:CLA:C17	23:b:6022:CLA:C7	2.50	0.88
3:c:5218:PHE:HA	30:c:6055:DGD:HG11	1.54	0.88
23:A:1006:CLA:HHC	23:A:1006:CLA:HBB1	1.54	0.88
23:B:1011:CLA:HED2	23:B:1011:CLA:OBD	1.74	0.88
23:B:1023:CLA:O1A	23:B:1023:CLA:H3A	1.73	0.88
1:a:5316:THR:C	4:d:5063:LEU:HD21	1.98	0.88
3:c:5224:ILE:HD11	3:c:5285:ILE:HD11	1.54	0.88
16:v:5160:LYS:NZ	16:v:5160:LYS:CB	2.36	0.88
24:A:1039:PHO:HAB	23:D:1004:CLA:H12	1.56	0.88
2:B:223:GLN:HG3	2:B:224:ARG:N	1.84	0.88
23:B:1022:CLA:H72	23:B:1022:CLA:C13	2.03	0.88
23:C:1025:CLA:CBB	23:C:1025:CLA:C9	2.51	0.88
30:C:1056:DGD:C6D	30:C:1056:DGD:C5E	2.52	0.88
23:H:1017:CLA:O1A	23:H:1017:CLA:H3A	1.73	0.88
1:a:5273:PHE:HE2	4:d:5219:GLU:HA	0.96	0.88
2:b:5282:ASN:O	2:b:5285:VAL:HG12	1.73	0.88
23:b:6017:CLA:O1A	23:b:6017:CLA:H3A	1.73	0.88
4:d:5116:LEU:O	4:d:5119:ALA:HB3	1.72	0.88
1:A:331:MET:SD	4:D:348:ARG:HA	2.13	0.88
23:A:1006:CLA:CED	23:A:1006:CLA:H2A	2.04	0.88
23:B:1022:CLA:C17	23:B:1022:CLA:C7	2.50	0.88
3:C:350:ILE:HG13	3:C:359:TRP:HB2	1.56	0.88
26:D:1050:BCR:H392	26:D:1050:BCR:H373	1.56	0.88
1:a:5272:HIS:CD2	4:d:5218:VAL:HG21	2.08	0.88
23:b:6011:CLA:OBD	23:b:6011:CLA:HED2	1.74	0.88
1:A:195:HIS:ND1	1:A:196:PRO:HD2	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:210:LEU:HA	4:D:213:ILE:CG2	2.03	0.88
23:b:6022:CLA:H72	23:b:6022:CLA:C13	2.03	0.88
23:c:6025:CLA:CBB	23:c:6025:CLA:C9	2.51	0.88
24:d:6038:PHO:H141	24:d:6038:PHO:H191	1.52	0.88
27:A:1063:LHG:H121	27:A:1063:LHG:C16	2.04	0.88
2:B:368:VAL:HG11	2:B:381:ILE:HD12	1.54	0.88
3:C:179:ALA:HB1	3:C:199:ILE:HD13	1.55	0.88
26:D:1050:BCR:H371	26:D:1050:BCR:H403	1.32	0.88
1:a:5150:PRO:HA	23:a:6003:CLA:C4	2.04	0.88
23:a:6006:CLA:HBB1	23:a:6006:CLA:HHC	1.54	0.88
2:b:5238:SER:HB3	23:b:6020:CLA:HED3	1.54	0.88
23:b:6015:CLA:CBA	23:b:6015:CLA:C4A	2.50	0.88
23:b:6020:CLA:H142	23:b:6020:CLA:H92	1.55	0.88
23:c:6028:CLA:C4	30:c:6057:DGD:HA22	2.03	0.88
23:c:6034:CLA:C8	23:c:6034:CLA:C4	2.48	0.88
23:c:6034:CLA:H41	23:c:6034:CLA:H71	1.38	0.88
1:A:219:VAL:HG21	4:D:268:HIS:CG	2.08	0.88
23:B:1009:CLA:C3B	26:H:1049:BCR:H382	2.03	0.88
13:O:31:LEU:HD23	13:O:31:LEU:H	1.36	0.88
27:a:6063:LHG:C29	23:c:6032:CLA:H8	2.03	0.88
2:b:5103:LEU:CD1	26:b:6048:BCR:C35	2.52	0.88
23:c:6027:CLA:O1D	23:c:6036:CLA:H11	1.72	0.88
23:c:6031:CLA:O2D	23:c:6033:CLA:H101	1.73	0.88
30:c:6057:DGD:HAS1	29:d:6059:MGE:H221	1.54	0.88
26:k:6051:BCR:H403	26:k:6051:BCR:H372	1.55	0.88
20:z:5016:SER:HA	20:z:5019:MET:HB2	1.56	0.88
13:O:46:PRO:HD2	13:O:266:TYR:CD2	2.08	0.88
2:b:5457:LEU:CA	30:h:6058:DGD:HAG1	2.04	0.88
30:C:1056:DGD:CEB	30:C:1056:DGD:HBG3	2.03	0.88
5:E:27:ILE:HB	5:E:28:PRO:CD	2.03	0.88
14:T:2:GLU:O	14:T:6:TYR:CD2	2.27	0.88
18:Y:24:MET:O	18:Y:28:ILE:HG23	1.74	0.88
1:a:5278:TRP:HH2	30:c:6057:DGD:HAG1	1.36	0.88
27:a:6063:LHG:H121	27:a:6063:LHG:C16	2.04	0.88
23:b:6021:CLA:H193	29:b:6060:MGE:CDA	2.04	0.88
3:c:5075:PHE:HE2	3:c:5105:VAL:HG11	1.38	0.88
1:A:215:HIS:O	1:A:219:VAL:HG22	1.74	0.87
1:A:219:VAL:CG2	4:D:268:HIS:HB3	2.04	0.87
23:B:1009:CLA:C1B	26:H:1049:BCR:H382	2.03	0.87
4:D:213:ILE:O	4:D:217:THR:HB	1.74	0.87
1:a:5254:TYR:OH	4:d:5129:GLN:HB3	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:a:6039:PHO:HAB	23:d:6004:CLA:H12	1.56	0.87
2:b:5096:ALA:HB1	23:b:6014:CLA:H2	1.57	0.87
13:o:5105:ASP:C	13:o:5127:ILE:HD11	1.98	0.87
16:v:5067:HIS:CE1	16:v:5072:THR:CG2	2.57	0.87
2:B:99:ALA:O	2:B:102:VAL:HG12	1.73	0.87
26:B:1045:BCR:H331	26:B:1045:BCR:C8	2.02	0.87
3:C:135:ARG:HH12	20:Z:33:TRP:CB	1.87	0.87
23:C:1025:CLA:H162	23:C:1031:CLA:HMB3	1.55	0.87
26:K:1051:BCR:H403	26:K:1051:BCR:H372	1.55	0.87
1:a:5013:LEU:HD22	1:a:5013:LEU:H	1.36	0.87
23:c:6027:CLA:CED	23:c:6036:CLA:H201	2.05	0.87
30:c:6056:DGD:CEB	30:c:6056:DGD:HBG3	2.03	0.87
26:d:6050:BCR:H392	26:d:6050:BCR:H373	1.56	0.87
23:C:1037:CLA:H143	23:C:1037:CLA:H101	1.54	0.87
8:I:31:ASN:HB2	8:I:32:PRO:HD2	1.56	0.87
1:a:5219:VAL:HG11	4:d:5268:HIS:CG	2.09	0.87
23:a:6006:CLA:CED	23:a:6006:CLA:H2A	2.04	0.87
23:b:6019:CLA:C6	23:b:6021:CLA:HED1	2.03	0.87
3:c:5061:VAL:HG21	3:c:5125:LEU:CD1	1.98	0.87
23:c:6031:CLA:HED1	23:c:6031:CLA:O1A	1.74	0.87
3:C:63:TRP:H	23:C:1034:CLA:HED3	1.39	0.87
23:b:6019:CLA:HED2	23:b:6019:CLA:C2A	2.02	0.87
23:b:6023:CLA:O1A	23:b:6023:CLA:H3A	1.73	0.87
3:c:5164:HIS:O	3:c:5168:LEU:HG	1.73	0.87
30:c:6056:DGD:C6D	30:c:6056:DGD:C5E	2.52	0.87
20:z:5015:LEU:CD2	20:z:5050:LEU:HD12	2.04	0.87
1:A:76:ASN:HD22	1:A:79:THR:H	1.23	0.87
27:A:1063:LHG:H383	27:A:1063:LHG:H341	1.57	0.87
23:B:1009:CLA:C1	26:H:1049:BCR:C16	2.53	0.87
9:J:21:VAL:O	9:J:25:VAL:HG13	1.75	0.87
1:a:5199:GLN:CD	30:c:6057:DGD:HBW2	1.99	0.87
2:b:5151:GLY:HA2	2:b:5155:LEU:HB2	1.56	0.87
23:b:6015:CLA:C4A	23:b:6015:CLA:HBA1	2.05	0.87
20:z:5015:LEU:O	20:z:5019:MET:HG2	1.73	0.87
1:A:317:TRP:N	4:D:63:LEU:HD21	1.89	0.87
23:B:1015:CLA:C4A	23:B:1015:CLA:HBA1	2.04	0.87
26:B:1045:BCR:H392	26:B:1045:BCR:H373	1.55	0.87
23:C:1027:CLA:CED	23:C:1036:CLA:H201	2.04	0.87
1:a:5221:SER:HA	4:d:5139:ARG:HB2	1.53	0.87
4:d:5195:PRO:HA	4:d:5198:MET:CE	2.05	0.87
15:u:5088:VAL:O	15:u:5091:VAL:HG23	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:TYR:HE2	1:A:239:PHE:HA	1.37	0.87
27:A:1063:LHG:C29	23:C:1032:CLA:H8	2.03	0.87
2:B:66:MET:HB3	2:B:71:VAL:CG1	2.05	0.87
23:B:1013:CLA:CBB	23:B:1023:CLA:H41	2.05	0.87
23:B:1014:CLA:HBC2	23:B:1014:CLA:CHD	2.05	0.87
23:B:1021:CLA:H193	29:B:1060:MGE:CDA	2.04	0.87
2:b:5022:MET:HE1	2:b:5105:PHE:CD1	2.09	0.87
23:b:6012:CLA:C12	23:b:6012:CLA:H93	2.01	0.87
3:c:5088:LEU:CD2	23:c:6027:CLA:HBC2	2.04	0.87
23:c:6034:CLA:CED	10:k:5029:PRO:CG	2.53	0.87
23:d:6005:CLA:C15	23:d:6005:CLA:H203	2.04	0.87
24:d:6038:PHO:H152	24:d:6038:PHO:H192	1.55	0.87
2:B:113:TRP:HB2	26:B:1048:BCR:H372	1.54	0.87
23:B:1009:CLA:HMB3	26:H:1049:BCR:H393	0.87	0.87
23:B:1019:CLA:C6	23:B:1021:CLA:HED1	2.03	0.87
1:a:5269:ARG:NH1	4:d:5231:THR:CG2	2.38	0.87
27:a:6063:LHG:C31	23:c:6034:CLA:H93	2.03	0.87
23:b:6009:CLA:HMB3	26:h:6049:BCR:H393	0.87	0.87
8:i:5006:ILE:H	8:i:5006:ILE:HD13	1.38	0.87
1:a:5084:PRO:HA	1:a:5112:TYR:CD2	2.10	0.87
1:a:5280:VAL:CA	1:a:5283:VAL:CG1	2.53	0.87
3:c:5321:ASP:OD1	15:u:5129:ASN:HB2	1.72	0.87
26:c:6054:BCR:H383	26:c:6054:BCR:C23	2.03	0.87
29:d:6062:MGE:O5D	11:l:5015:THR:CB	2.23	0.87
26:T:6046:BCR:H371	26:T:6046:BCR:C27	2.05	0.86
27:a:6063:LHG:H312	23:c:6034:CLA:H93	1.57	0.86
2:b:5024:THR:HG21	23:b:6020:CLA:H11	1.57	0.86
20:z:5009:LEU:C	20:z:5011:ALA:H	1.83	0.86
23:C:1031:CLA:O2D	23:C:1033:CLA:H101	1.73	0.86
15:U:72:TYR:HB3	15:U:73:PRO:HD3	1.54	0.86
23:b:6015:CLA:HBC1	26:b:6045:BCR:H342	1.54	0.86
24:A:1038:PHO:HBC1	4:D:212:ALA:HB3	1.58	0.86
2:B:253:ALA:CB	2:B:455:HIS:HB2	2.00	0.86
23:B:1023:CLA:C14	23:B:1024:CLA:H8	2.06	0.86
23:b:6009:CLA:C1	26:h:6049:BCR:C16	2.53	0.86
3:c:5162:GLY:O	3:c:5166:ILE:HG12	1.75	0.86
15:u:5100:ARG:NH1	15:u:5103:GLN:HG2	1.88	0.86
23:A:1006:CLA:H72	23:A:1006:CLA:H2	1.55	0.86
2:B:284:ILE:HG22	2:B:309:LEU:HD22	1.57	0.86
16:V:160:LYS:N	16:V:163:TYR:CE1	2.43	0.86
20:z:5053:VAL:C	20:z:5055:GLY:H	1.83	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1020:CLA:H142	23:B:1020:CLA:H92	1.55	0.86
3:C:45:LEU:HD22	3:C:140:LEU:N	1.90	0.86
3:C:284:PHE:HB3	30:C:1055:DGD:HB81	1.57	0.86
23:D:1005:CLA:C15	23:D:1005:CLA:H203	2.04	0.86
11:L:27:LEU:HD12	12:M:14:PHE:HZ	1.38	0.86
16:V:98:LEU:HD21	16:V:145:ILE:HG21	1.56	0.86
23:c:6034:CLA:H172	23:c:6034:CLA:H141	0.88	0.86
23:B:1010:CLA:HMD2	23:B:1011:CLA:C8	2.03	0.86
8:I:30:ARG:NH1	8:I:30:ARG:HA	1.90	0.86
11:L:24:ILE:HD11	12:M:18:PRO:HG2	1.57	0.86
1:a:5089:ILE:HD11	1:a:5108:ASN:HB3	1.54	0.86
3:c:5262:ARG:HB3	3:c:5262:ARG:HH11	1.39	0.86
3:C:185:LEU:HD13	3:C:230:LEU:HD11	1.57	0.86
23:C:1033:CLA:H91	23:C:1033:CLA:H121	1.55	0.86
4:D:210:LEU:HA	4:D:213:ILE:HG22	1.56	0.86
27:a:6063:LHG:C31	23:c:6034:CLA:H143	2.05	0.86
2:b:5063:MET:HB3	2:b:5068:VAL:CG1	2.04	0.86
2:b:5323:ARG:HB3	2:b:5441:ARG:CG	2.06	0.86
23:b:6011:CLA:C19	23:b:6017:CLA:C13	2.53	0.86
5:e:5016:SER:HB3	5:e:5019:TYR:CB	2.06	0.86
26:k:6051:BCR:H371	26:k:6051:BCR:H392	1.32	0.86
2:B:391:SER:HB3	2:B:394:GLN:CD	2.01	0.86
23:B:1019:CLA:H93	29:L:1061:MGE:H8A1	1.57	0.86
3:C:97:TRP:HE1	3:C:178:LYS:CE	1.88	0.86
1:a:5069:GLY:HA2	4:d:5313:THR:HG22	1.55	0.86
2:b:5103:LEU:CD1	26:b:6048:BCR:H352	2.04	0.86
2:b:5220:GLN:HG3	2:b:5221:ARG:H	1.38	0.86
3:c:5160:ILE:HG22	3:c:5164:HIS:CE1	2.10	0.86
26:d:6050:BCR:H403	26:d:6050:BCR:H372	1.57	0.86
1:A:37:MET:HG2	1:A:41:LEU:HD23	1.56	0.86
23:B:1019:CLA:HED2	23:B:1019:CLA:C2A	2.02	0.86
3:C:350:ILE:HD13	3:C:351:PHE:O	1.74	0.86
23:C:1031:CLA:H171	23:C:1031:CLA:H142	1.56	0.86
23:C:1031:CLA:O1A	23:C:1031:CLA:HED1	1.74	0.86
1:a:5215:HIS:CE1	4:d:5268:HIS:CD2	2.63	0.86
23:a:6006:CLA:C17	26:d:6050:BCR:C40	2.54	0.86
23:b:6014:CLA:HBC2	23:b:6014:CLA:CHD	2.05	0.86
3:c:5095:LEU:HD22	3:c:5095:LEU:N	1.91	0.86
23:c:6032:CLA:H2A	23:c:6032:CLA:HED3	0.86	0.86
27:A:1063:LHG:C31	23:C:1034:CLA:H143	2.06	0.86
12:M:32:GLN:HE22	12:m:5034:LYS:HA	1.41	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5077:ILE:HG22	1:a:5078:ILE:HD13	1.54	0.86
2:b:5449:THR:HG22	4:d:5291:LEU:HD21	1.58	0.86
23:b:6011:CLA:CBB	23:b:6013:CLA:C18	2.54	0.86
3:c:5281:MET:O	3:c:5285:ILE:HG22	1.76	0.86
30:c:6057:DGD:HB82	29:d:6059:MGE:H8B2	1.58	0.86
2:B:152:GLY:HA2	2:B:155:ALA:HB3	1.56	0.85
3:C:62:PHE:HE2	10:K:28:ILE:HG22	1.39	0.85
3:C:281:MET:O	3:C:285:ILE:HG22	1.75	0.85
23:C:1031:CLA:O2D	23:C:1033:CLA:H8	1.76	0.85
1:a:5071:LEU:O	1:a:5075:ASN:HB3	1.75	0.85
2:b:5003:TYR:OH	11:l:5011:GLU:HG3	1.75	0.85
2:b:5396:VAL:HG13	2:b:5414:VAL:HG22	1.55	0.85
2:b:5453:ALA:HA	30:h:6058:DGD:CIB	2.06	0.85
30:c:6055:DGD:HAE1	30:c:6055:DGD:C7A	1.99	0.85
11:l:5027:LEU:HD12	12:m:5014:PHE:HZ	1.40	0.85
2:B:465:GLY:N	23:B:1019:CLA:CBC	2.38	0.85
26:B:1045:BCR:H403	26:B:1045:BCR:H372	1.56	0.85
30:C:1056:DGD:CFB	10:K:30:VAL:HG21	2.06	0.85
16:V:64:ALA:O	16:V:68:VAL:HG23	1.76	0.85
2:b:5234:VAL:HA	2:b:5237:SER:HB2	1.56	0.85
23:c:6029:CLA:O2D	23:c:6029:CLA:H2A	1.76	0.85
13:o:5144:LEU:HD11	13:o:5261:ILE:HD11	1.55	0.85
1:A:135:TYR:CZ	3:C:449:ARG:HD2	2.10	0.85
23:A:1007:CLA:H2A	23:A:1007:CLA:O1D	1.76	0.85
24:A:1038:PHO:HHD	24:A:1038:PHO:CBC	2.06	0.85
2:B:262:THR:O	2:B:264:PRO:HD3	1.76	0.85
23:B:1011:CLA:C19	23:H:1017:CLA:C13	2.53	0.85
3:C:76:ILE:HG23	3:C:77:PRO:HD2	1.58	0.85
23:C:1031:CLA:HBA2	23:C:1033:CLA:HED2	1.58	0.85
2:b:5461:PHE:CE2	29:b:6060:MGE:C5B	2.59	0.85
23:b:6019:CLA:H93	29:d:6061:MGE:H8A1	1.57	0.85
2:B:323:GLY:HA3	2:B:326:ARG:HH11	1.41	0.85
23:B:1016:CLA:HHD	23:B:1016:CLA:HBC3	1.58	0.85
13:O:65:ARG:NH2	13:O:66:ILE:HG12	1.92	0.85
16:V:48:THR:H	16:V:51:GLN:HG2	1.39	0.85
1:a:5060:ILE:HD13	1:a:5060:ILE:N	1.89	0.85
2:b:5173:GLY:HA3	2:b:5263:GLU:OE2	1.74	0.85
23:b:6020:CLA:H91	23:b:6020:CLA:H142	1.47	0.85
3:c:5266:TRP:HB3	3:c:5271:TYR:OH	1.76	0.85
2:B:171:PRO:HG3	7:H:63:LYS:HA	1.58	0.85
3:C:250:TRP:HE1	23:C:1030:CLA:CED	1.89	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:C:1029:CLA:H2A	23:C:1029:CLA:O2D	1.76	0.85
4:D:269:PHE:O	4:D:269:PHE:CD1	2.30	0.85
20:Z:3:ILE:HD12	20:Z:3:ILE:H	1.41	0.85
1:a:5142:TRP:H	4:d:5220:ASN:HD21	1.24	0.85
23:d:6005:CLA:CED	23:d:6005:CLA:C2A	2.43	0.85
29:d:6062:MGE:C1G	11:l:5019:LEU:CD2	2.54	0.85
1:A:328:MET:HB3	4:D:325:ILE:HD11	1.55	0.85
23:B:1009:CLA:CGD	23:B:1009:CLA:CAA	2.55	0.85
1:a:5307:ILE:HG13	1:a:5308:ASP:H	1.41	0.85
4:d:5253:TRP:HA	4:d:5256:ILE:CG2	2.07	0.85
4:d:5274:VAL:CB	4:d:5275:PRO:HD3	2.07	0.85
26:k:6051:BCR:H371	26:k:6051:BCR:H403	1.32	0.85
20:z:5055:GLY:HA2	26:z:6053:BCR:C31	2.05	0.85
23:b:6023:CLA:C14	23:b:6024:CLA:H8	2.05	0.85
23:c:6031:CLA:H171	23:c:6031:CLA:H142	1.56	0.85
23:d:6005:CLA:HED2	23:d:6005:CLA:CAA	2.06	0.85
1:A:60:ILE:HG22	1:A:83:VAL:HG13	1.58	0.85
23:A:1006:CLA:HHD	23:A:1006:CLA:CBC	2.06	0.85
2:B:284:ILE:HG13	2:B:285:ASN:N	1.90	0.85
30:C:1057:DGD:HB82	29:J:1059:MGE:H8B2	1.58	0.85
1:a:5273:PHE:CZ	4:d:5218:VAL:HG12	2.12	0.85
23:b:6009:CLA:CGD	23:b:6009:CLA:CAA	2.55	0.85
23:b:6013:CLA:CBB	23:b:6023:CLA:H41	2.05	0.85
3:c:5261:ARG:HG2	3:c:5261:ARG:HH11	1.42	0.85
26:k:6051:BCR:C8	26:k:6051:BCR:C33	2.44	0.85
23:C:1032:CLA:H2A	23:C:1032:CLA:HED3	0.86	0.85
4:D:251:ARG:HE	4:D:255:GLN:NE2	1.74	0.85
4:D:257:PHE:HA	29:D:1062:MGE:H121	1.57	0.85
4:D:261:PHE:CE2	4:D:267:LEU:HB2	2.11	0.85
26:b:6045:BCR:H353	26:b:6047:BCR:C11	2.06	0.85
23:c:6032:CLA:HHC	23:c:6032:CLA:HBB1	1.58	0.85
10:k:5039:VAL:HG22	18:y:5018:ILE:CD1	2.07	0.85
11:l:5017:LEU:HD11	11:l:5018:TYR:CD1	2.12	0.85
30:C:1056:DGD:C3E	30:C:1056:DGD:C6D	2.45	0.85
15:U:39:LEU:H	15:U:39:LEU:HD12	1.40	0.85
26:b:6045:BCR:H403	26:b:6045:BCR:H372	1.56	0.85
3:c:5097:TRP:HE1	3:c:5178:LYS:CE	1.90	0.85
7:h:5012:ARG:HG2	7:h:5013:PRO:HA	1.59	0.85
3:C:447:ARG:HG3	3:C:448:ALA:N	1.90	0.84
9:J:9:PRO:HG2	9:J:12:ILE:HB	1.56	0.84
13:O:184:ASP:HB2	13:O:185:PRO:HD2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:a:6006:CLA:C14	23:d:6004:CLA:H192	2.06	0.84
26:h:6049:BCR:H361	26:h:6049:BCR:H373	1.59	0.84
13:o:5099:ARG:HG2	13:o:5099:ARG:HH11	1.41	0.84
15:u:5075:LEU:HD21	15:u:5101:GLN:HB2	1.59	0.84
1:A:173:PRO:HD2	1:A:182:PHE:HB2	1.59	0.84
23:B:1011:CLA:CBB	23:B:1013:CLA:C18	2.54	0.84
3:C:63:TRP:CE3	23:C:1027:CLA:HBC1	2.10	0.84
23:D:1005:CLA:HED2	23:D:1005:CLA:CAA	2.06	0.84
23:a:6006:CLA:C2	23:a:6006:CLA:C7	2.53	0.84
2:b:5328:ASN:HB3	2:b:5434:LEU:HD21	1.59	0.84
23:b:6010:CLA:CMD	23:b:6011:CLA:C8	2.53	0.84
23:b:6010:CLA:O1D	23:b:6010:CLA:HAA2	1.77	0.84
3:c:5312:ALA:HB1	3:c:5392:ALA:O	1.77	0.84
5:e:5015:THR:HG23	9:j:5008:ILE:O	1.75	0.84
27:A:1063:LHG:C31	23:C:1034:CLA:H93	2.07	0.84
3:C:428:THR:HG23	3:C:429:SER:H	1.40	0.84
1:a:5027:ARG:HB2	1:a:5027:ARG:HH11	1.39	0.84
23:a:6007:CLA:O1D	23:a:6007:CLA:H2A	1.76	0.84
27:a:6063:LHG:H341	27:a:6063:LHG:H383	1.57	0.84
23:c:6037:CLA:HAB	26:z:6053:BCR:C30	2.07	0.84
23:B:1010:CLA:CMD	23:B:1011:CLA:C8	2.53	0.84
23:B:1021:CLA:C14	23:B:1021:CLA:H203	2.07	0.84
26:B:1045:BCR:H353	26:B:1047:BCR:C11	2.06	0.84
26:H:1049:BCR:H23C	26:H:1049:BCR:C40	2.02	0.84
20:Z:13:VAL:HG13	20:Z:14:ILE:N	1.92	0.84
23:c:6031:CLA:CED	23:c:6031:CLA:CAA	2.55	0.84
1:A:195:HIS:ND1	1:A:197:PHE:HB2	1.92	0.84
23:B:1020:CLA:HBB1	23:B:1021:CLA:HBA2	1.57	0.84
23:B:1022:CLA:C5	23:B:1022:CLA:C9	2.30	0.84
29:D:1062:MGE:O5D	11:L:15:THR:HB	1.77	0.84
1:a:5223:LEU:CD2	4:d:5265:ARG:HD3	2.07	0.84
1:a:5279:ARG:C	1:a:5283:VAL:HG12	2.02	0.84
23:a:6006:CLA:HHD	23:a:6006:CLA:CBC	2.06	0.84
2:b:5132:LEU:H	2:b:5132:LEU:HD12	1.41	0.84
23:b:6021:CLA:C14	23:b:6021:CLA:H203	2.07	0.84
7:h:5041:PHE:O	7:h:5044:ILE:HG12	1.78	0.84
11:l:5017:LEU:HD12	11:l:5018:TYR:CA	2.06	0.84
2:B:460:LEU:HG	30:H:1058:DGD:CIA	2.08	0.84
23:B:1020:CLA:H91	23:B:1020:CLA:H142	1.47	0.84
23:C:1032:CLA:HBB1	23:C:1032:CLA:HHC	1.58	0.84
4:D:68:LEU:HA	6:F:40:MET:HG2	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5219:VAL:HG21	4:d:5268:HIS:ND1	1.93	0.84
3:c:5282:MET:HA	3:c:5285:ILE:CG2	2.07	0.84
23:c:6035:CLA:H122	10:k:5032:PHE:CE1	2.12	0.84
4:d:5134:ARG:HA	4:d:5134:ARG:HE	1.43	0.84
5:e:5037:PHE:CZ	5:e:5046:VAL:HG21	2.12	0.84
23:C:1037:CLA:HAB	26:Z:1053:BCR:C30	2.08	0.84
26:D:1050:BCR:H403	26:D:1050:BCR:H372	1.57	0.84
1:a:5272:HIS:CA	1:a:5275:LEU:HG	2.07	0.84
23:b:6020:CLA:HBB1	23:b:6021:CLA:HBA2	1.57	0.84
30:c:6056:DGD:HD61	30:c:6056:DGD:HE3	0.87	0.84
16:v:5062:ALA:HB1	31:v:6041:HEM:HBB1	1.57	0.84
4:D:110:LEU:O	4:D:113:PHE:HB3	1.76	0.84
4:D:261:PHE:HE2	4:D:266:TRP:CD1	1.94	0.84
10:K:28:ILE:HD13	26:K:1051:BCR:C7	2.04	0.84
12:M:9:ILE:HG21	12:m:5008:PHE:CE1	2.12	0.84
13:O:68:ARG:O	13:O:267:ALA:HA	1.77	0.84
3:c:5294:ASN:HB2	30:c:6055:DGD:O3E	1.77	0.84
23:B:1021:CLA:OBD	23:B:1022:CLA:CMC	2.26	0.84
3:C:214:LEU:HD23	3:C:215:LYS:HB2	1.59	0.84
3:C:264:PHE:CE1	26:C:1054:BCR:C31	2.60	0.84
3:C:305:THR:HG22	3:C:308:GLU:HB2	1.59	0.84
26:H:1049:BCR:H361	26:H:1049:BCR:H373	1.59	0.84
1:a:5258:LEU:HD12	4:d:5128:ARG:NH1	1.93	0.84
3:c:5162:GLY:HA3	3:c:5248:GLY:HA2	1.57	0.84
3:c:5236:GLY:HA3	26:c:6054:BCR:C39	2.07	0.84
24:d:6038:PHO:HHD	24:d:6038:PHO:CBC	2.06	0.84
1:A:219:VAL:HB	4:D:268:HIS:HD1	1.37	0.84
3:C:304:PRO:HB3	3:C:395:TYR:CD2	2.12	0.84
23:C:1026:CLA:HMB1	23:C:1026:CLA:HBB1	1.59	0.84
4:D:72:ASN:HD22	4:D:74:LEU:H	1.25	0.84
4:D:196:PHE:HA	4:D:199:MET:HE3	1.60	0.84
23:b:6019:CLA:CMB	23:b:6020:CLA:C1C	2.56	0.84
4:d:5093:TRP:HZ2	23:d:6008:CLA:O1A	1.59	0.84
1:A:322:ASN:HD21	3:C:412:THR:HG22	1.41	0.83
2:B:65:PHE:O	2:B:68:ARG:HG2	1.77	0.83
23:C:1031:CLA:HED3	23:C:1031:CLA:CAA	2.08	0.83
3:c:5203:THR:HG21	3:c:5232:ASP:HA	1.60	0.83
4:d:5053:THR:HB	4:d:5067:TYR:CD2	2.13	0.83
23:A:1003:CLA:C14	24:A:1038:PHO:H93	2.05	0.83
23:C:1031:CLA:CED	23:C:1031:CLA:CAA	2.55	0.83
6:F:11:VAL:HG12	6:F:12:SER:H	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M:9:ILE:HG21	12:m:5008:PHE:HZ	1.15	0.83
18:Y:32:GLY:HA2	18:Y:35:ILE:HG23	1.59	0.83
1:a:5147:TYR:O	1:a:5150:PRO:HG2	1.78	0.83
1:a:5195:HIS:CE1	1:a:5197:PHE:HB2	2.13	0.83
26:b:6048:BCR:C38	26:b:6048:BCR:C23	2.38	0.83
16:v:5120:SER:HA	16:v:5130:MET:HE3	1.58	0.83
23:C:1037:CLA:CGD	23:C:1037:CLA:HBA1	2.09	0.83
30:C:1056:DGD:HD61	30:C:1056:DGD:HE3	0.87	0.83
4:D:253:TRP:HA	4:D:256:ILE:CG2	2.08	0.83
1:a:5027:ARG:HB2	1:a:5027:ARG:NH1	1.93	0.83
3:c:5051:GLY:HA3	3:c:5132:HIS:CB	2.07	0.83
23:c:6027:CLA:HED2	23:c:6036:CLA:H201	1.59	0.83
4:d:5201:VAL:HG21	23:d:6005:CLA:OBD	1.78	0.83
29:d:6062:MGE:H1G1	11:l:5019:LEU:HD22	1.60	0.83
2:B:257:TRP:CZ3	4:D:291:LEU:CG	2.61	0.83
23:B:1010:CLA:O1D	23:B:1010:CLA:HAA2	1.77	0.83
23:B:1011:CLA:CBB	23:B:1013:CLA:H192	2.09	0.83
5:E:35:TRP:CE3	6:F:38:ALA:HB3	2.13	0.83
23:b:6009:CLA:HBB1	23:b:6009:CLA:CHC	2.00	0.83
23:b:6014:CLA:C16	23:b:6014:CLA:C11	2.40	0.83
23:b:6016:CLA:HHD	23:b:6016:CLA:HBC3	1.57	0.83
23:c:6035:CLA:H93	26:k:6052:BCR:H402	1.60	0.83
4:d:5130:PHE:HE2	4:d:5140:PRO:HB2	1.43	0.83
2:B:457:VAL:HG22	4:D:284:ILE:HG23	1.57	0.83
3:C:117:VAL:O	3:C:121:SER:HB2	1.79	0.83
3:C:315:MET:O	3:C:319:ILE:HG13	1.78	0.83
2:b:5426:ILE:HD12	2:b:5426:ILE:N	1.92	0.83
3:c:5058:GLY:CA	3:c:5125:LEU:HB3	2.08	0.83
23:c:6033:CLA:H141	23:c:6033:CLA:C17	2.08	0.83
1:A:213:ALA:O	1:A:217:SER:HB2	1.79	0.83
30:C:1056:DGD:HA52	30:C:1056:DGD:O1A	1.78	0.83
12:M:1:MET:H1	12:M:1:MET:CE	1.92	0.83
16:V:28:GLU:HA	16:V:28:GLU:OE2	1.78	0.83
1:a:5096:ILE:HA	1:a:5105:TRP:CD1	2.13	0.83
2:b:5024:THR:HG23	23:b:6013:CLA:HAC2	1.59	0.83
23:c:6031:CLA:O2D	23:c:6033:CLA:H8	1.76	0.83
3:C:124:VAL:HG23	3:C:125:LEU:H	1.43	0.83
23:C:1033:CLA:H141	23:C:1033:CLA:C17	2.08	0.83
3:c:5414:ILE:HG12	3:c:5415:ASN:N	1.94	0.83
23:c:6025:CLA:HMD3	23:c:6026:CLA:C4	2.09	0.83
4:d:5093:TRP:CZ2	23:d:6008:CLA:O1A	2.31	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:158:THR:O	3:C:251:HIS:HB3	1.79	0.83
3:C:288:CYS:SG	30:C:1055:DGD:HB21	2.19	0.83
5:E:35:TRP:CZ3	6:F:38:ALA:HB3	2.12	0.83
10:K:32:PHE:HE2	26:K:1051:BCR:H341	1.43	0.83
23:b:6021:CLA:OBD	23:b:6022:CLA:CMC	2.26	0.83
5:e:5012:ASP:OD1	5:e:5015:THR:HB	1.79	0.83
2:B:223:GLN:HB2	2:B:227:LYS:HZ2	1.44	0.83
23:B:1015:CLA:HBC2	23:B:1015:CLA:HHD	1.61	0.83
23:C:1027:CLA:CGD	23:C:1036:CLA:H11	2.08	0.83
23:C:1027:CLA:HED2	23:C:1036:CLA:H201	1.60	0.83
20:Z:55:GLY:HA2	26:Z:1053:BCR:C31	2.06	0.83
3:c:5350:ILE:HD13	3:c:5351:PHE:N	1.93	0.83
23:c:6031:CLA:HBA2	23:c:6033:CLA:HED2	1.58	0.83
11:l:5007:ARG:HA	11:l:5007:ARG:HE	1.41	0.83
1:A:42:LEU:O	1:A:46:ILE:HG23	1.78	0.83
23:C:1033:CLA:C9	23:C:1033:CLA:H121	2.09	0.83
4:D:48:TRP:HE3	4:D:49:LEU:HG	1.43	0.83
4:D:303:ILE:HD12	4:D:304:ARG:H	1.43	0.83
12:M:21:PHE:HA	12:M:24:ILE:HD12	1.59	0.83
1:a:5300:PHE:HB3	1:a:5302:PHE:HE1	1.40	0.83
23:b:6012:CLA:HHD	23:b:6012:CLA:HBC2	1.59	0.83
23:c:6034:CLA:HED3	10:k:5029:PRO:HB3	1.59	0.83
23:B:1019:CLA:CMB	23:B:1020:CLA:C1C	2.56	0.82
3:C:184:GLY:H	3:C:198:VAL:HG22	1.44	0.82
23:C:1027:CLA:CED	23:C:1036:CLA:C20	2.56	0.82
23:C:1031:CLA:H2	23:C:1031:CLA:HMA3	1.60	0.82
10:K:39:VAL:CG2	18:Y:36:ILE:HD11	2.08	0.82
13:O:169:LYS:HZ2	13:O:169:LYS:HB3	1.43	0.82
23:a:6007:CLA:CBC	23:a:6007:CLA:CHD	2.56	0.82
23:b:6011:CLA:CBB	23:b:6013:CLA:H192	2.09	0.82
23:b:6016:CLA:H143	23:d:6008:CLA:HHB	1.61	0.82
23:c:6026:CLA:HBB1	23:c:6026:CLA:HMB1	1.59	0.82
2:B:458:PHE:CD2	23:B:1012:CLA:HMC3	2.14	0.82
3:C:45:LEU:CD2	3:C:141:GLU:HG2	2.09	0.82
3:C:224:ILE:HD11	3:C:285:ILE:HD11	1.60	0.82
23:C:1025:CLA:HMD3	23:C:1026:CLA:C4	2.09	0.82
1:a:5181:ASN:HD22	4:d:5314:PHE:HD2	1.27	0.82
23:c:6027:CLA:CED	23:c:6036:CLA:C20	2.57	0.82
23:c:6031:CLA:HED3	23:c:6031:CLA:H2A	1.61	0.82
26:t:1046:BCR:H382	26:t:1046:BCR:H373	1.61	0.82
23:C:1025:CLA:H161	23:C:1031:CLA:HMB3	1.58	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:C:1034:CLA:HAA1	10:K:29:PRO:HB3	1.60	0.82
3:c:5139:THR:HG22	3:c:5141:GLU:H	1.44	0.82
23:c:6031:CLA:HED3	23:c:6031:CLA:CAA	2.08	0.82
9:j:5021:VAL:HG13	9:j:5022:ILE:H	1.41	0.82
1:A:58:VAL:H	1:A:68:SER:HB2	1.43	0.82
1:A:323:ARG:HG3	1:A:323:ARG:HH11	1.42	0.82
2:B:27:THR:CG2	23:B:1020:CLA:H11	2.08	0.82
2:B:414:PRO:HB2	2:B:415:PRO:HD3	1.60	0.82
5:E:35:TRP:CZ3	6:F:38:ALA:CB	2.63	0.82
3:c:5034:ALA:HB2	4:d:5230:SER:OG	1.78	0.82
23:c:6035:CLA:H13	10:k:5032:PHE:HZ	1.43	0.82
30:c:6055:DGD:HB72	30:c:6055:DGD:HB22	1.61	0.82
31:e:6040:HEM:HMA3	31:e:6040:HEM:O1A	1.80	0.82
23:B:1016:CLA:H143	23:D:1008:CLA:HHB	1.61	0.82
1:a:5051:ALA:O	1:a:5055:ALA:HB2	1.80	0.82
1:a:5177:SER:HA	1:a:5180:PHE:CD2	2.15	0.82
2:b:5149:GLY:HA2	2:b:5152:ALA:CB	2.10	0.82
2:b:5163:MET:HE3	2:b:5178:VAL:HG21	1.60	0.82
3:c:5045:LEU:CD2	3:c:5141:GLU:HG2	2.09	0.82
2:B:27:THR:HG23	23:B:1013:CLA:HAC2	1.59	0.82
3:C:206:PRO:O	3:C:210:PHE:HB2	1.79	0.82
10:K:28:ILE:CD1	26:K:1051:BCR:C9	2.54	0.82
1:a:5064:ARG:HG2	1:a:5064:ARG:HH21	1.43	0.82
2:B:487:SER:HB3	2:B:488:PRO:HD3	1.61	0.82
1:a:5166:GLY:HA3	3:c:5357:ARG:NH1	1.95	0.82
2:b:5238:SER:O	2:b:5242:VAL:HG23	1.79	0.82
23:b:6010:CLA:H101	23:b:6017:CLA:H203	1.62	0.82
3:c:5305:THR:HG23	3:c:5308:GLU:H	1.44	0.82
3:c:5318:LEU:HG	3:c:5328:VAL:HG11	1.62	0.82
1:A:60:ILE:CG2	1:A:83:VAL:HG13	2.09	0.82
23:C:1032:CLA:H92	23:C:1032:CLA:H51	1.62	0.82
4:D:134:ARG:HA	4:D:134:ARG:HE	1.43	0.82
13:O:119:LEU:H	13:O:155:THR:CG2	1.90	0.82
17:X:13:THR:HG22	17:X:15:SER:H	1.43	0.82
1:a:5219:VAL:CG2	4:d:5268:HIS:CD2	2.56	0.82
23:b:6010:CLA:HED3	23:b:6010:CLA:CAD	2.08	0.82
23:b:6023:CLA:H72	26:b:6048:BCR:C34	2.09	0.82
3:c:5199:ILE:H	3:c:5199:ILE:HD12	1.43	0.82
4:d:5052:THR:O	4:d:5076:VAL:HG11	1.80	0.82
16:v:5143:GLY:O	16:v:5147:VAL:HG23	1.79	0.82
2:B:75:TRP:CD1	2:B:92:SER:HG	1.97	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:277:THR:HG22	4:D:278:GLY:N	1.93	0.82
23:c:6027:CLA:CGD	23:c:6036:CLA:H11	2.08	0.82
15:u:5072:TYR:HB3	15:u:5073:PRO:HD3	1.61	0.82
1:A:116:ILE:HD11	1:A:158:PHE:HB3	1.62	0.82
3:c:5097:TRP:HZ3	3:c:5113:VAL:HG21	1.43	0.82
1:A:272:HIS:CD2	4:D:218:VAL:HG21	2.15	0.81
23:B:1012:CLA:HHD	23:B:1012:CLA:HBC2	1.62	0.81
23:B:1012:CLA:C1	23:B:1013:CLA:C1	2.58	0.81
23:B:1014:CLA:H122	23:B:1014:CLA:H93	1.59	0.81
23:B:1014:CLA:H102	26:B:1048:BCR:H311	1.62	0.81
23:C:1033:CLA:H18	23:C:1033:CLA:H143	1.62	0.81
31:E:1040:HEM:O1A	31:E:1040:HEM:HMA3	1.80	0.81
11:L:20:GLY:O	11:L:24:ILE:HG22	1.79	0.81
1:a:5199:GLN:NE2	1:a:5200:LEU:HG	1.94	0.81
3:c:5029:GLU:HG3	10:k:5045:PHE:O	1.79	0.81
30:c:6056:DGD:HA52	30:c:6056:DGD:O1A	1.78	0.81
1:A:208:GLY:HA3	1:A:279:ARG:HD2	1.62	0.81
2:B:464:PHE:CZ	29:B:1060:MGE:H4B1	2.13	0.81
23:B:1023:CLA:C4D	23:B:1024:CLA:CMC	2.59	0.81
4:D:207:GLY:HA3	4:D:275:PRO:HG3	1.62	0.81
12:M:9:ILE:CG2	12:m:5008:PHE:CZ	2.58	0.81
23:b:6015:CLA:HHD	23:b:6015:CLA:HBC2	1.61	0.81
3:c:5089:ILE:O	3:c:5092:ILE:HG13	1.79	0.81
15:u:5080:VAL:HG13	15:u:5127:ARG:HD3	1.62	0.81
1:A:187:GLN:HB2	23:A:1003:CLA:HAC2	1.62	0.81
1:A:214:MET:HE3	25:A:1043:PQ9:H143	1.62	0.81
2:B:138:MET:HB3	23:B:1023:CLA:HBC3	1.61	0.81
2:B:257:TRP:CH2	4:D:291:LEU:CG	2.63	0.81
23:B:1014:CLA:H172	26:B:1048:BCR:H312	1.61	0.81
23:B:1020:CLA:CBA	23:B:1020:CLA:CMA	2.34	0.81
23:B:1020:CLA:H13	23:B:1020:CLA:C9	2.05	0.81
23:B:1024:CLA:H2A	23:B:1024:CLA:O2A	1.79	0.81
11:L:26:VAL:HG21	29:L:1061:MGE:H261	1.61	0.81
29:L:1061:MGE:H7B1	29:L:1061:MGE:C3B	2.10	0.81
15:U:91:VAL:HG12	15:U:105:LEU:HD13	1.61	0.81
17:X:26:GLY:O	17:X:29:VAL:HG12	1.80	0.81
1:a:5200:LEU:HD13	1:a:5285:PHE:CD1	2.15	0.81
1:a:5279:ARG:HD2	1:a:5283:VAL:CG1	2.10	0.81
23:a:6003:CLA:CBB	23:a:6006:CLA:HMD2	2.11	0.81
23:a:6006:CLA:H2A	23:a:6006:CLA:O2D	1.80	0.81
23:a:6006:CLA:C7	23:a:6006:CLA:H2	2.11	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5002:TRP:HE3	23:b:6019:CLA:H42	1.45	0.81
2:b:5003:TYR:N	2:b:5003:TYR:CD2	2.41	0.81
23:b:6024:CLA:O2A	23:b:6024:CLA:H2A	1.79	0.81
23:c:6029:CLA:HMA2	23:c:6029:CLA:CBA	2.03	0.81
23:c:6035:CLA:H142	10:k:5032:PHE:HE1	1.44	0.81
23:c:6037:CLA:CGD	23:c:6037:CLA:HBA1	2.09	0.81
11:l:5015:THR:O	11:l:5019:LEU:HG	1.80	0.81
13:o:5066:ILE:HD12	13:o:5267:ALA:HB1	1.60	0.81
23:B:1023:CLA:H72	26:B:1048:BCR:C34	2.09	0.81
3:C:162:GLY:HA3	3:C:248:GLY:HA2	1.60	0.81
6:F:37:ILE:HG21	9:J:28:PHE:CE1	2.15	0.81
13:O:127:ILE:H	13:O:127:ILE:CD1	1.80	0.81
2:b:5322:PHE:HE1	11:l:5034:TYR:HB3	1.43	0.81
23:b:6023:CLA:C4D	23:b:6024:CLA:CMC	2.59	0.81
13:o:5119:LEU:N	13:o:5155:THR:HG22	1.96	0.81
23:B:1011:CLA:HMD1	23:B:1014:CLA:HBB1	1.63	0.81
26:B:1048:BCR:H331	26:B:1048:BCR:C8	2.10	0.81
23:C:1029:CLA:H52	23:C:1029:CLA:C1C	2.11	0.81
23:C:1035:CLA:H93	26:K:1052:BCR:H402	1.60	0.81
1:a:5057:PRO:HA	1:a:5068:SER:HB3	1.60	0.81
29:b:6060:MGE:H3G1	29:b:6060:MGE:O2D	1.81	0.81
23:c:6032:CLA:H152	23:c:6032:CLA:H193	1.62	0.81
23:c:6034:CLA:HED3	10:k:5029:PRO:CG	2.11	0.81
14:t:5001:MET:N	14:t:5004:ILE:CB	2.43	0.81
3:C:261:ARG:HG2	3:C:261:ARG:HH11	1.45	0.81
10:K:35:LEU:O	10:K:38:VAL:HG23	1.79	0.81
2:b:5145:LEU:N	2:b:5207:ILE:HD11	1.96	0.81
23:b:6014:CLA:CMA	23:b:6014:CLA:CGA	2.58	0.81
23:b:6019:CLA:HED2	23:b:6019:CLA:CBA	2.10	0.81
23:b:6022:CLA:C9	23:b:6022:CLA:H41	2.05	0.81
4:d:5266:TRP:CD1	29:d:6062:MGE:H3	1.99	0.81
26:t:1046:BCR:H371	26:t:1046:BCR:C27	2.09	0.81
1:A:247:ASN:HD22	1:A:250:ALA:H	1.27	0.81
23:B:1019:CLA:HED2	23:B:1019:CLA:CBA	2.10	0.81
3:C:78:GLU:OE1	3:C:104:GLU:HB2	1.81	0.81
12:M:9:ILE:H	12:M:9:ILE:HD12	1.46	0.81
14:T:1:MET:C	14:T:4:ILE:HG22	2.05	0.81
2:b:5103:LEU:HD11	26:b:6048:BCR:C14	2.10	0.81
23:b:6020:CLA:C13	23:b:6020:CLA:H8	2.01	0.81
4:d:5163:GLY:HA3	4:d:5290:ALA:HB1	1.62	0.81
23:A:1006:CLA:H2A	23:A:1006:CLA:O2D	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:384:ARG:HA	13:O:192:SER:OG	1.81	0.81
23:B:1014:CLA:CMA	23:B:1014:CLA:CGA	2.58	0.81
6:F:29:PRO:O	6:F:32:PHE:HB3	1.79	0.81
10:K:28:ILE:HD11	26:K:1051:BCR:C7	2.04	0.81
20:Z:13:VAL:HG13	20:Z:14:ILE:H	1.46	0.81
1:a:5159:LEU:HG	1:a:5163:ILE:HD11	1.62	0.81
23:b:6021:CLA:OBD	23:b:6022:CLA:CHC	2.29	0.81
23:b:6022:CLA:C7	23:b:6022:CLA:H142	2.01	0.81
23:c:6032:CLA:H92	23:c:6032:CLA:H51	1.62	0.81
5:e:5083:LEU:HD13	5:e:5083:LEU:H	1.46	0.81
2:B:45:PHE:O	2:B:47:PRO:HD3	1.81	0.81
2:B:464:PHE:HB2	4:D:280:TRP:CH2	2.16	0.81
23:B:1014:CLA:CMA	23:B:1014:CLA:O1A	2.29	0.81
7:H:53:LEU:HG	7:H:55:LEU:CD1	2.11	0.81
12:M:18:PRO:O	12:M:21:PHE:HB3	1.81	0.81
1:a:5021:VAL:HG21	1:a:5032:TRP:CH2	2.15	0.81
23:a:6006:CLA:H72	23:a:6006:CLA:H2	1.62	0.81
4:d:5304:ARG:HE	12:m:5001:MET:HE2	1.45	0.81
23:C:1028:CLA:HMA1	23:C:1028:CLA:CBA	2.11	0.81
23:C:1031:CLA:HED3	23:C:1031:CLA:H2A	1.61	0.81
30:C:1055:DGD:HB22	30:C:1055:DGD:HB72	1.61	0.81
30:C:1056:DGD:O1A	30:C:1056:DGD:HA41	1.81	0.81
3:c:5225:VAL:HA	3:c:5289:PHE:CE2	2.16	0.81
1:A:223:LEU:HD21	1:A:245:THR:OG1	1.80	0.80
23:A:1003:CLA:CBB	23:A:1006:CLA:HMD2	2.11	0.80
2:B:223:GLN:HB2	2:B:227:LYS:NZ	1.96	0.80
11:L:30:LEU:HD22	11:L:31:PHE:HD1	1.44	0.80
13:O:187:GLY:HA3	13:O:194:TYR:HD1	1.45	0.80
3:c:5350:ILE:HG13	3:c:5359:TRP:HB2	1.62	0.80
1:A:219:VAL:HG23	4:D:268:HIS:HB3	1.63	0.80
23:B:1012:CLA:H91	23:B:1012:CLA:C12	2.01	0.80
4:D:261:PHE:CE2	4:D:266:TRP:HD1	1.99	0.80
1:a:5215:HIS:O	1:a:5219:VAL:CG1	2.28	0.80
2:b:5461:PHE:HB2	4:d:5280:TRP:CZ2	2.16	0.80
23:b:6011:CLA:C12	26:h:6049:BCR:H322	2.10	0.80
23:b:6022:CLA:CHA	23:b:6022:CLA:O1A	2.30	0.80
26:b:6048:BCR:H331	26:b:6048:BCR:C8	2.10	0.80
4:d:5323:GLU:HG3	4:d:5326:ARG:HH22	1.42	0.80
1:A:84:PRO:HA	1:A:112:TYR:CD2	2.15	0.80
1:A:324:ALA:HB2	4:D:329:MET:SD	2.20	0.80
2:B:36:SER:OG	26:t:1046:BCR:H403	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:66:MET:CG	23:B:1013:CLA:HED1	2.11	0.80
23:B:1011:CLA:H202	7:H:38:PHE:HE2	1.43	0.80
18:Y:25:ILE:O	18:Y:28:ILE:HG12	1.80	0.80
3:c:5337:LEU:HA	13:o:5131:PRO:HG3	1.63	0.80
23:c:6035:CLA:H101	26:k:6052:BCR:C40	2.12	0.80
10:k:5035:LEU:HA	10:k:5038:VAL:HG23	1.62	0.80
13:o:5119:LEU:H	13:o:5155:THR:CG2	1.94	0.80
1:A:184:ILE:HG21	4:D:321:LEU:HD13	1.62	0.80
23:A:1006:CLA:C14	23:D:1004:CLA:H192	2.12	0.80
23:B:1022:CLA:C7	23:B:1022:CLA:H142	2.01	0.80
1:a:5091:LEU:CD1	1:a:5167:SER:HA	2.11	0.80
1:a:5271:LEU:O	1:a:5273:PHE:HD1	1.63	0.80
23:b:6019:CLA:C19	23:b:6021:CLA:C7	2.60	0.80
3:c:5406:SER:C	3:c:5407:VAL:HG23	2.05	0.80
30:c:6056:DGD:O1A	30:c:6056:DGD:HA41	1.81	0.80
4:d:5210:LEU:HA	4:d:5213:ILE:HG22	1.63	0.80
23:B:1009:CLA:HBA2	23:B:1009:CLA:CHA	2.11	0.80
23:B:1020:CLA:C13	23:B:1020:CLA:H8	2.02	0.80
26:B:1047:BCR:H343	26:B:1047:BCR:H322	1.63	0.80
4:D:195:PRO:HA	4:D:198:MET:CE	2.12	0.80
20:Z:9:LEU:C	20:Z:11:ALA:H	1.87	0.80
3:c:5075:PHE:CE2	3:c:5105:VAL:HG11	2.16	0.80
4:d:5302:GLU:HG3	13:o:5199:ALA:HB1	1.63	0.80
10:k:5012:PRO:HB2	10:k:5015:TYR:HD2	1.45	0.80
27:A:1063:LHG:H312	23:C:1034:CLA:H93	1.62	0.80
2:B:17:GLY:HA2	2:B:123:PHE:CE2	2.16	0.80
23:B:1012:CLA:H12	23:B:1013:CLA:C2	2.11	0.80
3:C:367:GLU:HB2	3:C:368:PRO:HD3	1.62	0.80
30:C:1056:DGD:O1A	30:C:1056:DGD:C4A	2.30	0.80
30:C:1056:DGD:CHA	30:C:1057:DGD:HA82	2.11	0.80
23:b:6014:CLA:H122	23:b:6014:CLA:H93	1.59	0.80
23:b:6014:CLA:CAA	23:b:6014:CLA:O2D	2.30	0.80
23:b:6014:CLA:H172	26:b:6048:BCR:H312	1.61	0.80
26:b:6045:BCR:C35	26:b:6047:BCR:C10	2.60	0.80
23:c:6031:CLA:H2	23:c:6031:CLA:HMA3	1.60	0.80
23:d:6008:CLA:H41	23:d:6008:CLA:C7	1.92	0.80
31:e:6040:HEM:O1A	31:e:6040:HEM:CMA	2.30	0.80
9:j:5015:THR:O	9:j:5019:MET:HG2	1.80	0.80
14:t:5001:MET:N	14:t:5004:ILE:CG1	2.44	0.80
15:u:5075:LEU:HD22	15:u:5105:LEU:HD21	1.63	0.80
23:B:1010:CLA:H101	23:H:1017:CLA:H203	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:C:1031:CLA:CED	23:C:1031:CLA:O1A	2.30	0.80
7:H:33:VAL:O	7:H:37:LEU:HD13	1.82	0.80
1:a:5227:THR:HG21	1:a:5232:SER:O	1.81	0.80
2:b:5100:LEU:CB	23:b:6014:CLA:H71	2.10	0.80
23:b:6011:CLA:HMD1	23:b:6014:CLA:HBB1	1.63	0.80
23:b:6011:CLA:OBD	23:b:6011:CLA:CED	2.30	0.80
23:b:6019:CLA:O1A	23:b:6019:CLA:C3A	2.30	0.80
6:f:5041:GLN:HE21	9:j:5031:GLY:HA3	1.44	0.80
2:B:148:LEU:N	2:B:210:ILE:HD11	1.97	0.80
23:B:1022:CLA:O1A	23:B:1022:CLA:CHA	2.30	0.80
23:B:1023:CLA:O1A	23:B:1023:CLA:C3A	2.30	0.80
23:b:6019:CLA:H193	23:b:6021:CLA:C5	2.12	0.80
23:c:6029:CLA:H52	23:c:6029:CLA:C1C	2.11	0.80
4:d:5083:ASN:H	4:d:5168:PHE:HD1	1.30	0.80
2:B:118:TRP:CH2	11:L:5:PRO:HD2	2.17	0.80
2:B:257:TRP:CH2	4:D:291:LEU:CB	2.64	0.80
23:B:1011:CLA:C12	26:H:1049:BCR:H322	2.10	0.80
3:C:75:PHE:CE2	3:C:105:VAL:HG11	2.17	0.80
16:V:160:LYS:HB2	16:V:160:LYS:HZ3	1.42	0.80
1:a:5188:ALA:HB2	1:a:5328:MET:HE3	1.64	0.80
23:a:6006:CLA:H171	26:d:6050:BCR:C30	2.12	0.80
30:c:6055:DGD:C1B	30:c:6055:DGD:HB51	2.10	0.80
29:d:6061:MGE:C3B	29:d:6061:MGE:H7B1	2.10	0.80
8:i:5004:LEU:O	8:i:5008:VAL:HG23	1.81	0.80
24:A:1039:PHO:H18	4:D:48:TRP:NE1	1.96	0.80
23:B:1011:CLA:OBD	23:B:1011:CLA:CED	2.30	0.80
23:C:1035:CLA:H101	26:K:1052:BCR:C40	2.11	0.80
30:C:1055:DGD:C1B	30:C:1055:DGD:HB51	2.10	0.80
16:V:48:THR:N	16:V:51:GLN:HE21	1.79	0.80
1:a:5202:VAL:HG11	23:a:6006:CLA:CAD	2.11	0.80
2:b:5321:LEU:HA	4:d:5293:LEU:CD1	2.10	0.80
23:c:6032:CLA:O1A	23:c:6032:CLA:C4	2.30	0.80
30:c:6056:DGD:CHA	30:c:6057:DGD:HA82	2.10	0.80
1:A:142:TRP:H	4:D:220:ASN:HD21	1.30	0.79
23:B:1014:CLA:O2D	23:B:1014:CLA:CAA	2.30	0.79
3:C:451:ALA:C	3:C:453:ALA:H	1.89	0.79
31:E:1040:HEM:HMB2	31:E:1040:HEM:HBB2	1.64	0.79
23:b:6014:CLA:CMA	23:b:6014:CLA:O1A	2.29	0.79
1:A:149:ALA:HB1	1:A:283:VAL:HG21	1.62	0.79
2:B:103:LEU:CB	23:B:1014:CLA:H71	2.08	0.79
23:B:1014:CLA:C19	23:B:1014:CLA:C15	2.44	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1021:CLA:O2A	23:B:1021:CLA:C2A	2.30	0.79
1:a:5159:LEU:O	1:a:5163:ILE:HG13	1.82	0.79
1:a:5172:MET:HE1	1:a:5179:THR:HG23	1.62	0.79
23:b:6023:CLA:O1A	23:b:6023:CLA:C3A	2.30	0.79
3:c:5169:GLY:CA	3:c:5245:ILE:HG12	2.11	0.79
23:c:6029:CLA:H192	23:c:6029:CLA:H111	1.64	0.79
23:c:6037:CLA:O1A	23:c:6037:CLA:C4A	2.30	0.79
11:l:5024:ILE:HD11	12:m:5018:PRO:HG2	1.64	0.79
1:A:39:PRO:HB2	23:A:1007:CLA:HAB	1.64	0.79
1:A:48:PHE:HB2	1:A:115:ILE:HD13	1.62	0.79
2:B:25:MET:CG	26:B:1045:BCR:H292	2.03	0.79
2:B:183:PRO:HB3	2:B:200:ALA:HB2	1.61	0.79
23:B:1019:CLA:C19	23:B:1021:CLA:C7	2.60	0.79
23:B:1019:CLA:O1A	23:B:1019:CLA:C3A	2.30	0.79
23:B:1022:CLA:C9	23:B:1022:CLA:H41	2.05	0.79
23:C:1032:CLA:O1A	23:C:1032:CLA:C4	2.30	0.79
4:D:274:VAL:CB	4:D:275:PRO:HD3	2.11	0.79
2:b:5004:ARG:HA	23:b:6019:CLA:HBA1	1.62	0.79
13:o:5223:ILE:HG12	13:o:5224:SER:H	1.45	0.79
1:A:95:PRO:CA	23:A:1007:CLA:HED1	2.05	0.79
1:A:247:ASN:HB3	1:A:250:ALA:HB3	1.64	0.79
4:D:261:PHE:CE1	25:D:1042:PQ9:H143	2.18	0.79
2:b:5227:ARG:NH1	2:b:5227:ARG:HA	1.97	0.79
23:c:6028:CLA:HMA1	23:c:6028:CLA:CBA	2.11	0.79
23:c:6037:CLA:HBA1	23:c:6037:CLA:CHA	2.10	0.79
4:d:5150:ILE:O	4:d:5154:VAL:HG23	1.82	0.79
1:A:90:GLY:C	1:A:92:HIS:H	1.88	0.79
1:A:307:ILE:HG13	1:A:308:ASP:H	1.47	0.79
26:B:1045:BCR:C35	26:B:1047:BCR:C10	2.60	0.79
3:C:459:ILE:HD12	3:C:459:ILE:N	1.97	0.79
31:E:1040:HEM:O1A	31:E:1040:HEM:CMA	2.30	0.79
2:b:5009:LEU:HB3	2:b:5016:LEU:HD23	1.65	0.79
2:b:5015:ARG:NH2	11:l:5006:ASN:HB2	1.97	0.79
3:c:5055:ALA:HB1	26:k:6052:BCR:H371	1.63	0.79
5:e:5028:PRO:O	5:e:5032:ILE:HG13	1.81	0.79
12:m:5032:GLN:HA	12:m:5032:GLN:HE21	1.46	0.79
13:o:5187:GLY:HA3	13:o:5194:TYR:HD1	1.48	0.79
15:u:5075:LEU:O	15:u:5079:ILE:HG13	1.83	0.79
1:A:90:GLY:HA3	1:A:167:SER:HB2	1.64	0.79
2:B:133:LEU:HB3	2:B:138:MET:CE	2.13	0.79
3:C:347:GLY:HA3	13:O:43:ASN:HB2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:C:1025:CLA:O1D	23:C:1025:CLA:CBA	2.30	0.79
23:C:1032:CLA:H193	23:C:1032:CLA:H152	1.62	0.79
5:E:38:VAL:CG1	6:F:39:ALA:HB3	2.12	0.79
1:a:5042:LEU:O	1:a:5046:ILE:HG23	1.83	0.79
1:a:5160:ILE:HD11	30:c:6055:DGD:HBH2	1.64	0.79
24:a:6039:PHO:CAB	23:d:6004:CLA:H12	2.13	0.79
4:d:5103:ARG:HH22	5:e:5080:LEU:HD12	1.48	0.79
10:k:5032:PHE:HE2	26:k:6052:BCR:C19	1.93	0.79
10:k:5040:GLN:HB3	10:k:5045:PHE:CE1	2.17	0.79
17:x:5024:LEU:HD12	17:x:5025:SER:N	1.98	0.79
1:A:206:PHE:CE2	23:D:1004:CLA:HBA2	2.18	0.79
23:B:1014:CLA:C16	23:B:1014:CLA:C11	2.40	0.79
29:D:1062:MGE:H3G1	11:L:15:THR:HG21	1.62	0.79
13:O:121:PHE:HB3	13:O:153:ALA:HB3	1.65	0.79
13:O:145:LEU:HD23	13:O:145:LEU:H	1.47	0.79
13:O:213:VAL:HG11	15:U:39:LEU:HD13	1.62	0.79
15:U:97:LEU:HB3	15:U:102:LYS:HG2	1.62	0.79
1:a:5037:MET:HB2	1:a:5125:CYS:HB3	1.65	0.79
23:c:6025:CLA:O1D	23:c:6025:CLA:CBA	2.30	0.79
30:c:6056:DGD:O1A	30:c:6056:DGD:C4A	2.30	0.79
12:m:5011:THR:O	12:m:5015:VAL:HG23	1.83	0.79
18:y:5006:MET:O	18:y:5010:ILE:HG23	1.83	0.79
23:B:1009:CLA:O2D	23:B:1009:CLA:CAA	2.30	0.79
23:C:1037:CLA:C4A	23:C:1037:CLA:O1A	2.30	0.79
23:b:6014:CLA:H102	26:b:6048:BCR:H311	1.62	0.79
23:b:6021:CLA:O2A	23:b:6021:CLA:C2A	2.30	0.79
13:o:5065:ARG:NH1	13:o:5109:GLY:H	1.81	0.79
1:A:81:ALA:HB1	1:A:175:GLY:HA3	1.64	0.79
24:A:1039:PHO:CAB	23:D:1004:CLA:H12	2.13	0.79
27:A:1063:LHG:O4	27:A:1063:LHG:C6	2.30	0.79
2:B:382:PRO:HG2	2:B:391:SER:HB2	1.63	0.79
3:C:287:THR:HG23	3:C:427:ALA:HA	1.65	0.79
3:C:384:ILE:HG23	3:C:384:ILE:O	1.83	0.79
23:C:1037:CLA:HBA1	23:C:1037:CLA:CHA	2.10	0.79
13:O:85:LYS:HD2	2:b:5402:GLU:HG2	1.65	0.79
1:a:5048:PHE:HB2	1:a:5115:ILE:HD13	1.62	0.79
23:b:6011:CLA:HBC2	23:b:6011:CLA:HMC1	1.65	0.79
23:c:6031:CLA:CED	23:c:6031:CLA:O1A	2.30	0.79
4:d:5209:LEU:HA	24:d:6038:PHO:HAC2	1.64	0.79
26:d:6050:BCR:C21	29:d:6059:MGE:H3A1	2.13	0.79
16:v:5162:TYR:O	16:v:5163:TYR:HB2	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:91:LEU:HD13	1:A:166:GLY:O	1.83	0.79
23:B:1019:CLA:H193	23:B:1021:CLA:C5	2.12	0.79
8:I:27:ASP:HB3	8:I:28:PRO:HD3	1.65	0.79
20:Z:16:SER:O	20:Z:20:VAL:HG23	1.82	0.79
1:a:5154:ALA:HB2	23:a:6003:CLA:H61	1.65	0.79
27:a:6063:LHG:O4	27:a:6063:LHG:C6	2.30	0.79
2:b:5182:TRP:CD1	2:b:5182:TRP:H	2.00	0.79
23:b:6014:CLA:O2D	23:b:6014:CLA:H2A	1.83	0.79
3:c:5140:LEU:HB3	3:c:5148:GLY:HA2	1.64	0.79
16:v:5081:ARG:HH11	16:v:5081:ARG:HG3	1.47	0.79
24:A:1038:PHO:C14	24:A:1038:PHO:H102	1.94	0.78
3:C:32:GLY:HA2	3:C:41:ARG:HH21	1.48	0.78
3:C:51:GLY:O	3:C:55:ALA:HB2	1.82	0.78
3:C:89:ILE:HB	3:C:90:PRO:HD3	1.64	0.78
1:a:5037:MET:HG3	1:a:5122:GLY:O	1.83	0.78
1:a:5060:ILE:CG1	1:a:5061:ASP:H	1.95	0.78
23:a:6006:CLA:HBC3	23:a:6006:CLA:CHD	2.12	0.78
2:b:5390:GLU:C	2:b:5393:GLY:H	1.91	0.78
3:c:5120:ILE:HG21	26:z:6053:BCR:H341	1.64	0.78
23:c:6025:CLA:CMD	23:c:6026:CLA:C4	2.62	0.78
1:A:90:GLY:HA2	1:A:167:SER:OG	1.84	0.78
23:B:1010:CLA:HED3	23:B:1010:CLA:CAD	2.08	0.78
3:C:157:MET:HB3	23:C:1031:CLA:HBC1	1.64	0.78
3:C:256:PRO:HB3	3:C:261:ARG:NH2	1.97	0.78
23:C:1034:CLA:HAA1	10:K:29:PRO:CB	2.13	0.78
29:L:1061:MGE:H6A1	12:M:22:LEU:HD21	1.65	0.78
12:M:20:VAL:CG2	12:m:5020:VAL:HG21	2.11	0.78
1:a:5180:PHE:O	1:a:5184:ILE:HG13	1.82	0.78
23:a:6003:CLA:C14	24:d:6038:PHO:H93	2.05	0.78
2:b:5240:ALA:HB2	2:b:5463:HIS:ND1	1.98	0.78
3:c:5128:GLY:HA3	23:c:6037:CLA:CAC	2.13	0.78
3:c:5162:GLY:CA	3:c:5248:GLY:HA2	2.13	0.78
23:d:6005:CLA:C4	25:d:6042:PQ9:H191	2.13	0.78
15:u:5082:ASN:HB2	15:u:5085:TYR:OH	1.83	0.78
1:A:279:ARG:NH2	24:A:1038:PHO:CAC	2.44	0.78
23:B:1023:CLA:C1D	23:B:1024:CLA:HBC2	2.12	0.78
3:C:346:THR:HG21	13:O:38:GLY:H	1.48	0.78
29:L:1061:MGE:O1B	29:L:1061:MGE:C1G	2.30	0.78
26:T:6046:BCR:H382	26:T:6046:BCR:H373	1.63	0.78
23:b:6011:CLA:C20	7:h:5038:PHE:HE2	1.95	0.78
7:h:5054:ILE:O	17:x:5013:THR:HG21	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k:5035:LEU:HA	10:k:5038:VAL:CG2	2.13	0.78
24:A:1038:PHO:CHD	24:A:1038:PHO:CBC	2.62	0.78
23:B:1011:CLA:H202	7:H:38:PHE:CE2	2.19	0.78
23:B:1021:CLA:OBD	23:B:1022:CLA:CHC	2.29	0.78
26:B:1047:BCR:H381	26:t:1046:BCR:C11	2.12	0.78
29:B:1060:MGE:H261	29:B:1060:MGE:H3A2	1.65	0.78
3:C:160:ILE:HA	3:C:163:PHE:HD2	1.48	0.78
16:V:38:LEU:HD22	16:V:45:ILE:HB	1.65	0.78
20:Z:10:ALA:C	20:Z:13:VAL:HG12	2.08	0.78
1:a:5060:ILE:CD1	1:a:5060:ILE:H	1.96	0.78
2:b:5098:ILE:HG23	26:b:6047:BCR:C37	2.14	0.78
2:b:5459:PHE:CE1	23:b:6012:CLA:HAC1	2.18	0.78
23:c:6025:CLA:C1B	23:c:6025:CLA:H43	2.14	0.78
4:d:5111:TRP:CD1	4:d:5173:PHE:CE2	2.71	0.78
13:o:5074:THR:HG22	13:o:5075:THR:HG23	1.65	0.78
17:x:5013:THR:HG22	17:x:5016:LEU:H	1.47	0.78
3:C:78:GLU:HA	3:C:78:GLU:OE2	1.83	0.78
14:T:1:MET:O	14:T:4:ILE:CG2	2.30	0.78
2:b:5388:SER:HB3	2:b:5391:GLN:CD	2.09	0.78
23:b:6011:CLA:CBB	23:b:6013:CLA:C20	2.45	0.78
13:o:5031:LEU:HD23	13:o:5031:LEU:H	1.48	0.78
16:v:5160:LYS:HB3	16:v:5160:LYS:HZ3	1.48	0.78
1:A:344:ALA:HB1	3:C:357:ARG:HH22	1.48	0.78
2:B:250:PHE:HZ	30:H:1058:DGD:HAG2	1.47	0.78
26:B:1048:BCR:C38	26:B:1048:BCR:C23	2.38	0.78
23:C:1029:CLA:H201	23:C:1030:CLA:C19	2.13	0.78
2:b:5028:ALA:HB2	23:b:6013:CLA:HBC3	1.66	0.78
1:A:279:ARG:HD3	4:D:208:ALA:CB	2.14	0.78
23:A:1003:CLA:C2D	23:D:1005:CLA:HBC1	2.14	0.78
2:B:91:TRP:HB3	23:B:1014:CLA:HED2	1.64	0.78
23:B:1014:CLA:O2D	23:B:1014:CLA:H2A	1.83	0.78
23:C:1029:CLA:H192	23:C:1029:CLA:H111	1.64	0.78
1:a:5278:TRP:HH2	30:c:6057:DGD:CIA	1.95	0.78
2:b:5146:LEU:HD22	23:b:6012:CLA:H143	1.65	0.78
23:b:6011:CLA:C1D	23:b:6013:CLA:H51	2.14	0.78
23:b:6016:CLA:C4A	23:b:6016:CLA:O1A	2.32	0.78
23:c:6035:CLA:H151	20:z:5020:VAL:HG13	1.64	0.78
10:k:5024:VAL:HG11	18:y:5007:ILE:HB	1.66	0.78
20:z:5037:LYS:O	20:z:5040:ILE:HB	1.83	0.78
1:A:278:TRP:HH2	30:C:1057:DGD:CIA	1.97	0.78
2:B:12:LEU:CB	2:B:19:LEU:HD23	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:156:PHE:HD2	2:B:156:PHE:N	1.81	0.78
2:B:456:ALA:HA	30:H:1058:DGD:HBG2	1.65	0.78
2:B:460:LEU:HA	30:H:1058:DGD:CIA	2.08	0.78
23:C:1034:CLA:H141	23:C:1034:CLA:H172	0.84	0.78
26:D:1050:BCR:C21	29:J:1059:MGE:H3A1	2.13	0.78
12:M:32:GLN:HA	12:M:32:GLN:HE21	1.48	0.78
23:a:6003:CLA:C3D	23:d:6005:CLA:HBC1	2.14	0.78
2:b:5462:GLY:N	23:b:6019:CLA:CBC	2.45	0.78
23:b:6017:CLA:H152	23:b:6017:CLA:H193	1.66	0.78
23:b:6023:CLA:C1D	23:b:6024:CLA:HBC2	2.12	0.78
31:e:6040:HEM:HMB2	31:e:6040:HEM:HBB2	1.64	0.78
23:A:1006:CLA:C2	23:A:1006:CLA:C7	2.62	0.78
2:B:464:PHE:CB	4:D:280:TRP:CH2	2.67	0.78
23:B:1016:CLA:O1A	23:B:1016:CLA:C4A	2.32	0.78
23:B:1022:CLA:HED2	23:B:1022:CLA:CAD	2.14	0.78
3:C:303:GLY:C	3:C:423:ARG:HD2	2.09	0.78
6:F:40:MET:HA	6:F:43:ILE:HD11	1.66	0.78
2:b:5065:ARG:HA	2:b:5164:TRP:HB2	1.66	0.78
23:b:6011:CLA:HBB2	23:b:6013:CLA:C17	2.13	0.78
23:b:6011:CLA:C4D	23:b:6013:CLA:H41	2.14	0.78
23:c:6026:CLA:HBB1	23:c:6026:CLA:CMB	2.13	0.78
8:i:5010:ILE:O	8:i:5013:THR:HG22	1.84	0.78
1:A:116:ILE:HG23	1:A:117:PHE:HD2	1.49	0.78
1:A:255:PHE:HB3	1:A:264:SER:OG	1.83	0.78
2:B:102:VAL:HG13	23:B:1014:CLA:H92	1.66	0.78
3:C:96:GLY:HA2	3:C:99:VAL:HG13	1.66	0.78
3:C:99:VAL:HG21	3:C:196:VAL:CG1	2.14	0.78
23:C:1036:CLA:H193	26:Z:1053:BCR:C37	2.14	0.78
23:C:1037:CLA:H143	23:C:1037:CLA:C10	2.14	0.78
4:D:186:GLN:HB2	23:D:1004:CLA:HBC1	1.65	0.78
10:K:39:VAL:HG22	18:Y:36:ILE:HD12	1.63	0.78
1:a:5340:PRO:HB3	15:u:5133:TYR:CD2	2.19	0.78
2:b:5451:ALA:C	2:b:5453:ALA:N	2.38	0.78
2:b:5462:GLY:HA2	2:b:5465:TRP:H	1.47	0.78
4:d:5090:LEU:HD23	4:d:5096:GLU:HG3	1.66	0.78
4:d:5210:LEU:HA	4:d:5213:ILE:CG2	2.14	0.78
2:B:74:SER:HB2	2:B:94:GLU:OE1	1.84	0.77
23:B:1020:CLA:H121	23:B:1020:CLA:C9	2.10	0.77
3:C:48:LYS:HD2	3:C:133:ALA:O	1.84	0.77
4:D:93:TRP:HZ2	23:D:1008:CLA:O1A	1.66	0.77
10:K:32:PHE:CE1	26:K:1052:BCR:C39	2.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:U:58:ASN:HD22	15:U:58:ASN:N	1.82	0.77
2:b:5351:LEU:HB3	2:b:5367:LEU:HD22	1.66	0.77
3:c:5120:ILE:O	3:c:5124:VAL:HG22	1.83	0.77
23:c:6033:CLA:CBA	23:c:6033:CLA:HMA1	2.13	0.77
23:c:6034:CLA:CED	10:k:5029:PRO:CB	2.60	0.77
23:B:1011:CLA:HBC2	23:B:1011:CLA:HMC1	1.65	0.77
23:B:1011:CLA:C1D	23:B:1013:CLA:H51	2.14	0.77
3:C:63:TRP:HB2	23:C:1034:CLA:CED	2.14	0.77
10:K:28:ILE:C	10:K:31:LEU:HD12	2.09	0.77
1:a:5029:TYR:HE2	1:a:5132:GLU:HB3	1.49	0.77
1:a:5081:ALA:HB2	1:a:5175:GLY:HA3	1.65	0.77
2:b:5138:ILE:N	2:b:5214:ILE:HD13	1.98	0.77
23:c:6033:CLA:C9	23:c:6033:CLA:H121	2.09	0.77
3:C:357:ARG:HB3	3:C:357:ARG:HH11	1.49	0.77
2:b:5103:LEU:C	2:b:5103:LEU:HD13	2.08	0.77
2:b:5370:LYS:C	2:b:5372:GLY:H	1.92	0.77
26:b:6047:BCR:H343	26:b:6047:BCR:H322	1.63	0.77
13:o:5121:PHE:HB3	13:o:5153:ALA:HB3	1.66	0.77
16:v:5154:ASP:C	16:v:5156:TRP:H	1.90	0.77
1:A:199:GLN:CD	30:C:1057:DGD:HBW2	2.09	0.77
2:B:277:SER:C	2:B:279:TYR:H	1.91	0.77
3:C:337:LEU:HA	13:O:131:PRO:HG3	1.64	0.77
23:C:1031:CLA:O2D	23:C:1033:CLA:C10	2.33	0.77
1:a:5021:VAL:HG23	1:a:5022:THR:HG23	1.65	0.77
2:b:5024:THR:CG2	23:b:6020:CLA:H11	2.15	0.77
23:B:1019:CLA:C2A	23:B:1019:CLA:O2D	2.30	0.77
23:C:1029:CLA:C4	23:C:1029:CLA:H191	2.15	0.77
23:H:1017:CLA:H152	23:H:1017:CLA:H193	1.65	0.77
12:M:11:THR:HG22	12:M:12:ALA:N	1.99	0.77
23:b:6009:CLA:O2D	23:b:6009:CLA:CAA	2.30	0.77
23:b:6023:CLA:H91	23:b:6023:CLA:H122	1.67	0.77
3:c:5079:LYS:HD3	3:c:5084:GLN:OE1	1.85	0.77
23:c:6035:CLA:H13	10:k:5032:PHE:CZ	2.19	0.77
23:c:6036:CLA:H193	26:z:6053:BCR:C37	2.14	0.77
26:c:6054:BCR:H393	26:c:6054:BCR:C27	2.14	0.77
16:v:5064:ALA:O	16:v:5068:VAL:CG2	2.32	0.77
20:z:5023:VAL:HA	20:z:5040:ILE:HD11	1.65	0.77
1:A:247:ASN:ND2	1:A:250:ALA:H	1.82	0.77
2:B:110:ALA:HB3	23:B:1024:CLA:HMB2	1.65	0.77
13:O:58:ILE:HG12	13:O:160:THR:O	1.85	0.77
2:b:5038:GLU:CD	2:b:5059:VAL:H	1.93	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6016:CLA:CHA	23:b:6016:CLA:HBA1	2.14	0.77
30:c:6056:DGD:HAV1	30:c:6057:DGD:C8A	2.14	0.77
16:v:5159:GLY:C	16:v:5160:LYS:HG3	2.09	0.77
1:A:134:SER:HB3	1:A:141:PRO:HA	1.65	0.77
1:A:215:HIS:O	1:A:219:VAL:HG13	1.85	0.77
2:B:192:PRO:HG2	7:H:49:TYR:CE1	2.18	0.77
3:C:135:ARG:HH12	20:Z:33:TRP:HB3	1.49	0.77
3:C:166:ILE:HA	3:C:245:ILE:HD13	1.64	0.77
23:C:1025:CLA:C4	23:C:1025:CLA:C1B	2.62	0.77
20:Z:37:LYS:NZ	20:Z:38:GLN:HG2	1.99	0.77
1:a:5214:MET:HE1	24:a:6039:PHO:CGD	2.15	0.77
2:b:5461:PHE:CE2	29:b:6060:MGE:C4B	2.68	0.77
3:c:5206:PRO:O	3:c:5210:PHE:HB2	1.83	0.77
23:c:6034:CLA:CBC	23:c:6034:CLA:CHD	2.53	0.77
30:c:6056:DGD:HB51	9:j:5029:PHE:CE1	2.17	0.77
10:k:5020:PRO:O	18:y:5003:GLN:HG3	1.85	0.77
1:A:37:MET:HG2	1:A:41:LEU:CD2	2.15	0.77
2:B:465:GLY:HA2	2:B:468:TRP:H	1.50	0.77
23:B:1022:CLA:CHD	23:B:1022:CLA:HBC2	2.05	0.77
23:C:1025:CLA:CMD	23:C:1026:CLA:C4	2.62	0.77
10:K:32:PHE:CE1	26:K:1052:BCR:C21	2.68	0.77
12:M:20:VAL:HG21	12:m:5020:VAL:CG2	2.14	0.77
13:O:173:ASN:OD1	13:O:220:LYS:HE2	1.84	0.77
26:T:6046:BCR:C11	26:b:6047:BCR:H381	2.15	0.77
23:a:6003:CLA:C2D	23:d:6005:CLA:HBC1	2.14	0.77
23:b:6010:CLA:O1D	23:b:6010:CLA:C2A	2.33	0.77
3:c:5175:LEU:HD12	3:c:5237:HIS:CD2	2.20	0.77
23:c:6032:CLA:HED3	23:c:6032:CLA:C1A	2.14	0.77
4:d:5254:SER:HB2	14:t:5024:ARG:NH1	1.99	0.77
11:l:5027:LEU:HD12	12:m:5014:PHE:CZ	2.19	0.77
20:z:5005:PHE:CD1	20:z:5057:LEU:HD22	2.19	0.77
23:A:1003:CLA:C3D	23:D:1005:CLA:HBC1	2.14	0.77
2:B:66:MET:HB3	2:B:71:VAL:HG13	1.67	0.77
2:B:153:PHE:N	23:B:1014:CLA:HMC1	1.99	0.77
23:B:1012:CLA:CBC	23:B:1012:CLA:CHD	2.63	0.77
23:C:1025:CLA:C1B	23:C:1025:CLA:H43	2.14	0.77
1:a:5060:ILE:O	1:a:5086:SER:HA	1.85	0.77
1:a:5075:ASN:HB2	14:t:5003:THR:CG2	2.06	0.77
1:a:5142:TRP:N	4:d:5220:ASN:ND2	2.32	0.77
4:d:5072:ASN:O	4:d:5076:VAL:HG23	1.85	0.77
13:o:5230:VAL:CG1	13:o:5237:ILE:HG22	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:5034:LEU:HB3	16:v:5047:LEU:HB2	1.66	0.77
2:B:448:ARG:HB2	2:B:448:ARG:HH11	1.50	0.77
23:B:1011:CLA:C4D	23:B:1013:CLA:H41	2.14	0.77
23:B:1014:CLA:HMA1	23:B:1014:CLA:CGA	2.15	0.77
23:C:1028:CLA:O2A	30:C:1056:DGD:HG11	1.85	0.77
26:D:1050:BCR:H373	29:J:1059:MGE:H4A2	0.81	0.77
3:c:5337:LEU:HD13	3:c:5342:MET:CE	2.15	0.77
23:c:6029:CLA:H191	23:c:6029:CLA:C4	2.15	0.77
4:d:5291:LEU:C	4:d:5293:LEU:H	1.93	0.77
13:o:5109:GLY:HA3	13:o:5123:GLU:HA	1.65	0.77
1:A:90:GLY:CA	1:A:167:SER:HB2	2.14	0.76
3:C:88:LEU:HD21	23:C:1027:CLA:CBC	2.14	0.76
3:C:311:GLN:NE2	3:C:351:PHE:HD2	1.83	0.76
23:C:1025:CLA:CMD	23:C:1026:CLA:H43	2.15	0.76
23:C:1026:CLA:HBB1	23:C:1026:CLA:CMB	2.13	0.76
26:C:1054:BCR:H393	26:C:1054:BCR:C27	2.14	0.76
30:C:1056:DGD:HBG3	30:C:1056:DGD:HBF2	1.67	0.76
10:K:39:VAL:CG2	18:Y:36:ILE:CD1	2.62	0.76
15:U:82:ASN:HB2	15:U:85:TYR:OH	1.86	0.76
16:V:85:LEU:HB3	16:V:92:ARG:O	1.85	0.76
1:a:5085:SER:OG	1:a:5168:PHE:HB2	1.85	0.76
1:a:5099:ALA:HA	1:a:5104:GLU:OE2	1.86	0.76
23:b:6009:CLA:HBA2	23:b:6009:CLA:CHA	2.11	0.76
4:d:5043:LEU:HB3	4:d:5113:PHE:HZ	1.50	0.76
4:d:5256:ILE:HG23	4:d:5257:PHE:N	1.98	0.76
2:B:120:LEU:O	2:B:123:PHE:HB2	1.84	0.76
2:B:423:LYS:O	2:B:429:ILE:HG13	1.85	0.76
23:B:1016:CLA:HBA1	23:B:1016:CLA:CHA	2.14	0.76
3:C:95:LEU:HD22	3:C:95:LEU:N	1.99	0.76
23:C:1032:CLA:HED3	23:C:1032:CLA:C1A	2.14	0.76
26:K:1052:BCR:H331	26:K:1052:BCR:C8	2.16	0.76
13:O:129:PHE:O	13:O:130:GLN:HG2	1.84	0.76
1:a:5116:ILE:HD11	1:a:5158:PHE:HB3	1.67	0.76
23:b:6022:CLA:C4A	23:b:6022:CLA:HBA2	2.15	0.76
4:d:5253:TRP:HB2	4:d:5260:ALA:HB2	1.67	0.76
6:f:5011:VAL:HG12	6:f:5012:SER:H	1.50	0.76
1:A:27:ARG:O	1:A:28:LEU:HD23	1.86	0.76
1:A:196:PRO:HB2	30:C:1057:DGD:HA81	1.66	0.76
1:A:279:ARG:HH22	24:A:1038:PHO:CAC	1.94	0.76
2:B:426:PHE:HZ	13:O:201:PRO:HB3	1.50	0.76
23:B:1016:CLA:CGA	23:B:1016:CLA:C1A	2.63	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:239:TRP:O	3:C:243:ILE:HG13	1.85	0.76
3:C:305:THR:CG2	3:C:308:GLU:HB2	2.16	0.76
7:H:22:ALA:HB1	7:H:23:PRO:HD2	1.66	0.76
1:a:5128:GLY:C	1:a:5130:GLN:H	1.94	0.76
1:a:5317:TRP:N	4:d:5063:LEU:HD21	2.01	0.76
3:c:5262:ARG:HB3	3:c:5262:ARG:NH1	2.00	0.76
3:c:5455:PHE:HZ	8:i:5031:ASN:HB2	1.50	0.76
13:o:5177:TYR:C	13:o:5178:ARG:HG2	2.10	0.76
15:u:5092:LEU:HD12	15:u:5092:LEU:H	1.50	0.76
1:A:210:LEU:CD2	23:A:1006:CLA:H41	2.16	0.76
23:A:1003:CLA:C19	24:A:1038:PHO:HMA2	2.15	0.76
3:C:343:ARG:HH11	3:C:343:ARG:HG3	1.50	0.76
4:D:45:LEU:HD13	4:D:45:LEU:C	2.10	0.76
26:D:1050:BCR:C21	29:J:1059:MGE:C3A	2.64	0.76
6:F:41:GLN:HE22	9:J:27:LEU:HB3	1.47	0.76
13:O:169:LYS:HB3	13:O:169:LYS:NZ	1.99	0.76
23:a:6003:CLA:C19	24:d:6038:PHO:HMA2	2.15	0.76
23:b:6014:CLA:HMA1	23:b:6014:CLA:CGA	2.15	0.76
23:c:6025:CLA:C4	23:c:6025:CLA:C1B	2.62	0.76
23:c:6031:CLA:O2D	23:c:6033:CLA:C10	2.33	0.76
30:c:6055:DGD:HB72	30:c:6055:DGD:C3B	2.15	0.76
10:k:5028:ILE:CD1	18:y:5010:ILE:HD12	2.16	0.76
23:B:1010:CLA:O1D	23:B:1010:CLA:C2A	2.33	0.76
13:O:178:ARG:HD3	13:O:182:PHE:CD2	2.20	0.76
1:a:5058:VAL:H	1:a:5068:SER:HB2	1.49	0.76
2:b:5142:LEU:O	2:b:5145:LEU:HD23	1.85	0.76
2:b:5413:THR:O	2:b:5416:SER:HB3	1.85	0.76
23:b:6019:CLA:C2A	23:b:6019:CLA:O2D	2.30	0.76
23:c:6028:CLA:O2A	30:c:6056:DGD:HG11	1.85	0.76
23:c:6029:CLA:H201	23:c:6030:CLA:C19	2.13	0.76
4:d:5283:ALA:O	4:d:5287:VAL:HG13	1.85	0.76
24:d:6038:PHO:CHD	24:d:6038:PHO:CBC	2.62	0.76
11:l:5021:LEU:O	11:l:5024:ILE:HG22	1.85	0.76
13:o:5218:LEU:HD13	15:u:5119:THR:HG21	1.66	0.76
1:A:200:LEU:HA	1:A:203:ALA:HB3	1.66	0.76
3:C:263:ALA:H	8:I:28:PRO:HG2	1.51	0.76
23:C:1033:CLA:HBC3	23:C:1033:CLA:CHD	2.12	0.76
23:C:1033:CLA:CBA	23:C:1033:CLA:HMA1	2.13	0.76
23:C:1034:CLA:H43	23:C:1034:CLA:O1A	1.86	0.76
30:C:1055:DGD:HB72	30:C:1055:DGD:C3B	2.15	0.76
4:D:89:LEU:HG	4:D:91:LEU:HD13	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:236:ASN:HB3	4:D:237:PRO:HA	1.67	0.76
4:D:251:ARG:HE	4:D:255:GLN:HE22	1.29	0.76
10:K:32:PHE:HD1	26:K:1052:BCR:H393	1.49	0.76
15:U:41:ASN:HB3	15:U:44:ASP:OD2	1.86	0.76
16:V:82:THR:HA	16:V:85:LEU:HD12	1.67	0.76
23:b:6012:CLA:C10	23:b:6023:CLA:H42	2.14	0.76
23:b:6016:CLA:CGA	23:b:6016:CLA:C1A	2.63	0.76
3:c:5108:THR:HG21	10:k:5010:LYS:HD2	1.66	0.76
26:d:6050:BCR:C21	29:d:6059:MGE:C3A	2.64	0.76
4:D:72:ASN:ND2	4:D:74:LEU:H	1.83	0.76
15:U:101:GLN:O	15:U:105:LEU:HG	1.85	0.76
1:a:5273:PHE:CD2	4:d:5219:GLU:CA	2.69	0.76
3:c:5293:ASN:O	3:c:5297:TYR:HB2	1.85	0.76
23:c:6025:CLA:CMD	23:c:6026:CLA:H43	2.15	0.76
7:h:5037:LEU:O	7:h:5040:VAL:HG12	1.86	0.76
23:A:1003:CLA:H193	24:A:1038:PHO:HMA2	1.68	0.76
2:B:257:TRP:CH2	4:D:291:LEU:HD12	2.20	0.76
23:B:1012:CLA:H102	23:B:1023:CLA:C1	2.16	0.76
23:B:1023:CLA:H91	23:B:1023:CLA:H122	1.67	0.76
3:C:34:ALA:HB2	4:D:230:SER:OG	1.85	0.76
8:I:33:LYS:HB3	8:I:35:LYS:HE3	1.67	0.76
1:a:5174:LEU:HB3	24:d:6038:PHO:H172	1.68	0.76
3:c:5348:GLU:CD	3:c:5359:TRP:HZ3	1.93	0.76
23:c:6030:CLA:H43	26:c:6054:BCR:H323	1.67	0.76
23:c:6037:CLA:H143	23:c:6037:CLA:C10	2.14	0.76
4:d:5113:PHE:CD1	4:d:5113:PHE:C	2.61	0.76
1:A:140:ARG:C	4:D:220:ASN:HD22	1.93	0.76
3:C:34:ALA:O	3:C:38:GLY:HA2	1.86	0.76
23:C:1029:CLA:C15	23:C:1029:CLA:C19	2.30	0.76
23:C:1029:CLA:C20	23:C:1030:CLA:C19	2.64	0.76
7:H:12:ARG:HB3	7:H:12:ARG:HH11	1.49	0.76
27:a:6063:LHG:C32	23:c:6034:CLA:H93	2.15	0.76
2:b:5107:ALA:HB3	23:b:6024:CLA:HMB2	1.68	0.76
2:b:5455:PHE:HB3	23:b:6012:CLA:HMC1	1.68	0.76
23:b:6009:CLA:CGD	23:b:6009:CLA:HAA1	2.15	0.76
23:b:6023:CLA:HHC	23:b:6023:CLA:HBB1	1.68	0.76
23:d:6005:CLA:HED3	25:d:6042:PQ9:H391	1.67	0.76
1:A:99:ALA:HA	1:A:104:GLU:OE2	1.85	0.76
2:B:113:TRP:CD1	26:B:1048:BCR:H373	2.20	0.76
2:B:458:PHE:HB3	23:B:1012:CLA:HMC1	1.66	0.76
23:B:1022:CLA:OBD	23:B:1022:CLA:CED	2.30	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:C:1034:CLA:H41	23:C:1034:CLA:H71	1.39	0.76
5:E:83:LEU:H	5:E:83:LEU:HD13	1.49	0.76
13:O:151:LEU:HA	13:O:171:GLU:O	1.86	0.76
14:T:2:GLU:HB2	14:T:6:TYR:HE2	1.51	0.76
1:a:5093:PHE:HE1	30:c:6055:DGD:HAG2	1.51	0.76
23:a:6003:CLA:H193	24:d:6038:PHO:HMA2	1.68	0.76
23:b:6011:CLA:H143	23:b:6011:CLA:H101	1.68	0.76
23:b:6022:CLA:CHD	23:b:6022:CLA:HBC2	2.05	0.76
23:c:6029:CLA:C20	23:c:6030:CLA:C19	2.64	0.76
4:d:5264:LYS:CD	4:d:5268:HIS:HE1	1.97	0.76
2:B:156:PHE:N	2:B:156:PHE:CD2	2.53	0.75
2:B:464:PHE:CE2	29:B:1060:MGE:C4B	2.63	0.75
23:B:1013:CLA:CBB	23:B:1023:CLA:C4	2.64	0.75
30:C:1056:DGD:HAV1	30:C:1057:DGD:C8A	2.14	0.75
4:D:148:ALA:HA	4:D:280:TRP:HD1	1.48	0.75
5:E:50:PRO:HB3	5:E:54:SER:O	1.86	0.75
10:K:32:PHE:CZ	26:K:1052:BCR:C20	2.68	0.75
13:O:73:PRO:HA	13:O:263:GLY:HA3	1.67	0.75
1:a:5225:ARG:HB3	2:b:5481:PRO:CG	2.16	0.75
1:a:5247:ASN:HD22	1:a:5250:ALA:H	1.34	0.75
3:c:5179:ALA:HB1	3:c:5199:ILE:HD13	1.67	0.75
23:c:6035:CLA:H122	10:k:5032:PHE:HE1	1.51	0.75
26:c:6054:BCR:C38	26:c:6054:BCR:C23	2.37	0.75
11:l:5036:PHE:CE1	12:m:5008:PHE:N	2.54	0.75
16:v:5064:ALA:O	16:v:5068:VAL:HG23	1.86	0.75
20:z:5023:VAL:HB	20:z:5024:PRO:HD3	1.67	0.75
4:D:67:TYR:CE1	29:J:1059:MGE:H1G1	2.22	0.75
1:a:5075:ASN:HB3	14:t:5003:THR:HG22	1.66	0.75
2:b:5050:ASN:HD21	2:b:5055:GLN:NE2	1.84	0.75
2:b:5220:GLN:HG3	2:b:5221:ARG:N	2.00	0.75
23:b:6019:CLA:HMB3	23:b:6020:CLA:C1C	2.16	0.75
3:c:5130:VAL:HG12	3:c:5134:ILE:HD13	1.67	0.75
30:c:6056:DGD:HG12	30:c:6056:DGD:C2B	2.01	0.75
30:c:6056:DGD:HBG3	30:c:6056:DGD:HBF2	1.67	0.75
13:o:5145:LEU:HD23	13:o:5145:LEU:H	1.52	0.75
17:x:5024:LEU:HD12	17:x:5024:LEU:C	2.09	0.75
1:A:82:VAL:HB	1:A:174:LEU:HG	1.68	0.75
23:A:1006:CLA:HBC3	23:A:1006:CLA:CHD	2.12	0.75
2:B:17:GLY:CA	2:B:123:PHE:HE2	2.00	0.75
23:B:1019:CLA:HMB3	23:B:1020:CLA:C1C	2.17	0.75
3:C:322:GLN:NE2	3:C:381:LYS:HD3	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:Z:9:LEU:HD13	20:Z:10:ALA:N	2.02	0.75
23:b:6009:CLA:H11	26:h:6049:BCR:H351	1.68	0.75
23:b:6012:CLA:HED2	23:b:6012:CLA:H2A	1.68	0.75
23:c:6031:CLA:H141	23:c:6031:CLA:H172	1.68	0.75
4:d:5261:PHE:HD1	25:d:6042:PQ9:H12	1.52	0.75
23:A:1006:CLA:CMB	24:A:1039:PHO:C16	2.58	0.75
2:B:326:ARG:HB3	2:B:444:ARG:CG	2.16	0.75
23:B:1011:CLA:H143	23:B:1011:CLA:H101	1.68	0.75
3:C:48:LYS:HD2	3:C:133:ALA:C	2.12	0.75
3:C:76:ILE:HG23	3:C:77:PRO:CD	2.16	0.75
12:M:9:ILE:CD1	12:m:5009:ILE:CD1	2.49	0.75
12:M:26:TYR:O	12:M:29:THR:HB	1.86	0.75
15:U:44:ASP:HA	15:U:47:LEU:HG	1.69	0.75
17:X:42:GLN:O	17:X:43:ILE:HG13	1.87	0.75
1:a:5192:ILE:HG13	1:a:5293:MET:CE	2.15	0.75
4:d:5258:GLY:O	4:d:5259:ILE:HD13	1.86	0.75
29:d:6061:MGE:O1B	29:d:6061:MGE:C1G	2.30	0.75
8:i:5033:LYS:HB3	8:i:5035:LYS:HE3	1.66	0.75
2:B:297:THR:HG23	2:B:300:GLU:H	1.51	0.75
23:B:1011:CLA:HBB2	23:B:1013:CLA:C17	2.13	0.75
4:D:292:ASN:O	4:D:294:ARG:HD3	1.87	0.75
1:a:5033:PHE:CD2	1:a:5128:GLY:HA3	2.20	0.75
2:b:5153:PHE:HB2	23:b:6014:CLA:HAC2	1.68	0.75
2:b:5216:VAL:O	7:h:5020:LYS:NZ	2.20	0.75
2:b:5219:PRO:HG2	2:b:5222:LEU:HD12	1.69	0.75
23:d:6005:CLA:C16	29:d:6062:MGE:H261	2.16	0.75
29:d:6061:MGE:H6A1	12:m:5022:LEU:HD21	1.67	0.75
13:o:5209:ALA:HA	13:o:5212:ASN:HD22	1.51	0.75
1:A:328:MET:HB3	4:D:325:ILE:CD1	2.16	0.75
2:B:238:LEU:O	2:B:242:ILE:HG13	1.87	0.75
4:D:209:LEU:HD23	4:D:209:LEU:C	2.11	0.75
4:D:256:ILE:HG23	4:D:257:PHE:H	1.49	0.75
17:X:43:ILE:HG22	17:X:43:ILE:O	1.86	0.75
1:a:5278:TRP:CH2	30:c:6057:DGD:HAG1	2.21	0.75
2:b:5130:LEU:HD23	7:h:5015:ASN:ND2	2.01	0.75
2:b:5396:VAL:HG13	2:b:5414:VAL:CG2	2.15	0.75
23:b:6010:CLA:HMD2	23:b:6011:CLA:H51	1.69	0.75
23:b:6011:CLA:H121	26:h:6049:BCR:C32	2.15	0.75
23:c:6027:CLA:HED1	23:c:6036:CLA:H203	1.67	0.75
23:c:6031:CLA:O1D	23:c:6033:CLA:H142	1.86	0.75
16:v:5111:GLU:CG	16:v:5112:GLN:H	1.99	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:z:5001:MET:HE2	20:z:5057:LEU:CD2	2.17	0.75
1:A:57:PRO:HG2	13:O:141:ARG:NH1	2.02	0.75
1:A:174:LEU:HB3	24:A:1038:PHO:H172	1.68	0.75
27:A:1063:LHG:H322	23:C:1034:CLA:C9	2.17	0.75
2:B:460:LEU:HD23	4:D:280:TRP:CZ3	2.22	0.75
23:B:1021:CLA:H203	23:B:1021:CLA:H141	1.68	0.75
23:C:1027:CLA:HED1	23:C:1036:CLA:H203	1.67	0.75
23:C:1031:CLA:HMA1	23:C:1031:CLA:C2	2.10	0.75
23:C:1037:CLA:O2D	23:C:1037:CLA:CAA	2.30	0.75
11:L:36:PHE:HD2	14:T:6:TYR:OH	1.70	0.75
1:a:5090:GLY:HA2	1:a:5167:SER:OG	1.87	0.75
2:b:5063:MET:HG2	23:b:6013:CLA:HED1	1.67	0.75
2:b:5329:LYS:HG3	2:b:5441:ARG:NH2	2.02	0.75
3:c:5076:ILE:HG23	3:c:5077:PRO:CD	2.15	0.75
23:c:6025:CLA:HAA1	23:c:6025:CLA:O1D	1.86	0.75
23:c:6029:CLA:H42	26:c:6054:BCR:H333	1.69	0.75
23:c:6033:CLA:H18	23:c:6033:CLA:H143	1.62	0.75
23:c:6034:CLA:H42	23:c:6034:CLA:O2A	1.87	0.75
4:d:5051:GLY:HA2	4:d:5055:VAL:HG23	1.68	0.75
23:d:6005:CLA:H93	24:d:6038:PHO:HHB	1.69	0.75
13:o:5216:PHE:HB3	15:u:5120:ALA:HB2	1.68	0.75
1:A:54:ALA:CB	1:A:72:LEU:HD12	2.13	0.75
24:A:1038:PHO:HHB	23:D:1005:CLA:H93	1.69	0.75
3:C:163:PHE:CG	23:C:1036:CLA:HBB1	2.21	0.75
3:C:236:GLY:HA3	26:C:1054:BCR:H391	1.66	0.75
23:C:1031:CLA:CGD	23:C:1031:CLA:CAA	2.65	0.75
23:b:6014:CLA:HMA1	23:b:6014:CLA:HBA1	0.77	0.75
3:c:5202:PRO:HB2	3:c:5235:GLY:HA2	1.69	0.75
23:c:6037:CLA:CGD	23:c:6037:CLA:CAA	2.65	0.75
10:k:5034:ALA:CB	26:k:6051:BCR:C18	2.64	0.75
1:A:296:ASN:ND2	3:C:401:LEU:HG	2.02	0.75
2:B:224:ARG:HB3	7:H:25:TRP:HB3	1.69	0.75
3:C:179:ALA:HA	3:C:184:GLY:HA2	1.68	0.75
23:C:1025:CLA:C2B	23:C:1025:CLA:H41	2.17	0.75
4:D:148:ALA:HA	4:D:280:TRP:CD1	2.22	0.75
8:I:10:ILE:O	8:I:13:THR:HG22	1.87	0.75
1:a:5269:ARG:NH1	4:d:5231:THR:HG23	1.99	0.75
2:b:5465:TRP:HD1	2:b:5466:HIS:HD1	1.35	0.75
3:c:5079:LYS:HE2	3:c:5083:GLU:HB3	1.68	0.75
4:d:5186:GLN:HB2	23:d:6004:CLA:HBC1	1.67	0.75
8:i:5006:ILE:HD13	8:i:5006:ILE:N	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:128:GLY:C	1:A:130:GLN:H	1.95	0.74
27:A:1063:LHG:C32	23:C:1034:CLA:H93	2.17	0.74
2:B:66:MET:HG2	23:B:1013:CLA:HED1	1.67	0.74
23:B:1011:CLA:CBB	23:B:1013:CLA:C20	2.45	0.74
3:C:449:ARG:CZ	23:C:1029:CLA:HED2	2.16	0.74
23:C:1031:CLA:O1D	23:C:1033:CLA:H142	1.86	0.74
23:C:1037:CLA:CGD	23:C:1037:CLA:CAA	2.65	0.74
23:D:1005:CLA:C16	29:D:1062:MGE:H261	2.16	0.74
1:a:5219:VAL:HG11	4:d:5268:HIS:CD2	2.21	0.74
2:b:5063:MET:CG	23:b:6013:CLA:HED1	2.17	0.74
2:b:5103:LEU:HD12	26:b:6048:BCR:H352	1.67	0.74
2:B:20:ILE:HG12	23:B:1023:CLA:HMD2	1.70	0.74
3:C:262:ARG:HB3	3:C:262:ARG:HH11	1.51	0.74
4:D:148:ALA:HB2	4:D:276:VAL:HG13	1.67	0.74
5:E:19:TYR:CD1	5:E:20:TRP:HD1	2.05	0.74
7:H:11:LEU:O	7:H:14:LEU:HD13	1.87	0.74
1:a:5279:ARG:NE	1:a:5283:VAL:HB	2.01	0.74
23:a:6003:CLA:C17	24:d:6038:PHO:H43	2.17	0.74
3:c:5236:GLY:HA3	26:c:6054:BCR:H391	1.68	0.74
14:t:5002:GLU:O	14:t:5006:TYR:CE2	2.40	0.74
23:B:1011:CLA:H122	23:B:1011:CLA:C9	2.17	0.74
23:B:1011:CLA:H191	23:H:1017:CLA:C15	2.17	0.74
23:B:1022:CLA:O1D	23:B:1022:CLA:CAA	2.30	0.74
26:a:6044:BCR:HC8	26:a:6044:BCR:H331	1.69	0.74
23:b:6012:CLA:H102	23:b:6023:CLA:C1	2.17	0.74
23:b:6013:CLA:CBB	23:b:6023:CLA:C4	2.64	0.74
3:c:5297:TYR:HA	3:c:5302:TYR:HE2	1.52	0.74
1:A:89:ILE:HD13	13:O:99:ARG:HD2	1.69	0.74
3:C:160:ILE:O	3:C:163:PHE:HB2	1.88	0.74
30:C:1055:DGD:HB72	30:C:1055:DGD:C2B	2.18	0.74
4:D:92:LEU:HB3	4:D:93:TRP:CE3	2.22	0.74
15:U:99:GLU:CD	15:U:99:GLU:H	1.95	0.74
16:V:91:PRO:O	16:V:92:ARG:HD3	1.87	0.74
2:b:5002:TRP:CZ2	29:d:6061:MGE:H3A1	2.22	0.74
2:b:5055:GLN:HB3	2:b:5328:ASN:ND2	2.02	0.74
2:b:5461:PHE:HD1	2:b:5462:GLY:H	1.32	0.74
2:b:5465:TRP:CD1	2:b:5466:HIS:HD1	2.04	0.74
23:b:6019:CLA:OBD	29:b:6060:MGE:H2G	1.87	0.74
23:b:6023:CLA:H143	23:b:6024:CLA:H8	1.68	0.74
3:c:5071:GLU:OE2	3:c:5088:LEU:HB2	1.86	0.74
3:c:5121:SER:O	3:c:5124:VAL:CG2	2.30	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5406:SER:O	3:c:5407:VAL:HG22	1.86	0.74
4:d:5303:ILE:HD12	4:d:5304:ARG:N	2.02	0.74
26:d:6050:BCR:H373	29:d:6059:MGE:H4A2	0.81	0.74
10:k:5034:ALA:HB1	26:k:6051:BCR:C18	2.16	0.74
1:A:142:TRP:N	4:D:220:ASN:HD21	1.85	0.74
23:B:1009:CLA:H11	26:H:1049:BCR:H351	1.69	0.74
23:B:1020:CLA:OBD	23:B:1020:CLA:CED	2.35	0.74
3:C:282:MET:HA	3:C:285:ILE:CG2	2.17	0.74
4:D:281:MET:CE	4:D:284:ILE:HD12	2.16	0.74
2:b:5129:ALA:HB1	7:h:5018:TYR:CD2	2.23	0.74
3:c:5097:TRP:HE1	3:c:5178:LYS:HE2	1.51	0.74
1:A:160:ILE:HG21	1:A:291:SER:HA	1.68	0.74
23:B:1010:CLA:HMD2	23:B:1011:CLA:H51	1.69	0.74
23:B:1023:CLA:HHC	23:B:1023:CLA:HBB1	1.68	0.74
4:D:18:LEU:HA	17:X:41:SER:OG	1.87	0.74
10:K:33:PHE:CD1	10:K:33:PHE:O	2.30	0.74
16:V:121:LEU:HD23	16:V:138:LEU:HD11	1.70	0.74
16:V:138:LEU:HA	16:V:141:ILE:HD12	1.69	0.74
1:a:5228:THR:HA	2:b:5477:SER:HB3	1.69	0.74
23:c:6027:CLA:HBC3	23:c:6027:CLA:HMC3	1.69	0.74
30:c:6055:DGD:HB72	30:c:6055:DGD:C2B	2.18	0.74
26:h:6049:BCR:H23C	26:h:6049:BCR:C40	2.02	0.74
26:k:6052:BCR:H331	26:k:6052:BCR:C8	2.15	0.74
11:l:5018:TYR:HE2	14:t:5019:PHE:HB3	1.52	0.74
1:A:142:TRP:N	4:D:220:ASN:ND2	2.36	0.74
1:A:328:MET:HB3	4:D:325:ILE:CG1	2.17	0.74
23:C:1030:CLA:H43	26:C:1054:BCR:H323	1.67	0.74
24:a:6039:PHO:HMC1	24:a:6039:PHO:HBC3	1.68	0.74
23:b:6011:CLA:H122	23:b:6011:CLA:C9	2.17	0.74
23:b:6019:CLA:HMB1	23:b:6020:CLA:NC	2.03	0.74
3:c:5203:THR:CG2	3:c:5232:ASP:HA	2.17	0.74
23:c:6032:CLA:C4	23:c:6032:CLA:CGA	2.65	0.74
17:x:5011:THR:O	17:x:5012:ILE:HG22	1.88	0.74
1:A:29:TYR:CE2	1:A:132:GLU:HB3	2.19	0.74
1:A:202:VAL:HG21	23:A:1006:CLA:OBD	1.87	0.74
2:B:226:TYR:CD2	2:B:231:MET:HG3	2.23	0.74
2:B:231:MET:HA	2:B:236:THR:HG21	1.68	0.74
2:B:257:TRP:CH2	4:D:291:LEU:HB3	2.23	0.74
23:B:1012:CLA:C10	23:B:1023:CLA:H42	2.15	0.74
23:C:1034:CLA:HBC3	23:C:1034:CLA:CHD	2.13	0.74
23:D:1008:CLA:HMB1	23:D:1008:CLA:HBB1	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:K:1051:BCR:H321	26:K:1052:BCR:C12	2.17	0.74
1:a:5069:GLY:CA	4:d:5313:THR:HG22	2.18	0.74
1:a:5104:GLU:OE2	13:o:5099:ARG:NH1	2.20	0.74
1:a:5142:TRP:H	4:d:5220:ASN:ND2	1.84	0.74
23:b:6011:CLA:H3A	23:b:6011:CLA:CGA	2.18	0.74
23:c:6031:CLA:CGD	23:c:6031:CLA:CAA	2.65	0.74
4:d:5089:LEU:CD2	7:h:5052:THR:HG21	2.17	0.74
4:d:5209:LEU:HD22	25:d:6042:PQ9:H192	1.70	0.74
4:d:5320:LEU:O	4:d:5321:LEU:C	2.28	0.74
5:e:5034:GLY:HA2	6:f:5032:PHE:CE2	2.23	0.74
20:z:5016:SER:O	20:z:5020:VAL:HG23	1.87	0.74
20:z:5036:SER:O	20:z:5040:ILE:HG12	1.88	0.74
2:B:106:LEU:HD11	26:B:1048:BCR:C13	2.17	0.74
2:B:185:TRP:CD1	2:B:185:TRP:H	2.04	0.74
23:B:1012:CLA:C10	23:B:1023:CLA:O2A	2.35	0.74
23:C:1034:CLA:C8	23:C:1034:CLA:C4	2.50	0.74
4:D:146:PHE:O	4:D:149:PRO:HG2	1.87	0.74
15:U:58:ASN:CG	15:U:114:VAL:HG13	2.12	0.74
1:a:5014:TRP:NE1	1:a:5018:CYS:SG	2.61	0.74
1:a:5060:ILE:N	1:a:5060:ILE:CD1	2.51	0.74
23:b:6009:CLA:HBA2	23:b:6009:CLA:CBD	2.18	0.74
3:c:5346:THR:HB	3:c:5348:GLU:HG3	1.70	0.74
23:c:6033:CLA:HBC3	23:c:6033:CLA:CHD	2.12	0.74
4:d:5104:TRP:CZ3	4:d:5110:LEU:HD23	2.22	0.74
4:d:5312:GLU:HG3	13:o:5185:PRO:HB3	1.69	0.74
13:o:5162:ILE:HD12	13:o:5162:ILE:N	2.02	0.74
13:o:5230:VAL:HG22	13:o:5237:ILE:HA	1.68	0.74
14:t:5029:ILE:H	14:t:5029:ILE:HD13	1.52	0.74
16:v:5067:HIS:CA	16:v:5071:ILE:O	2.34	0.74
20:z:5043:GLY:O	20:z:5047:TRP:HB2	1.87	0.74
1:A:141:PRO:HG3	3:C:447:ARG:HA	1.69	0.74
1:A:219:VAL:CB	4:D:268:HIS:ND1	2.50	0.74
23:A:1006:CLA:H101	25:A:1043:PQ9:H441	1.70	0.74
2:B:31:ALA:HB3	2:B:103:LEU:HD12	1.69	0.74
23:B:1019:CLA:HMB1	23:B:1020:CLA:NC	2.03	0.74
23:B:1022:CLA:C4A	23:B:1022:CLA:HBA2	2.15	0.74
3:C:42:LEU:HG	3:C:46:SER:HB2	1.70	0.74
23:C:1025:CLA:HAA1	23:C:1025:CLA:O1D	1.86	0.74
13:O:215:ARG:H	13:O:215:ARG:CD	2.01	0.74
16:V:105:PRO:HG3	16:V:115:ALA:HA	1.69	0.74
16:V:123:SER:O	16:V:125:ASP:N	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5153:SER:OG	1:a:5287:ALA:HB2	1.88	0.74
2:b:5269:ARG:HD2	2:b:5270:TYR:CE1	2.23	0.74
2:b:5381:ARG:HA	13:o:5192:SER:OG	1.88	0.74
23:b:6021:CLA:C20	23:b:6021:CLA:C14	2.64	0.74
23:b:6024:CLA:CMC	23:b:6024:CLA:CBC	2.66	0.74
3:c:5099:VAL:HG21	3:c:5196:VAL:HG11	1.70	0.74
23:c:6037:CLA:HAA1	23:c:6037:CLA:CGD	2.18	0.74
4:d:5196:PHE:HA	4:d:5199:MET:HE3	1.68	0.74
12:m:5008:PHE:CD1	12:m:5008:PHE:O	2.32	0.74
23:B:1022:CLA:H141	23:B:1022:CLA:H172	0.80	0.73
18:Y:32:GLY:HA2	18:Y:35:ILE:CG2	2.18	0.73
20:Z:50:LEU:O	20:Z:54:VAL:HG23	1.88	0.73
1:a:5048:PHE:CD1	1:a:5049:VAL:N	2.56	0.73
2:b:5394:VAL:HG22	2:b:5414:VAL:HG11	1.70	0.73
23:b:6011:CLA:HBB1	23:b:6011:CLA:CHC	2.16	0.73
23:c:6037:CLA:O2D	23:c:6037:CLA:CAA	2.30	0.73
13:o:5043:ASN:OD1	13:o:5103:SER:HB2	1.87	0.73
13:o:5215:ARG:H	13:o:5215:ARG:HD2	1.51	0.73
2:B:5:TRP:HE3	23:B:1019:CLA:H42	1.52	0.73
2:B:92:SER:O	2:B:94:GLU:N	2.21	0.73
29:B:1060:MGE:CAA	29:L:1061:MGE:H8A2	2.18	0.73
3:C:55:ALA:HB1	26:K:1052:BCR:H371	1.70	0.73
4:D:80:THR:HG22	4:D:111:TRP:NE1	2.03	0.73
7:H:44:ILE:O	7:H:48:ILE:HG13	1.88	0.73
1:a:5220:THR:HG23	4:d:5265:ARG:NH2	2.04	0.73
27:a:6063:LHG:H322	23:c:6034:CLA:H93	1.69	0.73
2:b:5004:ARG:CA	23:b:6019:CLA:HBA1	2.18	0.73
23:b:6011:CLA:H191	23:b:6017:CLA:C15	2.17	0.73
23:b:6016:CLA:CBC	23:b:6016:CLA:CHD	2.62	0.73
4:d:5186:GLN:OE1	4:d:5192:THR:HG22	1.87	0.73
29:d:6061:MGE:H7B1	29:d:6061:MGE:H3B1	1.69	0.73
14:t:5019:PHE:O	14:t:5023:PHE:HB2	1.87	0.73
1:A:118:HIS:O	1:A:121:LEU:HD23	1.88	0.73
2:B:38:ALA:O	2:B:42:LEU:CB	2.33	0.73
23:B:1012:CLA:C11	23:B:1023:CLA:O2A	2.36	0.73
4:D:98:GLN:HE21	5:E:73:LYS:CE	2.00	0.73
4:D:149:PRO:O	4:D:152:VAL:HG12	1.88	0.73
5:E:23:HIS:O	5:E:27:ILE:HG12	1.89	0.73
11:L:9:PRO:CB	12:m:5034:LYS:HG3	2.17	0.73
18:Y:39:LEU:CD2	20:Z:25:VAL:HG22	2.17	0.73
23:b:6020:CLA:OBD	23:b:6020:CLA:CED	2.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5169:GLY:HA2	3:c:5244:CYS:SG	2.28	0.73
20:z:5050:LEU:O	20:z:5054:VAL:HG23	1.88	0.73
1:A:219:VAL:HG23	1:A:220:THR:H	1.54	0.73
1:A:219:VAL:HG23	1:A:220:THR:N	2.02	0.73
2:B:251:VAL:HG13	30:H:1058:DGD:HB51	1.69	0.73
23:C:1031:CLA:O2D	23:C:1033:CLA:C8	2.36	0.73
13:O:186:LYS:HZ3	13:O:186:LYS:HA	1.54	0.73
23:a:6006:CLA:CMB	24:a:6039:PHO:C16	2.58	0.73
2:b:5270:TYR:HA	2:b:5273:ASP:OD2	1.89	0.73
4:d:5067:TYR:CD1	4:d:5076:VAL:HG21	2.24	0.73
13:o:5105:ASP:O	13:o:5106:GLN:HB2	1.87	0.73
27:A:1063:LHG:H322	23:C:1034:CLA:H93	1.70	0.73
23:B:1011:CLA:C20	7:H:38:PHE:HE2	2.01	0.73
16:V:29:LEU:HD23	16:V:29:LEU:H	1.53	0.73
1:a:5298:ASN:O	3:c:5404:LEU:N	2.21	0.73
23:c:6029:CLA:HBD	23:c:6029:CLA:HAA1	1.71	0.73
13:o:5120:THR:O	13:o:5120:THR:HG22	1.87	0.73
18:y:5010:ILE:HG12	18:y:5011:GLY:N	2.04	0.73
26:A:1044:BCR:HC8	26:A:1044:BCR:H331	1.70	0.73
23:B:1019:CLA:OBD	29:B:1060:MGE:H2G	1.88	0.73
23:B:1021:CLA:C20	23:B:1021:CLA:C14	2.64	0.73
23:B:1023:CLA:H143	23:B:1024:CLA:H8	1.68	0.73
23:C:1032:CLA:C4	23:C:1032:CLA:CGA	2.65	0.73
5:E:38:VAL:CG1	6:F:39:ALA:CB	2.67	0.73
17:X:43:ILE:O	17:X:44:ASP:HB3	1.87	0.73
1:a:5322:ASN:ND2	3:c:5412:THR:HG22	2.02	0.73
2:b:5460:PHE:HE1	23:b:6016:CLA:HBB1	1.52	0.73
3:c:5288:CYS:SG	30:c:6055:DGD:C2B	2.76	0.73
4:d:5103:ARG:HG2	5:e:5073:LYS:CG	2.19	0.73
4:d:5281:MET:HE3	4:d:5284:ILE:HD12	1.70	0.73
23:d:6008:CLA:HBB1	23:d:6008:CLA:HMB1	1.68	0.73
8:i:5006:ILE:H	8:i:5006:ILE:CD1	2.01	0.73
8:i:5030:ARG:HA	8:i:5030:ARG:CZ	2.18	0.73
16:v:5075:ASN:OD1	16:v:5077:SER:HB2	1.88	0.73
29:B:1060:MGE:H3G1	29:B:1060:MGE:O2D	1.86	0.73
3:C:185:LEU:HB2	3:C:230:LEU:HD21	1.69	0.73
23:C:1029:CLA:H42	26:C:1054:BCR:H333	1.69	0.73
23:C:1037:CLA:HAA1	23:C:1037:CLA:CGD	2.18	0.73
26:T:6046:BCR:H393	26:b:6045:BCR:H343	1.70	0.73
16:V:30:THR:OG1	16:V:32:GLU:HG2	1.88	0.73
16:V:154:ASP:C	16:V:156:TRP:H	1.93	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6012:CLA:C11	23:b:6023:CLA:O2A	2.36	0.73
23:b:6019:CLA:C19	23:b:6021:CLA:C5	2.67	0.73
3:c:5041:ARG:CG	23:c:6035:CLA:HED2	2.19	0.73
13:o:5055:ALA:HB2	13:o:5163:THR:HA	1.71	0.73
1:A:249:VAL:HG23	4:D:238:THR:HB	1.71	0.73
23:A:1006:CLA:H2	23:A:1006:CLA:C7	2.18	0.73
3:C:236:GLY:HA3	26:C:1054:BCR:C39	2.18	0.73
4:D:267:LEU:HD23	4:D:267:LEU:C	2.12	0.73
4:D:267:LEU:O	4:D:271:MET:HG3	1.89	0.73
1:a:5071:LEU:HA	1:a:5075:ASN:HA	1.71	0.73
1:a:5303:ASN:HD21	3:c:5412:THR:HA	1.52	0.73
3:c:5163:PHE:CG	23:c:6036:CLA:HBB1	2.23	0.73
23:c:6031:CLA:O2D	23:c:6033:CLA:C8	2.36	0.73
11:l:5036:PHE:CE2	14:t:5002:GLU:HA	2.22	0.73
20:z:5035:ARG:HH12	20:z:5039:LEU:HD22	1.53	0.73
23:B:1014:CLA:HHD	23:B:1014:CLA:CBC	2.12	0.73
23:B:1019:CLA:C19	23:B:1021:CLA:C5	2.67	0.73
4:D:325:ILE:O	4:D:325:ILE:HG22	1.86	0.73
1:a:5306:VAL:HG12	1:a:5314:ILE:HB	1.70	0.73
27:a:6063:LHG:H322	23:c:6034:CLA:C9	2.18	0.73
23:b:6021:CLA:H203	23:b:6021:CLA:H141	1.68	0.73
29:b:6060:MGE:H261	29:b:6060:MGE:H3A2	1.70	0.73
23:c:6025:CLA:C2B	23:c:6025:CLA:H41	2.17	0.73
4:d:5281:MET:CE	4:d:5284:ILE:HD12	2.19	0.73
5:e:5032:ILE:HD12	5:e:5033:ALA:N	2.03	0.73
15:u:5091:VAL:HG12	15:u:5105:LEU:HD13	1.70	0.73
1:A:74:GLY:O	1:A:76:ASN:N	2.21	0.73
2:B:26:HIS:O	2:B:30:VAL:HG23	1.89	0.73
2:B:460:LEU:HG	30:H:1058:DGD:HAG3	1.70	0.73
23:B:1023:CLA:C1D	23:B:1024:CLA:CBC	2.67	0.73
4:D:74:LEU:HA	4:D:175:VAL:HG21	1.71	0.73
1:A:174:LEU:N	1:A:174:LEU:HD23	2.04	0.72
2:B:258:TYR:O	2:B:259:GLY:C	2.31	0.72
2:B:456:ALA:HA	30:H:1058:DGD:HBG1	1.68	0.72
23:B:1009:CLA:CGD	23:B:1009:CLA:HAA1	2.15	0.72
26:D:1050:BCR:C22	29:J:1059:MGE:H3A1	2.19	0.72
12:M:5:GLN:HE21	12:m:5005:GLN:HG2	1.53	0.72
13:O:73:PRO:HG3	13:O:102:THR:OG1	1.89	0.72
20:Z:35:ARG:HD3	20:Z:36:SER:N	2.04	0.72
20:Z:36:SER:O	20:Z:40:ILE:HG12	1.89	0.72
1:a:5247:ASN:ND2	1:a:5250:ALA:HB2	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:a:6007:CLA:H72	8:i:5013:THR:HB	1.70	0.72
2:b:5281:ILE:HB	2:b:5302:ILE:HD13	1.71	0.72
4:d:5258:GLY:C	4:d:5259:ILE:HD13	2.13	0.72
10:k:5028:ILE:O	10:k:5031:LEU:HB2	1.89	0.72
1:A:322:ASN:O	1:A:326:LEU:HG	1.89	0.72
2:B:106:LEU:C	2:B:106:LEU:HD13	2.14	0.72
23:B:1009:CLA:HHC	23:B:1009:CLA:CBB	2.06	0.72
30:C:1056:DGD:HBT2	30:C:1056:DGD:HBF2	1.71	0.72
1:a:5206:PHE:CD1	24:a:6039:PHO:HBB2	2.24	0.72
3:c:5058:GLY:HA3	3:c:5125:LEU:CB	2.18	0.72
3:c:5284:PHE:HB3	30:c:6055:DGD:HB81	1.69	0.72
11:l:5023:LEU:O	11:l:5027:LEU:HB2	1.89	0.72
14:t:5001:MET:N	14:t:5004:ILE:CD1	2.51	0.72
15:u:5127:ARG:HG2	15:u:5127:ARG:NH1	2.01	0.72
2:B:464:PHE:CE2	29:B:1060:MGE:C5B	2.72	0.72
23:B:1011:CLA:H121	26:H:1049:BCR:C32	2.15	0.72
23:B:1021:CLA:C17	29:B:1060:MGE:CDA	2.56	0.72
6:F:41:GLN:NE2	9:J:27:LEU:C	2.47	0.72
13:O:94:THR:HB	13:O:134:VAL:HB	1.71	0.72
13:O:179:THR:HG22	13:O:180:ALA:N	2.05	0.72
14:T:2:GLU:HB2	14:T:6:TYR:CE2	2.24	0.72
23:b:6017:CLA:HBB1	26:h:6049:BCR:H321	1.71	0.72
23:c:6029:CLA:HBC3	23:c:6029:CLA:HHD	1.71	0.72
2:B:241:SER:HB3	23:B:1020:CLA:CED	2.19	0.72
3:C:88:LEU:HD21	23:C:1027:CLA:HBC2	1.69	0.72
3:C:307:PRO:HG3	3:C:358:PHE:CD1	2.24	0.72
11:L:36:PHE:CE2	14:T:2:GLU:HA	2.24	0.72
29:L:1061:MGE:H7B1	29:L:1061:MGE:H3B1	1.69	0.72
13:O:142:ILE:HD12	13:O:142:ILE:N	2.04	0.72
23:b:6009:CLA:HAA1	23:b:6009:CLA:CED	2.18	0.72
23:b:6020:CLA:H121	23:b:6020:CLA:C9	2.10	0.72
29:b:6060:MGE:CAA	29:d:6061:MGE:H8A2	2.20	0.72
30:c:6056:DGD:HBT2	30:c:6056:DGD:HBF2	1.71	0.72
11:l:5030:LEU:HD22	11:l:5031:PHE:HD1	1.53	0.72
23:B:1014:CLA:C9	23:B:1014:CLA:C12	2.30	0.72
3:C:218:PHE:HA	30:C:1055:DGD:HG11	1.72	0.72
10:K:32:PHE:CD1	26:K:1052:BCR:H393	2.22	0.72
26:T:6046:BCR:C35	26:b:6047:BCR:C38	2.60	0.72
1:a:5220:THR:HA	4:d:5265:ARG:HH12	1.55	0.72
1:a:5228:THR:HA	2:b:5477:SER:CB	2.19	0.72
1:a:5300:PHE:CD2	3:c:5404:LEU:HD12	2.17	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:c:6031:CLA:HED3	23:c:6031:CLA:C2A	2.19	0.72
23:d:6005:CLA:H203	23:d:6005:CLA:H152	1.71	0.72
13:o:5122:VAL:HG12	13:o:5123:GLU:N	2.00	0.72
20:z:5001:MET:HE2	20:z:5057:LEU:HG	1.72	0.72
1:A:279:ARG:HD3	4:D:208:ALA:CA	2.19	0.72
2:B:241:SER:HB3	23:B:1020:CLA:HED3	1.72	0.72
23:B:1016:CLA:C2	23:H:1017:CLA:H102	2.19	0.72
5:E:28:PRO:O	5:E:32:ILE:HG13	1.89	0.72
31:E:1040:HEM:O1D	31:E:1040:HEM:HHA	1.89	0.72
13:O:119:LEU:N	13:O:155:THR:HG22	1.98	0.72
23:a:6006:CLA:H171	26:d:6050:BCR:H291	0.75	0.72
2:b:5159:PHE:C	23:b:6014:CLA:HMD3	2.15	0.72
23:b:6017:CLA:CBC	23:b:6017:CLA:CHD	2.68	0.72
23:b:6023:CLA:C1D	23:b:6024:CLA:CBC	2.67	0.72
3:c:5042:LEU:HB3	3:c:5151:TRP:HH2	1.54	0.72
4:d:5020:ASP:HA	4:d:5023:LYS:HE3	1.71	0.72
23:d:6005:CLA:H2A	23:d:6005:CLA:O2D	1.89	0.72
15:u:5099:GLU:H	15:u:5099:GLU:CD	1.97	0.72
1:A:279:ARG:O	1:A:283:VAL:CG1	2.37	0.72
23:B:1011:CLA:CGA	23:B:1011:CLA:H3A	2.18	0.72
23:C:1030:CLA:H43	26:C:1054:BCR:C32	2.19	0.72
23:C:1031:CLA:HED3	23:C:1031:CLA:C2A	2.19	0.72
4:D:291:LEU:C	4:D:293:LEU:H	1.95	0.72
12:M:8:PHE:O	12:M:9:ILE:C	2.32	0.72
2:b:5022:MET:SD	26:b:6045:BCR:H391	2.29	0.72
3:c:5063:TRP:CZ3	23:c:6027:CLA:CBC	2.57	0.72
23:c:6031:CLA:HMA1	23:c:6031:CLA:C2	2.10	0.72
4:d:5209:LEU:O	4:d:5213:ILE:HG22	1.90	0.72
1:A:215:HIS:O	1:A:219:VAL:CG2	2.37	0.72
1:A:309:ALA:O	16:V:29:LEU:HD22	1.90	0.72
3:C:282:MET:HG2	23:C:1025:CLA:H71	1.72	0.72
23:C:1034:CLA:CBC	23:C:1034:CLA:CHD	2.67	0.72
4:D:232:PHE:O	4:D:232:PHE:CD2	2.43	0.72
13:O:188:ARG:CD	13:O:197:ALA:H	2.01	0.72
2:b:5203:GLY:O	2:b:5207:ILE:HG12	1.90	0.72
2:b:5461:PHE:O	2:b:5464:ILE:HB	1.89	0.72
23:b:6016:CLA:C20	23:d:6008:CLA:CMA	2.68	0.72
4:d:5291:LEU:HD13	30:h:6058:DGD:HBN2	1.69	0.72
8:i:5014:PHE:CE1	8:i:5018:LEU:HD11	2.25	0.72
26:k:6051:BCR:C32	26:k:6052:BCR:C12	2.68	0.72
26:z:6053:BCR:C38	26:z:6053:BCR:C23	2.41	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:LEU:H	1:A:13:LEU:HD22	1.54	0.72
27:A:1063:LHG:C31	23:C:1034:CLA:C9	2.63	0.72
23:B:1009:CLA:HBA2	23:B:1009:CLA:CBD	2.18	0.72
4:D:57:SER:OG	4:D:79:SER:HB2	1.88	0.72
5:E:10:PHE:O	5:E:12:ASP:N	2.22	0.72
5:E:83:LEU:HD22	5:E:84:LYS:H	1.55	0.72
12:M:20:VAL:O	12:M:24:ILE:HG13	1.90	0.72
26:T:6046:BCR:H312	26:T:6046:BCR:HC42	1.71	0.72
15:U:72:TYR:HB3	15:U:73:PRO:CD	2.19	0.72
16:V:109:ASP:O	16:V:109:ASP:OD2	2.08	0.72
1:a:5280:VAL:HA	1:a:5283:VAL:HG13	1.71	0.72
2:b:5150:PHE:CD2	2:b:5155:LEU:HD11	2.24	0.72
23:b:6012:CLA:C10	23:b:6023:CLA:O2A	2.37	0.72
3:c:5128:GLY:HA3	23:c:6037:CLA:HAC1	1.72	0.72
3:c:5347:GLY:CA	13:o:5043:ASN:HB2	2.12	0.72
23:c:6030:CLA:H43	26:c:6054:BCR:C32	2.19	0.72
7:h:5014:LEU:H	7:h:5014:LEU:HD12	1.55	0.72
10:k:5012:PRO:HB2	10:k:5015:TYR:CD2	2.25	0.72
13:o:5208:LEU:H	13:o:5208:LEU:HD12	1.55	0.72
18:y:5006:MET:HE2	18:y:5006:MET:HA	1.70	0.72
1:A:33:PHE:HB2	1:A:129:ARG:HB2	1.72	0.72
23:B:1009:CLA:HAA1	23:B:1009:CLA:CED	2.18	0.72
3:C:42:LEU:HD22	3:C:151:TRP:CH2	2.25	0.72
23:C:1031:CLA:H141	23:C:1031:CLA:H172	1.68	0.72
23:H:1017:CLA:HBB1	26:H:1049:BCR:H321	1.71	0.72
1:a:5090:GLY:C	1:a:5092:HIS:H	1.94	0.72
1:a:5272:HIS:HA	1:a:5275:LEU:CG	2.20	0.72
1:a:5300:PHE:HB3	1:a:5302:PHE:CE1	2.23	0.72
2:b:5130:LEU:HA	7:h:5015:ASN:HD21	1.54	0.72
3:c:5379:LYS:HA	3:c:5383:ASP:HB2	1.72	0.72
3:c:5453:ALA:HB1	3:c:5455:PHE:CZ	2.25	0.72
30:c:6056:DGD:CAB	30:c:6056:DGD:C6B	2.63	0.72
1:A:219:VAL:HG21	4:D:268:HIS:CB	2.19	0.71
1:A:261:GLN:C	1:A:263:ALA:H	1.96	0.71
23:A:1003:CLA:C17	24:A:1038:PHO:H43	2.17	0.71
2:B:362:PHE:CE1	4:D:184:PHE:HZ	2.08	0.71
2:B:440:ASP:OD2	2:B:441:GLY:N	2.23	0.71
3:C:128:GLY:HA3	23:C:1037:CLA:CAC	2.20	0.71
4:D:89:LEU:HD22	7:H:50:ASN:OD1	1.89	0.71
6:F:26:LEU:HD13	6:F:26:LEU:H	1.55	0.71
7:H:54:ILE:O	17:X:13:THR:HG21	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Y:39:LEU:HD21	20:Z:25:VAL:CG2	2.18	0.71
2:b:5007:THR:O	2:b:5010:ILE:HG13	1.90	0.71
2:b:5294:THR:HG22	2:b:5297:GLU:HG3	1.72	0.71
23:d:6005:CLA:H72	29:d:6062:MGE:H202	1.72	0.71
1:A:210:LEU:HD12	1:A:210:LEU:O	1.90	0.71
1:A:237:TYR:CE2	1:A:239:PHE:HA	2.25	0.71
23:B:1014:CLA:HMA1	23:B:1014:CLA:HBA1	0.77	0.71
3:C:72:LEU:HD11	10:K:12:PRO:HD3	1.72	0.71
3:C:424:SER:O	3:C:428:THR:HG22	1.89	0.71
23:C:1027:CLA:HED1	23:C:1036:CLA:C19	2.20	0.71
23:C:1029:CLA:HAA1	23:C:1029:CLA:HBD	1.71	0.71
4:D:65:SER:HB3	4:D:77:ALA:O	1.90	0.71
4:D:197:HIS:O	4:D:201:VAL:HG23	1.89	0.71
7:H:40:VAL:O	7:H:44:ILE:HG23	1.90	0.71
8:I:8:VAL:O	8:I:12:VAL:HG23	1.90	0.71
2:b:5002:TRP:HA	2:b:5005:VAL:HB	1.71	0.71
23:b:6009:CLA:O2A	26:h:6049:BCR:C17	2.38	0.71
23:b:6011:CLA:H192	23:b:6017:CLA:C13	2.20	0.71
4:d:5340:VAL:O	4:d:5342:PRO:HD3	1.88	0.71
7:h:5053:LEU:HG	7:h:5055:LEU:HD11	1.72	0.71
1:A:43:ALA:HA	26:A:1044:BCR:C16	2.20	0.71
1:A:116:ILE:HG23	1:A:117:PHE:CD2	2.25	0.71
2:B:280:PHE:CZ	2:B:312:TYR:HB3	2.25	0.71
23:C:1029:CLA:HBC3	23:C:1029:CLA:HHD	1.71	0.71
4:D:80:THR:HG23	4:D:172:SER:OG	1.90	0.71
4:D:90:LEU:HA	4:D:96:GLU:HG3	1.70	0.71
4:D:302:GLU:OE1	13:O:186:LYS:HD2	1.91	0.71
23:b:6016:CLA:C2	23:b:6017:CLA:H102	2.19	0.71
3:c:5420:VAL:HB	3:c:5425:TRP:HE1	1.54	0.71
30:c:6056:DGD:O1A	30:c:6056:DGD:C5A	2.39	0.71
4:d:5285:GLY:O	4:d:5289:LEU:HD23	1.90	0.71
1:A:129:ARG:NH2	4:D:256:ILE:HG13	2.05	0.71
1:A:279:ARG:O	1:A:283:VAL:HG12	1.90	0.71
2:B:230:ARG:NH1	2:B:230:ARG:HA	2.04	0.71
23:B:1012:CLA:HED2	23:B:1012:CLA:H2A	1.70	0.71
23:B:1024:CLA:CMC	23:B:1024:CLA:CBC	2.66	0.71
3:C:318:LEU:CD2	3:C:328:VAL:HG11	2.20	0.71
3:C:377:LEU:HA	3:C:380:ILE:CG2	2.20	0.71
23:C:1025:CLA:CGD	23:C:1025:CLA:CAA	2.65	0.71
4:D:274:VAL:HG22	25:D:1042:PQ9:H262	1.72	0.71
16:V:143:GLY:O	16:V:147:VAL:HG23	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5188:ALA:HB2	1:a:5328:MET:CE	2.19	0.71
4:d:5039:PRO:O	4:d:5043:LEU:HD22	1.90	0.71
4:d:5071:CYS:HB3	4:d:5076:VAL:HG22	1.71	0.71
26:d:6050:BCR:C22	29:d:6059:MGE:H3A1	2.19	0.71
10:k:5021:LEU:HD13	18:y:5006:MET:SD	2.31	0.71
10:k:5034:ALA:O	10:k:5038:VAL:HG23	1.91	0.71
2:B:241:SER:O	2:B:245:VAL:HG23	1.89	0.71
11:L:24:ILE:CD1	12:M:18:PRO:HG2	2.21	0.71
13:O:108:GLN:O	13:O:123:GLU:HA	1.90	0.71
16:V:154:ASP:C	16:V:156:TRP:N	2.47	0.71
1:a:5237:TYR:HE2	1:a:5239:PHE:HA	1.56	0.71
2:b:5475:VAL:HG12	4:d:5139:ARG:HD2	1.71	0.71
1:A:14:TRP:CD1	1:A:18:CYS:HG	2.08	0.71
1:A:21:VAL:HG23	1:A:22:THR:HG23	1.72	0.71
1:A:269:ARG:HE	4:D:243:THR:CG2	2.03	0.71
27:A:1063:LHG:H291	23:C:1032:CLA:C8	2.21	0.71
2:B:254:GLY:O	2:B:258:TYR:CD1	2.33	0.71
2:B:311:PHE:HA	2:B:430:PHE:CZ	2.26	0.71
3:C:464:GLU:OE2	3:C:467:LEU:HD12	1.90	0.71
23:C:1025:CLA:C16	23:C:1031:CLA:CMB	2.68	0.71
20:Z:15:LEU:HD22	20:Z:50:LEU:CD1	2.19	0.71
1:a:5075:ASN:ND2	14:t:5002:GLU:CG	2.53	0.71
1:a:5327:GLY:O	1:a:5330:VAL:HG22	1.90	0.71
23:b:6012:CLA:HED2	23:b:6012:CLA:HAA2	0.74	0.71
23:b:6022:CLA:OBD	23:b:6022:CLA:CED	2.30	0.71
11:l:5018:TYR:CE2	14:t:5019:PHE:HB3	2.26	0.71
3:C:45:LEU:HD21	3:C:141:GLU:HG2	1.70	0.71
4:D:134:ARG:HE	4:D:134:ARG:CA	2.04	0.71
23:D:1005:CLA:H203	23:D:1005:CLA:H152	1.71	0.71
5:E:17:VAL:HG13	9:J:7:ARG:N	2.06	0.71
6:F:41:GLN:HE21	9:J:27:LEU:HB3	1.54	0.71
13:O:105:ASP:O	13:O:106:GLN:HB2	1.91	0.71
13:O:105:ASP:O	13:O:127:ILE:CD1	2.38	0.71
1:a:5063:ILE:HG13	1:a:5065:GLU:HG2	1.72	0.71
1:a:5215:HIS:CE1	4:d:5268:HIS:HD2	2.08	0.71
2:b:5102:GLY:HA3	26:b:6047:BCR:H282	1.71	0.71
2:b:5149:GLY:CA	2:b:5152:ALA:HB3	2.17	0.71
2:b:5395:THR:HA	2:b:5414:VAL:HG21	1.73	0.71
3:c:5464:GLU:OE2	3:c:5467:LEU:HD12	1.89	0.71
4:d:5101:PHE:O	4:d:5105:CYS:HB2	1.89	0.71
4:d:5281:MET:HE3	4:d:5281:MET:HA	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:e:6040:HEM:HHA	31:e:6040:HEM:O1D	1.89	0.71
12:m:5033:GLN:HA	12:m:5033:GLN:NE2	2.06	0.71
1:A:72:LEU:O	1:A:73:TYR:CE2	2.43	0.71
2:B:173:GLY:HA3	2:B:312:TYR:CE1	2.26	0.71
2:B:380:ASP:OD1	2:B:390:TYR:HB2	1.90	0.71
2:B:465:GLY:HA3	23:B:1019:CLA:CBC	2.20	0.71
2:B:468:TRP:CD1	2:B:469:HIS:HD1	2.09	0.71
23:B:1014:CLA:HMA2	23:B:1014:CLA:CGA	2.21	0.71
23:B:1016:CLA:C20	23:D:1008:CLA:CMA	2.68	0.71
3:C:53:HIS:HB2	23:C:1036:CLA:CMD	2.20	0.71
3:C:140:LEU:HB3	3:C:148:GLY:HA2	1.73	0.71
3:C:450:ALA:O	3:C:454:GLY:N	2.24	0.71
23:C:1026:CLA:H203	23:C:1026:CLA:C4D	2.21	0.71
23:C:1034:CLA:H41	23:C:1034:CLA:H8	1.67	0.71
4:D:93:TRP:CZ2	23:D:1008:CLA:O1A	2.43	0.71
23:D:1005:CLA:CED	23:D:1005:CLA:C2A	2.43	0.71
11:L:12:LEU:HD12	12:M:26:TYR:CA	2.20	0.71
12:M:29:THR:HG22	12:M:30:GLU:OE1	1.90	0.71
15:U:92:LEU:H	15:U:92:LEU:HD12	1.54	0.71
16:V:135:GLU:O	16:V:139:VAL:HG22	1.89	0.71
1:a:5027:ARG:HD2	14:t:5024:ARG:NH2	2.04	0.71
1:a:5135:TYR:CZ	3:c:5449:ARG:HD2	2.26	0.71
23:c:6034:CLA:H92	23:c:6034:CLA:C12	2.20	0.71
1:A:140:ARG:HH22	27:A:1063:LHG:C2	2.03	0.71
1:A:159:LEU:HG	1:A:163:ILE:HD11	1.72	0.71
2:B:391:SER:HB3	2:B:394:GLN:NE2	2.06	0.71
23:B:1009:CLA:O2A	26:H:1049:BCR:C17	2.38	0.71
10:K:28:ILE:CD1	26:K:1051:BCR:HC7	2.11	0.71
1:a:5060:ILE:HD13	1:a:5060:ILE:H	1.55	0.71
1:a:5147:TYR:C	1:a:5150:PRO:HG2	2.16	0.71
1:a:5166:GLY:HA3	3:c:5357:ARG:HH11	1.55	0.71
1:a:5269:ARG:NH2	4:d:5243:THR:CG2	2.53	0.71
3:c:5113:VAL:O	3:c:5117:VAL:HG23	1.90	0.71
4:d:5259:ILE:HD11	14:t:5021:ILE:HG12	1.71	0.71
7:h:5005:THR:CG2	7:h:5008:GLY:HA3	2.21	0.71
7:h:5028:THR:O	7:h:5031:MET:HB3	1.90	0.71
16:v:5081:ARG:HG3	16:v:5081:ARG:NH1	2.06	0.71
1:A:174:LEU:HD23	1:A:174:LEU:H	1.56	0.71
1:A:288:LEU:HD11	3:C:435:PHE:CD2	2.25	0.71
1:A:307:ILE:HD11	1:A:311:GLY:O	1.91	0.71
2:B:157:HIS:ND1	2:B:158:LEU:HD23	2.06	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:391:SER:O	2:B:394:GLN:HG3	1.90	0.71
2:B:441:GLY:O	2:B:442:ILE:HD13	1.91	0.71
23:B:1022:CLA:CMB	23:B:1022:CLA:HBB1	2.21	0.71
3:C:48:LYS:HZ1	3:C:138:GLU:CD	1.99	0.71
3:C:164:HIS:O	3:C:168:LEU:HG	1.90	0.71
4:D:39:PRO:O	4:D:43:LEU:HD22	1.91	0.71
13:O:59:ASP:OD1	13:O:61:SER:HB3	1.91	0.71
16:V:105:PRO:CG	16:V:115:ALA:HA	2.21	0.71
2:b:5028:ALA:CB	2:b:5100:LEU:HD12	2.21	0.71
2:b:5122:ASP:HB3	2:b:5125:THR:CG2	2.21	0.71
3:c:5102:GLY:N	3:c:5194:GLY:O	2.24	0.71
3:c:5322:GLN:HE22	3:c:5381:LYS:HA	1.56	0.71
4:d:5053:THR:HB	4:d:5067:TYR:HD2	1.54	0.71
4:d:5134:ARG:HE	4:d:5134:ARG:CA	2.03	0.71
13:o:5128:ASP:OD1	13:o:5149:LYS:HG2	1.91	0.71
1:A:33:PHE:CD2	1:A:128:GLY:HA3	2.26	0.70
1:A:71:LEU:C	1:A:73:TYR:H	1.97	0.70
1:A:157:VAL:HG22	1:A:182:PHE:CE2	2.26	0.70
1:A:217:SER:OG	4:D:142:ASN:HA	1.90	0.70
23:B:1021:CLA:H142	23:B:1021:CLA:H202	1.72	0.70
4:D:129:GLN:HB2	4:D:143:ALA:HB2	1.72	0.70
23:H:1017:CLA:CBC	23:H:1017:CLA:CHD	2.68	0.70
13:O:123:GLU:OE1	13:O:150:ASN:N	2.23	0.70
16:V:47:LEU:HA	16:V:51:GLN:NE2	2.04	0.70
2:b:5114:TYR:HB3	2:b:5117:LEU:HD21	1.72	0.70
2:b:5337:TRP:O	2:b:5402:GLU:HB2	1.90	0.70
2:b:5360:PHE:HD1	4:d:5326:ARG:HD2	1.55	0.70
2:b:5469:ARG:HG2	2:b:5476:PHE:CZ	2.25	0.70
23:b:6011:CLA:H172	23:b:6016:CLA:CBC	2.21	0.70
23:b:6013:CLA:HMA3	23:b:6014:CLA:HMA2	1.73	0.70
3:c:5222:GLY:H	3:c:5226:SER:HB3	1.55	0.70
3:c:5282:MET:HA	3:c:5285:ILE:HG22	1.70	0.70
3:c:5311:GLN:OE1	3:c:5355:THR:HG22	1.92	0.70
16:v:5035:THR:HG22	16:v:5035:THR:O	1.90	0.70
1:A:147:TYR:O	1:A:150:PRO:HG2	1.90	0.70
2:B:86:ILE:O	2:B:87:ASP:HB3	1.90	0.70
2:B:138:MET:SD	23:B:1023:CLA:HBC2	2.30	0.70
23:B:1011:CLA:HBB1	23:B:1013:CLA:H171	1.70	0.70
3:C:60:ILE:HG13	23:C:1034:CLA:HMD3	1.71	0.70
3:C:202:PRO:HB2	3:C:235:GLY:HA2	1.70	0.70
4:D:210:LEU:CA	4:D:213:ILE:HG22	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:J:1059:MGE:H2A2	29:J:1059:MGE:H5B1	1.72	0.70
13:O:65:ARG:HE	13:O:110:GLU:HA	1.57	0.70
2:b:5253:MET:HE1	2:b:5265:PHE:CD1	2.25	0.70
23:b:6016:CLA:H2	23:b:6017:CLA:H102	1.73	0.70
23:b:6022:CLA:CMB	23:b:6022:CLA:HBB1	2.21	0.70
3:c:5099:VAL:HG11	3:c:5196:VAL:HB	1.72	0.70
3:c:5342:MET:HE3	3:c:5352:GLY:HA3	1.73	0.70
23:c:6029:CLA:H191	23:c:6029:CLA:H41	1.73	0.70
4:d:5206:GLY:HA2	23:d:6005:CLA:H2	1.73	0.70
7:h:5032:ALA:HA	7:h:5035:MET:HE2	1.73	0.70
1:A:64:ARG:O	13:O:178:ARG:NH2	2.23	0.70
1:A:95:PRO:HG2	1:A:98:GLU:HG2	1.74	0.70
1:A:194:MET:HE3	1:A:300:PHE:HB2	1.73	0.70
2:B:256:MET:HE1	2:B:448:ARG:HH12	1.55	0.70
2:B:288:VAL:O	2:B:292:LEU:HB2	1.91	0.70
23:B:1016:CLA:CBC	23:B:1016:CLA:CHD	2.62	0.70
23:B:1016:CLA:H2	23:H:1017:CLA:H102	1.74	0.70
26:B:1047:BCR:H383	26:t:1046:BCR:H352	1.72	0.70
3:C:197:ARG:HG2	3:C:198:VAL:N	2.05	0.70
3:C:199:ILE:H	3:C:199:ILE:HD12	1.54	0.70
6:F:17:THR:O	6:F:20:TRP:HB3	1.91	0.70
13:O:69:LEU:HB3	13:O:107:ILE:HB	1.74	0.70
16:V:48:THR:H	16:V:51:GLN:CG	2.03	0.70
2:b:5096:ALA:O	2:b:5099:VAL:HG12	1.91	0.70
2:b:5153:PHE:HA	2:b:5158:LEU:HB2	1.73	0.70
2:b:5443:SER:HB2	2:b:5444:PRO:HD2	1.73	0.70
3:c:5085:GLY:H	30:c:6056:DGD:HE4	1.54	0.70
3:c:5096:GLY:HA2	3:c:5099:VAL:CG1	2.21	0.70
3:c:5259:TRP:O	3:c:5262:ARG:HG2	1.91	0.70
7:h:5006:TRP:NE1	7:h:5010:ILE:HD11	2.06	0.70
1:A:25:ASP:HA	4:D:251:ARG:HH22	1.54	0.70
23:A:1006:CLA:HED2	23:A:1006:CLA:HAA2	1.73	0.70
2:B:223:GLN:HG2	7:H:24:GLY:CA	2.21	0.70
23:B:1019:CLA:C5	23:B:1021:CLA:HED1	2.21	0.70
3:C:126:GLY:CA	26:K:1052:BCR:H363	2.21	0.70
3:C:162:GLY:HA2	3:C:165:LEU:HD12	1.73	0.70
4:D:258:GLY:O	4:D:259:ILE:HD13	1.91	0.70
1:a:5193:LEU:HD22	4:d:5179:PHE:CG	2.25	0.70
27:a:6063:LHG:H291	23:c:6032:CLA:C8	2.21	0.70
2:b:5138:ILE:O	2:b:5142:LEU:HG	1.91	0.70
2:b:5484:SER:HB3	2:b:5485:PRO:HD3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5272:LEU:O	3:c:5276:LEU:HB2	1.92	0.70
3:c:5297:TYR:HA	3:c:5302:TYR:CE2	2.25	0.70
3:c:5363:GLY:O	3:c:5367:GLU:HG2	1.91	0.70
4:d:5028:VAL:O	4:d:5028:VAL:HG13	1.92	0.70
5:e:5038:VAL:HG21	6:f:5036:ALA:O	1.90	0.70
2:B:193:TYR:O	2:B:195:PRO:HD3	1.92	0.70
2:B:357:ARG:HH11	2:B:357:ARG:HG3	1.56	0.70
2:B:417:VAL:HG12	2:B:418:LYS:N	2.07	0.70
23:B:1009:CLA:HED3	23:B:1009:CLA:C2A	2.20	0.70
23:B:1011:CLA:H172	23:B:1016:CLA:CBC	2.21	0.70
4:D:199:MET:HG2	25:D:1042:PQ9:H351	1.74	0.70
3:c:5159:THR:HG22	3:c:5163:PHE:CE2	2.27	0.70
4:d:5067:TYR:CE1	4:d:5076:VAL:HG21	2.26	0.70
9:j:5021:VAL:HG13	9:j:5022:ILE:N	2.07	0.70
13:o:5065:ARG:HE	13:o:5110:GLU:HA	1.56	0.70
13:o:5113:VAL:HG22	13:o:5119:LEU:HD22	1.73	0.70
15:u:5130:ASN:HD21	15:u:5132:LEU:HD22	1.55	0.70
1:A:99:ALA:CB	1:A:105:TRP:HB2	2.22	0.70
1:A:113:GLN:HA	1:A:116:ILE:HG22	1.73	0.70
1:A:184:ILE:CG2	4:D:321:LEU:HD13	2.21	0.70
2:B:153:PHE:N	23:B:1014:CLA:CMC	2.54	0.70
23:B:1011:CLA:HBB2	23:B:1013:CLA:C19	2.22	0.70
3:C:283:GLY:O	3:C:286:ALA:HB3	1.92	0.70
23:D:1005:CLA:H2A	23:D:1005:CLA:O2D	1.89	0.70
14:T:1:MET:N	14:T:1:MET:CE	2.30	0.70
2:b:5216:VAL:HG12	2:b:5217:ARG:N	2.07	0.70
23:b:6011:CLA:CBB	23:b:6013:CLA:C19	2.70	0.70
23:c:6026:CLA:H203	23:c:6026:CLA:C4D	2.21	0.70
4:d:5303:ILE:HD12	4:d:5304:ARG:H	1.56	0.70
16:v:5090:PRO:HD2	16:v:5092:ARG:NH2	2.06	0.70
2:B:59:GLY:N	2:B:329:PRO:HB3	2.06	0.70
2:B:191:ASN:HD21	2:B:193:TYR:HD2	1.37	0.70
23:B:1012:CLA:HED2	23:B:1012:CLA:HAA2	0.73	0.70
3:C:203:THR:N	3:C:235:GLY:HA3	2.07	0.70
3:C:349:ILE:HD12	3:C:349:ILE:N	2.06	0.70
23:C:1031:CLA:O1D	23:C:1033:CLA:C10	2.39	0.70
4:D:330:ALA:HB3	4:D:331:PRO:HD3	1.73	0.70
23:D:1005:CLA:H72	29:D:1062:MGE:H202	1.72	0.70
7:H:43:LEU:HD23	7:H:43:LEU:O	1.91	0.70
15:U:98:THR:HG23	15:U:101:GLN:OE1	1.91	0.70
1:a:5138:GLY:HA2	3:c:5455:PHE:CD1	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5461:PHE:CB	4:d:5280:TRP:CH2	2.75	0.70
23:c:6027:CLA:HED1	23:c:6036:CLA:C19	2.21	0.70
11:l:5005:PRO:C	11:l:5007:ARG:H	1.99	0.70
1:A:184:ILE:O	1:A:328:MET:HE3	1.90	0.70
2:B:27:THR:CG2	23:B:1013:CLA:HAC2	2.21	0.70
2:B:135:LEU:HD12	2:B:135:LEU:N	2.06	0.70
2:B:191:ASN:HD22	2:B:192:PRO:CD	2.05	0.70
23:B:1019:CLA:H51	23:B:1021:CLA:HED1	1.74	0.70
23:B:1023:CLA:H121	23:B:1023:CLA:C9	2.08	0.70
3:C:35:TRP:C	3:C:38:GLY:H	1.99	0.70
3:C:107:ASP:OD1	3:C:109:PHE:HB3	1.90	0.70
23:C:1025:CLA:H42	23:C:1025:CLA:HMB1	1.73	0.70
4:D:110:LEU:O	4:D:114:ILE:HG13	1.92	0.70
13:O:92:VAL:CG2	13:O:93:PRO:HD2	2.21	0.70
20:Z:37:LYS:O	20:Z:40:ILE:HB	1.92	0.70
1:a:5307:ILE:HG13	1:a:5308:ASP:N	2.07	0.70
3:c:5058:GLY:CA	3:c:5125:LEU:CD1	2.41	0.70
3:c:5156:LYS:O	3:c:5160:ILE:HG13	1.92	0.70
3:c:5414:ILE:HG12	3:c:5415:ASN:H	1.54	0.70
30:c:6055:DGD:O2D	30:c:6055:DGD:HG32	1.92	0.70
10:k:5011:LEU:HD23	10:k:5012:PRO:HD2	1.74	0.70
10:k:5034:ALA:HB1	26:k:6051:BCR:C20	2.18	0.70
13:o:5162:ILE:HD12	13:o:5162:ILE:H	1.56	0.70
16:v:5067:HIS:ND1	16:v:5072:THR:CA	2.50	0.70
23:A:1007:CLA:CBC	23:A:1007:CLA:CHD	2.56	0.70
26:B:1047:BCR:H321	26:B:1047:BCR:H342	1.69	0.70
23:b:6009:CLA:C4	26:h:6049:BCR:C35	2.67	0.70
3:c:5436:PHE:O	3:c:5439:VAL:HG13	1.91	0.70
23:c:6025:CLA:HMB1	23:c:6025:CLA:H42	1.73	0.70
4:d:5043:LEU:HB3	4:d:5113:PHE:CZ	2.26	0.70
29:d:6059:MGE:H2A2	29:d:6059:MGE:H5B1	1.72	0.70
13:o:5136:MET:HE2	13:o:5140:GLU:OE2	1.92	0.70
2:B:7:ARG:HD3	23:B:1019:CLA:HED3	1.74	0.70
2:B:31:ALA:HB2	23:B:1013:CLA:HBC3	1.74	0.70
3:C:97:TRP:HE1	3:C:178:LYS:HE3	1.56	0.70
8:I:13:THR:CG2	8:I:14:PHE:N	2.54	0.70
11:L:14:ARG:HE	14:T:25:GLU:HB3	1.56	0.70
13:O:123:GLU:HG2	13:O:124:GLU:N	2.07	0.70
24:a:6039:PHO:HBC1	4:d:5275:PRO:HB3	1.74	0.70
2:b:5071:SER:HA	2:b:5089:SER:HB2	1.73	0.70
2:b:5238:SER:HB3	23:b:6020:CLA:CED	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6019:CLA:H51	23:b:6021:CLA:HED1	1.74	0.70
23:b:6023:CLA:H122	23:b:6023:CLA:H172	1.73	0.70
3:c:5405:ASN:C	3:c:5405:ASN:OD1	2.35	0.70
4:d:5056:THR:HG21	5:e:5050:PRO:HD3	1.73	0.70
4:d:5180:ARG:HD2	4:d:5180:ARG:C	2.17	0.70
14:t:5004:ILE:CD1	14:t:5004:ILE:N	2.55	0.70
1:A:124:SER:O	1:A:127:MET:HB3	1.92	0.69
2:B:5:TRP:CG	2:B:6:TYR:N	2.59	0.69
2:B:362:PHE:HE1	4:D:184:PHE:CZ	2.10	0.69
2:B:382:PRO:HB3	4:D:344:GLU:HB2	1.74	0.69
2:B:417:VAL:CG1	2:B:418:LYS:N	2.55	0.69
23:B:1012:CLA:H112	23:B:1023:CLA:CGA	2.22	0.69
23:B:1015:CLA:HBC1	26:B:1045:BCR:C34	2.22	0.69
13:O:141:ARG:HH11	13:O:141:ARG:HG3	1.57	0.69
16:V:48:THR:H	16:V:51:GLN:HE21	1.38	0.69
16:V:70:GLY:HA3	16:V:156:TRP:O	1.92	0.69
2:b:5379:PRO:HG3	2:b:5388:SER:HB2	1.72	0.69
23:c:6025:CLA:CGD	23:c:6025:CLA:CAA	2.65	0.69
23:c:6034:CLA:C4	23:c:6034:CLA:O2A	2.40	0.69
1:A:219:VAL:HG11	4:D:268:HIS:CE1	2.27	0.69
2:B:450:TRP:HB3	23:B:1015:CLA:CMB	2.21	0.69
3:C:203:THR:CG2	3:C:232:ASP:HA	2.22	0.69
23:D:1008:CLA:H71	23:D:1008:CLA:H43	1.71	0.69
12:M:16:LEU:O	12:M:20:VAL:HG12	1.92	0.69
13:O:119:LEU:HG	13:O:155:THR:HG21	1.74	0.69
13:O:223:ILE:HG12	13:O:224:SER:N	2.04	0.69
16:V:30:THR:O	16:V:34:LEU:HD13	1.91	0.69
26:Z:1053:BCR:C38	26:Z:1053:BCR:C23	2.41	0.69
1:a:5269:ARG:HH11	4:d:5231:THR:HG22	1.55	0.69
3:c:5060:ILE:HG13	23:c:6034:CLA:HMD3	1.74	0.69
1:A:106:LEU:HD21	26:A:1044:BCR:H383	1.74	0.69
27:A:1063:LHG:C27	23:C:1032:CLA:H8	2.20	0.69
2:B:257:TRP:CE2	4:D:291:LEU:HD12	2.27	0.69
23:B:1011:CLA:C4D	23:B:1013:CLA:C4	2.70	0.69
1:a:5081:ALA:CB	1:a:5175:GLY:HA3	2.21	0.69
1:a:5130:GLN:HG2	1:a:5144:CYS:HA	1.72	0.69
1:a:5228:THR:O	1:a:5228:THR:HG22	1.92	0.69
23:b:6010:CLA:C4	7:h:5046:LEU:HA	2.21	0.69
23:b:6011:CLA:HBB2	23:b:6013:CLA:C19	2.22	0.69
23:b:6012:CLA:CED	23:b:6012:CLA:H2A	2.23	0.69
23:B:1010:CLA:O1D	23:B:1010:CLA:CAA	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1023:CLA:H122	23:B:1023:CLA:H172	1.73	0.69
30:C:1056:DGD:CAB	30:C:1056:DGD:C6B	2.63	0.69
30:C:1056:DGD:O1A	30:C:1056:DGD:C5A	2.39	0.69
6:F:18:VAL:C	6:F:20:TRP:H	1.99	0.69
16:V:62:ALA:HB1	31:V:1041:HEM:HBB1	1.74	0.69
23:b:6009:CLA:HED3	23:b:6009:CLA:C2A	2.20	0.69
3:c:5154:LYS:NZ	3:c:5261:ARG:HD3	2.08	0.69
8:i:5007:THR:O	8:i:5011:VAL:HG23	1.93	0.69
8:i:5024:LEU:N	8:i:5024:LEU:HD23	2.07	0.69
18:y:5002:ALA:HB1	18:y:5004:LEU:HG	1.72	0.69
2:B:38:ALA:O	2:B:42:LEU:N	2.23	0.69
2:B:158:LEU:HB2	2:B:199:VAL:HG13	1.73	0.69
2:B:460:LEU:HG	30:H:1058:DGD:HAG1	1.74	0.69
23:B:1010:CLA:HMD1	23:B:1011:CLA:H8	1.72	0.69
3:C:32:GLY:HA2	3:C:41:ARG:NH2	2.08	0.69
30:C:1055:DGD:HG32	30:C:1055:DGD:O2D	1.92	0.69
4:D:92:LEU:HA	4:D:104:TRP:CD1	2.27	0.69
1:a:5140:ARG:C	4:d:5220:ASN:HD22	2.00	0.69
1:a:5203:ALA:HA	23:a:6006:CLA:O1A	1.92	0.69
1:a:5315:ASN:O	4:d:5063:LEU:HG	1.93	0.69
2:b:5460:PHE:CD2	30:h:6058:DGD:HAV1	2.28	0.69
23:b:6010:CLA:OBD	23:b:6010:CLA:CED	2.30	0.69
23:b:6011:CLA:HBB1	23:b:6013:CLA:H171	1.70	0.69
23:b:6020:CLA:CBA	23:b:6020:CLA:CMA	2.34	0.69
23:c:6025:CLA:C16	23:c:6031:CLA:CMB	2.68	0.69
4:d:5212:ALA:HB3	24:d:6038:PHO:HBC1	1.74	0.69
10:k:5018:PHE:CZ	20:z:5009:LEU:HD21	2.27	0.69
16:v:5054:GLU:O	16:v:5058:LEU:HB2	1.91	0.69
1:A:33:PHE:CE2	1:A:128:GLY:HA3	2.26	0.69
1:A:188:ALA:CB	1:A:328:MET:HG3	2.20	0.69
23:A:1003:CLA:CAD	23:D:1005:CLA:HAC2	2.22	0.69
23:B:1012:CLA:O1A	23:B:1013:CLA:C4D	2.40	0.69
23:B:1019:CLA:CMB	23:B:1020:CLA:CHC	2.71	0.69
3:C:54:VAL:HG13	23:C:1036:CLA:HED1	1.74	0.69
4:D:256:ILE:HG23	4:D:257:PHE:N	2.08	0.69
15:U:39:LEU:HD12	15:U:39:LEU:N	2.07	0.69
15:U:129:ASN:C	15:U:131:GLY:H	2.00	0.69
16:V:120:SER:O	16:V:123:SER:N	2.25	0.69
1:a:5271:LEU:HD13	1:a:5272:HIS:HD1	1.56	0.69
2:b:5285:VAL:O	2:b:5289:LEU:HB2	1.91	0.69
23:b:6019:CLA:C5	23:b:6021:CLA:HED1	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6021:CLA:H142	23:b:6021:CLA:H202	1.72	0.69
26:b:6047:BCR:C38	26:b:6047:BCR:C23	2.55	0.69
3:c:5236:GLY:HA3	26:c:6054:BCR:H392	1.73	0.69
3:c:5298:PRO:HG3	3:c:5301:PHE:HD2	1.56	0.69
4:d:5113:PHE:C	4:d:5113:PHE:HD1	2.01	0.69
26:h:6049:BCR:C23	26:h:6049:BCR:C40	2.64	0.69
10:k:5032:PHE:CD1	26:k:6052:BCR:H392	2.27	0.69
11:l:5028:ALA:O	11:l:5032:SER:HB3	1.93	0.69
15:u:5055:ILE:HG21	15:u:5065:PHE:CE2	2.27	0.69
1:A:58:VAL:N	1:A:68:SER:HB2	2.08	0.69
1:A:278:TRP:HH2	30:C:1057:DGD:HAG1	1.58	0.69
2:B:207:ILE:O	2:B:210:ILE:HB	1.92	0.69
2:B:368:VAL:O	2:B:368:VAL:HG13	1.91	0.69
23:B:1011:CLA:CBB	23:B:1013:CLA:C19	2.70	0.69
3:C:63:TRP:N	23:C:1034:CLA:HED3	2.07	0.69
3:C:230:LEU:HD12	3:C:233:VAL:HG11	1.74	0.69
11:L:7:ARG:HA	11:L:7:ARG:HE	1.58	0.69
23:a:6006:CLA:HED3	30:c:6057:DGD:HBW1	1.74	0.69
2:b:5240:ALA:HA	2:b:5243:PHE:CD2	2.27	0.69
23:c:6032:CLA:H43	23:c:6032:CLA:CGA	2.23	0.69
16:v:5096:GLU:O	16:v:5099:VAL:HB	1.92	0.69
1:A:54:ALA:HB2	1:A:72:LEU:CD1	2.14	0.69
1:A:99:ALA:HB3	1:A:105:TRP:HB2	1.75	0.69
1:A:118:HIS:HA	1:A:121:LEU:CD2	2.23	0.69
26:A:1044:BCR:H371	26:A:1044:BCR:H392	1.30	0.69
2:B:81:THR:HG21	2:B:83:GLU:OE1	1.93	0.69
2:B:170:ASP:O	2:B:172:TYR:N	2.25	0.69
2:B:362:PHE:CE1	4:D:184:PHE:CZ	2.80	0.69
2:B:487:SER:HB3	2:B:488:PRO:CD	2.22	0.69
23:B:1011:CLA:H192	23:H:1017:CLA:C13	2.20	0.69
23:B:1023:CLA:ND	23:B:1024:CLA:HBC2	2.08	0.69
3:C:305:THR:HG23	3:C:308:GLU:H	1.57	0.69
4:D:302:GLU:HG3	13:O:199:ALA:HB1	1.75	0.69
15:U:85:TYR:O	15:U:114:VAL:HG11	1.91	0.69
16:V:142:ALA:O	16:V:145:ILE:HB	1.93	0.69
1:a:5187:GLN:HB2	23:a:6003:CLA:HAC2	1.75	0.69
1:a:5300:PHE:CB	1:a:5302:PHE:HE1	2.04	0.69
2:b:5361:GLU:HG3	4:d:5296:TYR:CD2	2.27	0.69
23:b:6010:CLA:O1D	23:b:6010:CLA:CAA	2.40	0.69
23:b:6016:CLA:C14	23:d:6008:CLA:CMB	2.71	0.69
3:c:5153:ASP:CG	3:c:5156:LYS:HB2	2.17	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5397:THR:HG21	16:v:5066:CYS:SG	2.33	0.69
23:c:6025:CLA:H151	23:c:6025:CLA:C20	2.13	0.69
23:c:6034:CLA:H41	23:c:6034:CLA:H8	1.67	0.69
4:d:5274:VAL:HG22	25:d:6042:PQ9:H262	1.75	0.69
4:d:5344:GLU:HG3	4:d:5345:VAL:H	1.58	0.69
24:d:6038:PHO:C14	24:d:6038:PHO:C10	2.67	0.69
26:d:6050:BCR:C28	29:d:6059:MGE:H9B2	2.21	0.69
13:o:5066:ILE:O	13:o:5066:ILE:HG13	1.92	0.69
16:v:5109:ASP:O	16:v:5109:ASP:OD2	2.11	0.69
16:v:5154:ASP:C	16:v:5156:TRP:N	2.45	0.69
18:y:5021:LEU:HD21	20:z:5025:VAL:HG22	1.74	0.69
20:z:5053:VAL:C	20:z:5055:GLY:N	2.45	0.69
1:A:27:ARG:NH1	1:A:27:ARG:HB2	2.08	0.69
2:B:419:SER:HA	2:B:422:ARG:NH1	2.07	0.69
23:B:1013:CLA:HMA3	23:B:1014:CLA:HMA2	1.73	0.69
3:C:441:HIS:C	3:C:441:HIS:CD2	2.70	0.69
13:O:186:LYS:HA	13:O:186:LYS:NZ	2.07	0.69
1:a:5219:VAL:HG13	4:d:5268:HIS:CB	2.16	0.69
1:a:5223:LEU:HB2	4:d:5265:ARG:NH1	2.08	0.69
2:b:5024:THR:O	2:b:5024:THR:HG22	1.93	0.69
2:b:5457:LEU:HG	30:h:6058:DGD:CIA	2.22	0.69
23:b:6009:CLA:HHC	23:b:6009:CLA:CBB	2.06	0.69
23:b:6022:CLA:H141	23:b:6022:CLA:H172	0.80	0.69
10:k:5034:ALA:O	10:k:5038:VAL:CG2	2.41	0.69
1:A:178:GLY:HA2	4:D:314:PHE:CD2	2.28	0.69
23:A:1006:CLA:H172	26:D:1050:BCR:C40	2.13	0.69
23:A:1006:CLA:HED3	30:C:1057:DGD:HBW1	1.74	0.69
27:A:1063:LHG:H341	27:A:1063:LHG:C38	2.19	0.69
2:B:271:THR:HG23	2:B:274:GLN:CB	2.11	0.69
2:B:318:ASN:C	2:B:318:ASN:HD22	2.00	0.69
3:C:41:ARG:O	3:C:42:LEU:HB2	1.90	0.69
4:D:123:ILE:HD11	30:H:1058:DGD:HAW2	1.75	0.69
16:V:125:ASP:OD2	16:V:131:ARG:HG2	1.93	0.69
16:V:128:PRO:HA	16:V:131:ARG:HG3	1.73	0.69
1:a:5142:TRP:N	4:d:5220:ASN:HD21	1.88	0.69
27:a:6063:LHG:C27	23:c:6032:CLA:H8	2.20	0.69
23:b:6012:CLA:O1A	23:b:6013:CLA:C4D	2.41	0.69
3:c:5045:LEU:HD22	3:c:5140:LEU:N	2.03	0.69
4:d:5128:ARG:HH11	4:d:5128:ARG:HG3	1.58	0.69
2:B:250:PHE:CD1	2:B:459:ALA:HB1	2.28	0.68
3:C:272:LEU:O	3:C:276:LEU:HB2	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:C:1029:CLA:H191	23:C:1029:CLA:H41	1.73	0.68
13:O:31:LEU:HD23	13:O:31:LEU:N	2.07	0.68
13:O:202:GLN:OE1	13:O:202:GLN:HA	1.92	0.68
1:a:5279:ARG:HD2	1:a:5283:VAL:HG12	1.74	0.68
1:a:5280:VAL:O	1:a:5283:VAL:HG13	1.93	0.68
1:a:5304:HIS:O	1:a:5306:VAL:N	2.26	0.68
2:b:5087:PHE:HE1	2:b:5095:LEU:HD23	1.58	0.68
2:b:5461:PHE:CE2	29:b:6060:MGE:H5B1	2.22	0.68
23:b:6015:CLA:HBC1	26:b:6045:BCR:C34	2.22	0.68
23:b:6017:CLA:HBC2	23:b:6017:CLA:CHD	2.13	0.68
23:b:6022:CLA:C14	23:b:6022:CLA:C8	2.69	0.68
3:c:5212:TYR:HE1	3:c:5227:VAL:HG12	1.57	0.68
3:c:5297:TYR:HB3	3:c:5423:ARG:HH12	1.59	0.68
1:A:321:ILE:O	1:A:325:ASN:ND2	2.27	0.68
2:B:166:MET:HE3	2:B:181:VAL:HG21	1.74	0.68
23:a:6003:CLA:CAD	23:d:6005:CLA:HAC2	2.22	0.68
23:a:6006:CLA:HED2	23:a:6006:CLA:HAA2	1.74	0.68
2:b:5138:ILE:HD12	2:b:5139:HIS:N	2.08	0.68
3:c:5464:GLU:HG3	3:c:5467:LEU:HB2	1.74	0.68
4:d:5153:PHE:HE1	4:d:5158:LEU:HD11	1.57	0.68
20:z:5005:PHE:HD1	20:z:5057:LEU:HD13	1.57	0.68
1:A:159:LEU:O	1:A:163:ILE:HG13	1.92	0.68
1:A:228:THR:HA	2:B:480:SER:HB2	1.73	0.68
1:A:275:LEU:HB3	4:D:211:CYS:O	1.92	0.68
2:B:191:ASN:HD22	2:B:192:PRO:HD2	1.58	0.68
2:B:257:TRP:HH2	4:D:291:LEU:HB3	1.57	0.68
23:B:1010:CLA:HMB1	23:B:1010:CLA:HBB1	1.75	0.68
23:B:1014:CLA:H112	23:B:1014:CLA:H162	1.70	0.68
3:C:137:PRO:HB2	3:C:143:TYR:CE2	2.28	0.68
3:C:222:GLY:O	3:C:223:TRP:C	2.36	0.68
4:D:261:PHE:CE2	4:D:266:TRP:CD1	2.77	0.68
7:H:38:PHE:O	7:H:41:PHE:HB3	1.93	0.68
1:a:5033:PHE:CB	1:a:5129:ARG:HB2	2.24	0.68
1:a:5297:LEU:HD12	3:c:5428:THR:CG2	2.21	0.68
23:a:6003:CLA:HBC2	23:a:6003:CLA:CHD	2.20	0.68
2:b:5163:MET:O	2:b:5175:VAL:HA	1.93	0.68
23:b:6019:CLA:CMB	23:b:6020:CLA:CHC	2.71	0.68
23:b:6023:CLA:CGD	23:b:6023:CLA:CAA	2.65	0.68
4:d:5092:LEU:HA	4:d:5104:TRP:CD1	2.28	0.68
13:o:5036:ILE:HG23	13:o:5041:LEU:HG	1.75	0.68
13:o:5076:PHE:C	13:o:5077:LEU:HD12	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:u:5050:ALA:O	15:u:5051:TYR:C	2.36	0.68
1:A:301:ASN:HB3	3:C:407:VAL:HG21	1.76	0.68
2:B:105:GLY:C	26:B:1047:BCR:H282	2.17	0.68
2:B:421:ALA:O	2:B:424:ALA:HB3	1.92	0.68
23:B:1023:CLA:C4D	23:B:1024:CLA:HMC3	2.23	0.68
3:C:137:PRO:HB2	3:C:143:TYR:CD2	2.28	0.68
3:C:186:TYR:HA	3:C:196:VAL:HA	1.76	0.68
23:C:1025:CLA:C4	23:C:1025:CLA:CMB	2.71	0.68
23:C:1025:CLA:H162	23:C:1031:CLA:CMB	2.23	0.68
4:D:116:LEU:O	4:D:119:ALA:HB3	1.94	0.68
1:a:5124:SER:HA	1:a:5151:LEU:HD22	1.74	0.68
2:b:5247:PHE:HZ	30:h:6058:DGD:HAG2	1.58	0.68
23:b:6010:CLA:HBB1	23:b:6010:CLA:HMB1	1.75	0.68
23:b:6012:CLA:H112	23:b:6023:CLA:CGA	2.23	0.68
23:b:6023:CLA:ND	23:b:6024:CLA:HBC2	2.08	0.68
3:c:5092:ILE:HD11	3:c:5111:PHE:CE2	2.28	0.68
3:c:5298:PRO:HG3	3:c:5301:PHE:CD2	2.29	0.68
11:l:5024:ILE:HD11	12:m:5018:PRO:CG	2.23	0.68
1:A:133:LEU:HD23	4:D:252:PHE:HA	1.76	0.68
1:A:279:ARG:CZ	1:A:279:ARG:HB3	2.23	0.68
2:B:58:GLN:O	2:B:59:GLY:C	2.37	0.68
2:B:373:LYS:C	2:B:375:GLY:H	2.01	0.68
2:B:429:ILE:N	2:B:429:ILE:HD12	2.08	0.68
2:B:444:ARG:HG2	2:B:444:ARG:HH11	1.59	0.68
23:B:1019:CLA:HMB2	23:B:1020:CLA:CHC	2.24	0.68
3:C:62:PHE:CE2	10:K:28:ILE:HG22	2.17	0.68
3:C:350:ILE:HG13	3:C:359:TRP:CB	2.23	0.68
4:D:42:TYR:CZ	6:F:25:THR:HG22	2.28	0.68
4:D:90:LEU:HD11	4:D:107:LEU:O	1.94	0.68
23:D:1008:CLA:H2A	23:D:1008:CLA:O1D	1.94	0.68
15:U:55:ILE:HG21	15:U:65:PHE:CE2	2.28	0.68
18:Y:44:GLY:HA2	20:Z:30:PRO:HD3	1.76	0.68
1:a:5076:ASN:HA	14:t:5006:TYR:CE2	2.28	0.68
2:b:5472:PHE:HD1	4:d:5140:PRO:HD3	1.58	0.68
23:b:6011:CLA:HHD	23:b:6014:CLA:CBB	2.22	0.68
23:b:6012:CLA:HBB1	23:b:6012:CLA:CHC	2.21	0.68
4:d:5087:HIS:HA	4:d:5167:TRP:CD1	2.28	0.68
4:d:5330:ALA:HB3	4:d:5331:PRO:HD3	1.76	0.68
10:k:5028:ILE:CB	10:k:5029:PRO:HD3	2.24	0.68
16:v:5158:GLY:HA3	16:v:5162:TYR:CE2	2.28	0.68
20:z:5023:VAL:HA	20:z:5040:ILE:CD1	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1013:CLA:H152	23:B:1018:CLA:HED1	1.76	0.68
3:C:59:LEU:O	23:C:1034:CLA:HED3	1.93	0.68
23:C:1032:CLA:H42	23:C:1032:CLA:O2A	1.93	0.68
30:C:1055:DGD:HB51	30:C:1055:DGD:O1B	1.93	0.68
26:D:1050:BCR:HC8	26:D:1050:BCR:H331	0.73	0.68
13:O:205:GLU:C	13:O:207:GLU:H	2.01	0.68
20:Z:9:LEU:C	20:Z:11:ALA:N	2.50	0.68
1:a:5219:VAL:CG1	4:d:5268:HIS:CG	2.72	0.68
2:b:5089:SER:O	2:b:5093:VAL:HG23	1.94	0.68
23:b:6010:CLA:HMD1	23:b:6011:CLA:H8	1.72	0.68
23:b:6014:CLA:C9	23:b:6014:CLA:C12	2.30	0.68
3:c:5176:VAL:O	3:c:5180:MET:HB2	1.94	0.68
4:d:5091:LEU:HA	23:d:6008:CLA:HED3	1.76	0.68
4:d:5152:VAL:HG13	4:d:5153:PHE:N	2.08	0.68
10:k:5031:LEU:HB3	26:k:6051:BCR:C14	2.23	0.68
13:o:5065:ARG:CZ	13:o:5109:GLY:H	2.06	0.68
2:B:5:TRP:CD2	2:B:6:TYR:N	2.62	0.68
2:B:258:TYR:O	2:B:259:GLY:O	2.10	0.68
3:C:287:THR:HG23	3:C:427:ALA:CA	2.24	0.68
30:C:1055:DGD:O1B	30:C:1055:DGD:C5B	2.42	0.68
10:K:32:PHE:CE2	26:K:1051:BCR:H341	2.27	0.68
20:Z:17:PHE:HD2	20:Z:17:PHE:O	1.76	0.68
1:a:5292:THR:C	1:a:5294:ALA:H	2.00	0.68
23:b:6019:CLA:HMB2	23:b:6020:CLA:CHC	2.24	0.68
4:d:5018:LEU:HA	17:x:5041:SER:OG	1.94	0.68
5:e:5037:PHE:CD1	5:e:5042:LEU:HD23	2.29	0.68
1:A:60:ILE:HD13	1:A:60:ILE:N	2.09	0.68
1:A:87:ASN:O	1:A:88:ALA:C	2.37	0.68
2:B:465:GLY:CA	23:B:1019:CLA:CBC	2.72	0.68
23:B:1022:CLA:C14	23:B:1022:CLA:C8	2.69	0.68
3:C:45:LEU:HD23	3:C:141:GLU:HG2	1.75	0.68
10:K:24:VAL:HG11	18:Y:25:ILE:HB	1.76	0.68
1:a:5133:LEU:O	1:a:5137:LEU:HB2	1.93	0.68
1:a:5199:GLN:CD	1:a:5200:LEU:HG	2.19	0.68
1:a:5273:PHE:CD2	4:d:5219:GLU:HA	2.24	0.68
23:b:6013:CLA:CMC	23:b:6023:CLA:C1	2.72	0.68
23:b:6016:CLA:H202	23:d:6008:CLA:CMA	2.24	0.68
3:c:5223:TRP:CB	3:c:5224:ILE:HD13	2.22	0.68
23:c:6027:CLA:O2D	23:c:6036:CLA:H11	1.94	0.68
23:c:6032:CLA:H42	23:c:6032:CLA:O2A	1.93	0.68
23:c:6034:CLA:H92	23:c:6034:CLA:C13	2.22	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5195:PRO:CA	4:d:5198:MET:HE2	2.24	0.68
5:e:5059:GLU:OE2	5:e:5059:GLU:HA	1.91	0.68
13:o:5208:LEU:HD12	13:o:5208:LEU:N	2.08	0.68
14:t:5017:PHE:O	14:t:5021:ILE:HG13	1.92	0.68
1:A:231:GLU:OE1	11:L:11:GLU:HB3	1.94	0.68
2:B:133:LEU:HB3	2:B:138:MET:HE1	1.76	0.68
2:B:318:ASN:ND2	2:B:318:ASN:C	2.50	0.68
2:B:488:PRO:HG2	2:B:489:GLU:H	1.59	0.68
23:B:1016:CLA:C14	23:D:1008:CLA:CMB	2.71	0.68
23:B:1019:CLA:HMB2	23:B:1020:CLA:C4B	2.24	0.68
3:C:371:GLY:O	13:O:33:TYR:HB2	1.93	0.68
4:D:83:ASN:HA	4:D:166:SER:OG	1.93	0.68
4:D:90:LEU:HD13	4:D:109:GLY:HA2	1.74	0.68
16:V:102:MET:HE1	16:V:141:ILE:HB	1.74	0.68
17:X:38:ILE:HA	17:X:41:SER:OG	1.93	0.68
20:Z:15:LEU:CD2	20:Z:50:LEU:HD12	2.21	0.68
1:a:5027:ARG:HD2	14:t:5024:ARG:HH21	1.59	0.68
1:a:5219:VAL:CG2	4:d:5268:HIS:CE1	2.75	0.68
2:b:5056:GLY:N	2:b:5326:PRO:CB	2.57	0.68
2:b:5294:THR:CG2	2:b:5297:GLU:HG3	2.24	0.68
23:b:6023:CLA:C4D	23:b:6024:CLA:HMC3	2.23	0.68
17:x:5043:ILE:HG22	17:x:5043:ILE:O	1.94	0.68
2:B:138:MET:HB3	23:B:1023:CLA:CBC	2.24	0.68
2:B:141:ILE:HD12	2:B:142:HIS:N	2.09	0.68
2:B:148:LEU:HB3	2:B:210:ILE:HD11	1.75	0.68
4:D:217:THR:HG21	25:D:1042:PQ9:O4	1.94	0.68
5:E:38:VAL:HG11	6:F:39:ALA:CB	2.24	0.68
2:b:5226:LEU:HD23	2:b:5228:MET:H	1.59	0.68
2:b:5259:THR:O	2:b:5261:PRO:HD3	1.93	0.68
3:c:5039:ASN:HB3	23:c:6032:CLA:HBA1	1.75	0.68
23:c:6028:CLA:H12	30:c:6056:DGD:O1A	1.94	0.68
16:v:5159:GLY:C	16:v:5160:LYS:CG	2.65	0.68
1:A:243:GLU:HA	4:D:241:GLU:HB3	1.76	0.67
1:A:316:THR:C	4:D:63:LEU:HD21	2.18	0.67
2:B:103:LEU:HB2	23:B:1014:CLA:C7	2.15	0.67
23:B:1014:CLA:HMB3	23:B:1014:CLA:CBB	2.11	0.67
23:B:1021:CLA:OBD	23:B:1022:CLA:HMC1	1.95	0.67
4:D:32:TRP:O	4:D:35:ILE:HG13	1.94	0.67
5:E:68:ASP:HB2	5:E:69:ARG:HH21	1.59	0.67
8:I:6:ILE:HD13	8:I:6:ILE:N	2.08	0.67
8:I:7:THR:O	8:I:11:VAL:HG23	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:K:39:VAL:HA	18:Y:36:ILE:CD1	2.24	0.67
1:a:5075:ASN:HB3	14:t:5003:THR:CG2	2.24	0.67
2:b:5002:TRP:CH2	29:d:6061:MGE:H3A1	2.30	0.67
23:b:6013:CLA:H152	23:b:6018:CLA:HED1	1.76	0.67
23:c:6034:CLA:H43	23:c:6034:CLA:O1A	1.94	0.67
30:c:6055:DGD:HB51	30:c:6055:DGD:O1B	1.93	0.67
30:c:6055:DGD:O1B	30:c:6055:DGD:C5B	2.42	0.67
29:d:6062:MGE:CEB	14:t:5013:ILE:HG21	2.24	0.67
7:h:5012:ARG:HD3	7:h:5016:SER:HB2	1.76	0.67
13:o:5136:MET:HB2	13:o:5142:ILE:CD1	2.25	0.67
14:t:5004:ILE:N	14:t:5004:ILE:HD12	2.09	0.67
17:x:5012:ILE:O	17:x:5012:ILE:HG13	1.94	0.67
2:B:456:ALA:CA	30:H:1058:DGD:CIB	2.70	0.67
23:B:1012:CLA:CED	23:B:1012:CLA:H2A	2.24	0.67
23:B:1024:CLA:O2A	23:B:1024:CLA:C2A	2.42	0.67
4:D:195:PRO:HA	4:D:198:MET:HE2	1.76	0.67
13:O:97:VAL:HG13	13:O:98:THR:N	2.09	0.67
1:a:5097:TRP:HA	8:i:5001:MET:CE	2.23	0.67
27:a:6063:LHG:C31	23:c:6034:CLA:C9	2.62	0.67
23:b:6011:CLA:C4D	23:b:6013:CLA:C4	2.70	0.67
23:b:6011:CLA:H193	23:b:6017:CLA:H13	1.76	0.67
23:c:6025:CLA:C4	23:c:6025:CLA:CMB	2.71	0.67
30:c:6056:DGD:HBG2	30:c:6056:DGD:HB41	1.74	0.67
11:l:5014:ARG:HE	14:t:5025:GLU:HB3	1.58	0.67
12:m:5032:GLN:HA	12:m:5032:GLN:NE2	2.08	0.67
20:z:5009:LEU:C	20:z:5011:ALA:N	2.51	0.67
23:A:1007:CLA:HED3	23:A:1007:CLA:OBD	1.94	0.67
2:B:256:MET:HA	2:B:256:MET:HE3	1.75	0.67
23:B:1009:CLA:H43	26:H:1049:BCR:H351	1.73	0.67
23:B:1011:CLA:H193	23:H:1017:CLA:H13	1.76	0.67
3:C:35:TRP:O	3:C:38:GLY:N	2.27	0.67
3:C:89:ILE:HG23	3:C:111:PHE:CE2	2.29	0.67
23:C:1028:CLA:H12	30:C:1056:DGD:O1A	1.94	0.67
4:D:24:ARG:HG2	4:D:24:ARG:HH21	1.57	0.67
9:J:40:LEU:HD22	9:J:40:LEU:N	2.08	0.67
10:K:19:ASP:HA	10:K:22:VAL:HG12	1.76	0.67
1:a:5279:ARG:C	1:a:5279:ARG:HD2	2.20	0.67
2:b:5110:TRP:HB2	26:b:6048:BCR:C37	2.25	0.67
2:b:5153:PHE:N	2:b:5153:PHE:CD2	2.61	0.67
23:c:6031:CLA:O1D	23:c:6033:CLA:C10	2.39	0.67
4:d:5106:GLN:HE21	5:e:5048:GLY:CA	2.06	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:199:GLN:NE2	1:A:200:LEU:HG	2.08	0.67
1:A:279:ARG:C	1:A:283:VAL:CG1	2.68	0.67
24:A:1038:PHO:HED3	24:A:1038:PHO:CHA	2.24	0.67
2:B:5:TRP:HA	2:B:8:VAL:HB	1.76	0.67
2:B:18:ARG:HD2	11:L:4:ASN:HD21	1.59	0.67
2:B:367:PRO:HB2	4:D:345:VAL:CG1	2.25	0.67
2:B:487:SER:CB	2:B:488:PRO:CD	2.72	0.67
23:B:1010:CLA:C12	23:B:1010:CLA:C9	2.30	0.67
3:C:124:VAL:HG23	3:C:125:LEU:N	2.10	0.67
3:C:270:ALA:HB1	3:C:274:TYR:CE1	2.29	0.67
3:C:473:ASP:HB3	14:T:26:PRO:HG3	1.76	0.67
23:C:1025:CLA:O1D	23:C:1025:CLA:CAA	2.42	0.67
4:D:89:LEU:CD2	7:H:52:THR:HG21	2.24	0.67
13:O:111:LEU:CD1	13:O:121:PHE:HB2	2.21	0.67
13:O:187:GLY:HA3	13:O:194:TYR:CD1	2.27	0.67
14:T:10:PHE:C	14:T:12:CYS:H	2.02	0.67
20:Z:48:ILE:O	20:Z:52:LEU:HG	1.94	0.67
1:a:5077:ILE:HG12	14:t:5006:TYR:CD1	2.29	0.67
1:a:5199:GLN:C	1:a:5199:GLN:OE1	2.37	0.67
1:a:5335:ASN:HB3	13:o:5183:LEU:HD12	1.76	0.67
2:b:5012:ASP:C	2:b:5014:GLY:H	2.02	0.67
2:b:5130:LEU:HD23	7:h:5015:ASN:HD21	1.59	0.67
2:b:5180:PRO:HG3	2:b:5196:VAL:HG12	1.76	0.67
23:b:6024:CLA:O2A	23:b:6024:CLA:C2A	2.42	0.67
3:c:5212:TYR:CE1	3:c:5227:VAL:HG12	2.30	0.67
23:c:6025:CLA:O1D	23:c:6025:CLA:CAA	2.42	0.67
1:A:235:TYR:C	1:A:237:TYR:H	2.02	0.67
1:A:268:SER:H	4:D:236:ASN:ND2	1.92	0.67
4:D:180:ARG:HD2	4:D:181:PHE:N	2.08	0.67
23:D:1005:CLA:H2A	23:D:1005:CLA:HED1	1.71	0.67
23:D:1005:CLA:HED3	25:D:1042:PQ9:H391	1.77	0.67
8:I:13:THR:HG22	8:I:14:PHE:H	1.60	0.67
20:Z:49:ALA:O	20:Z:53:VAL:HG23	1.94	0.67
1:a:5280:VAL:C	1:a:5283:VAL:HG13	2.19	0.67
2:b:5002:TRP:C	2:b:5004:ARG:H	2.00	0.67
2:b:5102:GLY:HA2	2:b:5105:PHE:HB3	1.76	0.67
23:b:6014:CLA:O2D	23:b:6014:CLA:C2A	2.42	0.67
3:c:5033:PHE:HD2	3:c:5034:ALA:H	1.39	0.67
3:c:5107:ASP:OD1	3:c:5109:PHE:HB3	1.94	0.67
3:c:5224:ILE:C	3:c:5226:SER:H	2.03	0.67
23:d:6005:CLA:H151	23:d:6005:CLA:H203	1.70	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:t:5025:GLU:HG3	14:t:5025:GLU:O	1.92	0.67
2:B:422:ARG:HD2	2:B:423:LYS:NZ	2.09	0.67
23:B:1016:CLA:H202	23:D:1008:CLA:CMA	2.24	0.67
3:C:128:GLY:HA3	23:C:1037:CLA:HAC1	1.76	0.67
4:D:155:SER:HA	4:D:159:ILE:CD1	2.24	0.67
2:b:5458:LEU:HD23	4:d:5280:TRP:CZ3	2.26	0.67
23:b:6023:CLA:H122	23:b:6023:CLA:C17	2.25	0.67
23:c:6025:CLA:H162	23:c:6031:CLA:CMB	2.23	0.67
4:d:5346:LEU:HD23	16:v:5161:VAL:HG13	1.76	0.67
5:e:5023:HIS:O	5:e:5027:ILE:HG12	1.93	0.67
10:k:5035:LEU:CA	10:k:5038:VAL:HG23	2.23	0.67
13:o:5070:CYS:O	13:o:5265:PHE:HB2	1.94	0.67
13:o:5180:ALA:HB1	13:o:5191:ALA:HB2	1.77	0.67
20:z:5061:VAL:HG23	20:z:5062:VAL:H	1.60	0.67
1:A:73:TYR:CD2	1:A:73:TYR:N	2.58	0.67
2:B:25:MET:HE1	2:B:108:PHE:HD1	1.53	0.67
2:B:388:SER:C	2:B:394:GLN:HE22	2.03	0.67
3:C:346:THR:HG21	3:C:348:GLU:OE1	1.94	0.67
23:C:1034:CLA:C4	23:C:1034:CLA:O1A	2.43	0.67
4:D:251:ARG:HA	4:D:254:SER:OG	1.93	0.67
26:D:1050:BCR:C37	29:J:1059:MGE:C4A	2.47	0.67
9:J:11:TRP:C	9:J:11:TRP:CD1	2.71	0.67
13:O:144:LEU:HD11	13:O:261:ILE:HD11	1.77	0.67
16:V:98:LEU:HD21	16:V:145:ILE:CG2	2.24	0.67
20:Z:23:VAL:HB	20:Z:24:PRO:HD3	1.75	0.67
1:a:5210:LEU:HD13	24:a:6039:PHO:ND	2.10	0.67
23:a:6007:CLA:OBD	23:a:6007:CLA:HED3	1.94	0.67
27:a:6063:LHG:H341	27:a:6063:LHG:C38	2.19	0.67
2:b:5125:THR:OG1	2:b:5127:GLU:HG2	1.94	0.67
2:b:5146:LEU:HB3	23:b:6011:CLA:HBC1	1.76	0.67
2:b:5343:PHE:CD2	2:b:5396:VAL:HG12	2.30	0.67
2:b:5416:SER:HA	2:b:5419:ARG:NH1	2.05	0.67
2:b:5453:ALA:HA	30:h:6058:DGD:HBG2	1.76	0.67
23:b:6019:CLA:HMB2	23:b:6020:CLA:C4B	2.24	0.67
4:d:5022:LEU:HD21	17:x:5037:LEU:HD12	1.77	0.67
12:m:5003:VAL:HG22	12:m:5004:ASN:N	2.09	0.67
16:v:5095:ILE:O	16:v:5099:VAL:HG23	1.93	0.67
2:B:30:VAL:HG11	23:B:1020:CLA:H111	1.75	0.67
2:B:219:VAL:HG12	2:B:220:ARG:N	2.10	0.67
23:B:1010:CLA:CMD	23:B:1011:CLA:H102	2.25	0.67
23:B:1023:CLA:CHD	23:B:1024:CLA:CBC	2.72	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:380:ILE:HG12	3:C:380:ILE:O	1.95	0.67
23:C:1027:CLA:O2D	23:C:1036:CLA:H11	1.95	0.67
23:H:1017:CLA:HBC2	23:H:1017:CLA:CHD	2.13	0.67
10:K:22:VAL:HG23	10:K:25:LEU:HD22	1.77	0.67
1:a:5056:PRO:HG2	1:a:5106:LEU:HD13	1.75	0.67
23:a:6006:CLA:H202	26:d:6050:BCR:H402	1.76	0.67
24:a:6039:PHO:HMC1	24:a:6039:PHO:CBC	2.24	0.67
2:b:5115:TRP:CD1	2:b:5115:TRP:H	2.11	0.67
2:b:5150:PHE:N	23:b:6014:CLA:HMC1	2.10	0.67
2:b:5370:LYS:HD3	2:b:5371:ASN:H	1.58	0.67
2:b:5472:PHE:CD1	4:d:5140:PRO:HD3	2.29	0.67
23:b:6016:CLA:C3	23:b:6017:CLA:H102	2.25	0.67
23:A:1006:CLA:C2B	24:A:1039:PHO:H161	2.25	0.67
23:B:1014:CLA:O2D	23:B:1014:CLA:C2A	2.42	0.67
3:C:289:PHE:HB3	3:C:297:TYR:HE2	1.59	0.67
4:D:299:ILE:O	4:D:303:ILE:HG13	1.95	0.67
10:K:32:PHE:CE1	26:K:1052:BCR:C20	2.78	0.67
15:U:57:LEU:C	15:U:58:ASN:HD22	2.02	0.67
1:a:5217:SER:OG	4:d:5142:ASN:HA	1.94	0.67
1:a:5310:LYS:H	16:v:5028:GLU:HG2	1.58	0.67
23:b:6009:CLA:H43	26:h:6049:BCR:H351	1.73	0.67
23:b:6011:CLA:CMD	23:b:6014:CLA:CBB	2.72	0.67
3:c:5279:LEU:HD12	3:c:5437:PHE:HE1	1.59	0.67
23:d:6008:CLA:O1D	23:d:6008:CLA:H2A	1.94	0.67
1:A:193:LEU:HD22	4:D:179:PHE:CD2	2.29	0.67
1:A:202:VAL:O	1:A:206:PHE:HB2	1.95	0.67
30:C:1056:DGD:HBG2	30:C:1056:DGD:HB41	1.74	0.67
4:D:164:GLN:HG3	4:D:165:SER:N	2.04	0.67
4:D:164:GLN:CG	4:D:165:SER:H	2.03	0.67
4:D:323:GLU:HG2	13:O:194:TYR:OH	1.95	0.67
16:V:133:LEU:HD12	16:V:133:LEU:H	1.59	0.67
1:a:5246:TYR:HE1	4:d:5264:LYS:HZ2	1.42	0.67
2:b:5015:ARG:HD3	2:b:5015:ARG:H	1.60	0.67
2:b:5150:PHE:O	2:b:5154:HIS:HB3	1.94	0.67
2:b:5220:GLN:O	2:b:5222:LEU:N	2.28	0.67
2:b:5312:ILE:C	2:b:5314:ASN:H	2.03	0.67
23:b:6021:CLA:C17	23:b:6021:CLA:H142	2.25	0.67
23:b:6021:CLA:OBD	23:b:6022:CLA:HMC1	1.94	0.67
4:d:5037:LEU:HD13	4:d:5125:PHE:HB2	1.77	0.67
1:A:307:ILE:HG13	1:A:308:ASP:N	2.10	0.66
23:C:1032:CLA:H43	23:C:1032:CLA:CGA	2.23	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:125:PHE:O	4:D:128:ARG:HB3	1.96	0.66
4:D:156:VAL:O	4:D:156:VAL:HG12	1.94	0.66
23:D:1005:CLA:H172	29:D:1062:MGE:H261	1.77	0.66
5:E:83:LEU:HD13	5:E:83:LEU:N	2.11	0.66
23:H:1017:CLA:H3A	23:H:1017:CLA:CGA	2.23	0.66
12:M:34:LYS:HG3	11:l:5009:PRO:CB	2.22	0.66
1:a:5223:LEU:HD22	1:a:5245:THR:O	1.94	0.66
3:c:5274:TYR:N	3:c:5274:TYR:HD1	1.93	0.66
3:c:5288:CYS:CB	30:c:6055:DGD:HB21	2.24	0.66
4:d:5251:ARG:HE	4:d:5255:GLN:NE2	1.93	0.66
11:l:5012:LEU:HD12	12:m:5026:TYR:HA	1.77	0.66
1:A:140:ARG:HD3	4:D:219:GLU:O	1.95	0.66
3:C:162:GLY:CA	3:C:248:GLY:HA2	2.25	0.66
3:C:290:VAL:HG21	3:C:426:LEU:HB2	1.78	0.66
23:C:1026:CLA:H51	23:C:1026:CLA:CGA	2.22	0.66
4:D:122:LEU:HB3	4:D:150:ILE:CD1	2.25	0.66
4:D:261:PHE:HE1	25:D:1042:PQ9:H143	1.59	0.66
26:D:1050:BCR:C28	29:J:1059:MGE:H9B2	2.21	0.66
26:K:1051:BCR:H371	26:K:1051:BCR:H403	1.32	0.66
15:U:103:GLN:O	15:U:106:ARG:N	2.28	0.66
16:V:111:GLU:O	16:V:112:GLN:HB2	1.95	0.66
1:a:5126:TYR:O	1:a:5130:GLN:HB2	1.95	0.66
1:a:5310:LYS:CB	16:v:5028:GLU:HG3	2.23	0.66
1:a:5323:ARG:HH11	1:a:5323:ARG:HG3	1.59	0.66
2:b:5004:ARG:HA	23:b:6019:CLA:CBA	2.25	0.66
2:b:5439:ILE:O	2:b:5439:ILE:HG22	1.93	0.66
2:b:5461:PHE:CE2	29:b:6060:MGE:C6B	2.78	0.66
2:b:5462:GLY:C	2:b:5464:ILE:H	2.02	0.66
23:b:6022:CLA:O1D	23:b:6022:CLA:CAA	2.30	0.66
3:c:5457:LYS:HE2	4:d:5229:ALA:HA	1.76	0.66
23:c:6025:CLA:H203	23:c:6031:CLA:H121	1.78	0.66
4:d:5043:LEU:HD22	4:d:5043:LEU:H	1.60	0.66
13:o:5187:GLY:HA3	13:o:5194:TYR:CD1	2.30	0.66
2:B:277:SER:C	2:B:279:TYR:N	2.51	0.66
4:D:299:ILE:HG22	4:D:300:SER:N	2.09	0.66
25:D:1042:PQ9:H392	11:L:30:LEU:HD12	1.76	0.66
1:a:5075:ASN:ND2	14:t:5002:GLU:CD	2.53	0.66
1:a:5091:LEU:N	1:a:5167:SER:OG	2.28	0.66
1:a:5136:ARG:O	1:a:5137:LEU:HD23	1.95	0.66
1:a:5344:ALA:HB1	3:c:5357:ARG:HH22	1.61	0.66
23:b:6010:CLA:CMD	23:b:6011:CLA:H102	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6014:CLA:C17	26:b:6048:BCR:H312	2.25	0.66
3:c:5073:ALA:C	3:c:5074:HIS:ND1	2.53	0.66
23:c:6033:CLA:CBC	23:c:6033:CLA:CHD	2.69	0.66
4:d:5175:VAL:HG12	4:d:5179:PHE:CE1	2.29	0.66
15:u:5072:TYR:HB3	15:u:5073:PRO:CD	2.25	0.66
1:A:102:LEU:O	1:A:106:LEU:HG	1.96	0.66
2:B:165:GLY:HA3	2:B:180:PRO:HA	1.78	0.66
23:B:1013:CLA:CMC	23:B:1023:CLA:C1	2.72	0.66
3:C:36:TRP:CD1	3:C:37:ALA:N	2.64	0.66
3:C:39:ASN:O	3:C:40:ALA:CB	2.41	0.66
3:C:48:LYS:HB2	3:C:48:LYS:NZ	2.10	0.66
23:C:1032:CLA:C4	23:C:1032:CLA:O2A	2.42	0.66
4:D:92:LEU:HD13	4:D:99:GLY:HA2	1.78	0.66
4:D:347:PRO:O	4:D:348:ARG:HB3	1.94	0.66
11:L:32:SER:O	11:L:35:PHE:HB2	1.96	0.66
13:O:176:SER:HB3	13:O:216:PHE:CE2	2.30	0.66
1:a:5135:TYR:CD1	3:c:5449:ARG:HG3	2.31	0.66
1:a:5261:GLN:C	1:a:5263:ALA:H	2.02	0.66
27:a:6063:LHG:H321	23:c:6034:CLA:C14	2.26	0.66
2:b:5055:GLN:O	2:b:5056:GLY:C	2.39	0.66
23:b:6017:CLA:HMB2	23:b:6018:CLA:C1B	2.25	0.66
3:c:5213:LEU:H	3:c:5213:LEU:HD23	1.61	0.66
4:d:5148:ALA:HB1	4:d:5279:LEU:CD1	2.25	0.66
23:d:6008:CLA:H71	23:d:6008:CLA:H43	1.71	0.66
10:k:5028:ILE:HG22	10:k:5029:PRO:HD3	1.77	0.66
16:v:5148:GLU:O	16:v:5151:ILE:N	2.24	0.66
20:z:5013:VAL:HG13	20:z:5014:ILE:N	2.08	0.66
1:A:90:GLY:O	1:A:92:HIS:N	2.28	0.66
23:A:1006:CLA:H122	30:C:1057:DGD:CIB	2.23	0.66
23:B:1010:CLA:OBD	23:B:1010:CLA:CED	2.30	0.66
23:B:1010:CLA:CMD	23:B:1011:CLA:C10	2.74	0.66
23:B:1018:CLA:C1B	23:H:1017:CLA:HMB2	2.25	0.66
3:C:284:PHE:C	3:C:286:ALA:H	2.01	0.66
3:C:315:MET:HE2	3:C:366:LEU:CD1	2.26	0.66
4:D:269:PHE:O	4:D:269:PHE:CG	2.49	0.66
4:D:281:MET:HA	4:D:281:MET:CE	2.13	0.66
5:E:17:VAL:CG1	9:J:7:ARG:HG2	2.25	0.66
1:a:5192:ILE:CG1	1:a:5293:MET:HE1	2.23	0.66
1:a:5196:PRO:HB2	30:c:6057:DGD:HA81	1.77	0.66
1:a:5269:ARG:CD	4:d:5231:THR:CG2	2.65	0.66
23:c:6026:CLA:H51	23:c:6026:CLA:CGA	2.22	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:c:6033:CLA:H2A	23:c:6033:CLA:O1D	1.96	0.66
1:A:191:ASN:O	1:A:299:GLY:HA3	1.96	0.66
23:A:1003:CLA:H141	24:A:1038:PHO:C8	2.24	0.66
2:B:463:PHE:HE1	23:B:1016:CLA:HBB1	1.59	0.66
3:C:203:THR:H	3:C:235:GLY:HA3	1.61	0.66
3:C:224:ILE:HD11	3:C:285:ILE:CD1	2.26	0.66
23:D:1005:CLA:O2A	23:D:1005:CLA:C5	2.42	0.66
13:O:177:TYR:C	13:O:178:ARG:HG2	2.20	0.66
13:O:216:PHE:HB3	15:U:120:ALA:HB2	1.76	0.66
15:U:50:ALA:HB1	15:U:113:THR:HG21	1.77	0.66
16:V:81:ARG:HD3	16:V:157:GLY:HA3	1.78	0.66
20:Z:37:LYS:HD3	20:Z:38:GLN:N	2.10	0.66
1:a:5093:PHE:CE1	30:c:6055:DGD:HAG2	2.31	0.66
1:a:5159:LEU:HD23	30:c:6055:DGD:HBW1	1.76	0.66
1:a:5171:GLY:O	1:a:5172:MET:C	2.38	0.66
1:a:5271:LEU:HD22	1:a:5272:HIS:H	1.59	0.66
2:b:5280:GLU:OE1	2:b:5280:GLU:HA	1.95	0.66
2:b:5462:GLY:C	2:b:5464:ILE:N	2.44	0.66
23:b:6014:CLA:HMB3	23:b:6014:CLA:CBB	2.11	0.66
3:c:5112:PHE:O	3:c:5116:VAL:HG12	1.95	0.66
3:c:5161:LEU:HD11	23:c:6030:CLA:HBB1	1.78	0.66
3:c:5282:MET:CG	23:c:6025:CLA:H71	2.21	0.66
3:c:5318:LEU:CG	3:c:5328:VAL:HG11	2.24	0.66
3:c:5410:VAL:O	3:c:5412:THR:N	2.29	0.66
4:d:5148:ALA:HB3	4:d:5149:PRO:CD	2.26	0.66
15:u:5039:LEU:H	15:u:5039:LEU:HD12	1.60	0.66
1:A:157:VAL:HG22	1:A:182:PHE:HE2	1.59	0.66
2:B:250:PHE:CE1	2:B:459:ALA:HB1	2.31	0.66
2:B:451:PHE:O	2:B:455:HIS:ND1	2.27	0.66
2:B:460:LEU:CB	30:H:1058:DGD:HAG1	2.25	0.66
23:C:1025:CLA:H151	23:C:1025:CLA:C20	2.13	0.66
4:D:24:ARG:HG2	4:D:24:ARG:NH2	2.09	0.66
4:D:134:ARG:HA	4:D:134:ARG:NE	2.11	0.66
13:O:237:ILE:HG13	13:O:237:ILE:O	1.94	0.66
1:a:5196:PRO:HA	1:a:5199:GLN:HG2	1.76	0.66
2:b:5243:PHE:CD1	2:b:5243:PHE:C	2.72	0.66
3:c:5056:HIS:C	3:c:5058:GLY:H	2.03	0.66
3:c:5121:SER:HA	3:c:5124:VAL:CG2	2.26	0.66
23:c:6030:CLA:CMB	23:c:6031:CLA:NB	2.59	0.66
15:u:5073:PRO:HG2	16:v:5108:TYR:O	1.94	0.66
1:A:116:ILE:HG23	1:A:117:PHE:N	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:71:VAL:HG21	2:B:96:VAL:HG21	1.77	0.66
23:B:1011:CLA:CMD	23:B:1014:CLA:CBB	2.72	0.66
23:B:1014:CLA:C17	26:B:1048:BCR:H312	2.25	0.66
3:C:59:LEU:O	23:C:1034:CLA:CED	2.44	0.66
3:C:159:THR:HG22	3:C:163:PHE:CE2	2.31	0.66
23:C:1030:CLA:HMB2	23:C:1031:CLA:C1B	2.25	0.66
23:C:1030:CLA:CMB	23:C:1031:CLA:NB	2.59	0.66
4:D:209:LEU:HD23	4:D:209:LEU:O	1.96	0.66
20:Z:10:ALA:O	20:Z:13:VAL:HG12	1.96	0.66
23:a:6006:CLA:HAB	24:a:6039:PHO:H142	1.78	0.66
2:b:5219:PRO:HG3	7:h:5027:THR:HG23	1.78	0.66
2:b:5430:ASP:OD1	2:b:5430:ASP:C	2.38	0.66
23:b:6014:CLA:H112	23:b:6014:CLA:H162	1.70	0.66
3:c:5036:TRP:CD1	3:c:5037:ALA:N	2.64	0.66
3:c:5045:LEU:CD1	3:c:5139:THR:HG23	2.26	0.66
3:c:5203:THR:HG22	3:c:5231:GLU:O	1.96	0.66
23:c:6025:CLA:H201	23:c:6031:CLA:H121	1.77	0.66
23:d:6005:CLA:H172	29:d:6062:MGE:H261	1.77	0.66
1:A:95:PRO:O	1:A:97:TRP:N	2.28	0.66
2:B:75:TRP:CG	2:B:94:GLU:HG3	2.31	0.66
2:B:133:LEU:HD23	7:H:15:ASN:ND2	2.11	0.66
2:B:141:ILE:HD12	2:B:142:HIS:H	1.61	0.66
2:B:360:PRO:HD2	2:B:363:PHE:HD2	1.60	0.66
3:C:342:MET:HE3	3:C:352:GLY:HA2	1.78	0.66
4:D:90:LEU:HD23	4:D:96:GLU:HG3	1.77	0.66
26:D:1050:BCR:H373	29:J:1059:MGE:C3A	2.26	0.66
9:J:19:MET:HA	9:J:22:ILE:HG22	1.78	0.66
15:U:57:LEU:HD11	15:U:112:PHE:HB3	1.78	0.66
16:V:158:GLY:O	16:V:162:TYR:HD2	1.78	0.66
23:a:6003:CLA:CBD	23:d:6005:CLA:HAC2	2.26	0.66
23:b:6014:CLA:HHD	23:b:6014:CLA:CBC	2.12	0.66
3:c:5082:TYR:HD2	3:c:5302:TYR:O	1.79	0.66
3:c:5120:ILE:HG21	26:z:6053:BCR:C34	2.25	0.66
3:c:5236:GLY:C	3:c:5238:ILE:H	2.01	0.66
23:c:6028:CLA:C4	30:c:6057:DGD:HA42	2.26	0.66
6:f:5017:THR:O	6:f:5020:TRP:HB3	1.95	0.66
7:h:5014:LEU:H	7:h:5014:LEU:CD1	2.08	0.66
13:o:5230:VAL:HG13	13:o:5237:ILE:HG22	1.77	0.66
15:u:5122:VAL:CG1	15:u:5127:ARG:HG3	2.25	0.66
20:z:5001:MET:HB2	20:z:5004:LEU:HD11	1.78	0.66
1:A:192:ILE:HG12	1:A:293:MET:HE1	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:279:ARG:NE	4:D:208:ALA:HB1	2.09	0.66
23:A:1003:CLA:HBB1	23:A:1003:CLA:HMB1	1.78	0.66
2:B:5:TRP:CG	2:B:6:TYR:H	2.14	0.66
23:B:1009:CLA:C4	26:H:1049:BCR:C35	2.68	0.66
23:B:1010:CLA:C1D	23:B:1011:CLA:HMB1	2.26	0.66
23:B:1016:CLA:C3	23:H:1017:CLA:H102	2.25	0.66
23:B:1022:CLA:H92	23:B:1022:CLA:H52	0.70	0.66
29:B:1060:MGE:H2A2	29:L:1061:MGE:H2B1	1.76	0.66
3:C:162:GLY:O	3:C:166:ILE:HG12	1.96	0.66
23:C:1037:CLA:C3B	26:Z:1053:BCR:H282	2.26	0.66
4:D:209:LEU:HD13	25:D:1042:PQ9:C19	2.26	0.66
6:F:18:VAL:HA	6:F:21:VAL:HG23	1.78	0.66
18:Y:19:ILE:HG23	18:Y:20:ALA:N	2.11	0.66
20:Z:13:VAL:CG1	20:Z:14:ILE:H	2.09	0.66
2:b:5150:PHE:N	23:b:6014:CLA:CMC	2.59	0.66
2:b:5479:ILE:HG21	4:d:5138:VAL:HA	1.77	0.66
4:d:5040:CYS:C	4:d:5042:TYR:H	2.04	0.66
13:o:5117:GLY:HA3	13:o:5158:ASN:ND2	2.10	0.66
15:u:5092:LEU:HD21	15:u:5106:ARG:HG2	1.76	0.66
2:B:465:GLY:C	2:B:467:ILE:N	2.49	0.65
3:C:334:PRO:HD2	3:C:335:THR:HG23	1.78	0.65
4:D:72:ASN:HD22	4:D:74:LEU:N	1.93	0.65
14:T:4:ILE:C	14:T:4:ILE:CD1	2.64	0.65
1:a:5053:ILE:O	1:a:5071:LEU:HB2	1.96	0.65
1:a:5057:PRO:HG2	13:o:5141:ARG:NH2	2.11	0.65
1:a:5206:PHE:CE2	23:d:6004:CLA:HBA2	2.31	0.65
24:a:6039:PHO:H42	4:d:5041:ALA:HB1	1.77	0.65
2:b:5145:LEU:HB3	2:b:5207:ILE:HD11	1.78	0.65
2:b:5321:LEU:CA	4:d:5293:LEU:HD13	2.24	0.65
3:c:5160:ILE:HB	23:c:6031:CLA:HMD1	1.77	0.65
3:c:5305:THR:HG22	3:c:5308:GLU:CB	2.20	0.65
23:c:6037:CLA:C3B	26:z:6053:BCR:H282	2.26	0.65
16:v:5128:PRO:HA	16:v:5131:ARG:HG3	1.78	0.65
1:A:301:ASN:ND2	3:C:407:VAL:HG11	2.11	0.65
2:B:222:PRO:HD2	23:H:1017:CLA:HED2	1.77	0.65
3:C:288:CYS:SG	30:C:1055:DGD:C2B	2.85	0.65
23:C:1032:CLA:H2A	23:C:1032:CLA:O2D	1.96	0.65
4:D:72:ASN:O	4:D:76:VAL:HG23	1.96	0.65
4:D:101:PHE:C	4:D:101:PHE:CD1	2.73	0.65
6:F:28:VAL:HA	6:F:31:ILE:HG22	1.77	0.65
14:T:1:MET:O	14:T:4:ILE:N	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5076:ASN:ND2	1:a:5078:ILE:H	1.94	0.65
1:a:5149:ALA:HB1	1:a:5283:VAL:CG1	2.27	0.65
1:a:5274:PHE:C	1:a:5276:ALA:N	2.53	0.65
2:b:5027:VAL:HG12	23:b:6013:CLA:HMD3	1.78	0.65
2:b:5281:ILE:HB	2:b:5302:ILE:CD1	2.25	0.65
2:b:5323:ARG:HE	2:b:5439:ILE:HG22	1.62	0.65
23:b:6010:CLA:CMD	23:b:6011:CLA:C10	2.74	0.65
23:c:6032:CLA:C4	23:c:6032:CLA:O2A	2.42	0.65
5:e:5050:PRO:HB3	5:e:5054:SER:O	1.96	0.65
9:j:5019:MET:O	9:j:5023:VAL:HB	1.95	0.65
1:A:195:HIS:CE1	1:A:197:PHE:HB2	2.31	0.65
1:A:244:GLU:HG3	4:D:264:LYS:NZ	2.11	0.65
27:A:1063:LHG:H321	23:C:1034:CLA:C14	2.25	0.65
2:B:25:MET:O	2:B:26:HIS:C	2.39	0.65
2:B:133:LEU:HD23	7:H:15:ASN:HD21	1.60	0.65
23:B:1021:CLA:C17	23:B:1021:CLA:H142	2.25	0.65
3:C:95:LEU:HD22	3:C:95:LEU:H	1.61	0.65
3:C:437:PHE:CZ	23:C:1032:CLA:HBB2	2.30	0.65
23:C:1028:CLA:C17	23:C:1028:CLA:C12	2.41	0.65
4:D:148:ALA:HB3	4:D:149:PRO:CD	2.27	0.65
1:a:5216:GLY:O	1:a:5219:VAL:HG12	1.96	0.65
2:b:5006:HIS:CE1	23:b:6020:CLA:HBB2	2.32	0.65
2:b:5139:HIS:HA	2:b:5142:LEU:HD12	1.78	0.65
2:b:5451:ALA:O	2:b:5453:ALA:N	2.25	0.65
3:c:5126:GLY:HA2	26:k:6052:BCR:H363	1.77	0.65
23:c:6027:CLA:CBC	23:c:6027:CLA:HMC3	2.25	0.65
23:c:6027:CLA:H152	26:z:6053:BCR:C33	2.27	0.65
23:c:6032:CLA:H2A	23:c:6032:CLA:O2D	1.96	0.65
4:d:5189:HIS:ND1	4:d:5294:ARG:HD2	2.11	0.65
16:v:5084:THR:HG22	31:v:6041:HEM:O1A	1.96	0.65
23:A:1003:CLA:H162	24:A:1038:PHO:H93	1.77	0.65
2:B:135:LEU:HA	2:B:138:MET:HE3	1.79	0.65
3:C:261:ARG:HG2	3:C:261:ARG:NH1	2.12	0.65
23:C:1032:CLA:CED	23:C:1032:CLA:C2A	2.33	0.65
13:O:136:MET:HB2	13:O:142:ILE:HD13	1.77	0.65
13:O:141:ARG:NH1	13:O:141:ARG:HG3	2.11	0.65
16:V:111:GLU:HG3	16:V:112:GLN:H	1.61	0.65
17:X:13:THR:HG23	17:X:14:PRO:HD2	1.77	0.65
1:a:5028:LEU:HA	4:d:5255:GLN:HA	1.76	0.65
1:a:5090:GLY:C	1:a:5092:HIS:N	2.54	0.65
2:b:5073:SER:HB2	2:b:5075:TRP:CD1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5226:LEU:HD22	2:b:5228:MET:HE2	1.77	0.65
3:c:5058:GLY:HA2	3:c:5125:LEU:CG	2.26	0.65
3:c:5186:TYR:HA	3:c:5196:VAL:HA	1.78	0.65
3:c:5224:ILE:HD11	3:c:5285:ILE:CD1	2.25	0.65
4:d:5286:VAL:HG21	23:d:6004:CLA:HED2	1.79	0.65
4:d:5300:SER:O	4:d:5303:ILE:HD11	1.96	0.65
6:f:5040:MET:C	6:f:5042:PHE:H	2.04	0.65
2:B:5:TRP:CZ2	29:L:1061:MGE:H3A1	2.32	0.65
2:B:390:TYR:N	2:B:390:TYR:CD1	2.64	0.65
3:C:420:VAL:HB	3:C:425:TRP:HE1	1.62	0.65
4:D:57:SER:CB	4:D:79:SER:HB2	2.27	0.65
14:T:7:VAL:HG12	14:T:8:PHE:N	2.11	0.65
17:X:38:ILE:HA	17:X:41:SER:CB	2.26	0.65
23:a:6006:CLA:C2B	24:a:6039:PHO:H161	2.25	0.65
23:b:6022:CLA:H52	23:b:6022:CLA:H92	0.70	0.65
3:c:5057:ALA:HB3	23:c:6036:CLA:HED3	1.78	0.65
3:c:5172:ALA:HB3	3:c:5241:GLY:HA2	1.78	0.65
3:c:5384:ILE:O	3:c:5384:ILE:HG23	1.96	0.65
10:k:5034:ALA:CB	26:k:6051:BCR:C17	2.74	0.65
16:v:5067:HIS:CE1	16:v:5072:THR:OG1	2.50	0.65
2:B:103:LEU:O	2:B:106:LEU:HB3	1.97	0.65
23:C:1031:CLA:CBA	23:C:1033:CLA:HED2	2.26	0.65
4:D:102:THR:O	4:D:105:CYS:HB3	1.97	0.65
26:H:1049:BCR:C23	26:H:1049:BCR:C40	2.64	0.65
9:J:17:ALA:C	9:J:19:MET:H	2.04	0.65
13:O:215:ARG:HH11	13:O:215:ARG:HG2	1.60	0.65
15:U:73:PRO:HG2	16:V:108:TYR:O	1.96	0.65
20:Z:46:LEU:O	20:Z:50:LEU:N	2.29	0.65
1:a:5183:MET:HB3	23:a:6003:CLA:HBC3	1.78	0.65
23:a:6006:CLA:H171	26:d:6050:BCR:H292	1.69	0.65
2:b:5155:LEU:HB2	2:b:5196:VAL:HG13	1.79	0.65
2:b:5180:PRO:HB3	2:b:5197:ALA:CB	2.23	0.65
3:c:5310:SER:OG	3:c:5355:THR:HG23	1.97	0.65
4:d:5120:PHE:HA	4:d:5123:ILE:HG12	1.78	0.65
26:d:6050:BCR:H373	29:d:6059:MGE:C3A	2.26	0.65
16:v:5038:LEU:HD23	16:v:5038:LEU:H	1.61	0.65
17:x:5035:ALA:HA	17:x:5038:ILE:CD1	2.23	0.65
2:B:79:SER:C	2:B:81:THR:H	2.05	0.65
2:B:81:THR:HB	2:B:83:GLU:HG3	1.78	0.65
23:B:1016:CLA:O1A	23:B:1016:CLA:C3A	2.45	0.65
3:C:39:ASN:O	3:C:40:ALA:HB3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:154:LYS:HE2	3:C:256:PRO:HG2	1.77	0.65
3:C:212:TYR:HE1	3:C:227:VAL:HG12	1.61	0.65
23:C:1027:CLA:H152	26:Z:1053:BCR:C33	2.27	0.65
4:D:259:ILE:HD11	14:T:21:ILE:CA	2.26	0.65
9:J:10:LEU:C	9:J:13:VAL:HG23	2.21	0.65
1:a:5070:SER:O	1:a:5074:GLY:C	2.40	0.65
1:a:5247:ASN:HD22	1:a:5250:ALA:CB	2.09	0.65
1:a:5307:ILE:HD11	1:a:5311:GLY:O	1.96	0.65
2:b:5356:MET:HE2	2:b:5360:PHE:O	1.97	0.65
23:c:6026:CLA:H203	23:c:6026:CLA:C1D	2.26	0.65
26:d:6050:BCR:C37	29:d:6059:MGE:C4A	2.47	0.65
29:d:6062:MGE:H4A2	14:t:5017:PHE:CD2	2.32	0.65
14:t:5014:ILE:HG23	26:t:1046:BCR:H10C	1.78	0.65
1:A:223:LEU:HG	4:D:265:ARG:CZ	2.26	0.65
1:A:284:TRP:CZ2	3:C:439:VAL:HG21	2.32	0.65
1:A:300:PHE:HB3	1:A:302:PHE:HE1	1.61	0.65
2:B:91:TRP:HA	2:B:91:TRP:CE3	2.32	0.65
23:C:1033:CLA:O1D	23:C:1033:CLA:H2A	1.96	0.65
30:C:1057:DGD:HAS1	29:J:1059:MGE:H222	1.79	0.65
4:D:89:LEU:HD22	4:D:89:LEU:H	1.60	0.65
4:D:304:ARG:NH1	4:D:311:PHE:HD2	1.94	0.65
14:T:1:MET:O	14:T:3:THR:N	2.29	0.65
26:T:6046:BCR:C20	26:b:6047:BCR:H363	2.27	0.65
20:Z:25:VAL:HG12	20:Z:29:SER:OG	1.96	0.65
1:a:5272:HIS:O	1:a:5274:PHE:N	2.30	0.65
2:b:5484:SER:CB	2:b:5485:PRO:CD	2.75	0.65
4:d:5083:ASN:N	4:d:5168:PHE:HD1	1.94	0.65
29:d:6062:MGE:H1G1	11:l:5019:LEU:HD23	1.76	0.65
16:v:5123:SER:O	16:v:5125:ASP:N	2.30	0.65
20:z:5023:VAL:O	20:z:5026:ALA:HB3	1.97	0.65
1:A:96:ILE:HG13	1:A:105:TRP:CD2	2.31	0.65
2:B:64:PRO:HB2	2:B:268:PHE:CD2	2.32	0.65
2:B:364:GLU:HG3	4:D:296:TYR:CD2	2.31	0.65
23:B:1022:CLA:C8	23:B:1022:CLA:H142	2.27	0.65
3:C:86:LEU:O	3:C:90:PRO:HG2	1.97	0.65
23:C:1028:CLA:C4	30:C:1057:DGD:HA42	2.26	0.65
23:C:1033:CLA:CBC	23:C:1033:CLA:CHD	2.69	0.65
4:D:102:THR:O	4:D:106:GLN:HG3	1.96	0.65
4:D:259:ILE:CD1	14:T:21:ILE:HA	2.26	0.65
1:a:5090:GLY:HA2	1:a:5167:SER:CB	2.27	0.65
1:a:5149:ALA:HB2	1:a:5280:VAL:HG13	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:a:6006:CLA:HBB1	23:d:6004:CLA:H42	1.79	0.65
2:b:5135:MET:SD	23:b:6023:CLA:HBC2	2.37	0.65
3:c:5062:PHE:HA	3:c:5122:SER:HB2	1.79	0.65
3:c:5085:GLY:N	30:c:6056:DGD:HE4	2.11	0.65
3:c:5441:HIS:HD2	3:c:5442:LEU:HD23	1.62	0.65
30:c:6055:DGD:HB72	30:c:6055:DGD:HB32	1.79	0.65
30:c:6057:DGD:HAS1	29:d:6059:MGE:H222	1.79	0.65
4:d:5033:SER:OG	4:d:5128:ARG:HD3	1.96	0.65
26:d:6050:BCR:HC8	26:d:6050:BCR:H331	0.73	0.65
16:v:5120:SER:O	16:v:5123:SER:CB	2.41	0.65
1:A:126:TYR:O	1:A:130:GLN:HB2	1.97	0.65
1:A:296:ASN:HB3	3:C:401:LEU:HA	1.78	0.65
23:C:1028:CLA:HBB1	23:C:1028:CLA:CHC	2.25	0.65
4:D:24:ARG:HH21	4:D:24:ARG:CG	2.10	0.65
6:F:11:VAL:HG12	6:F:12:SER:N	2.10	0.65
8:I:20:VAL:O	8:I:24:LEU:HD23	1.96	0.65
15:U:88:VAL:HG12	15:U:109:LEU:CD1	2.27	0.65
15:U:98:THR:H	15:U:101:GLN:HG3	1.61	0.65
15:U:127:ARG:HG2	15:U:127:ARG:HH11	1.61	0.65
1:a:5096:ILE:HD11	1:a:5102:LEU:HD11	1.78	0.65
2:b:5012:ASP:OD1	2:b:5012:ASP:O	2.14	0.65
2:b:5022:MET:O	2:b:5023:HIS:C	2.40	0.65
23:b:6010:CLA:C1D	23:b:6011:CLA:HMB1	2.26	0.65
3:c:5096:GLY:HA2	3:c:5099:VAL:HG13	1.79	0.65
3:c:5261:ARG:HG2	3:c:5261:ARG:NH1	2.09	0.65
23:c:6029:CLA:H193	8:i:5019:PHE:CE2	2.31	0.65
24:d:6038:PHO:HED3	24:d:6038:PHO:CHA	2.24	0.65
12:m:5026:TYR:O	12:m:5029:THR:HB	1.97	0.65
1:A:50:ILE:HB	26:A:1044:BCR:H391	1.79	0.64
1:A:63:ILE:HG13	1:A:65:GLU:HG2	1.78	0.64
1:A:128:GLY:O	1:A:130:GLN:N	2.30	0.64
2:B:59:GLY:N	2:B:329:PRO:CB	2.61	0.64
2:B:121:GLU:OE1	7:H:4:ARG:HA	1.98	0.64
23:B:1020:CLA:H52	23:B:1020:CLA:CGA	2.26	0.64
23:B:1021:CLA:H172	23:B:1021:CLA:H142	1.79	0.64
3:C:96:GLY:HA2	3:C:99:VAL:CG1	2.27	0.64
3:C:160:ILE:HB	23:C:1031:CLA:HMD1	1.79	0.64
3:C:285:ILE:HG23	23:C:1025:CLA:H52	1.79	0.64
23:C:1025:CLA:H201	23:C:1031:CLA:H121	1.77	0.64
4:D:328:TRP:CD1	4:D:346:LEU:HD11	2.32	0.64
9:J:10:LEU:HA	9:J:13:VAL:CG2	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:X:30:LEU:O	17:X:34:PHE:HB2	1.97	0.64
18:Y:31:ALA:O	18:Y:35:ILE:HG23	1.96	0.64
1:a:5099:ALA:HA	1:a:5104:GLU:CD	2.22	0.64
24:a:6039:PHO:O2D	24:a:6039:PHO:H2A	1.98	0.64
2:b:5377:ASP:OD2	4:d:5345:VAL:HG22	1.96	0.64
2:b:5462:GLY:HA3	23:b:6019:CLA:CBC	2.27	0.64
23:b:6021:CLA:H172	23:b:6021:CLA:H142	1.79	0.64
3:c:5033:PHE:HZ	3:c:5040:ALA:HB3	1.63	0.64
3:c:5072:LEU:C	3:c:5074:HIS:H	2.03	0.64
23:c:6031:CLA:CBA	23:c:6033:CLA:HED2	2.26	0.64
4:d:5089:LEU:HG	4:d:5091:LEU:CD1	2.28	0.64
4:d:5223:PHE:HZ	4:d:5245:SER:HB2	1.61	0.64
9:j:5011:TRP:CD1	9:j:5011:TRP:C	2.75	0.64
11:l:5030:LEU:HD22	11:l:5031:PHE:CD1	2.32	0.64
13:o:5059:ASP:CG	13:o:5061:SER:HB3	2.21	0.64
2:B:7:ARG:HA	23:B:1019:CLA:HBA1	1.79	0.64
2:B:106:LEU:HD11	26:B:1048:BCR:C35	2.27	0.64
2:B:223:GLN:O	2:B:225:LEU:N	2.29	0.64
2:B:257:TRP:NE1	4:D:163:GLY:O	2.30	0.64
26:B:1045:BCR:C8	26:B:1045:BCR:C33	2.76	0.64
3:C:318:LEU:HG	3:C:328:VAL:HG11	1.78	0.64
3:C:461:ARG:NH2	4:D:223:PHE:HD2	1.95	0.64
2:b:5100:LEU:HD23	23:b:6014:CLA:H72	1.80	0.64
2:b:5277:PHE:CZ	2:b:5309:TYR:HB3	2.32	0.64
2:b:5484:SER:HB3	2:b:5485:PRO:CD	2.28	0.64
23:b:6010:CLA:H191	4:d:5154:VAL:HG13	1.79	0.64
23:b:6012:CLA:H91	23:b:6012:CLA:C12	2.01	0.64
23:b:6022:CLA:C8	23:b:6022:CLA:H142	2.27	0.64
23:b:6023:CLA:CHD	23:b:6024:CLA:CBC	2.72	0.64
23:b:6023:CLA:H141	23:b:6024:CLA:H61	1.79	0.64
23:c:6034:CLA:C4	23:c:6034:CLA:O1A	2.45	0.64
4:d:5246:MET:SD	4:d:5264:LYS:HB3	2.36	0.64
4:d:5256:ILE:HG23	4:d:5257:PHE:H	1.60	0.64
5:e:5010:PHE:O	5:e:5012:ASP:N	2.29	0.64
8:i:5006:ILE:O	8:i:5009:TYR:N	2.29	0.64
13:o:5209:ALA:CA	13:o:5212:ASN:HD22	2.10	0.64
13:o:5225:LEU:HD12	13:o:5225:LEU:N	2.12	0.64
2:B:362:PHE:CE2	4:D:164:GLN:NE2	2.65	0.64
2:B:388:SER:HA	4:D:344:GLU:OE1	1.97	0.64
3:C:244:CYS:HA	23:C:1030:CLA:HMC1	1.80	0.64
4:D:222:LEU:HA	4:D:243:THR:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:37:LEU:O	7:H:40:VAL:HG12	1.98	0.64
13:O:205:GLU:O	13:O:207:GLU:N	2.30	0.64
15:U:39:LEU:H	15:U:39:LEU:CD1	2.03	0.64
1:a:5130:GLN:HE21	4:d:5256:ILE:HD13	1.60	0.64
1:a:5149:ALA:N	1:a:5150:PRO:HD2	2.12	0.64
2:b:5220:GLN:C	2:b:5222:LEU:H	2.06	0.64
2:b:5453:ALA:HA	30:h:6058:DGD:HBG1	1.78	0.64
23:b:6023:CLA:H72	26:b:6048:BCR:H341	1.79	0.64
3:c:5053:HIS:HB2	23:c:6036:CLA:CMD	2.27	0.64
3:c:5160:ILE:HA	3:c:5163:PHE:HD2	1.62	0.64
3:c:5263:ALA:H	8:i:5028:PRO:HG2	1.62	0.64
3:c:5459:ILE:HB	4:d:5223:PHE:CD1	2.33	0.64
4:d:5219:GLU:O	4:d:5222:LEU:HD11	1.97	0.64
7:h:5005:THR:HG23	7:h:5008:GLY:HA3	1.78	0.64
10:k:5028:ILE:HD11	18:y:5010:ILE:CD1	2.26	0.64
10:k:5031:LEU:N	10:k:5031:LEU:HD23	2.12	0.64
1:A:73:TYR:HD2	1:A:73:TYR:N	1.89	0.64
23:A:1003:CLA:CBD	23:D:1005:CLA:HAC2	2.26	0.64
2:B:31:ALA:CB	23:B:1013:CLA:HBC3	2.27	0.64
2:B:66:MET:SD	23:B:1013:CLA:HED1	2.38	0.64
2:B:223:GLN:O	2:B:227:LYS:HG2	1.98	0.64
23:B:1011:CLA:HHD	23:B:1014:CLA:CBB	2.22	0.64
23:B:1023:CLA:H141	23:B:1024:CLA:H61	1.79	0.64
4:D:89:LEU:CD2	4:D:89:LEU:H	2.10	0.64
4:D:130:PHE:HE2	4:D:140:PRO:HB2	1.62	0.64
4:D:148:ALA:HB3	4:D:149:PRO:HD3	1.79	0.64
5:E:19:TYR:HD1	5:E:20:TRP:HD1	1.46	0.64
29:L:1061:MGE:H9A2	12:M:18:PRO:HB3	1.80	0.64
1:a:5140:ARG:NH2	27:a:6063:LHG:HC2	2.06	0.64
2:b:5454:VAL:HG22	4:d:5284:ILE:HG23	1.79	0.64
3:c:5439:VAL:HG22	23:c:6032:CLA:HBC1	1.79	0.64
20:z:5013:VAL:HG13	20:z:5014:ILE:H	1.63	0.64
2:B:464:PHE:HB3	4:D:280:TRP:CH2	2.31	0.64
9:J:40:LEU:HD12	16:V:56:LYS:HD3	1.79	0.64
13:O:85:LYS:HE3	2:b:5402:GLU:OE2	1.97	0.64
18:Y:20:ALA:HB1	18:Y:22:LEU:HG	1.78	0.64
2:b:5029:GLY:O	2:b:5033:SER:HB2	1.97	0.64
2:b:5381:ARG:HA	13:o:5192:SER:CB	2.27	0.64
4:d:5149:PRO:C	4:d:5152:VAL:HG12	2.21	0.64
5:e:5042:LEU:O	5:e:5046:VAL:HG23	1.98	0.64
8:i:5005:LYS:O	8:i:5008:VAL:HB	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k:5026:PRO:C	10:k:5028:ILE:H	2.05	0.64
16:v:5128:PRO:C	16:v:5130:MET:N	2.54	0.64
1:A:130:GLN:HA	4:D:256:ILE:CD1	2.27	0.64
1:A:228:THR:HA	2:B:480:SER:CB	2.28	0.64
1:A:288:LEU:CD2	3:C:432:VAL:HG13	2.28	0.64
24:A:1039:PHO:H2A	24:A:1039:PHO:O2D	1.98	0.64
23:C:1026:CLA:H203	23:C:1026:CLA:C1D	2.26	0.64
4:D:191:TRP:NE1	4:D:197:HIS:CD2	2.66	0.64
29:D:1062:MGE:H2A2	14:T:20:ALA:HB1	1.79	0.64
5:E:19:TYR:C	5:E:21:VAL:H	2.05	0.64
20:Z:13:VAL:CG1	20:Z:14:ILE:N	2.61	0.64
1:a:5247:ASN:ND2	1:a:5250:ALA:CB	2.60	0.64
23:a:6003:CLA:HMB1	23:a:6003:CLA:HBB1	1.78	0.64
23:b:6016:CLA:HBC2	23:b:6016:CLA:CHD	2.28	0.64
3:c:5121:SER:C	3:c:5124:VAL:HG23	2.20	0.64
3:c:5306:GLY:HA2	3:c:5400:PRO:HG2	1.80	0.64
3:c:5404:LEU:O	3:c:5404:LEU:HD13	1.97	0.64
23:c:6027:CLA:H172	26:z:6053:BCR:H10C	1.79	0.64
23:c:6033:CLA:H93	23:c:6033:CLA:C5	2.26	0.64
23:d:6005:CLA:H2A	23:d:6005:CLA:HED1	1.71	0.64
13:o:5152:VAL:O	13:o:5170:GLY:HA3	1.98	0.64
13:o:5265:PHE:CD1	13:o:5266:TYR:N	2.65	0.64
1:A:127:MET:HE1	1:A:148:SER:HA	1.79	0.64
1:A:177:SER:HA	1:A:180:PHE:CD2	2.32	0.64
2:B:15:ASP:O	2:B:15:ASP:OD1	2.15	0.64
2:B:253:ALA:O	30:H:1058:DGD:HBW2	1.97	0.64
2:B:289:GLN:NE2	2:B:289:GLN:HA	2.11	0.64
23:B:1015:CLA:CBA	23:B:1015:CLA:NA	2.46	0.64
23:B:1023:CLA:H72	26:B:1048:BCR:H341	1.79	0.64
3:C:276:LEU:C	3:C:278:ALA:H	2.06	0.64
29:D:1062:MGE:H2A2	14:T:20:ALA:CB	2.28	0.64
9:J:19:MET:HA	9:J:22:ILE:CG2	2.27	0.64
11:L:10:VAL:HG12	12:m:5036:SER:HA	1.80	0.64
20:Z:43:GLY:O	20:Z:47:TRP:HB2	1.97	0.64
1:a:5225:ARG:HB3	2:b:5481:PRO:HG3	1.79	0.64
1:a:5274:PHE:O	1:a:5276:ALA:N	2.30	0.64
2:b:5097:HIS:O	2:b:5100:LEU:HB3	1.97	0.64
2:b:5311:TYR:CE2	2:b:5313:GLY:HA3	2.31	0.64
2:b:5340:HIS:HE1	2:b:5342:VAL:HG13	1.61	0.64
23:b:6016:CLA:O1A	23:b:6016:CLA:C3A	2.45	0.64
23:b:6020:CLA:H52	23:b:6020:CLA:CGA	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5230:LEU:HD12	3:c:5233:VAL:HG11	1.79	0.64
5:e:5030:LEU:CD1	6:f:5031:ILE:HG23	2.26	0.64
7:h:5053:LEU:HG	7:h:5055:LEU:CD1	2.26	0.64
11:l:5036:PHE:CZ	12:m:5008:PHE:HB2	2.33	0.64
13:o:5046:PRO:HD2	13:o:5266:TYR:HD2	1.61	0.64
16:v:5105:PRO:HD2	16:v:5115:ALA:HB2	1.80	0.64
1:A:77:ILE:HG12	14:T:6:TYR:CD1	2.32	0.64
23:A:1006:CLA:HBB1	23:D:1004:CLA:H42	1.79	0.64
24:A:1039:PHO:HBC1	4:D:275:PRO:HB3	1.79	0.64
2:B:10:THR:O	2:B:13:ILE:HG13	1.97	0.64
2:B:257:TRP:CE3	2:B:452:THR:HG21	2.32	0.64
23:B:1012:CLA:HBB1	23:B:1012:CLA:CHC	2.22	0.64
23:B:1015:CLA:HBC2	23:B:1015:CLA:CHD	2.27	0.64
26:T:6046:BCR:C19	26:b:6047:BCR:H363	2.28	0.64
16:V:63:CYS:O	16:V:64:ALA:C	2.40	0.64
1:a:5094:TYR:OH	1:a:5099:ALA:HB2	1.98	0.64
1:a:5320:ILE:HG21	4:d:5333:ASP:OD2	1.98	0.64
2:b:5006:HIS:HB2	23:b:6019:CLA:CGA	2.28	0.64
2:b:5056:GLY:N	2:b:5326:PRO:HB3	2.13	0.64
2:b:5060:LEU:N	2:b:5061:PRO:HD2	2.13	0.64
2:b:5063:MET:SD	23:b:6013:CLA:HED1	2.38	0.64
2:b:5089:SER:OG	2:b:5091:GLU:HG2	1.98	0.64
23:b:6018:CLA:H151	23:b:6018:CLA:OBD	1.97	0.64
23:b:6021:CLA:HED2	23:b:6022:CLA:HMC2	1.80	0.64
29:b:6060:MGE:H2A2	29:d:6061:MGE:H2B1	1.80	0.64
3:c:5303:GLY:O	3:c:5423:ARG:HD2	1.97	0.64
3:c:5439:VAL:HG22	23:c:6032:CLA:CBC	2.27	0.64
4:d:5160:TYR:HB3	4:d:5161:PRO:HD3	1.78	0.64
11:l:5036:PHE:HE1	12:m:5008:PHE:N	1.93	0.64
14:t:5001:MET:C	14:t:5003:THR:H	2.05	0.64
15:u:5043:VAL:HG22	15:u:5121:LEU:HG	1.79	0.64
15:u:5071:LEU:HD11	15:u:5108:ASN:ND2	2.13	0.64
15:u:5080:VAL:CG1	15:u:5127:ARG:HD3	2.27	0.64
15:u:5113:THR:HG22	15:u:5114:VAL:N	2.13	0.64
1:A:24:THR:O	4:D:251:ARG:NH2	2.31	0.64
1:A:197:PHE:HE1	1:A:285:PHE:CD2	2.15	0.64
1:A:221:SER:HA	4:D:139:ARG:HB2	1.80	0.64
1:A:253:GLY:O	1:A:257:ARG:HD2	1.98	0.64
23:A:1003:CLA:HBC2	23:A:1003:CLA:CHD	2.20	0.64
23:A:1006:CLA:C16	26:D:1050:BCR:H291	2.28	0.64
2:B:399:VAL:HG13	2:B:417:VAL:HG22	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:473:ASP:OXT	14:T:27:PRO:HD2	1.96	0.64
4:D:55:VAL:O	4:D:65:SER:HB2	1.97	0.64
23:D:1005:CLA:H161	29:D:1062:MGE:CGB	2.28	0.64
12:M:18:PRO:HG2	12:M:19:SER:H	1.63	0.64
1:a:5076:ASN:HB3	1:a:5079:THR:HG23	1.80	0.64
1:a:5274:PHE:HA	1:a:5277:ALA:CB	2.27	0.64
1:a:5281:VAL:HG13	1:a:5282:GLY:N	2.12	0.64
2:b:5002:TRP:CG	2:b:5003:TYR:N	2.66	0.64
2:b:5312:ILE:HG12	2:b:5318:LYS:HG3	1.80	0.64
2:b:5461:PHE:HB3	4:d:5280:TRP:CH2	2.32	0.64
4:d:5160:TYR:HA	4:d:5290:ALA:HB2	1.80	0.64
23:d:6005:CLA:H43	25:d:6042:PQ9:H212	1.80	0.64
8:i:5034:ARG:HH11	8:i:5034:ARG:HG3	1.62	0.64
1:A:76:ASN:ND2	1:A:78:ILE:H	1.95	0.64
1:A:147:TYR:C	1:A:150:PRO:HG2	2.23	0.64
1:A:159:LEU:CG	1:A:163:ILE:HD11	2.28	0.64
23:B:1012:CLA:HHC	23:B:1012:CLA:CBB	2.24	0.64
16:V:90:PRO:HD2	16:V:92:ARG:NH2	2.12	0.64
17:X:33:THR:HG23	17:X:34:PHE:N	2.13	0.64
24:a:6039:PHO:H143	4:d:5173:PHE:CD1	2.32	0.64
2:b:5055:GLN:HA	2:b:5326:PRO:HB2	1.78	0.64
23:b:6016:CLA:H92	23:b:6017:CLA:H101	1.80	0.64
3:c:5171:GLY:C	3:c:5173:LEU:H	2.04	0.64
23:c:6028:CLA:HBC2	23:c:6028:CLA:CHD	2.28	0.64
23:c:6032:CLA:CGA	23:c:6032:CLA:H42	2.27	0.64
30:c:6055:DGD:HA72	30:c:6055:DGD:CBA	2.26	0.64
11:l:5021:LEU:HA	11:l:5024:ILE:HG22	1.78	0.64
12:m:5003:VAL:CG2	12:m:5004:ASN:N	2.61	0.64
18:y:5021:LEU:HD21	20:z:5025:VAL:HG13	1.79	0.64
20:z:5016:SER:HA	20:z:5019:MET:CB	2.27	0.64
20:z:5035:ARG:HH12	20:z:5039:LEU:CD2	2.11	0.64
2:B:6:TYR:N	2:B:6:TYR:CD2	2.65	0.63
2:B:159:THR:O	2:B:180:PRO:HB3	1.98	0.63
2:B:354:LEU:HD23	2:B:370:LEU:HB3	1.80	0.63
2:B:456:ALA:CA	30:H:1058:DGD:HBG2	2.27	0.63
23:B:1011:CLA:CAD	23:B:1013:CLA:C4	2.72	0.63
23:B:1012:CLA:H12	23:B:1013:CLA:H11	1.74	0.63
3:C:303:GLY:O	3:C:423:ARG:HD2	1.98	0.63
23:C:1025:CLA:H201	23:C:1031:CLA:C12	2.28	0.63
4:D:300:SER:O	4:D:303:ILE:HD11	1.98	0.63
7:H:3:ARG:HH22	11:L:1:MET:H1	1.45	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:U:93:ASN:O	15:U:94:ILE:C	2.42	0.63
20:Z:39:LEU:O	20:Z:42:LEU:HB3	1.99	0.63
1:a:5120:LEU:HD13	1:a:5155:PHE:CE1	2.32	0.63
1:a:5135:TYR:C	1:a:5137:LEU:H	2.06	0.63
1:a:5219:VAL:CG2	4:d:5268:HIS:ND1	2.59	0.63
2:b:5259:THR:C	2:b:5261:PRO:HD3	2.23	0.63
3:c:5058:GLY:O	3:c:5125:LEU:HD12	1.97	0.63
3:c:5466:VAL:CG2	4:d:5248:THR:HG22	2.27	0.63
23:c:6025:CLA:H201	23:c:6031:CLA:C12	2.28	0.63
10:k:5028:ILE:HG22	10:k:5029:PRO:CD	2.27	0.63
11:l:5024:ILE:HD11	12:m:5018:PRO:CB	2.28	0.63
1:A:219:VAL:HG21	4:D:268:HIS:HB3	1.76	0.63
1:A:278:TRP:CH2	30:C:1057:DGD:HAG1	2.32	0.63
2:B:68:ARG:HG3	2:B:69:LEU:N	2.12	0.63
2:B:183:PRO:HB3	2:B:200:ALA:CB	2.28	0.63
2:B:257:TRP:CH2	4:D:291:LEU:CD1	2.81	0.63
2:B:429:ILE:HD12	2:B:429:ILE:H	1.62	0.63
23:B:1020:CLA:HMA1	23:B:1020:CLA:HBA1	0.68	0.63
3:C:41:ARG:HG2	23:C:1035:CLA:HED2	1.79	0.63
3:C:59:LEU:O	3:C:62:PHE:HB3	1.99	0.63
3:C:161:LEU:HD11	23:C:1030:CLA:HBB1	1.80	0.63
3:C:439:VAL:HG13	23:C:1032:CLA:CBC	2.28	0.63
4:D:148:ALA:HB2	4:D:276:VAL:HA	1.81	0.63
13:O:133:THR:HG22	13:O:134:VAL:N	2.13	0.63
16:V:111:GLU:CG	16:V:112:GLN:H	2.11	0.63
1:a:5029:TYR:CE2	1:a:5132:GLU:HB3	2.33	0.63
1:a:5048:PHE:HD1	1:a:5049:VAL:N	1.95	0.63
1:a:5116:ILE:HG23	1:a:5117:PHE:CD2	2.34	0.63
2:b:5100:LEU:HD23	23:b:6014:CLA:C7	2.28	0.63
2:b:5274:SER:HB3	2:b:5276:TYR:HB2	1.80	0.63
6:f:5029:PRO:O	6:f:5032:PHE:HB3	1.99	0.63
11:l:5013:ASN:OD1	11:l:5016:SER:N	2.27	0.63
23:A:1006:CLA:HAA2	30:C:1057:DGD:HBN2	1.80	0.63
23:B:1011:CLA:H191	23:H:1017:CLA:H151	1.80	0.63
3:C:41:ARG:CG	23:C:1035:CLA:HED2	2.28	0.63
3:C:377:LEU:C	3:C:380:ILE:HG22	2.23	0.63
4:D:67:TYR:HE1	4:D:73:PHE:HA	1.63	0.63
4:D:91:LEU:HA	23:D:1008:CLA:HED3	1.80	0.63
4:D:311:PHE:C	4:D:311:PHE:CD1	2.76	0.63
10:K:18:PHE:C	10:K:20:PRO:HD2	2.24	0.63
11:L:22:LEU:HD21	29:L:1061:MGE:H263	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:O:65:ARG:NH1	13:O:108:GLN:HB2	2.13	0.63
13:O:76:PHE:C	13:O:77:LEU:HD12	2.23	0.63
1:a:5193:LEU:HD13	4:d:5179:PHE:HB3	1.80	0.63
1:a:5323:ARG:NH1	4:d:5332:GLN:HE21	1.96	0.63
2:b:5180:PRO:HG3	2:b:5196:VAL:CG1	2.29	0.63
2:b:5323:ARG:HE	2:b:5439:ILE:CG2	2.12	0.63
3:c:5058:GLY:CA	3:c:5125:LEU:CB	2.75	0.63
3:c:5274:TYR:N	3:c:5274:TYR:CD1	2.65	0.63
3:c:5324:LEU:HD21	15:u:5072:TYR:OH	1.98	0.63
23:c:6037:CLA:O1A	23:c:6037:CLA:C3A	2.47	0.63
4:d:5180:ARG:HD2	4:d:5181:PHE:N	2.12	0.63
12:m:5016:LEU:O	12:m:5020:VAL:HG12	1.96	0.63
13:o:5068:ARG:O	13:o:5267:ALA:HA	1.99	0.63
13:o:5250:ASP:HB3	13:o:5253:ALA:HB3	1.81	0.63
16:v:5067:HIS:CE1	16:v:5072:THR:CB	2.82	0.63
1:A:140:ARG:HB2	4:D:220:ASN:HA	1.80	0.63
1:A:153:SER:O	1:A:156:ALA:N	2.32	0.63
1:A:215:HIS:O	1:A:219:VAL:CG1	2.45	0.63
1:A:288:LEU:HD23	3:C:432:VAL:HG22	1.80	0.63
23:A:1006:CLA:HAB	24:A:1039:PHO:H142	1.78	0.63
2:B:66:MET:HG2	23:B:1013:CLA:CED	2.28	0.63
2:B:214:LEU:O	2:B:218:LEU:HG	1.97	0.63
2:B:288:VAL:HG21	2:B:302:TRP:CE2	2.34	0.63
26:B:1048:BCR:C8	26:B:1048:BCR:C33	2.73	0.63
4:D:54:PHE:HB3	5:E:47:PHE:CD1	2.32	0.63
4:D:209:LEU:O	4:D:213:ILE:HG22	1.98	0.63
4:D:261:PHE:CD2	4:D:267:LEU:HB2	2.32	0.63
12:M:3:VAL:HG11	14:T:2:GLU:OE1	1.97	0.63
1:a:5079:THR:OG1	1:a:5080:GLY:N	2.30	0.63
23:b:6010:CLA:HBB1	23:b:6010:CLA:CMB	2.29	0.63
23:b:6010:CLA:H71	7:h:5046:LEU:HD22	1.80	0.63
3:c:5346:THR:HG22	3:c:5346:THR:O	1.97	0.63
23:c:6034:CLA:C9	23:c:6034:CLA:C13	2.76	0.63
4:d:5256:ILE:CG2	4:d:5257:PHE:N	2.61	0.63
23:d:6005:CLA:H161	29:d:6062:MGE:CGB	2.28	0.63
10:k:5024:VAL:O	10:k:5027:VAL:HG12	1.97	0.63
26:k:6051:BCR:H331	26:k:6051:BCR:C9	2.24	0.63
13:o:5156:GLN:OE1	13:o:5157:PRO:HD2	1.98	0.63
1:A:278:TRP:O	1:A:281:VAL:HG12	1.98	0.63
2:B:159:THR:CG2	2:B:161:LEU:HD22	2.28	0.63
2:B:346:PHE:HD2	2:B:346:PHE:N	1.96	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1016:CLA:H92	23:H:1017:CLA:H101	1.80	0.63
23:C:1031:CLA:O2D	23:C:1031:CLA:CAA	2.30	0.63
4:D:53:THR:HG22	4:D:67:TYR:CE2	2.33	0.63
7:H:3:ARG:HH22	11:L:1:MET:N	1.96	0.63
8:I:3:THR:O	8:I:7:THR:HG23	1.99	0.63
13:O:215:ARG:HG2	13:O:215:ARG:NH1	2.13	0.63
1:a:5271:LEU:HD13	1:a:5272:HIS:ND1	2.12	0.63
23:b:6021:CLA:H62	29:b:6060:MGE:CDB	2.12	0.63
23:b:6022:CLA:HBB1	23:b:6022:CLA:HMB3	1.80	0.63
3:c:5095:LEU:HD22	3:c:5095:LEU:H	1.61	0.63
4:d:5148:ALA:HB1	4:d:5279:LEU:HD12	1.81	0.63
4:d:5218:VAL:O	4:d:5221:THR:HG22	1.97	0.63
26:t:1046:BCR:C38	26:t:1046:BCR:H373	2.23	0.63
16:v:5095:ILE:HD13	16:v:5139:VAL:O	1.98	0.63
1:A:86:SER:O	1:A:87:ASN:C	2.41	0.63
1:A:147:TYR:HA	1:A:150:PRO:CG	2.28	0.63
1:A:316:THR:O	1:A:319:ASP:HB2	1.99	0.63
2:B:144:PHE:CE1	2:B:210:ILE:HG23	2.34	0.63
23:B:1018:CLA:OBD	23:B:1018:CLA:H151	1.97	0.63
26:B:1047:BCR:H363	26:t:1046:BCR:C20	2.27	0.63
4:D:221:THR:HG23	4:D:244:TYR:HB3	1.80	0.63
26:T:6046:BCR:C20	26:b:6047:BCR:C36	2.77	0.63
16:V:85:LEU:HB3	16:V:92:ARG:C	2.23	0.63
16:V:122:ARG:O	16:V:123:SER:C	2.41	0.63
18:Y:21:GLN:C	18:Y:23:THR:N	2.56	0.63
1:a:5273:PHE:CE2	4:d:5222:LEU:HD21	2.34	0.63
2:b:5002:TRP:CG	2:b:5003:TYR:H	2.16	0.63
3:c:5041:ARG:HG2	23:c:6035:CLA:HED2	1.80	0.63
3:c:5159:THR:CG2	3:c:5252:ILE:HA	2.27	0.63
3:c:5220:GLY:O	3:c:5221:GLU:HG2	1.98	0.63
3:c:5461:ARG:HG3	3:c:5461:ARG:O	1.99	0.63
5:e:5005:THR:O	5:e:5007:GLU:HG2	1.99	0.63
15:u:5057:LEU:C	15:u:5058:ASN:HD22	2.06	0.63
1:A:193:LEU:HD22	4:D:179:PHE:CG	2.33	0.63
1:A:196:PRO:HA	1:A:199:GLN:HG2	1.80	0.63
2:B:148:LEU:CB	2:B:210:ILE:HD11	2.28	0.63
2:B:465:GLY:CA	23:B:1019:CLA:HBC2	2.29	0.63
23:B:1014:CLA:C11	23:B:1014:CLA:H162	2.27	0.63
23:C:1033:CLA:H93	23:C:1033:CLA:C5	2.26	0.63
16:V:124:ALA:C	16:V:126:ILE:H	2.05	0.63
2:b:5361:GLU:HG3	4:d:5296:TYR:HD2	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6012:CLA:HED3	23:b:6013:CLA:H11	1.80	0.63
3:c:5082:TYR:CD2	3:c:5302:TYR:O	2.51	0.63
23:c:6025:CLA:H202	23:c:6025:CLA:C15	2.27	0.63
23:c:6029:CLA:H202	23:c:6030:CLA:C17	2.29	0.63
4:d:5077:ALA:HB2	4:d:5174:GLY:HA3	1.80	0.63
4:d:5111:TRP:CD1	4:d:5173:PHE:HE2	2.16	0.63
4:d:5302:GLU:CG	13:o:5199:ALA:HB1	2.28	0.63
7:h:5019:GLY:O	7:h:5021:VAL:HG23	1.98	0.63
13:o:5169:LYS:HA	13:o:5224:SER:HA	1.81	0.63
14:t:5001:MET:O	14:t:5003:THR:N	2.26	0.63
1:A:214:MET:HE1	24:A:1039:PHO:O1D	1.99	0.63
2:B:417:VAL:HG12	2:B:418:LYS:H	1.62	0.63
3:C:135:ARG:HB2	20:Z:27:TYR:CD1	2.34	0.63
23:C:1032:CLA:CGA	23:C:1032:CLA:H42	2.27	0.63
4:D:83:ASN:H	4:D:168:PHE:HD1	1.46	0.63
4:D:150:ILE:O	4:D:154:VAL:HG23	1.98	0.63
26:D:1050:BCR:H372	29:J:1059:MGE:H6A1	1.80	0.63
6:F:41:GLN:OE1	9:J:28:PHE:HA	1.99	0.63
23:H:1017:CLA:CBB	26:H:1049:BCR:C32	2.71	0.63
10:K:35:LEU:C	10:K:37:PHE:H	2.06	0.63
13:O:228:ALA:O	13:O:229:LYS:HG3	1.99	0.63
20:Z:9:LEU:HD13	20:Z:10:ALA:H	1.62	0.63
1:a:5128:GLY:O	1:a:5130:GLN:N	2.31	0.63
1:a:5241:GLN:HB2	1:a:5243:GLU:OE1	1.97	0.63
1:a:5324:ALA:HA	4:d:5325:ILE:HG23	1.81	0.63
2:b:5196:VAL:O	2:b:5200:ILE:HG13	1.97	0.63
2:b:5352:PHE:C	2:b:5367:LEU:HD23	2.24	0.63
2:b:5457:LEU:HD23	4:d:5280:TRP:CH2	2.33	0.63
3:c:5062:PHE:HB2	3:c:5122:SER:OG	1.99	0.63
3:c:5457:LYS:HE2	4:d:5229:ALA:CA	2.29	0.63
30:c:6055:DGD:O1B	30:c:6055:DGD:C4B	2.47	0.63
23:d:6005:CLA:H52	24:d:6038:PHO:C2B	2.29	0.63
26:k:6052:BCR:C38	26:k:6052:BCR:C23	2.59	0.63
1:A:219:VAL:CG2	4:D:268:HIS:CB	2.76	0.63
1:A:245:THR:HG22	4:D:264:LYS:HD2	1.81	0.63
1:A:304:HIS:O	1:A:305:SER:C	2.41	0.63
24:A:1038:PHO:C2B	23:D:1005:CLA:H52	2.29	0.63
23:C:1025:CLA:H203	23:C:1031:CLA:H121	1.78	0.63
30:C:1055:DGD:HB72	30:C:1055:DGD:HB32	1.79	0.63
4:D:101:PHE:O	4:D:105:CYS:HB2	1.98	0.63
4:D:103:ARG:O	4:D:106:GLN:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:218:VAL:O	4:D:221:THR:HG22	1.99	0.63
4:D:235:PHE:HZ	4:D:242:GLU:C	2.07	0.63
11:L:22:LEU:HD23	11:L:23:LEU:N	2.14	0.63
15:U:113:THR:HG22	15:U:114:VAL:N	2.14	0.63
20:Z:30:PRO:O	20:Z:32:ASP:N	2.31	0.63
1:a:5058:VAL:N	1:a:5068:SER:HB2	2.14	0.63
1:a:5138:GLY:HA2	3:c:5455:PHE:CE1	2.33	0.63
2:b:5006:HIS:CD2	23:b:6020:CLA:HBB2	2.34	0.63
2:b:5086:GLY:C	2:b:5088:TRP:H	2.06	0.63
2:b:5132:LEU:HB2	2:b:5133:PRO:CD	2.28	0.63
2:b:5382:ARG:O	2:b:5383:ALA:HB2	1.98	0.63
3:c:5158:THR:O	3:c:5161:LEU:HB3	1.99	0.63
30:c:6057:DGD:HA62	30:c:6057:DGD:CAA	2.29	0.63
13:o:5065:ARG:CZ	13:o:5066:ILE:H	2.11	0.63
1:A:37:MET:HB2	1:A:125:CYS:HB3	1.81	0.62
1:A:293:MET:C	1:A:295:PHE:H	2.04	0.62
27:A:1063:LHG:H351	3:C:436:PHE:CE1	2.34	0.62
23:B:1013:CLA:H102	23:B:1018:CLA:H42	1.81	0.62
3:C:429:SER:HA	30:C:1056:DGD:HA91	1.81	0.62
23:C:1028:CLA:HHC	23:C:1028:CLA:CBB	2.27	0.62
23:C:1034:CLA:H92	23:C:1034:CLA:C13	2.29	0.62
30:C:1057:DGD:CAA	30:C:1057:DGD:HA62	2.29	0.62
4:D:68:LEU:HA	6:F:40:MET:CG	2.29	0.62
4:D:209:LEU:CD2	25:D:1042:PQ9:H192	2.23	0.62
5:E:35:TRP:CZ3	6:F:38:ALA:HB1	2.33	0.62
16:V:64:ALA:O	16:V:65:SER:C	2.42	0.62
1:a:5130:GLN:HE21	4:d:5256:ILE:CD1	2.11	0.62
1:a:5133:LEU:HB3	4:d:5252:PHE:CD2	2.33	0.62
1:a:5328:MET:SD	4:d:5325:ILE:HD11	2.39	0.62
2:b:5008:VAL:HG21	11:l:5007:ARG:NH1	2.13	0.62
2:b:5138:ILE:HD12	2:b:5139:HIS:H	1.63	0.62
23:b:6017:CLA:H3A	23:b:6017:CLA:CGA	2.23	0.62
3:c:5039:ASN:O	3:c:5040:ALA:CB	2.47	0.62
3:c:5236:GLY:C	3:c:5238:ILE:N	2.57	0.62
3:c:5323:LYS:C	3:c:5325:GLY:H	2.05	0.62
3:c:5407:VAL:HG22	30:c:6057:DGD:HE1	1.79	0.62
23:c:6035:CLA:C14	10:k:5032:PHE:CE1	2.79	0.62
4:d:5021:TRP:HH2	4:d:5026:ARG:HE	1.45	0.62
4:d:5090:LEU:HD13	4:d:5109:GLY:CA	2.16	0.62
4:d:5235:PHE:CD1	4:d:5240:ALA:HB3	2.34	0.62
26:d:6050:BCR:H372	29:d:6059:MGE:H6A1	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:5060:GLN:HG2	5:e:5062:SER:H	1.64	0.62
6:f:5026:LEU:HD13	6:f:5026:LEU:H	1.63	0.62
7:h:5012:ARG:CD	7:h:5016:SER:HB2	2.29	0.62
8:i:5014:PHE:HA	8:i:5017:LEU:HD12	1.80	0.62
10:k:5018:PHE:CZ	20:z:5009:LEU:HD11	2.34	0.62
11:l:5012:LEU:C	11:l:5012:LEU:HD13	2.24	0.62
11:l:5017:LEU:CD1	11:l:5018:TYR:CD1	2.81	0.62
18:y:5001:ILE:HG23	18:y:5002:ALA:N	2.13	0.62
1:A:159:LEU:HD23	30:C:1055:DGD:HBW1	1.81	0.62
2:B:133:LEU:HB3	2:B:138:MET:HE2	1.81	0.62
2:B:364:GLU:HG3	4:D:296:TYR:HD2	1.64	0.62
23:B:1021:CLA:HMA3	23:B:1021:CLA:H42	1.80	0.62
3:C:203:THR:HG22	3:C:231:GLU:O	1.99	0.62
3:C:207:ARG:HG3	3:C:208:VAL:N	2.13	0.62
23:C:1027:CLA:H172	26:Z:1053:BCR:H10C	1.79	0.62
11:L:30:LEU:HD23	11:L:31:PHE:N	2.13	0.62
13:O:218:LEU:C	13:O:218:LEU:HD23	2.23	0.62
1:a:5241:GLN:HB2	1:a:5243:GLU:CD	2.24	0.62
2:b:5283:ARG:HG2	2:b:5283:ARG:HH11	1.64	0.62
23:b:6011:CLA:H191	23:b:6017:CLA:H151	1.80	0.62
3:c:5140:LEU:CB	3:c:5148:GLY:HA2	2.30	0.62
4:d:5104:TRP:CH2	4:d:5110:LEU:HD23	2.34	0.62
4:d:5145:ALA:HB2	4:d:5272:LEU:HD11	1.80	0.62
4:d:5261:PHE:CD1	25:d:6042:PQ9:H12	2.32	0.62
10:k:5019:ASP:HA	10:k:5022:VAL:CG1	2.28	0.62
16:v:5133:LEU:H	16:v:5133:LEU:HD12	1.62	0.62
1:A:90:GLY:C	1:A:92:HIS:N	2.53	0.62
2:B:63:LEU:N	2:B:64:PRO:HD2	2.14	0.62
3:C:50:LEU:HD22	3:C:132:HIS:CD2	2.34	0.62
3:C:53:HIS:HB2	23:C:1036:CLA:HMD2	1.81	0.62
3:C:95:LEU:H	3:C:95:LEU:CD2	2.12	0.62
3:C:207:ARG:O	3:C:211:GLY:N	2.31	0.62
3:C:461:ARG:NH2	4:D:223:PHE:CD2	2.68	0.62
13:O:167:ASP:OD2	13:O:167:ASP:N	2.30	0.62
15:U:69:ARG:HH11	15:U:69:ARG:HG3	1.64	0.62
20:Z:5:PHE:O	20:Z:8:ALA:N	2.27	0.62
2:b:5320:GLY:CA	2:b:5323:ARG:HH11	2.10	0.62
23:b:6015:CLA:HBC2	23:b:6015:CLA:CHD	2.27	0.62
3:c:5048:LYS:HB2	3:c:5048:LYS:NZ	2.14	0.62
3:c:5256:PRO:CB	3:c:5261:ARG:NH2	2.60	0.62
3:c:5428:THR:HG23	3:c:5429:SER:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:d:6062:MGE:H241	14:t:5013:ILE:CG2	2.25	0.62
5:e:5075:GLN:O	5:e:5079:PHE:HD1	1.82	0.62
11:l:5030:LEU:HD23	11:l:5030:LEU:C	2.25	0.62
13:o:5109:GLY:HA3	13:o:5123:GLU:CA	2.29	0.62
16:v:5098:LEU:HD12	16:v:5098:LEU:H	1.65	0.62
1:A:142:TRP:H	4:D:220:ASN:ND2	1.95	0.62
1:A:206:PHE:CD1	24:A:1039:PHO:HBB2	2.33	0.62
1:A:223:LEU:HD13	1:A:224:ILE:HG12	1.80	0.62
27:A:1063:LHG:C6	27:A:1063:LHG:P	2.88	0.62
2:B:58:GLN:O	2:B:58:GLN:HG3	2.00	0.62
2:B:144:PHE:CE1	2:B:210:ILE:HD12	2.34	0.62
2:B:346:PHE:N	2:B:346:PHE:CD2	2.67	0.62
2:B:368:VAL:HG11	2:B:381:ILE:CD1	2.25	0.62
2:B:405:GLU:HG2	13:o:5085:LYS:HD2	1.82	0.62
23:B:1021:CLA:HED2	23:B:1022:CLA:HMC2	1.80	0.62
3:C:29:GLU:HG3	10:K:45:PHE:O	1.99	0.62
3:C:377:LEU:HA	3:C:380:ILE:HG22	1.80	0.62
3:C:461:ARG:HG3	3:C:461:ARG:O	1.98	0.62
5:E:10:PHE:C	5:E:12:ASP:H	2.07	0.62
5:E:53:ASP:C	5:E:53:ASP:OD2	2.43	0.62
9:J:17:ALA:O	9:J:20:GLY:N	2.33	0.62
10:K:19:ASP:N	10:K:20:PRO:CD	2.63	0.62
13:O:188:ARG:HD3	13:O:197:ALA:N	2.12	0.62
20:Z:37:LYS:HZ3	20:Z:38:GLN:HG2	1.64	0.62
1:a:5099:ALA:C	1:a:5101:SER:H	2.07	0.62
23:b:6020:CLA:HMA1	23:b:6020:CLA:HBA1	0.68	0.62
23:b:6020:CLA:H142	23:b:6021:CLA:HAB	1.82	0.62
3:c:5078:GLU:HA	3:c:5078:GLU:OE2	1.97	0.62
3:c:5198:VAL:O	3:c:5200:THR:HG23	2.00	0.62
4:d:5195:PRO:HB3	11:l:5030:LEU:HD21	1.81	0.62
4:d:5346:LEU:CD2	16:v:5161:VAL:HG13	2.29	0.62
5:e:5040:THR:HG21	19:n:5003:UNK:CB	2.30	0.62
13:o:5120:THR:HA	13:o:5153:ALA:O	1.99	0.62
1:A:52:PHE:CD2	1:A:52:PHE:O	2.53	0.62
1:A:300:PHE:HB3	1:A:302:PHE:CE1	2.35	0.62
2:B:6:TYR:N	2:B:6:TYR:HD2	1.97	0.62
2:B:6:TYR:OH	11:L:11:GLU:HG3	1.99	0.62
2:B:45:PHE:HB2	2:B:60:MET:SD	2.39	0.62
3:C:264:PHE:CZ	26:C:1054:BCR:C31	2.81	0.62
23:C:1029:CLA:H202	23:C:1030:CLA:C17	2.29	0.62
30:C:1055:DGD:HA72	30:C:1055:DGD:CBA	2.26	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:C:1055:DGD:O1B	30:C:1055:DGD:C4B	2.47	0.62
4:D:147:SER:C	4:D:280:TRP:HE1	2.08	0.62
4:D:218:VAL:HG12	4:D:219:GLU:N	2.13	0.62
29:D:1062:MGE:H212	14:T:17:PHE:HZ	1.64	0.62
5:E:34:GLY:CA	6:F:32:PHE:CE2	2.81	0.62
16:V:72:THR:HG22	16:V:75:ASN:H	1.65	0.62
2:b:5041:THR:HG22	2:b:5041:THR:O	1.98	0.62
2:b:5352:PHE:O	2:b:5367:LEU:HD23	2.00	0.62
2:b:5420:LYS:O	2:b:5426:ILE:HG13	1.99	0.62
2:b:5457:LEU:CB	30:h:6058:DGD:HAG1	2.29	0.62
7:h:5012:ARG:NH1	7:h:5012:ARG:HB3	2.13	0.62
10:k:5032:PHE:CZ	26:k:6052:BCR:C19	2.82	0.62
13:o:5132:VAL:HG23	13:o:5144:LEU:CD2	2.28	0.62
16:v:5114:ILE:HG23	16:v:5114:ILE:O	1.98	0.62
18:y:5021:LEU:CD2	20:z:5025:VAL:HG13	2.29	0.62
2:B:110:ALA:CB	23:B:1024:CLA:HMB2	2.29	0.62
23:B:1009:CLA:H2A	23:B:1009:CLA:CED	2.23	0.62
3:C:40:ALA:HA	23:C:1033:CLA:CMC	2.30	0.62
4:D:48:TRP:CE3	4:D:49:LEU:HG	2.29	0.62
4:D:103:ARG:HH22	5:E:80:LEU:HD12	1.65	0.62
9:J:15:THR:O	9:J:19:MET:HG2	1.99	0.62
12:M:9:ILE:HG12	12:m:5008:PHE:CZ	2.33	0.62
14:T:18:PHE:O	14:T:22:PHE:HD2	1.82	0.62
1:a:5097:TRP:CA	8:i:5001:MET:HE2	2.24	0.62
1:a:5304:HIS:ND1	3:c:5414:ILE:HG13	2.14	0.62
23:a:6006:CLA:HAA2	30:c:6057:DGD:HBN2	1.81	0.62
2:b:5065:ARG:HA	2:b:5164:TRP:CB	2.30	0.62
2:b:5438:GLY:O	2:b:5439:ILE:HG12	1.99	0.62
23:b:6019:CLA:CMB	23:b:6020:CLA:NC	2.62	0.62
3:c:5131:TYR:HA	20:z:5027:TYR:HE1	1.64	0.62
16:v:5105:PRO:O	16:v:5114:ILE:N	2.31	0.62
16:v:5123:SER:O	16:v:5124:ALA:C	2.43	0.62
16:v:5158:GLY:HA3	16:v:5162:TYR:HE2	1.64	0.62
20:z:5012:LEU:HD23	20:z:5015:LEU:HD23	1.80	0.62
1:A:136:ARG:O	1:A:137:LEU:HD23	1.99	0.62
1:A:183:MET:HB3	23:A:1003:CLA:HBC3	1.82	0.62
23:B:1013:CLA:HMA3	23:B:1014:CLA:CMA	2.30	0.62
23:B:1022:CLA:H8	23:B:1022:CLA:C13	1.81	0.62
23:B:1022:CLA:HBB1	23:B:1022:CLA:HMB3	1.80	0.62
23:B:1023:CLA:CGD	23:B:1023:CLA:CAA	2.65	0.62
3:C:120:ILE:HG13	26:Z:1053:BCR:H343	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:284:PHE:C	3:C:286:ALA:N	2.57	0.62
3:C:348:GLU:OE2	3:C:359:TRP:HZ3	1.82	0.62
3:C:357:ARG:HH11	3:C:357:ARG:CB	2.12	0.62
4:D:277:THR:CG2	4:D:278:GLY:N	2.63	0.62
8:I:27:ASP:C	8:I:29:ALA:H	2.07	0.62
12:M:8:PHE:O	12:M:11:THR:N	2.32	0.62
18:Y:21:GLN:C	18:Y:23:THR:H	2.06	0.62
1:a:5033:PHE:CE2	1:a:5128:GLY:HA3	2.35	0.62
1:a:5228:THR:O	1:a:5230:THR:N	2.33	0.62
1:a:5304:HIS:O	1:a:5305:SER:C	2.43	0.62
1:a:5310:LYS:O	16:v:5151:ILE:HD12	2.00	0.62
2:b:5088:TRP:HB3	23:b:6014:CLA:HED2	1.80	0.62
2:b:5119:LEU:HG	7:h:5011:LEU:HD23	1.82	0.62
2:b:5278:GLN:HA	2:b:5281:ILE:HG12	1.80	0.62
23:b:6013:CLA:H102	23:b:6018:CLA:H42	1.81	0.62
23:b:6017:CLA:H191	7:h:5039:LEU:HD11	1.81	0.62
23:b:6021:CLA:H42	23:b:6021:CLA:HMA3	1.80	0.62
3:c:5349:ILE:HG22	3:c:5375:LEU:HB2	1.81	0.62
3:c:5437:PHE:CE2	23:c:6032:CLA:HBB2	2.34	0.62
4:d:5021:TRP:CD1	17:x:5040:ILE:HG22	2.35	0.62
4:d:5253:TRP:CA	4:d:5256:ILE:HG22	2.12	0.62
8:i:5031:ASN:HB2	8:i:5032:PRO:CD	2.28	0.62
13:o:5099:ARG:HG2	13:o:5099:ARG:NH1	2.14	0.62
1:A:135:TYR:CD1	3:C:449:ARG:HG3	2.34	0.62
2:B:319:PRO:HG3	2:B:446:SER:HB3	1.82	0.62
23:B:1015:CLA:C18	29:B:1060:MGE:H8A1	2.26	0.62
3:C:56:HIS:C	3:C:56:HIS:ND1	2.58	0.62
23:C:1037:CLA:O1A	23:C:1037:CLA:C3A	2.47	0.62
11:L:36:PHE:HD2	14:T:6:TYR:HH	1.46	0.62
23:a:6003:CLA:H162	24:d:6038:PHO:H93	1.77	0.62
2:b:5121:ARG:HA	2:b:5128:PRO:HA	1.80	0.62
3:c:5449:ARG:CZ	23:c:6029:CLA:HED2	2.29	0.62
11:l:5025:LEU:HD11	14:t:5012:CYS:CB	2.30	0.62
13:o:5208:LEU:H	13:o:5208:LEU:CD1	2.13	0.62
1:A:272:HIS:HB2	4:D:218:VAL:HG11	1.82	0.62
23:A:1003:CLA:C3D	23:D:1005:CLA:CBC	2.78	0.62
23:A:1006:CLA:H141	23:D:1004:CLA:H192	1.81	0.62
2:B:125:ASP:OD2	2:B:128:THR:HG22	2.00	0.62
23:B:1010:CLA:HBB1	23:B:1010:CLA:CMB	2.29	0.62
23:B:1021:CLA:C19	29:B:1060:MGE:CDA	2.78	0.62
4:D:201:VAL:HG21	23:D:1005:CLA:OBD	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:218:VAL:HG22	4:D:244:TYR:CD1	2.34	0.62
23:H:1017:CLA:H192	23:H:1017:CLA:H151	1.80	0.62
13:O:100:GLU:HG2	13:O:100:GLU:O	2.00	0.62
26:T:6046:BCR:C12	26:b:6047:BCR:C38	2.75	0.62
16:V:61:TYR:CD1	16:V:61:TYR:C	2.78	0.62
1:a:5273:PHE:HZ	4:d:5222:LEU:HD23	1.64	0.62
27:a:6063:LHG:C6	27:a:6063:LHG:P	2.88	0.62
2:b:5220:GLN:O	2:b:5223:TYR:N	2.33	0.62
2:b:5394:VAL:HG22	2:b:5414:VAL:CG1	2.30	0.62
23:b:6021:CLA:C17	29:b:6060:MGE:CDA	2.56	0.62
4:d:5103:ARG:HD3	5:e:5073:LYS:HD2	1.81	0.62
4:d:5186:GLN:O	4:d:5322:ASN:ND2	2.33	0.62
7:h:5044:ILE:O	7:h:5048:ILE:HG13	1.98	0.62
10:k:5040:GLN:HB3	10:k:5045:PHE:CD1	2.35	0.62
13:o:5031:LEU:H	13:o:5031:LEU:CD2	2.13	0.62
1:A:219:VAL:CG2	4:D:268:HIS:CG	2.80	0.62
23:A:1006:CLA:HBB1	23:A:1006:CLA:CHC	2.29	0.62
2:B:323:GLY:C	4:D:293:LEU:HD22	2.24	0.62
2:B:380:ASP:OD2	4:D:345:VAL:CG2	2.46	0.62
23:B:1011:CLA:H193	23:B:1016:CLA:HAC1	1.82	0.62
3:C:85:GLY:N	30:C:1056:DGD:HE4	2.15	0.62
4:D:299:ILE:O	4:D:301:GLN:N	2.33	0.62
7:H:41:PHE:CE2	7:H:45:ILE:HD11	2.35	0.62
7:H:48:ILE:HG12	7:H:53:LEU:HD23	1.81	0.62
10:K:18:PHE:CE2	20:Z:9:LEU:HD11	2.35	0.62
15:U:55:ILE:HG21	15:U:65:PHE:HE2	1.65	0.62
16:V:120:SER:H	16:V:123:SER:CB	2.11	0.62
1:a:5193:LEU:HD22	4:d:5179:PHE:CD2	2.35	0.62
2:b:5028:ALA:HB3	2:b:5100:LEU:HD12	1.82	0.62
4:d:5092:LEU:HB3	4:d:5093:TRP:CE3	2.34	0.62
4:d:5110:LEU:O	4:d:5114:ILE:N	2.28	0.62
4:d:5155:SER:HA	4:d:5159:ILE:CD1	2.29	0.62
4:d:5205:LEU:HD13	24:d:6038:PHO:HAB	1.81	0.62
4:d:5209:LEU:HD23	4:d:5209:LEU:C	2.25	0.62
15:u:5069:ARG:C	15:u:5071:LEU:HD12	2.24	0.62
1:A:58:VAL:O	1:A:67:VAL:N	2.33	0.61
1:A:113:GLN:O	1:A:114:LEU:C	2.40	0.61
1:A:157:VAL:HG13	1:A:157:VAL:O	2.00	0.61
23:A:1006:CLA:C12	30:C:1057:DGD:CIB	2.78	0.61
2:B:71:VAL:HG13	2:B:71:VAL:O	1.99	0.61
2:B:99:ALA:CB	23:B:1014:CLA:H2	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:336:ILE:HG22	2:B:336:ILE:O	1.99	0.61
2:B:457:VAL:CG2	4:D:284:ILE:HG23	2.30	0.61
3:C:230:LEU:O	3:C:234:VAL:HG23	2.00	0.61
3:C:269:GLU:O	3:C:272:LEU:HB3	2.00	0.61
3:C:297:TYR:HA	3:C:302:TYR:CE2	2.35	0.61
5:E:34:GLY:O	5:E:37:PHE:N	2.33	0.61
15:U:88:VAL:O	15:U:91:VAL:HG23	2.00	0.61
23:a:6003:CLA:C3D	23:d:6005:CLA:CBC	2.78	0.61
2:b:5003:TYR:CE2	11:l:5011:GLU:HG3	2.35	0.61
2:b:5226:LEU:HD23	2:b:5228:MET:N	2.13	0.61
23:b:6021:CLA:C18	29:b:6060:MGE:H132	2.29	0.61
3:c:5197:ARG:HG2	3:c:5198:VAL:N	2.15	0.61
3:c:5382:ASN:C	3:c:5384:ILE:H	2.08	0.61
23:c:6032:CLA:H171	23:c:6034:CLA:H191	1.81	0.61
4:d:5202:ALA:HA	23:d:6005:CLA:O1A	1.99	0.61
4:d:5206:GLY:CA	23:d:6005:CLA:H2	2.29	0.61
23:d:6005:CLA:O2A	23:d:6005:CLA:C5	2.42	0.61
6:f:5032:PHE:HD2	6:f:5032:PHE:O	1.83	0.61
1:A:89:ILE:HD11	1:A:108:ASN:HB3	1.82	0.61
1:A:164:GLY:HA3	1:A:294:ALA:O	2.00	0.61
1:A:278:TRP:HH2	30:C:1057:DGD:HAG3	1.65	0.61
2:B:222:PRO:HA	7:H:22:ALA:HB3	1.82	0.61
2:B:457:VAL:O	2:B:461:LEU:HG	2.00	0.61
3:C:82:TYR:CD2	3:C:302:TYR:O	2.53	0.61
3:C:126:GLY:HA2	26:K:1052:BCR:H363	1.80	0.61
23:C:1036:CLA:H193	26:Z:1053:BCR:H372	1.82	0.61
13:O:265:PHE:CD1	13:O:266:TYR:N	2.68	0.61
1:a:5172:MET:CE	1:a:5179:THR:HG23	2.30	0.61
1:a:5341:LEU:CD1	3:c:5396:MET:HE3	2.30	0.61
2:b:5153:PHE:N	2:b:5153:PHE:HD2	1.98	0.61
23:b:6011:CLA:C19	23:b:6017:CLA:H121	2.24	0.61
23:b:6017:CLA:CBB	26:h:6049:BCR:H323	2.26	0.61
26:b:6047:BCR:H321	26:b:6047:BCR:H342	1.69	0.61
3:c:5116:VAL:HG23	26:k:6052:BCR:HC41	1.80	0.61
4:d:5256:ILE:CG2	4:d:5257:PHE:H	2.12	0.61
13:o:5234:THR:HG21	13:o:5236:GLU:OE1	2.01	0.61
1:A:65:GLU:HG3	1:A:65:GLU:O	1.99	0.61
1:A:223:LEU:CD2	4:D:265:ARG:HD3	2.29	0.61
1:A:326:LEU:HD21	3:C:412:THR:HB	1.82	0.61
2:B:91:TRP:HB3	23:B:1014:CLA:CED	2.31	0.61
2:B:193:TYR:HA	2:B:261:ALA:HB2	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:223:GLN:HG2	7:H:24:GLY:C	2.25	0.61
2:B:288:VAL:HG22	2:B:301:ALA:HB1	1.81	0.61
3:C:45:LEU:CD1	3:C:139:THR:HG23	2.31	0.61
3:C:311:GLN:HE22	3:C:351:PHE:HD2	1.47	0.61
4:D:17:ILE:HG21	17:X:42:GLN:HB2	1.81	0.61
4:D:161:PRO:HG3	4:D:170:ALA:HB2	1.82	0.61
23:D:1005:CLA:CED	25:D:1042:PQ9:H412	2.30	0.61
10:K:35:LEU:HD12	10:K:38:VAL:HG21	1.82	0.61
13:O:65:ARG:NH1	13:O:66:ILE:H	1.97	0.61
1:a:5195:HIS:ND1	1:a:5196:PRO:HD2	2.14	0.61
2:b:5010:ILE:HD12	2:b:5011:ASN:OD1	2.01	0.61
23:b:6012:CLA:HBC3	23:b:6012:CLA:CHD	2.26	0.61
23:b:6015:CLA:C18	29:b:6060:MGE:C8A	2.74	0.61
23:b:6021:CLA:HBB1	23:b:6021:CLA:HMB1	1.82	0.61
26:b:6048:BCR:C8	26:b:6048:BCR:C33	2.73	0.61
3:c:5233:VAL:HG13	3:c:5234:VAL:H	1.66	0.61
23:c:6035:CLA:C10	26:k:6052:BCR:C40	2.75	0.61
4:d:5336:HIS:H	4:d:5336:HIS:CD2	2.17	0.61
23:d:6005:CLA:C17	29:d:6062:MGE:H261	2.30	0.61
5:e:5022:ILE:HD12	5:e:5025:ILE:HD12	1.82	0.61
10:k:5039:VAL:CG2	18:y:5018:ILE:HD12	2.22	0.61
1:A:95:PRO:CA	23:A:1007:CLA:CED	2.71	0.61
1:A:223:LEU:HD23	4:D:265:ARG:HH11	1.65	0.61
27:A:1063:LHG:H271	23:C:1032:CLA:C8	2.28	0.61
23:B:1016:CLA:CMD	23:B:1018:CLA:HAB	2.30	0.61
3:C:253:LEU:HD23	3:C:253:LEU:O	2.01	0.61
4:D:83:ASN:HA	4:D:166:SER:CB	2.30	0.61
4:D:108:GLY:O	4:D:110:LEU:N	2.33	0.61
23:D:1005:CLA:C17	29:D:1062:MGE:H261	2.30	0.61
11:L:15:THR:O	11:L:15:THR:HG22	2.01	0.61
14:T:12:CYS:O	14:T:15:ALA:N	2.33	0.61
17:X:24:LEU:C	17:X:24:LEU:HD12	2.25	0.61
1:a:5038:ILE:HG21	26:a:6044:BCR:H333	1.82	0.61
1:a:5139:MET:HE2	4:d:5220:ASN:O	1.98	0.61
2:b:5002:TRP:CD2	2:b:5003:TYR:N	2.68	0.61
2:b:5011:ASN:O	2:b:5013:PRO:HD3	2.00	0.61
2:b:5118:GLU:C	2:b:5120:PHE:H	2.09	0.61
2:b:5265:PHE:N	2:b:5265:PHE:CD2	2.67	0.61
23:b:6016:CLA:H51	23:b:6017:CLA:C10	2.29	0.61
26:b:6045:BCR:H353	26:b:6047:BCR:H10C	1.77	0.61
29:b:6060:MGE:O2D	29:b:6060:MGE:C3G	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5449:ARG:HB2	23:c:6029:CLA:CED	2.31	0.61
4:d:5089:LEU:HD22	7:h:5050:ASN:OD1	2.00	0.61
4:d:5120:PHE:HE2	23:d:6008:CLA:HMA3	1.65	0.61
4:d:5156:VAL:HG12	4:d:5171:PRO:HG2	1.83	0.61
4:d:5196:PHE:HD1	4:d:5196:PHE:H	1.48	0.61
7:h:5006:TRP:CD1	7:h:5010:ILE:HD11	2.35	0.61
1:A:58:VAL:HG11	1:A:83:VAL:HG12	1.82	0.61
24:A:1039:PHO:HBC1	4:D:275:PRO:CB	2.30	0.61
24:A:1039:PHO:H42	4:D:41:ALA:HB1	1.81	0.61
2:B:141:ILE:N	2:B:217:ILE:HD13	2.16	0.61
2:B:223:GLN:C	2:B:225:LEU:H	2.08	0.61
23:B:1016:CLA:C14	23:D:1008:CLA:HHB	2.30	0.61
3:C:443:TRP:HD1	3:C:444:HIS:CE1	2.18	0.61
29:L:1061:MGE:H9A2	12:M:18:PRO:CB	2.30	0.61
13:O:92:VAL:HG23	13:O:93:PRO:HD2	1.82	0.61
15:U:58:ASN:C	15:U:127:ARG:HH21	2.08	0.61
23:a:6003:CLA:H141	24:d:6038:PHO:C8	2.24	0.61
2:b:5103:LEU:HD13	2:b:5103:LEU:O	1.99	0.61
2:b:5454:VAL:CG2	4:d:5284:ILE:HG23	2.30	0.61
2:b:5461:PHE:HB2	4:d:5280:TRP:CH2	2.35	0.61
23:b:6013:CLA:HMA3	23:b:6014:CLA:CMA	2.30	0.61
23:b:6021:CLA:O2A	23:b:6021:CLA:CMA	2.48	0.61
3:c:5209:ILE:N	3:c:5209:ILE:HD12	2.15	0.61
23:c:6028:CLA:HHC	23:c:6028:CLA:CBB	2.27	0.61
6:f:5032:PHE:HD2	6:f:5032:PHE:C	2.08	0.61
7:h:5040:VAL:O	7:h:5044:ILE:HG23	2.01	0.61
11:l:5027:LEU:HD13	11:l:5027:LEU:O	2.01	0.61
2:B:68:ARG:NH2	2:B:262:THR:HB	2.16	0.61
2:B:173:GLY:HA3	2:B:312:TYR:HE1	1.63	0.61
23:B:1011:CLA:C19	23:H:1017:CLA:H121	2.24	0.61
23:B:1011:CLA:C12	23:B:1011:CLA:C9	2.77	0.61
23:B:1011:CLA:C17	23:B:1016:CLA:CBC	2.79	0.61
3:C:405:ASN:O	3:C:407:VAL:HG23	2.01	0.61
23:C:1032:CLA:CED	23:C:1032:CLA:HMA3	2.30	0.61
4:D:199:MET:O	4:D:200:GLY:C	2.42	0.61
13:O:114:ASN:O	13:O:116:ASP:N	2.33	0.61
1:a:5033:PHE:HB3	1:a:5129:ARG:HB2	1.82	0.61
1:a:5153:SER:HB3	23:a:6003:CLA:CED	2.30	0.61
1:a:5278:TRP:O	1:a:5281:VAL:HG12	1.99	0.61
1:a:5289:GLY:O	1:a:5293:MET:HE3	2.01	0.61
2:b:5201:ALA:O	2:b:5205:VAL:HG23	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5294:THR:HG22	2:b:5297:GLU:CG	2.30	0.61
2:b:5461:PHE:CZ	29:b:6060:MGE:C4B	2.70	0.61
23:b:6017:CLA:H192	23:b:6017:CLA:H151	1.80	0.61
3:c:5036:TRP:CG	3:c:5037:ALA:N	2.68	0.61
3:c:5061:VAL:HG22	23:c:6027:CLA:HMD3	1.83	0.61
4:d:5101:PHE:CD1	4:d:5101:PHE:C	2.78	0.61
1:A:57:PRO:CA	1:A:68:SER:HB2	2.27	0.61
2:B:58:GLN:HA	2:B:329:PRO:HB2	1.83	0.61
2:B:100:HIS:O	2:B:103:LEU:HB3	2.01	0.61
2:B:121:GLU:O	2:B:123:PHE:N	2.33	0.61
23:B:1019:CLA:H91	29:L:1061:MGE:H8A1	1.83	0.61
3:C:61:VAL:HG22	23:C:1027:CLA:HMD3	1.81	0.61
3:C:120:ILE:HG21	26:Z:1053:BCR:H341	1.82	0.61
4:D:91:LEU:HD21	7:H:47:GLU:OE1	2.00	0.61
4:D:149:PRO:HA	4:D:152:VAL:HG12	1.81	0.61
4:D:324:GLY:C	4:D:326:ARG:H	2.08	0.61
5:E:34:GLY:HA2	6:F:32:PHE:CE2	2.35	0.61
1:a:5058:VAL:HG22	1:a:5106:LEU:O	2.00	0.61
1:a:5099:ALA:HB1	1:a:5104:GLU:CB	2.19	0.61
1:a:5122:GLY:O	1:a:5125:CYS:HB2	2.00	0.61
2:b:5023:HIS:O	2:b:5027:VAL:HG23	2.01	0.61
23:b:6009:CLA:CBA	23:b:6009:CLA:CHA	2.79	0.61
29:b:6060:MGE:CBB	29:b:6060:MGE:CFB	2.33	0.61
3:c:5350:ILE:HG13	3:c:5359:TRP:CB	2.29	0.61
23:c:6035:CLA:C12	10:k:5032:PHE:CE1	2.84	0.61
23:c:6036:CLA:H172	26:z:6053:BCR:C37	2.13	0.61
7:h:5022:ALA:HB1	7:h:5023:PRO:HD2	1.83	0.61
1:A:297:LEU:HD21	3:C:404:LEU:HA	1.83	0.61
23:A:1006:CLA:H202	26:D:1050:BCR:H402	1.81	0.61
2:B:92:SER:C	2:B:94:GLU:N	2.59	0.61
2:B:465:GLY:N	23:B:1019:CLA:HBC1	2.05	0.61
23:B:1021:CLA:O2A	23:B:1021:CLA:CMA	2.48	0.61
3:C:89:ILE:HG23	3:C:111:PHE:HE2	1.66	0.61
3:C:157:MET:HB3	23:C:1031:CLA:CBC	2.30	0.61
3:C:459:ILE:HB	4:D:223:PHE:CD1	2.36	0.61
23:C:1032:CLA:CAB	23:C:1034:CLA:CMC	2.79	0.61
10:K:18:PHE:CE2	20:Z:9:LEU:HD21	2.36	0.61
17:X:13:THR:HG22	17:X:15:SER:N	2.13	0.61
18:Y:19:ILE:C	18:Y:19:ILE:HD13	2.25	0.61
26:Z:1053:BCR:C33	26:Z:1053:BCR:HC8	2.31	0.61
2:b:5156:THR:O	2:b:5156:THR:HG22	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5475:VAL:HG13	2:b:5479:ILE:CG2	2.31	0.61
23:b:6011:CLA:CAD	23:b:6013:CLA:C4	2.72	0.61
23:b:6016:CLA:CMD	23:b:6018:CLA:HAB	2.30	0.61
23:b:6017:CLA:HAA1	7:h:5031:MET:SD	2.40	0.61
3:c:5265:ILE:C	3:c:5267:SER:H	2.09	0.61
3:c:5377:LEU:C	3:c:5380:ILE:HG22	2.25	0.61
12:m:5015:VAL:O	12:m:5015:VAL:HG12	2.01	0.61
16:v:5038:LEU:HD22	16:v:5045:ILE:HB	1.81	0.61
16:v:5160:LYS:HZ2	16:v:5160:LYS:CB	2.02	0.61
27:A:1063:LHG:H383	27:A:1063:LHG:C34	2.29	0.61
2:B:5:TRP:CZ2	2:B:6:TYR:HB3	2.35	0.61
2:B:134:ASP:OD1	2:B:137:LYS:HD2	2.00	0.61
2:B:141:ILE:O	2:B:145:LEU:HG	2.01	0.61
2:B:193:TYR:OH	2:B:259:GLY:HA3	2.01	0.61
23:B:1010:CLA:C2D	23:B:1011:CLA:HMB2	2.31	0.61
23:B:1016:CLA:H203	23:D:1008:CLA:CMA	2.31	0.61
3:C:97:TRP:HZ3	3:C:113:VAL:HG21	1.66	0.61
3:C:281:MET:HE1	23:C:1030:CLA:H18	1.83	0.61
3:C:285:ILE:CG2	23:C:1025:CLA:H52	2.30	0.61
4:D:119:ALA:O	4:D:123:ILE:HG12	2.00	0.61
11:L:30:LEU:HD23	11:L:30:LEU:C	2.26	0.61
15:U:123:GLU:O	15:U:125:GLY:N	2.33	0.61
17:X:13:THR:CG2	17:X:15:SER:H	2.10	0.61
2:b:5021:LEU:CD1	2:b:5108:ALA:HA	2.19	0.61
2:b:5269:ARG:HD3	2:b:5273:ASP:OD2	2.01	0.61
23:b:6012:CLA:CBC	23:b:6012:CLA:CHD	2.62	0.61
10:k:5032:PHE:CZ	26:k:6052:BCR:C20	2.83	0.61
20:z:5001:MET:HE2	20:z:5057:LEU:CG	2.29	0.61
2:B:121:GLU:C	2:B:123:PHE:H	2.07	0.61
2:B:144:PHE:HE1	2:B:210:ILE:HG23	1.64	0.61
2:B:360:PRO:HD2	2:B:363:PHE:CD2	2.36	0.61
23:C:1035:CLA:C10	26:K:1052:BCR:C40	2.75	0.61
4:D:152:VAL:HG11	23:D:1004:CLA:H51	1.82	0.61
10:K:11:LEU:HD23	10:K:12:PRO:HD2	1.81	0.61
15:U:103:GLN:O	15:U:104:ILE:C	2.44	0.61
1:a:5032:TRP:HA	1:a:5032:TRP:CE3	2.35	0.61
23:a:6006:CLA:CBA	30:c:6057:DGD:HBN2	2.31	0.61
2:b:5211:LEU:O	2:b:5215:LEU:HG	2.01	0.61
2:b:5294:THR:HG23	2:b:5297:GLU:N	2.03	0.61
23:b:6011:CLA:C17	23:b:6016:CLA:CBC	2.79	0.61
23:b:6016:CLA:HBA1	23:b:6016:CLA:CBD	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5167:VAL:HG11	23:c:6036:CLA:H3A	1.82	0.61
3:c:5254:THR:HG22	3:c:5255:THR:O	2.01	0.61
23:c:6025:CLA:H42	23:c:6025:CLA:CMB	2.31	0.61
4:d:5091:LEU:HA	23:d:6008:CLA:CED	2.30	0.61
4:d:5274:VAL:HG13	25:d:6042:PQ9:C27	2.31	0.61
4:d:5320:LEU:O	4:d:5323:GLU:N	2.34	0.61
7:h:5040:VAL:CG1	7:h:5041:PHE:N	2.63	0.61
1:A:223:LEU:HD23	4:D:265:ARG:NH1	2.16	0.60
2:B:13:ILE:HD12	2:B:14:ASN:OD1	2.01	0.60
2:B:209:GLY:HA3	23:B:1013:CLA:H191	1.82	0.60
2:B:414:PRO:HB2	2:B:415:PRO:CD	2.30	0.60
3:C:40:ALA:HA	23:C:1033:CLA:HMC2	1.83	0.60
3:C:132:HIS:HA	3:C:136:GLY:HA3	1.83	0.60
3:C:237:HIS:O	3:C:240:ILE:HG22	2.00	0.60
23:C:1025:CLA:C20	23:C:1031:CLA:C12	2.79	0.60
4:D:253:TRP:HB2	4:D:260:ALA:HB2	1.82	0.60
1:a:5021:VAL:HG21	1:a:5032:TRP:CZ3	2.36	0.60
2:b:5135:MET:HB3	23:b:6023:CLA:HBC3	1.83	0.60
2:b:5253:MET:HG3	2:b:5448:PHE:CD2	2.35	0.60
2:b:5450:PHE:HB2	4:d:5291:LEU:HD23	1.82	0.60
23:b:6014:CLA:C10	26:b:6048:BCR:H311	2.29	0.60
3:c:5224:ILE:C	3:c:5226:SER:N	2.56	0.60
13:o:5162:ILE:H	13:o:5162:ILE:CD1	2.13	0.60
15:u:5058:ASN:HD22	15:u:5058:ASN:N	1.99	0.60
15:u:5132:LEU:HD23	15:u:5132:LEU:O	2.01	0.60
1:A:140:ARG:NH2	27:A:1063:LHG:HC2	2.11	0.60
2:B:272:ARG:HD3	2:B:276:ASP:OD2	2.00	0.60
3:C:82:TYR:HD2	3:C:302:TYR:O	1.84	0.60
3:C:207:ARG:HG3	3:C:208:VAL:H	1.67	0.60
3:C:262:ARG:HB3	3:C:262:ARG:NH1	2.14	0.60
3:C:451:ALA:HA	3:C:456:GLU:HG2	1.83	0.60
4:D:168:PHE:C	4:D:168:PHE:CD2	2.79	0.60
25:D:1042:PQ9:H441	11:L:29:LEU:HD23	1.82	0.60
15:U:58:ASN:C	15:U:127:ARG:NH2	2.60	0.60
16:V:68:VAL:C	16:V:70:GLY:H	2.08	0.60
2:b:5118:GLU:O	2:b:5120:PHE:N	2.34	0.60
2:b:5461:PHE:HD1	23:b:6019:CLA:HBC1	1.66	0.60
23:b:6010:CLA:C2D	23:b:6011:CLA:HMB2	2.31	0.60
9:j:5040:LEU:HD22	9:j:5040:LEU:N	2.16	0.60
10:k:5034:ALA:HB3	26:k:6051:BCR:C18	2.31	0.60
11:l:5024:ILE:HD11	12:m:5018:PRO:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:5029:LEU:HD23	16:v:5029:LEU:H	1.65	0.60
20:z:5048:ILE:O	20:z:5052:LEU:HG	2.01	0.60
1:A:90:GLY:HA2	1:A:167:SER:CB	2.30	0.60
2:B:15:ASP:C	2:B:17:GLY:H	2.09	0.60
2:B:33:TRP:HB2	26:B:1047:BCR:H14C	1.83	0.60
2:B:260:SER:O	2:B:263:THR:N	2.33	0.60
2:B:279:TYR:O	2:B:280:PHE:C	2.43	0.60
2:B:390:TYR:N	2:B:390:TYR:HD1	1.99	0.60
23:B:1019:CLA:CMB	23:B:1020:CLA:NC	2.62	0.60
23:B:1020:CLA:H142	23:B:1021:CLA:HAB	1.82	0.60
23:B:1021:CLA:HMB1	23:B:1021:CLA:HBB1	1.82	0.60
3:C:36:TRP:CG	3:C:37:ALA:N	2.69	0.60
3:C:42:LEU:HD12	3:C:49:LEU:HG	1.83	0.60
3:C:196:VAL:O	3:C:196:VAL:HG13	1.99	0.60
23:C:1032:CLA:H171	23:C:1034:CLA:H191	1.81	0.60
4:D:171:PRO:HG3	4:D:181:PHE:CZ	2.36	0.60
23:D:1008:CLA:CMB	23:D:1008:CLA:HBB1	2.31	0.60
13:O:205:GLU:C	13:O:207:GLU:N	2.59	0.60
1:a:5071:LEU:CD2	14:t:5006:TYR:HD2	2.14	0.60
27:a:6063:LHG:H271	23:c:6032:CLA:C8	2.27	0.60
2:b:5370:LYS:CD	2:b:5371:ASN:H	2.14	0.60
2:b:5453:ALA:CB	30:h:6058:DGD:HBG2	2.31	0.60
23:b:6012:CLA:O1A	23:b:6013:CLA:CHA	2.49	0.60
23:c:6035:CLA:C14	10:k:5032:PHE:HE1	2.12	0.60
5:e:5019:TYR:O	5:e:5023:HIS:HB2	2.02	0.60
15:u:5042:VAL:HG23	15:u:5043:VAL:N	2.17	0.60
15:u:5072:TYR:CB	15:u:5073:PRO:HD3	2.31	0.60
16:v:5063:CYS:O	16:v:5064:ALA:C	2.44	0.60
2:B:135:LEU:HB2	2:B:136:PRO:HD3	1.82	0.60
3:C:197:ARG:HG2	3:C:198:VAL:H	1.66	0.60
3:C:282:MET:HA	3:C:285:ILE:HG22	1.83	0.60
3:C:365:TRP:CZ3	3:C:366:LEU:HD13	2.36	0.60
23:C:1025:CLA:H42	23:C:1025:CLA:CMB	2.31	0.60
23:C:1030:CLA:C2C	23:C:1031:CLA:H101	2.31	0.60
23:C:1032:CLA:HHC	23:C:1032:CLA:CBB	2.31	0.60
4:D:74:LEU:HA	4:D:175:VAL:CG2	2.31	0.60
4:D:160:TYR:HB3	4:D:161:PRO:CD	2.29	0.60
7:H:16:SER:O	7:H:18:TYR:N	2.32	0.60
8:I:15:PHE:O	8:I:18:LEU:N	2.34	0.60
12:M:31:SER:OG	12:m:5028:GLN:HB2	2.02	0.60
13:O:120:THR:HA	13:O:153:ALA:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:U:46:LYS:HE2	15:U:59:ASN:HD21	1.65	0.60
15:U:118:GLU:OE2	15:U:118:GLU:C	2.44	0.60
2:b:5068:VAL:HG21	2:b:5093:VAL:HG21	1.83	0.60
2:b:5453:ALA:CA	30:h:6058:DGD:CIB	2.77	0.60
2:b:5462:GLY:CA	23:b:6019:CLA:CBC	2.78	0.60
2:b:5465:TRP:HD1	2:b:5466:HIS:ND1	1.98	0.60
23:b:6017:CLA:C19	23:b:6017:CLA:C15	2.39	0.60
3:c:5058:GLY:HA2	3:c:5125:LEU:HD13	0.72	0.60
3:c:5093:ALA:HB1	3:c:5301:PHE:CZ	2.37	0.60
3:c:5447:ARG:HG3	3:c:5448:ALA:N	2.14	0.60
5:e:5027:ILE:CB	5:e:5028:PRO:HD3	2.21	0.60
13:o:5136:MET:HB2	13:o:5142:ILE:HD11	1.82	0.60
20:z:5035:ARG:C	20:z:5035:ARG:NE	2.59	0.60
1:A:223:LEU:HG	4:D:265:ARG:NE	2.17	0.60
1:A:296:ASN:CG	3:C:401:LEU:HG	2.27	0.60
2:B:20:ILE:O	2:B:24:LEU:HB2	2.01	0.60
2:B:36:SER:N	2:B:101:ILE:HD11	2.16	0.60
2:B:135:LEU:HA	2:B:138:MET:CE	2.30	0.60
2:B:156:PHE:HA	2:B:161:LEU:HB2	1.84	0.60
2:B:284:ILE:CG1	2:B:285:ASN:N	2.62	0.60
23:B:1021:CLA:C18	29:B:1060:MGE:H132	2.30	0.60
3:C:135:ARG:HG3	3:C:135:ARG:HH21	1.65	0.60
3:C:184:GLY:N	3:C:198:VAL:HG22	2.15	0.60
3:C:199:ILE:HD12	3:C:199:ILE:N	2.16	0.60
4:D:157:PHE:HE2	4:D:173:PHE:CE1	2.19	0.60
16:V:90:PRO:HD2	16:V:92:ARG:HH21	1.65	0.60
2:b:5253:MET:HE1	2:b:5265:PHE:HD1	1.65	0.60
23:b:6022:CLA:C14	23:b:6022:CLA:C17	2.39	0.60
23:b:6024:CLA:H172	26:b:6048:BCR:H343	1.83	0.60
3:c:5067:MET:HE1	23:c:6028:CLA:ND	2.17	0.60
3:c:5203:THR:O	3:c:5203:THR:HG23	2.01	0.60
3:c:5339:LYS:HE3	15:u:5124:GLY:O	2.00	0.60
3:c:5459:ILE:HD12	3:c:5459:ILE:N	2.16	0.60
23:c:6025:CLA:HMD1	23:c:6026:CLA:H43	1.84	0.60
17:x:5026:GLY:O	17:x:5029:VAL:CG1	2.45	0.60
1:A:206:PHE:CZ	23:D:1004:CLA:HBA2	2.36	0.60
1:A:272:HIS:CB	4:D:218:VAL:HG11	2.31	0.60
23:A:1007:CLA:O1D	23:A:1007:CLA:C2A	2.49	0.60
23:B:1012:CLA:HBC3	23:B:1012:CLA:CHD	2.25	0.60
23:B:1015:CLA:C18	29:B:1060:MGE:C8A	2.78	0.60
3:C:88:LEU:CD2	23:C:1027:CLA:HBC3	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:199:ILE:HG12	3:C:234:VAL:HG21	1.84	0.60
23:C:1025:CLA:HMD1	23:C:1026:CLA:H43	1.84	0.60
23:C:1034:CLA:C14	23:C:1034:CLA:H91	2.24	0.60
30:C:1056:DGD:HB61	30:C:1056:DGD:HBT1	1.82	0.60
4:D:311:PHE:C	4:D:311:PHE:HD1	2.08	0.60
7:H:31:MET:SD	23:H:1017:CLA:HAA1	2.42	0.60
12:M:34:LYS:HA	12:m:5032:GLN:HE22	1.66	0.60
16:V:111:GLU:HG3	16:V:112:GLN:N	2.15	0.60
1:a:5013:LEU:HD22	1:a:5013:LEU:N	2.13	0.60
1:a:5274:PHE:HA	1:a:5277:ALA:HB3	1.84	0.60
2:b:5072:TRP:CG	2:b:5091:GLU:HG3	2.37	0.60
2:b:5130:LEU:HD22	23:b:6023:CLA:HBC1	1.83	0.60
2:b:5190:TYR:O	2:b:5192:PRO:HD3	2.02	0.60
2:b:5226:LEU:O	2:b:5228:MET:N	2.33	0.60
2:b:5437:ASP:OD2	2:b:5438:GLY:N	2.35	0.60
23:b:6021:CLA:C19	29:b:6060:MGE:CDA	2.77	0.60
3:c:5416:SER:CB	16:v:5068:VAL:HG13	2.32	0.60
4:d:5209:LEU:HD12	24:d:6038:PHO:NC	2.16	0.60
4:d:5291:LEU:C	4:d:5293:LEU:N	2.57	0.60
4:d:5302:GLU:HA	4:d:5302:GLU:OE1	2.00	0.60
23:d:6005:CLA:H42	25:d:6042:PQ9:H191	1.83	0.60
5:e:5012:ASP:C	5:e:5014:ILE:H	2.10	0.60
11:l:5027:LEU:HD13	11:l:5027:LEU:C	2.25	0.60
13:o:5059:ASP:HB3	13:o:5062:GLN:H	1.66	0.60
13:o:5250:ASP:O	13:o:5253:ALA:HB2	2.02	0.60
16:v:5038:LEU:HG	16:v:5039:ASN:N	2.15	0.60
2:B:51:VAL:CG1	2:B:52:LEU:HG	2.31	0.60
2:B:246:PHE:CD1	2:B:246:PHE:C	2.79	0.60
4:D:73:PHE:CD2	4:D:74:LEU:HD23	2.36	0.60
8:I:6:ILE:H	8:I:6:ILE:CD1	2.10	0.60
8:I:6:ILE:HG12	8:I:7:THR:H	1.65	0.60
9:J:12:ILE:HD11	18:Y:34:MET:HE1	1.83	0.60
12:M:28:GLN:HB3	12:m:5027:VAL:HG12	1.81	0.60
1:a:5133:LEU:HD23	4:d:5252:PHE:HA	1.84	0.60
2:b:5012:ASP:O	2:b:5014:GLY:N	2.34	0.60
2:b:5086:GLY:C	2:b:5088:TRP:N	2.60	0.60
2:b:5154:HIS:CD2	2:b:5161:PRO:HD2	2.36	0.60
23:b:6009:CLA:H2A	23:b:6009:CLA:CED	2.23	0.60
23:b:6009:CLA:HMB1	26:h:6049:BCR:H392	1.83	0.60
4:d:5080:THR:HG23	4:d:5172:SER:OG	2.01	0.60
4:d:5092:LEU:HB3	4:d:5093:TRP:HE3	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i:5007:THR:HA	8:i:5010:ILE:HD12	1.81	0.60
11:l:5030:LEU:CD2	11:l:5031:PHE:N	2.65	0.60
12:m:5011:THR:CG2	12:m:5012:ALA:N	2.65	0.60
18:y:5020:LEU:O	18:y:5024:ARG:HB2	2.01	0.60
1:A:196:PRO:HB2	30:C:1057:DGD:C8A	2.32	0.60
1:A:279:ARG:NH2	1:A:279:ARG:HB3	2.16	0.60
23:A:1003:CLA:HAB	23:A:1006:CLA:CMD	2.31	0.60
2:B:30:VAL:O	23:B:1013:CLA:HMD3	2.01	0.60
2:B:241:SER:CB	23:B:1020:CLA:HED3	2.31	0.60
2:B:262:THR:C	2:B:264:PRO:HD3	2.27	0.60
3:C:99:VAL:HG11	3:C:196:VAL:CB	2.26	0.60
3:C:123:ALA:O	3:C:127:PHE:N	2.33	0.60
3:C:162:GLY:HA2	3:C:165:LEU:HB2	1.83	0.60
23:C:1029:CLA:HMA2	23:C:1029:CLA:CBA	2.03	0.60
23:C:1034:CLA:O2A	23:C:1034:CLA:H42	2.01	0.60
4:D:87:HIS:HA	4:D:167:TRP:CD1	2.37	0.60
4:D:202:ALA:HA	23:D:1005:CLA:O1A	2.01	0.60
7:H:38:PHE:CD1	26:H:1049:BCR:H10C	2.36	0.60
14:T:18:PHE:HB2	26:T:6046:BCR:C8	2.31	0.60
17:X:38:ILE:HA	17:X:41:SER:HB2	1.83	0.60
1:a:5223:LEU:CG	4:d:5265:ARG:HD3	2.30	0.60
2:b:5227:ARG:HA	2:b:5227:ARG:HH11	1.66	0.60
23:b:6011:CLA:H193	23:b:6016:CLA:HAC1	1.82	0.60
3:c:5179:ALA:HB2	3:c:5185:LEU:HG	1.83	0.60
23:c:6036:CLA:H193	26:z:6053:BCR:H372	1.82	0.60
4:d:5188:PHE:CZ	4:d:5329:MET:HE2	2.37	0.60
1:A:188:ALA:HB2	1:A:328:MET:CE	2.32	0.60
23:A:1007:CLA:HMC2	26:A:1044:BCR:H352	1.83	0.60
23:B:1014:CLA:C10	26:B:1048:BCR:H311	2.29	0.60
23:B:1023:CLA:ND	23:B:1024:CLA:CBC	2.65	0.60
3:C:95:LEU:N	3:C:95:LEU:CD2	2.65	0.60
3:C:95:LEU:O	3:C:185:LEU:HA	2.01	0.60
3:C:377:LEU:CA	3:C:380:ILE:HG22	2.32	0.60
23:C:1028:CLA:HBC2	23:C:1028:CLA:CHD	2.28	0.60
8:I:31:ASN:HB2	8:I:32:PRO:CD	2.30	0.60
1:a:5013:LEU:H	1:a:5013:LEU:CD2	2.10	0.60
1:a:5220:THR:HA	4:d:5265:ARG:NH1	2.17	0.60
23:b:6017:CLA:CBB	26:h:6049:BCR:C32	2.71	0.60
23:c:6032:CLA:HBB1	23:c:6032:CLA:CHC	2.32	0.60
4:d:5089:LEU:HG	4:d:5091:LEU:HD13	1.84	0.60
15:u:5092:LEU:HD21	15:u:5106:ARG:CG	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:5070:GLY:HA2	16:v:5080:LEU:HD12	1.84	0.60
1:A:161:TYR:HA	1:A:294:ALA:CB	2.32	0.60
1:A:310:LYS:HB2	16:V:28:GLU:HG3	1.84	0.60
23:A:1006:CLA:CED	30:C:1057:DGD:CDB	2.78	0.60
2:B:7:ARG:CA	23:B:1019:CLA:HBA1	2.31	0.60
2:B:162:PHE:C	23:B:1014:CLA:HMD3	2.27	0.60
2:B:229:LEU:O	2:B:231:MET:N	2.35	0.60
2:B:343:HIS:HE1	2:B:345:VAL:HG13	1.66	0.60
2:B:407:ASN:OD1	2:B:408:GLY:N	2.35	0.60
3:C:439:VAL:HG13	23:C:1032:CLA:HBC2	1.84	0.60
23:C:1036:CLA:C17	26:Z:1053:BCR:C37	2.77	0.60
4:D:186:GLN:NE2	4:D:186:GLN:O	2.34	0.60
5:E:42:LEU:O	5:E:43:ALA:C	2.44	0.60
6:F:41:GLN:HE22	9:J:27:LEU:CB	2.15	0.60
29:L:1061:MGE:C3B	29:L:1061:MGE:C7B	2.80	0.60
1:a:5269:ARG:HD2	4:d:5231:THR:HG21	1.77	0.60
2:b:5231:ILE:HD12	2:b:5234:VAL:CG1	2.31	0.60
23:b:6023:CLA:ND	23:b:6024:CLA:CBC	2.65	0.60
3:c:5179:ALA:CA	3:c:5184:GLY:HA2	2.23	0.60
4:d:5186:GLN:O	4:d:5186:GLN:NE2	2.35	0.60
4:d:5201:VAL:HG13	23:d:6004:CLA:HMB1	1.84	0.60
26:z:6053:BCR:C33	26:z:6053:BCR:HC8	2.30	0.60
1:A:298:ASN:OD1	1:A:298:ASN:N	2.35	0.59
23:A:1003:CLA:HHD	23:A:1003:CLA:CBC	2.25	0.59
27:A:1063:LHG:H321	23:C:1034:CLA:H143	1.81	0.59
27:A:1063:LHG:O1	3:C:447:ARG:NH2	2.35	0.59
23:C:1029:CLA:O2D	23:C:1029:CLA:C2A	2.50	0.59
4:D:266:TRP:CD1	29:D:1062:MGE:H3	2.19	0.59
23:H:1017:CLA:CBB	26:H:1049:BCR:H323	2.26	0.59
8:I:13:THR:O	8:I:17:LEU:HG	2.02	0.59
10:K:20:PRO:O	18:Y:21:GLN:HG3	2.02	0.59
10:K:43:VAL:O	10:K:43:VAL:HG12	2.00	0.59
15:U:56:ASP:OD1	15:U:58:ASN:N	2.33	0.59
16:V:61:TYR:C	16:V:61:TYR:HD1	2.09	0.59
1:a:5036:ILE:HG22	1:a:5125:CYS:SG	2.42	0.59
1:a:5271:LEU:HD22	1:a:5272:HIS:N	2.17	0.59
2:b:5027:VAL:HG11	23:b:6020:CLA:H111	1.84	0.59
2:b:5461:PHE:CE2	29:b:6060:MGE:H6B1	2.37	0.59
4:d:5221:THR:HG23	4:d:5244:TYR:CB	2.33	0.59
6:f:5041:GLN:NE2	9:j:5031:GLY:HA3	2.16	0.59
1:A:17:PHE:O	1:A:21:VAL:HG13	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:79:THR:OG1	1:A:80:GLY:N	2.35	0.59
2:B:230:ARG:HA	2:B:230:ARG:HH11	1.65	0.59
2:B:450:TRP:HB3	23:B:1015:CLA:HMB3	1.84	0.59
23:B:1024:CLA:H172	26:B:1048:BCR:H343	1.83	0.59
26:B:1047:BCR:C23	26:B:1047:BCR:C38	2.55	0.59
3:C:304:PRO:HG3	3:C:398:HIS:O	2.02	0.59
3:C:455:PHE:HZ	8:I:31:ASN:HB2	1.67	0.59
4:D:92:LEU:HB3	4:D:93:TRP:HE3	1.66	0.59
7:H:12:ARG:HB3	7:H:12:ARG:NH1	2.17	0.59
11:L:36:PHE:HD2	14:T:6:TYR:CZ	2.19	0.59
12:M:17:VAL:N	12:M:18:PRO:HD2	2.16	0.59
15:U:73:PRO:HD2	16:V:109:ASP:OD1	2.02	0.59
15:U:98:THR:H	15:U:101:GLN:CG	2.14	0.59
1:a:5091:LEU:O	3:c:5218:PHE:HB3	2.02	0.59
23:a:6007:CLA:HMC2	26:a:6044:BCR:H352	1.83	0.59
2:b:5003:TYR:CZ	11:l:5011:GLU:HG3	2.37	0.59
23:b:6013:CLA:C15	23:b:6018:CLA:HED1	2.32	0.59
3:c:5321:ASP:CG	15:u:5129:ASN:HB2	2.27	0.59
23:c:6030:CLA:C2C	23:c:6031:CLA:H101	2.31	0.59
5:e:5038:VAL:HG11	6:f:5039:ALA:HB3	1.83	0.59
27:A:1063:LHG:C29	23:C:1032:CLA:C8	2.79	0.59
2:B:143:LEU:HD12	2:B:213:GLY:CA	2.32	0.59
2:B:148:LEU:HG	2:B:149:LEU:N	2.16	0.59
3:C:60:ILE:HG12	23:C:1027:CLA:HMD1	1.84	0.59
3:C:367:GLU:O	3:C:370:ARG:HB3	2.01	0.59
23:C:1033:CLA:H141	23:C:1033:CLA:H172	1.84	0.59
23:C:1034:CLA:C9	23:C:1034:CLA:C13	2.80	0.59
4:D:39:PRO:O	4:D:42:TYR:HB3	2.01	0.59
6:F:18:VAL:C	6:F:20:TRP:N	2.59	0.59
9:J:19:MET:O	9:J:23:VAL:N	2.34	0.59
20:Z:37:LYS:HZ2	20:Z:38:GLN:HG2	1.66	0.59
2:b:5471:LEU:C	2:b:5472:PHE:HD2	2.10	0.59
23:b:6013:CLA:H141	23:b:6018:CLA:HMA1	1.84	0.59
23:b:6014:CLA:C19	23:b:6014:CLA:C15	2.44	0.59
23:b:6019:CLA:H192	23:b:6021:CLA:H52	1.81	0.59
3:c:5055:ALA:C	26:k:6052:BCR:H372	2.28	0.59
23:c:6029:CLA:O2D	23:c:6029:CLA:C2A	2.50	0.59
23:c:6033:CLA:H141	23:c:6033:CLA:H172	1.84	0.59
4:d:5278:GLY:O	4:d:5281:MET:HB2	2.02	0.59
11:l:5021:LEU:C	11:l:5024:ILE:HG22	2.26	0.59
13:o:5046:PRO:HD2	13:o:5266:TYR:CD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5196:SER:O	13:o:5197:ALA:C	2.44	0.59
16:v:5111:GLU:O	16:v:5112:GLN:HB2	2.02	0.59
16:v:5120:SER:H	16:v:5123:SER:CB	2.07	0.59
1:A:160:ILE:HD11	30:C:1055:DGD:HBH2	1.82	0.59
2:B:39:LEU:O	2:B:43:ALA:N	2.29	0.59
2:B:138:MET:SD	23:B:1023:CLA:CBC	2.89	0.59
2:B:320:ALA:O	4:D:292:ASN:HB2	2.03	0.59
3:C:61:VAL:HG21	3:C:125:LEU:HD12	1.84	0.59
3:C:140:LEU:CB	3:C:148:GLY:HA2	2.32	0.59
3:C:449:ARG:NH2	23:C:1029:CLA:HED2	2.17	0.59
23:C:1026:CLA:CBA	23:C:1027:CLA:HAC1	2.32	0.59
4:D:168:PHE:C	4:D:168:PHE:HD2	2.10	0.59
5:E:37:PHE:CZ	5:E:46:VAL:HG21	2.37	0.59
11:L:22:LEU:HD22	29:L:1061:MGE:H201	1.84	0.59
12:M:14:PHE:O	12:M:18:PRO:HG3	2.02	0.59
16:V:148:GLU:O	16:V:151:ILE:HB	2.02	0.59
1:a:5202:VAL:HG21	23:a:6006:CLA:OBD	2.00	0.59
23:a:6003:CLA:HAB	23:a:6006:CLA:CMD	2.31	0.59
23:a:6006:CLA:HBB1	23:a:6006:CLA:CHC	2.29	0.59
2:b:5189:PRO:HG2	7:h:5049:TYR:CZ	2.37	0.59
3:c:5369:LEU:HD11	3:c:5380:ILE:HA	1.83	0.59
23:c:6026:CLA:C4	23:c:6026:CLA:C7	2.80	0.59
4:d:5149:PRO:HA	4:d:5152:VAL:HG12	1.83	0.59
4:d:5159:ILE:HD12	4:d:5287:VAL:HG12	1.84	0.59
1:A:14:TRP:NE1	1:A:18:CYS:SG	2.76	0.59
1:A:37:MET:O	1:A:41:LEU:HD23	2.01	0.59
1:A:132:GLU:O	1:A:136:ARG:HB2	2.02	0.59
1:A:237:TYR:CE1	4:D:264:LYS:HG2	2.38	0.59
1:A:341:LEU:HD12	3:C:313:GLN:HE22	1.68	0.59
23:A:1006:CLA:CBA	30:C:1057:DGD:HBN2	2.32	0.59
2:B:226:TYR:O	2:B:226:TYR:HD2	1.85	0.59
2:B:256:MET:HE3	2:B:448:ARG:NH1	2.15	0.59
2:B:460:LEU:CG	30:H:1058:DGD:CIA	2.80	0.59
23:B:1011:CLA:C17	23:B:1016:CLA:HBC1	2.29	0.59
23:B:1012:CLA:HED3	23:B:1013:CLA:H11	1.84	0.59
23:B:1016:CLA:HBA1	23:B:1016:CLA:CBD	2.31	0.59
4:D:235:PHE:CZ	4:D:243:THR:HG22	2.38	0.59
23:D:1005:CLA:C4	25:D:1042:PQ9:H191	2.32	0.59
5:E:58:GLN:OE1	5:E:58:GLN:O	2.20	0.59
7:H:53:LEU:O	7:H:55:LEU:HD13	2.02	0.59
13:O:184:ASP:HB2	13:O:185:PRO:CD	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:U:72:TYR:CB	15:U:73:PRO:CD	2.80	0.59
16:V:48:THR:N	16:V:51:GLN:HG2	2.16	0.59
18:Y:39:LEU:CD2	20:Z:25:VAL:HG13	2.32	0.59
1:a:5030:VAL:O	1:a:5031:GLY:O	2.19	0.59
27:a:6063:LHG:C32	23:c:6034:CLA:C9	2.80	0.59
2:b:5426:ILE:H	2:b:5426:ILE:CD1	2.08	0.59
23:b:6016:CLA:H203	23:d:6008:CLA:CMA	2.31	0.59
23:b:6022:CLA:CED	23:b:6022:CLA:CAD	2.80	0.59
3:c:5107:ASP:OD1	3:c:5110:PRO:HD3	2.02	0.59
3:c:5169:GLY:HA3	3:c:5245:ILE:CG1	2.23	0.59
3:c:5215:LYS:HG2	3:c:5216:SER:H	1.67	0.59
3:c:5335:THR:HA	13:o:5182:PHE:CD1	2.37	0.59
3:c:5348:GLU:CD	3:c:5359:TRP:CZ3	2.78	0.59
4:d:5043:LEU:HD12	26:d:6050:BCR:H323	1.84	0.59
4:d:5085:MET:HE1	5:e:5069:ARG:HA	1.82	0.59
11:l:5036:PHE:CD1	12:m:5003:VAL:HG21	2.37	0.59
2:B:24:LEU:HD13	2:B:111:ALA:CA	2.22	0.59
23:B:1013:CLA:H141	23:B:1018:CLA:HMA1	1.83	0.59
3:C:436:PHE:O	3:C:439:VAL:CG1	2.50	0.59
3:C:453:ALA:HB1	3:C:455:PHE:CZ	2.37	0.59
5:E:13:ILE:HG23	5:E:13:ILE:O	2.02	0.59
13:O:136:MET:HB2	13:O:142:ILE:CD1	2.33	0.59
23:a:6006:CLA:HHC	23:a:6006:CLA:CBB	2.29	0.59
2:b:5016:LEU:O	2:b:5016:LEU:HD13	2.02	0.59
2:b:5098:ILE:HG23	26:b:6047:BCR:H373	1.84	0.59
23:b:6016:CLA:HMD2	23:b:6018:CLA:HAB	1.84	0.59
23:b:6020:CLA:H142	23:b:6021:CLA:CAB	2.33	0.59
3:c:5089:ILE:HB	3:c:5090:PRO:HD3	1.84	0.59
3:c:5140:LEU:HD23	3:c:5149:TYR:CE2	2.38	0.59
3:c:5171:GLY:HA2	3:c:5174:LEU:HG	1.84	0.59
3:c:5275:SER:HB3	23:c:6033:CLA:CED	2.33	0.59
24:d:6038:PHO:CED	24:d:6038:PHO:C4D	2.69	0.59
7:h:5006:TRP:CD1	7:h:5006:TRP:C	2.80	0.59
12:m:5001:MET:N	12:m:5001:MET:HE3	2.17	0.59
14:t:5004:ILE:CD1	14:t:5004:ILE:H	2.14	0.59
23:A:1006:CLA:H171	26:D:1050:BCR:H292	1.71	0.59
2:B:103:LEU:C	2:B:103:LEU:HD13	2.28	0.59
2:B:113:TRP:CD1	26:B:1048:BCR:C37	2.85	0.59
2:B:414:PRO:O	2:B:415:PRO:C	2.44	0.59
2:B:465:GLY:HA3	23:B:1019:CLA:HBC3	1.83	0.59
23:B:1013:CLA:C15	23:B:1018:CLA:HED1	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1016:CLA:HMD2	23:B:1018:CLA:HAB	1.84	0.59
3:C:314:ALA:O	3:C:315:MET:C	2.46	0.59
3:C:346:THR:HG21	13:O:38:GLY:N	2.16	0.59
3:C:405:ASN:O	3:C:405:ASN:CG	2.45	0.59
3:C:410:VAL:O	3:C:412:THR:N	2.36	0.59
4:D:73:PHE:HD2	4:D:74:LEU:HD23	1.68	0.59
4:D:249:ALA:O	4:D:252:PHE:HB3	2.02	0.59
11:L:32:SER:OG	11:L:33:SER:N	2.33	0.59
20:Z:49:ALA:C	20:Z:53:VAL:HG23	2.28	0.59
1:a:5279:ARG:HG3	24:d:6038:PHO:HAC1	1.84	0.59
1:a:5308:ASP:CG	1:a:5309:ALA:H	2.10	0.59
2:b:5071:SER:HB2	2:b:5091:GLU:OE1	2.03	0.59
2:b:5239:ILE:CG2	2:b:5463:HIS:HB2	2.31	0.59
3:c:5035:TRP:CG	3:c:5036:TRP:N	2.70	0.59
3:c:5088:LEU:HD23	23:c:6027:CLA:HMC3	1.84	0.59
3:c:5154:LYS:HZ1	3:c:5261:ARG:HD3	1.66	0.59
3:c:5276:LEU:HD23	3:c:5276:LEU:C	2.28	0.59
23:c:6029:CLA:H191	23:c:6029:CLA:H43	1.84	0.59
23:c:6033:CLA:HED3	23:c:6033:CLA:CAD	2.31	0.59
4:d:5342:PRO:HB2	4:d:5345:VAL:HG23	1.85	0.59
23:d:6008:CLA:CMB	23:d:6008:CLA:HBB1	2.31	0.59
5:e:5051:ARG:C	5:e:5053:ASP:H	2.11	0.59
20:z:5049:ALA:O	20:z:5051:VAL:N	2.35	0.59
1:A:219:VAL:CG1	4:D:268:HIS:CE1	2.86	0.59
2:B:9:HIS:HD1	23:B:1019:CLA:H11	1.67	0.59
2:B:143:LEU:HD12	2:B:213:GLY:N	2.17	0.59
2:B:148:LEU:CA	2:B:210:ILE:HD11	2.32	0.59
23:B:1009:CLA:C4B	26:H:1049:BCR:H382	2.33	0.59
23:B:1011:CLA:CAB	23:B:1013:CLA:H203	2.30	0.59
3:C:72:LEU:C	3:C:72:LEU:HD13	2.28	0.59
3:C:167:VAL:HG11	23:C:1036:CLA:H3A	1.83	0.59
3:C:211:GLY:O	3:C:212:TYR:C	2.45	0.59
3:C:399:ALA:O	3:C:401:LEU:N	2.33	0.59
3:C:469:MET:HE2	4:D:251:ARG:CZ	2.32	0.59
4:D:44:ALA:O	4:D:45:LEU:C	2.45	0.59
7:H:14:LEU:HD12	7:H:14:LEU:H	1.66	0.59
13:O:41:LEU:C	13:O:43:ASN:H	2.10	0.59
16:V:35:THR:O	16:V:35:THR:HG22	2.02	0.59
1:a:5046:ILE:O	1:a:5050:ILE:HG13	2.03	0.59
1:a:5065:GLU:O	1:a:5065:GLU:HG3	2.02	0.59
1:a:5075:ASN:HD22	14:t:5002:GLU:HG2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5076:ASN:HD22	1:a:5079:THR:H	1.49	0.59
2:b:5044:PRO:O	2:b:5046:ASP:N	2.35	0.59
2:b:5147:CYS:SG	2:b:5199:HIS:HD2	2.26	0.59
2:b:5462:GLY:H	23:b:6019:CLA:HBC2	1.66	0.59
2:b:5475:VAL:HG13	2:b:5479:ILE:HG22	1.84	0.59
23:b:6010:CLA:HMD2	23:b:6011:CLA:C5	2.33	0.59
23:b:6012:CLA:HHC	23:b:6012:CLA:CBB	2.24	0.59
3:c:5055:ALA:O	26:k:6052:BCR:H372	2.02	0.59
3:c:5285:ILE:HG23	23:c:6025:CLA:H52	1.83	0.59
23:c:6025:CLA:H41	23:c:6025:CLA:CMB	2.33	0.59
4:d:5055:VAL:HG11	4:d:5105:CYS:SG	2.43	0.59
4:d:5168:PHE:C	4:d:5170:ALA:H	2.10	0.59
4:d:5235:PHE:CG	4:d:5240:ALA:HB3	2.37	0.59
4:d:5350:ASN:O	4:d:5351:ALA:HB3	2.03	0.59
5:e:5053:ASP:OD2	5:e:5054:SER:N	2.36	0.59
7:h:5032:ALA:HA	7:h:5035:MET:CE	2.33	0.59
11:l:5024:ILE:HD13	12:m:5019:SER:HA	1.84	0.59
12:m:5033:GLN:HA	12:m:5033:GLN:HE21	1.66	0.59
13:o:5155:THR:HA	13:o:5167:ASP:O	2.02	0.59
13:o:5223:ILE:HG12	13:o:5224:SER:N	2.16	0.59
20:z:5003:ILE:HD12	20:z:5003:ILE:H	1.67	0.59
1:A:116:ILE:HG23	1:A:117:PHE:H	1.67	0.59
1:A:154:ALA:HB2	23:A:1003:CLA:H61	1.85	0.59
1:A:322:ASN:ND2	3:C:412:THR:CG2	2.65	0.59
24:A:1039:PHO:H71	4:D:122:LEU:HD13	1.84	0.59
2:B:133:LEU:HD22	23:B:1023:CLA:HBC1	1.85	0.59
2:B:156:PHE:HB2	23:B:1014:CLA:HAC2	1.84	0.59
2:B:357:ARG:HH22	4:D:337:GLU:HG2	1.67	0.59
23:B:1009:CLA:CBA	23:B:1009:CLA:CHA	2.79	0.59
3:C:248:GLY:C	3:C:250:TRP:H	2.09	0.59
4:D:89:LEU:HD23	7:H:52:THR:HG21	1.82	0.59
4:D:123:ILE:O	4:D:127:LEU:HD23	2.02	0.59
4:D:281:MET:HE3	4:D:284:ILE:HD12	1.84	0.59
5:E:10:PHE:HD2	6:F:19:ARG:HH21	1.50	0.59
10:K:28:ILE:N	10:K:29:PRO:HD2	2.17	0.59
13:O:69:LEU:HD22	13:O:121:PHE:CZ	2.38	0.59
15:U:89:GLU:O	15:U:91:VAL:N	2.36	0.59
15:U:92:LEU:H	15:U:92:LEU:CD1	2.16	0.59
16:V:62:ALA:CB	31:V:1041:HEM:HBB1	2.33	0.59
16:V:98:LEU:CD2	16:V:145:ILE:HG21	2.30	0.59
1:a:5131:TRP:C	1:a:5131:TRP:CD2	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5199:GLN:NE2	30:c:6057:DGD:HBW2	2.17	0.59
1:a:5223:LEU:HG	4:d:5265:ARG:HD3	1.84	0.59
2:b:5131:ASP:OD1	2:b:5134:LYS:HD2	2.02	0.59
2:b:5453:ALA:CB	30:h:6058:DGD:CIB	2.81	0.59
3:c:5060:ILE:HG12	23:c:6027:CLA:CMD	2.32	0.59
3:c:5222:GLY:O	3:c:5223:TRP:C	2.44	0.59
23:c:6032:CLA:HHC	23:c:6032:CLA:CBB	2.31	0.59
26:d:6050:BCR:C33	26:d:6050:BCR:C8	2.36	0.59
5:e:5031:PHE:HE1	5:e:5035:TRP:HE3	1.51	0.59
7:h:5013:PRO:O	7:h:5015:ASN:N	2.35	0.59
11:l:5021:LEU:CA	11:l:5024:ILE:HG22	2.32	0.59
16:v:5128:PRO:O	16:v:5130:MET:N	2.36	0.59
16:v:5159:GLY:O	16:v:5160:LYS:CG	2.47	0.59
2:B:260:SER:HB3	2:B:263:THR:OG1	2.03	0.59
2:B:297:THR:O	2:B:300:GLU:N	2.36	0.59
2:B:304:ALA:O	2:B:306:PRO:HD3	2.03	0.59
2:B:478:VAL:O	2:B:480:SER:N	2.36	0.59
3:C:88:LEU:HD21	23:C:1027:CLA:HBC3	1.84	0.59
3:C:175:LEU:HD12	3:C:237:HIS:CD2	2.37	0.59
3:C:464:GLU:HG3	3:C:467:LEU:HB2	1.85	0.59
23:C:1033:CLA:OBD	23:C:1033:CLA:CED	2.38	0.59
4:D:28:VAL:O	4:D:28:VAL:HG13	2.01	0.59
5:E:30:LEU:HG	6:F:28:VAL:HG23	1.83	0.59
5:E:40:THR:HG21	19:N:3:UNK:CB	2.33	0.59
26:H:1049:BCR:C12	26:H:1049:BCR:H341	2.33	0.59
8:I:3:THR:HA	8:I:6:ILE:HD11	1.84	0.59
12:M:34:LYS:HE3	11:l:5009:PRO:HB2	1.83	0.59
13:O:66:ILE:HD11	13:O:121:PHE:CE2	2.38	0.59
1:a:5300:PHE:CD2	3:c:5404:LEU:HB3	2.38	0.59
27:a:6063:LHG:C29	23:c:6032:CLA:C8	2.79	0.59
2:b:5370:LYS:HD3	2:b:5371:ASN:N	2.18	0.59
2:b:5379:PRO:CG	2:b:5388:SER:HB2	2.33	0.59
23:b:6010:CLA:C2D	23:b:6011:CLA:CMB	2.81	0.59
23:b:6014:CLA:C11	23:b:6014:CLA:H162	2.27	0.59
23:b:6016:CLA:H2A	23:b:6016:CLA:O1D	2.03	0.59
3:c:5202:PRO:HG2	3:c:5204:LEU:HD21	1.84	0.59
3:c:5262:ARG:O	3:c:5263:ALA:HB3	2.03	0.59
3:c:5274:TYR:HD1	3:c:5274:TYR:H	1.51	0.59
23:c:6028:CLA:H51	30:c:6056:DGD:HA52	1.85	0.59
4:d:5122:LEU:HD11	23:d:6004:CLA:H91	1.85	0.59
13:o:5031:LEU:CD2	13:o:5031:LEU:N	2.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:250:PHE:CE2	23:B:1010:CLA:H202	2.38	0.58
23:B:1010:CLA:HMD2	23:B:1011:CLA:C5	2.33	0.58
23:B:1010:CLA:C4	7:H:46:LEU:HA	2.32	0.58
23:B:1019:CLA:H192	23:B:1021:CLA:H52	1.82	0.58
3:C:56:HIS:O	3:C:59:LEU:HB2	2.02	0.58
3:C:116:VAL:C	3:C:118:HIS:H	2.09	0.58
3:C:460:ASP:O	3:C:462:GLU:N	2.36	0.58
23:C:1030:CLA:HMB2	23:C:1031:CLA:NB	2.18	0.58
8:I:17:LEU:O	8:I:21:PHE:HB2	2.03	0.58
18:Y:32:GLY:CA	18:Y:35:ILE:HG23	2.31	0.58
1:a:5028:LEU:HD23	4:d:5255:GLN:HA	1.84	0.58
1:a:5064:ARG:HH21	1:a:5064:ARG:CG	2.15	0.58
1:a:5149:ALA:HB1	1:a:5283:VAL:HG22	1.83	0.58
2:b:5088:TRP:HA	2:b:5088:TRP:CE3	2.37	0.58
2:b:5110:TRP:CD1	26:b:6048:BCR:H373	2.38	0.58
2:b:5339:GLY:CA	2:b:5401:GLY:HA3	2.33	0.58
2:b:5439:ILE:O	2:b:5440:PHE:C	2.46	0.58
23:b:6009:CLA:C4B	26:h:6049:BCR:H382	2.33	0.58
3:c:5054:VAL:HA	23:c:6036:CLA:CED	2.33	0.58
3:c:5425:TRP:HA	3:c:5428:THR:CG2	2.32	0.58
23:c:6034:CLA:C14	23:c:6034:CLA:C17	2.51	0.58
23:d:6005:CLA:H192	24:d:6038:PHO:H92	1.86	0.58
7:h:5054:ILE:O	7:h:5054:ILE:HG23	2.02	0.58
13:o:5218:LEU:HD23	13:o:5218:LEU:C	2.27	0.58
15:u:5097:LEU:HB3	15:u:5102:LYS:HG2	1.85	0.58
20:z:5005:PHE:HD1	20:z:5057:LEU:HD22	1.68	0.58
1:A:127:MET:HB2	1:A:151:LEU:HD22	1.84	0.58
2:B:16:PRO:O	2:B:20:ILE:HG13	2.02	0.58
2:B:47:PRO:O	2:B:49:ASP:N	2.36	0.58
29:B:1060:MGE:H101	29:L:1061:MGE:H8A2	1.85	0.58
3:C:428:THR:HG23	3:C:429:SER:N	2.14	0.58
23:C:1028:CLA:H51	30:C:1056:DGD:HA52	1.85	0.58
15:U:46:LYS:HE2	15:U:59:ASN:HD22	1.65	0.58
2:b:5462:GLY:HA3	23:b:6019:CLA:HBC3	1.85	0.58
23:b:6011:CLA:CAB	23:b:6013:CLA:H203	2.30	0.58
3:c:5053:HIS:HB2	23:c:6036:CLA:HMD2	1.86	0.58
23:c:6030:CLA:CMC	23:c:6031:CLA:C10	2.69	0.58
4:d:5080:THR:HB	4:d:5081:PRO:HD2	1.85	0.58
4:d:5120:PHE:HA	4:d:5123:ILE:CG1	2.33	0.58
4:d:5344:GLU:O	4:d:5346:LEU:N	2.35	0.58
13:o:5073:PRO:HA	13:o:5263:GLY:HA3	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:289:GLY:O	1:A:292:THR:HG22	2.03	0.58
23:B:1010:CLA:CAD	23:B:1010:CLA:CED	2.79	0.58
23:B:1020:CLA:H142	23:B:1021:CLA:CAB	2.33	0.58
23:B:1022:CLA:CAD	23:B:1022:CLA:CED	2.80	0.58
26:B:1045:BCR:H353	26:B:1047:BCR:H10C	1.77	0.58
3:C:171:GLY:C	3:C:173:LEU:H	2.11	0.58
3:C:171:GLY:HA2	3:C:174:LEU:HG	1.83	0.58
3:C:297:TYR:HA	3:C:302:TYR:HE2	1.67	0.58
3:C:325:GLY:C	15:U:128:TYR:CE2	2.82	0.58
23:C:1029:CLA:H191	23:C:1029:CLA:H43	1.84	0.58
23:C:1033:CLA:HED3	23:C:1033:CLA:CAD	2.31	0.58
4:D:145:ALA:HB2	4:D:272:LEU:HD11	1.83	0.58
4:D:195:PRO:HB3	11:L:30:LEU:HD21	1.84	0.58
4:D:210:LEU:O	4:D:212:ALA:N	2.36	0.58
5:E:42:LEU:O	5:E:46:VAL:HG23	2.03	0.58
18:Y:29:GLY:O	18:Y:33:PRO:CD	2.52	0.58
1:a:5147:TYR:CE1	1:a:5151:LEU:HB2	2.38	0.58
1:a:5210:LEU:HD12	1:a:5210:LEU:C	2.28	0.58
1:a:5273:PHE:HE2	4:d:5222:LEU:HD21	1.69	0.58
23:a:6003:CLA:CMD	23:d:6005:CLA:HBC1	2.34	0.58
2:b:5068:VAL:HG13	2:b:5068:VAL:O	2.03	0.58
23:b:6014:CLA:CHD	23:b:6014:CLA:CBC	2.78	0.58
3:c:5051:GLY:O	3:c:5055:ALA:HB2	2.03	0.58
23:c:6028:CLA:HBB1	23:c:6028:CLA:CHC	2.25	0.58
4:d:5083:ASN:HD22	4:d:5169:PHE:HE2	1.50	0.58
4:d:5092:LEU:O	4:d:5092:LEU:HD13	2.03	0.58
4:d:5180:ARG:C	4:d:5180:ARG:CD	2.76	0.58
6:f:5045:ARG:HH11	6:f:5045:ARG:HG3	1.68	0.58
13:o:5123:GLU:HG2	13:o:5124:GLU:N	2.19	0.58
15:u:5089:GLU:O	15:u:5091:VAL:N	2.36	0.58
1:A:95:PRO:O	1:A:96:ILE:C	2.45	0.58
1:A:223:LEU:HB2	4:D:265:ARG:NH1	2.18	0.58
2:B:297:THR:HG23	2:B:300:GLU:N	2.19	0.58
2:B:366:PHE:CG	2:B:367:PRO:HD2	2.38	0.58
2:B:478:VAL:HG12	4:D:139:ARG:HD2	1.86	0.58
23:B:1009:CLA:HMB1	26:H:1049:BCR:H392	1.83	0.58
23:B:1010:CLA:C3D	23:B:1011:CLA:CMB	2.81	0.58
3:C:166:ILE:HG23	3:C:245:ILE:CD1	2.33	0.58
3:C:249:ILE:HG22	3:C:249:ILE:O	2.02	0.58
4:D:24:ARG:O	4:D:26:ARG:N	2.36	0.58
26:D:1050:BCR:H403	26:D:1050:BCR:C22	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:17:VAL:HG11	9:J:7:ARG:HG2	1.84	0.58
13:O:65:ARG:NE	13:O:110:GLU:HA	2.18	0.58
17:X:35:ALA:HA	17:X:38:ILE:HD11	1.86	0.58
1:a:5131:TRP:CZ3	1:a:5132:GLU:HG3	2.39	0.58
1:a:5181:ASN:HB2	4:d:5318:ASN:OD1	2.03	0.58
1:a:5297:LEU:CD1	3:c:5428:THR:HG21	2.26	0.58
23:a:6007:CLA:O1D	23:a:6007:CLA:C2A	2.49	0.58
27:a:6063:LHG:H321	23:c:6034:CLA:H143	1.82	0.58
2:b:5320:GLY:HA3	2:b:5323:ARG:HD3	1.84	0.58
23:b:6010:CLA:C3D	23:b:6011:CLA:CMB	2.81	0.58
23:b:6011:CLA:CBB	23:b:6011:CLA:HHC	2.22	0.58
3:c:5437:PHE:CZ	23:c:6032:CLA:HBB2	2.38	0.58
4:d:5111:TRP:CD1	4:d:5173:PHE:CD2	2.91	0.58
4:d:5261:PHE:CE1	25:d:6042:PQ9:H143	2.23	0.58
15:u:5069:ARG:HG3	15:u:5069:ARG:NH1	2.18	0.58
1:A:187:GLN:OE1	1:A:193:LEU:HB2	2.04	0.58
1:A:214:MET:O	1:A:217:SER:N	2.37	0.58
1:A:269:ARG:HE	4:D:243:THR:HG21	1.67	0.58
24:A:1038:PHO:HBC1	4:D:212:ALA:CB	2.32	0.58
2:B:5:TRP:CH2	29:L:1061:MGE:H3A1	2.39	0.58
2:B:450:TRP:HB3	23:B:1015:CLA:HMB2	1.84	0.58
2:B:454:ALA:C	2:B:456:ALA:N	2.47	0.58
2:B:464:PHE:CD1	23:B:1019:CLA:HBC1	2.38	0.58
23:B:1016:CLA:H51	23:H:1017:CLA:C10	2.29	0.58
3:C:45:LEU:HD21	3:C:141:GLU:CG	2.32	0.58
3:C:116:VAL:C	3:C:118:HIS:N	2.60	0.58
3:C:436:PHE:O	3:C:439:VAL:HG13	2.02	0.58
4:D:253:TRP:CA	4:D:256:ILE:HG22	2.23	0.58
16:V:48:THR:H	16:V:51:GLN:NE2	2.01	0.58
18:Y:39:LEU:HD21	20:Z:25:VAL:HG13	1.86	0.58
1:a:5304:HIS:CD2	1:a:5313:VAL:HG21	2.39	0.58
2:b:5115:TRP:CD2	11:l:5004:ASN:ND2	2.71	0.58
23:b:6011:CLA:HBB1	23:b:6013:CLA:H192	1.85	0.58
23:b:6021:CLA:OBD	23:b:6022:CLA:HMC2	2.01	0.58
26:b:6045:BCR:C8	26:b:6045:BCR:C33	2.76	0.58
3:c:5163:PHE:CZ	3:c:5252:ILE:HG23	2.39	0.58
3:c:5318:LEU:CD2	3:c:5328:VAL:HG11	2.34	0.58
3:c:5466:VAL:HG23	4:d:5248:THR:HG22	1.85	0.58
23:c:6034:CLA:C9	23:c:6034:CLA:H143	2.29	0.58
4:d:5092:LEU:HD22	4:d:5104:TRP:CG	2.38	0.58
4:d:5274:VAL:CB	4:d:5275:PRO:CD	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:d:6050:BCR:H403	26:d:6050:BCR:C22	2.32	0.58
13:o:5132:VAL:HG23	13:o:5144:LEU:HD21	1.84	0.58
1:A:60:ILE:N	1:A:60:ILE:CD1	2.66	0.58
1:A:297:LEU:HD12	3:C:428:THR:HG21	1.85	0.58
24:A:1038:PHO:H92	23:D:1005:CLA:H192	1.85	0.58
24:A:1039:PHO:H203	24:A:1039:PHO:H141	1.86	0.58
2:B:80:ILE:HG13	2:B:80:ILE:O	2.04	0.58
2:B:113:TRP:HB2	26:B:1048:BCR:C37	2.29	0.58
2:B:460:LEU:CG	30:H:1058:DGD:HAG1	2.33	0.58
23:B:1010:CLA:C2D	23:B:1011:CLA:CMB	2.81	0.58
3:C:33:PHE:HD1	4:D:229:ALA:HB3	1.69	0.58
3:C:282:MET:O	3:C:286:ALA:HB2	2.04	0.58
23:C:1025:CLA:H202	23:C:1025:CLA:C15	2.27	0.58
4:D:20:ASP:HA	4:D:23:LYS:NZ	2.19	0.58
4:D:273:PHE:O	4:D:277:THR:HB	2.04	0.58
4:D:291:LEU:HD13	4:D:291:LEU:N	2.19	0.58
13:O:66:ILE:HD12	13:O:267:ALA:HB1	1.84	0.58
1:a:5199:GLN:OE1	30:c:6057:DGD:HBF1	2.03	0.58
1:a:5303:ASN:O	1:a:5304:HIS:HB2	2.02	0.58
23:a:6006:CLA:H171	26:d:6050:BCR:C40	2.28	0.58
27:a:6063:LHG:H312	23:c:6034:CLA:H143	1.85	0.58
2:b:5134:LYS:O	2:b:5135:MET:C	2.47	0.58
2:b:5343:PHE:CD2	2:b:5343:PHE:N	2.68	0.58
2:b:5394:VAL:HG23	2:b:5395:THR:N	2.18	0.58
23:c:6032:CLA:H193	23:c:6032:CLA:C15	2.33	0.58
4:d:5278:GLY:O	4:d:5279:LEU:C	2.46	0.58
12:m:5011:THR:HG22	12:m:5012:ALA:N	2.18	0.58
13:o:5065:ARG:NH1	13:o:5108:GLN:HB2	2.18	0.58
17:x:5011:THR:O	17:x:5012:ILE:CG2	2.50	0.58
1:A:150:PRO:O	1:A:151:LEU:C	2.46	0.58
1:A:190:HIS:O	1:A:192:ILE:N	2.36	0.58
1:A:248:ILE:O	1:A:251:ALA:HB3	2.04	0.58
23:A:1003:CLA:HBB1	23:A:1003:CLA:CMB	2.34	0.58
23:A:1003:CLA:CMD	23:D:1005:CLA:HBC1	2.34	0.58
23:B:1023:CLA:H101	23:B:1024:CLA:H13	1.86	0.58
3:C:70:PHE:O	3:C:74:HIS:ND1	2.37	0.58
3:C:362:ARG:HH11	3:C:362:ARG:HG3	1.68	0.58
3:C:463:SER:O	3:C:465:PRO:HD3	2.03	0.58
4:D:103:ARG:HH11	4:D:103:ARG:HG3	1.68	0.58
10:K:24:VAL:O	10:K:27:VAL:HG12	2.03	0.58
15:U:72:TYR:CB	15:U:73:PRO:HD3	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5215:HIS:HE1	4:d:5268:HIS:CD2	2.21	0.58
2:b:5267:PRO:O	2:b:5445:ARG:HD3	2.03	0.58
2:b:5444:PRO:HA	2:b:5447:TRP:HB2	1.84	0.58
3:c:5113:VAL:CG2	3:c:5114:VAL:N	2.66	0.58
3:c:5217:PRO:HG2	3:c:5218:PHE:H	1.67	0.58
4:d:5128:ARG:HH11	4:d:5128:ARG:CG	2.17	0.58
4:d:5274:VAL:HB	4:d:5275:PRO:CD	2.21	0.58
11:l:5036:PHE:CE1	12:m:5008:PHE:CA	2.86	0.58
18:y:5008:ALA:O	18:y:5012:ILE:HG22	2.04	0.58
24:A:1039:PHO:H93	4:D:118:GLY:HA3	1.86	0.58
2:B:5:TRP:CE2	2:B:6:TYR:HB3	2.39	0.58
2:B:263:THR:HB	2:B:448:ARG:HH22	1.69	0.58
3:C:155:ASN:O	3:C:156:LYS:C	2.47	0.58
4:D:52:THR:HG22	4:D:67:TYR:CE2	2.39	0.58
4:D:96:GLU:OE2	7:H:52:THR:HG22	2.03	0.58
26:T:6046:BCR:H312	26:T:6046:BCR:C4	2.30	0.58
26:T:6046:BCR:C19	26:b:6047:BCR:C36	2.82	0.58
15:U:73:PRO:HD2	16:V:109:ASP:CG	2.28	0.58
16:V:98:LEU:H	16:V:98:LEU:HD12	1.69	0.58
2:b:5124:ARG:CZ	2:b:5124:ARG:HB3	2.33	0.58
3:c:5095:LEU:N	3:c:5095:LEU:CD2	2.64	0.58
3:c:5367:GLU:HB2	3:c:5368:PRO:HD3	1.85	0.58
23:c:6034:CLA:H42	23:c:6034:CLA:CGA	2.33	0.58
4:d:5291:LEU:CD1	30:h:6058:DGD:HBN2	2.34	0.58
9:j:5019:MET:HE1	26:k:6051:BCR:H361	1.85	0.58
10:k:5039:VAL:HA	18:y:5018:ILE:CD1	2.33	0.58
13:o:5167:ASP:OD2	13:o:5167:ASP:N	2.36	0.58
13:o:5209:ALA:N	13:o:5212:ASN:ND2	2.52	0.58
13:o:5213:VAL:HG11	15:u:5039:LEU:CD1	2.22	0.58
15:u:5094:ILE:O	15:u:5097:LEU:HD13	2.03	0.58
18:y:5010:ILE:O	18:y:5013:ALA:HB3	2.03	0.58
1:A:237:TYR:C	1:A:237:TYR:CD2	2.81	0.58
1:A:307:ILE:CG1	1:A:308:ASP:H	2.13	0.58
23:B:1016:CLA:O1D	23:B:1016:CLA:H2A	2.03	0.58
23:B:1018:CLA:C1B	23:H:1017:CLA:CMB	2.81	0.58
23:C:1026:CLA:HBA2	23:C:1027:CLA:HAC1	1.84	0.58
30:C:1056:DGD:HB51	9:J:29:PHE:HE1	1.68	0.58
4:D:246:MET:HE1	4:D:264:LYS:N	2.18	0.58
5:E:21:VAL:C	5:E:23:HIS:H	2.12	0.58
14:T:10:PHE:C	14:T:12:CYS:N	2.61	0.58
1:a:5071:LEU:O	1:a:5075:ASN:CB	2.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5149:ALA:CB	1:a:5283:VAL:HG21	2.27	0.58
2:b:5017:ILE:O	2:b:5021:LEU:HB2	2.03	0.58
2:b:5065:ARG:CG	2:b:5066:LEU:N	2.67	0.58
2:b:5169:TYR:O	2:b:5170:GLY:C	2.46	0.58
2:b:5438:GLY:C	2:b:5439:ILE:HG12	2.29	0.58
23:b:6011:CLA:C12	23:b:6011:CLA:C9	2.77	0.58
23:b:6012:CLA:H102	23:b:6023:CLA:H11	1.85	0.58
23:b:6016:CLA:C14	23:d:6008:CLA:HHB	2.30	0.58
3:c:5160:ILE:HB	23:c:6031:CLA:CMD	2.33	0.58
3:c:5244:CYS:HA	23:c:6030:CLA:HMC1	1.85	0.58
23:c:6036:CLA:C17	26:z:6053:BCR:C37	2.77	0.58
23:c:6036:CLA:H141	26:z:6053:BCR:H373	1.85	0.58
5:e:5019:TYR:C	5:e:5021:VAL:H	2.12	0.58
5:e:5060:GLN:HE21	5:e:5062:SER:N	2.01	0.58
7:h:5038:PHE:CZ	7:h:5042:LEU:HD11	2.39	0.58
1:A:60:ILE:O	1:A:86:SER:HA	2.04	0.58
1:A:157:VAL:CG2	1:A:182:PHE:HE2	2.16	0.58
2:B:234:ILE:HD12	2:B:237:VAL:CG1	2.34	0.58
2:B:272:ARG:HG2	2:B:320:ALA:HB2	1.86	0.58
2:B:462:PHE:O	2:B:463:PHE:C	2.47	0.58
3:C:260:ALA:HB3	3:C:261:ARG:HH22	1.69	0.58
23:C:1032:CLA:HBB1	23:C:1032:CLA:CHC	2.32	0.58
23:C:1036:CLA:H141	26:Z:1053:BCR:H373	1.85	0.58
7:H:12:ARG:HD3	7:H:16:SER:HB2	1.86	0.58
12:M:9:ILE:HG12	12:m:5009:ILE:HG13	1.82	0.58
16:V:148:GLU:HA	16:V:148:GLU:OE2	2.03	0.58
1:a:5200:LEU:O	1:a:5282:GLY:HA3	2.04	0.58
1:a:5281:VAL:HG23	27:a:6063:LHG:H372	1.86	0.58
1:a:5322:ASN:HD21	3:c:5412:THR:HG22	1.67	0.58
23:a:6003:CLA:CMC	4:d:5182:LEU:HD13	2.33	0.58
2:b:5006:HIS:CG	23:b:6020:CLA:HBB2	2.38	0.58
2:b:5038:GLU:HA	2:b:5057:MET:HE1	1.86	0.58
2:b:5419:ARG:NH1	2:b:5419:ARG:HB3	2.19	0.58
23:b:6010:CLA:H41	7:h:5046:LEU:CA	2.34	0.58
23:b:6023:CLA:H101	23:b:6024:CLA:H13	1.86	0.58
3:c:5056:HIS:C	3:c:5058:GLY:N	2.58	0.58
4:d:5149:PRO:HA	4:d:5152:VAL:CG1	2.34	0.58
5:e:5016:SER:CB	5:e:5019:TYR:HB2	2.22	0.58
26:h:6049:BCR:C12	26:h:6049:BCR:H341	2.33	0.58
2:B:145:LEU:O	2:B:146:ALA:C	2.47	0.57
2:B:273:TYR:HA	2:B:276:ASP:OD2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:283:GLU:O	2:B:284:ILE:C	2.47	0.57
3:C:270:ALA:HB1	3:C:274:TYR:HE1	1.67	0.57
3:C:391:ARG:HH11	3:C:391:ARG:HG3	1.68	0.57
23:C:1025:CLA:H41	23:C:1025:CLA:CMB	2.33	0.57
5:E:34:GLY:HA2	6:F:32:PHE:CZ	2.39	0.57
5:E:34:GLY:HA3	6:F:32:PHE:CE2	2.38	0.57
9:J:30:TYR:C	9:J:32:ALA:H	2.12	0.57
10:K:28:ILE:HD11	26:K:1051:BCR:C10	2.32	0.57
13:O:85:LYS:CD	2:b:5402:GLU:HG2	2.34	0.57
1:a:5147:TYR:HA	1:a:5150:PRO:CG	2.34	0.57
1:a:5273:PHE:CZ	4:d:5222:LEU:HD23	2.39	0.57
1:a:5280:VAL:C	1:a:5283:VAL:CG1	2.77	0.57
23:a:6006:CLA:CAA	30:c:6057:DGD:HBN2	2.34	0.57
2:b:5042:PHE:CE1	2:b:5044:PRO:HA	2.39	0.57
2:b:5103:LEU:CD1	2:b:5103:LEU:C	2.77	0.57
2:b:5145:LEU:H	2:b:5207:ILE:HD11	1.67	0.57
3:c:5058:GLY:C	3:c:5125:LEU:HD13	2.28	0.57
10:k:5025:LEU:O	10:k:5028:ILE:HB	2.04	0.57
26:k:6052:BCR:C8	26:k:6052:BCR:C33	2.82	0.57
13:o:5237:ILE:HD13	13:o:5269:ILE:HD11	1.86	0.57
14:t:5001:MET:C	14:t:5003:THR:N	2.62	0.57
15:u:5072:TYR:CB	15:u:5073:PRO:CD	2.82	0.57
1:A:45:THR:O	1:A:49:VAL:HG23	2.04	0.57
1:A:58:VAL:HB	1:A:83:VAL:HG11	1.86	0.57
1:A:85:SER:OG	1:A:168:PHE:HB2	2.04	0.57
1:A:239:PHE:HE2	4:D:246:MET:O	1.88	0.57
1:A:275:LEU:O	4:D:211:CYS:O	2.21	0.57
23:A:1006:CLA:C18	26:D:1050:BCR:H292	2.34	0.57
2:B:154:GLY:HA2	2:B:199:VAL:HG13	1.85	0.57
23:B:1012:CLA:C11	23:B:1023:CLA:CGA	2.82	0.57
3:C:126:GLY:HA3	26:K:1052:BCR:H363	1.86	0.57
3:C:328:VAL:HG12	3:C:340:TYR:CG	2.38	0.57
23:C:1028:CLA:H41	30:C:1057:DGD:HA42	1.85	0.57
23:C:1037:CLA:H101	23:C:1037:CLA:C14	2.31	0.57
4:D:261:PHE:CZ	4:D:267:LEU:HA	2.39	0.57
10:K:18:PHE:HE2	20:Z:9:LEU:HD11	1.68	0.57
26:K:1052:BCR:C8	26:K:1052:BCR:C33	2.82	0.57
14:T:18:PHE:CG	26:T:6046:BCR:H343	2.37	0.57
26:T:6046:BCR:C13	26:b:6047:BCR:C38	2.82	0.57
16:V:59:PHE:CD2	16:V:63:CYS:SG	2.96	0.57
20:Z:16:SER:HB3	20:Z:47:TRP:HE1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:Z:33:TRP:O	20:Z:37:LYS:HB3	2.04	0.57
1:a:5035:VAL:HG13	26:a:6044:BCR:HC31	1.86	0.57
1:a:5087:ASN:O	1:a:5088:ALA:C	2.47	0.57
2:b:5135:MET:HB3	23:b:6023:CLA:CBC	2.33	0.57
2:b:5230:ASN:O	2:b:5232:GLU:N	2.37	0.57
2:b:5236:SER:O	2:b:5238:SER:N	2.37	0.57
23:b:6020:CLA:HBD	23:b:6020:CLA:HAA1	1.86	0.57
3:c:5048:LYS:HD2	3:c:5133:ALA:C	2.28	0.57
3:c:5181:PHE:C	3:c:5182:PHE:HD2	2.11	0.57
3:c:5447:ARG:O	3:c:5450:ALA:HB3	2.03	0.57
23:c:6028:CLA:H41	30:c:6057:DGD:HA42	1.85	0.57
30:c:6056:DGD:HB61	30:c:6056:DGD:HBT1	1.83	0.57
13:o:5092:VAL:HG23	13:o:5093:PRO:HD2	1.85	0.57
13:o:5178:ARG:HD3	13:o:5182:PHE:CD2	2.40	0.57
13:o:5205:GLU:HA	13:o:5208:LEU:HD13	1.85	0.57
20:z:5009:LEU:C	20:z:5009:LEU:HD22	2.30	0.57
1:A:46:ILE:O	1:A:50:ILE:HG13	2.03	0.57
1:A:304:HIS:NE2	16:V:163:TYR:O	2.37	0.57
2:B:5:TRP:CD1	2:B:6:TYR:H	2.21	0.57
2:B:27:THR:O	2:B:107:LEU:HD12	2.03	0.57
2:B:117:TYR:HB3	2:B:120:LEU:HD21	1.86	0.57
2:B:368:VAL:CG1	2:B:381:ILE:HB	2.34	0.57
3:C:346:THR:HG22	3:C:346:THR:O	2.03	0.57
5:E:38:VAL:CG2	6:F:36:ALA:HB1	2.34	0.57
11:L:17:LEU:O	11:L:21:LEU:N	2.31	0.57
12:M:34:LYS:HE3	11:l:5009:PRO:CB	2.35	0.57
1:a:5246:TYR:HE1	4:d:5264:LYS:NZ	2.00	0.57
23:a:6007:CLA:H72	8:i:5013:THR:CB	2.33	0.57
2:b:5017:ILE:HG12	23:b:6023:CLA:CMD	2.30	0.57
2:b:5312:ILE:HD11	2:b:5318:LYS:HD3	1.86	0.57
23:b:6015:CLA:C18	29:b:6060:MGE:H8A1	2.27	0.57
3:c:5305:THR:CG2	3:c:5308:GLU:H	2.15	0.57
23:c:6033:CLA:OBD	23:c:6033:CLA:CED	2.38	0.57
4:d:5257:PHE:HA	29:d:6062:MGE:H121	1.86	0.57
4:d:5299:ILE:O	4:d:5303:ILE:HG13	2.05	0.57
10:k:5017:ILE:N	10:k:5017:ILE:HD12	2.19	0.57
13:o:5118:SER:HA	13:o:5155:THR:CG2	2.35	0.57
13:o:5128:ASP:OD2	13:o:5128:ASP:N	2.32	0.57
16:v:5030:THR:OG1	16:v:5032:GLU:HG2	2.05	0.57
18:y:5020:LEU:HD11	20:z:5025:VAL:HG21	1.85	0.57
1:A:223:LEU:HD21	4:D:265:ARG:HD3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:31:ALA:HA	2:B:34:ALA:HB2	1.86	0.57
2:B:72:THR:C	2:B:93:PHE:HE2	2.13	0.57
2:B:234:ILE:HD12	2:B:237:VAL:HG11	1.86	0.57
2:B:392:PHE:O	2:B:393:GLU:HB2	2.05	0.57
23:B:1010:CLA:C4D	23:B:1011:CLA:HMB3	2.34	0.57
26:B:1047:BCR:C38	26:t:1046:BCR:C12	2.81	0.57
3:C:113:VAL:CG2	3:C:114:VAL:N	2.67	0.57
3:C:190:ALA:HB3	3:C:193:GLY:O	2.04	0.57
3:C:209:ILE:N	3:C:209:ILE:HD12	2.20	0.57
23:C:1033:CLA:C9	23:C:1033:CLA:H51	2.29	0.57
4:D:77:ALA:HB2	4:D:174:GLY:HA3	1.86	0.57
7:H:18:TYR:O	7:H:20:LYS:N	2.32	0.57
11:L:26:VAL:HG13	11:L:27:LEU:N	2.20	0.57
13:O:187:GLY:HA3	13:O:194:TYR:HB2	1.87	0.57
16:V:151:ILE:HG22	16:V:152:LEU:HD23	1.86	0.57
17:X:43:ILE:O	17:X:43:ILE:CG2	2.53	0.57
1:a:5131:TRP:HA	1:a:5134:SER:OG	2.03	0.57
1:a:5153:SER:HB3	23:a:6003:CLA:HED1	1.86	0.57
1:a:5273:PHE:CZ	4:d:5218:VAL:CG1	2.85	0.57
1:a:5300:PHE:HE2	3:c:5404:LEU:HD12	0.81	0.57
2:b:5443:SER:OG	2:b:5445:ARG:HB3	2.05	0.57
23:b:6009:CLA:C3B	26:h:6049:BCR:C38	2.82	0.57
23:b:6010:CLA:HMD1	23:b:6011:CLA:C10	2.35	0.57
23:b:6017:CLA:CMB	23:b:6018:CLA:C1B	2.81	0.57
4:d:5017:ILE:HG22	17:x:5041:SER:CB	2.32	0.57
4:d:5076:VAL:HG12	4:d:5077:ALA:N	2.19	0.57
4:d:5168:PHE:O	4:d:5170:ALA:N	2.37	0.57
4:d:5221:THR:HG23	4:d:5244:TYR:HB3	1.86	0.57
4:d:5257:PHE:CG	4:d:5257:PHE:O	2.57	0.57
31:e:6040:HEM:HMB2	31:e:6040:HEM:CBB	2.34	0.57
6:f:5023:VAL:O	6:f:5027:ALA:HB3	2.04	0.57
13:o:5034:ASP:O	13:o:5037:VAL:HG12	2.03	0.57
1:A:27:ARG:HB2	1:A:27:ARG:HH11	1.67	0.57
1:A:273:PHE:CD2	27:A:1063:LHG:HC42	2.39	0.57
1:A:330:VAL:HB	4:D:348:ARG:HB2	1.86	0.57
1:A:331:MET:SD	4:D:348:ARG:CA	2.90	0.57
2:B:359:MET:HE2	2:B:363:PHE:O	2.05	0.57
3:C:162:GLY:C	3:C:165:LEU:HB2	2.29	0.57
23:C:1037:CLA:HAB	26:Z:1053:BCR:C39	2.35	0.57
4:D:36:LEU:O	4:D:39:PRO:HD2	2.04	0.57
4:D:106:GLN:HE21	5:E:48:GLY:HA3	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:214:HIS:O	4:D:217:THR:HG22	2.04	0.57
12:M:32:GLN:HA	12:M:32:GLN:NE2	2.17	0.57
15:U:59:ASN:N	15:U:127:ARG:NH2	2.53	0.57
1:a:5188:ALA:HB2	1:a:5328:MET:HG3	1.84	0.57
2:b:5002:TRP:C	2:b:5004:ARG:N	2.61	0.57
2:b:5039:LEU:C	2:b:5041:THR:H	2.12	0.57
2:b:5122:ASP:OD2	2:b:5125:THR:HG22	2.05	0.57
23:b:6009:CLA:C1	26:h:6049:BCR:H351	2.34	0.57
23:b:6010:CLA:C4D	23:b:6011:CLA:HMB3	2.34	0.57
23:b:6023:CLA:HHC	23:b:6023:CLA:CBB	2.34	0.57
3:c:5290:VAL:HG21	3:c:5426:LEU:CB	2.29	0.57
3:c:5459:ILE:HG22	3:c:5460:ASP:N	2.19	0.57
5:e:5023:HIS:HA	5:e:5026:THR:OG1	2.04	0.57
9:j:5021:VAL:CG1	9:j:5022:ILE:H	2.12	0.57
2:B:442:ILE:HD11	13:O:200:LEU:HD23	1.87	0.57
3:C:249:ILE:O	3:C:249:ILE:CG2	2.53	0.57
11:L:15:THR:HA	11:L:18:TYR:HB2	1.86	0.57
13:O:156:GLN:HG2	13:O:167:ASP:OD2	2.05	0.57
15:U:82:ASN:HD21	15:U:94:ILE:HG23	1.68	0.57
16:V:130:MET:HA	16:V:133:LEU:HD13	1.87	0.57
2:b:5145:LEU:CA	2:b:5207:ILE:HD11	2.34	0.57
23:b:6019:CLA:H91	29:d:6061:MGE:H8A1	1.83	0.57
3:c:5036:TRP:CG	3:c:5037:ALA:H	2.22	0.57
3:c:5131:TYR:C	3:c:5133:ALA:N	2.60	0.57
3:c:5266:TRP:CD1	3:c:5266:TRP:H	2.22	0.57
23:c:6032:CLA:CAB	23:c:6034:CLA:CMC	2.83	0.57
23:c:6037:CLA:HAB	26:z:6053:BCR:C39	2.35	0.57
30:c:6056:DGD:CEB	30:c:6056:DGD:HBT2	2.35	0.57
4:d:5103:ARG:NH1	4:d:5106:GLN:OE1	2.37	0.57
7:h:5014:LEU:HD12	7:h:5014:LEU:N	2.19	0.57
13:o:5071:LEU:HB3	13:o:5241:PHE:CE2	2.39	0.57
13:o:5150:ASN:HB2	13:o:5173:ASN:HD22	1.69	0.57
1:A:166:GLY:HA3	3:C:357:ARG:NH1	2.19	0.57
23:A:1003:CLA:C16	24:A:1038:PHO:C9	2.57	0.57
2:B:454:ALA:O	2:B:458:PHE:HB2	2.05	0.57
3:C:315:MET:SD	3:C:319:ILE:HD11	2.45	0.57
23:C:1026:CLA:C4	23:C:1026:CLA:C7	2.80	0.57
23:C:1035:CLA:H151	20:Z:20:VAL:HG13	1.87	0.57
4:D:183:LEU:N	4:D:183:LEU:HD23	2.19	0.57
5:E:22:ILE:HA	5:E:25:ILE:HD12	1.86	0.57
8:I:30:ARG:HA	8:I:30:ARG:CZ	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:O:59:ASP:O	13:O:60:SER:HB3	2.05	0.57
13:O:148:VAL:HG11	13:O:151:LEU:HD22	1.87	0.57
15:U:98:THR:O	15:U:101:GLN:N	2.38	0.57
2:b:5423:PHE:HZ	13:o:5201:PRO:HB3	1.70	0.57
2:b:5461:PHE:CD1	23:b:6019:CLA:HBC1	2.40	0.57
23:b:6010:CLA:CAD	23:b:6010:CLA:CED	2.79	0.57
3:c:5134:ILE:CG2	20:z:5027:TYR:HB2	2.35	0.57
23:c:6032:CLA:CED	23:c:6032:CLA:C2A	2.33	0.57
4:d:5286:VAL:O	4:d:5289:LEU:HB2	2.04	0.57
23:d:6005:CLA:C9	24:d:6038:PHO:HHB	2.34	0.57
13:o:5133:THR:HG23	13:o:5143:PRO:HB3	1.85	0.57
13:o:5209:ALA:N	13:o:5212:ASN:HD22	2.03	0.57
1:A:113:GLN:O	1:A:116:ILE:HG22	2.05	0.57
1:A:149:ALA:HB2	1:A:280:VAL:HG13	1.86	0.57
1:A:161:TYR:HA	1:A:294:ALA:HB1	1.85	0.57
1:A:340:PRO:HD3	15:U:133:TYR:CE2	2.40	0.57
23:A:1006:CLA:HHC	23:A:1006:CLA:CBB	2.29	0.57
24:A:1038:PHO:HAC2	4:D:209:LEU:HA	1.85	0.57
2:B:66:MET:SD	23:B:1013:CLA:CED	2.93	0.57
2:B:106:LEU:HD11	26:B:1048:BCR:H352	1.86	0.57
2:B:122:LEU:HB2	7:H:12:ARG:HB2	1.87	0.57
2:B:398:THR:HA	2:B:417:VAL:HG21	1.87	0.57
2:B:472:ARG:HG2	2:B:479:PHE:CZ	2.39	0.57
23:B:1010:CLA:C3D	23:B:1011:CLA:HMB2	2.35	0.57
3:C:261:ARG:N	3:C:261:ARG:CZ	2.68	0.57
3:C:336:GLY:O	13:O:131:PRO:HG3	2.05	0.57
30:C:1056:DGD:CEB	30:C:1056:DGD:HBT2	2.35	0.57
4:D:88:SER:HA	7:H:50:ASN:ND2	2.20	0.57
4:D:235:PHE:CZ	4:D:243:THR:CG2	2.87	0.57
5:E:19:TYR:O	5:E:21:VAL:N	2.38	0.57
11:L:30:LEU:CD2	11:L:31:PHE:N	2.68	0.57
17:X:12:ILE:HG13	17:X:12:ILE:O	2.05	0.57
2:b:5003:TYR:O	23:b:6019:CLA:HAA2	2.04	0.57
2:b:5219:PRO:HD2	23:b:6017:CLA:HED2	1.86	0.57
2:b:5370:LYS:C	2:b:5372:GLY:N	2.60	0.57
3:c:5040:ALA:HA	23:c:6033:CLA:HMC2	1.85	0.57
3:c:5046:SER:HB3	3:c:5049:LEU:HD23	1.87	0.57
3:c:5052:ALA:O	3:c:5055:ALA:HB3	2.04	0.57
3:c:5199:ILE:HD12	3:c:5199:ILE:N	2.17	0.57
3:c:5425:TRP:O	3:c:5428:THR:HG23	2.04	0.57
23:c:6025:CLA:C17	23:c:6031:CLA:HMB2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:c:6037:CLA:H101	23:c:6037:CLA:C14	2.31	0.57
4:d:5152:VAL:CG1	4:d:5153:PHE:N	2.68	0.57
4:d:5209:LEU:HD13	25:d:6042:PQ9:H192	1.87	0.57
11:l:5036:PHE:HZ	12:m:5008:PHE:HB2	1.67	0.57
13:o:5142:ILE:HD12	13:o:5142:ILE:N	2.19	0.57
15:u:5062:ILE:CG2	15:u:5063:ALA:N	2.68	0.57
20:z:5049:ALA:O	20:z:5052:LEU:N	2.38	0.57
1:A:81:ALA:HB1	1:A:174:LEU:O	2.05	0.57
1:A:324:ALA:O	4:D:325:ILE:HG23	2.05	0.57
23:A:1006:CLA:C12	30:C:1057:DGD:HBG1	2.29	0.57
23:A:1006:CLA:CAA	30:C:1057:DGD:HBN2	2.34	0.57
2:B:118:TRP:CD1	2:B:118:TRP:H	2.23	0.57
2:B:135:LEU:H	2:B:135:LEU:CD1	2.05	0.57
23:B:1016:CLA:H202	23:D:1008:CLA:C3A	2.35	0.57
3:C:61:VAL:HG21	3:C:125:LEU:CD1	2.35	0.57
3:C:164:HIS:ND1	23:C:1031:CLA:OBD	2.37	0.57
3:C:189:TRP:CD1	3:C:295:THR:HG22	2.39	0.57
3:C:213:LEU:HG	3:C:214:LEU:N	2.19	0.57
4:D:92:LEU:HD22	4:D:104:TRP:CG	2.40	0.57
4:D:152:VAL:HG13	4:D:153:PHE:N	2.19	0.57
4:D:180:ARG:C	4:D:180:ARG:CD	2.77	0.57
8:I:15:PHE:O	8:I:16:VAL:C	2.47	0.57
13:O:225:LEU:HD23	13:O:265:PHE:CE1	2.40	0.57
14:T:10:PHE:O	14:T:12:CYS:N	2.37	0.57
31:V:1041:HEM:HHD	31:V:1041:HEM:HBC2	1.87	0.57
1:a:5099:ALA:O	1:a:5101:SER:N	2.38	0.57
23:a:6003:CLA:HBB1	23:a:6003:CLA:CMB	2.34	0.57
2:b:5255:TYR:CD2	30:h:6058:DGD:HD1	2.40	0.57
3:c:5400:PRO:C	3:c:5401:LEU:HD12	2.30	0.57
23:c:6034:CLA:H102	23:c:6034:CLA:O1A	2.05	0.57
23:c:6035:CLA:C13	10:k:5032:PHE:CE1	2.88	0.57
1:A:162:PRO:O	1:A:165:GLN:O	2.22	0.57
1:A:314:ILE:HD12	4:D:58:TRP:CZ3	2.39	0.57
2:B:426:PHE:CZ	13:O:201:PRO:HB3	2.36	0.57
23:B:1009:CLA:C1	26:H:1049:BCR:H351	2.34	0.57
23:B:1011:CLA:HBB1	23:B:1013:CLA:H192	1.85	0.57
23:C:1034:CLA:H42	23:C:1034:CLA:CGA	2.34	0.57
4:D:36:LEU:HD11	4:D:120:PHE:HB3	1.87	0.57
5:E:44:TYR:CD2	5:E:51:ARG:NE	2.73	0.57
16:V:81:ARG:HD3	16:V:157:GLY:CA	2.34	0.57
16:V:95:ILE:O	16:V:99:VAL:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5267:ASN:O	1:a:5270:SER:OG	2.21	0.57
1:a:5324:ALA:CA	4:d:5325:ILE:HG23	2.35	0.57
23:a:6006:CLA:CED	30:c:6057:DGD:CDB	2.78	0.57
24:a:6039:PHO:H141	24:a:6039:PHO:H203	1.86	0.57
2:b:5100:LEU:HD11	2:b:5104:LEU:CD1	2.35	0.57
2:b:5129:ALA:CB	7:h:5018:TYR:CD2	2.87	0.57
23:b:6010:CLA:C3D	23:b:6011:CLA:HMB2	2.35	0.57
26:b:6045:BCR:H403	26:b:6045:BCR:C22	2.34	0.57
3:c:5172:ALA:CB	3:c:5241:GLY:HA2	2.35	0.57
3:c:5306:GLY:N	3:c:5400:PRO:HG2	2.20	0.57
23:c:6034:CLA:C4	23:c:6034:CLA:CGA	2.83	0.57
23:c:6035:CLA:C13	10:k:5032:PHE:CZ	2.86	0.57
4:d:5077:ALA:HA	4:d:5173:PHE:O	2.05	0.57
6:f:5032:PHE:C	6:f:5032:PHE:CD2	2.80	0.57
10:k:5028:ILE:CG2	10:k:5029:PRO:HD3	2.34	0.57
13:o:5069:LEU:HD12	13:o:5070:CYS:H	1.69	0.57
18:y:5001:ILE:C	18:y:5001:ILE:HD13	2.30	0.57
1:A:31:GLY:O	1:A:34:GLY:N	2.39	0.56
1:A:33:PHE:CE1	8:I:23:PHE:HE2	2.23	0.56
2:B:106:LEU:C	2:B:106:LEU:CD1	2.78	0.56
2:B:219:VAL:CG1	2:B:220:ARG:N	2.67	0.56
2:B:368:VAL:HG21	2:B:421:ALA:HB1	1.87	0.56
2:B:448:ARG:HH11	2:B:448:ARG:CB	2.17	0.56
3:C:204:LEU:HD22	3:C:204:LEU:N	2.20	0.56
3:C:245:ILE:C	3:C:247:GLY:H	2.12	0.56
3:C:311:GLN:NE2	3:C:351:PHE:CD2	2.69	0.56
4:D:23:LYS:HA	4:D:29:PHE:HE1	1.69	0.56
4:D:105:CYS:SG	5:E:47:PHE:HB3	2.45	0.56
4:D:262:SER:O	4:D:263:ASN:HB3	2.03	0.56
31:E:1040:HEM:CBC	6:F:19:ARG:HH12	2.17	0.56
1:a:5210:LEU:HG	1:a:5211:PHE:CD2	2.40	0.56
2:b:5370:LYS:O	2:b:5372:GLY:N	2.38	0.56
2:b:5453:ALA:CA	30:h:6058:DGD:HBG2	2.34	0.56
2:b:5479:ILE:HD13	4:d:5138:VAL:HG12	1.87	0.56
3:c:5084:GLN:HB2	3:c:5086:LEU:HD13	1.87	0.56
3:c:5098:GLY:O	3:c:5105:VAL:HA	2.05	0.56
3:c:5332:GLN:O	3:c:5333:GLY:O	2.23	0.56
4:d:5039:PRO:O	4:d:5042:TYR:HB3	2.05	0.56
4:d:5088:SER:C	4:d:5090:LEU:H	2.13	0.56
4:d:5209:LEU:HD13	25:d:6042:PQ9:C19	2.35	0.56
11:l:5024:ILE:CD1	12:m:5018:PRO:HB2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:90:GLY:CA	1:A:167:SER:CB	2.81	0.56
1:A:131:TRP:C	1:A:131:TRP:CD2	2.83	0.56
1:A:140:ARG:NH2	27:A:1063:LHG:C1	2.68	0.56
2:B:105:GLY:HA3	26:B:1047:BCR:H282	1.85	0.56
2:B:174:LEU:N	2:B:266:GLU:OE1	2.38	0.56
3:C:97:TRP:HE1	3:C:178:LYS:HE2	1.70	0.56
3:C:224:ILE:HD13	3:C:224:ILE:N	2.20	0.56
7:H:48:ILE:CG1	7:H:53:LEU:HD23	2.35	0.56
13:O:147:THR:OG1	13:O:148:VAL:N	2.38	0.56
14:T:1:MET:O	14:T:2:GLU:C	2.47	0.56
15:U:71:LEU:HD11	15:U:108:ASN:ND2	2.21	0.56
16:V:159:GLY:HA2	16:V:163:TYR:HE1	1.71	0.56
1:a:5071:LEU:C	1:a:5073:TYR:H	2.13	0.56
1:a:5124:SER:HA	1:a:5151:LEU:CD2	2.35	0.56
1:a:5174:LEU:HD23	1:a:5174:LEU:N	2.21	0.56
1:a:5340:PRO:HD3	15:u:5133:TYR:CE2	2.40	0.56
2:b:5024:THR:C	23:b:6013:CLA:HBC1	2.30	0.56
2:b:5063:MET:HG2	23:b:6013:CLA:CED	2.36	0.56
2:b:5095:LEU:O	2:b:5096:ALA:C	2.48	0.56
2:b:5312:ILE:HD11	2:b:5318:LYS:CG	2.35	0.56
2:b:5359:PHE:CZ	4:d:5164:GLN:HG2	2.40	0.56
2:b:5388:SER:HB3	2:b:5391:GLN:NE2	2.19	0.56
2:b:5450:PHE:O	2:b:5453:ALA:CB	2.52	0.56
23:b:6011:CLA:C20	7:h:5038:PHE:CE2	2.80	0.56
23:b:6021:CLA:HAA2	23:b:6021:CLA:HBD	1.87	0.56
23:b:6022:CLA:O1A	23:b:6022:CLA:C4D	2.53	0.56
3:c:5236:GLY:O	3:c:5239:TRP:N	2.38	0.56
23:c:6027:CLA:HBC3	23:c:6027:CLA:CMC	2.35	0.56
4:d:5195:PRO:HG3	11:l:5034:TYR:CD2	2.40	0.56
11:l:5031:PHE:O	11:l:5035:PHE:CD1	2.57	0.56
13:o:5180:ALA:CB	13:o:5191:ALA:HB2	2.35	0.56
20:z:5037:LYS:HD3	20:z:5038:GLN:N	2.20	0.56
1:A:41:LEU:HD12	24:A:1038:PHO:C5	2.35	0.56
1:A:104:GLU:OE2	13:O:99:ARG:NH1	2.38	0.56
1:A:106:LEU:HD21	26:A:1044:BCR:C38	2.36	0.56
1:A:116:ILE:HD11	1:A:158:PHE:CB	2.35	0.56
1:A:196:PRO:C	1:A:199:GLN:HG2	2.31	0.56
1:A:269:ARG:HH11	4:D:231:THR:HG23	1.70	0.56
1:A:284:TRP:O	1:A:287:ALA:HB3	2.05	0.56
2:B:206:GLY:O	2:B:210:ILE:HG12	2.05	0.56
2:B:257:TRP:CZ2	4:D:291:LEU:HA	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:259:GLY:HA2	7:H:62:TRP:CZ2	2.40	0.56
2:B:321:LYS:NZ	2:B:321:LYS:HB3	2.21	0.56
23:B:1011:CLA:HAA1	23:B:1011:CLA:HBD	1.88	0.56
23:B:1020:CLA:HAA1	23:B:1020:CLA:HBD	1.86	0.56
23:B:1021:CLA:OBD	23:B:1022:CLA:HMC2	2.01	0.56
29:B:1060:MGE:CBB	29:B:1060:MGE:CFB	2.36	0.56
29:B:1060:MGE:O2D	29:B:1060:MGE:C3G	2.53	0.56
3:C:250:TRP:O	3:C:254:THR:HB	2.05	0.56
3:C:297:TYR:OH	23:C:1026:CLA:O1D	2.23	0.56
3:C:343:ARG:HG3	3:C:343:ARG:NH1	2.20	0.56
23:C:1029:CLA:HBC3	23:C:1029:CLA:CHD	2.35	0.56
4:D:201:VAL:HG13	23:D:1004:CLA:HMB1	1.87	0.56
12:M:8:PHE:O	12:M:10:ALA:N	2.38	0.56
13:O:36:ILE:H	13:O:36:ILE:HD12	1.70	0.56
13:O:65:ARG:HE	13:O:110:GLU:CA	2.17	0.56
13:O:133:THR:HG22	13:O:134:VAL:H	1.70	0.56
14:T:2:GLU:O	14:T:6:TYR:HD2	1.86	0.56
14:T:2:GLU:HA	14:T:5:THR:HB	1.87	0.56
14:T:14:ILE:HG23	26:T:6046:BCR:H10C	1.87	0.56
15:U:80:VAL:HG13	15:U:127:ARG:HD3	1.87	0.56
16:V:85:LEU:HD22	16:V:92:ARG:O	2.05	0.56
16:V:162:TYR:O	16:V:163:TYR:HB2	2.05	0.56
17:X:24:LEU:HD12	17:X:25:SER:N	2.20	0.56
18:Y:35:ILE:C	18:Y:35:ILE:HD12	2.30	0.56
1:a:5033:PHE:HB2	1:a:5129:ARG:HB2	1.87	0.56
1:a:5091:LEU:HD11	1:a:5162:PRO:O	2.03	0.56
1:a:5124:SER:O	1:a:5127:MET:HB3	2.05	0.56
1:a:5220:THR:CG2	4:d:5265:ARG:NH2	2.68	0.56
1:a:5252:HIS:C	1:a:5252:HIS:ND1	2.63	0.56
1:a:5316:THR:O	4:d:5063:LEU:HD11	2.05	0.56
24:a:6039:PHO:HBC1	4:d:5275:PRO:CB	2.36	0.56
2:b:5063:MET:SD	23:b:6013:CLA:CED	2.93	0.56
2:b:5107:ALA:CB	23:b:6024:CLA:HMB2	2.35	0.56
2:b:5110:TRP:HE3	2:b:5111:HIS:CD2	2.23	0.56
2:b:5246:ALA:HB2	23:b:6012:CLA:HBC2	1.88	0.56
2:b:5389:PHE:CG	2:b:5394:VAL:HG11	2.40	0.56
2:b:5457:LEU:HG	30:h:6058:DGD:HAG3	1.86	0.56
23:b:6016:CLA:C20	23:d:6008:CLA:HMA1	2.35	0.56
23:b:6016:CLA:H202	23:d:6008:CLA:C3A	2.35	0.56
3:c:5089:ILE:HG23	3:c:5111:PHE:CE2	2.40	0.56
3:c:5097:TRP:CZ3	3:c:5113:VAL:HG21	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5128:GLY:HA3	23:c:6037:CLA:HAC2	1.86	0.56
3:c:5171:GLY:O	3:c:5173:LEU:N	2.38	0.56
3:c:5199:ILE:H	3:c:5199:ILE:CD1	2.15	0.56
23:c:6026:CLA:O1A	23:c:6026:CLA:C5	2.29	0.56
26:c:6054:BCR:H382	26:c:6054:BCR:C23	2.24	0.56
4:d:5050:THR:HA	6:f:5033:PHE:HZ	1.68	0.56
4:d:5088:SER:HA	7:h:5050:ASN:ND2	2.20	0.56
4:d:5214:HIS:O	4:d:5217:THR:HG22	2.05	0.56
5:e:5027:ILE:HB	5:e:5028:PRO:CD	2.18	0.56
11:l:5025:LEU:HD11	14:t:5012:CYS:HB2	1.87	0.56
13:o:5215:ARG:HD2	13:o:5215:ARG:N	2.19	0.56
16:v:5062:ALA:CB	31:v:6041:HEM:HBB1	2.31	0.56
20:z:5010:ALA:C	20:z:5013:VAL:HG12	2.31	0.56
23:A:1006:CLA:HAA2	30:C:1057:DGD:CFB	2.36	0.56
2:B:31:ALA:CB	2:B:103:LEU:HD12	2.34	0.56
2:B:105:GLY:CA	26:B:1047:BCR:H282	2.36	0.56
2:B:159:THR:HG21	2:B:161:LEU:CD2	2.35	0.56
3:C:261:ARG:NH1	3:C:261:ARG:H	2.04	0.56
4:D:92:LEU:CD1	4:D:99:GLY:HA2	2.34	0.56
4:D:93:TRP:CE3	4:D:93:TRP:N	2.71	0.56
4:D:103:ARG:HG3	4:D:103:ARG:NH1	2.20	0.56
4:D:199:MET:SD	4:D:281:MET:HG2	2.45	0.56
6:F:37:ILE:CG2	9:J:28:PHE:CE1	2.87	0.56
8:I:26:GLY:O	8:I:30:ARG:HG2	2.05	0.56
13:O:216:PHE:CD1	13:O:216:PHE:C	2.84	0.56
1:a:5060:ILE:HG12	1:a:5061:ASP:N	2.02	0.56
1:a:5116:ILE:HD11	1:a:5158:PHE:CB	2.35	0.56
1:a:5220:THR:CG2	4:d:5265:ARG:HH22	2.18	0.56
1:a:5258:LEU:O	4:d:5128:ARG:NH2	2.33	0.56
2:b:5052:MET:O	2:b:5057:MET:HB2	2.04	0.56
23:b:6016:CLA:H202	23:d:6008:CLA:H3A	1.88	0.56
23:b:6021:CLA:HBB1	23:b:6021:CLA:CMB	2.36	0.56
3:c:5079:LYS:HG3	3:c:5080:PRO:HD2	1.87	0.56
3:c:5133:ALA:C	3:c:5134:ILE:HD12	2.30	0.56
3:c:5349:ILE:CG2	3:c:5375:LEU:HB2	2.34	0.56
3:c:5382:ASN:O	3:c:5384:ILE:N	2.38	0.56
23:c:6027:CLA:C17	26:z:6053:BCR:H10C	2.35	0.56
29:d:6062:MGE:H231	11:l:5026:VAL:HG21	1.86	0.56
13:o:5218:LEU:HD13	15:u:5119:THR:CG2	2.35	0.56
20:z:5015:LEU:HD11	20:z:5043:GLY:CA	2.36	0.56
1:A:95:PRO:HD2	1:A:98:GLU:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:SER:O	1:A:104:GLU:N	2.38	0.56
1:A:161:TYR:HB3	1:A:162:PRO:HD3	1.88	0.56
1:A:188:ALA:HB2	1:A:328:MET:HE2	1.87	0.56
2:B:18:ARG:NH1	11:L:4:ASN:ND2	2.53	0.56
2:B:23:HIS:HE1	23:B:1018:CLA:H193	1.70	0.56
2:B:117:TYR:O	2:B:120:LEU:HD21	2.05	0.56
2:B:156:PHE:HB3	2:B:162:PHE:HB3	1.88	0.56
2:B:454:ALA:CB	23:B:1015:CLA:CBB	2.83	0.56
23:B:1021:CLA:HAA2	23:B:1021:CLA:HBD	1.87	0.56
3:C:304:PRO:HB3	3:C:395:TYR:HD2	1.66	0.56
23:C:1033:CLA:H192	23:C:1033:CLA:H151	0.71	0.56
23:C:1036:CLA:H172	26:Z:1053:BCR:C37	2.13	0.56
4:D:139:ARG:HH11	4:D:139:ARG:HG3	1.68	0.56
13:O:178:ARG:HD3	13:O:182:PHE:CG	2.41	0.56
15:U:100:ARG:O	15:U:103:GLN:HB3	2.04	0.56
16:V:107:THR:C	16:V:108:TYR:O	2.43	0.56
1:a:5130:GLN:HG2	1:a:5144:CYS:CA	2.35	0.56
1:a:5157:VAL:HG13	1:a:5157:VAL:O	2.06	0.56
1:a:5215:HIS:CD2	1:a:5272:HIS:CE1	2.85	0.56
2:b:5328:ASN:OD1	2:b:5333:ILE:HA	2.06	0.56
23:b:6011:CLA:CMD	23:b:6014:CLA:HMB2	2.35	0.56
23:b:6016:CLA:HBA1	23:b:6016:CLA:HBD	1.88	0.56
3:c:5060:ILE:HG12	23:c:6027:CLA:HMD1	1.87	0.56
3:c:5166:ILE:CD1	3:c:5245:ILE:O	2.54	0.56
3:c:5342:MET:HE3	3:c:5352:GLY:CA	2.34	0.56
3:c:5473:ASP:HB3	14:t:5026:PRO:HG3	1.88	0.56
23:c:6035:CLA:HBD	23:c:6035:CLA:HAA1	1.87	0.56
4:d:5103:ARG:HH22	5:e:5080:LEU:CD1	2.18	0.56
12:m:5017:VAL:O	12:m:5020:VAL:HG12	2.04	0.56
12:m:5022:LEU:C	12:m:5024:ILE:H	2.13	0.56
17:x:5025:SER:O	17:x:5028:VAL:HG12	2.06	0.56
2:B:92:SER:C	2:B:94:GLU:H	2.13	0.56
2:B:108:PHE:HD2	2:B:109:LEU:HD23	1.71	0.56
23:B:1014:CLA:CHD	23:B:1014:CLA:CBC	2.78	0.56
3:C:265:ILE:HG13	3:C:449:ARG:HE	1.69	0.56
3:C:318:LEU:CG	3:C:328:VAL:HG11	2.36	0.56
30:C:1057:DGD:HAG2	30:C:1057:DGD:HBV1	1.87	0.56
4:D:274:VAL:HG13	25:D:1042:PQ9:C27	2.35	0.56
7:H:12:ARG:HG3	7:H:15:ASN:HB3	1.88	0.56
13:O:66:ILE:HG13	13:O:66:ILE:O	2.04	0.56
1:a:5078:ILE:HD13	1:a:5078:ILE:N	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5152:ALA:O	1:a:5155:PHE:HB2	2.04	0.56
2:b:5121:ARG:HE	2:b:5128:PRO:HB3	1.70	0.56
2:b:5140:LEU:HD12	2:b:5210:GLY:N	2.21	0.56
23:b:6015:CLA:NA	23:b:6015:CLA:CBA	2.46	0.56
3:c:5137:PRO:HB2	3:c:5143:TYR:CD2	2.41	0.56
3:c:5254:THR:HG22	3:c:5255:THR:N	2.19	0.56
4:d:5144:ILE:CG2	4:d:5145:ALA:N	2.68	0.56
4:d:5199:MET:HG2	25:d:6042:PQ9:H351	1.87	0.56
5:e:5035:TRP:HD1	5:e:5039:SER:HB2	1.71	0.56
1:A:60:ILE:CD1	1:A:60:ILE:H	2.19	0.56
1:A:91:LEU:HD21	1:A:163:ILE:HA	1.87	0.56
1:A:273:PHE:CE2	1:A:277:ALA:HB2	2.41	0.56
23:B:1011:CLA:CMD	23:B:1014:CLA:HMB2	2.35	0.56
23:B:1012:CLA:O1A	23:B:1013:CLA:CHA	2.53	0.56
23:B:1023:CLA:H122	23:B:1023:CLA:C17	2.25	0.56
3:C:48:LYS:HB2	3:C:48:LYS:HZ2	1.68	0.56
3:C:379:LYS:HA	3:C:383:ASP:HB2	1.87	0.56
3:C:441:HIS:HD2	3:C:442:LEU:HD23	1.69	0.56
23:C:1034:CLA:C4	23:C:1034:CLA:O2A	2.53	0.56
23:C:1035:CLA:H172	20:Z:20:VAL:HA	1.88	0.56
8:I:6:ILE:HG12	8:I:7:THR:N	2.21	0.56
13:O:37:VAL:O	13:O:37:VAL:HG13	2.06	0.56
13:O:85:LYS:HG3	13:O:86:ARG:H	1.71	0.56
16:V:90:PRO:HG2	16:V:92:ARG:CZ	2.36	0.56
18:Y:43:ARG:O	20:Z:30:PRO:HD2	2.06	0.56
1:a:5070:SER:O	1:a:5074:GLY:O	2.23	0.56
1:a:5191:ASN:HB3	1:a:5194:MET:HB2	1.86	0.56
1:a:5247:ASN:HD22	1:a:5250:ALA:N	2.03	0.56
2:b:5021:LEU:HD22	2:b:5108:ALA:HB2	1.88	0.56
2:b:5169:TYR:O	2:b:5171:LEU:HB2	2.05	0.56
2:b:5281:ILE:O	2:b:5302:ILE:HD11	2.06	0.56
2:b:5447:TRP:HB3	23:b:6015:CLA:CMB	2.35	0.56
2:b:5457:LEU:HG	30:h:6058:DGD:HAG1	1.87	0.56
23:b:6012:CLA:C11	23:b:6023:CLA:CGA	2.83	0.56
4:d:5093:TRP:HD1	17:x:5018:GLY:O	1.87	0.56
5:e:5020:TRP:CH2	9:j:5013:VAL:HA	2.41	0.56
10:k:5031:LEU:HB3	26:k:6051:BCR:C13	2.36	0.56
12:m:5032:GLN:HE21	12:m:5032:GLN:CA	2.12	0.56
1:A:94:TYR:CE2	13:O:99:ARG:NH1	2.74	0.56
1:A:183:MET:HB3	23:A:1003:CLA:CBC	2.34	0.56
23:A:1003:CLA:H172	24:A:1038:PHO:C4	2.28	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A:1038:PHO:HHB	23:D:1005:CLA:C9	2.34	0.56
2:B:113:TRP:HD1	26:B:1048:BCR:H373	1.67	0.56
2:B:141:ILE:HG23	2:B:217:ILE:CD1	2.35	0.56
23:B:1016:CLA:C20	23:D:1008:CLA:HMA1	2.35	0.56
23:B:1021:CLA:HBB1	23:B:1021:CLA:CMB	2.36	0.56
3:C:94:THR:HG22	3:C:298:PRO:HG3	1.88	0.56
3:C:459:ILE:HB	4:D:223:PHE:CE1	2.41	0.56
23:C:1028:CLA:HMA1	23:C:1028:CLA:HBA1	1.88	0.56
23:C:1029:CLA:HAA1	23:C:1029:CLA:CBD	2.36	0.56
4:D:129:GLN:OE1	4:D:143:ALA:HA	2.05	0.56
4:D:291:LEU:C	4:D:293:LEU:N	2.56	0.56
5:E:8:ARG:HA	5:E:8:ARG:HE	1.71	0.56
31:E:1040:HEM:HMB2	31:E:1040:HEM:CBB	2.34	0.56
8:I:4:LEU:HD12	8:I:4:LEU:O	2.06	0.56
16:V:36:VAL:HG23	16:V:37:PRO:N	2.21	0.56
17:X:13:THR:HG23	17:X:14:PRO:CD	2.36	0.56
1:a:5328:MET:SD	4:d:5325:ILE:CD1	2.94	0.56
1:a:5341:LEU:HD12	3:c:5396:MET:HE3	1.87	0.56
2:b:5002:TRP:CE3	23:b:6019:CLA:H42	2.35	0.56
2:b:5190:TYR:CE1	2:b:5256:GLY:HA3	2.41	0.56
2:b:5312:ILE:HD11	2:b:5318:LYS:CD	2.36	0.56
3:c:5303:GLY:C	3:c:5423:ARG:HD2	2.30	0.56
3:c:5435:PHE:O	3:c:5436:PHE:C	2.46	0.56
3:c:5455:PHE:CZ	8:i:5032:PRO:HD2	2.41	0.56
3:c:5473:ASP:OXT	14:t:5027:PRO:HD2	2.05	0.56
23:c:6028:CLA:H42	30:c:6056:DGD:HB32	1.88	0.56
4:d:5186:GLN:NE2	4:d:5322:ASN:HD21	2.04	0.56
6:f:5024:HIS:O	6:f:5028:VAL:HG12	2.05	0.56
7:h:5012:ARG:HB3	7:h:5012:ARG:HH11	1.69	0.56
10:k:5017:ILE:O	10:k:5020:PRO:HD2	2.06	0.56
11:l:5021:LEU:HA	11:l:5024:ILE:CG2	2.35	0.56
13:o:5032:THR:O	13:o:5036:ILE:HD12	2.05	0.56
17:x:5033:THR:HG23	17:x:5034:PHE:N	2.19	0.56
1:A:22:THR:HA	1:A:29:TYR:HE1	1.70	0.56
1:A:239:PHE:CZ	4:D:247:VAL:HG13	2.41	0.56
2:B:12:LEU:HD13	2:B:19:LEU:HA	1.86	0.56
2:B:443:PHE:HD2	2:B:443:PHE:O	1.88	0.56
23:B:1010:CLA:HMD1	23:B:1011:CLA:C10	2.35	0.56
23:B:1012:CLA:H102	23:B:1023:CLA:H11	1.86	0.56
23:B:1022:CLA:O1A	23:B:1022:CLA:C4D	2.53	0.56
23:C:1032:CLA:CAB	23:C:1034:CLA:HMC1	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:C:1034:CLA:C9	23:C:1034:CLA:H143	2.32	0.56
30:C:1057:DGD:CEA	29:J:1059:MGE:H222	2.36	0.56
4:D:284:ILE:O	4:D:287:VAL:HG13	2.06	0.56
1:a:5095:PRO:CA	23:a:6007:CLA:HED1	2.23	0.56
1:a:5120:LEU:HD13	1:a:5155:PHE:CD1	2.41	0.56
1:a:5205:VAL:C	1:a:5207:GLY:H	2.12	0.56
2:b:5028:ALA:HA	2:b:5031:ALA:HB2	1.88	0.56
2:b:5030:TRP:HE1	23:b:6015:CLA:CAC	2.19	0.56
2:b:5218:PRO:CD	7:h:5020:LYS:HE2	2.30	0.56
2:b:5389:PHE:O	2:b:5390:GLU:HB2	2.04	0.56
2:b:5423:PHE:CZ	13:o:5201:PRO:HB3	2.40	0.56
23:b:6010:CLA:C12	23:b:6010:CLA:C9	2.30	0.56
23:b:6013:CLA:H152	23:b:6018:CLA:CED	2.36	0.56
3:c:5135:ARG:HB2	20:z:5027:TYR:CG	2.41	0.56
3:c:5248:GLY:C	3:c:5250:TRP:H	2.13	0.56
23:c:6029:CLA:HAA1	23:c:6029:CLA:CBD	2.36	0.56
23:c:6032:CLA:H2A	23:c:6032:CLA:HED1	1.72	0.56
4:d:5089:LEU:HD22	4:d:5089:LEU:H	1.71	0.56
4:d:5209:LEU:CD2	25:d:6042:PQ9:H192	2.36	0.56
4:d:5308:ASP:C	4:d:5310:GLU:H	2.14	0.56
13:o:5162:ILE:N	13:o:5162:ILE:CD1	2.69	0.56
15:u:5101:GLN:O	15:u:5105:LEU:HG	2.06	0.56
2:B:13:ILE:HD12	2:B:14:ASN:N	2.21	0.56
2:B:464:PHE:HD1	23:B:1019:CLA:HBC1	1.70	0.56
23:B:1013:CLA:H152	23:B:1018:CLA:CED	2.36	0.56
3:C:123:ALA:HA	26:K:1052:BCR:H351	1.88	0.56
10:K:35:LEU:C	10:K:37:PHE:N	2.63	0.56
11:L:18:TYR:HE2	14:T:20:ALA:HA	1.71	0.56
13:O:145:LEU:HD23	13:O:145:LEU:N	2.18	0.56
16:V:105:PRO:HD2	16:V:115:ALA:HB2	1.86	0.56
1:a:5090:GLY:CA	1:a:5167:SER:HB2	2.36	0.56
1:a:5126:TYR:O	1:a:5130:GLN:CB	2.54	0.56
2:b:5122:ASP:HB3	2:b:5125:THR:HG22	1.88	0.56
2:b:5129:ALA:HB1	7:h:5018:TYR:HD2	1.71	0.56
2:b:5216:VAL:CG1	2:b:5217:ARG:N	2.69	0.56
23:b:6012:CLA:O1A	23:b:6013:CLA:HBA1	2.06	0.56
29:b:6060:MGE:H101	29:d:6061:MGE:H8A2	1.87	0.56
3:c:5039:ASN:O	3:c:5040:ALA:HB3	2.05	0.56
3:c:5306:GLY:CA	3:c:5400:PRO:HG2	2.36	0.56
23:c:6028:CLA:H121	23:c:6028:CLA:H171	1.77	0.56
4:d:5134:ARG:HA	4:d:5134:ARG:NE	2.15	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5291:LEU:O	4:d:5293:LEU:N	2.39	0.56
4:d:5328:TRP:HZ2	4:d:5348:ARG:HD2	1.71	0.56
7:h:5013:PRO:O	7:h:5016:SER:N	2.34	0.56
20:z:5049:ALA:C	20:z:5051:VAL:N	2.63	0.56
1:A:113:GLN:O	1:A:115:ILE:N	2.39	0.55
1:A:128:GLY:C	1:A:130:GLN:N	2.60	0.55
1:A:194:MET:CE	1:A:300:PHE:HB2	2.35	0.55
23:A:1003:CLA:CAD	23:D:1005:CLA:CBC	2.85	0.55
2:B:158:LEU:CD1	2:B:199:VAL:HG22	2.36	0.55
2:B:362:PHE:H	2:B:362:PHE:HD2	1.53	0.55
23:B:1010:CLA:C4D	23:B:1011:CLA:CMB	2.84	0.55
3:C:55:ALA:C	26:K:1052:BCR:H372	2.31	0.55
3:C:76:ILE:O	3:C:77:PRO:C	2.49	0.55
3:C:87:ILE:C	3:C:90:PRO:HD2	2.30	0.55
3:C:214:LEU:HD23	3:C:214:LEU:C	2.31	0.55
3:C:250:TRP:NE1	23:C:1030:CLA:CED	2.65	0.55
5:E:37:PHE:HE2	5:E:43:ALA:HA	1.71	0.55
7:H:6:TRP:CD1	7:H:10:ILE:HD11	2.41	0.55
26:T:6046:BCR:C38	26:T:6046:BCR:H373	2.25	0.55
15:U:109:LEU:O	15:U:111:HIS:N	2.39	0.55
16:V:89:THR:OG1	16:V:109:ASP:HA	2.05	0.55
1:a:5091:LEU:HD21	1:a:5163:ILE:HA	1.89	0.55
1:a:5279:ARG:C	1:a:5283:VAL:CG1	2.79	0.55
1:a:5289:GLY:O	1:a:5292:THR:HG22	2.05	0.55
2:b:5002:TRP:CD1	2:b:5003:TYR:H	2.24	0.55
2:b:5002:TRP:O	2:b:5004:ARG:N	2.38	0.55
2:b:5146:LEU:HB3	23:b:6011:CLA:CBC	2.36	0.55
2:b:5483:LEU:HD12	2:b:5486:GLU:OE1	2.06	0.55
23:b:6014:CLA:H143	26:b:6048:BCR:H10C	1.88	0.55
3:c:5088:LEU:HD23	23:c:6027:CLA:CMC	2.36	0.55
3:c:5094:THR:HG22	3:c:5298:PRO:HG3	1.87	0.55
3:c:5237:HIS:C	3:c:5240:ILE:HG22	2.31	0.55
5:e:5051:ARG:C	5:e:5053:ASP:N	2.64	0.55
6:f:5019:ARG:C	6:f:5019:ARG:HD3	2.31	0.55
7:h:5011:LEU:O	7:h:5014:LEU:HD13	2.06	0.55
10:k:5031:LEU:O	26:k:6051:BCR:C15	2.54	0.55
1:A:273:PHE:CZ	1:A:277:ALA:HB2	2.41	0.55
23:A:1003:CLA:H193	24:A:1038:PHO:CMA	2.35	0.55
2:B:191:ASN:HD22	2:B:192:PRO:N	2.03	0.55
2:B:371:THR:HG23	2:B:371:THR:O	2.05	0.55
23:B:1023:CLA:HHC	23:B:1023:CLA:CBB	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:274:TYR:HD1	3:C:274:TYR:H	1.53	0.55
23:C:1035:CLA:HBD	23:C:1035:CLA:HAA1	1.87	0.55
23:C:1036:CLA:H151	26:Z:1053:BCR:C36	2.36	0.55
5:E:23:HIS:HA	5:E:26:THR:OG1	2.06	0.55
7:H:11:LEU:O	7:H:14:LEU:HB2	2.06	0.55
12:M:4:ASN:OD1	12:M:6:LEU:HG	2.06	0.55
15:U:88:VAL:HG12	15:U:109:LEU:HD13	1.88	0.55
1:a:5319:ASP:O	1:a:5322:ASN:HB2	2.06	0.55
2:b:5015:ARG:HG2	2:b:5015:ARG:HH11	1.71	0.55
2:b:5145:LEU:CB	2:b:5207:ILE:HD11	2.36	0.55
2:b:5264:LEU:C	2:b:5265:PHE:HD2	2.13	0.55
2:b:5447:TRP:HB3	23:b:6015:CLA:HMB3	1.87	0.55
3:c:5239:TRP:O	3:c:5243:ILE:HG13	2.06	0.55
3:c:5248:GLY:O	3:c:5252:ILE:HB	2.05	0.55
23:c:6029:CLA:HBC3	23:c:6029:CLA:CHD	2.35	0.55
4:d:5016:ASP:O	4:d:5020:ASP:CG	2.49	0.55
15:u:5069:ARG:HG3	15:u:5069:ARG:HH11	1.71	0.55
15:u:5112:PHE:N	15:u:5112:PHE:CD2	2.71	0.55
1:A:149:ALA:HA	1:A:284:TRP:CD1	2.40	0.55
1:A:288:LEU:HD23	3:C:432:VAL:HG13	1.88	0.55
2:B:256:MET:HG3	2:B:451:PHE:CD2	2.42	0.55
23:B:1014:CLA:H143	26:B:1048:BCR:H10C	1.88	0.55
23:B:1016:CLA:HBC2	23:B:1016:CLA:CHD	2.28	0.55
23:B:1018:CLA:HAA2	23:B:1018:CLA:HBD	1.87	0.55
23:B:1022:CLA:C14	23:B:1022:CLA:C17	2.39	0.55
3:C:305:THR:O	3:C:306:GLY:C	2.50	0.55
3:C:459:ILE:N	3:C:459:ILE:CD1	2.68	0.55
4:D:91:LEU:HA	23:D:1008:CLA:CED	2.36	0.55
4:D:261:PHE:CE2	4:D:267:LEU:CB	2.88	0.55
11:L:10:VAL:CG1	12:m:5036:SER:HA	2.35	0.55
13:O:162:ILE:HD12	13:O:162:ILE:H	1.71	0.55
1:a:5143:ILE:CD1	4:d:5217:THR:HA	2.37	0.55
1:a:5227:THR:O	1:a:5230:THR:HG23	2.06	0.55
2:b:5072:TRP:CD2	2:b:5091:GLU:HG3	2.42	0.55
2:b:5462:GLY:HA2	2:b:5465:TRP:HB3	1.88	0.55
23:b:6010:CLA:C1D	23:b:6011:CLA:CMB	2.85	0.55
3:c:5157:MET:HE3	23:c:6033:CLA:H203	1.89	0.55
23:c:6026:CLA:C3B	23:c:6028:CLA:HBB2	2.35	0.55
23:c:6036:CLA:H151	26:z:6053:BCR:C36	2.36	0.55
23:d:6008:CLA:HBD	23:d:6008:CLA:HAA1	1.89	0.55
10:k:5031:LEU:O	26:k:6051:BCR:C16	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:k:6051:BCR:H321	26:k:6052:BCR:C12	2.36	0.55
13:o:5059:ASP:HB3	13:o:5061:SER:H	1.71	0.55
13:o:5129:PHE:O	13:o:5129:PHE:CD2	2.60	0.55
1:A:33:PHE:CB	1:A:129:ARG:HB2	2.34	0.55
1:A:231:GLU:HG2	1:A:235:TYR:HE1	1.72	0.55
1:A:288:LEU:O	1:A:292:THR:N	2.39	0.55
2:B:156:PHE:CD1	23:B:1014:CLA:HBC1	2.41	0.55
2:B:165:GLY:CA	2:B:180:PRO:HA	2.36	0.55
2:B:315:ILE:HG23	2:B:316:GLY:N	2.21	0.55
2:B:354:LEU:HD22	2:B:370:LEU:HD13	1.87	0.55
2:B:384:ARG:NH1	4:D:348:ARG:HD3	2.21	0.55
3:C:262:ARG:O	3:C:263:ALA:HB3	2.07	0.55
23:C:1028:CLA:H42	30:C:1056:DGD:HB32	1.88	0.55
23:C:1034:CLA:H92	23:C:1034:CLA:C12	2.27	0.55
10:K:35:LEU:O	10:K:37:PHE:N	2.40	0.55
13:O:34:ASP:O	13:O:35:ASP:C	2.49	0.55
13:O:120:THR:O	13:O:120:THR:HG22	2.06	0.55
16:V:64:ALA:O	16:V:66:CYS:O	2.24	0.55
20:Z:1:MET:HE2	20:Z:57:LEU:CD2	2.36	0.55
23:a:6003:CLA:H193	24:d:6038:PHO:CMA	2.36	0.55
2:b:5226:LEU:HD22	2:b:5228:MET:HB3	1.87	0.55
3:c:5061:VAL:HG23	3:c:5125:LEU:CD1	2.31	0.55
3:c:5150:ASP:O	3:c:5153:ASP:CB	2.54	0.55
3:c:5304:PRO:HB3	3:c:5395:TYR:CD2	2.41	0.55
4:d:5259:ILE:HD11	14:t:5021:ILE:HA	1.89	0.55
23:d:6005:CLA:H72	29:d:6062:MGE:CAB	2.36	0.55
11:l:5032:SER:HB2	12:m:5011:THR:OG1	2.06	0.55
15:u:5113:THR:HG22	15:u:5114:VAL:H	1.72	0.55
16:v:5098:LEU:HB2	16:v:5142:ALA:HB1	1.87	0.55
1:A:57:PRO:HG2	13:O:141:ARG:HH12	1.69	0.55
1:A:323:ARG:C	1:A:325:ASN:H	2.14	0.55
23:A:1006:CLA:C11	30:C:1057:DGD:HBG3	2.07	0.55
2:B:155:ALA:O	2:B:161:LEU:HD23	2.07	0.55
3:C:295:THR:O	3:C:298:PRO:HD3	2.05	0.55
4:D:80:THR:HB	4:D:81:PRO:HD2	1.89	0.55
4:D:286:VAL:HG21	23:D:1004:CLA:HED2	1.88	0.55
7:H:40:VAL:CG1	7:H:41:PHE:N	2.70	0.55
10:K:32:PHE:HE2	26:K:1051:BCR:C34	2.15	0.55
13:O:179:THR:HG22	13:O:180:ALA:H	1.69	0.55
13:O:266:TYR:CD1	13:O:267:ALA:N	2.75	0.55
16:V:52:TYR:O	16:V:53:LEU:C	2.49	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:V:114:ILE:HG23	16:V:114:ILE:O	2.06	0.55
18:Y:19:ILE:HD13	18:Y:19:ILE:O	2.06	0.55
1:a:5102:LEU:O	1:a:5106:LEU:HG	2.05	0.55
1:a:5330:VAL:HG23	1:a:5331:MET:N	2.22	0.55
23:a:6006:CLA:C18	26:d:6050:BCR:H292	2.36	0.55
23:b:6010:CLA:C4D	23:b:6011:CLA:CMB	2.84	0.55
3:c:5282:MET:HA	3:c:5285:ILE:HG23	1.87	0.55
23:c:6028:CLA:H2A	23:c:6028:CLA:O1D	2.07	0.55
7:h:5039:LEU:O	7:h:5039:LEU:HD13	2.06	0.55
13:o:5092:VAL:CG2	13:o:5093:PRO:HD2	2.37	0.55
16:v:5071:ILE:O	16:v:5071:ILE:HG23	2.05	0.55
1:A:192:ILE:HD13	1:A:198:HIS:CD2	2.42	0.55
1:A:192:ILE:CG1	1:A:293:MET:HE1	2.36	0.55
1:A:309:ALA:HB3	16:V:28:GLU:HG2	1.89	0.55
1:A:339:PHE:HD2	28:A:1065:BR:BR	2.45	0.55
2:B:152:GLY:HA2	2:B:155:ALA:CB	2.34	0.55
2:B:326:ARG:CB	2:B:444:ARG:HG3	2.32	0.55
2:B:434:THR:OG1	13:O:204:LYS:HE3	2.06	0.55
23:B:1019:CLA:H91	29:L:1061:MGE:C8A	2.37	0.55
16:V:140:ALA:O	16:V:141:ILE:C	2.50	0.55
1:a:5223:LEU:HD13	1:a:5224:ILE:N	2.22	0.55
1:a:5308:ASP:CG	1:a:5309:ALA:N	2.64	0.55
23:a:6003:CLA:CAD	23:d:6005:CLA:CBC	2.85	0.55
2:b:5370:LYS:CG	2:b:5371:ASN:H	2.20	0.55
23:b:6011:CLA:HBD	23:b:6011:CLA:HAA1	1.88	0.55
23:b:6015:CLA:H13	23:b:6021:CLA:H121	1.89	0.55
23:b:6022:CLA:HED2	23:b:6022:CLA:CAD	2.14	0.55
3:c:5032:GLY:HA2	3:c:5041:ARG:NH2	2.22	0.55
30:c:6057:DGD:CEA	29:d:6059:MGE:H222	2.36	0.55
4:d:5021:TRP:CE3	4:d:5021:TRP:C	2.85	0.55
4:d:5156:VAL:HG12	4:d:5156:VAL:O	2.06	0.55
4:d:5235:PHE:O	4:d:5236:ASN:HB2	2.06	0.55
5:e:5051:ARG:O	5:e:5053:ASP:N	2.39	0.55
13:o:5166:THR:HG22	13:o:5167:ASP:N	2.20	0.55
13:o:5187:GLY:HA3	13:o:5194:TYR:HB2	1.88	0.55
13:o:5213:VAL:CG1	15:u:5039:LEU:HD13	2.23	0.55
15:u:5056:ASP:C	15:u:5058:ASN:H	2.14	0.55
16:v:5105:PRO:HG3	16:v:5115:ALA:HA	1.89	0.55
1:A:53:ILE:HG22	1:A:54:ALA:N	2.21	0.55
1:A:71:LEU:C	1:A:73:TYR:N	2.63	0.55
1:A:72:LEU:CD2	14:T:3:THR:HG21	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:76:ASN:ND2	1:A:79:THR:HG23	2.21	0.55
1:A:126:TYR:CE2	24:A:1038:PHO:O1A	2.59	0.55
2:B:142:HIS:HA	2:B:145:LEU:HD12	1.88	0.55
2:B:226:TYR:CD2	2:B:226:TYR:O	2.60	0.55
2:B:422:ARG:HD2	2:B:423:LYS:HZ1	1.70	0.55
23:B:1016:CLA:HBA1	23:B:1016:CLA:HBD	1.88	0.55
4:D:89:LEU:HG	4:D:91:LEU:CD1	2.35	0.55
4:D:213:ILE:HG23	4:D:214:HIS:H	1.72	0.55
5:E:68:ASP:CA	5:E:69:ARG:HE	2.19	0.55
15:U:98:THR:N	15:U:101:GLN:HG3	2.22	0.55
17:X:34:PHE:O	17:X:38:ILE:HD11	2.06	0.55
1:a:5131:TRP:HZ3	1:a:5132:GLU:HG3	1.71	0.55
2:b:5016:LEU:HD13	2:b:5016:LEU:C	2.32	0.55
2:b:5170:GLY:HA3	2:b:5309:TYR:CE1	2.41	0.55
2:b:5231:ILE:HD11	23:b:6018:CLA:H201	1.88	0.55
2:b:5312:ILE:C	2:b:5314:ASN:N	2.64	0.55
3:c:5095:LEU:HA	3:c:5185:LEU:HD23	1.89	0.55
3:c:5097:TRP:HZ3	3:c:5113:VAL:CG2	2.16	0.55
3:c:5285:ILE:CG2	23:c:6025:CLA:H52	2.37	0.55
3:c:5343:ARG:HH12	3:c:5349:ILE:HD11	1.70	0.55
3:c:5459:ILE:HG22	3:c:5460:ASP:H	1.72	0.55
4:d:5155:SER:HA	4:d:5159:ILE:HG13	1.89	0.55
4:d:5196:PHE:HA	4:d:5199:MET:CE	2.37	0.55
7:h:5041:PHE:O	7:h:5042:LEU:C	2.47	0.55
9:j:5019:MET:HE1	26:k:6051:BCR:C36	2.37	0.55
10:k:5035:LEU:HD13	18:y:5014:GLY:O	2.07	0.55
13:o:5065:ARG:NE	13:o:5110:GLU:HA	2.22	0.55
14:t:5003:THR:OG1	14:t:5004:ILE:HD12	2.06	0.55
16:v:5067:HIS:HE2	31:v:6041:HEM:CHD	2.20	0.55
31:v:6041:HEM:HBC2	31:v:6041:HEM:HHD	1.87	0.55
1:A:155:PHE:CD1	30:C:1055:DGD:HBF2	2.42	0.55
1:A:157:VAL:HG11	23:D:1005:CLA:HMC2	1.88	0.55
1:A:210:LEU:HD23	23:A:1006:CLA:H51	1.88	0.55
2:B:144:PHE:O	2:B:210:ILE:HD13	2.06	0.55
2:B:172:TYR:O	2:B:173:GLY:C	2.50	0.55
2:B:348:ASN:HD21	2:B:350:GLU:HB2	1.71	0.55
23:B:1016:CLA:H202	23:D:1008:CLA:H3A	1.87	0.55
3:C:162:GLY:O	3:C:165:LEU:HB2	2.07	0.55
3:C:451:ALA:C	3:C:453:ALA:N	2.57	0.55
23:C:1026:CLA:C3B	23:C:1028:CLA:HBB2	2.36	0.55
4:D:40:CYS:C	4:D:42:TYR:H	2.13	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:65:SER:O	4:D:76:VAL:HG22	2.07	0.55
4:D:155:SER:HA	4:D:159:ILE:HD11	1.88	0.55
10:K:39:VAL:CG2	18:Y:36:ILE:HD12	2.33	0.55
13:O:150:ASN:O	13:O:151:LEU:O	2.24	0.55
16:V:120:SER:N	16:V:123:SER:HB2	2.13	0.55
1:a:5077:ILE:O	1:a:5176:ILE:HD12	2.07	0.55
1:a:5079:THR:O	1:a:5080:GLY:O	2.25	0.55
1:a:5271:LEU:O	1:a:5273:PHE:CD1	2.53	0.55
1:a:5338:ASN:ND2	3:c:5353:GLY:HA2	2.21	0.55
2:b:5465:TRP:HA	4:d:5144:ILE:CD1	2.37	0.55
23:b:6019:CLA:H91	29:d:6061:MGE:C8A	2.37	0.55
23:b:6023:CLA:O1A	23:b:6023:CLA:CMA	2.55	0.55
3:c:5042:LEU:HB3	3:c:5151:TRP:CH2	2.40	0.55
3:c:5171:GLY:C	3:c:5173:LEU:N	2.63	0.55
23:c:6030:CLA:HMB3	23:c:6031:CLA:C1B	2.36	0.55
4:d:5155:SER:HA	4:d:5159:ILE:HD11	1.87	0.55
29:d:6062:MGE:O5D	11:l:5015:THR:CG2	2.55	0.55
7:h:5041:PHE:HB2	26:h:6049:BCR:H14C	1.88	0.55
10:k:5018:PHE:CE2	20:z:5009:LEU:HD21	2.41	0.55
10:k:5035:LEU:CD2	26:k:6052:BCR:H401	2.36	0.55
12:m:5018:PRO:O	12:m:5021:PHE:HB3	2.06	0.55
1:A:57:PRO:HG2	13:O:141:ARG:CZ	2.37	0.55
1:A:97:TRP:HB2	8:I:1:MET:HG3	1.88	0.55
1:A:199:GLN:HG3	1:A:200:LEU:H	1.72	0.55
23:A:1006:CLA:C18	26:D:1050:BCR:C29	2.85	0.55
26:A:1044:BCR:H371	26:A:1044:BCR:H403	1.30	0.55
2:B:74:SER:HA	2:B:92:SER:HB2	1.88	0.55
2:B:185:TRP:CD1	2:B:185:TRP:N	2.74	0.55
2:B:226:TYR:HE2	2:B:231:MET:O	1.90	0.55
2:B:229:LEU:HD21	2:B:236:THR:OG1	2.06	0.55
2:B:250:PHE:CE2	23:B:1010:CLA:C20	2.90	0.55
23:B:1010:CLA:C1D	23:B:1011:CLA:CMB	2.85	0.55
23:B:1020:CLA:C1	23:B:1023:CLA:CED	2.63	0.55
23:B:1023:CLA:O1A	23:B:1023:CLA:CMA	2.55	0.55
3:C:85:GLY:H	30:C:1056:DGD:HE4	1.71	0.55
3:C:254:THR:HG22	3:C:255:THR:O	2.06	0.55
23:C:1027:CLA:C17	26:Z:1053:BCR:H10C	2.35	0.55
4:D:331:PRO:HA	4:D:339:PHE:HB2	1.88	0.55
13:O:154:SER:O	13:O:168:PHE:HA	2.07	0.55
17:X:33:THR:CG2	17:X:34:PHE:N	2.70	0.55
20:Z:62:VAL:O	20:Z:62:VAL:HG22	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5023:SER:C	1:a:5025:ASP:H	2.15	0.55
1:a:5223:LEU:HD21	4:d:5265:ARG:HD3	1.88	0.55
1:a:5288:LEU:O	1:a:5292:THR:N	2.40	0.55
23:a:6003:CLA:HAB	23:a:6006:CLA:HMD3	1.89	0.55
23:a:6003:CLA:CHA	23:d:6005:CLA:HAC2	2.37	0.55
2:b:5247:PHE:CZ	30:h:6058:DGD:HAG2	2.40	0.55
2:b:5460:PHE:O	2:b:5463:HIS:HB3	2.06	0.55
3:c:5187:ASP:OD1	3:c:5197:ARG:NH2	2.40	0.55
3:c:5346:THR:HG21	13:o:5038:GLY:N	2.22	0.55
3:c:5449:ARG:NH2	23:c:6029:CLA:HED2	2.21	0.55
23:c:6028:CLA:HMA1	23:c:6028:CLA:HBA1	1.88	0.55
4:d:5068:LEU:HA	6:f:5040:MET:SD	2.47	0.55
4:d:5300:SER:O	4:d:5303:ILE:CD1	2.54	0.55
13:o:5066:ILE:HD11	13:o:5121:PHE:CE2	2.41	0.55
1:A:94:TYR:HE2	13:O:99:ARG:NH1	2.04	0.55
1:A:244:GLU:HG3	4:D:264:LYS:HZ1	1.71	0.55
1:A:313:VAL:HG13	1:A:313:VAL:O	2.07	0.55
2:B:249:ALA:HB2	23:B:1012:CLA:CBC	2.37	0.55
2:B:256:MET:CE	2:B:448:ARG:HH12	2.14	0.55
2:B:456:ALA:CB	30:H:1058:DGD:HBG2	2.36	0.55
3:C:56:HIS:ND1	3:C:57:ALA:N	2.54	0.55
3:C:63:TRP:N	23:C:1034:CLA:CED	2.69	0.55
3:C:269:GLU:OE1	3:C:447:ARG:HG2	2.07	0.55
23:C:1036:CLA:C18	26:Z:1053:BCR:C37	2.85	0.55
30:C:1056:DGD:HBN2	10:K:30:VAL:CG2	2.28	0.55
11:L:16:SER:HA	11:L:19:LEU:HD12	1.88	0.55
11:L:21:LEU:HB3	14:T:16:LEU:HD21	1.89	0.55
13:O:71:LEU:HD22	13:O:148:VAL:HG21	1.89	0.55
17:X:11:THR:O	17:X:12:ILE:HG22	2.07	0.55
1:a:5058:VAL:HG13	1:a:5107:TYR:O	2.07	0.55
1:a:5280:VAL:CA	1:a:5283:VAL:HG13	2.30	0.55
1:a:5310:LYS:H	16:v:5028:GLU:CG	2.20	0.55
2:b:5061:PRO:HB2	2:b:5265:PHE:CE2	2.41	0.55
2:b:5123:PRO:HG2	2:b:5124:ARG:H	1.71	0.55
2:b:5132:LEU:HA	2:b:5135:MET:CE	2.37	0.55
23:b:6018:CLA:HAA2	23:b:6018:CLA:HBD	1.88	0.55
3:c:5282:MET:O	3:c:5286:ALA:HB2	2.07	0.55
3:c:5346:THR:HG21	13:o:5038:GLY:H	1.71	0.55
8:i:5029:ALA:HA	8:i:5034:ARG:HD3	1.89	0.55
16:v:5141:ILE:O	16:v:5144:HIS:HB3	2.06	0.55
20:z:5005:PHE:CD1	20:z:5057:LEU:HD13	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:73:GLY:HA3	2:B:88:PRO:HD2	1.89	0.54
2:B:221:PRO:HA	23:H:1017:CLA:CED	2.26	0.54
2:B:248:ALA:O	2:B:252:VAL:HG23	2.07	0.54
2:B:325:PHE:CD1	11:L:34:TYR:HB3	2.42	0.54
2:B:391:SER:C	2:B:392:PHE:O	2.47	0.54
2:B:450:TRP:O	2:B:451:PHE:C	2.50	0.54
23:B:1016:CLA:CHA	23:B:1016:CLA:CBA	2.80	0.54
23:B:1021:CLA:C18	29:B:1060:MGE:CDA	2.85	0.54
4:D:175:VAL:C	4:D:177:ALA:N	2.63	0.54
4:D:227:GLU:O	4:D:228:GLY:O	2.24	0.54
5:E:32:ILE:O	5:E:36:LEU:HG	2.07	0.54
7:H:38:PHE:HD1	26:H:1049:BCR:H10C	1.72	0.54
11:L:18:TYR:HE2	14:T:19:PHE:O	1.90	0.54
13:O:31:LEU:N	13:O:31:LEU:CD2	2.70	0.54
15:U:42:VAL:HG23	15:U:43:VAL:N	2.22	0.54
1:a:5037:MET:O	1:a:5041:LEU:HD23	2.07	0.54
1:a:5075:ASN:HD21	14:t:5002:GLU:CD	2.13	0.54
1:a:5127:MET:HE1	1:a:5148:SER:HA	1.89	0.54
1:a:5132:GLU:O	1:a:5136:ARG:HB2	2.07	0.54
1:a:5191:ASN:O	1:a:5299:GLY:HA3	2.07	0.54
1:a:5278:TRP:CE3	1:a:5278:TRP:CA	2.82	0.54
23:a:6003:CLA:H172	24:d:6038:PHO:C4	2.28	0.54
27:a:6063:LHG:H383	27:a:6063:LHG:C34	2.29	0.54
2:b:5027:VAL:HG12	23:b:6013:CLA:CMD	2.36	0.54
2:b:5052:MET:SD	2:b:5061:PRO:HA	2.47	0.54
23:b:6010:CLA:H41	7:h:5046:LEU:HA	1.90	0.54
3:c:5391:ARG:HH11	3:c:5391:ARG:HG3	1.72	0.54
3:c:5418:ASN:OD1	30:c:6057:DGD:HE61	2.07	0.54
3:c:5469:MET:HE2	4:d:5251:ARG:NH1	2.22	0.54
23:c:6029:CLA:C19	23:c:6029:CLA:H111	2.35	0.54
23:c:6031:CLA:O2D	23:c:6031:CLA:CAA	2.30	0.54
23:c:6032:CLA:CAB	23:c:6034:CLA:HMC1	2.37	0.54
30:c:6057:DGD:HAG2	30:c:6057:DGD:HBV1	1.87	0.54
4:d:5344:GLU:O	4:d:5345:VAL:C	2.50	0.54
11:l:5025:LEU:O	11:l:5028:ALA:HB3	2.07	0.54
12:m:5004:ASN:O	12:m:5006:LEU:N	2.40	0.54
13:o:5031:LEU:HD23	13:o:5031:LEU:N	2.21	0.54
16:v:5069:GLY:O	16:v:5156:TRP:O	2.24	0.54
18:y:5026:GLY:HA2	20:z:5030:PRO:HD3	1.89	0.54
1:A:234:ASN:O	4:D:263:ASN:ND2	2.39	0.54
2:B:159:THR:HG21	2:B:161:LEU:HD22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:165:GLY:HA3	2:B:180:PRO:CA	2.37	0.54
2:B:397:VAL:HG22	2:B:417:VAL:HG11	1.88	0.54
23:B:1016:CLA:C20	23:D:1008:CLA:HMA3	2.36	0.54
3:C:276:LEU:C	3:C:276:LEU:HD23	2.33	0.54
3:C:276:LEU:HD22	3:C:441:HIS:HB2	1.89	0.54
4:D:72:ASN:ND2	4:D:74:LEU:HG	2.21	0.54
4:D:76:VAL:O	4:D:77:ALA:HB2	2.06	0.54
8:I:3:THR:O	8:I:6:ILE:HD11	2.06	0.54
8:I:13:THR:CG2	8:I:14:PHE:H	2.18	0.54
9:J:8:ILE:HG22	9:J:9:PRO:HD2	1.89	0.54
26:T:6046:BCR:C13	26:b:6047:BCR:H381	2.37	0.54
20:Z:12:LEU:HD11	20:Z:51:VAL:HB	1.89	0.54
1:a:5130:GLN:HA	4:d:5256:ILE:HD11	1.88	0.54
1:a:5140:ARG:HB2	4:d:5220:ASN:HA	1.90	0.54
1:a:5314:ILE:HD12	4:d:5058:TRP:CZ3	2.43	0.54
2:b:5054:ARG:O	2:b:5327:MET:HB2	2.07	0.54
2:b:5142:LEU:O	2:b:5143:ALA:C	2.49	0.54
23:b:6016:CLA:C20	23:d:6008:CLA:HMA3	2.36	0.54
3:c:5033:PHE:HD2	3:c:5034:ALA:N	2.06	0.54
3:c:5429:SER:HA	30:c:6056:DGD:HA91	1.90	0.54
4:d:5089:LEU:HD23	7:h:5052:THR:HG21	1.88	0.54
4:d:5177:ALA:O	4:d:5180:ARG:HB3	2.06	0.54
4:d:5277:THR:HG22	4:d:5278:GLY:N	2.22	0.54
6:f:5026:LEU:C	6:f:5029:PRO:HD2	2.32	0.54
10:k:5031:LEU:HB3	26:k:6051:BCR:C15	2.37	0.54
15:u:5040:VAL:HG12	15:u:5041:ASN:N	2.23	0.54
15:u:5099:GLU:CD	15:u:5099:GLU:N	2.65	0.54
15:u:5105:LEU:O	15:u:5109:LEU:HD23	2.07	0.54
16:v:5058:LEU:HB3	16:v:5141:ILE:HG12	1.88	0.54
1:A:76:ASN:HD22	1:A:79:THR:HG23	1.71	0.54
1:A:119:PHE:CZ	23:A:1003:CLA:H91	2.43	0.54
1:A:130:GLN:HA	4:D:256:ILE:HD12	1.89	0.54
1:A:160:ILE:HG21	1:A:291:SER:CA	2.36	0.54
2:B:30:VAL:HG13	23:B:1021:CLA:HMC3	1.90	0.54
2:B:91:TRP:HA	2:B:91:TRP:HE3	1.72	0.54
2:B:150:CYS:O	2:B:153:PHE:N	2.25	0.54
2:B:326:ARG:HE	2:B:442:ILE:HG22	1.71	0.54
23:B:1013:CLA:CMA	23:B:1014:CLA:HMA2	2.37	0.54
23:B:1024:CLA:CMB	26:B:1048:BCR:H351	2.38	0.54
23:C:1025:CLA:C2B	23:C:1025:CLA:H42	2.34	0.54
23:C:1037:CLA:C1B	26:Z:1053:BCR:H282	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:43:LEU:HD13	4:D:43:LEU:N	2.22	0.54
5:E:36:LEU:C	5:E:38:VAL:N	2.65	0.54
6:F:32:PHE:C	6:F:32:PHE:CD2	2.86	0.54
15:U:59:ASN:O	15:U:60:THR:O	2.25	0.54
1:a:5155:PHE:CG	30:c:6055:DGD:HBF2	2.42	0.54
2:b:5312:ILE:CG1	2:b:5318:LYS:HG3	2.37	0.54
23:b:6014:CLA:HAA1	23:b:6014:CLA:HBD	1.89	0.54
23:b:6019:CLA:OBD	29:b:6060:MGE:C2G	2.54	0.54
23:b:6023:CLA:H142	23:b:6024:CLA:H8	1.88	0.54
3:c:5035:TRP:O	3:c:5038:GLY:N	2.38	0.54
3:c:5297:TYR:O	3:c:5298:PRO:C	2.50	0.54
3:c:5438:LEU:O	3:c:5441:HIS:HB3	2.06	0.54
23:c:6034:CLA:H71	23:c:6034:CLA:H43	1.84	0.54
23:c:6035:CLA:H172	20:z:5020:VAL:HA	1.90	0.54
23:c:6036:CLA:C18	26:z:6053:BCR:H373	2.37	0.54
4:d:5106:GLN:NE2	5:e:5048:GLY:HA3	2.14	0.54
5:e:5080:LEU:C	5:e:5082:GLN:N	2.64	0.54
13:o:5121:PHE:HE1	13:o:5151:LEU:HD23	1.72	0.54
13:o:5168:PHE:O	13:o:5169:LYS:C	2.49	0.54
20:z:5012:LEU:HG	20:z:5050:LEU:CB	2.37	0.54
1:A:197:PHE:O	1:A:200:LEU:N	2.39	0.54
1:A:293:MET:C	1:A:295:PHE:N	2.64	0.54
2:B:9:HIS:HB2	23:B:1019:CLA:CGA	2.38	0.54
2:B:13:ILE:O	2:B:234:ILE:HG21	2.08	0.54
2:B:277:SER:HB3	2:B:279:TYR:HB2	1.89	0.54
2:B:288:VAL:HG21	2:B:302:TRP:CD2	2.42	0.54
2:B:461:LEU:HA	4:D:280:TRP:HZ3	1.72	0.54
3:C:211:GLY:O	3:C:214:LEU:HB3	2.07	0.54
3:C:336:GLY:HA3	13:O:177:TYR:O	2.07	0.54
3:C:382:ASN:C	3:C:384:ILE:H	2.15	0.54
4:D:52:THR:O	4:D:66:SER:HA	2.07	0.54
4:D:54:PHE:HB3	5:E:47:PHE:CE1	2.43	0.54
4:D:350:ASN:O	4:D:351:ALA:HB3	2.08	0.54
9:J:10:LEU:CA	9:J:13:VAL:HG23	2.38	0.54
15:U:43:VAL:HG12	15:U:44:ASP:N	2.21	0.54
1:a:5042:LEU:HD12	26:a:6044:BCR:C11	2.37	0.54
1:a:5220:THR:HB	4:d:5141:TYR:HD2	1.72	0.54
1:a:5231:GLU:HG2	1:a:5235:TYR:CE1	2.42	0.54
23:a:6006:CLA:C17	26:d:6050:BCR:H292	2.31	0.54
23:a:6006:CLA:HAA2	30:c:6057:DGD:CFB	2.36	0.54
2:b:5149:GLY:C	23:b:6014:CLA:CMC	2.67	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5178:VAL:HB	2:b:5196:VAL:HG21	1.88	0.54
2:b:5185:ASP:C	2:b:5187:PHE:H	2.15	0.54
3:c:5036:TRP:NE1	3:c:5037:ALA:HB2	2.22	0.54
3:c:5092:ILE:C	3:c:5092:ILE:HD12	2.32	0.54
30:c:6056:DGD:CAB	30:c:6056:DGD:HBF2	2.34	0.54
4:d:5087:HIS:HB2	30:h:6058:DGD:O2D	2.08	0.54
4:d:5273:PHE:CD2	29:d:6061:MGE:H5B1	2.42	0.54
29:d:6062:MGE:H3G1	11:l:5015:THR:HG21	1.88	0.54
7:h:5038:PHE:O	7:h:5041:PHE:N	2.40	0.54
7:h:5054:ILE:HG22	17:x:5015:SER:OG	2.07	0.54
8:i:5003:THR:O	8:i:5007:THR:HG23	2.07	0.54
11:l:5021:LEU:HD22	12:m:5022:LEU:HD12	1.89	0.54
17:x:5013:THR:HG22	17:x:5016:LEU:N	2.22	0.54
18:y:5011:GLY:O	18:y:5015:PRO:CD	2.55	0.54
1:A:30:VAL:HG12	1:A:30:VAL:O	2.07	0.54
1:A:149:ALA:CB	1:A:283:VAL:HG22	2.23	0.54
23:A:1003:CLA:CBB	23:A:1006:CLA:CMD	2.80	0.54
23:A:1006:CLA:H171	26:D:1050:BCR:H401	1.55	0.54
2:B:6:TYR:CE2	11:L:11:GLU:HG3	2.43	0.54
2:B:281:GLN:HA	2:B:284:ILE:HG12	1.90	0.54
3:C:100:GLY:O	3:C:103:GLY:N	2.38	0.54
23:C:1034:CLA:C4	23:C:1034:CLA:CGA	2.85	0.54
4:D:27:PHE:HB3	6:F:19:ARG:HB2	1.90	0.54
4:D:58:TRP:O	4:D:62:GLY:HA2	2.07	0.54
23:D:1008:CLA:HAA1	23:D:1008:CLA:HBD	1.89	0.54
5:E:58:GLN:O	5:E:58:GLN:CD	2.51	0.54
7:H:35:MET:HG3	26:H:1049:BCR:H333	1.85	0.54
10:K:28:ILE:HG22	10:K:29:PRO:HD3	0.62	0.54
15:U:89:GLU:C	15:U:91:VAL:H	2.15	0.54
16:V:130:MET:HA	16:V:133:LEU:CD1	2.37	0.54
20:Z:17:PHE:O	20:Z:21:ILE:HG13	2.07	0.54
1:a:5022:THR:HA	1:a:5029:TYR:CE1	2.42	0.54
1:a:5032:TRP:HA	1:a:5032:TRP:HE3	1.73	0.54
1:a:5284:TRP:O	1:a:5287:ALA:HB3	2.07	0.54
2:b:5007:THR:O	2:b:5009:LEU:N	2.40	0.54
2:b:5013:PRO:HG3	2:b:5130:LEU:HD11	1.89	0.54
2:b:5118:GLU:HB2	7:h:5003:ARG:O	2.07	0.54
2:b:5260:THR:O	2:b:5445:ARG:NH2	2.41	0.54
2:b:5445:ARG:NH1	2:b:5445:ARG:HG3	2.22	0.54
23:b:6021:CLA:C18	29:b:6060:MGE:CDA	2.85	0.54
23:b:6024:CLA:CMB	26:b:6048:BCR:H351	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5045:LEU:HD13	3:c:5139:THR:HG23	1.89	0.54
3:c:5131:TYR:HA	20:z:5027:TYR:CE1	2.43	0.54
3:c:5159:THR:HG23	3:c:5252:ILE:CA	2.27	0.54
3:c:5276:LEU:C	3:c:5278:ALA:H	2.15	0.54
23:c:6037:CLA:C1B	26:z:6053:BCR:H282	2.37	0.54
30:c:6055:DGD:C3B	30:c:6055:DGD:C7B	2.86	0.54
4:d:5141:TYR:HA	4:d:5144:ILE:CG2	2.37	0.54
4:d:5311:PHE:CD1	4:d:5311:PHE:C	2.85	0.54
8:i:5006:ILE:O	8:i:5007:THR:C	2.51	0.54
8:i:5014:PHE:CZ	8:i:5018:LEU:HD11	2.42	0.54
10:k:5021:LEU:C	10:k:5023:ASP:N	2.65	0.54
18:y:5013:ALA:O	18:y:5017:ILE:CG2	2.45	0.54
20:z:5027:TYR:N	20:z:5027:TYR:CD2	2.74	0.54
1:A:200:LEU:O	1:A:282:GLY:HA3	2.08	0.54
1:A:261:GLN:O	1:A:263:ALA:N	2.38	0.54
23:A:1006:CLA:CBC	23:A:1006:CLA:CHD	2.77	0.54
23:A:1006:CLA:H142	23:D:1004:CLA:H192	1.88	0.54
2:B:257:TRP:CD1	2:B:273:TYR:OH	2.61	0.54
2:B:277:SER:O	2:B:278:SER:HB2	2.07	0.54
23:B:1009:CLA:C3B	26:H:1049:BCR:C38	2.82	0.54
3:C:362:ARG:HG3	3:C:362:ARG:NH1	2.20	0.54
30:C:1057:DGD:HB92	30:C:1057:DGD:HA92	1.90	0.54
4:D:313:THR:H	4:D:316:THR:HG23	1.73	0.54
7:H:41:PHE:HD2	7:H:42:LEU:HD23	1.72	0.54
7:H:61:SER:OG	7:H:63:LYS:HB2	2.08	0.54
9:J:21:VAL:HG13	9:J:22:ILE:H	1.73	0.54
10:K:28:ILE:O	10:K:31:LEU:HD12	2.06	0.54
26:Z:1053:BCR:C27	26:Z:1053:BCR:H403	2.38	0.54
1:a:5223:LEU:O	1:a:5224:ILE:O	2.26	0.54
1:a:5272:HIS:N	1:a:5275:LEU:HG	2.22	0.54
24:a:6039:PHO:H143	4:d:5173:PHE:HD1	1.72	0.54
2:b:5312:ILE:O	2:b:5315:ASN:N	2.35	0.54
2:b:5415:LYS:NZ	15:u:5044:ASP:OD1	2.40	0.54
2:b:5465:TRP:HB2	4:d:5144:ILE:HD11	1.90	0.54
3:c:5086:LEU:HD12	3:c:5086:LEU:N	2.22	0.54
3:c:5098:GLY:HA3	3:c:5111:PHE:CE1	2.43	0.54
3:c:5160:ILE:O	3:c:5163:PHE:HB2	2.08	0.54
3:c:5275:SER:O	23:c:6033:CLA:HED1	2.07	0.54
30:c:6057:DGD:HB92	30:c:6057:DGD:HA92	1.90	0.54
4:d:5014:TRP:O	4:d:5017:ILE:HB	2.07	0.54
4:d:5169:PHE:H	4:d:5169:PHE:HD2	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:5034:GLY:CA	6:f:5032:PHE:CE2	2.90	0.54
5:e:5053:ASP:OD2	5:e:5053:ASP:C	2.50	0.54
15:u:5071:LEU:HD11	15:u:5108:ASN:HD21	1.71	0.54
20:z:5039:LEU:O	20:z:5042:LEU:HB3	2.07	0.54
23:A:1003:CLA:CHA	23:D:1005:CLA:HAC2	2.37	0.54
2:B:27:THR:C	23:B:1013:CLA:HBC1	2.32	0.54
2:B:190:PHE:CE1	23:B:1010:CLA:HMB2	2.42	0.54
2:B:449:GLY:O	2:B:452:THR:HB	2.07	0.54
23:B:1010:CLA:H12	7:H:49:TYR:HD2	1.73	0.54
26:B:1047:BCR:H361	26:t:1046:BCR:C17	2.38	0.54
29:B:1060:MGE:H1G1	29:B:1060:MGE:O1B	2.07	0.54
3:C:42:LEU:HB3	3:C:151:TRP:HH2	1.71	0.54
3:C:163:PHE:CD2	23:C:1036:CLA:HBB1	2.43	0.54
4:D:21:TRP:CD1	17:X:40:ILE:HG22	2.43	0.54
12:M:9:ILE:CD1	12:m:5009:ILE:CG1	2.82	0.54
1:a:5083:VAL:HG22	1:a:5084:PRO:HD2	1.90	0.54
1:a:5149:ALA:CB	1:a:5283:VAL:CG2	2.76	0.54
1:a:5157:VAL:HG11	23:d:6005:CLA:HMC2	1.90	0.54
1:a:5328:MET:HB3	4:d:5325:ILE:HD11	1.88	0.54
1:a:5344:ALA:O	3:c:5357:ARG:NH2	2.41	0.54
2:b:5014:GLY:C	2:b:5016:LEU:H	2.13	0.54
2:b:5056:GLY:O	23:b:6015:CLA:CED	2.56	0.54
2:b:5217:ARG:HA	7:h:5020:LYS:HE2	1.90	0.54
2:b:5232:GLU:HG3	2:b:5470:THR:OG1	2.08	0.54
2:b:5267:PRO:HG2	2:b:5314:ASN:O	2.08	0.54
2:b:5295:LEU:HD12	2:b:5295:LEU:O	2.08	0.54
2:b:5461:PHE:HD1	23:b:6019:CLA:CBC	2.20	0.54
23:b:6016:CLA:HBC3	23:b:6016:CLA:CHD	2.32	0.54
3:c:5072:LEU:C	3:c:5074:HIS:N	2.65	0.54
3:c:5173:LEU:HA	3:c:5176:VAL:HG23	1.90	0.54
3:c:5280:SER:OG	3:c:5438:LEU:HB2	2.08	0.54
23:c:6025:CLA:C2B	23:c:6025:CLA:H42	2.34	0.54
23:c:6028:CLA:H43	30:c:6057:DGD:C2A	2.26	0.54
4:d:5210:LEU:O	4:d:5211:CYS:C	2.50	0.54
4:d:5319:LEU:O	4:d:5322:ASN:HB2	2.08	0.54
26:k:6051:BCR:H403	26:k:6051:BCR:C22	2.36	0.54
13:o:5150:ASN:HB2	13:o:5173:ASN:ND2	2.23	0.54
1:A:223:LEU:O	1:A:224:ILE:O	2.26	0.54
1:A:261:GLN:C	1:A:263:ALA:N	2.65	0.54
2:B:9:HIS:CE1	23:B:1020:CLA:HBB2	2.42	0.54
2:B:51:VAL:HG13	2:B:52:LEU:HG	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:153:PHE:HD2	2:B:202:HIS:ND1	2.06	0.54
2:B:217:ILE:HG23	2:B:218:LEU:CD2	2.38	0.54
2:B:462:PHE:CE1	23:B:1012:CLA:HAC1	2.43	0.54
3:C:324:LEU:O	15:U:77:LYS:HG3	2.08	0.54
3:C:399:ALA:C	3:C:401:LEU:H	2.14	0.54
23:C:1036:CLA:C18	26:Z:1053:BCR:H373	2.37	0.54
4:D:26:ARG:NH1	6:F:17:THR:OG1	2.41	0.54
23:D:1005:CLA:H72	29:D:1062:MGE:CAB	2.36	0.54
5:E:44:TYR:O	5:E:46:VAL:N	2.40	0.54
10:K:26:PRO:C	10:K:28:ILE:H	2.16	0.54
14:T:2:GLU:HG3	14:T:3:THR:N	2.22	0.54
16:V:55:GLY:O	16:V:59:PHE:HB2	2.07	0.54
20:Z:3:ILE:H	20:Z:3:ILE:CD1	2.05	0.54
1:a:5048:PHE:CD2	1:a:5082:VAL:HG21	2.43	0.54
1:a:5167:SER:C	1:a:5169:SER:H	2.16	0.54
1:a:5322:ASN:ND2	3:c:5412:THR:CG2	2.70	0.54
2:b:5390:GLU:O	2:b:5393:GLY:N	2.41	0.54
2:b:5460:PHE:HD2	30:h:6058:DGD:HAV1	1.71	0.54
3:c:5048:LYS:HB2	3:c:5048:LYS:HZ2	1.72	0.54
3:c:5169:GLY:CA	3:c:5244:CYS:SG	2.96	0.54
3:c:5343:ARG:HH12	3:c:5349:ILE:CD1	2.21	0.54
3:c:5456:GLU:O	3:c:5457:LYS:HB2	2.08	0.54
3:c:5460:ASP:O	3:c:5462:GLU:N	2.41	0.54
4:d:5017:ILE:HD13	17:x:5042:GLN:HB2	1.89	0.54
26:d:6050:BCR:H363	6:f:5033:PHE:HB3	1.89	0.54
9:j:5024:ILE:O	9:j:5028:PHE:CD1	2.61	0.54
11:l:5030:LEU:HD23	11:l:5031:PHE:N	2.23	0.54
20:z:5016:SER:HA	20:z:5019:MET:CG	2.38	0.54
2:B:16:PRO:HA	2:B:19:LEU:HB3	1.89	0.54
2:B:27:THR:HG23	23:B:1013:CLA:CAC	2.36	0.54
2:B:160:GLY:C	2:B:162:PHE:N	2.63	0.54
2:B:235:GLU:OE2	2:B:472:ARG:HB2	2.07	0.54
2:B:309:LEU:O	2:B:309:LEU:HD23	2.08	0.54
23:B:1015:CLA:H13	23:B:1021:CLA:H121	1.89	0.54
3:C:60:ILE:HG12	23:C:1027:CLA:CMD	2.38	0.54
3:C:171:GLY:C	3:C:173:LEU:N	2.66	0.54
3:C:349:ILE:N	3:C:349:ILE:CD1	2.71	0.54
4:D:213:ILE:HG23	4:D:214:HIS:N	2.21	0.54
4:D:256:ILE:CG2	4:D:257:PHE:H	2.19	0.54
5:E:75:GLN:HG3	5:E:79:PHE:HE1	1.72	0.54
26:K:1051:BCR:H331	26:K:1051:BCR:C9	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:L:25:LEU:HD22	14:T:13:ILE:HD13	1.89	0.54
13:O:65:ARG:CZ	13:O:66:ILE:N	2.59	0.54
13:O:179:THR:CG2	13:O:180:ALA:N	2.71	0.54
14:T:25:GLU:HG3	14:T:25:GLU:O	2.07	0.54
16:V:54:GLU:O	16:V:58:LEU:HB2	2.08	0.54
16:V:108:TYR:O	16:V:109:ASP:O	2.26	0.54
1:a:5094:TYR:HB3	1:a:5113:GLN:OE1	2.08	0.54
1:a:5099:ALA:C	1:a:5101:SER:N	2.66	0.54
23:a:6003:CLA:CAB	23:a:6006:CLA:HMD3	2.37	0.54
2:b:5007:THR:C	2:b:5009:LEU:H	2.15	0.54
2:b:5140:LEU:CD1	2:b:5206:GLY:O	2.56	0.54
2:b:5142:LEU:HA	2:b:5145:LEU:HD22	1.89	0.54
2:b:5462:GLY:CA	23:b:6019:CLA:HBC2	2.38	0.54
23:b:6009:CLA:CGD	23:b:6009:CLA:CGA	2.86	0.54
23:b:6014:CLA:O2D	23:b:6014:CLA:HAA1	2.08	0.54
23:b:6022:CLA:H62	26:b:6045:BCR:C20	2.38	0.54
3:c:5040:ALA:HA	23:c:6033:CLA:CMC	2.38	0.54
4:d:5024:ARG:HH21	4:d:5024:ARG:CG	2.20	0.54
4:d:5199:MET:O	4:d:5202:ALA:HB3	2.07	0.54
4:d:5235:PHE:CD1	4:d:5235:PHE:C	2.85	0.54
16:v:5128:PRO:O	16:v:5129:LYS:C	2.51	0.54
1:A:59:ASP:OD1	1:A:64:ARG:HA	2.08	0.54
1:A:190:HIS:ND1	1:A:298:ASN:CG	2.66	0.54
2:B:160:GLY:O	2:B:162:PHE:N	2.41	0.54
2:B:280:PHE:CZ	2:B:312:TYR:CD1	2.96	0.54
2:B:315:ILE:HG12	2:B:321:LYS:HG3	1.90	0.54
2:B:373:LYS:CG	2:B:374:ASN:H	2.21	0.54
23:B:1016:CLA:HBC3	23:B:1016:CLA:CHD	2.32	0.54
3:C:162:GLY:CA	3:C:165:LEU:HB2	2.38	0.54
3:C:240:ILE:HD13	26:C:1054:BCR:C37	2.37	0.54
26:C:1054:BCR:C23	26:C:1054:BCR:H382	2.23	0.54
4:D:180:ARG:O	4:D:181:PHE:C	2.51	0.54
4:D:344:GLU:HG3	4:D:345:VAL:H	1.73	0.54
9:J:17:ALA:C	9:J:19:MET:N	2.66	0.54
13:O:227:VAL:HG12	13:O:228:ALA:N	2.23	0.54
23:a:6003:CLA:C17	24:d:6038:PHO:C4	2.85	0.54
2:b:5009:LEU:HD13	2:b:5016:LEU:CA	2.31	0.54
2:b:5250:ALA:HB2	2:b:5452:HIS:HB2	1.90	0.54
2:b:5387:TYR:N	2:b:5387:TYR:CD1	2.74	0.54
2:b:5431:THR:HG23	13:o:5204:LYS:HE2	1.90	0.54
2:b:5461:PHE:HB3	4:d:5280:TRP:HH2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5233:VAL:HG13	3:c:5234:VAL:N	2.22	0.54
23:c:6036:CLA:C18	26:z:6053:BCR:C37	2.85	0.54
4:d:5123:ILE:HG22	4:d:5127:LEU:CD2	2.38	0.54
4:d:5261:PHE:HE1	25:d:6042:PQ9:C14	2.13	0.54
29:d:6062:MGE:H2A2	14:t:5020:ALA:CB	2.38	0.54
8:i:5014:PHE:O	8:i:5017:LEU:HB2	2.07	0.54
13:o:5036:ILE:HD12	13:o:5036:ILE:H	1.72	0.54
13:o:5144:LEU:CD1	13:o:5259:VAL:HG11	2.38	0.54
26:z:6053:BCR:H403	26:z:6053:BCR:C27	2.37	0.54
1:A:279:ARG:HD3	4:D:208:ALA:C	2.33	0.53
1:A:296:ASN:HB2	3:C:400:PRO:O	2.07	0.53
24:A:1039:PHO:H18	4:D:48:TRP:CE2	2.42	0.53
2:B:9:HIS:CG	23:B:1020:CLA:HBB2	2.43	0.53
2:B:150:CYS:O	2:B:151:PHE:C	2.51	0.53
2:B:297:THR:HG22	2:B:300:GLU:CG	2.38	0.53
3:C:88:LEU:O	3:C:92:ILE:HG23	2.07	0.53
3:C:116:VAL:HG11	26:Z:1053:BCR:HC31	1.90	0.53
3:C:435:PHE:O	3:C:438:LEU:N	2.40	0.53
23:C:1032:CLA:H92	23:C:1032:CLA:C5	2.36	0.53
4:D:56:THR:HG21	5:E:50:PRO:HD3	1.89	0.53
4:D:270:PHE:O	4:D:274:VAL:HG23	2.07	0.53
4:D:299:ILE:C	4:D:301:GLN:N	2.64	0.53
8:I:1:MET:CE	8:I:4:LEU:HD23	2.37	0.53
13:O:247:SER:OG	13:O:257:HIS:N	2.37	0.53
15:U:59:ASN:O	15:U:60:THR:C	2.49	0.53
20:Z:16:SER:HA	20:Z:19:MET:HB2	1.90	0.53
1:a:5160:ILE:HD12	1:a:5160:ILE:N	2.23	0.53
2:b:5210:GLY:O	2:b:5214:ILE:N	2.41	0.53
3:c:5054:VAL:HA	23:c:6036:CLA:HED3	1.90	0.53
3:c:5354:GLU:C	3:c:5356:MET:H	2.16	0.53
4:d:5237:PRO:O	4:d:5238:THR:HG22	2.08	0.53
24:d:6038:PHO:CED	24:d:6038:PHO:CHA	2.86	0.53
5:e:5034:GLY:HA3	6:f:5032:PHE:CD2	2.43	0.53
13:o:5059:ASP:O	13:o:5060:SER:HB3	2.07	0.53
13:o:5215:ARG:H	13:o:5215:ARG:CD	2.12	0.53
18:y:5017:ILE:HD12	18:y:5017:ILE:O	2.07	0.53
1:A:323:ARG:NH1	4:D:328:TRP:O	2.41	0.53
23:A:1003:CLA:HAB	23:A:1006:CLA:HMD3	1.89	0.53
27:A:1063:LHG:C32	23:C:1034:CLA:C9	2.79	0.53
2:B:75:TRP:HB2	2:B:94:GLU:HG3	1.90	0.53
2:B:272:ARG:CG	2:B:320:ALA:HB2	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1014:CLA:HBD	23:B:1014:CLA:HAA1	1.89	0.53
26:B:1045:BCR:H403	26:B:1045:BCR:C22	2.34	0.53
3:C:116:VAL:HG23	26:K:1052:BCR:HC41	1.90	0.53
3:C:278:ALA:C	3:C:282:MET:HE3	2.32	0.53
4:D:129:GLN:CB	4:D:143:ALA:HB2	2.37	0.53
4:D:129:GLN:CD	4:D:143:ALA:HA	2.33	0.53
4:D:218:VAL:HA	4:D:221:THR:CG2	2.38	0.53
9:J:21:VAL:HG13	9:J:22:ILE:N	2.23	0.53
15:U:80:VAL:HG22	15:U:127:ARG:CZ	2.39	0.53
15:U:89:GLU:C	15:U:91:VAL:N	2.65	0.53
20:Z:42:LEU:HD13	20:Z:43:GLY:N	2.23	0.53
1:a:5017:PHE:O	1:a:5021:VAL:HG13	2.07	0.53
1:a:5160:ILE:N	1:a:5160:ILE:CD1	2.71	0.53
1:a:5258:LEU:HA	4:d:5128:ARG:HH12	1.72	0.53
2:b:5077:ILE:O	2:b:5077:ILE:HG13	2.09	0.53
2:b:5096:ALA:O	2:b:5099:VAL:CG1	2.56	0.53
2:b:5146:LEU:CG	23:b:6011:CLA:HBC1	2.37	0.53
2:b:5226:LEU:HD21	2:b:5233:THR:OG1	2.09	0.53
4:d:5020:ASP:HA	4:d:5023:LYS:CE	2.38	0.53
11:l:5005:PRO:C	11:l:5007:ARG:N	2.67	0.53
13:o:5105:ASP:O	13:o:5127:ILE:CD1	2.51	0.53
20:z:5012:LEU:HG	20:z:5050:LEU:HB3	1.89	0.53
1:A:337:HIS:CB	28:A:1065:BR:BR	3.12	0.53
2:B:370:LEU:HB2	2:B:379:ALA:O	2.07	0.53
2:B:465:GLY:N	23:B:1019:CLA:HBC2	2.19	0.53
23:B:1020:CLA:H12	23:B:1023:CLA:O2D	2.08	0.53
3:C:46:SER:H	3:C:140:LEU:CD2	2.21	0.53
3:C:233:VAL:HG13	3:C:234:VAL:H	1.72	0.53
3:C:273:SER:O	3:C:276:LEU:N	2.38	0.53
3:C:418:ASN:ND2	3:C:418:ASN:C	2.65	0.53
23:C:1029:CLA:C19	23:C:1029:CLA:H111	2.35	0.53
4:D:45:LEU:HD13	4:D:46:GLY:N	2.24	0.53
4:D:158:LEU:O	4:D:162:LEU:HG	2.08	0.53
5:E:15:THR:OG1	9:J:10:LEU:HD23	2.08	0.53
11:L:22:LEU:HD23	11:L:22:LEU:C	2.33	0.53
13:O:56:TYR:HH	13:O:64:TYR:HE2	1.57	0.53
13:O:183:LEU:HD12	13:O:183:LEU:H	1.73	0.53
15:U:80:VAL:CG1	15:U:127:ARG:HD3	2.38	0.53
18:Y:24:MET:HE2	18:Y:24:MET:HA	1.91	0.53
1:a:5021:VAL:HG21	1:a:5032:TRP:CZ2	2.43	0.53
1:a:5110:GLY:N	1:a:5111:PRO:HD2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5214:MET:O	1:a:5215:HIS:C	2.51	0.53
2:b:5220:GLN:C	2:b:5222:LEU:N	2.65	0.53
2:b:5277:PHE:CE1	2:b:5309:TYR:HB3	2.43	0.53
3:c:5086:LEU:HD23	3:c:5089:ILE:HD12	1.90	0.53
3:c:5436:PHE:HA	3:c:5439:VAL:CG1	2.38	0.53
4:d:5087:HIS:HA	4:d:5167:TRP:NE1	2.23	0.53
4:d:5336:HIS:CD2	4:d:5336:HIS:N	2.77	0.53
13:o:5224:SER:C	13:o:5225:LEU:HD12	2.32	0.53
20:z:5001:MET:HB2	20:z:5004:LEU:HD21	1.89	0.53
20:z:5038:GLN:C	20:z:5040:ILE:N	2.66	0.53
1:A:60:ILE:CG2	1:A:83:VAL:CG1	2.85	0.53
1:A:130:GLN:HA	4:D:256:ILE:HD11	1.90	0.53
23:A:1003:CLA:C3D	23:D:1005:CLA:HAC2	2.38	0.53
2:B:11:VAL:O	2:B:12:LEU:HD23	2.09	0.53
2:B:247:PHE:HE1	23:B:1010:CLA:H8	1.72	0.53
2:B:250:PHE:CZ	30:H:1058:DGD:HAG2	2.35	0.53
2:B:390:TYR:O	2:B:391:SER:C	2.51	0.53
2:B:457:VAL:CG1	4:D:284:ILE:HD13	2.38	0.53
23:B:1013:CLA:H71	23:B:1018:CLA:H42	1.91	0.53
23:B:1014:CLA:C11	26:B:1048:BCR:H10C	2.32	0.53
3:C:230:LEU:C	3:C:233:VAL:HG12	2.33	0.53
4:D:29:PHE:CE2	4:D:132:ILE:HG12	2.43	0.53
4:D:53:THR:HG22	4:D:67:TYR:HE2	1.72	0.53
4:D:284:ILE:O	4:D:287:VAL:N	2.40	0.53
10:K:32:PHE:CD1	26:K:1052:BCR:H24C	2.36	0.53
11:L:25:LEU:O	11:L:28:ALA:HB3	2.09	0.53
16:V:33:VAL:HG12	16:V:34:LEU:HD12	1.90	0.53
1:a:5228:THR:C	1:a:5230:THR:H	2.17	0.53
1:a:5258:LEU:HD12	4:d:5128:ARG:HH12	1.69	0.53
1:a:5274:PHE:CD1	1:a:5277:ALA:HB3	2.44	0.53
1:a:5276:ALA:O	1:a:5277:ALA:C	2.51	0.53
2:b:5343:PHE:HE1	2:b:5418:ALA:CB	2.22	0.53
23:b:6012:CLA:CED	23:b:6012:CLA:C2A	2.75	0.53
23:b:6022:CLA:O1D	23:b:6022:CLA:CGA	2.57	0.53
3:c:5045:LEU:HD11	3:c:5139:THR:HG23	1.90	0.53
3:c:5334:PRO:HA	13:o:5179:THR:HB	1.89	0.53
3:c:5337:LEU:HD23	13:o:5131:PRO:CG	2.38	0.53
4:d:5023:LYS:HA	4:d:5029:PHE:HE1	1.73	0.53
4:d:5146:PHE:O	4:d:5150:ILE:HG12	2.08	0.53
4:d:5305:ALA:O	4:d:5306:ALA:C	2.50	0.53
23:d:6005:CLA:H161	29:d:6062:MGE:H251	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:5038:VAL:CG1	6:f:5039:ALA:HB3	2.39	0.53
8:i:5013:THR:O	8:i:5017:LEU:HG	2.08	0.53
12:m:5003:VAL:CG2	12:m:5004:ASN:H	2.21	0.53
12:m:5029:THR:O	12:m:5032:GLN:HG2	2.08	0.53
13:o:5230:VAL:HG22	13:o:5237:ILE:CA	2.36	0.53
16:v:5123:SER:O	16:v:5126:ILE:N	2.38	0.53
20:z:5062:VAL:HG22	20:z:5062:VAL:O	2.09	0.53
1:A:133:LEU:HG	1:A:137:LEU:CD1	2.39	0.53
1:A:190:HIS:ND1	1:A:298:ASN:ND2	2.57	0.53
1:A:215:HIS:HA	25:A:1043:PQ9:H91	1.89	0.53
2:B:65:PHE:O	2:B:68:ARG:CG	2.54	0.53
2:B:233:ASN:O	2:B:236:THR:HG22	2.08	0.53
2:B:444:ARG:HG2	2:B:444:ARG:NH1	2.23	0.53
3:C:276:LEU:C	3:C:278:ALA:N	2.65	0.53
3:C:418:ASN:HD22	3:C:418:ASN:H	1.57	0.53
3:C:472:LEU:O	3:C:473:ASP:HB2	2.08	0.53
23:C:1028:CLA:H2A	23:C:1028:CLA:O1D	2.07	0.53
23:C:1033:CLA:H121	23:C:1033:CLA:H92	1.91	0.53
4:D:21:TRP:CE3	4:D:21:TRP:C	2.86	0.53
4:D:175:VAL:O	4:D:178:ILE:HG12	2.08	0.53
4:D:237:PRO:O	4:D:238:THR:HG22	2.08	0.53
4:D:273:PHE:O	4:D:274:VAL:C	2.52	0.53
6:F:41:GLN:HB2	9:J:31:GLY:HA3	1.90	0.53
7:H:13:PRO:O	7:H:14:LEU:C	2.52	0.53
14:T:1:MET:C	14:T:4:ILE:CG2	2.80	0.53
15:U:40:VAL:HG12	15:U:41:ASN:N	2.22	0.53
16:V:124:ALA:C	16:V:126:ILE:N	2.67	0.53
18:Y:21:GLN:C	18:Y:21:GLN:OE1	2.52	0.53
1:a:5140:ARG:HH22	27:a:6063:LHG:C2	2.10	0.53
1:a:5157:VAL:HG13	1:a:5172:MET:HB3	1.90	0.53
1:a:5317:TRP:C	1:a:5319:ASP:H	2.17	0.53
1:a:5320:ILE:O	1:a:5322:ASN:N	2.42	0.53
2:b:5006:HIS:HB2	23:b:6019:CLA:O1A	2.09	0.53
2:b:5100:LEU:HD11	2:b:5104:LEU:HD11	1.89	0.53
2:b:5135:MET:HA	2:b:5138:ILE:HD11	1.89	0.53
2:b:5281:ILE:CB	2:b:5302:ILE:HD13	2.37	0.53
2:b:5294:THR:CG2	2:b:5297:GLU:H	2.06	0.53
2:b:5447:TRP:O	2:b:5448:PHE:C	2.51	0.53
23:b:6014:CLA:CMB	23:b:6014:CLA:CBB	2.72	0.53
23:b:6020:CLA:H13	23:b:6020:CLA:C9	2.05	0.53
3:c:5035:TRP:C	3:c:5038:GLY:H	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5042:LEU:O	3:c:5151:TRP:HZ3	1.92	0.53
3:c:5270:ALA:HB1	3:c:5274:TYR:CE1	2.44	0.53
3:c:5451:ALA:C	3:c:5453:ALA:H	2.17	0.53
23:c:6029:CLA:H202	23:c:6030:CLA:H172	1.90	0.53
4:d:5123:ILE:HG22	4:d:5127:LEU:HD21	1.89	0.53
4:d:5209:LEU:O	4:d:5209:LEU:HD23	2.09	0.53
5:e:5012:ASP:O	5:e:5014:ILE:N	2.41	0.53
11:l:5024:ILE:HD11	12:m:5019:SER:N	2.23	0.53
13:o:5133:THR:HG23	13:o:5143:PRO:CA	2.37	0.53
15:u:5056:ASP:HA	15:u:5113:THR:O	2.08	0.53
20:z:5054:VAL:O	26:z:6053:BCR:H313	2.08	0.53
1:A:223:LEU:HD13	1:A:224:ILE:CG1	2.38	0.53
1:A:323:ARG:C	1:A:325:ASN:N	2.67	0.53
23:A:1003:CLA:C17	24:A:1038:PHO:C4	2.85	0.53
2:B:68:ARG:NE	23:B:1011:CLA:HED1	2.24	0.53
2:B:153:PHE:CA	23:B:1014:CLA:HMC3	2.38	0.53
2:B:355:PHE:HB2	2:B:371:THR:O	2.09	0.53
2:B:456:ALA:CB	30:H:1058:DGD:CIB	2.86	0.53
23:B:1022:CLA:O1D	23:B:1022:CLA:CGA	2.57	0.53
3:C:33:PHE:CD1	4:D:229:ALA:HB3	2.44	0.53
3:C:282:MET:CG	23:C:1025:CLA:H71	2.39	0.53
3:C:429:SER:HA	30:C:1056:DGD:C9A	2.39	0.53
23:C:1034:CLA:C17	23:C:1034:CLA:C14	2.49	0.53
4:D:134:ARG:HH21	4:D:137:GLY:HA2	1.73	0.53
23:D:1005:CLA:H161	29:D:1062:MGE:H251	1.91	0.53
9:J:10:LEU:HA	9:J:13:VAL:HG21	1.91	0.53
15:U:99:GLU:CD	15:U:99:GLU:N	2.65	0.53
16:V:82:THR:O	16:V:83:GLU:C	2.52	0.53
16:V:118:HIS:O	16:V:119:PRO:C	2.47	0.53
20:Z:1:MET:HE3	20:Z:4:LEU:HD11	1.89	0.53
1:a:5083:VAL:HG23	4:d:5314:PHE:CE1	2.43	0.53
23:a:6006:CLA:HBA1	30:c:6057:DGD:CFB	2.38	0.53
27:a:6063:LHG:H292	23:c:6032:CLA:H62	1.91	0.53
2:b:5449:THR:CG2	4:d:5291:LEU:HD21	2.35	0.53
2:b:5454:VAL:HG13	4:d:5284:ILE:HG12	1.89	0.53
23:b:6020:CLA:H12	23:b:6023:CLA:O2D	2.08	0.53
3:c:5140:LEU:HB3	3:c:5148:GLY:CA	2.38	0.53
3:c:5449:ARG:HB2	23:c:6029:CLA:HED3	1.90	0.53
23:c:6032:CLA:H92	23:c:6032:CLA:C5	2.36	0.53
4:d:5190:ASN:HD22	4:d:5296:TYR:HD1	1.56	0.53
4:d:5191:TRP:NE1	4:d:5197:HIS:CD2	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:d:6050:BCR:H392	26:d:6050:BCR:C22	2.36	0.53
13:o:5079:LYS:HE3	13:o:5089:ALA:CB	2.39	0.53
13:o:5209:ALA:O	13:o:5210:ARG:C	2.52	0.53
16:v:5072:THR:HG22	16:v:5075:ASN:H	1.73	0.53
1:A:78:ILE:CA	1:A:176:ILE:HD12	2.18	0.53
27:A:1063:LHG:H312	23:C:1034:CLA:H143	1.86	0.53
2:B:17:GLY:CA	2:B:123:PHE:CE2	2.85	0.53
3:C:276:LEU:O	3:C:278:ALA:N	2.41	0.53
3:C:289:PHE:HB3	3:C:297:TYR:CE2	2.43	0.53
3:C:369:LEU:O	3:C:369:LEU:HD13	2.09	0.53
10:K:28:ILE:CB	10:K:29:PRO:HD3	2.29	0.53
15:U:73:PRO:HB2	16:V:109:ASP:OD2	2.09	0.53
1:a:5167:SER:O	1:a:5169:SER:N	2.42	0.53
1:a:5214:MET:O	1:a:5217:SER:N	2.41	0.53
23:a:6003:CLA:HMC1	4:d:5182:LEU:HD13	1.91	0.53
2:b:5028:ALA:O	2:b:5031:ALA:HB3	2.09	0.53
2:b:5232:GLU:OE2	2:b:5469:ARG:NH1	2.42	0.53
23:b:6009:CLA:H12	26:h:6049:BCR:C15	2.29	0.53
23:b:6012:CLA:HBC2	23:b:6012:CLA:CHD	2.33	0.53
23:b:6013:CLA:CMA	23:b:6014:CLA:HMA2	2.37	0.53
3:c:5034:ALA:O	3:c:5038:GLY:HA2	2.08	0.53
4:d:5141:TYR:C	4:d:5144:ILE:HG22	2.34	0.53
4:d:5161:PRO:HG3	4:d:5170:ALA:HB2	1.91	0.53
4:d:5331:PRO:HA	4:d:5339:PHE:HB2	1.91	0.53
23:d:6005:CLA:C16	29:d:6062:MGE:CGB	2.85	0.53
8:i:5008:VAL:O	8:i:5012:VAL:HG23	2.09	0.53
1:A:41:LEU:HD12	24:A:1038:PHO:H51	1.89	0.53
1:A:292:THR:CG2	1:A:293:MET:N	2.72	0.53
2:B:25:MET:HG2	2:B:111:ALA:CB	2.39	0.53
2:B:453:PHE:O	2:B:456:ALA:HB3	2.08	0.53
2:B:476:ARG:HG3	2:B:477:ASP:N	2.24	0.53
23:B:1011:CLA:HBB1	23:B:1011:CLA:CHC	2.16	0.53
3:C:84:GLN:HB2	3:C:86:LEU:HD13	1.91	0.53
3:C:124:VAL:HG23	3:C:125:LEU:HG	1.90	0.53
3:C:285:ILE:HG21	23:C:1025:CLA:H72	1.91	0.53
3:C:429:SER:CA	30:C:1056:DGD:HA91	2.39	0.53
4:D:122:LEU:HB3	4:D:150:ILE:HD11	1.89	0.53
5:E:30:LEU:CD1	6:F:32:PHE:HB2	2.38	0.53
5:E:37:PHE:CE2	5:E:43:ALA:HA	2.44	0.53
11:L:27:LEU:CD1	12:M:14:PHE:HZ	2.15	0.53
13:O:92:VAL:HG22	13:O:93:PRO:HD2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:V:105:PRO:HD3	16:V:120:SER:CB	2.39	0.53
16:V:128:PRO:C	16:V:130:MET:N	2.66	0.53
1:a:5259:ILE:O	1:a:5260:PHE:C	2.52	0.53
2:b:5099:VAL:HG13	23:b:6014:CLA:H92	1.91	0.53
2:b:5235:LEU:O	2:b:5239:ILE:HG13	2.09	0.53
2:b:5480:ASP:C	2:b:5482:GLU:H	2.17	0.53
3:c:5131:TYR:O	3:c:5133:ALA:N	2.41	0.53
3:c:5150:ASP:HB3	3:c:5153:ASP:HB2	1.91	0.53
3:c:5376:ASP:O	3:c:5380:ILE:HG22	2.09	0.53
4:d:5104:TRP:CZ3	4:d:5110:LEU:CD2	2.90	0.53
5:e:5005:THR:C	5:e:5007:GLU:H	2.17	0.53
5:e:5032:ILE:HD12	5:e:5032:ILE:C	2.33	0.53
8:i:5027:ASP:HB3	8:i:5028:PRO:HD3	1.89	0.53
13:o:5183:LEU:HD12	13:o:5183:LEU:H	1.74	0.53
14:t:5001:MET:O	14:t:5002:GLU:HB3	2.07	0.53
15:u:5042:VAL:HG23	15:u:5043:VAL:H	1.72	0.53
1:A:131:TRP:CE3	1:A:132:GLU:HA	2.44	0.53
1:A:131:TRP:CE3	1:A:132:GLU:N	2.77	0.53
1:A:268:SER:CB	4:D:236:ASN:HD21	2.22	0.53
2:B:258:TYR:OH	4:D:162:LEU:HB3	2.09	0.53
3:C:72:LEU:HD23	3:C:108:THR:HB	1.90	0.53
3:C:117:VAL:O	3:C:117:VAL:HG12	2.08	0.53
3:C:135:ARG:NH1	20:Z:33:TRP:CG	2.77	0.53
3:C:268:GLY:C	23:C:1033:CLA:HBC1	2.34	0.53
3:C:441:HIS:CD2	3:C:442:LEU:HD23	2.43	0.53
23:C:1026:CLA:HBA1	23:C:1027:CLA:CMC	2.39	0.53
23:C:1034:CLA:H71	23:C:1034:CLA:H43	1.83	0.53
4:D:291:LEU:O	4:D:293:LEU:N	2.41	0.53
8:I:13:THR:HG23	8:I:14:PHE:N	2.24	0.53
10:K:35:LEU:HD12	10:K:38:VAL:CG2	2.38	0.53
13:O:208:LEU:O	13:O:209:ALA:C	2.52	0.53
15:U:97:LEU:HB3	15:U:102:LYS:CG	2.36	0.53
18:Y:19:ILE:CG2	18:Y:20:ALA:N	2.72	0.53
20:Z:9:LEU:C	20:Z:9:LEU:HD22	2.34	0.53
20:Z:15:LEU:O	20:Z:18:VAL:HB	2.07	0.53
20:Z:39:LEU:HD12	20:Z:42:LEU:HB2	1.91	0.53
23:a:6003:CLA:C3D	23:d:6005:CLA:HAC2	2.38	0.53
2:b:5024:THR:OG1	23:b:6020:CLA:H11	2.09	0.53
2:b:5115:TRP:H	2:b:5115:TRP:HD1	1.55	0.53
2:b:5142:LEU:HA	2:b:5145:LEU:CD2	2.39	0.53
2:b:5343:PHE:CG	2:b:5396:VAL:HG12	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5382:ARG:HH11	2:b:5382:ARG:HG3	1.74	0.53
3:c:5061:VAL:CG2	23:c:6027:CLA:HMD3	2.38	0.53
3:c:5069:LEU:O	3:c:5073:ALA:HB2	2.09	0.53
3:c:5204:LEU:HD11	3:c:5238:ILE:HG21	1.89	0.53
3:c:5269:GLU:OE2	3:c:5447:ARG:HD2	2.08	0.53
4:d:5189:HIS:CD2	4:d:5289:LEU:HD12	2.44	0.53
13:o:5056:TYR:HD1	13:o:5232:GLY:O	1.92	0.53
15:u:5057:LEU:HD22	15:u:5079:ILE:CG2	2.39	0.53
16:v:5132:ASN:O	16:v:5133:LEU:O	2.26	0.53
1:A:121:LEU:O	1:A:124:SER:HB2	2.08	0.53
1:A:193:LEU:O	4:D:179:PHE:CE2	2.62	0.53
1:A:265:PHE:CZ	27:A:1063:LHG:H152	2.44	0.53
2:B:465:GLY:HA3	23:B:1019:CLA:HBC2	1.88	0.53
3:C:54:VAL:O	3:C:54:VAL:HG12	2.09	0.53
3:C:135:ARG:HH12	20:Z:33:TRP:CG	2.27	0.53
3:C:289:PHE:CZ	23:C:1025:CLA:HMA3	2.44	0.53
23:C:1036:CLA:H151	26:Z:1053:BCR:H361	1.91	0.53
4:D:166:SER:OG	4:D:167:TRP:N	2.42	0.53
5:E:38:VAL:HG12	6:F:39:ALA:HB1	1.91	0.53
12:M:1:MET:CE	12:M:1:MET:H3	2.04	0.53
13:O:188:ARG:HA	13:O:194:TYR:O	2.09	0.53
14:T:8:PHE:O	14:T:10:PHE:N	2.42	0.53
15:U:113:THR:HG22	15:U:114:VAL:H	1.73	0.53
20:Z:12:LEU:CD1	20:Z:51:VAL:HB	2.39	0.53
1:a:5095:PRO:O	1:a:5097:TRP:N	2.41	0.53
1:a:5125:CYS:O	1:a:5129:ARG:N	2.40	0.53
1:a:5127:MET:O	1:a:5130:GLN:HB3	2.09	0.53
1:a:5147:TYR:HA	24:d:6038:PHO:HMD3	1.90	0.53
1:a:5148:SER:OG	1:a:5284:TRP:NE1	2.42	0.53
1:a:5212:CYS:SG	4:d:5271:MET:HE2	2.49	0.53
24:a:6039:PHO:C14	4:d:5173:PHE:HD1	2.22	0.53
2:b:5135:MET:SD	23:b:6023:CLA:CBC	2.97	0.53
2:b:5382:ARG:HA	2:b:5385:SER:OG	2.08	0.53
2:b:5448:PHE:O	2:b:5452:HIS:ND1	2.32	0.53
3:c:5056:HIS:O	3:c:5058:GLY:N	2.42	0.53
3:c:5305:THR:CG2	3:c:5308:GLU:HB2	2.23	0.53
13:o:5066:ILE:HG22	13:o:5269:ILE:HA	1.90	0.53
17:x:5029:VAL:O	17:x:5033:THR:HG22	2.08	0.53
20:z:5041:PHE:HA	20:z:5044:SER:HB2	1.91	0.53
20:z:5051:VAL:HG13	20:z:5052:LEU:N	2.24	0.53
1:A:196:PRO:C	1:A:199:GLN:CG	2.82	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:219:VAL:CG2	1:A:220:THR:H	2.20	0.52
1:A:219:VAL:CG2	1:A:220:THR:N	2.71	0.52
1:A:316:THR:O	1:A:317:TRP:C	2.51	0.52
2:B:75:TRP:CB	2:B:94:GLU:HG3	2.38	0.52
2:B:149:LEU:CG	23:B:1011:CLA:HBC1	2.39	0.52
2:B:346:PHE:CG	2:B:399:VAL:HG12	2.45	0.52
2:B:362:PHE:HE1	4:D:184:PHE:CE1	2.27	0.52
2:B:367:PRO:HB2	4:D:345:VAL:HG12	1.90	0.52
3:C:311:GLN:OE1	3:C:355:THR:HG22	2.09	0.52
23:C:1028:CLA:H71	30:C:1056:DGD:HA71	1.92	0.52
23:C:1029:CLA:H202	23:C:1030:CLA:H172	1.90	0.52
30:C:1056:DGD:CIB	30:C:1056:DGD:HB41	2.39	0.52
4:D:196:PHE:O	4:D:197:HIS:C	2.52	0.52
4:D:298:PHE:O	4:D:299:ILE:C	2.52	0.52
5:E:82:GLN:O	5:E:84:LYS:N	2.41	0.52
7:H:37:LEU:HD12	7:H:37:LEU:N	2.24	0.52
10:K:24:VAL:O	10:K:24:VAL:HG12	2.08	0.52
26:K:1052:BCR:C38	26:K:1052:BCR:C23	2.59	0.52
13:O:208:LEU:HD12	13:O:208:LEU:N	2.23	0.52
16:V:48:THR:C	16:V:50:LYS:N	2.63	0.52
16:V:152:LEU:O	16:V:153:GLY:C	2.52	0.52
1:a:5048:PHE:CD1	1:a:5048:PHE:C	2.87	0.52
1:a:5161:TYR:HB3	1:a:5162:PRO:HD3	1.89	0.52
1:a:5260:PHE:O	1:a:5261:GLN:O	2.26	0.52
1:a:5274:PHE:O	1:a:5277:ALA:N	2.43	0.52
2:b:5048:VAL:HG12	2:b:5049:LEU:HG	1.90	0.52
2:b:5119:LEU:O	2:b:5119:LEU:HD22	2.09	0.52
2:b:5146:LEU:CB	23:b:6011:CLA:HBC1	2.38	0.52
2:b:5226:LEU:CD2	2:b:5228:MET:HB3	2.39	0.52
2:b:5387:TYR:N	2:b:5387:TYR:HD1	2.07	0.52
3:c:5248:GLY:C	3:c:5252:ILE:HD12	2.34	0.52
3:c:5279:LEU:CD1	3:c:5437:PHE:HE1	2.22	0.52
23:c:6028:CLA:HMA1	23:c:6028:CLA:CGA	2.40	0.52
4:d:5223:PHE:CZ	4:d:5245:SER:HB2	2.44	0.52
5:e:5021:VAL:O	5:e:5025:ILE:HG13	2.10	0.52
9:j:5030:TYR:O	9:j:5032:ALA:N	2.43	0.52
13:o:5230:VAL:HG22	13:o:5237:ILE:CB	2.38	0.52
1:A:328:MET:SD	4:D:325:ILE:CD1	2.97	0.52
23:B:1022:CLA:H62	26:B:1045:BCR:C20	2.38	0.52
4:D:158:LEU:C	4:D:161:PRO:HD2	2.34	0.52
4:D:209:LEU:C	4:D:209:LEU:CD2	2.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:E:1040:HEM:NC	6:F:24:HIS:CE1	2.76	0.52
7:H:40:VAL:HG13	7:H:41:PHE:N	2.24	0.52
23:H:1017:CLA:HAA1	23:H:1017:CLA:HBD	1.92	0.52
9:J:11:TRP:HH2	18:Y:37:PHE:HA	1.73	0.52
11:L:23:LEU:HB2	29:L:1061:MGE:H202	1.91	0.52
20:Z:37:LYS:HD3	20:Z:37:LYS:C	2.34	0.52
1:a:5071:LEU:HD21	14:t:5006:TYR:CD2	2.44	0.52
1:a:5130:GLN:HG3	1:a:5130:GLN:O	2.09	0.52
1:a:5155:PHE:HE1	30:c:6055:DGD:HAT2	1.74	0.52
1:a:5231:GLU:HG2	1:a:5235:TYR:HE1	1.73	0.52
1:a:5243:GLU:HA	4:d:5241:GLU:HB3	1.90	0.52
2:b:5091:GLU:O	2:b:5092:GLY:C	2.53	0.52
2:b:5091:GLU:O	2:b:5094:ALA:N	2.42	0.52
2:b:5344:ARG:HG2	2:b:5349:GLU:O	2.09	0.52
3:c:5126:GLY:CA	26:k:6052:BCR:H363	2.38	0.52
3:c:5270:ALA:O	3:c:5274:TYR:CD1	2.63	0.52
23:c:6033:CLA:H121	23:c:6033:CLA:H92	1.91	0.52
23:c:6035:CLA:C12	10:k:5032:PHE:HE1	2.19	0.52
23:c:6036:CLA:C19	26:z:6053:BCR:C37	2.86	0.52
4:d:5261:PHE:CE2	4:d:5267:LEU:HA	2.44	0.52
13:o:5148:VAL:HG12	13:o:5151:LEU:HB2	1.91	0.52
17:x:5042:GLN:O	17:x:5043:ILE:HG13	2.09	0.52
1:A:33:PHE:HE1	8:I:23:PHE:HE2	1.57	0.52
1:A:204:GLY:O	1:A:207:GLY:N	2.38	0.52
2:B:9:HIS:CD2	23:B:1020:CLA:HBB2	2.44	0.52
2:B:44:THR:O	2:B:44:THR:HG22	2.09	0.52
2:B:454:ALA:HB3	23:B:1015:CLA:CBB	2.39	0.52
30:C:1055:DGD:C3B	30:C:1055:DGD:C7B	2.86	0.52
4:D:314:PHE:O	4:D:317:LYS:N	2.43	0.52
1:a:5159:LEU:C	1:a:5162:PRO:HD2	2.33	0.52
2:b:5084:ASP:CG	2:b:5084:ASP:O	2.53	0.52
2:b:5135:MET:O	2:b:5138:ILE:HD12	2.09	0.52
2:b:5144:GLY:O	2:b:5148:PHE:N	2.38	0.52
2:b:5413:THR:O	2:b:5416:SER:N	2.42	0.52
4:d:5043:LEU:O	4:d:5047:GLY:N	2.32	0.52
4:d:5218:VAL:O	4:d:5222:LEU:HG	2.08	0.52
6:f:5040:MET:C	6:f:5042:PHE:N	2.66	0.52
7:h:5020:LYS:O	7:h:5020:LYS:HG3	2.09	0.52
8:i:5016:VAL:O	8:i:5020:VAL:HG23	2.08	0.52
10:k:5028:ILE:CD1	18:y:5010:ILE:CD1	2.85	0.52
10:k:5035:LEU:HA	10:k:5038:VAL:HG21	1.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5071:LEU:HD12	13:o:5071:LEU:N	2.25	0.52
13:o:5176:SER:O	13:o:5178:ARG:N	2.42	0.52
20:z:5003:ILE:H	20:z:5003:ILE:CD1	2.22	0.52
2:B:468:TRP:CD1	2:B:469:HIS:ND1	2.76	0.52
23:B:1013:CLA:HHB	23:B:1014:CLA:HMA3	1.91	0.52
3:C:255:THR:OG1	3:C:256:PRO:HD2	2.08	0.52
3:C:279:LEU:N	3:C:282:MET:HE3	2.25	0.52
23:C:1027:CLA:HED1	23:C:1036:CLA:H192	1.91	0.52
30:C:1057:DGD:HAF2	29:J:1059:MGE:H242	1.92	0.52
4:D:199:MET:O	4:D:202:ALA:N	2.43	0.52
4:D:212:ALA:O	4:D:213:ILE:C	2.52	0.52
4:D:281:MET:O	4:D:282:SER:C	2.52	0.52
8:I:4:LEU:HD12	8:I:7:THR:HG1	1.75	0.52
14:T:8:PHE:C	14:T:10:PHE:N	2.66	0.52
1:a:5127:MET:HB2	1:a:5147:TYR:CE1	2.44	0.52
1:a:5274:PHE:C	1:a:5276:ALA:H	2.16	0.52
2:b:5078:THR:HB	2:b:5080:GLU:HG3	1.90	0.52
2:b:5221:ARG:HG2	7:h:5025:TRP:CD1	2.45	0.52
2:b:5228:MET:HA	2:b:5233:THR:CG2	2.26	0.52
23:b:6013:CLA:H71	23:b:6018:CLA:H42	1.91	0.52
23:b:6016:CLA:H203	23:d:6008:CLA:HMA3	1.92	0.52
23:b:6021:CLA:H42	23:b:6021:CLA:CMA	2.40	0.52
3:c:5072:LEU:O	3:c:5072:LEU:HD22	2.09	0.52
3:c:5405:ASN:O	3:c:5406:SER:C	2.51	0.52
23:c:6033:CLA:H192	23:c:6033:CLA:H151	0.71	0.52
4:d:5166:SER:OG	4:d:5167:TRP:N	2.42	0.52
4:d:5213:ILE:O	4:d:5213:ILE:HD12	2.09	0.52
29:d:6061:MGE:H261	11:l:5026:VAL:HG21	1.92	0.52
13:o:5178:ARG:CZ	13:o:5182:PHE:CZ	2.93	0.52
13:o:5186:LYS:HA	13:o:5186:LYS:NZ	2.23	0.52
1:A:99:ALA:HB1	1:A:105:TRP:N	2.25	0.52
1:A:207:GLY:O	1:A:210:LEU:N	2.43	0.52
2:B:143:LEU:O	2:B:144:PHE:C	2.52	0.52
2:B:456:ALA:HB1	4:D:287:VAL:HG21	1.90	0.52
23:B:1023:CLA:H52	26:B:1048:BCR:H342	1.91	0.52
26:B:1047:BCR:H23C	26:t:1046:BCR:H352	1.91	0.52
3:C:57:ALA:C	3:C:60:ILE:HG22	2.35	0.52
3:C:223:TRP:CB	3:C:224:ILE:HD13	2.27	0.52
3:C:350:ILE:HD12	3:C:356:MET:HA	1.90	0.52
5:E:43:ALA:O	5:E:46:VAL:HB	2.10	0.52
13:O:187:GLY:C	13:O:194:TYR:HB2	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5149:ALA:HB1	1:a:5283:VAL:HG11	1.91	0.52
2:b:5132:LEU:O	2:b:5134:LYS:N	2.42	0.52
2:b:5330:GLY:CA	2:b:5441:ARG:HE	2.22	0.52
3:c:5079:LYS:O	3:c:5080:PRO:C	2.52	0.52
30:c:6056:DGD:C6D	30:c:6056:DGD:C4E	2.87	0.52
4:d:5153:PHE:C	4:d:5153:PHE:CD1	2.87	0.52
12:m:5020:VAL:HG13	12:m:5021:PHE:N	2.23	0.52
13:o:5068:ARG:HH21	13:o:5105:ASP:CG	2.18	0.52
16:v:5148:GLU:O	16:v:5149:PRO:C	2.52	0.52
17:x:5043:ILE:O	17:x:5043:ILE:CG2	2.57	0.52
20:z:5001:MET:HE3	20:z:5004:LEU:HD11	1.91	0.52
1:A:323:ARG:HH11	1:A:323:ARG:CG	2.16	0.52
2:B:25:MET:HG2	2:B:111:ALA:HB1	1.92	0.52
2:B:99:ALA:O	2:B:102:VAL:CG1	2.54	0.52
2:B:243:ALA:HA	2:B:246:PHE:CD2	2.45	0.52
2:B:454:ALA:HB3	23:B:1015:CLA:HBB2	1.92	0.52
23:B:1009:CLA:CGD	23:B:1009:CLA:CGA	2.86	0.52
23:B:1010:CLA:HMD1	23:B:1011:CLA:C8	2.32	0.52
23:B:1014:CLA:O2D	23:B:1014:CLA:HAA1	2.08	0.52
23:B:1019:CLA:HBC3	23:B:1019:CLA:HHD	1.92	0.52
3:C:203:THR:HG23	3:C:203:THR:O	2.08	0.52
3:C:245:ILE:C	3:C:247:GLY:N	2.68	0.52
3:C:268:GLY:O	23:C:1033:CLA:HBC1	2.09	0.52
4:D:87:HIS:O	4:D:167:TRP:NE1	2.43	0.52
4:D:180:ARG:HD2	4:D:180:ARG:C	2.35	0.52
7:H:41:PHE:O	7:H:42:LEU:C	2.52	0.52
8:I:5:LYS:O	8:I:8:VAL:HB	2.10	0.52
26:K:1051:BCR:H392	26:K:1051:BCR:C22	2.36	0.52
13:O:128:ASP:O	13:O:147:THR:HA	2.09	0.52
18:Y:39:LEU:HD11	20:Z:28:ALA:HB3	1.91	0.52
20:Z:35:ARG:CD	20:Z:36:SER:N	2.73	0.52
1:a:5149:ALA:N	1:a:5150:PRO:CD	2.73	0.52
1:a:5155:PHE:CE1	30:c:6055:DGD:HAT2	2.45	0.52
2:b:5105:PHE:HD2	2:b:5106:LEU:N	2.08	0.52
2:b:5144:GLY:O	2:b:5147:CYS:HB3	2.09	0.52
2:b:5219:PRO:HB2	7:h:5025:TRP:O	2.09	0.52
3:c:5146:PHE:C	3:c:5148:GLY:H	2.18	0.52
3:c:5230:LEU:HD12	3:c:5233:VAL:CG1	2.39	0.52
3:c:5337:LEU:HD23	13:o:5131:PRO:HG3	1.91	0.52
3:c:5428:THR:OG1	30:c:6056:DGD:HAE1	2.10	0.52
23:c:6034:CLA:HED3	10:k:5029:PRO:HB2	1.82	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5111:TRP:NE1	4:d:5173:PHE:CE2	2.78	0.52
23:d:6005:CLA:H202	23:d:6005:CLA:C15	2.01	0.52
29:d:6061:MGE:H3B1	29:d:6061:MGE:C7B	2.34	0.52
6:f:5028:VAL:N	6:f:5029:PRO:HD2	2.25	0.52
12:m:5031:SER:C	12:m:5033:GLN:N	2.65	0.52
13:o:5036:ILE:HG23	13:o:5041:LEU:CG	2.39	0.52
16:v:5149:PRO:HD3	16:v:5156:TRP:CD1	2.45	0.52
1:A:25:ASP:HA	4:D:251:ARG:HH21	1.74	0.52
1:A:214:MET:HE1	24:A:1039:PHO:CGD	2.39	0.52
1:A:281:VAL:HG13	1:A:282:GLY:N	2.25	0.52
23:A:1003:CLA:C3D	23:D:1005:CLA:CAC	2.88	0.52
23:A:1006:CLA:H18	26:D:1050:BCR:H292	1.90	0.52
2:B:5:TRP:HB2	23:B:1019:CLA:H42	1.91	0.52
2:B:11:VAL:HG11	11:L:7:ARG:HH11	1.74	0.52
2:B:153:PHE:HA	23:B:1014:CLA:CMC	2.40	0.52
2:B:217:ILE:HG23	2:B:218:LEU:HD23	1.90	0.52
2:B:453:PHE:O	2:B:456:ALA:CB	2.58	0.52
2:B:475:PHE:CE2	4:D:134:ARG:HD2	2.45	0.52
23:B:1010:CLA:H41	7:H:46:LEU:HA	1.92	0.52
3:C:199:ILE:H	3:C:199:ILE:CD1	2.23	0.52
23:C:1032:CLA:H2	23:C:1035:CLA:C3C	2.40	0.52
4:D:52:THR:O	4:D:76:VAL:HG11	2.09	0.52
4:D:128:ARG:HH11	4:D:128:ARG:HG3	1.75	0.52
4:D:144:ILE:CG2	4:D:145:ALA:N	2.73	0.52
5:E:22:ILE:O	5:E:22:ILE:HG23	2.10	0.52
13:O:242:GLU:HA	13:O:261:ILE:O	2.10	0.52
16:V:34:LEU:HB3	16:V:47:LEU:HB2	1.92	0.52
16:V:68:VAL:C	16:V:70:GLY:N	2.68	0.52
1:a:5258:LEU:HD12	4:d:5128:ARG:HH11	1.74	0.52
23:a:6006:CLA:C18	26:d:6050:BCR:C29	2.88	0.52
2:b:5047:PRO:O	2:b:5305:LYS:NZ	2.41	0.52
2:b:5118:GLU:OE1	7:h:5004:ARG:HA	2.10	0.52
2:b:5166:SER:HB2	2:b:5173:GLY:HA2	1.91	0.52
23:b:6023:CLA:H52	26:b:6048:BCR:H342	1.91	0.52
3:c:5135:ARG:HB2	20:z:5027:TYR:HB3	1.92	0.52
3:c:5317:PHE:HE1	16:v:5076:PRO:HD2	1.74	0.52
3:c:5374:GLY:O	3:c:5375:LEU:C	2.51	0.52
3:c:5453:ALA:HB1	3:c:5455:PHE:CE2	2.45	0.52
23:c:6032:CLA:HED1	23:c:6032:CLA:HMA1	1.91	0.52
23:c:6032:CLA:H2	23:c:6035:CLA:C3C	2.40	0.52
4:d:5036:LEU:HD11	4:d:5120:PHE:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5261:PHE:CE2	4:d:5266:TRP:HD1	2.27	0.52
5:e:5008:ARG:CB	5:e:5009:PRO:HD2	2.40	0.52
12:m:5014:PHE:O	12:m:5018:PRO:HG3	2.09	0.52
13:o:5150:ASN:CB	13:o:5173:ASN:ND2	2.73	0.52
14:t:5004:ILE:HD13	14:t:5004:ILE:H	1.75	0.52
15:u:5057:LEU:HD11	15:u:5112:PHE:HB3	1.92	0.52
1:A:260:PHE:O	1:A:263:ALA:HB3	2.10	0.52
2:B:141:ILE:O	2:B:142:HIS:C	2.53	0.52
2:B:158:LEU:HD13	2:B:199:VAL:HG22	1.92	0.52
2:B:465:GLY:HA2	2:B:468:TRP:HB3	1.91	0.52
2:B:471:ALA:HB1	4:D:140:PRO:HG3	1.91	0.52
23:B:1021:CLA:H42	23:B:1021:CLA:CMA	2.40	0.52
3:C:36:TRP:CG	3:C:37:ALA:H	2.26	0.52
3:C:39:ASN:HD21	23:C:1033:CLA:HBB2	1.75	0.52
4:D:90:LEU:HD13	4:D:109:GLY:CA	2.40	0.52
4:D:111:TRP:O	4:D:112:THR:C	2.51	0.52
4:D:181:PHE:O	4:D:184:PHE:HB3	2.09	0.52
7:H:13:PRO:O	7:H:16:SER:N	2.43	0.52
7:H:44:ILE:HG22	17:X:19:PHE:HZ	1.75	0.52
10:K:26:PRO:O	10:K:29:PRO:CD	2.37	0.52
14:T:1:MET:HA	14:T:4:ILE:CG2	2.40	0.52
26:T:6046:BCR:C8	26:T:6046:BCR:C32	2.87	0.52
16:V:105:PRO:HD3	16:V:120:SER:HB2	1.90	0.52
20:Z:38:GLN:C	20:Z:40:ILE:N	2.67	0.52
26:a:6044:BCR:H312	8:i:5015:PHE:HZ	1.75	0.52
2:b:5188:ASN:HD21	2:b:5190:TYR:HD2	1.58	0.52
2:b:5250:ALA:O	30:h:6058:DGD:HBW2	2.10	0.52
23:b:6011:CLA:CAD	23:b:6011:CLA:CED	2.88	0.52
23:b:6013:CLA:HHB	23:b:6014:CLA:HMA3	1.91	0.52
23:b:6017:CLA:HAA1	23:b:6017:CLA:HBD	1.92	0.52
3:c:5173:LEU:HD21	3:c:5241:GLY:HA3	1.92	0.52
4:d:5044:ALA:C	4:d:5046:GLY:N	2.64	0.52
4:d:5100:ASP:O	4:d:5101:PHE:C	2.52	0.52
4:d:5196:PHE:HD2	4:d:5284:ILE:HB	1.75	0.52
4:d:5201:VAL:HA	23:d:6004:CLA:HMB3	1.91	0.52
13:o:5215:ARG:HG2	13:o:5215:ARG:HH11	1.74	0.52
15:u:5062:ILE:HG22	15:u:5063:ALA:N	2.25	0.52
15:u:5071:LEU:HD12	15:u:5071:LEU:N	2.25	0.52
18:y:5021:LEU:CD2	20:z:5025:VAL:HG22	2.39	0.52
20:z:5052:LEU:O	20:z:5055:GLY:HA3	2.09	0.52
1:A:280:VAL:HA	1:A:283:VAL:HG13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:A:1006:CLA:HBA1	30:C:1057:DGD:CFB	2.40	0.52
23:B:1012:CLA:CED	23:B:1012:CLA:C2A	2.77	0.52
26:B:1045:BCR:H392	26:B:1045:BCR:C22	2.35	0.52
3:C:64:ALA:HA	23:C:1027:CLA:HBC2	1.92	0.52
3:C:140:LEU:HB3	3:C:148:GLY:CA	2.39	0.52
3:C:156:LYS:O	3:C:160:ILE:HG13	2.10	0.52
3:C:456:GLU:O	3:C:457:LYS:CB	2.57	0.52
9:J:18:GLY:O	9:J:22:ILE:HB	2.10	0.52
15:U:114:VAL:HG12	15:U:115:THR:N	2.25	0.52
1:a:5261:GLN:O	1:a:5263:ALA:N	2.38	0.52
2:b:5006:HIS:ND1	23:b:6019:CLA:H11	2.24	0.52
2:b:5065:ARG:HG2	2:b:5066:LEU:H	1.75	0.52
2:b:5129:ALA:HB1	7:h:5018:TYR:CE2	2.45	0.52
2:b:5231:ILE:HD12	2:b:5234:VAL:HG11	1.91	0.52
23:b:6010:CLA:C4	7:h:5046:LEU:CA	2.87	0.52
23:b:6010:CLA:HMD1	23:b:6011:CLA:C8	2.32	0.52
29:b:6060:MGE:H102	29:d:6061:MGE:H8A2	1.92	0.52
3:c:5286:ALA:O	3:c:5289:PHE:N	2.39	0.52
3:c:5350:ILE:HD13	3:c:5351:PHE:O	2.10	0.52
23:c:6028:CLA:H71	30:c:6056:DGD:HA71	1.91	0.52
4:d:5085:MET:HE1	5:e:5069:ARG:O	2.10	0.52
4:d:5156:VAL:C	4:d:5157:PHE:HD1	2.18	0.52
4:d:5210:LEU:CA	4:d:5213:ILE:HG22	2.35	0.52
8:i:5013:THR:CG2	8:i:5014:PHE:N	2.73	0.52
10:k:5031:LEU:O	26:k:6051:BCR:C14	2.58	0.52
13:o:5208:LEU:O	13:o:5209:ALA:C	2.52	0.52
16:v:5087:LEU:O	16:v:5088:ALA:O	2.28	0.52
1:A:92:HIS:HD2	3:C:220:GLY:N	2.08	0.52
23:A:1003:CLA:C16	24:A:1038:PHO:H62	2.40	0.52
2:B:106:LEU:CD1	26:B:1048:BCR:H352	2.39	0.52
2:B:144:PHE:HB2	2:B:213:GLY:HA3	1.92	0.52
2:B:468:TRP:HA	4:D:144:ILE:HD11	1.91	0.52
3:C:35:TRP:CG	3:C:36:TRP:N	2.77	0.52
30:C:1056:DGD:C6D	30:C:1056:DGD:C4E	2.87	0.52
8:I:27:ASP:C	8:I:29:ALA:N	2.67	0.52
10:K:28:ILE:HA	10:K:31:LEU:HD11	1.79	0.52
20:Z:39:LEU:O	20:Z:39:LEU:HG	2.10	0.52
1:a:5113:GLN:O	1:a:5114:LEU:C	2.53	0.52
1:a:5235:TYR:C	1:a:5237:TYR:H	2.17	0.52
1:a:5332:HIS:O	1:a:5333:GLU:C	2.53	0.52
23:a:6003:CLA:C16	24:d:6038:PHO:H62	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:a:6003:CLA:C3D	23:d:6005:CLA:CAC	2.88	0.52
2:b:5100:LEU:C	2:b:5100:LEU:HD13	2.35	0.52
2:b:5119:LEU:HD22	2:b:5119:LEU:C	2.35	0.52
2:b:5253:MET:HE3	2:b:5448:PHE:HB3	1.92	0.52
3:c:5088:LEU:CG	23:c:6027:CLA:HBC2	2.39	0.52
3:c:5278:ALA:O	3:c:5281:MET:HB3	2.10	0.52
3:c:5308:GLU:HG3	3:c:5361:PHE:CZ	2.44	0.52
23:c:6026:CLA:C4D	23:c:6026:CLA:C20	2.85	0.52
4:d:5197:HIS:CE1	4:d:5201:VAL:CG2	2.93	0.52
4:d:5245:SER:C	4:d:5247:VAL:H	2.18	0.52
16:v:5128:PRO:C	16:v:5130:MET:H	2.16	0.52
16:v:5135:GLU:O	16:v:5139:VAL:HG22	2.09	0.52
1:A:83:VAL:CG2	4:D:314:PHE:HE1	2.22	0.51
1:A:91:LEU:HD13	1:A:167:SER:HA	1.92	0.51
1:A:320:ILE:C	1:A:322:ASN:N	2.67	0.51
27:A:1063:LHG:H292	23:C:1032:CLA:H62	1.91	0.51
2:B:55:MET:HG3	2:B:56:TRP:N	2.24	0.51
2:B:223:GLN:CD	7:H:24:GLY:HA2	2.35	0.51
2:B:478:VAL:HG13	2:B:482:ILE:HG22	1.92	0.51
2:B:483:ASP:C	2:B:485:GLU:H	2.18	0.51
23:B:1020:CLA:H2	23:B:1023:CLA:CBA	2.25	0.51
23:B:1023:CLA:CHA	23:B:1024:CLA:CMC	2.88	0.51
23:C:1032:CLA:H2	23:C:1035:CLA:CAC	2.40	0.51
30:C:1057:DGD:HAF2	29:J:1059:MGE:H222	1.93	0.51
4:D:68:LEU:O	4:D:68:LEU:HD23	2.10	0.51
4:D:277:THR:HG22	4:D:278:GLY:H	1.72	0.51
5:E:35:TRP:HZ3	6:F:38:ALA:CB	2.20	0.51
10:K:35:LEU:HA	10:K:38:VAL:HG23	1.91	0.51
13:O:59:ASP:O	13:O:60:SER:CB	2.57	0.51
15:U:58:ASN:C	15:U:59:ASN:OD1	2.54	0.51
1:a:5148:SER:OG	1:a:5284:TRP:CZ2	2.63	0.51
1:a:5148:SER:CB	1:a:5284:TRP:HE1	2.23	0.51
2:b:5230:ASN:HD22	2:b:5230:ASN:C	2.16	0.51
2:b:5429:PHE:N	2:b:5429:PHE:CD1	2.78	0.51
26:b:6045:BCR:H392	26:b:6045:BCR:C22	2.35	0.51
23:c:6027:CLA:CED	23:c:6036:CLA:C19	2.88	0.51
23:c:6036:CLA:H151	26:z:6053:BCR:H361	1.91	0.51
30:c:6056:DGD:CIB	30:c:6056:DGD:HB41	2.39	0.51
4:d:5094:GLY:O	4:d:5096:GLU:N	2.43	0.51
4:d:5158:LEU:O	4:d:5162:LEU:HD12	2.10	0.51
4:d:5185:PHE:HB3	4:d:5191:TRP:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:5026:LEU:HD22	6:f:5027:ALA:H	1.75	0.51
8:i:5034:ARG:HG3	8:i:5034:ARG:NH1	2.23	0.51
15:u:5039:LEU:HD12	15:u:5039:LEU:N	2.23	0.51
18:y:5001:ILE:CG2	18:y:5002:ALA:N	2.73	0.51
1:A:143:ILE:HD13	4:D:216:ALA:O	2.10	0.51
1:A:172:MET:HE1	1:A:179:THR:OG1	2.10	0.51
1:A:223:LEU:HD22	1:A:245:THR:O	2.10	0.51
2:B:59:GLY:H	2:B:329:PRO:CB	2.22	0.51
2:B:144:PHE:CA	2:B:213:GLY:HA3	2.40	0.51
2:B:373:LYS:HD3	2:B:374:ASN:H	1.75	0.51
2:B:460:LEU:CD2	4:D:280:TRP:CZ3	2.92	0.51
23:B:1023:CLA:C4D	23:B:1024:CLA:HMC2	2.40	0.51
3:C:70:PHE:O	3:C:74:HIS:CE1	2.63	0.51
23:C:1028:CLA:HMA1	23:C:1028:CLA:CGA	2.40	0.51
4:D:148:ALA:CB	4:D:276:VAL:HA	2.40	0.51
4:D:252:PHE:CD1	4:D:252:PHE:C	2.88	0.51
5:E:8:ARG:HG3	5:E:9:PRO:HD2	1.92	0.51
9:J:10:LEU:O	9:J:13:VAL:HG23	2.10	0.51
12:M:34:LYS:HD2	12:m:5032:GLN:NE2	2.25	0.51
15:U:129:ASN:C	15:U:131:GLY:N	2.67	0.51
15:U:133:TYR:CD1	16:V:76:PRO:HG3	2.44	0.51
1:a:5041:LEU:HD21	1:a:5122:GLY:C	2.35	0.51
1:a:5288:LEU:HD11	3:c:5435:PHE:CD2	2.45	0.51
2:b:5039:LEU:O	2:b:5041:THR:N	2.43	0.51
2:b:5180:PRO:HB3	2:b:5197:ALA:CA	2.40	0.51
2:b:5223:TYR:O	2:b:5223:TYR:HD2	1.93	0.51
2:b:5270:TYR:O	2:b:5274:SER:HB2	2.10	0.51
23:b:6012:CLA:CGA	23:b:6013:CLA:HBA2	2.39	0.51
3:c:5184:GLY:HA3	3:c:5198:VAL:HA	1.92	0.51
3:c:5337:LEU:HD13	3:c:5342:MET:SD	2.49	0.51
4:d:5130:PHE:HE2	4:d:5140:PRO:CB	2.19	0.51
4:d:5152:VAL:HG11	23:d:6004:CLA:H51	1.92	0.51
4:d:5196:PHE:HE2	4:d:5284:ILE:HG21	1.74	0.51
23:d:6005:CLA:H161	29:d:6062:MGE:H261	1.89	0.51
12:m:5011:THR:HG21	14:t:5005:THR:HG21	1.91	0.51
13:o:5127:ILE:HD12	13:o:5127:ILE:N	2.25	0.51
13:o:5152:VAL:O	13:o:5152:VAL:HG23	2.10	0.51
13:o:5176:SER:C	13:o:5178:ARG:N	2.68	0.51
15:u:5118:GLU:HB3	15:u:5121:LEU:HB2	1.91	0.51
20:z:5013:VAL:CG1	20:z:5014:ILE:H	2.23	0.51
1:A:205:VAL:HG22	1:A:279:ARG:NH1	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:27:THR:O	2:B:27:THR:HG22	2.11	0.51
3:C:250:TRP:NE1	23:C:1030:CLA:HED1	2.25	0.51
23:C:1027:CLA:CED	23:C:1036:CLA:C19	2.87	0.51
4:D:204:VAL:O	4:D:204:VAL:HG12	2.11	0.51
5:E:32:ILE:HD12	5:E:33:ALA:N	2.25	0.51
8:I:16:VAL:O	8:I:19:PHE:N	2.44	0.51
8:I:27:ASP:HA	8:I:30:ARG:HG2	1.93	0.51
11:L:27:LEU:HD12	12:M:14:PHE:CZ	2.30	0.51
15:U:69:ARG:O	15:U:71:LEU:HD12	2.10	0.51
1:a:5292:THR:CG2	1:a:5293:MET:N	2.72	0.51
2:b:5039:LEU:HD21	2:b:5091:GLU:OE2	2.11	0.51
2:b:5211:LEU:C	2:b:5214:ILE:HG22	2.33	0.51
2:b:5440:PHE:HD2	2:b:5440:PHE:O	1.93	0.51
2:b:5462:GLY:N	23:b:6019:CLA:HBC1	2.14	0.51
23:b:6012:CLA:C1	23:b:6013:CLA:H11	2.39	0.51
23:b:6016:CLA:H2	23:b:6017:CLA:C7	2.40	0.51
29:b:6060:MGE:H6D2	4:d:5269:PHE:CZ	2.46	0.51
3:c:5057:ALA:C	3:c:5060:ILE:HG22	2.35	0.51
3:c:5456:GLU:O	3:c:5457:LYS:CB	2.58	0.51
23:c:6026:CLA:C2B	23:c:6028:CLA:CBB	2.89	0.51
23:c:6034:CLA:C14	23:c:6034:CLA:H91	2.27	0.51
4:d:5083:ASN:HA	4:d:5166:SER:CB	2.40	0.51
4:d:5126:MET:HE3	4:d:5143:ALA:O	2.10	0.51
4:d:5239:GLN:O	4:d:5240:ALA:C	2.53	0.51
5:e:5042:LEU:O	5:e:5043:ALA:C	2.53	0.51
7:h:5038:PHE:O	7:h:5041:PHE:HB3	2.11	0.51
9:j:5021:VAL:O	9:j:5025:VAL:HG13	2.09	0.51
10:k:5028:ILE:HB	10:k:5029:PRO:HD3	1.92	0.51
13:o:5209:ALA:HA	13:o:5212:ASN:HB2	1.92	0.51
1:A:168:PHE:O	1:A:170:ASP:N	2.44	0.51
1:A:205:VAL:HG21	23:A:1003:CLA:HMA3	1.93	0.51
1:A:258:LEU:HD12	4:D:128:ARG:NH1	2.26	0.51
1:A:317:TRP:O	1:A:319:ASP:N	2.43	0.51
2:B:41:GLU:CD	2:B:62:VAL:H	2.19	0.51
2:B:193:TYR:CE1	2:B:259:GLY:HA3	2.44	0.51
2:B:357:ARG:HG3	2:B:357:ARG:NH1	2.19	0.51
23:B:1011:CLA:CBB	23:B:1011:CLA:HHC	2.22	0.51
23:B:1021:CLA:HMC3	23:B:1021:CLA:HBC2	1.93	0.51
3:C:234:VAL:C	3:C:236:GLY:H	2.18	0.51
4:D:233:ARG:O	4:D:233:ARG:HD2	2.10	0.51
7:H:31:MET:SD	23:H:1017:CLA:HBA2	2.49	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T:29:ILE:HD13	14:T:29:ILE:N	2.26	0.51
15:U:69:ARG:HG3	15:U:69:ARG:NH1	2.25	0.51
15:U:88:VAL:HG12	15:U:109:LEU:HD11	1.92	0.51
1:a:5261:GLN:C	1:a:5263:ALA:N	2.68	0.51
23:a:6006:CLA:HBA1	30:c:6057:DGD:HBN1	1.92	0.51
2:b:5180:PRO:HG3	2:b:5196:VAL:HB	1.93	0.51
2:b:5246:ALA:HB2	23:b:6012:CLA:CBC	2.39	0.51
3:c:5110:PRO:C	3:c:5113:VAL:HG13	2.36	0.51
30:c:6057:DGD:HAF2	29:d:6059:MGE:H242	1.92	0.51
4:d:5020:ASP:CA	4:d:5023:LYS:HE3	2.39	0.51
4:d:5113:PHE:CD1	4:d:5113:PHE:O	2.64	0.51
4:d:5209:LEU:HD11	24:d:6038:PHO:ND	2.25	0.51
26:d:6050:BCR:H372	29:d:6059:MGE:C6A	2.40	0.51
29:d:6061:MGE:H8B2	11:l:5023:LEU:HB2	1.92	0.51
6:f:5040:MET:HA	6:f:5043:ILE:CG1	2.41	0.51
8:i:5006:ILE:HG12	8:i:5007:THR:H	1.75	0.51
20:z:5013:VAL:CG1	20:z:5014:ILE:N	2.74	0.51
1:A:224:ILE:O	2:B:481:GLY:C	2.53	0.51
23:A:1007:CLA:H72	8:I:13:THR:HB	1.93	0.51
2:B:75:TRP:NE1	2:B:92:SER:HG	2.08	0.51
2:B:340:TRP:HA	2:B:430:PHE:CD2	2.46	0.51
2:B:389:LYS:HD2	2:B:390:TYR:CE1	2.46	0.51
3:C:233:VAL:HG13	3:C:234:VAL:N	2.26	0.51
23:C:1032:CLA:HBD	23:C:1032:CLA:HAA1	1.92	0.51
4:D:103:ARG:C	4:D:105:CYS:N	2.67	0.51
4:D:168:PHE:O	4:D:170:ALA:N	2.44	0.51
4:D:284:ILE:O	4:D:285:GLY:C	2.52	0.51
6:F:28:VAL:N	6:F:29:PRO:HD2	2.25	0.51
12:M:5:GLN:HG2	12:m:5005:GLN:HE21	1.75	0.51
13:O:65:ARG:NH2	13:O:66:ILE:H	2.07	0.51
1:a:5048:PHE:N	1:a:5115:ILE:HD11	2.25	0.51
1:a:5087:ASN:ND2	3:c:5357:ARG:CG	2.74	0.51
1:a:5166:GLY:HA2	3:c:5358:PHE:CE1	2.46	0.51
1:a:5205:VAL:CG1	1:a:5206:PHE:N	2.74	0.51
2:b:5363:PHE:HZ	4:d:5339:PHE:HE1	1.57	0.51
2:b:5382:ARG:CD	15:u:5044:ASP:HB3	2.22	0.51
23:b:6010:CLA:CMD	23:b:6011:CLA:H51	2.40	0.51
3:c:5044:ASN:O	3:c:5150:ASP:HA	2.09	0.51
3:c:5161:LEU:CD1	23:c:6030:CLA:HBB1	2.39	0.51
23:c:6033:CLA:C19	23:c:6036:CLA:CHD	2.89	0.51
4:d:5110:LEU:HA	4:d:5113:PHE:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k:5018:PHE:CE2	20:z:5009:LEU:HD11	2.45	0.51
26:k:6051:BCR:H392	26:k:6051:BCR:C22	2.36	0.51
11:l:5005:PRO:O	11:l:5007:ARG:N	2.43	0.51
11:l:5036:PHE:CE1	12:m:5008:PHE:CB	2.93	0.51
1:A:76:ASN:HB3	1:A:79:THR:OG1	2.11	0.51
24:A:1038:PHO:H143	23:D:1005:CLA:H201	1.92	0.51
2:B:92:SER:O	2:B:93:PHE:C	2.53	0.51
2:B:152:GLY:CA	2:B:155:ALA:HB3	2.36	0.51
2:B:458:PHE:HB3	23:B:1012:CLA:CMC	2.40	0.51
29:B:1060:MGE:H102	29:L:1061:MGE:H8A2	1.91	0.51
3:C:47:GLY:O	3:C:132:HIS:HB3	2.11	0.51
3:C:62:PHE:CZ	10:K:28:ILE:HG21	2.42	0.51
3:C:259:TRP:CZ3	3:C:260:ALA:HB2	2.45	0.51
3:C:295:THR:C	3:C:297:TYR:H	2.17	0.51
23:C:1033:CLA:C14	23:C:1033:CLA:C19	2.89	0.51
4:D:113:PHE:O	4:D:114:ILE:C	2.53	0.51
4:D:267:LEU:HD23	4:D:267:LEU:O	2.11	0.51
4:D:270:PHE:CZ	25:D:1042:PQ9:H243	2.46	0.51
5:E:38:VAL:CG1	6:F:39:ALA:HB1	2.40	0.51
5:E:68:ASP:HB2	5:E:69:ARG:NH2	2.25	0.51
9:J:10:LEU:HA	9:J:13:VAL:HG23	1.92	0.51
13:O:97:VAL:CG1	13:O:98:THR:N	2.74	0.51
1:a:5090:GLY:O	1:a:5092:HIS:N	2.43	0.51
1:a:5254:TYR:C	1:a:5254:TYR:CD2	2.88	0.51
23:b:6019:CLA:HBC3	23:b:6019:CLA:HHD	1.92	0.51
3:c:5056:HIS:C	3:c:5056:HIS:ND1	2.69	0.51
3:c:5106:VAL:HG13	3:c:5107:ASP:N	2.25	0.51
3:c:5114:VAL:HG12	3:c:5118:HIS:CD2	2.45	0.51
3:c:5315:MET:HE2	3:c:5365:TRP:CZ3	2.45	0.51
3:c:5322:GLN:NE2	3:c:5381:LYS:HA	2.24	0.51
26:c:6054:BCR:HC31	8:i:5024:LEU:HD21	1.92	0.51
30:c:6057:DGD:HAF2	29:d:6059:MGE:H222	1.92	0.51
4:d:5083:ASN:ND2	4:d:5169:PHE:HE2	2.09	0.51
6:f:5011:VAL:HG12	6:f:5012:SER:N	2.22	0.51
6:f:5042:PHE:CE1	9:j:5027:LEU:HD11	2.45	0.51
11:l:5028:ALA:O	11:l:5029:LEU:C	2.53	0.51
13:o:5077:LEU:HD12	13:o:5077:LEU:N	2.25	0.51
13:o:5186:LYS:HA	13:o:5186:LYS:HZ3	1.76	0.51
20:z:5019:MET:O	20:z:5023:VAL:HG23	2.09	0.51
1:A:36:ILE:HG22	1:A:125:CYS:SG	2.51	0.51
1:A:147:TYR:CA	1:A:150:PRO:HG2	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A:1038:PHO:CED	24:A:1038:PHO:CHA	2.86	0.51
2:B:80:ILE:O	2:B:80:ILE:CG1	2.59	0.51
2:B:258:TYR:HH	4:D:162:LEU:C	2.18	0.51
2:B:397:VAL:HG23	2:B:398:THR:N	2.24	0.51
23:B:1023:CLA:HBB1	23:B:1023:CLA:CHC	2.38	0.51
23:B:1023:CLA:H142	23:B:1024:CLA:H8	1.88	0.51
3:C:267:SER:O	3:C:271:TYR:CD2	2.64	0.51
3:C:366:LEU:O	3:C:369:LEU:N	2.44	0.51
3:C:451:ALA:O	3:C:453:ALA:N	2.44	0.51
23:C:1026:CLA:O1A	23:C:1026:CLA:C5	2.29	0.51
23:C:1033:CLA:C19	23:C:1036:CLA:CHD	2.89	0.51
4:D:195:PRO:CA	4:D:198:MET:HE2	2.40	0.51
4:D:293:LEU:O	4:D:293:LEU:HD13	2.11	0.51
13:O:254:HIS:O	13:O:255:GLU:C	2.54	0.51
1:a:5027:ARG:HH11	1:a:5027:ARG:CB	2.17	0.51
1:a:5272:HIS:HB2	1:a:5273:PHE:CD1	2.45	0.51
27:a:6063:LHG:C24	23:c:6032:CLA:HMD2	2.41	0.51
2:b:5066:LEU:HD12	23:b:6013:CLA:O1A	2.11	0.51
2:b:5167:ASP:O	2:b:5169:TYR:N	2.41	0.51
2:b:5475:VAL:HG12	4:d:5139:ARG:CD	2.37	0.51
23:b:6021:CLA:H202	29:b:6060:MGE:CDA	2.40	0.51
23:b:6023:CLA:CHA	23:b:6024:CLA:CMC	2.88	0.51
3:c:5362:ARG:HG3	3:c:5362:ARG:HH11	1.76	0.51
23:c:6025:CLA:H161	23:c:6031:CLA:HMB2	1.89	0.51
4:d:5089:LEU:CD2	4:d:5089:LEU:H	2.23	0.51
5:e:5031:PHE:CD1	5:e:5031:PHE:C	2.88	0.51
5:e:5035:TRP:O	5:e:5039:SER:N	2.41	0.51
10:k:5025:LEU:HB3	10:k:5026:PRO:CD	2.41	0.51
13:o:5118:SER:HA	13:o:5155:THR:HG22	1.93	0.51
13:o:5164:THR:O	13:o:5165:SER:HB2	2.10	0.51
13:o:5254:HIS:O	13:o:5255:GLU:C	2.53	0.51
16:v:5105:PRO:HG2	16:v:5114:ILE:C	2.36	0.51
20:z:5038:GLN:C	20:z:5040:ILE:H	2.19	0.51
1:A:45:THR:HG23	23:D:1005:CLA:H191	1.92	0.51
1:A:200:LEU:HA	1:A:203:ALA:CB	2.37	0.51
1:A:309:ALA:HB3	16:V:28:GLU:CB	2.41	0.51
1:A:339:PHE:HB3	3:C:313:GLN:OE1	2.11	0.51
2:B:256:MET:SD	2:B:268:PHE:CD1	3.04	0.51
2:B:362:PHE:CZ	4:D:169:PHE:CD1	2.99	0.51
3:C:79:LYS:HE2	3:C:83:GLU:HB3	1.92	0.51
3:C:161:LEU:CD1	23:C:1030:CLA:HBB1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:229:ASN:OD1	3:C:231:GLU:HG2	2.11	0.51
23:C:1036:CLA:C19	26:Z:1053:BCR:C37	2.86	0.51
4:D:218:VAL:HA	4:D:221:THR:HG22	1.92	0.51
5:E:71:GLU:HG3	5:E:74:GLN:HB3	1.93	0.51
14:T:1:MET:CA	14:T:4:ILE:HG22	2.40	0.51
15:U:112:PHE:N	15:U:112:PHE:CD2	2.76	0.51
16:V:125:ASP:HB3	16:V:131:ARG:HE	1.75	0.51
2:b:5010:ILE:HD12	2:b:5011:ASN:N	2.26	0.51
2:b:5012:ASP:C	2:b:5014:GLY:N	2.67	0.51
2:b:5451:ALA:HB3	23:b:6015:CLA:CBB	2.41	0.51
3:c:5045:LEU:HD21	3:c:5141:GLU:CG	2.28	0.51
3:c:5242:LEU:O	3:c:5246:ALA:N	2.35	0.51
3:c:5263:ALA:O	3:c:5264:PHE:O	2.29	0.51
3:c:5343:ARG:NH1	3:c:5349:ILE:HD11	2.26	0.51
3:c:5459:ILE:HB	4:d:5223:PHE:CE1	2.46	0.51
4:d:5141:TYR:HA	4:d:5144:ILE:HG22	1.92	0.51
4:d:5273:PHE:CD2	4:d:5277:THR:OG1	2.49	0.51
4:d:5317:LYS:NZ	28:d:6064:BR:BR	2.98	0.51
6:f:5028:VAL:HG13	6:f:5029:PRO:HD3	1.91	0.51
6:f:5040:MET:O	6:f:5042:PHE:N	2.44	0.51
13:o:5176:SER:C	13:o:5178:ARG:H	2.18	0.51
15:u:5098:THR:O	15:u:5100:ARG:N	2.44	0.51
16:v:5038:LEU:O	16:v:5094:ASN:HB2	2.11	0.51
1:A:227:THR:HG21	1:A:232:SER:O	2.11	0.51
1:A:320:ILE:O	1:A:322:ASN:N	2.44	0.51
1:A:337:HIS:HB2	28:A:1065:BR:BR	2.66	0.51
1:A:341:LEU:O	1:A:343:LEU:HD22	2.11	0.51
2:B:153:PHE:HA	23:B:1014:CLA:HMC3	1.92	0.51
2:B:184:GLU:O	2:B:189:GLY:HA3	2.11	0.51
2:B:191:ASN:HD22	2:B:191:ASN:C	2.18	0.51
23:B:1021:CLA:H202	29:B:1060:MGE:CDA	2.40	0.51
23:B:1023:CLA:HAA2	23:B:1023:CLA:O2D	2.11	0.51
3:C:43:ILE:HG23	3:C:44:ASN:H	1.74	0.51
3:C:240:ILE:HD13	26:C:1054:BCR:H372	1.92	0.51
3:C:307:PRO:HG3	3:C:358:PHE:CE1	2.46	0.51
4:D:189:HIS:CD2	4:D:289:LEU:HD12	2.46	0.51
23:D:1005:CLA:HED3	25:D:1042:PQ9:H412	1.93	0.51
26:D:1050:BCR:H372	29:J:1059:MGE:C6A	2.40	0.51
9:J:11:TRP:CD1	9:J:12:ILE:N	2.79	0.51
13:O:41:LEU:C	13:O:43:ASN:N	2.66	0.51
15:U:61:ASN:HB2	15:U:130:ASN:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:U:72:TYR:O	15:U:73:PRO:C	2.53	0.51
20:Z:27:TYR:N	20:Z:27:TYR:CD2	2.78	0.51
1:a:5210:LEU:HA	24:a:6039:PHO:HAC1	1.93	0.51
1:a:5216:GLY:O	1:a:5219:VAL:CG1	2.57	0.51
23:a:6006:CLA:H122	30:c:6057:DGD:HBG1	1.92	0.51
2:b:5271:GLN:HG3	2:b:5276:TYR:CD2	2.46	0.51
3:c:5150:ASP:O	3:c:5153:ASP:HB3	2.10	0.51
4:d:5144:ILE:HG23	4:d:5145:ALA:N	2.24	0.51
4:d:5148:ALA:HB2	4:d:5276:VAL:CG1	2.28	0.51
8:i:5024:LEU:N	8:i:5024:LEU:CD2	2.74	0.51
1:A:140:ARG:NH2	27:A:1063:LHG:C2	2.73	0.51
27:A:1063:LHG:C24	23:C:1032:CLA:HMD2	2.41	0.51
2:B:252:VAL:C	2:B:254:GLY:H	2.19	0.51
2:B:256:MET:HE2	2:B:448:ARG:HG3	1.93	0.51
2:B:298:LEU:HG	2:B:402:TYR:CD1	2.46	0.51
23:B:1011:CLA:CAD	23:B:1011:CLA:CED	2.88	0.51
23:B:1021:CLA:C17	23:B:1021:CLA:C14	2.88	0.51
3:C:250:TRP:CD1	3:C:250:TRP:C	2.88	0.51
3:C:472:LEU:O	3:C:473:ASP:CB	2.58	0.51
23:C:1026:CLA:C2B	23:C:1028:CLA:CBB	2.89	0.51
23:C:1032:CLA:HAB	23:C:1034:CLA:HMC1	1.92	0.51
4:D:194:ASN:O	4:D:198:MET:HG3	2.09	0.51
4:D:300:SER:HB3	11:L:37:ASN:O	2.11	0.51
29:L:1061:MGE:H2G	29:L:1061:MGE:H2A2	1.92	0.51
13:O:164:THR:O	13:O:165:SER:HB2	2.10	0.51
13:O:205:GLU:HA	13:O:208:LEU:HD13	1.92	0.51
13:O:215:ARG:O	13:O:251:MET:HA	2.11	0.51
16:V:120:SER:O	16:V:121:LEU:C	2.54	0.51
20:Z:51:VAL:HG13	20:Z:52:LEU:N	2.26	0.51
1:a:5019:ASN:O	1:a:5023:SER:HB2	2.11	0.51
2:b:5327:MET:HE2	2:b:5441:ARG:O	2.10	0.51
3:c:5076:ILE:O	3:c:5077:PRO:C	2.52	0.51
3:c:5121:SER:C	3:c:5124:VAL:CG2	2.82	0.51
3:c:5128:GLY:CA	23:c:6037:CLA:HAC1	2.40	0.51
3:c:5189:TRP:CD1	3:c:5295:THR:HG22	2.46	0.51
23:c:6031:CLA:HED3	23:c:6031:CLA:O1A	2.10	0.51
23:c:6032:CLA:H2	23:c:6035:CLA:CAC	2.40	0.51
5:e:5010:PHE:HD2	6:f:5019:ARG:HH21	1.59	0.51
6:f:5040:MET:HA	6:f:5043:ILE:HG13	1.92	0.51
10:k:5028:ILE:O	10:k:5031:LEU:CB	2.57	0.51
10:k:5043:VAL:HG12	10:k:5043:VAL:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l:5025:LEU:HD11	14:t:5012:CYS:HB3	1.93	0.51
12:m:5028:GLN:NE2	12:m:5029:THR:OG1	2.44	0.51
13:o:5048:LEU:O	13:o:5229:LYS:HD2	2.11	0.51
13:o:5059:ASP:OD1	13:o:5061:SER:HB3	2.11	0.51
16:v:5090:PRO:O	16:v:5091:PRO:C	2.52	0.51
1:A:71:LEU:O	1:A:73:TYR:N	2.44	0.50
1:A:117:PHE:CD2	1:A:117:PHE:N	2.78	0.50
2:B:241:SER:HB3	23:B:1020:CLA:HED1	1.94	0.50
2:B:443:PHE:CD2	2:B:443:PHE:N	2.77	0.50
2:B:467:ILE:HG12	4:D:126:MET:HE1	1.92	0.50
2:B:474:LEU:C	2:B:475:PHE:HD2	2.19	0.50
23:B:1014:CLA:H101	26:B:1048:BCR:C7	2.41	0.50
3:C:72:LEU:O	3:C:72:LEU:HD22	2.11	0.50
6:F:32:PHE:C	6:F:32:PHE:HD2	2.19	0.50
7:H:41:PHE:HB2	26:H:1049:BCR:H14C	1.92	0.50
17:X:35:ALA:HA	17:X:38:ILE:CD1	2.41	0.50
20:Z:46:LEU:HB3	20:Z:50:LEU:CD1	2.41	0.50
1:a:5135:TYR:C	1:a:5137:LEU:N	2.64	0.50
1:a:5200:LEU:HD22	1:a:5285:PHE:CD1	2.46	0.50
23:b:6017:CLA:CAD	7:h:5031:MET:HB2	2.42	0.50
3:c:5053:HIS:O	3:c:5057:ALA:CB	2.59	0.50
3:c:5058:GLY:O	3:c:5125:LEU:CD1	2.58	0.50
3:c:5282:MET:HG2	23:c:6025:CLA:C7	2.29	0.50
30:c:6056:DGD:C6B	30:c:6056:DGD:HBT1	2.38	0.50
13:o:5130:GLN:HA	13:o:5130:GLN:NE2	2.25	0.50
16:v:5120:SER:N	16:v:5123:SER:HB2	2.12	0.50
18:y:5011:GLY:C	18:y:5013:ALA:H	2.19	0.50
1:A:131:TRP:O	1:A:134:SER:HB2	2.12	0.50
1:A:210:LEU:HD13	24:A:1039:PHO:NC	2.26	0.50
1:A:228:THR:HG22	1:A:228:THR:O	2.11	0.50
2:B:192:PRO:HG2	7:H:49:TYR:CD1	2.46	0.50
23:B:1014:CLA:CBB	23:B:1014:CLA:CMB	2.73	0.50
3:C:456:GLU:O	3:C:457:LYS:HG3	2.11	0.50
23:C:1032:CLA:HED3	23:C:1032:CLA:HMA3	1.90	0.50
4:D:188:PHE:CD1	4:D:188:PHE:N	2.80	0.50
4:D:188:PHE:O	4:D:294:ARG:NH2	2.44	0.50
7:H:31:MET:HB2	23:H:1017:CLA:CAD	2.40	0.50
26:H:1049:BCR:H361	26:H:1049:BCR:C37	2.36	0.50
8:I:16:VAL:HG23	8:I:17:LEU:N	2.26	0.50
10:K:17:ILE:HD12	10:K:17:ILE:H	1.76	0.50
16:V:83:GLU:O	16:V:87:LEU:HD13	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:V:99:VAL:O	16:V:100:ASP:C	2.55	0.50
27:a:6063:LHG:O5	3:c:5443:TRP:CH2	2.65	0.50
2:b:5002:TRP:O	23:b:6019:CLA:H2	2.11	0.50
2:b:5012:ASP:OD1	2:b:5015:ARG:HD3	2.11	0.50
2:b:5105:PHE:O	2:b:5108:ALA:N	2.45	0.50
2:b:5141:PHE:CE1	2:b:5207:ILE:HG23	2.46	0.50
2:b:5150:PHE:N	23:b:6014:CLA:HMC3	2.26	0.50
2:b:5464:ILE:HG21	4:d:5126:MET:HE1	1.93	0.50
3:c:5085:GLY:C	3:c:5086:LEU:HD12	2.36	0.50
3:c:5354:GLU:O	3:c:5356:MET:N	2.45	0.50
23:c:6036:CLA:H193	26:z:6053:BCR:H371	1.93	0.50
4:d:5099:GLY:O	4:d:5100:ASP:HB2	2.10	0.50
4:d:5246:MET:HE1	4:d:5264:LYS:N	2.25	0.50
29:d:6061:MGE:H2G	29:d:6061:MGE:H2A2	1.92	0.50
11:l:5015:THR:HG22	11:l:5019:LEU:HD21	1.93	0.50
13:o:5085:LYS:HG3	13:o:5086:ARG:H	1.75	0.50
13:o:5105:ASP:O	13:o:5106:GLN:CB	2.58	0.50
16:v:5029:LEU:O	16:v:5029:LEU:HG	2.10	0.50
16:v:5105:PRO:CG	16:v:5115:ALA:HA	2.41	0.50
20:z:5015:LEU:HD22	20:z:5050:LEU:CD1	2.19	0.50
20:z:5035:ARG:CZ	20:z:5036:SER:HA	2.41	0.50
1:A:235:TYR:C	1:A:237:TYR:N	2.69	0.50
2:B:389:LYS:HB3	2:B:390:TYR:CD1	2.46	0.50
2:B:467:ILE:HG22	4:D:144:ILE:HD12	1.92	0.50
23:B:1016:CLA:H2	23:H:1017:CLA:C7	2.40	0.50
23:B:1016:CLA:H203	23:D:1008:CLA:HMA3	1.92	0.50
3:C:55:ALA:O	26:K:1052:BCR:H372	2.12	0.50
3:C:72:LEU:C	3:C:74:HIS:H	2.19	0.50
3:C:230:LEU:HD12	3:C:233:VAL:CG1	2.40	0.50
3:C:265:ILE:N	3:C:274:TYR:OH	2.44	0.50
3:C:286:ALA:O	3:C:288:CYS:N	2.44	0.50
23:C:1036:CLA:H193	26:Z:1053:BCR:H371	1.93	0.50
4:D:92:LEU:O	4:D:99:GLY:HA2	2.09	0.50
4:D:299:ILE:O	4:D:300:SER:C	2.55	0.50
4:D:314:PHE:O	4:D:315:TYR:C	2.55	0.50
4:D:342:PRO:HB2	4:D:345:VAL:CG2	2.32	0.50
13:O:208:LEU:HD12	13:O:208:LEU:H	1.77	0.50
1:a:5215:HIS:HD2	1:a:5275:LEU:CD1	2.24	0.50
2:b:5440:PHE:O	2:b:5440:PHE:CD2	2.64	0.50
2:b:5457:LEU:HD23	2:b:5457:LEU:O	2.11	0.50
23:b:6014:CLA:H101	26:b:6048:BCR:C7	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6022:CLA:CGD	23:b:6022:CLA:CAA	2.68	0.50
3:c:5063:TRP:HB2	23:c:6034:CLA:O2D	2.11	0.50
3:c:5072:LEU:HD11	10:k:5012:PRO:HD3	1.94	0.50
3:c:5404:LEU:HD13	3:c:5404:LEU:C	2.36	0.50
23:c:6027:CLA:HED1	23:c:6036:CLA:H192	1.92	0.50
23:c:6033:CLA:C14	23:c:6033:CLA:C19	2.89	0.50
4:d:5126:MET:HA	4:d:5129:GLN:OE1	2.11	0.50
4:d:5261:PHE:CE2	4:d:5267:LEU:HB2	2.47	0.50
23:d:6005:CLA:H201	24:d:6038:PHO:H143	1.92	0.50
29:d:6061:MGE:H9A2	12:m:5018:PRO:CB	2.41	0.50
29:d:6062:MGE:C1G	11:l:5019:LEU:HD21	2.38	0.50
5:e:5059:GLU:O	5:e:5060:GLN:O	2.28	0.50
13:o:5104:LEU:HD13	13:o:5148:VAL:HG23	1.92	0.50
16:v:5058:LEU:HD12	16:v:5141:ILE:HD11	1.92	0.50
1:A:163:ILE:HG12	30:C:1055:DGD:O1A	2.10	0.50
1:A:196:PRO:CA	1:A:199:GLN:HG2	2.41	0.50
1:A:281:VAL:HG23	27:A:1063:LHG:H372	1.93	0.50
2:B:416:THR:O	2:B:417:VAL:C	2.53	0.50
3:C:110:PRO:O	3:C:113:VAL:HG22	2.11	0.50
3:C:175:LEU:HD11	23:C:1025:CLA:C2D	2.40	0.50
3:C:284:PHE:O	3:C:286:ALA:N	2.45	0.50
3:C:308:GLU:HG3	3:C:361:PHE:CZ	2.46	0.50
3:C:440:GLY:HA3	23:C:1032:CLA:HMC2	1.93	0.50
23:C:1027:CLA:CED	23:C:1036:CLA:H191	2.41	0.50
23:C:1033:CLA:HAA2	23:C:1033:CLA:HBD	1.94	0.50
4:D:145:ALA:HB2	4:D:272:LEU:CD1	2.42	0.50
26:D:1050:BCR:H392	26:D:1050:BCR:C22	2.36	0.50
8:I:6:ILE:O	8:I:10:ILE:HG13	2.10	0.50
12:M:32:GLN:CD	12:m:5034:LYS:HD2	2.36	0.50
13:O:180:ALA:HB2	15:U:120:ALA:O	2.12	0.50
20:Z:27:TYR:N	20:Z:27:TYR:HD2	2.08	0.50
1:a:5025:ASP:HA	4:d:5251:ARG:NH2	2.26	0.50
1:a:5308:ASP:OD1	5:e:5052:PRO:O	2.28	0.50
2:b:5061:PRO:HB2	2:b:5265:PHE:CD2	2.45	0.50
2:b:5065:ARG:O	2:b:5164:TRP:N	2.45	0.50
2:b:5247:PHE:CE1	2:b:5456:ALA:HB1	2.46	0.50
2:b:5262:ILE:HA	2:b:5266:GLY:O	2.11	0.50
2:b:5276:TYR:O	2:b:5277:PHE:C	2.54	0.50
2:b:5381:ARG:HA	13:o:5192:SER:HB2	1.94	0.50
23:b:6019:CLA:H51	23:b:6021:CLA:CED	2.41	0.50
3:c:5243:ILE:CG2	23:c:6030:CLA:HAC2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5247:GLY:O	3:c:5250:TRP:HB3	2.11	0.50
3:c:5323:LYS:C	3:c:5325:GLY:N	2.69	0.50
3:c:5457:LYS:HG2	4:d:5229:ALA:HA	1.92	0.50
4:d:5045:LEU:O	4:d:5045:LEU:HD22	2.11	0.50
4:d:5196:PHE:N	4:d:5196:PHE:CD1	2.78	0.50
29:d:6061:MGE:H263	11:l:5022:LEU:HD21	1.94	0.50
10:k:5035:LEU:HD21	26:k:6052:BCR:H401	1.93	0.50
1:A:53:ILE:HA	1:A:71:LEU:HD12	1.93	0.50
1:A:63:ILE:CD1	1:A:65:GLU:HG2	2.42	0.50
2:B:284:ILE:HG13	2:B:285:ASN:H	1.71	0.50
2:B:291:SER:O	2:B:296:ALA:HB3	2.11	0.50
2:B:355:PHE:C	2:B:370:LEU:HD23	2.36	0.50
2:B:392:PHE:CE2	2:B:397:VAL:HG21	2.46	0.50
3:C:116:VAL:O	3:C:118:HIS:N	2.45	0.50
3:C:346:THR:HB	3:C:348:GLU:HG3	1.92	0.50
3:C:414:ILE:HG12	3:C:415:ASN:N	2.26	0.50
3:C:418:ASN:C	3:C:418:ASN:HD22	2.19	0.50
23:C:1037:CLA:CGD	23:C:1037:CLA:HBA2	2.41	0.50
4:D:98:GLN:NE2	5:E:73:LYS:CE	2.72	0.50
7:H:12:ARG:CD	7:H:16:SER:HB2	2.41	0.50
9:J:24:ILE:HG23	9:J:28:PHE:CE1	2.46	0.50
12:M:1:MET:HE2	12:M:1:MET:CA	2.22	0.50
13:O:97:VAL:HG13	13:O:98:THR:H	1.77	0.50
13:O:166:THR:HG22	13:O:167:ASP:N	2.26	0.50
13:O:250:ASP:OD1	13:O:250:ASP:O	2.29	0.50
15:U:92:LEU:HD23	15:U:106:ARG:HH11	1.76	0.50
1:a:5140:ARG:HD2	4:d:5222:LEU:CD1	2.41	0.50
2:b:5042:PHE:CE2	2:b:5052:MET:HA	2.45	0.50
2:b:5062:PHE:O	2:b:5065:ARG:HG2	2.12	0.50
2:b:5427:PHE:HB2	2:b:5429:PHE:HE1	1.76	0.50
3:c:5240:ILE:HD13	26:c:6054:BCR:C37	2.42	0.50
30:c:6057:DGD:HB92	30:c:6057:DGD:C9A	2.42	0.50
5:e:5015:THR:O	9:j:5008:ILE:HG12	2.11	0.50
6:f:5040:MET:HA	6:f:5043:ILE:HD11	1.94	0.50
7:h:5007:LEU:O	7:h:5007:LEU:HD23	2.12	0.50
10:k:5019:ASP:N	10:k:5020:PRO:CD	2.75	0.50
15:u:5058:ASN:ND2	15:u:5085:TYR:H	2.09	0.50
16:v:5105:PRO:CD	16:v:5115:ALA:HB2	2.40	0.50
1:A:110:GLY:N	1:A:111:PRO:HD2	2.27	0.50
1:A:151:LEU:HD11	1:A:155:PHE:CE2	2.47	0.50
1:A:152:ALA:O	1:A:155:PHE:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:314:ILE:HG23	4:D:58:TRP:HZ3	1.77	0.50
24:A:1039:PHO:H18	4:D:48:TRP:HE1	1.77	0.50
23:B:1020:CLA:HBB1	23:B:1021:CLA:CBA	2.37	0.50
23:B:1024:CLA:H18	26:B:1048:BCR:HC41	1.94	0.50
3:C:75:PHE:CZ	3:C:77:PRO:O	2.64	0.50
3:C:78:GLU:OE1	3:C:104:GLU:CB	2.58	0.50
3:C:167:VAL:HG12	23:C:1036:CLA:H52	1.94	0.50
3:C:200:THR:O	3:C:202:PRO:HD2	2.11	0.50
3:C:203:THR:OG1	3:C:209:ILE:HD11	2.10	0.50
3:C:212:TYR:CE1	3:C:227:VAL:HG12	2.44	0.50
3:C:250:TRP:HE1	23:C:1030:CLA:HED2	1.74	0.50
30:C:1057:DGD:HA62	30:C:1057:DGD:HAT2	1.93	0.50
4:D:146:PHE:C	4:D:149:PRO:HD2	2.36	0.50
4:D:191:TRP:CZ2	4:D:197:HIS:HB2	2.46	0.50
10:K:39:VAL:HA	18:Y:36:ILE:HD13	1.93	0.50
13:O:172:PHE:CD1	13:O:172:PHE:C	2.90	0.50
15:U:50:ALA:CB	15:U:113:THR:HG21	2.40	0.50
15:U:58:ASN:O	15:U:59:ASN:OD1	2.30	0.50
15:U:73:PRO:HB2	16:V:109:ASP:CG	2.37	0.50
15:U:74:THR:O	15:U:77:LYS:N	2.44	0.50
15:U:78:LEU:O	15:U:79:ILE:C	2.53	0.50
16:V:111:GLU:CG	16:V:112:GLN:N	2.71	0.50
1:a:5292:THR:HG22	1:a:5293:MET:N	2.27	0.50
2:b:5024:THR:O	2:b:5104:LEU:HD12	2.11	0.50
2:b:5035:ALA:HA	2:b:5038:GLU:HG3	1.93	0.50
2:b:5069:THR:HB	2:b:5077:ILE:CG2	2.41	0.50
2:b:5147:CYS:N	23:b:6011:CLA:HBC3	2.26	0.50
2:b:5147:CYS:HB2	23:b:6011:CLA:CMC	2.41	0.50
2:b:5232:GLU:CD	2:b:5469:ARG:NH1	2.69	0.50
23:b:6022:CLA:O1D	23:b:6022:CLA:O1A	2.29	0.50
23:b:6023:CLA:C4D	23:b:6024:CLA:HMC2	2.39	0.50
3:c:5028:GLN:O	3:c:5029:GLU:HG2	2.12	0.50
3:c:5131:TYR:C	3:c:5133:ALA:H	2.18	0.50
3:c:5275:SER:HB3	23:c:6033:CLA:HED3	1.93	0.50
3:c:5344:SER:C	3:c:5346:THR:H	2.19	0.50
3:c:5428:THR:HG23	3:c:5429:SER:N	2.27	0.50
30:c:6057:DGD:HA62	30:c:6057:DGD:HAT2	1.93	0.50
4:d:5214:HIS:HA	4:d:5217:THR:CG2	2.41	0.50
4:d:5259:ILE:HD11	14:t:5021:ILE:HG23	1.93	0.50
5:e:5043:ALA:O	5:e:5044:TYR:C	2.54	0.50
9:j:5024:ILE:HG23	9:j:5028:PHE:CE1	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5129:PHE:CD2	13:o:5129:PHE:C	2.89	0.50
15:u:5070:GLY:HA2	16:v:5109:ASP:HB2	1.92	0.50
15:u:5122:VAL:HG11	15:u:5127:ARG:HG3	1.91	0.50
1:A:31:GLY:HA3	1:A:132:GLU:OE1	2.11	0.50
1:A:127:MET:O	1:A:130:GLN:HB3	2.11	0.50
1:A:259:ILE:O	1:A:260:PHE:C	2.54	0.50
26:B:1048:BCR:H282	14:t:5022:PHE:CD1	2.47	0.50
3:C:78:GLU:HB3	16:V:128:PRO:HB2	1.93	0.50
3:C:113:VAL:O	3:C:117:VAL:CG2	2.55	0.50
23:C:1025:CLA:C9	23:C:1025:CLA:HBB2	2.42	0.50
23:C:1026:CLA:HBA1	23:C:1027:CLA:HMC2	1.92	0.50
30:C:1057:DGD:HB92	30:C:1057:DGD:C9A	2.42	0.50
31:E:1040:HEM:CHD	6:F:20:TRP:HE1	2.25	0.50
7:H:6:TRP:CD1	7:H:6:TRP:C	2.90	0.50
7:H:40:VAL:HG21	17:X:23:LEU:HD21	1.93	0.50
10:K:37:PHE:HB3	26:K:1051:BCR:C40	2.42	0.50
12:M:34:LYS:HD2	12:m:5032:GLN:CD	2.36	0.50
15:U:128:TYR:N	15:U:128:TYR:CD1	2.79	0.50
16:V:105:PRO:HB3	16:V:120:SER:OG	2.12	0.50
16:V:141:ILE:O	16:V:142:ALA:C	2.54	0.50
20:Z:52:LEU:O	20:Z:55:GLY:HA3	2.12	0.50
1:a:5193:LEU:O	4:d:5179:PHE:CE2	2.65	0.50
1:a:5328:MET:O	1:a:5329:GLU:C	2.55	0.50
1:a:5335:ASN:HA	4:d:5350:ASN:HB3	1.94	0.50
23:a:6003:CLA:CBB	23:a:6006:CLA:CMD	2.80	0.50
2:b:5065:ARG:CZ	23:b:6011:CLA:HED2	2.41	0.50
2:b:5089:SER:O	2:b:5090:PHE:C	2.54	0.50
2:b:5114:TYR:O	2:b:5117:LEU:HD21	2.12	0.50
2:b:5149:GLY:CA	23:b:6014:CLA:HMC1	2.40	0.50
2:b:5457:LEU:HD23	4:d:5280:TRP:CZ3	2.47	0.50
2:b:5460:PHE:CE1	23:b:6016:CLA:CBB	2.87	0.50
26:b:6045:BCR:H341	26:b:6047:BCR:H10C	1.94	0.50
29:b:6060:MGE:H251	29:b:6060:MGE:H212	0.64	0.50
3:c:5055:ALA:CB	26:k:6052:BCR:H371	2.36	0.50
3:c:5162:GLY:HA2	3:c:5165:LEU:HD12	1.93	0.50
3:c:5169:GLY:O	3:c:5173:LEU:HG	2.12	0.50
23:c:6032:CLA:HAA1	23:c:6032:CLA:HBD	1.92	0.50
4:d:5092:LEU:CD1	4:d:5099:GLY:HA2	2.41	0.50
23:d:6008:CLA:H91	17:x:5030:LEU:HG	1.94	0.50
13:o:5144:LEU:HD13	13:o:5259:VAL:HG11	1.94	0.50
13:o:5230:VAL:HG12	13:o:5231:ASP:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:5088:ALA:HB2	16:v:5108:TYR:CE1	2.46	0.50
1:A:161:TYR:CD1	1:A:294:ALA:HA	2.47	0.50
1:A:198:HIS:O	1:A:202:VAL:HG23	2.12	0.50
1:A:210:LEU:CD1	24:A:1039:PHO:ND	2.75	0.50
1:A:235:TYR:O	1:A:237:TYR:N	2.40	0.50
27:A:1063:LHG:C12	27:A:1063:LHG:C16	2.72	0.50
2:B:256:MET:HE3	2:B:256:MET:CA	2.42	0.50
2:B:279:TYR:O	2:B:281:GLN:N	2.45	0.50
2:B:482:ILE:HG21	4:D:138:VAL:HA	1.92	0.50
23:B:1010:CLA:H203	4:D:159:ILE:HG23	1.94	0.50
23:B:1019:CLA:OBD	29:B:1060:MGE:C2G	2.58	0.50
3:C:33:PHE:HB3	4:D:229:ALA:HB3	1.93	0.50
3:C:53:HIS:CB	23:C:1036:CLA:HMD3	2.42	0.50
3:C:72:LEU:CD2	3:C:108:THR:HB	2.42	0.50
3:C:137:PRO:O	3:C:138:GLU:O	2.29	0.50
3:C:248:GLY:C	3:C:250:TRP:N	2.69	0.50
23:C:1034:CLA:CED	10:K:29:PRO:HG3	2.42	0.50
4:D:83:ASN:N	4:D:168:PHE:HD1	2.09	0.50
4:D:110:LEU:C	4:D:113:PHE:HB3	2.37	0.50
5:E:17:VAL:O	5:E:21:VAL:HG23	2.11	0.50
8:I:3:THR:C	8:I:6:ILE:HD11	2.36	0.50
13:O:230:VAL:HG22	13:O:237:ILE:HG22	1.93	0.50
15:U:51:TYR:HB2	15:U:56:ASP:HB2	1.93	0.50
1:a:5022:THR:HA	1:a:5029:TYR:HE1	1.77	0.50
1:a:5075:ASN:ND2	1:a:5075:ASN:O	2.30	0.50
1:a:5090:GLY:CA	1:a:5167:SER:CB	2.90	0.50
1:a:5228:THR:C	1:a:5230:THR:N	2.70	0.50
1:a:5306:VAL:CG2	1:a:5316:THR:HG23	2.42	0.50
23:a:6003:CLA:HHD	23:a:6003:CLA:CBC	2.25	0.50
2:b:5013:PRO:HA	2:b:5016:LEU:HB3	1.94	0.50
2:b:5102:GLY:O	2:b:5105:PHE:HB3	2.12	0.50
2:b:5180:PRO:HG3	2:b:5196:VAL:CB	2.42	0.50
2:b:5340:HIS:CE1	2:b:5342:VAL:HG13	2.43	0.50
2:b:5462:GLY:N	23:b:6019:CLA:HBC2	2.24	0.50
23:b:6014:CLA:C11	26:b:6048:BCR:H10C	2.32	0.50
23:b:6016:CLA:H2	23:b:6017:CLA:H71	1.94	0.50
23:b:6024:CLA:H18	26:b:6048:BCR:HC41	1.94	0.50
3:c:5089:ILE:HG23	3:c:5111:PHE:HE2	1.76	0.50
3:c:5354:GLU:HA	3:c:5356:MET:HE2	1.94	0.50
3:c:5405:ASN:OD1	3:c:5405:ASN:O	2.30	0.50
3:c:5449:ARG:HB2	23:c:6029:CLA:HED1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5102:THR:HG22	4:d:5103:ARG:N	2.27	0.50
31:e:6040:HEM:CBC	6:f:5019:ARG:HH12	2.24	0.50
6:f:5026:LEU:HD13	6:f:5026:LEU:N	2.26	0.50
7:h:5015:ASN:ND2	7:h:5015:ASN:O	2.45	0.50
11:l:5017:LEU:HD12	11:l:5018:TYR:HA	1.91	0.50
13:o:5145:LEU:HD23	13:o:5145:LEU:N	2.21	0.50
13:o:5169:LYS:HB3	13:o:5224:SER:HB3	1.93	0.50
2:B:6:TYR:HE2	11:L:11:GLU:CG	2.25	0.50
2:B:37:MET:HG2	2:B:62:VAL:HG21	1.94	0.50
2:B:68:ARG:CG	2:B:69:LEU:N	2.75	0.50
2:B:153:PHE:CA	23:B:1014:CLA:CMC	2.89	0.50
2:B:284:ILE:HG22	2:B:309:LEU:CD2	2.35	0.50
23:B:1022:CLA:O1D	23:B:1022:CLA:O1A	2.29	0.50
3:C:163:PHE:O	3:C:167:VAL:HG23	2.12	0.50
3:C:278:ALA:O	3:C:281:MET:HB3	2.11	0.50
3:C:297:TYR:O	3:C:298:PRO:C	2.55	0.50
23:C:1029:CLA:C5	23:C:1029:CLA:CHC	2.90	0.50
4:D:147:SER:O	4:D:148:ALA:C	2.55	0.50
7:H:54:ILE:O	7:H:54:ILE:CG2	2.59	0.50
13:O:144:LEU:H	13:O:144:LEU:HD23	1.77	0.50
15:U:56:ASP:HA	15:U:113:THR:O	2.11	0.50
16:V:102:MET:HB3	16:V:138:LEU:HD13	1.94	0.50
20:Z:53:VAL:C	20:Z:55:GLY:N	2.69	0.50
1:a:5024:THR:OG1	3:c:5469:MET:HE3	2.11	0.50
1:a:5105:TRP:O	1:a:5110:GLY:N	2.39	0.50
1:a:5200:LEU:HD22	1:a:5285:PHE:HD1	1.77	0.50
1:a:5202:VAL:HA	1:a:5205:VAL:HG12	1.94	0.50
2:b:5015:ARG:HB3	2:b:5112:TRP:CD1	2.47	0.50
2:b:5248:VAL:HG11	23:b:6010:CLA:CED	2.42	0.50
2:b:5450:PHE:O	2:b:5453:ALA:HB3	2.12	0.50
23:b:6012:CLA:CGA	23:b:6013:CLA:CBA	2.90	0.50
3:c:5237:HIS:HA	3:c:5240:ILE:HG22	1.92	0.50
3:c:5336:GLY:HA3	13:o:5177:TYR:O	2.11	0.50
4:d:5282:SER:O	4:d:5285:GLY:N	2.45	0.50
4:d:5320:LEU:O	4:d:5322:ASN:N	2.44	0.50
11:l:5017:LEU:CD1	11:l:5018:TYR:HD1	2.24	0.50
13:o:5150:ASN:O	13:o:5151:LEU:O	2.30	0.50
15:u:5057:LEU:CD2	15:u:5079:ILE:HG21	2.41	0.50
16:v:5147:VAL:O	16:v:5150:LYS:HB2	2.11	0.50
20:z:5030:PRO:HA	20:z:5033:TRP:CZ2	2.47	0.50
1:A:297:LEU:CD2	3:C:404:LEU:HA	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:173:GLY:O	2:B:174:LEU:HD12	2.12	0.49
2:B:373:LYS:CD	2:B:374:ASN:H	2.25	0.49
2:B:478:VAL:HG13	2:B:482:ILE:CG2	2.42	0.49
3:C:150:ASP:HB3	3:C:153:ASP:HB2	1.94	0.49
3:C:435:PHE:O	3:C:436:PHE:C	2.54	0.49
23:C:1030:CLA:CMC	23:C:1031:CLA:C10	2.69	0.49
23:C:1032:CLA:H193	23:C:1032:CLA:C15	2.33	0.49
26:C:1054:BCR:C27	26:C:1054:BCR:C39	2.80	0.49
4:D:337:GLU:O	4:D:338:ASN:C	2.55	0.49
9:J:30:TYR:O	9:J:32:ALA:N	2.45	0.49
26:K:1051:BCR:H403	26:K:1051:BCR:C22	2.36	0.49
13:O:148:VAL:CG1	13:O:151:LEU:HD22	2.42	0.49
13:O:183:LEU:HD12	13:O:183:LEU:N	2.27	0.49
1:a:5147:TYR:HA	1:a:5150:PRO:HG3	1.93	0.49
1:a:5199:GLN:O	1:a:5203:ALA:N	2.45	0.49
1:a:5268:SER:O	1:a:5271:LEU:O	2.30	0.49
2:b:5003:TYR:HE2	11:l:5011:GLU:CG	2.25	0.49
2:b:5050:ASN:ND2	2:b:5055:GLN:NE2	2.58	0.49
23:b:6012:CLA:HED3	23:b:6013:CLA:C1	2.43	0.49
4:d:5314:PHE:O	4:d:5318:ASN:ND2	2.45	0.49
4:d:5324:GLY:C	4:d:5326:ARG:H	2.19	0.49
5:e:5051:ARG:O	5:e:5054:SER:N	2.42	0.49
13:o:5145:LEU:O	13:o:5245:GLN:NE2	2.43	0.49
15:u:5089:GLU:C	15:u:5091:VAL:N	2.70	0.49
18:y:5019:PHE:CD2	18:y:5019:PHE:O	2.65	0.49
20:z:5001:MET:HB2	20:z:5004:LEU:CG	2.43	0.49
1:A:48:PHE:CD2	1:A:82:VAL:HG21	2.47	0.49
1:A:151:LEU:O	1:A:152:ALA:C	2.54	0.49
2:B:122:LEU:C	2:B:122:LEU:HD22	2.37	0.49
3:C:37:ALA:O	3:C:39:ASN:O	2.30	0.49
3:C:290:VAL:CG2	3:C:423:ARG:HA	2.41	0.49
3:C:341:LEU:HD22	3:C:375:LEU:HD12	1.95	0.49
3:C:377:LEU:HA	3:C:380:ILE:HG21	1.92	0.49
3:C:458:GLY:C	3:C:459:ILE:HD12	2.37	0.49
23:C:1032:CLA:C17	23:C:1034:CLA:C19	2.90	0.49
4:D:80:THR:HA	4:D:111:TRP:CD1	2.47	0.49
4:D:257:PHE:O	4:D:257:PHE:CG	2.64	0.49
23:D:1005:CLA:H202	23:D:1005:CLA:C15	2.01	0.49
5:E:83:LEU:HD22	5:E:84:LYS:N	2.24	0.49
15:U:73:PRO:HB2	16:V:109:ASP:OD1	2.12	0.49
16:V:81:ARG:HD3	16:V:157:GLY:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Y:44:GLY:O	18:Y:45:ASN:C	2.55	0.49
20:Z:44:SER:O	20:Z:48:ILE:HG13	2.11	0.49
1:a:5015:GLU:O	1:a:5019:ASN:ND2	2.45	0.49
1:a:5243:GLU:OE1	1:a:5243:GLU:N	2.45	0.49
1:a:5324:ALA:O	4:d:5325:ILE:HG23	2.12	0.49
3:c:5216:SER:HB3	3:c:5221:GLU:HB2	1.93	0.49
3:c:5290:VAL:HG22	3:c:5423:ARG:HA	1.93	0.49
3:c:5455:PHE:O	3:c:5456:GLU:C	2.55	0.49
4:d:5148:ALA:HA	4:d:5280:TRP:HD1	1.77	0.49
13:o:5119:LEU:HG	13:o:5155:THR:HG21	1.94	0.49
15:u:5072:TYR:CD2	15:u:5073:PRO:HD3	2.46	0.49
20:z:5004:LEU:C	20:z:5004:LEU:HD12	2.36	0.49
1:A:130:GLN:NE2	24:A:1038:PHO:OBD	2.45	0.49
1:A:180:PHE:N	1:A:180:PHE:CD1	2.79	0.49
1:A:258:LEU:HA	4:D:132:ILE:CD1	2.42	0.49
1:A:267:ASN:HB3	1:A:270:SER:OG	2.12	0.49
1:A:279:ARG:C	1:A:283:VAL:HG12	2.37	0.49
1:A:303:ASN:HD21	3:C:412:THR:HA	1.76	0.49
1:A:314:ILE:HG23	4:D:58:TRP:CZ3	2.47	0.49
2:B:59:GLY:O	23:B:1015:CLA:CED	2.61	0.49
2:B:150:CYS:N	23:B:1011:CLA:HBC3	2.27	0.49
2:B:255:THR:O	2:B:258:TYR:O	2.30	0.49
2:B:373:LYS:C	2:B:375:GLY:N	2.66	0.49
2:B:464:PHE:CD1	2:B:465:GLY:N	2.81	0.49
23:B:1016:CLA:H2	23:H:1017:CLA:H71	1.94	0.49
3:C:172:ALA:HB3	3:C:241:GLY:HA2	1.94	0.49
3:C:275:SER:HB3	23:C:1033:CLA:HED1	1.94	0.49
3:C:326:ALA:HB2	15:U:128:TYR:CD2	2.48	0.49
3:C:326:ALA:HB2	15:U:128:TYR:CG	2.47	0.49
3:C:431:PHE:C	3:C:431:PHE:CD2	2.90	0.49
4:D:45:LEU:O	4:D:45:LEU:HD22	2.12	0.49
4:D:66:SER:O	4:D:71:CYS:HB2	2.12	0.49
14:T:2:GLU:C	14:T:6:TYR:CD2	2.90	0.49
15:U:56:ASP:C	15:U:58:ASN:H	2.20	0.49
16:V:63:CYS:HB3	31:V:1041:HEM:CAB	2.42	0.49
20:Z:7:LEU:O	20:Z:11:ALA:HB2	2.12	0.49
1:a:5057:PRO:HB2	1:a:5066:PRO:HB2	1.94	0.49
1:a:5086:SER:O	1:a:5087:ASN:C	2.55	0.49
1:a:5087:ASN:HB3	3:c:5357:ARG:HG2	1.95	0.49
1:a:5109:GLY:C	1:a:5111:PRO:HD2	2.38	0.49
1:a:5176:ILE:O	1:a:5179:THR:HB	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5276:TYR:O	2:b:5278:GLN:N	2.46	0.49
2:b:5476:PHE:C	2:b:5478:GLY:N	2.69	0.49
10:k:5021:LEU:O	10:k:5023:ASP:N	2.45	0.49
13:o:5036:ILE:HA	13:o:5039:THR:HG21	1.93	0.49
15:u:5047:LEU:HD21	15:u:5051:TYR:HE1	1.77	0.49
16:v:5061:TYR:C	16:v:5061:TYR:HD1	2.20	0.49
17:x:5024:LEU:O	17:x:5028:VAL:N	2.34	0.49
1:A:260:PHE:CE1	1:A:263:ALA:HB2	2.47	0.49
2:B:133:LEU:HA	7:H:15:ASN:HD21	1.77	0.49
2:B:223:GLN:C	2:B:225:LEU:N	2.69	0.49
2:B:256:MET:HE1	2:B:268:PHE:HD1	1.77	0.49
2:B:307:GLU:O	2:B:308:LYS:C	2.55	0.49
23:B:1019:CLA:C6	23:B:1021:CLA:CED	2.77	0.49
3:C:85:GLY:C	3:C:86:LEU:HD12	2.37	0.49
3:C:269:GLU:OE1	3:C:447:ARG:CG	2.60	0.49
4:D:82:ALA:O	4:D:85:MET:HB2	2.12	0.49
23:D:1005:CLA:C16	29:D:1062:MGE:CGB	2.85	0.49
7:H:54:ILE:O	7:H:54:ILE:HG23	2.10	0.49
9:J:17:ALA:O	9:J:19:MET:N	2.46	0.49
10:K:10:LYS:HG3	10:K:10:LYS:O	2.11	0.49
11:L:5:PRO:C	11:L:7:ARG:H	2.19	0.49
12:M:28:GLN:HA	12:m:5028:GLN:CA	2.34	0.49
13:O:66:ILE:HG22	13:O:269:ILE:HA	1.94	0.49
13:O:206:GLU:OE1	13:O:206:GLU:N	2.40	0.49
13:O:223:ILE:CG1	13:O:224:SER:H	2.11	0.49
1:a:5219:VAL:CG1	4:d:5268:HIS:CD2	2.94	0.49
27:a:6063:LHG:H292	23:c:6032:CLA:C7	2.42	0.49
2:b:5065:ARG:CZ	23:b:6011:CLA:CED	2.90	0.49
2:b:5216:VAL:HG12	2:b:5217:ARG:H	1.77	0.49
2:b:5238:SER:CB	23:b:6020:CLA:HED3	2.35	0.49
2:b:5337:TRP:CE3	2:b:5401:GLY:HA2	2.47	0.49
2:b:5394:VAL:O	2:b:5395:THR:HG22	2.12	0.49
23:b:6019:CLA:H193	23:b:6021:CLA:C6	2.41	0.49
3:c:5059:LEU:O	3:c:5062:PHE:HB3	2.13	0.49
3:c:5343:ARG:NH1	3:c:5349:ILE:CD1	2.75	0.49
3:c:5431:PHE:O	3:c:5434:ALA:N	2.45	0.49
23:c:6027:CLA:CED	23:c:6036:CLA:H191	2.42	0.49
23:c:6030:CLA:HMB1	23:c:6031:CLA:NB	2.27	0.49
29:d:6061:MGE:C3B	29:d:6061:MGE:C7B	2.80	0.49
5:e:5021:VAL:C	5:e:5023:HIS:H	2.20	0.49
7:h:5007:LEU:HD23	7:h:5011:LEU:HD13	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l:5024:ILE:CD1	12:m:5019:SER:N	2.76	0.49
12:m:5028:GLN:C	12:m:5028:GLN:CD	2.80	0.49
13:o:5146:PHE:HA	13:o:5245:GLN:NE2	2.27	0.49
15:u:5074:THR:O	15:u:5075:LEU:C	2.53	0.49
15:u:5089:GLU:C	15:u:5091:VAL:H	2.20	0.49
15:u:5092:LEU:H	15:u:5092:LEU:CD1	2.22	0.49
16:v:5046:THR:HG22	16:v:5047:LEU:N	2.26	0.49
17:x:5030:LEU:O	17:x:5034:PHE:HB2	2.13	0.49
18:y:5017:ILE:O	18:y:5021:LEU:HD23	2.11	0.49
18:y:5024:ARG:O	18:y:5025:ARG:O	2.30	0.49
20:z:5034:ASP:HA	20:z:5037:LYS:HB3	1.94	0.49
20:z:5049:ALA:C	20:z:5051:VAL:H	2.21	0.49
1:A:60:ILE:O	1:A:61:ASP:C	2.55	0.49
1:A:91:LEU:CD1	1:A:167:SER:HA	2.43	0.49
23:A:1006:CLA:C17	26:D:1050:BCR:H292	2.35	0.49
23:A:1006:CLA:O1D	4:D:179:PHE:HZ	1.95	0.49
2:B:49:ASP:OD1	2:B:51:VAL:N	2.45	0.49
2:B:121:GLU:HB2	7:H:3:ARG:O	2.12	0.49
2:B:188:ASP:C	2:B:190:PHE:H	2.18	0.49
2:B:222:PRO:HB2	7:H:25:TRP:O	2.12	0.49
2:B:326:ARG:NH2	4:D:297:ASP:OD1	2.45	0.49
3:C:179:ALA:O	3:C:198:VAL:HG13	2.12	0.49
3:C:342:MET:HE3	3:C:352:GLY:CA	2.43	0.49
3:C:394:GLU:OE1	16:V:127:PHE:HE2	1.95	0.49
3:C:418:ASN:HD22	3:C:418:ASN:N	2.10	0.49
23:C:1031:CLA:HED3	23:C:1031:CLA:O1A	2.10	0.49
4:D:61:HIS:O	4:D:62:GLY:C	2.53	0.49
4:D:157:PHE:O	4:D:158:LEU:HD23	2.12	0.49
5:E:19:TYR:CE1	5:E:20:TRP:HD1	2.28	0.49
5:E:57:ALA:CB	5:E:83:LEU:HA	2.42	0.49
8:I:4:LEU:HD12	8:I:7:THR:OG1	2.12	0.49
8:I:33:LYS:HB3	8:I:35:LYS:CE	2.40	0.49
1:a:5062:GLY:HA3	3:c:5356:MET:SD	2.52	0.49
1:a:5183:MET:HB3	23:a:6003:CLA:CBC	2.43	0.49
1:a:5192:ILE:HG13	1:a:5293:MET:SD	2.52	0.49
1:a:5274:PHE:HA	1:a:5277:ALA:HB2	1.95	0.49
1:a:5281:VAL:CG1	1:a:5282:GLY:N	2.75	0.49
2:b:5007:THR:C	2:b:5009:LEU:N	2.71	0.49
2:b:5061:PRO:O	2:b:5264:LEU:HD13	2.13	0.49
2:b:5308:PHE:HA	2:b:5427:PHE:CE1	2.48	0.49
2:b:5453:ALA:O	2:b:5456:ALA:HB3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6021:CLA:HMC3	23:b:6021:CLA:HBC2	1.93	0.49
23:b:6022:CLA:HBC1	12:m:5021:PHE:CE1	2.47	0.49
3:c:5173:LEU:HA	3:c:5176:VAL:CG2	2.43	0.49
23:c:6027:CLA:HBA1	23:c:6027:CLA:CBD	2.43	0.49
23:c:6032:CLA:CED	23:c:6032:CLA:HMA1	2.42	0.49
23:c:6033:CLA:HBD	23:c:6033:CLA:HAA2	1.94	0.49
23:c:6035:CLA:H102	10:k:5035:LEU:HD21	1.95	0.49
4:d:5042:TYR:O	4:d:5046:GLY:N	2.38	0.49
4:d:5191:TRP:CZ3	4:d:5289:LEU:HD21	2.48	0.49
4:d:5235:PHE:CZ	4:d:5243:THR:CG2	2.95	0.49
4:d:5273:PHE:O	4:d:5274:VAL:C	2.56	0.49
10:k:5035:LEU:HD21	26:k:6052:BCR:C40	2.42	0.49
11:l:5024:ILE:HD13	12:m:5019:SER:CA	2.43	0.49
16:v:5135:GLU:O	16:v:5139:VAL:HG13	2.12	0.49
18:y:5017:ILE:HD12	18:y:5017:ILE:C	2.37	0.49
1:A:32:TRP:HA	1:A:32:TRP:CE3	2.47	0.49
1:A:44:ALA:O	1:A:45:THR:C	2.56	0.49
1:A:135:TYR:C	1:A:137:LEU:H	2.19	0.49
1:A:166:GLY:HA3	3:C:357:ARG:HH11	1.77	0.49
1:A:269:ARG:HD3	4:D:231:THR:CG2	2.43	0.49
2:B:223:GLN:HG2	7:H:24:GLY:O	2.12	0.49
2:B:394:GLN:OE1	15:U:47:LEU:HD13	2.12	0.49
2:B:442:ILE:O	2:B:443:PHE:C	2.55	0.49
23:B:1009:CLA:H62	23:B:1009:CLA:H13	1.95	0.49
3:C:266:TRP:HB3	3:C:271:TYR:OH	2.13	0.49
3:C:376:ASP:O	3:C:380:ILE:HG22	2.12	0.49
4:D:153:PHE:CD1	4:D:153:PHE:C	2.91	0.49
4:D:171:PRO:HG3	4:D:181:PHE:CE2	2.48	0.49
4:D:196:PHE:H	4:D:196:PHE:HD1	1.61	0.49
4:D:304:ARG:O	4:D:304:ARG:HG3	2.12	0.49
25:D:1042:PQ9:H142	29:D:1062:MGE:H3B2	1.93	0.49
26:H:1049:BCR:H23C	26:H:1049:BCR:H392	1.94	0.49
8:I:13:THR:O	8:I:14:PHE:C	2.55	0.49
9:J:11:TRP:CG	9:J:12:ILE:N	2.80	0.49
14:T:7:VAL:O	14:T:10:PHE:HB3	2.13	0.49
15:U:80:VAL:C	15:U:82:ASN:H	2.21	0.49
16:V:39:ASN:ND2	16:V:41:GLU:HG2	2.28	0.49
16:V:55:GLY:HA3	16:V:144:HIS:HB2	1.95	0.49
16:V:85:LEU:O	16:V:88:ALA:HB3	2.12	0.49
16:V:102:MET:O	16:V:121:LEU:HB2	2.12	0.49
1:a:5037:MET:HG2	1:a:5041:LEU:HD23	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:a:6006:CLA:CGA	30:c:6057:DGD:HBN2	2.43	0.49
24:a:6039:PHO:H91	4:d:5153:PHE:CE2	2.47	0.49
2:b:5028:ALA:CB	23:b:6013:CLA:HBC3	2.41	0.49
2:b:5265:PHE:N	2:b:5265:PHE:HD2	2.10	0.49
3:c:5202:PRO:HG2	3:c:5204:LEU:CD2	2.42	0.49
3:c:5203:THR:N	3:c:5235:GLY:HA3	2.27	0.49
3:c:5225:VAL:O	3:c:5225:VAL:HG12	2.11	0.49
23:c:6032:CLA:C15	23:c:6032:CLA:C19	2.90	0.49
4:d:5161:PRO:HG3	4:d:5170:ALA:CB	2.43	0.49
4:d:5194:ASN:OD1	4:d:5196:PHE:HB2	2.13	0.49
23:d:6005:CLA:CED	25:d:6042:PQ9:H412	2.43	0.49
5:e:5081:GLU:C	5:e:5081:GLU:OE1	2.55	0.49
13:o:5099:ARG:NH1	13:o:5099:ARG:CG	2.76	0.49
20:z:5033:TRP:O	20:z:5037:LYS:CB	2.60	0.49
1:A:140:ARG:NH2	27:A:1063:LHG:HC11	2.27	0.49
1:A:173:PRO:HG3	4:D:314:PHE:CE2	2.47	0.49
1:A:189:GLU:O	3:C:411:ALA:HB2	2.13	0.49
1:A:308:ASP:CG	1:A:309:ALA:H	2.21	0.49
27:A:1063:LHG:H292	23:C:1032:CLA:C7	2.42	0.49
2:B:68:ARG:HG3	2:B:69:LEU:H	1.76	0.49
2:B:368:VAL:HG11	2:B:381:ILE:CG1	2.43	0.49
23:C:1026:CLA:C4D	23:C:1026:CLA:C20	2.85	0.49
23:C:1034:CLA:HED1	10:K:29:PRO:HG3	1.95	0.49
4:D:196:PHE:CD2	4:D:284:ILE:HB	2.47	0.49
4:D:235:PHE:CE2	4:D:243:THR:HG22	2.48	0.49
4:D:320:LEU:O	4:D:321:LEU:C	2.55	0.49
26:D:1050:BCR:H282	29:J:1059:MGE:CBB	2.30	0.49
7:H:49:TYR:C	7:H:51:SER:H	2.20	0.49
11:L:24:ILE:HG23	11:L:25:LEU:N	2.28	0.49
13:O:230:VAL:HG13	13:O:237:ILE:HG22	1.94	0.49
1:a:5016:ARG:O	1:a:5016:ARG:HD3	2.13	0.49
1:a:5197:PHE:CZ	30:c:6056:DGD:HAS1	2.48	0.49
1:a:5236:GLY:O	1:a:5245:THR:OG1	2.29	0.49
1:a:5278:TRP:CH2	30:c:6057:DGD:CIA	2.85	0.49
27:a:6063:LHG:O5	3:c:5443:TRP:HH2	1.96	0.49
2:b:5095:LEU:O	2:b:5098:ILE:HB	2.12	0.49
2:b:5105:PHE:C	2:b:5105:PHE:CD2	2.90	0.49
2:b:5119:LEU:HG	7:h:5011:LEU:CD2	2.41	0.49
2:b:5153:PHE:CB	23:b:6014:CLA:HAC2	2.40	0.49
2:b:5450:PHE:O	2:b:5450:PHE:CD1	2.66	0.49
3:c:5043:ILE:HG23	3:c:5044:ASN:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5153:ASP:OD1	3:c:5156:LYS:HB2	2.13	0.49
3:c:5227:VAL:CG2	3:c:5293:ASN:HD21	2.25	0.49
3:c:5293:ASN:ND2	3:c:5296:VAL:CG2	2.75	0.49
23:c:6029:CLA:C5	23:c:6029:CLA:CHC	2.90	0.49
23:c:6032:CLA:H152	23:c:6032:CLA:C19	2.39	0.49
4:d:5027:PHE:HB3	6:f:5019:ARG:HB2	1.94	0.49
4:d:5036:LEU:O	4:d:5037:LEU:C	2.56	0.49
4:d:5196:PHE:CD2	4:d:5284:ILE:HB	2.47	0.49
4:d:5244:TYR:CD2	4:d:5244:TYR:O	2.66	0.49
4:d:5281:MET:HE3	4:d:5284:ILE:CD1	2.41	0.49
4:d:5342:PRO:HD2	4:d:5345:VAL:HG21	1.94	0.49
4:d:5344:GLU:C	4:d:5346:LEU:N	2.70	0.49
23:d:6005:CLA:HBD	23:d:6005:CLA:HAA1	1.94	0.49
5:e:5012:ASP:C	5:e:5014:ILE:N	2.69	0.49
13:o:5215:ARG:HE	13:o:5252:GLY:HA3	1.78	0.49
20:z:5059:PHE:N	20:z:5059:PHE:CD1	2.80	0.49
1:A:21:VAL:CG2	1:A:22:THR:HG23	2.41	0.49
1:A:78:ILE:HD11	11:L:34:TYR:HE2	1.78	0.49
1:A:195:HIS:CG	1:A:196:PRO:HD2	2.47	0.49
1:A:254:TYR:C	1:A:254:TYR:CD2	2.91	0.49
2:B:37:MET:HG2	2:B:62:VAL:CG2	2.42	0.49
2:B:54:PRO:HD2	2:B:57:ARG:HG3	1.94	0.49
2:B:87:ASP:CG	2:B:87:ASP:O	2.55	0.49
2:B:112:CYS:O	2:B:113:TRP:C	2.56	0.49
23:B:1019:CLA:H193	23:B:1021:CLA:C6	2.41	0.49
23:B:1020:CLA:CGA	23:B:1020:CLA:C5	2.90	0.49
3:C:418:ASN:OD1	30:C:1057:DGD:HE61	2.13	0.49
30:C:1056:DGD:HB51	9:J:29:PHE:CE1	2.46	0.49
23:D:1005:CLA:HBD	23:D:1005:CLA:HAA1	1.94	0.49
7:H:41:PHE:CD2	7:H:42:LEU:HD23	2.48	0.49
8:I:3:THR:CA	8:I:6:ILE:HD11	2.42	0.49
1:a:5222:SER:O	1:a:5246:TYR:HB2	2.13	0.49
1:a:5298:ASN:O	3:c:5404:LEU:HB2	2.13	0.49
1:a:5335:ASN:HB3	13:o:5183:LEU:CD1	2.43	0.49
2:b:5002:TRP:CZ2	2:b:5003:TYR:HB3	2.48	0.49
2:b:5065:ARG:HG3	2:b:5066:LEU:HG	1.94	0.49
2:b:5351:LEU:HD22	2:b:5367:LEU:HD13	1.94	0.49
2:b:5359:PHE:CD2	2:b:5359:PHE:N	2.77	0.49
2:b:5382:ARG:HG3	2:b:5382:ARG:NH1	2.27	0.49
23:b:6012:CLA:H112	23:b:6023:CLA:O2A	2.13	0.49
23:b:6019:CLA:C6	23:b:6021:CLA:CED	2.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6021:CLA:HBC2	23:b:6021:CLA:CMC	2.43	0.49
3:c:5084:GLN:O	3:c:5086:LEU:N	2.44	0.49
3:c:5263:ALA:N	8:i:5028:PRO:HG2	2.27	0.49
4:d:5304:ARG:HG3	4:d:5311:PHE:CD2	2.48	0.49
23:d:6005:CLA:HMB2	24:d:6038:PHO:H18	1.94	0.49
5:e:5037:PHE:O	5:e:5042:LEU:HB3	2.12	0.49
15:u:5062:ILE:O	15:u:5064:ALA:N	2.46	0.49
16:v:5095:ILE:O	16:v:5096:GLU:C	2.55	0.49
1:A:273:PHE:O	1:A:275:LEU:N	2.46	0.49
1:A:322:ASN:HD21	3:C:412:THR:CG2	2.20	0.49
24:A:1038:PHO:H18	23:D:1005:CLA:HMB2	1.94	0.49
2:B:118:TRP:H	2:B:118:TRP:HD1	1.60	0.49
2:B:145:LEU:HA	2:B:148:LEU:HD23	1.95	0.49
2:B:149:LEU:HB3	23:B:1011:CLA:HBC1	1.95	0.49
2:B:316:GLY:O	2:B:330:MET:HE2	2.13	0.49
2:B:367:PRO:O	2:B:367:PRO:HG2	2.13	0.49
23:B:1010:CLA:CMD	23:B:1011:CLA:H51	2.40	0.49
23:B:1021:CLA:HBC2	23:B:1021:CLA:CMC	2.43	0.49
26:B:1045:BCR:H341	26:B:1047:BCR:H10C	1.94	0.49
3:C:56:HIS:O	3:C:59:LEU:N	2.46	0.49
3:C:60:ILE:HD13	23:C:1027:CLA:HMD2	1.95	0.49
3:C:76:ILE:HD13	3:C:77:PRO:HD2	1.93	0.49
3:C:174:LEU:O	3:C:178:LYS:N	2.46	0.49
5:E:5:THR:C	5:E:7:GLU:H	2.19	0.49
10:K:26:PRO:O	10:K:28:ILE:N	2.45	0.49
13:O:36:ILE:HD12	13:O:36:ILE:N	2.27	0.49
13:O:149:LYS:O	13:O:150:ASN:CB	2.61	0.49
13:O:196:SER:O	13:O:197:ALA:C	2.55	0.49
20:Z:5:PHE:O	20:Z:7:LEU:N	2.46	0.49
1:a:5069:GLY:O	1:a:5070:SER:HB2	2.11	0.49
1:a:5094:TYR:N	1:a:5113:GLN:OE1	2.44	0.49
1:a:5176:ILE:HG22	1:a:5180:PHE:CZ	2.47	0.49
1:a:5329:GLU:O	1:a:5332:HIS:ND1	2.32	0.49
23:a:6003:CLA:H161	24:d:6038:PHO:H62	1.95	0.49
2:b:5364:PRO:HB2	4:d:5345:VAL:CG1	2.43	0.49
2:b:5446:GLY:O	2:b:5449:THR:HB	2.13	0.49
3:c:5114:VAL:HG12	3:c:5118:HIS:HD2	1.78	0.49
3:c:5274:TYR:HB3	23:c:6031:CLA:HAB	1.95	0.49
4:d:5168:PHE:C	4:d:5168:PHE:CD2	2.91	0.49
26:d:6050:BCR:H282	29:d:6059:MGE:CBB	2.30	0.49
31:e:6040:HEM:CHD	6:f:5020:TRP:NE1	2.63	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l:5036:PHE:CD2	14:t:5002:GLU:HA	2.48	0.49
13:o:5151:LEU:HD12	13:o:5152:VAL:H	1.77	0.49
1:A:50:ILE:CB	26:A:1044:BCR:H391	2.43	0.49
2:B:31:ALA:O	2:B:34:ALA:HB3	2.13	0.49
2:B:222:PRO:HG3	7:H:27:THR:HG23	1.95	0.49
2:B:252:VAL:HG12	2:B:451:PHE:CE2	2.48	0.49
2:B:483:ASP:O	2:B:485:GLU:N	2.46	0.49
23:B:1024:CLA:HBD	23:B:1024:CLA:HBA2	1.95	0.49
3:C:56:HIS:C	3:C:58:GLY:H	2.21	0.49
3:C:120:ILE:HG21	26:Z:1053:BCR:C34	2.43	0.49
3:C:131:TYR:C	3:C:133:ALA:H	2.20	0.49
3:C:173:LEU:O	3:C:176:VAL:HB	2.12	0.49
23:C:1028:CLA:H43	30:C:1057:DGD:C2A	2.26	0.49
23:C:1032:CLA:C15	23:C:1032:CLA:C19	2.90	0.49
23:C:1033:CLA:C12	23:C:1033:CLA:H92	2.36	0.49
4:D:39:PRO:HB2	23:D:1008:CLA:HMC2	1.95	0.49
5:E:59:GLU:HA	5:E:59:GLU:OE2	2.12	0.49
13:O:90:GLU:HG3	13:O:91:PHE:N	2.27	0.49
15:U:72:TYR:CD2	15:U:73:PRO:N	2.80	0.49
1:a:5330:VAL:CG2	1:a:5331:MET:N	2.76	0.49
27:a:6063:LHG:O10	27:a:6063:LHG:HC82	2.13	0.49
2:b:5124:ARG:NH1	2:b:5124:ARG:CB	2.76	0.49
2:b:5333:ILE:HG22	2:b:5333:ILE:O	2.13	0.49
2:b:5389:PHE:HA	2:b:5394:VAL:CG1	2.43	0.49
23:b:6009:CLA:O1A	23:b:6009:CLA:O1D	2.30	0.49
23:b:6010:CLA:HMD3	23:b:6011:CLA:H102	1.94	0.49
23:b:6011:CLA:C2D	23:b:6013:CLA:H43	2.41	0.49
23:b:6016:CLA:H203	23:d:6008:CLA:HMA1	1.94	0.49
23:b:6020:CLA:CGA	23:b:6020:CLA:C5	2.90	0.49
23:b:6023:CLA:HAA2	23:b:6023:CLA:O2D	2.11	0.49
23:b:6024:CLA:HBA2	23:b:6024:CLA:HBD	1.95	0.49
26:b:6047:BCR:C32	26:b:6047:BCR:C9	2.59	0.49
29:b:6060:MGE:O1B	29:b:6060:MGE:H1G1	2.12	0.49
3:c:5311:GLN:NE2	3:c:5351:PHE:HD2	2.11	0.49
4:d:5148:ALA:HB3	4:d:5149:PRO:HD3	1.94	0.49
4:d:5304:ARG:HG2	4:d:5311:PHE:CE2	2.48	0.49
26:d:6050:BCR:C20	29:d:6059:MGE:H5A1	2.43	0.49
12:m:5017:VAL:HG12	12:m:5018:PRO:N	2.28	0.49
13:o:5222:GLN:O	13:o:5243:SER:HA	2.13	0.49
14:t:5024:ARG:O	14:t:5026:PRO:HD3	2.13	0.49
16:v:5061:TYR:C	16:v:5061:TYR:CD1	2.91	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:v:6041:HEM:HMA2	31:v:6041:HEM:HBA2	1.95	0.49
18:y:5007:ILE:HA	18:y:5010:ILE:HD13	1.94	0.49
1:A:16:ARG:O	1:A:17:PHE:C	2.56	0.48
1:A:95:PRO:O	1:A:98:GLU:N	2.45	0.48
1:A:139:MET:HA	3:C:459:ILE:HD11	1.94	0.48
1:A:205:VAL:C	1:A:207:GLY:H	2.20	0.48
1:A:214:MET:HG3	25:A:1043:PQ9:H142	1.95	0.48
1:A:279:ARG:O	1:A:283:VAL:HG13	2.13	0.48
1:A:280:VAL:CA	1:A:283:VAL:HG13	2.43	0.48
1:A:314:ILE:HD12	4:D:58:TRP:CH2	2.48	0.48
1:A:340:PRO:HB3	15:U:133:TYR:CD2	2.48	0.48
2:B:156:PHE:CB	2:B:162:PHE:HB3	2.42	0.48
2:B:201:HIS:O	2:B:204:ALA:HB3	2.13	0.48
2:B:241:SER:O	2:B:242:ILE:C	2.56	0.48
29:B:1060:MGE:H5A2	29:B:1060:MGE:H263	1.95	0.48
3:C:124:VAL:CG2	3:C:125:LEU:H	2.21	0.48
3:C:201:ASN:OD1	3:C:201:ASN:O	2.31	0.48
3:C:330:SER:HB2	13:O:149:LYS:NZ	2.28	0.48
3:C:455:PHE:O	3:C:458:GLY:N	2.46	0.48
23:C:1029:CLA:C4	23:C:1029:CLA:C7	2.89	0.48
4:D:18:LEU:O	4:D:19:ASP:C	2.56	0.48
4:D:71:CYS:HB3	4:D:76:VAL:HG22	1.94	0.48
10:K:33:PHE:CD1	10:K:34:ALA:N	2.79	0.48
16:V:129:LYS:O	16:V:133:LEU:HD11	2.13	0.48
16:V:135:GLU:O	16:V:136:LYS:C	2.56	0.48
18:Y:31:ALA:O	18:Y:35:ILE:CG2	2.60	0.48
20:Z:22:GLY:O	20:Z:23:VAL:C	2.56	0.48
1:a:5291:SER:HB3	3:c:5431:PHE:CE1	2.48	0.48
1:a:5323:ARG:NH1	4:d:5332:GLN:NE2	2.60	0.48
2:b:5248:VAL:HG13	30:h:6058:DGD:HB51	1.93	0.48
23:b:6009:CLA:H62	23:b:6009:CLA:H13	1.95	0.48
3:c:5028:GLN:C	3:c:5029:GLU:HG2	2.38	0.48
3:c:5158:THR:O	3:c:5251:HIS:HB3	2.12	0.48
3:c:5450:ALA:C	3:c:5456:GLU:HG2	2.39	0.48
4:d:5148:ALA:HB1	4:d:5279:LEU:HD13	1.93	0.48
4:d:5204:VAL:O	4:d:5204:VAL:HG12	2.11	0.48
6:f:5018:VAL:C	6:f:5020:TRP:H	2.21	0.48
8:i:5006:ILE:HG12	8:i:5007:THR:N	2.28	0.48
11:l:5036:PHE:HE1	12:m:5008:PHE:H	1.61	0.48
20:z:5027:TYR:N	20:z:5027:TYR:HD2	2.11	0.48
2:B:192:PRO:HG2	7:H:49:TYR:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1019:CLA:H162	23:B:1021:CLA:H52	1.95	0.48
23:B:1023:CLA:H193	7:H:7:LEU:HD11	1.93	0.48
3:C:155:ASN:O	3:C:159:THR:N	2.46	0.48
3:C:160:ILE:HB	23:C:1031:CLA:CMD	2.42	0.48
3:C:171:GLY:O	3:C:173:LEU:N	2.46	0.48
3:C:229:ASN:CG	3:C:231:GLU:HG2	2.38	0.48
3:C:240:ILE:O	3:C:244:CYS:SG	2.71	0.48
3:C:418:ASN:HB3	30:C:1057:DGD:HE2	1.95	0.48
23:C:1029:CLA:H192	23:C:1029:CLA:H152	0.62	0.48
12:M:11:THR:O	12:M:12:ALA:C	2.56	0.48
16:V:34:LEU:N	16:V:34:LEU:CD1	2.75	0.48
1:a:5140:ARG:HD2	4:d:5222:LEU:HD11	1.95	0.48
1:a:5184:ILE:O	1:a:5185:VAL:C	2.56	0.48
1:a:5317:TRP:O	1:a:5319:ASP:N	2.46	0.48
1:a:5335:ASN:O	3:c:5335:THR:HG22	2.13	0.48
23:a:6003:CLA:CAD	23:d:6005:CLA:CAC	2.91	0.48
23:a:6003:CLA:H112	23:a:6003:CLA:H91	1.64	0.48
2:b:5015:ARG:HD2	2:b:5115:TRP:CB	2.43	0.48
2:b:5219:PRO:HG3	7:h:5027:THR:CG2	2.43	0.48
2:b:5243:PHE:HB3	2:b:5459:PHE:HB3	1.95	0.48
2:b:5312:ILE:CD1	2:b:5318:LYS:HG3	2.42	0.48
23:b:6019:CLA:H3A	23:b:6019:CLA:CGA	2.30	0.48
3:c:5259:TRP:CZ3	3:c:5260:ALA:HB2	2.47	0.48
3:c:5370:ARG:HD3	13:o:5033:TYR:CD2	2.48	0.48
4:d:5103:ARG:CG	5:e:5073:LYS:HG3	2.30	0.48
4:d:5238:THR:HG22	4:d:5239:GLN:NE2	2.29	0.48
4:d:5259:ILE:HD12	14:t:5020:ALA:O	2.13	0.48
10:k:5037:PHE:O	10:k:5038:VAL:C	2.56	0.48
13:o:5208:LEU:HB2	13:o:5212:ASN:HD21	1.78	0.48
16:v:5136:LYS:O	16:v:5139:VAL:HG22	2.13	0.48
23:A:1006:CLA:CGA	30:C:1057:DGD:HBN2	2.43	0.48
2:B:87:ASP:O	2:B:88:PRO:C	2.55	0.48
2:B:173:GLY:O	2:B:174:LEU:CD1	2.61	0.48
2:B:278:SER:O	2:B:279:TYR:C	2.57	0.48
2:B:380:ASP:O	2:B:382:PRO:HD3	2.13	0.48
4:D:37:LEU:HD13	4:D:125:PHE:HB2	1.95	0.48
4:D:37:LEU:HD22	4:D:128:ARG:HB2	1.95	0.48
4:D:191:TRP:CE2	4:D:197:HIS:HB2	2.48	0.48
29:D:1062:MGE:H222	29:L:1061:MGE:H262	1.96	0.48
5:E:19:TYR:C	5:E:21:VAL:N	2.71	0.48
5:E:51:ARG:O	5:E:53:ASP:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:L:37:ASN:OD1	11:L:37:ASN:OXT	2.32	0.48
12:M:6:LEU:HA	12:M:9:ILE:HD13	1.95	0.48
12:M:11:THR:CG2	12:M:12:ALA:N	2.67	0.48
15:U:82:ASN:ND2	15:U:94:ILE:HG23	2.28	0.48
15:U:129:ASN:O	15:U:131:GLY:N	2.45	0.48
16:V:40:SER:O	16:V:42:GLY:N	2.46	0.48
1:a:5199:GLN:CD	1:a:5200:LEU:N	2.71	0.48
1:a:5279:ARG:CZ	1:a:5283:VAL:HB	2.43	0.48
2:b:5012:ASP:O	2:b:5012:ASP:CG	2.55	0.48
2:b:5218:PRO:HA	23:b:6017:CLA:CED	2.31	0.48
2:b:5299:TRP:O	2:b:5300:SER:C	2.56	0.48
2:b:5450:PHE:O	2:b:5450:PHE:CG	2.66	0.48
3:c:5163:PHE:O	3:c:5167:VAL:HG23	2.13	0.48
3:c:5285:ILE:O	3:c:5289:PHE:HD1	1.95	0.48
3:c:5450:ALA:O	3:c:5456:GLU:HG2	2.14	0.48
23:c:6025:CLA:C9	23:c:6025:CLA:HBB2	2.42	0.48
23:c:6025:CLA:H161	23:c:6031:CLA:CMB	2.42	0.48
26:c:6054:BCR:C8	26:c:6054:BCR:C33	2.90	0.48
4:d:5064:ALA:O	4:d:5071:CYS:SG	2.71	0.48
4:d:5094:GLY:C	4:d:5096:GLU:H	2.21	0.48
4:d:5235:PHE:HZ	4:d:5242:GLU:C	2.22	0.48
11:l:5012:LEU:HD13	11:l:5013:ASN:N	2.28	0.48
15:u:5062:ILE:C	15:u:5064:ALA:H	2.21	0.48
16:v:5083:GLU:OE1	16:v:5083:GLU:N	2.46	0.48
1:A:11:ALA:HB1	1:A:15:GLU:HB3	1.95	0.48
1:A:97:TRP:HB3	8:I:1:MET:HE2	1.95	0.48
1:A:97:TRP:CZ2	8:I:9:TYR:HE2	2.31	0.48
1:A:199:GLN:OE1	1:A:200:LEU:N	2.47	0.48
1:A:223:LEU:HB2	4:D:265:ARG:CZ	2.43	0.48
1:A:319:ASP:O	1:A:322:ASN:HB2	2.13	0.48
1:A:328:MET:SD	4:D:325:ILE:HD11	2.54	0.48
23:A:1006:CLA:HBA1	30:C:1057:DGD:HBN1	1.95	0.48
2:B:52:LEU:CD1	2:B:339:ALA:HA	2.44	0.48
2:B:153:PHE:N	23:B:1014:CLA:HMC3	2.29	0.48
2:B:158:LEU:HB3	2:B:199:VAL:HG22	1.95	0.48
2:B:211:ILE:HG22	2:B:212:ALA:N	2.27	0.48
2:B:222:PRO:HD2	23:H:1017:CLA:CED	2.44	0.48
2:B:258:TYR:C	2:B:259:GLY:O	2.57	0.48
2:B:311:PHE:CA	2:B:430:PHE:CZ	2.97	0.48
2:B:389:LYS:HD2	2:B:390:TYR:HE1	1.77	0.48
23:B:1012:CLA:HBC2	23:B:1012:CLA:CHD	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1020:CLA:CED	23:B:1020:CLA:CAD	2.92	0.48
3:C:95:LEU:HD21	23:C:1027:CLA:HBB2	1.96	0.48
3:C:172:ALA:CB	3:C:241:GLY:HA2	2.43	0.48
3:C:179:ALA:O	3:C:198:VAL:CG1	2.61	0.48
3:C:368:PRO:C	3:C:370:ARG:H	2.20	0.48
3:C:449:ARG:NE	23:C:1029:CLA:CED	2.76	0.48
4:D:90:LEU:HD23	4:D:96:GLU:CG	2.43	0.48
4:D:92:LEU:HB3	4:D:93:TRP:CZ3	2.48	0.48
4:D:210:LEU:HD11	4:D:274:VAL:HG21	1.95	0.48
26:Z:1053:BCR:H403	26:Z:1053:BCR:H271	1.96	0.48
1:a:5028:LEU:HD23	4:d:5254:SER:O	2.14	0.48
1:a:5216:GLY:C	1:a:5219:VAL:HG12	2.39	0.48
1:a:5340:PRO:HB3	15:u:5133:TYR:HD2	1.76	0.48
24:a:6039:PHO:H91	4:d:5153:PHE:HE2	1.78	0.48
2:b:5137:GLY:C	2:b:5214:ILE:HD13	2.38	0.48
2:b:5155:LEU:HB3	2:b:5196:VAL:HG22	1.96	0.48
2:b:5217:ARG:HG3	7:h:5022:ALA:HB2	1.94	0.48
2:b:5223:TYR:CD2	2:b:5228:MET:HG3	2.48	0.48
2:b:5269:ARG:HG2	2:b:5317:ALA:HB2	1.96	0.48
2:b:5463:HIS:CD2	2:b:5464:ILE:HD12	2.48	0.48
3:c:5100:GLY:HA3	3:c:5104:GLU:O	2.13	0.48
3:c:5346:THR:O	13:o:5042:ALA:HB3	2.13	0.48
23:c:6029:CLA:H191	23:c:6029:CLA:H71	1.95	0.48
23:c:6032:CLA:C17	23:c:6034:CLA:H191	2.44	0.48
4:d:5024:ARG:HG2	4:d:5024:ARG:NH2	2.28	0.48
4:d:5043:LEU:HD12	26:d:6050:BCR:C32	2.44	0.48
4:d:5261:PHE:HE2	4:d:5266:TRP:HD1	1.60	0.48
29:d:6061:MGE:H262	29:d:6062:MGE:H222	1.96	0.48
5:e:5035:TRP:CD1	5:e:5035:TRP:C	2.91	0.48
7:h:5013:PRO:O	7:h:5014:LEU:C	2.55	0.48
8:i:5017:LEU:O	8:i:5021:PHE:HB2	2.13	0.48
10:k:5038:VAL:HG13	26:k:6051:BCR:H373	1.95	0.48
1:A:191:ASN:HB3	1:A:194:MET:HB2	1.95	0.48
1:A:223:LEU:CG	4:D:265:ARG:CZ	2.91	0.48
1:A:273:PHE:C	1:A:275:LEU:N	2.71	0.48
1:A:288:LEU:HD11	3:C:435:PHE:HD2	1.77	0.48
2:B:5:TRP:CE3	23:B:1019:CLA:H42	2.40	0.48
2:B:15:ASP:C	2:B:17:GLY:N	2.71	0.48
23:B:1011:CLA:C2D	23:B:1013:CLA:C4	2.92	0.48
23:B:1013:CLA:H72	23:B:1020:CLA:H18	1.96	0.48
23:B:1019:CLA:H51	23:B:1021:CLA:CED	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:51:GLY:CA	3:C:132:HIS:HB2	2.33	0.48
3:C:71:GLU:HB3	3:C:89:ILE:HD12	1.96	0.48
3:C:131:TYR:C	3:C:133:ALA:N	2.68	0.48
3:C:234:VAL:C	3:C:236:GLY:N	2.70	0.48
3:C:406:SER:CB	30:C:1056:DGD:HE1	2.44	0.48
23:C:1026:CLA:HBA1	23:C:1027:CLA:C2C	2.44	0.48
23:C:1028:CLA:H121	23:C:1028:CLA:H171	1.77	0.48
4:D:43:LEU:HD12	26:D:1050:BCR:HC7	1.95	0.48
4:D:44:ALA:C	4:D:46:GLY:N	2.69	0.48
4:D:261:PHE:CZ	4:D:267:LEU:HB2	2.47	0.48
4:D:318:ASN:O	4:D:321:LEU:HB2	2.14	0.48
26:D:1050:BCR:C20	29:J:1059:MGE:H5A1	2.43	0.48
5:E:34:GLY:HA3	6:F:32:PHE:CD2	2.47	0.48
9:J:39:SER:C	9:J:40:LEU:HD22	2.38	0.48
10:K:19:ASP:N	10:K:20:PRO:HD2	2.28	0.48
12:M:9:ILE:HD12	12:m:5009:ILE:HD11	1.83	0.48
13:O:105:ASP:O	13:O:106:GLN:CB	2.62	0.48
18:Y:46:LEU:H	18:Y:46:LEU:HD12	1.77	0.48
1:a:5041:LEU:CD2	1:a:5122:GLY:HA3	2.44	0.48
1:a:5223:LEU:HG	4:d:5265:ARG:CD	2.43	0.48
2:b:5190:TYR:OH	2:b:5256:GLY:HA3	2.14	0.48
2:b:5192:PRO:O	2:b:5194:GLY:N	2.47	0.48
2:b:5386:LYS:HD2	2:b:5387:TYR:HE1	1.77	0.48
2:b:5457:LEU:CG	30:h:6058:DGD:HAG1	2.43	0.48
2:b:5461:PHE:CD1	2:b:5462:GLY:CA	2.96	0.48
23:b:6020:CLA:HBB1	23:b:6021:CLA:CBA	2.37	0.48
23:b:6023:CLA:HBB1	23:b:6023:CLA:CHC	2.38	0.48
3:c:5053:HIS:CB	23:c:6036:CLA:HMD3	2.44	0.48
3:c:5114:VAL:O	3:c:5118:HIS:HD2	1.97	0.48
3:c:5151:TRP:C	3:c:5153:ASP:N	2.71	0.48
3:c:5186:TYR:OH	3:c:5194:GLY:HA3	2.14	0.48
3:c:5284:PHE:C	3:c:5286:ALA:N	2.72	0.48
4:d:5149:PRO:O	4:d:5152:VAL:CG1	2.55	0.48
4:d:5198:MET:HE1	11:l:5034:TYR:OH	2.14	0.48
7:h:5004:ARG:C	7:h:5005:THR:HG22	2.38	0.48
7:h:5053:LEU:HD13	17:x:5019:PHE:HB2	1.93	0.48
8:i:5015:PHE:C	8:i:5017:LEU:N	2.69	0.48
11:l:5023:LEU:O	11:l:5023:LEU:HD12	2.13	0.48
12:m:5028:GLN:NE2	12:m:5029:THR:N	2.62	0.48
13:o:5044:LYS:HE3	13:o:5072:GLN:OE1	2.14	0.48
15:u:5106:ARG:O	15:u:5109:LEU:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:5116:GLU:HG3	16:v:5116:GLU:O	2.13	0.48
1:A:63:ILE:CG1	1:A:65:GLU:HG2	2.43	0.48
1:A:272:HIS:CG	4:D:218:VAL:HG21	2.49	0.48
1:A:344:ALA:O	3:C:357:ARG:NH2	2.47	0.48
2:B:5:TRP:O	23:B:1019:CLA:H2	2.13	0.48
2:B:188:ASP:OD1	7:H:58:VAL:HA	2.14	0.48
2:B:326:ARG:HE	2:B:442:ILE:CG2	2.26	0.48
2:B:416:THR:O	2:B:419:SER:HB3	2.13	0.48
2:B:458:PHE:CD2	23:B:1012:CLA:CMC	2.91	0.48
2:B:479:PHE:C	2:B:481:GLY:N	2.70	0.48
23:B:1009:CLA:H12	26:H:1049:BCR:C15	2.29	0.48
3:C:63:TRP:HZ2	3:C:67:MET:HE2	1.79	0.48
3:C:76:ILE:CD1	3:C:77:PRO:HD2	2.44	0.48
3:C:118:HIS:O	3:C:122:SER:N	2.43	0.48
3:C:299:SER:HA	3:C:303:GLY:O	2.14	0.48
3:C:354:GLU:O	3:C:356:MET:N	2.46	0.48
4:D:72:ASN:HD21	4:D:74:LEU:HG	1.79	0.48
4:D:76:VAL:HG12	4:D:77:ALA:N	2.27	0.48
4:D:134:ARG:CA	4:D:134:ARG:NE	2.74	0.48
4:D:321:LEU:O	4:D:324:GLY:N	2.47	0.48
13:O:184:ASP:O	13:O:185:PRO:C	2.54	0.48
13:O:239:GLY:O	13:O:264:VAL:HG13	2.13	0.48
16:V:89:THR:HA	16:V:90:PRO:C	2.38	0.48
16:V:96:GLU:O	16:V:99:VAL:HB	2.13	0.48
1:a:5039:PRO:HB2	23:a:6007:CLA:HAB	1.96	0.48
1:a:5159:LEU:HD11	30:c:6055:DGD:HA22	1.94	0.48
1:a:5197:PHE:HE1	1:a:5285:PHE:CD2	2.32	0.48
1:a:5339:PHE:O	4:d:5351:ALA:HB1	2.12	0.48
2:b:5025:ALA:O	2:b:5029:GLY:N	2.47	0.48
2:b:5088:TRP:CH2	23:b:6014:CLA:O2A	2.67	0.48
2:b:5230:ASN:C	2:b:5232:GLU:N	2.72	0.48
2:b:5280:GLU:OE1	2:b:5280:GLU:CA	2.61	0.48
2:b:5364:PRO:HB2	4:d:5345:VAL:HG12	1.96	0.48
2:b:5480:ASP:O	2:b:5482:GLU:N	2.46	0.48
23:b:6017:CLA:C19	7:h:5039:LEU:HD11	2.43	0.48
3:c:5133:ALA:CB	3:c:5134:ILE:HD12	2.44	0.48
3:c:5225:VAL:HG11	3:c:5292:PHE:HB2	1.96	0.48
3:c:5362:ARG:HG3	3:c:5362:ARG:NH1	2.29	0.48
3:c:5435:PHE:O	3:c:5438:LEU:N	2.47	0.48
3:c:5459:ILE:HB	4:d:5223:PHE:HD1	1.77	0.48
4:d:5082:ALA:O	4:d:5085:MET:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5184:PHE:CD1	4:d:5184:PHE:C	2.92	0.48
4:d:5297:ASP:O	4:d:5298:PHE:HD1	1.96	0.48
26:h:6049:BCR:H23C	26:h:6049:BCR:H392	1.94	0.48
9:j:5015:THR:HG23	26:k:6051:BCR:H373	1.95	0.48
10:k:5031:LEU:HD12	26:k:6051:BCR:H353	1.94	0.48
20:z:5015:LEU:HD11	20:z:5043:GLY:HA3	1.94	0.48
1:A:122:GLY:O	1:A:125:CYS:HB2	2.12	0.48
1:A:126:TYR:CZ	24:A:1038:PHO:O1A	2.67	0.48
1:A:159:LEU:CD1	1:A:163:ILE:HD11	2.43	0.48
1:A:279:ARG:CZ	4:D:208:ALA:HB1	2.44	0.48
27:A:1063:LHG:HC82	27:A:1063:LHG:O10	2.13	0.48
2:B:215:PHE:C	2:B:215:PHE:CD2	2.91	0.48
2:B:283:GLU:O	2:B:286:ARG:N	2.46	0.48
2:B:314:TYR:CE2	2:B:316:GLY:HA3	2.48	0.48
2:B:357:ARG:O	2:B:425:ILE:HD12	2.13	0.48
2:B:457:VAL:O	2:B:461:LEU:CG	2.60	0.48
23:B:1009:CLA:O1A	23:B:1009:CLA:O1D	2.30	0.48
23:B:1016:CLA:H203	23:D:1008:CLA:HMA1	1.94	0.48
23:B:1022:CLA:HED1	12:m:5036:SER:HB2	1.96	0.48
23:B:1023:CLA:C4C	23:B:1024:CLA:CBC	2.83	0.48
3:C:286:ALA:O	3:C:289:PHE:N	2.47	0.48
3:C:288:CYS:CB	30:C:1055:DGD:HB21	2.43	0.48
4:D:97:ALA:CB	4:D:104:TRP:HB2	2.44	0.48
4:D:210:LEU:C	4:D:212:ALA:N	2.69	0.48
4:D:324:GLY:C	4:D:326:ARG:N	2.71	0.48
23:D:1005:CLA:CED	25:D:1042:PQ9:H391	2.43	0.48
5:E:12:ASP:O	5:E:14:ILE:N	2.47	0.48
7:H:31:MET:HB2	23:H:1017:CLA:C3D	2.44	0.48
15:U:118:GLU:HB3	15:U:121:LEU:HB2	1.95	0.48
16:V:60:GLN:HA	16:V:64:ALA:HB2	1.95	0.48
20:Z:53:VAL:C	20:Z:55:GLY:H	2.22	0.48
1:a:5037:MET:O	1:a:5040:THR:HB	2.14	0.48
1:a:5076:ASN:ND2	1:a:5078:ILE:N	2.60	0.48
1:a:5334:ARG:HG2	1:a:5335:ASN:OD1	2.13	0.48
27:a:6063:LHG:H292	23:c:6032:CLA:C6	2.44	0.48
23:b:6013:CLA:H72	23:b:6020:CLA:H18	1.96	0.48
26:b:6045:BCR:C30	26:b:6045:BCR:C37	2.61	0.48
3:c:5046:SER:H	3:c:5140:LEU:CD2	2.27	0.48
3:c:5284:PHE:C	3:c:5286:ALA:H	2.20	0.48
3:c:5293:ASN:O	3:c:5423:ARG:NH2	2.46	0.48
13:o:5133:THR:HG23	13:o:5143:PRO:CB	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5246:LEU:N	13:o:5246:LEU:HD23	2.29	0.48
1:A:142:TRP:HH2	27:A:1063:LHG:HC11	1.79	0.48
1:A:265:PHE:CD1	1:A:271:LEU:HD13	2.47	0.48
1:A:315:ASN:O	4:D:63:LEU:HD23	2.13	0.48
2:B:229:LEU:HD23	2:B:229:LEU:C	2.39	0.48
2:B:318:ASN:HD22	2:B:319:PRO:N	2.10	0.48
3:C:244:CYS:HA	23:C:1030:CLA:CMC	2.43	0.48
23:C:1029:CLA:H52	23:C:1029:CLA:CHC	2.44	0.48
4:D:253:TRP:C	4:D:255:GLN:H	2.21	0.48
4:D:270:PHE:HZ	25:D:1042:PQ9:H243	1.78	0.48
5:E:19:TYR:HD1	5:E:20:TRP:CD1	2.29	0.48
5:E:43:ALA:O	5:E:44:TYR:C	2.57	0.48
7:H:44:ILE:HG22	17:X:19:PHE:CZ	2.48	0.48
7:H:50:ASN:ND2	7:H:50:ASN:O	2.45	0.48
8:I:9:TYR:O	8:I:10:ILE:C	2.56	0.48
8:I:30:ARG:HA	8:I:30:ARG:HH11	1.74	0.48
10:K:28:ILE:N	10:K:29:PRO:CD	2.76	0.48
12:M:9:ILE:CG2	12:m:5008:PHE:CE1	2.90	0.48
13:O:70:CYS:C	13:O:71:LEU:HD12	2.38	0.48
13:O:184:ASP:CB	13:O:185:PRO:HD2	2.37	0.48
1:a:5053:ILE:HA	1:a:5071:LEU:HD12	1.95	0.48
1:a:5057:PRO:HG2	13:o:5141:ARG:CZ	2.43	0.48
1:a:5195:HIS:ND1	1:a:5196:PRO:CD	2.76	0.48
23:a:6006:CLA:CBA	30:c:6057:DGD:CFB	2.91	0.48
2:b:5056:GLY:H	2:b:5326:PRO:CB	2.25	0.48
2:b:5117:LEU:O	2:b:5120:PHE:HB2	2.14	0.48
2:b:5168:PRO:HG3	7:h:5063:LYS:HA	1.96	0.48
2:b:5274:SER:C	2:b:5276:TYR:H	2.18	0.48
2:b:5333:ILE:O	2:b:5335:GLN:HG2	2.14	0.48
2:b:5438:GLY:O	2:b:5439:ILE:CG1	2.62	0.48
2:b:5465:TRP:CD1	2:b:5465:TRP:C	2.88	0.48
23:b:6010:CLA:H41	7:h:5046:LEU:HB2	1.96	0.48
23:b:6020:CLA:CED	23:b:6020:CLA:CAD	2.92	0.48
23:b:6023:CLA:C3D	23:b:6024:CLA:HMC3	2.44	0.48
3:c:5120:ILE:HG13	26:z:6053:BCR:H343	1.96	0.48
3:c:5170:ILE:HG22	3:c:5171:GLY:N	2.27	0.48
3:c:5310:SER:O	3:c:5313:GLN:HB3	2.14	0.48
3:c:5382:ASN:C	3:c:5384:ILE:N	2.70	0.48
23:c:6029:CLA:HMA3	23:c:6029:CLA:HAA2	1.76	0.48
23:c:6029:CLA:C4	23:c:6029:CLA:C7	2.89	0.48
4:d:5021:TRP:O	4:d:5024:ARG:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5029:PHE:CD1	4:d:5030:VAL:N	2.81	0.48
4:d:5251:ARG:O	4:d:5255:GLN:HG3	2.12	0.48
4:d:5304:ARG:NH1	4:d:5311:PHE:HD2	2.11	0.48
12:m:5001:MET:HB3	12:m:5002:GLU:H	1.50	0.48
12:m:5013:LEU:C	12:m:5015:VAL:H	2.21	0.48
13:o:5208:LEU:N	13:o:5208:LEU:CD1	2.74	0.48
16:v:5047:LEU:HA	16:v:5051:GLN:NE2	2.29	0.48
16:v:5058:LEU:O	16:v:5059:PHE:C	2.56	0.48
16:v:5135:GLU:OE1	16:v:5135:GLU:HA	2.12	0.48
1:A:135:TYR:CE2	3:C:449:ARG:NH1	2.82	0.48
1:A:147:TYR:HA	1:A:150:PRO:HG2	1.94	0.48
1:A:195:HIS:ND1	1:A:196:PRO:CD	2.68	0.48
1:A:199:GLN:NE2	30:C:1057:DGD:HBW2	2.29	0.48
1:A:244:GLU:HG3	4:D:264:LYS:HZ2	1.79	0.48
1:A:273:PHE:CG	1:A:274:PHE:N	2.79	0.48
1:A:278:TRP:CH2	30:C:1057:DGD:CIA	2.86	0.48
2:B:27:THR:CB	23:B:1020:CLA:H11	2.44	0.48
2:B:92:SER:OG	2:B:94:GLU:HG2	2.14	0.48
2:B:113:TRP:HD1	26:B:1048:BCR:C37	2.26	0.48
2:B:150:CYS:O	2:B:152:GLY:N	2.47	0.48
2:B:444:ARG:HD2	2:B:444:ARG:N	2.29	0.48
3:C:213:LEU:HD23	3:C:213:LEU:H	1.79	0.48
3:C:344:SER:C	3:C:346:THR:N	2.72	0.48
30:C:1056:DGD:CAB	30:C:1056:DGD:HBF2	2.34	0.48
4:D:189:HIS:CG	4:D:289:LEU:HD12	2.48	0.48
4:D:194:ASN:O	4:D:198:MET:HE2	2.13	0.48
4:D:239:GLN:O	4:D:240:ALA:C	2.56	0.48
4:D:267:LEU:HD23	4:D:268:HIS:CD2	2.49	0.48
11:L:15:THR:O	11:L:15:THR:CG2	2.60	0.48
11:L:30:LEU:HD22	11:L:31:PHE:CD1	2.36	0.48
12:M:15:VAL:O	12:M:15:VAL:HG12	2.14	0.48
14:T:8:PHE:O	14:T:9:ILE:C	2.55	0.48
16:V:118:HIS:C	16:V:118:HIS:HD1	2.22	0.48
16:V:128:PRO:O	16:V:129:LYS:C	2.56	0.48
20:Z:3:ILE:HD12	20:Z:3:ILE:N	2.19	0.48
20:Z:46:LEU:HB3	20:Z:50:LEU:HD12	1.94	0.48
1:a:5271:LEU:HD13	1:a:5272:HIS:CE1	2.49	0.48
1:a:5303:ASN:ND2	3:c:5412:THR:HA	2.24	0.48
23:a:6003:CLA:C16	24:d:6038:PHO:C9	2.57	0.48
2:b:5411:PRO:O	2:b:5412:PRO:C	2.56	0.48
2:b:5411:PRO:HB2	2:b:5412:PRO:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5460:PHE:CD1	2:b:5460:PHE:C	2.91	0.48
2:b:5472:PHE:CE1	4:d:5140:PRO:HB3	2.49	0.48
3:c:5033:PHE:CD2	3:c:5034:ALA:N	2.77	0.48
3:c:5058:GLY:C	3:c:5125:LEU:CD1	2.86	0.48
3:c:5243:ILE:HG22	23:c:6030:CLA:HAC2	1.96	0.48
3:c:5274:TYR:HB3	23:c:6031:CLA:C3B	2.44	0.48
3:c:5286:ALA:HB2	23:c:6026:CLA:HMD1	1.95	0.48
3:c:5297:TYR:HB3	3:c:5423:ARG:NH1	2.28	0.48
3:c:5334:PRO:CD	3:c:5335:THR:H	2.27	0.48
26:c:6054:BCR:C8	26:c:6054:BCR:H331	2.43	0.48
4:d:5259:ILE:CD1	14:t:5021:ILE:HA	2.43	0.48
5:e:5010:PHE:C	5:e:5012:ASP:H	2.20	0.48
26:h:6049:BCR:H361	26:h:6049:BCR:C37	2.36	0.48
10:k:5035:LEU:O	10:k:5039:VAL:HG23	2.14	0.48
15:u:5059:ASN:O	15:u:5060:THR:O	2.32	0.48
16:v:5120:SER:C	16:v:5122:ARG:N	2.71	0.48
1:A:62:GLY:O	1:A:63:ILE:C	2.56	0.48
1:A:201:GLY:O	1:A:205:VAL:HG23	2.14	0.48
1:A:202:VAL:HG11	23:A:1006:CLA:CAD	2.44	0.48
1:A:245:THR:OG1	4:D:265:ARG:HD3	2.13	0.48
23:A:1003:CLA:H161	24:A:1038:PHO:H62	1.95	0.48
24:A:1038:PHO:ND	4:D:209:LEU:HD11	2.29	0.48
2:B:7:ARG:HA	23:B:1019:CLA:CBA	2.42	0.48
2:B:17:GLY:C	2:B:19:LEU:H	2.22	0.48
23:B:1011:CLA:H171	23:B:1016:CLA:HBC3	1.95	0.48
23:B:1016:CLA:C5	23:B:1016:CLA:H92	2.43	0.48
3:C:218:PHE:O	3:C:221:GLU:O	2.32	0.48
3:C:449:ARG:CZ	23:C:1029:CLA:CED	2.90	0.48
26:C:1054:BCR:H331	26:C:1054:BCR:C8	2.43	0.48
4:D:222:LEU:HA	4:D:244:TYR:HA	1.96	0.48
6:F:44:GLN:O	6:F:45:ARG:HB3	2.14	0.48
6:F:45:ARG:HH11	6:F:45:ARG:HG3	1.79	0.48
16:V:121:LEU:CD2	16:V:138:LEU:HD11	2.43	0.48
20:Z:50:LEU:HA	20:Z:53:VAL:CG2	2.44	0.48
1:a:5095:PRO:HB2	1:a:5097:TRP:CE2	2.49	0.48
1:a:5135:TYR:OH	8:i:5028:PRO:O	2.32	0.48
1:a:5147:TYR:C	1:a:5150:PRO:CG	2.86	0.48
1:a:5207:GLY:O	1:a:5208:GLY:C	2.56	0.48
1:a:5288:LEU:O	1:a:5289:GLY:C	2.57	0.48
23:a:6006:CLA:CBC	23:a:6006:CLA:CHD	2.76	0.48
27:a:6063:LHG:P	27:a:6063:LHG:HC62	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5140:LEU:HD13	2:b:5140:LEU:C	2.38	0.48
2:b:5236:SER:C	2:b:5238:SER:N	2.50	0.48
3:c:5045:LEU:HB2	3:c:5140:LEU:HD22	1.96	0.48
3:c:5098:GLY:HA3	3:c:5111:PHE:HE1	1.79	0.48
3:c:5106:VAL:HG13	3:c:5107:ASP:H	1.79	0.48
3:c:5121:SER:CA	3:c:5124:VAL:CG2	2.91	0.48
3:c:5442:LEU:O	3:c:5443:TRP:C	2.57	0.48
4:d:5196:PHE:CE1	11:l:5031:PHE:HZ	2.31	0.48
4:d:5233:ARG:O	4:d:5234:ALA:C	2.56	0.48
14:t:5001:MET:N	14:t:5004:ILE:HG12	2.27	0.48
15:u:5069:ARG:HB3	16:v:5087:LEU:O	2.14	0.48
20:z:5009:LEU:O	20:z:5011:ALA:N	2.47	0.48
1:A:199:GLN:CG	1:A:200:LEU:N	2.76	0.47
23:A:1003:CLA:CAD	23:D:1005:CLA:CAC	2.91	0.47
23:A:1006:CLA:CBC	4:D:182:LEU:HD21	2.44	0.47
24:A:1038:PHO:H3A	24:A:1038:PHO:HBA2	1.36	0.47
2:B:5:TRP:C	2:B:7:ARG:H	2.20	0.47
2:B:434:THR:CG2	13:O:204:LYS:HE2	2.44	0.47
23:B:1023:CLA:C3D	23:B:1024:CLA:HMC3	2.44	0.47
3:C:280:SER:OG	3:C:438:LEU:HB2	2.13	0.47
3:C:334:PRO:HA	13:O:179:THR:HB	1.94	0.47
3:C:367:GLU:HB2	3:C:368:PRO:CD	2.38	0.47
23:D:1005:CLA:H161	29:D:1062:MGE:CFB	2.45	0.47
5:E:74:GLN:O	5:E:77:GLU:HB3	2.14	0.47
7:H:49:TYR:CG	30:H:1058:DGD:O1B	2.67	0.47
7:H:58:VAL:O	7:H:58:VAL:HG12	2.14	0.47
9:J:40:LEU:N	9:J:40:LEU:CD2	2.77	0.47
10:K:35:LEU:HA	10:K:38:VAL:CG2	2.44	0.47
15:U:46:LYS:HE3	15:U:115:THR:OG1	2.13	0.47
15:U:57:LEU:CD1	15:U:112:PHE:HB3	2.44	0.47
31:V:1041:HEM:HBA2	31:V:1041:HEM:HMA2	1.95	0.47
20:Z:46:LEU:O	20:Z:50:LEU:HB2	2.14	0.47
1:a:5087:ASN:HD22	3:c:5357:ARG:CG	2.26	0.47
1:a:5224:ILE:O	2:b:5478:GLY:HA3	2.14	0.47
1:a:5228:THR:HA	2:b:5477:SER:HB2	1.91	0.47
2:b:5089:SER:C	2:b:5091:GLU:N	2.71	0.47
2:b:5202:ALA:HA	2:b:5205:VAL:HB	1.95	0.47
2:b:5377:ASP:OD2	4:d:5344:GLU:OE2	2.32	0.47
2:b:5381:ARG:HG2	13:o:5192:SER:OG	2.14	0.47
2:b:5473:ARG:HG3	2:b:5474:ASP:N	2.29	0.47
3:c:5048:LYS:HG2	23:c:6035:CLA:HAA2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5120:ILE:HD11	26:k:6052:BCR:H332	1.95	0.47
4:d:5019:ASP:O	4:d:5020:ASP:C	2.56	0.47
4:d:5061:HIS:O	4:d:5063:LEU:N	2.47	0.47
4:d:5188:PHE:CD1	4:d:5188:PHE:N	2.74	0.47
4:d:5344:GLU:HG3	4:d:5345:VAL:N	2.26	0.47
5:e:5022:ILE:HG23	5:e:5022:ILE:O	2.14	0.47
7:h:5043:LEU:HD21	7:h:5047:GLU:OE1	2.14	0.47
10:k:5028:ILE:N	10:k:5029:PRO:CD	2.76	0.47
13:o:5065:ARG:NE	13:o:5110:GLU:N	2.61	0.47
13:o:5118:SER:CA	13:o:5155:THR:HG22	2.43	0.47
16:v:5066:CYS:HB2	16:v:5067:HIS:CE1	2.49	0.47
16:v:5124:ALA:O	16:v:5126:ILE:HG13	2.13	0.47
1:A:59:ASP:O	1:A:86:SER:HB2	2.14	0.47
1:A:76:ASN:ND2	1:A:78:ILE:N	2.62	0.47
1:A:199:GLN:OE1	1:A:200:LEU:HG	2.12	0.47
1:A:273:PHE:CD1	1:A:274:PHE:N	2.81	0.47
1:A:317:TRP:C	1:A:319:ASP:H	2.22	0.47
1:A:323:ARG:HG3	1:A:323:ARG:NH1	2.19	0.47
23:A:1006:CLA:HED2	23:A:1006:CLA:CAA	2.44	0.47
2:B:33:TRP:HE1	23:B:1015:CLA:CAC	2.28	0.47
2:B:103:LEU:HD22	2:B:107:LEU:HG	1.95	0.47
2:B:148:LEU:N	2:B:210:ILE:CD1	2.75	0.47
2:B:383:PHE:CE1	13:O:194:TYR:N	2.82	0.47
2:B:445:THR:HG23	2:B:450:TRP:NE1	2.29	0.47
2:B:460:LEU:CG	30:H:1058:DGD:HAG3	2.43	0.47
23:B:1015:CLA:H93	11:L:31:PHE:HE2	1.78	0.47
23:B:1022:CLA:CGD	23:B:1022:CLA:CAA	2.68	0.47
3:C:295:THR:O	3:C:297:TYR:N	2.47	0.47
4:D:68:LEU:CD2	5:E:44:TYR:HE1	2.26	0.47
4:D:89:LEU:CD2	4:D:89:LEU:N	2.75	0.47
4:D:139:ARG:HG3	4:D:139:ARG:NH1	2.29	0.47
6:F:37:ILE:HA	6:F:40:MET:CE	2.24	0.47
7:H:13:PRO:O	7:H:15:ASN:N	2.47	0.47
7:H:38:PHE:CZ	7:H:42:LEU:HG	2.49	0.47
13:O:71:LEU:HD12	13:O:71:LEU:N	2.29	0.47
13:O:136:MET:HG3	13:O:137:ALA:H	1.78	0.47
14:T:16:LEU:O	14:T:16:LEU:HD13	2.14	0.47
15:U:109:LEU:C	15:U:111:HIS:H	2.23	0.47
20:Z:22:GLY:O	20:Z:24:PRO:N	2.47	0.47
20:Z:61:VAL:HG23	20:Z:62:VAL:N	2.14	0.47
1:a:5323:ARG:HG3	1:a:5323:ARG:NH1	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:a:6039:PHO:H93	4:d:5118:GLY:HA3	1.96	0.47
24:a:6039:PHO:HBA2	24:a:6039:PHO:H3A	1.53	0.47
2:b:5027:VAL:O	23:b:6013:CLA:HMD3	2.13	0.47
2:b:5088:TRP:HA	2:b:5088:TRP:HE3	1.79	0.47
2:b:5206:GLY:HA3	23:b:6013:CLA:H191	1.96	0.47
2:b:5227:ARG:HG3	2:b:5227:ARG:O	2.15	0.47
2:b:5312:ILE:HD11	2:b:5318:LYS:HG3	1.95	0.47
2:b:5394:VAL:C	2:b:5395:THR:CG2	2.87	0.47
23:b:6014:CLA:H8	23:b:6014:CLA:H51	1.55	0.47
3:c:5272:LEU:O	3:c:5276:LEU:CB	2.60	0.47
3:c:5431:PHE:O	3:c:5432:VAL:C	2.55	0.47
23:c:6033:CLA:C9	23:c:6033:CLA:C5	2.91	0.47
12:m:5033:GLN:O	12:m:5034:LYS:C	2.57	0.47
13:o:5184:ASP:HB2	13:o:5185:PRO:CD	2.33	0.47
15:u:5055:ILE:O	15:u:5113:THR:N	2.42	0.47
15:u:5085:TYR:O	15:u:5114:VAL:HG11	2.14	0.47
16:v:5105:PRO:HG2	16:v:5115:ALA:CA	2.43	0.47
18:y:5011:GLY:C	18:y:5013:ALA:N	2.72	0.47
20:z:5001:MET:HB2	20:z:5004:LEU:CD1	2.43	0.47
20:z:5062:VAL:O	20:z:5062:VAL:HG13	2.15	0.47
1:A:28:LEU:HA	4:D:255:GLN:HA	1.96	0.47
1:A:116:ILE:CG2	1:A:117:PHE:N	2.76	0.47
23:A:1006:CLA:CBA	30:C:1057:DGD:CFB	2.92	0.47
2:B:27:THR:O	2:B:107:LEU:CD1	2.62	0.47
2:B:108:PHE:CD2	2:B:109:LEU:HD23	2.49	0.47
2:B:191:ASN:ND2	2:B:192:PRO:HD2	2.28	0.47
2:B:222:PRO:HG2	2:B:225:LEU:CD1	2.31	0.47
2:B:272:ARG:HD2	2:B:273:TYR:CE1	2.49	0.47
3:C:45:LEU:HD13	3:C:139:THR:HG23	1.96	0.47
3:C:63:TRP:HB2	23:C:1034:CLA:O2D	2.14	0.47
3:C:114:VAL:HG12	3:C:118:HIS:HD2	1.78	0.47
3:C:236:GLY:HA3	26:C:1054:BCR:H392	1.96	0.47
3:C:248:GLY:C	3:C:252:ILE:HD12	2.39	0.47
3:C:263:ALA:H	8:I:28:PRO:CG	2.22	0.47
3:C:275:SER:HB3	23:C:1033:CLA:CED	2.45	0.47
3:C:327:ASN:HB3	13:O:125:ASP:OD1	2.13	0.47
3:C:466:VAL:CG2	4:D:248:THR:HG22	2.45	0.47
23:C:1032:CLA:H141	23:C:1032:CLA:H162	1.71	0.47
23:C:1034:CLA:C4D	23:C:1034:CLA:H12	2.43	0.47
4:D:76:VAL:CG1	4:D:77:ALA:N	2.77	0.47
26:D:1050:BCR:H14C	6:F:33:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:I:14:PHE:O	8:I:18:LEU:HG	2.15	0.47
11:L:26:VAL:CG1	11:L:27:LEU:N	2.77	0.47
12:M:4:ASN:O	12:M:6:LEU:N	2.47	0.47
15:U:72:TYR:CD2	15:U:73:PRO:HD3	2.49	0.47
20:Z:51:VAL:O	20:Z:55:GLY:N	2.47	0.47
1:a:5043:ALA:HA	26:a:6044:BCR:C16	2.44	0.47
1:a:5139:MET:HG3	1:a:5139:MET:O	2.13	0.47
1:a:5150:PRO:O	23:a:6003:CLA:H62	2.13	0.47
23:a:6007:CLA:HAC2	26:a:6044:BCR:H351	1.96	0.47
2:b:5049:LEU:O	2:b:5334:ALA:HB3	2.15	0.47
2:b:5054:ARG:NH2	2:b:5332:GLY:O	2.47	0.47
2:b:5065:ARG:O	2:b:5163:MET:HA	2.13	0.47
2:b:5397:SER:OG	2:b:5407:THR:HG23	2.13	0.47
3:c:5056:HIS:O	3:c:5059:LEU:N	2.47	0.47
3:c:5061:VAL:HG22	23:c:6027:CLA:OBD	2.14	0.47
3:c:5305:THR:HG23	3:c:5307:PRO:HD2	1.96	0.47
3:c:5451:ALA:HA	3:c:5456:GLU:HG2	1.95	0.47
23:c:6029:CLA:HBA1	8:i:5023:PHE:CZ	2.49	0.47
4:d:5196:PHE:HD1	4:d:5196:PHE:N	2.11	0.47
4:d:5268:HIS:O	4:d:5271:MET:HB2	2.14	0.47
26:h:6049:BCR:H311	26:h:6049:BCR:C8	2.44	0.47
1:A:135:TYR:C	1:A:137:LEU:N	2.72	0.47
1:A:179:THR:HG22	1:A:183:MET:SD	2.53	0.47
1:A:246:TYR:HE1	4:D:264:LYS:NZ	2.12	0.47
23:A:1003:CLA:H161	24:A:1038:PHO:H92	1.85	0.47
23:A:1007:CLA:H11	8:I:9:TYR:CE2	2.50	0.47
24:A:1039:PHO:H203	24:A:1039:PHO:H162	1.58	0.47
2:B:233:ASN:C	2:B:235:GLU:N	2.71	0.47
2:B:338:GLN:OE1	2:B:338:GLN:HA	2.14	0.47
2:B:402:TYR:N	2:B:402:TYR:CD2	2.82	0.47
2:B:450:TRP:CH2	23:B:1015:CLA:H2	2.50	0.47
23:B:1022:CLA:HMB1	26:B:1045:BCR:H401	1.96	0.47
3:C:33:PHE:N	3:C:33:PHE:CD2	2.77	0.47
3:C:75:PHE:CE2	3:C:105:VAL:CG1	2.95	0.47
3:C:295:THR:C	3:C:297:TYR:N	2.72	0.47
3:C:346:THR:CG2	3:C:348:GLU:OE1	2.59	0.47
3:C:450:ALA:HA	3:C:453:ALA:HB3	1.96	0.47
23:C:1034:CLA:H12	23:C:1034:CLA:CHA	2.44	0.47
4:D:175:VAL:O	4:D:177:ALA:N	2.47	0.47
4:D:252:PHE:O	4:D:256:ILE:HG22	2.14	0.47
4:D:261:PHE:CE2	4:D:267:LEU:CA	2.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:71:GLU:O	5:E:72:ALA:C	2.57	0.47
31:E:1040:HEM:NC	6:F:24:HIS:HE1	2.10	0.47
10:K:11:LEU:O	10:K:12:PRO:C	2.56	0.47
11:L:28:ALA:O	11:L:29:LEU:C	2.58	0.47
13:O:37:VAL:O	13:O:37:VAL:CG1	2.62	0.47
13:O:167:ASP:HA	13:O:225:LEU:O	2.14	0.47
1:a:5126:TYR:O	1:a:5127:MET:C	2.57	0.47
1:a:5326:LEU:O	1:a:5327:GLY:C	2.57	0.47
2:b:5122:ASP:OD1	2:b:5123:PRO:HD2	2.14	0.47
2:b:5220:GLN:HB2	2:b:5224:LYS:NZ	2.29	0.47
2:b:5254:TRP:CH2	4:d:5291:LEU:HG	2.48	0.47
2:b:5283:ARG:HG2	2:b:5283:ARG:NH1	2.28	0.47
23:b:6016:CLA:C5	23:b:6016:CLA:H92	2.43	0.47
3:c:5054:VAL:HG13	23:c:6036:CLA:HED1	1.96	0.47
3:c:5177:ALA:O	3:c:5181:PHE:N	2.48	0.47
3:c:5248:GLY:C	3:c:5250:TRP:N	2.72	0.47
3:c:5261:ARG:CZ	3:c:5261:ARG:N	2.77	0.47
3:c:5275:SER:HB3	23:c:6033:CLA:HED1	1.96	0.47
3:c:5472:LEU:O	3:c:5473:ASP:CB	2.61	0.47
23:c:6026:CLA:HBA1	23:c:6027:CLA:CMC	2.44	0.47
4:d:5155:SER:HA	4:d:5159:ILE:CG1	2.43	0.47
4:d:5186:GLN:OE1	4:d:5186:GLN:HA	2.10	0.47
4:d:5188:PHE:HZ	4:d:5329:MET:HE2	1.78	0.47
4:d:5261:PHE:CE2	4:d:5267:LEU:CA	2.98	0.47
5:e:5072:ALA:O	5:e:5076:VAL:HG23	2.14	0.47
6:f:5026:LEU:HD22	6:f:5027:ALA:N	2.30	0.47
10:k:5018:PHE:HZ	20:z:5009:LEU:HD11	1.78	0.47
16:v:5034:LEU:O	16:v:5036:VAL:HG13	2.13	0.47
16:v:5102:MET:HE2	16:v:5138:LEU:HD22	1.96	0.47
20:z:5048:ILE:O	20:z:5051:VAL:HG12	2.14	0.47
1:A:48:PHE:N	1:A:115:ILE:HD11	2.29	0.47
1:A:257:ARG:C	4:D:132:ILE:HD13	2.40	0.47
2:B:45:PHE:O	2:B:47:PRO:CD	2.59	0.47
2:B:121:GLU:C	2:B:123:PHE:N	2.67	0.47
2:B:210:ILE:O	2:B:211:ILE:C	2.57	0.47
2:B:237:VAL:HG22	23:B:1020:CLA:HMD1	1.95	0.47
2:B:447:PRO:HA	2:B:450:TRP:HB2	1.96	0.47
23:B:1022:CLA:H11	23:B:1022:CLA:H61	1.95	0.47
3:C:335:THR:OG1	3:C:337:LEU:HB2	2.14	0.47
23:C:1028:CLA:C5	30:C:1056:DGD:HA52	2.44	0.47
4:D:141:TYR:O	4:D:144:ILE:HG22	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:236:ASN:CB	4:D:237:PRO:HA	2.37	0.47
4:D:324:GLY:O	4:D:326:ARG:N	2.46	0.47
5:E:19:TYR:CD1	5:E:20:TRP:CD1	2.95	0.47
5:E:51:ARG:C	5:E:53:ASP:H	2.22	0.47
6:F:18:VAL:O	6:F:20:TRP:N	2.47	0.47
13:O:57:PRO:HA	13:O:161:SER:OG	2.14	0.47
16:V:86:ALA:N	16:V:93:ASP:HB3	2.29	0.47
17:X:34:PHE:O	17:X:38:ILE:CD1	2.63	0.47
1:a:5035:VAL:C	1:a:5036:ILE:HD12	2.40	0.47
1:a:5149:ALA:HB3	1:a:5150:PRO:HD3	1.96	0.47
1:a:5273:PHE:CZ	4:d:5222:LEU:CD2	2.98	0.47
1:a:5326:LEU:O	1:a:5330:VAL:HG13	2.13	0.47
1:a:5341:LEU:HD11	3:c:5396:MET:HE3	1.96	0.47
2:b:5039:LEU:C	2:b:5041:THR:N	2.72	0.47
2:b:5217:ARG:HD3	7:h:5022:ALA:HB2	1.96	0.47
2:b:5274:SER:C	2:b:5276:TYR:N	2.71	0.47
23:b:6022:CLA:H61	23:b:6022:CLA:H11	1.95	0.47
3:c:5113:VAL:O	3:c:5117:VAL:CG2	2.62	0.47
3:c:5259:TRP:CE3	3:c:5260:ALA:HB2	2.49	0.47
3:c:5319:ILE:O	3:c:5320:ARG:C	2.58	0.47
23:c:6026:CLA:C4	23:c:6026:CLA:H71	2.44	0.47
23:c:6032:CLA:C17	23:c:6034:CLA:C19	2.91	0.47
23:c:6033:CLA:C9	23:c:6033:CLA:H51	2.29	0.47
4:d:5122:LEU:HD21	23:d:6004:CLA:H92	1.96	0.47
29:d:6061:MGE:H202	11:l:5023:LEU:HB2	1.96	0.47
5:e:5035:TRP:CD1	5:e:5039:SER:HB2	2.49	0.47
5:e:5059:GLU:O	5:e:5060:GLN:C	2.57	0.47
6:f:5041:GLN:HG3	9:j:5027:LEU:CD2	2.43	0.47
7:h:5040:VAL:HG13	7:h:5041:PHE:N	2.28	0.47
11:l:5004:ASN:OD1	11:l:5005:PRO:HD2	2.15	0.47
13:o:5215:ARG:HG2	13:o:5215:ARG:NH1	2.29	0.47
14:t:5029:ILE:HD13	14:t:5029:ILE:N	2.26	0.47
1:A:107:TYR:HB2	13:O:97:VAL:CG2	2.43	0.47
1:A:279:ARG:CZ	1:A:279:ARG:CB	2.91	0.47
2:B:25:MET:C	2:B:27:THR:N	2.69	0.47
2:B:443:PHE:O	2:B:443:PHE:CD2	2.68	0.47
2:B:465:GLY:C	2:B:467:ILE:H	2.14	0.47
23:B:1010:CLA:HMD3	23:B:1011:CLA:H102	1.94	0.47
23:B:1013:CLA:H72	23:B:1020:CLA:H172	1.97	0.47
23:B:1019:CLA:C9	29:L:1061:MGE:C8A	2.83	0.47
23:C:1029:CLA:H191	23:C:1029:CLA:H71	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:91:LEU:HG	4:D:93:TRP:CZ2	2.49	0.47
4:D:258:GLY:C	4:D:259:ILE:HD13	2.38	0.47
4:D:267:LEU:CD2	4:D:268:HIS:CD2	2.97	0.47
23:D:1005:CLA:H43	25:D:1042:PQ9:H212	1.96	0.47
13:O:169:LYS:NZ	13:O:169:LYS:CB	2.73	0.47
14:T:18:PHE:HB2	26:T:6046:BCR:C9	2.44	0.47
1:a:5187:GLN:OE1	1:a:5193:LEU:HB2	2.14	0.47
1:a:5199:GLN:CG	1:a:5200:LEU:N	2.78	0.47
1:a:5237:TYR:C	1:a:5237:TYR:CD2	2.92	0.47
23:a:6003:CLA:HMD2	23:d:6005:CLA:HBC1	1.97	0.47
2:b:5036:LEU:O	2:b:5039:LEU:N	2.48	0.47
2:b:5042:PHE:HE2	2:b:5052:MET:HA	1.78	0.47
2:b:5087:PHE:O	2:b:5092:GLY:HA3	2.15	0.47
2:b:5248:VAL:HG11	23:b:6010:CLA:HED2	1.96	0.47
2:b:5256:GLY:O	2:b:5257:SER:HB2	2.15	0.47
23:b:6011:CLA:CGA	23:b:6011:CLA:C3A	2.92	0.47
23:b:6011:CLA:H171	23:b:6016:CLA:HBC3	1.95	0.47
23:b:6014:CLA:O2D	23:b:6014:CLA:HAA2	2.12	0.47
23:b:6016:CLA:CGA	23:b:6016:CLA:NA	2.78	0.47
3:c:5113:VAL:HG22	3:c:5114:VAL:N	2.28	0.47
23:c:6037:CLA:CGD	23:c:6037:CLA:HBA2	2.41	0.47
30:c:6057:DGD:HG31	9:j:5033:TYR:CE2	2.50	0.47
4:d:5046:GLY:C	26:d:6050:BCR:H10C	2.39	0.47
5:e:5043:ALA:O	5:e:5046:VAL:HB	2.15	0.47
7:h:5033:VAL:O	7:h:5037:LEU:HD13	2.15	0.47
13:o:5058:ILE:HG12	13:o:5160:THR:O	2.15	0.47
13:o:5234:THR:CG2	13:o:5236:GLU:HG3	2.45	0.47
20:z:5033:TRP:O	20:z:5037:LYS:HB3	2.14	0.47
1:A:13:LEU:HD22	1:A:13:LEU:N	2.28	0.47
1:A:36:ILE:CD1	8:I:19:PHE:HB2	2.44	0.47
1:A:93:PHE:O	1:A:95:PRO:HD3	2.15	0.47
1:A:99:ALA:C	1:A:101:SER:H	2.22	0.47
1:A:140:ARG:HH21	27:A:1063:LHG:HC11	1.80	0.47
1:A:141:PRO:HG3	3:C:447:ARG:CA	2.40	0.47
1:A:258:LEU:O	4:D:128:ARG:NH1	2.44	0.47
1:A:304:HIS:CD2	1:A:313:VAL:HG21	2.49	0.47
27:A:1063:LHG:H292	23:C:1032:CLA:C6	2.44	0.47
2:B:18:ARG:HG2	2:B:115:TRP:CD1	2.49	0.47
2:B:30:VAL:HG12	23:B:1013:CLA:HMD3	1.97	0.47
2:B:46:ASP:OD2	2:B:48:SER:OG	2.32	0.47
2:B:66:MET:CG	23:B:1013:CLA:CED	2.90	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:143:LEU:CD1	2:B:209:GLY:O	2.63	0.47
2:B:158:LEU:HD12	2:B:199:VAL:HA	1.96	0.47
2:B:246:PHE:HB3	2:B:462:PHE:HB3	1.96	0.47
2:B:343:HIS:CE1	2:B:345:VAL:HG13	2.48	0.47
2:B:384:ARG:HH12	4:D:348:ARG:CZ	2.28	0.47
2:B:422:ARG:C	2:B:424:ALA:H	2.22	0.47
2:B:465:GLY:H	23:B:1019:CLA:HBC2	1.65	0.47
23:B:1014:CLA:O2D	23:B:1014:CLA:HAA2	2.12	0.47
23:B:1020:CLA:C14	23:B:1021:CLA:HAB	2.45	0.47
3:C:166:ILE:HD11	3:C:248:GLY:HA3	1.97	0.47
3:C:236:GLY:C	3:C:238:ILE:N	2.71	0.47
3:C:248:GLY:O	3:C:252:ILE:HB	2.14	0.47
3:C:443:TRP:CD1	3:C:444:HIS:CE1	3.02	0.47
23:C:1034:CLA:H3A	23:C:1034:CLA:HBA1	1.34	0.47
4:D:27:PHE:CD2	6:F:19:ARG:HG3	2.50	0.47
4:D:36:LEU:C	4:D:39:PRO:HD2	2.40	0.47
4:D:42:TYR:HD2	4:D:43:LEU:HD13	1.80	0.47
4:D:72:ASN:ND2	4:D:73:PHE:N	2.62	0.47
4:D:111:TRP:C	4:D:113:PHE:N	2.71	0.47
4:D:194:ASN:C	4:D:198:MET:HE2	2.39	0.47
4:D:201:VAL:HG11	23:D:1005:CLA:CAD	2.45	0.47
4:D:245:SER:C	4:D:247:VAL:H	2.22	0.47
9:J:30:TYR:C	9:J:32:ALA:N	2.73	0.47
11:L:18:TYR:CE2	14:T:20:ALA:HA	2.48	0.47
11:L:23:LEU:O	11:L:23:LEU:HD12	2.15	0.47
11:L:36:PHE:CD2	14:T:6:TYR:OH	2.56	0.47
29:L:1061:MGE:H3B1	29:L:1061:MGE:C7B	2.34	0.47
13:O:74:THR:OG1	13:O:263:GLY:HA2	2.15	0.47
13:O:108:GLN:O	13:O:124:GLU:N	2.46	0.47
13:O:145:LEU:HG	13:O:145:LEU:O	2.14	0.47
15:U:94:ILE:HA	15:U:95:PRO:HD3	1.75	0.47
16:V:75:ASN:HA	16:V:76:PRO:HD2	1.74	0.47
16:V:81:ARG:HG3	16:V:81:ARG:HH11	1.80	0.47
20:Z:52:LEU:C	20:Z:55:GLY:H	2.22	0.47
1:a:5140:ARG:NH2	27:a:6063:LHG:C1	2.78	0.47
1:a:5150:PRO:CA	23:a:6003:CLA:C4	2.84	0.47
1:a:5196:PRO:HA	1:a:5199:GLN:CG	2.44	0.47
1:a:5247:ASN:HB3	1:a:5250:ALA:CB	2.35	0.47
1:a:5269:ARG:CD	4:d:5231:THR:HG21	2.40	0.47
1:a:5309:ALA:HB3	16:v:5028:GLU:HG2	1.95	0.47
23:a:6006:CLA:H101	25:a:6043:PQ9:H441	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5014:GLY:HA2	2:b:5120:PHE:CE2	2.50	0.47
2:b:5034:MET:HE3	2:b:5038:GLU:OE2	2.14	0.47
2:b:5064:ALA:HA	2:b:5069:THR:HG22	1.97	0.47
2:b:5255:TYR:O	2:b:5256:GLY:C	2.55	0.47
2:b:5274:SER:O	2:b:5275:SER:HB2	2.15	0.47
2:b:5308:PHE:HA	2:b:5427:PHE:CZ	2.49	0.47
2:b:5312:ILE:O	2:b:5314:ASN:N	2.48	0.47
2:b:5320:GLY:CA	2:b:5323:ARG:HD3	2.44	0.47
2:b:5397:SER:HG	2:b:5407:THR:HG23	1.80	0.47
23:b:6019:CLA:H162	23:b:6021:CLA:H52	1.95	0.47
23:b:6020:CLA:H2	23:b:6023:CLA:CBA	2.26	0.47
23:b:6021:CLA:C17	23:b:6021:CLA:C14	2.88	0.47
3:c:5061:VAL:HA	23:c:6027:CLA:CMD	2.45	0.47
3:c:5118:HIS:O	3:c:5122:SER:N	2.43	0.47
3:c:5131:TYR:O	3:c:5132:HIS:C	2.57	0.47
3:c:5135:ARG:HB2	20:z:5027:TYR:CD1	2.50	0.47
3:c:5173:LEU:O	3:c:5174:LEU:C	2.58	0.47
3:c:5265:ILE:N	3:c:5274:TYR:OH	2.35	0.47
3:c:5343:ARG:HH11	3:c:5343:ARG:HG3	1.79	0.47
3:c:5414:ILE:CG1	3:c:5415:ASN:N	2.72	0.47
23:c:6031:CLA:CBA	23:c:6033:CLA:CED	2.93	0.47
23:c:6032:CLA:HAB	23:c:6034:CLA:HMC1	1.96	0.47
4:d:5048:TRP:CE3	4:d:5049:LEU:HG	2.50	0.47
4:d:5093:TRP:CE3	4:d:5093:TRP:N	2.81	0.47
4:d:5093:TRP:CD1	17:x:5018:GLY:O	2.68	0.47
4:d:5191:TRP:NE1	4:d:5197:HIS:HD2	2.12	0.47
4:d:5199:MET:HA	4:d:5202:ALA:HB3	1.97	0.47
4:d:5263:ASN:ND2	4:d:5265:ARG:HB2	2.29	0.47
5:e:5008:ARG:HB3	5:e:5009:PRO:HD2	1.95	0.47
5:e:5019:TYR:O	5:e:5021:VAL:N	2.48	0.47
5:e:5035:TRP:O	5:e:5035:TRP:CD1	2.67	0.47
5:e:5038:VAL:HG21	6:f:5036:ALA:C	2.40	0.47
6:f:5023:VAL:O	6:f:5027:ALA:CB	2.63	0.47
7:h:5058:VAL:O	7:h:5058:VAL:HG12	2.14	0.47
10:k:5013:GLU:O	10:k:5016:ALA:N	2.32	0.47
10:k:5039:VAL:HG13	18:y:5018:ILE:HD11	1.97	0.47
26:k:6051:BCR:C1	26:k:6052:BCR:H10C	2.45	0.47
12:m:5014:PHE:O	12:m:5014:PHE:CG	2.67	0.47
13:o:5069:LEU:HD12	13:o:5070:CYS:N	2.30	0.47
13:o:5109:GLY:O	13:o:5110:GLU:O	2.33	0.47
13:o:5210:ARG:O	13:o:5252:GLY:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:u:5056:ASP:C	15:u:5058:ASN:N	2.71	0.47
15:u:5091:VAL:O	15:u:5094:ILE:HG13	2.14	0.47
16:v:5067:HIS:NE2	31:v:6041:HEM:C4C	2.82	0.47
18:y:5011:GLY:O	18:y:5015:PRO:HD2	2.15	0.47
26:z:6053:BCR:H403	26:z:6053:BCR:H271	1.96	0.47
1:A:14:TRP:NE1	1:A:18:CYS:HG	2.12	0.47
1:A:50:ILE:O	1:A:53:ILE:HB	2.14	0.47
1:A:109:GLY:C	1:A:111:PRO:HD2	2.40	0.47
26:A:1044:BCR:H403	26:A:1044:BCR:C22	2.40	0.47
27:A:1063:LHG:H202	27:A:1063:LHG:H171	1.55	0.47
2:B:463:PHE:CD2	30:H:1058:DGD:HAV1	2.50	0.47
3:C:383:ASP:O	3:C:385:GLN:N	2.47	0.47
23:C:1034:CLA:H102	23:C:1034:CLA:O1A	2.14	0.47
13:O:109:GLY:HA3	13:O:123:GLU:HA	1.97	0.47
14:T:18:PHE:CD1	26:T:6046:BCR:C34	2.85	0.47
15:U:127:ARG:HG2	15:U:127:ARG:NH1	2.28	0.47
20:Z:49:ALA:O	20:Z:52:LEU:N	2.48	0.47
1:a:5030:VAL:O	1:a:5030:VAL:HG12	2.15	0.47
1:a:5057:PRO:CA	1:a:5068:SER:HB2	2.31	0.47
1:a:5135:TYR:CE1	3:c:5449:ARG:HD2	2.50	0.47
1:a:5207:GLY:C	1:a:5209:ALA:N	2.70	0.47
1:a:5215:HIS:CD2	1:a:5275:LEU:HD11	2.50	0.47
1:a:5293:MET:HG2	1:a:5298:ASN:HA	1.97	0.47
1:a:5344:ALA:CB	3:c:5357:ARG:HH22	2.28	0.47
2:b:5330:GLY:HA2	2:b:5441:ARG:HE	1.80	0.47
23:b:6009:CLA:CAA	23:b:6009:CLA:CED	2.91	0.47
23:b:6011:CLA:C2D	23:b:6013:CLA:C4	2.92	0.47
3:c:5254:THR:CG2	3:c:5255:THR:N	2.77	0.47
3:c:5265:ILE:O	3:c:5267:SER:N	2.48	0.47
3:c:5298:PRO:CG	3:c:5301:PHE:CD2	2.97	0.47
4:d:5128:ARG:NH1	4:d:5128:ARG:CG	2.75	0.47
7:h:5039:LEU:HD22	7:h:5039:LEU:HA	1.76	0.47
13:o:5056:TYR:O	13:o:5161:SER:HA	2.14	0.47
13:o:5149:LYS:O	13:o:5150:ASN:CB	2.63	0.47
13:o:5223:ILE:CG1	13:o:5224:SER:H	2.23	0.47
16:v:5152:LEU:O	16:v:5154:ASP:N	2.48	0.47
1:A:31:GLY:HA3	1:A:132:GLU:CD	2.40	0.47
1:A:181:ASN:O	1:A:182:PHE:C	2.58	0.47
1:A:197:PHE:C	1:A:199:GLN:N	2.72	0.47
1:A:246:TYR:HE1	4:D:264:LYS:HZ2	1.63	0.47
1:A:278:TRP:CE3	1:A:278:TRP:CA	2.84	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:333:GLU:OE1	3:C:354:GLU:OE2	2.32	0.47
2:B:83:GLU:HG3	2:B:83:GLU:H	1.50	0.47
2:B:141:ILE:HG23	2:B:217:ILE:HD13	1.97	0.47
2:B:384:ARG:HA	13:O:192:SER:CB	2.45	0.47
2:B:468:TRP:HD1	2:B:469:HIS:ND1	2.13	0.47
2:B:478:VAL:HG12	2:B:479:PHE:N	2.30	0.47
23:B:1016:CLA:CGA	23:B:1016:CLA:NA	2.78	0.47
3:C:62:PHE:HB2	3:C:122:SER:OG	2.15	0.47
3:C:374:GLY:HA2	13:O:33:TYR:CE1	2.50	0.47
23:C:1025:CLA:HED3	23:C:1025:CLA:OBD	2.15	0.47
23:C:1031:CLA:CBA	23:C:1033:CLA:CED	2.93	0.47
4:D:102:THR:HG22	4:D:103:ARG:N	2.30	0.47
4:D:257:PHE:O	4:D:257:PHE:CD1	2.68	0.47
4:D:302:GLU:CG	13:O:199:ALA:HB1	2.44	0.47
23:D:1005:CLA:H151	23:D:1005:CLA:H203	1.70	0.47
5:E:35:TRP:C	5:E:35:TRP:CD1	2.92	0.47
7:H:39:LEU:O	7:H:39:LEU:HD13	2.15	0.47
10:K:18:PHE:C	10:K:20:PRO:CD	2.87	0.47
13:O:184:ASP:OD1	13:O:188:ARG:O	2.33	0.47
15:U:80:VAL:C	15:U:82:ASN:N	2.68	0.47
16:V:52:TYR:O	16:V:55:GLY:N	2.48	0.47
16:V:98:LEU:HD12	16:V:98:LEU:N	2.30	0.47
20:Z:31:GLN:O	20:Z:32:ASP:O	2.33	0.47
1:a:5037:MET:CB	1:a:5125:CYS:HB3	2.42	0.47
1:a:5076:ASN:HA	14:t:5006:TYR:HE2	1.78	0.47
1:a:5147:TYR:O	1:a:5147:TYR:CG	2.67	0.47
1:a:5215:HIS:NE2	1:a:5272:HIS:HE1	1.88	0.47
1:a:5223:LEU:HG	4:d:5265:ARG:NE	2.30	0.47
1:a:5322:ASN:HD22	1:a:5322:ASN:HA	1.53	0.47
2:b:5109:CYS:O	2:b:5113:VAL:HG22	2.15	0.47
2:b:5166:SER:CB	2:b:5173:GLY:HA2	2.45	0.47
2:b:5309:TYR:C	2:b:5311:TYR:H	2.23	0.47
2:b:5335:GLN:HB2	2:b:5428:GLU:O	2.15	0.47
2:b:5454:VAL:HG11	4:d:5284:ILE:HD13	1.97	0.47
23:b:6011:CLA:C19	23:b:6017:CLA:C15	2.85	0.47
23:b:6011:CLA:CHD	23:b:6013:CLA:H51	2.44	0.47
3:c:5055:ALA:HB1	26:k:6052:BCR:C37	2.40	0.47
3:c:5129:GLY:C	3:c:5131:TYR:N	2.72	0.47
4:d:5263:ASN:OD1	4:d:5266:TRP:N	2.47	0.47
10:k:5034:ALA:O	10:k:5038:VAL:HG22	2.12	0.47
13:o:5216:PHE:CD1	13:o:5216:PHE:C	2.93	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5250:ASP:HB3	13:o:5253:ALA:CB	2.45	0.47
15:u:5057:LEU:HD22	15:u:5079:ILE:HG23	1.96	0.47
16:v:5083:GLU:N	16:v:5083:GLU:CD	2.73	0.47
1:A:50:ILE:HB	26:A:1044:BCR:C39	2.44	0.47
1:A:74:GLY:O	1:A:75:ASN:C	2.58	0.47
1:A:92:HIS:CD2	3:C:220:GLY:N	2.82	0.47
1:A:98:GLU:O	1:A:99:ALA:C	2.58	0.47
1:A:174:LEU:H	1:A:174:LEU:CD2	2.20	0.47
2:B:53:ASN:ND2	2:B:53:ASN:O	2.48	0.47
2:B:135:LEU:HD13	2:B:136:PRO:HD3	1.96	0.47
2:B:266:GLU:HG3	2:B:312:TYR:OH	2.15	0.47
2:B:450:TRP:CZ3	23:B:1015:CLA:H2	2.49	0.47
23:B:1011:CLA:CHD	23:B:1013:CLA:H51	2.44	0.47
3:C:318:LEU:HD21	3:C:328:VAL:HG11	1.94	0.47
23:C:1028:CLA:HHD	23:C:1028:CLA:CBC	2.36	0.47
7:H:21:VAL:HG12	7:H:22:ALA:H	1.79	0.47
11:L:30:LEU:CD2	11:L:31:PHE:HD1	2.22	0.47
13:O:65:ARG:NH1	13:O:66:ILE:O	2.48	0.47
13:O:116:ASP:OD2	13:O:157:PRO:O	2.33	0.47
13:O:208:LEU:O	13:O:210:ARG:N	2.48	0.47
13:O:239:GLY:O	13:O:264:VAL:HA	2.15	0.47
16:V:45:ILE:HG21	16:V:95:ILE:HD12	1.97	0.47
16:V:64:ALA:O	16:V:66:CYS:N	2.47	0.47
16:V:88:ALA:HA	16:V:108:TYR:CE1	2.49	0.47
1:a:5119:PHE:CZ	23:a:6003:CLA:H91	2.50	0.47
23:b:6010:CLA:HAA2	23:b:6010:CLA:CGD	2.43	0.47
23:b:6020:CLA:C1	23:b:6023:CLA:CED	2.63	0.47
3:c:5060:ILE:HG23	3:c:5061:VAL:N	2.29	0.47
3:c:5110:PRO:O	3:c:5113:VAL:HG13	2.15	0.47
3:c:5298:PRO:HG2	3:c:5301:PHE:HB2	1.96	0.47
23:c:6034:CLA:CED	10:k:5029:PRO:HB2	2.39	0.47
4:d:5080:THR:HG22	4:d:5111:TRP:NE1	2.30	0.47
4:d:5146:PHE:CD2	4:d:5150:ILE:HG12	2.50	0.47
4:d:5218:VAL:HA	4:d:5221:THR:HG22	1.97	0.47
23:d:6005:CLA:H161	29:d:6062:MGE:CFB	2.45	0.47
23:d:6008:CLA:H2	17:x:5023:LEU:HD12	1.97	0.47
25:d:6042:PQ9:H442	11:l:5026:VAL:HG22	1.96	0.47
7:h:5006:TRP:HE1	7:h:5010:ILE:HD11	1.78	0.47
13:o:5041:LEU:C	13:o:5041:LEU:HD12	2.39	0.47
13:o:5145:LEU:HD13	13:o:5177:TYR:HA	1.97	0.47
13:o:5187:GLY:O	13:o:5188:ARG:O	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:v:6041:HEM:HHD	31:v:6041:HEM:CBC	2.45	0.47
17:x:5042:GLN:HA	17:x:5042:GLN:NE2	2.29	0.47
1:A:97:TRP:O	8:I:1:MET:HG2	2.15	0.46
1:A:135:TYR:CE1	3:C:449:ARG:HD2	2.50	0.46
23:A:1003:CLA:H152	23:A:1003:CLA:H18	1.74	0.46
2:B:98:LEU:O	2:B:101:ILE:HB	2.15	0.46
2:B:273:TYR:O	2:B:277:SER:HB2	2.14	0.46
23:B:1010:CLA:HAA2	23:B:1010:CLA:CGD	2.43	0.46
3:C:222:GLY:H	3:C:226:SER:HB3	1.80	0.46
3:C:269:GLU:OE2	3:C:447:ARG:HD2	2.16	0.46
3:C:354:GLU:C	3:C:356:MET:H	2.23	0.46
4:D:191:TRP:HZ3	4:D:194:ASN:ND2	2.14	0.46
4:D:328:TRP:NE1	4:D:346:LEU:HD11	2.30	0.46
4:D:330:ALA:O	4:D:334:GLN:N	2.42	0.46
5:E:38:VAL:CB	6:F:39:ALA:HB3	2.45	0.46
26:H:1049:BCR:C8	26:H:1049:BCR:H311	2.45	0.46
8:I:16:VAL:O	8:I:20:VAL:HG23	2.14	0.46
1:a:5040:THR:CG2	1:a:5118:HIS:O	2.63	0.46
1:a:5206:PHE:O	23:a:6006:CLA:H43	2.15	0.46
1:a:5225:ARG:O	1:a:5225:ARG:HG2	2.15	0.46
3:c:5103:GLY:HA2	3:c:5186:TYR:CE1	2.50	0.46
3:c:5157:MET:HB3	23:c:6031:CLA:HBC1	1.96	0.46
3:c:5297:TYR:HB2	3:c:5423:ARG:HH22	1.79	0.46
3:c:5314:ALA:O	3:c:5315:MET:C	2.58	0.46
23:c:6030:CLA:HMB3	23:c:6031:CLA:CHB	2.45	0.46
4:d:5028:VAL:O	4:d:5028:VAL:CG1	2.60	0.46
4:d:5123:ILE:C	4:d:5127:LEU:HD23	2.39	0.46
10:k:5026:PRO:C	10:k:5028:ILE:N	2.73	0.46
10:k:5031:LEU:N	10:k:5031:LEU:CD2	2.78	0.46
10:k:5031:LEU:O	26:k:6051:BCR:H14C	2.15	0.46
11:l:5032:SER:O	11:l:5035:PHE:HB2	2.15	0.46
16:v:5098:LEU:HD12	16:v:5098:LEU:N	2.28	0.46
1:A:95:PRO:HG2	1:A:98:GLU:CG	2.43	0.46
1:A:96:ILE:HA	1:A:105:TRP:NE1	2.29	0.46
1:A:147:TYR:HA	24:A:1038:PHO:HMD3	1.97	0.46
1:A:184:ILE:CB	4:D:321:LEU:HD13	2.45	0.46
1:A:226:GLU:HG3	1:A:236:GLY:HA2	1.97	0.46
1:A:334:ARG:O	1:A:336:ALA:N	2.48	0.46
23:A:1007:CLA:HAC2	26:A:1044:BCR:H351	1.96	0.46
2:B:369:ILE:HD13	4:D:340:VAL:O	2.14	0.46
23:B:1018:CLA:O2D	23:B:1018:CLA:H2A	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:B:1060:MGE:H3A2	29:B:1060:MGE:CGB	2.39	0.46
3:C:39:ASN:HA	23:C:1035:CLA:CED	2.44	0.46
23:C:1032:CLA:H152	23:C:1032:CLA:C19	2.39	0.46
4:D:129:GLN:HE21	4:D:142:ASN:CG	2.21	0.46
4:D:196:PHE:CE2	4:D:284:ILE:HB	2.49	0.46
4:D:213:ILE:O	4:D:213:ILE:HD12	2.15	0.46
4:D:253:TRP:N	4:D:253:TRP:CD1	2.82	0.46
25:D:1042:PQ9:H361	29:L:1061:MGE:H231	1.96	0.46
26:D:1050:BCR:C19	29:J:1059:MGE:H5A1	2.46	0.46
9:J:23:VAL:CG1	9:J:24:ILE:N	2.78	0.46
11:L:25:LEU:HD11	14:T:12:CYS:HB3	1.98	0.46
12:M:25:LEU:HA	12:M:25:LEU:HD23	1.72	0.46
13:O:70:CYS:HA	13:O:104:LEU:O	2.15	0.46
20:Z:59:PHE:H	20:Z:59:PHE:HD1	1.62	0.46
1:a:5127:MET:HB2	1:a:5147:TYR:HE1	1.80	0.46
1:a:5167:SER:C	1:a:5169:SER:N	2.70	0.46
1:a:5202:VAL:HG11	23:a:6006:CLA:C3D	2.44	0.46
1:a:5273:PHE:O	1:a:5276:ALA:HB3	2.16	0.46
1:a:5274:PHE:O	1:a:5275:LEU:C	2.58	0.46
1:a:5315:ASN:ND2	4:d:5332:GLN:OE1	2.48	0.46
1:a:5317:TRP:C	1:a:5319:ASP:N	2.73	0.46
27:a:6063:LHG:H202	27:a:6063:LHG:H171	1.55	0.46
2:b:5024:THR:OG1	23:b:6020:CLA:C1	2.63	0.46
2:b:5138:ILE:HG23	2:b:5214:ILE:CD1	2.45	0.46
2:b:5180:PRO:CB	2:b:5197:ALA:HB2	2.35	0.46
2:b:5354:ARG:HH22	4:d:5337:GLU:HG2	1.79	0.46
23:b:6020:CLA:C14	23:b:6021:CLA:HAB	2.45	0.46
23:c:6033:CLA:H143	23:c:6033:CLA:H111	1.60	0.46
4:d:5058:TRP:HE1	5:e:5064:PRO:CD	2.28	0.46
5:e:5014:ILE:HG13	5:e:5015:THR:N	2.30	0.46
12:m:5022:LEU:C	12:m:5024:ILE:N	2.73	0.46
15:u:5066:ILE:HG22	15:u:5066:ILE:O	2.14	0.46
18:y:5014:GLY:N	18:y:5015:PRO:CD	2.78	0.46
20:z:5039:LEU:O	20:z:5039:LEU:HG	2.15	0.46
1:A:113:GLN:O	1:A:116:ILE:N	2.48	0.46
1:A:116:ILE:CG2	1:A:117:PHE:H	2.27	0.46
1:A:117:PHE:HD2	1:A:117:PHE:N	2.12	0.46
1:A:140:ARG:C	4:D:220:ASN:ND2	2.69	0.46
1:A:155:PHE:HE1	30:C:1055:DGD:HAT2	1.80	0.46
1:A:286:ALA:HB1	23:A:1003:CLA:O1D	2.14	0.46
24:A:1038:PHO:C14	24:A:1038:PHO:C10	2.67	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:71:VAL:HG21	2:B:96:VAL:CG2	2.43	0.46
3:C:286:ALA:C	3:C:288:CYS:N	2.71	0.46
23:C:1025:CLA:H42	23:C:1025:CLA:CHB	2.45	0.46
23:C:1026:CLA:C4	23:C:1026:CLA:H71	2.45	0.46
23:C:1033:CLA:H143	23:C:1033:CLA:H111	1.60	0.46
4:D:190:ASN:HD21	4:D:193:LEU:CD2	2.29	0.46
4:D:235:PHE:O	4:D:236:ASN:CB	2.63	0.46
4:D:298:PHE:O	4:D:301:GLN:HB2	2.15	0.46
4:D:313:THR:O	4:D:314:PHE:C	2.57	0.46
5:E:21:VAL:O	5:E:25:ILE:HG13	2.15	0.46
5:E:68:ASP:HA	5:E:69:ARG:HE	1.79	0.46
10:K:19:ASP:OD2	10:K:20:PRO:HD3	2.15	0.46
12:M:33:GLN:O	12:M:34:LYS:C	2.58	0.46
20:Z:43:GLY:O	20:Z:47:TRP:N	2.35	0.46
23:a:6003:CLA:CHD	23:a:6003:CLA:CBC	2.91	0.46
2:b:5024:THR:CB	23:b:6020:CLA:H11	2.46	0.46
2:b:5132:LEU:C	2:b:5134:LYS:N	2.73	0.46
2:b:5323:ARG:NH2	2:b:5361:GLU:OE1	2.45	0.46
2:b:5462:GLY:CA	2:b:5465:TRP:H	2.22	0.46
2:b:5465:TRP:CD1	2:b:5466:HIS:ND1	2.78	0.46
2:b:5475:VAL:O	2:b:5477:SER:N	2.49	0.46
23:b:6015:CLA:H93	11:l:5031:PHE:HE2	1.80	0.46
23:b:6023:CLA:H161	23:b:6023:CLA:C11	2.43	0.46
29:b:6060:MGE:H3A2	29:b:6060:MGE:CGB	2.41	0.46
3:c:5103:GLY:HA2	3:c:5186:TYR:HE1	1.80	0.46
3:c:5167:VAL:HG12	23:c:6036:CLA:H52	1.98	0.46
3:c:5197:ARG:HG2	3:c:5198:VAL:H	1.80	0.46
3:c:5283:GLY:HA3	23:c:6026:CLA:HBC3	1.96	0.46
3:c:5315:MET:HE2	3:c:5365:TRP:HZ3	1.80	0.46
3:c:5354:GLU:C	3:c:5356:MET:N	2.74	0.46
3:c:5394:GLU:OE1	16:v:5127:PHE:HE2	1.98	0.46
23:c:6034:CLA:HED1	10:k:5029:PRO:CG	2.18	0.46
5:e:5032:ILE:HA	5:e:5035:TRP:HB3	1.96	0.46
13:o:5065:ARG:HE	13:o:5110:GLU:CA	2.24	0.46
13:o:5136:MET:HB2	13:o:5142:ILE:HD13	1.98	0.46
13:o:5149:LYS:O	13:o:5172:PHE:HB2	2.15	0.46
1:A:22:THR:HA	1:A:29:TYR:CE1	2.48	0.46
1:A:127:MET:HG3	23:C:1029:CLA:HMB1	1.97	0.46
2:B:28:ALA:O	2:B:104:SER:OG	2.22	0.46
2:B:257:TRP:CZ3	4:D:291:LEU:CD1	2.98	0.46
2:B:280:PHE:CZ	2:B:312:TYR:HD1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:297:THR:CG2	2:B:300:GLU:HG3	2.46	0.46
2:B:450:TRP:O	2:B:453:PHE:N	2.42	0.46
23:B:1009:CLA:CAA	23:B:1009:CLA:CED	2.91	0.46
23:B:1012:CLA:C10	23:B:1023:CLA:C1	2.90	0.46
23:B:1022:CLA:HMB3	23:B:1022:CLA:CBB	2.45	0.46
23:B:1023:CLA:H142	23:B:1023:CLA:H112	1.59	0.46
23:B:1024:CLA:H92	23:B:1024:CLA:H62	1.67	0.46
26:B:1047:BCR:C36	26:t:1046:BCR:C17	2.93	0.46
29:B:1060:MGE:O1B	29:B:1060:MGE:C1G	2.62	0.46
3:C:92:ILE:HD12	3:C:97:TRP:HB2	1.98	0.46
3:C:108:THR:HG21	10:K:10:LYS:HD2	1.96	0.46
3:C:404:LEU:HD12	30:C:1057:DGD:HA21	1.98	0.46
3:C:457:LYS:HB3	4:D:224:GLN:HG3	1.96	0.46
4:D:108:GLY:O	4:D:109:GLY:C	2.57	0.46
5:E:69:ARG:HE	5:E:69:ARG:N	2.13	0.46
16:V:144:HIS:O	16:V:148:GLU:HG2	2.15	0.46
18:Y:26:ALA:O	18:Y:30:ILE:HG22	2.15	0.46
18:Y:28:ILE:CG1	18:Y:29:GLY:N	2.78	0.46
20:Z:59:PHE:CD1	20:Z:59:PHE:N	2.82	0.46
1:a:5091:LEU:HA	1:a:5168:PHE:CE1	2.49	0.46
23:a:6003:CLA:C3B	23:a:6006:CLA:HMD2	2.43	0.46
23:a:6006:CLA:HED2	23:a:6006:CLA:CAA	2.45	0.46
2:b:5083:ILE:O	2:b:5084:ASP:HB3	2.14	0.46
2:b:5132:LEU:HD11	2:b:5229:GLY:HA2	1.96	0.46
2:b:5164:TRP:CD1	2:b:5164:TRP:C	2.94	0.46
2:b:5218:PRO:HA	2:b:5219:PRO:HD2	1.86	0.46
2:b:5222:LEU:O	2:b:5228:MET:HE3	2.16	0.46
2:b:5233:THR:HG23	2:b:5234:VAL:N	2.31	0.46
2:b:5328:ASN:CB	2:b:5434:LEU:HD21	2.39	0.46
2:b:5343:PHE:N	2:b:5343:PHE:HD2	2.12	0.46
2:b:5359:PHE:CZ	4:d:5164:GLN:CG	2.98	0.46
23:b:6013:CLA:H72	23:b:6020:CLA:H172	1.97	0.46
23:b:6019:CLA:HMD1	29:b:6060:MGE:O2G	2.16	0.46
3:c:5116:VAL:HG11	26:z:6053:BCR:HC31	1.97	0.46
23:c:6029:CLA:H51	23:c:6029:CLA:C4B	2.46	0.46
4:d:5312:GLU:HG3	13:o:5185:PRO:CB	2.44	0.46
5:e:5052:PRO:HB2	6:f:5045:ARG:OXT	2.15	0.46
8:i:5018:LEU:HD23	8:i:5018:LEU:N	2.30	0.46
13:o:5032:THR:HG23	13:o:5034:ASP:HB2	1.98	0.46
13:o:5176:SER:HB3	13:o:5216:PHE:CE2	2.50	0.46
13:o:5230:VAL:HG11	13:o:5237:ILE:HG22	1.92	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:u:5098:THR:C	15:u:5100:ARG:N	2.73	0.46
15:u:5134:LYS:OXT	16:v:5160:LYS:HD3	2.16	0.46
18:y:5011:GLY:O	18:y:5013:ALA:N	2.48	0.46
18:y:5026:GLY:O	18:y:5027:ASN:C	2.59	0.46
1:A:94:TYR:OH	1:A:104:GLU:HG2	2.16	0.46
2:B:55:MET:SD	2:B:64:PRO:HA	2.56	0.46
2:B:393:GLU:C	2:B:396:GLY:H	2.24	0.46
2:B:478:VAL:O	2:B:479:PHE:C	2.59	0.46
23:B:1012:CLA:HED3	23:B:1013:CLA:C1	2.45	0.46
3:C:306:GLY:O	3:C:309:ALA:HB3	2.15	0.46
23:C:1026:CLA:C9	23:C:1026:CLA:OBD	2.63	0.46
23:C:1027:CLA:CHA	23:C:1027:CLA:CBA	2.76	0.46
23:C:1027:CLA:HBC3	23:C:1027:CLA:HMC3	1.97	0.46
4:D:54:PHE:O	5:E:49:THR:OG1	2.31	0.46
4:D:175:VAL:O	4:D:178:ILE:N	2.49	0.46
7:H:28:THR:O	7:H:31:MET:HB3	2.16	0.46
11:L:12:LEU:HD13	11:L:12:LEU:C	2.40	0.46
12:M:9:ILE:HD12	12:M:9:ILE:N	2.23	0.46
15:U:106:ARG:O	15:U:109:LEU:HB2	2.16	0.46
16:V:63:CYS:O	16:V:66:CYS:N	2.47	0.46
16:V:120:SER:O	16:V:123:SER:CB	2.63	0.46
20:Z:39:LEU:O	20:Z:42:LEU:CB	2.63	0.46
1:a:5255:PHE:O	1:a:5256:GLY:C	2.57	0.46
1:a:5301:ASN:O	3:c:5405:ASN:ND2	2.48	0.46
2:b:5005:VAL:O	2:b:5005:VAL:HG13	2.13	0.46
2:b:5110:TRP:CZ3	2:b:5111:HIS:CE1	3.03	0.46
2:b:5167:ASP:CB	2:b:5168:PRO:HD2	2.45	0.46
3:c:5177:ALA:O	3:c:5181:PHE:HB2	2.15	0.46
23:c:6028:CLA:C5	30:c:6056:DGD:HA52	2.44	0.46
23:c:6035:CLA:H91	26:k:6052:BCR:H383	1.98	0.46
4:d:5022:LEU:CD2	17:x:5037:LEU:HD12	2.45	0.46
4:d:5169:PHE:CD2	4:d:5169:PHE:N	2.83	0.46
4:d:5191:TRP:HH2	4:d:5285:GLY:HA3	1.80	0.46
4:d:5196:PHE:O	4:d:5197:HIS:C	2.58	0.46
4:d:5205:LEU:HB3	23:d:6005:CLA:H11	1.96	0.46
23:d:6005:CLA:H203	24:d:6038:PHO:H92	1.98	0.46
16:v:5054:GLU:O	16:v:5055:GLY:C	2.57	0.46
17:x:5024:LEU:CD1	17:x:5025:SER:N	2.75	0.46
18:y:5019:PHE:CD2	18:y:5019:PHE:C	2.91	0.46
1:A:269:ARG:HH11	4:D:231:THR:CG2	2.29	0.46
23:A:1003:CLA:HMD2	23:D:1005:CLA:HBC1	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A:1044:BCR:H392	26:A:1044:BCR:C22	2.41	0.46
2:B:55:MET:HE3	2:B:80:ILE:HG12	1.98	0.46
2:B:191:ASN:C	2:B:191:ASN:ND2	2.74	0.46
23:B:1010:CLA:H161	30:H:1058:DGD:HA82	1.98	0.46
3:C:34:ALA:O	3:C:38:GLY:CA	2.61	0.46
3:C:334:PRO:CD	3:C:335:THR:H	2.28	0.46
23:C:1032:CLA:C17	23:C:1034:CLA:H191	2.44	0.46
4:D:101:PHE:C	4:D:101:PHE:HD1	2.24	0.46
4:D:336:HIS:H	4:D:336:HIS:CD2	2.33	0.46
13:O:65:ARG:NE	13:O:65:ARG:HA	2.31	0.46
15:U:109:LEU:C	15:U:111:HIS:N	2.74	0.46
26:Z:1053:BCR:H371	26:Z:1053:BCR:H24C	1.64	0.46
1:a:5050:ILE:HB	26:a:6044:BCR:H391	1.96	0.46
1:a:5160:ILE:HG21	1:a:5291:SER:HA	1.98	0.46
1:a:5292:THR:HG22	1:a:5293:MET:HG3	1.96	0.46
1:a:5326:LEU:CD2	3:c:5412:THR:OG1	2.64	0.46
2:b:5435:ASN:O	2:b:5435:ASN:OD1	2.34	0.46
3:c:5117:VAL:O	3:c:5121:SER:HB2	2.15	0.46
3:c:5156:LYS:O	3:c:5160:ILE:CG1	2.62	0.46
3:c:5185:LEU:HB2	3:c:5230:LEU:HD21	1.97	0.46
3:c:5274:TYR:HB3	23:c:6031:CLA:CAB	2.45	0.46
3:c:5417:VAL:HG22	3:c:5418:ASN:N	2.30	0.46
23:c:6037:CLA:CHC	26:z:6053:BCR:H383	2.45	0.46
4:d:5044:ALA:O	4:d:5045:LEU:C	2.58	0.46
4:d:5148:ALA:C	4:d:5279:LEU:HD13	2.40	0.46
4:d:5298:PHE:O	4:d:5299:ILE:C	2.57	0.46
13:o:5059:ASP:O	13:o:5060:SER:CB	2.63	0.46
13:o:5132:VAL:O	13:o:5144:LEU:HD23	2.16	0.46
15:u:5059:ASN:O	15:u:5060:THR:C	2.58	0.46
31:v:6041:HEM:HBB2	31:v:6041:HEM:HHC	1.98	0.46
2:B:229:LEU:HD23	2:B:231:MET:N	2.31	0.46
23:B:1019:CLA:H191	23:B:1021:CLA:C7	2.44	0.46
3:C:255:THR:O	3:C:256:PRO:O	2.33	0.46
3:C:442:LEU:O	3:C:443:TRP:C	2.59	0.46
23:C:1031:CLA:HMA3	23:C:1031:CLA:C2	2.40	0.46
23:C:1037:CLA:CHC	26:Z:1053:BCR:H383	2.45	0.46
4:D:209:LEU:HD13	25:D:1042:PQ9:H193	1.97	0.46
4:D:308:ASP:C	4:D:310:GLU:H	2.23	0.46
23:D:1004:CLA:H41	23:D:1004:CLA:H61	1.71	0.46
5:E:21:VAL:C	5:E:23:HIS:N	2.70	0.46
5:E:75:GLN:C	5:E:79:PHE:HD1	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:O:114:ASN:OD1	13:O:114:ASN:N	2.48	0.46
14:T:2:GLU:HG3	14:T:3:THR:H	1.80	0.46
1:a:5095:PRO:C	1:a:5097:TRP:N	2.74	0.46
1:a:5141:PRO:HG3	3:c:5447:ARG:HA	1.98	0.46
1:a:5199:GLN:OE1	1:a:5200:LEU:N	2.48	0.46
1:a:5279:ARG:O	1:a:5280:VAL:C	2.59	0.46
23:a:6006:CLA:C20	26:d:6050:BCR:H402	2.45	0.46
2:b:5076:SER:C	2:b:5078:THR:H	2.23	0.46
2:b:5150:PHE:CE2	2:b:5155:LEU:HD11	2.51	0.46
2:b:5311:TYR:OH	13:o:5202:GLN:NE2	2.42	0.46
23:b:6010:CLA:H161	30:h:6058:DGD:HA82	1.98	0.46
3:c:5036:TRP:CD1	3:c:5037:ALA:HB2	2.50	0.46
3:c:5213:LEU:HG	3:c:5214:LEU:N	2.31	0.46
3:c:5222:GLY:N	3:c:5226:SER:HB3	2.27	0.46
3:c:5228:ASN:O	3:c:5295:THR:HG21	2.15	0.46
23:c:6026:CLA:C9	23:c:6026:CLA:OBD	2.63	0.46
23:c:6033:CLA:O1A	23:c:6033:CLA:C2	2.64	0.46
30:c:6055:DGD:HB32	30:c:6055:DGD:C7B	2.45	0.46
4:d:5264:LYS:O	4:d:5268:HIS:ND1	2.49	0.46
4:d:5265:ARG:HD2	4:d:5265:ARG:HA	1.84	0.46
23:d:6005:CLA:CED	25:d:6042:PQ9:H391	2.39	0.46
26:d:6050:BCR:C19	29:d:6059:MGE:H5A1	2.46	0.46
10:k:5022:VAL:HG23	10:k:5025:LEU:HD22	1.98	0.46
13:o:5121:PHE:CE1	13:o:5122:VAL:O	2.68	0.46
15:u:5132:LEU:HD23	15:u:5132:LEU:C	2.41	0.46
20:z:5016:SER:C	20:z:5019:MET:H	2.23	0.46
1:A:42:LEU:O	1:A:43:ALA:C	2.59	0.46
1:A:116:ILE:O	1:A:117:PHE:C	2.58	0.46
1:A:142:TRP:CG	3:C:443:TRP:CZ3	3.04	0.46
1:A:227:THR:O	1:A:230:THR:HG23	2.16	0.46
1:A:260:PHE:O	1:A:261:GLN:O	2.33	0.46
1:A:279:ARG:NE	1:A:279:ARG:HA	2.31	0.46
23:A:1003:CLA:C4D	23:D:1005:CLA:HAC2	2.46	0.46
2:B:19:LEU:O	2:B:19:LEU:HD13	2.16	0.46
2:B:178:VAL:O	2:B:179:GLN:HG2	2.16	0.46
2:B:215:PHE:CE1	2:B:219:VAL:HG21	2.51	0.46
2:B:224:ARG:HB3	7:H:25:TRP:CB	2.42	0.46
2:B:249:ALA:HB2	23:B:1012:CLA:HBC1	1.96	0.46
2:B:406:LEU:HD23	2:B:409:GLN:NE2	2.31	0.46
23:B:1009:CLA:C4	26:H:1049:BCR:H353	2.24	0.46
23:B:1010:CLA:CAA	23:B:1010:CLA:CBD	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1019:CLA:H193	23:B:1019:CLA:H162	1.55	0.46
3:C:67:MET:O	3:C:70:PHE:HB3	2.15	0.46
3:C:128:GLY:HA3	23:C:1037:CLA:HAC2	1.95	0.46
3:C:234:VAL:O	3:C:238:ILE:HG13	2.15	0.46
3:C:237:HIS:O	3:C:240:ILE:CG2	2.64	0.46
26:C:1054:BCR:C8	26:C:1054:BCR:C33	2.90	0.46
4:D:39:PRO:O	4:D:43:LEU:CD2	2.62	0.46
4:D:67:TYR:CD1	4:D:76:VAL:HG21	2.51	0.46
4:D:126:MET:HG3	4:D:146:PHE:HB3	1.97	0.46
4:D:152:VAL:HG23	23:D:1004:CLA:O2D	2.15	0.46
4:D:236:ASN:HB3	4:D:237:PRO:CA	2.39	0.46
4:D:263:ASN:OD1	4:D:263:ASN:O	2.34	0.46
4:D:298:PHE:O	4:D:301:GLN:N	2.29	0.46
26:D:1050:BCR:C33	26:D:1050:BCR:C8	2.36	0.46
26:D:1050:BCR:H281	29:J:1059:MGE:C9B	2.33	0.46
7:H:53:LEU:CG	7:H:55:LEU:HD11	2.36	0.46
12:M:22:LEU:C	12:M:24:ILE:N	2.74	0.46
15:U:40:VAL:CG1	15:U:41:ASN:N	2.78	0.46
1:a:5024:THR:HB	1:a:5137:LEU:HD21	1.97	0.46
1:a:5147:TYR:O	1:a:5147:TYR:CD1	2.69	0.46
1:a:5247:ASN:ND2	1:a:5250:ALA:H	2.07	0.46
23:a:6003:CLA:HMC2	4:d:5182:LEU:HD13	1.98	0.46
2:b:5060:LEU:HG	2:b:5090:PHE:HE1	1.81	0.46
2:b:5140:LEU:HD12	2:b:5210:GLY:CA	2.46	0.46
2:b:5216:VAL:CG1	2:b:5217:ARG:H	2.27	0.46
2:b:5343:PHE:CE1	2:b:5418:ALA:HB2	2.51	0.46
23:b:6009:CLA:C4	26:h:6049:BCR:H353	2.24	0.46
23:b:6010:CLA:H13	30:h:6058:DGD:HA82	1.97	0.46
3:c:5105:VAL:O	3:c:5105:VAL:HG13	2.14	0.46
23:c:6033:CLA:C12	23:c:6033:CLA:H92	2.36	0.46
4:d:5017:ILE:O	4:d:5018:LEU:C	2.59	0.46
4:d:5184:PHE:O	4:d:5188:PHE:HD1	1.98	0.46
4:d:5300:SER:C	4:d:5303:ILE:HD11	2.40	0.46
4:d:5320:LEU:C	4:d:5322:ASN:N	2.72	0.46
25:d:6042:PQ9:H152	25:d:6042:PQ9:H111	1.79	0.46
11:l:5021:LEU:O	11:l:5024:ILE:CG2	2.59	0.46
13:o:5184:ASP:O	13:o:5185:PRO:C	2.58	0.46
15:u:5055:ILE:HG21	15:u:5065:PHE:HE2	1.75	0.46
16:v:5028:GLU:OE2	16:v:5028:GLU:HA	2.16	0.46
17:x:5035:ALA:O	17:x:5038:ILE:HD12	2.16	0.46
1:A:325:ASN:O	1:A:328:MET:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:284:ILE:CG1	2:B:285:ASN:H	2.27	0.46
2:B:422:ARG:HD2	2:B:423:LYS:HZ2	1.77	0.46
2:B:429:ILE:N	2:B:429:ILE:CD1	2.78	0.46
2:B:457:VAL:HG13	4:D:284:ILE:HD13	1.98	0.46
23:B:1013:CLA:H93	23:B:1013:CLA:H62	1.71	0.46
23:B:1023:CLA:C7	26:B:1048:BCR:H341	2.46	0.46
3:C:86:LEU:HB3	3:C:90:PRO:HD3	1.98	0.46
3:C:100:GLY:O	3:C:102:GLY:N	2.49	0.46
3:C:453:ALA:HB1	3:C:455:PHE:CE2	2.50	0.46
23:C:1027:CLA:CED	23:C:1036:CLA:H203	2.37	0.46
4:D:61:HIS:O	4:D:63:LEU:N	2.49	0.46
10:K:18:PHE:O	10:K:19:ASP:C	2.58	0.46
11:L:32:SER:O	11:L:35:PHE:N	2.38	0.46
13:O:117:GLY:HA3	13:O:158:ASN:ND2	2.31	0.46
13:O:153:ALA:HB1	13:O:168:PHE:CD2	2.51	0.46
15:U:72:TYR:HD2	15:U:73:PRO:HD3	1.81	0.46
16:V:81:ARG:HG3	16:V:81:ARG:NH1	2.30	0.46
20:Z:1:MET:SD	20:Z:60:PHE:HD2	2.39	0.46
1:a:5028:LEU:HD21	4:d:5258:GLY:HA2	1.97	0.46
1:a:5094:TYR:CE1	1:a:5108:ASN:HB2	2.51	0.46
1:a:5095:PRO:O	1:a:5096:ILE:C	2.58	0.46
1:a:5209:ALA:C	1:a:5211:PHE:N	2.71	0.46
1:a:5225:ARG:HB3	2:b:5481:PRO:CD	2.46	0.46
1:a:5340:PRO:HG3	3:c:5317:PHE:CZ	2.51	0.46
2:b:5003:TYR:O	2:b:5004:ARG:HG2	2.16	0.46
2:b:5006:HIS:NE2	23:b:6020:CLA:HBB2	2.30	0.46
2:b:5014:GLY:C	2:b:5016:LEU:N	2.74	0.46
2:b:5038:GLU:HB3	2:b:5057:MET:SD	2.56	0.46
2:b:5062:PHE:HZ	2:b:5448:PHE:CE1	2.34	0.46
2:b:5131:ASP:CG	7:h:5017:GLU:O	2.59	0.46
2:b:5154:HIS:ND1	2:b:5155:LEU:HD23	2.30	0.46
23:b:6022:CLA:HMB1	26:b:6045:BCR:H401	1.96	0.46
29:b:6060:MGE:H102	29:b:6060:MGE:H7A1	1.65	0.46
3:c:5082:TYR:HB3	3:c:5302:TYR:O	2.16	0.46
3:c:5286:ALA:HB2	23:c:6026:CLA:CMD	2.46	0.46
23:c:6035:CLA:H102	26:k:6052:BCR:H403	1.95	0.46
4:d:5037:LEU:HG	4:d:5038:PHE:N	2.30	0.46
4:d:5061:HIS:C	4:d:5063:LEU:N	2.72	0.46
4:d:5102:THR:O	4:d:5105:CYS:HB3	2.15	0.46
4:d:5106:GLN:C	4:d:5108:GLY:H	2.24	0.46
4:d:5115:ALA:O	4:d:5119:ALA:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5281:MET:CE	4:d:5284:ILE:CD1	2.91	0.46
5:e:5022:ILE:HA	5:e:5025:ILE:HD12	1.97	0.46
9:j:5025:VAL:HA	9:j:5028:PHE:HB2	1.98	0.46
10:k:5013:GLU:O	10:k:5016:ALA:CB	2.63	0.46
11:l:5027:LEU:C	11:l:5027:LEU:CD1	2.88	0.46
13:o:5032:THR:O	13:o:5033:TYR:C	2.58	0.46
13:o:5068:ARG:NH2	13:o:5105:ASP:OD1	2.49	0.46
15:u:5083:ALA:HB1	15:u:5084:PRO:HD2	1.98	0.46
16:v:5067:HIS:ND1	16:v:5067:HIS:N	2.64	0.46
17:x:5012:ILE:O	17:x:5012:ILE:CG1	2.63	0.46
1:A:41:LEU:HD12	24:A:1038:PHO:H52	1.98	0.46
1:A:223:LEU:CD2	1:A:245:THR:O	2.64	0.46
1:A:243:GLU:OE1	1:A:243:GLU:N	2.48	0.46
1:A:268:SER:HB3	4:D:236:ASN:HD21	1.81	0.46
24:A:1038:PHO:H92	23:D:1005:CLA:C19	2.45	0.46
27:A:1063:LHG:P	27:A:1063:LHG:HC62	2.54	0.46
2:B:156:PHE:HB3	2:B:162:PHE:CB	2.45	0.46
2:B:422:ARG:HB3	2:B:422:ARG:HH11	1.80	0.46
23:B:1010:CLA:H41	7:H:46:LEU:CA	2.46	0.46
3:C:56:HIS:C	3:C:58:GLY:N	2.74	0.46
3:C:74:HIS:O	3:C:75:PHE:C	2.57	0.46
3:C:94:THR:HG22	3:C:298:PRO:CG	2.45	0.46
3:C:228:ASN:O	3:C:295:THR:HG21	2.16	0.46
3:C:374:GLY:O	3:C:375:LEU:C	2.58	0.46
23:C:1029:CLA:C4B	23:C:1029:CLA:H51	2.46	0.46
4:D:18:LEU:O	4:D:22:LEU:HG	2.16	0.46
4:D:55:VAL:CG1	4:D:105:CYS:SG	3.04	0.46
4:D:70:GLY:O	9:J:37:GLY:HA3	2.16	0.46
4:D:161:PRO:HG3	4:D:170:ALA:CB	2.45	0.46
4:D:184:PHE:HA	4:D:329:MET:HE1	1.98	0.46
4:D:263:ASN:OD1	4:D:266:TRP:N	2.48	0.46
4:D:299:ILE:C	4:D:301:GLN:H	2.23	0.46
25:D:1042:PQ9:H261	25:D:1042:PQ9:H292	1.27	0.46
5:E:45:ASP:OD1	5:E:51:ARG:NH2	2.49	0.46
8:I:6:ILE:O	8:I:7:THR:C	2.57	0.46
9:J:30:TYR:C	9:J:30:TYR:CD2	2.93	0.46
14:T:15:ALA:O	14:T:17:PHE:N	2.49	0.46
15:U:98:THR:O	15:U:99:GLU:C	2.59	0.46
16:V:68:VAL:O	16:V:70:GLY:N	2.49	0.46
16:V:120:SER:O	16:V:122:ARG:N	2.48	0.46
31:V:1041:HEM:HHD	31:V:1041:HEM:CBC	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:Z:10:ALA:O	20:Z:13:VAL:CG1	2.63	0.46
1:a:5041:LEU:HD12	24:d:6038:PHO:H51	1.98	0.46
1:a:5252:HIS:HD2	1:a:5265:PHE:C	2.24	0.46
1:a:5269:ARG:CZ	4:d:5222:LEU:HD22	2.46	0.46
1:a:5279:ARG:C	1:a:5279:ARG:CD	2.87	0.46
1:a:5279:ARG:HD2	1:a:5283:VAL:HG11	1.95	0.46
2:b:5094:ALA:O	2:b:5095:LEU:C	2.58	0.46
2:b:5136:PHE:O	2:b:5137:GLY:C	2.58	0.46
2:b:5210:GLY:O	2:b:5211:LEU:C	2.58	0.46
2:b:5450:PHE:O	2:b:5453:ALA:HB2	2.15	0.46
2:b:5464:ILE:HG21	4:d:5126:MET:CE	2.46	0.46
3:c:5054:VAL:HA	23:c:6036:CLA:HED1	1.98	0.46
3:c:5377:LEU:O	3:c:5380:ILE:CG2	2.64	0.46
23:c:6025:CLA:H42	23:c:6025:CLA:CHB	2.45	0.46
23:c:6029:CLA:H52	23:c:6029:CLA:CHC	2.44	0.46
4:d:5018:LEU:O	4:d:5019:ASP:C	2.57	0.46
4:d:5072:ASN:O	4:d:5073:PHE:C	2.58	0.46
4:d:5117:HIS:C	4:d:5119:ALA:N	2.71	0.46
4:d:5154:VAL:HA	4:d:5158:LEU:HD12	1.98	0.46
8:i:5006:ILE:C	8:i:5008:VAL:N	2.70	0.46
10:k:5031:LEU:C	26:k:6051:BCR:C14	2.89	0.46
1:A:69:GLY:HA2	4:D:313:THR:HG22	1.98	0.45
1:A:87:ASN:HD22	3:C:356:MET:HE3	1.80	0.45
1:A:126:TYR:OH	4:D:257:PHE:HB2	2.16	0.45
1:A:150:PRO:CA	23:A:1003:CLA:C4	2.82	0.45
2:B:103:LEU:C	2:B:106:LEU:HB3	2.41	0.45
2:B:193:TYR:O	2:B:261:ALA:HB2	2.16	0.45
2:B:223:GLN:CG	7:H:24:GLY:HA2	2.45	0.45
2:B:224:ARG:HG2	7:H:25:TRP:CD1	2.52	0.45
2:B:324:LEU:O	2:B:325:PHE:CD2	2.69	0.45
2:B:463:PHE:O	2:B:466:HIS:HB3	2.16	0.45
3:C:340:TYR:C	3:C:341:LEU:HG	2.40	0.45
3:C:384:ILE:O	3:C:384:ILE:CG2	2.54	0.45
23:C:1028:CLA:H71	30:C:1056:DGD:C7A	2.46	0.45
23:C:1029:CLA:HMA3	23:C:1029:CLA:HAA2	1.76	0.45
4:D:21:TRP:O	4:D:22:LEU:C	2.58	0.45
4:D:168:PHE:C	4:D:170:ALA:H	2.25	0.45
4:D:275:PRO:C	4:D:277:THR:N	2.72	0.45
29:J:1059:MGE:H6D2	29:J:1059:MGE:H1D	1.78	0.45
13:O:142:ILE:N	13:O:142:ILE:CD1	2.75	0.45
13:O:269:ILE:O	13:O:270:GLU:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T:24:ARG:O	14:T:26:PRO:HD3	2.16	0.45
16:V:67:HIS:ND1	16:V:80:LEU:HD11	2.30	0.45
1:a:5219:VAL:CB	4:d:5268:HIS:CD2	2.99	0.45
1:a:5259:ILE:O	1:a:5260:PHE:O	2.34	0.45
2:b:5226:LEU:HD23	2:b:5226:LEU:C	2.41	0.45
2:b:5343:PHE:HE1	2:b:5418:ALA:HB2	1.81	0.45
2:b:5445:ARG:HG3	2:b:5445:ARG:HH11	1.81	0.45
23:b:6013:CLA:H141	23:b:6018:CLA:CMA	2.46	0.45
23:b:6014:CLA:HMA2	23:b:6014:CLA:CGA	2.21	0.45
23:b:6014:CLA:C15	23:b:6014:CLA:H192	2.43	0.45
23:b:6017:CLA:H191	7:h:5039:LEU:CD1	2.45	0.45
3:c:5304:PRO:O	3:c:5304:PRO:HG2	2.15	0.45
3:c:5317:PHE:CD1	3:c:5320:ARG:HD3	2.51	0.45
3:c:5328:VAL:HG12	3:c:5340:TYR:CG	2.51	0.45
4:d:5103:ARG:NH2	5:e:5080:LEU:HD12	2.25	0.45
4:d:5261:PHE:CZ	4:d:5267:LEU:HA	2.51	0.45
24:d:6038:PHO:H93	24:d:6038:PHO:H62	1.57	0.45
7:h:5003:ARG:NH1	7:h:5003:ARG:HB2	2.31	0.45
13:o:5128:ASP:O	13:o:5147:THR:HA	2.16	0.45
1:A:75:ASN:ND2	14:T:3:THR:OG1	2.49	0.45
1:A:243:GLU:HA	4:D:241:GLU:CB	2.45	0.45
1:A:322:ASN:HD22	1:A:322:ASN:HA	1.53	0.45
24:A:1039:PHO:H71	4:D:122:LEU:CD1	2.44	0.45
2:B:18:ARG:HB3	2:B:115:TRP:CD1	2.51	0.45
2:B:137:LYS:O	2:B:138:MET:C	2.59	0.45
2:B:165:GLY:HA3	2:B:179:GLN:C	2.41	0.45
2:B:449:GLY:O	2:B:450:TRP:C	2.60	0.45
2:B:454:ALA:CB	23:B:1015:CLA:HBB2	2.46	0.45
2:B:476:ARG:HD2	2:B:476:ARG:C	2.41	0.45
3:C:39:ASN:HB3	23:C:1032:CLA:HBA1	1.98	0.45
3:C:151:TRP:CD2	3:C:268:GLY:HA3	2.51	0.45
3:C:449:ARG:NE	23:C:1029:CLA:HED2	2.30	0.45
23:C:1033:CLA:O1A	23:C:1033:CLA:C2	2.64	0.45
4:D:68:LEU:HD21	5:E:44:TYR:CE1	2.51	0.45
4:D:103:ARG:HD3	5:E:73:LYS:HD2	1.98	0.45
5:E:15:THR:O	5:E:16:SER:C	2.60	0.45
8:I:1:MET:HE1	8:I:4:LEU:HD23	1.97	0.45
13:O:148:VAL:HG12	13:O:151:LEU:CB	2.33	0.45
18:Y:29:GLY:O	18:Y:33:PRO:HD2	2.16	0.45
18:Y:29:GLY:O	18:Y:33:PRO:HD3	2.16	0.45
1:a:5080:GLY:O	1:a:5081:ALA:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5094:TYR:CB	1:a:5113:GLN:OE1	2.64	0.45
1:a:5192:ILE:HD11	1:a:5290:ILE:HD11	1.97	0.45
23:a:6006:CLA:H92	23:a:6006:CLA:H61	1.81	0.45
2:b:5002:TRP:CE2	2:b:5003:TYR:HB3	2.51	0.45
2:b:5089:SER:OG	2:b:5091:GLU:CG	2.64	0.45
2:b:5241:ALA:O	2:b:5244:PHE:HB3	2.16	0.45
2:b:5381:ARG:NH2	4:d:5352:LEU:OXT	2.49	0.45
2:b:5429:PHE:N	2:b:5429:PHE:HD1	2.14	0.45
2:b:5453:ALA:HB1	30:h:6058:DGD:HBG3	1.98	0.45
3:c:5036:TRP:C	3:c:5038:GLY:H	2.24	0.45
3:c:5265:ILE:O	3:c:5270:ALA:CB	2.65	0.45
23:c:6025:CLA:OBD	23:c:6025:CLA:HED3	2.15	0.45
23:c:6027:CLA:CED	23:c:6036:CLA:H203	2.37	0.45
5:e:5017:VAL:O	5:e:5021:VAL:HG23	2.16	0.45
10:k:5040:GLN:HB3	10:k:5045:PHE:HE1	1.75	0.45
11:l:5036:PHE:HE1	12:m:5008:PHE:CB	2.30	0.45
13:o:5118:SER:C	13:o:5119:LEU:HD23	2.40	0.45
13:o:5246:LEU:O	13:o:5247:SER:O	2.33	0.45
13:o:5250:ASP:O	13:o:5253:ALA:CB	2.64	0.45
1:A:119:PHE:HZ	23:A:1003:CLA:H91	1.80	0.45
1:A:160:ILE:CG2	1:A:291:SER:HA	2.44	0.45
1:A:320:ILE:O	1:A:321:ILE:C	2.58	0.45
23:A:1006:CLA:CED	30:C:1057:DGD:HBW1	2.44	0.45
26:A:1044:BCR:C39	26:A:1044:BCR:H373	2.26	0.45
2:B:79:SER:C	2:B:81:THR:N	2.71	0.45
2:B:86:ILE:O	2:B:87:ASP:CB	2.60	0.45
2:B:120:LEU:O	2:B:121:GLU:O	2.35	0.45
2:B:143:LEU:HD13	2:B:143:LEU:C	2.42	0.45
2:B:149:LEU:HG	23:B:1011:CLA:HBC1	1.98	0.45
2:B:223:GLN:C	2:B:227:LYS:HG2	2.42	0.45
2:B:315:ILE:CG2	2:B:316:GLY:N	2.79	0.45
2:B:342:GLY:CA	2:B:404:GLY:HA3	2.46	0.45
2:B:429:ILE:H	2:B:429:ILE:CD1	2.28	0.45
2:B:467:ILE:O	2:B:471:ALA:HB2	2.16	0.45
23:B:1022:CLA:O1A	23:B:1022:CLA:C1A	2.65	0.45
3:C:126:GLY:O	3:C:127:PHE:C	2.59	0.45
3:C:318:LEU:HD23	3:C:318:LEU:C	2.41	0.45
3:C:322:GLN:NE2	3:C:381:LYS:HA	2.17	0.45
3:C:329:GLY:O	13:O:127:ILE:HG23	2.16	0.45
3:C:369:LEU:O	3:C:369:LEU:CD1	2.65	0.45
30:C:1055:DGD:HB91	30:C:1055:DGD:HB61	1.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:74:LEU:O	4:D:175:VAL:HG23	2.17	0.45
4:D:123:ILE:O	4:D:127:LEU:CD2	2.65	0.45
5:E:51:ARG:C	5:E:53:ASP:N	2.74	0.45
5:E:53:ASP:OD2	5:E:54:SER:N	2.49	0.45
11:L:36:PHE:CD2	14:T:6:TYR:CZ	3.04	0.45
13:O:215:ARG:CD	13:O:215:ARG:N	2.73	0.45
16:V:105:PRO:HG2	16:V:115:ALA:HA	1.97	0.45
20:Z:54:VAL:O	26:Z:1053:BCR:H313	2.16	0.45
1:a:5281:VAL:HG13	1:a:5282:GLY:H	1.79	0.45
23:a:6003:CLA:C4D	23:d:6005:CLA:HAC2	2.46	0.45
23:a:6006:CLA:CED	30:c:6057:DGD:HBW1	2.44	0.45
23:a:6006:CLA:H18	26:d:6050:BCR:H292	1.98	0.45
24:a:6039:PHO:H61	24:a:6039:PHO:H102	1.65	0.45
2:b:5135:MET:O	2:b:5138:ILE:CD1	2.63	0.45
2:b:5326:PRO:O	2:b:5327:MET:C	2.59	0.45
2:b:5419:ARG:HB3	2:b:5419:ARG:HH11	1.81	0.45
2:b:5464:ILE:O	2:b:5468:ALA:HB2	2.17	0.45
23:b:6016:CLA:C14	23:d:6008:CLA:HMB3	2.45	0.45
3:c:5095:LEU:H	3:c:5095:LEU:CD2	2.25	0.45
3:c:5139:THR:O	3:c:5143:TYR:HD2	1.99	0.45
3:c:5160:ILE:CG2	3:c:5164:HIS:HE1	2.13	0.45
3:c:5203:THR:H	3:c:5235:GLY:HA3	1.81	0.45
3:c:5436:PHE:O	23:c:6032:CLA:HMC2	2.16	0.45
23:c:6028:CLA:H43	30:c:6057:DGD:HA42	1.99	0.45
23:c:6031:CLA:HMA3	23:c:6031:CLA:C2	2.40	0.45
4:d:5040:CYS:C	4:d:5042:TYR:N	2.72	0.45
4:d:5118:GLY:O	4:d:5122:LEU:HB2	2.15	0.45
4:d:5152:VAL:CG1	4:d:5153:PHE:H	2.29	0.45
7:h:5003:ARG:HH22	11:l:5001:MET:N	2.14	0.45
12:m:5011:THR:O	12:m:5015:VAL:CG2	2.59	0.45
13:o:5107:ILE:HA	13:o:5126:GLY:HA3	1.99	0.45
15:u:5098:THR:O	15:u:5099:GLU:C	2.59	0.45
16:v:5098:LEU:HD22	16:v:5142:ALA:O	2.17	0.45
16:v:5148:GLU:HB2	16:v:5149:PRO:CD	2.46	0.45
17:x:5024:LEU:HD12	17:x:5025:SER:CA	2.46	0.45
17:x:5024:LEU:C	17:x:5024:LEU:CD1	2.82	0.45
20:z:5016:SER:CA	20:z:5019:MET:HB2	2.38	0.45
1:A:306:VAL:CG2	1:A:316:THR:HG23	2.46	0.45
23:A:1003:CLA:C3B	23:A:1006:CLA:HMD2	2.43	0.45
24:A:1038:PHO:H143	24:A:1038:PHO:H101	1.93	0.45
2:B:160:GLY:C	2:B:162:PHE:H	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:486:LEU:HD12	2:B:489:GLU:OE1	2.16	0.45
23:B:1013:CLA:H141	23:B:1018:CLA:CMA	2.46	0.45
23:B:1016:CLA:C14	23:D:1008:CLA:HMB3	2.45	0.45
3:C:61:VAL:O	3:C:64:ALA:HB3	2.16	0.45
3:C:84:GLN:CB	3:C:86:LEU:HD13	2.46	0.45
3:C:158:THR:O	3:C:158:THR:HG22	2.16	0.45
3:C:249:ILE:HD12	3:C:249:ILE:N	2.31	0.45
3:C:270:ALA:O	3:C:274:TYR:HD1	1.98	0.45
3:C:391:ARG:CZ	3:C:391:ARG:HB2	2.45	0.45
3:C:456:GLU:O	3:C:457:LYS:HB2	2.15	0.45
3:C:464:GLU:CG	3:C:467:LEU:HB2	2.45	0.45
23:C:1026:CLA:HMB1	23:C:1026:CLA:CBB	2.40	0.45
4:D:45:LEU:C	4:D:45:LEU:CD1	2.82	0.45
4:D:83:ASN:CG	4:D:336:HIS:CE1	2.95	0.45
4:D:253:TRP:C	4:D:255:GLN:N	2.73	0.45
23:D:1004:CLA:HBA1	23:D:1004:CLA:H3A	1.60	0.45
10:K:18:PHE:CZ	20:Z:9:LEU:HD21	2.52	0.45
11:L:24:ILE:HG23	11:L:25:LEU:H	1.80	0.45
13:O:237:ILE:HD13	13:O:269:ILE:HD11	1.99	0.45
13:O:239:GLY:O	13:O:264:VAL:CG1	2.65	0.45
16:V:66:CYS:O	16:V:68:VAL:N	2.50	0.45
1:a:5016:ARG:HD3	1:a:5016:ARG:C	2.41	0.45
1:a:5225:ARG:O	1:a:5226:GLU:OE1	2.34	0.45
1:a:5237:TYR:CE2	1:a:5239:PHE:HA	2.42	0.45
1:a:5304:HIS:O	1:a:5306:VAL:O	2.33	0.45
2:b:5066:LEU:HD21	2:b:5150:PHE:HZ	1.81	0.45
2:b:5248:VAL:CB	23:b:6010:CLA:HED1	2.47	0.45
2:b:5365:VAL:O	2:b:5365:VAL:HG13	2.16	0.45
2:b:5389:PHE:O	2:b:5390:GLU:CB	2.63	0.45
2:b:5395:THR:CA	2:b:5414:VAL:HG21	2.43	0.45
2:b:5427:PHE:HB2	2:b:5429:PHE:CE1	2.50	0.45
29:b:6060:MGE:H5A2	29:b:6060:MGE:H263	1.98	0.45
3:c:5074:HIS:O	3:c:5075:PHE:C	2.59	0.45
3:c:5128:GLY:O	3:c:5131:TYR:HB3	2.16	0.45
3:c:5151:TRP:C	3:c:5153:ASP:H	2.24	0.45
3:c:5166:ILE:HG23	3:c:5245:ILE:CD1	2.47	0.45
3:c:5171:GLY:O	3:c:5174:LEU:N	2.50	0.45
23:c:6029:CLA:H152	23:c:6029:CLA:H111	1.59	0.45
4:d:5156:VAL:HG21	23:d:6004:CLA:OBD	2.15	0.45
4:d:5161:PRO:CG	4:d:5170:ALA:HB2	2.46	0.45
7:h:5024:GLY:C	7:h:5026:GLY:N	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l:5028:ALA:HB2	12:m:5015:VAL:HG22	1.98	0.45
12:m:5031:SER:C	12:m:5033:GLN:H	2.24	0.45
13:o:5106:GLN:O	13:o:5126:GLY:HA2	2.15	0.45
16:v:5152:LEU:O	16:v:5153:GLY:C	2.59	0.45
1:A:29:TYR:CD2	1:A:133:LEU:HD13	2.51	0.45
1:A:101:SER:C	1:A:103:ASP:N	2.72	0.45
23:A:1006:CLA:H111	30:C:1057:DGD:HBG2	1.86	0.45
2:B:193:TYR:C	2:B:261:ALA:HB2	2.42	0.45
2:B:281:GLN:C	2:B:283:GLU:N	2.75	0.45
2:B:360:PRO:O	2:B:361:ALA:C	2.59	0.45
2:B:373:LYS:HG3	2:B:374:ASN:H	1.80	0.45
2:B:389:LYS:HB3	2:B:390:TYR:HD1	1.81	0.45
2:B:440:ASP:OD2	2:B:440:ASP:C	2.59	0.45
2:B:441:GLY:O	13:O:201:PRO:HD2	2.17	0.45
23:B:1016:CLA:H143	23:B:1016:CLA:H162	1.62	0.45
3:C:341:LEU:HD23	3:C:351:PHE:HA	1.99	0.45
3:C:382:ASN:C	3:C:384:ILE:N	2.72	0.45
23:C:1027:CLA:HBA1	23:C:1027:CLA:CBD	2.45	0.45
30:C:1056:DGD:HG12	30:C:1056:DGD:C2B	2.01	0.45
4:D:68:LEU:HD22	5:E:44:TYR:HE1	1.81	0.45
4:D:156:VAL:O	4:D:157:PHE:CD1	2.69	0.45
4:D:198:MET:O	25:D:1042:PQ9:H393	2.17	0.45
4:D:221:THR:HG23	4:D:244:TYR:CB	2.47	0.45
5:E:75:GLN:HG3	5:E:79:PHE:CE1	2.52	0.45
13:O:36:ILE:HG22	13:O:36:ILE:O	2.14	0.45
15:U:60:THR:O	15:U:127:ARG:NH1	2.50	0.45
18:Y:19:ILE:C	18:Y:19:ILE:CD1	2.89	0.45
18:Y:42:ARG:HG2	18:Y:42:ARG:HH11	1.81	0.45
1:a:5036:ILE:HD11	8:i:5019:PHE:HB2	1.99	0.45
1:a:5116:ILE:HG23	1:a:5117:PHE:HD2	1.78	0.45
1:a:5337:HIS:CB	28:a:6065:BR:BR	3.19	0.45
2:b:5035:ALA:O	2:b:5036:LEU:C	2.57	0.45
2:b:5217:ARG:CG	7:h:5022:ALA:HB2	2.47	0.45
2:b:5255:TYR:O	2:b:5256:GLY:O	2.34	0.45
2:b:5461:PHE:CD1	23:b:6019:CLA:CBC	2.97	0.45
3:c:5333:GLY:N	3:c:5339:LYS:N	2.64	0.45
3:c:5365:TRP:CZ3	3:c:5366:LEU:HD13	2.50	0.45
4:d:5092:LEU:CD1	4:d:5092:LEU:C	2.90	0.45
4:d:5175:VAL:C	4:d:5177:ALA:N	2.74	0.45
4:d:5199:MET:HE3	4:d:5281:MET:HG3	1.98	0.45
4:d:5221:THR:HG23	4:d:5244:TYR:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5337:GLU:O	4:d:5338:ASN:C	2.59	0.45
5:e:5044:TYR:CB	5:e:5051:ARG:HH21	2.30	0.45
6:f:5042:PHE:HE1	9:j:5027:LEU:HD11	1.81	0.45
12:m:5013:LEU:C	12:m:5015:VAL:N	2.74	0.45
13:o:5041:LEU:C	13:o:5043:ASN:H	2.24	0.45
13:o:5155:THR:HG23	13:o:5156:GLN:O	2.17	0.45
15:u:5113:THR:CG2	15:u:5114:VAL:N	2.79	0.45
18:y:5012:ILE:O	18:y:5012:ILE:HG12	2.16	0.45
20:z:5049:ALA:O	20:z:5050:LEU:C	2.60	0.45
1:A:160:ILE:HG13	3:C:431:PHE:HE1	1.81	0.45
1:A:176:ILE:O	1:A:179:THR:HB	2.17	0.45
1:A:258:LEU:HA	4:D:132:ILE:HD12	1.99	0.45
23:A:1003:CLA:HAA2	23:A:1003:CLA:HBD	1.99	0.45
24:A:1038:PHO:H92	23:D:1005:CLA:H203	1.98	0.45
24:A:1039:PHO:HAC1	24:A:1039:PHO:HMC2	1.42	0.45
2:B:68:ARG:CG	2:B:69:LEU:H	2.30	0.45
2:B:219:VAL:CG1	2:B:220:ARG:H	2.29	0.45
2:B:306:PRO:O	2:B:307:GLU:C	2.59	0.45
2:B:442:ILE:O	2:B:443:PHE:O	2.35	0.45
23:B:1012:CLA:H3A	23:B:1012:CLA:HBA2	1.42	0.45
23:B:1022:CLA:C17	23:B:1022:CLA:H71	2.19	0.45
3:C:166:ILE:HD13	3:C:245:ILE:HA	1.98	0.45
3:C:262:ARG:C	3:C:263:ALA:O	2.56	0.45
3:C:391:ARG:HH11	3:C:391:ARG:CG	2.29	0.45
3:C:431:PHE:C	3:C:431:PHE:HD2	2.23	0.45
23:C:1028:CLA:H92	30:C:1056:DGD:HBW1	1.98	0.45
4:D:18:LEU:HD13	17:X:37:LEU:HB3	1.98	0.45
4:D:195:PRO:HA	4:D:198:MET:HE3	1.92	0.45
7:H:30:LEU:O	7:H:33:VAL:HG12	2.17	0.45
1:a:5076:ASN:CB	1:a:5079:THR:HG23	2.44	0.45
1:a:5078:ILE:HG13	11:l:5034:TYR:CZ	2.51	0.45
1:a:5242:GLU:N	1:a:5243:GLU:OE1	2.50	0.45
1:a:5271:LEU:HD23	1:a:5271:LEU:HA	1.85	0.45
2:b:5052:MET:SD	2:b:5061:PRO:CA	3.05	0.45
2:b:5146:LEU:HD23	23:b:6011:CLA:HBC1	1.97	0.45
2:b:5252:THR:O	2:b:5257:SER:HB2	2.17	0.45
2:b:5328:ASN:O	2:b:5434:LEU:HD11	2.16	0.45
2:b:5329:LYS:HA	2:b:5434:LEU:HD13	1.99	0.45
2:b:5473:ARG:O	2:b:5474:ASP:C	2.60	0.45
23:b:6010:CLA:H41	7:h:5046:LEU:CB	2.45	0.45
23:b:6019:CLA:CHC	23:b:6019:CLA:CBB	2.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5134:ILE:HG22	20:z:5027:TYR:CB	2.46	0.45
3:c:5240:ILE:HG23	3:c:5241:GLY:N	2.30	0.45
23:c:6026:CLA:HBD	23:c:6026:CLA:HAA1	1.97	0.45
23:c:6028:CLA:H71	30:c:6056:DGD:C7A	2.46	0.45
5:e:5080:LEU:O	5:e:5082:GLN:N	2.50	0.45
15:u:5100:ARG:HA	15:u:5100:ARG:HD2	1.72	0.45
16:v:5105:PRO:CG	16:v:5115:ALA:HB2	2.46	0.45
16:v:5121:LEU:HD13	16:v:5121:LEU:HA	1.82	0.45
17:x:5026:GLY:C	17:x:5029:VAL:HG12	2.36	0.45
1:A:37:MET:C	1:A:41:LEU:HD23	2.41	0.45
1:A:140:ARG:HB2	4:D:220:ASN:CA	2.47	0.45
1:A:159:LEU:HG	1:A:163:ILE:CD1	2.45	0.45
1:A:329:GLU:OE1	3:C:412:THR:OG1	2.35	0.45
23:A:1003:CLA:CHD	23:A:1003:CLA:CBC	2.91	0.45
23:A:1006:CLA:H162	26:D:1050:BCR:H291	1.98	0.45
24:A:1038:PHO:HED1	4:D:213:ILE:HB	1.98	0.45
2:B:95:GLY:O	2:B:99:ALA:N	2.23	0.45
2:B:280:PHE:O	2:B:284:ILE:HG23	2.16	0.45
3:C:95:LEU:HA	3:C:185:LEU:HD23	1.99	0.45
3:C:320:ARG:O	3:C:324:LEU:HD13	2.16	0.45
3:C:334:PRO:HA	13:O:179:THR:CB	2.47	0.45
3:C:394:GLU:CD	16:V:127:PHE:CE2	2.95	0.45
4:D:68:LEU:CD2	5:E:44:TYR:CE1	2.99	0.45
5:E:30:LEU:HD12	6:F:31:ILE:HG23	1.98	0.45
7:H:7:LEU:O	7:H:7:LEU:HD23	2.17	0.45
7:H:13:PRO:C	7:H:15:ASN:N	2.72	0.45
8:I:13:THR:O	8:I:16:VAL:HG22	2.17	0.45
10:K:10:LYS:O	10:K:10:LYS:CG	2.65	0.45
26:K:1051:BCR:C39	26:K:1051:BCR:H373	2.29	0.45
11:L:26:VAL:HG21	29:L:1061:MGE:CGB	2.39	0.45
13:O:65:ARG:HH11	13:O:108:GLN:HB2	1.82	0.45
13:O:91:PHE:CE1	13:O:260:LYS:HE3	2.52	0.45
13:O:121:PHE:HE1	13:O:151:LEU:HD23	1.82	0.45
13:O:218:LEU:HD23	13:O:219:THR:N	2.31	0.45
13:O:250:ASP:O	13:O:251:MET:C	2.58	0.45
15:U:98:THR:O	15:U:100:ARG:N	2.49	0.45
16:V:159:GLY:O	16:V:160:LYS:HB3	2.17	0.45
1:a:5083:VAL:HG23	4:d:5314:PHE:HE1	1.82	0.45
1:a:5120:LEU:HD23	1:a:5120:LEU:HA	1.80	0.45
1:a:5260:PHE:CE1	1:a:5263:ALA:HB2	2.51	0.45
1:a:5339:PHE:C	15:u:5133:TYR:HE2	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5022:MET:C	2:b:5024:THR:N	2.71	0.45
2:b:5170:GLY:HA3	2:b:5309:TYR:HE1	1.80	0.45
2:b:5180:PRO:CG	2:b:5196:VAL:HG12	2.46	0.45
2:b:5217:ARG:HA	7:h:5020:LYS:CE	2.47	0.45
23:b:6012:CLA:C10	23:b:6023:CLA:C1	2.91	0.45
23:b:6019:CLA:H191	23:b:6021:CLA:C7	2.44	0.45
23:b:6020:CLA:C14	23:b:6021:CLA:CAB	2.95	0.45
23:b:6022:CLA:HMB3	23:b:6022:CLA:CBB	2.45	0.45
3:c:5066:ALA:N	3:c:5119:LEU:CD2	2.80	0.45
3:c:5079:LYS:CG	3:c:5080:PRO:HD2	2.47	0.45
3:c:5132:HIS:HA	3:c:5136:GLY:HA3	1.97	0.45
3:c:5247:GLY:CA	23:c:6030:CLA:HBC2	2.46	0.45
3:c:5379:LYS:CA	3:c:5383:ASP:HB2	2.44	0.45
23:c:6028:CLA:H92	30:c:6056:DGD:HBW1	1.98	0.45
23:c:6029:CLA:H192	23:c:6029:CLA:H152	0.62	0.45
23:c:6032:CLA:HED3	23:c:6032:CLA:C3A	2.38	0.45
4:d:5103:ARG:HG2	5:e:5073:LYS:CD	2.46	0.45
4:d:5186:GLN:NE2	4:d:5322:ASN:ND2	2.64	0.45
13:o:5158:ASN:C	13:o:5158:ASN:HD22	2.24	0.45
15:u:5045:GLU:O	15:u:5045:GLU:HG2	2.16	0.45
17:x:5035:ALA:CA	17:x:5038:ILE:HD11	2.33	0.45
20:z:5001:MET:HE2	20:z:5057:LEU:HD21	1.95	0.45
1:A:214:MET:HE1	24:A:1039:PHO:OBD	2.16	0.45
1:A:328:MET:HB2	4:D:321:LEU:HD22	1.98	0.45
23:A:1003:CLA:H91	23:A:1003:CLA:H112	1.64	0.45
2:B:19:LEU:HD13	2:B:19:LEU:C	2.42	0.45
2:B:67:ALA:O	2:B:68:ARG:C	2.60	0.45
2:B:230:ARG:HG3	2:B:230:ARG:O	2.16	0.45
2:B:280:PHE:CE2	2:B:312:TYR:HD1	2.35	0.45
2:B:334:ASP:O	2:B:432:PHE:CD2	2.70	0.45
2:B:399:VAL:HG13	2:B:417:VAL:CG2	2.46	0.45
23:B:1011:CLA:C2D	23:B:1013:CLA:C3	2.94	0.45
23:B:1023:CLA:H72	26:B:1048:BCR:H343	1.96	0.45
3:C:118:HIS:NE2	23:C:1027:CLA:O1A	2.49	0.45
3:C:297:TYR:HD1	3:C:302:TYR:CE2	2.34	0.45
23:C:1025:CLA:H201	23:C:1031:CLA:H122	1.98	0.45
7:H:12:ARG:NH1	7:H:12:ARG:CB	2.80	0.45
13:O:147:THR:HG1	13:O:149:LYS:H	1.62	0.45
13:O:234:THR:HG21	13:O:236:GLU:HG3	1.98	0.45
1:a:5071:LEU:CD2	14:t:5006:TYR:CD2	2.98	0.45
1:a:5074:GLY:O	1:a:5076:ASN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5135:TYR:O	1:a:5137:LEU:N	2.50	0.45
1:a:5313:VAL:HG11	16:v:5155:LYS:HE2	1.98	0.45
23:a:6006:CLA:H2	23:a:6006:CLA:H71	1.92	0.45
2:b:5024:THR:HG23	23:b:6013:CLA:CAC	2.41	0.45
2:b:5105:PHE:CD2	2:b:5106:LEU:N	2.85	0.45
2:b:5315:ASN:O	2:b:5316:PRO:C	2.59	0.45
2:b:5457:LEU:CG	30:h:6058:DGD:CIA	2.92	0.45
23:b:6017:CLA:HBA2	7:h:5031:MET:SD	2.57	0.45
3:c:5340:TYR:O	3:c:5341:LEU:HD23	2.17	0.45
3:c:5377:LEU:O	3:c:5380:ILE:HG22	2.17	0.45
23:c:6026:CLA:HBA1	23:c:6027:CLA:HMC2	1.97	0.45
4:d:5060:THR:HB	4:d:5082:ALA:N	2.32	0.45
4:d:5087:HIS:CD2	30:h:6058:DGD:O2D	2.70	0.45
4:d:5101:PHE:C	4:d:5101:PHE:HD1	2.22	0.45
4:d:5259:ILE:HD11	14:t:5021:ILE:CG1	2.43	0.45
4:d:5273:PHE:CE2	4:d:5277:THR:HG21	2.51	0.45
4:d:5302:GLU:OE1	13:o:5186:LYS:HD2	2.16	0.45
25:d:6042:PQ9:H392	11:l:5030:LEU:HD12	1.99	0.45
6:f:5037:ILE:HG21	9:j:5028:PHE:CZ	2.51	0.45
26:h:6049:BCR:C23	26:h:6049:BCR:H392	2.47	0.45
13:o:5094:THR:HB	13:o:5134:VAL:HB	1.99	0.45
13:o:5151:LEU:HA	13:o:5171:GLU:O	2.17	0.45
1:A:159:LEU:HD11	30:C:1055:DGD:HA22	1.99	0.45
1:A:257:ARG:HB3	4:D:132:ILE:CG2	2.46	0.45
1:A:260:PHE:HB3	4:D:28:VAL:HB	1.99	0.45
1:A:288:LEU:HD11	3:C:435:PHE:CE2	2.52	0.45
23:A:1006:CLA:HMD3	4:D:182:LEU:HD11	1.99	0.45
2:B:5:TRP:O	2:B:7:ARG:N	2.49	0.45
2:B:6:TYR:O	23:B:1019:CLA:HAA2	2.17	0.45
2:B:18:ARG:HG2	2:B:18:ARG:HH11	1.81	0.45
2:B:201:HIS:CD2	2:B:202:HIS:N	2.85	0.45
2:B:385:ARG:HA	2:B:388:SER:OG	2.17	0.45
23:B:1011:CLA:C2D	23:B:1013:CLA:H43	2.41	0.45
23:B:1019:CLA:H3A	23:B:1019:CLA:CGA	2.30	0.45
23:B:1019:CLA:H61	23:B:1019:CLA:H41	1.34	0.45
23:B:1024:CLA:H143	23:B:1024:CLA:H102	1.99	0.45
3:C:249:ILE:N	3:C:249:ILE:CD1	2.80	0.45
3:C:287:THR:HG23	3:C:427:ALA:O	2.16	0.45
23:C:1026:CLA:HAA1	23:C:1026:CLA:HBD	1.97	0.45
23:C:1031:CLA:HBA1	23:C:1031:CLA:H3A	1.66	0.45
23:C:1034:CLA:H193	30:C:1057:DGD:HAF1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:C:1056:DGD:HBN1	10:K:30:VAL:HG21	1.94	0.45
4:D:156:VAL:C	4:D:157:PHE:CD1	2.95	0.45
5:E:75:GLN:O	5:E:76:VAL:C	2.60	0.45
5:E:81:GLU:OE1	5:E:81:GLU:C	2.60	0.45
23:H:1017:CLA:H92	23:H:1017:CLA:H62	1.81	0.45
8:I:3:THR:O	8:I:6:ILE:CD1	2.64	0.45
10:K:22:VAL:HA	10:K:25:LEU:HB2	1.98	0.45
13:O:145:LEU:N	13:O:145:LEU:CD2	2.79	0.45
16:V:88:ALA:O	16:V:89:THR:HG23	2.16	0.45
31:V:1041:HEM:HHC	31:V:1041:HEM:HBB2	1.98	0.45
1:a:5196:PRO:C	1:a:5199:GLN:HG3	2.42	0.45
1:a:5320:ILE:C	1:a:5322:ASN:N	2.70	0.45
2:b:5003:TYR:CE2	11:l:5011:GLU:CG	2.99	0.45
2:b:5038:GLU:OE1	2:b:5059:VAL:N	2.50	0.45
2:b:5100:LEU:O	2:b:5101:SER:C	2.59	0.45
2:b:5265:PHE:HB2	2:b:5445:ARG:HH11	1.81	0.45
2:b:5281:ILE:CG2	2:b:5306:LEU:HD22	2.47	0.45
3:c:5084:GLN:CB	3:c:5086:LEU:HD13	2.47	0.45
3:c:5114:VAL:O	3:c:5118:HIS:CD2	2.69	0.45
3:c:5418:ASN:HB3	30:c:6057:DGD:HE2	1.97	0.45
3:c:5441:HIS:C	3:c:5441:HIS:CD2	2.94	0.45
3:c:5469:MET:HE2	4:d:5251:ARG:CZ	2.47	0.45
4:d:5114:ILE:O	4:d:5114:ILE:HG22	2.16	0.45
4:d:5125:PHE:O	4:d:5128:ARG:HB3	2.17	0.45
4:d:5139:ARG:HH11	4:d:5139:ARG:HG3	1.81	0.45
4:d:5221:THR:CG2	4:d:5244:TYR:HB2	2.46	0.45
4:d:5262:SER:O	4:d:5263:ASN:HB3	2.17	0.45
4:d:5304:ARG:HG3	4:d:5304:ARG:O	2.17	0.45
8:i:5019:PHE:O	8:i:5023:PHE:HB2	2.17	0.45
13:o:5150:ASN:CG	13:o:5173:ASN:ND2	2.75	0.45
13:o:5251:MET:O	13:o:5253:ALA:N	2.50	0.45
16:v:5064:ALA:O	16:v:5065:SER:C	2.60	0.45
18:y:5024:ARG:HG2	18:y:5024:ARG:HH11	1.82	0.45
1:A:14:TRP:CD1	1:A:18:CYS:SG	3.10	0.45
1:A:93:PHE:CE1	30:C:1055:DGD:HAG2	2.52	0.45
1:A:135:TYR:CD1	3:C:455:PHE:HE1	2.35	0.45
1:A:302:PHE:O	1:A:303:ASN:C	2.60	0.45
2:B:113:TRP:O	2:B:117:TYR:HB2	2.17	0.45
2:B:156:PHE:CB	23:B:1014:CLA:HAC2	2.47	0.45
2:B:191:ASN:ND2	2:B:193:TYR:HD2	2.09	0.45
23:B:1011:CLA:C19	23:H:1017:CLA:C15	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:B:1020:CLA:C14	23:B:1021:CLA:CAB	2.95	0.45
23:B:1021:CLA:H41	23:B:1021:CLA:H61	1.53	0.45
3:C:41:ARG:H	23:C:1035:CLA:HED1	1.81	0.45
3:C:68:THR:C	3:C:70:PHE:H	2.25	0.45
3:C:110:PRO:HA	3:C:113:VAL:HG13	1.99	0.45
3:C:259:TRP:CD1	3:C:259:TRP:H	2.34	0.45
23:C:1029:CLA:CHC	23:C:1029:CLA:H51	2.47	0.45
4:D:53:THR:C	4:D:66:SER:OG	2.60	0.45
4:D:57:SER:HB3	4:D:79:SER:HB2	1.97	0.45
4:D:195:PRO:O	4:D:199:MET:HG3	2.17	0.45
4:D:235:PHE:O	4:D:236:ASN:OD1	2.35	0.45
4:D:300:SER:O	4:D:303:ILE:CD1	2.65	0.45
5:E:35:TRP:HA	6:F:36:ALA:HA	1.98	0.45
5:E:61:ARG:NH1	16:V:153:GLY:HA2	2.32	0.45
5:E:80:LEU:O	5:E:81:GLU:C	2.60	0.45
13:O:51:THR:O	13:O:52:ALA:HB2	2.17	0.45
1:a:5150:PRO:CA	23:a:6003:CLA:H42	2.20	0.45
1:a:5237:TYR:HB2	1:a:5245:THR:HB	1.99	0.45
1:a:5272:HIS:HD2	4:d:5218:VAL:CG2	2.10	0.45
2:b:5013:PRO:HG3	2:b:5130:LEU:CD1	2.46	0.45
2:b:5035:ALA:HB2	2:b:5059:VAL:HG11	1.98	0.45
2:b:5254:TRP:CE3	2:b:5449:THR:HG21	2.52	0.45
2:b:5439:ILE:O	2:b:5440:PHE:O	2.34	0.45
23:b:6012:CLA:HBA2	23:b:6012:CLA:H3A	1.47	0.45
23:b:6018:CLA:H2A	23:b:6018:CLA:O2D	2.16	0.45
23:b:6020:CLA:HMA1	23:b:6020:CLA:CGA	2.35	0.45
3:c:5265:ILE:C	3:c:5267:SER:N	2.75	0.45
3:c:5305:THR:O	3:c:5306:GLY:C	2.60	0.45
30:c:6055:DGD:O1B	30:c:6055:DGD:HB41	2.17	0.45
4:d:5273:PHE:CE2	29:d:6061:MGE:H4B1	2.52	0.45
11:l:5017:LEU:O	11:l:5021:LEU:N	2.47	0.45
11:l:5021:LEU:O	11:l:5022:LEU:C	2.59	0.45
11:l:5026:VAL:O	11:l:5027:LEU:C	2.59	0.45
11:l:5032:SER:HA	11:l:5035:PHE:HD1	1.82	0.45
13:o:5032:THR:O	13:o:5035:ASP:N	2.50	0.45
15:u:5122:VAL:HG12	15:u:5127:ARG:HG3	1.97	0.45
1:A:180:PHE:O	1:A:184:ILE:HG13	2.17	0.44
1:A:202:VAL:O	1:A:206:PHE:N	2.34	0.44
1:A:236:GLY:O	1:A:245:THR:OG1	2.33	0.44
1:A:297:LEU:HD11	3:C:425:TRP:CZ3	2.51	0.44
1:A:324:ALA:CA	4:D:325:ILE:HG23	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:A:1006:CLA:H92	23:A:1006:CLA:H61	1.78	0.44
23:A:1006:CLA:HED1	30:C:1057:DGD:HBH2	1.89	0.44
2:B:66:MET:O	2:B:67:ALA:C	2.60	0.44
2:B:272:ARG:O	2:B:276:ASP:OD2	2.35	0.44
2:B:302:TRP:CE3	2:B:305:ILE:HD12	2.52	0.44
2:B:407:ASN:CG	2:B:408:GLY:N	2.75	0.44
2:B:440:ASP:OD2	2:B:442:ILE:N	2.51	0.44
23:B:1010:CLA:H13	30:H:1058:DGD:HA82	1.97	0.44
23:B:1012:CLA:H62	23:B:1012:CLA:H41	1.65	0.44
23:B:1014:CLA:HAA1	23:B:1014:CLA:CBD	2.47	0.44
4:D:267:LEU:HD23	4:D:268:HIS:HD2	1.82	0.44
4:D:304:ARG:HG2	4:D:311:PHE:CE2	2.51	0.44
7:H:7:LEU:HD23	7:H:7:LEU:C	2.42	0.44
7:H:14:LEU:H	7:H:14:LEU:CD1	2.29	0.44
11:L:25:LEU:HD22	14:T:13:ILE:CD1	2.47	0.44
12:M:11:THR:O	12:M:13:LEU:N	2.50	0.44
13:O:70:CYS:N	13:O:266:TYR:O	2.45	0.44
16:V:48:THR:HB	16:V:51:GLN:H	1.82	0.44
1:a:5036:ILE:CG2	1:a:5125:CYS:SG	3.05	0.44
1:a:5172:MET:O	1:a:5173:PRO:C	2.59	0.44
1:a:5309:ALA:HB3	16:v:5028:GLU:CB	2.47	0.44
23:a:6003:CLA:HBD	23:a:6003:CLA:HAA2	1.99	0.44
25:a:6043:PQ9:H392	4:d:5045:LEU:HG	1.98	0.44
2:b:5015:ARG:HG2	2:b:5015:ARG:NH1	2.32	0.44
2:b:5104:LEU:HD23	26:b:6048:BCR:H352	1.99	0.44
2:b:5353:VAL:HG23	2:b:5353:VAL:O	2.17	0.44
23:b:6011:CLA:C2D	23:b:6013:CLA:C3	2.94	0.44
3:c:5062:PHE:CE1	3:c:5119:LEU:HD11	2.51	0.44
3:c:5224:ILE:HD13	3:c:5224:ILE:N	2.33	0.44
3:c:5318:LEU:HG	3:c:5328:VAL:CG1	2.39	0.44
3:c:5319:ILE:HG22	3:c:5323:LYS:HE3	1.99	0.44
23:c:6025:CLA:C20	23:c:6031:CLA:C12	2.79	0.44
4:d:5024:ARG:CG	4:d:5024:ARG:NH2	2.79	0.44
4:d:5141:TYR:O	4:d:5144:ILE:HG22	2.17	0.44
4:d:5168:PHE:C	4:d:5170:ALA:N	2.76	0.44
10:k:5019:ASP:O	10:k:5020:PRO:C	2.59	0.44
11:l:5030:LEU:C	11:l:5030:LEU:CD2	2.89	0.44
13:o:5048:LEU:O	13:o:5049:ASP:C	2.60	0.44
16:v:5052:TYR:C	16:v:5052:TYR:CD2	2.95	0.44
16:v:5148:GLU:O	16:v:5151:ILE:HB	2.17	0.44
20:z:5001:MET:CE	20:z:5057:LEU:HG	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:PRO:CG	13:O:141:ARG:NH1	2.75	0.44
1:A:131:TRP:C	1:A:131:TRP:CE3	2.96	0.44
1:A:180:PHE:O	1:A:181:ASN:C	2.59	0.44
1:A:252:HIS:ND1	1:A:252:HIS:C	2.74	0.44
1:A:257:ARG:O	4:D:132:ILE:HD13	2.18	0.44
1:A:315:ASN:O	4:D:63:LEU:CD2	2.65	0.44
1:A:327:GLY:O	1:A:330:VAL:HG22	2.17	0.44
23:A:1007:CLA:H11	8:I:9:TYR:CD2	2.52	0.44
24:A:1039:PHO:H91	4:D:153:PHE:CE2	2.51	0.44
2:B:130:GLU:HB2	2:B:131:PRO:HD2	1.98	0.44
3:C:42:LEU:HD13	3:C:151:TRP:CH2	2.52	0.44
3:C:123:ALA:HA	26:K:1052:BCR:C35	2.47	0.44
3:C:146:PHE:CD1	3:C:146:PHE:C	2.95	0.44
3:C:159:THR:O	3:C:160:ILE:C	2.60	0.44
3:C:343:ARG:HA	3:C:348:GLU:O	2.17	0.44
3:C:451:ALA:CA	3:C:456:GLU:HG2	2.46	0.44
3:C:456:GLU:O	3:C:457:LYS:CG	2.65	0.44
23:C:1030:CLA:H142	23:C:1030:CLA:H112	1.84	0.44
4:D:195:PRO:CB	11:L:31:PHE:CE1	2.99	0.44
4:D:261:PHE:CE2	4:D:267:LEU:HA	2.52	0.44
5:E:15:THR:OG1	9:J:10:LEU:CD2	2.65	0.44
12:M:6:LEU:HA	12:M:9:ILE:CD1	2.48	0.44
14:T:15:ALA:C	14:T:17:PHE:N	2.74	0.44
15:U:74:THR:O	15:U:75:LEU:C	2.58	0.44
16:V:81:ARG:O	16:V:85:LEU:HG	2.18	0.44
1:a:5227:THR:CG2	1:a:5232:SER:O	2.60	0.44
1:a:5339:PHE:HB3	1:a:5340:PRO:HD2	1.99	0.44
2:b:5009:LEU:CB	2:b:5016:LEU:HD23	2.40	0.44
2:b:5011:ASN:O	2:b:5013:PRO:CD	2.65	0.44
2:b:5110:TRP:HE3	2:b:5111:HIS:NE2	2.16	0.44
2:b:5207:ILE:O	2:b:5208:ILE:C	2.61	0.44
2:b:5241:ALA:O	2:b:5242:VAL:C	2.59	0.44
2:b:5249:VAL:C	2:b:5251:GLY:H	2.23	0.44
2:b:5432:GLU:O	2:b:5433:THR:C	2.61	0.44
23:b:6022:CLA:O1A	23:b:6022:CLA:C1A	2.65	0.44
23:b:6024:CLA:H102	23:b:6024:CLA:H143	1.99	0.44
3:c:5111:PHE:CD1	3:c:5111:PHE:N	2.85	0.44
3:c:5149:TYR:CD2	3:c:5149:TYR:N	2.85	0.44
3:c:5173:LEU:CD2	3:c:5241:GLY:HA3	2.46	0.44
3:c:5175:LEU:HD12	3:c:5237:HIS:HD2	1.76	0.44
3:c:5220:GLY:C	3:c:5221:GLU:HG2	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5265:ILE:O	3:c:5270:ALA:HB3	2.16	0.44
3:c:5315:MET:HG2	3:c:5392:ALA:HB1	1.99	0.44
3:c:5324:LEU:HD23	15:u:5062:ILE:HG21	1.99	0.44
23:c:6034:CLA:C10	23:c:6034:CLA:O1A	2.66	0.44
26:c:6054:BCR:H371	26:c:6054:BCR:H24C	1.57	0.44
4:d:5049:LEU:HA	4:d:5052:THR:HB	1.99	0.44
23:d:6005:CLA:C19	24:d:6038:PHO:H92	2.45	0.44
13:o:5241:PHE:CD1	13:o:5241:PHE:C	2.95	0.44
20:z:5002:THR:O	20:z:5005:PHE:HB3	2.18	0.44
2:B:30:VAL:HG12	23:B:1013:CLA:CMD	2.47	0.44
2:B:54:PRO:HD2	2:B:57:ARG:CG	2.47	0.44
2:B:257:TRP:NE1	2:B:273:TYR:OH	2.51	0.44
2:B:381:ILE:HA	2:B:382:PRO:HD3	1.71	0.44
2:B:422:ARG:NH1	2:B:422:ARG:HB3	2.33	0.44
2:B:475:PHE:CD1	4:D:140:PRO:HD3	2.52	0.44
23:B:1012:CLA:CAA	23:B:1012:CLA:CED	2.40	0.44
23:B:1022:CLA:HMB1	26:B:1045:BCR:C40	2.47	0.44
3:C:53:HIS:CB	23:C:1036:CLA:CMD	2.91	0.44
3:C:439:VAL:HG22	23:C:1032:CLA:HBC1	1.98	0.44
4:D:29:PHE:HE2	4:D:132:ILE:HG12	1.82	0.44
23:D:1008:CLA:H91	17:X:30:LEU:HD23	1.98	0.44
5:E:59:GLU:O	5:E:60:GLN:C	2.59	0.44
10:K:26:PRO:C	10:K:28:ILE:N	2.75	0.44
12:M:23:ILE:O	12:M:27:VAL:HG23	2.16	0.44
12:M:31:SER:C	12:M:33:GLN:H	2.25	0.44
13:O:65:ARG:NE	13:O:110:GLU:N	2.66	0.44
13:O:80:GLU:O	13:O:82:PRO:HD3	2.18	0.44
14:T:15:ALA:C	14:T:17:PHE:H	2.26	0.44
15:U:45:GLU:O	15:U:45:GLU:HG2	2.17	0.44
16:V:105:PRO:CG	16:V:115:ALA:CA	2.93	0.44
16:V:105:PRO:HG2	16:V:115:ALA:CA	2.46	0.44
16:V:133:LEU:HD12	16:V:133:LEU:N	2.29	0.44
17:X:24:LEU:O	17:X:28:VAL:N	2.34	0.44
1:a:5030:VAL:O	1:a:5031:GLY:C	2.60	0.44
1:a:5113:GLN:HA	1:a:5116:ILE:HG22	1.98	0.44
1:a:5215:HIS:HE1	4:d:5268:HIS:NE2	2.16	0.44
1:a:5251:ALA:O	1:a:5252:HIS:C	2.60	0.44
1:a:5273:PHE:CE2	4:d:5219:GLU:N	2.86	0.44
1:a:5304:HIS:ND1	3:c:5414:ILE:CD1	2.80	0.44
1:a:5326:LEU:HD21	3:c:5412:THR:OG1	2.17	0.44
2:b:5121:ARG:N	2:b:5121:ARG:HD2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5404:ASN:CG	2:b:5405:GLY:N	2.76	0.44
23:b:6015:CLA:C18	29:b:6060:MGE:H8A2	2.45	0.44
23:b:6020:CLA:HED2	23:b:6020:CLA:CAD	2.47	0.44
3:c:5069:LEU:HD21	3:c:5116:VAL:N	2.31	0.44
3:c:5377:LEU:HD23	13:o:5106:GLN:HB3	2.00	0.44
3:c:5449:ARG:NE	23:c:6029:CLA:HED2	2.32	0.44
3:c:5464:GLU:HG3	3:c:5464:GLU:O	2.18	0.44
23:c:6025:CLA:H172	23:c:6031:CLA:HMB2	1.98	0.44
23:c:6033:CLA:C5	23:c:6033:CLA:O2A	2.66	0.44
23:c:6034:CLA:HHD	23:c:6034:CLA:HBC2	1.86	0.44
4:d:5184:PHE:O	4:d:5188:PHE:CD1	2.70	0.44
4:d:5186:GLN:HE22	4:d:5322:ASN:HD21	1.65	0.44
4:d:5195:PRO:HG3	11:l:5034:TYR:CE2	2.51	0.44
25:d:6042:PQ9:H202	25:d:6042:PQ9:H162	1.79	0.44
5:e:5019:TYR:C	5:e:5021:VAL:N	2.73	0.44
7:h:5006:TRP:O	7:h:5007:LEU:C	2.61	0.44
7:h:5037:LEU:N	7:h:5037:LEU:HD12	2.32	0.44
9:j:5034:ALA:C	9:j:5038:SER:OG	2.60	0.44
13:o:5141:ARG:NH1	13:o:5141:ARG:HG3	2.33	0.44
15:u:5072:TYR:O	15:u:5073:PRO:C	2.59	0.44
16:v:5120:SER:HA	16:v:5130:MET:CE	2.38	0.44
1:A:36:ILE:HD13	8:I:19:PHE:HB2	2.00	0.44
1:A:38:ILE:HG21	26:A:1044:BCR:H333	2.00	0.44
1:A:65:GLU:O	1:A:65:GLU:CG	2.62	0.44
2:B:397:VAL:C	2:B:398:THR:HG23	2.43	0.44
23:B:1012:CLA:H92	23:B:1018:CLA:H61	2.00	0.44
23:B:1021:CLA:H91	23:B:1021:CLA:H112	1.79	0.44
3:C:221:GLU:HA	3:C:221:GLU:OE1	2.18	0.44
23:C:1025:CLA:OBD	23:C:1025:CLA:CED	2.66	0.44
23:C:1035:CLA:H91	26:K:1052:BCR:H383	1.98	0.44
5:E:9:PRO:HD3	6:F:13:TYR:CD1	2.52	0.44
6:F:28:VAL:O	6:F:31:ILE:HG22	2.17	0.44
26:H:1049:BCR:C23	26:H:1049:BCR:H392	2.47	0.44
8:I:7:THR:OG1	8:I:8:VAL:N	2.50	0.44
11:L:31:PHE:O	11:L:35:PHE:CD1	2.70	0.44
13:O:179:THR:CG2	13:O:180:ALA:H	2.29	0.44
14:T:22:PHE:CD1	26:b:6048:BCR:H282	2.53	0.44
15:U:57:LEU:HD13	15:U:91:VAL:CG2	2.48	0.44
1:a:5040:THR:HG21	1:a:5122:GLY:CA	2.47	0.44
1:a:5063:ILE:CG1	1:a:5065:GLU:HG2	2.45	0.44
1:a:5195:HIS:ND1	1:a:5197:PHE:HB2	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5118:GLU:HB3	7:h:5005:THR:CG2	2.47	0.44
2:b:5162:GLY:HA3	2:b:5176:GLN:C	2.42	0.44
2:b:5226:LEU:C	2:b:5228:MET:H	2.23	0.44
2:b:5447:TRP:CZ3	23:b:6015:CLA:H2	2.52	0.44
23:b:6015:CLA:H62	23:b:6015:CLA:H41	1.72	0.44
3:c:5154:LYS:NZ	3:c:5261:ARG:CD	2.79	0.44
3:c:5394:GLU:OE1	16:v:5127:PHE:CE2	2.70	0.44
23:c:6037:CLA:C10	23:c:6037:CLA:C14	2.85	0.44
4:d:5134:ARG:CA	4:d:5134:ARG:NE	2.75	0.44
4:d:5160:TYR:O	4:d:5161:PRO:C	2.58	0.44
13:o:5145:LEU:C	13:o:5245:GLN:HE22	2.26	0.44
13:o:5225:LEU:N	13:o:5225:LEU:CD1	2.80	0.44
15:u:5054:LYS:HB3	15:u:5111:HIS:O	2.17	0.44
16:v:5071:ILE:CD1	16:v:5079:ASP:HB3	2.47	0.44
20:z:5058:ASN:ND2	26:z:6053:BCR:HC22	2.32	0.44
2:B:233:ASN:C	2:B:235:GLU:H	2.25	0.44
2:B:370:LEU:HD12	2:B:392:PHE:CZ	2.53	0.44
23:B:1016:CLA:HMA1	4:D:130:PHE:CE1	2.52	0.44
23:B:1021:CLA:O2A	23:B:1021:CLA:HMA3	2.17	0.44
3:C:36:TRP:CD1	3:C:37:ALA:H	2.32	0.44
3:C:126:GLY:O	3:C:129:GLY:N	2.44	0.44
3:C:128:GLY:CA	23:C:1037:CLA:HAC1	2.45	0.44
3:C:175:LEU:O	3:C:176:VAL:C	2.60	0.44
3:C:217:PRO:O	30:C:1055:DGD:HG11	2.17	0.44
26:C:1054:BCR:H371	26:C:1054:BCR:H24C	1.57	0.44
4:D:204:VAL:O	4:D:204:VAL:CG1	2.64	0.44
5:E:16:SER:HB3	5:E:19:TYR:CB	2.47	0.44
12:M:19:SER:O	12:M:20:VAL:C	2.60	0.44
12:M:25:LEU:O	12:M:28:GLN:HG3	2.18	0.44
13:O:215:ARG:HH11	13:O:215:ARG:CG	2.24	0.44
18:Y:38:LEU:HA	18:Y:41:VAL:HG12	1.99	0.44
1:a:5041:LEU:HD22	1:a:5122:GLY:HA3	1.99	0.44
1:a:5215:HIS:O	1:a:5215:HIS:ND1	2.48	0.44
2:b:5110:TRP:HD1	26:b:6048:BCR:H373	1.81	0.44
2:b:5172:THR:O	2:b:5173:GLY:C	2.60	0.44
2:b:5451:ALA:CB	23:b:6015:CLA:CBB	2.95	0.44
23:b:6010:CLA:CAA	23:b:6010:CLA:CBD	2.94	0.44
23:b:6012:CLA:CED	23:b:6013:CLA:H11	2.46	0.44
23:b:6018:CLA:H102	23:b:6018:CLA:H62	1.27	0.44
3:c:5276:LEU:C	3:c:5278:ALA:N	2.76	0.44
3:c:5354:GLU:O	3:c:5356:MET:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:c:6029:CLA:CHC	23:c:6029:CLA:H51	2.47	0.44
23:c:6032:CLA:HED3	23:c:6032:CLA:CMA	2.48	0.44
4:d:5153:PHE:HD1	4:d:5154:VAL:N	2.16	0.44
4:d:5210:LEU:HD11	4:d:5274:VAL:HG21	1.99	0.44
25:d:6042:PQ9:H142	29:d:6062:MGE:H3B2	1.98	0.44
11:l:5025:LEU:CD2	14:t:5013:ILE:HG12	2.47	0.44
13:o:5044:LYS:HG2	13:o:5072:GLN:OE1	2.17	0.44
15:u:5092:LEU:HD12	15:u:5092:LEU:N	2.26	0.44
16:v:5048:THR:H	16:v:5051:GLN:HG2	1.81	0.44
17:x:5013:THR:CG2	17:x:5015:SER:H	2.30	0.44
20:z:5016:SER:O	20:z:5019:MET:N	2.51	0.44
1:A:76:ASN:HB3	1:A:79:THR:CG2	2.48	0.44
1:A:97:TRP:HA	8:I:1:MET:CG	2.48	0.44
1:A:254:TYR:OH	4:D:129:GLN:HB3	2.17	0.44
1:A:333:GLU:C	1:A:334:ARG:O	2.59	0.44
2:B:133:LEU:CB	2:B:138:MET:HE1	2.46	0.44
2:B:215:PHE:CZ	2:B:219:VAL:HG21	2.53	0.44
2:B:223:GLN:CG	7:H:24:GLY:CA	2.94	0.44
2:B:224:ARG:O	2:B:228:ALA:HB2	2.17	0.44
2:B:257:TRP:CH2	4:D:291:LEU:HA	2.52	0.44
2:B:373:LYS:CG	2:B:374:ASN:N	2.81	0.44
2:B:442:ILE:HG22	2:B:442:ILE:O	2.17	0.44
2:B:464:PHE:CD1	23:B:1019:CLA:CBC	3.01	0.44
2:B:475:PHE:HD1	4:D:140:PRO:HD3	1.81	0.44
2:B:482:ILE:HD13	4:D:138:VAL:HG12	1.98	0.44
23:B:1021:CLA:H62	29:B:1060:MGE:CDB	2.22	0.44
23:C:1026:CLA:HBB2	23:C:1034:CLA:H11	1.98	0.44
30:C:1055:DGD:HB32	30:C:1055:DGD:C7B	2.45	0.44
4:D:40:CYS:C	4:D:42:TYR:N	2.74	0.44
4:D:92:LEU:HD13	4:D:92:LEU:O	2.18	0.44
7:H:43:LEU:HD23	7:H:43:LEU:C	2.42	0.44
7:H:49:TYR:CD1	30:H:1058:DGD:O1B	2.70	0.44
11:L:17:LEU:C	11:L:17:LEU:HD12	2.43	0.44
13:O:41:LEU:C	13:O:41:LEU:HD12	2.43	0.44
1:a:5056:PRO:O	1:a:5058:VAL:HG23	2.17	0.44
1:a:5076:ASN:HB3	1:a:5079:THR:CG2	2.46	0.44
1:a:5172:MET:HB2	1:a:5182:PHE:CE2	2.52	0.44
2:b:5048:VAL:CG1	2:b:5049:LEU:HG	2.46	0.44
2:b:5086:GLY:O	2:b:5088:TRP:N	2.50	0.44
2:b:5103:LEU:CD1	26:b:6048:BCR:C13	2.62	0.44
2:b:5344:ARG:HG2	2:b:5349:GLU:C	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5403:LEU:HD23	2:b:5403:LEU:HA	1.88	0.44
2:b:5430:ASP:OD2	2:b:5433:THR:OG1	2.28	0.44
23:b:6013:CLA:HBB2	23:b:6023:CLA:C4	2.28	0.44
3:c:5163:PHE:CD2	23:c:6036:CLA:HBB1	2.52	0.44
23:c:6025:CLA:H201	23:c:6031:CLA:H122	1.98	0.44
23:c:6026:CLA:HBA1	23:c:6027:CLA:C2C	2.48	0.44
23:c:6027:CLA:HMA3	23:c:6027:CLA:HAA2	1.30	0.44
4:d:5021:TRP:CG	4:d:5022:LEU:N	2.85	0.44
4:d:5167:TRP:O	4:d:5170:ALA:HB3	2.18	0.44
4:d:5189:HIS:CG	4:d:5289:LEU:HD12	2.53	0.44
7:h:5049:TYR:CG	30:h:6058:DGD:O1B	2.70	0.44
12:m:5013:LEU:O	12:m:5015:VAL:N	2.51	0.44
13:o:5071:LEU:HD21	13:o:5223:ILE:HD11	1.98	0.44
13:o:5127:ILE:HD12	13:o:5127:ILE:H	1.82	0.44
13:o:5172:PHE:HE2	13:o:5223:ILE:HB	1.83	0.44
15:u:5128:TYR:CD1	15:u:5128:TYR:N	2.86	0.44
18:y:5011:GLY:O	18:y:5015:PRO:HD3	2.17	0.44
20:z:5030:PRO:HA	20:z:5033:TRP:CH2	2.53	0.44
1:A:43:ALA:HA	26:A:1044:BCR:C15	2.48	0.44
1:A:63:ILE:HG22	3:C:335:THR:HG21	2.00	0.44
1:A:258:LEU:C	4:D:128:ARG:HH12	2.25	0.44
1:A:322:ASN:O	1:A:325:ASN:HB2	2.17	0.44
1:A:328:MET:CB	4:D:325:ILE:CG1	2.92	0.44
2:B:297:THR:HG22	2:B:300:GLU:HB2	1.99	0.44
2:B:357:ARG:O	2:B:425:ILE:CD1	2.65	0.44
2:B:384:ARG:NH1	4:D:348:ARG:CD	2.81	0.44
23:B:1012:CLA:O1A	23:B:1013:CLA:HBA1	2.17	0.44
23:B:1023:CLA:O2D	23:B:1023:CLA:CBA	2.66	0.44
3:C:48:LYS:HD3	3:C:132:HIS:O	2.17	0.44
3:C:333:GLY:O	13:O:179:THR:OG1	2.35	0.44
4:D:155:SER:HA	4:D:159:ILE:HG13	2.00	0.44
4:D:321:LEU:O	4:D:322:ASN:C	2.61	0.44
13:O:133:THR:CG2	13:O:134:VAL:N	2.80	0.44
14:T:9:ILE:O	14:T:13:ILE:HG12	2.18	0.44
1:a:5149:ALA:HB2	1:a:5280:VAL:HA	2.00	0.44
2:b:5036:LEU:O	2:b:5039:LEU:HB3	2.18	0.44
2:b:5239:ILE:HD12	2:b:5463:HIS:HA	1.98	0.44
2:b:5335:GLN:OE1	2:b:5335:GLN:HA	2.17	0.44
2:b:5359:PHE:HZ	4:d:5164:GLN:HG2	1.80	0.44
23:b:6022:CLA:HMB1	26:b:6045:BCR:C40	2.47	0.44
3:c:5167:VAL:HG13	23:c:6036:CLA:H93	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5357:ARG:HH11	3:c:5357:ARG:CB	2.31	0.44
3:c:5472:LEU:O	3:c:5473:ASP:HB2	2.17	0.44
4:d:5071:CYS:HB3	4:d:5076:VAL:CG2	2.44	0.44
4:d:5149:PRO:CA	4:d:5152:VAL:HG12	2.46	0.44
10:k:5035:LEU:CD2	26:k:6052:BCR:C40	2.95	0.44
12:m:5017:VAL:N	12:m:5018:PRO:HD2	2.33	0.44
13:o:5149:LYS:O	13:o:5150:ASN:HB3	2.18	0.44
13:o:5270:GLU:HA	13:o:5271:PRO:HD3	1.88	0.44
14:t:5012:CYS:O	14:t:5016:LEU:HB2	2.18	0.44
20:z:5005:PHE:CE1	20:z:5054:VAL:HG13	2.52	0.44
1:A:15:GLU:O	1:A:19:ASN:ND2	2.50	0.44
2:B:118:TRP:CD1	2:B:119:ASP:H	2.35	0.44
2:B:143:LEU:O	2:B:146:ALA:HB3	2.18	0.44
2:B:191:ASN:C	2:B:193:TYR:N	2.75	0.44
23:B:1011:CLA:H2A	23:B:1011:CLA:O1D	2.18	0.44
23:B:1018:CLA:H102	23:B:1018:CLA:H62	1.27	0.44
23:B:1024:CLA:HMB3	26:B:1048:BCR:H351	1.99	0.44
3:C:46:SER:H	3:C:140:LEU:HD22	1.83	0.44
3:C:71:GLU:O	3:C:74:HIS:N	2.49	0.44
3:C:289:PHE:CE2	3:C:293:ASN:ND2	2.84	0.44
23:C:1035:CLA:H102	26:K:1052:BCR:H403	1.95	0.44
4:D:52:THR:HG22	4:D:67:TYR:CZ	2.52	0.44
8:I:27:ASP:O	8:I:29:ALA:N	2.51	0.44
13:O:65:ARG:NH1	13:O:66:ILE:N	2.66	0.44
13:O:127:ILE:N	13:O:127:ILE:CD1	2.50	0.44
15:U:56:ASP:OD1	15:U:56:ASP:C	2.60	0.44
16:V:79:ASP:OD1	16:V:84:THR:HG21	2.17	0.44
17:X:29:VAL:O	17:X:33:THR:HG22	2.17	0.44
18:Y:21:GLN:O	18:Y:24:MET:N	2.50	0.44
1:a:5210:LEU:HD22	24:a:6039:PHO:NB	2.33	0.44
1:a:5284:TRP:CZ2	3:c:5439:VAL:HG21	2.53	0.44
2:b:5032:GLY:O	2:b:5036:LEU:N	2.40	0.44
2:b:5087:PHE:CE1	2:b:5095:LEU:HD23	2.46	0.44
2:b:5190:TYR:HE1	2:b:5256:GLY:HA3	1.80	0.44
2:b:5360:PHE:CD1	4:d:5326:ARG:HD2	2.44	0.44
23:b:6011:CLA:H121	26:h:6049:BCR:H313	2.00	0.44
23:b:6017:CLA:H141	23:b:6017:CLA:H162	1.83	0.44
23:b:6020:CLA:H193	23:b:6020:CLA:H161	1.68	0.44
3:c:5033:PHE:CZ	3:c:5040:ALA:HB3	2.46	0.44
3:c:5205:ASP:O	3:c:5209:ILE:CD1	2.66	0.44
3:c:5205:ASP:O	3:c:5209:ILE:HD13	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5247:GLY:HA2	23:c:6030:CLA:HBC2	1.99	0.44
3:c:5346:THR:O	3:c:5346:THR:CG2	2.66	0.44
3:c:5369:LEU:O	3:c:5369:LEU:CD1	2.66	0.44
3:c:5414:ILE:CG1	3:c:5415:ASN:H	2.28	0.44
4:d:5076:VAL:CG1	4:d:5077:ALA:N	2.81	0.44
5:e:5023:HIS:NE2	31:e:6040:HEM:C1C	2.85	0.44
7:h:5049:TYR:CD2	30:h:6058:DGD:O1B	2.70	0.44
16:v:5050:LYS:O	16:v:5052:TYR:N	2.51	0.44
20:z:5051:VAL:CG1	20:z:5052:LEU:N	2.80	0.44
1:A:188:ALA:HB2	1:A:328:MET:CG	2.36	0.44
1:A:323:ARG:NH1	1:A:323:ARG:CG	2.76	0.44
1:A:339:PHE:CD2	28:A:1065:BR:BR	3.25	0.44
2:B:152:GLY:O	23:B:1014:CLA:HMC1	2.15	0.44
2:B:153:PHE:CD2	2:B:202:HIS:ND1	2.84	0.44
2:B:333:GLY:O	2:B:441:GLY:N	2.51	0.44
2:B:488:PRO:HD2	2:B:489:GLU:OE2	2.18	0.44
23:B:1020:CLA:O2A	23:B:1020:CLA:C5	2.45	0.44
29:B:1060:MGE:H4B1	29:B:1060:MGE:H7B2	1.71	0.44
3:C:55:ALA:CB	26:K:1052:BCR:H371	2.44	0.44
3:C:160:ILE:HG22	3:C:164:HIS:CE1	2.52	0.44
3:C:259:TRP:CE3	3:C:260:ALA:HB2	2.52	0.44
3:C:410:VAL:O	3:C:411:ALA:C	2.60	0.44
23:C:1033:CLA:C5	23:C:1033:CLA:O2A	2.66	0.44
23:C:1036:CLA:H161	23:C:1036:CLA:H202	1.69	0.44
4:D:43:LEU:HD22	4:D:43:LEU:N	2.18	0.44
4:D:89:LEU:HA	4:D:112:THR:HG21	1.99	0.44
4:D:103:ARG:NH1	4:D:106:GLN:OE1	2.50	0.44
4:D:322:ASN:OD1	4:D:322:ASN:N	2.49	0.44
7:H:21:VAL:HG12	7:H:22:ALA:N	2.33	0.44
7:H:35:MET:HG2	26:H:1049:BCR:C33	2.20	0.44
10:K:39:VAL:CB	18:Y:36:ILE:HD11	2.48	0.44
15:U:82:ASN:CB	15:U:85:TYR:OH	2.60	0.44
15:U:100:ARG:O	15:U:104:ILE:HG13	2.18	0.44
16:V:102:MET:CE	16:V:141:ILE:HB	2.45	0.44
16:V:134:THR:O	16:V:137:ASP:HB2	2.17	0.44
1:a:5038:ILE:HG22	1:a:5039:PRO:N	2.33	0.44
1:a:5039:PRO:HA	26:a:6044:BCR:H10C	2.00	0.44
1:a:5065:GLU:O	1:a:5065:GLU:CG	2.64	0.44
1:a:5181:ASN:CA	4:d:5318:ASN:OD1	2.66	0.44
1:a:5209:ALA:O	1:a:5210:LEU:C	2.61	0.44
1:a:5273:PHE:CE2	4:d:5222:LEU:CD2	3.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:a:6006:CLA:HED1	30:c:6057:DGD:HBH2	1.89	0.44
2:b:5024:THR:CG2	23:b:6013:CLA:HAC2	2.38	0.44
2:b:5110:TRP:CE3	2:b:5111:HIS:CE1	3.06	0.44
2:b:5234:VAL:HG22	23:b:6020:CLA:HMD1	2.00	0.44
2:b:5358:ALA:O	2:b:5360:PHE:N	2.50	0.44
23:b:6020:CLA:H141	23:b:6021:CLA:HBB2	2.00	0.44
23:b:6023:CLA:C4C	23:b:6024:CLA:CBC	2.83	0.44
3:c:5153:ASP:CG	3:c:5156:LYS:CB	2.87	0.44
3:c:5166:ILE:HD11	3:c:5248:GLY:HA3	2.00	0.44
3:c:5325:GLY:C	15:u:5128:TYR:CE2	2.95	0.44
3:c:5371:GLY:HA3	3:c:5376:ASP:HB2	1.99	0.44
3:c:5425:TRP:CZ2	23:c:6028:CLA:O1A	2.71	0.44
3:c:5449:ARG:NE	23:c:6029:CLA:CED	2.80	0.44
4:d:5055:VAL:CG1	4:d:5105:CYS:SG	3.06	0.44
4:d:5060:THR:HA	4:d:5082:ALA:HB2	1.99	0.44
4:d:5171:PRO:HG3	4:d:5181:PHE:CZ	2.53	0.44
4:d:5206:GLY:O	4:d:5210:LEU:HG	2.18	0.44
24:d:6038:PHO:H143	24:d:6038:PHO:H101	1.93	0.44
9:j:5034:ALA:O	9:j:5035:GLY:O	2.35	0.44
17:x:5032:LEU:O	17:x:5036:VAL:HB	2.18	0.44
20:z:5046:LEU:O	20:z:5050:LEU:HB2	2.17	0.44
1:A:48:PHE:C	1:A:48:PHE:CD1	2.96	0.43
1:A:113:GLN:CA	1:A:116:ILE:HG22	2.45	0.43
1:A:200:LEU:HD22	1:A:285:PHE:HD1	1.83	0.43
1:A:237:TYR:CD1	4:D:264:LYS:HG2	2.53	0.43
1:A:302:PHE:O	1:A:305:SER:HB3	2.18	0.43
23:A:1007:CLA:H3A	23:A:1007:CLA:HBA1	1.60	0.43
2:B:165:GLY:HA3	2:B:180:PRO:N	2.32	0.43
2:B:191:ASN:O	2:B:193:TYR:N	2.50	0.43
2:B:237:VAL:HG22	23:B:1020:CLA:CMD	2.48	0.43
2:B:280:PHE:CD1	2:B:312:TYR:HB3	2.52	0.43
23:B:1009:CLA:H62	23:B:1009:CLA:H2	1.70	0.43
23:B:1021:CLA:C19	29:B:1060:MGE:H132	2.46	0.43
3:C:45:LEU:HD11	3:C:139:THR:HG23	2.00	0.43
3:C:71:GLU:HB3	3:C:89:ILE:CD1	2.48	0.43
3:C:330:SER:HB2	13:O:149:LYS:HZ3	1.83	0.43
3:C:436:PHE:HA	3:C:439:VAL:HG12	2.00	0.43
4:D:21:TRP:O	4:D:24:ARG:HB2	2.18	0.43
4:D:88:SER:HA	7:H:50:ASN:HD21	1.81	0.43
4:D:196:PHE:CD1	4:D:196:PHE:N	2.85	0.43
6:F:41:GLN:NE2	9:J:27:LEU:O	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:H:1017:CLA:H62	23:H:1017:CLA:H41	1.79	0.43
9:J:20:GLY:O	9:J:24:ILE:HB	2.18	0.43
9:J:30:TYR:CD2	9:J:31:GLY:N	2.85	0.43
11:L:29:LEU:HD13	14:T:9:ILE:HG22	2.00	0.43
13:O:56:TYR:OH	13:O:64:TYR:HE2	2.00	0.43
13:O:145:LEU:O	13:O:147:THR:HG22	2.18	0.43
26:T:6046:BCR:C8	26:T:6046:BCR:H321	2.48	0.43
15:U:53:GLU:HG2	15:U:54:LYS:HG3	1.99	0.43
1:a:5076:ASN:OD1	11:l:5033:SER:HB3	2.18	0.43
1:a:5126:TYR:OH	4:d:5257:PHE:HB2	2.16	0.43
1:a:5131:TRP:C	1:a:5131:TRP:CE3	2.96	0.43
1:a:5143:ILE:HD11	4:d:5217:THR:HA	1.99	0.43
1:a:5183:MET:C	23:a:6003:CLA:CBC	2.91	0.43
2:b:5124:ARG:CZ	2:b:5124:ARG:CB	2.95	0.43
2:b:5294:THR:C	2:b:5296:GLU:N	2.75	0.43
2:b:5382:ARG:O	2:b:5383:ALA:CB	2.63	0.43
2:b:5394:VAL:CG2	2:b:5395:THR:N	2.80	0.43
23:b:6009:CLA:H62	23:b:6009:CLA:H2	1.70	0.43
23:b:6014:CLA:HAA1	23:b:6014:CLA:CBD	2.47	0.43
23:b:6015:CLA:H142	23:b:6015:CLA:H111	1.59	0.43
23:b:6021:CLA:C19	29:b:6060:MGE:H132	2.45	0.43
3:c:5172:ALA:HB1	3:c:5240:ILE:HG23	2.00	0.43
3:c:5318:LEU:HD23	3:c:5318:LEU:C	2.43	0.43
3:c:5435:PHE:O	3:c:5437:PHE:N	2.51	0.43
23:c:6025:CLA:OBD	23:c:6025:CLA:CED	2.66	0.43
23:c:6026:CLA:HMB1	23:c:6026:CLA:CBB	2.40	0.43
4:d:5308:ASP:C	4:d:5310:GLU:N	2.76	0.43
13:o:5172:PHE:CD1	13:o:5172:PHE:C	2.96	0.43
13:o:5172:PHE:CE2	13:o:5223:ILE:HB	2.53	0.43
13:o:5265:PHE:HD1	13:o:5266:TYR:N	2.13	0.43
16:v:5071:ILE:O	16:v:5071:ILE:CG2	2.65	0.43
20:z:5009:LEU:HA	20:z:5054:VAL:HG21	1.99	0.43
24:A:1039:PHO:HAA2	4:D:125:PHE:CZ	2.52	0.43
2:B:72:THR:HA	2:B:93:PHE:CZ	2.54	0.43
2:B:86:ILE:HG13	2:B:87:ASP:N	2.30	0.43
2:B:95:GLY:O	2:B:96:VAL:C	2.61	0.43
2:B:233:ASN:O	2:B:235:GLU:N	2.51	0.43
2:B:368:VAL:HG13	2:B:381:ILE:H	1.84	0.43
2:B:448:ARG:HH11	2:B:448:ARG:CG	2.31	0.43
23:B:1020:CLA:H141	23:B:1021:CLA:HBB2	2.00	0.43
3:C:53:HIS:CE1	23:C:1033:CLA:H162	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:88:LEU:HG	23:C:1027:CLA:HBC3	1.99	0.43
3:C:183:GLY:O	3:C:184:GLY:O	2.35	0.43
3:C:260:ALA:O	3:C:261:ARG:C	2.61	0.43
23:C:1032:CLA:CAB	23:C:1034:CLA:HMC3	2.47	0.43
23:C:1036:CLA:H62	23:C:1036:CLA:H41	1.72	0.43
4:D:33:SER:OG	4:D:128:ARG:HD3	2.18	0.43
4:D:34:GLY:O	4:D:38:PHE:HB2	2.18	0.43
4:D:92:LEU:HD13	4:D:92:LEU:C	2.44	0.43
4:D:175:VAL:C	4:D:177:ALA:H	2.26	0.43
4:D:175:VAL:O	4:D:176:ALA:C	2.60	0.43
4:D:183:LEU:O	4:D:184:PHE:C	2.60	0.43
4:D:292:ASN:OD1	4:D:294:ARG:NH1	2.47	0.43
5:E:83:LEU:CD2	5:E:84:LYS:N	2.81	0.43
9:J:19:MET:CA	9:J:22:ILE:HG22	2.46	0.43
10:K:28:ILE:O	10:K:31:LEU:HB2	2.18	0.43
11:L:29:LEU:HD13	14:T:9:ILE:CG2	2.48	0.43
13:O:46:PRO:HG2	13:O:266:TYR:CE2	2.53	0.43
13:O:144:LEU:HD23	13:O:144:LEU:N	2.33	0.43
13:O:150:ASN:O	13:O:151:LEU:C	2.60	0.43
16:V:109:ASP:OD2	16:V:109:ASP:C	2.61	0.43
1:a:5215:HIS:CE1	4:d:5268:HIS:NE2	2.85	0.43
1:a:5239:PHE:CZ	4:d:5247:VAL:HG13	2.53	0.43
1:a:5269:ARG:HH21	4:d:5243:THR:HG21	1.74	0.43
24:a:6039:PHO:C4	4:d:5041:ALA:HB1	2.46	0.43
26:a:6044:BCR:C40	26:a:6044:BCR:H372	2.27	0.43
2:b:5008:VAL:HB	11:l:5006:ASN:O	2.18	0.43
2:b:5119:LEU:HG	7:h:5011:LEU:CB	2.48	0.43
2:b:5124:ARG:HB2	2:b:5124:ARG:HH11	1.83	0.43
2:b:5319:GLY:O	2:b:5323:ARG:NH1	2.51	0.43
2:b:5382:ARG:HB2	13:o:5191:ALA:O	2.18	0.43
23:b:6010:CLA:H12	7:h:5049:TYR:CD2	2.53	0.43
23:b:6012:CLA:O1A	23:b:6013:CLA:CBA	2.66	0.43
23:b:6024:CLA:H92	23:b:6024:CLA:H62	1.67	0.43
29:b:6060:MGE:H6D2	4:d:5269:PHE:CE1	2.53	0.43
3:c:5048:LYS:O	3:c:5052:ALA:HB2	2.18	0.43
3:c:5332:GLN:O	3:c:5332:GLN:HG2	2.18	0.43
23:c:6025:CLA:H41	23:c:6025:CLA:H61	1.86	0.43
23:c:6036:CLA:C19	26:z:6053:BCR:H372	2.47	0.43
4:d:5122:LEU:HD12	4:d:5122:LEU:HA	1.71	0.43
4:d:5232:PHE:CD2	4:d:5232:PHE:O	2.71	0.43
4:d:5235:PHE:O	4:d:5236:ASN:CB	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i:5014:PHE:CE2	8:i:5015:PHE:CE1	3.06	0.43
10:k:5027:VAL:O	10:k:5027:VAL:HG22	2.17	0.43
13:o:5153:ALA:HB1	13:o:5168:PHE:HB3	1.99	0.43
15:u:5050:ALA:HB1	15:u:5113:THR:HG21	1.99	0.43
16:v:5120:SER:O	16:v:5121:LEU:C	2.59	0.43
16:v:5148:GLU:HA	16:v:5148:GLU:OE2	2.17	0.43
17:x:5033:THR:CG2	17:x:5034:PHE:N	2.81	0.43
20:z:5012:LEU:O	20:z:5016:SER:OG	2.36	0.43
20:z:5029:SER:HA	20:z:5030:PRO:HD3	1.77	0.43
1:A:111:PRO:O	1:A:112:TYR:C	2.61	0.43
1:A:131:TRP:CZ3	1:A:132:GLU:HA	2.53	0.43
1:A:131:TRP:CH2	23:C:1029:CLA:HMA3	2.53	0.43
1:A:151:LEU:HD11	1:A:155:PHE:HE2	1.83	0.43
1:A:277:ALA:O	1:A:281:VAL:HB	2.17	0.43
1:A:306:VAL:HG23	1:A:316:THR:HG23	1.99	0.43
24:A:1039:PHO:H3A	24:A:1039:PHO:HBA2	1.53	0.43
2:B:187:PRO:C	2:B:189:GLY:N	2.75	0.43
2:B:258:TYR:HD2	30:H:1058:DGD:HD1	1.83	0.43
2:B:371:THR:O	2:B:371:THR:CG2	2.65	0.43
23:B:1020:CLA:H141	23:B:1020:CLA:H161	1.69	0.43
26:B:1047:BCR:C36	26:t:1046:BCR:C20	2.85	0.43
26:B:1047:BCR:C38	26:t:1046:BCR:H352	2.43	0.43
3:C:135:ARG:NH1	20:Z:33:TRP:HB3	2.25	0.43
3:C:182:PHE:N	3:C:182:PHE:CD2	2.85	0.43
3:C:322:GLN:NE2	3:C:381:LYS:CD	2.79	0.43
3:C:417:VAL:HG22	3:C:418:ASN:N	2.32	0.43
23:C:1028:CLA:HED3	30:C:1056:DGD:HD5	2.01	0.43
4:D:71:CYS:HB3	4:D:76:VAL:CG2	2.47	0.43
4:D:221:THR:CG2	4:D:244:TYR:CB	2.96	0.43
5:E:27:ILE:CB	5:E:28:PRO:CD	2.83	0.43
5:E:36:LEU:C	5:E:38:VAL:H	2.27	0.43
8:I:4:LEU:O	8:I:5:LYS:C	2.61	0.43
12:M:4:ASN:C	12:M:6:LEU:N	2.75	0.43
13:O:124:GLU:HG2	13:O:125:ASP:N	2.34	0.43
16:V:143:GLY:O	16:V:147:VAL:CG2	2.65	0.43
1:a:5081:ALA:CB	1:a:5175:GLY:CA	2.93	0.43
1:a:5103:ASP:HA	1:a:5106:LEU:HD12	2.00	0.43
1:a:5184:ILE:O	1:a:5328:MET:HE3	2.17	0.43
1:a:5210:LEU:HG	1:a:5211:PHE:HD2	1.81	0.43
1:a:5274:PHE:CA	1:a:5277:ALA:HB3	2.47	0.43
1:a:5276:ALA:O	1:a:5278:TRP:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5310:LYS:N	16:v:5028:GLU:CG	2.81	0.43
27:a:6063:LHG:O9	27:a:6063:LHG:H102	2.19	0.43
2:b:5014:GLY:HA2	2:b:5120:PHE:HE2	1.83	0.43
2:b:5063:MET:O	2:b:5064:ALA:C	2.60	0.43
2:b:5098:ILE:O	2:b:5099:VAL:C	2.61	0.43
2:b:5132:LEU:C	2:b:5134:LYS:H	2.26	0.43
2:b:5141:PHE:O	2:b:5207:ILE:HD13	2.17	0.43
2:b:5253:MET:CE	2:b:5265:PHE:CD1	3.00	0.43
2:b:5343:PHE:CE1	2:b:5418:ALA:HA	2.53	0.43
2:b:5370:LYS:HE2	2:b:5370:LYS:HA	1.99	0.43
2:b:5374:VAL:HG23	2:b:5387:TYR:CE2	2.53	0.43
2:b:5380:PHE:CD2	4:d:5347:PRO:HA	2.54	0.43
2:b:5454:VAL:O	2:b:5458:LEU:HG	2.18	0.43
23:b:6009:CLA:HED2	23:b:6009:CLA:HBD	1.86	0.43
23:b:6023:CLA:H52	23:b:6024:CLA:H193	2.01	0.43
3:c:5118:HIS:CE1	23:c:6027:CLA:O1A	2.71	0.43
3:c:5209:ILE:CG2	26:c:6054:BCR:H392	2.48	0.43
3:c:5217:PRO:O	30:c:6055:DGD:HG11	2.19	0.43
3:c:5334:PRO:HA	13:o:5179:THR:CB	2.48	0.43
3:c:5416:SER:HB3	16:v:5068:VAL:HG13	2.01	0.43
3:c:5459:ILE:O	4:d:5223:PHE:HB3	2.19	0.43
4:d:5103:ARG:O	4:d:5104:TRP:C	2.60	0.43
4:d:5213:ILE:HB	24:d:6038:PHO:HED1	1.98	0.43
15:u:5058:ASN:OD1	15:u:5084:PRO:HB2	2.18	0.43
18:y:5020:LEU:HD11	20:z:5025:VAL:CG2	2.48	0.43
1:A:258:LEU:HD12	4:D:128:ARG:HH11	1.83	0.43
1:A:323:ARG:HE	1:A:326:LEU:HD12	1.83	0.43
2:B:50:PRO:O	2:B:308:LYS:NZ	2.50	0.43
2:B:102:VAL:HG13	2:B:103:LEU:N	2.33	0.43
2:B:103:LEU:HD23	23:B:1014:CLA:H72	1.99	0.43
2:B:135:LEU:HB2	2:B:136:PRO:CD	2.49	0.43
2:B:258:TYR:OH	4:D:162:LEU:O	2.34	0.43
2:B:318:ASN:HD21	2:B:320:ALA:HB2	1.82	0.43
2:B:318:ASN:OD1	2:B:320:ALA:HB3	2.19	0.43
2:B:340:TRP:HB2	2:B:430:PHE:CE2	2.53	0.43
2:B:372:ASP:OD1	2:B:376:VAL:HG12	2.19	0.43
2:B:373:LYS:HD3	2:B:374:ASN:N	2.33	0.43
2:B:453:PHE:O	2:B:453:PHE:CG	2.70	0.43
3:C:52:ALA:HB1	23:C:1033:CLA:HBB1	2.00	0.43
3:C:135:ARG:HG3	3:C:135:ARG:NH2	2.32	0.43
3:C:250:TRP:HE1	23:C:1030:CLA:HED1	1.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:C:1033:CLA:H193	23:C:1036:CLA:CHD	2.49	0.43
4:D:180:ARG:HD3	4:D:184:PHE:HB2	2.00	0.43
5:E:8:ARG:CB	5:E:9:PRO:HD2	2.48	0.43
26:K:1051:BCR:H331	26:K:1051:BCR:C10	2.49	0.43
13:O:163:THR:O	13:O:164:THR:C	2.62	0.43
13:O:168:PHE:O	13:O:169:LYS:C	2.61	0.43
15:U:92:LEU:HD12	15:U:92:LEU:N	2.26	0.43
17:X:28:VAL:HG12	17:X:29:VAL:N	2.34	0.43
1:a:5050:ILE:CG2	26:a:6044:BCR:H391	2.49	0.43
1:a:5059:ASP:OD2	1:a:5061:ASP:O	2.36	0.43
2:b:5118:GLU:C	2:b:5120:PHE:N	2.72	0.43
2:b:5124:ARG:NH1	2:b:5124:ARG:HB2	2.33	0.43
2:b:5182:TRP:O	2:b:5183:GLY:O	2.36	0.43
2:b:5223:TYR:CD1	7:h:5021:VAL:HG22	2.53	0.43
2:b:5416:SER:CA	2:b:5419:ARG:HH12	2.14	0.43
23:b:6016:CLA:H172	23:b:6017:CLA:H18	2.01	0.43
23:b:6019:CLA:CAA	23:b:6019:CLA:CBD	2.97	0.43
23:b:6021:CLA:O2A	23:b:6021:CLA:HMA3	2.17	0.43
23:b:6023:CLA:O2D	23:b:6023:CLA:CBA	2.66	0.43
23:b:6023:CLA:C7	26:b:6048:BCR:H341	2.46	0.43
26:b:6047:BCR:H24C	26:b:6047:BCR:H371	1.63	0.43
3:c:5028:GLN:O	3:c:5029:GLU:CB	2.66	0.43
3:c:5371:GLY:O	13:o:5033:TYR:HB2	2.19	0.43
3:c:5431:PHE:O	3:c:5433:LEU:N	2.51	0.43
3:c:5435:PHE:C	3:c:5437:PHE:N	2.77	0.43
23:c:6033:CLA:CED	23:c:6033:CLA:CAD	2.94	0.43
4:d:5068:LEU:O	4:d:5068:LEU:HD23	2.18	0.43
4:d:5110:LEU:O	4:d:5113:PHE:HB3	2.18	0.43
4:d:5133:ALA:O	4:d:5138:VAL:N	2.42	0.43
4:d:5201:VAL:HG11	23:d:6005:CLA:CAD	2.49	0.43
29:d:6061:MGE:H263	29:d:6061:MGE:H212	2.00	0.43
5:e:5013:ILE:O	5:e:5013:ILE:HG23	2.18	0.43
5:e:5080:LEU:O	5:e:5081:GLU:C	2.61	0.43
13:o:5099:ARG:O	13:o:5100:GLU:C	2.61	0.43
20:z:5012:LEU:HD11	20:z:5051:VAL:HB	2.00	0.43
1:A:107:TYR:HD1	13:O:141:ARG:CZ	2.31	0.43
24:A:1038:PHO:H93	24:A:1038:PHO:H62	1.57	0.43
2:B:101:ILE:HG23	26:B:1047:BCR:H373	2.00	0.43
2:B:271:THR:O	2:B:272:ARG:C	2.61	0.43
2:B:325:PHE:HE1	11:L:34:TYR:HB3	1.74	0.43
2:B:392:PHE:O	2:B:394:GLN:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:455:HIS:ND1	2:B:455:HIS:N	2.67	0.43
2:B:472:ARG:HG2	2:B:479:PHE:CE2	2.54	0.43
23:B:1012:CLA:C1	23:B:1013:CLA:H11	2.41	0.43
3:C:35:TRP:O	3:C:36:TRP:C	2.59	0.43
3:C:188:THR:HG23	3:C:189:TRP:CD1	2.53	0.43
3:C:406:SER:HB3	30:C:1056:DGD:HE1	1.99	0.43
4:D:14:TRP:HA	4:D:17:ILE:HD12	1.99	0.43
4:D:101:PHE:CD1	4:D:101:PHE:O	2.70	0.43
4:D:106:GLN:C	4:D:108:GLY:H	2.26	0.43
4:D:148:ALA:N	4:D:149:PRO:HD2	2.33	0.43
4:D:195:PRO:HB2	11:L:31:PHE:CE1	2.53	0.43
4:D:210:LEU:CD1	4:D:274:VAL:HG21	2.49	0.43
23:D:1004:CLA:CAB	23:D:1005:CLA:HMD1	2.48	0.43
5:E:71:GLU:HG3	5:E:74:GLN:CB	2.48	0.43
8:I:34:ARG:HH11	8:I:34:ARG:HG3	1.83	0.43
13:O:78:VAL:HG23	13:O:94:THR:HG21	1.99	0.43
13:O:145:LEU:H	13:O:145:LEU:CD2	2.25	0.43
15:U:56:ASP:C	15:U:58:ASN:N	2.75	0.43
15:U:72:TYR:CD2	15:U:73:PRO:CD	3.01	0.43
16:V:90:PRO:O	16:V:91:PRO:C	2.61	0.43
18:Y:32:GLY:N	18:Y:33:PRO:CD	2.82	0.43
20:Z:14:ILE:O	20:Z:18:VAL:HG23	2.19	0.43
1:a:5032:TRP:N	1:a:5132:GLU:OE2	2.51	0.43
1:a:5161:TYR:N	1:a:5162:PRO:CD	2.81	0.43
1:a:5343:LEU:HD22	1:a:5343:LEU:N	2.34	0.43
2:b:5245:ALA:HB1	23:b:6011:CLA:H43	2.01	0.43
2:b:5361:GLU:HG3	4:d:5296:TYR:CE2	2.53	0.43
23:b:6011:CLA:H2A	23:b:6011:CLA:O1D	2.18	0.43
3:c:5344:SER:C	3:c:5346:THR:N	2.76	0.43
3:c:5391:ARG:HB2	3:c:5391:ARG:CZ	2.48	0.43
3:c:5469:MET:O	3:c:5471:SER:N	2.52	0.43
4:d:5073:PHE:CD2	29:d:6059:MGE:H5B2	2.53	0.43
6:f:5018:VAL:C	6:f:5020:TRP:N	2.77	0.43
10:k:5013:GLU:C	10:k:5015:TYR:N	2.76	0.43
26:k:6051:BCR:H331	26:k:6051:BCR:C10	2.49	0.43
20:z:5049:ALA:O	20:z:5053:VAL:N	2.47	0.43
20:z:5058:ASN:O	20:z:5061:VAL:HG13	2.18	0.43
1:A:78:ILE:HG13	11:L:34:TYR:CZ	2.53	0.43
1:A:292:THR:HG22	1:A:293:MET:N	2.33	0.43
1:A:317:TRP:HA	1:A:317:TRP:CE3	2.53	0.43
2:B:5:TRP:C	2:B:7:ARG:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:118:TRP:CG	2:B:119:ASP:N	2.85	0.43
2:B:118:TRP:HH2	11:L:5:PRO:HD2	1.77	0.43
2:B:122:LEU:N	2:B:122:LEU:CD1	2.82	0.43
2:B:135:LEU:CB	2:B:136:PRO:HD3	2.46	0.43
2:B:160:GLY:O	2:B:161:LEU:C	2.60	0.43
2:B:229:LEU:HD23	2:B:231:MET:H	1.82	0.43
2:B:272:ARG:HH12	4:D:164:GLN:HA	1.84	0.43
23:B:1011:CLA:HMD1	23:B:1014:CLA:CMB	2.49	0.43
23:B:1021:CLA:C19	29:B:1060:MGE:H133	2.25	0.43
3:C:219:GLY:O	3:C:220:GLY:C	2.60	0.43
3:C:286:ALA:HB2	23:C:1026:CLA:CMD	2.49	0.43
23:C:1033:CLA:H62	23:C:1033:CLA:H41	1.56	0.43
30:C:1057:DGD:HG12	9:J:33:TYR:OH	2.18	0.43
4:D:151:ALA:O	4:D:152:VAL:C	2.62	0.43
5:E:22:ILE:HA	5:E:22:ILE:HD12	1.89	0.43
5:E:63:ILE:O	5:E:65:LEU:N	2.49	0.43
9:J:19:MET:O	9:J:22:ILE:HG22	2.18	0.43
16:V:117:VAL:O	16:V:119:PRO:HD3	2.18	0.43
16:V:145:ILE:N	16:V:145:ILE:HD12	2.34	0.43
1:a:5043:ALA:O	1:a:5044:ALA:C	2.62	0.43
1:a:5105:TRP:CD1	1:a:5110:GLY:HA3	2.54	0.43
23:a:6003:CLA:H3A	23:a:6003:CLA:HBA1	1.71	0.43
2:b:5008:VAL:HG11	11:l:5007:ARG:HH11	1.83	0.43
2:b:5051:PRO:O	2:b:5052:MET:C	2.61	0.43
2:b:5110:TRP:CE3	2:b:5111:HIS:NE2	2.87	0.43
2:b:5142:LEU:HG	2:b:5142:LEU:H	1.65	0.43
2:b:5230:ASN:O	2:b:5233:THR:HG22	2.18	0.43
2:b:5453:ALA:HB2	30:h:6058:DGD:HBG2	2.00	0.43
23:b:6021:CLA:C19	29:b:6060:MGE:H133	2.26	0.43
3:c:5045:LEU:HB2	3:c:5140:LEU:CD2	2.49	0.43
3:c:5159:THR:C	3:c:5161:LEU:N	2.76	0.43
3:c:5268:GLY:O	23:c:6033:CLA:HBC1	2.18	0.43
23:c:6029:CLA:H111	23:c:6029:CLA:H71	1.80	0.43
4:d:5021:TRP:O	4:d:5022:LEU:C	2.62	0.43
4:d:5046:GLY:CA	26:d:6050:BCR:C10	2.96	0.43
4:d:5049:LEU:HB3	26:d:6050:BCR:H14C	2.00	0.43
4:d:5257:PHE:CG	24:d:6038:PHO:O1D	2.72	0.43
13:o:5041:LEU:C	13:o:5043:ASN:N	2.73	0.43
13:o:5114:ASN:OD1	13:o:5114:ASN:N	2.50	0.43
13:o:5198:ILE:HD12	13:o:5198:ILE:O	2.18	0.43
15:u:5057:LEU:HD23	15:u:5079:ILE:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:u:5058:ASN:CG	15:u:5114:VAL:HG13	2.44	0.43
15:u:5103:GLN:O	15:u:5104:ILE:C	2.62	0.43
1:A:148:SER:OG	1:A:284:TRP:NE1	2.50	0.43
1:A:224:ILE:O	2:B:482:ILE:N	2.52	0.43
23:A:1006:CLA:H161	23:A:1006:CLA:H193	1.66	0.43
23:A:1006:CLA:HBA2	23:A:1006:CLA:H3A	1.64	0.43
2:B:18:ARG:H	2:B:18:ARG:HD3	1.83	0.43
2:B:65:PHE:HA	2:B:68:ARG:HD2	1.99	0.43
2:B:68:ARG:CZ	23:B:1011:CLA:CED	2.96	0.43
23:B:1015:CLA:H161	23:B:1015:CLA:H141	1.73	0.43
23:B:1019:CLA:CAA	23:B:1019:CLA:CBD	2.97	0.43
3:C:135:ARG:HB2	20:Z:27:TYR:HB3	2.00	0.43
3:C:245:ILE:HG22	3:C:246:ALA:N	2.32	0.43
3:C:473:ASP:CB	14:T:26:PRO:HG3	2.45	0.43
23:C:1032:CLA:HED3	23:C:1032:CLA:CMA	2.48	0.43
12:M:22:LEU:C	12:M:24:ILE:H	2.27	0.43
13:O:73:PRO:HG3	13:O:102:THR:HG1	1.82	0.43
15:U:97:LEU:CB	15:U:102:LYS:HG2	2.41	0.43
1:a:5040:THR:HG22	1:a:5041:LEU:HD22	2.01	0.43
1:a:5064:ARG:CG	1:a:5064:ARG:NH2	2.78	0.43
1:a:5225:ARG:HB3	2:b:5481:PRO:HD3	2.01	0.43
24:a:6039:PHO:H141	24:a:6039:PHO:H162	1.57	0.43
26:a:6044:BCR:H392	26:a:6044:BCR:C22	2.41	0.43
2:b:5036:LEU:O	2:b:5039:LEU:CB	2.66	0.43
2:b:5062:PHE:CZ	2:b:5448:PHE:CE1	3.07	0.43
2:b:5100:LEU:HD22	2:b:5104:LEU:HG	1.99	0.43
2:b:5228:MET:CA	2:b:5233:THR:HG21	2.30	0.43
3:c:5121:SER:HA	3:c:5124:VAL:HG21	1.99	0.43
3:c:5472:LEU:HD12	3:c:5473:ASP:H	1.83	0.43
23:c:6028:CLA:HED3	30:c:6056:DGD:HD5	2.01	0.43
23:c:6030:CLA:CMB	23:c:6031:CLA:C1B	2.97	0.43
4:d:5209:LEU:HD23	4:d:5213:ILE:CG2	2.48	0.43
5:e:5026:THR:O	5:e:5030:LEU:HB2	2.19	0.43
6:f:5028:VAL:O	6:f:5031:ILE:HG22	2.19	0.43
13:o:5065:ARG:NE	13:o:5065:ARG:HA	2.34	0.43
13:o:5079:LYS:HG2	13:o:5089:ALA:HB1	1.99	0.43
13:o:5144:LEU:HD23	13:o:5144:LEU:O	2.18	0.43
13:o:5259:VAL:HG12	13:o:5261:ILE:HG13	2.01	0.43
15:u:5076:ALA:O	15:u:5079:ILE:N	2.52	0.43
16:v:5087:LEU:CD1	16:v:5087:LEU:N	2.81	0.43
20:z:5009:LEU:O	20:z:5012:LEU:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:24:THR:OG1	3:C:469:MET:HE3	2.18	0.43
1:A:79:THR:O	1:A:80:GLY:O	2.36	0.43
1:A:83:VAL:HA	1:A:84:PRO:HD3	1.74	0.43
1:A:99:ALA:C	1:A:101:SER:N	2.75	0.43
1:A:159:LEU:HD11	1:A:163:ILE:HD11	2.00	0.43
2:B:118:TRP:CD1	2:B:118:TRP:N	2.87	0.43
2:B:222:PRO:HD3	7:H:27:THR:CG2	2.49	0.43
2:B:368:VAL:O	2:B:368:VAL:CG1	2.62	0.43
2:B:458:PHE:N	2:B:458:PHE:CD1	2.86	0.43
2:B:488:PRO:CG	2:B:489:GLU:H	2.30	0.43
23:B:1011:CLA:OBD	23:B:1011:CLA:HED3	2.15	0.43
23:B:1019:CLA:C19	23:B:1021:CLA:C6	2.97	0.43
23:B:1023:CLA:C11	23:B:1023:CLA:H161	2.43	0.43
29:B:1060:MGE:H102	29:B:1060:MGE:H7A1	1.60	0.43
3:C:52:ALA:O	3:C:55:ALA:HB3	2.19	0.43
3:C:237:HIS:C	3:C:240:ILE:HG22	2.44	0.43
3:C:344:SER:C	3:C:346:THR:H	2.27	0.43
3:C:361:PHE:CD1	3:C:361:PHE:C	2.96	0.43
4:D:90:LEU:HD13	4:D:109:GLY:N	2.33	0.43
4:D:103:ARG:HD3	5:E:73:LYS:CD	2.48	0.43
4:D:235:PHE:CD1	4:D:235:PHE:C	2.96	0.43
5:E:10:PHE:C	5:E:12:ASP:N	2.73	0.43
7:H:5:THR:HG23	7:H:8:GLY:HA3	2.01	0.43
26:K:1051:BCR:C1	26:K:1052:BCR:H10C	2.48	0.43
13:O:133:THR:CG2	13:O:134:VAL:H	2.32	0.43
20:Z:19:MET:O	20:Z:23:VAL:HG23	2.18	0.43
20:Z:40:ILE:HD13	20:Z:40:ILE:HA	1.91	0.43
1:a:5221:SER:O	4:d:5138:VAL:HG12	2.19	0.43
1:a:5255:PHE:CD1	1:a:5258:LEU:HD23	2.53	0.43
1:a:5259:ILE:HG22	1:a:5263:ALA:HB3	2.00	0.43
1:a:5327:GLY:HA2	4:d:5328:TRP:CD1	2.54	0.43
23:a:6006:CLA:HMC3	4:d:5157:PHE:CE1	2.53	0.43
2:b:5153:PHE:HB2	23:b:6014:CLA:CAC	2.45	0.43
2:b:5398:PHE:CD2	2:b:5398:PHE:N	2.86	0.43
2:b:5451:ALA:HB3	23:b:6015:CLA:HBB2	2.01	0.43
23:b:6010:CLA:H12	7:h:5049:TYR:HD2	1.83	0.43
23:b:6011:CLA:HMD1	23:b:6014:CLA:CMB	2.49	0.43
23:b:6012:CLA:H92	23:b:6018:CLA:H61	2.00	0.43
30:c:6055:DGD:HB91	30:c:6055:DGD:HB61	1.54	0.43
4:d:5036:LEU:O	4:d:5039:PRO:HG2	2.19	0.43
4:d:5042:TYR:C	4:d:5044:ALA:N	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5078:VAL:HG11	4:d:5114:ILE:CD1	2.49	0.43
4:d:5087:HIS:C	4:d:5167:TRP:HE1	2.27	0.43
4:d:5089:LEU:HD13	7:h:5050:ASN:OD1	2.18	0.43
4:d:5191:TRP:CZ2	4:d:5197:HIS:HB2	2.53	0.43
4:d:5205:LEU:HB3	23:d:6005:CLA:C1	2.48	0.43
23:d:6004:CLA:H61	23:d:6004:CLA:H41	1.71	0.43
23:d:6004:CLA:H93	23:d:6004:CLA:H62	1.89	0.43
29:d:6062:MGE:H1D	29:d:6062:MGE:H2G	1.30	0.43
5:e:5037:PHE:CE2	5:e:5043:ALA:HA	2.54	0.43
6:f:5040:MET:HA	6:f:5043:ILE:CD1	2.48	0.43
1:A:70:SER:O	1:A:74:GLY:C	2.61	0.43
1:A:81:ALA:HB1	1:A:175:GLY:CA	2.40	0.43
1:A:91:LEU:HD13	1:A:166:GLY:C	2.42	0.43
1:A:137:LEU:O	1:A:139:MET:HG2	2.18	0.43
1:A:260:PHE:C	1:A:261:GLN:O	2.61	0.43
27:A:1063:LHG:C27	23:C:1032:CLA:H62	2.49	0.43
2:B:7:ARG:CD	23:B:1019:CLA:HED3	2.46	0.43
2:B:122:LEU:HA	7:H:12:ARG:CZ	2.49	0.43
2:B:184:GLU:OE1	2:B:184:GLU:C	2.61	0.43
2:B:275:TRP:CE2	2:B:315:ILE:HD12	2.53	0.43
23:B:1011:CLA:H121	26:H:1049:BCR:H313	2.00	0.43
23:B:1021:CLA:H141	23:B:1021:CLA:H161	1.81	0.43
3:C:60:ILE:HG23	23:C:1027:CLA:CMD	2.49	0.43
3:C:279:LEU:HA	3:C:282:MET:HE3	2.00	0.43
3:C:436:PHE:HA	3:C:439:VAL:CG1	2.49	0.43
23:D:1008:CLA:H91	17:X:30:LEU:HG	2.00	0.43
23:D:1008:CLA:H143	23:D:1008:CLA:H112	1.58	0.43
5:E:14:ILE:HG13	5:E:15:THR:N	2.32	0.43
5:E:81:GLU:O	5:E:82:GLN:C	2.62	0.43
5:E:82:GLN:O	5:E:83:LEU:C	2.61	0.43
6:F:11:VAL:CG1	6:F:12:SER:H	2.20	0.43
7:H:7:LEU:CD2	7:H:11:LEU:HD22	2.49	0.43
7:H:32:ALA:HA	7:H:35:MET:HE2	2.00	0.43
8:I:2:GLU:O	8:I:6:ILE:CD1	2.67	0.43
15:U:50:ALA:HB1	15:U:113:THR:CG2	2.46	0.43
15:U:103:GLN:C	15:U:105:LEU:N	2.76	0.43
20:Z:1:MET:SD	20:Z:60:PHE:CD2	3.12	0.43
1:a:5131:TRP:HB2	1:a:5144:CYS:SG	2.59	0.43
1:a:5292:THR:C	1:a:5294:ALA:N	2.68	0.43
23:a:6006:CLA:C14	23:d:6004:CLA:C19	2.89	0.43
2:b:5055:GLN:CA	2:b:5326:PRO:HB2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5153:PHE:HB3	2:b:5159:PHE:CB	2.49	0.43
2:b:5243:PHE:CE2	2:b:5460:PHE:HA	2.54	0.43
2:b:5351:LEU:CB	2:b:5367:LEU:HD22	2.43	0.43
2:b:5462:GLY:O	2:b:5466:HIS:N	2.38	0.43
3:c:5084:GLN:HB2	3:c:5084:GLN:HE21	1.57	0.43
3:c:5112:PHE:O	3:c:5112:PHE:CD1	2.72	0.43
3:c:5391:ARG:HH11	3:c:5391:ARG:CG	2.32	0.43
3:c:5407:VAL:O	3:c:5408:GLY:C	2.61	0.43
3:c:5455:PHE:O	3:c:5458:GLY:O	2.37	0.43
23:c:6037:CLA:CBA	23:c:6037:CLA:O1D	2.67	0.43
4:d:5055:VAL:O	4:d:5065:SER:HB2	2.19	0.43
4:d:5092:LEU:HD22	4:d:5104:TRP:CB	2.48	0.43
4:d:5129:GLN:HE21	4:d:5142:ASN:CG	2.27	0.43
4:d:5185:PHE:HA	4:d:5189:HIS:HB2	2.01	0.43
4:d:5213:ILE:HD11	4:d:5253:TRP:CZ2	2.53	0.43
23:d:6008:CLA:H112	23:d:6008:CLA:H143	1.58	0.43
7:h:5013:PRO:C	7:h:5015:ASN:N	2.76	0.43
11:l:5008:GLN:HB2	11:l:5009:PRO:HD2	2.01	0.43
13:o:5215:ARG:HE	13:o:5252:GLY:CA	2.32	0.43
14:t:5008:PHE:C	14:t:5010:PHE:N	2.74	0.43
15:u:5047:LEU:HD23	15:u:5047:LEU:N	2.34	0.43
15:u:5050:ALA:CB	15:u:5113:THR:HG21	2.48	0.43
17:x:5038:ILE:HA	17:x:5041:SER:OG	2.19	0.43
1:A:58:VAL:HB	1:A:83:VAL:CG1	2.47	0.43
1:A:239:PHE:CZ	4:D:247:VAL:HA	2.54	0.43
1:A:257:ARG:HB3	4:D:132:ILE:HG21	2.01	0.43
1:A:315:ASN:O	4:D:63:LEU:HG	2.19	0.43
1:A:330:VAL:HG23	1:A:331:MET:N	2.33	0.43
23:A:1007:CLA:CMC	26:A:1044:BCR:H352	2.47	0.43
2:B:189:GLY:O	2:B:197:GLY:HA3	2.18	0.43
23:B:1012:CLA:CGA	23:B:1013:CLA:HBA2	2.49	0.43
23:B:1018:CLA:H111	23:B:1018:CLA:H143	1.74	0.43
23:B:1020:CLA:HAA1	23:B:1020:CLA:CBD	2.49	0.43
3:C:63:TRP:CB	23:C:1034:CLA:CED	2.92	0.43
3:C:78:GLU:HB3	16:V:128:PRO:CB	2.49	0.43
3:C:163:PHE:CD1	23:C:1036:CLA:HBB1	2.53	0.43
3:C:173:LEU:HD23	3:C:176:VAL:HG21	2.00	0.43
3:C:403:SER:OG	3:C:407:VAL:HB	2.18	0.43
23:C:1032:CLA:H2	23:C:1035:CLA:C2C	2.49	0.43
4:D:152:VAL:CG1	4:D:153:PHE:N	2.82	0.43
4:D:214:HIS:HA	4:D:217:THR:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:251:ARG:O	4:D:255:GLN:OE1	2.36	0.43
5:E:35:TRP:CD1	5:E:35:TRP:O	2.72	0.43
5:E:44:TYR:C	5:E:46:VAL:N	2.75	0.43
11:L:13:ASN:ND2	29:L:1061:MGE:O5D	2.52	0.43
12:M:8:PHE:HB3	12:M:9:ILE:H	1.68	0.43
13:O:265:PHE:CG	13:O:266:TYR:N	2.87	0.43
15:U:55:ILE:HD11	15:U:64:ALA:O	2.19	0.43
15:U:113:THR:CG2	15:U:114:VAL:H	2.32	0.43
17:X:16:LEU:O	17:X:19:PHE:HB3	2.19	0.43
18:Y:20:ALA:C	18:Y:22:LEU:H	2.26	0.43
1:a:5071:LEU:C	1:a:5073:TYR:N	2.76	0.43
1:a:5205:VAL:HB	1:a:5279:ARG:HH12	1.84	0.43
1:a:5214:MET:HA	1:a:5217:SER:HB3	2.00	0.43
1:a:5289:GLY:O	1:a:5293:MET:CE	2.67	0.43
1:a:5300:PHE:HA	3:c:5405:ASN:H	1.84	0.43
2:b:5072:TRP:CE3	2:b:5091:GLU:CB	3.02	0.43
2:b:5099:VAL:HA	26:b:6047:BCR:H402	2.00	0.43
2:b:5115:TRP:CE3	11:l:5004:ASN:ND2	2.87	0.43
2:b:5147:CYS:SG	2:b:5199:HIS:CD2	3.10	0.43
2:b:5260:THR:CB	2:b:5445:ARG:HH22	2.32	0.43
2:b:5262:ILE:CG2	2:b:5267:PRO:HA	2.49	0.43
2:b:5274:SER:O	2:b:5275:SER:CB	2.67	0.43
23:b:6011:CLA:H171	23:b:6016:CLA:CBC	2.49	0.43
23:b:6015:CLA:H161	23:b:6015:CLA:H141	1.73	0.43
23:b:6023:CLA:H72	26:b:6048:BCR:H343	1.96	0.43
3:c:5237:HIS:CA	3:c:5240:ILE:HG22	2.48	0.43
3:c:5276:LEU:O	3:c:5278:ALA:N	2.52	0.43
4:d:5103:ARG:C	4:d:5105:CYS:N	2.77	0.43
4:d:5167:TRP:O	4:d:5168:PHE:C	2.62	0.43
4:d:5328:TRP:CZ2	4:d:5346:LEU:HG	2.54	0.43
24:d:6038:PHO:H3A	24:d:6038:PHO:HBA2	1.36	0.43
26:d:6050:BCR:C39	29:d:6059:MGE:H6B1	2.49	0.43
29:d:6059:MGE:O5D	6:f:5040:MET:HB2	2.19	0.43
29:d:6061:MGE:H6D2	29:d:6061:MGE:H1D	1.87	0.43
29:d:6062:MGE:H4A2	14:t:5017:PHE:HD2	1.80	0.43
29:d:6062:MGE:H2A2	14:t:5020:ALA:HB3	2.00	0.43
5:e:5034:GLY:CA	6:f:5032:PHE:CD2	3.02	0.43
13:o:5065:ARG:HH11	13:o:5108:GLN:HB2	1.83	0.43
13:o:5123:GLU:HG2	13:o:5124:GLU:H	1.83	0.43
13:o:5187:GLY:C	13:o:5194:TYR:HB2	2.43	0.43
16:v:5056:LYS:O	16:v:5057:ARG:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:5089:THR:HG1	16:v:5109:ASP:HA	1.74	0.43
16:v:5117:VAL:HG12	16:v:5118:HIS:N	2.34	0.43
31:v:6041:HEM:CBA	31:v:6041:HEM:CMA	2.97	0.43
1:A:77:ILE:HB	11:L:33:SER:OG	2.19	0.42
1:A:113:GLN:HA	1:A:116:ILE:CG2	2.46	0.42
1:A:196:PRO:C	1:A:199:GLN:HG3	2.44	0.42
1:A:279:ARG:CD	4:D:208:ALA:CB	2.80	0.42
2:B:33:TRP:CH2	23:B:1012:CLA:HMB1	2.53	0.42
2:B:78:TRP:HB2	2:B:79:SER:H	1.70	0.42
2:B:103:LEU:HD23	23:B:1014:CLA:C7	2.49	0.42
2:B:188:ASP:C	2:B:190:PHE:N	2.75	0.42
2:B:265:ILE:HG12	7:H:62:TRP:CZ3	2.54	0.42
23:B:1015:CLA:HBD	23:B:1015:CLA:HAA1	2.01	0.42
3:C:63:TRP:CZ2	3:C:67:MET:HE2	2.54	0.42
3:C:419:PHE:CE2	3:C:421:SER:HA	2.53	0.42
23:C:1030:CLA:CAB	23:C:1031:CLA:HMA2	2.49	0.42
23:C:1033:CLA:C19	23:C:1033:CLA:H143	2.49	0.42
23:C:1033:CLA:C9	23:C:1033:CLA:H122	2.02	0.42
23:C:1035:CLA:C9	26:K:1052:BCR:H402	2.42	0.42
23:C:1037:CLA:O1A	23:C:1037:CLA:H3A	2.19	0.42
4:D:17:ILE:HG22	17:X:41:SER:CB	2.33	0.42
4:D:245:SER:HB2	4:D:248:THR:OG1	2.18	0.42
26:D:1050:BCR:C40	26:D:1050:BCR:H372	2.29	0.42
31:E:1040:HEM:O1A	31:E:1040:HEM:HMA1	2.16	0.42
8:I:15:PHE:O	8:I:18:LEU:HB2	2.19	0.42
13:O:198:ILE:HD12	13:O:198:ILE:O	2.19	0.42
15:U:113:THR:CG2	15:U:114:VAL:N	2.79	0.42
18:Y:19:ILE:HG23	18:Y:20:ALA:H	1.84	0.42
1:a:5011:ALA:HB1	1:a:5015:GLU:CB	2.49	0.42
1:a:5235:TYR:O	1:a:5237:TYR:N	2.50	0.42
1:a:5265:PHE:CZ	27:a:6063:LHG:H152	2.54	0.42
1:a:5281:VAL:CG1	1:a:5282:GLY:H	2.32	0.42
1:a:5297:LEU:HD12	3:c:5428:THR:CB	2.49	0.42
23:a:6007:CLA:CMC	26:a:6044:BCR:H352	2.47	0.42
2:b:5104:LEU:O	2:b:5105:PHE:C	2.62	0.42
2:b:5239:ILE:HG22	2:b:5463:HIS:HB2	2.00	0.42
23:b:6019:CLA:C19	23:b:6021:CLA:C6	2.97	0.42
3:c:5043:ILE:HG13	3:c:5044:ASN:ND2	2.34	0.42
3:c:5056:HIS:HD1	3:c:5057:ALA:N	2.17	0.42
4:d:5123:ILE:O	4:d:5127:LEU:CD2	2.66	0.42
4:d:5284:ILE:O	4:d:5285:GLY:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:d:6004:CLA:CAB	23:d:6005:CLA:HMD1	2.48	0.42
9:j:5027:LEU:O	9:j:5027:LEU:HG	2.19	0.42
10:k:5021:LEU:C	10:k:5023:ASP:H	2.26	0.42
15:u:5041:ASN:HB3	15:u:5044:ASP:OD2	2.18	0.42
15:u:5069:ARG:O	15:u:5071:LEU:HD12	2.18	0.42
20:z:5045:GLY:O	20:z:5048:ILE:HD12	2.19	0.42
1:A:40:THR:HG21	1:A:121:LEU:CD2	2.49	0.42
1:A:70:SER:OG	1:A:71:LEU:N	2.52	0.42
24:A:1039:PHO:H61	24:A:1039:PHO:H102	1.65	0.42
2:B:18:ARG:HD2	11:L:4:ASN:ND2	2.28	0.42
2:B:137:LYS:HD3	7:H:14:LEU:O	2.19	0.42
2:B:154:GLY:O	2:B:159:THR:OG1	2.26	0.42
2:B:159:THR:HB	2:B:161:LEU:HD22	2.02	0.42
2:B:447:PRO:O	2:B:448:ARG:C	2.62	0.42
2:B:461:LEU:HD23	4:D:280:TRP:CZ3	2.54	0.42
23:B:1011:CLA:CGA	23:B:1011:CLA:C3A	2.92	0.42
23:B:1014:CLA:H8	23:B:1014:CLA:H51	1.55	0.42
23:B:1021:CLA:HAA2	23:B:1021:CLA:CBD	2.49	0.42
23:B:1022:CLA:H13	23:B:1022:CLA:H71	1.92	0.42
3:C:63:TRP:HB2	23:C:1034:CLA:HED1	1.98	0.42
3:C:98:GLY:O	3:C:106:VAL:HG12	2.19	0.42
3:C:227:VAL:CG2	3:C:293:ASN:HD21	2.32	0.42
3:C:261:ARG:NH1	3:C:261:ARG:N	2.66	0.42
3:C:465:PRO:HB3	8:I:32:PRO:HB3	2.01	0.42
4:D:22:LEU:CD1	4:D:32:TRP:CE3	3.02	0.42
5:E:8:ARG:HA	5:E:8:ARG:NE	2.32	0.42
7:H:31:MET:C	7:H:33:VAL:H	2.27	0.42
10:K:31:LEU:O	10:K:34:ALA:HB3	2.19	0.42
11:L:24:ILE:CD1	12:M:18:PRO:CG	2.96	0.42
11:L:25:LEU:O	11:L:25:LEU:HD23	2.20	0.42
13:O:114:ASN:OD1	13:O:118:SER:O	2.36	0.42
13:O:129:PHE:O	13:O:130:GLN:CG	2.63	0.42
13:O:166:THR:CG2	13:O:167:ASP:N	2.82	0.42
14:T:3:THR:HG22	14:T:4:ILE:N	2.31	0.42
20:Z:49:ALA:O	20:Z:53:VAL:N	2.48	0.42
1:a:5052:PHE:O	1:a:5071:LEU:HD12	2.18	0.42
1:a:5265:PHE:HE1	1:a:5270:SER:O	2.03	0.42
1:a:5279:ARG:CD	1:a:5283:VAL:HB	2.50	0.42
23:a:6003:CLA:H111	23:d:6005:CLA:HMB3	2.02	0.42
2:b:5130:LEU:HB3	2:b:5135:MET:CE	2.49	0.42
2:b:5390:GLU:HA	2:b:5393:GLY:HA2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6018:CLA:H143	23:b:6018:CLA:H111	1.74	0.42
23:b:6021:CLA:C6	29:b:6060:MGE:H231	2.14	0.42
29:b:6060:MGE:O1B	29:b:6060:MGE:C1G	2.65	0.42
3:c:5249:ILE:O	3:c:5249:ILE:HG22	2.18	0.42
23:c:6025:CLA:H203	23:c:6031:CLA:H152	2.01	0.42
23:c:6033:CLA:H193	23:c:6036:CLA:CHD	2.49	0.42
23:c:6034:CLA:H193	30:c:6057:DGD:HAF1	2.01	0.42
4:d:5209:LEU:CD1	25:d:6042:PQ9:H192	2.48	0.42
13:o:5230:VAL:HA	13:o:5236:GLU:O	2.20	0.42
14:t:5003:THR:OG1	14:t:5004:ILE:CD1	2.67	0.42
15:u:5057:LEU:HD11	15:u:5112:PHE:CB	2.49	0.42
16:v:5105:PRO:CG	16:v:5115:ALA:CA	2.97	0.42
1:A:38:ILE:HG22	1:A:39:PRO:N	2.33	0.42
1:A:131:TRP:CE3	1:A:132:GLU:CA	3.02	0.42
1:A:153:SER:O	1:A:156:ALA:HB3	2.18	0.42
1:A:260:PHE:HD1	1:A:261:GLN:O	2.02	0.42
1:A:289:GLY:O	1:A:293:MET:HE3	2.19	0.42
23:A:1006:CLA:H92	24:A:1039:PHO:HMB3	2.01	0.42
2:B:23:HIS:CE1	23:B:1018:CLA:H193	2.51	0.42
2:B:84:THR:OG1	13:o:5092:VAL:HG23	2.19	0.42
2:B:191:ASN:C	2:B:193:TYR:H	2.26	0.42
2:B:226:TYR:HA	2:B:231:MET:HE3	2.01	0.42
2:B:226:TYR:HA	2:B:231:MET:HG2	2.01	0.42
23:B:1015:CLA:H142	23:B:1015:CLA:H111	1.59	0.42
29:B:1060:MGE:H261	29:B:1060:MGE:C3A	2.43	0.42
3:C:47:GLY:O	3:C:50:LEU:HB3	2.20	0.42
3:C:197:ARG:CG	3:C:198:VAL:N	2.81	0.42
3:C:340:TYR:CD2	3:C:340:TYR:N	2.88	0.42
3:C:348:GLU:C	3:C:349:ILE:HD12	2.42	0.42
3:C:390:ARG:O	3:C:391:ARG:C	2.60	0.42
23:C:1036:CLA:C19	26:Z:1053:BCR:H372	2.47	0.42
4:D:77:ALA:HB1	4:D:173:PHE:O	2.19	0.42
4:D:87:HIS:HB2	30:H:1058:DGD:O2D	2.19	0.42
25:D:1042:PQ9:H261	25:D:1042:PQ9:H241	1.71	0.42
6:F:26:LEU:C	6:F:29:PRO:HD2	2.44	0.42
12:M:17:VAL:N	12:M:18:PRO:CD	2.82	0.42
13:O:135:GLN:HG3	13:O:140:GLU:O	2.19	0.42
15:U:83:ALA:HB1	15:U:84:PRO:HD2	2.01	0.42
1:a:5149:ALA:HB3	1:a:5150:PRO:CD	2.49	0.42
2:b:5024:THR:O	2:b:5104:LEU:CD1	2.68	0.42
2:b:5102:GLY:O	2:b:5103:LEU:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5140:LEU:O	2:b:5143:ALA:HB3	2.20	0.42
2:b:5339:GLY:HA3	2:b:5400:GLY:O	2.19	0.42
2:b:5387:TYR:O	2:b:5388:SER:C	2.62	0.42
2:b:5445:ARG:HH11	2:b:5445:ARG:CG	2.32	0.42
3:c:5215:LYS:O	3:c:5216:SER:HB2	2.19	0.42
3:c:5217:PRO:HG2	3:c:5218:PHE:N	2.31	0.42
3:c:5337:LEU:HD13	3:c:5342:MET:HE1	2.00	0.42
3:c:5399:ALA:O	3:c:5401:LEU:N	2.49	0.42
3:c:5436:PHE:O	3:c:5439:VAL:CG1	2.64	0.42
30:c:6057:DGD:HAG2	30:c:6057:DGD:CHB	2.48	0.42
4:d:5092:LEU:HD13	4:d:5092:LEU:C	2.43	0.42
4:d:5235:PHE:CZ	4:d:5243:THR:HG23	2.54	0.42
5:e:5017:VAL:CG1	9:j:5007:ARG:HG2	2.49	0.42
5:e:5035:TRP:HD1	5:e:5035:TRP:O	2.01	0.42
6:f:5028:VAL:HG13	6:f:5029:PRO:CD	2.49	0.42
6:f:5028:VAL:CG1	6:f:5029:PRO:HD3	2.49	0.42
7:h:5054:ILE:O	7:h:5054:ILE:CG2	2.65	0.42
13:o:5036:ILE:HG23	13:o:5041:LEU:CD1	2.49	0.42
13:o:5108:GLN:HE21	13:o:5125:ASP:HB3	1.84	0.42
15:u:5057:LEU:HD13	15:u:5091:VAL:HG22	2.01	0.42
15:u:5064:ALA:O	15:u:5067:GLN:HB2	2.19	0.42
15:u:5069:ARG:HH11	15:u:5069:ARG:CG	2.32	0.42
20:z:5005:PHE:O	20:z:5007:LEU:N	2.52	0.42
1:A:95:PRO:C	1:A:97:TRP:N	2.76	0.42
1:A:97:TRP:HZ3	8:I:8:VAL:HG11	1.84	0.42
1:A:172:MET:O	1:A:172:MET:HG3	2.18	0.42
1:A:177:SER:HA	1:A:180:PHE:CE2	2.55	0.42
2:B:51:VAL:HG12	2:B:52:LEU:HG	2.01	0.42
2:B:354:LEU:CB	2:B:370:LEU:HD22	2.34	0.42
2:B:483:ASP:C	2:B:485:GLU:N	2.78	0.42
23:B:1012:CLA:HBA1	23:B:1013:CLA:HBA2	2.00	0.42
23:B:1016:CLA:H172	23:H:1017:CLA:H18	2.00	0.42
26:B:1047:BCR:H383	26:t:1046:BCR:C35	2.47	0.42
3:C:79:LYS:O	3:C:80:PRO:C	2.61	0.42
3:C:89:ILE:N	3:C:90:PRO:CD	2.82	0.42
3:C:186:TYR:C	3:C:186:TYR:CD2	2.96	0.42
3:C:255:THR:O	3:C:256:PRO:C	2.62	0.42
3:C:264:PHE:CZ	26:C:1054:BCR:H321	2.55	0.42
3:C:286:ALA:O	3:C:287:THR:C	2.63	0.42
3:C:339:LYS:HD2	3:C:340:TYR:HE2	1.84	0.42
3:C:435:PHE:O	3:C:437:PHE:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:C:1027:CLA:H152	26:Z:1053:BCR:H332	2.00	0.42
30:C:1057:DGD:HAG2	30:C:1057:DGD:CHB	2.49	0.42
30:C:1057:DGD:HG31	9:J:33:TYR:CE2	2.55	0.42
4:D:77:ALA:CB	4:D:173:PHE:O	2.68	0.42
4:D:160:TYR:O	4:D:161:PRO:C	2.63	0.42
4:D:275:PRO:O	4:D:276:VAL:C	2.62	0.42
5:E:74:GLN:O	5:E:75:GLN:C	2.62	0.42
10:K:27:VAL:O	10:K:27:VAL:HG22	2.19	0.42
11:L:18:TYR:CE2	14:T:19:PHE:O	2.70	0.42
13:O:34:ASP:O	13:O:37:VAL:HG12	2.19	0.42
13:O:158:ASN:C	13:O:158:ASN:HD22	2.26	0.42
13:O:196:SER:O	13:O:197:ALA:O	2.37	0.42
13:O:218:LEU:C	13:O:218:LEU:CD2	2.93	0.42
15:U:89:GLU:O	15:U:92:LEU:HD13	2.20	0.42
15:U:103:GLN:O	15:U:105:LEU:N	2.52	0.42
16:V:134:THR:H	16:V:137:ASP:HB2	1.84	0.42
17:X:11:THR:O	17:X:12:ILE:CG2	2.67	0.42
17:X:32:LEU:HD12	17:X:32:LEU:HA	1.91	0.42
20:Z:61:VAL:CG2	20:Z:62:VAL:H	2.12	0.42
1:a:5173:PRO:HD2	1:a:5182:PHE:HB2	2.01	0.42
1:a:5255:PHE:CE1	1:a:5258:LEU:HD23	2.54	0.42
1:a:5259:ILE:HD13	1:a:5259:ILE:HA	1.83	0.42
1:a:5280:VAL:N	1:a:5283:VAL:CG1	2.82	0.42
27:a:6063:LHG:C27	23:c:6032:CLA:H62	2.49	0.42
27:a:6063:LHG:H242	23:c:6032:CLA:HMD2	2.01	0.42
2:b:5014:GLY:CA	2:b:5120:PHE:HE2	2.33	0.42
2:b:5187:PHE:N	2:b:5187:PHE:CD1	2.88	0.42
2:b:5256:GLY:HA2	7:h:5062:TRP:CZ2	2.54	0.42
2:b:5370:LYS:CG	2:b:5371:ASN:N	2.81	0.42
2:b:5377:ASP:O	2:b:5388:SER:HA	2.20	0.42
23:b:6015:CLA:HAA1	23:b:6015:CLA:HBD	2.01	0.42
3:c:5086:LEU:HB3	3:c:5090:PRO:HD3	2.01	0.42
3:c:5217:PRO:O	30:c:6055:DGD:HG2	2.19	0.42
3:c:5305:THR:O	3:c:5308:GLU:N	2.52	0.42
3:c:5430:HIS:H	3:c:5430:HIS:HD1	1.68	0.42
3:c:5435:PHE:CD2	3:c:5436:PHE:HD2	2.37	0.42
23:c:6027:CLA:CBC	23:c:6027:CLA:CMC	2.93	0.42
4:d:5113:PHE:CE1	4:d:5117:HIS:ND1	2.87	0.42
4:d:5236:ASN:HB3	4:d:5237:PRO:HA	2.00	0.42
4:d:5281:MET:CE	4:d:5281:MET:HA	2.44	0.42
8:i:5030:ARG:HA	8:i:5030:ARG:HH11	1.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5070:CYS:N	13:o:5266:TYR:O	2.51	0.42
13:o:5071:LEU:CD2	13:o:5223:ILE:HD11	2.49	0.42
15:u:5097:LEU:HA	15:u:5101:GLN:OE1	2.19	0.42
15:u:5112:PHE:N	15:u:5112:PHE:HD2	2.17	0.42
1:A:58:VAL:HG12	1:A:59:ASP:N	2.34	0.42
1:A:157:VAL:HG13	1:A:172:MET:CB	2.48	0.42
1:A:187:GLN:HB3	1:A:328:MET:HE1	2.00	0.42
1:A:268:SER:O	1:A:271:LEU:HB3	2.19	0.42
1:A:316:THR:HG22	4:D:75:THR:HB	2.02	0.42
23:A:1006:CLA:C20	26:D:1050:BCR:H402	2.49	0.42
24:A:1038:PHO:NC	4:D:209:LEU:HD12	2.35	0.42
27:A:1063:LHG:O9	27:A:1063:LHG:H102	2.19	0.42
2:B:53:ASN:HD21	2:B:58:GLN:NE2	2.17	0.42
2:B:324:LEU:HA	4:D:293:LEU:CD1	2.49	0.42
2:B:332:LYS:HA	2:B:437:LEU:HD13	2.01	0.42
2:B:335:GLY:O	2:B:432:PHE:HD2	2.02	0.42
2:B:371:THR:C	2:B:372:ASP:O	2.62	0.42
23:B:1024:CLA:H121	23:B:1024:CLA:H161	1.84	0.42
3:C:49:LEU:HA	3:C:52:ALA:HB3	2.00	0.42
3:C:59:LEU:O	23:C:1034:CLA:HED2	2.20	0.42
3:C:161:LEU:O	3:C:162:GLY:C	2.63	0.42
3:C:210:PHE:O	3:C:213:LEU:HD21	2.18	0.42
3:C:230:LEU:HA	3:C:233:VAL:HG12	2.01	0.42
3:C:403:SER:O	3:C:404:LEU:C	2.62	0.42
23:C:1037:CLA:C10	23:C:1037:CLA:C14	2.85	0.42
4:D:157:PHE:CE2	4:D:173:PHE:CE1	3.06	0.42
4:D:235:PHE:O	4:D:236:ASN:HB2	2.19	0.42
5:E:69:ARG:N	5:E:69:ARG:NE	2.68	0.42
13:O:59:ASP:CG	13:O:61:SER:HB3	2.44	0.42
13:O:129:PHE:CD2	13:O:129:PHE:C	2.96	0.42
13:O:188:ARG:HE	13:O:188:ARG:HB2	1.41	0.42
16:V:110:GLY:O	16:V:111:GLU:O	2.37	0.42
19:N:17:UNK:C	19:N:19:UNK:N	2.82	0.42
20:Z:55:GLY:C	20:Z:57:LEU:N	2.76	0.42
1:a:5071:LEU:O	1:a:5075:ASN:CA	2.67	0.42
1:a:5130:GLN:NE2	4:d:5256:ILE:CD1	2.81	0.42
1:a:5215:HIS:HD2	1:a:5275:LEU:HD11	1.83	0.42
1:a:5271:LEU:HD21	25:a:6043:PQ9:C1	2.49	0.42
23:a:6007:CLA:HBD	23:a:6007:CLA:HAA1	2.01	0.42
2:b:5053:TRP:HB2	2:b:5265:PHE:O	2.20	0.42
2:b:5100:LEU:HD13	2:b:5104:LEU:HG	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5178:VAL:HG11	2:b:5192:PRO:CB	2.49	0.42
2:b:5212:PHE:CE1	2:b:5216:VAL:HG21	2.54	0.42
2:b:5230:ASN:C	2:b:5230:ASN:ND2	2.77	0.42
2:b:5281:ILE:HG23	2:b:5306:LEU:HD22	2.01	0.42
23:b:6020:CLA:HAA1	23:b:6020:CLA:CBD	2.49	0.42
23:b:6024:CLA:H161	26:b:6048:BCR:H332	2.01	0.42
23:b:6024:CLA:HMB3	26:b:6048:BCR:H351	1.99	0.42
3:c:5117:VAL:O	3:c:5117:VAL:HG12	2.20	0.42
3:c:5182:PHE:N	3:c:5182:PHE:CD2	2.87	0.42
3:c:5263:ALA:H	8:i:5028:PRO:CG	2.28	0.42
23:c:6032:CLA:H2	23:c:6035:CLA:C2C	2.49	0.42
4:d:5043:LEU:HD13	4:d:5043:LEU:N	2.34	0.42
4:d:5113:PHE:CZ	4:d:5117:HIS:CE1	3.08	0.42
4:d:5302:GLU:CD	13:o:5199:ALA:HB1	2.45	0.42
5:e:5030:LEU:CD1	6:f:5032:PHE:HB2	2.49	0.42
31:e:6040:HEM:O1A	31:e:6040:HEM:HMA1	2.16	0.42
10:k:5028:ILE:HG22	10:k:5029:PRO:N	2.34	0.42
12:m:5025:LEU:O	12:m:5028:GLN:HG3	2.19	0.42
13:o:5092:VAL:HG22	13:o:5093:PRO:N	2.34	0.42
15:u:5058:ASN:CG	15:u:5085:TYR:H	2.27	0.42
16:v:5092:ARG:O	16:v:5098:LEU:HD11	2.19	0.42
16:v:5145:ILE:HD12	16:v:5145:ILE:N	2.33	0.42
1:A:91:LEU:HD23	30:C:1055:DGD:O2D	2.19	0.42
1:A:210:LEU:HD12	1:A:210:LEU:C	2.39	0.42
1:A:234:ASN:OD1	29:L:1061:MGE:O3D	2.30	0.42
1:A:273:PHE:C	1:A:275:LEU:H	2.27	0.42
23:B:1023:CLA:C7	26:B:1048:BCR:C34	2.91	0.42
3:C:354:GLU:C	3:C:356:MET:N	2.75	0.42
3:C:436:PHE:O	3:C:439:VAL:HG12	2.18	0.42
4:D:72:ASN:O	4:D:73:PHE:C	2.62	0.42
4:D:89:LEU:O	4:D:90:LEU:C	2.63	0.42
4:D:128:ARG:HH11	4:D:128:ARG:CG	2.32	0.42
26:D:1050:BCR:H363	6:F:33:PHE:HB3	2.02	0.42
6:F:40:MET:HE3	6:F:40:MET:HB2	1.84	0.42
10:K:35:LEU:C	10:K:38:VAL:HG23	2.44	0.42
13:O:169:LYS:HA	13:O:224:SER:HA	2.00	0.42
15:U:58:ASN:ND2	15:U:114:VAL:HG13	2.33	0.42
17:X:44:ASP:OD1	17:X:44:ASP:C	2.62	0.42
1:a:5045:THR:HG23	23:d:6005:CLA:H191	2.02	0.42
1:a:5260:PHE:O	1:a:5260:PHE:CD1	2.72	0.42
1:a:5271:LEU:C	1:a:5272:HIS:O	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5316:THR:O	1:a:5319:ASP:HB2	2.20	0.42
2:b:5329:LYS:O	2:b:5436:SER:OG	2.32	0.42
23:b:6009:CLA:C4B	26:h:6049:BCR:C38	2.98	0.42
3:c:5062:PHE:CB	3:c:5122:SER:OG	2.66	0.42
3:c:5113:VAL:HG22	3:c:5114:VAL:HG23	2.01	0.42
3:c:5209:ILE:HD12	3:c:5209:ILE:H	1.83	0.42
3:c:5287:THR:O	3:c:5287:THR:CG2	2.67	0.42
23:c:6029:CLA:C15	23:c:6029:CLA:C19	2.30	0.42
4:d:5058:TRP:NE1	5:e:5064:PRO:HD2	2.34	0.42
4:d:5067:TYR:CZ	29:d:6059:MGE:H1G1	2.55	0.42
4:d:5082:ALA:C	4:d:5084:SER:N	2.76	0.42
4:d:5089:LEU:HG	4:d:5091:LEU:HD11	2.00	0.42
4:d:5236:ASN:CB	4:d:5237:PRO:HA	2.49	0.42
5:e:5008:ARG:HG3	5:e:5009:PRO:HD2	2.01	0.42
9:j:5015:THR:O	9:j:5019:MET:CG	2.62	0.42
11:l:5022:LEU:HD23	11:l:5023:LEU:N	2.34	0.42
13:o:5209:ALA:O	13:o:5212:ASN:N	2.52	0.42
13:o:5230:VAL:HG22	13:o:5237:ILE:HB	2.02	0.42
16:v:5038:LEU:C	16:v:5094:ASN:HB2	2.45	0.42
1:A:143:ILE:CD1	4:D:216:ALA:O	2.68	0.42
1:A:152:ALA:HA	30:C:1055:DGD:HBS2	2.02	0.42
1:A:244:GLU:O	1:A:245:THR:C	2.62	0.42
1:A:257:ARG:NH2	1:A:261:GLN:OE1	2.52	0.42
23:A:1003:CLA:H111	23:D:1005:CLA:HMB3	2.02	0.42
2:B:156:PHE:O	2:B:160:GLY:N	2.45	0.42
2:B:162:PHE:O	23:B:1014:CLA:HMD3	2.18	0.42
2:B:256:MET:CE	2:B:268:PHE:HD1	2.33	0.42
2:B:455:HIS:HD1	2:B:455:HIS:H	1.68	0.42
23:B:1020:CLA:HMA1	23:B:1020:CLA:CGA	2.35	0.42
3:C:50:LEU:C	3:C:52:ALA:H	2.27	0.42
3:C:169:GLY:O	3:C:173:LEU:HG	2.19	0.42
3:C:254:THR:HG22	3:C:255:THR:N	2.33	0.42
3:C:419:PHE:CD1	3:C:419:PHE:C	2.97	0.42
23:C:1033:CLA:H193	23:C:1036:CLA:HHD	2.02	0.42
4:D:45:LEU:O	4:D:49:LEU:HD12	2.20	0.42
4:D:56:THR:HA	4:D:69:GLU:OE2	2.20	0.42
4:D:63:LEU:HD23	4:D:64:ALA:N	2.34	0.42
4:D:156:VAL:CG2	23:D:1004:CLA:HED2	2.50	0.42
4:D:251:ARG:NE	4:D:255:GLN:NE2	2.55	0.42
4:D:287:VAL:CG2	4:D:288:GLY:N	2.80	0.42
4:D:322:ASN:O	4:D:326:ARG:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:D:1050:BCR:C39	29:J:1059:MGE:H6B1	2.49	0.42
8:I:13:THR:O	8:I:15:PHE:N	2.52	0.42
8:I:16:VAL:HG23	8:I:17:LEU:H	1.83	0.42
12:M:7:GLY:O	12:M:8:PHE:O	2.37	0.42
13:O:92:VAL:HG22	13:O:93:PRO:CD	2.49	0.42
13:O:113:VAL:HG22	13:O:119:LEU:CD2	2.50	0.42
14:T:4:ILE:HG23	14:T:5:THR:N	2.35	0.42
1:a:5027:ARG:O	1:a:5028:LEU:HD23	2.19	0.42
1:a:5200:LEU:HA	1:a:5203:ALA:CB	2.50	0.42
2:b:5076:SER:C	2:b:5078:THR:N	2.77	0.42
2:b:5122:ASP:OD1	7:h:5016:SER:O	2.38	0.42
2:b:5138:ILE:H	2:b:5138:ILE:HG13	1.60	0.42
2:b:5147:CYS:O	2:b:5148:PHE:C	2.63	0.42
2:b:5377:ASP:OD1	2:b:5387:TYR:HB2	2.20	0.42
2:b:5453:ALA:HB3	2:b:5454:VAL:H	1.48	0.42
2:b:5457:LEU:HD23	2:b:5457:LEU:C	2.44	0.42
3:c:5053:HIS:NE2	23:c:6033:CLA:NB	2.68	0.42
3:c:5155:ASN:O	3:c:5156:LYS:C	2.63	0.42
3:c:5230:LEU:C	3:c:5233:VAL:HG12	2.45	0.42
3:c:5310:SER:O	3:c:5355:THR:HG23	2.20	0.42
4:d:5077:ALA:CA	4:d:5173:PHE:O	2.66	0.42
4:d:5164:GLN:NE2	4:d:5292:ASN:ND2	2.68	0.42
23:d:6005:CLA:H91	23:d:6005:CLA:H121	2.02	0.42
25:d:6042:PQ9:H241	25:d:6042:PQ9:H261	1.72	0.42
5:e:5012:ASP:O	5:e:5015:THR:N	2.44	0.42
5:e:5035:TRP:CG	6:f:5039:ALA:HB2	2.54	0.42
6:f:5028:VAL:N	6:f:5029:PRO:CD	2.83	0.42
7:h:5025:TRP:O	7:h:5027:THR:N	2.53	0.42
13:o:5188:ARG:N	13:o:5194:TYR:HB2	2.35	0.42
17:x:5011:THR:C	17:x:5012:ILE:HG22	2.42	0.42
1:A:27:ARG:HH11	1:A:27:ARG:CB	2.31	0.42
1:A:97:TRP:CB	8:I:1:MET:HE2	2.50	0.42
1:A:112:TYR:O	1:A:113:GLN:C	2.62	0.42
1:A:310:LYS:CB	16:V:28:GLU:HG3	2.50	0.42
24:A:1039:PHO:H143	4:D:173:PHE:CD1	2.55	0.42
2:B:10:THR:C	2:B:12:LEU:H	2.27	0.42
2:B:45:PHE:HA	2:B:58:GLN:OE1	2.19	0.42
2:B:56:TRP:O	2:B:56:TRP:HE3	2.02	0.42
2:B:99:ALA:HB1	23:B:1014:CLA:C2	2.36	0.42
2:B:101:ILE:HG23	26:B:1047:BCR:C37	2.50	0.42
2:B:149:LEU:HD22	23:B:1012:CLA:H162	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:461:LEU:HD23	4:D:280:TRP:HZ3	1.85	0.42
23:B:1011:CLA:H101	23:B:1011:CLA:C14	2.45	0.42
23:B:1023:CLA:H52	23:B:1024:CLA:H193	2.01	0.42
23:B:1024:CLA:H161	26:B:1048:BCR:H332	2.01	0.42
26:B:1045:BCR:C30	26:B:1045:BCR:C37	2.61	0.42
26:B:1045:BCR:H331	26:B:1045:BCR:C10	2.50	0.42
26:B:1048:BCR:H371	26:B:1048:BCR:H24C	1.59	0.42
3:C:89:ILE:CB	3:C:90:PRO:HD3	2.39	0.42
3:C:113:VAL:HG23	3:C:114:VAL:N	2.35	0.42
3:C:178:LYS:O	3:C:183:GLY:O	2.38	0.42
3:C:258:GLY:O	3:C:262:ARG:NH2	2.53	0.42
3:C:366:LEU:O	3:C:367:GLU:C	2.62	0.42
3:C:390:ARG:O	3:C:393:ALA:HB3	2.20	0.42
3:C:428:THR:O	3:C:429:SER:C	2.63	0.42
4:D:16:ASP:O	4:D:20:ASP:CG	2.62	0.42
4:D:150:ILE:O	4:D:154:VAL:CG2	2.66	0.42
5:E:32:ILE:HA	5:E:35:TRP:HB3	2.02	0.42
7:H:31:MET:HE3	7:H:35:MET:CE	2.49	0.42
12:M:4:ASN:C	12:M:6:LEU:H	2.27	0.42
12:M:31:SER:C	12:M:33:GLN:N	2.78	0.42
13:O:187:GLY:CA	13:O:194:TYR:HB2	2.50	0.42
31:V:1041:HEM:CMA	31:V:1041:HEM:CBA	2.97	0.42
20:Z:5:PHE:CD1	20:Z:57:LEU:HD22	2.54	0.42
1:a:5064:ARG:HG2	1:a:5064:ARG:NH2	2.21	0.42
1:a:5139:MET:HE2	4:d:5221:THR:HA	2.01	0.42
1:a:5183:MET:C	23:a:6003:CLA:HBC1	2.45	0.42
1:a:5223:LEU:HD23	4:d:5265:ARG:HD3	1.93	0.42
2:b:5125:THR:OG1	2:b:5126:GLY:N	2.53	0.42
2:b:5437:ASP:OD1	2:b:5441:ARG:NH2	2.52	0.42
23:b:6016:CLA:H143	23:b:6016:CLA:H162	1.62	0.42
3:c:5036:TRP:CD1	3:c:5037:ALA:H	2.33	0.42
3:c:5059:LEU:HB3	23:c:6034:CLA:O1D	2.19	0.42
3:c:5109:PHE:C	3:c:5111:PHE:N	2.78	0.42
3:c:5134:ILE:HD12	3:c:5134:ILE:N	2.35	0.42
3:c:5159:THR:O	3:c:5160:ILE:C	2.62	0.42
3:c:5272:LEU:O	3:c:5272:LEU:HD12	2.20	0.42
3:c:5369:LEU:O	3:c:5369:LEU:HD13	2.20	0.42
3:c:5464:GLU:CG	3:c:5467:LEU:HB2	2.44	0.42
23:c:6030:CLA:CAB	23:c:6031:CLA:HMA2	2.49	0.42
23:c:6036:CLA:H62	23:c:6036:CLA:H41	1.72	0.42
4:d:5123:ILE:O	4:d:5124:GLY:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5263:ASN:C	4:d:5265:ARG:N	2.77	0.42
12:m:5006:LEU:HA	12:m:5009:ILE:HD12	2.01	0.42
13:o:5119:LEU:N	13:o:5119:LEU:HD23	2.35	0.42
15:u:5113:THR:CG2	15:u:5114:VAL:H	2.32	0.42
16:v:5130:MET:O	16:v:5131:ARG:C	2.63	0.42
1:A:32:TRP:O	1:A:35:VAL:HG23	2.20	0.42
1:A:33:PHE:HE1	8:I:23:PHE:CE2	2.37	0.42
1:A:96:ILE:HG23	1:A:97:TRP:N	2.34	0.42
27:A:1063:LHG:H272	23:C:1032:CLA:H62	2.02	0.42
2:B:63:LEU:O	2:B:64:PRO:C	2.61	0.42
2:B:154:GLY:HA2	2:B:158:LEU:HB2	2.02	0.42
2:B:236:THR:HG23	2:B:237:VAL:N	2.34	0.42
2:B:256:MET:SD	2:B:268:PHE:HD1	2.43	0.42
2:B:281:GLN:O	2:B:284:ILE:HG12	2.20	0.42
2:B:473:THR:HG21	23:B:1016:CLA:CED	2.50	0.42
3:C:460:ASP:C	3:C:462:GLU:H	2.28	0.42
23:C:1028:CLA:H43	30:C:1057:DGD:HA42	1.99	0.42
23:C:1032:CLA:H2A	23:C:1032:CLA:HED1	1.72	0.42
23:C:1032:CLA:H2	23:C:1035:CLA:HAC1	2.01	0.42
4:D:175:VAL:HG12	4:D:179:PHE:CZ	2.55	0.42
4:D:266:TRP:C	4:D:268:HIS:N	2.77	0.42
4:D:274:VAL:CB	4:D:275:PRO:CD	2.86	0.42
4:D:300:SER:C	4:D:303:ILE:HD11	2.45	0.42
23:D:1005:CLA:H42	25:D:1042:PQ9:H191	2.01	0.42
5:E:80:LEU:C	5:E:82:GLN:N	2.77	0.42
7:H:38:PHE:CD1	26:H:1049:BCR:C10	3.01	0.42
12:M:9:ILE:HG12	12:m:5008:PHE:CE2	2.55	0.42
15:U:39:LEU:N	15:U:39:LEU:CD1	2.71	0.42
16:V:132:ASN:O	16:V:133:LEU:O	2.38	0.42
1:a:5060:ILE:HG22	1:a:5084:PRO:HB2	2.01	0.42
1:a:5261:GLN:O	1:a:5262:TYR:HB2	2.20	0.42
1:a:5291:SER:O	1:a:5294:ALA:HB3	2.19	0.42
1:a:5315:ASN:C	4:d:5063:LEU:HG	2.44	0.42
1:a:5319:ASP:O	1:a:5322:ASN:CB	2.68	0.42
23:a:6006:CLA:H122	23:a:6006:CLA:H161	1.58	0.42
2:b:5100:LEU:CD1	2:b:5104:LEU:CD1	2.98	0.42
2:b:5185:ASP:C	2:b:5187:PHE:N	2.77	0.42
2:b:5381:ARG:CG	13:o:5192:SER:OG	2.68	0.42
23:b:6011:CLA:C17	23:b:6016:CLA:HBC1	2.29	0.42
23:b:6022:CLA:H13	23:b:6022:CLA:H171	1.79	0.42
3:c:5093:ALA:HB1	3:c:5301:PHE:CE1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5425:TRP:CH2	23:c:6028:CLA:O1A	2.73	0.42
4:d:5034:GLY:HA2	4:d:5038:PHE:HD1	1.85	0.42
4:d:5093:TRP:CH2	23:d:6008:CLA:O1A	2.70	0.42
7:h:5011:LEU:HA	7:h:5011:LEU:HD12	1.81	0.42
15:u:5067:GLN:HB2	15:u:5067:GLN:HE21	1.62	0.42
16:v:5030:THR:O	16:v:5034:LEU:HD13	2.20	0.42
16:v:5038:LEU:HB3	16:v:5045:ILE:CG2	2.50	0.42
20:z:5007:LEU:HA	20:z:5010:ALA:HB3	2.02	0.42
20:z:5044:SER:O	20:z:5048:ILE:HD11	2.18	0.42
1:A:214:MET:HB3	25:A:1043:PQ9:H12	2.01	0.42
1:A:258:LEU:HA	4:D:128:ARG:HH12	1.85	0.42
1:A:259:ILE:O	1:A:260:PHE:O	2.38	0.42
1:A:285:PHE:HZ	23:C:1034:CLA:H203	1.84	0.42
2:B:144:PHE:HA	2:B:213:GLY:HA3	2.02	0.42
2:B:222:PRO:CG	2:B:225:LEU:HD12	2.33	0.42
23:B:1023:CLA:H162	7:H:7:LEU:HD11	2.01	0.42
3:C:174:LEU:O	3:C:177:ALA:N	2.52	0.42
3:C:178:LYS:HA	3:C:178:LYS:HD2	1.88	0.42
3:C:185:LEU:C	3:C:196:VAL:HG23	2.45	0.42
3:C:270:ALA:O	3:C:274:TYR:CD1	2.72	0.42
4:D:85:MET:HE1	5:E:69:ARG:HA	2.01	0.42
4:D:213:ILE:C	4:D:213:ILE:HD12	2.45	0.42
4:D:251:ARG:HG2	4:D:255:GLN:OE1	2.20	0.42
5:E:16:SER:HB3	5:E:19:TYR:HB2	2.02	0.42
7:H:18:TYR:CD2	7:H:18:TYR:C	2.97	0.42
10:K:15:TYR:OH	20:Z:58:ASN:OD1	2.32	0.42
10:K:37:PHE:HB3	26:K:1051:BCR:H402	2.02	0.42
29:L:1061:MGE:H263	29:L:1061:MGE:H212	2.00	0.42
13:O:65:ARG:CD	13:O:110:GLU:HA	2.50	0.42
13:O:97:VAL:CG1	13:O:98:THR:H	2.33	0.42
20:Z:3:ILE:C	20:Z:5:PHE:N	2.78	0.42
20:Z:3:ILE:O	20:Z:5:PHE:N	2.53	0.42
20:Z:17:PHE:O	20:Z:17:PHE:CD2	2.65	0.42
20:Z:55:GLY:CA	26:Z:1053:BCR:C31	2.89	0.42
1:a:5160:ILE:CD1	1:a:5160:ILE:H	2.33	0.42
1:a:5244:GLU:O	1:a:5246:TYR:N	2.53	0.42
1:a:5298:ASN:OD1	1:a:5298:ASN:N	2.53	0.42
2:b:5037:TYR:O	2:b:5038:GLU:C	2.62	0.42
2:b:5092:GLY:O	2:b:5096:ALA:HB2	2.20	0.42
2:b:5269:ARG:HD3	2:b:5269:ARG:C	2.45	0.42
2:b:5448:PHE:HA	23:b:6015:CLA:HMB1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:b:6013:CLA:H72	23:b:6020:CLA:C17	2.50	0.42
23:c:6033:CLA:H193	23:c:6036:CLA:HHD	2.02	0.42
4:d:5053:THR:CB	4:d:5067:TYR:CD2	2.97	0.42
4:d:5087:HIS:HD2	30:h:6058:DGD:O2D	2.03	0.42
4:d:5259:ILE:CD1	14:t:5021:ILE:HG23	2.50	0.42
4:d:5273:PHE:CG	4:d:5277:THR:OG1	2.71	0.42
4:d:5336:HIS:H	4:d:5336:HIS:HD2	1.64	0.42
5:e:5023:HIS:NE2	31:e:6040:HEM:NC	2.68	0.42
7:h:5019:GLY:O	7:h:5021:VAL:N	2.53	0.42
10:k:5021:LEU:O	10:k:5022:VAL:C	2.62	0.42
11:l:5028:ALA:CB	12:m:5015:VAL:HG22	2.49	0.42
13:o:5141:ARG:HG3	13:o:5141:ARG:HH11	1.84	0.42
13:o:5179:THR:CG2	13:o:5180:ALA:N	2.53	0.42
15:u:5068:TYR:C	15:u:5071:LEU:HD13	2.45	0.42
20:z:5017:PHE:C	20:z:5017:PHE:CD2	2.98	0.42
1:A:37:MET:O	1:A:41:LEU:CD2	2.68	0.41
1:A:126:TYR:O	1:A:130:GLN:CB	2.67	0.41
1:A:281:VAL:CG1	1:A:282:GLY:N	2.82	0.41
1:A:317:TRP:C	1:A:319:ASP:N	2.77	0.41
23:A:1007:CLA:HAA1	23:A:1007:CLA:HBD	2.01	0.41
2:B:56:TRP:CE3	2:B:56:TRP:C	2.98	0.41
2:B:75:TRP:CD1	2:B:92:SER:OG	2.68	0.41
2:B:150:CYS:CA	23:B:1011:CLA:HBC3	2.50	0.41
2:B:223:GLN:HG2	7:H:24:GLY:HA2	2.01	0.41
2:B:256:MET:HE3	2:B:448:ARG:CZ	2.50	0.41
2:B:390:TYR:O	2:B:391:SER:O	2.38	0.41
2:B:400:SER:HB2	2:B:402:TYR:HE2	1.85	0.41
23:B:1009:CLA:CED	23:B:1009:CLA:C2A	2.94	0.41
23:B:1022:CLA:HAC2	29:L:1061:MGE:H122	2.02	0.41
3:C:86:LEU:HD12	3:C:86:LEU:N	2.34	0.41
3:C:166:ILE:O	3:C:170:ILE:HG13	2.20	0.41
3:C:186:TYR:HE2	3:C:188:THR:HB	1.85	0.41
3:C:449:ARG:HG2	23:C:1029:CLA:HED1	2.01	0.41
23:C:1025:CLA:HMD3	23:C:1026:CLA:H42	1.96	0.41
23:C:1027:CLA:HAA2	23:C:1027:CLA:HMA3	1.30	0.41
4:D:20:ASP:HA	4:D:23:LYS:HZ2	1.84	0.41
4:D:94:GLY:C	4:D:96:GLU:H	2.28	0.41
4:D:218:VAL:O	4:D:221:THR:CG2	2.67	0.41
23:D:1005:CLA:H121	23:D:1005:CLA:H91	2.02	0.41
5:E:37:PHE:CE2	5:E:46:VAL:HG21	2.55	0.41
5:E:53:ASP:O	16:V:28:GLU:OE1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:72:ALA:O	5:E:75:GLN:HB2	2.20	0.41
6:F:11:VAL:CG1	6:F:12:SER:N	2.81	0.41
7:H:39:LEU:HD22	7:H:39:LEU:HA	1.72	0.41
7:H:40:VAL:CG2	17:X:23:LEU:HD21	2.50	0.41
9:J:12:ILE:CD1	18:Y:34:MET:HE1	2.47	0.41
26:K:1052:BCR:H331	26:K:1052:BCR:C34	2.50	0.41
11:L:1:MET:O	11:L:1:MET:HG2	2.20	0.41
16:V:83:GLU:O	16:V:84:THR:C	2.63	0.41
1:a:5054:ALA:O	1:a:5056:PRO:HD3	2.20	0.41
1:a:5139:MET:O	1:a:5140:ARG:C	2.63	0.41
1:a:5252:HIS:HD2	1:a:5265:PHE:O	2.03	0.41
1:a:5255:PHE:C	1:a:5257:ARG:N	2.77	0.41
1:a:5258:LEU:CA	4:d:5128:ARG:HH12	2.33	0.41
23:a:6006:CLA:H92	24:a:6039:PHO:HMB3	2.02	0.41
2:b:5070:GLY:HA3	2:b:5085:PRO:HD2	2.02	0.41
2:b:5222:LEU:HD11	7:h:5028:THR:OG1	2.20	0.41
2:b:5320:GLY:C	4:d:5293:LEU:HD22	2.45	0.41
23:b:6023:CLA:C7	26:b:6048:BCR:C34	2.91	0.41
3:c:5204:LEU:HD22	3:c:5204:LEU:N	2.35	0.41
3:c:5218:PHE:HB3	3:c:5219:GLY:H	1.58	0.41
3:c:5455:PHE:CZ	8:i:5031:ASN:HB2	2.40	0.41
23:c:6026:CLA:HBB2	23:c:6034:CLA:H11	2.02	0.41
23:c:6033:CLA:C19	23:c:6033:CLA:H143	2.49	0.41
4:d:5065:SER:HB3	4:d:5077:ALA:O	2.20	0.41
4:d:5130:PHE:CE2	4:d:5140:PRO:HB2	2.35	0.41
4:d:5157:PHE:HE2	4:d:5173:PHE:CE1	2.38	0.41
4:d:5159:ILE:HG22	30:h:6058:DGD:HBF2	2.02	0.41
5:e:5005:THR:HG21	5:e:5007:GLU:OE1	2.20	0.41
7:h:5040:VAL:HG12	7:h:5041:PHE:H	1.84	0.41
8:i:5009:TYR:O	8:i:5010:ILE:C	2.63	0.41
13:o:5163:THR:O	13:o:5164:THR:C	2.62	0.41
15:u:5101:GLN:HA	15:u:5104:ILE:HG13	2.02	0.41
16:v:5144:HIS:O	16:v:5148:GLU:HG2	2.20	0.41
1:A:96:ILE:HG13	1:A:105:TRP:CE2	2.55	0.41
1:A:157:VAL:HG21	23:D:1005:CLA:HMC2	2.02	0.41
1:A:186:PHE:CE2	1:A:190:HIS:CD2	3.07	0.41
1:A:252:HIS:O	1:A:253:GLY:C	2.63	0.41
1:A:254:TYR:O	1:A:257:ARG:N	2.53	0.41
1:A:272:HIS:CD2	4:D:214:HIS:NE2	2.88	0.41
1:A:308:ASP:CG	1:A:309:ALA:N	2.77	0.41
23:A:1006:CLA:H18	26:D:1050:BCR:C29	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:9:HIS:ND1	23:B:1019:CLA:H11	2.34	0.41
2:B:27:THR:OG1	23:B:1020:CLA:H11	2.20	0.41
2:B:97:ALA:O	2:B:98:LEU:C	2.63	0.41
2:B:107:LEU:O	2:B:108:PHE:C	2.62	0.41
2:B:118:TRP:CH2	11:L:5:PRO:CD	2.98	0.41
2:B:119:ASP:O	2:B:120:LEU:HD23	2.20	0.41
2:B:210:ILE:HD13	2:B:210:ILE:HA	1.91	0.41
2:B:226:TYR:CE2	2:B:231:MET:O	2.70	0.41
2:B:464:PHE:CD2	29:B:1060:MGE:H5B1	2.53	0.41
23:B:1012:CLA:H112	23:B:1023:CLA:O1A	2.20	0.41
4:D:67:TYR:CZ	29:J:1059:MGE:H1G1	2.53	0.41
4:D:202:ALA:HB3	25:D:1042:PQ9:H311	2.02	0.41
4:D:205:LEU:HB2	23:D:1005:CLA:H12	2.02	0.41
17:X:20:PHE:O	17:X:23:LEU:N	2.52	0.41
20:Z:5:PHE:HD1	20:Z:57:LEU:HD13	1.85	0.41
1:a:5106:LEU:HA	1:a:5106:LEU:HD23	1.77	0.41
1:a:5121:LEU:HD23	1:a:5122:GLY:N	2.35	0.41
1:a:5244:GLU:O	1:a:5245:THR:C	2.63	0.41
2:b:5056:GLY:O	23:b:6015:CLA:HED1	2.20	0.41
2:b:5458:LEU:HD23	2:b:5458:LEU:HA	1.87	0.41
23:b:6019:CLA:C5	23:b:6021:CLA:CED	2.94	0.41
23:b:6024:CLA:HMB1	26:b:6048:BCR:H351	2.02	0.41
3:c:5062:PHE:HA	3:c:5122:SER:CB	2.47	0.41
3:c:5109:PHE:O	3:c:5110:PRO:C	2.62	0.41
3:c:5257:PHE:C	3:c:5261:ARG:NH1	2.78	0.41
3:c:5431:PHE:C	3:c:5431:PHE:CD2	2.98	0.41
23:c:6027:CLA:CBA	23:c:6027:CLA:HBD	2.50	0.41
23:c:6028:CLA:H91	23:c:6028:CLA:H111	1.68	0.41
23:c:6034:CLA:H12	23:c:6034:CLA:C4D	2.50	0.41
4:d:5021:TRP:C	4:d:5021:TRP:CD2	2.97	0.41
5:e:5049:THR:HA	5:e:5050:PRO:HD3	1.80	0.41
6:f:5040:MET:HG2	6:f:5043:ILE:HD11	2.02	0.41
8:i:5013:THR:HG23	8:i:5014:PHE:N	2.34	0.41
13:o:5065:ARG:O	13:o:5270:GLU:N	2.54	0.41
16:v:5087:LEU:N	16:v:5087:LEU:HD12	2.34	0.41
20:z:5007:LEU:O	20:z:5011:ALA:HB2	2.19	0.41
26:z:6053:BCR:H371	26:z:6053:BCR:H24C	1.64	0.41
1:A:159:LEU:C	1:A:162:PRO:HD2	2.45	0.41
1:A:212:CYS:SG	4:D:271:MET:O	2.67	0.41
23:A:1006:CLA:H122	23:A:1006:CLA:H161	1.58	0.41
2:B:59:GLY:O	23:B:1015:CLA:HED2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:250:PHE:HZ	30:H:1058:DGD:CIA	2.25	0.41
2:B:250:PHE:HE2	23:B:1010:CLA:C20	2.31	0.41
3:C:214:LEU:HD23	3:C:214:LEU:O	2.20	0.41
3:C:236:GLY:O	3:C:237:HIS:C	2.63	0.41
3:C:428:THR:CG2	3:C:429:SER:H	2.21	0.41
23:C:1025:CLA:H41	23:C:1025:CLA:H61	1.86	0.41
23:C:1028:CLA:HMA1	23:C:1028:CLA:O1A	2.21	0.41
30:C:1056:DGD:HA72	30:C:1056:DGD:HAT1	1.20	0.41
4:D:39:PRO:HG2	4:D:40:CYS:H	1.85	0.41
23:D:1004:CLA:H93	23:D:1004:CLA:H62	1.88	0.41
25:D:1042:PQ9:H191	25:D:1042:PQ9:H212	1.97	0.41
7:H:15:ASN:ND2	7:H:15:ASN:O	2.53	0.41
7:H:61:SER:CB	30:H:1058:DGD:O3E	2.68	0.41
9:J:9:PRO:C	9:J:11:TRP:N	2.78	0.41
10:K:25:LEU:HB3	10:K:26:PRO:CD	2.49	0.41
13:O:92:VAL:CG2	13:O:93:PRO:CD	2.96	0.41
13:O:161:SER:O	13:O:163:THR:HG23	2.19	0.41
15:U:132:LEU:O	15:U:132:LEU:HD23	2.20	0.41
16:V:141:ILE:O	16:V:144:HIS:N	2.54	0.41
16:V:151:ILE:HG22	16:V:152:LEU:N	2.35	0.41
1:a:5041:LEU:HD22	1:a:5041:LEU:N	2.35	0.41
1:a:5056:PRO:O	1:a:5057:PRO:C	2.62	0.41
1:a:5194:MET:HE1	4:d:5074:LEU:CD1	2.51	0.41
1:a:5211:PHE:C	1:a:5213:ALA:N	2.77	0.41
1:a:5317:TRP:NE1	4:d:5079:SER:OG	2.53	0.41
2:b:5004:ARG:HD3	23:b:6019:CLA:HED3	2.02	0.41
2:b:5122:ASP:CB	2:b:5125:THR:HG22	2.49	0.41
2:b:5132:LEU:HA	2:b:5135:MET:HE3	2.01	0.41
2:b:5133:PRO:HG2	2:b:5218:PRO:HG3	2.02	0.41
2:b:5227:ARG:O	2:b:5228:MET:C	2.64	0.41
3:c:5236:GLY:O	3:c:5238:ILE:N	2.53	0.41
3:c:5317:PHE:O	3:c:5321:ASP:HB2	2.20	0.41
23:c:6028:CLA:HMA1	23:c:6028:CLA:O1A	2.21	0.41
23:c:6032:CLA:H2	23:c:6035:CLA:HAC1	2.01	0.41
4:d:5046:GLY:O	4:d:5047:GLY:C	2.63	0.41
4:d:5123:ILE:O	4:d:5127:LEU:HD23	2.20	0.41
4:d:5278:GLY:O	4:d:5281:MET:N	2.53	0.41
4:d:5280:TRP:O	4:d:5283:ALA:HB3	2.21	0.41
23:d:6008:CLA:HAA1	23:d:6008:CLA:CBD	2.50	0.41
8:i:5006:ILE:HA	8:i:5009:TYR:HB2	2.01	0.41
11:l:5007:ARG:HE	11:l:5007:ARG:CA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5065:ARG:HH22	13:o:5066:ILE:HG12	1.86	0.41
13:o:5265:PHE:CD1	13:o:5265:PHE:C	2.97	0.41
16:v:5083:GLU:O	16:v:5086:ALA:HB3	2.19	0.41
1:A:149:ALA:HA	1:A:284:TRP:HD1	1.81	0.41
1:A:152:ALA:O	1:A:153:SER:C	2.62	0.41
2:B:5:TRP:CD1	2:B:5:TRP:N	2.88	0.41
2:B:60:MET:HE2	23:B:1015:CLA:HED1	2.03	0.41
26:B:1047:BCR:C38	26:t:1046:BCR:C13	2.98	0.41
3:C:72:LEU:C	3:C:74:HIS:N	2.78	0.41
3:C:185:LEU:O	3:C:196:VAL:HG23	2.21	0.41
3:C:289:PHE:HE2	3:C:293:ASN:HD22	1.66	0.41
23:C:1025:CLA:H203	23:C:1031:CLA:H152	2.01	0.41
4:D:29:PHE:CD1	4:D:30:VAL:N	2.88	0.41
5:E:34:GLY:C	5:E:36:LEU:N	2.76	0.41
5:E:75:GLN:O	5:E:79:PHE:HD1	2.03	0.41
7:H:49:TYR:C	7:H:51:SER:N	2.78	0.41
8:I:4:LEU:CD1	8:I:8:VAL:HG23	2.50	0.41
9:J:9:PRO:O	9:J:10:LEU:C	2.64	0.41
12:M:11:THR:HG22	12:M:12:ALA:H	1.82	0.41
14:T:1:MET:HB2	14:T:2:GLU:H	1.40	0.41
14:T:12:CYS:O	14:T:13:ILE:C	2.63	0.41
14:T:12:CYS:C	14:T:14:ILE:N	2.77	0.41
16:V:121:LEU:HD13	16:V:121:LEU:HA	1.81	0.41
16:V:132:ASN:O	16:V:133:LEU:C	2.64	0.41
31:V:1041:HEM:HBA2	31:V:1041:HEM:CMA	2.50	0.41
20:Z:12:LEU:HD12	20:Z:51:VAL:CA	2.50	0.41
1:a:5059:ASP:O	1:a:5059:ASP:CG	2.61	0.41
1:a:5320:ILE:O	1:a:5321:ILE:C	2.63	0.41
2:b:5020:HIS:O	2:b:5024:THR:HB	2.20	0.41
2:b:5156:THR:O	2:b:5156:THR:CG2	2.67	0.41
2:b:5230:ASN:O	2:b:5231:ILE:C	2.64	0.41
2:b:5385:SER:C	2:b:5391:GLN:HE22	2.28	0.41
2:b:5410:ASP:C	2:b:5412:PRO:HD2	2.45	0.41
2:b:5464:ILE:O	2:b:5468:ALA:CB	2.68	0.41
23:b:6011:CLA:HBB1	23:b:6013:CLA:C17	2.39	0.41
23:b:6021:CLA:HAA2	23:b:6021:CLA:CBD	2.49	0.41
23:b:6022:CLA:C9	23:b:6022:CLA:C3	2.96	0.41
23:b:6023:CLA:C9	23:b:6023:CLA:H122	2.38	0.41
3:c:5076:ILE:CG2	3:c:5077:PRO:HD2	2.35	0.41
3:c:5088:LEU:CD2	23:c:6027:CLA:HMC3	2.48	0.41
3:c:5099:VAL:HG23	3:c:5100:GLY:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5118:HIS:HA	3:c:5121:SER:HB3	2.03	0.41
3:c:5133:ALA:HB3	3:c:5134:ILE:HD12	2.02	0.41
3:c:5134:ILE:HG22	20:z:5027:TYR:HB2	2.01	0.41
3:c:5287:THR:OG1	3:c:5430:HIS:HB2	2.20	0.41
3:c:5297:TYR:CB	3:c:5423:ARG:HH22	2.33	0.41
3:c:5429:SER:HA	30:c:6056:DGD:C9A	2.50	0.41
23:c:6035:CLA:C9	26:k:6052:BCR:H402	2.42	0.41
4:d:5056:THR:HG21	5:e:5050:PRO:CD	2.46	0.41
4:d:5129:GLN:NE2	4:d:5142:ASN:CG	2.78	0.41
4:d:5235:PHE:CZ	4:d:5243:THR:HG22	2.56	0.41
29:d:6062:MGE:H6A1	14:t:5017:PHE:CD2	2.55	0.41
5:e:5029:ALA:O	5:e:5033:ALA:HB2	2.21	0.41
5:e:5032:ILE:O	5:e:5036:LEU:HG	2.20	0.41
7:h:5024:GLY:C	7:h:5026:GLY:H	2.28	0.41
13:o:5070:CYS:C	13:o:5071:LEU:HD12	2.46	0.41
13:o:5215:ARG:N	13:o:5215:ARG:CD	2.78	0.41
15:u:5067:GLN:HB3	15:u:5068:TYR:CD1	2.54	0.41
16:v:5143:GLY:C	16:v:5147:VAL:HG23	2.45	0.41
17:x:5024:LEU:O	17:x:5025:SER:C	2.61	0.41
18:y:5014:GLY:N	18:y:5015:PRO:HD3	2.36	0.41
18:y:5021:LEU:HD21	20:z:5025:VAL:CG2	2.48	0.41
1:A:38:ILE:HB	1:A:39:PRO:HD3	2.02	0.41
1:A:87:ASN:ND2	3:C:356:MET:HE3	2.35	0.41
1:A:197:PHE:CZ	30:C:1056:DGD:HAS1	2.55	0.41
1:A:237:TYR:C	1:A:237:TYR:HD2	2.26	0.41
2:B:362:PHE:CE1	4:D:184:PHE:CE1	3.08	0.41
23:B:1011:CLA:CAD	23:B:1011:CLA:HED2	2.48	0.41
23:B:1013:CLA:H72	23:B:1020:CLA:C17	2.50	0.41
3:C:224:ILE:CD1	3:C:285:ILE:HD11	2.40	0.41
3:C:287:THR:HG23	3:C:427:ALA:C	2.46	0.41
23:C:1025:CLA:C1B	23:C:1025:CLA:H42	2.46	0.41
30:C:1055:DGD:O1B	30:C:1055:DGD:HB41	2.17	0.41
4:D:59:TYR:N	4:D:59:TYR:CD1	2.89	0.41
4:D:94:GLY:C	4:D:96:GLU:N	2.75	0.41
4:D:190:ASN:HD21	4:D:193:LEU:HD22	1.85	0.41
4:D:199:MET:O	4:D:202:ALA:HB3	2.20	0.41
4:D:250:ASN:OD1	4:D:251:ARG:N	2.54	0.41
5:E:60:GLN:NE2	5:E:60:GLN:O	2.53	0.41
8:I:2:GLU:O	8:I:6:ILE:HD13	2.21	0.41
12:M:13:LEU:HD23	12:M:13:LEU:HA	1.83	0.41
13:O:55:ALA:HB1	13:O:162:ILE:C	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:O:109:GLY:HA3	13:O:123:GLU:CA	2.50	0.41
16:V:78:LEU:HD23	16:V:78:LEU:HA	1.74	0.41
16:V:159:GLY:HA2	16:V:163:TYR:CE1	2.52	0.41
20:Z:39:LEU:HD12	20:Z:42:LEU:CB	2.50	0.41
1:a:5252:HIS:O	1:a:5253:GLY:C	2.62	0.41
1:a:5260:PHE:O	1:a:5263:ALA:HB3	2.21	0.41
1:a:5300:PHE:CB	1:a:5302:PHE:CE1	2.92	0.41
24:a:6039:PHO:C9	4:d:5153:PHE:CE2	3.03	0.41
27:a:6063:LHG:H332	27:a:6063:LHG:H302	1.21	0.41
2:b:5255:TYR:C	2:b:5256:GLY:O	2.63	0.41
2:b:5441:ARG:HG2	2:b:5441:ARG:HH11	1.86	0.41
2:b:5466:HIS:C	2:b:5468:ALA:H	2.28	0.41
2:b:5474:ASP:O	2:b:5475:VAL:O	2.38	0.41
23:b:6016:CLA:O1A	23:b:6016:CLA:H3A	2.20	0.41
23:b:6020:CLA:H161	23:b:6020:CLA:H141	1.69	0.41
3:c:5062:PHE:HE1	3:c:5119:LEU:HD11	1.84	0.41
3:c:5146:PHE:C	3:c:5146:PHE:CD1	2.98	0.41
3:c:5196:VAL:HG13	3:c:5196:VAL:O	2.20	0.41
3:c:5220:GLY:O	3:c:5221:GLU:CG	2.67	0.41
3:c:5293:ASN:ND2	3:c:5296:VAL:HG22	2.36	0.41
3:c:5315:MET:O	3:c:5319:ILE:HG13	2.20	0.41
3:c:5439:VAL:HG13	23:c:6032:CLA:HBC2	2.02	0.41
23:c:6036:CLA:H92	23:c:6036:CLA:H111	1.75	0.41
30:c:6056:DGD:HD61	30:c:6056:DGD:C4E	2.39	0.41
4:d:5263:ASN:CG	4:d:5265:ARG:HB2	2.45	0.41
5:e:5007:GLU:HG2	5:e:5007:GLU:H	1.67	0.41
5:e:5037:PHE:CE2	5:e:5046:VAL:HG21	2.55	0.41
13:o:5250:ASP:O	13:o:5251:MET:C	2.63	0.41
15:u:5039:LEU:HD12	15:u:5039:LEU:O	2.20	0.41
15:u:5040:VAL:CG1	15:u:5041:ASN:N	2.84	0.41
15:u:5119:THR:O	15:u:5123:GLU:HB2	2.20	0.41
16:v:5038:LEU:HB3	16:v:5045:ILE:HG22	2.02	0.41
1:A:13:LEU:H	1:A:13:LEU:CD2	2.27	0.41
1:A:171:GLY:O	1:A:172:MET:C	2.63	0.41
1:A:245:THR:HG22	4:D:264:LYS:CD	2.48	0.41
24:A:1038:PHO:HAC2	24:A:1038:PHO:HMC2	1.67	0.41
2:B:72:THR:C	2:B:93:PHE:CE2	2.95	0.41
2:B:125:ASP:OD1	2:B:126:PRO:HD2	2.21	0.41
2:B:220:ARG:HG3	7:H:22:ALA:HB2	2.03	0.41
2:B:284:ILE:O	2:B:287:ARG:HB2	2.20	0.41
3:C:225:VAL:O	3:C:225:VAL:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:283:GLY:HA3	3:C:434:ALA:CB	2.35	0.41
3:C:325:GLY:C	15:U:128:TYR:HE2	2.28	0.41
30:C:1057:DGD:HD4	9:J:39:SER:HB3	2.03	0.41
4:D:42:TYR:CD2	4:D:43:LEU:HD13	2.55	0.41
4:D:156:VAL:HG21	23:D:1004:CLA:OBD	2.20	0.41
4:D:218:VAL:O	4:D:220:ASN:N	2.53	0.41
4:D:221:THR:HG23	4:D:222:LEU:H	1.86	0.41
6:F:19:ARG:C	6:F:19:ARG:HD3	2.45	0.41
13:O:259:VAL:HG12	13:O:261:ILE:HG13	2.03	0.41
16:V:141:ILE:O	16:V:144:HIS:HB3	2.21	0.41
16:V:158:GLY:HA3	16:V:162:TYR:HE2	1.85	0.41
1:a:5050:ILE:HG21	26:a:6044:BCR:H391	2.03	0.41
1:a:5093:PHE:HD2	1:a:5094:TYR:N	2.18	0.41
1:a:5149:ALA:HA	1:a:5284:TRP:CD1	2.55	0.41
1:a:5260:PHE:C	1:a:5261:GLN:O	2.63	0.41
23:a:6006:CLA:HED2	30:c:6057:DGD:CDB	2.35	0.41
2:b:5006:HIS:ND1	23:b:6020:CLA:HBB2	2.34	0.41
2:b:5066:LEU:HD23	2:b:5066:LEU:HA	1.81	0.41
2:b:5268:THR:O	2:b:5269:ARG:C	2.62	0.41
23:b:6022:CLA:HAC2	29:d:6061:MGE:H122	2.02	0.41
23:b:6024:CLA:H202	23:b:6024:CLA:H162	1.87	0.41
23:c:6035:CLA:HAA1	23:c:6035:CLA:CBD	2.50	0.41
4:d:5061:HIS:O	4:d:5062:GLY:C	2.64	0.41
4:d:5097:ALA:C	4:d:5099:GLY:N	2.77	0.41
4:d:5266:TRP:O	4:d:5270:PHE:N	2.42	0.41
29:d:6062:MGE:H3G1	11:l:5015:THR:CG2	2.50	0.41
11:l:5012:LEU:C	11:l:5012:LEU:CD1	2.92	0.41
12:m:5020:VAL:CG1	12:m:5021:PHE:N	2.84	0.41
16:v:5066:CYS:O	16:v:5067:HIS:CB	2.69	0.41
20:z:5005:PHE:C	20:z:5007:LEU:N	2.77	0.41
1:A:78:ILE:HD11	11:L:34:TYR:CE2	2.56	0.41
1:A:161:TYR:HD1	1:A:294:ALA:HA	1.86	0.41
2:B:230:ARG:NH1	2:B:230:ARG:CA	2.81	0.41
2:B:476:ARG:CG	2:B:477:ASP:N	2.83	0.41
23:B:1009:CLA:C4B	26:H:1049:BCR:C38	2.98	0.41
23:B:1023:CLA:NC	23:B:1024:CLA:HBC1	2.34	0.41
26:B:1045:BCR:C39	26:B:1045:BCR:H373	2.29	0.41
3:C:60:ILE:HG23	3:C:61:VAL:N	2.36	0.41
3:C:60:ILE:CD1	23:C:1027:CLA:HMD2	2.51	0.41
3:C:222:GLY:O	3:C:223:TRP:O	2.38	0.41
3:C:323:LYS:C	3:C:325:GLY:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:350:ILE:CD1	3:C:356:MET:HA	2.51	0.41
23:C:1025:CLA:C2D	23:C:1026:CLA:H71	2.51	0.41
4:D:91:LEU:HD12	23:D:1008:CLA:HED2	2.01	0.41
23:D:1005:CLA:H43	25:D:1042:PQ9:H191	2.01	0.41
29:D:1062:MGE:H1G2	11:L:15:THR:CG2	2.50	0.41
26:K:1051:BCR:C37	26:K:1051:BCR:C30	2.60	0.41
12:M:34:LYS:HE3	11:l:5009:PRO:CG	2.50	0.41
13:O:86:ARG:HD3	2:b:5401:GLY:O	2.20	0.41
13:O:98:THR:HG22	13:O:99:ARG:O	2.20	0.41
15:U:69:ARG:C	15:U:71:LEU:HD12	2.46	0.41
20:Z:26:ALA:C	20:Z:27:TYR:HD2	2.28	0.41
1:a:5037:MET:HG2	1:a:5041:LEU:CD2	2.51	0.41
1:a:5038:ILE:O	1:a:5039:PRO:C	2.63	0.41
1:a:5139:MET:CE	4:d:5221:THR:HA	2.50	0.41
1:a:5159:LEU:CG	1:a:5163:ILE:HD11	2.42	0.41
1:a:5272:HIS:H	1:a:5275:LEU:HG	1.85	0.41
27:a:6063:LHG:H272	23:c:6032:CLA:H62	2.02	0.41
2:b:5098:ILE:HG23	26:b:6047:BCR:H371	1.99	0.41
2:b:5315:ASN:HD22	2:b:5315:ASN:HA	1.78	0.41
2:b:5319:GLY:HA2	2:b:5441:ARG:HA	2.02	0.41
23:b:6009:CLA:CMC	23:b:6009:CLA:HBC2	2.51	0.41
23:b:6022:CLA:CMB	26:b:6045:BCR:H401	2.51	0.41
3:c:5249:ILE:O	3:c:5249:ILE:CG2	2.67	0.41
3:c:5366:LEU:O	3:c:5369:LEU:N	2.46	0.41
3:c:5419:PHE:O	3:c:5419:PHE:CD1	2.73	0.41
23:c:6025:CLA:C2D	23:c:6026:CLA:H71	2.51	0.41
23:c:6036:CLA:H161	23:c:6036:CLA:H202	1.69	0.41
4:d:5079:SER:HA	4:d:5172:SER:OG	2.21	0.41
4:d:5152:VAL:HG23	23:d:6004:CLA:O2D	2.21	0.41
5:e:5044:TYR:HB3	5:e:5051:ARG:HH21	1.84	0.41
5:e:5071:GLU:O	5:e:5072:ALA:C	2.63	0.41
7:h:5007:LEU:CD2	7:h:5011:LEU:HD13	2.50	0.41
7:h:5017:GLU:HG2	7:h:5020:LYS:HB3	2.02	0.41
13:o:5034:ASP:O	13:o:5035:ASP:C	2.64	0.41
13:o:5127:ILE:CD1	13:o:5127:ILE:H	2.34	0.41
13:o:5136:MET:HG3	13:o:5137:ALA:H	1.85	0.41
13:o:5209:ALA:HA	13:o:5212:ASN:ND2	2.29	0.41
14:t:5013:ILE:O	14:t:5013:ILE:HG22	2.21	0.41
15:u:5060:THR:O	15:u:5127:ARG:NH1	2.53	0.41
1:A:212:CYS:HB2	4:D:207:GLY:O	2.21	0.41
1:A:311:GLY:O	1:A:312:ASN:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:317:TRP:HA	4:D:63:LEU:HD11	2.02	0.41
2:B:35:GLY:O	2:B:39:LEU:HG	2.20	0.41
2:B:246:PHE:CD2	2:B:463:PHE:HA	2.55	0.41
2:B:257:TRP:CH2	4:D:291:LEU:CA	3.04	0.41
2:B:260:SER:O	2:B:262:THR:N	2.54	0.41
2:B:284:ILE:CG2	2:B:309:LEU:HD22	2.39	0.41
2:B:307:GLU:O	2:B:310:ALA:N	2.54	0.41
2:B:354:LEU:HA	2:B:372:ASP:HA	2.03	0.41
3:C:127:PHE:C	3:C:129:GLY:H	2.28	0.41
3:C:131:TYR:O	3:C:133:ALA:N	2.53	0.41
3:C:185:LEU:HD12	3:C:199:ILE:CD1	2.50	0.41
3:C:366:LEU:HD23	3:C:370:ARG:NH2	2.35	0.41
4:D:16:ASP:HA	4:D:19:ASP:HB3	2.03	0.41
4:D:55:VAL:HG11	4:D:105:CYS:SG	2.61	0.41
4:D:122:LEU:HD12	4:D:122:LEU:HA	1.83	0.41
4:D:189:HIS:CE1	4:D:294:ARG:NH1	2.89	0.41
4:D:195:PRO:HB3	11:L:31:PHE:CE1	2.56	0.41
5:E:19:TYR:O	5:E:23:HIS:HB2	2.21	0.41
5:E:49:THR:HA	5:E:50:PRO:HD3	1.79	0.41
13:O:55:ALA:HB1	13:O:162:ILE:O	2.20	0.41
14:T:15:ALA:O	14:T:18:PHE:N	2.53	0.41
16:V:29:LEU:HG	16:V:29:LEU:O	2.21	0.41
16:V:91:PRO:C	16:V:92:ARG:HD3	2.46	0.41
16:V:149:PRO:HD3	16:V:156:TRP:CD1	2.55	0.41
31:V:1041:HEM:HHC	31:V:1041:HEM:CBB	2.50	0.41
18:Y:19:ILE:CG2	18:Y:20:ALA:H	2.32	0.41
1:a:5029:TYR:CD2	1:a:5133:LEU:HD13	2.56	0.41
1:a:5223:LEU:HD22	1:a:5223:LEU:HA	1.86	0.41
23:a:6003:CLA:H162	23:a:6003:CLA:H143	1.86	0.41
26:a:6044:BCR:H403	26:a:6044:BCR:C22	2.40	0.41
2:b:5164:TRP:CE3	2:b:5264:LEU:HD21	2.55	0.41
2:b:5192:PRO:C	2:b:5194:GLY:N	2.79	0.41
2:b:5269:ARG:HE	2:b:5273:ASP:CG	2.29	0.41
23:b:6023:CLA:C14	23:b:6024:CLA:C8	2.90	0.41
3:c:5157:MET:HB3	23:c:6031:CLA:CBC	2.51	0.41
3:c:5281:MET:HE1	23:c:6030:CLA:H18	2.03	0.41
3:c:5283:GLY:HA3	23:c:6026:CLA:CBC	2.51	0.41
3:c:5321:ASP:CG	3:c:5340:TYR:HH	2.29	0.41
3:c:5410:VAL:O	3:c:5411:ALA:C	2.63	0.41
3:c:5461:ARG:NH2	4:d:5223:PHE:CD2	2.87	0.41
4:d:5029:PHE:CE2	4:d:5132:ILE:HG12	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5191:TRP:O	4:d:5193:LEU:N	2.54	0.41
4:d:5201:VAL:HA	23:d:6004:CLA:CMB	2.51	0.41
4:d:5350:ASN:O	4:d:5351:ALA:CB	2.66	0.41
30:h:6058:DGD:HE1	30:h:6058:DGD:HE61	1.82	0.41
14:t:5001:MET:HE2	14:t:5001:MET:HB2	1.60	0.41
15:u:5097:LEU:HB3	15:u:5102:LYS:CG	2.49	0.41
15:u:5115:THR:O	15:u:5116:GLU:C	2.62	0.41
16:v:5060:GLN:O	16:v:5064:ALA:HB2	2.21	0.41
20:z:5017:PHE:O	20:z:5017:PHE:HD2	2.03	0.41
1:A:60:ILE:CG1	1:A:61:ASP:N	2.53	0.41
1:A:83:VAL:HG23	4:D:314:PHE:HE1	1.85	0.41
1:A:99:ALA:CB	1:A:105:TRP:N	2.83	0.41
1:A:142:TRP:CH2	27:A:1063:LHG:HC11	2.55	0.41
1:A:160:ILE:HG13	3:C:431:PHE:CE1	2.55	0.41
1:A:195:HIS:CD2	1:A:293:MET:HE2	2.55	0.41
1:A:207:GLY:O	1:A:211:PHE:N	2.47	0.41
1:A:207:GLY:HA2	23:A:1006:CLA:H43	2.02	0.41
1:A:210:LEU:HD13	24:A:1039:PHO:ND	2.35	0.41
1:A:220:THR:HG22	4:D:141:TYR:CE2	2.56	0.41
1:A:271:LEU:HD21	25:A:1043:PQ9:C10	2.51	0.41
1:A:297:LEU:HD13	30:C:1056:DGD:HAW2	2.02	0.41
2:B:20:ILE:CG1	23:B:1023:CLA:HMD2	2.47	0.41
2:B:136:PRO:HG3	23:B:1018:CLA:HBC1	2.03	0.41
2:B:181:VAL:HB	2:B:199:VAL:HG21	2.03	0.41
2:B:239:SER:HB2	23:B:1016:CLA:HED2	2.02	0.41
2:B:359:MET:HB3	2:B:425:ILE:HG22	2.03	0.41
2:B:373:LYS:O	2:B:374:ASN:HB2	2.21	0.41
2:B:413:ASP:O	2:B:414:PRO:C	2.62	0.41
2:B:434:THR:HG23	13:O:204:LYS:HE2	2.02	0.41
2:B:475:PHE:O	2:B:476:ARG:C	2.64	0.41
2:B:478:VAL:HG12	4:D:139:ARG:CD	2.50	0.41
23:B:1011:CLA:H3A	23:B:1011:CLA:O2A	2.21	0.41
23:B:1016:CLA:HMD1	23:B:1018:CLA:HAB	2.02	0.41
23:B:1018:CLA:HAA2	23:B:1018:CLA:CBD	2.51	0.41
23:B:1019:CLA:C5	23:B:1021:CLA:CED	2.94	0.41
23:B:1021:CLA:HMA3	23:B:1021:CLA:C1	2.51	0.41
23:B:1024:CLA:HMB1	26:B:1048:BCR:H351	2.01	0.41
3:C:251:HIS:CE1	23:C:1030:CLA:NA	2.88	0.41
3:C:293:ASN:ND2	3:C:296:VAL:HG22	2.36	0.41
3:C:305:THR:HG23	3:C:305:THR:O	2.20	0.41
3:C:355:THR:HG22	3:C:355:THR:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:394:GLU:HB2	16:V:127:PHE:HZ	1.86	0.41
3:C:439:VAL:HG22	23:C:1032:CLA:CBC	2.50	0.41
23:C:1025:CLA:H142	23:C:1025:CLA:H111	1.90	0.41
23:C:1026:CLA:HBA2	23:C:1026:CLA:H3A	1.60	0.41
4:D:43:LEU:O	4:D:47:GLY:N	2.50	0.41
4:D:46:GLY:O	4:D:47:GLY:C	2.63	0.41
4:D:148:ALA:HB2	4:D:276:VAL:CA	2.50	0.41
4:D:293:LEU:O	4:D:293:LEU:CD1	2.69	0.41
25:D:1042:PQ9:H152	25:D:1042:PQ9:H111	1.80	0.41
5:E:68:ASP:CB	5:E:69:ARG:HH21	2.30	0.41
5:E:69:ARG:NE	5:E:69:ARG:H	2.19	0.41
7:H:7:LEU:HA	7:H:10:ILE:HD12	2.02	0.41
10:K:19:ASP:HA	10:K:22:VAL:CG1	2.48	0.41
11:L:17:LEU:C	11:L:19:LEU:N	2.78	0.41
12:M:17:VAL:HB	12:M:18:PRO:HD3	2.02	0.41
13:O:121:PHE:CB	13:O:153:ALA:HB3	2.44	0.41
13:O:213:VAL:O	13:O:213:VAL:HG22	2.21	0.41
13:O:216:PHE:HD1	13:O:216:PHE:O	2.04	0.41
14:T:18:PHE:O	14:T:22:PHE:CD2	2.68	0.41
15:U:124:GLY:O	15:U:125:GLY:C	2.62	0.41
17:X:23:LEU:HD12	17:X:23:LEU:HA	1.78	0.41
17:X:30:LEU:HD22	17:X:30:LEU:HA	1.88	0.41
18:Y:39:LEU:HD21	20:Z:25:VAL:CG1	2.49	0.41
1:a:5017:PHE:C	1:a:5017:PHE:CD2	2.98	0.41
1:a:5058:VAL:HG12	1:a:5059:ASP:N	2.36	0.41
1:a:5063:ILE:O	1:a:5065:GLU:N	2.54	0.41
1:a:5172:MET:HA	1:a:5182:PHE:CG	2.56	0.41
1:a:5206:PHE:CG	24:a:6039:PHO:HBB2	2.55	0.41
1:a:5213:ALA:O	1:a:5217:SER:HB2	2.20	0.41
1:a:5221:SER:HB2	4:d:5141:TYR:HB2	2.03	0.41
1:a:5223:LEU:HD13	1:a:5223:LEU:C	2.46	0.41
1:a:5255:PHE:HB3	1:a:5264:SER:OG	2.21	0.41
1:a:5274:PHE:O	1:a:5276:ALA:C	2.63	0.41
1:a:5275:LEU:O	4:d:5211:CYS:O	2.39	0.41
1:a:5306:VAL:HG23	1:a:5316:THR:HG23	2.03	0.41
1:a:5332:HIS:HD2	1:a:5333:GLU:OE2	2.04	0.41
23:a:6003:CLA:H161	24:d:6038:PHO:H92	1.85	0.41
2:b:5271:GLN:HG2	2:b:5277:PHE:CZ	2.56	0.41
2:b:5277:PHE:CE2	2:b:5309:TYR:HD1	2.38	0.41
2:b:5283:ARG:HD2	2:b:5283:ARG:C	2.45	0.41
2:b:5308:PHE:CA	2:b:5427:PHE:CZ	3.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5311:TYR:OH	13:o:5202:GLN:HG3	2.21	0.41
2:b:5321:LEU:O	2:b:5321:LEU:HG	2.20	0.41
2:b:5457:LEU:CD2	4:d:5280:TRP:CZ3	3.04	0.41
23:b:6022:CLA:CGA	23:b:6022:CLA:C1A	2.98	0.41
3:c:5035:TRP:C	3:c:5035:TRP:CD1	2.97	0.41
3:c:5082:TYR:C	3:c:5082:TYR:CD1	2.99	0.41
3:c:5140:LEU:O	3:c:5148:GLY:HA3	2.20	0.41
3:c:5214:LEU:HD23	3:c:5214:LEU:C	2.46	0.41
3:c:5217:PRO:CG	3:c:5218:PHE:H	2.33	0.41
3:c:5240:ILE:HD13	26:c:6054:BCR:H372	2.02	0.41
3:c:5255:THR:O	3:c:5256:PRO:C	2.63	0.41
3:c:5260:ALA:O	3:c:5261:ARG:C	2.63	0.41
3:c:5266:TRP:HA	3:c:5271:TYR:CE1	2.55	0.41
3:c:5276:LEU:C	3:c:5276:LEU:CD2	2.92	0.41
3:c:5303:GLY:H	3:c:5423:ARG:HG3	1.86	0.41
3:c:5315:MET:HG2	3:c:5392:ALA:CB	2.50	0.41
3:c:5403:SER:HB2	3:c:5405:ASN:O	2.21	0.41
3:c:5429:SER:CA	30:c:6056:DGD:HA91	2.51	0.41
3:c:5451:ALA:C	3:c:5453:ALA:N	2.78	0.41
23:c:6034:CLA:HBA1	23:c:6034:CLA:H3A	1.18	0.41
4:d:5029:PHE:CD1	4:d:5029:PHE:C	2.98	0.41
4:d:5045:LEU:O	4:d:5049:LEU:HD12	2.20	0.41
4:d:5133:ALA:HA	4:d:5138:VAL:HG23	2.01	0.41
4:d:5299:ILE:O	4:d:5301:GLN:N	2.54	0.41
23:d:6008:CLA:H51	17:x:5023:LEU:HA	2.03	0.41
26:d:6050:BCR:H281	29:d:6059:MGE:C9B	2.33	0.41
5:e:5038:VAL:HB	6:f:5039:ALA:HB3	2.03	0.41
5:e:5038:VAL:CB	6:f:5039:ALA:HB3	2.51	0.41
7:h:5041:PHE:O	7:h:5044:ILE:N	2.51	0.41
10:k:5015:TYR:O	10:k:5018:PHE:N	2.42	0.41
11:l:5026:VAL:CG1	11:l:5027:LEU:N	2.82	0.41
12:m:5021:PHE:CD2	12:m:5022:LEU:HD23	2.56	0.41
13:o:5091:PHE:CE1	13:o:5260:LYS:HE3	2.56	0.41
13:o:5097:VAL:HG12	13:o:5133:THR:O	2.21	0.41
13:o:5099:ARG:O	13:o:5101:THR:HG23	2.21	0.41
13:o:5166:THR:CG2	13:o:5167:ASP:N	2.84	0.41
14:t:5024:ARG:O	14:t:5024:ARG:HG3	2.21	0.41
1:A:31:GLY:O	1:A:32:TRP:C	2.64	0.41
1:A:32:TRP:HE3	1:A:35:VAL:HG21	1.86	0.41
1:A:332:HIS:O	1:A:333:GLU:C	2.63	0.41
2:B:54:PRO:O	2:B:55:MET:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:342:GLY:HA3	2:B:403:GLY:O	2.21	0.41
2:B:349:LYS:O	2:B:350:GLU:C	2.64	0.41
2:B:389:LYS:C	2:B:394:GLN:NE2	2.79	0.41
2:B:466:HIS:NE2	23:B:1016:CLA:ND	2.69	0.41
23:B:1019:CLA:H143	23:B:1019:CLA:H112	1.54	0.41
3:C:75:PHE:HB2	3:C:86:LEU:HD21	2.02	0.41
3:C:265:ILE:O	3:C:274:TYR:OH	2.33	0.41
3:C:304:PRO:O	3:C:305:THR:C	2.63	0.41
3:C:414:ILE:CG1	3:C:415:ASN:N	2.84	0.41
23:C:1027:CLA:CBA	23:C:1027:CLA:HBD	2.51	0.41
23:C:1032:CLA:C17	23:C:1034:CLA:H192	2.51	0.41
4:D:154:VAL:HG21	30:H:1058:DGD:HAF1	2.01	0.41
26:D:1050:BCR:C37	29:J:1059:MGE:H3A1	2.51	0.41
5:E:48:GLY:O	5:E:49:THR:C	2.64	0.41
7:H:38:PHE:HD1	26:H:1049:BCR:C10	2.32	0.41
13:O:65:ARG:HD2	13:O:110:GLU:HA	2.02	0.41
13:O:196:SER:OG	13:O:212:ASN:CG	2.64	0.41
15:U:124:GLY:C	15:U:126:ASP:N	2.76	0.41
16:V:125:ASP:HB3	16:V:131:ARG:NE	2.36	0.41
16:V:160:LYS:CB	16:V:160:LYS:HZ3	2.11	0.41
18:Y:35:ILE:HG13	18:Y:36:ILE:N	2.36	0.41
1:a:5279:ARG:O	1:a:5281:VAL:N	2.54	0.41
2:b:5232:GLU:CD	2:b:5469:ARG:HH12	2.27	0.41
2:b:5434:LEU:O	2:b:5435:ASN:C	2.64	0.41
2:b:5453:ALA:O	2:b:5456:ALA:N	2.49	0.41
23:b:6023:CLA:H142	23:b:6023:CLA:H112	1.59	0.41
3:c:5046:SER:CB	3:c:5049:LEU:HD23	2.51	0.41
3:c:5086:LEU:N	3:c:5086:LEU:CD1	2.83	0.41
3:c:5282:MET:O	3:c:5286:ALA:CB	2.68	0.41
3:c:5283:GLY:HA3	3:c:5434:ALA:HB2	2.02	0.41
3:c:5317:PHE:HD1	3:c:5320:ARG:HD3	1.86	0.41
3:c:5418:ASN:ND2	3:c:5418:ASN:C	2.79	0.41
30:c:6056:DGD:HBT1	30:c:6056:DGD:HB72	1.96	0.41
30:c:6057:DGD:O2D	9:j:5032:ALA:HB1	2.21	0.41
4:d:5083:ASN:HA	4:d:5168:PHE:HB2	2.03	0.41
4:d:5087:HIS:C	7:h:5050:ASN:HD21	2.29	0.41
4:d:5089:LEU:CD2	4:d:5089:LEU:N	2.83	0.41
4:d:5097:ALA:C	4:d:5099:GLY:H	2.28	0.41
4:d:5163:GLY:O	4:d:5290:ALA:O	2.39	0.41
4:d:5237:PRO:O	4:d:5238:THR:CB	2.69	0.41
26:d:6050:BCR:H373	29:d:6059:MGE:H3A1	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:j:5017:ALA:C	9:j:5019:MET:H	2.29	0.41
11:l:5024:ILE:HG23	11:l:5025:LEU:N	2.36	0.41
12:m:5015:VAL:O	12:m:5015:VAL:CG1	2.68	0.41
13:o:5065:ARG:NE	13:o:5110:GLU:CA	2.83	0.41
14:t:5013:ILE:HG22	14:t:5017:PHE:CE1	2.56	0.41
15:u:5057:LEU:CD2	15:u:5079:ILE:CG2	2.98	0.41
15:u:5068:TYR:CE2	15:u:5111:HIS:CD2	3.09	0.41
15:u:5093:ASN:O	15:u:5094:ILE:C	2.64	0.41
16:v:5048:THR:HG22	16:v:5049:GLU:N	2.36	0.41
20:z:5003:ILE:HD12	20:z:5003:ILE:N	2.35	0.41
1:A:97:TRP:CZ3	8:I:8:VAL:HG11	2.55	0.40
1:A:197:PHE:O	1:A:198:HIS:C	2.64	0.40
1:A:199:GLN:HG3	1:A:200:LEU:N	2.35	0.40
1:A:231:GLU:CG	1:A:235:TYR:HE1	2.33	0.40
1:A:261:GLN:O	1:A:262:TYR:HB2	2.20	0.40
1:A:288:LEU:HD21	3:C:432:VAL:HG13	2.02	0.40
1:A:293:MET:HG2	1:A:298:ASN:HA	2.02	0.40
27:A:1063:LHG:H242	23:C:1032:CLA:HMD2	2.01	0.40
2:B:68:ARG:HH22	2:B:262:THR:HB	1.85	0.40
2:B:75:TRP:NE1	2:B:92:SER:OG	2.54	0.40
2:B:155:ALA:HB3	2:B:156:PHE:CD2	2.55	0.40
2:B:257:TRP:CH2	4:D:291:LEU:HG	2.25	0.40
2:B:441:GLY:C	2:B:442:ILE:HG12	2.45	0.40
23:B:1009:CLA:CMC	23:B:1009:CLA:HBC2	2.51	0.40
23:B:1012:CLA:H112	23:B:1023:CLA:O2A	2.13	0.40
3:C:294:ASN:HB2	30:C:1055:DGD:HO3E	1.76	0.40
3:C:356:MET:HG2	3:C:357:ARG:N	2.37	0.40
3:C:425:TRP:CZ2	23:C:1028:CLA:O1A	2.73	0.40
23:C:1025:CLA:HBA2	23:C:1026:CLA:H93	2.03	0.40
23:C:1026:CLA:H92	23:C:1026:CLA:H61	1.57	0.40
23:C:1029:CLA:C4	23:C:1029:CLA:H71	2.51	0.40
4:D:292:ASN:O	4:D:294:ARG:N	2.54	0.40
5:E:19:TYR:CE1	5:E:20:TRP:CD1	3.07	0.40
5:E:60:GLN:HG2	5:E:62:SER:H	1.86	0.40
10:K:16:ALA:C	10:K:18:PHE:N	2.76	0.40
10:K:39:VAL:CA	18:Y:36:ILE:CD1	2.97	0.40
11:L:15:THR:CA	11:L:18:TYR:HB2	2.50	0.40
11:L:18:TYR:CD2	14:T:20:ALA:HB2	2.56	0.40
13:O:64:TYR:N	13:O:64:TYR:CD1	2.89	0.40
13:O:175:PRO:HB3	15:U:123:GLU:HG2	2.02	0.40
14:T:1:MET:HA	14:T:4:ILE:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:V:48:THR:C	16:V:50:LYS:H	2.27	0.40
20:Z:61:VAL:CG2	20:Z:62:VAL:N	2.81	0.40
1:a:5046:ILE:HG13	1:a:5047:CYS:N	2.31	0.40
1:a:5060:ILE:H	1:a:5060:ILE:HD12	1.82	0.40
1:a:5181:ASN:CB	4:d:5318:ASN:OD1	2.69	0.40
1:a:5295:PHE:CD2	3:c:5427:ALA:HB1	2.56	0.40
1:a:5320:ILE:CG2	4:d:5333:ASP:OD2	2.68	0.40
2:b:5036:LEU:O	2:b:5037:TYR:C	2.64	0.40
2:b:5214:ILE:HD12	2:b:5214:ILE:HA	1.85	0.40
2:b:5239:ILE:HG21	2:b:5463:HIS:HB2	2.03	0.40
2:b:5323:ARG:HB3	2:b:5441:ARG:HG3	1.99	0.40
2:b:5386:LYS:HD2	2:b:5387:TYR:CE1	2.56	0.40
23:c:6027:CLA:H152	26:z:6053:BCR:H332	2.00	0.40
23:c:6037:CLA:O1A	23:c:6037:CLA:H3A	2.19	0.40
4:d:5036:LEU:O	4:d:5039:PRO:HD2	2.21	0.40
4:d:5063:LEU:HD23	4:d:5064:ALA:N	2.36	0.40
4:d:5164:GLN:HE22	4:d:5292:ASN:CG	2.29	0.40
26:d:6050:BCR:C37	29:d:6059:MGE:H3A1	2.51	0.40
29:d:6059:MGE:O5D	6:f:5040:MET:CB	2.69	0.40
7:h:5037:LEU:HD12	7:h:5037:LEU:H	1.85	0.40
10:k:5017:ILE:N	10:k:5017:ILE:CD1	2.84	0.40
11:l:5029:LEU:HD12	11:l:5029:LEU:HA	1.89	0.40
13:o:5174:VAL:O	13:o:5175:PRO:O	2.40	0.40
31:v:6041:HEM:HBA2	31:v:6041:HEM:CMA	2.50	0.40
1:A:27:ARG:HD2	14:T:24:ARG:NH2	2.37	0.40
1:A:127:MET:HG3	23:C:1029:CLA:CMB	2.52	0.40
1:A:140:ARG:HH21	27:A:1063:LHG:C1	2.34	0.40
1:A:173:PRO:HG2	1:A:178:GLY:C	2.46	0.40
2:B:248:ALA:O	2:B:249:ALA:C	2.64	0.40
2:B:330:MET:HG2	2:B:444:ARG:O	2.21	0.40
23:B:1022:CLA:C9	23:B:1022:CLA:C3	2.96	0.40
3:C:53:HIS:HB2	23:C:1036:CLA:HMD3	2.01	0.40
3:C:59:LEU:HB3	23:C:1034:CLA:O1D	2.20	0.40
3:C:84:GLN:O	3:C:86:LEU:N	2.52	0.40
3:C:88:LEU:CG	23:C:1027:CLA:HBC3	2.50	0.40
3:C:89:ILE:O	3:C:92:ILE:HG13	2.21	0.40
3:C:270:ALA:O	3:C:273:SER:N	2.54	0.40
4:D:148:ALA:CB	4:D:149:PRO:CD	2.94	0.40
4:D:291:LEU:CD1	4:D:291:LEU:N	2.84	0.40
23:D:1005:CLA:C7	29:D:1062:MGE:H202	2.47	0.40
26:D:1050:BCR:H382	26:D:1050:BCR:H24C	1.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:D:1062:MGE:H222	29:L:1061:MGE:CGB	2.51	0.40
29:D:1062:MGE:H4A2	14:T:17:PHE:CD2	2.57	0.40
7:H:10:ILE:H	7:H:10:ILE:HG13	1.55	0.40
12:M:14:PHE:O	12:M:14:PHE:CG	2.73	0.40
15:U:72:TYR:HD2	15:U:73:PRO:CD	2.34	0.40
2:b:5069:THR:HB	2:b:5077:ILE:HG22	2.03	0.40
2:b:5150:PHE:CA	23:b:6014:CLA:HMC3	2.50	0.40
2:b:5159:PHE:O	23:b:6014:CLA:HMD3	2.21	0.40
3:c:5080:PRO:HB2	3:c:5083:GLU:HB2	2.03	0.40
3:c:5111:PHE:H	3:c:5111:PHE:HD1	1.65	0.40
3:c:5261:ARG:NH1	3:c:5261:ARG:N	2.69	0.40
3:c:5461:ARG:NH2	4:d:5223:PHE:HD2	2.19	0.40
30:c:6055:DGD:HBG2	30:c:6055:DGD:HBN1	1.71	0.40
4:d:5209:LEU:HA	24:d:6038:PHO:CAC	2.42	0.40
4:d:5210:LEU:CD1	4:d:5274:VAL:HG21	2.51	0.40
5:e:5069:ARG:NE	5:e:5069:ARG:H	2.18	0.40
6:f:5044:GLN:O	6:f:5045:ARG:CB	2.69	0.40
12:m:5004:ASN:C	12:m:5006:LEU:N	2.79	0.40
13:o:5123:GLU:OE1	13:o:5150:ASN:N	2.54	0.40
13:o:5209:ALA:O	13:o:5211:ALA:N	2.54	0.40
1:A:87:ASN:ND2	3:C:357:ARG:CG	2.84	0.40
1:A:135:TYR:O	1:A:137:LEU:N	2.54	0.40
1:A:202:VAL:HG11	23:A:1006:CLA:C3D	2.52	0.40
1:A:244:GLU:O	1:A:246:TYR:N	2.55	0.40
1:A:247:ASN:ND2	1:A:250:ALA:CB	2.85	0.40
2:B:123:PHE:HD1	2:B:123:PHE:HA	1.76	0.40
2:B:223:GLN:HG2	7:H:24:GLY:N	2.36	0.40
2:B:318:ASN:HD21	2:B:320:ALA:CB	2.33	0.40
2:B:329:PRO:O	2:B:331:ASN:N	2.55	0.40
2:B:457:VAL:H	2:B:457:VAL:HG23	1.55	0.40
2:B:463:PHE:CE1	23:B:1016:CLA:CBB	2.93	0.40
3:C:223:TRP:HB3	3:C:224:ILE:H	1.75	0.40
3:C:231:GLU:C	3:C:233:VAL:N	2.76	0.40
23:C:1029:CLA:HMD2	26:C:1054:BCR:HC7	2.03	0.40
4:D:36:LEU:O	4:D:37:LEU:C	2.64	0.40
7:H:14:LEU:HD12	7:H:14:LEU:N	2.34	0.40
13:O:104:LEU:HD22	13:O:128:ASP:HA	2.03	0.40
13:O:167:ASP:O	13:O:168:PHE:CG	2.74	0.40
13:O:208:LEU:H	13:O:208:LEU:CD1	2.35	0.40
13:O:250:ASP:OD1	13:O:253:ALA:HB2	2.21	0.40
15:U:112:PHE:N	15:U:112:PHE:HD2	2.18	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:U:115:THR:O	15:U:116:GLU:C	2.63	0.40
16:V:102:MET:HE1	16:V:141:ILE:CB	2.47	0.40
16:V:128:PRO:HB3	16:V:131:ARG:NE	2.36	0.40
18:Y:39:LEU:CD1	20:Z:28:ALA:HB3	2.50	0.40
1:a:5131:TRP:CE3	1:a:5132:GLU:N	2.90	0.40
1:a:5180:PHE:CD1	1:a:5180:PHE:N	2.89	0.40
1:a:5193:LEU:HD12	4:d:5183:LEU:HD21	2.04	0.40
1:a:5256:GLY:HA2	1:a:5264:SER:HB2	2.03	0.40
2:b:5065:ARG:NH2	2:b:5259:THR:HB	2.36	0.40
2:b:5148:PHE:O	2:b:5152:ALA:HB2	2.21	0.40
2:b:5260:THR:O	2:b:5261:PRO:O	2.38	0.40
2:b:5262:ILE:H	2:b:5262:ILE:HG13	1.58	0.40
2:b:5367:LEU:HB2	2:b:5376:ALA:O	2.21	0.40
2:b:5398:PHE:HZ	2:b:5417:TYR:CD1	2.39	0.40
2:b:5463:HIS:HD2	2:b:5464:ILE:HD12	1.86	0.40
23:b:6011:CLA:CHA	23:b:6013:CLA:H41	2.51	0.40
23:b:6019:CLA:H122	23:b:6021:CLA:H102	2.03	0.40
3:c:5060:ILE:HG12	23:c:6027:CLA:HMD2	2.00	0.40
3:c:5286:ALA:C	3:c:5288:CYS:N	2.78	0.40
23:c:6033:CLA:H62	23:c:6033:CLA:H41	1.56	0.40
4:d:5085:MET:CE	5:e:5069:ARG:HA	2.49	0.40
4:d:5191:TRP:CE2	4:d:5197:HIS:HB2	2.56	0.40
4:d:5221:THR:CG2	4:d:5244:TYR:CB	3.00	0.40
5:e:5063:ILE:O	5:e:5065:LEU:N	2.51	0.40
6:f:5037:ILE:HG22	6:f:5038:ALA:N	2.36	0.40
12:m:5008:PHE:CD1	12:m:5009:ILE:N	2.87	0.40
13:o:5081:GLU:OE2	13:o:5257:HIS:CD2	2.74	0.40
13:o:5183:LEU:HD12	13:o:5183:LEU:N	2.35	0.40
14:t:5013:ILE:O	14:t:5017:PHE:CG	2.73	0.40
17:x:5030:LEU:O	17:x:5033:THR:HG22	2.21	0.40
20:z:5033:TRP:O	20:z:5037:LYS:HB2	2.21	0.40
1:A:202:VAL:HG12	1:A:206:PHE:CD1	2.57	0.40
2:B:110:ALA:O	2:B:111:ALA:C	2.64	0.40
2:B:243:ALA:HB2	2:B:466:HIS:CE1	2.56	0.40
2:B:321:LYS:HB3	2:B:321:LYS:HZ2	1.86	0.40
23:B:1018:CLA:C2B	23:H:1017:CLA:HMB2	2.51	0.40
26:B:1047:BCR:H371	26:B:1047:BCR:H24C	1.63	0.40
3:C:45:LEU:H	3:C:45:LEU:HD12	1.86	0.40
3:C:293:ASN:OD1	3:C:295:THR:N	2.54	0.40
3:C:418:ASN:HD22	3:C:419:PHE:N	2.20	0.40
23:C:1035:CLA:HAA1	23:C:1035:CLA:CBD	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:46:GLY:O	4:D:49:LEU:N	2.55	0.40
4:D:83:ASN:CB	4:D:336:HIS:CE1	3.04	0.40
4:D:155:SER:HA	4:D:159:ILE:CG1	2.51	0.40
4:D:237:PRO:O	4:D:238:THR:CB	2.70	0.40
4:D:280:TRP:O	4:D:283:ALA:HB3	2.20	0.40
29:D:1062:MGE:H1D	29:D:1062:MGE:H2G	1.29	0.40
5:E:30:LEU:HD22	5:E:30:LEU:HA	1.65	0.40
23:H:1017:CLA:HAA1	23:H:1017:CLA:CBD	2.52	0.40
10:K:37:PHE:O	10:K:38:VAL:C	2.63	0.40
11:L:28:ALA:HB2	12:M:15:VAL:HG22	2.04	0.40
12:M:7:GLY:O	12:M:8:PHE:C	2.64	0.40
12:M:8:PHE:C	12:M:10:ALA:N	2.79	0.40
12:M:17:VAL:HB	12:M:18:PRO:CD	2.51	0.40
15:U:58:ASN:OD1	15:U:85:TYR:N	2.54	0.40
15:U:130:ASN:O	15:U:131:GLY:O	2.38	0.40
18:Y:44:GLY:CA	20:Z:30:PRO:HD3	2.50	0.40
20:Z:2:THR:O	20:Z:5:PHE:HB3	2.21	0.40
20:Z:3:ILE:C	20:Z:5:PHE:H	2.30	0.40
20:Z:7:LEU:HA	20:Z:10:ALA:HB3	2.04	0.40
1:a:5093:PHE:HE1	30:c:6055:DGD:CIA	2.27	0.40
1:a:5104:GLU:C	1:a:5106:LEU:N	2.77	0.40
23:a:6007:CLA:C4A	23:a:6007:CLA:CBA	2.98	0.40
2:b:5049:LEU:HD23	2:b:5308:PHE:CG	2.56	0.40
2:b:5077:ILE:O	2:b:5077:ILE:CG1	2.68	0.40
2:b:5089:SER:O	2:b:5091:GLU:N	2.55	0.40
2:b:5253:MET:HE3	2:b:5448:PHE:CB	2.51	0.40
2:b:5335:GLN:N	2:b:5428:GLU:O	2.47	0.40
23:b:6009:CLA:H161	23:b:6009:CLA:H121	1.91	0.40
23:b:6017:CLA:HMB2	23:b:6018:CLA:C2B	2.51	0.40
3:c:5105:VAL:O	3:c:5105:VAL:CG1	2.69	0.40
3:c:5150:ASP:O	3:c:5153:ASP:HB2	2.21	0.40
3:c:5250:TRP:HE1	23:c:6030:CLA:CED	2.34	0.40
3:c:5283:GLY:CA	23:c:6026:CLA:HBC3	2.52	0.40
23:c:6025:CLA:HBA2	23:c:6026:CLA:H93	2.03	0.40
23:c:6025:CLA:C1B	23:c:6025:CLA:H42	2.46	0.40
4:d:5325:ILE:HG22	4:d:5325:ILE:O	2.21	0.40
26:k:6051:BCR:H313	26:k:6052:BCR:H10C	2.03	0.40
13:o:5080:GLU:O	13:o:5082:PRO:CD	2.70	0.40
13:o:5120:THR:O	13:o:5120:THR:CG2	2.58	0.40
13:o:5178:ARG:CZ	13:o:5182:PHE:CE2	3.05	0.40
15:u:5081:LYS:O	15:u:5081:LYS:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:u:5127:ARG:NH1	15:u:5127:ARG:CG	2.74	0.40
16:v:5092:ARG:NH1	16:v:5101:TYR:CD1	2.89	0.40
17:x:5043:ILE:O	17:x:5044:ASP:HB3	2.22	0.40
1:A:134:SER:CB	1:A:141:PRO:HA	2.44	0.40
1:A:252:HIS:C	1:A:254:TYR:N	2.78	0.40
1:A:310:LYS:HA	16:V:29:LEU:CB	2.35	0.40
2:B:6:TYR:CZ	11:L:11:GLU:HG3	2.56	0.40
2:B:40:TYR:CE2	23:B:1015:CLA:HMD1	2.57	0.40
2:B:149:LEU:CB	23:B:1011:CLA:HBC1	2.51	0.40
2:B:211:ILE:O	2:B:212:ALA:C	2.65	0.40
2:B:392:PHE:O	2:B:393:GLU:CB	2.69	0.40
23:B:1012:CLA:CED	23:B:1013:CLA:H11	2.49	0.40
23:B:1019:CLA:H122	23:B:1021:CLA:H102	2.04	0.40
23:B:1023:CLA:CHA	23:B:1024:CLA:HMC2	2.51	0.40
3:C:48:LYS:NZ	3:C:138:GLU:OE1	2.53	0.40
3:C:127:PHE:C	3:C:129:GLY:N	2.78	0.40
3:C:186:TYR:OH	3:C:194:GLY:HA3	2.22	0.40
3:C:397:THR:OG1	3:C:398:HIS:N	2.55	0.40
23:C:1036:CLA:H151	26:Z:1053:BCR:H362	2.03	0.40
30:C:1055:DGD:HBN1	30:C:1055:DGD:HBG2	1.71	0.40
4:D:45:LEU:C	4:D:45:LEU:HD22	2.46	0.40
4:D:58:TRP:CZ2	5:E:55:TYR:HB3	2.56	0.40
4:D:198:MET:HE3	4:D:198:MET:HB2	1.82	0.40
4:D:210:LEU:O	4:D:211:CYS:C	2.64	0.40
4:D:218:VAL:CA	4:D:221:THR:HG22	2.52	0.40
4:D:233:ARG:O	4:D:234:ALA:C	2.64	0.40
5:E:44:TYR:C	5:E:46:VAL:H	2.30	0.40
6:F:44:GLN:O	6:F:45:ARG:CB	2.69	0.40
11:L:21:LEU:CD2	12:M:22:LEU:HD12	2.50	0.40
12:M:32:GLN:NE2	12:m:5034:LYS:HD2	2.37	0.40
13:O:162:ILE:O	13:O:162:ILE:HG22	2.22	0.40
13:O:190:LEU:HD11	15:U:42:VAL:HG22	2.03	0.40
14:T:8:PHE:C	14:T:10:PHE:H	2.28	0.40
15:U:90:ASP:O	15:U:93:ASN:HB2	2.21	0.40
20:Z:38:GLN:C	20:Z:40:ILE:H	2.28	0.40
1:a:5117:PHE:CD2	1:a:5117:PHE:N	2.89	0.40
1:a:5119:PHE:HZ	23:a:6003:CLA:H91	1.87	0.40
1:a:5288:LEU:HD23	3:c:5432:VAL:HG13	2.04	0.40
23:a:6007:CLA:O2A	23:a:6007:CLA:H43	2.21	0.40
2:b:5219:PRO:HA	7:h:5022:ALA:HB3	2.04	0.40
2:b:5269:ARG:CD	2:b:5270:TYR:CD1	3.05	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5281:ILE:HG13	2:b:5282:ASN:N	2.37	0.40
2:b:5295:LEU:HG	2:b:5399:TYR:CD1	2.56	0.40
23:b:6024:CLA:O1D	7:h:5007:LEU:HD12	2.22	0.40
26:b:6048:BCR:H24C	26:b:6048:BCR:H371	1.59	0.40
3:c:5311:GLN:HE22	3:c:5351:PHE:HD2	1.68	0.40
3:c:5401:LEU:HD12	3:c:5401:LEU:N	2.35	0.40
23:c:6030:CLA:H43	26:c:6054:BCR:H321	2.01	0.40
4:d:5139:ARG:HG3	4:d:5139:ARG:NH1	2.36	0.40
25:d:6042:PQ9:H142	29:d:6062:MGE:C3B	2.51	0.40
5:e:5008:ARG:HA	5:e:5008:ARG:HE	1.86	0.40
10:k:5025:LEU:HB3	10:k:5026:PRO:HD3	2.03	0.40
10:k:5026:PRO:O	10:k:5029:PRO:CD	2.57	0.40
13:o:5036:ILE:HA	13:o:5039:THR:CG2	2.51	0.40
16:v:5064:ALA:O	16:v:5066:CYS:N	2.54	0.40
16:v:5097:GLY:C	16:v:5099:VAL:N	2.79	0.40
16:v:5140:ALA:O	16:v:5141:ILE:C	2.62	0.40
16:v:5158:GLY:HA3	16:v:5162:TYR:CD2	2.56	0.40
17:x:5037:LEU:HD13	17:x:5037:LEU:HA	1.92	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	333/344 (97%)	210 (63%)	84 (25%)	39 (12%)	0	4
1	a	333/344 (97%)	214 (64%)	75 (22%)	44 (13%)	0	3
2	B	483/488 (99%)	314 (65%)	109 (23%)	60 (12%)	0	4
2	b	483/488 (99%)	314 (65%)	109 (23%)	60 (12%)	0	4
3	C	445/447 (100%)	306 (69%)	89 (20%)	50 (11%)	0	4
3	c	445/447 (100%)	316 (71%)	82 (18%)	47 (11%)	0	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
4	D	338/340 (99%)	199 (59%)	87 (26%)	52 (15%)	0 2
4	d	338/340 (99%)	214 (63%)	79 (23%)	45 (13%)	0 3
5	E	80/83 (96%)	44 (55%)	22 (28%)	14 (18%)	0 1
5	e	80/83 (96%)	51 (64%)	18 (22%)	11 (14%)	0 3
6	F	33/44 (75%)	26 (79%)	6 (18%)	1 (3%)	3 26
6	f	33/44 (75%)	26 (79%)	5 (15%)	2 (6%)	1 14
7	H	62/64 (97%)	39 (63%)	15 (24%)	8 (13%)	0 3
7	h	62/64 (97%)	38 (61%)	19 (31%)	5 (8%)	1 9
8	I	33/35 (94%)	19 (58%)	8 (24%)	6 (18%)	0 1
8	i	33/35 (94%)	24 (73%)	6 (18%)	3 (9%)	0 8
9	J	32/40 (80%)	26 (81%)	2 (6%)	4 (12%)	0 4
9	j	32/40 (80%)	26 (81%)	3 (9%)	3 (9%)	0 7
10	K	34/36 (94%)	22 (65%)	8 (24%)	4 (12%)	0 4
10	k	34/36 (94%)	23 (68%)	7 (21%)	4 (12%)	0 4
11	L	35/37 (95%)	20 (57%)	12 (34%)	3 (9%)	0 8
11	l	35/37 (95%)	22 (63%)	9 (26%)	4 (11%)	0 4
12	M	34/36 (94%)	19 (56%)	8 (24%)	7 (21%)	0 1
12	m	34/36 (94%)	24 (71%)	7 (21%)	3 (9%)	0 8
13	O	240/242 (99%)	155 (65%)	47 (20%)	38 (16%)	0 2
13	o	240/242 (99%)	163 (68%)	45 (19%)	32 (13%)	0 3
14	T	28/30 (93%)	18 (64%)	5 (18%)	5 (18%)	0 1
14	t	28/30 (93%)	20 (71%)	7 (25%)	1 (4%)	2 23
15	U	96/98 (98%)	56 (58%)	24 (25%)	16 (17%)	0 2
15	u	96/98 (98%)	55 (57%)	26 (27%)	15 (16%)	0 2
16	V	135/137 (98%)	91 (67%)	25 (18%)	19 (14%)	0 3
16	v	135/137 (98%)	90 (67%)	28 (21%)	17 (13%)	0 4
17	X	32/34 (94%)	29 (91%)	2 (6%)	1 (3%)	3 26
17	x	32/34 (94%)	29 (91%)	2 (6%)	1 (3%)	3 26
18	Y	26/28 (93%)	19 (73%)	5 (19%)	2 (8%)	1 10
18	y	26/28 (93%)	19 (73%)	3 (12%)	4 (15%)	0 2
20	Z	60/62 (97%)	39 (65%)	10 (17%)	11 (18%)	0 1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
20	z	60/62 (97%)	46 (77%)	8 (13%)	6 (10%)	0 6
All	All	5118/5250 (98%)	3365 (66%)	1106 (22%)	647 (13%)	0 4

All (647) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	60	ILE
1	A	75	ASN
1	A	79	THR
1	A	80	GLY
1	A	84	PRO
1	A	91	LEU
1	A	96	ILE
1	A	113	GLN
1	A	129	ARG
1	A	151	LEU
1	A	169	SER
1	A	224	ILE
1	A	261	GLN
1	A	279	ARG
1	A	305	SER
1	A	335	ASN
2	B	34	ALA
2	B	48	SER
2	B	87	ASP
2	B	93	PHE
2	B	121	GLU
2	B	151	PHE
2	B	157	HIS
2	B	171	PRO
2	B	224	ARG
2	B	230	ARG
2	B	279	TYR
2	B	327	THR
2	B	361	ALA
2	B	407	ASN
2	B	443	PHE
2	B	478	VAL
2	B	479	PHE
2	B	487	SER
3	C	33	PHE
3	C	42	LEU

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Mol	Chain	Res	Type
3	C	99	VAL
3	C	127	PHE
3	C	138	GLU
3	C	411	ALA
3	C	457	LYS
3	C	461	ARG
4	D	22	LEU
4	D	25	ASP
4	D	113	PHE
4	D	222	LEU
4	D	233	ARG
4	D	236	ASN
4	D	239	GLN
4	D	262	SER
4	D	299	ILE
4	D	325	ILE
4	D	330	ALA
4	D	338	ASN
5	E	9	PRO
5	E	11	SER
5	E	13	ILE
5	E	20	TRP
5	E	60	GLN
5	E	82	GLN
5	E	83	LEU
7	H	17	GLU
7	H	18	TYR
7	H	26	GLY
10	K	13	GLU
10	K	27	VAL
12	M	8	PHE
12	M	11	THR
12	M	12	ALA
12	M	34	LYS
13	O	52	ALA
13	O	88	GLU
13	O	110	GLU
13	O	151	LEU
13	O	175	PRO
13	O	188	ARG
13	O	197	ALA
13	O	247	SER

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Mol	Chain	Res	Type
14	T	2	GLU
15	U	53	GLU
15	U	60	THR
15	U	72	TYR
15	U	73	PRO
15	U	132	LEU
16	V	109	ASP
16	V	111	GLU
16	V	124	ALA
16	V	133	LEU
17	X	43	ILE
20	Z	31	GLN
20	Z	32	ASP
1	a	5031	GLY
1	a	5060	ILE
1	a	5075	ASN
1	a	5080	GLY
1	a	5084	PRO
1	a	5129	ARG
1	a	5224	ILE
1	a	5229	GLU
1	a	5261	GLN
1	a	5277	ALA
1	a	5305	SER
2	b	5045	SER
2	b	5096	ALA
2	b	5118	GLU
2	b	5119	LEU
2	b	5154	HIS
2	b	5168	PRO
2	b	5221	ARG
2	b	5227	ARG
2	b	5276	TYR
2	b	5324	THR
2	b	5358	ALA
2	b	5359	PHE
2	b	5383	ALA
2	b	5388	SER
2	b	5440	PHE
2	b	5475	VAL
2	b	5476	PHE
2	b	5484	SER

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Mol	Chain	Res	Type
3	c	5099	VAL
3	c	5138	GLU
3	c	5264	PHE
3	c	5295	THR
3	c	5407	VAL
3	c	5411	ALA
3	c	5457	LYS
3	c	5461	ARG
4	d	5021	TRP
4	d	5022	LEU
4	d	5025	ASP
4	d	5026	ARG
4	d	5090	LEU
4	d	5169	PHE
4	d	5222	LEU
4	d	5233	ARG
4	d	5235	PHE
4	d	5236	ASN
4	d	5239	GLN
4	d	5242	GLU
4	d	5262	SER
4	d	5330	ALA
4	d	5338	ASN
5	e	5009	PRO
5	e	5011	SER
5	e	5060	GLN
7	h	5026	GLY
10	k	5013	GLU
12	m	5005	GLN
13	o	5088	GLU
13	o	5106	GLN
13	o	5110	GLU
13	o	5151	LEU
13	o	5175	PRO
13	o	5188	ARG
13	o	5247	SER
15	u	5053	GLU
15	u	5060	THR
15	u	5072	TYR
15	u	5073	PRO
15	u	5116	GLU
16	v	5088	ALA

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Mol	Chain	Res	Type
16	v	5109	ASP
16	v	5122	ARG
16	v	5124	ALA
16	v	5133	LEU
1	A	44	ALA
1	A	72	LEU
1	A	88	ALA
1	A	114	LEU
1	A	150	PRO
1	A	229	GLU
1	A	260	PHE
1	A	318	ALA
2	B	6	TYR
2	B	59	GLY
2	B	89	GLY
2	B	122	LEU
2	B	150	CYS
2	B	165	GLY
2	B	174	LEU
2	B	219	VAL
2	B	259	GLY
2	B	261	ALA
2	B	280	PHE
2	B	322	GLY
2	B	330	MET
2	B	386	ALA
2	B	391	SER
2	B	396	GLY
2	B	488	PRO
3	C	40	ALA
3	C	80	PRO
3	C	184	GLY
3	C	196	VAL
3	C	217	PRO
3	C	223	TRP
3	C	256	PRO
3	C	384	ILE
3	C	400	PRO
3	C	406	SER
3	C	472	LEU
4	D	23	LYS
4	D	26	ARG

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Mol	Chain	Res	Type
4	D	109	GLY
4	D	169	PHE
4	D	211	CYS
4	D	228	GLY
4	D	235	PHE
4	D	242	GLU
4	D	274	VAL
4	D	300	SER
4	D	345	VAL
4	D	349	GLY
5	E	44	TYR
5	E	45	ASP
7	H	6	TRP
9	J	31	GLY
9	J	35	GLY
12	M	3	VAL
12	M	5	GLN
13	O	60	SER
13	O	106	GLN
13	O	115	SER
13	O	162	ILE
13	O	169	LYS
13	O	185	PRO
13	O	201	PRO
13	O	206	GLU
13	O	224	SER
13	O	256	PRO
14	T	11	ALA
15	U	90	ASP
15	U	110	GLU
15	U	124	GLY
15	U	130	ASN
15	U	131	GLY
16	V	41	GLU
16	V	67	HIS
16	V	110	GLY
16	V	123	SER
16	V	153	GLY
18	Y	45	ASN
20	Z	6	GLN
20	Z	55	GLY
20	Z	61	VAL

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Mol	Chain	Res	Type
1	a	5061	ASP
1	a	5088	ALA
1	a	5096	ILE
1	a	5100	ALA
1	a	5150	PRO
1	a	5245	THR
1	a	5260	PHE
1	a	5275	LEU
1	a	5318	ALA
1	a	5335	ASN
2	b	5003	TYR
2	b	5008	VAL
2	b	5031	ALA
2	b	5040	ALA
2	b	5056	GLY
2	b	5148	PHE
2	b	5162	GLY
2	b	5183	GLY
2	b	5231	ILE
2	b	5237	SER
2	b	5247	PHE
2	b	5261	PRO
2	b	5277	PHE
2	b	5319	GLY
2	b	5393	GLY
3	c	5040	ALA
3	c	5085	GLY
3	c	5172	ALA
3	c	5184	GLY
3	c	5217	PRO
3	c	5257	PHE
3	c	5266	TRP
3	c	5277	GLY
3	c	5333	GLY
3	c	5355	THR
3	c	5383	ASP
3	c	5432	VAL
4	d	5100	ASP
4	d	5168	PHE
4	d	5228	GLY
4	d	5238	THR
4	d	5240	ALA

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Mol	Chain	Res	Type
4	d	5274	VAL
4	d	5325	ILE
4	d	5329	MET
4	d	5345	VAL
4	d	5349	GLY
5	e	5013	ILE
5	e	5020	TRP
5	e	5044	TYR
6	f	5041	GLN
6	f	5043	ILE
7	h	5006	TRP
7	h	5014	LEU
9	j	5031	GLY
9	j	5035	GLY
11	l	5006	ASN
11	l	5030	LEU
12	m	5014	PHE
12	m	5034	LYS
13	o	5049	ASP
13	o	5052	ALA
13	o	5169	LYS
13	o	5177	TYR
13	o	5179	THR
13	o	5185	PRO
13	o	5197	ALA
13	o	5209	ALA
15	u	5063	ALA
15	u	5090	ASP
15	u	5099	GLU
15	u	5132	LEU
16	v	5041	GLU
16	v	5064	ALA
16	v	5153	GLY
16	v	5154	ASP
17	x	5043	ILE
18	y	5025	ARG
20	z	5006	GLN
20	z	5050	LEU
1	A	45	THR
1	A	61	ASP
1	A	112	TYR
1	A	217	SER

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Mol	Chain	Res	Type
1	A	245	THR
1	A	274	PHE
1	A	321	ILE
2	B	28	ALA
2	B	80	ILE
2	B	161	LEU
2	B	204	ALA
2	B	223	GLN
2	B	266	GLU
2	B	307	GLU
2	B	372	ASP
3	C	29	GLU
3	C	46	SER
3	C	75	PHE
3	C	139	THR
3	C	161	LEU
3	C	172	ALA
3	C	228	ASN
3	C	277	GLY
3	C	287	THR
3	C	355	THR
3	C	429	SER
3	C	436	PHE
3	C	452	ALA
3	C	456	GLU
3	C	471	SER
4	D	21	TRP
4	D	58	TRP
4	D	66	SER
4	D	114	ILE
4	D	165	SER
4	D	168	PHE
4	D	173	PHE
4	D	219	GLU
4	D	238	THR
4	D	273	PHE
4	D	292	ASN
4	D	329	MET
5	E	31	PHE
6	F	19	ARG
7	H	19	GLY
8	I	24	LEU

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Mol	Chain	Res	Type
9	J	18	GLY
10	K	12	PRO
10	K	36	ALA
11	L	31	PHE
13	O	49	ASP
13	O	100	GLU
13	O	116	ASP
13	O	117	GLY
13	O	146	PHE
13	O	150	ASN
13	O	209	ALA
13	O	229	LYS
13	O	232	GLY
14	T	16	LEU
14	T	26	PRO
15	U	94	ILE
15	U	99	GLU
15	U	123	GLU
16	V	64	ALA
16	V	65	SER
16	V	81	ARG
16	V	112	GLN
16	V	154	ASP
18	Y	43	ARG
20	Z	4	LEU
1	a	5045	THR
1	a	5081	ALA
1	a	5091	LEU
1	a	5168	PHE
1	a	5217	SER
1	a	5279	ARG
1	a	5280	VAL
1	a	5321	ILE
1	a	5334	ARG
2	b	5171	LEU
2	b	5193	GLY
2	b	5220	GLN
2	b	5404	ASN
2	b	5433	THR
2	b	5485	PRO
3	c	5033	PHE
3	c	5042	LEU

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Mol	Chain	Res	Type
3	c	5287	THR
3	c	5316	THR
3	c	5400	PRO
3	c	5429	SER
4	d	5041	ALA
4	d	5062	GLY
4	d	5071	CYS
4	d	5095	PRO
4	d	5096	GLU
4	d	5192	THR
4	d	5292	ASN
4	d	5300	SER
5	e	5012	ASP
5	e	5045	ASP
5	e	5082	GLN
8	i	5024	LEU
8	i	5027	ASP
10	k	5012	PRO
11	l	5031	PHE
13	o	5086	ARG
13	o	5157	PRO
13	o	5229	LYS
14	t	5026	PRO
15	u	5130	ASN
16	v	5051	GLN
16	v	5065	SER
16	v	5112	GLN
16	v	5129	LYS
20	z	5032	ASP
20	z	5055	GLY
1	A	152	ALA
1	A	153	SER
2	B	11	VAL
2	B	43	ALA
2	B	249	ALA
2	B	250	PHE
2	B	392	PHE
2	B	414	PRO
3	C	57	ALA
3	C	101	PRO
3	C	212	TYR
3	C	298	PRO

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Mol	Chain	Res	Type
3	C	435	PHE
3	C	443	TRP
3	C	465	PRO
4	D	30	VAL
4	D	188	PHE
4	D	240	ALA
4	D	275	PRO
4	D	281	MET
4	D	344	GLU
4	D	348	ARG
5	E	10	PHE
7	H	14	LEU
8	I	27	ASP
9	J	34	ALA
11	L	3	PRO
11	L	30	LEU
12	M	9	ILE
13	O	96	LEU
13	O	138	GLY
13	O	157	PRO
13	O	179	THR
13	O	251	MET
14	T	9	ILE
15	U	92	LEU
16	V	69	GLY
20	Z	23	VAL
1	a	5142	TRP
1	a	5165	GLN
1	a	5236	GLY
2	b	5052	MET
2	b	5143	ALA
2	b	5155	LEU
3	c	5057	ALA
3	c	5075	PHE
3	c	5256	PRO
3	c	5260	ALA
3	c	5324	LEU
3	c	5384	ILE
4	d	5030	VAL
4	d	5101	PHE
4	d	5181	PHE
4	d	5273	PHE

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Mol	Chain	Res	Type
4	d	5275	PRO
4	d	5277	THR
7	h	5020	LYS
7	h	5063	LYS
8	i	5010	ILE
10	k	5027	VAL
11	l	5003	PRO
13	o	5096	LEU
13	o	5100	GLU
15	u	5092	LEU
16	v	5162	TYR
18	y	5012	ILE
1	A	63	ILE
1	A	179	THR
1	A	280	VAL
2	B	50	PRO
2	B	71	VAL
2	B	234	ILE
2	B	360	PRO
2	B	439	SER
2	B	484	PRO
3	C	257	PHE
3	C	296	VAL
3	C	333	GLY
4	D	111	TRP
5	E	43	ALA
8	I	2	GLU
8	I	5	LYS
13	O	122	VAL
16	V	83	GLU
16	V	121	LEU
16	V	162	TYR
20	Z	42	LEU
1	a	5070	SER
1	a	5072	LEU
1	a	5079	THR
1	a	5164	GLY
2	b	5084	ASP
2	b	5256	GLY
2	b	5257	SER
2	b	5270	TYR
2	b	5313	GLY

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Mol	Chain	Res	Type
2	b	5327	MET
2	b	5346	LYS
2	b	5371	ASN
2	b	5439	ILE
2	b	5481	PRO
3	c	5109	PHE
3	c	5132	HIS
3	c	5471	SER
4	d	5080	THR
4	d	5306	ALA
9	j	5034	ALA
13	o	5060	SER
13	o	5187	GLY
13	o	5224	SER
13	o	5228	ALA
13	o	5243	SER
15	u	5094	ILE
18	y	5027	ASN
20	z	5010	ALA
1	A	31	GLY
1	A	176	ILE
2	B	99	ALA
3	C	216	SER
4	D	37	LEU
7	H	58	VAL
8	I	30	ARG
13	O	41	LEU
13	O	269	ILE
15	U	104	ILE
16	V	128	PRO
20	Z	3	ILE
1	a	5172	MET
1	a	5185	VAL
1	a	5293	MET
1	a	5333	GLU
2	b	5192	PRO
2	b	5334	ALA
2	b	5411	PRO
2	b	5452	HIS
3	c	5046	SER
3	c	5077	PRO
4	d	5152	VAL

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Mol	Chain	Res	Type
5	e	5072	ALA
10	k	5022	VAL
13	o	5117	GLY
13	o	5143	PRO
13	o	5201	PRO
16	v	5110	GLY
3	C	85	GLY
4	D	47	GLY
4	D	187	GLY
13	O	109	GLY
15	U	43	VAL
20	Z	24	PRO
1	a	5138	GLY
2	b	5013	PRO
2	b	5123	PRO
2	b	5133	PRO
3	c	5216	SER
3	c	5414	ILE
3	c	5465	PRO
4	d	5299	ILE
5	e	5052	PRO
13	o	5122	VAL
13	o	5162	ILE
15	u	5122	VAL
18	y	5026	GLY
1	A	236	GLY
2	B	211	ILE
2	B	367	PRO
3	C	77	PRO
4	D	62	GLY
4	D	132	ILE
4	D	152	VAL
5	E	52	PRO
3	c	5196	VAL
3	c	5199	ILE
13	o	5256	PRO
15	u	5131	GLY
2	B	126	PRO
2	B	192	PRO
3	C	249	ILE
3	C	306	GLY
4	D	237	PRO

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Mol	Chain	Res	Type
5	E	27	ILE
1	a	5327	GLY
3	c	5367	GLU
3	c	5408	GLY
3	c	5470	PRO
13	o	5109	GLY
15	u	5084	PRO
16	v	5148	GLU
20	z	5061	VAL
3	C	414	ILE
4	D	39	PRO
7	H	60	VAL
8	I	10	ILE
13	O	143	PRO
13	O	187	GLY
1	a	5066	PRO
2	b	5219	PRO
4	d	5309	PRO
16	v	5128	PRO
20	Z	22	GLY
3	c	5298	PRO
3	c	5304	PRO
4	d	5237	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	270/279 (97%)	219 (81%)	51 (19%)	1 10
1	a	270/279 (97%)	214 (79%)	56 (21%)	1 8
2	B	386/388 (100%)	323 (84%)	63 (16%)	2 14
2	b	386/388 (100%)	325 (84%)	61 (16%)	2 15
3	C	349/349 (100%)	287 (82%)	62 (18%)	2 12
3	c	349/349 (100%)	283 (81%)	66 (19%)	1 10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
4	D	275/275 (100%)	220 (80%)	55 (20%)	1 9
4	d	275/275 (100%)	229 (83%)	46 (17%)	2 14
5	E	72/73 (99%)	58 (81%)	14 (19%)	1 9
5	e	72/73 (99%)	61 (85%)	11 (15%)	3 16
6	F	29/38 (76%)	21 (72%)	8 (28%)	0 3
6	f	29/38 (76%)	21 (72%)	8 (28%)	0 3
7	H	54/54 (100%)	38 (70%)	16 (30%)	0 2
7	h	54/54 (100%)	42 (78%)	12 (22%)	1 7
8	I	32/32 (100%)	27 (84%)	5 (16%)	2 15
8	i	32/32 (100%)	27 (84%)	5 (16%)	2 15
9	J	24/28 (86%)	12 (50%)	12 (50%)	0 0
9	j	24/28 (86%)	14 (58%)	10 (42%)	0 0
10	K	29/29 (100%)	21 (72%)	8 (28%)	0 3
10	k	29/29 (100%)	23 (79%)	6 (21%)	1 8
11	L	35/35 (100%)	28 (80%)	7 (20%)	1 9
11	l	35/35 (100%)	29 (83%)	6 (17%)	2 13
12	M	33/33 (100%)	27 (82%)	6 (18%)	2 11
12	m	33/33 (100%)	28 (85%)	5 (15%)	3 16
13	O	200/206 (97%)	170 (85%)	30 (15%)	3 16
13	o	200/206 (97%)	163 (82%)	37 (18%)	1 10
14	T	27/27 (100%)	18 (67%)	9 (33%)	0 1
14	t	27/27 (100%)	20 (74%)	7 (26%)	0 4
15	U	85/85 (100%)	72 (85%)	13 (15%)	3 16
15	u	85/85 (100%)	72 (85%)	13 (15%)	3 16
16	V	117/117 (100%)	98 (84%)	19 (16%)	2 14
16	v	117/117 (100%)	97 (83%)	20 (17%)	2 13
17	X	27/27 (100%)	17 (63%)	10 (37%)	0 0
17	x	27/27 (100%)	15 (56%)	12 (44%)	0 0
18	Y	21/21 (100%)	13 (62%)	8 (38%)	0 0
18	y	21/21 (100%)	12 (57%)	9 (43%)	0 0
20	Z	52/52 (100%)	40 (77%)	12 (23%)	1 6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
20	z	52/52 (100%)	37 (71%)	15 (29%)	0 2
All	All	4234/4296 (99%)	3421 (81%)	813 (19%)	1 9

All (813) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	21	VAL
1	A	27	ARG
1	A	46	ILE
1	A	56	PRO
1	A	60	ILE
1	A	73	TYR
1	A	83	VAL
1	A	84	PRO
1	A	89	ILE
1	A	91	LEU
1	A	92	HIS
1	A	102	LEU
1	A	121	LEU
1	A	131	TRP
1	A	133	LEU
1	A	139	MET
1	A	144	CYS
1	A	145	VAL
1	A	157	VAL
1	A	162	PRO
1	A	165	GLN
1	A	174	LEU
1	A	180	PHE
1	A	191	ASN
1	A	192	ILE
1	A	193	LEU
1	A	197	PHE
1	A	199	GLN
1	A	206	PHE
1	A	223	LEU
1	A	224	ILE
1	A	226	GLU
1	A	227	THR
1	A	247	ASN
1	A	257	ARG
1	A	266	ASN

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Mol	Chain	Res	Type
1	A	271	LEU
1	A	273	PHE
1	A	278	TRP
1	A	279	ARG
1	A	283	VAL
1	A	292	THR
1	A	298	ASN
1	A	316	THR
1	A	317	TRP
1	A	319	ASP
1	A	322	ASN
1	A	323	ARG
1	A	328	MET
1	A	334	ARG
1	A	337	HIS
2	B	6	TYR
2	B	8	VAL
2	B	13	ILE
2	B	24	LEU
2	B	51	VAL
2	B	81	THR
2	B	83	GLU
2	B	103	LEU
2	B	106	LEU
2	B	109	LEU
2	B	116	VAL
2	B	122	LEU
2	B	123	PHE
2	B	124	ARG
2	B	135	LEU
2	B	141	ILE
2	B	148	LEU
2	B	156	PHE
2	B	161	LEU
2	B	171	PRO
2	B	174	LEU
2	B	184	GLU
2	B	185	TRP
2	B	207	ILE
2	B	230	ARG
2	B	245	VAL
2	B	246	PHE

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Mol	Chain	Res	Type
2	B	251	VAL
2	B	256	MET
2	B	265	ILE
2	B	271	THR
2	B	277	SER
2	B	286	ARG
2	B	288	VAL
2	B	289	GLN
2	B	292	LEU
2	B	318	ASN
2	B	321	LYS
2	B	327	THR
2	B	336	ILE
2	B	345	VAL
2	B	346	PHE
2	B	356	VAL
2	B	359	MET
2	B	367	PRO
2	B	377	VAL
2	B	390	TYR
2	B	394	GLN
2	B	397	VAL
2	B	399	VAL
2	B	405	GLU
2	B	414	PRO
2	B	415	PRO
2	B	417	VAL
2	B	429	ILE
2	B	435	GLU
2	B	439	SER
2	B	443	PHE
2	B	446	SER
2	B	448	ARG
2	B	463	PHE
2	B	464	PHE
2	B	477	ASP
3	C	33	PHE
3	C	42	LEU
3	C	45	LEU
3	C	48	LYS
3	C	56	HIS
3	C	59	LEU

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Mol	Chain	Res	Type
3	C	67	MET
3	C	72	LEU
3	C	76	ILE
3	C	78	GLU
3	C	80	PRO
3	C	88	LEU
3	C	92	ILE
3	C	95	LEU
3	C	101	PRO
3	C	107	ASP
3	C	113	VAL
3	C	119	LEU
3	C	130	VAL
3	C	135	ARG
3	C	140	LEU
3	C	157	MET
3	C	160	ILE
3	C	210	PHE
3	C	214	LEU
3	C	224	ILE
3	C	227	VAL
3	C	231	GLU
3	C	237	HIS
3	C	244	CYS
3	C	245	ILE
3	C	262	ARG
3	C	265	ILE
3	C	313	GLN
3	C	320	ARG
3	C	328	VAL
3	C	334	PRO
3	C	335	THR
3	C	337	LEU
3	C	343	ARG
3	C	349	ILE
3	C	350	ILE
3	C	357	ARG
3	C	368	PRO
3	C	369	LEU
3	C	382	ASN
3	C	383	ASP
3	C	391	ARG

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Mol	Chain	Res	Type
3	C	413	GLU
3	C	416	SER
3	C	418	ASN
3	C	419	PHE
3	C	428	THR
3	C	433	LEU
3	C	439	VAL
3	C	441	HIS
3	C	442	LEU
3	C	447	ARG
3	C	456	GLU
3	C	459	ILE
3	C	467	LEU
3	C	472	LEU
4	D	21	TRP
4	D	24	ARG
4	D	35	ILE
4	D	43	LEU
4	D	45	LEU
4	D	53	THR
4	D	55	VAL
4	D	69	GLU
4	D	83	ASN
4	D	85	MET
4	D	89	LEU
4	D	90	LEU
4	D	91	LEU
4	D	92	LEU
4	D	96	GLU
4	D	102	THR
4	D	103	ARG
4	D	122	LEU
4	D	138	VAL
4	D	144	ILE
4	D	159	ILE
4	D	168	PHE
4	D	175	VAL
4	D	180	ARG
4	D	183	LEU
4	D	188	PHE
4	D	211	CYS
4	D	213	ILE

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Mol	Chain	Res	Type
4	D	217	THR
4	D	218	VAL
4	D	221	THR
4	D	222	LEU
4	D	232	PHE
4	D	233	ARG
4	D	248	THR
4	D	266	TRP
4	D	267	LEU
4	D	277	THR
4	D	279	LEU
4	D	280	TRP
4	D	281	MET
4	D	287	VAL
4	D	289	LEU
4	D	291	LEU
4	D	300	SER
4	D	307	GLU
4	D	311	PHE
4	D	313	THR
4	D	316	THR
4	D	319	LEU
4	D	320	LEU
4	D	323	GLU
4	D	337	GLU
4	D	340	VAL
4	D	345	VAL
5	E	8	ARG
5	E	12	ASP
5	E	13	ILE
5	E	15	THR
5	E	22	ILE
5	E	24	SER
5	E	25	ILE
5	E	30	LEU
5	E	45	ASP
5	E	58	GLN
5	E	60	GLN
5	E	69	ARG
5	E	81	GLU
5	E	83	LEU
6	F	18	VAL

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Mol	Chain	Res	Type
6	F	19	ARG
6	F	25	THR
6	F	26	LEU
6	F	32	PHE
6	F	37	ILE
6	F	40	MET
6	F	43	ILE
7	H	4	ARG
7	H	5	THR
7	H	10	ILE
7	H	11	LEU
7	H	12	ARG
7	H	17	GLU
7	H	25	TRP
7	H	33	VAL
7	H	39	LEU
7	H	42	LEU
7	H	44	ILE
7	H	45	ILE
7	H	49	TYR
7	H	52	THR
7	H	55	LEU
7	H	60	VAL
8	I	6	ILE
8	I	13	THR
8	I	18	LEU
8	I	23	PHE
8	I	24	LEU
9	J	8	ILE
9	J	10	LEU
9	J	11	TRP
9	J	12	ILE
9	J	13	VAL
9	J	21	VAL
9	J	22	ILE
9	J	23	VAL
9	J	24	ILE
9	J	30	TYR
9	J	39	SER
9	J	40	LEU
10	K	11	LEU
10	K	19	ASP

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Mol	Chain	Res	Type
10	K	28	ILE
10	K	30	VAL
10	K	31	LEU
10	K	32	PHE
10	K	33	PHE
10	K	38	VAL
11	L	8	GLN
11	L	21	LEU
11	L	23	LEU
11	L	24	ILE
11	L	27	LEU
11	L	31	PHE
11	L	32	SER
12	M	1	MET
12	M	8	PHE
12	M	9	ILE
12	M	13	LEU
12	M	29	THR
12	M	32	GLN
13	O	31	LEU
13	O	34	ASP
13	O	63	THR
13	O	75	THR
13	O	83	LYS
13	O	88	GLU
13	O	91	PHE
13	O	100	GLU
13	O	108	GLN
13	O	120	THR
13	O	122	VAL
13	O	127	ILE
13	O	136	MET
13	O	142	ILE
13	O	148	VAL
13	O	157	PRO
13	O	167	ASP
13	O	169	LYS
13	O	178	ARG
13	O	186	LYS
13	O	194	TYR
13	O	200	LEU
13	O	206	GLU

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Mol	Chain	Res	Type
13	O	213	VAL
13	O	215	ARG
13	O	224	SER
13	O	251	MET
13	O	254	HIS
13	O	258	GLU
13	O	269	ILE
14	T	1	MET
14	T	3	THR
14	T	4	ILE
14	T	7	VAL
14	T	13	ILE
14	T	14	ILE
14	T	16	LEU
14	T	26	PRO
14	T	29	ILE
15	U	39	LEU
15	U	58	ASN
15	U	61	ASN
15	U	73	PRO
15	U	90	ASP
15	U	98	THR
15	U	99	GLU
15	U	101	GLN
15	U	109	LEU
15	U	118	GLU
15	U	121	LEU
15	U	127	ARG
15	U	132	LEU
16	V	28	GLU
16	V	30	THR
16	V	33	VAL
16	V	34	LEU
16	V	35	THR
16	V	36	VAL
16	V	38	LEU
16	V	41	GLU
16	V	44	THR
16	V	48	THR
16	V	58	LEU
16	V	61	TYR
16	V	92	ARG

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Mol	Chain	Res	Type
16	V	102	MET
16	V	119	PRO
16	V	121	LEU
16	V	133	LEU
16	V	135	GLU
16	V	160	LYS
17	X	13	THR
17	X	16	LEU
17	X	23	LEU
17	X	24	LEU
17	X	28	VAL
17	X	30	LEU
17	X	32	LEU
17	X	34	PHE
17	X	37	LEU
17	X	38	ILE
18	Y	19	ILE
18	Y	21	GLN
18	Y	24	MET
18	Y	25	ILE
18	Y	36	ILE
18	Y	38	LEU
18	Y	39	LEU
18	Y	46	LEU
20	Z	3	ILE
20	Z	9	LEU
20	Z	12	LEU
20	Z	17	PHE
20	Z	27	TYR
20	Z	31	GLN
20	Z	34	ASP
20	Z	35	ARG
20	Z	37	LYS
20	Z	38	GLN
20	Z	42	LEU
20	Z	57	LEU
1	a	5027	ARG
1	a	5038	ILE
1	a	5046	ILE
1	a	5048	PHE
1	a	5060	ILE
1	a	5064	ARG

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Mol	Chain	Res	Type
1	a	5065	GLU
1	a	5075	ASN
1	a	5077	ILE
1	a	5078	ILE
1	a	5083	VAL
1	a	5089	ILE
1	a	5091	LEU
1	a	5092	HIS
1	a	5102	LEU
1	a	5121	LEU
1	a	5129	ARG
1	a	5130	GLN
1	a	5131	TRP
1	a	5133	LEU
1	a	5145	VAL
1	a	5157	VAL
1	a	5160	ILE
1	a	5165	GLN
1	a	5172	MET
1	a	5174	LEU
1	a	5189	GLU
1	a	5191	ASN
1	a	5192	ILE
1	a	5193	LEU
1	a	5197	PHE
1	a	5199	GLN
1	a	5205	VAL
1	a	5206	PHE
1	a	5210	LEU
1	a	5215	HIS
1	a	5226	GLU
1	a	5227	THR
1	a	5232	SER
1	a	5252	HIS
1	a	5257	ARG
1	a	5266	ASN
1	a	5268	SER
1	a	5271	LEU
1	a	5278	TRP
1	a	5279	ARG
1	a	5283	VAL
1	a	5292	THR

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Mol	Chain	Res	Type
1	a	5298	ASN
1	a	5316	THR
1	a	5317	TRP
1	a	5319	ASP
1	a	5322	ASN
1	a	5328	MET
1	a	5337	HIS
1	a	5341	LEU
2	b	5003	TYR
2	b	5005	VAL
2	b	5010	ILE
2	b	5033	SER
2	b	5048	VAL
2	b	5060	LEU
2	b	5078	THR
2	b	5099	VAL
2	b	5103	LEU
2	b	5113	VAL
2	b	5118	GLU
2	b	5119	LEU
2	b	5120	PHE
2	b	5121	ARG
2	b	5132	LEU
2	b	5135	MET
2	b	5138	ILE
2	b	5145	LEU
2	b	5153	PHE
2	b	5158	LEU
2	b	5168	PRO
2	b	5176	GLN
2	b	5181	GLU
2	b	5182	TRP
2	b	5227	ARG
2	b	5230	ASN
2	b	5234	VAL
2	b	5243	PHE
2	b	5248	VAL
2	b	5249	VAL
2	b	5259	THR
2	b	5262	ILE
2	b	5265	PHE
2	b	5268	THR

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Mol	Chain	Res	Type
2	b	5271	GLN
2	b	5274	SER
2	b	5283	ARG
2	b	5289	LEU
2	b	5306	LEU
2	b	5318	LYS
2	b	5333	ILE
2	b	5343	PHE
2	b	5356	MET
2	b	5359	PHE
2	b	5387	TYR
2	b	5394	VAL
2	b	5398	PHE
2	b	5402	GLU
2	b	5411	PRO
2	b	5414	VAL
2	b	5426	ILE
2	b	5429	PHE
2	b	5430	ASP
2	b	5432	GLU
2	b	5436	SER
2	b	5440	PHE
2	b	5445	ARG
2	b	5454	VAL
2	b	5460	PHE
2	b	5461	PHE
2	b	5474	ASP
3	c	5029	GLU
3	c	5033	PHE
3	c	5042	LEU
3	c	5045	LEU
3	c	5048	LYS
3	c	5056	HIS
3	c	5059	LEU
3	c	5072	LEU
3	c	5076	ILE
3	c	5078	GLU
3	c	5084	GLN
3	c	5088	LEU
3	c	5092	ILE
3	c	5095	LEU
3	c	5113	VAL

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Mol	Chain	Res	Type
3	c	5119	LEU
3	c	5124	VAL
3	c	5130	VAL
3	c	5135	ARG
3	c	5140	LEU
3	c	5149	TYR
3	c	5160	ILE
3	c	5170	ILE
3	c	5174	LEU
3	c	5207	ARG
3	c	5210	PHE
3	c	5212	TYR
3	c	5214	LEU
3	c	5224	ILE
3	c	5231	GLU
3	c	5237	HIS
3	c	5245	ILE
3	c	5256	PRO
3	c	5257	PHE
3	c	5262	ARG
3	c	5274	TYR
3	c	5276	LEU
3	c	5296	VAL
3	c	5321	ASP
3	c	5328	VAL
3	c	5332	GLN
3	c	5334	PRO
3	c	5337	LEU
3	c	5343	ARG
3	c	5350	ILE
3	c	5355	THR
3	c	5357	ARG
3	c	5369	LEU
3	c	5382	ASN
3	c	5383	ASP
3	c	5401	LEU
3	c	5405	ASN
3	c	5406	SER
3	c	5413	GLU
3	c	5414	ILE
3	c	5416	SER
3	c	5418	ASN

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Mol	Chain	Res	Type
3	c	5419	PHE
3	c	5428	THR
3	c	5439	VAL
3	c	5441	HIS
3	c	5447	ARG
3	c	5456	GLU
3	c	5459	ILE
3	c	5467	LEU
3	c	5472	LEU
4	d	5021	TRP
4	d	5024	ARG
4	d	5043	LEU
4	d	5045	LEU
4	d	5053	THR
4	d	5055	VAL
4	d	5068	LEU
4	d	5071	CYS
4	d	5085	MET
4	d	5089	LEU
4	d	5090	LEU
4	d	5092	LEU
4	d	5096	GLU
4	d	5101	PHE
4	d	5102	THR
4	d	5103	ARG
4	d	5110	LEU
4	d	5113	PHE
4	d	5128	ARG
4	d	5130	PHE
4	d	5138	VAL
4	d	5153	PHE
4	d	5159	ILE
4	d	5175	VAL
4	d	5180	ARG
4	d	5183	LEU
4	d	5188	PHE
4	d	5191	TRP
4	d	5213	ILE
4	d	5217	THR
4	d	5222	LEU
4	d	5232	PHE
4	d	5233	ARG

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Mol	Chain	Res	Type
4	d	5236	ASN
4	d	5248	THR
4	d	5266	TRP
4	d	5279	LEU
4	d	5280	TRP
4	d	5281	MET
4	d	5291	LEU
4	d	5303	ILE
4	d	5319	LEU
4	d	5323	GLU
4	d	5336	HIS
4	d	5340	VAL
4	d	5345	VAL
5	e	5008	ARG
5	e	5012	ASP
5	e	5013	ILE
5	e	5017	VAL
5	e	5030	LEU
5	e	5058	GLN
5	e	5065	LEU
5	e	5068	ASP
5	e	5069	ARG
5	e	5081	GLU
5	e	5083	LEU
6	f	5018	VAL
6	f	5019	ARG
6	f	5021	VAL
6	f	5025	THR
6	f	5026	LEU
6	f	5032	PHE
6	f	5037	ILE
6	f	5043	ILE
7	h	5004	ARG
7	h	5005	THR
7	h	5010	ILE
7	h	5011	LEU
7	h	5017	GLU
7	h	5025	TRP
7	h	5033	VAL
7	h	5039	LEU
7	h	5045	ILE
7	h	5049	TYR

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Mol	Chain	Res	Type
7	h	5056	ASP
7	h	5060	VAL
8	i	5006	ILE
8	i	5013	THR
8	i	5014	PHE
8	i	5024	LEU
8	i	5035	LYS
9	j	5008	ILE
9	j	5010	LEU
9	j	5011	TRP
9	j	5012	ILE
9	j	5013	VAL
9	j	5022	ILE
9	j	5023	VAL
9	j	5024	ILE
9	j	5036	LEU
9	j	5040	LEU
10	k	5011	LEU
10	k	5012	PRO
10	k	5028	ILE
10	k	5031	LEU
10	k	5032	PHE
10	k	5038	VAL
11	l	5007	ARG
11	l	5008	GLN
11	l	5017	LEU
11	l	5021	LEU
11	l	5026	VAL
11	l	5031	PHE
12	m	5001	MET
12	m	5008	PHE
12	m	5009	ILE
12	m	5011	THR
12	m	5032	GLN
13	o	5031	LEU
13	o	5034	ASP
13	o	5081	GLU
13	o	5083	LYS
13	o	5088	GLU
13	o	5091	PHE
13	o	5107	ILE
13	o	5114	ASN

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Mol	Chain	Res	Type
13	o	5119	LEU
13	o	5120	THR
13	o	5127	ILE
13	o	5128	ASP
13	o	5133	THR
13	o	5136	MET
13	o	5144	LEU
13	o	5145	LEU
13	o	5148	VAL
13	o	5155	THR
13	o	5156	GLN
13	o	5157	PRO
13	o	5162	ILE
13	o	5167	ASP
13	o	5169	LYS
13	o	5178	ARG
13	o	5183	LEU
13	o	5186	LYS
13	o	5194	TYR
13	o	5198	ILE
13	o	5206	GLU
13	o	5210	ARG
13	o	5213	VAL
13	o	5215	ARG
13	o	5222	GLN
13	o	5227	VAL
13	o	5254	HIS
13	o	5258	GLU
13	o	5269	ILE
14	t	5001	MET
14	t	5004	ILE
14	t	5007	VAL
14	t	5014	ILE
14	t	5016	LEU
14	t	5028	ARG
14	t	5029	ILE
15	u	5039	LEU
15	u	5055	ILE
15	u	5058	ASN
15	u	5061	ASN
15	u	5062	ILE
15	u	5073	PRO

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Mol	Chain	Res	Type
15	u	5088	VAL
15	u	5090	ASP
15	u	5095	PRO
15	u	5099	GLU
15	u	5109	LEU
15	u	5127	ARG
15	u	5132	LEU
16	v	5030	THR
16	v	5033	VAL
16	v	5035	THR
16	v	5036	VAL
16	v	5058	LEU
16	v	5061	TYR
16	v	5063	CYS
16	v	5066	CYS
16	v	5067	HIS
16	v	5083	GLU
16	v	5091	PRO
16	v	5092	ARG
16	v	5095	ILE
16	v	5112	GLN
16	v	5118	HIS
16	v	5121	LEU
16	v	5122	ARG
16	v	5133	LEU
16	v	5135	GLU
16	v	5160	LYS
17	x	5011	THR
17	x	5013	THR
17	x	5023	LEU
17	x	5024	LEU
17	x	5028	VAL
17	x	5030	LEU
17	x	5032	LEU
17	x	5034	PHE
17	x	5036	VAL
17	x	5037	LEU
17	x	5038	ILE
17	x	5040	ILE
18	y	5001	ILE
18	y	5003	GLN
18	y	5007	ILE

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Mol	Chain	Res	Type
18	y	5009	MET
18	y	5010	ILE
18	y	5017	ILE
18	y	5018	ILE
18	y	5024	ARG
18	y	5028	LEU
20	z	5003	ILE
20	z	5009	LEU
20	z	5012	LEU
20	z	5016	SER
20	z	5017	PHE
20	z	5027	TYR
20	z	5031	GLN
20	z	5034	ASP
20	z	5035	ARG
20	z	5037	LYS
20	z	5038	GLN
20	z	5040	ILE
20	z	5047	TRP
20	z	5048	ILE
20	z	5057	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (145) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	75	ASN
1	A	76	ASN
1	A	92	HIS
1	A	118	HIS
1	A	165	GLN
1	A	198	HIS
1	A	247	ASN
1	A	296	ASN
2	B	23	HIS
2	B	58	GLN
2	B	114	HIS
2	B	191	ASN
2	B	201	HIS
2	B	202	HIS
2	B	223	GLN
2	B	274	GLN
2	B	281	GLN

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Mol	Chain	Res	Type
2	B	285	ASN
2	B	289	GLN
2	B	318	ASN
2	B	343	HIS
2	B	348	ASN
2	B	394	GLN
2	B	395	GLN
2	B	409	GLN
3	C	44	ASN
3	C	201	ASN
3	C	322	GLN
3	C	415	ASN
3	C	418	ASN
3	C	441	HIS
4	D	72	ASN
4	D	98	GLN
4	D	129	GLN
4	D	142	ASN
4	D	197	HIS
4	D	220	ASN
4	D	224	GLN
4	D	236	ASN
4	D	255	GLN
4	D	301	GLN
4	D	334	GLN
4	D	350	ASN
5	E	60	GLN
5	E	75	GLN
5	E	82	GLN
6	F	41	GLN
7	H	15	ASN
10	K	40	GLN
11	L	4	ASN
12	M	5	GLN
12	M	32	GLN
13	O	43	ASN
13	O	72	GLN
13	O	150	ASN
13	O	158	ASN
13	O	222	GLN
13	O	245	GLN
15	U	67	GLN

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Mol	Chain	Res	Type
15	U	82	ASN
15	U	108	ASN
15	U	130	ASN
16	V	51	GLN
16	V	60	GLN
16	V	104	ASN
16	V	144	HIS
1	a	5019	ASN
1	a	5075	ASN
1	a	5076	ASN
1	a	5087	ASN
1	a	5092	HIS
1	a	5130	GLN
1	a	5165	GLN
1	a	5198	HIS
1	a	5247	ASN
1	a	5296	ASN
1	a	5315	ASN
1	a	5322	ASN
2	b	5055	GLN
2	b	5176	GLN
2	b	5188	ASN
2	b	5230	ASN
2	b	5278	GLN
2	b	5286	GLN
2	b	5328	ASN
2	b	5340	HIS
2	b	5371	ASN
2	b	5391	GLN
2	b	5392	GLN
2	b	5406	GLN
2	b	5463	HIS
3	c	5044	ASN
3	c	5118	HIS
3	c	5155	ASN
3	c	5293	ASN
3	c	5322	GLN
3	c	5327	ASN
3	c	5388	GLN
3	c	5398	HIS
3	c	5415	ASN
3	c	5441	HIS

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Mol	Chain	Res	Type
4	d	5087	HIS
4	d	5098	GLN
4	d	5129	GLN
4	d	5164	GLN
4	d	5186	GLN
4	d	5190	ASN
4	d	5197	HIS
4	d	5220	ASN
4	d	5224	GLN
4	d	5236	ASN
4	d	5239	GLN
4	d	5255	GLN
4	d	5268	HIS
4	d	5322	ASN
4	d	5332	GLN
4	d	5334	GLN
4	d	5336	HIS
5	e	5060	GLN
5	e	5075	GLN
5	e	5082	GLN
6	f	5024	HIS
6	f	5041	GLN
7	h	5015	ASN
11	l	5037	ASN
12	m	5005	GLN
12	m	5028	GLN
12	m	5032	GLN
12	m	5033	GLN
13	o	5108	GLN
13	o	5150	ASN
13	o	5158	ASN
13	o	5173	ASN
13	o	5212	ASN
15	u	5058	ASN
15	u	5067	GLN
15	u	5082	ASN
15	u	5108	ASN
15	u	5111	HIS
15	u	5130	ASN
16	v	5051	GLN
16	v	5060	GLN
17	x	5042	GLN

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Mol	Chain	Res	Type
18	y	5003	GLN
20	z	5006	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 130 ligands modelled in this entry, 6 are monoatomic - leaving 124 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
23	CLA	C	1033	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	c	6032	-	69,73,73	1.93	16 (23%)	82,113,113	2.48	28 (34%)
31	HEM	V	1041	16	50,50,50	1.88	8 (16%)	67,82,82	1.35	5 (7%)
23	CLA	d	6004	4	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
26	BCR	d	6050	-	41,41,41	3.94	16 (39%)	56,56,56	6.35	28 (50%)
23	CLA	C	1036	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
26	BCR	C	1054	-	41,41,41	4.00	17 (41%)	56,56,56	6.93	24 (42%)
23	CLA	b	6017	2	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
23	CLA	c	6034	-	69,73,73	1.90	16 (23%)	82,113,113	2.54	26 (31%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
26	BCR	b	6048	-	41,41,41	4.03	17 (41%)	56,56,56	6.42	22 (39%)
25	PQ9	a	6043	-	45,45,45	4.39	21 (46%)	56,57,57	4.90	20 (35%)
23	CLA	b	6023	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
24	PHO	A	1038	-	58,69,69	2.98	14 (24%)	55,99,99	3.43	20 (36%)
23	CLA	B	1011	2	69,73,73	1.93	16 (23%)	82,113,113	2.48	28 (34%)
24	PHO	A	1039	-	58,69,69	2.94	13 (22%)	55,99,99	3.52	19 (34%)
23	CLA	B	1015	-	69,73,73	1.95	20 (28%)	82,113,113	2.80	37 (45%)
23	CLA	d	6008	4	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
26	BCR	B	1045	-	41,41,41	4.01	17 (41%)	56,56,56	6.58	27 (48%)
23	CLA	C	1031	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	C	1034	-	69,73,73	1.97	17 (24%)	82,113,113	2.70	29 (35%)
23	CLA	D	1004	4	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
23	CLA	B	1012	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
26	BCR	b	6045	-	41,41,41	4.01	17 (41%)	56,56,56	6.58	26 (46%)
23	CLA	B	1018	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	c	6030	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	b	6014	-	69,73,73	1.89	19 (27%)	82,113,113	2.59	30 (36%)
23	CLA	b	6012	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
31	HEM	e	6040	6	50,50,50	1.88	8 (16%)	67,82,82	1.34	5 (7%)
23	CLA	d	6005	-	69,73,73	1.93	16 (23%)	82,113,113	2.47	28 (34%)
23	CLA	b	6021	2	69,73,73	1.93	16 (23%)	82,113,113	2.47	28 (34%)
26	BCR	b	6047	-	41,41,41	3.99	16 (39%)	56,56,56	7.22	26 (46%)
23	CLA	C	1037	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
26	BCR	k	6052	-	41,41,41	4.03	17 (41%)	56,56,56	5.22	21 (37%)
23	CLA	b	6018	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
26	BCR	A	1044	-	41,41,41	3.84	16 (39%)	56,56,56	6.30	30 (53%)
23	CLA	B	1010	-	69,73,73	1.91	19 (27%)	82,113,113	2.73	31 (37%)
23	CLA	B	1009	-	69,73,73	1.90	17 (24%)	82,113,113	2.44	28 (34%)
23	CLA	B	1020	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
26	BCR	z	6053	-	41,41,41	4.01	16 (39%)	56,56,56	6.64	26 (46%)
23	CLA	D	1008	4	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
26	BCR	H	1049	-	41,41,41	4.02	17 (41%)	56,56,56	6.31	21 (37%)
30	DGD	c	6055	-	67,67,67	0.85	2 (2%)	81,81,81	0.91	3 (3%)
30	DGD	H	1058	-	67,67,67	0.85	2 (2%)	81,81,81	0.91	3 (3%)
23	CLA	c	6029	3	69,73,73	1.91	18 (26%)	82,113,113	2.58	27 (32%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
23	CLA	a	6007	1	69,73,73	1.89	18 (26%)	82,113,113	2.53	30 (36%)
23	CLA	c	6033	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	c	6031	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	A	1003	1	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	b	6013	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	A	1006	-	69,73,73	1.93	16 (23%)	82,113,113	2.47	28 (34%)
29	MGE	D	1062	-	48,48,48	0.97	2 (4%)	56,56,56	1.02	3 (5%)
26	BCR	h	6049	-	41,41,41	4.02	17 (41%)	56,56,56	6.31	20 (35%)
23	CLA	B	1022	2	69,73,73	1.87	17 (24%)	82,113,113	2.60	31 (37%)
23	CLA	c	6037	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
29	MGE	d	6059	-	48,48,48	0.97	2 (4%)	56,56,56	1.02	3 (5%)
30	DGD	h	6058	-	67,67,67	0.85	2 (2%)	81,81,81	0.91	3 (3%)
26	BCR	t	1046	-	41,41,41	4.03	17 (41%)	56,56,56	6.58	24 (42%)
23	CLA	C	1028	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	c	6035	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
29	MGE	b	6060	-	48,48,48	0.96	2 (4%)	56,56,56	1.02	3 (5%)
23	CLA	D	1005	-	69,73,73	1.93	16 (23%)	82,113,113	2.47	28 (34%)
26	BCR	K	1051	-	41,41,41	3.99	16 (39%)	56,56,56	6.52	29 (51%)
23	CLA	A	1007	-	69,73,73	1.89	18 (26%)	82,113,113	2.53	30 (36%)
23	CLA	b	6022	2	69,73,73	1.87	17 (24%)	82,113,113	2.60	31 (37%)
23	CLA	H	1017	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
31	HEM	v	6041	-	50,50,50	1.87	8 (16%)	67,82,82	1.34	5 (7%)
26	BCR	c	6054	-	41,41,41	4.00	17 (41%)	56,56,56	6.93	24 (42%)
23	CLA	B	1024	-	69,73,73	1.88	19 (27%)	82,113,113	2.67	34 (41%)
30	DGD	c	6056	-	67,67,67	0.86	2 (2%)	81,81,81	0.91	3 (3%)
23	CLA	C	1025	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	C	1026	-	69,73,73	1.85	18 (26%)	82,113,113	2.55	29 (35%)
30	DGD	C	1055	-	67,67,67	0.86	2 (2%)	81,81,81	0.91	3 (3%)
23	CLA	C	1030	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	b	6024	-	69,73,73	1.89	19 (27%)	82,113,113	2.67	34 (41%)
23	CLA	B	1013	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
26	BCR	D	1050	-	41,41,41	3.94	16 (39%)	56,56,56	6.35	28 (50%)
23	CLA	b	6019	2	69,73,73	1.89	18 (26%)	82,113,113	2.65	36 (43%)
25	PQ9	D	1042	-	45,45,45	4.10	17 (37%)	56,57,57	5.08	25 (44%)
26	BCR	K	1052	-	41,41,41	4.02	17 (41%)	56,56,56	5.60	21 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
25	PQ9	d	6042	-	45,45,45	4.12	15 (33%)	56,57,57	5.08	26 (46%)
26	BCR	B	1047	-	41,41,41	3.99	16 (39%)	56,56,56	7.22	26 (46%)
23	CLA	C	1032	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	a	6003	1	69,73,73	1.93	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	C	1035	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
31	HEM	E	1040	6	50,50,50	1.87	7 (14%)	67,82,82	1.34	5 (7%)
29	MGE	L	1061	-	48,48,48	0.96	2 (4%)	56,56,56	1.02	3 (5%)
23	CLA	B	1023	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	c	6027	-	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
30	DGD	C	1056	-	67,67,67	0.86	2 (2%)	81,81,81	0.91	3 (3%)
23	CLA	b	6016	2	69,73,73	1.94	16 (23%)	82,113,113	2.47	27 (32%)
29	MGE	B	1060	-	48,48,48	0.97	2 (4%)	56,56,56	1.02	3 (5%)
23	CLA	c	6025	3	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
23	CLA	b	6020	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	CLA	c	6028	-	69,73,73	1.94	16 (23%)	82,113,113	2.47	28 (34%)
23	CLA	c	6026	-	69,73,73	1.85	18 (26%)	82,113,113	2.55	29 (35%)
26	BCR	k	6051	-	41,41,41	3.99	16 (39%)	56,56,56	6.51	29 (51%)
30	DGD	C	1057	-	67,67,67	0.85	2 (2%)	81,81,81	0.91	3 (3%)
30	DGD	c	6057	-	67,67,67	0.86	2 (2%)	81,81,81	0.91	3 (3%)
24	PHO	d	6038	-	58,69,69	2.98	14 (24%)	55,99,99	3.44	20 (36%)
23	CLA	a	6006	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
26	BCR	B	1048	-	41,41,41	4.03	17 (41%)	56,56,56	6.42	22 (39%)
23	CLA	C	1029	3	69,73,73	1.91	18 (26%)	82,113,113	2.58	27 (32%)
23	CLA	c	6036	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
29	MGE	d	6061	-	48,48,48	0.96	2 (4%)	56,56,56	1.02	3 (5%)
29	MGE	d	6062	-	48,48,48	0.97	2 (4%)	56,56,56	1.02	3 (5%)
26	BCR	T	6046	-	41,41,41	4.04	17 (41%)	56,56,56	7.68	28 (50%)
27	LHG	a	6063	-	48,48,48	0.94	2 (4%)	51,54,54	1.05	3 (5%)
29	MGE	J	1059	-	48,48,48	0.97	2 (4%)	56,56,56	1.02	3 (5%)
26	BCR	a	6044	-	41,41,41	3.84	16 (39%)	56,56,56	6.30	29 (51%)
26	BCR	Z	1053	-	41,41,41	4.01	16 (39%)	56,56,56	6.65	27 (48%)
23	CLA	b	6010	2	69,73,73	1.92	19 (27%)	82,113,113	2.74	31 (37%)
24	PHO	a	6039	-	58,69,69	2.94	13 (22%)	55,99,99	3.53	19 (34%)
23	CLA	B	1019	2	69,73,73	1.89	18 (26%)	82,113,113	2.65	36 (43%)
23	CLA	B	1016	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
25	PQ9	A	1043	-	45,45,45	4.25	17 (37%)	56,57,57	4.94	22 (39%)
23	CLA	b	6011	2	69,73,73	1.93	17 (24%)	82,113,113	2.48	28 (34%)
23	CLA	b	6015	-	69,73,73	1.95	19 (27%)	82,113,113	2.80	37 (45%)
23	CLA	B	1014	-	69,73,73	1.89	19 (27%)	82,113,113	2.59	29 (35%)
23	CLA	b	6009	-	69,73,73	1.91	18 (26%)	82,113,113	2.44	28 (34%)
23	CLA	C	1027	-	69,73,73	1.94	16 (23%)	82,113,113	2.47	28 (34%)
23	CLA	B	1021	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
27	LHG	A	1063	-	48,48,48	0.94	2 (4%)	51,54,54	1.05	3 (5%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	CLA	C	1033	3	2/2/15/20	24/39/115/115	-
23	CLA	c	6032	-	-	16/39/115/115	-
31	HEM	V	1041	16	-	7/14/54/54	-
23	CLA	d	6004	4	-	16/39/115/115	-
26	BCR	d	6050	-	-	12/29/63/63	0/2/2/2
23	CLA	C	1036	3	2/2/15/20	25/39/115/115	-
26	BCR	C	1054	-	-	14/29/63/63	0/2/2/2
23	CLA	b	6017	2	1/1/15/20	21/39/115/115	-
23	CLA	c	6034	-	4/4/15/20	27/39/115/115	-
26	BCR	b	6048	-	-	17/29/63/63	0/2/2/2
25	PQ9	a	6043	-	-	10/41/61/61	0/1/1/1
23	CLA	b	6023	2	2/2/15/20	19/39/115/115	-
24	PHO	A	1038	-	2/2/17/22	19/37/103/103	0/5/6/6
23	CLA	B	1011	2	-	16/39/115/115	-
24	PHO	A	1039	-	1/1/17/22	19/37/103/103	0/5/6/6
23	CLA	B	1015	-	-	19/39/115/115	-
23	CLA	d	6008	4	-	22/39/115/115	-
26	BCR	B	1045	-	-	8/29/63/63	0/2/2/2
23	CLA	C	1031	3	3/3/15/20	14/39/115/115	-
23	CLA	C	1034	-	4/4/15/20	25/39/115/115	-
23	CLA	D	1004	4	-	16/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	CLA	B	1012	-	-	22/39/115/115	-
26	BCR	b	6045	-	-	8/29/63/63	0/2/2/2
23	CLA	B	1018	-	-	11/39/115/115	-
23	CLA	c	6030	3	-	16/39/115/115	-
23	CLA	b	6014	-	1/1/15/20	19/39/115/115	-
23	CLA	b	6012	-	-	23/39/115/115	-
31	HEM	e	6040	6	-	3/14/54/54	-
23	CLA	d	6005	-	1/1/15/20	17/39/115/115	-
23	CLA	b	6021	2	2/2/15/20	20/39/115/115	-
26	BCR	b	6047	-	-	15/29/63/63	0/2/2/2
23	CLA	C	1037	3	2/2/15/20	16/39/115/115	-
26	BCR	k	6052	-	-	20/29/63/63	0/2/2/2
23	CLA	b	6018	-	-	11/39/115/115	-
26	BCR	A	1044	-	-	10/29/63/63	0/2/2/2
23	CLA	B	1009	-	3/3/15/20	18/39/115/115	-
23	CLA	B	1010	-	-	15/39/115/115	-
23	CLA	B	1020	2	1/1/15/20	19/39/115/115	-
26	BCR	z	6053	-	-	13/29/63/63	0/2/2/2
23	CLA	D	1008	4	-	22/39/115/115	-
26	BCR	H	1049	-	-	15/29/63/63	0/2/2/2
30	DGD	c	6055	-	-	27/55/95/95	0/2/2/2
30	DGD	H	1058	-	-	36/55/95/95	0/2/2/2
23	CLA	c	6029	3	2/2/15/20	17/39/115/115	-
23	CLA	a	6007	1	1/1/15/20	22/39/115/115	-
23	CLA	c	6033	3	2/2/15/20	24/39/115/115	-
23	CLA	c	6031	3	3/3/15/20	14/39/115/115	-
23	CLA	A	1003	1	-	18/39/115/115	-
23	CLA	b	6013	2	-	17/39/115/115	-
23	CLA	A	1006	-	-	23/39/115/115	-
29	MGE	D	1062	-	-	24/43/63/63	0/1/1/1
26	BCR	h	6049	-	-	15/29/63/63	0/2/2/2
23	CLA	B	1022	2	2/2/15/20	16/39/115/115	-
23	CLA	c	6037	-	2/2/15/20	16/39/115/115	-
29	MGE	d	6059	-	-	23/43/63/63	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
30	DGD	h	6058	-	-	36/55/95/95	0/2/2/2
26	BCR	t	1046	-	-	14/29/63/63	0/2/2/2
23	CLA	C	1028	-	3/3/15/20	18/39/115/115	-
23	CLA	c	6035	-	-	21/39/115/115	-
29	MGE	b	6060	-	-	22/43/63/63	0/1/1/1
23	CLA	D	1005	-	1/1/15/20	17/39/115/115	-
26	BCR	K	1051	-	-	15/29/63/63	0/2/2/2
23	CLA	A	1007	-	1/1/15/20	22/39/115/115	-
23	CLA	b	6022	2	2/2/15/20	16/39/115/115	-
23	CLA	H	1017	2	1/1/15/20	21/39/115/115	-
31	HEM	v	6041	-	-	7/14/54/54	-
26	BCR	c	6054	-	-	14/29/63/63	0/2/2/2
23	CLA	B	1024	-	1/1/15/20	14/39/115/115	-
30	DGD	c	6056	-	-	31/55/95/95	0/2/2/2
23	CLA	C	1025	3	1/1/15/20	21/39/115/115	-
23	CLA	C	1026	-	1/1/15/20	16/39/115/115	-
30	DGD	C	1055	-	-	27/55/95/95	0/2/2/2
23	CLA	C	1030	3	-	16/39/115/115	-
23	CLA	b	6024	-	1/1/15/20	14/39/115/115	-
23	CLA	B	1013	-	-	17/39/115/115	-
26	BCR	D	1050	-	-	12/29/63/63	0/2/2/2
23	CLA	b	6019	2	2/2/15/20	23/39/115/115	-
25	PQ9	D	1042	-	-	7/41/61/61	0/1/1/1
26	BCR	K	1052	-	-	20/29/63/63	0/2/2/2
25	PQ9	d	6042	-	-	8/41/61/61	0/1/1/1
26	BCR	B	1047	-	-	15/29/63/63	0/2/2/2
23	CLA	C	1032	-	-	16/39/115/115	-
23	CLA	a	6003	1	-	18/39/115/115	-
23	CLA	C	1035	3	-	21/39/115/115	-
31	HEM	E	1040	6	-	3/14/54/54	-
29	MGE	L	1061	-	-	24/43/63/63	0/1/1/1
23	CLA	B	1023	-	2/2/15/20	19/39/115/115	-
23	CLA	c	6027	-	3/3/15/20	19/39/115/115	-
30	DGD	C	1056	-	-	31/55/95/95	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	CLA	b	6016	2	-	20/39/115/115	-
29	MGE	B	1060	-	-	24/43/63/63	0/1/1/1
23	CLA	c	6025	3	1/1/15/20	21/39/115/115	-
23	CLA	b	6020	2	1/1/15/20	19/39/115/115	-
23	CLA	c	6028	-	3/3/15/20	18/39/115/115	-
23	CLA	c	6026	-	1/1/15/20	16/39/115/115	-
26	BCR	k	6051	-	-	15/29/63/63	0/2/2/2
30	DGD	C	1057	-	-	19/55/95/95	0/2/2/2
30	DGD	c	6057	-	-	19/55/95/95	0/2/2/2
24	PHO	d	6038	-	2/2/17/22	19/37/103/103	0/5/6/6
23	CLA	a	6006	-	-	22/39/115/115	-
26	BCR	B	1048	-	-	17/29/63/63	0/2/2/2
23	CLA	C	1029	3	2/2/15/20	17/39/115/115	-
23	CLA	c	6036	3	2/2/15/20	25/39/115/115	-
29	MGE	d	6061	-	-	24/43/63/63	0/1/1/1
29	MGE	d	6062	-	-	24/43/63/63	0/1/1/1
26	BCR	T	6046	-	-	9/20/63/63	-
27	LHG	a	6063	-	-	26/53/53/53	-
29	MGE	J	1059	-	-	23/43/63/63	0/1/1/1
26	BCR	a	6044	-	-	10/29/63/63	0/2/2/2
26	BCR	Z	1053	-	-	13/29/63/63	0/2/2/2
23	CLA	b	6010	2	-	15/39/115/115	-
24	PHO	a	6039	-	1/1/17/22	19/37/103/103	0/5/6/6
23	CLA	B	1019	2	2/2/15/20	23/39/115/115	-
23	CLA	B	1016	2	-	20/39/115/115	-
25	PQ9	A	1043	-	-	11/41/61/61	0/1/1/1
23	CLA	b	6011	2	-	16/39/115/115	-
23	CLA	b	6015	-	-	19/39/115/115	-
23	CLA	B	1014	-	1/1/15/20	19/39/115/115	-
23	CLA	b	6009	-	3/3/15/20	18/39/115/115	-
23	CLA	C	1027	-	3/3/15/20	18/39/115/115	-
23	CLA	B	1021	2	2/2/15/20	20/39/115/115	-
27	LHG	A	1063	-	-	26/53/53/53	-

All (1717) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	a	6043	PQ9	C27-C28	15.14	1.67	1.33
24	A	1039	PHO	OBD-CAD	14.54	1.41	1.22
24	A	1038	PHO	OBD-CAD	14.53	1.41	1.22
24	a	6039	PHO	OBD-CAD	14.51	1.41	1.22
24	d	6038	PHO	OBD-CAD	14.50	1.41	1.22
25	A	1043	PQ9	C27-C28	14.43	1.66	1.33
25	D	1042	PQ9	C27-C28	14.21	1.65	1.33
25	d	6042	PQ9	C27-C28	14.17	1.65	1.33
25	a	6043	PQ9	C17-C18	10.40	1.57	1.33
25	D	1042	PQ9	C37-C38	10.32	1.56	1.33
25	a	6043	PQ9	C12-C13	10.29	1.56	1.33
25	d	6042	PQ9	C37-C38	9.92	1.55	1.33
25	a	6043	PQ9	C37-C38	9.77	1.55	1.33
25	A	1043	PQ9	C12-C13	9.75	1.55	1.33
25	A	1043	PQ9	C17-C18	9.71	1.55	1.33
26	b	6047	BCR	C8-C9	-9.49	1.25	1.46
26	B	1047	BCR	C8-C9	-9.48	1.25	1.46
26	B	1048	BCR	C8-C9	-9.45	1.25	1.46
26	b	6048	BCR	C8-C9	-9.45	1.25	1.46
26	k	6051	BCR	C12-C13	-9.42	1.25	1.46
26	b	6048	BCR	C12-C13	-9.42	1.25	1.46
26	B	1048	BCR	C19-C18	-9.40	1.25	1.46
26	b	6048	BCR	C19-C18	-9.40	1.25	1.46
26	B	1048	BCR	C12-C13	-9.40	1.25	1.46
26	K	1051	BCR	C12-C13	-9.39	1.25	1.46
26	k	6052	BCR	C8-C9	-9.38	1.25	1.46
26	b	6045	BCR	C19-C18	-9.37	1.25	1.46
26	c	6054	BCR	C12-C13	-9.37	1.25	1.46
26	C	1054	BCR	C12-C13	-9.37	1.25	1.46
26	k	6052	BCR	C19-C18	-9.37	1.25	1.46
26	T	6046	BCR	C12-C13	-9.36	1.25	1.46
26	t	1046	BCR	C8-C9	-9.36	1.25	1.46
26	b	6045	BCR	C8-C9	-9.36	1.25	1.46
26	T	6046	BCR	C19-C18	-9.36	1.25	1.46
26	z	6053	BCR	C8-C9	-9.36	1.25	1.46
26	h	6049	BCR	C12-C13	-9.36	1.25	1.46
26	k	6052	BCR	C12-C13	-9.36	1.25	1.46
26	Z	1053	BCR	C8-C9	-9.36	1.25	1.46
26	H	1049	BCR	C19-C18	-9.35	1.25	1.46
26	K	1052	BCR	C19-C18	-9.35	1.25	1.46
26	B	1045	BCR	C19-C18	-9.35	1.25	1.46
26	H	1049	BCR	C12-C13	-9.35	1.25	1.46
26	b	6045	BCR	C12-C13	-9.35	1.25	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	K	1052	BCR	C8-C9	-9.35	1.25	1.46
26	h	6049	BCR	C19-C18	-9.35	1.25	1.46
26	t	1046	BCR	C19-C18	-9.35	1.25	1.46
26	t	1046	BCR	C12-C13	-9.34	1.26	1.46
26	B	1045	BCR	C12-C13	-9.34	1.26	1.46
26	B	1045	BCR	C8-C9	-9.34	1.26	1.46
26	T	6046	BCR	C8-C9	-9.33	1.26	1.46
26	K	1052	BCR	C12-C13	-9.33	1.26	1.46
26	Z	1053	BCR	C19-C18	-9.33	1.26	1.46
26	h	6049	BCR	C8-C9	-9.33	1.26	1.46
26	H	1049	BCR	C8-C9	-9.33	1.26	1.46
26	z	6053	BCR	C19-C18	-9.33	1.26	1.46
26	b	6047	BCR	C12-C13	-9.32	1.26	1.46
26	B	1047	BCR	C12-C13	-9.31	1.26	1.46
26	Z	1053	BCR	C12-C13	-9.31	1.26	1.46
26	z	6053	BCR	C12-C13	-9.30	1.26	1.46
26	C	1054	BCR	C8-C9	-9.29	1.26	1.46
26	c	6054	BCR	C8-C9	-9.29	1.26	1.46
26	k	6051	BCR	C19-C18	-9.28	1.26	1.46
26	K	1051	BCR	C19-C18	-9.27	1.26	1.46
26	D	1050	BCR	C12-C13	-9.25	1.26	1.46
26	d	6050	BCR	C12-C13	-9.21	1.26	1.46
26	c	6054	BCR	C19-C18	-9.19	1.26	1.46
26	K	1051	BCR	C8-C9	-9.19	1.26	1.46
26	C	1054	BCR	C19-C18	-9.17	1.26	1.46
26	k	6051	BCR	C8-C9	-9.17	1.26	1.46
26	B	1047	BCR	C19-C18	-9.16	1.26	1.46
26	b	6047	BCR	C19-C18	-9.15	1.26	1.46
26	d	6050	BCR	C19-C18	-9.14	1.26	1.46
26	D	1050	BCR	C19-C18	-9.13	1.26	1.46
26	D	1050	BCR	C8-C9	-9.05	1.26	1.46
26	d	6050	BCR	C8-C9	-9.04	1.26	1.46
26	a	6044	BCR	C12-C13	-9.02	1.26	1.46
26	A	1044	BCR	C19-C18	-9.02	1.26	1.46
26	a	6044	BCR	C19-C18	-9.02	1.26	1.46
26	a	6044	BCR	C8-C9	-9.02	1.26	1.46
26	A	1044	BCR	C8-C9	-9.01	1.26	1.46
26	A	1044	BCR	C12-C13	-9.01	1.26	1.46
25	A	1043	PQ9	C37-C38	8.97	1.53	1.33
25	d	6042	PQ9	C12-C13	8.92	1.53	1.33
25	d	6042	PQ9	C17-C18	8.91	1.53	1.33
25	D	1042	PQ9	C17-C18	8.61	1.52	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	D	1042	PQ9	C12-C13	8.56	1.52	1.33
25	d	6042	PQ9	C3-C2	8.48	1.55	1.34
25	a	6043	PQ9	C3-C2	8.39	1.55	1.34
25	A	1043	PQ9	C3-C2	8.27	1.54	1.34
25	D	1042	PQ9	C3-C2	8.10	1.54	1.34
24	a	6039	PHO	O1D-CGD	8.07	1.41	1.21
24	d	6038	PHO	O1D-CGD	8.06	1.41	1.21
24	A	1038	PHO	O1D-CGD	8.03	1.41	1.21
24	A	1039	PHO	O1D-CGD	8.03	1.41	1.21
26	k	6052	BCR	C20-C21	-8.01	1.18	1.43
26	H	1049	BCR	C20-C21	-8.00	1.18	1.43
26	H	1049	BCR	C16-C17	-8.00	1.18	1.43
26	B	1045	BCR	C16-C17	-7.99	1.18	1.43
26	h	6049	BCR	C20-C21	-7.99	1.18	1.43
26	T	6046	BCR	C20-C21	-7.99	1.18	1.43
26	h	6049	BCR	C16-C17	-7.99	1.18	1.43
26	Z	1053	BCR	C16-C17	-7.98	1.18	1.43
26	b	6045	BCR	C16-C17	-7.98	1.18	1.43
26	t	1046	BCR	C16-C17	-7.98	1.18	1.43
26	K	1052	BCR	C20-C21	-7.98	1.18	1.43
26	B	1045	BCR	C20-C21	-7.98	1.18	1.43
26	T	6046	BCR	C16-C17	-7.98	1.18	1.43
26	b	6045	BCR	C20-C21	-7.97	1.18	1.43
26	z	6053	BCR	C20-C21	-7.97	1.18	1.43
26	Z	1053	BCR	C20-C21	-7.97	1.18	1.43
26	k	6052	BCR	C16-C17	-7.97	1.18	1.43
26	z	6053	BCR	C16-C17	-7.96	1.18	1.43
26	k	6051	BCR	C20-C21	-7.96	1.18	1.43
26	K	1052	BCR	C16-C17	-7.95	1.18	1.43
26	t	1046	BCR	C20-C21	-7.95	1.18	1.43
26	K	1051	BCR	C20-C21	-7.94	1.18	1.43
26	b	6048	BCR	C16-C17	-7.93	1.18	1.43
26	B	1048	BCR	C16-C17	-7.92	1.18	1.43
26	d	6050	BCR	C16-C17	-7.92	1.18	1.43
31	v	6041	HEM	C3D-C2D	7.91	1.53	1.36
31	e	6040	HEM	C3D-C2D	7.90	1.53	1.36
31	V	1041	HEM	C3D-C2D	7.90	1.53	1.36
31	E	1040	HEM	C3D-C2D	7.90	1.53	1.36
26	D	1050	BCR	C16-C17	-7.89	1.18	1.43
26	K	1051	BCR	C16-C17	-7.86	1.18	1.43
26	k	6051	BCR	C16-C17	-7.86	1.18	1.43
26	C	1054	BCR	C16-C17	-7.86	1.18	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	c	6054	BCR	C16-C17	-7.86	1.18	1.43
26	b	6047	BCR	C16-C17	-7.86	1.18	1.43
26	B	1047	BCR	C16-C17	-7.82	1.18	1.43
26	B	1048	BCR	C20-C21	-7.82	1.18	1.43
26	b	6048	BCR	C20-C21	-7.82	1.18	1.43
26	b	6047	BCR	C20-C21	-7.80	1.19	1.43
26	B	1047	BCR	C20-C21	-7.78	1.19	1.43
26	D	1050	BCR	C20-C21	-7.76	1.19	1.43
26	d	6050	BCR	C20-C21	-7.75	1.19	1.43
26	c	6054	BCR	C20-C21	-7.73	1.19	1.43
26	C	1054	BCR	C20-C21	-7.72	1.19	1.43
26	a	6044	BCR	C20-C21	-7.68	1.19	1.43
26	a	6044	BCR	C16-C17	-7.67	1.19	1.43
26	A	1044	BCR	C20-C21	-7.66	1.19	1.43
26	A	1044	BCR	C16-C17	-7.66	1.19	1.43
25	A	1043	PQ9	C24-C23	-6.69	1.34	1.50
26	k	6052	BCR	C16-C15	-6.51	1.18	1.36
26	t	1046	BCR	C16-C15	-6.51	1.18	1.36
26	c	6054	BCR	C16-C15	-6.49	1.18	1.36
26	z	6053	BCR	C16-C15	-6.49	1.18	1.36
26	K	1052	BCR	C16-C15	-6.49	1.18	1.36
26	C	1054	BCR	C16-C15	-6.49	1.18	1.36
26	Z	1053	BCR	C16-C15	-6.48	1.18	1.36
26	T	6046	BCR	C16-C15	-6.48	1.18	1.36
26	b	6045	BCR	C16-C15	-6.47	1.18	1.36
26	B	1045	BCR	C16-C15	-6.47	1.18	1.36
26	H	1049	BCR	C16-C15	-6.47	1.18	1.36
26	h	6049	BCR	C16-C15	-6.46	1.18	1.36
26	k	6051	BCR	C16-C15	-6.40	1.18	1.36
26	K	1051	BCR	C16-C15	-6.39	1.18	1.36
26	D	1050	BCR	C16-C15	-6.38	1.18	1.36
25	D	1042	PQ9	C9-C10	-6.37	1.37	1.50
24	d	6038	PHO	O1A-CGA	6.36	1.41	1.22
26	d	6050	BCR	C16-C15	-6.36	1.18	1.36
24	A	1038	PHO	O1A-CGA	6.35	1.41	1.22
24	a	6039	PHO	O1A-CGA	6.35	1.41	1.22
24	A	1039	PHO	O1A-CGA	6.34	1.41	1.22
26	B	1048	BCR	C16-C15	-6.33	1.18	1.36
26	b	6048	BCR	C16-C15	-6.32	1.18	1.36
26	B	1047	BCR	C16-C15	-6.29	1.19	1.36
24	a	6039	PHO	C2-C3	6.29	1.47	1.33
25	a	6043	PQ9	C24-C23	-6.28	1.35	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	b	6047	BCR	C16-C15	-6.27	1.19	1.36
24	A	1039	PHO	C2-C3	6.26	1.47	1.33
26	h	6049	BCR	C20-C19	-6.24	1.18	1.34
25	d	6042	PQ9	C9-C10	-6.24	1.38	1.50
26	T	6046	BCR	C20-C19	-6.23	1.18	1.34
26	H	1049	BCR	C20-C19	-6.23	1.18	1.34
26	H	1049	BCR	C11-C12	-6.23	1.18	1.34
26	z	6053	BCR	C11-C12	-6.23	1.18	1.34
26	T	6046	BCR	C11-C12	-6.23	1.18	1.34
26	k	6052	BCR	C11-C12	-6.23	1.18	1.34
26	t	1046	BCR	C20-C19	-6.22	1.18	1.34
26	Z	1053	BCR	C11-C12	-6.22	1.18	1.34
26	t	1046	BCR	C11-C12	-6.22	1.18	1.34
26	h	6049	BCR	C11-C12	-6.21	1.18	1.34
24	d	6038	PHO	C2-C3	6.21	1.47	1.33
26	b	6045	BCR	C11-C12	-6.21	1.18	1.34
26	B	1045	BCR	C20-C19	-6.21	1.18	1.34
24	A	1038	PHO	C2-C3	6.20	1.47	1.33
26	K	1052	BCR	C11-C12	-6.20	1.18	1.34
26	z	6053	BCR	C20-C19	-6.20	1.18	1.34
26	b	6045	BCR	C20-C19	-6.20	1.18	1.34
26	B	1045	BCR	C11-C12	-6.20	1.18	1.34
26	Z	1053	BCR	C20-C19	-6.20	1.18	1.34
26	K	1052	BCR	C20-C19	-6.19	1.18	1.34
26	k	6052	BCR	C20-C19	-6.18	1.18	1.34
26	k	6051	BCR	C11-C12	-6.18	1.18	1.34
25	D	1042	PQ9	C24-C23	-6.17	1.35	1.50
26	K	1051	BCR	C11-C12	-6.17	1.18	1.34
26	b	6048	BCR	C20-C19	-6.17	1.18	1.34
26	B	1048	BCR	C11-C12	-6.15	1.18	1.34
26	B	1048	BCR	C20-C19	-6.14	1.18	1.34
26	a	6044	BCR	C16-C15	-6.13	1.19	1.36
26	d	6050	BCR	C11-C12	-6.12	1.18	1.34
26	A	1044	BCR	C16-C15	-6.12	1.19	1.36
26	b	6048	BCR	C11-C12	-6.12	1.18	1.34
26	D	1050	BCR	C11-C12	-6.11	1.18	1.34
26	b	6047	BCR	C11-C12	-6.10	1.18	1.34
26	B	1047	BCR	C11-C12	-6.10	1.18	1.34
26	C	1054	BCR	C11-C12	-6.04	1.18	1.34
26	K	1051	BCR	C20-C19	-6.03	1.18	1.34
26	c	6054	BCR	C11-C12	-6.01	1.19	1.34
25	a	6043	PQ9	C9-C10	-6.00	1.38	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	k	6051	BCR	C20-C19	-5.99	1.19	1.34
26	c	6054	BCR	C20-C19	-5.98	1.19	1.34
25	d	6042	PQ9	C24-C23	-5.98	1.36	1.50
26	B	1047	BCR	C20-C19	-5.97	1.19	1.34
26	C	1054	BCR	C20-C19	-5.97	1.19	1.34
26	b	6047	BCR	C20-C19	-5.95	1.19	1.34
26	D	1050	BCR	C20-C19	-5.94	1.19	1.34
26	d	6050	BCR	C20-C19	-5.93	1.19	1.34
25	A	1043	PQ9	C9-C10	-5.93	1.38	1.50
26	A	1044	BCR	C20-C19	-5.88	1.19	1.34
26	a	6044	BCR	C20-C19	-5.87	1.19	1.34
26	a	6044	BCR	C11-C12	-5.81	1.19	1.34
26	A	1044	BCR	C11-C12	-5.81	1.19	1.34
25	a	6043	PQ9	C22-C23	5.69	1.46	1.33
26	c	6054	BCR	C15-C14	-5.62	1.25	1.43
25	A	1043	PQ9	C29-C28	-5.62	1.37	1.50
26	C	1054	BCR	C15-C14	-5.61	1.25	1.43
26	K	1051	BCR	C15-C14	-5.58	1.25	1.43
26	K	1052	BCR	C15-C14	-5.57	1.25	1.43
26	Z	1053	BCR	C15-C14	-5.56	1.25	1.43
26	z	6053	BCR	C15-C14	-5.56	1.25	1.43
26	Z	1053	BCR	C11-C10	-5.56	1.25	1.43
26	k	6051	BCR	C15-C14	-5.56	1.25	1.43
26	k	6052	BCR	C15-C14	-5.56	1.25	1.43
26	b	6045	BCR	C15-C14	-5.56	1.25	1.43
26	K	1052	BCR	C11-C10	-5.56	1.25	1.43
26	h	6049	BCR	C15-C14	-5.55	1.26	1.43
26	B	1045	BCR	C15-C14	-5.55	1.26	1.43
26	t	1046	BCR	C15-C14	-5.55	1.26	1.43
26	H	1049	BCR	C15-C14	-5.55	1.26	1.43
26	b	6048	BCR	C11-C10	-5.55	1.26	1.43
26	z	6053	BCR	C11-C10	-5.55	1.26	1.43
26	H	1049	BCR	C11-C10	-5.54	1.26	1.43
26	t	1046	BCR	C11-C10	-5.54	1.26	1.43
26	T	6046	BCR	C15-C14	-5.54	1.26	1.43
26	B	1045	BCR	C11-C10	-5.54	1.26	1.43
26	k	6052	BCR	C11-C10	-5.53	1.26	1.43
26	B	1048	BCR	C11-C10	-5.53	1.26	1.43
26	h	6049	BCR	C11-C10	-5.53	1.26	1.43
26	T	6046	BCR	C11-C10	-5.52	1.26	1.43
26	k	6051	BCR	C11-C10	-5.52	1.26	1.43
26	K	1051	BCR	C11-C10	-5.52	1.26	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	b	6045	BCR	C11-C10	-5.51	1.26	1.43
26	b	6047	BCR	C11-C10	-5.50	1.26	1.43
26	B	1047	BCR	C11-C10	-5.50	1.26	1.43
26	d	6050	BCR	C15-C14	-5.50	1.26	1.43
26	c	6054	BCR	C11-C10	-5.49	1.26	1.43
26	D	1050	BCR	C15-C14	-5.49	1.26	1.43
26	C	1054	BCR	C11-C10	-5.47	1.26	1.43
26	D	1050	BCR	C11-C10	-5.45	1.26	1.43
26	b	6048	BCR	C15-C14	-5.45	1.26	1.43
26	d	6050	BCR	C11-C10	-5.44	1.26	1.43
26	b	6047	BCR	C15-C14	-5.43	1.26	1.43
26	B	1047	BCR	C15-C14	-5.43	1.26	1.43
26	B	1048	BCR	C15-C14	-5.43	1.26	1.43
23	a	6007	CLA	C3D-C4D	-5.42	1.32	1.44
26	k	6052	BCR	C23-C22	-5.42	1.34	1.46
23	A	1007	CLA	C3D-C4D	-5.42	1.32	1.44
26	c	6054	BCR	C23-C22	-5.41	1.34	1.46
26	B	1048	BCR	C23-C22	-5.41	1.34	1.46
26	C	1054	BCR	C23-C22	-5.41	1.34	1.46
26	b	6048	BCR	C23-C22	-5.38	1.34	1.46
26	Z	1053	BCR	C23-C22	-5.37	1.34	1.46
25	A	1043	PQ9	C22-C23	5.35	1.45	1.33
26	z	6053	BCR	C23-C22	-5.34	1.34	1.46
26	K	1052	BCR	C23-C22	-5.34	1.34	1.46
26	H	1049	BCR	C23-C22	-5.34	1.34	1.46
26	b	6047	BCR	C23-C22	-5.31	1.34	1.46
26	A	1044	BCR	C15-C14	-5.30	1.26	1.43
26	B	1047	BCR	C23-C22	-5.30	1.34	1.46
26	h	6049	BCR	C23-C22	-5.30	1.34	1.46
23	b	6010	CLA	C3D-C4D	-5.29	1.32	1.44
26	a	6044	BCR	C15-C14	-5.29	1.26	1.43
26	k	6051	BCR	C23-C22	-5.28	1.34	1.46
26	K	1051	BCR	C23-C22	-5.27	1.34	1.46
25	d	6042	PQ9	C21-C22	-5.27	1.34	1.50
23	B	1010	CLA	C3D-C4D	-5.27	1.32	1.44
23	c	6029	CLA	C3D-C4D	-5.25	1.32	1.44
23	C	1029	CLA	C3D-C4D	-5.25	1.32	1.44
26	d	6050	BCR	C23-C22	-5.22	1.34	1.46
26	a	6044	BCR	C11-C10	-5.22	1.27	1.43
25	d	6042	PQ9	C34-C33	-5.22	1.38	1.50
23	B	1022	CLA	C3D-C4D	-5.22	1.32	1.44
26	A	1044	BCR	C11-C10	-5.21	1.27	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	6022	CLA	C3D-C4D	-5.21	1.32	1.44
23	b	6024	CLA	C3D-C4D	-5.20	1.32	1.44
26	D	1050	BCR	C23-C22	-5.19	1.34	1.46
26	t	1046	BCR	C23-C22	-5.19	1.34	1.46
23	B	1024	CLA	C3D-C4D	-5.18	1.32	1.44
23	b	6020	CLA	O2D-CGD	5.17	1.45	1.33
23	b	6021	CLA	O2D-CGD	5.17	1.45	1.33
23	B	1019	CLA	C3D-C4D	-5.16	1.32	1.44
23	d	6004	CLA	O2D-CGD	5.16	1.45	1.33
23	c	6036	CLA	O2D-CGD	5.16	1.45	1.33
26	T	6046	BCR	C23-C22	-5.16	1.34	1.46
23	C	1033	CLA	O2D-CGD	5.16	1.45	1.33
23	C	1036	CLA	O2D-CGD	5.16	1.45	1.33
23	b	6018	CLA	O2D-CGD	5.16	1.45	1.33
23	B	1021	CLA	O2D-CGD	5.16	1.45	1.33
23	B	1011	CLA	O2D-CGD	5.15	1.45	1.33
23	b	6019	CLA	C3D-C4D	-5.15	1.32	1.44
23	b	6011	CLA	O2D-CGD	5.15	1.45	1.33
23	C	1035	CLA	O2D-CGD	5.15	1.45	1.33
23	c	6033	CLA	O2D-CGD	5.15	1.45	1.33
23	C	1025	CLA	O2D-CGD	5.14	1.45	1.33
23	C	1030	CLA	O2D-CGD	5.14	1.45	1.33
23	B	1018	CLA	O2D-CGD	5.14	1.45	1.33
23	B	1020	CLA	O2D-CGD	5.14	1.45	1.33
23	C	1034	CLA	O2D-CGD	5.14	1.45	1.33
23	A	1006	CLA	O2D-CGD	5.14	1.45	1.33
23	b	6012	CLA	O2D-CGD	5.14	1.45	1.33
23	c	6035	CLA	O2D-CGD	5.14	1.45	1.33
23	c	6031	CLA	O2D-CGD	5.14	1.45	1.33
23	C	1031	CLA	O2D-CGD	5.14	1.45	1.33
23	D	1004	CLA	O2D-CGD	5.14	1.45	1.33
23	c	6037	CLA	O2D-CGD	5.13	1.45	1.33
23	B	1013	CLA	O2D-CGD	5.13	1.45	1.33
23	C	1037	CLA	O2D-CGD	5.13	1.45	1.33
23	C	1027	CLA	O2D-CGD	5.13	1.45	1.33
23	C	1028	CLA	O2D-CGD	5.13	1.45	1.33
23	D	1005	CLA	O2D-CGD	5.13	1.45	1.33
23	c	6027	CLA	O2D-CGD	5.13	1.45	1.33
23	A	1003	CLA	O2D-CGD	5.13	1.45	1.33
23	B	1012	CLA	O2D-CGD	5.13	1.45	1.33
23	b	6013	CLA	O2D-CGD	5.13	1.45	1.33
23	c	6030	CLA	O2D-CGD	5.13	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	6028	CLA	O2D-CGD	5.12	1.45	1.33
23	a	6003	CLA	O2D-CGD	5.12	1.45	1.33
23	c	6025	CLA	O2D-CGD	5.12	1.45	1.33
23	b	6016	CLA	O2D-CGD	5.12	1.45	1.33
23	d	6005	CLA	O2D-CGD	5.12	1.45	1.33
23	c	6032	CLA	O2D-CGD	5.12	1.45	1.33
23	c	6034	CLA	O2D-CGD	5.12	1.45	1.33
23	C	1032	CLA	O2D-CGD	5.11	1.45	1.33
23	d	6008	CLA	O2D-CGD	5.11	1.45	1.33
23	B	1016	CLA	O2D-CGD	5.11	1.45	1.33
23	H	1017	CLA	O2D-CGD	5.11	1.45	1.33
23	b	6017	CLA	O2D-CGD	5.11	1.45	1.33
23	B	1023	CLA	O2D-CGD	5.10	1.45	1.33
25	D	1042	PQ9	C34-C33	-5.10	1.38	1.50
23	a	6006	CLA	O2D-CGD	5.10	1.45	1.33
23	D	1008	CLA	O2D-CGD	5.10	1.45	1.33
23	b	6023	CLA	O2D-CGD	5.10	1.45	1.33
25	D	1042	PQ9	C21-C22	-5.10	1.35	1.50
26	B	1045	BCR	C23-C22	-5.08	1.35	1.46
24	d	6038	PHO	C3D-C4D	-5.07	1.34	1.41
26	b	6045	BCR	C23-C22	-5.07	1.35	1.46
24	A	1038	PHO	C3D-C4D	-5.07	1.34	1.41
23	c	6026	CLA	C3D-C4D	-5.07	1.32	1.44
23	b	6015	CLA	C3D-C4D	-5.06	1.32	1.44
26	a	6044	BCR	C23-C22	-5.06	1.35	1.46
23	B	1015	CLA	C3D-C4D	-5.06	1.32	1.44
23	C	1026	CLA	C3D-C4D	-5.04	1.32	1.44
26	A	1044	BCR	C23-C22	-5.03	1.35	1.46
23	b	6009	CLA	O2D-CGD	5.01	1.45	1.33
23	B	1009	CLA	O2D-CGD	5.00	1.45	1.33
24	A	1038	PHO	C3D-C2D	4.95	1.48	1.39
24	d	6038	PHO	C3D-C2D	4.94	1.48	1.39
23	c	6034	CLA	C3D-C4D	-4.92	1.33	1.44
23	c	6034	CLA	C3C-C2C	4.91	1.47	1.36
23	D	1004	CLA	C3C-C2C	4.85	1.47	1.36
23	c	6035	CLA	C3C-C2C	4.85	1.47	1.36
23	C	1031	CLA	C3C-C2C	4.85	1.47	1.36
23	C	1037	CLA	C3C-C2C	4.85	1.47	1.36
23	c	6036	CLA	C3C-C2C	4.85	1.47	1.36
23	C	1025	CLA	C3C-C2C	4.85	1.47	1.36
23	D	1008	CLA	C3C-C2C	4.85	1.47	1.36
23	C	1035	CLA	C3C-C2C	4.85	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	6020	CLA	C3C-C2C	4.84	1.47	1.36
23	b	6013	CLA	C3C-C2C	4.84	1.47	1.36
23	B	1020	CLA	C3C-C2C	4.84	1.47	1.36
23	c	6030	CLA	C3C-C2C	4.84	1.47	1.36
23	C	1034	CLA	C3C-C2C	4.84	1.47	1.36
23	b	6023	CLA	C3C-C2C	4.84	1.47	1.36
23	C	1027	CLA	C3C-C2C	4.84	1.47	1.36
23	d	6008	CLA	C3C-C2C	4.84	1.47	1.36
23	b	6014	CLA	C3D-C4D	-4.83	1.33	1.44
23	c	6032	CLA	C3C-C2C	4.83	1.47	1.36
23	c	6037	CLA	C3C-C2C	4.83	1.47	1.36
23	B	1012	CLA	C3C-C2C	4.83	1.47	1.36
23	C	1033	CLA	C3C-C2C	4.83	1.47	1.36
23	d	6004	CLA	C3C-C2C	4.83	1.47	1.36
23	A	1003	CLA	C3C-C2C	4.83	1.47	1.36
23	B	1023	CLA	C3C-C2C	4.82	1.47	1.36
23	a	6006	CLA	C3C-C2C	4.82	1.47	1.36
23	C	1030	CLA	C3C-C2C	4.82	1.47	1.36
23	B	1016	CLA	C3C-C2C	4.82	1.47	1.36
23	H	1017	CLA	C3C-C2C	4.82	1.47	1.36
23	B	1018	CLA	C3C-C2C	4.82	1.47	1.36
23	b	6021	CLA	C3C-C2C	4.82	1.47	1.36
23	C	1032	CLA	C3C-C2C	4.82	1.47	1.36
23	c	6031	CLA	C3C-C2C	4.82	1.47	1.36
23	C	1036	CLA	C3C-C2C	4.81	1.47	1.36
23	B	1013	CLA	C3C-C2C	4.81	1.47	1.36
23	B	1021	CLA	C3C-C2C	4.81	1.47	1.36
23	c	6033	CLA	C3C-C2C	4.81	1.47	1.36
23	b	6018	CLA	C3C-C2C	4.81	1.47	1.36
23	C	1028	CLA	C3C-C2C	4.81	1.47	1.36
23	b	6012	CLA	C3C-C2C	4.81	1.47	1.36
23	c	6028	CLA	C3C-C2C	4.81	1.47	1.36
23	c	6025	CLA	C3C-C2C	4.81	1.47	1.36
23	a	6003	CLA	C3C-C2C	4.81	1.47	1.36
23	B	1014	CLA	C3D-C4D	-4.81	1.33	1.44
23	B	1011	CLA	C3C-C2C	4.80	1.47	1.36
23	b	6016	CLA	C3C-C2C	4.80	1.47	1.36
23	D	1005	CLA	C3C-C2C	4.80	1.47	1.36
23	b	6011	CLA	C3C-C2C	4.80	1.47	1.36
23	b	6024	CLA	O2D-CGD	4.80	1.45	1.33
23	B	1024	CLA	O2D-CGD	4.79	1.45	1.33
23	c	6027	CLA	C3C-C2C	4.79	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	A	1039	PHO	C3D-C4D	-4.79	1.34	1.41
24	a	6039	PHO	C3D-C2D	4.79	1.47	1.39
23	A	1006	CLA	C3C-C2C	4.79	1.47	1.36
23	d	6005	CLA	C3C-C2C	4.79	1.47	1.36
24	a	6039	PHO	C3D-C4D	-4.79	1.34	1.41
23	b	6017	CLA	C3C-C2C	4.79	1.47	1.36
24	A	1039	PHO	C3D-C2D	4.78	1.47	1.39
23	a	6007	CLA	O2D-CGD	4.76	1.44	1.33
23	A	1007	CLA	O2D-CGD	4.75	1.44	1.33
23	c	6033	CLA	C3D-C4D	-4.74	1.33	1.44
23	B	1009	CLA	C3C-C2C	4.71	1.46	1.36
23	C	1037	CLA	C3D-C4D	-4.71	1.33	1.44
23	b	6009	CLA	C3C-C2C	4.70	1.46	1.36
23	d	6004	CLA	C3D-C4D	-4.70	1.33	1.44
23	C	1033	CLA	C3D-C4D	-4.70	1.33	1.44
23	c	6037	CLA	C3D-C4D	-4.70	1.33	1.44
23	d	6008	CLA	C3D-C4D	-4.69	1.33	1.44
23	B	1012	CLA	C3D-C4D	-4.69	1.33	1.44
23	C	1034	CLA	C3D-C4D	-4.69	1.33	1.44
23	D	1004	CLA	C3D-C4D	-4.69	1.33	1.44
24	d	6038	PHO	C3D-CAD	-4.68	1.38	1.47
23	C	1031	CLA	C3D-C4D	-4.68	1.33	1.44
23	C	1032	CLA	C3D-C4D	-4.68	1.33	1.44
23	C	1036	CLA	C3D-C4D	-4.68	1.33	1.44
23	D	1008	CLA	C3D-C4D	-4.68	1.33	1.44
23	c	6035	CLA	C3D-C4D	-4.68	1.33	1.44
23	H	1017	CLA	C3D-C4D	-4.67	1.33	1.44
23	c	6027	CLA	C3D-C4D	-4.67	1.33	1.44
23	B	1011	CLA	C3D-C4D	-4.67	1.33	1.44
23	c	6028	CLA	C3D-C4D	-4.67	1.33	1.44
23	c	6031	CLA	C3D-C4D	-4.67	1.33	1.44
23	c	6032	CLA	C3D-C4D	-4.67	1.33	1.44
23	b	6011	CLA	C3D-C4D	-4.67	1.33	1.44
23	B	1016	CLA	C3D-C4D	-4.67	1.33	1.44
23	b	6009	CLA	C3D-C4D	-4.67	1.33	1.44
23	A	1003	CLA	C3D-C4D	-4.67	1.33	1.44
24	A	1038	PHO	C3D-CAD	-4.67	1.38	1.47
23	B	1018	CLA	C3D-C4D	-4.66	1.33	1.44
23	c	6036	CLA	C3D-C4D	-4.66	1.33	1.44
23	b	6017	CLA	C3D-C4D	-4.66	1.33	1.44
23	b	6020	CLA	C3D-C4D	-4.66	1.33	1.44
23	B	1020	CLA	C3D-C4D	-4.66	1.33	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	1028	CLA	C3D-C4D	-4.66	1.33	1.44
23	b	6012	CLA	C3D-C4D	-4.66	1.33	1.44
23	B	1021	CLA	C3D-C4D	-4.66	1.33	1.44
23	b	6023	CLA	C3D-C4D	-4.66	1.33	1.44
23	B	1013	CLA	C3D-C4D	-4.65	1.33	1.44
23	B	1023	CLA	C3D-C4D	-4.65	1.33	1.44
23	d	6005	CLA	C3D-C4D	-4.65	1.33	1.44
23	b	6016	CLA	C3D-C4D	-4.65	1.33	1.44
23	D	1005	CLA	C3D-C4D	-4.65	1.33	1.44
23	A	1006	CLA	C3D-C4D	-4.65	1.33	1.44
23	a	6006	CLA	C3D-C4D	-4.65	1.33	1.44
23	C	1035	CLA	C3D-C4D	-4.65	1.33	1.44
23	B	1009	CLA	C3D-C4D	-4.65	1.33	1.44
23	c	6030	CLA	C3D-C4D	-4.64	1.33	1.44
23	C	1025	CLA	C3D-C4D	-4.64	1.33	1.44
23	C	1027	CLA	C3D-C4D	-4.64	1.33	1.44
23	b	6021	CLA	C3D-C4D	-4.64	1.33	1.44
23	c	6025	CLA	C3D-C4D	-4.64	1.33	1.44
23	C	1030	CLA	C3D-C4D	-4.64	1.33	1.44
24	a	6039	PHO	C3D-CAD	-4.64	1.38	1.47
23	b	6013	CLA	C3D-C4D	-4.64	1.33	1.44
23	b	6018	CLA	C3D-C4D	-4.64	1.33	1.44
23	C	1029	CLA	O2D-CGD	4.63	1.44	1.33
23	a	6003	CLA	C3D-C4D	-4.63	1.33	1.44
23	c	6029	CLA	O2D-CGD	4.63	1.44	1.33
24	A	1039	PHO	C3D-CAD	-4.61	1.38	1.47
25	A	1043	PQ9	C35-C36	-4.61	1.38	1.53
23	b	6014	CLA	C3C-C2C	4.61	1.46	1.36
23	B	1014	CLA	C3C-C2C	4.61	1.46	1.36
23	b	6017	CLA	CHC-C1C	4.57	1.47	1.38
23	c	6035	CLA	CHC-C1C	4.55	1.47	1.38
23	H	1017	CLA	CHC-C1C	4.55	1.47	1.38
23	C	1035	CLA	CHC-C1C	4.54	1.47	1.38
23	c	6027	CLA	CHC-C1C	4.54	1.47	1.38
23	b	6016	CLA	CHC-C1C	4.54	1.47	1.38
23	C	1028	CLA	CHC-C1C	4.53	1.47	1.38
23	B	1014	CLA	CHC-C1C	4.53	1.47	1.38
23	d	6005	CLA	CHC-C1C	4.53	1.47	1.38
23	C	1034	CLA	CHC-C1C	4.53	1.47	1.38
23	c	6025	CLA	CHC-C1C	4.53	1.47	1.38
23	B	1023	CLA	CHC-C1C	4.53	1.47	1.38
23	b	6014	CLA	CHC-C1C	4.52	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	1029	CLA	C3C-C2C	4.52	1.46	1.36
23	D	1004	CLA	CHC-C1C	4.52	1.47	1.38
23	C	1030	CLA	CHC-C1C	4.52	1.47	1.38
23	c	6028	CLA	CHC-C1C	4.51	1.47	1.38
23	c	6029	CLA	C3C-C2C	4.51	1.46	1.36
23	C	1033	CLA	CHC-C1C	4.51	1.47	1.38
23	C	1025	CLA	CHC-C1C	4.51	1.47	1.38
23	c	6030	CLA	CHC-C1C	4.51	1.47	1.38
23	c	6036	CLA	CHC-C1C	4.51	1.47	1.38
23	c	6031	CLA	CHC-C1C	4.51	1.47	1.38
23	B	1018	CLA	CHC-C1C	4.51	1.47	1.38
23	b	6022	CLA	O2D-CGD	4.51	1.44	1.33
23	a	6003	CLA	CHC-C1C	4.51	1.47	1.38
23	d	6004	CLA	CHC-C1C	4.51	1.47	1.38
23	D	1008	CLA	CHC-C1C	4.50	1.47	1.38
23	B	1013	CLA	CHC-C1C	4.50	1.47	1.38
23	B	1022	CLA	O2D-CGD	4.50	1.44	1.33
23	B	1020	CLA	CHC-C1C	4.50	1.47	1.38
23	B	1016	CLA	CHC-C1C	4.50	1.47	1.38
23	c	6033	CLA	CHC-C1C	4.50	1.47	1.38
23	b	6023	CLA	CHC-C1C	4.50	1.47	1.38
23	A	1003	CLA	CHC-C1C	4.50	1.47	1.38
23	b	6013	CLA	CHC-C1C	4.50	1.47	1.38
23	B	1012	CLA	CHC-C1C	4.50	1.47	1.38
23	D	1005	CLA	CHC-C1C	4.49	1.47	1.38
23	C	1032	CLA	CHC-C1C	4.49	1.47	1.38
23	a	6006	CLA	CHC-C1C	4.49	1.47	1.38
23	b	6012	CLA	CHC-C1C	4.49	1.47	1.38
23	B	1021	CLA	CHC-C1C	4.49	1.47	1.38
23	c	6032	CLA	CHC-C1C	4.49	1.47	1.38
23	C	1027	CLA	CHC-C1C	4.49	1.47	1.38
23	b	6019	CLA	C3C-C2C	4.49	1.46	1.36
23	C	1031	CLA	CHC-C1C	4.49	1.47	1.38
23	b	6020	CLA	CHC-C1C	4.49	1.47	1.38
23	B	1011	CLA	CHC-C1C	4.48	1.47	1.38
23	B	1019	CLA	C3C-C2C	4.48	1.46	1.36
23	d	6008	CLA	CHC-C1C	4.48	1.47	1.38
23	b	6021	CLA	CHC-C1C	4.48	1.47	1.38
23	b	6018	CLA	CHC-C1C	4.48	1.47	1.38
23	C	1036	CLA	CHC-C1C	4.47	1.47	1.38
23	C	1037	CLA	CHC-C1C	4.47	1.47	1.38
23	b	6011	CLA	CHC-C1C	4.47	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	A	1006	CLA	CHC-C1C	4.47	1.47	1.38
23	c	6037	CLA	CHC-C1C	4.47	1.47	1.38
25	d	6042	PQ9	C22-C23	4.46	1.43	1.33
25	a	6043	PQ9	C35-C36	-4.45	1.39	1.53
25	D	1042	PQ9	C22-C23	4.44	1.43	1.33
23	C	1034	CLA	CHD-C1D	4.43	1.47	1.38
23	C	1030	CLA	CHD-C1D	4.43	1.47	1.38
23	b	6013	CLA	CHD-C1D	4.43	1.47	1.38
23	c	6033	CLA	CHD-C1D	4.43	1.47	1.38
25	a	6043	PQ9	C21-C22	-4.43	1.37	1.50
23	b	6021	CLA	CHD-C1D	4.43	1.47	1.38
23	b	6017	CLA	CHD-C1D	4.43	1.47	1.38
23	C	1033	CLA	CHD-C1D	4.42	1.47	1.38
31	v	6041	HEM	FE-ND	4.42	2.08	1.94
23	b	6011	CLA	CHD-C1D	4.42	1.47	1.38
23	B	1021	CLA	CHD-C1D	4.42	1.47	1.38
23	a	6003	CLA	CHD-C1D	4.42	1.47	1.38
23	B	1013	CLA	CHD-C1D	4.42	1.47	1.38
23	A	1003	CLA	CHD-C1D	4.42	1.47	1.38
23	H	1017	CLA	CHD-C1D	4.42	1.47	1.38
23	D	1004	CLA	CHD-C1D	4.41	1.47	1.38
31	V	1041	HEM	FE-ND	4.41	2.08	1.94
23	d	6004	CLA	CHD-C1D	4.41	1.47	1.38
31	e	6040	HEM	FE-ND	4.41	2.08	1.94
23	c	6030	CLA	CHD-C1D	4.41	1.47	1.38
23	B	1012	CLA	CHD-C1D	4.40	1.47	1.38
23	b	6020	CLA	CHD-C1D	4.40	1.47	1.38
23	B	1020	CLA	CHD-C1D	4.40	1.47	1.38
23	b	6012	CLA	CHD-C1D	4.40	1.47	1.38
23	B	1011	CLA	CHD-C1D	4.40	1.47	1.38
23	B	1016	CLA	CHD-C1D	4.40	1.47	1.38
23	D	1008	CLA	CHD-C1D	4.40	1.47	1.38
23	B	1023	CLA	CHD-C1D	4.40	1.47	1.38
23	c	6032	CLA	CHD-C1D	4.39	1.47	1.38
23	C	1032	CLA	CHD-C1D	4.39	1.47	1.38
23	b	6023	CLA	CHD-C1D	4.39	1.47	1.38
23	C	1025	CLA	CHD-C1D	4.39	1.47	1.38
23	b	6010	CLA	O2D-CGD	4.39	1.44	1.33
23	c	6025	CLA	CHD-C1D	4.39	1.47	1.38
23	A	1006	CLA	CHD-C1D	4.39	1.47	1.38
23	c	6031	CLA	CHD-C1D	4.39	1.47	1.38
23	a	6006	CLA	CHD-C1D	4.39	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	6035	CLA	CHD-C1D	4.39	1.47	1.38
23	c	6027	CLA	CHD-C1D	4.38	1.47	1.38
23	C	1027	CLA	CHD-C1D	4.38	1.47	1.38
31	E	1040	HEM	FE-ND	4.38	2.08	1.94
23	d	6008	CLA	CHD-C1D	4.38	1.47	1.38
23	c	6037	CLA	CHD-C1D	4.38	1.47	1.38
23	B	1018	CLA	CHD-C1D	4.37	1.47	1.38
23	C	1036	CLA	CHD-C1D	4.37	1.47	1.38
23	C	1037	CLA	CHD-C1D	4.37	1.47	1.38
23	B	1010	CLA	O2D-CGD	4.37	1.44	1.33
23	C	1031	CLA	CHD-C1D	4.37	1.46	1.38
23	b	6016	CLA	CHD-C1D	4.37	1.46	1.38
23	c	6036	CLA	CHD-C1D	4.37	1.46	1.38
23	C	1035	CLA	CHD-C1D	4.36	1.46	1.38
23	b	6014	CLA	O2D-CGD	4.36	1.43	1.33
23	A	1007	CLA	C3C-C2C	4.36	1.46	1.36
23	C	1028	CLA	CHD-C1D	4.36	1.46	1.38
23	B	1015	CLA	O2D-CGD	4.35	1.43	1.33
23	B	1014	CLA	O2D-CGD	4.35	1.43	1.33
23	b	6018	CLA	CHD-C1D	4.35	1.46	1.38
23	c	6028	CLA	CHD-C1D	4.34	1.46	1.38
23	b	6015	CLA	O2D-CGD	4.34	1.43	1.33
23	a	6007	CLA	C3C-C2C	4.34	1.46	1.36
23	b	6015	CLA	C3C-C2C	4.34	1.46	1.36
23	B	1019	CLA	O2D-CGD	4.34	1.43	1.33
23	B	1015	CLA	C3C-C2C	4.34	1.46	1.36
23	b	6010	CLA	CHD-C1D	4.34	1.46	1.38
23	D	1005	CLA	CHD-C1D	4.33	1.46	1.38
23	b	6019	CLA	O2D-CGD	4.33	1.43	1.33
23	c	6034	CLA	CHC-C1C	4.33	1.47	1.38
29	d	6062	MGE	O1G-C1A	4.31	1.45	1.33
23	B	1010	CLA	CHD-C1D	4.31	1.46	1.38
23	c	6037	CLA	O2A-CGA	4.31	1.45	1.33
29	B	1060	MGE	O1G-C1A	4.31	1.45	1.33
23	b	6010	CLA	C3C-C2C	4.31	1.46	1.36
23	C	1027	CLA	O2A-CGA	4.31	1.45	1.33
23	C	1032	CLA	O2A-CGA	4.31	1.45	1.33
23	D	1005	CLA	O2A-CGA	4.31	1.45	1.33
23	d	6005	CLA	O2A-CGA	4.30	1.45	1.33
30	c	6056	DGD	O1G-C1A	4.30	1.45	1.33
23	c	6032	CLA	O2A-CGA	4.30	1.45	1.33
30	C	1056	DGD	O1G-C1A	4.30	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	A	1003	CLA	O2A-CGA	4.30	1.45	1.33
23	c	6031	CLA	O2A-CGA	4.30	1.45	1.33
26	B	1048	BCR	C17-C18	-4.30	1.25	1.35
23	B	1016	CLA	O2A-CGA	4.30	1.45	1.33
23	b	6016	CLA	O2A-CGA	4.30	1.45	1.33
23	C	1037	CLA	O2A-CGA	4.30	1.45	1.33
30	c	6057	DGD	O1G-C1A	4.30	1.45	1.33
29	d	6059	MGE	O1G-C1A	4.30	1.45	1.33
29	d	6061	MGE	O1G-C1A	4.30	1.45	1.33
30	H	1058	DGD	O1G-C1A	4.30	1.45	1.33
30	h	6058	DGD	O1G-C1A	4.30	1.45	1.33
23	d	6005	CLA	CHD-C1D	4.30	1.46	1.38
26	t	1046	BCR	C21-C22	-4.30	1.25	1.35
23	b	6018	CLA	O2A-CGA	4.30	1.45	1.33
23	c	6025	CLA	O2A-CGA	4.30	1.45	1.33
23	b	6023	CLA	O2A-CGA	4.30	1.45	1.33
23	C	1035	CLA	O2A-CGA	4.30	1.45	1.33
29	L	1061	MGE	O1G-C1A	4.30	1.45	1.33
23	C	1025	CLA	O2A-CGA	4.30	1.45	1.33
29	D	1062	MGE	O1G-C1A	4.30	1.45	1.33
23	b	6011	CLA	O2A-CGA	4.29	1.45	1.33
23	c	6028	CLA	O2A-CGA	4.29	1.45	1.33
23	B	1018	CLA	O2A-CGA	4.29	1.45	1.33
23	H	1017	CLA	O2A-CGA	4.29	1.45	1.33
23	b	6021	CLA	O2A-CGA	4.29	1.45	1.33
23	B	1012	CLA	O2A-CGA	4.29	1.45	1.33
23	B	1023	CLA	O2A-CGA	4.29	1.45	1.33
27	a	6063	LHG	O8-C23	4.29	1.45	1.33
23	b	6012	CLA	O2A-CGA	4.29	1.45	1.33
23	B	1021	CLA	O2A-CGA	4.29	1.45	1.33
30	C	1057	DGD	O1G-C1A	4.29	1.45	1.33
23	A	1006	CLA	O2A-CGA	4.29	1.45	1.33
29	J	1059	MGE	O1G-C1A	4.29	1.45	1.33
23	C	1030	CLA	O2A-CGA	4.29	1.45	1.33
29	b	6060	MGE	O1G-C1A	4.29	1.45	1.33
23	b	6020	CLA	O2A-CGA	4.29	1.45	1.33
23	c	6036	CLA	O2A-CGA	4.29	1.45	1.33
30	c	6055	DGD	O1G-C1A	4.29	1.45	1.33
23	C	1028	CLA	O2A-CGA	4.29	1.45	1.33
23	D	1008	CLA	O2A-CGA	4.29	1.45	1.33
23	C	1031	CLA	O2A-CGA	4.28	1.45	1.33
23	c	6030	CLA	O2A-CGA	4.28	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	1013	CLA	O2A-CGA	4.28	1.45	1.33
30	C	1055	DGD	O1G-C1A	4.28	1.45	1.33
26	b	6048	BCR	C17-C18	-4.28	1.25	1.35
23	B	1010	CLA	C3C-C2C	4.28	1.46	1.36
23	B	1020	CLA	O2A-CGA	4.28	1.45	1.33
26	Z	1053	BCR	C17-C18	-4.28	1.25	1.35
23	c	6027	CLA	O2A-CGA	4.28	1.45	1.33
23	a	6006	CLA	O2A-CGA	4.28	1.45	1.33
26	K	1052	BCR	C17-C18	-4.28	1.25	1.35
23	b	6013	CLA	O2A-CGA	4.28	1.45	1.33
23	b	6017	CLA	O2A-CGA	4.28	1.45	1.33
23	d	6008	CLA	O2A-CGA	4.27	1.45	1.33
23	c	6035	CLA	O2A-CGA	4.27	1.45	1.33
23	D	1004	CLA	O2A-CGA	4.27	1.45	1.33
23	C	1036	CLA	O2A-CGA	4.27	1.45	1.33
23	C	1034	CLA	O2A-CGA	4.27	1.45	1.33
26	b	6045	BCR	C21-C22	-4.27	1.25	1.35
26	z	6053	BCR	C17-C18	-4.27	1.25	1.35
23	a	6003	CLA	O2A-CGA	4.27	1.45	1.33
23	B	1011	CLA	O2A-CGA	4.27	1.45	1.33
23	C	1026	CLA	C3C-C2C	4.27	1.46	1.36
27	A	1063	LHG	O8-C23	4.27	1.45	1.33
23	C	1033	CLA	O2A-CGA	4.26	1.45	1.33
26	B	1045	BCR	C21-C22	-4.26	1.25	1.35
25	d	6042	PQ9	C35-C36	-4.26	1.39	1.53
26	T	6046	BCR	C17-C18	-4.26	1.26	1.35
26	h	6049	BCR	C21-C22	-4.25	1.26	1.35
23	d	6004	CLA	O2A-CGA	4.25	1.45	1.33
23	c	6034	CLA	O2A-CGA	4.25	1.45	1.33
26	k	6052	BCR	C17-C18	-4.25	1.26	1.35
26	Z	1053	BCR	C21-C22	-4.25	1.26	1.35
26	T	6046	BCR	C21-C22	-4.25	1.26	1.35
26	t	1046	BCR	C17-C18	-4.25	1.26	1.35
26	K	1052	BCR	C21-C22	-4.25	1.26	1.35
26	B	1045	BCR	C17-C18	-4.24	1.26	1.35
23	c	6033	CLA	O2A-CGA	4.24	1.45	1.33
26	h	6049	BCR	C17-C18	-4.24	1.26	1.35
26	H	1049	BCR	C21-C22	-4.24	1.26	1.35
26	b	6045	BCR	C17-C18	-4.24	1.26	1.35
26	z	6053	BCR	C21-C22	-4.23	1.26	1.35
26	H	1049	BCR	C17-C18	-4.23	1.26	1.35
26	k	6052	BCR	C21-C22	-4.23	1.26	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	6022	CLA	C3C-C2C	4.22	1.45	1.36
23	c	6026	CLA	C3C-C2C	4.22	1.45	1.36
26	K	1051	BCR	C21-C22	-4.22	1.26	1.35
23	c	6029	CLA	CHC-C1C	4.22	1.46	1.38
26	k	6051	BCR	C21-C22	-4.22	1.26	1.35
23	B	1022	CLA	C3C-C2C	4.22	1.45	1.36
23	C	1029	CLA	CHC-C1C	4.19	1.46	1.38
23	B	1014	CLA	CHD-C1D	4.19	1.46	1.38
26	B	1048	BCR	C21-C22	-4.18	1.26	1.35
23	b	6014	CLA	CHD-C1D	4.18	1.46	1.38
26	D	1050	BCR	C17-C18	-4.18	1.26	1.35
26	b	6048	BCR	C21-C22	-4.18	1.26	1.35
26	C	1054	BCR	C17-C18	-4.17	1.26	1.35
23	B	1009	CLA	O2A-CGA	4.16	1.45	1.33
26	B	1047	BCR	C21-C22	-4.16	1.26	1.35
23	B	1024	CLA	CHD-C1D	4.16	1.46	1.38
23	b	6009	CLA	O2A-CGA	4.15	1.45	1.33
26	d	6050	BCR	C17-C18	-4.15	1.26	1.35
23	a	6007	CLA	O2A-CGA	4.15	1.45	1.33
23	A	1007	CLA	O2A-CGA	4.15	1.45	1.33
26	c	6054	BCR	C17-C18	-4.14	1.26	1.35
26	K	1051	BCR	C17-C18	-4.14	1.26	1.35
23	b	6024	CLA	CHD-C1D	4.13	1.46	1.38
26	k	6051	BCR	C17-C18	-4.13	1.26	1.35
26	B	1047	BCR	C17-C18	-4.12	1.26	1.35
26	b	6047	BCR	C21-C22	-4.12	1.26	1.35
29	d	6059	MGE	O2G-C1B	4.12	1.45	1.34
30	C	1055	DGD	O2G-C1B	4.12	1.45	1.34
29	b	6060	MGE	O2G-C1B	4.11	1.45	1.34
23	b	6009	CLA	CHC-C1C	4.11	1.46	1.38
23	b	6018	CLA	CHD-C4C	4.11	1.48	1.39
23	d	6004	CLA	CHD-C4C	4.11	1.48	1.39
23	B	1022	CLA	CHD-C1D	4.11	1.46	1.38
23	B	1009	CLA	CHD-C1D	4.10	1.46	1.38
29	J	1059	MGE	O2G-C1B	4.10	1.45	1.34
27	A	1063	LHG	O7-C7	4.10	1.45	1.34
23	a	6007	CLA	CHC-C1C	4.10	1.46	1.38
23	B	1009	CLA	CHC-C1C	4.10	1.46	1.38
29	d	6062	MGE	O2G-C1B	4.10	1.45	1.34
23	c	6036	CLA	CHD-C4C	4.10	1.48	1.39
30	H	1058	DGD	O2G-C1B	4.10	1.45	1.34
25	A	1043	PQ9	C21-C22	-4.10	1.38	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	6028	CLA	CHD-C4C	4.10	1.48	1.39
23	b	6009	CLA	CHD-C1D	4.10	1.46	1.38
26	b	6047	BCR	C17-C18	-4.09	1.26	1.35
23	c	6031	CLA	CHD-C4C	4.09	1.48	1.39
23	b	6022	CLA	CHD-C1D	4.09	1.46	1.38
27	a	6063	LHG	O7-C7	4.09	1.45	1.34
23	A	1007	CLA	CHC-C1C	4.09	1.46	1.38
23	C	1028	CLA	CHD-C4C	4.09	1.48	1.39
25	A	1043	PQ9	C34-C33	-4.09	1.40	1.50
30	c	6056	DGD	O2G-C1B	4.09	1.45	1.34
30	C	1056	DGD	O2G-C1B	4.09	1.45	1.34
23	b	6015	CLA	CHC-C1C	4.09	1.46	1.38
23	B	1018	CLA	CHD-C4C	4.09	1.48	1.39
23	C	1034	CLA	CHD-C4C	4.09	1.48	1.39
30	c	6057	DGD	O2G-C1B	4.09	1.45	1.34
25	a	6043	PQ9	C34-C33	-4.09	1.40	1.50
30	c	6055	DGD	O2G-C1B	4.09	1.45	1.34
29	D	1062	MGE	O2G-C1B	4.09	1.45	1.34
23	B	1015	CLA	CHC-C1C	4.08	1.46	1.38
29	B	1060	MGE	O2G-C1B	4.08	1.45	1.34
23	C	1030	CLA	CHD-C4C	4.08	1.48	1.39
23	C	1031	CLA	CHD-C4C	4.08	1.48	1.39
23	C	1036	CLA	CHD-C4C	4.08	1.48	1.39
30	h	6058	DGD	O2G-C1B	4.08	1.45	1.34
23	C	1037	CLA	CHD-C4C	4.08	1.48	1.39
31	E	1040	HEM	FE-NB	4.08	2.07	1.94
29	L	1061	MGE	O2G-C1B	4.08	1.45	1.34
23	H	1017	CLA	CHD-C4C	4.08	1.48	1.39
30	C	1057	DGD	O2G-C1B	4.08	1.45	1.34
23	c	6030	CLA	CHD-C4C	4.08	1.48	1.39
23	C	1033	CLA	CHD-C4C	4.08	1.48	1.39
23	c	6035	CLA	CHD-C4C	4.08	1.48	1.39
23	C	1035	CLA	CHD-C4C	4.07	1.48	1.39
23	c	6027	CLA	CHD-C4C	4.07	1.48	1.39
23	c	6037	CLA	CHD-C4C	4.07	1.48	1.39
23	D	1004	CLA	CHD-C4C	4.07	1.48	1.39
23	b	6011	CLA	CHD-C4C	4.07	1.48	1.39
23	D	1005	CLA	CHD-C4C	4.07	1.48	1.39
23	b	6013	CLA	CHD-C4C	4.07	1.48	1.39
23	A	1003	CLA	CHD-C4C	4.07	1.48	1.39
23	B	1013	CLA	CHD-C4C	4.07	1.48	1.39
23	d	6008	CLA	CHD-C4C	4.07	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	d	6061	MGE	O2G-C1B	4.07	1.45	1.34
23	a	6006	CLA	CHD-C4C	4.06	1.48	1.39
26	d	6050	BCR	C21-C22	-4.06	1.26	1.35
23	B	1011	CLA	CHD-C4C	4.06	1.48	1.39
23	C	1032	CLA	CHD-C4C	4.06	1.48	1.39
31	V	1041	HEM	FE-NB	4.06	2.07	1.94
23	d	6005	CLA	CHD-C4C	4.06	1.48	1.39
23	B	1015	CLA	O2A-CGA	4.06	1.45	1.33
23	c	6025	CLA	CHD-C4C	4.06	1.48	1.39
23	B	1023	CLA	CHD-C4C	4.06	1.48	1.39
23	b	6016	CLA	CHD-C4C	4.06	1.48	1.39
23	B	1016	CLA	CHD-C4C	4.06	1.48	1.39
23	b	6017	CLA	CHD-C4C	4.06	1.48	1.39
31	e	6040	HEM	FE-NB	4.06	2.07	1.94
26	D	1050	BCR	C21-C22	-4.06	1.26	1.35
23	C	1025	CLA	CHD-C4C	4.05	1.48	1.39
23	c	6034	CLA	CHD-C1D	4.05	1.46	1.38
23	b	6015	CLA	O2A-CGA	4.05	1.45	1.33
23	B	1020	CLA	CHD-C4C	4.05	1.48	1.39
23	B	1012	CLA	CHD-C4C	4.05	1.48	1.39
23	b	6019	CLA	O2A-CGA	4.05	1.45	1.33
23	a	6003	CLA	CHD-C4C	4.05	1.48	1.39
23	B	1019	CLA	O2A-CGA	4.05	1.45	1.33
23	C	1027	CLA	CHD-C4C	4.05	1.48	1.39
23	b	6021	CLA	CHD-C4C	4.05	1.48	1.39
23	A	1006	CLA	CHD-C4C	4.05	1.48	1.39
31	v	6041	HEM	FE-NB	4.05	2.07	1.94
23	D	1008	CLA	CHD-C4C	4.04	1.48	1.39
23	c	6033	CLA	CHD-C4C	4.04	1.48	1.39
26	C	1054	BCR	C21-C22	-4.04	1.26	1.35
23	b	6012	CLA	CHD-C4C	4.04	1.48	1.39
23	B	1021	CLA	CHD-C4C	4.04	1.48	1.39
23	c	6032	CLA	CHD-C4C	4.03	1.48	1.39
26	c	6054	BCR	C21-C22	-4.03	1.26	1.35
23	b	6023	CLA	CHD-C4C	4.03	1.48	1.39
23	C	1026	CLA	O2D-CGD	4.02	1.43	1.33
23	b	6020	CLA	CHD-C4C	4.02	1.48	1.39
23	c	6026	CLA	O2D-CGD	4.01	1.43	1.33
23	B	1024	CLA	CHD-C4C	4.00	1.48	1.39
23	b	6024	CLA	CHD-C4C	4.00	1.48	1.39
23	C	1026	CLA	CHC-C1C	3.99	1.46	1.38
23	c	6026	CLA	CHC-C1C	3.98	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	6024	CLA	CHC-C1C	3.96	1.46	1.38
25	D	1042	PQ9	C35-C36	-3.96	1.40	1.53
23	a	6007	CLA	CHD-C1D	3.95	1.46	1.38
23	b	6024	CLA	O2A-CGA	3.95	1.44	1.33
23	B	1024	CLA	O2A-CGA	3.94	1.44	1.33
23	B	1010	CLA	CHD-C4C	3.94	1.48	1.39
23	b	6010	CLA	CHD-C4C	3.94	1.48	1.39
23	A	1007	CLA	CHD-C1D	3.94	1.46	1.38
23	C	1029	CLA	CHD-C1D	3.93	1.46	1.38
25	A	1043	PQ9	C6-C5	3.93	1.58	1.50
23	B	1015	CLA	CHD-C1D	3.93	1.46	1.38
23	B	1022	CLA	CHC-C1C	3.93	1.46	1.38
23	b	6022	CLA	CHC-C1C	3.93	1.46	1.38
23	B	1009	CLA	CHD-C4C	3.93	1.48	1.39
26	A	1044	BCR	C21-C22	-3.92	1.26	1.35
23	c	6026	CLA	CHD-C1D	3.92	1.46	1.38
23	C	1026	CLA	CHD-C1D	3.92	1.46	1.38
23	b	6009	CLA	CHD-C4C	3.92	1.48	1.39
23	B	1024	CLA	CHC-C1C	3.92	1.46	1.38
26	a	6044	BCR	C21-C22	-3.91	1.26	1.35
26	A	1044	BCR	C17-C18	-3.91	1.26	1.35
23	b	6015	CLA	CHD-C1D	3.91	1.46	1.38
23	c	6029	CLA	CHD-C1D	3.90	1.46	1.38
26	a	6044	BCR	C17-C18	-3.88	1.26	1.35
25	a	6043	PQ9	C6-C5	3.87	1.58	1.50
23	c	6034	CLA	CHD-C4C	3.85	1.48	1.39
25	d	6042	PQ9	C6-C5	3.84	1.58	1.50
23	d	6004	CLA	OBD-CAD	3.84	1.29	1.22
23	b	6016	CLA	OBD-CAD	3.83	1.29	1.22
23	c	6035	CLA	OBD-CAD	3.82	1.29	1.22
23	c	6031	CLA	OBD-CAD	3.82	1.29	1.22
23	A	1006	CLA	OBD-CAD	3.82	1.29	1.22
23	B	1014	CLA	O2A-CGA	3.81	1.44	1.33
23	B	1022	CLA	O2A-CGA	3.81	1.44	1.33
23	b	6014	CLA	O2A-CGA	3.81	1.44	1.33
23	B	1019	CLA	OBD-CAD	3.81	1.29	1.22
23	b	6022	CLA	O2A-CGA	3.81	1.44	1.33
23	b	6019	CLA	OBD-CAD	3.81	1.29	1.22
23	B	1016	CLA	OBD-CAD	3.80	1.29	1.22
23	b	6012	CLA	OBD-CAD	3.80	1.29	1.22
23	b	6023	CLA	OBD-CAD	3.80	1.29	1.22
23	D	1004	CLA	OBD-CAD	3.79	1.29	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	1035	CLA	OBD-CAD	3.79	1.29	1.22
23	C	1031	CLA	OBD-CAD	3.79	1.29	1.22
23	B	1012	CLA	OBD-CAD	3.78	1.29	1.22
23	c	6027	CLA	OBD-CAD	3.78	1.29	1.22
23	B	1023	CLA	OBD-CAD	3.77	1.29	1.22
23	c	6037	CLA	OBD-CAD	3.77	1.29	1.22
23	C	1027	CLA	OBD-CAD	3.77	1.29	1.22
23	b	6018	CLA	OBD-CAD	3.77	1.29	1.22
23	B	1018	CLA	OBD-CAD	3.77	1.29	1.22
23	C	1037	CLA	OBD-CAD	3.77	1.29	1.22
23	C	1028	CLA	OBD-CAD	3.76	1.29	1.22
23	B	1020	CLA	OBD-CAD	3.76	1.29	1.22
23	b	6020	CLA	OBD-CAD	3.76	1.29	1.22
23	B	1019	CLA	CHD-C1D	3.76	1.45	1.38
23	C	1033	CLA	OBD-CAD	3.76	1.29	1.22
23	C	1030	CLA	OBD-CAD	3.76	1.29	1.22
23	c	6033	CLA	OBD-CAD	3.76	1.29	1.22
23	C	1034	CLA	OBD-CAD	3.76	1.29	1.22
23	C	1032	CLA	OBD-CAD	3.76	1.28	1.22
23	b	6011	CLA	OBD-CAD	3.75	1.28	1.22
23	b	6019	CLA	CHD-C1D	3.75	1.45	1.38
23	H	1017	CLA	OBD-CAD	3.75	1.28	1.22
23	d	6008	CLA	OBD-CAD	3.75	1.28	1.22
23	B	1013	CLA	OBD-CAD	3.75	1.28	1.22
23	b	6019	CLA	CHC-C1C	3.75	1.46	1.38
23	b	6021	CLA	OBD-CAD	3.75	1.28	1.22
23	d	6005	CLA	OBD-CAD	3.74	1.28	1.22
23	B	1019	CLA	CHC-C1C	3.74	1.46	1.38
25	D	1042	PQ9	C6-C5	3.74	1.58	1.50
23	c	6028	CLA	OBD-CAD	3.74	1.28	1.22
23	B	1011	CLA	OBD-CAD	3.74	1.28	1.22
23	D	1008	CLA	OBD-CAD	3.74	1.28	1.22
23	C	1036	CLA	OBD-CAD	3.74	1.28	1.22
23	c	6036	CLA	OBD-CAD	3.74	1.28	1.22
23	B	1024	CLA	C3C-C2C	3.73	1.44	1.36
23	a	6006	CLA	OBD-CAD	3.73	1.28	1.22
23	B	1021	CLA	OBD-CAD	3.73	1.28	1.22
23	C	1025	CLA	OBD-CAD	3.73	1.28	1.22
23	b	6024	CLA	C3C-C2C	3.73	1.44	1.36
23	A	1003	CLA	OBD-CAD	3.73	1.28	1.22
23	c	6032	CLA	OBD-CAD	3.73	1.28	1.22
23	c	6030	CLA	OBD-CAD	3.72	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	a	6003	CLA	OBD-CAD	3.72	1.28	1.22
23	c	6025	CLA	OBD-CAD	3.72	1.28	1.22
23	c	6029	CLA	O2A-CGA	3.72	1.44	1.33
23	b	6017	CLA	OBD-CAD	3.72	1.28	1.22
23	b	6015	CLA	CHD-C4C	3.72	1.47	1.39
23	B	1015	CLA	CHD-C4C	3.71	1.47	1.39
23	b	6013	CLA	OBD-CAD	3.71	1.28	1.22
23	D	1005	CLA	OBD-CAD	3.71	1.28	1.22
23	C	1029	CLA	O2A-CGA	3.70	1.44	1.33
23	b	6014	CLA	CHD-C4C	3.70	1.47	1.39
23	B	1014	CLA	CHD-C4C	3.69	1.47	1.39
23	b	6010	CLA	CHC-C1C	3.67	1.45	1.38
23	B	1010	CLA	O2A-CGA	3.65	1.44	1.33
23	b	6009	CLA	OBD-CAD	3.65	1.28	1.22
23	c	6029	CLA	CHD-C4C	3.64	1.47	1.39
23	b	6010	CLA	O2A-CGA	3.64	1.44	1.33
23	C	1029	CLA	CHD-C4C	3.63	1.47	1.39
23	B	1010	CLA	CHC-C1C	3.62	1.45	1.38
23	B	1009	CLA	OBD-CAD	3.60	1.28	1.22
23	C	1026	CLA	O2A-CGA	3.58	1.43	1.33
23	c	6030	CLA	CHC-C4B	3.57	1.47	1.39
23	c	6026	CLA	O2A-CGA	3.57	1.43	1.33
23	d	6008	CLA	CHC-C4B	3.56	1.47	1.39
23	b	6013	CLA	CHC-C4B	3.56	1.47	1.39
23	c	6025	CLA	CHC-C4B	3.54	1.47	1.39
23	C	1026	CLA	CHD-C4C	3.54	1.47	1.39
23	c	6026	CLA	CHD-C4C	3.54	1.47	1.39
23	c	6032	CLA	CHC-C4B	3.54	1.47	1.39
23	B	1013	CLA	CHC-C4B	3.54	1.47	1.39
23	C	1025	CLA	CHC-C4B	3.53	1.47	1.39
23	C	1030	CLA	CHC-C4B	3.53	1.47	1.39
23	C	1033	CLA	CHC-C4B	3.53	1.47	1.39
23	a	6006	CLA	CHC-C4B	3.53	1.47	1.39
23	c	6033	CLA	CHC-C4B	3.52	1.47	1.39
23	D	1008	CLA	CHC-C4B	3.52	1.47	1.39
23	b	6012	CLA	CHC-C4B	3.52	1.47	1.39
23	C	1031	CLA	CHC-C4B	3.51	1.47	1.39
23	H	1017	CLA	CHC-C4B	3.51	1.47	1.39
23	A	1006	CLA	CHC-C4B	3.51	1.47	1.39
23	b	6017	CLA	CHC-C4B	3.51	1.47	1.39
23	C	1032	CLA	CHC-C4B	3.51	1.47	1.39
23	C	1027	CLA	CHC-C4B	3.51	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	1037	CLA	CHC-C4B	3.51	1.47	1.39
23	b	6022	CLA	CHD-C4C	3.51	1.47	1.39
23	b	6020	CLA	CHC-C4B	3.50	1.47	1.39
23	B	1012	CLA	CHC-C4B	3.50	1.47	1.39
23	C	1036	CLA	CHC-C4B	3.50	1.47	1.39
23	B	1020	CLA	CHC-C4B	3.50	1.47	1.39
23	b	6018	CLA	CHC-C4B	3.50	1.47	1.39
23	c	6036	CLA	CHC-C4B	3.50	1.47	1.39
23	B	1023	CLA	CHC-C4B	3.50	1.47	1.39
23	c	6027	CLA	CHC-C4B	3.50	1.47	1.39
23	c	6037	CLA	CHC-C4B	3.50	1.47	1.39
23	D	1005	CLA	CHC-C4B	3.49	1.47	1.39
23	A	1003	CLA	CHC-C4B	3.49	1.47	1.39
23	D	1004	CLA	CHC-C4B	3.49	1.47	1.39
23	d	6005	CLA	CHC-C4B	3.49	1.47	1.39
23	b	6023	CLA	CHC-C4B	3.49	1.47	1.39
23	C	1034	CLA	CHC-C4B	3.49	1.47	1.39
23	B	1016	CLA	CHC-C4B	3.49	1.47	1.39
23	b	6021	CLA	CHC-C4B	3.49	1.47	1.39
23	B	1018	CLA	CHC-C4B	3.49	1.47	1.39
23	c	6031	CLA	CHC-C4B	3.48	1.47	1.39
23	B	1021	CLA	CHC-C4B	3.47	1.47	1.39
23	d	6004	CLA	CHC-C4B	3.47	1.47	1.39
23	B	1011	CLA	CHC-C4B	3.47	1.47	1.39
23	B	1022	CLA	CHD-C4C	3.47	1.47	1.39
23	C	1035	CLA	CHC-C4B	3.47	1.47	1.39
23	C	1028	CLA	CHC-C4B	3.47	1.47	1.39
23	a	6003	CLA	CHC-C4B	3.46	1.47	1.39
23	b	6016	CLA	CHC-C4B	3.46	1.47	1.39
23	b	6019	CLA	CHB-C1B	3.46	1.47	1.39
23	c	6028	CLA	CHC-C4B	3.46	1.47	1.39
23	b	6011	CLA	CHC-C4B	3.45	1.47	1.39
23	c	6035	CLA	CHC-C4B	3.45	1.47	1.39
23	B	1019	CLA	CHB-C1B	3.44	1.47	1.39
23	c	6034	CLA	OBD-CAD	3.43	1.28	1.22
24	d	6038	PHO	O2D-CGD	-3.42	1.24	1.33
24	A	1038	PHO	O2D-CGD	-3.41	1.24	1.33
23	A	1007	CLA	CHD-C4C	3.40	1.46	1.39
23	B	1014	CLA	CHC-C4B	3.38	1.47	1.39
24	a	6039	PHO	CBB-CAB	3.37	1.50	1.29
23	d	6008	CLA	CHB-C1B	3.37	1.47	1.39
23	b	6018	CLA	CHB-C1B	3.37	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	A	1039	PHO	CBB-CAB	3.37	1.50	1.29
23	b	6014	CLA	CHC-C4B	3.37	1.47	1.39
23	B	1015	CLA	C1D-ND	-3.37	1.33	1.37
23	a	6007	CLA	CHD-C4C	3.36	1.46	1.39
23	c	6028	CLA	CHB-C1B	3.35	1.46	1.39
23	c	6036	CLA	CHB-C1B	3.35	1.46	1.39
23	C	1035	CLA	CHB-C1B	3.35	1.46	1.39
23	c	6034	CLA	CHC-C4B	3.35	1.46	1.39
24	A	1038	PHO	CBB-CAB	3.34	1.50	1.29
23	c	6035	CLA	CHB-C1B	3.34	1.46	1.39
23	c	6030	CLA	CHB-C1B	3.34	1.46	1.39
23	D	1008	CLA	CHB-C1B	3.34	1.46	1.39
24	d	6038	PHO	CBB-CAB	3.34	1.50	1.29
23	H	1017	CLA	CHB-C1B	3.33	1.46	1.39
23	b	6016	CLA	CHB-C1B	3.33	1.46	1.39
23	C	1030	CLA	CHB-C1B	3.33	1.46	1.39
23	B	1018	CLA	CHB-C1B	3.33	1.46	1.39
23	c	6027	CLA	CHB-C1B	3.33	1.46	1.39
23	B	1009	CLA	CHB-C1B	3.33	1.46	1.39
23	b	6012	CLA	CHB-C1B	3.32	1.46	1.39
23	b	6017	CLA	CHB-C1B	3.32	1.46	1.39
23	C	1028	CLA	CHB-C1B	3.32	1.46	1.39
23	B	1024	CLA	OBD-CAD	3.32	1.28	1.22
23	C	1036	CLA	CHB-C1B	3.32	1.46	1.39
23	b	6009	CLA	CHB-C1B	3.32	1.46	1.39
23	d	6004	CLA	CHB-C1B	3.32	1.46	1.39
23	A	1006	CLA	CHB-C1B	3.31	1.46	1.39
23	B	1012	CLA	CHB-C1B	3.31	1.46	1.39
23	C	1034	CLA	CHB-C1B	3.31	1.46	1.39
23	B	1016	CLA	CHB-C1B	3.31	1.46	1.39
23	b	6011	CLA	CHB-C1B	3.31	1.46	1.39
23	b	6015	CLA	C1D-ND	-3.31	1.33	1.37
23	B	1023	CLA	CHB-C1B	3.31	1.46	1.39
23	B	1015	CLA	C1B-NB	-3.31	1.33	1.37
23	C	1032	CLA	CHB-C1B	3.31	1.46	1.39
23	B	1021	CLA	CHB-C1B	3.31	1.46	1.39
23	b	6024	CLA	OBD-CAD	3.30	1.28	1.22
23	a	6007	CLA	C1B-NB	-3.30	1.33	1.37
23	B	1015	CLA	CHC-C4B	3.30	1.46	1.39
23	A	1007	CLA	C1B-NB	-3.30	1.33	1.37
23	D	1004	CLA	CHB-C1B	3.30	1.46	1.39
23	B	1015	CLA	OBD-CAD	3.30	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	1031	CLA	CHB-C1B	3.30	1.46	1.39
23	b	6020	CLA	CHB-C1B	3.29	1.46	1.39
23	C	1026	CLA	OBD-CAD	3.29	1.28	1.22
23	B	1011	CLA	CHB-C1B	3.29	1.46	1.39
23	C	1025	CLA	CHB-C1B	3.29	1.46	1.39
23	B	1020	CLA	CHB-C1B	3.29	1.46	1.39
23	b	6013	CLA	CHB-C1B	3.29	1.46	1.39
23	C	1033	CLA	CHB-C1B	3.29	1.46	1.39
23	D	1005	CLA	CHB-C1B	3.29	1.46	1.39
23	a	6006	CLA	CHB-C1B	3.29	1.46	1.39
23	b	6021	CLA	CHB-C1B	3.28	1.46	1.39
23	c	6031	CLA	CHB-C1B	3.28	1.46	1.39
23	B	1013	CLA	CHB-C1B	3.28	1.46	1.39
23	c	6025	CLA	CHB-C1B	3.28	1.46	1.39
23	C	1037	CLA	CHB-C1B	3.28	1.46	1.39
23	c	6033	CLA	CHB-C1B	3.28	1.46	1.39
23	d	6005	CLA	CHB-C1B	3.28	1.46	1.39
23	c	6026	CLA	OBD-CAD	3.28	1.28	1.22
23	c	6037	CLA	CHB-C1B	3.27	1.46	1.39
23	b	6015	CLA	OBD-CAD	3.27	1.28	1.22
23	C	1027	CLA	CHB-C1B	3.27	1.46	1.39
23	b	6015	CLA	C1B-NB	-3.27	1.33	1.37
23	b	6023	CLA	CHB-C1B	3.27	1.46	1.39
23	b	6015	CLA	CHC-C4B	3.27	1.46	1.39
23	A	1003	CLA	CHB-C1B	3.27	1.46	1.39
23	c	6032	CLA	CHB-C1B	3.26	1.46	1.39
24	A	1038	PHO	C3B-C4B	-3.26	1.38	1.41
23	a	6003	CLA	CHB-C1B	3.25	1.46	1.39
23	B	1009	CLA	CHC-C4B	3.24	1.46	1.39
31	E	1040	HEM	FE-NA	3.24	2.05	1.95
31	e	6040	HEM	FE-NA	3.24	2.05	1.95
31	e	6040	HEM	FE-NC	3.24	2.05	1.95
24	d	6038	PHO	C3B-C4B	-3.23	1.38	1.41
31	v	6041	HEM	FE-NC	3.23	2.05	1.95
31	V	1041	HEM	FE-NC	3.23	2.05	1.95
23	b	6009	CLA	CHC-C4B	3.23	1.46	1.39
23	b	6019	CLA	CHD-C4C	3.21	1.46	1.39
31	V	1041	HEM	FE-NA	3.21	2.05	1.95
31	v	6041	HEM	FE-NA	3.21	2.05	1.95
31	E	1040	HEM	FE-NC	3.21	2.05	1.95
23	B	1019	CLA	CHD-C4C	3.21	1.46	1.39
23	c	6029	CLA	CHB-C1B	3.19	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	1022	CLA	CHC-C4B	3.19	1.46	1.39
23	C	1029	CLA	CHB-C1B	3.19	1.46	1.39
23	c	6026	CLA	C1B-NB	-3.18	1.33	1.37
23	b	6022	CLA	CHC-C4B	3.18	1.46	1.39
23	C	1026	CLA	C1B-NB	-3.18	1.33	1.37
23	b	6022	CLA	OBD-CAD	3.17	1.27	1.22
23	B	1022	CLA	OBD-CAD	3.17	1.27	1.22
24	a	6039	PHO	O2D-CGD	-3.16	1.25	1.33
24	A	1039	PHO	O2D-CGD	-3.16	1.25	1.33
23	B	1022	CLA	CHB-C1B	3.15	1.46	1.39
26	b	6048	BCR	C24-C25	-3.15	1.34	1.45
23	b	6017	CLA	C1D-C2D	3.14	1.51	1.45
23	c	6028	CLA	C1D-C2D	3.14	1.51	1.45
23	c	6031	CLA	C1D-C2D	3.14	1.51	1.45
23	B	1015	CLA	C4B-NB	-3.13	1.33	1.37
23	B	1023	CLA	C1D-C2D	3.13	1.51	1.45
23	c	6034	CLA	CHB-C1B	3.13	1.46	1.39
26	B	1048	BCR	C24-C25	-3.13	1.34	1.45
23	c	6036	CLA	C1D-C2D	3.13	1.51	1.45
23	b	6015	CLA	C4B-NB	-3.13	1.33	1.37
23	C	1036	CLA	C1D-C2D	3.13	1.51	1.45
23	a	6003	CLA	C1D-C2D	3.12	1.51	1.45
23	d	6005	CLA	C1D-C2D	3.12	1.51	1.45
23	b	6022	CLA	CHB-C1B	3.12	1.46	1.39
23	H	1017	CLA	C1D-C2D	3.12	1.51	1.45
23	b	6023	CLA	C1D-C2D	3.12	1.51	1.45
26	h	6049	BCR	C24-C25	-3.12	1.34	1.45
26	K	1052	BCR	C24-C25	-3.12	1.34	1.45
23	D	1005	CLA	C1D-C2D	3.12	1.51	1.45
26	Z	1053	BCR	C24-C25	-3.12	1.34	1.45
23	C	1034	CLA	O2D-CED	-3.12	1.38	1.45
23	B	1012	CLA	C1D-C2D	3.12	1.51	1.45
26	c	6054	BCR	C24-C25	-3.12	1.34	1.45
23	C	1035	CLA	C1D-C2D	3.12	1.51	1.45
23	b	6018	CLA	C1D-C2D	3.12	1.51	1.45
23	c	6027	CLA	C1D-C2D	3.11	1.51	1.45
23	A	1003	CLA	C1D-C2D	3.11	1.51	1.45
23	C	1031	CLA	C1D-C2D	3.11	1.51	1.45
26	H	1049	BCR	C24-C25	-3.11	1.34	1.45
23	b	6016	CLA	C1D-C2D	3.11	1.51	1.45
26	z	6053	BCR	C24-C25	-3.11	1.34	1.45
23	C	1028	CLA	C1D-C2D	3.11	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	C	1033	CLA	C1D-C2D	3.10	1.51	1.45
23	C	1025	CLA	C1D-C2D	3.10	1.51	1.45
26	k	6052	BCR	C24-C25	-3.10	1.34	1.45
23	C	1029	CLA	C3D-C2D	3.10	1.47	1.39
23	c	6025	CLA	C1D-C2D	3.10	1.51	1.45
23	B	1020	CLA	C1D-C2D	3.10	1.51	1.45
23	b	6019	CLA	C4B-NB	-3.10	1.33	1.37
23	c	6033	CLA	C1D-C2D	3.10	1.51	1.45
23	B	1018	CLA	C1D-C2D	3.10	1.51	1.45
23	b	6012	CLA	C1D-C2D	3.10	1.51	1.45
26	C	1054	BCR	C24-C25	-3.09	1.34	1.45
23	b	6017	CLA	C3D-C2D	3.09	1.47	1.39
23	D	1004	CLA	C1D-C2D	3.09	1.51	1.45
23	b	6010	CLA	C4B-NB	-3.09	1.33	1.37
23	A	1006	CLA	C1D-C2D	3.09	1.51	1.45
23	B	1019	CLA	C4B-NB	-3.09	1.33	1.37
23	c	6029	CLA	CHC-C4B	3.09	1.46	1.39
23	C	1027	CLA	C1D-C2D	3.09	1.51	1.45
23	C	1029	CLA	CHC-C4B	3.09	1.46	1.39
23	B	1016	CLA	C1D-C2D	3.09	1.51	1.45
23	c	6035	CLA	C1D-C2D	3.08	1.51	1.45
23	a	6006	CLA	C1D-C2D	3.08	1.51	1.45
23	B	1013	CLA	C1D-C2D	3.08	1.51	1.45
23	C	1037	CLA	C1D-C2D	3.08	1.51	1.45
23	d	6004	CLA	C1D-C2D	3.08	1.51	1.45
26	B	1047	BCR	C24-C25	-3.08	1.34	1.45
23	c	6031	CLA	C3D-C2D	3.08	1.47	1.39
23	c	6037	CLA	C3D-C2D	3.08	1.47	1.39
26	b	6047	BCR	C24-C25	-3.08	1.34	1.45
23	c	6033	CLA	C3D-C2D	3.08	1.47	1.39
23	b	6020	CLA	C1D-C2D	3.08	1.51	1.45
25	a	6043	PQ9	C11-C12	3.08	1.55	1.50
24	a	6039	PHO	C3B-C4B	-3.07	1.38	1.41
23	B	1010	CLA	C4B-NB	-3.07	1.33	1.37
23	A	1003	CLA	C3D-C2D	3.07	1.47	1.39
23	D	1008	CLA	C1D-C2D	3.07	1.51	1.45
23	b	6013	CLA	C1D-C2D	3.07	1.51	1.45
23	C	1031	CLA	C3D-C2D	3.07	1.47	1.39
23	d	6008	CLA	C1D-C2D	3.07	1.51	1.45
23	b	6012	CLA	C3D-C2D	3.07	1.47	1.39
23	b	6010	CLA	C1D-ND	-3.07	1.33	1.37
23	c	6030	CLA	C1D-C2D	3.07	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	6037	CLA	C1D-C2D	3.07	1.51	1.45
23	c	6029	CLA	C3D-C2D	3.06	1.47	1.39
23	C	1030	CLA	C1D-C2D	3.06	1.51	1.45
23	b	6023	CLA	C3D-C2D	3.06	1.47	1.39
23	B	1016	CLA	C3D-C2D	3.06	1.47	1.39
23	b	6016	CLA	C3D-C2D	3.06	1.47	1.39
23	d	6008	CLA	C3D-C2D	3.06	1.47	1.39
23	C	1037	CLA	C3D-C2D	3.06	1.47	1.39
23	B	1021	CLA	C1D-C2D	3.06	1.51	1.45
23	C	1034	CLA	C3D-C2D	3.06	1.47	1.39
23	B	1020	CLA	C3D-C2D	3.06	1.47	1.39
23	d	6004	CLA	C3D-C2D	3.06	1.47	1.39
23	a	6006	CLA	C3D-C2D	3.06	1.47	1.39
23	H	1017	CLA	C3D-C2D	3.06	1.47	1.39
23	b	6018	CLA	C3D-C2D	3.05	1.47	1.39
23	B	1019	CLA	C3D-C2D	3.05	1.47	1.39
23	C	1033	CLA	C3D-C2D	3.05	1.47	1.39
23	A	1006	CLA	C3D-C2D	3.05	1.47	1.39
23	B	1011	CLA	C3D-C2D	3.05	1.47	1.39
23	c	6032	CLA	C3D-C2D	3.05	1.47	1.39
23	B	1011	CLA	C1D-C2D	3.05	1.51	1.45
23	c	6030	CLA	C3D-C2D	3.05	1.47	1.39
23	C	1028	CLA	C3D-C2D	3.05	1.47	1.39
23	b	6020	CLA	C3D-C2D	3.05	1.47	1.39
23	a	6003	CLA	C3D-C2D	3.05	1.47	1.39
23	C	1030	CLA	C3D-C2D	3.05	1.47	1.39
23	A	1007	CLA	CHB-C1B	3.05	1.46	1.39
23	B	1018	CLA	C3D-C2D	3.05	1.47	1.39
25	D	1042	PQ9	C40-C38	3.04	1.57	1.51
23	B	1023	CLA	C3D-C2D	3.04	1.47	1.39
23	D	1005	CLA	C3D-C2D	3.04	1.47	1.39
23	C	1034	CLA	C1D-C2D	3.04	1.51	1.45
23	b	6024	CLA	CHC-C4B	3.04	1.46	1.39
23	C	1032	CLA	C1D-C2D	3.04	1.51	1.45
23	B	1021	CLA	C3D-C2D	3.04	1.47	1.39
23	B	1024	CLA	CHC-C4B	3.04	1.46	1.39
23	C	1036	CLA	C3D-C2D	3.04	1.47	1.39
23	B	1010	CLA	C1D-ND	-3.04	1.33	1.37
26	b	6047	BCR	C1-C6	-3.04	1.49	1.53
23	C	1026	CLA	CHB-C1B	3.04	1.46	1.39
23	b	6021	CLA	C3D-C2D	3.04	1.47	1.39
23	B	1012	CLA	C3D-C2D	3.04	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	B	1047	BCR	C1-C6	-3.04	1.49	1.53
23	D	1008	CLA	C3D-C2D	3.04	1.47	1.39
23	C	1032	CLA	C3D-C2D	3.03	1.47	1.39
23	c	6029	CLA	C1B-NB	-3.03	1.33	1.37
23	D	1004	CLA	C3D-C2D	3.03	1.47	1.39
23	d	6005	CLA	C3D-C2D	3.03	1.47	1.39
23	c	6026	CLA	CHB-C1B	3.03	1.46	1.39
23	b	6010	CLA	OBD-CAD	3.03	1.27	1.22
23	C	1035	CLA	C3D-C2D	3.03	1.47	1.39
23	c	6028	CLA	C3D-C2D	3.03	1.47	1.39
23	c	6036	CLA	C3D-C2D	3.03	1.47	1.39
23	b	6021	CLA	C1D-C2D	3.03	1.51	1.45
23	C	1025	CLA	C3D-C2D	3.03	1.47	1.39
23	c	6025	CLA	C3D-C2D	3.03	1.47	1.39
23	c	6035	CLA	C3D-C2D	3.02	1.47	1.39
23	b	6011	CLA	C1D-C2D	3.02	1.51	1.45
23	b	6011	CLA	C3D-C2D	3.02	1.47	1.39
23	B	1009	CLA	C3D-C2D	3.02	1.47	1.39
23	c	6027	CLA	C3D-C2D	3.02	1.47	1.39
23	C	1027	CLA	C3D-C2D	3.02	1.47	1.39
23	B	1013	CLA	C3D-C2D	3.02	1.47	1.39
23	b	6019	CLA	C3D-C2D	3.02	1.47	1.39
23	a	6007	CLA	CHB-C1B	3.02	1.46	1.39
23	b	6009	CLA	C3D-C2D	3.01	1.47	1.39
23	B	1010	CLA	OBD-CAD	3.01	1.27	1.22
23	C	1029	CLA	C1B-NB	-3.00	1.33	1.37
23	c	6032	CLA	C1D-C2D	3.00	1.51	1.45
24	A	1039	PHO	C3B-C4B	-3.00	1.38	1.41
23	b	6013	CLA	C3D-C2D	2.99	1.47	1.39
25	A	1043	PQ9	C3-C4	2.98	1.53	1.44
23	b	6010	CLA	C1B-NB	-2.98	1.33	1.37
23	b	6010	CLA	MG-NA	-2.98	1.99	2.06
23	B	1010	CLA	MG-NA	-2.97	1.99	2.06
23	B	1010	CLA	C1B-NB	-2.97	1.34	1.37
23	c	6029	CLA	OBD-CAD	2.97	1.27	1.22
23	b	6024	CLA	CHB-C1B	2.97	1.46	1.39
23	C	1026	CLA	C4B-NB	-2.97	1.34	1.37
23	B	1010	CLA	CHB-C1B	2.97	1.46	1.39
23	c	6026	CLA	C3D-C2D	2.97	1.47	1.39
23	b	6010	CLA	CHB-C1B	2.96	1.46	1.39
23	C	1029	CLA	C1D-ND	-2.95	1.34	1.37
23	c	6029	CLA	C1D-ND	-2.95	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	6014	CLA	C1B-NB	-2.95	1.34	1.37
23	B	1014	CLA	C1B-NB	-2.95	1.34	1.37
23	C	1026	CLA	C3D-C2D	2.95	1.47	1.39
23	b	6024	CLA	C4B-NB	-2.95	1.34	1.37
23	B	1024	CLA	CHB-C1B	2.95	1.46	1.39
23	c	6026	CLA	C4B-NB	-2.95	1.34	1.37
23	b	6010	CLA	C1D-C2D	2.94	1.51	1.45
23	C	1029	CLA	OBD-CAD	2.94	1.27	1.22
23	C	1029	CLA	C4B-NB	-2.94	1.34	1.37
23	B	1024	CLA	C4B-NB	-2.93	1.34	1.37
25	d	6042	PQ9	C40-C38	2.93	1.57	1.51
23	B	1010	CLA	C1D-C2D	2.92	1.51	1.45
26	T	6046	BCR	C24-C25	-2.91	1.35	1.45
26	t	1046	BCR	C24-C25	-2.91	1.35	1.45
23	c	6029	CLA	C4B-NB	-2.91	1.34	1.37
23	A	1007	CLA	C4B-NB	-2.91	1.34	1.37
23	b	6022	CLA	C4B-NB	-2.90	1.34	1.37
23	B	1022	CLA	C4B-NB	-2.89	1.34	1.37
23	b	6009	CLA	C1D-C2D	2.89	1.51	1.45
23	b	6019	CLA	CHC-C4B	2.89	1.45	1.39
25	a	6043	PQ9	C3-C4	2.88	1.52	1.44
23	B	1014	CLA	C4B-NB	-2.87	1.34	1.37
23	B	1019	CLA	CHC-C4B	2.87	1.45	1.39
23	B	1014	CLA	OBD-CAD	2.86	1.27	1.22
23	a	6007	CLA	C4B-NB	-2.86	1.34	1.37
23	B	1022	CLA	C1D-ND	-2.85	1.34	1.37
26	K	1051	BCR	C24-C25	-2.85	1.35	1.45
23	b	6014	CLA	C4B-NB	-2.85	1.34	1.37
23	a	6007	CLA	C1D-ND	-2.85	1.34	1.37
23	b	6022	CLA	C1D-ND	-2.85	1.34	1.37
26	C	1054	BCR	C30-C25	-2.84	1.50	1.53
23	B	1009	CLA	C1D-C2D	2.84	1.51	1.45
26	k	6051	BCR	C24-C25	-2.84	1.35	1.45
23	b	6014	CLA	OBD-CAD	2.83	1.27	1.22
25	A	1043	PQ9	C11-C12	2.83	1.55	1.50
31	e	6040	HEM	CAB-C3B	2.82	1.54	1.47
23	B	1015	CLA	CHB-C1B	2.82	1.45	1.39
23	c	6034	CLA	C3D-C2D	2.82	1.46	1.39
26	c	6054	BCR	C30-C25	-2.82	1.50	1.53
23	A	1007	CLA	C1D-ND	-2.82	1.34	1.37
23	A	1007	CLA	CHC-C4B	2.81	1.45	1.39
25	D	1042	PQ9	C35-C33	2.81	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	E	1040	HEM	CAB-C3B	2.81	1.54	1.47
24	d	6038	PHO	C3A-C2A	-2.81	1.52	1.54
23	b	6015	CLA	CHB-C1B	2.81	1.45	1.39
23	C	1026	CLA	CHC-C4B	2.81	1.45	1.39
26	B	1045	BCR	C24-C25	-2.80	1.35	1.45
23	B	1019	CLA	C1D-ND	-2.80	1.34	1.37
31	V	1041	HEM	CAB-C3B	2.80	1.54	1.47
26	d	6050	BCR	C24-C25	-2.80	1.35	1.45
24	d	6038	PHO	O2A-CGA	-2.80	1.25	1.33
26	D	1050	BCR	C24-C25	-2.79	1.35	1.45
26	b	6045	BCR	C24-C25	-2.79	1.35	1.45
31	V	1041	HEM	CAC-C3C	2.79	1.54	1.47
23	a	6007	CLA	CHC-C4B	2.79	1.45	1.39
23	c	6026	CLA	CHC-C4B	2.79	1.45	1.39
31	E	1040	HEM	CAC-C3C	2.78	1.54	1.47
31	v	6041	HEM	CAC-C3C	2.78	1.54	1.47
23	b	6024	CLA	C1B-NB	-2.78	1.34	1.37
23	B	1010	CLA	CHC-C4B	2.78	1.45	1.39
31	v	6041	HEM	CAB-C3B	2.78	1.54	1.47
23	B	1024	CLA	C1B-NB	-2.77	1.34	1.37
31	e	6040	HEM	CAC-C3C	2.77	1.54	1.47
26	T	6046	BCR	C30-C25	-2.77	1.50	1.53
23	b	6010	CLA	CHC-C4B	2.77	1.45	1.39
24	A	1038	PHO	O2A-CGA	-2.77	1.25	1.33
23	b	6019	CLA	C1D-ND	-2.76	1.34	1.37
24	A	1038	PHO	C3A-C2A	-2.76	1.52	1.54
23	c	6034	CLA	C1D-C2D	2.76	1.50	1.45
23	B	1014	CLA	CHB-C4A	-2.73	1.30	1.37
25	D	1042	PQ9	C3-C4	2.72	1.52	1.44
23	b	6014	CLA	CHB-C4A	-2.72	1.30	1.37
23	b	6023	CLA	C1B-C2B	2.71	1.49	1.43
23	B	1014	CLA	C3D-C2D	2.70	1.46	1.39
25	d	6042	PQ9	C3-C4	2.69	1.52	1.44
23	b	6014	CLA	C3D-C2D	2.69	1.46	1.39
24	A	1039	PHO	O2A-CGA	-2.69	1.25	1.33
24	a	6039	PHO	O2A-CGA	-2.69	1.25	1.33
23	b	6022	CLA	C1D-C2D	2.69	1.50	1.45
23	b	6021	CLA	C1B-C2B	2.68	1.49	1.43
23	B	1013	CLA	C1B-C2B	2.68	1.49	1.43
26	d	6050	BCR	C30-C25	-2.68	1.50	1.53
23	B	1023	CLA	C1B-C2B	2.68	1.49	1.43
23	C	1033	CLA	C1B-C2B	2.68	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	A	1006	CLA	C1B-C2B	2.68	1.49	1.43
23	c	6036	CLA	C1B-C2B	2.67	1.49	1.43
23	B	1021	CLA	C1B-C2B	2.67	1.49	1.43
23	C	1036	CLA	C1B-C2B	2.67	1.49	1.43
23	A	1003	CLA	C1B-C2B	2.67	1.49	1.43
23	b	6013	CLA	C1B-C2B	2.67	1.49	1.43
23	c	6033	CLA	C1B-C2B	2.67	1.49	1.43
23	d	6005	CLA	C1B-C2B	2.67	1.49	1.43
23	D	1004	CLA	C1B-C2B	2.67	1.49	1.43
23	b	6024	CLA	C3D-C2D	2.66	1.46	1.39
23	B	1024	CLA	C3D-C2D	2.66	1.46	1.39
23	B	1022	CLA	C1D-C2D	2.66	1.50	1.45
23	a	6003	CLA	C1B-C2B	2.66	1.49	1.43
23	b	6016	CLA	C1B-C2B	2.66	1.49	1.43
23	c	6031	CLA	C1B-C2B	2.66	1.49	1.43
23	C	1027	CLA	C1B-C2B	2.66	1.49	1.43
23	B	1012	CLA	C1B-C2B	2.65	1.49	1.43
23	b	6017	CLA	C1B-C2B	2.65	1.49	1.43
23	C	1028	CLA	C1B-C2B	2.65	1.49	1.43
23	d	6004	CLA	C1B-C2B	2.65	1.49	1.43
23	c	6027	CLA	C1B-C2B	2.65	1.49	1.43
23	b	6015	CLA	MG-NA	-2.65	2.00	2.06
23	D	1005	CLA	C1B-C2B	2.65	1.49	1.43
23	a	6006	CLA	C1B-C2B	2.65	1.49	1.43
23	B	1016	CLA	C1B-C2B	2.65	1.49	1.43
23	B	1011	CLA	C1B-C2B	2.64	1.49	1.43
23	B	1020	CLA	C1B-C2B	2.64	1.49	1.43
23	B	1018	CLA	C1B-C2B	2.64	1.49	1.43
23	C	1031	CLA	C1B-C2B	2.64	1.49	1.43
23	c	6032	CLA	C1B-C2B	2.64	1.49	1.43
23	D	1008	CLA	C1B-C2B	2.64	1.49	1.43
23	H	1017	CLA	C1B-C2B	2.63	1.49	1.43
23	d	6008	CLA	C1B-C2B	2.63	1.49	1.43
23	c	6025	CLA	C1B-C2B	2.63	1.49	1.43
23	C	1032	CLA	C1B-C2B	2.63	1.49	1.43
23	c	6037	CLA	C1B-C2B	2.63	1.49	1.43
23	C	1035	CLA	C1B-C2B	2.63	1.49	1.43
23	b	6012	CLA	C1B-C2B	2.63	1.49	1.43
23	B	1015	CLA	MG-NA	-2.63	2.00	2.06
23	C	1037	CLA	C1B-C2B	2.63	1.49	1.43
23	b	6020	CLA	C1B-C2B	2.62	1.49	1.43
23	C	1025	CLA	C1B-C2B	2.62	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	6018	CLA	C1B-C2B	2.62	1.49	1.43
23	B	1009	CLA	C1B-C2B	2.62	1.49	1.43
23	C	1034	CLA	C1B-C2B	2.62	1.49	1.43
23	b	6014	CLA	C1D-C2D	2.61	1.50	1.45
23	c	6028	CLA	C1B-C2B	2.61	1.49	1.43
26	D	1050	BCR	C30-C25	-2.61	1.50	1.53
23	B	1014	CLA	C1D-C2D	2.61	1.50	1.45
23	b	6011	CLA	C1B-C2B	2.61	1.49	1.43
23	c	6030	CLA	C1B-C2B	2.61	1.49	1.43
23	b	6009	CLA	C1B-C2B	2.60	1.49	1.43
23	C	1030	CLA	C1B-C2B	2.60	1.49	1.43
23	B	1015	CLA	C1D-C2D	2.60	1.50	1.45
23	c	6035	CLA	C1B-C2B	2.59	1.49	1.43
26	b	6048	BCR	C1-C6	-2.59	1.50	1.53
23	b	6019	CLA	MG-NA	-2.59	2.00	2.06
23	b	6015	CLA	C1D-C2D	2.58	1.50	1.45
23	B	1019	CLA	C1B-C2B	2.58	1.49	1.43
26	t	1046	BCR	C30-C25	-2.57	1.50	1.53
23	b	6019	CLA	C1B-C2B	2.57	1.49	1.43
26	T	6046	BCR	C1-C6	-2.57	1.50	1.53
23	B	1019	CLA	MG-NA	-2.56	2.00	2.06
26	A	1044	BCR	C24-C25	-2.56	1.36	1.45
26	B	1048	BCR	C1-C6	-2.55	1.50	1.53
23	B	1022	CLA	C1B-NB	-2.55	1.34	1.37
26	a	6044	BCR	C24-C25	-2.55	1.36	1.45
23	b	6022	CLA	C1B-NB	-2.54	1.34	1.37
23	B	1022	CLA	C3D-C2D	2.54	1.45	1.39
23	A	1007	CLA	MG-NA	-2.54	2.00	2.06
25	A	1043	PQ9	C36-C37	-2.54	1.42	1.50
23	B	1014	CLA	C1D-ND	-2.53	1.34	1.37
23	b	6022	CLA	C3D-C2D	2.52	1.45	1.39
23	B	1015	CLA	C3D-C2D	2.52	1.45	1.39
26	k	6051	BCR	C30-C25	-2.52	1.50	1.53
23	B	1019	CLA	C1B-NB	-2.51	1.34	1.37
23	b	6014	CLA	C1D-ND	-2.51	1.34	1.37
23	a	6007	CLA	MG-NA	-2.51	2.00	2.06
23	c	6034	CLA	C1B-C2B	2.51	1.49	1.43
23	B	1009	CLA	C4C-C3C	2.51	1.49	1.45
23	b	6009	CLA	C4C-C3C	2.51	1.49	1.45
26	K	1051	BCR	C30-C25	-2.50	1.50	1.53
23	b	6015	CLA	C3D-C2D	2.50	1.45	1.39
23	A	1007	CLA	C3D-C2D	2.50	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	1019	CLA	C1C-NC	-2.49	1.34	1.37
23	B	1024	CLA	C1D-ND	-2.49	1.34	1.37
25	a	6043	PQ9	C29-C28	-2.49	1.44	1.50
23	a	6007	CLA	C3D-C2D	2.49	1.45	1.39
23	b	6019	CLA	C1C-NC	-2.49	1.34	1.37
25	a	6043	PQ9	C20-C18	2.47	1.56	1.51
23	b	6019	CLA	C1B-NB	-2.47	1.34	1.37
23	c	6026	CLA	C1D-ND	-2.46	1.34	1.37
23	c	6029	CLA	C1D-C2D	2.45	1.50	1.45
26	a	6044	BCR	C30-C25	-2.44	1.50	1.53
23	b	6024	CLA	C1D-ND	-2.44	1.34	1.37
23	C	1029	CLA	C1D-C2D	2.44	1.50	1.45
23	C	1026	CLA	C1D-ND	-2.43	1.34	1.37
26	b	6048	BCR	C8-C7	-2.43	1.25	1.33
26	B	1048	BCR	C8-C7	-2.43	1.25	1.33
23	a	6007	CLA	C1D-C2D	2.42	1.50	1.45
26	b	6045	BCR	C8-C7	-2.42	1.25	1.33
23	B	1014	CLA	C1C-C2C	2.42	1.49	1.44
26	Z	1053	BCR	C8-C7	-2.42	1.25	1.33
26	b	6047	BCR	C8-C7	-2.42	1.25	1.33
26	B	1047	BCR	C8-C7	-2.42	1.25	1.33
26	B	1045	BCR	C8-C7	-2.41	1.25	1.33
23	A	1007	CLA	OBD-CAD	2.41	1.26	1.22
26	H	1049	BCR	C8-C7	-2.41	1.25	1.33
26	z	6053	BCR	C8-C7	-2.41	1.25	1.33
23	b	6014	CLA	C1C-C2C	2.41	1.49	1.44
23	b	6010	CLA	C1C-NC	-2.41	1.34	1.37
23	B	1010	CLA	C1C-NC	-2.41	1.34	1.37
23	b	6024	CLA	C1D-C2D	2.40	1.50	1.45
23	a	6003	CLA	C4C-C3C	2.40	1.49	1.45
26	K	1052	BCR	C8-C7	-2.40	1.25	1.33
23	A	1007	CLA	C1D-C2D	2.40	1.50	1.45
23	B	1022	CLA	MG-NA	-2.40	2.00	2.06
23	b	6022	CLA	MG-NA	-2.40	2.00	2.06
26	t	1046	BCR	C8-C7	-2.40	1.26	1.33
23	B	1024	CLA	C1D-C2D	2.39	1.50	1.45
26	h	6049	BCR	C8-C7	-2.39	1.26	1.33
23	c	6029	CLA	MG-NA	-2.39	2.00	2.06
23	b	6017	CLA	C4C-C3C	2.39	1.49	1.45
26	A	1044	BCR	C30-C25	-2.39	1.50	1.53
23	b	6014	CLA	MG-NA	-2.38	2.00	2.06
23	a	6007	CLA	OBD-CAD	2.38	1.26	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	c	6027	CLA	C4C-C3C	2.38	1.49	1.45
26	k	6052	BCR	C8-C7	-2.38	1.26	1.33
23	B	1015	CLA	CHB-C4A	-2.37	1.31	1.37
23	C	1029	CLA	MG-NA	-2.37	2.00	2.06
23	C	1026	CLA	C1D-C2D	2.37	1.50	1.45
26	T	6046	BCR	C8-C7	-2.37	1.26	1.33
23	C	1027	CLA	C4C-C3C	2.37	1.49	1.45
23	B	1014	CLA	MG-NA	-2.36	2.00	2.06
23	B	1024	CLA	C1B-C2B	2.36	1.48	1.43
23	b	6016	CLA	C4C-C3C	2.36	1.49	1.45
23	d	6005	CLA	C4C-C3C	2.36	1.49	1.45
23	C	1037	CLA	C4C-C3C	2.36	1.49	1.45
26	B	1048	BCR	C30-C25	-2.35	1.50	1.53
23	B	1021	CLA	C4C-C3C	2.35	1.49	1.45
23	a	6006	CLA	C4C-C3C	2.35	1.49	1.45
23	c	6026	CLA	MG-NA	-2.35	2.00	2.06
23	B	1012	CLA	C4C-C3C	2.35	1.49	1.45
23	H	1017	CLA	C4C-C3C	2.35	1.49	1.45
23	b	6024	CLA	C1B-C2B	2.35	1.48	1.43
23	c	6025	CLA	C4C-C3C	2.35	1.49	1.45
23	A	1003	CLA	C4C-C3C	2.35	1.49	1.45
26	C	1054	BCR	C1-C6	-2.35	1.50	1.53
26	C	1054	BCR	C8-C7	-2.35	1.26	1.33
23	c	6030	CLA	C4C-C3C	2.35	1.49	1.45
23	B	1016	CLA	C4C-C3C	2.34	1.49	1.45
25	a	6043	PQ9	C40-C38	2.34	1.56	1.51
23	b	6015	CLA	CHB-C4A	-2.34	1.31	1.37
23	c	6026	CLA	C1D-C2D	2.34	1.50	1.45
23	B	1011	CLA	C4C-C3C	2.34	1.49	1.45
23	D	1005	CLA	C4C-C3C	2.34	1.49	1.45
23	C	1030	CLA	C4C-C3C	2.34	1.49	1.45
23	c	6037	CLA	C4C-C3C	2.34	1.49	1.45
23	A	1006	CLA	C4C-C3C	2.34	1.49	1.45
23	C	1025	CLA	C4C-C3C	2.34	1.49	1.45
23	c	6032	CLA	C4C-C3C	2.34	1.49	1.45
23	C	1028	CLA	C4C-C3C	2.33	1.49	1.45
23	C	1034	CLA	C4C-C3C	2.33	1.49	1.45
23	b	6013	CLA	C4C-C3C	2.33	1.49	1.45
23	c	6034	CLA	MG-NA	-2.33	2.00	2.06
23	C	1036	CLA	C4C-C3C	2.33	1.49	1.45
23	C	1035	CLA	C4C-C3C	2.33	1.49	1.45
23	C	1026	CLA	MG-NA	-2.33	2.00	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	6010	CLA	C3D-C2D	2.33	1.45	1.39
25	a	6043	PQ9	C36-C37	-2.33	1.43	1.50
23	B	1013	CLA	C4C-C3C	2.33	1.49	1.45
23	b	6011	CLA	C4C-C3C	2.32	1.49	1.45
26	c	6054	BCR	C8-C7	-2.32	1.26	1.33
23	b	6012	CLA	C4C-C3C	2.32	1.49	1.45
23	b	6009	CLA	C4B-NB	-2.32	1.34	1.37
25	d	6042	PQ9	C29-C28	-2.32	1.45	1.50
23	B	1010	CLA	C3D-C2D	2.32	1.45	1.39
23	b	6021	CLA	C4C-C3C	2.32	1.49	1.45
23	B	1020	CLA	C4C-C3C	2.32	1.49	1.45
25	a	6043	PQ9	C35-C33	2.32	1.56	1.51
23	c	6035	CLA	C4C-C3C	2.31	1.49	1.45
23	B	1018	CLA	C4C-C3C	2.31	1.49	1.45
23	b	6020	CLA	C4C-C3C	2.31	1.49	1.45
23	c	6028	CLA	C4C-C3C	2.31	1.49	1.45
26	b	6048	BCR	C30-C25	-2.31	1.50	1.53
23	C	1032	CLA	C4C-C3C	2.31	1.49	1.45
23	d	6004	CLA	C4C-C3C	2.31	1.49	1.45
23	b	6015	CLA	C2A-C1A	-2.31	1.47	1.52
23	D	1004	CLA	C4C-C3C	2.31	1.49	1.45
23	B	1009	CLA	C4B-NB	-2.31	1.34	1.37
23	b	6023	CLA	C4C-C3C	2.31	1.49	1.45
23	b	6018	CLA	C4C-C3C	2.30	1.48	1.45
23	D	1008	CLA	C4C-C3C	2.30	1.48	1.45
23	B	1023	CLA	C4C-C3C	2.30	1.48	1.45
23	C	1031	CLA	C4C-C3C	2.30	1.48	1.45
23	B	1015	CLA	C2A-C1A	-2.30	1.47	1.52
23	c	6036	CLA	C4C-C3C	2.29	1.48	1.45
26	c	6054	BCR	C1-C6	-2.29	1.50	1.53
26	k	6051	BCR	C8-C7	-2.29	1.26	1.33
23	C	1033	CLA	C4C-C3C	2.29	1.48	1.45
23	c	6033	CLA	C4C-C3C	2.28	1.48	1.45
23	d	6008	CLA	C4C-C3C	2.28	1.48	1.45
23	c	6031	CLA	C4C-C3C	2.27	1.48	1.45
26	K	1051	BCR	C8-C7	-2.27	1.26	1.33
23	B	1024	CLA	CHB-C4A	-2.26	1.32	1.37
23	b	6024	CLA	CHB-C4A	-2.26	1.32	1.37
24	A	1038	PHO	C4D-ND	-2.26	1.35	1.38
24	d	6038	PHO	C4D-ND	-2.25	1.35	1.38
24	a	6039	PHO	C3A-C2A	-2.25	1.52	1.54
23	A	1007	CLA	CHB-C4A	-2.22	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	a	6043	PQ9	C5-C4	2.21	1.52	1.48
25	D	1042	PQ9	C11-C12	2.21	1.54	1.50
24	a	6039	PHO	C4D-ND	-2.20	1.35	1.38
23	a	6007	CLA	CHB-C4A	-2.20	1.32	1.37
23	b	6024	CLA	MG-NA	-2.19	2.01	2.06
23	B	1014	CLA	CHB-C1B	2.19	1.44	1.39
23	c	6025	CLA	C1C-C2C	2.19	1.49	1.44
23	B	1024	CLA	MG-NA	-2.19	2.01	2.06
23	B	1019	CLA	C1D-C2D	2.18	1.49	1.45
23	b	6010	CLA	CHB-C4A	-2.18	1.32	1.37
23	B	1010	CLA	CHB-C4A	-2.18	1.32	1.37
24	A	1039	PHO	C4D-ND	-2.18	1.35	1.38
23	b	6019	CLA	C1D-C2D	2.18	1.49	1.45
23	C	1025	CLA	C1C-C2C	2.18	1.48	1.44
23	c	6033	CLA	C1C-C2C	2.17	1.48	1.44
23	C	1033	CLA	C1C-C2C	2.17	1.48	1.44
23	b	6013	CLA	C1C-C2C	2.17	1.48	1.44
23	b	6014	CLA	CHB-C1B	2.17	1.44	1.39
23	C	1032	CLA	C1C-C2C	2.17	1.48	1.44
24	A	1039	PHO	C3A-C2A	-2.17	1.52	1.54
23	a	6003	CLA	C1C-C2C	2.17	1.48	1.44
23	A	1003	CLA	C1C-C2C	2.17	1.48	1.44
26	A	1044	BCR	C8-C7	-2.17	1.26	1.33
26	K	1052	BCR	C30-C25	-2.16	1.51	1.53
23	B	1013	CLA	C1C-C2C	2.16	1.48	1.44
23	d	6008	CLA	C1C-C2C	2.16	1.48	1.44
23	B	1012	CLA	C1C-C2C	2.16	1.48	1.44
23	b	6020	CLA	C1C-C2C	2.16	1.48	1.44
23	c	6036	CLA	C1C-C2C	2.16	1.48	1.44
23	C	1036	CLA	C1C-C2C	2.16	1.48	1.44
23	a	6006	CLA	C1C-C2C	2.16	1.48	1.44
23	d	6005	CLA	C1C-C2C	2.16	1.48	1.44
25	D	1042	PQ9	C15-C13	-2.16	1.46	1.51
26	H	1049	BCR	C30-C25	-2.16	1.51	1.53
23	C	1028	CLA	C1C-C2C	2.16	1.48	1.44
23	D	1008	CLA	C1C-C2C	2.16	1.48	1.44
23	b	6023	CLA	C1C-C2C	2.16	1.48	1.44
26	d	6050	BCR	C8-C7	-2.16	1.26	1.33
23	c	6035	CLA	C1C-C2C	2.16	1.48	1.44
23	b	6021	CLA	C1C-C2C	2.15	1.48	1.44
26	k	6052	BCR	C30-C25	-2.15	1.51	1.53
23	C	1029	CLA	C1B-C2B	2.15	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	D	1050	BCR	C8-C7	-2.15	1.26	1.33
23	C	1027	CLA	C1C-C2C	2.15	1.48	1.44
26	b	6045	BCR	C1-C6	-2.15	1.51	1.53
23	c	6027	CLA	C1C-C2C	2.15	1.48	1.44
23	D	1005	CLA	C1C-C2C	2.15	1.48	1.44
23	b	6014	CLA	CBD-CGD	-2.15	1.45	1.52
23	B	1020	CLA	C1C-C2C	2.15	1.48	1.44
23	B	1021	CLA	C1C-C2C	2.15	1.48	1.44
26	a	6044	BCR	C8-C7	-2.15	1.26	1.33
23	C	1031	CLA	C1C-C2C	2.14	1.48	1.44
23	c	6034	CLA	C1B-NB	-2.14	1.35	1.37
23	c	6028	CLA	C1C-C2C	2.14	1.48	1.44
23	B	1014	CLA	CBD-CGD	-2.14	1.46	1.52
23	b	6012	CLA	C1C-C2C	2.14	1.48	1.44
23	c	6030	CLA	C1C-C2C	2.14	1.48	1.44
23	c	6037	CLA	C1C-C2C	2.14	1.48	1.44
26	h	6049	BCR	C1-C6	-2.14	1.51	1.53
23	B	1023	CLA	C1C-C2C	2.14	1.48	1.44
23	B	1016	CLA	C1C-C2C	2.14	1.48	1.44
23	b	6016	CLA	C1C-C2C	2.13	1.48	1.44
23	C	1035	CLA	C1C-C2C	2.13	1.48	1.44
26	B	1045	BCR	C1-C6	-2.13	1.51	1.53
23	C	1037	CLA	C1C-C2C	2.13	1.48	1.44
23	d	6004	CLA	C1C-C2C	2.13	1.48	1.44
23	b	6010	CLA	C1B-C2B	2.13	1.48	1.43
23	c	6032	CLA	C1C-C2C	2.13	1.48	1.44
26	t	1046	BCR	C1-C6	-2.13	1.51	1.53
23	b	6018	CLA	C1C-C2C	2.13	1.48	1.44
26	z	6053	BCR	C1-C6	-2.13	1.51	1.53
23	C	1034	CLA	C1C-C2C	2.12	1.48	1.44
23	c	6034	CLA	C4B-NB	-2.12	1.35	1.37
23	c	6029	CLA	C1B-C2B	2.12	1.48	1.43
23	B	1018	CLA	C1C-C2C	2.12	1.48	1.44
23	D	1004	CLA	C1C-C2C	2.12	1.48	1.44
23	B	1010	CLA	C1B-C2B	2.12	1.48	1.43
23	b	6017	CLA	C1C-C2C	2.12	1.48	1.44
23	A	1006	CLA	C1C-C2C	2.12	1.48	1.44
23	c	6031	CLA	C1C-C2C	2.12	1.48	1.44
23	C	1030	CLA	C1C-C2C	2.12	1.48	1.44
26	K	1052	BCR	C1-C6	-2.12	1.51	1.53
23	B	1011	CLA	C1C-C2C	2.12	1.48	1.44
23	H	1017	CLA	C1C-C2C	2.12	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	B	1024	CLA	C4C-C3C	2.11	1.48	1.45
23	c	6029	CLA	CHB-C4A	-2.10	1.32	1.37
23	b	6011	CLA	C1C-C2C	2.10	1.48	1.44
26	Z	1053	BCR	C1-C6	-2.10	1.51	1.53
26	H	1049	BCR	C1-C6	-2.09	1.51	1.53
26	h	6049	BCR	C30-C25	-2.09	1.51	1.53
23	C	1029	CLA	CHB-C4A	-2.09	1.32	1.37
23	B	1009	CLA	MG-NA	-2.09	2.01	2.06
23	b	6009	CLA	MG-NA	-2.08	2.01	2.06
26	B	1045	BCR	C30-C25	-2.08	1.51	1.53
23	C	1026	CLA	CHB-C4A	-2.08	1.32	1.37
23	b	6022	CLA	C1B-C2B	2.08	1.48	1.43
26	k	6052	BCR	C1-C6	-2.08	1.51	1.53
23	b	6024	CLA	C4C-C3C	2.08	1.48	1.45
23	B	1022	CLA	C1B-C2B	2.07	1.48	1.43
26	b	6045	BCR	C30-C25	-2.07	1.51	1.53
23	c	6028	CLA	MG-NA	-2.07	2.01	2.06
24	d	6038	PHO	CBD-CGD	-2.07	1.49	1.52
23	c	6026	CLA	CHB-C4A	-2.06	1.32	1.37
23	c	6036	CLA	MG-NA	-2.06	2.01	2.06
23	c	6037	CLA	MG-NA	-2.06	2.01	2.06
23	b	6013	CLA	MG-NA	-2.06	2.01	2.06
23	B	1009	CLA	C1C-C2C	2.05	1.48	1.44
23	b	6009	CLA	C1C-C2C	2.04	1.48	1.44
23	A	1007	CLA	C1C-NC	-2.04	1.34	1.37
25	A	1043	PQ9	C40-C38	2.04	1.55	1.51
23	C	1036	CLA	MG-NA	-2.04	2.01	2.06
23	b	6012	CLA	MG-NA	-2.04	2.01	2.06
23	C	1028	CLA	MG-NA	-2.04	2.01	2.06
23	b	6011	CLA	MG-NA	-2.04	2.01	2.06
23	a	6007	CLA	C1C-NC	-2.04	1.34	1.37
23	C	1033	CLA	MG-NA	-2.04	2.01	2.06
23	C	1037	CLA	MG-NA	-2.03	2.01	2.06
23	B	1013	CLA	MG-NA	-2.03	2.01	2.06
23	b	6021	CLA	MG-NA	-2.03	2.01	2.06
23	C	1032	CLA	MG-NA	-2.03	2.01	2.06
23	B	1020	CLA	MG-NA	-2.03	2.01	2.06
23	b	6023	CLA	MG-NA	-2.03	2.01	2.06
23	B	1011	CLA	MG-NA	-2.03	2.01	2.06
23	a	6006	CLA	MG-NA	-2.03	2.01	2.06
23	b	6016	CLA	MG-NA	-2.03	2.01	2.06
23	C	1030	CLA	MG-NA	-2.03	2.01	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	6020	CLA	MG-NA	-2.03	2.01	2.06
31	V	1041	HEM	CMA-C3A	2.03	1.54	1.50
23	B	1016	CLA	MG-NA	-2.03	2.01	2.06
23	B	1021	CLA	MG-NA	-2.02	2.01	2.06
23	b	6009	CLA	C1D-ND	-2.02	1.35	1.37
25	a	6043	PQ9	C26-C27	-2.02	1.44	1.50
23	C	1031	CLA	MG-NA	-2.02	2.01	2.06
31	v	6041	HEM	CMA-C3A	2.02	1.54	1.50
23	c	6035	CLA	MG-NA	-2.02	2.01	2.06
31	e	6040	HEM	CMA-C3A	2.02	1.54	1.50
23	d	6005	CLA	MG-NA	-2.02	2.01	2.06
23	b	6018	CLA	MG-NA	-2.02	2.01	2.06
23	c	6031	CLA	MG-NA	-2.02	2.01	2.06
23	D	1005	CLA	MG-NA	-2.02	2.01	2.06
23	c	6030	CLA	MG-NA	-2.02	2.01	2.06
23	C	1026	CLA	C1B-C2B	2.02	1.47	1.43
23	B	1015	CLA	C1C-NC	-2.02	1.34	1.37
23	C	1034	CLA	MG-NA	-2.02	2.01	2.06
23	c	6032	CLA	MG-NA	-2.02	2.01	2.06
23	A	1006	CLA	MG-NA	-2.01	2.01	2.06
23	B	1018	CLA	MG-NA	-2.01	2.01	2.06
23	c	6033	CLA	MG-NA	-2.01	2.01	2.06
23	B	1023	CLA	MG-NA	-2.01	2.01	2.06
23	A	1003	CLA	MG-NA	-2.01	2.01	2.06
23	c	6026	CLA	C1B-C2B	2.01	1.47	1.43
23	b	6011	CLA	C3B-C4B	2.01	1.48	1.42
23	H	1017	CLA	MG-NA	-2.01	2.01	2.06
23	C	1035	CLA	MG-NA	-2.01	2.01	2.06
23	b	6015	CLA	C1B-C2B	2.00	1.47	1.43
24	A	1038	PHO	CBD-CGD	-2.00	1.50	1.52
23	a	6003	CLA	MG-NA	-2.00	2.01	2.06
23	C	1027	CLA	MG-NA	-2.00	2.01	2.06
23	B	1012	CLA	MG-NA	-2.00	2.01	2.06
23	B	1015	CLA	C1B-C2B	2.00	1.47	1.43
23	C	1025	CLA	MG-NA	-2.00	2.01	2.06
23	D	1008	CLA	MG-NA	-2.00	2.01	2.06

All (2826) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	B	1047	BCR	C7-C8-C9	34.70	177.56	126.23
26	b	6047	BCR	C7-C8-C9	34.65	177.50	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	C	1054	BCR	C7-C8-C9	28.08	167.78	126.23
26	c	6054	BCR	C7-C8-C9	28.06	167.74	126.23
26	T	6046	BCR	C7-C8-C9	27.21	166.48	126.23
26	B	1045	BCR	C15-C16-C17	26.46	177.66	123.52
26	b	6045	BCR	C15-C16-C17	26.44	177.62	123.52
26	H	1049	BCR	C15-C16-C17	25.48	175.65	123.52
26	h	6049	BCR	C15-C16-C17	25.47	175.64	123.52
26	a	6044	BCR	C15-C16-C17	25.11	174.89	123.52
26	A	1044	BCR	C15-C16-C17	25.09	174.86	123.52
26	z	6053	BCR	C15-C16-C17	25.03	174.73	123.52
26	Z	1053	BCR	C15-C16-C17	25.03	174.73	123.52
26	K	1051	BCR	C15-C16-C17	24.83	174.31	123.52
26	k	6051	BCR	C15-C16-C17	24.79	174.25	123.52
26	b	6047	BCR	C15-C16-C17	24.70	174.06	123.52
26	B	1047	BCR	C15-C16-C17	24.70	174.06	123.52
26	C	1054	BCR	C15-C16-C17	24.61	173.88	123.52
26	c	6054	BCR	C15-C16-C17	24.59	173.83	123.52
26	H	1049	BCR	C16-C15-C14	24.56	173.78	123.52
26	h	6049	BCR	C16-C15-C14	24.55	173.75	123.52
26	b	6048	BCR	C15-C16-C17	24.31	173.27	123.52
26	B	1048	BCR	C15-C16-C17	24.30	173.25	123.52
25	d	6042	PQ9	C29-C28-C30	-23.61	74.25	115.23
25	D	1042	PQ9	C29-C28-C30	-23.09	75.15	115.23
26	D	1050	BCR	C15-C16-C17	22.89	170.35	123.52
26	d	6050	BCR	C15-C16-C17	22.88	170.33	123.52
26	T	6046	BCR	C15-C16-C17	22.43	169.41	123.52
26	t	1046	BCR	C7-C8-C9	22.38	159.34	126.23
26	B	1048	BCR	C16-C17-C18	22.11	158.28	127.28
26	b	6048	BCR	C16-C17-C18	22.10	158.27	127.28
26	B	1045	BCR	C7-C8-C9	21.60	158.19	126.23
26	b	6045	BCR	C7-C8-C9	21.60	158.19	126.23
26	K	1052	BCR	C15-C16-C17	21.23	166.95	123.52
25	a	6043	PQ9	C29-C28-C30	-21.02	78.75	115.23
26	t	1046	BCR	C16-C17-C18	20.83	156.49	127.28
25	A	1043	PQ9	C30-C28-C27	20.49	167.18	121.17
26	C	1054	BCR	C20-C21-C22	20.40	155.89	127.28
26	c	6054	BCR	C20-C21-C22	20.38	155.86	127.28
25	A	1043	PQ9	C29-C28-C30	-20.05	80.43	115.23
26	T	6046	BCR	C21-C20-C19	19.60	180.00	123.20
26	T	6046	BCR	C20-C21-C22	19.58	154.74	127.28
26	K	1051	BCR	C16-C17-C18	19.50	154.63	127.28
26	k	6051	BCR	C16-C17-C18	19.47	154.59	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	B	1048	BCR	C7-C8-C9	19.28	154.76	126.23
26	b	6048	BCR	C7-C8-C9	19.26	154.73	126.23
26	b	6045	BCR	C21-C20-C19	18.81	177.72	123.20
26	B	1045	BCR	C21-C20-C19	18.81	177.71	123.20
26	k	6051	BCR	C21-C20-C19	18.69	177.37	123.20
26	K	1051	BCR	C21-C20-C19	18.68	177.34	123.20
25	a	6043	PQ9	C30-C28-C27	18.62	162.97	121.17
26	b	6047	BCR	C21-C20-C19	18.44	176.64	123.20
26	B	1047	BCR	C21-C20-C19	18.43	176.59	123.20
26	K	1052	BCR	C7-C8-C9	18.34	153.37	126.23
26	T	6046	BCR	C16-C15-C14	18.34	161.05	123.52
26	k	6052	BCR	C7-C8-C9	17.95	152.79	126.23
26	B	1048	BCR	C21-C20-C19	17.62	174.27	123.20
26	b	6048	BCR	C21-C20-C19	17.62	174.25	123.20
26	t	1046	BCR	C15-C16-C17	17.30	158.92	123.52
26	K	1051	BCR	C7-C8-C9	17.01	151.39	126.23
26	k	6051	BCR	C7-C8-C9	16.99	151.38	126.23
25	D	1042	PQ9	C30-C28-C27	16.94	159.20	121.17
26	T	6046	BCR	C11-C12-C13	16.78	172.38	126.36
26	A	1044	BCR	C16-C15-C14	16.71	157.72	123.52
26	d	6050	BCR	C11-C12-C13	16.71	172.17	126.36
26	D	1050	BCR	C11-C12-C13	16.70	172.16	126.36
26	a	6044	BCR	C16-C15-C14	16.70	157.68	123.52
25	d	6042	PQ9	C30-C28-C27	16.46	158.12	121.17
26	z	6053	BCR	C40-C30-C25	-16.39	84.54	110.24
26	Z	1053	BCR	C40-C30-C25	-16.39	84.55	110.24
26	D	1050	BCR	C16-C15-C14	16.38	157.04	123.52
26	d	6050	BCR	C16-C15-C14	16.37	157.02	123.52
26	c	6054	BCR	C21-C20-C19	16.15	170.00	123.20
26	C	1054	BCR	C21-C20-C19	16.15	169.99	123.20
26	z	6053	BCR	C21-C20-C19	16.15	169.99	123.20
26	Z	1053	BCR	C21-C20-C19	16.12	169.91	123.20
26	A	1044	BCR	C21-C20-C19	15.96	169.44	123.20
26	a	6044	BCR	C21-C20-C19	15.95	169.41	123.20
26	t	1046	BCR	C16-C15-C14	15.70	155.64	123.52
26	z	6053	BCR	C16-C15-C14	15.69	155.61	123.52
26	Z	1053	BCR	C16-C15-C14	15.68	155.60	123.52
26	A	1044	BCR	C16-C17-C18	15.66	149.25	127.28
26	a	6044	BCR	C16-C17-C18	15.65	149.22	127.28
25	d	6042	PQ9	C29-C28-C27	-15.45	83.94	123.63
26	k	6052	BCR	C15-C16-C17	15.45	155.12	123.52
25	D	1042	PQ9	C29-C28-C27	-15.38	84.13	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	d	6050	BCR	C21-C20-C19	15.38	167.76	123.20
26	D	1050	BCR	C21-C20-C19	15.38	167.76	123.20
25	a	6043	PQ9	C29-C28-C27	-15.30	84.33	123.63
26	k	6052	BCR	C16-C17-C18	15.26	148.68	127.28
26	Z	1053	BCR	C10-C11-C12	14.90	166.38	123.20
26	t	1046	BCR	C11-C12-C13	14.90	167.21	126.36
26	z	6053	BCR	C10-C11-C12	14.89	166.35	123.20
26	k	6051	BCR	C16-C15-C14	14.81	153.81	123.52
26	K	1051	BCR	C16-C15-C14	14.80	153.79	123.52
26	t	1046	BCR	C21-C20-C19	14.54	165.34	123.20
26	a	6044	BCR	C20-C21-C22	14.54	147.67	127.28
26	A	1044	BCR	C20-C21-C22	14.50	147.61	127.28
26	K	1052	BCR	C16-C17-C18	14.34	147.39	127.28
25	A	1043	PQ9	C29-C28-C27	-14.33	86.83	123.63
26	d	6050	BCR	C20-C21-C22	14.03	146.95	127.28
26	D	1050	BCR	C20-C21-C22	14.00	146.91	127.28
26	b	6045	BCR	C16-C15-C14	13.56	151.27	123.52
26	B	1045	BCR	C16-C15-C14	13.55	151.25	123.52
26	D	1050	BCR	C10-C11-C12	13.04	160.98	123.20
26	d	6050	BCR	C10-C11-C12	13.03	160.94	123.20
26	K	1051	BCR	C20-C21-C22	12.78	145.21	127.28
26	k	6051	BCR	C20-C21-C22	12.77	145.19	127.28
26	T	6046	BCR	C16-C17-C18	12.27	144.49	127.28
26	H	1049	BCR	C11-C12-C13	12.25	159.96	126.36
26	h	6049	BCR	C11-C12-C13	12.23	159.91	126.36
26	b	6045	BCR	C16-C17-C18	11.99	144.09	127.28
26	B	1045	BCR	C16-C17-C18	11.99	144.09	127.28
26	k	6052	BCR	C20-C21-C22	11.87	143.92	127.28
26	z	6053	BCR	C20-C19-C18	11.83	158.80	126.36
26	Z	1053	BCR	C20-C19-C18	11.82	158.78	126.36
26	b	6045	BCR	C20-C21-C22	11.79	143.82	127.28
26	b	6047	BCR	C20-C19-C18	11.79	158.69	126.36
26	B	1045	BCR	C20-C21-C22	11.78	143.81	127.28
26	B	1047	BCR	C20-C19-C18	11.77	158.65	126.36
26	H	1049	BCR	C7-C8-C9	11.72	143.58	126.23
26	h	6049	BCR	C7-C8-C9	11.72	143.57	126.23
26	K	1052	BCR	C21-C20-C19	11.60	156.80	123.20
26	K	1052	BCR	C20-C21-C22	11.55	143.47	127.28
26	A	1044	BCR	C11-C12-C13	11.47	157.82	126.36
26	a	6044	BCR	C11-C12-C13	11.46	157.80	126.36
26	D	1050	BCR	C20-C19-C18	11.37	157.53	126.36
26	t	1046	BCR	C20-C21-C22	11.37	143.22	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	d	6050	BCR	C20-C19-C18	11.37	157.53	126.36
26	h	6049	BCR	C21-C20-C19	11.02	155.12	123.20
26	H	1049	BCR	C21-C20-C19	11.01	155.09	123.20
26	k	6052	BCR	C21-C20-C19	10.99	155.03	123.20
26	k	6052	BCR	C16-C15-C14	10.73	145.48	123.52
26	B	1047	BCR	C16-C15-C14	10.69	145.40	123.52
26	b	6047	BCR	C16-C15-C14	10.69	145.39	123.52
26	a	6044	BCR	C10-C11-C12	10.61	153.94	123.20
26	A	1044	BCR	C10-C11-C12	10.60	153.91	123.20
26	H	1049	BCR	C10-C11-C12	10.50	153.61	123.20
26	h	6049	BCR	C10-C11-C12	10.47	153.54	123.20
26	B	1047	BCR	C20-C21-C22	10.36	141.80	127.28
26	b	6047	BCR	C20-C21-C22	10.34	141.78	127.28
26	Z	1053	BCR	C11-C12-C13	10.31	154.64	126.36
26	z	6053	BCR	C11-C12-C13	10.31	154.63	126.36
26	Z	1053	BCR	C16-C17-C18	10.31	141.73	127.28
26	z	6053	BCR	C16-C17-C18	10.27	141.68	127.28
26	h	6049	BCR	C16-C17-C18	10.27	141.68	127.28
26	h	6049	BCR	C20-C21-C22	10.26	141.67	127.28
26	Z	1053	BCR	C20-C21-C22	10.26	141.66	127.28
26	H	1049	BCR	C20-C21-C22	10.25	141.65	127.28
26	H	1049	BCR	C16-C17-C18	10.24	141.64	127.28
26	z	6053	BCR	C20-C21-C22	10.19	141.56	127.28
26	K	1052	BCR	C11-C12-C13	10.17	154.26	126.36
26	T	6046	BCR	C20-C19-C18	10.14	154.16	126.36
23	C	1034	CLA	CED-O2D-CGD	9.85	138.26	115.92
26	D	1050	BCR	C16-C17-C18	9.81	141.03	127.28
26	d	6050	BCR	C16-C17-C18	9.79	141.01	127.28
26	c	6054	BCR	C16-C17-C18	9.55	140.67	127.28
26	C	1054	BCR	C16-C17-C18	9.54	140.65	127.28
26	b	6047	BCR	C16-C17-C18	9.53	140.64	127.28
26	B	1047	BCR	C16-C17-C18	9.52	140.63	127.28
26	B	1048	BCR	C20-C21-C22	9.49	140.59	127.28
26	b	6048	BCR	C20-C21-C22	9.48	140.57	127.28
26	K	1052	BCR	C16-C15-C14	9.38	142.71	123.52
23	b	6010	CLA	CMD-C2D-C1D	9.23	140.98	124.73
23	B	1010	CLA	CMD-C2D-C1D	9.23	140.98	124.73
26	B	1045	BCR	C20-C19-C18	9.20	151.60	126.36
26	b	6045	BCR	C20-C19-C18	9.19	151.57	126.36
26	d	6050	BCR	C7-C8-C9	9.14	139.76	126.23
26	D	1050	BCR	C7-C8-C9	9.14	139.76	126.23
26	c	6054	BCR	C20-C19-C18	9.08	151.25	126.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	C	1054	BCR	C20-C19-C18	9.07	151.24	126.36
24	A	1039	PHO	CAC-C3C-C2C	-9.01	111.01	127.56
24	a	6039	PHO	CAC-C3C-C2C	-9.00	111.02	127.56
26	c	6054	BCR	C16-C15-C14	8.97	141.87	123.52
26	C	1054	BCR	C16-C15-C14	8.94	141.81	123.52
26	c	6054	BCR	C10-C11-C12	8.91	149.01	123.20
26	C	1054	BCR	C10-C11-C12	8.90	148.99	123.20
25	A	1043	PQ9	C11-C12-C13	-8.89	111.51	126.83
26	B	1048	BCR	C11-C12-C13	8.84	150.60	126.36
26	b	6048	BCR	C11-C12-C13	8.83	150.56	126.36
26	k	6052	BCR	C11-C12-C13	8.70	150.21	126.36
26	K	1052	BCR	C10-C11-C12	8.54	147.94	123.20
24	a	6039	PHO	CMC-C2C-C1C	-8.52	109.41	124.73
23	B	1022	CLA	CMD-C2D-C1D	8.50	139.70	124.73
24	A	1039	PHO	CMC-C2C-C1C	-8.49	109.45	124.73
23	b	6022	CLA	CMD-C2D-C1D	8.48	139.66	124.73
24	A	1039	PHO	C2D-C1D-ND	8.46	115.55	109.43
26	b	6048	BCR	C20-C19-C18	8.46	149.56	126.36
24	a	6039	PHO	C2D-C1D-ND	8.46	115.54	109.43
26	B	1048	BCR	C20-C19-C18	8.45	149.54	126.36
24	a	6039	PHO	O2D-CGD-CBD	8.44	120.22	110.95
24	A	1039	PHO	O2D-CGD-CBD	8.42	120.20	110.95
25	a	6043	PQ9	C11-C12-C13	-8.35	112.45	126.83
24	A	1039	PHO	CMD-C2D-C3D	-8.33	108.04	124.68
24	a	6039	PHO	CMD-C2D-C3D	-8.33	108.04	124.68
24	d	6038	PHO	CMD-C2D-C3D	-8.32	108.06	124.68
24	A	1038	PHO	CMD-C2D-C3D	-8.31	108.07	124.68
23	B	1015	CLA	CMD-C2D-C1D	8.30	139.35	124.73
26	B	1048	BCR	C16-C15-C14	8.30	140.50	123.52
26	b	6048	BCR	C16-C15-C14	8.29	140.49	123.52
23	b	6015	CLA	CMD-C2D-C1D	8.29	139.33	124.73
26	B	1047	BCR	C10-C11-C12	8.23	147.05	123.20
26	b	6047	BCR	C10-C11-C12	8.23	147.04	123.20
23	b	6021	CLA	CMD-C2D-C1D	8.23	139.21	124.73
23	c	6033	CLA	CMD-C2D-C1D	8.23	139.21	124.73
23	C	1034	CLA	CMD-C2D-C1D	8.22	139.21	124.73
23	b	6017	CLA	CMD-C2D-C1D	8.22	139.20	124.73
23	c	6030	CLA	CMD-C2D-C1D	8.22	139.20	124.73
23	A	1003	CLA	CMD-C2D-C1D	8.21	139.19	124.73
23	d	6004	CLA	CMD-C2D-C1D	8.21	139.19	124.73
23	B	1016	CLA	CMD-C2D-C1D	8.21	139.19	124.73
23	H	1017	CLA	CMD-C2D-C1D	8.21	139.18	124.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6036	CLA	CMD-C2D-C1D	8.21	139.18	124.73
23	C	1028	CLA	CMD-C2D-C1D	8.21	139.18	124.73
23	B	1021	CLA	CMD-C2D-C1D	8.21	139.18	124.73
23	a	6003	CLA	CMD-C2D-C1D	8.21	139.18	124.73
23	d	6005	CLA	CMD-C2D-C1D	8.21	139.18	124.73
23	C	1033	CLA	CMD-C2D-C1D	8.20	139.17	124.73
23	b	6012	CLA	CMD-C2D-C1D	8.20	139.17	124.73
24	d	6038	PHO	C2D-C1D-ND	8.20	115.36	109.43
23	D	1004	CLA	CMD-C2D-C1D	8.20	139.17	124.73
23	a	6006	CLA	CMD-C2D-C1D	8.20	139.17	124.73
23	c	6025	CLA	CMD-C2D-C1D	8.20	139.17	124.73
23	C	1036	CLA	CMD-C2D-C1D	8.20	139.17	124.73
23	c	6032	CLA	CMD-C2D-C1D	8.20	139.17	124.73
23	B	1011	CLA	CMD-C2D-C1D	8.20	139.17	124.73
23	C	1030	CLA	CMD-C2D-C1D	8.20	139.16	124.73
23	b	6016	CLA	CMD-C2D-C1D	8.20	139.16	124.73
23	c	6035	CLA	CMD-C2D-C1D	8.20	139.16	124.73
23	c	6034	CLA	CMD-C2D-C1D	8.20	139.16	124.73
23	c	6037	CLA	CMD-C2D-C1D	8.19	139.16	124.73
23	d	6008	CLA	CMD-C2D-C1D	8.19	139.16	124.73
23	C	1025	CLA	CMD-C2D-C1D	8.19	139.15	124.73
23	c	6027	CLA	CMD-C2D-C1D	8.19	139.15	124.73
23	b	6023	CLA	CMD-C2D-C1D	8.19	139.15	124.73
23	C	1031	CLA	CMD-C2D-C1D	8.19	139.15	124.73
23	c	6031	CLA	CMD-C2D-C1D	8.18	139.14	124.73
23	b	6011	CLA	CMD-C2D-C1D	8.18	139.14	124.73
23	C	1032	CLA	CMD-C2D-C1D	8.18	139.14	124.73
23	D	1005	CLA	CMD-C2D-C1D	8.18	139.13	124.73
23	D	1008	CLA	CMD-C2D-C1D	8.18	139.13	124.73
23	b	6020	CLA	CMD-C2D-C1D	8.18	139.13	124.73
23	C	1035	CLA	CMD-C2D-C1D	8.18	139.13	124.73
23	C	1037	CLA	CMD-C2D-C1D	8.18	139.13	124.73
23	B	1023	CLA	CMD-C2D-C1D	8.18	139.13	124.73
23	B	1020	CLA	CMD-C2D-C1D	8.18	139.12	124.73
23	A	1006	CLA	CMD-C2D-C1D	8.17	139.12	124.73
23	B	1018	CLA	CMD-C2D-C1D	8.17	139.12	124.73
23	b	6018	CLA	CMD-C2D-C1D	8.17	139.12	124.73
23	C	1027	CLA	CMD-C2D-C1D	8.17	139.12	124.73
23	B	1013	CLA	CMD-C2D-C1D	8.17	139.12	124.73
23	c	6028	CLA	CMD-C2D-C1D	8.17	139.11	124.73
23	B	1012	CLA	CMD-C2D-C1D	8.16	139.10	124.73
24	A	1038	PHO	C2D-C1D-ND	8.15	115.32	109.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	b	6013	CLA	CMD-C2D-C1D	8.15	139.08	124.73
23	a	6007	CLA	CMD-C2D-C1D	8.10	138.98	124.73
25	d	6042	PQ9	C11-C12-C13	-8.10	112.89	126.83
23	A	1007	CLA	CMD-C2D-C1D	8.08	138.96	124.73
26	Z	1053	BCR	C40-C30-C39	-7.98	85.80	108.63
24	A	1038	PHO	CMC-C2C-C1C	-7.97	110.39	124.73
23	b	6009	CLA	CMD-C2D-C1D	7.97	138.76	124.73
24	d	6038	PHO	CMC-C2C-C1C	-7.97	110.40	124.73
26	z	6053	BCR	C40-C30-C39	-7.97	85.82	108.63
23	B	1009	CLA	CMD-C2D-C1D	7.96	138.75	124.73
23	b	6024	CLA	CMD-C2D-C1D	7.96	138.75	124.73
23	B	1024	CLA	CMD-C2D-C1D	7.96	138.75	124.73
26	T	6046	BCR	C10-C11-C12	7.88	146.04	123.20
26	t	1046	BCR	C20-C19-C18	7.85	147.90	126.36
23	B	1014	CLA	CMD-C2D-C1D	7.82	138.50	124.73
23	b	6014	CLA	CMD-C2D-C1D	7.81	138.47	124.73
25	D	1042	PQ9	C11-C12-C13	-7.59	113.75	126.83
26	t	1046	BCR	C10-C11-C12	7.59	145.19	123.20
24	d	6038	PHO	CAC-C3C-C2C	-7.58	113.64	127.56
24	A	1038	PHO	CAC-C3C-C2C	-7.57	113.66	127.56
24	d	6038	PHO	C2B-C1B-NB	7.49	114.85	109.43
24	A	1038	PHO	C2B-C1B-NB	7.49	114.84	109.43
23	c	6026	CLA	CMD-C2D-C1D	7.48	137.90	124.73
23	C	1026	CLA	CMD-C2D-C1D	7.47	137.88	124.73
24	A	1039	PHO	C2B-C1B-NB	7.41	114.78	109.43
24	a	6039	PHO	C2B-C1B-NB	7.40	114.78	109.43
23	C	1029	CLA	CMD-C2D-C1D	7.23	137.45	124.73
23	c	6029	CLA	CMD-C2D-C1D	7.22	137.44	124.73
23	b	6014	CLA	C2B-C1B-NB	7.16	117.75	110.33
23	B	1014	CLA	C2B-C1B-NB	7.15	117.75	110.33
26	H	1049	BCR	C20-C19-C18	7.09	145.79	126.36
26	h	6049	BCR	C20-C19-C18	7.08	145.77	126.36
23	B	1019	CLA	CMD-C2D-C1D	7.06	137.16	124.73
23	b	6019	CLA	CMD-C2D-C1D	7.04	137.13	124.73
23	B	1015	CLA	C2B-C1B-NB	6.94	117.53	110.33
23	b	6015	CLA	C2B-C1B-NB	6.92	117.50	110.33
26	B	1045	BCR	C11-C12-C13	6.89	145.25	126.36
26	b	6045	BCR	C11-C12-C13	6.88	145.22	126.36
24	d	6038	PHO	O2D-CGD-CBD	6.86	118.49	110.95
25	D	1042	PQ9	C16-C17-C18	-6.86	111.92	127.62
24	A	1038	PHO	O2D-CGD-CBD	6.85	118.48	110.95
26	C	1054	BCR	C11-C12-C13	6.81	145.02	126.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	c	6054	BCR	C11-C12-C13	6.80	145.02	126.36
25	d	6042	PQ9	C16-C17-C18	-6.79	112.08	127.62
26	A	1044	BCR	C20-C19-C18	6.77	144.93	126.36
26	a	6044	BCR	C20-C19-C18	6.76	144.90	126.36
23	b	6024	CLA	C2C-C1C-NC	6.73	117.05	109.98
23	B	1024	CLA	C2C-C1C-NC	6.72	117.04	109.98
26	A	1044	BCR	C7-C8-C9	6.65	136.07	126.23
26	T	6046	BCR	C30-C25-C26	-6.63	113.58	122.64
26	a	6044	BCR	C7-C8-C9	6.62	136.03	126.23
23	B	1019	CLA	C2C-C1C-NC	6.62	116.93	109.98
23	b	6019	CLA	C2C-C1C-NC	6.59	116.90	109.98
26	A	1044	BCR	C30-C25-C26	-6.53	113.71	122.64
26	B	1045	BCR	C10-C11-C12	6.52	142.11	123.20
26	b	6045	BCR	C10-C11-C12	6.52	142.08	123.20
23	b	6010	CLA	C2C-C1C-NC	6.51	116.82	109.98
26	a	6044	BCR	C30-C25-C26	-6.50	113.75	122.64
23	B	1009	CLA	C2C-C1C-NC	6.50	116.80	109.98
24	A	1038	PHO	C3B-C4B-NB	6.49	111.70	107.46
23	b	6009	CLA	C2C-C1C-NC	6.49	116.80	109.98
23	B	1010	CLA	C2C-C1C-NC	6.49	116.79	109.98
24	d	6038	PHO	C3B-C4B-NB	6.48	111.69	107.46
23	b	6022	CLA	C2C-C1C-NC	6.47	116.78	109.98
23	B	1022	CLA	C2C-C1C-NC	6.46	116.77	109.98
24	a	6039	PHO	C3B-C4B-NB	6.43	111.65	107.46
23	c	6029	CLA	C2B-C1B-NB	6.41	116.97	110.33
26	K	1051	BCR	C10-C11-C12	6.41	141.76	123.20
26	k	6051	BCR	C10-C11-C12	6.40	141.76	123.20
23	b	6024	CLA	C2B-C1B-NB	6.40	116.96	110.33
26	k	6052	BCR	C20-C19-C18	6.39	143.88	126.36
26	k	6052	BCR	C10-C11-C12	6.39	141.71	123.20
23	B	1014	CLA	C3B-C2B-C1B	-6.38	99.65	107.17
23	B	1024	CLA	C2B-C1B-NB	6.38	116.94	110.33
23	C	1029	CLA	C2B-C1B-NB	6.37	116.93	110.33
23	b	6014	CLA	C3B-C2B-C1B	-6.36	99.67	107.17
24	A	1039	PHO	C3B-C4B-NB	6.35	111.61	107.46
23	c	6036	CLA	C2B-C1B-NB	6.35	116.92	110.33
23	c	6037	CLA	C2B-C1B-NB	6.34	116.90	110.33
23	C	1034	CLA	C2B-C1B-NB	6.32	116.89	110.33
23	b	6020	CLA	C2B-C1B-NB	6.32	116.88	110.33
23	b	6018	CLA	C2B-C1B-NB	6.31	116.87	110.33
23	A	1006	CLA	C2B-C1B-NB	6.31	116.87	110.33
23	D	1008	CLA	C2B-C1B-NB	6.31	116.87	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	C	1026	CLA	C2C-C1C-NC	6.31	116.61	109.98
23	C	1031	CLA	C2B-C1B-NB	6.31	116.87	110.33
23	C	1037	CLA	C2B-C1B-NB	6.31	116.87	110.33
23	C	1036	CLA	C2B-C1B-NB	6.31	116.86	110.33
23	c	6027	CLA	C2B-C1B-NB	6.31	116.86	110.33
23	H	1017	CLA	C2B-C1B-NB	6.30	116.86	110.33
23	c	6028	CLA	C2B-C1B-NB	6.30	116.86	110.33
23	C	1030	CLA	C2B-C1B-NB	6.30	116.86	110.33
23	b	6012	CLA	C2B-C1B-NB	6.30	116.86	110.33
23	d	6008	CLA	C2B-C1B-NB	6.30	116.86	110.33
23	B	1023	CLA	C2B-C1B-NB	6.30	116.86	110.33
23	c	6030	CLA	C2B-C1B-NB	6.30	116.86	110.33
23	C	1035	CLA	C2B-C1B-NB	6.30	116.86	110.33
23	b	6017	CLA	C2B-C1B-NB	6.29	116.85	110.33
23	b	6019	CLA	O2D-CGD-O1D	-6.29	111.60	123.85
23	b	6013	CLA	C2B-C1B-NB	6.29	116.85	110.33
23	c	6026	CLA	C2C-C1C-NC	6.29	116.59	109.98
23	B	1019	CLA	O2D-CGD-O1D	-6.29	111.61	123.85
23	B	1012	CLA	C2B-C1B-NB	6.29	116.85	110.33
23	b	6011	CLA	C2B-C1B-NB	6.29	116.85	110.33
23	c	6035	CLA	C2B-C1B-NB	6.29	116.85	110.33
23	b	6016	CLA	C2B-C1B-NB	6.29	116.85	110.33
23	B	1018	CLA	C2B-C1B-NB	6.29	116.84	110.33
23	c	6029	CLA	C2C-C1C-NC	6.28	116.58	109.98
23	c	6025	CLA	C2B-C1B-NB	6.28	116.84	110.33
23	c	6031	CLA	C2B-C1B-NB	6.28	116.84	110.33
23	a	6003	CLA	C2B-C1B-NB	6.28	116.84	110.33
23	d	6004	CLA	C2B-C1B-NB	6.28	116.84	110.33
23	C	1029	CLA	C2C-C1C-NC	6.28	116.58	109.98
23	C	1032	CLA	C2B-C1B-NB	6.28	116.84	110.33
23	C	1025	CLA	C2B-C1B-NB	6.27	116.83	110.33
23	B	1020	CLA	C2B-C1B-NB	6.27	116.83	110.33
23	B	1011	CLA	C2B-C1B-NB	6.27	116.83	110.33
23	c	6034	CLA	C2B-C1B-NB	6.27	116.83	110.33
23	D	1004	CLA	C2B-C1B-NB	6.27	116.83	110.33
23	c	6026	CLA	C2B-C1B-NB	6.27	116.83	110.33
23	C	1026	CLA	C2B-C1B-NB	6.27	116.82	110.33
23	A	1003	CLA	C2B-C1B-NB	6.26	116.82	110.33
23	B	1013	CLA	C2B-C1B-NB	6.26	116.82	110.33
23	C	1028	CLA	C2B-C1B-NB	6.26	116.82	110.33
23	D	1005	CLA	C2B-C1B-NB	6.26	116.81	110.33
23	C	1033	CLA	C2B-C1B-NB	6.26	116.81	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	B	1016	CLA	C2B-C1B-NB	6.26	116.81	110.33
23	B	1021	CLA	C2B-C1B-NB	6.25	116.81	110.33
23	b	6023	CLA	C2B-C1B-NB	6.25	116.81	110.33
26	B	1048	BCR	C10-C11-C12	6.25	141.30	123.20
23	a	6006	CLA	C2B-C1B-NB	6.25	116.80	110.33
23	c	6032	CLA	C2B-C1B-NB	6.25	116.80	110.33
23	c	6033	CLA	C2B-C1B-NB	6.24	116.80	110.33
23	d	6005	CLA	C2B-C1B-NB	6.24	116.80	110.33
23	b	6021	CLA	C2B-C1B-NB	6.24	116.79	110.33
26	b	6048	BCR	C10-C11-C12	6.24	141.27	123.20
23	C	1027	CLA	C2B-C1B-NB	6.23	116.79	110.33
23	b	6010	CLA	C2B-C1B-NB	6.23	116.79	110.33
23	B	1010	CLA	C2B-C1B-NB	6.21	116.76	110.33
26	t	1046	BCR	C30-C25-C26	-6.20	114.17	122.64
23	c	6034	CLA	C2C-C1C-NC	6.11	116.40	109.98
23	c	6032	CLA	C2C-C1C-NC	6.10	116.39	109.98
23	C	1035	CLA	C2C-C1C-NC	6.10	116.39	109.98
23	c	6027	CLA	C2C-C1C-NC	6.09	116.37	109.98
23	H	1017	CLA	C2C-C1C-NC	6.08	116.37	109.98
23	b	6011	CLA	C2C-C1C-NC	6.08	116.37	109.98
23	B	1018	CLA	C2C-C1C-NC	6.08	116.37	109.98
23	b	6013	CLA	C2C-C1C-NC	6.08	116.37	109.98
23	b	6017	CLA	C2C-C1C-NC	6.08	116.37	109.98
23	B	1013	CLA	C2C-C1C-NC	6.08	116.37	109.98
23	D	1008	CLA	C2C-C1C-NC	6.08	116.37	109.98
23	c	6035	CLA	C2C-C1C-NC	6.08	116.37	109.98
23	c	6036	CLA	C2C-C1C-NC	6.08	116.37	109.98
23	C	1030	CLA	C2C-C1C-NC	6.08	116.36	109.98
23	D	1004	CLA	C2C-C1C-NC	6.08	116.36	109.98
23	c	6030	CLA	C2C-C1C-NC	6.08	116.36	109.98
23	B	1020	CLA	C2C-C1C-NC	6.07	116.36	109.98
26	d	6050	BCR	C33-C5-C6	-6.07	117.86	124.48
23	B	1023	CLA	C2C-C1C-NC	6.07	116.36	109.98
23	C	1028	CLA	C2C-C1C-NC	6.07	116.36	109.98
23	C	1032	CLA	C2C-C1C-NC	6.07	116.35	109.98
23	B	1011	CLA	C2C-C1C-NC	6.06	116.35	109.98
23	a	6006	CLA	C2C-C1C-NC	6.06	116.35	109.98
23	c	6028	CLA	C2C-C1C-NC	6.06	116.35	109.98
23	C	1025	CLA	C2C-C1C-NC	6.06	116.35	109.98
23	C	1034	CLA	C2C-C1C-NC	6.06	116.35	109.98
23	d	6004	CLA	C2C-C1C-NC	6.06	116.35	109.98
23	d	6008	CLA	C2C-C1C-NC	6.06	116.35	109.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	a	6003	CLA	C2C-C1C-NC	6.06	116.34	109.98
23	C	1027	CLA	C2C-C1C-NC	6.06	116.34	109.98
23	b	6020	CLA	C2C-C1C-NC	6.06	116.34	109.98
23	d	6005	CLA	C2C-C1C-NC	6.06	116.34	109.98
26	D	1050	BCR	C33-C5-C6	-6.06	117.88	124.48
23	c	6025	CLA	C2C-C1C-NC	6.05	116.34	109.98
23	C	1033	CLA	C2C-C1C-NC	6.05	116.34	109.98
23	b	6016	CLA	C2C-C1C-NC	6.05	116.34	109.98
23	b	6018	CLA	C2C-C1C-NC	6.05	116.34	109.98
23	C	1037	CLA	C2C-C1C-NC	6.05	116.33	109.98
23	A	1003	CLA	C2C-C1C-NC	6.04	116.33	109.98
26	z	6053	BCR	C40-C30-C29	-6.04	85.77	108.95
23	b	6023	CLA	C2C-C1C-NC	6.04	116.32	109.98
26	Z	1053	BCR	C40-C30-C29	-6.03	85.78	108.95
23	D	1005	CLA	C2C-C1C-NC	6.03	116.32	109.98
23	B	1009	CLA	C2B-C1B-NB	6.03	116.58	110.33
23	C	1031	CLA	C2C-C1C-NC	6.02	116.31	109.98
23	c	6037	CLA	C2C-C1C-NC	6.02	116.31	109.98
23	c	6033	CLA	C2C-C1C-NC	6.02	116.31	109.98
23	b	6009	CLA	C2B-C1B-NB	6.02	116.57	110.33
23	C	1036	CLA	C2C-C1C-NC	6.02	116.30	109.98
23	A	1006	CLA	C2C-C1C-NC	6.02	116.30	109.98
23	B	1012	CLA	C2C-C1C-NC	6.02	116.30	109.98
23	b	6012	CLA	C2C-C1C-NC	6.01	116.30	109.98
23	B	1016	CLA	C2C-C1C-NC	6.01	116.30	109.98
23	c	6031	CLA	C2C-C1C-NC	6.01	116.29	109.98
23	B	1021	CLA	C2C-C1C-NC	6.00	116.28	109.98
23	b	6021	CLA	C2C-C1C-NC	5.98	116.26	109.98
23	B	1014	CLA	C2C-C1C-NC	5.96	116.24	109.98
23	A	1007	CLA	C2C-C1C-NC	5.94	116.22	109.98
23	a	6007	CLA	C2C-C1C-NC	5.93	116.21	109.98
23	c	6029	CLA	O1D-CGD-CBD	-5.92	112.84	124.52
26	T	6046	BCR	C1-C6-C5	-5.92	114.55	122.64
23	b	6014	CLA	C2C-C1C-NC	5.91	116.19	109.98
23	B	1022	CLA	C2B-C1B-NB	5.90	116.45	110.33
23	b	6022	CLA	C2B-C1B-NB	5.89	116.44	110.33
23	b	6024	CLA	C3B-C2B-C1B	-5.89	100.22	107.17
23	C	1029	CLA	O1D-CGD-CBD	-5.89	112.90	124.52
23	a	6007	CLA	C2B-C1B-NB	5.87	116.42	110.33
23	B	1024	CLA	C3B-C2B-C1B	-5.87	100.25	107.17
23	A	1007	CLA	C2B-C1B-NB	5.87	116.42	110.33
23	B	1009	CLA	C3B-C2B-C1B	-5.86	100.26	107.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	A	1038	PHO	CAC-C3C-C4C	-5.86	108.98	124.03
26	Z	1053	BCR	C29-C30-C25	5.86	118.95	110.44
24	d	6038	PHO	CAC-C3C-C4C	-5.86	108.99	124.03
23	b	6009	CLA	C3B-C2B-C1B	-5.84	100.28	107.17
26	T	6046	BCR	C4-C5-C6	-5.84	114.81	122.70
26	z	6053	BCR	C29-C30-C25	5.84	118.92	110.44
23	B	1019	CLA	C3B-C2B-C1B	-5.83	100.30	107.17
23	b	6019	CLA	C3B-C2B-C1B	-5.83	100.30	107.17
23	B	1015	CLA	C3B-C2B-C1B	-5.82	100.31	107.17
23	b	6015	CLA	C3B-C2B-C1B	-5.80	100.33	107.17
26	K	1052	BCR	C20-C19-C18	5.78	142.22	126.36
23	c	6034	CLA	C3B-C2B-C1B	-5.77	100.37	107.17
23	c	6036	CLA	C3B-C2B-C1B	-5.77	100.37	107.17
23	B	1015	CLA	C2C-C1C-NC	5.76	116.03	109.98
23	b	6015	CLA	C2C-C1C-NC	5.75	116.03	109.98
23	C	1036	CLA	C3B-C2B-C1B	-5.73	100.41	107.17
23	c	6031	CLA	C3B-C2B-C1B	-5.73	100.41	107.17
23	B	1022	CLA	C3B-C2B-C1B	-5.73	100.42	107.17
23	b	6018	CLA	C3B-C2B-C1B	-5.73	100.42	107.17
23	A	1006	CLA	C3B-C2B-C1B	-5.72	100.43	107.17
23	B	1023	CLA	C3B-C2B-C1B	-5.72	100.43	107.17
23	C	1031	CLA	C3B-C2B-C1B	-5.72	100.43	107.17
23	H	1017	CLA	C3B-C2B-C1B	-5.72	100.43	107.17
23	c	6037	CLA	C3B-C2B-C1B	-5.72	100.43	107.17
23	b	6023	CLA	C3B-C2B-C1B	-5.72	100.43	107.17
23	c	6027	CLA	C3B-C2B-C1B	-5.72	100.43	107.17
23	b	6022	CLA	C3B-C2B-C1B	-5.71	100.43	107.17
23	B	1013	CLA	C3B-C2B-C1B	-5.71	100.44	107.17
23	B	1018	CLA	C3B-C2B-C1B	-5.71	100.44	107.17
23	C	1029	CLA	C3B-C2B-C1B	-5.71	100.44	107.17
23	b	6013	CLA	C3B-C2B-C1B	-5.71	100.44	107.17
23	c	6029	CLA	C3B-C2B-C1B	-5.71	100.44	107.17
23	d	6004	CLA	C3B-C2B-C1B	-5.71	100.44	107.17
23	b	6017	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
23	a	6003	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
23	B	1021	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
23	C	1034	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
23	d	6005	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
23	A	1003	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
23	C	1032	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
23	C	1037	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
23	C	1028	CLA	C3B-C2B-C1B	-5.70	100.45	107.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	D	1004	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
23	D	1008	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
23	b	6020	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
23	b	6021	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
23	B	1011	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
23	c	6033	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
23	b	6012	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
23	c	6028	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
23	B	1020	CLA	C3B-C2B-C1B	-5.69	100.47	107.17
23	D	1005	CLA	C3B-C2B-C1B	-5.69	100.47	107.17
23	C	1033	CLA	C3B-C2B-C1B	-5.68	100.47	107.17
23	C	1035	CLA	C3B-C2B-C1B	-5.68	100.47	107.17
23	B	1012	CLA	C3B-C2B-C1B	-5.68	100.47	107.17
23	c	6032	CLA	C3B-C2B-C1B	-5.68	100.47	107.17
23	C	1027	CLA	C3B-C2B-C1B	-5.68	100.48	107.17
23	a	6006	CLA	C3B-C2B-C1B	-5.68	100.48	107.17
23	B	1016	CLA	C3B-C2B-C1B	-5.67	100.48	107.17
23	c	6030	CLA	C3B-C2B-C1B	-5.67	100.48	107.17
23	d	6008	CLA	C3B-C2B-C1B	-5.67	100.48	107.17
23	c	6035	CLA	C3B-C2B-C1B	-5.67	100.49	107.17
24	A	1039	PHO	CAC-C3C-C4C	-5.67	109.48	124.03
23	b	6011	CLA	C3B-C2B-C1B	-5.66	100.49	107.17
23	b	6016	CLA	C3B-C2B-C1B	-5.66	100.49	107.17
24	a	6039	PHO	CAC-C3C-C4C	-5.66	109.49	124.03
23	C	1030	CLA	C3B-C2B-C1B	-5.66	100.50	107.17
23	b	6010	CLA	C3B-C2B-C1B	-5.66	100.50	107.17
23	c	6025	CLA	C3B-C2B-C1B	-5.66	100.50	107.17
23	C	1025	CLA	C3B-C2B-C1B	-5.65	100.50	107.17
23	B	1010	CLA	C3B-C2B-C1B	-5.62	100.55	107.17
26	z	6053	BCR	C39-C30-C25	5.58	119.00	110.24
26	Z	1053	BCR	C39-C30-C25	5.58	118.99	110.24
26	K	1051	BCR	C11-C12-C13	5.54	141.55	126.36
26	k	6051	BCR	C11-C12-C13	5.54	141.55	126.36
23	C	1026	CLA	C3B-C2B-C1B	-5.53	100.64	107.17
23	c	6026	CLA	C3B-C2B-C1B	-5.50	100.68	107.17
23	B	1024	CLA	CAC-C3C-C4C	5.49	131.94	124.79
23	b	6024	CLA	CAC-C3C-C4C	5.49	131.93	124.79
31	V	1041	HEM	C4D-ND-C1D	5.49	111.71	105.21
31	v	6041	HEM	C4D-ND-C1D	5.48	111.70	105.21
31	e	6040	HEM	C4D-ND-C1D	5.47	111.68	105.21
31	E	1040	HEM	C4D-ND-C1D	5.45	111.66	105.21
23	a	6007	CLA	C3B-C2B-C1B	-5.45	100.75	107.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	b	6015	CLA	CAA-C2A-C1A	-5.44	94.14	111.97
23	B	1015	CLA	CAA-C2A-C1A	-5.44	94.14	111.97
23	A	1007	CLA	C3B-C2B-C1B	-5.43	100.77	107.17
24	d	6038	PHO	C3D-C4D-ND	5.41	114.64	107.71
24	A	1038	PHO	C3D-C4D-ND	5.40	114.64	107.71
26	K	1051	BCR	C33-C5-C6	-5.36	118.64	124.48
24	A	1039	PHO	C4D-ND-C1D	-5.35	102.47	108.87
26	d	6050	BCR	C11-C10-C9	-5.35	119.78	127.28
26	D	1050	BCR	C11-C10-C9	-5.33	119.80	127.28
26	T	6046	BCR	C28-C27-C26	-5.33	104.55	114.06
24	a	6039	PHO	C4D-ND-C1D	-5.33	102.49	108.87
26	k	6051	BCR	C33-C5-C6	-5.32	118.67	124.48
24	d	6038	PHO	C4D-ND-C1D	-5.31	102.51	108.87
26	B	1047	BCR	C11-C12-C13	5.30	140.90	126.36
24	A	1038	PHO	C4D-ND-C1D	-5.30	102.52	108.87
24	d	6038	PHO	OBD-CAD-C3D	-5.30	119.63	127.89
24	A	1038	PHO	OBD-CAD-C3D	-5.30	119.63	127.89
26	b	6047	BCR	C11-C12-C13	5.29	140.86	126.36
26	K	1051	BCR	C15-C14-C13	-5.28	119.88	127.28
23	B	1010	CLA	O1D-CGD-CBD	-5.27	114.12	124.52
23	b	6022	CLA	C1C-C2C-C3C	-5.25	101.45	106.98
26	T	6046	BCR	C15-C14-C13	-5.25	119.91	127.28
26	k	6051	BCR	C15-C14-C13	-5.25	119.92	127.28
23	b	6010	CLA	O1D-CGD-CBD	-5.24	114.17	124.52
26	h	6049	BCR	C15-C14-C13	-5.24	119.92	127.28
23	B	1022	CLA	C1C-C2C-C3C	-5.23	101.48	106.98
26	z	6053	BCR	C11-C10-C9	-5.22	119.96	127.28
26	B	1045	BCR	C11-C10-C9	-5.21	119.97	127.28
26	H	1049	BCR	C11-C10-C9	-5.21	119.97	127.28
26	H	1049	BCR	C15-C14-C13	-5.21	119.97	127.28
26	b	6045	BCR	C11-C10-C9	-5.21	119.97	127.28
26	h	6049	BCR	C11-C10-C9	-5.20	119.98	127.28
26	C	1054	BCR	C15-C14-C13	-5.20	119.98	127.28
26	c	6054	BCR	C15-C14-C13	-5.20	119.98	127.28
26	k	6052	BCR	C11-C10-C9	-5.20	119.99	127.28
26	t	1046	BCR	C11-C10-C9	-5.20	119.99	127.28
23	b	6015	CLA	O1D-CGD-CBD	-5.20	114.27	124.52
26	K	1052	BCR	C15-C14-C13	-5.19	120.00	127.28
23	B	1019	CLA	C3C-C4C-NC	5.18	117.07	110.43
23	B	1015	CLA	O1D-CGD-CBD	-5.18	114.30	124.52
26	B	1045	BCR	C15-C14-C13	-5.18	120.02	127.28
26	K	1052	BCR	C11-C10-C9	-5.18	120.02	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Z	1053	BCR	C11-C10-C9	-5.18	120.02	127.28
26	Z	1053	BCR	C15-C14-C13	-5.18	120.02	127.28
26	k	6052	BCR	C15-C14-C13	-5.17	120.02	127.28
26	t	1046	BCR	C15-C14-C13	-5.17	120.02	127.28
26	b	6045	BCR	C15-C14-C13	-5.17	120.03	127.28
26	z	6053	BCR	C15-C14-C13	-5.17	120.03	127.28
23	b	6019	CLA	C3C-C4C-NC	5.17	117.05	110.43
23	b	6010	CLA	CHD-C1D-ND	-5.14	117.57	124.80
26	c	6054	BCR	C33-C5-C6	-5.13	118.89	124.48
24	A	1039	PHO	C3D-C4D-ND	5.12	114.28	107.71
23	B	1010	CLA	CHD-C1D-ND	-5.12	117.59	124.80
24	a	6039	PHO	C3D-C4D-ND	5.12	114.27	107.71
26	K	1051	BCR	C20-C19-C18	5.12	140.39	126.36
26	k	6051	BCR	C20-C19-C18	5.11	140.37	126.36
26	C	1054	BCR	C33-C5-C6	-5.10	118.92	124.48
23	B	1019	CLA	C3D-C2D-C1D	-5.09	98.88	105.83
23	b	6019	CLA	C3D-C2D-C1D	-5.09	98.89	105.83
23	B	1014	CLA	O1D-CGD-CBD	-5.08	114.50	124.52
23	b	6014	CLA	O1D-CGD-CBD	-5.07	114.52	124.52
26	b	6048	BCR	C38-C26-C25	-5.05	118.97	124.48
26	d	6050	BCR	C15-C14-C13	-5.05	120.20	127.28
23	B	1016	CLA	O2D-CGD-CBD	5.04	120.05	111.23
23	b	6016	CLA	O2D-CGD-CBD	5.04	120.04	111.23
26	B	1048	BCR	C38-C26-C25	-5.04	118.99	124.48
23	b	6020	CLA	O2D-CGD-CBD	5.04	120.04	111.23
26	D	1050	BCR	C15-C14-C13	-5.04	120.22	127.28
23	C	1027	CLA	O2D-CGD-CBD	5.03	120.03	111.23
23	D	1005	CLA	O2D-CGD-CBD	5.03	120.02	111.23
23	c	6027	CLA	O2D-CGD-CBD	5.03	120.02	111.23
23	a	6006	CLA	O2D-CGD-CBD	5.03	120.02	111.23
23	d	6005	CLA	O2D-CGD-CBD	5.03	120.02	111.23
23	B	1020	CLA	O2D-CGD-CBD	5.02	120.01	111.23
23	A	1003	CLA	O2D-CGD-CBD	5.02	120.01	111.23
23	C	1028	CLA	O2D-CGD-CBD	5.02	120.00	111.23
23	D	1004	CLA	O2D-CGD-CBD	5.02	120.00	111.23
23	B	1013	CLA	O2D-CGD-CBD	5.02	120.00	111.23
23	b	6017	CLA	O2D-CGD-CBD	5.01	120.00	111.23
23	H	1017	CLA	O2D-CGD-CBD	5.01	120.00	111.23
23	a	6003	CLA	O2D-CGD-CBD	5.01	119.99	111.23
23	b	6018	CLA	O2D-CGD-CBD	5.01	119.99	111.23
23	d	6008	CLA	O2D-CGD-CBD	5.01	119.99	111.23
23	C	1033	CLA	O2D-CGD-CBD	5.01	119.99	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6028	CLA	O2D-CGD-CBD	5.01	119.99	111.23
23	B	1023	CLA	O2D-CGD-CBD	5.01	119.99	111.23
23	c	6025	CLA	O2D-CGD-CBD	5.01	119.98	111.23
23	C	1032	CLA	O2D-CGD-CBD	5.01	119.98	111.23
23	C	1036	CLA	O2D-CGD-CBD	5.01	119.98	111.23
23	b	6023	CLA	O2D-CGD-CBD	5.00	119.98	111.23
23	b	6013	CLA	O2D-CGD-CBD	5.00	119.97	111.23
23	D	1008	CLA	O2D-CGD-CBD	5.00	119.97	111.23
23	A	1006	CLA	O2D-CGD-CBD	5.00	119.97	111.23
23	B	1021	CLA	O2D-CGD-CBD	5.00	119.97	111.23
23	C	1031	CLA	O2D-CGD-CBD	5.00	119.97	111.23
23	d	6004	CLA	O2D-CGD-CBD	5.00	119.97	111.23
23	c	6036	CLA	O2D-CGD-CBD	5.00	119.96	111.23
25	d	6042	PQ9	C2-C3-C4	-4.99	114.17	122.59
23	C	1030	CLA	O2D-CGD-CBD	4.99	119.96	111.23
23	c	6033	CLA	O2D-CGD-CBD	4.99	119.96	111.23
23	c	6035	CLA	O2D-CGD-CBD	4.99	119.96	111.23
23	C	1035	CLA	O2D-CGD-CBD	4.99	119.96	111.23
23	c	6032	CLA	O2D-CGD-CBD	4.99	119.96	111.23
23	c	6030	CLA	O2D-CGD-CBD	4.99	119.95	111.23
23	B	1018	CLA	O2D-CGD-CBD	4.99	119.95	111.23
23	C	1025	CLA	O2D-CGD-CBD	4.99	119.95	111.23
23	c	6037	CLA	O2D-CGD-CBD	4.99	119.95	111.23
23	C	1037	CLA	O2D-CGD-CBD	4.98	119.94	111.23
23	c	6031	CLA	O2D-CGD-CBD	4.98	119.94	111.23
23	C	1034	CLA	O2D-CGD-CBD	4.98	119.94	111.23
23	b	6021	CLA	O2D-CGD-CBD	4.98	119.94	111.23
23	b	6012	CLA	O2D-CGD-CBD	4.98	119.94	111.23
23	C	1029	CLA	C1C-C2C-C3C	-4.98	101.74	106.98
23	c	6029	CLA	C1C-C2C-C3C	-4.98	101.74	106.98
23	b	6011	CLA	O2D-CGD-CBD	4.98	119.94	111.23
23	B	1011	CLA	O2D-CGD-CBD	4.98	119.94	111.23
23	B	1012	CLA	O2D-CGD-CBD	4.98	119.93	111.23
23	b	6015	CLA	O2D-CGD-CBD	4.96	119.90	111.23
25	D	1042	PQ9	C31-C32-C33	-4.96	116.28	127.62
23	B	1015	CLA	O2D-CGD-CBD	4.96	119.90	111.23
23	b	6019	CLA	C2B-C1B-NB	4.95	115.46	110.33
25	D	1042	PQ9	C2-C3-C4	-4.95	114.25	122.59
23	B	1019	CLA	C2B-C1B-NB	4.95	115.45	110.33
25	a	6043	PQ9	C2-C3-C4	-4.91	114.32	122.59
23	B	1015	CLA	CHD-C1D-ND	-4.91	117.90	124.80
23	b	6015	CLA	CHD-C1D-ND	-4.90	117.91	124.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	a	6043	PQ9	C11-C2-C1	4.88	120.93	116.91
23	B	1019	CLA	CHD-C4C-C3C	-4.88	117.66	124.77
23	b	6019	CLA	CHD-C4C-C3C	-4.86	117.69	124.77
23	A	1007	CLA	O1D-CGD-CBD	-4.86	114.94	124.52
26	k	6051	BCR	C11-C10-C9	-4.85	120.48	127.28
23	a	6007	CLA	O1D-CGD-CBD	-4.85	114.96	124.52
26	K	1051	BCR	C11-C10-C9	-4.85	120.48	127.28
26	T	6046	BCR	C11-C10-C9	-4.83	120.51	127.28
26	T	6046	BCR	C27-C26-C25	-4.83	116.18	122.70
23	B	1015	CLA	C3D-C2D-C1D	-4.82	99.25	105.83
26	B	1048	BCR	C33-C5-C6	-4.81	119.23	124.48
25	A	1043	PQ9	C2-C3-C4	-4.80	114.51	122.59
26	b	6048	BCR	C33-C5-C6	-4.78	119.27	124.48
23	b	6015	CLA	C3D-C2D-C1D	-4.78	99.31	105.83
25	a	6043	PQ9	C20-C18-C17	4.77	131.87	121.17
25	d	6042	PQ9	C39-C38-C37	-4.74	111.44	123.63
26	B	1048	BCR	C24-C23-C22	-4.73	119.24	126.23
24	A	1039	PHO	OBD-CAD-C3D	-4.73	120.52	127.89
23	c	6034	CLA	C3D-C2D-C1D	-4.73	99.38	105.83
26	b	6048	BCR	C24-C23-C22	-4.73	119.24	126.23
23	c	6034	CLA	O2D-CGD-CBD	4.73	119.49	111.23
26	b	6048	BCR	C11-C10-C9	-4.72	120.66	127.28
24	A	1038	PHO	OBD-CAD-CBD	-4.71	118.91	125.82
23	b	6015	CLA	C1D-ND-C4D	-4.71	103.01	106.31
24	d	6038	PHO	OBD-CAD-CBD	-4.71	118.92	125.82
26	B	1048	BCR	C11-C10-C9	-4.70	120.68	127.28
26	B	1047	BCR	C33-C5-C6	-4.70	119.35	124.48
23	C	1029	CLA	CHD-C1D-ND	-4.69	118.20	124.80
24	a	6039	PHO	OBD-CAD-C3D	-4.68	120.59	127.89
23	B	1015	CLA	C1D-ND-C4D	-4.68	103.03	106.31
26	b	6047	BCR	C33-C5-C6	-4.67	119.39	124.48
25	A	1043	PQ9	C20-C18-C17	4.66	131.63	121.17
26	K	1051	BCR	C30-C25-C26	-4.66	116.27	122.64
23	B	1022	CLA	CHD-C1D-ND	-4.66	118.25	124.80
23	b	6022	CLA	CHD-C1D-ND	-4.65	118.25	124.80
23	c	6029	CLA	CHD-C1D-ND	-4.65	118.26	124.80
26	z	6053	BCR	C7-C8-C9	4.64	133.10	126.23
26	Z	1053	BCR	C7-C8-C9	4.64	133.10	126.23
25	A	1043	PQ9	C11-C2-C1	4.63	120.73	116.91
26	t	1046	BCR	C28-C27-C26	-4.63	105.80	114.06
26	C	1054	BCR	C24-C23-C22	-4.63	119.38	126.23
23	b	6010	CLA	C3D-C2D-C1D	-4.63	99.52	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6026	CLA	C3D-C2D-C1D	-4.63	99.52	105.83
26	c	6054	BCR	C30-C25-C26	-4.62	116.33	122.64
23	B	1014	CLA	C1C-C2C-C3C	-4.62	102.13	106.98
26	k	6051	BCR	C30-C25-C26	-4.61	116.33	122.64
26	c	6054	BCR	C24-C23-C22	-4.61	119.41	126.23
23	C	1026	CLA	C3D-C2D-C1D	-4.61	99.54	105.83
23	b	6014	CLA	CHD-C1D-ND	-4.61	118.32	124.80
23	B	1010	CLA	C3D-C2D-C1D	-4.60	99.55	105.83
23	b	6010	CLA	C1C-C2C-C3C	-4.60	102.14	106.98
23	B	1014	CLA	CHD-C1D-ND	-4.59	118.34	124.80
25	d	6042	PQ9	C31-C32-C33	-4.59	117.11	127.62
23	C	1026	CLA	O1D-CGD-CBD	-4.59	115.47	124.52
23	C	1029	CLA	O2D-CGD-O1D	-4.59	114.92	123.85
23	c	6029	CLA	O2D-CGD-O1D	-4.59	114.92	123.85
23	b	6024	CLA	C3D-C2D-C1D	-4.58	99.58	105.83
26	C	1054	BCR	C30-C25-C26	-4.58	116.38	122.64
23	b	6009	CLA	C3D-C2D-C1D	-4.58	99.58	105.83
23	c	6026	CLA	O1D-CGD-CBD	-4.58	115.48	124.52
23	a	6007	CLA	C3D-C2D-C1D	-4.58	99.58	105.83
23	B	1010	CLA	C1C-C2C-C3C	-4.58	102.16	106.98
23	B	1024	CLA	C1-C2-C3	-4.58	118.70	126.20
23	b	6017	CLA	C3D-C2D-C1D	-4.57	99.59	105.83
23	b	6019	CLA	C3B-C4B-NB	4.57	114.61	110.53
23	B	1024	CLA	C3D-C2D-C1D	-4.57	99.59	105.83
23	b	6014	CLA	C1C-C2C-C3C	-4.57	102.17	106.98
23	c	6033	CLA	C3D-C2D-C1D	-4.57	99.60	105.83
23	b	6024	CLA	C1-C2-C3	-4.56	118.72	126.20
23	B	1009	CLA	C3D-C2D-C1D	-4.56	99.61	105.83
23	B	1019	CLA	C3B-C4B-NB	4.55	114.59	110.53
23	H	1017	CLA	C3D-C2D-C1D	-4.55	99.62	105.83
23	A	1007	CLA	C3D-C2D-C1D	-4.55	99.62	105.83
26	B	1047	BCR	C11-C10-C9	-4.55	120.90	127.28
23	C	1033	CLA	C3D-C2D-C1D	-4.55	99.63	105.83
23	c	6032	CLA	CHD-C1D-ND	-4.54	118.41	124.80
26	t	1046	BCR	C27-C26-C25	-4.54	116.57	122.70
23	A	1003	CLA	C3D-C2D-C1D	-4.54	99.63	105.83
23	C	1036	CLA	C3D-C2D-C1D	-4.54	99.64	105.83
23	B	1022	CLA	O2A-CGA-O1A	-4.54	112.28	123.63
23	b	6022	CLA	O2A-CGA-O1A	-4.53	112.29	123.63
23	B	1016	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
23	C	1026	CLA	C3C-C4C-NC	4.53	116.23	110.43
23	c	6031	CLA	C3D-C2D-C1D	-4.53	99.65	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	b	6047	BCR	C11-C10-C9	-4.53	120.92	127.28
23	d	6004	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
25	D	1042	PQ9	C39-C38-C37	-4.53	112.00	123.63
23	c	6036	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
23	D	1004	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
23	B	1020	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
23	C	1032	CLA	CHD-C1D-ND	-4.52	118.44	124.80
23	c	6030	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
23	b	6011	CLA	CHD-C1D-ND	-4.52	118.44	124.80
23	b	6020	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
23	b	6020	CLA	CHD-C1D-ND	-4.52	118.44	124.80
23	a	6003	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
23	b	6012	CLA	C3D-C2D-C1D	-4.52	99.67	105.83
23	C	1034	CLA	C3D-C2D-C1D	-4.52	99.67	105.83
23	c	6028	CLA	C3D-C2D-C1D	-4.52	99.67	105.83
23	b	6023	CLA	C3D-C2D-C1D	-4.52	99.67	105.83
23	C	1028	CLA	C3D-C2D-C1D	-4.52	99.67	105.83
26	d	6050	BCR	C24-C23-C22	4.51	132.91	126.23
23	B	1023	CLA	C3D-C2D-C1D	-4.51	99.67	105.83
23	c	6027	CLA	C3D-C2D-C1D	-4.51	99.68	105.83
23	B	1012	CLA	C3D-C2D-C1D	-4.51	99.68	105.83
23	b	6016	CLA	C3D-C2D-C1D	-4.51	99.68	105.83
23	b	6010	CLA	C2A-C1A-CHA	-4.51	116.04	123.87
23	C	1031	CLA	C3D-C2D-C1D	-4.51	99.68	105.83
23	C	1037	CLA	C3D-C2D-C1D	-4.51	99.68	105.83
23	B	1010	CLA	C2A-C1A-CHA	-4.51	116.04	123.87
23	c	6026	CLA	C3C-C4C-NC	4.51	116.20	110.43
23	B	1021	CLA	C3D-C2D-C1D	-4.51	99.68	105.83
23	C	1030	CLA	C3D-C2D-C1D	-4.50	99.68	105.83
23	d	6008	CLA	CHD-C1D-ND	-4.50	118.46	124.80
23	c	6037	CLA	C3D-C2D-C1D	-4.50	99.68	105.83
23	c	6034	CLA	C1-C2-C3	-4.50	118.82	126.20
23	D	1008	CLA	CHD-C1D-ND	-4.50	118.47	124.80
23	c	6025	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
23	C	1025	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
23	d	6005	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
23	b	6023	CLA	CHD-C1D-ND	-4.50	118.47	124.80
26	D	1050	BCR	C24-C23-C22	4.50	132.89	126.23
23	B	1011	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
23	C	1035	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
23	c	6035	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
23	b	6014	CLA	C3D-C2D-C1D	-4.50	99.70	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	b	6012	CLA	CHD-C1D-ND	-4.50	118.48	124.80
23	C	1032	CLA	C3D-C2D-C1D	-4.49	99.70	105.83
23	B	1014	CLA	C3D-C2D-C1D	-4.49	99.70	105.83
23	b	6024	CLA	C1C-C2C-C3C	-4.49	102.26	106.98
23	B	1011	CLA	CHD-C1D-ND	-4.49	118.48	124.80
23	B	1020	CLA	CHD-C1D-ND	-4.49	118.48	124.80
23	b	6021	CLA	C3D-C2D-C1D	-4.49	99.70	105.83
23	C	1027	CLA	CHD-C1D-ND	-4.49	118.48	124.80
23	D	1005	CLA	C3D-C2D-C1D	-4.49	99.70	105.83
23	B	1013	CLA	C3D-C2D-C1D	-4.49	99.70	105.83
23	b	6014	CLA	C3C-C4C-NC	4.49	116.18	110.43
23	a	6006	CLA	C3D-C2D-C1D	-4.49	99.71	105.83
23	C	1027	CLA	C3D-C2D-C1D	-4.49	99.71	105.83
23	b	6013	CLA	CHD-C1D-ND	-4.49	118.49	124.80
23	A	1006	CLA	C3D-C2D-C1D	-4.49	99.71	105.83
23	b	6018	CLA	CHD-C1D-ND	-4.48	118.49	124.80
23	c	6037	CLA	CHD-C1D-ND	-4.48	118.49	124.80
23	c	6033	CLA	CHD-C1D-ND	-4.48	118.49	124.80
23	C	1029	CLA	C1-C2-C3	-4.48	118.85	126.20
23	C	1033	CLA	CHD-C1D-ND	-4.48	118.49	124.80
23	c	6030	CLA	CHD-C1D-ND	-4.48	118.49	124.80
23	B	1013	CLA	CHD-C1D-ND	-4.48	118.50	124.80
23	B	1018	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
23	d	6008	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
23	B	1023	CLA	CHD-C1D-ND	-4.48	118.50	124.80
23	b	6018	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
23	D	1008	CLA	C3D-C2D-C1D	-4.47	99.72	105.83
23	b	6011	CLA	C3D-C2D-C1D	-4.47	99.73	105.83
23	b	6021	CLA	CHD-C1D-ND	-4.47	118.51	124.80
23	B	1024	CLA	C1C-C2C-C3C	-4.47	102.28	106.98
23	b	6017	CLA	CHD-C1D-ND	-4.47	118.51	124.80
23	C	1034	CLA	CHD-C1D-ND	-4.47	118.51	124.80
23	C	1037	CLA	CHD-C1D-ND	-4.47	118.51	124.80
23	B	1012	CLA	CHD-C1D-ND	-4.47	118.51	124.80
23	B	1018	CLA	CHD-C1D-ND	-4.47	118.51	124.80
23	B	1021	CLA	CHD-C1D-ND	-4.47	118.51	124.80
23	C	1030	CLA	CHD-C1D-ND	-4.47	118.52	124.80
23	C	1031	CLA	CHD-C1D-ND	-4.47	118.52	124.80
23	d	6004	CLA	CHD-C1D-ND	-4.47	118.52	124.80
23	c	6032	CLA	C3D-C2D-C1D	-4.47	99.74	105.83
23	c	6029	CLA	C1-C2-C3	-4.47	118.88	126.20
23	B	1016	CLA	CHD-C1D-ND	-4.46	118.52	124.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	C	1025	CLA	CHD-C1D-ND	-4.46	118.52	124.80
23	H	1017	CLA	CHD-C1D-ND	-4.46	118.52	124.80
23	A	1007	CLA	C1C-C2C-C3C	-4.46	102.29	106.98
23	b	6013	CLA	C3D-C2D-C1D	-4.46	99.74	105.83
23	B	1014	CLA	C3C-C4C-NC	4.46	116.14	110.43
23	a	6006	CLA	CHD-C1D-ND	-4.46	118.53	124.80
23	c	6034	CLA	CHD-C4C-C3C	-4.45	118.28	124.77
23	c	6031	CLA	CHD-C1D-ND	-4.45	118.53	124.80
23	a	6007	CLA	C1C-C2C-C3C	-4.45	102.30	106.98
23	A	1006	CLA	CHD-C1D-ND	-4.45	118.54	124.80
23	c	6025	CLA	CHD-C1D-ND	-4.45	118.54	124.80
23	c	6027	CLA	CHD-C1D-ND	-4.45	118.54	124.80
23	A	1003	CLA	CHD-C1D-ND	-4.45	118.54	124.80
23	C	1028	CLA	CHD-C1D-ND	-4.45	118.54	124.80
23	D	1005	CLA	CHD-C1D-ND	-4.45	118.54	124.80
23	a	6003	CLA	CHD-C1D-ND	-4.45	118.55	124.80
23	D	1004	CLA	CHD-C1D-ND	-4.44	118.55	124.80
23	C	1036	CLA	CHD-C1D-ND	-4.44	118.55	124.80
23	c	6035	CLA	CHD-C1D-ND	-4.44	118.55	124.80
23	C	1035	CLA	CHD-C1D-ND	-4.44	118.55	124.80
23	b	6016	CLA	CHD-C1D-ND	-4.44	118.56	124.80
23	c	6028	CLA	CHD-C1D-ND	-4.44	118.56	124.80
23	d	6005	CLA	CHD-C1D-ND	-4.43	118.57	124.80
24	d	6038	PHO	C4B-NB-C1B	-4.43	102.37	108.82
24	A	1038	PHO	C4B-NB-C1B	-4.42	102.38	108.82
23	C	1029	CLA	C3D-C2D-C1D	-4.42	99.80	105.83
23	A	1007	CLA	CHD-C4C-C3C	-4.41	118.34	124.77
23	B	1015	CLA	O2D-CGD-O1D	-4.41	115.26	123.85
23	c	6036	CLA	CHD-C1D-ND	-4.41	118.59	124.80
25	A	1043	PQ9	C14-C13-C15	4.41	122.88	115.23
23	a	6007	CLA	CHD-C4C-C3C	-4.41	118.35	124.77
23	b	6015	CLA	O2D-CGD-O1D	-4.40	115.29	123.85
23	c	6029	CLA	C3D-C2D-C1D	-4.39	99.84	105.83
23	b	6024	CLA	C3B-C4B-NB	4.38	114.44	110.53
26	A	1044	BCR	C30-C25-C24	4.38	127.53	115.65
23	B	1024	CLA	C3B-C4B-NB	4.37	114.44	110.53
23	C	1026	CLA	CHD-C4C-C3C	-4.37	118.40	124.77
26	a	6044	BCR	C30-C25-C24	4.37	127.50	115.65
23	b	6010	CLA	C3D-C4D-ND	4.36	117.07	109.99
23	c	6026	CLA	CHD-C4C-C3C	-4.36	118.42	124.77
23	B	1010	CLA	C1-C2-C3	-4.35	119.06	126.20
23	b	6010	CLA	C1-C2-C3	-4.35	119.06	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	B	1010	CLA	C3D-C4D-ND	4.35	117.06	109.99
26	C	1054	BCR	C11-C10-C9	-4.35	121.18	127.28
23	c	6034	CLA	C1C-C2C-C3C	-4.34	102.41	106.98
24	a	6039	PHO	C4B-NB-C1B	-4.34	102.50	108.82
26	D	1050	BCR	C38-C26-C25	-4.33	119.75	124.48
23	B	1009	CLA	CHD-C1D-ND	-4.33	118.70	124.80
23	C	1026	CLA	C1C-C2C-C3C	-4.33	102.43	106.98
24	A	1039	PHO	C4B-NB-C1B	-4.33	102.51	108.82
23	c	6026	CLA	C1C-C2C-C3C	-4.33	102.43	106.98
23	b	6015	CLA	CAA-C2A-C3A	-4.32	101.32	113.00
26	c	6054	BCR	C11-C10-C9	-4.32	121.22	127.28
23	B	1015	CLA	CAA-C2A-C3A	-4.32	101.33	113.00
23	C	1026	CLA	CAA-CBA-CGA	-4.31	100.96	113.21
23	B	1014	CLA	C1-C2-C3	-4.31	119.13	126.20
23	c	6026	CLA	CAA-CBA-CGA	-4.31	100.97	113.21
26	b	6047	BCR	C15-C14-C13	-4.30	121.25	127.28
23	b	6009	CLA	CHD-C1D-ND	-4.30	118.75	124.80
26	d	6050	BCR	C38-C26-C25	-4.29	119.80	124.48
26	B	1047	BCR	C15-C14-C13	-4.29	121.26	127.28
26	b	6045	BCR	C24-C23-C22	4.29	132.58	126.23
23	c	6034	CLA	CHD-C1D-ND	-4.29	118.77	124.80
23	b	6014	CLA	C1-C2-C3	-4.29	119.17	126.20
26	B	1045	BCR	C30-C25-C26	-4.29	116.78	122.64
23	B	1009	CLA	C3C-C4C-NC	4.28	115.92	110.43
23	A	1007	CLA	C3C-C4C-NC	4.28	115.92	110.43
26	b	6045	BCR	C30-C25-C26	-4.28	116.79	122.64
23	c	6026	CLA	O2A-CGA-CBA	4.27	124.86	111.83
23	C	1026	CLA	O2A-CGA-CBA	4.27	124.85	111.83
23	b	6010	CLA	C1D-ND-C4D	-4.27	103.32	106.31
26	B	1045	BCR	C24-C23-C22	4.27	132.55	126.23
23	b	6009	CLA	C3C-C4C-NC	4.26	115.89	110.43
23	B	1010	CLA	C3B-C4B-NB	4.26	114.33	110.53
23	c	6029	CLA	C2A-C1A-CHA	-4.26	116.48	123.87
23	b	6010	CLA	C3B-C4B-NB	4.25	114.33	110.53
23	b	6022	CLA	C3D-C2D-C1D	-4.25	100.03	105.83
23	B	1014	CLA	CHD-C4C-C3C	-4.25	118.58	124.77
23	c	6026	CLA	C3B-C4B-NB	4.25	114.32	110.53
23	C	1029	CLA	C2A-C1A-CHA	-4.25	116.50	123.87
26	h	6049	BCR	C24-C23-C22	-4.25	119.95	126.23
23	B	1022	CLA	CHD-C4C-C3C	-4.24	118.59	124.77
23	a	6007	CLA	C3C-C4C-NC	4.24	115.86	110.43
26	z	6053	BCR	C24-C23-C22	-4.24	119.96	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	B	1022	CLA	C2A-C1A-CHA	-4.24	116.51	123.87
23	b	6014	CLA	CHD-C4C-C3C	-4.24	118.59	124.77
23	b	6022	CLA	CHD-C4C-C3C	-4.24	118.60	124.77
23	B	1010	CLA	C1D-ND-C4D	-4.24	103.34	106.31
23	C	1026	CLA	C3B-C4B-NB	4.24	114.31	110.53
26	H	1049	BCR	C24-C23-C22	-4.23	119.97	126.23
26	Z	1053	BCR	C24-C23-C22	-4.23	119.97	126.23
26	B	1048	BCR	C15-C14-C13	-4.23	121.34	127.28
23	B	1022	CLA	C3D-C2D-C1D	-4.23	100.06	105.83
23	b	6022	CLA	C2A-C1A-CHA	-4.23	116.53	123.87
23	b	6009	CLA	C3B-C4B-NB	4.22	114.30	110.53
23	B	1009	CLA	C3B-C4B-NB	4.22	114.30	110.53
26	b	6048	BCR	C15-C14-C13	-4.21	121.38	127.28
23	b	6009	CLA	C1C-C2C-C3C	-4.21	102.56	106.98
23	c	6026	CLA	O2D-CGD-O1D	-4.21	115.66	123.85
25	A	1043	PQ9	C11-C2-C3	-4.20	118.43	123.39
26	k	6052	BCR	C24-C23-C22	-4.20	120.02	126.23
23	c	6034	CLA	C3C-C4C-NC	4.20	115.81	110.43
23	C	1026	CLA	O2D-CGD-O1D	-4.20	115.67	123.85
23	c	6034	CLA	C3B-C4B-NB	4.20	114.28	110.53
26	K	1052	BCR	C24-C23-C22	-4.19	120.03	126.23
23	B	1009	CLA	C1C-C2C-C3C	-4.19	102.57	106.98
23	a	6007	CLA	CHD-C1D-ND	-4.19	118.91	124.80
23	b	6024	CLA	CHD-C1D-ND	-4.18	118.92	124.80
23	B	1024	CLA	CHD-C1D-ND	-4.18	118.92	124.80
26	K	1051	BCR	C30-C25-C24	4.18	126.99	115.65
23	b	6013	CLA	C1C-C2C-C3C	-4.18	102.58	106.98
26	k	6051	BCR	C30-C25-C24	4.17	126.97	115.65
23	A	1007	CLA	CHD-C1D-ND	-4.17	118.93	124.80
26	B	1045	BCR	C37-C22-C23	4.17	124.45	118.09
23	b	6015	CLA	C3C-C4C-NC	4.17	115.77	110.43
26	T	6046	BCR	C33-C5-C4	4.16	122.46	113.60
26	b	6045	BCR	C37-C22-C23	4.16	124.44	118.09
23	c	6035	CLA	C1C-C2C-C3C	-4.15	102.61	106.98
23	c	6025	CLA	C1C-C2C-C3C	-4.15	102.61	106.98
26	z	6053	BCR	C33-C5-C6	-4.15	119.95	124.48
26	h	6049	BCR	C33-C5-C6	-4.15	119.96	124.48
23	B	1013	CLA	C1C-C2C-C3C	-4.15	102.62	106.98
23	C	1025	CLA	C1C-C2C-C3C	-4.14	102.62	106.98
23	B	1015	CLA	C3C-C4C-NC	4.14	115.74	110.43
23	D	1004	CLA	C1C-C2C-C3C	-4.14	102.63	106.98
23	C	1032	CLA	C1C-C2C-C3C	-4.14	102.63	106.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Z	1053	BCR	C33-C5-C6	-4.14	119.97	124.48
25	a	6043	PQ9	C11-C2-C3	-4.14	118.51	123.39
26	k	6052	BCR	C33-C5-C6	-4.14	119.97	124.48
23	D	1008	CLA	C1C-C2C-C3C	-4.13	102.63	106.98
23	c	6036	CLA	C1C-C2C-C3C	-4.13	102.63	106.98
23	B	1014	CLA	CMB-C2B-C1B	4.13	131.72	125.42
23	b	6014	CLA	CMB-C2B-C1B	4.13	131.71	125.42
26	b	6047	BCR	C24-C23-C22	-4.13	120.12	126.23
23	C	1035	CLA	C1C-C2C-C3C	-4.13	102.64	106.98
23	d	6008	CLA	C1C-C2C-C3C	-4.13	102.64	106.98
23	B	1010	CLA	O2A-CGA-O1A	-4.13	113.30	123.63
26	z	6053	BCR	C38-C26-C25	-4.13	119.98	124.48
23	B	1020	CLA	C1C-C2C-C3C	-4.13	102.64	106.98
23	b	6010	CLA	O2A-CGA-O1A	-4.12	113.31	123.63
23	c	6032	CLA	C1C-C2C-C3C	-4.12	102.64	106.98
26	Z	1053	BCR	C38-C26-C25	-4.12	119.99	124.48
26	h	6049	BCR	C38-C26-C25	-4.12	119.99	124.48
23	C	1033	CLA	C1C-C2C-C3C	-4.12	102.65	106.98
26	H	1049	BCR	C33-C5-C6	-4.12	119.99	124.48
25	a	6043	PQ9	C14-C13-C15	4.12	122.38	115.23
23	c	6030	CLA	C1C-C2C-C3C	-4.12	102.65	106.98
26	t	1046	BCR	C33-C5-C6	-4.12	119.99	124.48
23	B	1022	CLA	C3D-C4D-ND	4.11	116.67	109.99
23	B	1023	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
26	H	1049	BCR	C38-C26-C25	-4.11	120.00	124.48
26	b	6045	BCR	C33-C5-C6	-4.11	120.00	124.48
23	a	6006	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
26	K	1051	BCR	C24-C23-C22	4.11	132.31	126.23
23	b	6022	CLA	C3D-C4D-ND	4.11	116.67	109.99
23	C	1028	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
23	c	6033	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
23	c	6037	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
23	b	6020	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
23	C	1034	CLA	C3C-C4C-NC	4.11	115.69	110.43
23	C	1031	CLA	C1C-C2C-C3C	-4.10	102.66	106.98
23	C	1033	CLA	C3C-C4C-NC	4.10	115.69	110.43
23	d	6005	CLA	C1C-C2C-C3C	-4.10	102.67	106.98
26	k	6051	BCR	C24-C23-C22	4.10	132.30	126.23
23	b	6023	CLA	C1C-C2C-C3C	-4.10	102.67	106.98
23	b	6015	CLA	C3D-C4D-ND	4.10	116.65	109.99
26	B	1045	BCR	C33-C5-C6	-4.10	120.01	124.48
26	B	1045	BCR	C38-C26-C25	-4.10	120.01	124.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	B	1018	CLA	C1C-C2C-C3C	-4.10	102.67	106.98
26	b	6045	BCR	C38-C26-C25	-4.10	120.01	124.48
23	d	6004	CLA	C1C-C2C-C3C	-4.10	102.67	106.98
23	H	1017	CLA	C3C-C4C-NC	4.10	115.68	110.43
23	b	6018	CLA	C3C-C4C-NC	4.10	115.68	110.43
26	K	1052	BCR	C38-C26-C25	-4.10	120.01	124.48
23	C	1027	CLA	C1C-C2C-C3C	-4.10	102.67	106.98
23	C	1037	CLA	C1C-C2C-C3C	-4.10	102.67	106.98
23	C	1030	CLA	C3C-C4C-NC	4.10	115.68	110.43
23	c	6030	CLA	C3C-C4C-NC	4.09	115.67	110.43
23	B	1011	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
23	c	6028	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
23	C	1036	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
26	b	6045	BCR	C30-C25-C24	4.09	126.74	115.65
26	K	1052	BCR	C33-C5-C6	-4.09	120.02	124.48
23	c	6033	CLA	C3C-C4C-NC	4.09	115.67	110.43
23	H	1017	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
23	B	1012	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
23	c	6027	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
23	B	1015	CLA	C3B-C4B-NB	4.09	114.18	110.53
23	A	1003	CLA	C3C-C4C-NC	4.09	115.67	110.43
23	d	6008	CLA	C3C-C4C-NC	4.09	115.67	110.43
23	B	1019	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
23	c	6031	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
23	b	6017	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
23	B	1015	CLA	C3D-C4D-ND	4.09	116.63	109.99
23	C	1034	CLA	C1C-C2C-C3C	-4.08	102.68	106.98
23	c	6031	CLA	C3C-C4C-NC	4.08	115.66	110.43
26	B	1047	BCR	C24-C23-C22	-4.08	120.20	126.23
23	b	6016	CLA	C1C-C2C-C3C	-4.08	102.69	106.98
23	C	1025	CLA	C3C-C4C-NC	4.08	115.66	110.43
23	B	1016	CLA	C1C-C2C-C3C	-4.08	102.69	106.98
23	C	1030	CLA	C1C-C2C-C3C	-4.08	102.69	106.98
23	b	6011	CLA	C1C-C2C-C3C	-4.08	102.69	106.98
26	B	1045	BCR	C30-C25-C24	4.08	126.71	115.65
23	C	1031	CLA	C3C-C4C-NC	4.08	115.65	110.43
23	c	6025	CLA	C3B-C4B-NB	4.08	114.17	110.53
23	D	1005	CLA	C1C-C2C-C3C	-4.08	102.69	106.98
23	b	6021	CLA	C1C-C2C-C3C	-4.08	102.69	106.98
23	c	6036	CLA	C3C-C4C-NC	4.07	115.65	110.43
23	A	1003	CLA	C1C-C2C-C3C	-4.07	102.70	106.98
23	B	1018	CLA	C3C-C4C-NC	4.07	115.65	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	b	6017	CLA	C3C-C4C-NC	4.07	115.64	110.43
23	C	1037	CLA	C3C-C4C-NC	4.07	115.64	110.43
26	k	6052	BCR	C38-C26-C25	-4.07	120.04	124.48
23	b	6012	CLA	C1C-C2C-C3C	-4.07	102.70	106.98
23	B	1021	CLA	C1C-C2C-C3C	-4.07	102.70	106.98
23	C	1028	CLA	C3C-C4C-NC	4.07	115.64	110.43
23	B	1012	CLA	C3C-C4C-NC	4.06	115.64	110.43
23	B	1012	CLA	C3B-C4B-NB	4.06	114.16	110.53
23	c	6030	CLA	C3B-C4B-NB	4.06	114.16	110.53
23	d	6004	CLA	C3C-C4C-NC	4.06	115.64	110.43
23	B	1023	CLA	C3C-C4C-NC	4.06	115.64	110.43
23	d	6008	CLA	C3B-C4B-NB	4.06	114.16	110.53
23	D	1008	CLA	C3C-C4C-NC	4.06	115.63	110.43
23	b	6023	CLA	C3C-C4C-NC	4.06	115.63	110.43
23	a	6003	CLA	C3C-C4C-NC	4.06	115.63	110.43
23	b	6013	CLA	C3B-C4B-NB	4.06	114.15	110.53
23	C	1036	CLA	C3C-C4C-NC	4.06	115.63	110.43
23	b	6011	CLA	C3C-C4C-NC	4.06	115.63	110.43
23	d	6004	CLA	C1D-ND-C4D	-4.06	103.47	106.31
23	B	1020	CLA	C3C-C4C-NC	4.06	115.63	110.43
23	C	1035	CLA	C3C-C4C-NC	4.06	115.63	110.43
23	A	1006	CLA	C1C-C2C-C3C	-4.06	102.71	106.98
23	b	6018	CLA	C1C-C2C-C3C	-4.06	102.71	106.98
23	a	6003	CLA	C1C-C2C-C3C	-4.06	102.71	106.98
23	b	6015	CLA	C3B-C4B-NB	4.06	114.15	110.53
23	C	1033	CLA	C3B-C4B-NB	4.05	114.15	110.53
23	D	1008	CLA	C3B-C4B-NB	4.05	114.15	110.53
23	a	6006	CLA	C3B-C4B-NB	4.05	114.15	110.53
23	D	1004	CLA	C3C-C4C-NC	4.05	115.62	110.43
23	a	6006	CLA	C3C-C4C-NC	4.05	115.62	110.43
23	A	1006	CLA	C3B-C4B-NB	4.05	114.14	110.53
23	B	1021	CLA	C3C-C4C-NC	4.05	115.62	110.43
23	b	6021	CLA	C3C-C4C-NC	4.05	115.62	110.43
23	b	6019	CLA	C1C-C2C-C3C	-4.05	102.72	106.98
23	C	1029	CLA	C3B-C4B-NB	4.05	114.14	110.53
23	c	6033	CLA	C3B-C4B-NB	4.05	114.14	110.53
23	b	6012	CLA	C3C-C4C-NC	4.05	115.61	110.43
23	c	6028	CLA	C3C-C4C-NC	4.05	115.61	110.43
23	B	1016	CLA	C3C-C4C-NC	4.05	115.61	110.43
23	B	1013	CLA	C3C-C4C-NC	4.04	115.61	110.43
23	C	1032	CLA	C3C-C4C-NC	4.04	115.61	110.43
23	c	6037	CLA	C3C-C4C-NC	4.04	115.61	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	C	1030	CLA	C3B-C4B-NB	4.04	114.14	110.53
23	C	1037	CLA	C3B-C4B-NB	4.04	114.14	110.53
23	b	6020	CLA	C3C-C4C-NC	4.04	115.61	110.43
23	C	1027	CLA	C3C-C4C-NC	4.04	115.61	110.43
23	c	6027	CLA	C3C-C4C-NC	4.04	115.61	110.43
23	c	6032	CLA	C1D-ND-C4D	-4.04	103.48	106.31
26	A	1044	BCR	C28-C27-C26	-4.04	106.85	114.06
23	c	6029	CLA	C3B-C4B-NB	4.04	114.13	110.53
23	c	6025	CLA	C3C-C4C-NC	4.04	115.60	110.43
23	C	1025	CLA	C3B-C4B-NB	4.03	114.13	110.53
23	c	6035	CLA	C3C-C4C-NC	4.03	115.60	110.43
23	C	1031	CLA	C3B-C4B-NB	4.03	114.13	110.53
23	b	6020	CLA	C3B-C4B-NB	4.03	114.13	110.53
23	c	6037	CLA	C3B-C4B-NB	4.03	114.13	110.53
29	D	1062	MGE	O2G-C1B-C2B	4.03	120.20	111.48
23	b	6016	CLA	C3C-C4C-NC	4.03	115.59	110.43
23	A	1007	CLA	C3B-C4B-NB	4.03	114.12	110.53
23	D	1005	CLA	C3C-C4C-NC	4.03	115.59	110.43
26	a	6044	BCR	C28-C27-C26	-4.03	106.88	114.06
29	L	1061	MGE	O2G-C1B-C2B	4.03	120.19	111.48
29	d	6061	MGE	O2G-C1B-C2B	4.03	120.19	111.48
23	B	1023	CLA	C3B-C4B-NB	4.02	114.12	110.53
23	A	1006	CLA	C3C-C4C-NC	4.02	115.59	110.43
23	B	1011	CLA	C3C-C4C-NC	4.02	115.59	110.43
23	b	6013	CLA	C3C-C4C-NC	4.02	115.58	110.43
23	d	6005	CLA	C3B-C4B-NB	4.02	114.12	110.53
23	B	1022	CLA	C1-C2-C3	-4.02	119.61	126.20
23	b	6012	CLA	C3B-C4B-NB	4.02	114.12	110.53
23	B	1013	CLA	C3B-C4B-NB	4.02	114.12	110.53
23	C	1033	CLA	C1D-ND-C4D	-4.02	103.49	106.31
23	c	6032	CLA	C3C-C4C-NC	4.02	115.58	110.43
29	B	1060	MGE	O2G-C1B-C2B	4.02	120.17	111.48
30	H	1058	DGD	O2G-C1B-C2B	4.02	120.17	111.48
23	A	1003	CLA	C3B-C4B-NB	4.02	114.11	110.53
23	C	1032	CLA	C1D-ND-C4D	-4.01	103.50	106.31
30	C	1056	DGD	O2G-C1B-C2B	4.01	120.16	111.48
29	b	6060	MGE	O2G-C1B-C2B	4.01	120.16	111.48
23	H	1017	CLA	C3B-C4B-NB	4.01	114.11	110.53
23	b	6022	CLA	C1-C2-C3	-4.01	119.62	126.20
23	b	6018	CLA	C1D-ND-C4D	-4.01	103.50	106.31
23	a	6007	CLA	C3B-C4B-NB	4.01	114.11	110.53
23	b	6023	CLA	C3B-C4B-NB	4.01	114.11	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	b	6021	CLA	C1D-ND-C4D	-4.01	103.50	106.31
23	d	6008	CLA	C1D-ND-C4D	-4.01	103.50	106.31
29	d	6062	MGE	O2G-C1B-C2B	4.01	120.15	111.48
23	c	6035	CLA	C3B-C4B-NB	4.01	114.11	110.53
29	J	1059	MGE	O2G-C1B-C2B	4.01	120.15	111.48
30	h	6058	DGD	O2G-C1B-C2B	4.01	120.15	111.48
23	B	1020	CLA	C3B-C4B-NB	4.01	114.11	110.53
23	C	1036	CLA	C3B-C4B-NB	4.01	114.11	110.53
27	A	1063	LHG	O7-C7-C8	4.00	120.14	111.48
30	c	6055	DGD	O2G-C1B-C2B	4.00	120.14	111.48
23	b	6023	CLA	C1D-ND-C4D	-4.00	103.50	106.31
23	B	1019	CLA	C2A-C1A-CHA	-4.00	116.92	123.87
30	c	6056	DGD	O2G-C1B-C2B	4.00	120.14	111.48
23	c	6032	CLA	C3B-C4B-NB	4.00	114.10	110.53
23	b	6017	CLA	C3B-C4B-NB	4.00	114.10	110.53
27	a	6063	LHG	O7-C7-C8	4.00	120.14	111.48
23	c	6031	CLA	C3B-C4B-NB	4.00	114.10	110.53
30	C	1055	DGD	O2G-C1B-C2B	4.00	120.13	111.48
23	B	1012	CLA	C1D-ND-C4D	-4.00	103.51	106.31
23	b	6020	CLA	C1D-ND-C4D	-4.00	103.51	106.31
23	c	6027	CLA	C1D-ND-C4D	-4.00	103.51	106.31
23	C	1035	CLA	C3B-C4B-NB	4.00	114.10	110.53
23	D	1005	CLA	C3B-C4B-NB	4.00	114.10	110.53
23	C	1032	CLA	C3B-C4B-NB	4.00	114.10	110.53
23	D	1004	CLA	C3B-C4B-NB	4.00	114.10	110.53
23	b	6019	CLA	C2A-C1A-CHA	-4.00	116.93	123.87
23	c	6037	CLA	C1D-ND-C4D	-4.00	103.51	106.31
29	d	6059	MGE	O2G-C1B-C2B	4.00	120.13	111.48
23	a	6003	CLA	C3B-C4B-NB	4.00	114.10	110.53
30	C	1057	DGD	O2G-C1B-C2B	4.00	120.13	111.48
23	C	1034	CLA	C3B-C4B-NB	4.00	114.10	110.53
23	d	6004	CLA	C3B-C4B-NB	4.00	114.10	110.53
23	d	6005	CLA	C3C-C4C-NC	3.99	115.55	110.43
23	b	6011	CLA	C1D-ND-C4D	-3.99	103.51	106.31
23	B	1016	CLA	C3B-C4B-NB	3.99	114.09	110.53
23	C	1027	CLA	C3B-C4B-NB	3.99	114.09	110.53
23	B	1018	CLA	C1D-ND-C4D	-3.99	103.51	106.31
23	D	1004	CLA	C1D-ND-C4D	-3.99	103.51	106.31
23	c	6027	CLA	C3B-C4B-NB	3.99	114.09	110.53
23	B	1023	CLA	C1D-ND-C4D	-3.99	103.51	106.31
30	c	6057	DGD	O2G-C1B-C2B	3.99	120.11	111.48
23	c	6026	CLA	O2A-CGA-O1A	-3.99	113.66	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	b	6010	CLA	O2D-CGD-O1D	-3.99	116.09	123.85
23	D	1008	CLA	C1D-ND-C4D	-3.98	103.52	106.31
23	c	6034	CLA	C1D-ND-C4D	-3.98	103.52	106.31
23	B	1010	CLA	O2D-CGD-O1D	-3.98	116.09	123.85
23	B	1021	CLA	C1D-ND-C4D	-3.98	103.52	106.31
23	b	6013	CLA	C1D-ND-C4D	-3.98	103.52	106.31
23	b	6024	CLA	O2D-CGD-O1D	-3.98	116.10	123.85
23	b	6016	CLA	C3B-C4B-NB	3.98	114.08	110.53
23	c	6033	CLA	C1D-ND-C4D	-3.98	103.52	106.31
23	C	1026	CLA	O2A-CGA-O1A	-3.98	113.68	123.63
23	b	6012	CLA	C1D-ND-C4D	-3.97	103.52	106.31
23	c	6035	CLA	C1D-ND-C4D	-3.97	103.52	106.31
23	c	6028	CLA	C3B-C4B-NB	3.97	114.08	110.53
23	B	1011	CLA	C1D-ND-C4D	-3.97	103.53	106.31
23	B	1024	CLA	O2D-CGD-O1D	-3.97	116.12	123.85
23	C	1028	CLA	C3B-C4B-NB	3.97	114.08	110.53
23	c	6036	CLA	C3B-C4B-NB	3.97	114.08	110.53
23	B	1015	CLA	C1C-C2C-C3C	-3.97	102.81	106.98
23	C	1037	CLA	C1D-ND-C4D	-3.97	103.53	106.31
23	B	1020	CLA	C1D-ND-C4D	-3.96	103.53	106.31
23	b	6015	CLA	C1C-C2C-C3C	-3.96	102.81	106.98
23	C	1031	CLA	C1D-ND-C4D	-3.96	103.53	106.31
23	C	1029	CLA	C3D-C4D-ND	3.96	116.43	109.99
23	C	1034	CLA	C1D-ND-C4D	-3.96	103.53	106.31
23	b	6021	CLA	C3B-C4B-NB	3.96	114.06	110.53
23	b	6022	CLA	C3C-C4C-NC	3.96	115.50	110.43
23	b	6009	CLA	CHD-C4C-C3C	-3.95	119.01	124.77
23	B	1022	CLA	C3C-C4C-NC	3.95	115.49	110.43
23	B	1016	CLA	C1D-ND-C4D	-3.95	103.54	106.31
23	a	6003	CLA	C1D-ND-C4D	-3.95	103.54	106.31
23	B	1018	CLA	C3B-C4B-NB	3.95	114.06	110.53
23	B	1021	CLA	C3B-C4B-NB	3.95	114.06	110.53
23	B	1013	CLA	C1D-ND-C4D	-3.95	103.54	106.31
23	B	1009	CLA	CHD-C4C-C3C	-3.95	119.01	124.77
23	B	1015	CLA	CHD-C4C-C3C	-3.95	119.02	124.77
23	c	6030	CLA	C1D-ND-C4D	-3.95	103.54	106.31
23	C	1027	CLA	C1D-ND-C4D	-3.94	103.55	106.31
23	H	1017	CLA	C1D-ND-C4D	-3.94	103.55	106.31
23	C	1029	CLA	C3C-C4C-NC	3.94	115.48	110.43
23	c	6029	CLA	C3D-C4D-ND	3.94	116.39	109.99
23	c	6029	CLA	C3C-C4C-NC	3.94	115.48	110.43
23	C	1030	CLA	C1D-ND-C4D	-3.94	103.55	106.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	b	6017	CLA	C1D-ND-C4D	-3.94	103.55	106.31
26	k	6051	BCR	C37-C22-C23	3.94	124.10	118.09
26	T	6046	BCR	C38-C26-C27	3.94	121.99	113.60
23	b	6011	CLA	C3B-C4B-NB	3.94	114.04	110.53
23	C	1036	CLA	C1D-ND-C4D	-3.94	103.55	106.31
23	b	6015	CLA	CHD-C4C-C3C	-3.93	119.04	124.77
26	K	1051	BCR	C37-C22-C23	3.93	124.09	118.09
23	B	1011	CLA	C3B-C4B-NB	3.93	114.04	110.53
26	D	1050	BCR	C30-C25-C26	-3.93	117.27	122.64
23	A	1003	CLA	C1D-ND-C4D	-3.93	103.56	106.31
23	b	6016	CLA	C1D-ND-C4D	-3.93	103.56	106.31
23	C	1029	CLA	CHD-C4C-C3C	-3.92	119.06	124.77
23	C	1028	CLA	C1D-ND-C4D	-3.92	103.56	106.31
26	d	6050	BCR	C30-C25-C26	-3.92	117.28	122.64
23	D	1005	CLA	C1D-ND-C4D	-3.92	103.56	106.31
23	c	6031	CLA	C1D-ND-C4D	-3.92	103.56	106.31
23	c	6029	CLA	CHD-C4C-C3C	-3.92	119.06	124.77
23	c	6037	CLA	C3D-C4D-ND	3.91	116.35	109.99
23	C	1035	CLA	C1D-ND-C4D	-3.91	103.57	106.31
23	a	6003	CLA	C3D-C4D-ND	3.91	116.34	109.99
23	b	6018	CLA	C3D-C4D-ND	3.91	116.34	109.99
25	d	6042	PQ9	C26-C27-C28	-3.91	118.68	127.62
23	C	1025	CLA	C1D-ND-C4D	-3.91	103.57	106.31
23	B	1024	CLA	C3C-C4C-NC	3.90	115.43	110.43
23	b	6018	CLA	C3B-C4B-NB	3.90	114.01	110.53
26	b	6047	BCR	C38-C26-C27	3.90	121.92	113.60
23	a	6006	CLA	C1D-ND-C4D	-3.90	103.58	106.31
23	A	1006	CLA	C1D-ND-C4D	-3.90	103.58	106.31
23	c	6025	CLA	C1D-ND-C4D	-3.90	103.58	106.31
23	C	1037	CLA	C3D-C4D-ND	3.90	116.32	109.99
23	b	6024	CLA	C3C-C4C-NC	3.90	115.42	110.43
23	A	1003	CLA	C3D-C4D-ND	3.89	116.32	109.99
23	B	1012	CLA	C3D-C4D-ND	3.89	116.32	109.99
23	B	1018	CLA	C3D-C4D-ND	3.89	116.32	109.99
23	C	1031	CLA	C3D-C4D-ND	3.89	116.32	109.99
23	B	1021	CLA	C3D-C4D-ND	3.89	116.31	109.99
23	b	6012	CLA	C3D-C4D-ND	3.89	116.31	109.99
23	b	6021	CLA	C3D-C4D-ND	3.89	116.31	109.99
23	b	6020	CLA	C3D-C4D-ND	3.89	116.31	109.99
23	b	6023	CLA	C3D-C4D-ND	3.89	116.31	109.99
26	B	1047	BCR	C38-C26-C27	3.89	121.89	113.60
23	c	6031	CLA	C3D-C4D-ND	3.89	116.31	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6028	CLA	C1D-ND-C4D	-3.89	103.58	106.31
23	B	1023	CLA	C3D-C4D-ND	3.89	116.30	109.99
23	d	6004	CLA	C3D-C4D-ND	3.88	116.30	109.99
23	d	6008	CLA	C3D-C4D-ND	3.88	116.30	109.99
23	d	6005	CLA	C1D-ND-C4D	-3.88	103.59	106.31
23	D	1005	CLA	C3D-C4D-ND	3.88	116.30	109.99
23	b	6016	CLA	C3D-C4D-ND	3.88	116.29	109.99
23	c	6027	CLA	C3D-C4D-ND	3.88	116.29	109.99
26	t	1046	BCR	C38-C26-C27	3.88	121.86	113.60
23	C	1033	CLA	C3D-C4D-ND	3.88	116.29	109.99
23	B	1016	CLA	C3D-C4D-ND	3.87	116.28	109.99
23	B	1020	CLA	C3D-C4D-ND	3.87	116.28	109.99
23	C	1034	CLA	C3D-C4D-ND	3.87	116.28	109.99
23	a	6006	CLA	C3D-C4D-ND	3.87	116.28	109.99
23	A	1006	CLA	C3D-C4D-ND	3.87	116.28	109.99
23	c	6032	CLA	C3D-C4D-ND	3.87	116.28	109.99
23	B	1011	CLA	C3D-C4D-ND	3.87	116.27	109.99
23	D	1008	CLA	C3D-C4D-ND	3.87	116.27	109.99
23	b	6024	CLA	CMC-C2C-C1C	3.87	131.08	125.03
23	C	1032	CLA	C3D-C4D-ND	3.87	116.27	109.99
23	b	6017	CLA	C3D-C4D-ND	3.87	116.27	109.99
23	H	1017	CLA	C3D-C4D-ND	3.87	116.27	109.99
23	B	1024	CLA	O1D-CGD-CBD	-3.86	116.90	124.52
23	C	1027	CLA	C3D-C4D-ND	3.86	116.27	109.99
23	c	6033	CLA	C3D-C4D-ND	3.86	116.27	109.99
23	c	6036	CLA	C1D-ND-C4D	-3.86	103.60	106.31
26	d	6050	BCR	C30-C25-C24	3.86	126.12	115.65
26	c	6054	BCR	C38-C26-C25	-3.86	120.27	124.48
23	b	6024	CLA	O1D-CGD-CBD	-3.86	116.91	124.52
23	b	6013	CLA	CHD-C4C-C3C	-3.86	119.15	124.77
23	D	1004	CLA	C3D-C4D-ND	3.86	116.26	109.99
23	B	1024	CLA	CMC-C2C-C1C	3.86	131.06	125.03
23	c	6035	CLA	C3D-C4D-ND	3.86	116.26	109.99
23	C	1034	CLA	CHD-C4C-C3C	-3.86	119.15	124.77
23	C	1035	CLA	C3D-C4D-ND	3.86	116.26	109.99
26	D	1050	BCR	C30-C25-C24	3.85	126.11	115.65
23	C	1025	CLA	CHD-C4C-C3C	-3.85	119.15	124.77
23	C	1036	CLA	C3D-C4D-ND	3.85	116.25	109.99
23	c	6030	CLA	CHD-C4C-C3C	-3.85	119.16	124.77
23	a	6003	CLA	CHD-C4C-C3C	-3.85	119.16	124.77
26	a	6044	BCR	C15-C14-C13	-3.85	121.88	127.28
23	C	1025	CLA	C3D-C4D-ND	3.85	116.25	109.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	a	6044	BCR	C24-C23-C22	3.85	131.93	126.23
23	C	1028	CLA	C3D-C4D-ND	3.85	116.24	109.99
23	C	1030	CLA	C3D-C4D-ND	3.85	116.24	109.99
23	d	6005	CLA	C3D-C4D-ND	3.85	116.24	109.99
23	B	1012	CLA	CHD-C4C-C3C	-3.85	119.17	124.77
23	B	1013	CLA	C3D-C4D-ND	3.85	116.24	109.99
23	A	1003	CLA	CHD-C4C-C3C	-3.85	119.17	124.77
23	B	1019	CLA	CMA-C3A-C4A	-3.84	101.44	111.77
23	C	1033	CLA	CHD-C4C-C3C	-3.84	119.17	124.77
23	b	6011	CLA	C3D-C4D-ND	3.84	116.23	109.99
23	c	6028	CLA	C3D-C4D-ND	3.84	116.23	109.99
23	C	1030	CLA	CHD-C4C-C3C	-3.84	119.17	124.77
23	c	6025	CLA	CHD-C4C-C3C	-3.84	119.17	124.77
23	b	6019	CLA	CMA-C3A-C4A	-3.84	101.45	111.77
23	C	1037	CLA	CHD-C4C-C3C	-3.84	119.17	124.77
23	c	6025	CLA	C3D-C4D-ND	3.84	116.23	109.99
26	B	1047	BCR	C38-C26-C25	-3.84	120.30	124.48
23	c	6030	CLA	C3D-C4D-ND	3.84	116.23	109.99
23	c	6031	CLA	CHD-C4C-C3C	-3.84	119.18	124.77
26	C	1054	BCR	C38-C26-C25	-3.84	120.30	124.48
23	b	6022	CLA	CMB-C2B-C1B	3.84	131.26	125.42
23	b	6017	CLA	CHD-C4C-C3C	-3.83	119.18	124.77
23	c	6026	CLA	CHD-C1D-ND	-3.83	119.41	124.80
26	A	1044	BCR	C3-C4-C5	-3.83	107.22	114.06
23	b	6013	CLA	C3D-C4D-ND	3.83	116.21	109.99
23	B	1023	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
26	A	1044	BCR	C24-C23-C22	3.83	131.90	126.23
23	B	1013	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
23	B	1016	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
23	B	1022	CLA	CMB-C2B-C1B	3.83	131.25	125.42
23	C	1031	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
25	a	6043	PQ9	C14-C13-C12	-3.83	113.80	123.63
23	H	1017	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
23	a	6006	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
23	b	6011	CLA	CHD-C4C-C3C	-3.83	119.20	124.77
26	b	6047	BCR	C38-C26-C25	-3.82	120.31	124.48
23	D	1004	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
26	a	6044	BCR	C3-C4-C5	-3.82	107.24	114.06
23	b	6018	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
23	c	6037	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
23	C	1028	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
23	c	6027	CLA	CHD-C4C-C3C	-3.82	119.20	124.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6036	CLA	C3D-C4D-ND	3.82	116.19	109.99
23	B	1011	CLA	CHD-C4C-C3C	-3.82	119.21	124.77
26	A	1044	BCR	C15-C14-C13	-3.82	121.93	127.28
23	c	6036	CLA	CHD-C4C-C3C	-3.81	119.21	124.77
23	d	6004	CLA	CHD-C4C-C3C	-3.81	119.21	124.77
23	C	1036	CLA	CHD-C4C-C3C	-3.81	119.21	124.77
23	B	1018	CLA	CHD-C4C-C3C	-3.81	119.21	124.77
23	c	6033	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
23	B	1021	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
23	b	6009	CLA	C3D-C4D-ND	3.81	116.18	109.99
23	b	6023	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
23	B	1020	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
23	C	1027	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
23	D	1008	CLA	CHD-C4C-C3C	-3.80	119.23	124.77
23	b	6012	CLA	CHD-C4C-C3C	-3.80	119.23	124.77
23	A	1006	CLA	CHD-C4C-C3C	-3.80	119.23	124.77
23	c	6035	CLA	CHD-C4C-C3C	-3.80	119.23	124.77
23	c	6028	CLA	CHD-C4C-C3C	-3.80	119.23	124.77
23	D	1005	CLA	CHD-C4C-C3C	-3.80	119.23	124.77
23	b	6016	CLA	CHD-C4C-C3C	-3.80	119.23	124.77
23	C	1035	CLA	CHD-C4C-C3C	-3.80	119.23	124.77
23	C	1026	CLA	CHD-C1D-ND	-3.80	119.45	124.80
23	c	6032	CLA	CHD-C4C-C3C	-3.80	119.23	124.77
23	B	1009	CLA	C3D-C4D-ND	3.80	116.16	109.99
23	C	1032	CLA	CHD-C4C-C3C	-3.80	119.24	124.77
26	K	1051	BCR	C38-C26-C25	-3.79	120.35	124.48
23	b	6021	CLA	CHD-C4C-C3C	-3.79	119.25	124.77
23	b	6022	CLA	C1D-ND-C4D	-3.79	103.65	106.31
23	d	6008	CLA	CHD-C4C-C3C	-3.79	119.25	124.77
23	B	1024	CLA	C1D-ND-C4D	-3.78	103.66	106.31
23	b	6010	CLA	C3C-C4C-NC	3.78	115.28	110.43
23	b	6020	CLA	CHD-C4C-C3C	-3.78	119.26	124.77
23	b	6024	CLA	C1D-ND-C4D	-3.78	103.66	106.31
26	k	6051	BCR	C38-C26-C25	-3.78	120.36	124.48
23	B	1010	CLA	C3C-C4C-NC	3.78	115.27	110.43
23	B	1009	CLA	C1D-ND-C4D	-3.77	103.67	106.31
23	a	6007	CLA	O2D-CGD-O1D	-3.77	116.51	123.85
25	D	1042	PQ9	C26-C27-C28	-3.77	119.00	127.62
23	d	6005	CLA	CHD-C4C-C3C	-3.76	119.28	124.77
23	A	1007	CLA	O2D-CGD-CBD	3.76	117.81	111.23
23	a	6007	CLA	O2D-CGD-CBD	3.76	117.81	111.23
25	D	1042	PQ9	C40-C38-C37	3.76	129.61	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	B	1022	CLA	C1D-ND-C4D	-3.76	103.67	106.31
23	A	1007	CLA	O2D-CGD-O1D	-3.76	116.53	123.85
23	B	1019	CLA	O1D-CGD-CBD	-3.76	117.11	124.52
23	b	6019	CLA	O1D-CGD-CBD	-3.75	117.13	124.52
23	b	6009	CLA	C1D-ND-C4D	-3.74	103.69	106.31
23	b	6015	CLA	C2A-C1A-CHA	-3.74	117.38	123.87
23	A	1007	CLA	C3D-C4D-ND	3.73	116.05	109.99
23	a	6007	CLA	C3D-C4D-ND	3.73	116.05	109.99
23	B	1015	CLA	C2A-C1A-CHA	-3.73	117.40	123.87
23	c	6034	CLA	C3D-C4D-ND	3.72	116.04	109.99
25	D	1042	PQ9	C36-C37-C38	3.72	136.15	127.62
25	a	6043	PQ9	C19-C18-C17	-3.72	114.08	123.63
26	A	1044	BCR	C1-C6-C5	-3.71	117.56	122.64
26	T	6046	BCR	C3-C4-C5	-3.70	107.46	114.06
23	b	6024	CLA	C3D-C4D-ND	3.70	116.00	109.99
23	B	1024	CLA	C3D-C4D-ND	3.70	116.00	109.99
26	a	6044	BCR	C1-C6-C5	-3.68	117.61	122.64
26	c	6054	BCR	C38-C26-C27	3.68	121.44	113.60
26	C	1054	BCR	C38-C26-C27	3.67	121.41	113.60
23	B	1014	CLA	C3D-C4D-ND	3.66	115.94	109.99
23	b	6014	CLA	C3D-C4D-ND	3.66	115.94	109.99
25	D	1042	PQ9	C11-C2-C3	-3.66	119.07	123.39
25	A	1043	PQ9	C19-C18-C17	-3.66	114.23	123.63
24	a	6039	PHO	OBD-CAD-CBD	-3.66	120.45	125.82
26	b	6047	BCR	C27-C26-C25	-3.65	117.77	122.70
25	A	1043	PQ9	C14-C13-C12	-3.65	114.26	123.63
24	A	1039	PHO	OBD-CAD-CBD	-3.64	120.48	125.82
23	B	1015	CLA	C2D-C1D-ND	3.63	113.72	110.13
23	b	6014	CLA	O2D-CGD-O1D	-3.62	116.79	123.85
23	B	1022	CLA	CAA-C2A-C1A	-3.62	100.10	111.97
26	B	1047	BCR	C27-C26-C25	-3.62	117.82	122.70
23	B	1014	CLA	O2D-CGD-O1D	-3.62	116.81	123.85
23	b	6022	CLA	CAA-C2A-C1A	-3.62	100.12	111.97
25	d	6042	PQ9	C36-C37-C38	3.60	135.87	127.62
23	b	6019	CLA	C1D-ND-C4D	-3.59	103.79	106.31
23	B	1010	CLA	CMD-C2D-C3D	-3.59	119.47	127.69
23	b	6010	CLA	CAA-CBA-CGA	-3.59	103.03	113.21
23	b	6015	CLA	C2D-C1D-ND	3.58	113.67	110.13
25	D	1042	PQ9	C34-C33-C32	-3.58	114.43	123.63
23	b	6019	CLA	C3D-C4D-ND	3.58	115.80	109.99
23	B	1010	CLA	CAA-CBA-CGA	-3.58	103.06	113.21
23	b	6010	CLA	CMD-C2D-C3D	-3.57	119.50	127.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	B	1019	CLA	C3D-C4D-ND	3.57	115.79	109.99
23	B	1024	CLA	CHD-C4C-C3C	-3.56	119.59	124.77
23	c	6033	CLA	C2A-C1A-CHA	-3.55	117.71	123.87
23	b	6014	CLA	C1D-ND-C4D	-3.55	103.82	106.31
23	c	6035	CLA	C2A-C1A-CHA	-3.54	117.72	123.87
23	B	1019	CLA	C1D-ND-C4D	-3.54	103.83	106.31
23	a	6007	CLA	C1D-ND-C4D	-3.54	103.83	106.31
23	B	1014	CLA	O2A-CGA-O1A	-3.54	114.78	123.63
23	B	1024	CLA	CAA-C2A-C3A	-3.54	103.44	113.00
23	B	1021	CLA	C2A-C1A-CHA	-3.54	117.73	123.87
23	b	6014	CLA	O2A-CGA-O1A	-3.54	114.78	123.63
23	b	6021	CLA	C2A-C1A-CHA	-3.53	117.73	123.87
23	c	6026	CLA	C3D-C4D-ND	3.53	115.73	109.99
23	b	6019	CLA	C4C-C3C-C2C	-3.53	101.75	106.89
23	b	6024	CLA	CHD-C4C-C3C	-3.53	119.62	124.77
23	b	6024	CLA	CAA-C2A-C3A	-3.53	103.46	113.00
23	b	6019	CLA	CHD-C1D-ND	-3.53	119.83	124.80
23	C	1027	CLA	C2A-C1A-CHA	-3.53	117.74	123.87
23	c	6027	CLA	C2A-C1A-CHA	-3.53	117.74	123.87
23	C	1026	CLA	C3D-C4D-ND	3.53	115.72	109.99
23	D	1008	CLA	C2A-C1A-CHA	-3.53	117.75	123.87
23	c	6034	CLA	C2A-C1A-CHA	-3.53	117.75	123.87
23	A	1007	CLA	C2A-C1A-CHA	-3.53	117.75	123.87
23	C	1035	CLA	C2A-C1A-CHA	-3.53	117.75	123.87
23	C	1033	CLA	C2A-C1A-CHA	-3.52	117.75	123.87
23	B	1019	CLA	CAA-CBA-CGA	-3.52	103.20	113.21
23	b	6019	CLA	CAA-CBA-CGA	-3.52	103.21	113.21
23	d	6008	CLA	C2A-C1A-CHA	-3.52	117.76	123.87
23	a	6007	CLA	C2A-C1A-CHA	-3.52	117.76	123.87
23	B	1019	CLA	C4C-C3C-C2C	-3.52	101.77	106.89
23	c	6028	CLA	C2A-C1A-CHA	-3.52	117.76	123.87
23	B	1019	CLA	CHD-C1D-ND	-3.52	119.85	124.80
26	b	6047	BCR	C30-C25-C26	-3.52	117.83	122.64
23	B	1012	CLA	C2A-C1A-CHA	-3.52	117.77	123.87
23	b	6010	CLA	CHD-C4C-C3C	-3.51	119.65	124.77
23	B	1020	CLA	C2A-C1A-CHA	-3.51	117.77	123.87
23	B	1014	CLA	C1D-ND-C4D	-3.51	103.85	106.31
23	C	1028	CLA	C2A-C1A-CHA	-3.51	117.77	123.87
23	B	1010	CLA	CHD-C4C-C3C	-3.51	119.65	124.77
23	A	1007	CLA	C1D-ND-C4D	-3.51	103.85	106.31
25	D	1042	PQ9	C11-C2-C1	3.51	119.80	116.91
23	c	6037	CLA	C2A-C1A-CHA	-3.51	117.78	123.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	d	6005	CLA	C2A-C1A-CHA	-3.51	117.78	123.87
24	a	6039	PHO	C1-C2-C3	-3.51	120.45	126.20
23	C	1032	CLA	C2A-C1A-CHA	-3.51	117.78	123.87
23	C	1030	CLA	C2A-C1A-CHA	-3.50	117.78	123.87
23	B	1013	CLA	C2A-C1A-CHA	-3.50	117.79	123.87
23	b	6017	CLA	C2A-C1A-CHA	-3.50	117.79	123.87
23	C	1025	CLA	C2A-C1A-CHA	-3.50	117.79	123.87
26	B	1047	BCR	C30-C25-C26	-3.50	117.85	122.64
23	C	1037	CLA	C2A-C1A-CHA	-3.50	117.79	123.87
23	C	1031	CLA	C2A-C1A-CHA	-3.50	117.79	123.87
23	D	1004	CLA	C2A-C1A-CHA	-3.50	117.80	123.87
23	A	1003	CLA	C2A-C1A-CHA	-3.50	117.80	123.87
23	b	6012	CLA	C2A-C1A-CHA	-3.50	117.80	123.87
23	C	1036	CLA	C2A-C1A-CHA	-3.50	117.80	123.87
23	d	6004	CLA	C2A-C1A-CHA	-3.50	117.80	123.87
23	A	1006	CLA	C2A-C1A-CHA	-3.49	117.80	123.87
23	c	6030	CLA	C1-C2-C3	-3.49	120.47	126.20
23	D	1005	CLA	C2A-C1A-CHA	-3.49	117.80	123.87
23	H	1017	CLA	C2A-C1A-CHA	-3.49	117.80	123.87
23	a	6003	CLA	C2A-C1A-CHA	-3.49	117.80	123.87
23	B	1011	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
23	B	1023	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
23	c	6030	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
23	a	6006	CLA	C1-C2-C3	-3.49	120.47	126.20
23	c	6027	CLA	C1-C2-C3	-3.49	120.47	126.20
23	a	6006	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
23	B	1018	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
23	b	6020	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
23	c	6032	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
23	c	6036	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
23	C	1031	CLA	C1-C2-C3	-3.49	120.48	126.20
23	C	1034	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
23	b	6011	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
23	c	6025	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
23	b	6018	CLA	C1-C2-C3	-3.49	120.48	126.20
23	B	1016	CLA	C2A-C1A-CHA	-3.48	117.82	123.87
23	c	6037	CLA	C1-C2-C3	-3.48	120.49	126.20
23	b	6016	CLA	C2A-C1A-CHA	-3.48	117.83	123.87
23	C	1030	CLA	C1-C2-C3	-3.48	120.50	126.20
23	D	1004	CLA	C1-C2-C3	-3.48	120.50	126.20
23	c	6032	CLA	C1-C2-C3	-3.48	120.50	126.20
23	d	6008	CLA	C1-C2-C3	-3.48	120.50	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6035	CLA	C1-C2-C3	-3.48	120.50	126.20
23	d	6004	CLA	C1-C2-C3	-3.48	120.50	126.20
23	b	6013	CLA	C2A-C1A-CHA	-3.48	117.83	123.87
23	C	1027	CLA	C1-C2-C3	-3.48	120.50	126.20
23	C	1032	CLA	C1-C2-C3	-3.48	120.50	126.20
23	c	6031	CLA	C2A-C1A-CHA	-3.48	117.83	123.87
23	B	1018	CLA	C1-C2-C3	-3.48	120.50	126.20
23	b	6019	CLA	C2D-C1D-ND	3.48	113.57	110.13
23	C	1025	CLA	C1-C2-C3	-3.48	120.50	126.20
23	b	6016	CLA	C1-C2-C3	-3.48	120.50	126.20
23	c	6031	CLA	C1-C2-C3	-3.48	120.50	126.20
26	T	6046	BCR	C37-C22-C23	3.48	123.40	118.09
23	c	6028	CLA	C1-C2-C3	-3.48	120.50	126.20
23	A	1006	CLA	C1-C2-C3	-3.47	120.50	126.20
25	A	1043	PQ9	C39-C38-C37	-3.47	114.70	123.63
23	b	6011	CLA	C1-C2-C3	-3.47	120.50	126.20
24	A	1039	PHO	C1-C2-C3	-3.47	120.50	126.20
23	C	1028	CLA	C1-C2-C3	-3.47	120.51	126.20
23	B	1019	CLA	C2D-C1D-ND	3.47	113.56	110.13
23	b	6023	CLA	C2A-C1A-CHA	-3.47	117.84	123.87
23	D	1008	CLA	C1-C2-C3	-3.47	120.51	126.20
23	b	6012	CLA	C1-C2-C3	-3.47	120.51	126.20
23	B	1016	CLA	C1-C2-C3	-3.47	120.51	126.20
23	B	1020	CLA	C1-C2-C3	-3.47	120.51	126.20
23	C	1035	CLA	C1-C2-C3	-3.47	120.51	126.20
23	a	6003	CLA	C1-C2-C3	-3.47	120.51	126.20
23	c	6036	CLA	C1-C2-C3	-3.47	120.51	126.20
23	b	6018	CLA	C2A-C1A-CHA	-3.47	117.85	123.87
23	D	1005	CLA	C1-C2-C3	-3.47	120.52	126.20
23	C	1034	CLA	C1-C2-C3	-3.47	120.52	126.20
23	B	1013	CLA	C1-C2-C3	-3.47	120.52	126.20
23	C	1033	CLA	C1-C2-C3	-3.46	120.52	126.20
23	C	1037	CLA	C1-C2-C3	-3.46	120.52	126.20
23	c	6025	CLA	C1-C2-C3	-3.46	120.53	126.20
23	b	6020	CLA	C1-C2-C3	-3.46	120.53	126.20
23	b	6017	CLA	C1-C2-C3	-3.46	120.53	126.20
23	B	1021	CLA	C1-C2-C3	-3.46	120.53	126.20
23	A	1003	CLA	C1-C2-C3	-3.46	120.53	126.20
23	B	1012	CLA	C1-C2-C3	-3.46	120.53	126.20
23	c	6033	CLA	C1-C2-C3	-3.46	120.53	126.20
23	b	6013	CLA	C1-C2-C3	-3.46	120.54	126.20
23	b	6023	CLA	C1-C2-C3	-3.45	120.54	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	C	1036	CLA	C1-C2-C3	-3.45	120.54	126.20
23	B	1011	CLA	C1-C2-C3	-3.45	120.54	126.20
23	B	1023	CLA	C1-C2-C3	-3.45	120.55	126.20
23	d	6005	CLA	C1-C2-C3	-3.45	120.55	126.20
23	B	1022	CLA	C3B-C4B-NB	3.44	113.61	110.53
26	D	1050	BCR	C37-C22-C23	3.44	123.35	118.09
26	d	6050	BCR	C37-C22-C23	3.44	123.35	118.09
23	H	1017	CLA	C1-C2-C3	-3.44	120.57	126.20
25	a	6043	PQ9	C21-C20-C18	3.43	124.57	113.19
23	b	6021	CLA	C1-C2-C3	-3.43	120.57	126.20
23	b	6022	CLA	C3B-C4B-NB	3.42	113.59	110.53
23	B	1014	CLA	CMA-C3A-C4A	-3.42	102.58	111.77
23	c	6026	CLA	C1D-ND-C4D	-3.42	103.91	106.31
25	d	6042	PQ9	C14-C13-C12	-3.42	114.86	123.63
23	b	6014	CLA	CMA-C3A-C4A	-3.41	102.60	111.77
26	a	6044	BCR	C4-C5-C6	-3.41	118.10	122.70
26	B	1047	BCR	C28-C27-C26	-3.40	107.99	114.06
26	b	6047	BCR	C28-C27-C26	-3.40	107.99	114.06
26	A	1044	BCR	C11-C10-C9	-3.39	122.53	127.28
26	a	6044	BCR	C11-C10-C9	-3.38	122.54	127.28
25	A	1043	PQ9	C31-C32-C33	-3.38	119.89	127.62
26	A	1044	BCR	C4-C5-C6	-3.36	118.16	122.70
23	B	1009	CLA	C2A-C1A-CHA	-3.36	118.04	123.87
23	C	1026	CLA	C1D-ND-C4D	-3.36	103.96	106.31
23	b	6009	CLA	C2A-C1A-CHA	-3.35	118.06	123.87
23	B	1014	CLA	CHB-C4A-NA	3.32	129.19	124.40
26	B	1048	BCR	C33-C5-C4	3.31	120.65	113.60
26	t	1046	BCR	C37-C22-C23	3.30	123.13	118.09
23	b	6014	CLA	CHB-C4A-NA	3.29	129.15	124.40
26	b	6048	BCR	C33-C5-C4	3.29	120.62	113.60
25	d	6042	PQ9	C40-C38-C37	3.27	128.52	121.17
25	A	1043	PQ9	C21-C20-C18	3.27	124.03	113.19
25	a	6043	PQ9	C3-C4-C5	3.27	122.88	119.00
26	C	1054	BCR	C27-C26-C25	-3.27	118.29	122.70
26	c	6054	BCR	C27-C26-C25	-3.27	118.29	122.70
23	B	1022	CLA	CMD-C2D-C3D	-3.25	120.25	127.69
26	K	1051	BCR	C28-C27-C26	-3.23	108.29	114.06
26	k	6051	BCR	C28-C27-C26	-3.23	108.30	114.06
25	d	6042	PQ9	C19-C18-C17	-3.23	115.34	123.63
23	b	6022	CLA	CMD-C2D-C3D	-3.22	120.31	127.69
23	c	6029	CLA	O2A-CGA-O1A	-3.22	115.58	123.63
23	C	1029	CLA	O2A-CGA-O1A	-3.22	115.58	123.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6029	CLA	O2D-CGD-CBD	3.21	116.85	111.23
23	b	6015	CLA	CMB-C2B-C1B	3.21	130.31	125.42
23	C	1029	CLA	O2D-CGD-CBD	3.21	116.84	111.23
25	D	1042	PQ9	C14-C13-C12	-3.20	115.40	123.63
23	B	1015	CLA	CMB-C2B-C1B	3.20	130.29	125.42
23	b	6009	CLA	C1-C2-C3	-3.20	120.96	126.20
23	C	1029	CLA	C1D-ND-C4D	-3.19	104.07	106.31
23	B	1009	CLA	C1-C2-C3	-3.18	120.98	126.20
23	C	1026	CLA	O2D-CGD-CBD	3.16	116.75	111.23
23	b	6024	CLA	CMB-C2B-C1B	3.16	130.23	125.42
23	B	1014	CLA	CMC-C2C-C1C	3.15	129.96	125.03
23	b	6014	CLA	CMC-C2C-C1C	3.14	129.94	125.03
23	c	6034	CLA	O2D-CGD-O1D	-3.14	117.74	123.85
23	c	6026	CLA	O2D-CGD-CBD	3.14	116.71	111.23
23	B	1010	CLA	C4-C3-C5	3.14	120.67	115.23
25	A	1043	PQ9	C3-C4-C5	3.13	122.72	119.00
26	a	6044	BCR	C33-C5-C4	3.13	120.27	113.60
23	b	6010	CLA	C4-C3-C5	3.13	120.66	115.23
23	B	1024	CLA	CMB-C2B-C1B	3.13	130.18	125.42
26	a	6044	BCR	C38-C26-C25	-3.12	121.08	124.48
26	A	1044	BCR	C38-C26-C25	-3.12	121.08	124.48
26	A	1044	BCR	C33-C5-C4	3.12	120.25	113.60
23	c	6029	CLA	C1D-ND-C4D	-3.11	104.13	106.31
26	b	6045	BCR	C37-C22-C21	-3.11	117.78	122.82
26	B	1045	BCR	C37-C22-C21	-3.10	117.80	122.82
26	D	1050	BCR	C33-C5-C4	3.08	120.16	113.60
25	D	1042	PQ9	C36-C35-C33	3.08	123.38	113.19
26	d	6050	BCR	C33-C5-C4	3.07	120.14	113.60
25	a	6043	PQ9	C31-C32-C33	-3.07	120.59	127.62
25	d	6042	PQ9	C19-C18-C20	3.07	120.56	115.23
25	d	6042	PQ9	C34-C33-C32	-3.06	115.77	123.63
23	B	1024	CLA	C2A-C1A-CHA	-3.05	118.57	123.87
24	d	6038	PHO	C1-C2-C3	-3.05	121.19	126.20
24	A	1038	PHO	C1-C2-C3	-3.05	121.20	126.20
23	B	1015	CLA	C1-C2-C3	-3.05	121.20	126.20
23	b	6024	CLA	C2A-C1A-CHA	-3.05	118.58	123.87
26	b	6045	BCR	C38-C26-C27	3.05	120.09	113.60
23	a	6007	CLA	O2A-CGA-CBA	3.04	121.11	111.83
23	A	1007	CLA	O2A-CGA-CBA	3.04	121.11	111.83
26	T	6046	BCR	C29-C30-C25	-3.04	106.02	110.44
25	a	6043	PQ9	C39-C38-C37	-3.04	115.83	123.63
26	B	1045	BCR	C38-C26-C27	3.03	120.07	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	A	1007	CLA	C1-C2-C3	-3.03	121.23	126.20
23	a	6007	CLA	C1-C2-C3	-3.03	121.23	126.20
26	T	6046	BCR	C2-C1-C6	-3.03	106.04	110.44
23	b	6015	CLA	C1-C2-C3	-3.03	121.24	126.20
26	z	6053	BCR	C33-C5-C4	3.02	120.04	113.60
26	Z	1053	BCR	C38-C26-C27	3.02	120.03	113.60
26	Z	1053	BCR	C33-C5-C4	3.02	120.03	113.60
26	H	1049	BCR	C33-C5-C4	3.01	120.02	113.60
26	h	6049	BCR	C33-C5-C4	3.01	120.02	113.60
23	b	6014	CLA	C4-C3-C5	3.01	120.45	115.23
23	B	1014	CLA	C4-C3-C5	3.01	120.45	115.23
26	z	6053	BCR	C38-C26-C27	3.01	120.00	113.60
23	B	1009	CLA	CAC-C3C-C4C	3.01	128.70	124.79
25	D	1042	PQ9	C19-C18-C17	-3.00	115.92	123.63
23	b	6009	CLA	CAC-C3C-C4C	3.00	128.69	124.79
24	d	6038	PHO	CMA-C3A-C4A	-3.00	108.15	114.61
26	B	1045	BCR	C33-C5-C4	3.00	119.99	113.60
26	b	6045	BCR	C33-C5-C4	3.00	119.99	113.60
26	k	6052	BCR	C38-C26-C27	3.00	119.98	113.60
26	K	1052	BCR	C33-C5-C4	2.99	119.98	113.60
26	b	6048	BCR	C3-C4-C5	-2.99	108.72	114.06
26	k	6052	BCR	C33-C5-C4	2.99	119.97	113.60
26	B	1048	BCR	C3-C4-C5	-2.99	108.73	114.06
26	K	1052	BCR	C38-C26-C27	2.98	119.96	113.60
26	h	6049	BCR	C38-C26-C27	2.98	119.95	113.60
24	A	1038	PHO	CMA-C3A-C4A	-2.98	108.19	114.61
26	D	1050	BCR	C23-C24-C25	2.98	134.96	127.00
26	t	1046	BCR	C33-C5-C4	2.97	119.94	113.60
23	c	6034	CLA	C2D-C1D-ND	2.97	113.07	110.13
25	a	6043	PQ9	C20-C21-C22	-2.97	97.31	112.02
26	H	1049	BCR	C38-C26-C27	2.97	119.93	113.60
23	b	6022	CLA	CBC-CAC-C3C	-2.97	104.37	112.42
26	A	1044	BCR	C38-C26-C27	2.96	119.92	113.60
23	B	1022	CLA	CBC-CAC-C3C	-2.96	104.39	112.42
25	D	1042	PQ9	C35-C33-C32	2.96	127.82	121.17
25	d	6042	PQ9	C11-C2-C3	-2.96	119.90	123.39
23	B	1009	CLA	C2D-C1D-ND	2.96	113.06	110.13
26	d	6050	BCR	C23-C24-C25	2.96	134.91	127.00
26	a	6044	BCR	C38-C26-C27	2.96	119.91	113.60
23	c	6026	CLA	C2D-C1D-ND	2.96	113.06	110.13
26	k	6051	BCR	C37-C22-C21	-2.96	118.02	122.82
26	K	1051	BCR	C37-C22-C21	-2.95	118.04	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6029	CLA	CMB-C2B-C1B	2.95	129.91	125.42
26	c	6054	BCR	C33-C5-C4	2.95	119.88	113.60
23	B	1015	CLA	CBA-CAA-C2A	-2.95	105.03	113.79
26	K	1051	BCR	C38-C26-C27	2.94	119.87	113.60
26	k	6051	BCR	C38-C26-C27	2.94	119.87	113.60
26	C	1054	BCR	C33-C5-C4	2.94	119.86	113.60
26	a	6044	BCR	C23-C24-C25	2.94	134.85	127.00
26	A	1044	BCR	C23-C24-C25	2.94	134.85	127.00
23	b	6015	CLA	CBA-CAA-C2A	-2.94	105.06	113.79
23	C	1026	CLA	CMB-C2B-C1B	2.94	129.89	125.42
23	C	1029	CLA	CMB-C2B-C1B	2.93	129.89	125.42
23	b	6009	CLA	C2D-C1D-ND	2.93	113.03	110.13
23	B	1009	CLA	C4C-C3C-C2C	-2.93	102.62	106.89
23	B	1010	CLA	CAC-C3C-C4C	2.93	128.60	124.79
23	c	6030	CLA	CAC-C3C-C4C	2.93	128.60	124.79
23	c	6036	CLA	CAC-C3C-C4C	2.92	128.59	124.79
23	c	6026	CLA	CMB-C2B-C1B	2.92	129.87	125.42
23	C	1037	CLA	CAC-C3C-C4C	2.92	128.59	124.79
23	C	1033	CLA	CAC-C3C-C4C	2.92	128.59	124.79
26	z	6053	BCR	C39-C30-C29	2.92	120.16	108.95
23	b	6010	CLA	CAC-C3C-C4C	2.92	128.59	124.79
26	B	1048	BCR	C8-C7-C6	-2.92	119.20	127.00
23	b	6009	CLA	C4C-C3C-C2C	-2.92	102.65	106.89
23	b	6010	CLA	CMB-C2B-C1B	2.92	129.86	125.42
26	b	6048	BCR	C8-C7-C6	-2.91	119.21	127.00
23	c	6037	CLA	CAC-C3C-C4C	2.91	128.58	124.79
23	b	6009	CLA	O2D-CGD-O1D	-2.91	118.18	123.85
26	Z	1053	BCR	C39-C30-C29	2.91	120.14	108.95
23	C	1034	CLA	CAC-C3C-C4C	2.91	128.58	124.79
23	B	1009	CLA	O2D-CGD-O1D	-2.91	118.18	123.85
23	C	1031	CLA	CAC-C3C-C4C	2.91	128.58	124.79
23	C	1025	CLA	CAC-C3C-C4C	2.91	128.57	124.79
23	C	1030	CLA	CAC-C3C-C4C	2.91	128.57	124.79
23	a	6003	CLA	CAC-C3C-C4C	2.91	128.57	124.79
23	B	1010	CLA	CMB-C2B-C1B	2.91	129.84	125.42
23	b	6018	CLA	CAC-C3C-C4C	2.91	128.57	124.79
23	C	1026	CLA	C2D-C1D-ND	2.90	113.00	110.13
23	A	1003	CLA	CAC-C3C-C4C	2.90	128.57	124.79
23	B	1023	CLA	CAC-C3C-C4C	2.90	128.56	124.79
23	b	6022	CLA	C6-C5-C3	-2.90	106.40	113.47
25	D	1042	PQ9	C3-C4-C5	2.90	122.44	119.00
23	D	1004	CLA	CAC-C3C-C4C	2.90	128.56	124.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	b	6017	CLA	C2D-C1D-ND	2.90	112.99	110.13
23	B	1012	CLA	CAC-C3C-C4C	2.90	128.56	124.79
23	b	6020	CLA	CMB-C2B-C1B	2.90	129.83	125.42
23	C	1028	CLA	CAC-C3C-C4C	2.90	128.56	124.79
23	c	6031	CLA	CAC-C3C-C4C	2.90	128.56	124.79
23	d	6004	CLA	CAC-C3C-C4C	2.90	128.56	124.79
23	D	1008	CLA	CAC-C3C-C4C	2.89	128.56	124.79
23	b	6011	CLA	CAC-C3C-C4C	2.89	128.55	124.79
23	b	6013	CLA	CAC-C3C-C4C	2.89	128.55	124.79
23	c	6025	CLA	CAC-C3C-C4C	2.89	128.55	124.79
23	B	1020	CLA	CAC-C3C-C4C	2.89	128.55	124.79
23	H	1017	CLA	CAC-C3C-C4C	2.89	128.55	124.79
23	b	6020	CLA	CAC-C3C-C4C	2.89	128.55	124.79
23	c	6033	CLA	CAC-C3C-C4C	2.89	128.55	124.79
23	c	6033	CLA	C2D-C1D-ND	2.89	112.98	110.13
23	C	1033	CLA	C2D-C1D-ND	2.89	112.98	110.13
23	B	1022	CLA	C6-C5-C3	-2.89	106.43	113.47
23	d	6004	CLA	C2D-C1D-ND	2.89	112.98	110.13
23	B	1016	CLA	CAC-C3C-C4C	2.89	128.54	124.79
23	B	1018	CLA	CAC-C3C-C4C	2.89	128.54	124.79
23	C	1032	CLA	CAC-C3C-C4C	2.89	128.54	124.79
23	b	6011	CLA	CMB-C2B-C1B	2.89	129.81	125.42
23	c	6037	CLA	CMB-C2B-C1B	2.88	129.81	125.42
23	C	1036	CLA	CAC-C3C-C4C	2.88	128.54	124.79
23	b	6021	CLA	CAC-C3C-C4C	2.88	128.54	124.79
23	C	1031	CLA	CMB-C2B-C1B	2.88	129.81	125.42
23	B	1021	CLA	CAC-C3C-C4C	2.88	128.54	124.79
23	c	6031	CLA	CMB-C2B-C1B	2.88	129.81	125.42
23	b	6021	CLA	CMD-C2D-C3D	-2.88	121.08	127.69
23	c	6030	CLA	CMB-C2B-C1B	2.88	129.80	125.42
23	b	6021	CLA	C2D-C1D-ND	2.88	112.98	110.13
23	B	1009	CLA	C4-C3-C5	2.88	120.22	115.23
23	c	6035	CLA	CMB-C2B-C1B	2.88	129.80	125.42
23	d	6008	CLA	CAC-C3C-C4C	2.88	128.53	124.79
23	b	6012	CLA	CAC-C3C-C4C	2.88	128.53	124.79
23	B	1013	CLA	CAC-C3C-C4C	2.88	128.53	124.79
23	a	6006	CLA	CAC-C3C-C4C	2.88	128.53	124.79
23	b	6023	CLA	CAC-C3C-C4C	2.88	128.53	124.79
23	b	6019	CLA	C1-C2-C3	-2.88	121.49	126.20
23	B	1011	CLA	CAC-C3C-C4C	2.88	128.53	124.79
23	C	1032	CLA	CMB-C2B-C1B	2.87	129.80	125.42
23	C	1035	CLA	CMB-C2B-C1B	2.87	129.80	125.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6032	CLA	CMD-C2D-C3D	-2.87	121.10	127.69
23	b	6018	CLA	CMB-C2B-C1B	2.87	129.79	125.42
23	C	1030	CLA	CMB-C2B-C1B	2.87	129.79	125.42
23	D	1005	CLA	CAC-C3C-C4C	2.87	128.53	124.79
23	c	6032	CLA	CAC-C3C-C4C	2.87	128.53	124.79
23	B	1011	CLA	CMB-C2B-C1B	2.87	129.79	125.42
23	C	1027	CLA	CAC-C3C-C4C	2.87	128.53	124.79
23	c	6032	CLA	C2D-C1D-ND	2.87	112.97	110.13
23	c	6027	CLA	CMB-C2B-C1B	2.87	129.79	125.42
23	C	1035	CLA	CAC-C3C-C4C	2.87	128.53	124.79
23	c	6028	CLA	CAC-C3C-C4C	2.87	128.53	124.79
23	C	1037	CLA	CMB-C2B-C1B	2.87	129.79	125.42
23	B	1024	CLA	C2D-C1D-ND	2.87	112.97	110.13
23	b	6015	CLA	C4C-C3C-C2C	-2.87	102.72	106.89
23	c	6034	CLA	CHB-C4A-NA	2.87	128.54	124.40
23	C	1034	CLA	CMB-C2B-C1B	2.87	129.78	125.42
23	B	1015	CLA	C4C-C3C-C2C	-2.87	102.72	106.89
23	B	1023	CLA	CMB-C2B-C1B	2.87	129.78	125.42
23	D	1005	CLA	CMB-C2B-C1B	2.87	129.78	125.42
23	H	1017	CLA	C2D-C1D-ND	2.87	112.96	110.13
23	D	1008	CLA	CMB-C2B-C1B	2.87	129.78	125.42
23	b	6013	CLA	CMB-C2B-C1B	2.87	129.78	125.42
23	c	6035	CLA	CAC-C3C-C4C	2.87	128.52	124.79
23	b	6017	CLA	CAC-C3C-C4C	2.86	128.52	124.79
23	c	6030	CLA	C2D-C1D-ND	2.86	112.96	110.13
23	a	6006	CLA	CMD-C2D-C3D	-2.86	121.12	127.69
23	C	1034	CLA	CMD-C2D-C3D	-2.86	121.12	127.69
23	H	1017	CLA	CMB-C2B-C1B	2.86	129.78	125.42
23	c	6032	CLA	CMB-C2B-C1B	2.86	129.78	125.42
23	d	6008	CLA	CMD-C2D-C3D	-2.86	121.12	127.69
23	A	1006	CLA	CAC-C3C-C4C	2.86	128.51	124.79
23	C	1032	CLA	C2D-C1D-ND	2.86	112.96	110.13
23	B	1020	CLA	CMB-C2B-C1B	2.86	129.78	125.42
23	C	1036	CLA	CMB-C2B-C1B	2.86	129.78	125.42
23	B	1019	CLA	C1-C2-C3	-2.86	121.51	126.20
23	C	1030	CLA	C2D-C1D-ND	2.86	112.96	110.13
23	C	1034	CLA	C2D-C1D-ND	2.86	112.96	110.13
23	d	6005	CLA	CMD-C2D-C3D	-2.86	121.13	127.69
23	c	6028	CLA	CMB-C2B-C1B	2.86	129.77	125.42
23	c	6036	CLA	CMB-C2B-C1B	2.86	129.77	125.42
23	d	6008	CLA	CMB-C2B-C1B	2.86	129.77	125.42
23	A	1006	CLA	CMB-C2B-C1B	2.86	129.77	125.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	b	6011	CLA	CMD-C2D-C3D	-2.86	121.13	127.69
23	B	1012	CLA	CMB-C2B-C1B	2.86	129.77	125.42
23	b	6023	CLA	C2D-C1D-ND	2.86	112.95	110.13
23	a	6006	CLA	CMB-C2B-C1B	2.86	129.77	125.42
23	c	6025	CLA	CMD-C2D-C3D	-2.86	121.14	127.69
23	B	1011	CLA	CMD-C2D-C3D	-2.86	121.14	127.69
23	B	1021	CLA	CMD-C2D-C3D	-2.86	121.14	127.69
23	c	6030	CLA	CMD-C2D-C3D	-2.86	121.14	127.69
23	b	6012	CLA	C2D-C1D-ND	2.86	112.95	110.13
23	c	6027	CLA	CAC-C3C-C4C	2.86	128.50	124.79
23	B	1021	CLA	CMB-C2B-C1B	2.85	129.77	125.42
23	d	6005	CLA	CMB-C2B-C1B	2.85	129.77	125.42
23	D	1008	CLA	CMD-C2D-C3D	-2.85	121.14	127.69
23	c	6035	CLA	CMD-C2D-C3D	-2.85	121.14	127.69
23	D	1004	CLA	C2D-C1D-ND	2.85	112.95	110.13
23	a	6003	CLA	CMB-C2B-C1B	2.85	129.76	125.42
23	c	6033	CLA	CMB-C2B-C1B	2.85	129.76	125.42
25	A	1043	PQ9	C20-C21-C22	-2.85	97.90	112.02
23	B	1016	CLA	C2D-C1D-ND	2.85	112.95	110.13
23	B	1021	CLA	C2D-C1D-ND	2.85	112.95	110.13
26	b	6047	BCR	C8-C7-C6	-2.85	119.38	127.00
23	b	6016	CLA	CAC-C3C-C4C	2.85	128.50	124.79
23	a	6003	CLA	C2D-C1D-ND	2.85	112.95	110.13
23	b	6009	CLA	C4-C3-C5	2.85	120.18	115.23
23	C	1033	CLA	CMB-C2B-C1B	2.85	129.76	125.42
23	C	1028	CLA	CMD-C2D-C3D	-2.85	121.15	127.69
23	A	1003	CLA	CMB-C2B-C1B	2.85	129.76	125.42
23	C	1030	CLA	CMD-C2D-C3D	-2.85	121.15	127.69
23	B	1020	CLA	C2D-C1D-ND	2.85	112.95	110.13
23	b	6020	CLA	C2D-C1D-ND	2.85	112.95	110.13
23	C	1025	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
23	b	6018	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
23	B	1018	CLA	CMB-C2B-C1B	2.85	129.76	125.42
23	a	6003	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
23	B	1011	CLA	C2D-C1D-ND	2.85	112.94	110.13
23	B	1023	CLA	C2D-C1D-ND	2.85	112.94	110.13
26	B	1047	BCR	C8-C7-C6	-2.85	119.39	127.00
23	b	6016	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
23	c	6037	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
26	b	6047	BCR	C33-C5-C4	2.85	119.67	113.60
23	b	6011	CLA	C2D-C1D-ND	2.85	112.94	110.13
23	B	1018	CLA	CMD-C2D-C3D	-2.85	121.16	127.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	d	6004	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
23	C	1032	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
23	b	6012	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
26	B	1047	BCR	C33-C5-C4	2.85	119.67	113.60
23	D	1005	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
23	b	6012	CLA	CMB-C2B-C1B	2.85	129.75	125.42
23	b	6013	CLA	C2D-C1D-ND	2.85	112.94	110.13
23	c	6036	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
23	A	1006	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
23	B	1016	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
23	b	6024	CLA	C2D-C1D-ND	2.84	112.94	110.13
23	C	1036	CLA	C2D-C1D-ND	2.84	112.94	110.13
23	A	1003	CLA	C2D-C1D-ND	2.84	112.94	110.13
23	c	6037	CLA	C2D-C1D-ND	2.84	112.94	110.13
23	C	1027	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
23	D	1004	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
23	A	1003	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
23	C	1035	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
23	b	6017	CLA	CMB-C2B-C1B	2.84	129.74	125.42
23	b	6015	CLA	C4-C3-C5	2.84	120.16	115.23
23	c	6027	CLA	CMD-C2D-C3D	-2.84	121.18	127.69
23	C	1031	CLA	CMD-C2D-C3D	-2.84	121.18	127.69
23	b	6023	CLA	CMB-C2B-C1B	2.84	129.74	125.42
23	B	1013	CLA	CMD-C2D-C3D	-2.84	121.18	127.69
23	d	6004	CLA	CMB-C2B-C1B	2.84	129.74	125.42
23	b	6013	CLA	CMD-C2D-C3D	-2.84	121.18	127.69
23	b	6016	CLA	CMB-C2B-C1B	2.84	129.74	125.42
23	B	1013	CLA	C2D-C1D-ND	2.84	112.93	110.13
23	b	6023	CLA	CMD-C2D-C3D	-2.84	121.18	127.69
23	D	1004	CLA	CMB-C2B-C1B	2.84	129.74	125.42
23	d	6008	CLA	C2D-C1D-ND	2.84	112.93	110.13
23	B	1013	CLA	CMB-C2B-C1B	2.84	129.74	125.42
23	c	6033	CLA	CMD-C2D-C3D	-2.84	121.19	127.69
23	C	1026	CLA	C4C-C3C-C2C	-2.84	102.76	106.89
23	c	6035	CLA	C2D-C1D-ND	2.84	112.93	110.13
23	d	6005	CLA	CAC-C3C-C4C	2.83	128.48	124.79
23	C	1028	CLA	C2D-C1D-ND	2.83	112.93	110.13
23	C	1036	CLA	CMD-C2D-C3D	-2.83	121.19	127.69
23	C	1037	CLA	CMD-C2D-C3D	-2.83	121.19	127.69
23	C	1025	CLA	CMB-C2B-C1B	2.83	129.73	125.42
23	c	6029	CLA	C4-C3-C5	2.83	120.14	115.23
23	B	1023	CLA	CMD-C2D-C3D	-2.83	121.20	127.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	C	1033	CLA	CMD-C2D-C3D	-2.83	121.20	127.69
23	H	1017	CLA	CMD-C2D-C3D	-2.83	121.20	127.69
26	t	1046	BCR	C38-C26-C25	-2.83	121.40	124.48
23	B	1016	CLA	CMB-C2B-C1B	2.83	129.73	125.42
23	C	1027	CLA	CMB-C2B-C1B	2.83	129.73	125.42
23	b	6020	CLA	CMD-C2D-C3D	-2.83	121.20	127.69
23	c	6027	CLA	C2D-C1D-ND	2.83	112.92	110.13
23	c	6031	CLA	C2D-C1D-ND	2.83	112.92	110.13
23	b	6017	CLA	CMD-C2D-C3D	-2.83	121.21	127.69
24	d	6038	PHO	CBC-CAC-C3C	-2.83	108.83	112.87
23	c	6031	CLA	CMD-C2D-C3D	-2.83	121.21	127.69
23	b	6021	CLA	CMB-C2B-C1B	2.82	129.72	125.42
23	C	1028	CLA	CMB-C2B-C1B	2.82	129.72	125.42
23	C	1031	CLA	C2D-C1D-ND	2.82	112.92	110.13
23	B	1020	CLA	CMD-C2D-C3D	-2.82	121.22	127.69
24	A	1038	PHO	CBC-CAC-C3C	-2.82	108.83	112.87
23	B	1015	CLA	C4-C3-C5	2.82	120.12	115.23
23	D	1008	CLA	C2D-C1D-ND	2.82	112.92	110.13
23	b	6014	CLA	C2D-C1D-ND	2.82	112.92	110.13
23	c	6028	CLA	CMD-C2D-C3D	-2.82	121.22	127.69
23	c	6025	CLA	CMB-C2B-C1B	2.82	129.71	125.42
23	B	1012	CLA	CMD-C2D-C3D	-2.82	121.23	127.69
26	a	6044	BCR	C37-C22-C21	-2.82	118.25	122.82
23	b	6024	CLA	O2D-CGD-CBD	2.82	116.15	111.23
23	B	1012	CLA	C2D-C1D-ND	2.82	112.91	110.13
23	C	1029	CLA	C4-C3-C5	2.82	120.11	115.23
23	B	1014	CLA	C2D-C1D-ND	2.81	112.91	110.13
23	C	1037	CLA	C2D-C1D-ND	2.81	112.91	110.13
23	b	6016	CLA	C2D-C1D-ND	2.81	112.91	110.13
23	a	6006	CLA	C2D-C1D-ND	2.81	112.91	110.13
26	a	6044	BCR	C29-C30-C25	-2.81	106.35	110.44
23	C	1027	CLA	C2D-C1D-ND	2.81	112.91	110.13
23	c	6036	CLA	C2D-C1D-ND	2.81	112.91	110.13
23	c	6026	CLA	C4C-C3C-C2C	-2.81	102.80	106.89
23	B	1024	CLA	O2D-CGD-CBD	2.81	116.14	111.23
23	c	6025	CLA	C2D-C1D-ND	2.81	112.91	110.13
26	T	6046	BCR	C37-C22-C21	-2.81	118.27	122.82
26	A	1044	BCR	C37-C22-C21	-2.80	118.28	122.82
23	B	1018	CLA	C2D-C1D-ND	2.80	112.90	110.13
23	b	6018	CLA	C2D-C1D-ND	2.80	112.90	110.13
23	C	1035	CLA	C2D-C1D-ND	2.80	112.89	110.13
23	d	6005	CLA	C2D-C1D-ND	2.80	112.89	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	B	1015	CLA	CHB-C4A-NA	2.80	128.43	124.40
23	C	1025	CLA	C2D-C1D-ND	2.79	112.89	110.13
23	c	6034	CLA	C4-C3-C5	2.79	120.08	115.23
23	A	1006	CLA	C2D-C1D-ND	2.79	112.89	110.13
23	c	6028	CLA	C2D-C1D-ND	2.79	112.89	110.13
26	A	1044	BCR	C29-C30-C25	-2.79	106.38	110.44
23	D	1005	CLA	C2D-C1D-ND	2.79	112.89	110.13
26	B	1045	BCR	C28-C27-C26	-2.79	109.09	114.06
23	b	6015	CLA	CHB-C4A-NA	2.78	128.42	124.40
23	b	6018	CLA	C4-C3-C5	2.78	120.06	115.23
23	c	6027	CLA	C4-C3-C5	2.78	120.05	115.23
23	a	6003	CLA	C4C-C3C-C2C	-2.78	102.85	106.89
23	c	6031	CLA	C4-C3-C5	2.78	120.05	115.23
23	H	1017	CLA	C4C-C3C-C2C	-2.78	102.85	106.89
23	C	1030	CLA	C4C-C3C-C2C	-2.78	102.85	106.89
23	C	1034	CLA	C4C-C3C-C2C	-2.78	102.85	106.89
23	c	6036	CLA	C4-C3-C5	2.77	120.04	115.23
23	A	1003	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
23	b	6017	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
23	c	6034	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
25	d	6042	PQ9	C39-C38-C40	2.77	120.04	115.23
23	b	6018	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
23	C	1025	CLA	C4-C3-C5	2.77	120.04	115.23
23	c	6027	CLA	CHB-C4A-NA	2.77	128.40	124.40
23	c	6030	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
23	C	1036	CLA	C4-C3-C5	2.77	120.03	115.23
26	b	6045	BCR	C28-C27-C26	-2.77	109.12	114.06
23	c	6025	CLA	C4-C3-C5	2.77	120.03	115.23
23	b	6009	CLA	CMB-C2B-C1B	2.77	129.63	125.42
23	B	1009	CLA	O2A-CGA-CBA	2.77	120.27	111.83
23	B	1018	CLA	C4-C3-C5	2.76	120.03	115.23
23	C	1037	CLA	C4C-C3C-C2C	-2.76	102.87	106.89
23	d	6008	CLA	CHB-C4A-NA	2.76	128.39	124.40
23	b	6020	CLA	C4-C3-C5	2.76	120.02	115.23
23	B	1009	CLA	CMB-C2B-C1B	2.76	129.62	125.42
23	b	6021	CLA	C4-C3-C5	2.76	120.02	115.23
23	c	6028	CLA	C4-C3-C5	2.76	120.02	115.23
23	b	6015	CLA	CMD-C2D-C3D	-2.76	121.36	127.69
23	D	1008	CLA	C4-C3-C5	2.76	120.02	115.23
23	b	6017	CLA	C4-C3-C5	2.76	120.02	115.23
23	A	1007	CLA	CAA-C2A-C3A	-2.75	105.56	113.00
23	H	1017	CLA	C4-C3-C5	2.75	120.01	115.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	d	6004	CLA	C4C-C3C-C2C	-2.75	102.88	106.89
23	B	1021	CLA	C4-C3-C5	2.75	120.01	115.23
23	C	1030	CLA	C4-C3-C5	2.75	120.01	115.23
26	A	1044	BCR	C27-C26-C25	-2.75	118.98	122.70
23	b	6009	CLA	O2A-CGA-CBA	2.75	120.23	111.83
23	C	1031	CLA	C4-C3-C5	2.75	120.01	115.23
23	D	1005	CLA	CHB-C4A-NA	2.75	128.37	124.40
23	C	1027	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
23	b	6013	CLA	C4-C3-C5	2.75	120.00	115.23
23	C	1031	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
23	c	6031	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
23	a	6007	CLA	CAA-C2A-C3A	-2.75	105.56	113.00
23	B	1011	CLA	C4-C3-C5	2.75	120.00	115.23
23	b	6009	CLA	CHB-C4A-NA	2.75	128.37	124.40
26	a	6044	BCR	C27-C26-C25	-2.75	118.99	122.70
23	C	1028	CLA	C4-C3-C5	2.75	120.00	115.23
23	C	1035	CLA	C4-C3-C5	2.75	120.00	115.23
30	c	6056	DGD	O1G-C1A-C2A	2.75	120.22	111.83
23	D	1008	CLA	CHB-C4A-NA	2.75	128.37	124.40
23	B	1016	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
23	b	6018	CLA	CHB-C4A-NA	2.75	128.37	124.40
23	B	1020	CLA	C4-C3-C5	2.75	120.00	115.23
23	c	6035	CLA	C4-C3-C5	2.75	120.00	115.23
23	c	6037	CLA	C4-C3-C5	2.75	120.00	115.23
25	D	1042	PQ9	C14-C13-C15	2.75	120.00	115.23
23	B	1012	CLA	CHB-C4A-NA	2.75	128.37	124.40
23	C	1036	CLA	CHB-C4A-NA	2.75	128.37	124.40
23	a	6006	CLA	C4-C3-C5	2.75	120.00	115.23
23	B	1013	CLA	C4-C3-C5	2.75	120.00	115.23
24	a	6039	PHO	C4-C3-C5	2.75	120.00	115.23
23	B	1012	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
23	C	1028	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
23	c	6027	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
23	B	1023	CLA	C4-C3-C5	2.75	120.00	115.23
23	B	1018	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
23	c	6028	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
23	C	1033	CLA	C4-C3-C5	2.75	119.99	115.23
23	a	6006	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
23	A	1006	CLA	C4-C3-C5	2.75	119.99	115.23
23	c	6030	CLA	C4-C3-C5	2.75	119.99	115.23
23	C	1037	CLA	C4-C3-C5	2.74	119.99	115.23
23	D	1004	CLA	C4-C3-C5	2.74	119.99	115.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	b	6011	CLA	C4-C3-C5	2.74	119.99	115.23
23	d	6008	CLA	C4-C3-C5	2.74	119.99	115.23
23	b	6012	CLA	C4C-C3C-C2C	-2.74	102.90	106.89
23	B	1015	CLA	CMD-C2D-C3D	-2.74	121.40	127.69
23	B	1021	CLA	C4C-C3C-C2C	-2.74	102.90	106.89
23	C	1025	CLA	C4C-C3C-C2C	-2.74	102.90	106.89
27	a	6063	LHG	O8-C23-C24	2.74	120.20	111.83
29	b	6060	MGE	O1G-C1A-C2A	2.74	120.20	111.83
23	C	1033	CLA	C4C-C3C-C2C	-2.74	102.90	106.89
29	d	6061	MGE	O1G-C1A-C2A	2.74	120.19	111.83
30	C	1056	DGD	O1G-C1A-C2A	2.74	120.19	111.83
23	C	1035	CLA	C4C-C3C-C2C	-2.74	102.90	106.89
23	C	1036	CLA	C4C-C3C-C2C	-2.74	102.90	106.89
23	b	6023	CLA	C4-C3-C5	2.74	119.99	115.23
25	D	1042	PQ9	C19-C18-C20	2.74	119.99	115.23
23	c	6037	CLA	C4C-C3C-C2C	-2.74	102.90	106.89
23	C	1034	CLA	C4-C3-C5	2.74	119.98	115.23
23	D	1005	CLA	C4-C3-C5	2.74	119.98	115.23
24	A	1039	PHO	C4-C3-C5	2.74	119.98	115.23
30	c	6057	DGD	O1G-C1A-C2A	2.74	120.19	111.83
23	C	1027	CLA	C4-C3-C5	2.74	119.98	115.23
23	B	1015	CLA	O2A-CGA-CBA	2.74	120.19	111.83
23	b	6012	CLA	C4-C3-C5	2.74	119.98	115.23
23	c	6036	CLA	C4C-C3C-C2C	-2.74	102.91	106.89
23	B	1016	CLA	C4-C3-C5	2.74	119.98	115.23
23	b	6015	CLA	O2A-CGA-CBA	2.74	120.18	111.83
23	b	6020	CLA	C4C-C3C-C2C	-2.74	102.91	106.89
23	b	6016	CLA	C4C-C3C-C2C	-2.74	102.91	106.89
23	B	1020	CLA	C4C-C3C-C2C	-2.74	102.91	106.89
27	A	1063	LHG	O8-C23-C24	2.73	120.17	111.83
23	B	1023	CLA	C4C-C3C-C2C	-2.73	102.91	106.89
23	b	6011	CLA	C4C-C3C-C2C	-2.73	102.91	106.89
25	d	6042	PQ9	C3-C4-C5	2.73	122.25	119.00
23	A	1007	CLA	CMD-C2D-C3D	-2.73	121.42	127.69
30	C	1057	DGD	O1G-C1A-C2A	2.73	120.17	111.83
23	D	1004	CLA	C4C-C3C-C2C	-2.73	102.91	106.89
23	b	6023	CLA	CHB-C4A-NA	2.73	128.34	124.40
23	D	1005	CLA	C4C-C3C-C2C	-2.73	102.91	106.89
29	L	1061	MGE	O1G-C1A-C2A	2.73	120.17	111.83
23	c	6025	CLA	CHB-C4A-NA	2.73	128.34	124.40
23	c	6033	CLA	CHB-C4A-NA	2.73	128.34	124.40
23	d	6005	CLA	C4-C3-C5	2.73	119.97	115.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	d	6005	CLA	CHB-C4A-NA	2.73	128.34	124.40
30	h	6058	DGD	O1G-C1A-C2A	2.73	120.16	111.83
23	c	6035	CLA	CHB-C4A-NA	2.73	128.34	124.40
23	A	1003	CLA	C4-C3-C5	2.73	119.97	115.23
23	B	1012	CLA	C4-C3-C5	2.73	119.97	115.23
23	b	6016	CLA	C4-C3-C5	2.73	119.97	115.23
23	C	1027	CLA	CHB-C4A-NA	2.73	128.34	124.40
24	a	6039	PHO	O2A-CGA-CBA	2.73	120.16	111.83
29	D	1062	MGE	O1G-C1A-C2A	2.73	120.16	111.83
26	b	6047	BCR	C30-C25-C24	2.73	123.05	115.65
23	a	6007	CLA	CMD-C2D-C3D	-2.73	121.43	127.69
23	B	1009	CLA	CHB-C4A-NA	2.73	128.34	124.40
23	B	1018	CLA	CHB-C4A-NA	2.73	128.34	124.40
26	b	6047	BCR	C23-C24-C25	-2.73	119.71	127.00
26	B	1047	BCR	C30-C25-C24	2.73	123.05	115.65
30	H	1058	DGD	O1G-C1A-C2A	2.73	120.15	111.83
23	B	1011	CLA	CHB-C4A-NA	2.73	128.34	124.40
23	c	6036	CLA	CHB-C4A-NA	2.73	128.34	124.40
23	b	6021	CLA	C4C-C3C-C2C	-2.73	102.92	106.89
24	A	1039	PHO	O2A-CGA-CBA	2.73	120.15	111.83
29	B	1060	MGE	O1G-C1A-C2A	2.73	120.15	111.83
29	J	1059	MGE	O1G-C1A-C2A	2.73	120.15	111.83
23	D	1004	CLA	CHB-C4A-NA	2.73	128.33	124.40
23	c	6033	CLA	C4C-C3C-C2C	-2.73	102.92	106.89
23	A	1006	CLA	C4C-C3C-C2C	-2.72	102.92	106.89
23	b	6023	CLA	C4C-C3C-C2C	-2.72	102.92	106.89
23	C	1033	CLA	CHB-C4A-NA	2.72	128.33	124.40
30	C	1055	DGD	O1G-C1A-C2A	2.72	120.14	111.83
23	B	1011	CLA	C4C-C3C-C2C	-2.72	102.93	106.89
23	D	1008	CLA	C4C-C3C-C2C	-2.72	102.93	106.89
23	c	6033	CLA	C4-C3-C5	2.72	119.95	115.23
26	A	1044	BCR	C37-C22-C23	2.72	122.25	118.09
29	d	6062	MGE	O1G-C1A-C2A	2.72	120.13	111.83
23	B	1023	CLA	CHB-C4A-NA	2.72	128.33	124.40
23	d	6004	CLA	CHB-C4A-NA	2.72	128.33	124.40
23	C	1028	CLA	CHB-C4A-NA	2.72	128.33	124.40
23	c	6032	CLA	C4C-C3C-C2C	-2.72	102.93	106.89
29	d	6059	MGE	O1G-C1A-C2A	2.72	120.12	111.83
23	c	6028	CLA	CHB-C4A-NA	2.72	128.32	124.40
23	b	6010	CLA	C2D-C1D-ND	2.72	112.81	110.13
23	d	6004	CLA	C4-C3-C5	2.72	119.94	115.23
23	B	1013	CLA	C4C-C3C-C2C	-2.72	102.94	106.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6035	CLA	C4C-C3C-C2C	-2.72	102.94	106.89
23	C	1032	CLA	C4-C3-C5	2.72	119.94	115.23
23	c	6034	CLA	CMD-C2D-C3D	-2.72	121.46	127.69
23	C	1035	CLA	CHB-C4A-NA	2.72	128.32	124.40
23	b	6011	CLA	CHB-C4A-NA	2.72	128.32	124.40
23	B	1019	CLA	CMB-C2B-C1B	2.71	129.55	125.42
23	C	1025	CLA	CHB-C4A-NA	2.71	128.32	124.40
23	d	6008	CLA	C4C-C3C-C2C	-2.71	102.94	106.89
30	c	6055	DGD	O1G-C1A-C2A	2.71	120.11	111.83
23	C	1037	CLA	CHB-C4A-NA	2.71	128.32	124.40
23	a	6003	CLA	C4-C3-C5	2.71	119.94	115.23
23	b	6024	CLA	C4-C3-C5	2.71	119.94	115.23
23	c	6032	CLA	C4-C3-C5	2.71	119.94	115.23
23	a	6006	CLA	CHB-C4A-NA	2.71	128.31	124.40
23	b	6013	CLA	CHB-C4A-NA	2.71	128.31	124.40
23	C	1032	CLA	C4C-C3C-C2C	-2.71	102.95	106.89
26	B	1047	BCR	C23-C24-C25	-2.71	119.76	127.00
23	a	6003	CLA	CHB-C4A-NA	2.71	128.31	124.40
23	d	6008	CLA	O2A-CGA-CBA	2.71	120.09	111.83
23	c	6032	CLA	CHB-C4A-NA	2.71	128.31	124.40
23	A	1007	CLA	CHB-C4A-NA	2.71	128.31	124.40
23	B	1024	CLA	C4-C3-C5	2.71	119.93	115.23
23	b	6019	CLA	CMB-C2B-C1B	2.71	129.54	125.42
23	H	1017	CLA	CHB-C4A-NA	2.71	128.31	124.40
23	c	6025	CLA	C4C-C3C-C2C	-2.71	102.95	106.89
23	B	1021	CLA	CHB-C4A-NA	2.71	128.30	124.40
23	d	6005	CLA	C4C-C3C-C2C	-2.70	102.95	106.89
26	d	6050	BCR	C37-C22-C21	-2.70	118.44	122.82
23	b	6012	CLA	CHB-C4A-NA	2.70	128.30	124.40
23	c	6037	CLA	CHB-C4A-NA	2.70	128.30	124.40
23	c	6026	CLA	CGD-CBD-CAD	-2.70	102.09	110.85
26	k	6051	BCR	C23-C24-C25	2.70	134.22	127.00
23	C	1026	CLA	CGD-CBD-CAD	-2.70	102.10	110.85
23	H	1017	CLA	O2A-CGA-CBA	2.70	120.07	111.83
23	B	1013	CLA	CHB-C4A-NA	2.70	128.30	124.40
26	a	6044	BCR	C37-C22-C23	2.70	122.22	118.09
23	b	6017	CLA	CHB-C4A-NA	2.70	128.30	124.40
26	K	1051	BCR	C23-C24-C25	2.70	134.21	127.00
23	C	1032	CLA	CHB-C4A-NA	2.70	128.29	124.40
23	c	6027	CLA	O2A-CGA-CBA	2.70	120.06	111.83
23	b	6013	CLA	C4C-C3C-C2C	-2.70	102.96	106.89
23	C	1034	CLA	CHB-C4A-NA	2.70	128.29	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	t	1046	BCR	C37-C22-C21	-2.70	118.45	122.82
23	a	6003	CLA	O2A-CGA-CBA	2.70	120.06	111.83
23	A	1003	CLA	CHB-C4A-NA	2.70	128.29	124.40
23	c	6030	CLA	CHB-C4A-NA	2.70	128.29	124.40
23	b	6017	CLA	O2A-CGA-CBA	2.69	120.05	111.83
23	C	1030	CLA	CHB-C4A-NA	2.69	128.29	124.40
23	b	6024	CLA	CBC-CAC-C3C	-2.69	105.12	112.42
23	D	1008	CLA	O2A-CGA-CBA	2.69	120.05	111.83
23	c	6031	CLA	CHB-C4A-NA	2.69	128.28	124.40
23	b	6018	CLA	O2A-CGA-CBA	2.69	120.04	111.83
23	b	6011	CLA	O2A-CGA-CBA	2.69	120.04	111.83
23	B	1011	CLA	O2A-CGA-CBA	2.69	120.04	111.83
23	B	1024	CLA	CBC-CAC-C3C	-2.69	105.13	112.42
23	B	1010	CLA	C2D-C1D-ND	2.69	112.79	110.13
23	A	1006	CLA	CHB-C4A-NA	2.69	128.28	124.40
23	b	6016	CLA	CHB-C4A-NA	2.69	128.28	124.40
23	B	1016	CLA	CHB-C4A-NA	2.69	128.28	124.40
23	a	6007	CLA	CHB-C4A-NA	2.69	128.28	124.40
23	b	6023	CLA	O2A-CGA-CBA	2.69	120.03	111.83
23	B	1013	CLA	O2A-CGA-CBA	2.69	120.03	111.83
23	B	1016	CLA	O2A-CGA-CBA	2.69	120.03	111.83
23	A	1003	CLA	O2A-CGA-CBA	2.69	120.03	111.83
23	b	6013	CLA	O2A-CGA-CBA	2.69	120.03	111.83
24	A	1039	PHO	O1D-CGD-CBD	-2.68	120.65	124.72
23	B	1021	CLA	O2A-CGA-CBA	2.68	120.02	111.83
23	c	6030	CLA	O2A-CGA-CBA	2.68	120.02	111.83
23	B	1023	CLA	O2A-CGA-CBA	2.68	120.02	111.83
23	C	1036	CLA	O2A-CGA-CBA	2.68	120.01	111.83
23	c	6036	CLA	O2A-CGA-CBA	2.68	120.01	111.83
23	C	1027	CLA	O2A-CGA-CBA	2.68	120.01	111.83
23	b	6021	CLA	O2A-CGA-CBA	2.68	120.01	111.83
23	B	1012	CLA	O2A-CGA-CBA	2.68	120.01	111.83
23	B	1020	CLA	CHB-C4A-NA	2.68	128.27	124.40
26	D	1050	BCR	C37-C22-C21	-2.68	118.47	122.82
23	a	6007	CLA	C4-C3-C5	2.68	119.88	115.23
26	T	6046	BCR	C1-C6-C7	2.68	122.92	115.65
23	C	1028	CLA	O2A-CGA-CBA	2.68	120.00	111.83
23	c	6037	CLA	O2A-CGA-CBA	2.68	120.00	111.83
23	C	1030	CLA	O2A-CGA-CBA	2.68	120.00	111.83
23	C	1037	CLA	O2A-CGA-CBA	2.68	120.00	111.83
23	c	6035	CLA	O2A-CGA-CBA	2.68	120.00	111.83
24	A	1038	PHO	O2A-CGA-CBA	2.68	120.00	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	C	1031	CLA	CHB-C4A-NA	2.68	128.26	124.40
23	C	1035	CLA	O2A-CGA-CBA	2.68	119.99	111.83
23	b	6012	CLA	O2A-CGA-CBA	2.67	119.99	111.83
24	d	6038	PHO	O2A-CGA-CBA	2.67	119.99	111.83
23	c	6032	CLA	O2A-CGA-CBA	2.67	119.99	111.83
23	b	6016	CLA	O2A-CGA-CBA	2.67	119.99	111.83
23	B	1019	CLA	CHB-C4A-NA	2.67	128.26	124.40
23	C	1034	CLA	O2A-CGA-CBA	2.67	119.98	111.83
24	a	6039	PHO	O1D-CGD-CBD	-2.67	120.67	124.72
23	A	1007	CLA	C4-C3-C5	2.67	119.87	115.23
23	C	1025	CLA	O2A-CGA-CBA	2.67	119.98	111.83
23	c	6028	CLA	O2A-CGA-CBA	2.67	119.98	111.83
23	c	6033	CLA	O2A-CGA-CBA	2.67	119.98	111.83
23	B	1018	CLA	O2A-CGA-CBA	2.67	119.98	111.83
23	C	1033	CLA	O2A-CGA-CBA	2.67	119.97	111.83
23	b	6021	CLA	CHB-C4A-NA	2.67	128.25	124.40
23	d	6005	CLA	O2A-CGA-CBA	2.67	119.97	111.83
23	b	6019	CLA	C16-C15-C13	-2.67	107.10	115.97
23	b	6020	CLA	CHB-C4A-NA	2.67	128.25	124.40
23	A	1006	CLA	O2A-CGA-CBA	2.67	119.97	111.83
23	C	1031	CLA	O2A-CGA-CBA	2.67	119.97	111.83
23	C	1032	CLA	O2A-CGA-CBA	2.67	119.97	111.83
23	d	6004	CLA	O2A-CGA-CBA	2.67	119.97	111.83
23	a	6006	CLA	O2A-CGA-CBA	2.67	119.97	111.83
23	c	6025	CLA	O2A-CGA-CBA	2.67	119.96	111.83
23	b	6019	CLA	CHB-C4A-NA	2.67	128.25	124.40
23	B	1019	CLA	C16-C15-C13	-2.66	107.11	115.97
23	D	1005	CLA	O2A-CGA-CBA	2.66	119.95	111.83
26	D	1050	BCR	C34-C9-C10	-2.66	118.50	122.82
26	d	6050	BCR	C34-C9-C10	-2.66	118.50	122.82
23	D	1004	CLA	O2A-CGA-CBA	2.66	119.95	111.83
23	c	6031	CLA	O2A-CGA-CBA	2.66	119.95	111.83
23	A	1007	CLA	C4C-C3C-C2C	-2.66	103.02	106.89
25	D	1042	PQ9	C12-C11-C2	-2.65	105.17	112.03
23	B	1022	CLA	C4-C3-C5	2.65	119.83	115.23
26	A	1044	BCR	C33-C5-C6	-2.65	121.59	124.48
23	B	1020	CLA	O2A-CGA-CBA	2.65	119.92	111.83
23	b	6020	CLA	O2A-CGA-CBA	2.65	119.91	111.83
23	b	6014	CLA	C4C-C3C-C2C	-2.65	103.04	106.89
26	H	1049	BCR	C23-C24-C25	-2.65	119.93	127.00
23	a	6007	CLA	C4C-C3C-C2C	-2.64	103.04	106.89
26	h	6049	BCR	C23-C24-C25	-2.64	119.94	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	b	6022	CLA	C4-C3-C5	2.64	119.81	115.23
23	B	1009	CLA	CMD-C2D-C3D	-2.64	121.64	127.69
26	h	6049	BCR	C8-C7-C6	-2.63	119.96	127.00
23	b	6010	CLA	C4C-C3C-C2C	-2.63	103.06	106.89
26	H	1049	BCR	C8-C7-C6	-2.63	119.97	127.00
23	b	6009	CLA	CMD-C2D-C3D	-2.63	121.66	127.69
23	B	1010	CLA	C4C-C3C-C2C	-2.63	103.07	106.89
23	B	1024	CLA	CMD-C2D-C3D	-2.63	121.66	127.69
26	B	1045	BCR	C8-C7-C6	-2.63	119.98	127.00
23	B	1014	CLA	C4C-C3C-C2C	-2.63	103.07	106.89
23	b	6010	CLA	CHC-C1C-C2C	-2.62	119.49	126.95
26	t	1046	BCR	C8-C7-C6	-2.62	119.99	127.00
23	b	6024	CLA	CMD-C2D-C3D	-2.62	121.68	127.69
26	b	6045	BCR	C8-C7-C6	-2.62	119.99	127.00
26	k	6052	BCR	C8-C7-C6	-2.62	120.00	127.00
26	K	1052	BCR	C23-C24-C25	-2.62	120.00	127.00
26	Z	1053	BCR	C8-C7-C6	-2.62	120.00	127.00
26	z	6053	BCR	C23-C24-C25	-2.62	120.00	127.00
26	a	6044	BCR	C33-C5-C6	-2.62	121.63	124.48
26	z	6053	BCR	C8-C7-C6	-2.62	120.01	127.00
26	Z	1053	BCR	C23-C24-C25	-2.61	120.01	127.00
23	B	1010	CLA	CHC-C1C-C2C	-2.61	119.52	126.95
26	z	6053	BCR	C28-C27-C26	-2.61	109.39	114.06
25	d	6042	PQ9	C14-C13-C15	2.61	119.76	115.23
23	a	6007	CLA	C2D-C1D-ND	2.61	112.71	110.13
26	k	6052	BCR	C23-C24-C25	-2.61	120.03	127.00
26	K	1052	BCR	C8-C7-C6	-2.61	120.03	127.00
23	C	1029	CLA	C2D-C1D-ND	2.61	112.71	110.13
26	K	1052	BCR	C28-C27-C26	-2.60	109.42	114.06
26	B	1045	BCR	C23-C24-C25	2.59	133.93	127.00
26	b	6045	BCR	C3-C4-C5	-2.59	109.43	114.06
26	C	1054	BCR	C23-C24-C25	-2.59	120.08	127.00
26	K	1051	BCR	C33-C5-C4	2.59	119.11	113.60
26	b	6045	BCR	C23-C24-C25	2.58	133.90	127.00
26	d	6050	BCR	C3-C4-C5	-2.58	109.45	114.06
26	B	1045	BCR	C3-C4-C5	-2.58	109.46	114.06
26	k	6051	BCR	C33-C5-C4	2.58	119.09	113.60
23	A	1007	CLA	C2D-C1D-ND	2.58	112.68	110.13
23	B	1014	CLA	CMD-C2D-C3D	-2.57	121.78	127.69
26	k	6052	BCR	C28-C27-C26	-2.57	109.46	114.06
26	h	6049	BCR	C3-C4-C5	-2.57	109.47	114.06
26	c	6054	BCR	C23-C24-C25	-2.57	120.12	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	Z	1053	BCR	C28-C27-C26	-2.57	109.47	114.06
24	d	6038	PHO	C4-C3-C5	2.57	119.69	115.23
25	d	6042	PQ9	C35-C36-C37	-2.57	99.29	112.02
26	H	1049	BCR	C3-C4-C5	-2.57	109.47	114.06
26	D	1050	BCR	C3-C4-C5	-2.57	109.48	114.06
26	K	1052	BCR	C3-C4-C5	-2.57	109.48	114.06
26	k	6052	BCR	C3-C4-C5	-2.56	109.49	114.06
23	b	6014	CLA	CMD-C2D-C3D	-2.56	121.81	127.69
25	A	1043	PQ9	C39-C38-C40	2.56	119.67	115.23
24	A	1038	PHO	C4-C3-C5	2.56	119.67	115.23
26	t	1046	BCR	C3-C4-C5	-2.55	109.52	114.06
23	c	6029	CLA	C6-C5-C3	-2.54	107.27	113.47
25	D	1042	PQ9	C35-C36-C37	-2.54	99.44	112.02
23	b	6019	CLA	C4-C3-C5	2.54	119.63	115.23
23	B	1019	CLA	C4-C3-C5	2.54	119.63	115.23
23	c	6029	CLA	C2D-C1D-ND	2.53	112.63	110.13
23	C	1029	CLA	C6-C5-C3	-2.53	107.30	113.47
26	Z	1053	BCR	C3-C4-C5	-2.53	109.54	114.06
23	b	6020	CLA	O2D-CGD-O1D	-2.53	118.93	123.85
26	z	6053	BCR	C3-C4-C5	-2.53	109.55	114.06
26	H	1049	BCR	C28-C27-C26	-2.52	109.56	114.06
26	h	6049	BCR	C28-C27-C26	-2.52	109.57	114.06
23	B	1023	CLA	O2D-CGD-O1D	-2.52	118.95	123.85
23	b	6018	CLA	O2D-CGD-O1D	-2.52	118.95	123.85
29	J	1059	MGE	C2G-O2G-C1B	-2.51	111.78	117.80
27	A	1063	LHG	C5-O7-C7	-2.51	111.78	117.80
30	h	6058	DGD	C2G-O2G-C1B	-2.51	111.78	117.80
30	C	1055	DGD	C2G-O2G-C1B	-2.51	111.78	117.80
30	c	6057	DGD	C2G-O2G-C1B	-2.51	111.79	117.80
23	b	6024	CLA	CHB-C4A-NA	2.51	128.02	124.40
29	b	6060	MGE	C2G-O2G-C1B	-2.51	111.79	117.80
30	C	1056	DGD	C2G-O2G-C1B	-2.51	111.79	117.80
29	B	1060	MGE	C2G-O2G-C1B	-2.51	111.79	117.80
26	B	1048	BCR	C38-C26-C27	2.51	118.94	113.60
26	c	6054	BCR	C30-C25-C24	2.51	122.45	115.65
23	C	1031	CLA	O2D-CGD-O1D	-2.51	118.97	123.85
29	d	6059	MGE	C2G-O2G-C1B	-2.51	111.80	117.80
23	B	1020	CLA	O2D-CGD-O1D	-2.51	118.97	123.85
29	D	1062	MGE	C2G-O2G-C1B	-2.51	111.80	117.80
30	C	1057	DGD	C2G-O2G-C1B	-2.51	111.80	117.80
26	b	6048	BCR	C38-C26-C27	2.51	118.94	113.60
23	b	6011	CLA	O2D-CGD-O1D	-2.51	118.97	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6025	CLA	O2D-CGD-O1D	-2.51	118.97	123.85
26	D	1050	BCR	C38-C26-C27	2.51	118.94	113.60
23	B	1009	CLA	O2A-CGA-O1A	-2.51	117.36	123.63
23	D	1008	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
30	H	1058	DGD	C2G-O2G-C1B	-2.50	111.81	117.80
23	C	1025	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
23	b	6016	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
23	C	1028	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
23	B	1011	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
29	d	6061	MGE	C2G-O2G-C1B	-2.50	111.81	117.80
29	d	6062	MGE	C2G-O2G-C1B	-2.50	111.81	117.80
23	B	1018	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
26	t	1046	BCR	C29-C30-C25	-2.50	106.81	110.44
23	b	6012	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
23	b	6023	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
23	d	6004	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
23	c	6036	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
23	C	1036	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
29	L	1061	MGE	C2G-O2G-C1B	-2.50	111.82	117.80
23	c	6027	CLA	O2D-CGD-O1D	-2.50	118.99	123.85
23	b	6021	CLA	O2D-CGD-O1D	-2.50	118.99	123.85
23	B	1021	CLA	O2D-CGD-O1D	-2.50	118.99	123.85
23	c	6026	CLA	C2A-C1A-CHA	-2.50	119.53	123.87
27	a	6063	LHG	C5-O7-C7	-2.50	111.82	117.80
23	d	6008	CLA	O2D-CGD-O1D	-2.50	118.99	123.85
23	b	6019	CLA	CHB-C1B-NB	-2.50	120.31	124.05
23	c	6033	CLA	O2D-CGD-O1D	-2.49	118.99	123.85
23	C	1035	CLA	O2D-CGD-O1D	-2.49	118.99	123.85
23	c	6030	CLA	O2D-CGD-O1D	-2.49	118.99	123.85
23	c	6035	CLA	O2D-CGD-O1D	-2.49	118.99	123.85
23	A	1006	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
30	c	6055	DGD	C2G-O2G-C1B	-2.49	111.83	117.80
23	C	1030	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
23	b	6022	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
26	D	1050	BCR	C28-C27-C26	-2.49	109.61	114.06
26	d	6050	BCR	C28-C27-C26	-2.49	109.61	114.06
30	c	6056	DGD	C2G-O2G-C1B	-2.49	111.83	117.80
23	c	6031	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
23	b	6009	CLA	O2A-CGA-O1A	-2.49	117.40	123.63
23	C	1033	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
23	D	1004	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
26	C	1054	BCR	C30-C25-C24	2.49	122.40	115.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	c	6028	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
23	C	1034	CLA	O2D-CGD-O1D	-2.49	119.01	123.85
23	B	1024	CLA	CHB-C4A-NA	2.49	127.99	124.40
23	a	6006	CLA	O2D-CGD-O1D	-2.48	119.02	123.85
23	B	1013	CLA	O2D-CGD-O1D	-2.48	119.02	123.85
23	C	1037	CLA	O2D-CGD-O1D	-2.48	119.02	123.85
23	D	1005	CLA	O2D-CGD-O1D	-2.48	119.02	123.85
23	C	1026	CLA	C2A-C1A-CHA	-2.48	119.56	123.87
23	B	1012	CLA	O2D-CGD-O1D	-2.48	119.02	123.85
23	C	1027	CLA	O2D-CGD-O1D	-2.48	119.02	123.85
26	d	6050	BCR	C38-C26-C27	2.48	118.88	113.60
23	B	1022	CLA	O2D-CGD-O1D	-2.48	119.03	123.85
23	B	1016	CLA	O2D-CGD-O1D	-2.48	119.03	123.85
23	B	1019	CLA	CHB-C1B-NB	-2.48	120.34	124.05
23	C	1026	CLA	CHC-C1C-C2C	-2.47	119.92	126.95
23	B	1022	CLA	CHB-C4A-NA	2.47	127.97	124.40
25	d	6042	PQ9	C35-C33-C32	2.47	126.71	121.17
23	H	1017	CLA	O2D-CGD-O1D	-2.47	119.04	123.85
23	d	6005	CLA	O2D-CGD-O1D	-2.47	119.05	123.85
26	T	6046	BCR	C38-C26-C25	-2.47	121.79	124.48
23	b	6022	CLA	CHB-C4A-NA	2.47	127.96	124.40
23	b	6009	CLA	O1D-CGD-CBD	-2.47	119.66	124.52
23	b	6013	CLA	O2D-CGD-O1D	-2.46	119.05	123.85
23	c	6037	CLA	O2D-CGD-O1D	-2.46	119.06	123.85
23	B	1009	CLA	O1D-CGD-CBD	-2.46	119.66	124.52
23	c	6034	CLA	CMB-C2B-C1B	2.46	129.17	125.42
23	c	6026	CLA	CHC-C1C-C2C	-2.46	119.96	126.95
23	C	1032	CLA	O2D-CGD-O1D	-2.45	119.07	123.85
23	b	6019	CLA	C6-C5-C3	-2.45	107.49	113.47
23	A	1003	CLA	O2D-CGD-O1D	-2.45	119.08	123.85
23	a	6003	CLA	O2D-CGD-O1D	-2.45	119.08	123.85
23	B	1019	CLA	C6-C5-C3	-2.45	107.50	113.47
23	b	6017	CLA	O2D-CGD-O1D	-2.45	119.08	123.85
26	C	1054	BCR	C29-C30-C25	-2.44	106.89	110.44
23	a	6007	CLA	O2A-CGA-O1A	-2.44	117.52	123.63
23	A	1007	CLA	O2A-CGA-O1A	-2.44	117.53	123.63
23	b	6024	CLA	CHC-C1C-C2C	-2.44	120.03	126.95
24	a	6039	PHO	O2D-CGD-O1D	-2.44	119.11	123.85
23	b	6022	CLA	C2D-C1D-ND	2.43	112.53	110.13
26	c	6054	BCR	C29-C30-C25	-2.43	106.91	110.44
23	c	6032	CLA	O2D-CGD-O1D	-2.43	119.12	123.85
23	B	1024	CLA	CHC-C1C-C2C	-2.43	120.05	126.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	B	1009	CLA	CHC-C1C-C2C	-2.42	120.07	126.95
23	B	1022	CLA	C2D-C1D-ND	2.42	112.52	110.13
23	B	1014	CLA	C3B-C4B-NB	2.42	112.69	110.53
23	b	6009	CLA	CHC-C1C-C2C	-2.42	120.08	126.95
23	b	6014	CLA	C3B-C4B-NB	2.42	112.69	110.53
24	A	1039	PHO	O2D-CGD-O1D	-2.41	119.15	123.85
23	B	1015	CLA	C4D-CHA-C1A	-2.41	118.37	121.24
23	b	6015	CLA	C4D-CHA-C1A	-2.41	118.37	121.24
24	a	6039	PHO	CMA-C3A-C4A	-2.41	109.43	114.61
23	b	6014	CLA	CBB-CAB-C3B	-2.41	115.50	127.53
23	B	1022	CLA	CHC-C1C-C2C	-2.40	120.12	126.95
23	b	6022	CLA	CHC-C1C-C2C	-2.40	120.12	126.95
23	B	1024	CLA	C4C-C3C-C2C	-2.40	103.40	106.89
23	B	1014	CLA	CBB-CAB-C3B	-2.40	115.54	127.53
23	A	1007	CLA	CHC-C1C-C2C	-2.40	120.14	126.95
23	A	1007	CLA	CMC-C2C-C1C	2.39	128.77	125.03
23	a	6007	CLA	CMC-C2C-C1C	2.39	128.77	125.03
24	A	1039	PHO	CMA-C3A-C4A	-2.39	109.46	114.61
23	a	6007	CLA	CHC-C1C-C2C	-2.39	120.17	126.95
23	b	6024	CLA	C4C-C3C-C2C	-2.38	103.42	106.89
23	C	1026	CLA	CAC-C3C-C4C	2.38	127.89	124.79
23	c	6026	CLA	CAC-C3C-C4C	2.38	127.89	124.79
23	B	1022	CLA	C16-C15-C13	-2.38	108.05	115.97
23	b	6022	CLA	C16-C15-C13	-2.38	108.05	115.97
26	D	1050	BCR	C8-C7-C6	-2.38	120.65	127.00
26	c	6054	BCR	C8-C7-C6	-2.37	120.66	127.00
25	A	1043	PQ9	C26-C27-C28	-2.37	122.20	127.62
26	d	6050	BCR	C8-C7-C6	-2.37	120.67	127.00
26	D	1050	BCR	C35-C13-C14	-2.37	118.98	122.82
23	B	1014	CLA	C2A-C1A-CHA	-2.37	119.76	123.87
23	b	6014	CLA	C2A-C1A-CHA	-2.37	119.76	123.87
23	D	1004	CLA	CMC-C2C-C1C	2.36	128.73	125.03
23	C	1035	CLA	CMC-C2C-C1C	2.36	128.73	125.03
23	c	6035	CLA	CMC-C2C-C1C	2.36	128.72	125.03
26	d	6050	BCR	C35-C13-C14	-2.36	118.99	122.82
23	c	6034	CLA	CHC-C1C-C2C	-2.36	120.24	126.95
23	b	6015	CLA	O2A-CGA-O1A	-2.36	117.73	123.63
26	a	6044	BCR	C36-C18-C17	-2.36	119.00	122.82
23	c	6026	CLA	CHB-C4A-NA	2.36	127.80	124.40
23	B	1015	CLA	O2A-CGA-O1A	-2.36	117.74	123.63
26	A	1044	BCR	C36-C18-C17	-2.35	119.00	122.82
26	C	1054	BCR	C8-C7-C6	-2.35	120.71	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	d	6004	CLA	CMC-C2C-C1C	2.35	128.71	125.03
23	H	1017	CLA	CMC-C2C-C1C	2.35	128.71	125.03
23	c	6034	CLA	O2A-CGA-O1A	-2.35	117.75	123.63
23	b	6009	CLA	CMC-C2C-C1C	2.35	128.71	125.03
23	B	1019	CLA	CHC-C1C-C2C	-2.35	120.28	126.95
23	C	1027	CLA	CMC-C2C-C1C	2.35	128.70	125.03
23	b	6020	CLA	CMC-C2C-C1C	2.35	128.70	125.03
23	b	6019	CLA	CHC-C1C-C2C	-2.35	120.28	126.95
23	B	1009	CLA	CMC-C2C-C1C	2.34	128.70	125.03
23	B	1010	CLA	CHB-C4A-NA	2.34	127.78	124.40
23	C	1034	CLA	CMC-C2C-C1C	2.34	128.70	125.03
23	b	6010	CLA	CHB-C4A-NA	2.34	127.78	124.40
23	B	1020	CLA	CMC-C2C-C1C	2.34	128.69	125.03
23	b	6010	CLA	CMC-C2C-C1C	2.34	128.69	125.03
23	b	6017	CLA	CMC-C2C-C1C	2.34	128.69	125.03
23	C	1037	CLA	CMC-C2C-C1C	2.34	128.69	125.03
23	c	6032	CLA	CMC-C2C-C1C	2.34	128.69	125.03
23	C	1030	CLA	CMC-C2C-C1C	2.34	128.69	125.03
23	b	6016	CLA	CMC-C2C-C1C	2.34	128.69	125.03
23	C	1026	CLA	CHB-C4A-NA	2.34	127.77	124.40
23	B	1024	CLA	CHB-C1B-NB	-2.34	120.54	124.05
23	c	6028	CLA	CMC-C2C-C1C	2.34	128.69	125.03
23	c	6037	CLA	CMC-C2C-C1C	2.34	128.69	125.03
23	B	1014	CLA	CHB-C1B-C2B	-2.34	120.64	127.43
23	C	1025	CLA	CMC-C2C-C1C	2.34	128.68	125.03
23	b	6014	CLA	CHB-C1B-C2B	-2.33	120.65	127.43
23	B	1023	CLA	CMC-C2C-C1C	2.33	128.68	125.03
23	B	1018	CLA	CMC-C2C-C1C	2.33	128.68	125.03
23	b	6023	CLA	CMC-C2C-C1C	2.33	128.68	125.03
23	c	6029	CLA	CHC-C1C-C2C	-2.33	120.32	126.95
23	D	1008	CLA	CMC-C2C-C1C	2.33	128.68	125.03
23	C	1028	CLA	CMC-C2C-C1C	2.33	128.68	125.03
23	d	6005	CLA	CMC-C2C-C1C	2.33	128.68	125.03
23	C	1031	CLA	CMC-C2C-C1C	2.33	128.67	125.03
23	c	6030	CLA	CMC-C2C-C1C	2.33	128.67	125.03
23	b	6024	CLA	CHB-C1B-NB	-2.33	120.56	124.05
23	B	1013	CLA	CMC-C2C-C1C	2.33	128.67	125.03
23	c	6027	CLA	CMC-C2C-C1C	2.33	128.67	125.03
23	C	1029	CLA	CHC-C1C-C2C	-2.33	120.34	126.95
23	b	6013	CLA	CMC-C2C-C1C	2.33	128.67	125.03
23	D	1005	CLA	CMC-C2C-C1C	2.32	128.66	125.03
23	C	1033	CLA	CMC-C2C-C1C	2.32	128.66	125.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	a	6006	CLA	CMC-C2C-C1C	2.32	128.66	125.03
31	V	1041	HEM	C1B-NB-C4B	2.32	107.95	105.21
23	B	1016	CLA	CMC-C2C-C1C	2.32	128.66	125.03
23	C	1036	CLA	CMC-C2C-C1C	2.32	128.66	125.03
23	c	6036	CLA	CMC-C2C-C1C	2.32	128.66	125.03
23	c	6030	CLA	CHC-C1C-C2C	-2.32	120.36	126.95
23	A	1006	CLA	CMC-C2C-C1C	2.32	128.66	125.03
23	C	1032	CLA	CMC-C2C-C1C	2.32	128.66	125.03
23	c	6033	CLA	CMC-C2C-C1C	2.32	128.66	125.03
23	C	1025	CLA	CHC-C1C-C2C	-2.32	120.36	126.95
23	b	6017	CLA	CHC-C1C-C2C	-2.32	120.36	126.95
23	B	1019	CLA	O2D-CGD-CBD	2.32	115.28	111.23
23	A	1003	CLA	CMC-C2C-C1C	2.32	128.65	125.03
23	C	1035	CLA	CHC-C1C-C2C	-2.32	120.37	126.95
23	c	6031	CLA	CMC-C2C-C1C	2.32	128.65	125.03
31	v	6041	HEM	C3B-C2B-C1B	2.31	108.15	106.41
23	b	6018	CLA	CMC-C2C-C1C	2.31	128.65	125.03
23	b	6021	CLA	CMC-C2C-C1C	2.31	128.65	125.03
23	C	1027	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
23	H	1017	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
23	b	6013	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
23	c	6035	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
23	B	1013	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
23	B	1012	CLA	CMC-C2C-C1C	2.31	128.65	125.03
23	A	1007	CLA	CMB-C2B-C1B	2.31	128.94	125.42
23	D	1004	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
23	B	1010	CLA	CMC-C2C-C1C	2.31	128.64	125.03
23	B	1021	CLA	CMC-C2C-C1C	2.31	128.64	125.03
23	c	6025	CLA	CMC-C2C-C1C	2.31	128.64	125.03
23	C	1033	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
23	c	6036	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
23	b	6012	CLA	CMC-C2C-C1C	2.31	128.64	125.03
23	B	1011	CLA	CMC-C2C-C1C	2.31	128.64	125.03
23	C	1030	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
23	c	6032	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
23	A	1003	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
23	c	6027	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
23	c	6025	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
23	c	6033	CLA	CHC-C1C-C2C	-2.31	120.40	126.95
23	C	1032	CLA	CHC-C1C-C2C	-2.31	120.40	126.95
23	a	6003	CLA	CMC-C2C-C1C	2.30	128.63	125.03
25	d	6042	PQ9	C12-C11-C2	-2.30	106.08	112.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	C	1037	CLA	CHC-C1C-C2C	-2.30	120.40	126.95
23	a	6006	CLA	CHC-C1C-C2C	-2.30	120.40	126.95
23	b	6020	CLA	CHC-C1C-C2C	-2.30	120.40	126.95
23	B	1018	CLA	CHC-C1C-C2C	-2.30	120.40	126.95
23	B	1020	CLA	CHC-C1C-C2C	-2.30	120.40	126.95
23	a	6007	CLA	CMB-C2B-C1B	2.30	128.93	125.42
23	d	6008	CLA	CMC-C2C-C1C	2.30	128.63	125.03
23	C	1034	CLA	CHC-C1C-C2C	-2.30	120.40	126.95
23	D	1008	CLA	CHC-C1C-C2C	-2.30	120.40	126.95
23	C	1036	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
23	b	6012	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
23	a	6003	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
31	v	6041	HEM	C1B-NB-C4B	2.30	107.93	105.21
23	d	6004	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
23	c	6029	CLA	CMC-C2C-C1C	2.30	128.63	125.03
23	C	1028	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
23	C	1031	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
23	d	6005	CLA	CHC-C1C-C2C	-2.30	120.42	126.95
23	D	1005	CLA	CHC-C1C-C2C	-2.30	120.42	126.95
23	d	6008	CLA	CHC-C1C-C2C	-2.30	120.42	126.95
23	B	1023	CLA	CHC-C1C-C2C	-2.30	120.42	126.95
23	b	6011	CLA	CMC-C2C-C1C	2.30	128.62	125.03
31	V	1041	HEM	C3B-C2B-C1B	2.30	108.14	106.41
23	b	6016	CLA	CHC-C1C-C2C	-2.30	120.42	126.95
31	E	1040	HEM	C1B-NB-C4B	2.30	107.92	105.21
23	B	1012	CLA	CHC-C1C-C2C	-2.29	120.43	126.95
23	b	6018	CLA	CHC-C1C-C2C	-2.29	120.43	126.95
23	c	6037	CLA	CHC-C1C-C2C	-2.29	120.43	126.95
23	b	6019	CLA	O2D-CGD-CBD	2.29	115.24	111.23
26	B	1047	BCR	C3-C4-C5	-2.29	109.97	114.06
23	b	6023	CLA	CHC-C1C-C2C	-2.29	120.43	126.95
23	c	6029	CLA	C4C-C3C-C2C	-2.29	103.55	106.89
23	C	1029	CLA	CMC-C2C-C1C	2.29	128.62	125.03
23	B	1016	CLA	CHC-C1C-C2C	-2.29	120.43	126.95
23	A	1007	CLA	CAA-C2A-C1A	-2.29	104.46	111.97
23	C	1029	CLA	C4C-C3C-C2C	-2.29	103.56	106.89
23	a	6007	CLA	CAA-C2A-C1A	-2.29	104.47	111.97
23	b	6021	CLA	CHC-C1C-C2C	-2.29	120.44	126.95
31	E	1040	HEM	C3B-C2B-C1B	2.29	108.13	106.41
23	c	6028	CLA	CHC-C1C-C2C	-2.29	120.44	126.95
23	B	1021	CLA	CHC-C1C-C2C	-2.29	120.45	126.95
23	B	1011	CLA	CHC-C1C-C2C	-2.29	120.45	126.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	B	1019	CLA	CAA-C2A-C3A	2.29	119.17	113.00
23	c	6031	CLA	CHC-C1C-C2C	-2.28	120.45	126.95
23	b	6019	CLA	CAA-C2A-C3A	2.28	119.16	113.00
23	A	1006	CLA	CHC-C1C-C2C	-2.28	120.47	126.95
31	e	6040	HEM	C3B-C2B-C1B	2.28	108.12	106.41
31	e	6040	HEM	C1B-NB-C4B	2.27	107.90	105.21
26	c	6054	BCR	C36-C18-C17	-2.27	119.14	122.82
23	b	6011	CLA	CHC-C1C-C2C	-2.27	120.50	126.95
26	b	6047	BCR	C3-C4-C5	-2.27	110.01	114.06
26	B	1048	BCR	C1-C6-C5	-2.26	119.55	122.64
26	C	1054	BCR	C36-C18-C17	-2.25	119.17	122.82
26	D	1050	BCR	C36-C18-C17	-2.25	119.17	122.82
25	d	6042	PQ9	C36-C35-C33	2.25	120.65	113.19
25	a	6043	PQ9	C16-C17-C18	-2.25	122.48	127.62
26	d	6050	BCR	C36-C18-C17	-2.24	119.18	122.82
23	b	6024	CLA	CBB-CAB-C3B	-2.24	116.31	127.53
23	B	1024	CLA	CBB-CAB-C3B	-2.24	116.32	127.53
25	A	1043	PQ9	C41-C40-C38	-2.24	105.75	113.19
23	b	6010	CLA	CGD-CBD-CAD	2.24	118.10	110.85
26	k	6051	BCR	C29-C30-C25	-2.24	107.19	110.44
26	b	6048	BCR	C1-C6-C5	-2.23	119.58	122.64
26	K	1051	BCR	C34-C9-C10	-2.23	119.20	122.82
26	k	6051	BCR	C34-C9-C10	-2.23	119.20	122.82
23	c	6026	CLA	CMD-C2D-C3D	-2.23	122.57	127.69
23	C	1026	CLA	CMC-C2C-C1C	2.23	128.52	125.03
23	C	1026	CLA	CMD-C2D-C3D	-2.23	122.58	127.69
23	b	6014	CLA	O2A-CGA-CBA	2.23	118.63	111.83
23	B	1010	CLA	CGD-CBD-CAD	2.23	118.06	110.85
23	c	6034	CLA	O2A-CGA-CBA	2.22	118.62	111.83
23	B	1014	CLA	O2A-CGA-CBA	2.22	118.61	111.83
26	K	1051	BCR	C29-C30-C25	-2.22	107.21	110.44
26	T	6046	BCR	C8-C7-C6	-2.22	121.07	127.00
26	b	6048	BCR	C23-C24-C25	-2.22	121.07	127.00
23	B	1015	CLA	C16-C15-C13	-2.22	108.60	115.97
25	A	1043	PQ9	C16-C17-C18	-2.22	122.55	127.62
31	V	1041	HEM	C3B-C4B-NB	-2.21	107.88	109.47
26	b	6047	BCR	C37-C22-C21	-2.21	119.23	122.82
26	b	6045	BCR	C24-C25-C26	-2.21	116.47	121.56
23	b	6015	CLA	C16-C15-C13	-2.21	108.63	115.97
26	B	1048	BCR	C23-C24-C25	-2.21	121.10	127.00
23	c	6026	CLA	CMC-C2C-C1C	2.20	128.47	125.03
23	B	1022	CLA	CBB-CAB-C3B	-2.20	116.54	127.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	e	6040	HEM	C3B-C4B-NB	-2.20	107.89	109.47
26	B	1047	BCR	C37-C22-C21	-2.19	119.26	122.82
25	a	6043	PQ9	C41-C40-C38	-2.19	105.92	113.19
26	K	1051	BCR	C8-C7-C6	-2.19	121.14	127.00
23	b	6022	CLA	CBB-CAB-C3B	-2.19	116.57	127.53
23	B	1024	CLA	O2A-CGA-O1A	-2.19	118.15	123.63
26	B	1045	BCR	C24-C25-C26	-2.19	116.51	121.56
26	k	6051	BCR	C8-C7-C6	-2.19	121.15	127.00
23	b	6024	CLA	O2A-CGA-O1A	-2.18	118.17	123.63
23	b	6019	CLA	OBD-CAD-C3D	-2.18	123.31	128.42
23	B	1015	CLA	CHC-C1C-C2C	-2.18	120.75	126.95
25	D	1042	PQ9	C45-C43-C44	2.18	119.61	114.59
23	B	1019	CLA	OBD-CAD-C3D	-2.18	123.33	128.42
23	b	6015	CLA	CHC-C1C-C2C	-2.17	120.77	126.95
26	k	6051	BCR	C27-C26-C25	-2.17	119.77	122.70
31	E	1040	HEM	C3B-C4B-NB	-2.17	107.91	109.47
31	v	6041	HEM	C3B-C4B-NB	-2.17	107.91	109.47
23	c	6029	CLA	CMD-C2D-C3D	-2.17	122.72	127.69
26	K	1051	BCR	C27-C26-C25	-2.17	119.78	122.70
26	B	1047	BCR	C36-C18-C17	-2.16	119.31	122.82
23	C	1029	CLA	CMD-C2D-C3D	-2.16	122.74	127.69
26	b	6047	BCR	C36-C18-C17	-2.16	119.32	122.82
26	d	6050	BCR	C24-C25-C26	-2.16	116.59	121.56
25	A	1043	PQ9	C34-C33-C32	-2.15	118.09	123.63
26	K	1051	BCR	C3-C4-C5	-2.15	110.23	114.06
23	b	6019	CLA	C4D-CHA-C1A	-2.15	118.69	121.24
23	B	1019	CLA	C4D-CHA-C1A	-2.14	118.69	121.24
26	C	1054	BCR	C35-C13-C14	-2.14	119.34	122.82
23	B	1019	CLA	CAC-C3C-C4C	2.14	127.58	124.79
23	b	6019	CLA	O1A-CGA-CBA	-2.14	115.41	123.78
23	b	6019	CLA	CAC-C3C-C4C	2.14	127.58	124.79
26	D	1050	BCR	C24-C25-C26	-2.14	116.62	121.56
26	t	1046	BCR	C24-C25-C26	2.14	126.48	121.56
26	k	6051	BCR	C3-C4-C5	-2.14	110.24	114.06
23	b	6014	CLA	CAC-C3C-C4C	2.14	127.57	124.79
23	A	1007	CLA	CAC-C3C-C4C	2.14	127.57	124.79
23	B	1015	CLA	CBC-CAC-C3C	-2.14	106.63	112.42
26	B	1048	BCR	C28-C27-C26	-2.14	110.25	114.06
23	b	6015	CLA	CBC-CAC-C3C	-2.13	106.64	112.42
31	V	1041	HEM	C2A-C1A-NA	-2.13	107.79	110.15
23	B	1019	CLA	O1A-CGA-CBA	-2.13	115.45	123.78
31	v	6041	HEM	C2A-C1A-NA	-2.13	107.79	110.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	B	1014	CLA	CAC-C3C-C4C	2.13	127.56	124.79
26	c	6054	BCR	C35-C13-C14	-2.12	119.38	122.82
23	B	1024	CLA	C6-C5-C3	-2.12	108.30	113.47
23	b	6024	CLA	C6-C5-C3	-2.12	108.31	113.47
23	B	1015	CLA	CHB-C1B-NB	-2.12	120.88	124.05
23	B	1019	CLA	CGD-CBD-CAD	2.11	117.69	110.85
25	a	6043	PQ9	C39-C38-C40	2.11	118.89	115.23
26	k	6051	BCR	C24-C25-C26	-2.11	116.70	121.56
23	b	6019	CLA	CGD-CBD-CAD	2.11	117.67	110.85
23	b	6010	CLA	C4D-C3D-CAD	2.11	110.40	108.11
23	B	1019	CLA	C11-C10-C8	-2.11	108.96	115.97
23	b	6019	CLA	C11-C10-C8	-2.11	108.96	115.97
26	b	6048	BCR	C28-C27-C26	-2.11	110.30	114.06
23	a	6007	CLA	CAC-C3C-C4C	2.11	127.53	124.79
25	D	1042	PQ9	C41-C40-C38	-2.10	106.23	113.19
23	b	6022	CLA	C6-C7-C8	-2.10	108.99	115.97
23	b	6015	CLA	CHB-C1B-NB	-2.10	120.90	124.05
23	c	6034	CLA	CHB-C1B-NB	-2.10	120.90	124.05
23	c	6025	CLA	CHB-C1B-NB	-2.10	120.91	124.05
23	B	1010	CLA	C4D-C3D-CAD	2.09	110.38	108.11
23	b	6020	CLA	CHB-C1B-NB	-2.09	120.91	124.05
23	c	6037	CLA	CHB-C1B-NB	-2.09	120.91	124.05
31	e	6040	HEM	C2A-C1A-NA	-2.09	107.83	110.15
26	K	1051	BCR	C24-C25-C26	-2.09	116.73	121.56
23	C	1034	CLA	CHB-C1B-NB	-2.09	120.91	124.05
23	B	1022	CLA	C6-C7-C8	-2.09	109.01	115.97
31	E	1040	HEM	C2A-C1A-NA	-2.09	107.83	110.15
25	d	6042	PQ9	C25-C23-C22	2.09	125.86	121.17
23	c	6025	CLA	O1D-CGD-CBD	-2.09	120.40	124.52
26	B	1048	BCR	C1-C6-C7	2.09	121.31	115.65
23	B	1024	CLA	CAA-C2A-C1A	-2.08	105.14	111.97
23	C	1030	CLA	CHB-C1B-NB	-2.08	120.92	124.05
23	d	6004	CLA	CHB-C1B-NB	-2.08	120.92	124.05
23	C	1025	CLA	CHB-C1B-NB	-2.08	120.92	124.05
23	b	6024	CLA	CAA-C2A-C1A	-2.08	105.15	111.97
23	D	1008	CLA	CHB-C1B-NB	-2.08	120.93	124.05
23	b	6017	CLA	O1D-CGD-CBD	-2.08	120.42	124.52
23	d	6008	CLA	O1D-CGD-CBD	-2.08	120.42	124.52
23	A	1006	CLA	CHB-C1B-NB	-2.08	120.93	124.05
26	b	6045	BCR	C27-C26-C25	-2.08	119.90	122.70
23	B	1015	CLA	C4B-C3B-C2B	-2.08	104.72	107.30
23	c	6028	CLA	O1D-CGD-CBD	-2.08	120.42	124.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	C	1037	CLA	CHB-C1B-NB	-2.08	120.94	124.05
23	C	1026	CLA	CBB-CAB-C3B	-2.08	117.16	127.53
23	c	6035	CLA	CHB-C1B-NB	-2.07	120.94	124.05
23	C	1025	CLA	O1D-CGD-CBD	-2.07	120.43	124.52
23	C	1028	CLA	O1D-CGD-CBD	-2.07	120.43	124.52
26	T	6046	BCR	C24-C25-C26	2.07	126.33	121.56
26	b	6048	BCR	C1-C6-C7	2.07	121.27	115.65
23	b	6012	CLA	CHB-C1B-NB	-2.07	120.94	124.05
23	c	6026	CLA	CBB-CAB-C3B	-2.07	117.18	127.53
23	c	6031	CLA	O1D-CGD-CBD	-2.07	120.44	124.52
23	C	1029	CLA	C6-C7-C8	-2.07	109.09	115.97
23	b	6015	CLA	C4B-C3B-C2B	-2.07	104.73	107.30
23	D	1008	CLA	O1D-CGD-CBD	-2.07	120.44	124.52
23	b	6023	CLA	O1D-CGD-CBD	-2.07	120.44	124.52
23	B	1022	CLA	C4C-C3C-C2C	-2.07	103.88	106.89
23	a	6003	CLA	CHB-C1B-NB	-2.07	120.95	124.05
23	H	1017	CLA	O1D-CGD-CBD	-2.07	120.44	124.52
23	c	6032	CLA	O1D-CGD-CBD	-2.07	120.44	124.52
23	b	6024	CLA	CGD-CBD-CAD	-2.07	104.16	110.85
23	c	6029	CLA	C6-C7-C8	-2.06	109.10	115.97
23	C	1031	CLA	CHB-C1B-NB	-2.06	120.95	124.05
23	C	1030	CLA	O1D-CGD-CBD	-2.06	120.45	124.52
23	c	6030	CLA	O1D-CGD-CBD	-2.06	120.45	124.52
23	B	1018	CLA	CHB-C1B-NB	-2.06	120.95	124.05
23	C	1031	CLA	O1D-CGD-CBD	-2.06	120.45	124.52
26	k	6051	BCR	C35-C13-C14	-2.06	119.47	122.82
23	H	1017	CLA	CHB-C1B-NB	-2.06	120.96	124.05
23	d	6008	CLA	CHB-C1B-NB	-2.06	120.96	124.05
23	c	6036	CLA	CHB-C1B-NB	-2.06	120.96	124.05
23	c	6035	CLA	O1D-CGD-CBD	-2.06	120.45	124.52
23	B	1016	CLA	CHB-C1B-NB	-2.06	120.96	124.05
23	B	1020	CLA	CHB-C1B-NB	-2.06	120.96	124.05
23	c	6027	CLA	CHB-C1B-NB	-2.06	120.96	124.05
26	A	1044	BCR	C35-C13-C14	-2.06	119.48	122.82
26	B	1045	BCR	C27-C26-C25	-2.06	119.92	122.70
23	c	6027	CLA	O1D-CGD-CBD	-2.06	120.46	124.52
23	b	6015	CLA	CMA-C3A-C4A	-2.06	106.24	111.77
23	B	1022	CLA	CAC-C3C-C2C	2.06	131.34	127.56
23	C	1032	CLA	CHB-C1B-NB	-2.06	120.96	124.05
23	C	1035	CLA	O1D-CGD-CBD	-2.06	120.46	124.52
23	B	1015	CLA	CMA-C3A-C4A	-2.06	106.24	111.77
23	B	1023	CLA	O1D-CGD-CBD	-2.06	120.46	124.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	C	1028	CLA	CHB-C1B-NB	-2.06	120.97	124.05
23	C	1035	CLA	CHB-C1B-NB	-2.06	120.97	124.05
23	b	6009	CLA	CHB-C1B-NB	-2.06	120.97	124.05
23	c	6028	CLA	CHB-C1B-NB	-2.06	120.97	124.05
23	c	6037	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
23	a	6006	CLA	CHB-C1B-NB	-2.05	120.97	124.05
25	d	6042	PQ9	C3-C2-C1	2.05	121.54	118.78
23	d	6005	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
23	b	6018	CLA	CHB-C1B-NB	-2.05	120.97	124.05
23	C	1032	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
23	C	1027	CLA	CHB-C1B-NB	-2.05	120.97	124.05
23	c	6030	CLA	CHB-C1B-NB	-2.05	120.97	124.05
23	b	6022	CLA	C4C-C3C-C2C	-2.05	103.91	106.89
23	C	1034	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
23	B	1024	CLA	CGD-CBD-CAD	-2.05	104.21	110.85
23	b	6010	CLA	O1A-CGA-CBA	-2.05	115.76	123.78
23	B	1021	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
23	b	6016	CLA	CHB-C1B-NB	-2.05	120.97	124.05
23	b	6017	CLA	CHB-C1B-NB	-2.05	120.97	124.05
26	T	6046	BCR	C24-C23-C22	2.05	129.27	126.23
23	a	6006	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
23	D	1004	CLA	CHB-C1B-NB	-2.05	120.97	124.05
26	a	6044	BCR	C35-C13-C14	-2.05	119.50	122.82
23	B	1012	CLA	CHB-C1B-NB	-2.05	120.98	124.05
23	c	6032	CLA	CHB-C1B-NB	-2.05	120.98	124.05
23	b	6018	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
23	B	1023	CLA	CHB-C1B-NB	-2.05	120.98	124.05
24	A	1038	PHO	O1D-CGD-CBD	-2.05	121.62	124.72
23	b	6013	CLA	CHB-C1B-NB	-2.05	120.98	124.05
23	B	1010	CLA	O1A-CGA-CBA	-2.05	115.78	123.78
23	B	1012	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
24	d	6038	PHO	O2D-CGD-O1D	-2.05	119.86	123.85
23	C	1033	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
23	C	1033	CLA	CHB-C1B-NB	-2.05	120.98	124.05
23	A	1003	CLA	CHB-C1B-NB	-2.04	120.98	124.05
23	c	6031	CLA	CHB-C1B-NB	-2.04	120.98	124.05
23	b	6011	CLA	CHB-C1B-NB	-2.04	120.98	124.05
23	B	1018	CLA	O1D-CGD-CBD	-2.04	120.49	124.52
26	K	1051	BCR	C35-C13-C14	-2.04	119.51	122.82
23	b	6021	CLA	O1D-CGD-CBD	-2.04	120.49	124.52
23	b	6022	CLA	CAC-C3C-C2C	2.04	131.31	127.56
23	C	1036	CLA	CHB-C1B-NB	-2.04	120.99	124.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	D	1004	CLA	O1D-CGD-CBD	-2.04	120.50	124.52
23	B	1009	CLA	CHB-C1B-NB	-2.04	120.99	124.05
23	A	1006	CLA	O1D-CGD-CBD	-2.04	120.50	124.52
23	D	1005	CLA	O1D-CGD-CBD	-2.04	120.50	124.52
23	c	6033	CLA	CHB-C1B-NB	-2.04	120.99	124.05
23	C	1027	CLA	O1D-CGD-CBD	-2.04	120.50	124.52
23	B	1013	CLA	CHB-C1B-NB	-2.04	120.99	124.05
23	b	6019	CLA	CBB-CAB-C3B	-2.04	117.35	127.53
23	b	6021	CLA	CHB-C1B-NB	-2.04	121.00	124.05
23	B	1011	CLA	O1D-CGD-CBD	-2.03	120.50	124.52
23	B	1019	CLA	CBB-CAB-C3B	-2.03	117.36	127.53
23	d	6005	CLA	CHB-C1B-NB	-2.03	121.00	124.05
23	b	6011	CLA	O1D-CGD-CBD	-2.03	120.51	124.52
23	b	6013	CLA	O1D-CGD-CBD	-2.03	120.51	124.52
23	C	1037	CLA	O1D-CGD-CBD	-2.03	120.51	124.52
23	D	1005	CLA	CHB-C1B-NB	-2.03	121.00	124.05
23	C	1036	CLA	O1D-CGD-CBD	-2.03	120.51	124.52
23	B	1013	CLA	O1D-CGD-CBD	-2.03	120.52	124.52
23	B	1011	CLA	CHB-C1B-NB	-2.03	121.01	124.05
24	d	6038	PHO	O1D-CGD-CBD	-2.03	121.65	124.72
23	c	6033	CLA	O1D-CGD-CBD	-2.03	120.52	124.52
24	A	1038	PHO	O2D-CGD-O1D	-2.03	119.90	123.85
25	A	1043	PQ9	C15-C16-C17	-2.03	101.99	112.02
23	B	1010	CLA	C4B-C3B-C2B	-2.03	104.78	107.30
23	b	6012	CLA	O1D-CGD-CBD	-2.02	120.52	124.52
23	A	1003	CLA	O1D-CGD-CBD	-2.02	120.53	124.52
26	k	6052	BCR	C27-C26-C25	-2.02	119.97	122.70
23	B	1021	CLA	CHB-C1B-NB	-2.02	121.02	124.05
23	c	6036	CLA	O1D-CGD-CBD	-2.02	120.53	124.52
23	a	6003	CLA	O1D-CGD-CBD	-2.02	120.54	124.52
25	a	6043	PQ9	C15-C16-C17	-2.02	102.05	112.02
26	Z	1053	BCR	C27-C26-C25	-2.01	119.98	122.70
23	d	6004	CLA	O1D-CGD-CBD	-2.01	120.55	124.52
23	b	6023	CLA	CHB-C1B-NB	-2.01	121.03	124.05
23	B	1016	CLA	O1D-CGD-CBD	-2.01	120.55	124.52
23	B	1022	CLA	CMC-C2C-C1C	2.01	128.18	125.03
23	b	6015	CLA	CHB-C1B-C2B	-2.01	121.59	127.43
25	d	6042	PQ9	C11-C2-C1	2.01	118.56	116.91
26	H	1049	BCR	C4-C5-C6	-2.01	119.99	122.70
23	b	6015	CLA	C11-C10-C8	-2.01	109.29	115.97
23	B	1020	CLA	O1D-CGD-CBD	-2.01	120.56	124.52
23	B	1015	CLA	C11-C10-C8	-2.01	109.29	115.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	B	1015	CLA	CHB-C1B-C2B	-2.01	121.60	127.43
23	b	6010	CLA	C4B-C3B-C2B	-2.01	104.81	107.30
23	b	6022	CLA	CMC-C2C-C1C	2.00	128.17	125.03
26	B	1045	BCR	C4-C5-C6	-2.00	120.00	122.70
26	B	1047	BCR	C32-C1-C6	-2.00	107.10	110.24
26	b	6047	BCR	C32-C1-C6	-2.00	107.10	110.24
23	b	6020	CLA	O1D-CGD-CBD	-2.00	120.57	124.52
26	K	1052	BCR	C4-C5-C6	-2.00	120.00	122.70
26	A	1044	BCR	C1-C6-C7	2.00	121.08	115.65
23	b	6014	CLA	CBC-CAC-C3C	-2.00	107.00	112.42

All (86) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
23	A	1007	CLA	C13
23	B	1009	CLA	C8
23	B	1009	CLA	C13
23	B	1009	CLA	CBD
23	B	1014	CLA	C3A
23	B	1019	CLA	C8
23	B	1019	CLA	C13
23	B	1020	CLA	C3A
23	B	1021	CLA	C8
23	B	1021	CLA	C13
23	B	1022	CLA	C8
23	B	1022	CLA	CBD
23	B	1023	CLA	C13
23	B	1023	CLA	CBD
23	B	1024	CLA	C13
23	C	1025	CLA	CBD
23	C	1026	CLA	C8
23	C	1027	CLA	C8
23	C	1027	CLA	C13
23	C	1027	CLA	C3A
23	C	1028	CLA	C8
23	C	1028	CLA	C13
23	C	1028	CLA	C3A
23	C	1029	CLA	C8
23	C	1029	CLA	C3A
23	C	1031	CLA	C8
23	C	1031	CLA	C13
23	C	1031	CLA	CBD

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Mol	Chain	Res	Type	Atom
23	C	1033	CLA	C8
23	C	1033	CLA	C3A
23	C	1034	CLA	C8
23	C	1034	CLA	C2A
23	C	1034	CLA	C3A
23	C	1034	CLA	CBD
23	C	1036	CLA	C8
23	C	1036	CLA	C13
23	C	1037	CLA	C13
23	C	1037	CLA	CBD
23	D	1005	CLA	C8
23	H	1017	CLA	C13
23	a	6007	CLA	C13
23	b	6009	CLA	C8
23	b	6009	CLA	C13
23	b	6009	CLA	CBD
23	b	6014	CLA	C3A
23	b	6017	CLA	C13
23	b	6019	CLA	C8
23	b	6019	CLA	C13
23	b	6020	CLA	C3A
23	b	6021	CLA	C8
23	b	6021	CLA	C13
23	b	6022	CLA	C8
23	b	6022	CLA	CBD
23	b	6023	CLA	C13
23	b	6023	CLA	CBD
23	b	6024	CLA	C13
23	c	6025	CLA	CBD
23	c	6026	CLA	C8
23	c	6027	CLA	C8
23	c	6027	CLA	C13
23	c	6027	CLA	C3A
23	c	6028	CLA	C8
23	c	6028	CLA	C13
23	c	6028	CLA	C3A
23	c	6029	CLA	C8
23	c	6029	CLA	C3A
23	c	6031	CLA	C8
23	c	6031	CLA	C13
23	c	6031	CLA	CBD
23	c	6033	CLA	C8

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Mol	Chain	Res	Type	Atom
23	c	6033	CLA	C3A
23	c	6034	CLA	C8
23	c	6034	CLA	C2A
23	c	6034	CLA	C3A
23	c	6034	CLA	CBD
23	c	6036	CLA	C8
23	c	6036	CLA	C13
23	c	6037	CLA	C13
23	c	6037	CLA	CBD
23	d	6005	CLA	C8
24	A	1038	PHO	C8
24	A	1038	PHO	C13
24	A	1039	PHO	C13
24	a	6039	PHO	C13
24	d	6038	PHO	C8
24	d	6038	PHO	C13

All (2210) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
23	A	1003	CLA	C14-C13-C15-C16
23	A	1006	CLA	C1A-C2A-CAA-CBA
23	A	1006	CLA	C3A-C2A-CAA-CBA
23	A	1006	CLA	C4C-C3C-CAC-CBC
23	A	1006	CLA	CBD-CGD-O2D-CED
23	A	1006	CLA	C6-C7-C8-C9
23	A	1007	CLA	C2C-C3C-CAC-CBC
23	A	1007	CLA	C4C-C3C-CAC-CBC
23	A	1007	CLA	CBD-CGD-O2D-CED
23	B	1009	CLA	C1A-C2A-CAA-CBA
23	B	1009	CLA	CBD-CGD-O2D-CED
23	B	1010	CLA	C1A-C2A-CAA-CBA
23	B	1010	CLA	C3A-C2A-CAA-CBA
23	B	1010	CLA	CAD-CBD-CGD-O1D
23	B	1010	CLA	CBD-CGD-O2D-CED
23	B	1010	CLA	O1D-CGD-O2D-CED
23	B	1011	CLA	CBD-CGD-O2D-CED
23	B	1012	CLA	C3A-C2A-CAA-CBA
23	B	1012	CLA	C2C-C3C-CAC-CBC
23	B	1012	CLA	C4C-C3C-CAC-CBC
23	B	1012	CLA	CBD-CGD-O2D-CED
23	B	1013	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
23	B	1014	CLA	C1A-C2A-CAA-CBA
23	B	1014	CLA	CHA-CBD-CGD-O1D
23	B	1015	CLA	CHA-CBD-CGD-O1D
23	B	1015	CLA	CHA-CBD-CGD-O2D
23	B	1016	CLA	C1A-C2A-CAA-CBA
23	B	1016	CLA	C4B-C3B-CAB-CBB
23	B	1016	CLA	C2C-C3C-CAC-CBC
23	B	1016	CLA	C4C-C3C-CAC-CBC
23	B	1018	CLA	C2B-C3B-CAB-CBB
23	B	1018	CLA	C4B-C3B-CAB-CBB
23	B	1019	CLA	C1A-C2A-CAA-CBA
23	B	1019	CLA	C3A-C2A-CAA-CBA
23	B	1019	CLA	CHA-CBD-CGD-O1D
23	B	1019	CLA	CBD-CGD-O2D-CED
23	B	1020	CLA	C4B-C3B-CAB-CBB
23	B	1020	CLA	CBD-CGD-O2D-CED
23	B	1020	CLA	O2A-C1-C2-C3
23	B	1021	CLA	CBD-CGD-O2D-CED
23	B	1021	CLA	C14-C13-C15-C16
23	B	1022	CLA	C2C-C3C-CAC-CBC
23	B	1022	CLA	C4C-C3C-CAC-CBC
23	B	1022	CLA	CBD-CGD-O2D-CED
23	B	1023	CLA	CBD-CGD-O2D-CED
23	B	1023	CLA	C11-C10-C8-C9
23	B	1023	CLA	C11-C12-C13-C14
23	B	1024	CLA	CBD-CGD-O2D-CED
23	C	1025	CLA	C2B-C3B-CAB-CBB
23	C	1025	CLA	C4B-C3B-CAB-CBB
23	C	1025	CLA	CBD-CGD-O2D-CED
23	C	1026	CLA	C1A-C2A-CAA-CBA
23	C	1026	CLA	C3A-C2A-CAA-CBA
23	C	1026	CLA	CHA-CBD-CGD-O2D
23	C	1027	CLA	C1A-C2A-CAA-CBA
23	C	1027	CLA	CBD-CGD-O2D-CED
23	C	1029	CLA	C4B-C3B-CAB-CBB
23	C	1029	CLA	CBD-CGD-O2D-CED
23	C	1030	CLA	C2B-C3B-CAB-CBB
23	C	1030	CLA	C4B-C3B-CAB-CBB
23	C	1031	CLA	C1A-C2A-CAA-CBA
23	C	1031	CLA	C2B-C3B-CAB-CBB
23	C	1031	CLA	C4B-C3B-CAB-CBB
23	C	1031	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
23	C	1031	CLA	O1D-CGD-O2D-CED
23	C	1032	CLA	C1A-C2A-CAA-CBA
23	C	1032	CLA	C3A-C2A-CAA-CBA
23	C	1032	CLA	CBD-CGD-O2D-CED
23	C	1032	CLA	O2A-C1-C2-C3
23	C	1033	CLA	C2B-C3B-CAB-CBB
23	C	1033	CLA	C4B-C3B-CAB-CBB
23	C	1033	CLA	C2C-C3C-CAC-CBC
23	C	1033	CLA	C4C-C3C-CAC-CBC
23	C	1033	CLA	CAD-CBD-CGD-O1D
23	C	1033	CLA	CAD-CBD-CGD-O2D
23	C	1033	CLA	CBD-CGD-O2D-CED
23	C	1034	CLA	C1A-C2A-CAA-CBA
23	C	1034	CLA	C3A-C2A-CAA-CBA
23	C	1034	CLA	C2C-C3C-CAC-CBC
23	C	1034	CLA	C4C-C3C-CAC-CBC
23	C	1035	CLA	C2B-C3B-CAB-CBB
23	C	1035	CLA	C4B-C3B-CAB-CBB
23	C	1035	CLA	CHA-CBD-CGD-O1D
23	C	1035	CLA	CHA-CBD-CGD-O2D
23	C	1035	CLA	CBD-CGD-O2D-CED
23	C	1035	CLA	C6-C7-C8-C9
23	C	1036	CLA	C1A-C2A-CAA-CBA
23	C	1036	CLA	C2B-C3B-CAB-CBB
23	C	1036	CLA	C4B-C3B-CAB-CBB
23	C	1037	CLA	C1A-C2A-CAA-CBA
23	C	1037	CLA	C2B-C3B-CAB-CBB
23	C	1037	CLA	C4B-C3B-CAB-CBB
23	D	1004	CLA	C3A-C2A-CAA-CBA
23	D	1004	CLA	C2-C3-C5-C6
23	D	1004	CLA	C4-C3-C5-C6
23	D	1005	CLA	CHA-CBD-CGD-O1D
23	D	1005	CLA	CBD-CGD-O2D-CED
23	D	1005	CLA	O2A-C1-C2-C3
23	D	1008	CLA	C1A-C2A-CAA-CBA
23	D	1008	CLA	CBA-CGA-O2A-C1
23	D	1008	CLA	O1A-CGA-O2A-C1
23	D	1008	CLA	CAD-CBD-CGD-O1D
23	D	1008	CLA	CBD-CGD-O2D-CED
23	D	1008	CLA	C4-C3-C5-C6
23	H	1017	CLA	C1A-C2A-CAA-CBA
23	H	1017	CLA	C3A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
23	H	1017	CLA	CBA-CGA-O2A-C1
23	H	1017	CLA	C2C-C3C-CAC-CBC
23	H	1017	CLA	C4C-C3C-CAC-CBC
23	a	6003	CLA	C14-C13-C15-C16
23	a	6006	CLA	C1A-C2A-CAA-CBA
23	a	6006	CLA	C3A-C2A-CAA-CBA
23	a	6006	CLA	C4C-C3C-CAC-CBC
23	a	6006	CLA	CBD-CGD-O2D-CED
23	a	6006	CLA	C6-C7-C8-C9
23	a	6007	CLA	C2C-C3C-CAC-CBC
23	a	6007	CLA	C4C-C3C-CAC-CBC
23	a	6007	CLA	CBD-CGD-O2D-CED
23	b	6009	CLA	C1A-C2A-CAA-CBA
23	b	6009	CLA	CBD-CGD-O2D-CED
23	b	6010	CLA	C1A-C2A-CAA-CBA
23	b	6010	CLA	C3A-C2A-CAA-CBA
23	b	6010	CLA	CAD-CBD-CGD-O1D
23	b	6010	CLA	CBD-CGD-O2D-CED
23	b	6010	CLA	O1D-CGD-O2D-CED
23	b	6011	CLA	CBD-CGD-O2D-CED
23	b	6012	CLA	C3A-C2A-CAA-CBA
23	b	6012	CLA	C2C-C3C-CAC-CBC
23	b	6012	CLA	C4C-C3C-CAC-CBC
23	b	6012	CLA	CBD-CGD-O2D-CED
23	b	6012	CLA	C11-C10-C8-C9
23	b	6013	CLA	C6-C7-C8-C9
23	b	6014	CLA	C1A-C2A-CAA-CBA
23	b	6014	CLA	CHA-CBD-CGD-O1D
23	b	6015	CLA	CHA-CBD-CGD-O1D
23	b	6015	CLA	CHA-CBD-CGD-O2D
23	b	6016	CLA	C1A-C2A-CAA-CBA
23	b	6016	CLA	C4B-C3B-CAB-CBB
23	b	6016	CLA	C2C-C3C-CAC-CBC
23	b	6016	CLA	C4C-C3C-CAC-CBC
23	b	6017	CLA	C1A-C2A-CAA-CBA
23	b	6017	CLA	C3A-C2A-CAA-CBA
23	b	6017	CLA	CBA-CGA-O2A-C1
23	b	6017	CLA	C2C-C3C-CAC-CBC
23	b	6017	CLA	C4C-C3C-CAC-CBC
23	b	6018	CLA	C2B-C3B-CAB-CBB
23	b	6018	CLA	C4B-C3B-CAB-CBB
23	b	6019	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
23	b	6019	CLA	C3A-C2A-CAA-CBA
23	b	6019	CLA	CHA-CBD-CGD-O1D
23	b	6019	CLA	CBD-CGD-O2D-CED
23	b	6020	CLA	C4B-C3B-CAB-CBB
23	b	6020	CLA	CBD-CGD-O2D-CED
23	b	6020	CLA	O2A-C1-C2-C3
23	b	6021	CLA	CBD-CGD-O2D-CED
23	b	6021	CLA	C14-C13-C15-C16
23	b	6022	CLA	C2C-C3C-CAC-CBC
23	b	6022	CLA	C4C-C3C-CAC-CBC
23	b	6022	CLA	CBD-CGD-O2D-CED
23	b	6023	CLA	CBD-CGD-O2D-CED
23	b	6023	CLA	C11-C10-C8-C9
23	b	6023	CLA	C11-C12-C13-C14
23	b	6024	CLA	CBD-CGD-O2D-CED
23	c	6025	CLA	C2B-C3B-CAB-CBB
23	c	6025	CLA	C4B-C3B-CAB-CBB
23	c	6025	CLA	CBD-CGD-O2D-CED
23	c	6026	CLA	C1A-C2A-CAA-CBA
23	c	6026	CLA	C3A-C2A-CAA-CBA
23	c	6026	CLA	CHA-CBD-CGD-O2D
23	c	6027	CLA	C1A-C2A-CAA-CBA
23	c	6027	CLA	CBD-CGD-O2D-CED
23	c	6029	CLA	C4B-C3B-CAB-CBB
23	c	6029	CLA	CBD-CGD-O2D-CED
23	c	6030	CLA	C2B-C3B-CAB-CBB
23	c	6030	CLA	C4B-C3B-CAB-CBB
23	c	6031	CLA	C1A-C2A-CAA-CBA
23	c	6031	CLA	C2B-C3B-CAB-CBB
23	c	6031	CLA	C4B-C3B-CAB-CBB
23	c	6031	CLA	CBD-CGD-O2D-CED
23	c	6031	CLA	O1D-CGD-O2D-CED
23	c	6032	CLA	C1A-C2A-CAA-CBA
23	c	6032	CLA	C3A-C2A-CAA-CBA
23	c	6032	CLA	CBD-CGD-O2D-CED
23	c	6032	CLA	O2A-C1-C2-C3
23	c	6033	CLA	C2B-C3B-CAB-CBB
23	c	6033	CLA	C4B-C3B-CAB-CBB
23	c	6033	CLA	C2C-C3C-CAC-CBC
23	c	6033	CLA	C4C-C3C-CAC-CBC
23	c	6033	CLA	CAD-CBD-CGD-O1D
23	c	6033	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
23	c	6033	CLA	CBD-CGD-O2D-CED
23	c	6034	CLA	C1A-C2A-CAA-CBA
23	c	6034	CLA	C3A-C2A-CAA-CBA
23	c	6034	CLA	C2C-C3C-CAC-CBC
23	c	6034	CLA	C4C-C3C-CAC-CBC
23	c	6034	CLA	CBD-CGD-O2D-CED
23	c	6034	CLA	O2A-C1-C2-C3
23	c	6035	CLA	C2B-C3B-CAB-CBB
23	c	6035	CLA	C4B-C3B-CAB-CBB
23	c	6035	CLA	CHA-CBD-CGD-O1D
23	c	6035	CLA	CHA-CBD-CGD-O2D
23	c	6035	CLA	CBD-CGD-O2D-CED
23	c	6035	CLA	C6-C7-C8-C9
23	c	6036	CLA	C1A-C2A-CAA-CBA
23	c	6036	CLA	C2B-C3B-CAB-CBB
23	c	6036	CLA	C4B-C3B-CAB-CBB
23	c	6037	CLA	C1A-C2A-CAA-CBA
23	c	6037	CLA	C2B-C3B-CAB-CBB
23	c	6037	CLA	C4B-C3B-CAB-CBB
23	d	6004	CLA	C3A-C2A-CAA-CBA
23	d	6004	CLA	C2-C3-C5-C6
23	d	6004	CLA	C4-C3-C5-C6
23	d	6005	CLA	CHA-CBD-CGD-O1D
23	d	6005	CLA	CBD-CGD-O2D-CED
23	d	6005	CLA	O2A-C1-C2-C3
23	d	6008	CLA	C1A-C2A-CAA-CBA
23	d	6008	CLA	CBA-CGA-O2A-C1
23	d	6008	CLA	O1A-CGA-O2A-C1
23	d	6008	CLA	CAD-CBD-CGD-O1D
23	d	6008	CLA	CBD-CGD-O2D-CED
23	d	6008	CLA	C4-C3-C5-C6
24	A	1038	PHO	C1A-C2A-CAA-CBA
24	A	1038	PHO	C3A-C2A-CAA-CBA
24	A	1038	PHO	C2C-C3C-CAC-CBC
24	A	1038	PHO	CBD-CGD-O2D-CED
24	A	1038	PHO	O1D-CGD-O2D-CED
24	A	1038	PHO	C1-C2-C3-C4
24	A	1038	PHO	C1-C2-C3-C5
24	A	1039	PHO	C4C-C3C-CAC-CBC
24	A	1039	PHO	C11-C12-C13-C14
24	a	6039	PHO	C4C-C3C-CAC-CBC
24	a	6039	PHO	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
24	d	6038	PHO	C1A-C2A-CAA-CBA
24	d	6038	PHO	C3A-C2A-CAA-CBA
24	d	6038	PHO	C2C-C3C-CAC-CBC
24	d	6038	PHO	CBD-CGD-O2D-CED
24	d	6038	PHO	O1D-CGD-O2D-CED
24	d	6038	PHO	C1-C2-C3-C4
24	d	6038	PHO	C1-C2-C3-C5
25	D	1042	PQ9	C39-C38-C40-C41
26	A	1044	BCR	C7-C8-C9-C10
26	A	1044	BCR	C7-C8-C9-C34
26	A	1044	BCR	C10-C11-C12-C13
26	A	1044	BCR	C14-C15-C16-C17
26	A	1044	BCR	C15-C16-C17-C18
26	A	1044	BCR	C18-C19-C20-C21
26	A	1044	BCR	C19-C20-C21-C22
26	B	1045	BCR	C6-C7-C8-C9
26	B	1045	BCR	C14-C15-C16-C17
26	B	1045	BCR	C18-C19-C20-C21
26	B	1045	BCR	C20-C21-C22-C23
26	B	1045	BCR	C20-C21-C22-C37
26	B	1047	BCR	C6-C7-C8-C9
26	B	1047	BCR	C10-C11-C12-C13
26	B	1047	BCR	C14-C15-C16-C17
26	B	1047	BCR	C17-C18-C19-C20
26	B	1047	BCR	C18-C19-C20-C21
26	B	1047	BCR	C23-C24-C25-C26
26	B	1047	BCR	C23-C24-C25-C30
26	B	1048	BCR	C6-C7-C8-C9
26	B	1048	BCR	C7-C8-C9-C34
26	B	1048	BCR	C10-C11-C12-C13
26	B	1048	BCR	C11-C12-C13-C14
26	B	1048	BCR	C11-C12-C13-C35
26	B	1048	BCR	C14-C15-C16-C17
26	B	1048	BCR	C15-C16-C17-C18
26	B	1048	BCR	C16-C17-C18-C19
26	B	1048	BCR	C16-C17-C18-C36
26	B	1048	BCR	C17-C18-C19-C20
26	B	1048	BCR	C36-C18-C19-C20
26	B	1048	BCR	C18-C19-C20-C21
26	B	1048	BCR	C20-C21-C22-C23
26	B	1048	BCR	C20-C21-C22-C37
26	B	1048	BCR	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
26	B	1048	BCR	C23-C24-C25-C30
26	C	1054	BCR	C6-C7-C8-C9
26	C	1054	BCR	C7-C8-C9-C10
26	C	1054	BCR	C7-C8-C9-C34
26	C	1054	BCR	C10-C11-C12-C13
26	C	1054	BCR	C18-C19-C20-C21
26	C	1054	BCR	C23-C24-C25-C26
26	C	1054	BCR	C23-C24-C25-C30
26	D	1050	BCR	C10-C11-C12-C13
26	D	1050	BCR	C11-C12-C13-C14
26	D	1050	BCR	C18-C19-C20-C21
26	D	1050	BCR	C20-C21-C22-C23
26	D	1050	BCR	C20-C21-C22-C37
26	H	1049	BCR	C1-C6-C7-C8
26	H	1049	BCR	C5-C6-C7-C8
26	H	1049	BCR	C6-C7-C8-C9
26	H	1049	BCR	C14-C15-C16-C17
26	H	1049	BCR	C20-C21-C22-C23
26	H	1049	BCR	C20-C21-C22-C37
26	K	1051	BCR	C7-C8-C9-C10
26	K	1051	BCR	C10-C11-C12-C13
26	K	1051	BCR	C14-C15-C16-C17
26	K	1051	BCR	C20-C21-C22-C23
26	K	1051	BCR	C20-C21-C22-C37
26	K	1052	BCR	C6-C7-C8-C9
26	K	1052	BCR	C7-C8-C9-C10
26	K	1052	BCR	C7-C8-C9-C34
26	K	1052	BCR	C10-C11-C12-C13
26	K	1052	BCR	C18-C19-C20-C21
26	K	1052	BCR	C19-C20-C21-C22
26	K	1052	BCR	C20-C21-C22-C23
26	K	1052	BCR	C20-C21-C22-C37
26	K	1052	BCR	C23-C24-C25-C26
26	K	1052	BCR	C23-C24-C25-C30
26	T	6046	BCR	C1-C6-C7-C8
26	T	6046	BCR	C5-C6-C7-C8
26	T	6046	BCR	C6-C7-C8-C9
26	T	6046	BCR	C7-C8-C9-C10
26	T	6046	BCR	C7-C8-C9-C34
26	Z	1053	BCR	C14-C15-C16-C17
26	Z	1053	BCR	C18-C19-C20-C21
26	Z	1053	BCR	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
26	Z	1053	BCR	C23-C24-C25-C30
26	a	6044	BCR	C7-C8-C9-C10
26	a	6044	BCR	C7-C8-C9-C34
26	a	6044	BCR	C10-C11-C12-C13
26	a	6044	BCR	C14-C15-C16-C17
26	a	6044	BCR	C15-C16-C17-C18
26	a	6044	BCR	C18-C19-C20-C21
26	a	6044	BCR	C19-C20-C21-C22
26	b	6045	BCR	C6-C7-C8-C9
26	b	6045	BCR	C14-C15-C16-C17
26	b	6045	BCR	C18-C19-C20-C21
26	b	6045	BCR	C20-C21-C22-C23
26	b	6045	BCR	C20-C21-C22-C37
26	b	6047	BCR	C6-C7-C8-C9
26	b	6047	BCR	C10-C11-C12-C13
26	b	6047	BCR	C14-C15-C16-C17
26	b	6047	BCR	C17-C18-C19-C20
26	b	6047	BCR	C18-C19-C20-C21
26	b	6047	BCR	C23-C24-C25-C26
26	b	6047	BCR	C23-C24-C25-C30
26	b	6048	BCR	C6-C7-C8-C9
26	b	6048	BCR	C7-C8-C9-C34
26	b	6048	BCR	C10-C11-C12-C13
26	b	6048	BCR	C11-C12-C13-C14
26	b	6048	BCR	C11-C12-C13-C35
26	b	6048	BCR	C14-C15-C16-C17
26	b	6048	BCR	C15-C16-C17-C18
26	b	6048	BCR	C16-C17-C18-C19
26	b	6048	BCR	C16-C17-C18-C36
26	b	6048	BCR	C17-C18-C19-C20
26	b	6048	BCR	C36-C18-C19-C20
26	b	6048	BCR	C18-C19-C20-C21
26	b	6048	BCR	C20-C21-C22-C23
26	b	6048	BCR	C20-C21-C22-C37
26	b	6048	BCR	C23-C24-C25-C26
26	b	6048	BCR	C23-C24-C25-C30
26	c	6054	BCR	C6-C7-C8-C9
26	c	6054	BCR	C7-C8-C9-C10
26	c	6054	BCR	C7-C8-C9-C34
26	c	6054	BCR	C10-C11-C12-C13
26	c	6054	BCR	C18-C19-C20-C21
26	c	6054	BCR	C23-C24-C25-C26

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Mol	Chain	Res	Type	Atoms
26	c	6054	BCR	C23-C24-C25-C30
26	d	6050	BCR	C10-C11-C12-C13
26	d	6050	BCR	C11-C12-C13-C14
26	d	6050	BCR	C18-C19-C20-C21
26	d	6050	BCR	C20-C21-C22-C23
26	d	6050	BCR	C20-C21-C22-C37
26	h	6049	BCR	C1-C6-C7-C8
26	h	6049	BCR	C5-C6-C7-C8
26	h	6049	BCR	C6-C7-C8-C9
26	h	6049	BCR	C14-C15-C16-C17
26	h	6049	BCR	C20-C21-C22-C23
26	h	6049	BCR	C20-C21-C22-C37
26	k	6051	BCR	C7-C8-C9-C10
26	k	6051	BCR	C10-C11-C12-C13
26	k	6051	BCR	C14-C15-C16-C17
26	k	6051	BCR	C20-C21-C22-C23
26	k	6051	BCR	C20-C21-C22-C37
26	k	6052	BCR	C6-C7-C8-C9
26	k	6052	BCR	C7-C8-C9-C10
26	k	6052	BCR	C7-C8-C9-C34
26	k	6052	BCR	C10-C11-C12-C13
26	k	6052	BCR	C11-C12-C13-C14
26	k	6052	BCR	C14-C15-C16-C17
26	k	6052	BCR	C18-C19-C20-C21
26	k	6052	BCR	C19-C20-C21-C22
26	k	6052	BCR	C20-C21-C22-C23
26	k	6052	BCR	C20-C21-C22-C37
26	k	6052	BCR	C23-C24-C25-C26
26	k	6052	BCR	C23-C24-C25-C30
26	t	1046	BCR	C5-C6-C7-C8
26	t	1046	BCR	C6-C7-C8-C9
26	t	1046	BCR	C14-C15-C16-C17
26	t	1046	BCR	C18-C19-C20-C21
26	t	1046	BCR	C19-C20-C21-C22
26	t	1046	BCR	C20-C21-C22-C23
26	t	1046	BCR	C20-C21-C22-C37
26	t	1046	BCR	C23-C24-C25-C26
26	t	1046	BCR	C23-C24-C25-C30
26	z	6053	BCR	C14-C15-C16-C17
26	z	6053	BCR	C18-C19-C20-C21
26	z	6053	BCR	C23-C24-C25-C26
26	z	6053	BCR	C23-C24-C25-C30

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Mol	Chain	Res	Type	Atoms
27	A	1063	LHG	C3-O3-P-O4
27	A	1063	LHG	C3-O3-P-O6
27	A	1063	LHG	C5-C4-O6-P
27	a	6063	LHG	C3-O3-P-O4
27	a	6063	LHG	C3-O3-P-O6
27	a	6063	LHG	C5-C4-O6-P
29	B	1060	MGE	O6D-C1D-O3G-C3G
29	D	1062	MGE	C2B-C1B-O2G-C2G
29	b	6060	MGE	O6D-C1D-O3G-C3G
29	d	6062	MGE	C2B-C1B-O2G-C2G
30	C	1055	DGD	C2D-C1D-O3G-C3G
30	C	1056	DGD	C2B-C1B-O2G-C2G
30	C	1056	DGD	C1G-C2G-O2G-C1B
30	C	1057	DGD	O1G-C1G-C2G-O2G
30	H	1058	DGD	C2B-C1B-O2G-C2G
30	H	1058	DGD	O1B-C1B-O2G-C2G
30	H	1058	DGD	C2D-C1D-O3G-C3G
30	H	1058	DGD	O6D-C1D-O3G-C3G
30	H	1058	DGD	O6E-C1E-O5D-C6D
30	c	6055	DGD	C2D-C1D-O3G-C3G
30	c	6056	DGD	C2B-C1B-O2G-C2G
30	c	6056	DGD	C1G-C2G-O2G-C1B
30	c	6057	DGD	O1G-C1G-C2G-O2G
30	h	6058	DGD	C2B-C1B-O2G-C2G
30	h	6058	DGD	O1B-C1B-O2G-C2G
30	h	6058	DGD	C2D-C1D-O3G-C3G
30	h	6058	DGD	O6D-C1D-O3G-C3G
30	h	6058	DGD	O6E-C1E-O5D-C6D
31	V	1041	HEM	C3A-C2A-CAA-CBA
31	v	6041	HEM	C3A-C2A-CAA-CBA
23	B	1024	CLA	C4C-C3C-CAC-CBC
23	b	6024	CLA	C4C-C3C-CAC-CBC
23	A	1006	CLA	C2C-C3C-CAC-CBC
23	a	6006	CLA	C2C-C3C-CAC-CBC
23	A	1003	CLA	O1D-CGD-O2D-CED
23	A	1006	CLA	O1D-CGD-O2D-CED
23	B	1020	CLA	O1D-CGD-O2D-CED
23	C	1025	CLA	O1D-CGD-O2D-CED
23	C	1027	CLA	O1D-CGD-O2D-CED
23	C	1032	CLA	O1D-CGD-O2D-CED
23	C	1033	CLA	O1D-CGD-O2D-CED
23	C	1035	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
23	D	1005	CLA	O1D-CGD-O2D-CED
23	a	6003	CLA	O1D-CGD-O2D-CED
23	a	6006	CLA	O1D-CGD-O2D-CED
23	b	6020	CLA	O1D-CGD-O2D-CED
23	c	6025	CLA	O1D-CGD-O2D-CED
23	c	6027	CLA	O1D-CGD-O2D-CED
23	c	6032	CLA	O1D-CGD-O2D-CED
23	c	6033	CLA	O1D-CGD-O2D-CED
23	c	6034	CLA	O1D-CGD-O2D-CED
23	c	6035	CLA	O1D-CGD-O2D-CED
23	d	6005	CLA	O1D-CGD-O2D-CED
23	A	1007	CLA	O1D-CGD-O2D-CED
23	B	1022	CLA	O1D-CGD-O2D-CED
23	B	1024	CLA	O1D-CGD-O2D-CED
23	C	1030	CLA	O1D-CGD-O2D-CED
23	C	1036	CLA	O1D-CGD-O2D-CED
23	D	1008	CLA	O1D-CGD-O2D-CED
23	a	6007	CLA	O1D-CGD-O2D-CED
23	b	6022	CLA	O1D-CGD-O2D-CED
23	b	6024	CLA	O1D-CGD-O2D-CED
23	c	6030	CLA	O1D-CGD-O2D-CED
23	c	6036	CLA	O1D-CGD-O2D-CED
23	d	6008	CLA	O1D-CGD-O2D-CED
23	A	1003	CLA	CBD-CGD-O2D-CED
23	C	1028	CLA	CBD-CGD-O2D-CED
23	C	1030	CLA	CBD-CGD-O2D-CED
23	C	1036	CLA	CBD-CGD-O2D-CED
23	D	1004	CLA	CBD-CGD-O2D-CED
23	a	6003	CLA	CBD-CGD-O2D-CED
23	c	6028	CLA	CBD-CGD-O2D-CED
23	c	6030	CLA	CBD-CGD-O2D-CED
23	c	6036	CLA	CBD-CGD-O2D-CED
23	d	6004	CLA	CBD-CGD-O2D-CED
23	C	1025	CLA	O1A-CGA-O2A-C1
23	H	1017	CLA	O1A-CGA-O2A-C1
23	b	6017	CLA	O1A-CGA-O2A-C1
23	c	6025	CLA	O1A-CGA-O2A-C1
23	B	1011	CLA	C4C-C3C-CAC-CBC
23	B	1021	CLA	C4C-C3C-CAC-CBC
23	b	6011	CLA	C4C-C3C-CAC-CBC
23	b	6021	CLA	C4C-C3C-CAC-CBC
23	A	1003	CLA	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
23	B	1014	CLA	C2C-C3C-CAC-CBC
23	B	1024	CLA	C2C-C3C-CAC-CBC
23	a	6003	CLA	C2C-C3C-CAC-CBC
23	b	6014	CLA	C2C-C3C-CAC-CBC
23	b	6024	CLA	C2C-C3C-CAC-CBC
23	B	1012	CLA	O1D-CGD-O2D-CED
23	b	6012	CLA	O1D-CGD-O2D-CED
23	B	1022	CLA	C8-C10-C11-C12
23	B	1022	CLA	C13-C15-C16-C17
23	D	1008	CLA	C13-C15-C16-C17
23	b	6022	CLA	C8-C10-C11-C12
23	b	6022	CLA	C13-C15-C16-C17
23	d	6008	CLA	C13-C15-C16-C17
23	B	1009	CLA	C4C-C3C-CAC-CBC
23	b	6009	CLA	C4C-C3C-CAC-CBC
23	c	6027	CLA	C4C-C3C-CAC-CBC
23	B	1021	CLA	C2C-C3C-CAC-CBC
23	b	6021	CLA	C2C-C3C-CAC-CBC
23	c	6027	CLA	C2C-C3C-CAC-CBC
23	B	1009	CLA	O1D-CGD-O2D-CED
23	B	1011	CLA	O1D-CGD-O2D-CED
23	B	1021	CLA	O1D-CGD-O2D-CED
23	B	1023	CLA	O1D-CGD-O2D-CED
23	b	6009	CLA	O1D-CGD-O2D-CED
23	b	6011	CLA	O1D-CGD-O2D-CED
23	b	6021	CLA	O1D-CGD-O2D-CED
23	b	6023	CLA	O1D-CGD-O2D-CED
23	C	1025	CLA	CBA-CGA-O2A-C1
23	c	6025	CLA	CBA-CGA-O2A-C1
23	A	1003	CLA	C15-C16-C17-C18
23	B	1020	CLA	C10-C11-C12-C13
23	a	6003	CLA	C15-C16-C17-C18
23	b	6020	CLA	C10-C11-C12-C13
24	A	1038	PHO	C10-C11-C12-C13
24	d	6038	PHO	C10-C11-C12-C13
23	B	1011	CLA	C2C-C3C-CAC-CBC
23	b	6011	CLA	C2C-C3C-CAC-CBC
23	C	1028	CLA	O1D-CGD-O2D-CED
23	c	6028	CLA	O1D-CGD-O2D-CED
23	B	1014	CLA	C4C-C3C-CAC-CBC
23	b	6014	CLA	C4C-C3C-CAC-CBC
30	H	1058	DGD	O6D-C5D-C6D-O5D

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Mol	Chain	Res	Type	Atoms
30	h	6058	DGD	O6D-C5D-C6D-O5D
27	A	1063	LHG	O10-C23-O8-C6
27	a	6063	LHG	O10-C23-O8-C6
23	B	1009	CLA	C2C-C3C-CAC-CBC
23	b	6009	CLA	C2C-C3C-CAC-CBC
29	D	1062	MGE	O1B-C1B-O2G-C2G
29	d	6062	MGE	O1B-C1B-O2G-C2G
30	C	1056	DGD	O1B-C1B-O2G-C2G
30	c	6056	DGD	O1B-C1B-O2G-C2G
23	A	1003	CLA	C3-C5-C6-C7
23	a	6003	CLA	C3-C5-C6-C7
23	A	1003	CLA	C4C-C3C-CAC-CBC
23	a	6003	CLA	C4C-C3C-CAC-CBC
23	D	1004	CLA	O1D-CGD-O2D-CED
23	d	6004	CLA	O1D-CGD-O2D-CED
23	C	1028	CLA	C2C-C3C-CAC-CBC
23	c	6028	CLA	C2C-C3C-CAC-CBC
23	B	1012	CLA	C4-C3-C5-C6
23	B	1019	CLA	C4-C3-C5-C6
23	B	1021	CLA	C4-C3-C5-C6
23	C	1033	CLA	C4-C3-C5-C6
23	C	1036	CLA	C4-C3-C5-C6
23	b	6012	CLA	C4-C3-C5-C6
23	b	6019	CLA	C4-C3-C5-C6
23	b	6021	CLA	C4-C3-C5-C6
23	c	6033	CLA	C4-C3-C5-C6
23	c	6036	CLA	C4-C3-C5-C6
24	A	1038	PHO	C4-C3-C5-C6
24	d	6038	PHO	C4-C3-C5-C6
25	D	1042	PQ9	C19-C18-C20-C21
23	B	1021	CLA	C2-C3-C5-C6
23	C	1033	CLA	C2-C3-C5-C6
23	D	1008	CLA	C2-C3-C5-C6
23	b	6012	CLA	C2-C3-C5-C6
23	b	6021	CLA	C2-C3-C5-C6
23	c	6033	CLA	C2-C3-C5-C6
23	d	6008	CLA	C2-C3-C5-C6
24	A	1038	PHO	C2-C3-C5-C6
24	d	6038	PHO	C2-C3-C5-C6
25	D	1042	PQ9	C17-C18-C20-C21
25	D	1042	PQ9	C37-C38-C40-C41
23	B	1015	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
23	b	6015	CLA	CBD-CGD-O2D-CED
23	B	1021	CLA	C2A-CAA-CBA-CGA
23	C	1032	CLA	C2A-CAA-CBA-CGA
23	C	1036	CLA	C2A-CAA-CBA-CGA
23	b	6021	CLA	C2A-CAA-CBA-CGA
23	c	6032	CLA	C2A-CAA-CBA-CGA
23	c	6036	CLA	C2A-CAA-CBA-CGA
23	c	6034	CLA	O1A-CGA-O2A-C1
23	B	1013	CLA	CBA-CGA-O2A-C1
23	C	1028	CLA	CBA-CGA-O2A-C1
23	C	1029	CLA	CBA-CGA-O2A-C1
23	C	1036	CLA	CBA-CGA-O2A-C1
23	D	1005	CLA	CBA-CGA-O2A-C1
23	b	6013	CLA	CBA-CGA-O2A-C1
23	c	6028	CLA	CBA-CGA-O2A-C1
23	c	6029	CLA	CBA-CGA-O2A-C1
23	c	6036	CLA	CBA-CGA-O2A-C1
23	d	6005	CLA	CBA-CGA-O2A-C1
27	A	1063	LHG	C24-C23-O8-C6
27	a	6063	LHG	C24-C23-O8-C6
29	B	1060	MGE	C2A-C1A-O1G-C1G
29	b	6060	MGE	C2A-C1A-O1G-C1G
30	H	1058	DGD	C4D-C5D-C6D-O5D
30	h	6058	DGD	C4D-C5D-C6D-O5D
26	C	1054	BCR	C19-C20-C21-C22
26	D	1050	BCR	C19-C20-C21-C22
26	K	1051	BCR	C19-C20-C21-C22
26	Z	1053	BCR	C19-C20-C21-C22
26	c	6054	BCR	C19-C20-C21-C22
26	d	6050	BCR	C19-C20-C21-C22
26	k	6051	BCR	C19-C20-C21-C22
26	k	6052	BCR	C9-C10-C11-C12
26	z	6053	BCR	C19-C20-C21-C22
23	B	1011	CLA	O1A-CGA-O2A-C1
23	B	1023	CLA	O1A-CGA-O2A-C1
23	C	1036	CLA	O1A-CGA-O2A-C1
23	b	6011	CLA	O1A-CGA-O2A-C1
23	b	6023	CLA	O1A-CGA-O2A-C1
23	c	6036	CLA	O1A-CGA-O2A-C1
29	L	1061	MGE	O1A-C1A-O1G-C1G
29	d	6061	MGE	O1A-C1A-O1G-C1G
30	C	1055	DGD	C8A-C9A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
30	c	6055	DGD	C8A-C9A-CAA-CBA
23	B	1016	CLA	C3-C5-C6-C7
23	b	6016	CLA	C3-C5-C6-C7
24	A	1039	PHO	C3-C5-C6-C7
24	a	6039	PHO	C3-C5-C6-C7
23	B	1011	CLA	CBA-CGA-O2A-C1
23	C	1032	CLA	CBA-CGA-O2A-C1
23	b	6011	CLA	CBA-CGA-O2A-C1
23	c	6032	CLA	CBA-CGA-O2A-C1
30	H	1058	DGD	C4E-C5E-C6E-O5E
30	h	6058	DGD	C4E-C5E-C6E-O5E
23	B	1013	CLA	CBD-CGD-O2D-CED
27	A	1063	LHG	C8-C7-O7-C5
27	a	6063	LHG	C8-C7-O7-C5
29	B	1060	MGE	O1A-C1A-O1G-C1G
26	K	1052	BCR	C14-C15-C16-C17
23	B	1019	CLA	C3-C5-C6-C7
23	b	6019	CLA	C3-C5-C6-C7
23	C	1026	CLA	CBD-CGD-O2D-CED
23	b	6013	CLA	CBD-CGD-O2D-CED
23	c	6026	CLA	CBD-CGD-O2D-CED
23	B	1014	CLA	CBA-CGA-O2A-C1
23	B	1023	CLA	CBA-CGA-O2A-C1
23	b	6014	CLA	CBA-CGA-O2A-C1
23	b	6023	CLA	CBA-CGA-O2A-C1
29	L	1061	MGE	C2A-C1A-O1G-C1G
29	d	6061	MGE	C2A-C1A-O1G-C1G
23	B	1014	CLA	C4-C3-C5-C6
23	C	1025	CLA	C4-C3-C5-C6
23	C	1034	CLA	C4-C3-C5-C6
23	b	6014	CLA	C4-C3-C5-C6
23	c	6025	CLA	C4-C3-C5-C6
23	c	6034	CLA	C4-C3-C5-C6
25	A	1043	PQ9	C24-C23-C25-C26
25	a	6043	PQ9	C14-C13-C15-C16
25	a	6043	PQ9	C24-C23-C25-C26
23	B	1014	CLA	C2-C3-C5-C6
23	B	1019	CLA	C2-C3-C5-C6
23	C	1025	CLA	C2-C3-C5-C6
23	C	1034	CLA	C2-C3-C5-C6
23	C	1036	CLA	C2-C3-C5-C6
23	b	6014	CLA	C2-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
23	b	6019	CLA	C2-C3-C5-C6
23	c	6025	CLA	C2-C3-C5-C6
23	c	6034	CLA	C2-C3-C5-C6
23	c	6036	CLA	C2-C3-C5-C6
25	A	1043	PQ9	C12-C13-C15-C16
25	A	1043	PQ9	C22-C23-C25-C26
25	a	6043	PQ9	C12-C13-C15-C16
23	B	1012	CLA	O1A-CGA-O2A-C1
23	C	1034	CLA	O1A-CGA-O2A-C1
23	D	1005	CLA	O1A-CGA-O2A-C1
23	d	6005	CLA	O1A-CGA-O2A-C1
29	b	6060	MGE	O1A-C1A-O1G-C1G
27	A	1063	LHG	O9-C7-O7-C5
27	a	6063	LHG	O9-C7-O7-C5
23	C	1032	CLA	C2C-C3C-CAC-CBC
23	c	6032	CLA	C2C-C3C-CAC-CBC
31	V	1041	HEM	C1A-C2A-CAA-CBA
31	v	6041	HEM	C1A-C2A-CAA-CBA
30	H	1058	DGD	O6E-C5E-C6E-O5E
30	h	6058	DGD	O6E-C5E-C6E-O5E
23	B	1019	CLA	O1D-CGD-O2D-CED
23	b	6019	CLA	O1D-CGD-O2D-CED
23	D	1008	CLA	C3-C5-C6-C7
23	d	6008	CLA	C3-C5-C6-C7
23	c	6034	CLA	CBA-CGA-O2A-C1
30	C	1056	DGD	C1A-C2A-C3A-C4A
30	c	6056	DGD	C1A-C2A-C3A-C4A
23	B	1013	CLA	O1A-CGA-O2A-C1
23	b	6013	CLA	O1A-CGA-O2A-C1
23	B	1014	CLA	O1D-CGD-O2D-CED
23	b	6014	CLA	O1D-CGD-O2D-CED
27	A	1063	LHG	C30-C31-C32-C33
27	a	6063	LHG	C30-C31-C32-C33
23	C	1034	CLA	CBD-CGD-O2D-CED
26	B	1047	BCR	C19-C20-C21-C22
26	C	1054	BCR	C15-C16-C17-C18
26	K	1051	BCR	C15-C16-C17-C18
26	b	6047	BCR	C19-C20-C21-C22
26	c	6054	BCR	C15-C16-C17-C18
23	C	1028	CLA	O1A-CGA-O2A-C1
23	c	6028	CLA	O1A-CGA-O2A-C1
23	C	1037	CLA	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
23	c	6037	CLA	C2C-C3C-CAC-CBC
23	B	1012	CLA	CBA-CGA-O2A-C1
23	B	1022	CLA	CBA-CGA-O2A-C1
23	C	1034	CLA	CBA-CGA-O2A-C1
23	b	6012	CLA	CBA-CGA-O2A-C1
23	b	6022	CLA	CBA-CGA-O2A-C1
30	C	1056	DGD	C2A-C1A-O1G-C1G
30	c	6056	DGD	C2A-C1A-O1G-C1G
23	C	1028	CLA	C4C-C3C-CAC-CBC
23	c	6028	CLA	C4C-C3C-CAC-CBC
30	C	1056	DGD	C7A-C8A-C9A-CAA
30	c	6056	DGD	C7A-C8A-C9A-CAA
30	C	1055	DGD	C4D-C5D-C6D-O5D
30	c	6055	DGD	C4D-C5D-C6D-O5D
23	B	1014	CLA	C5-C6-C7-C8
23	C	1033	CLA	C15-C16-C17-C18
23	b	6014	CLA	C5-C6-C7-C8
23	c	6033	CLA	C15-C16-C17-C18
23	C	1027	CLA	C4-C3-C5-C6
23	c	6027	CLA	C4-C3-C5-C6
25	A	1043	PQ9	C14-C13-C15-C16
25	A	1043	PQ9	C39-C38-C40-C41
25	a	6043	PQ9	C39-C38-C40-C41
25	d	6042	PQ9	C39-C38-C40-C41
23	B	1012	CLA	C2-C3-C5-C6
23	C	1027	CLA	C2-C3-C5-C6
23	c	6027	CLA	C2-C3-C5-C6
25	A	1043	PQ9	C37-C38-C40-C41
25	a	6043	PQ9	C22-C23-C25-C26
25	a	6043	PQ9	C37-C38-C40-C41
25	d	6042	PQ9	C37-C38-C40-C41
23	b	6012	CLA	C3-C5-C6-C7
23	B	1010	CLA	C11-C10-C8-C9
23	B	1011	CLA	C11-C10-C8-C9
23	B	1012	CLA	C11-C10-C8-C9
23	B	1012	CLA	C14-C13-C15-C16
23	B	1014	CLA	C11-C10-C8-C9
23	B	1015	CLA	C11-C10-C8-C9
23	B	1015	CLA	C11-C12-C13-C14
23	B	1015	CLA	C14-C13-C15-C16
23	B	1016	CLA	C6-C7-C8-C9
23	B	1019	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
23	B	1020	CLA	C11-C10-C8-C9
23	B	1020	CLA	C14-C13-C15-C16
23	B	1021	CLA	C11-C10-C8-C9
23	C	1025	CLA	C6-C7-C8-C9
23	C	1025	CLA	C14-C13-C15-C16
23	C	1026	CLA	C6-C7-C8-C9
23	C	1031	CLA	C11-C10-C8-C9
23	C	1031	CLA	C14-C13-C15-C16
23	C	1032	CLA	C11-C10-C8-C9
23	C	1033	CLA	C11-C10-C8-C9
23	C	1034	CLA	C11-C10-C8-C9
23	C	1034	CLA	C14-C13-C15-C16
23	C	1036	CLA	C11-C10-C8-C9
23	C	1036	CLA	C11-C12-C13-C14
23	D	1004	CLA	C6-C7-C8-C9
23	D	1008	CLA	C11-C12-C13-C14
23	H	1017	CLA	C14-C13-C15-C16
23	b	6010	CLA	C11-C10-C8-C9
23	b	6011	CLA	C11-C10-C8-C9
23	b	6012	CLA	C14-C13-C15-C16
23	b	6014	CLA	C11-C10-C8-C9
23	b	6015	CLA	C11-C10-C8-C9
23	b	6015	CLA	C11-C12-C13-C14
23	b	6015	CLA	C14-C13-C15-C16
23	b	6016	CLA	C6-C7-C8-C9
23	b	6017	CLA	C14-C13-C15-C16
23	b	6019	CLA	C11-C12-C13-C14
23	b	6020	CLA	C11-C10-C8-C9
23	b	6020	CLA	C14-C13-C15-C16
23	b	6021	CLA	C11-C10-C8-C9
23	c	6025	CLA	C6-C7-C8-C9
23	c	6025	CLA	C14-C13-C15-C16
23	c	6026	CLA	C6-C7-C8-C9
23	c	6031	CLA	C11-C10-C8-C9
23	c	6031	CLA	C14-C13-C15-C16
23	c	6032	CLA	C11-C10-C8-C9
23	c	6033	CLA	C11-C10-C8-C9
23	c	6034	CLA	C11-C10-C8-C9
23	c	6034	CLA	C14-C13-C15-C16
23	c	6036	CLA	C11-C10-C8-C9
23	c	6036	CLA	C11-C12-C13-C14
23	d	6004	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
23	d	6008	CLA	C11-C12-C13-C14
24	A	1039	PHO	C14-C13-C15-C16
24	a	6039	PHO	C14-C13-C15-C16
30	C	1055	DGD	C6B-C7B-C8B-C9B
30	c	6055	DGD	C6B-C7B-C8B-C9B
23	C	1036	CLA	C2C-C3C-CAC-CBC
23	D	1005	CLA	C2C-C3C-CAC-CBC
23	c	6036	CLA	C2C-C3C-CAC-CBC
23	d	6005	CLA	C2C-C3C-CAC-CBC
30	C	1055	DGD	O6D-C5D-C6D-O5D
30	c	6055	DGD	O6D-C5D-C6D-O5D
23	B	1019	CLA	O1A-CGA-O2A-C1
23	b	6019	CLA	O1A-CGA-O2A-C1
26	B	1047	BCR	C7-C8-C9-C34
26	B	1047	BCR	C36-C18-C19-C20
26	D	1050	BCR	C11-C12-C13-C35
26	H	1049	BCR	C11-C12-C13-C35
26	H	1049	BCR	C37-C22-C23-C24
26	K	1051	BCR	C7-C8-C9-C34
26	K	1051	BCR	C11-C12-C13-C35
26	K	1052	BCR	C11-C12-C13-C35
26	K	1052	BCR	C37-C22-C23-C24
26	T	6046	BCR	C36-C18-C19-C20
26	b	6047	BCR	C7-C8-C9-C34
26	b	6047	BCR	C36-C18-C19-C20
26	d	6050	BCR	C11-C12-C13-C35
26	h	6049	BCR	C11-C12-C13-C35
26	h	6049	BCR	C37-C22-C23-C24
26	k	6051	BCR	C7-C8-C9-C34
26	k	6051	BCR	C11-C12-C13-C35
26	k	6052	BCR	C11-C12-C13-C35
26	k	6052	BCR	C37-C22-C23-C24
26	B	1047	BCR	C7-C8-C9-C10
26	B	1048	BCR	C7-C8-C9-C10
26	H	1049	BCR	C11-C12-C13-C14
26	H	1049	BCR	C21-C22-C23-C24
26	K	1051	BCR	C11-C12-C13-C14
26	K	1052	BCR	C11-C12-C13-C14
26	K	1052	BCR	C21-C22-C23-C24
26	T	6046	BCR	C17-C18-C19-C20
26	b	6047	BCR	C7-C8-C9-C10
26	b	6048	BCR	C7-C8-C9-C10

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Mol	Chain	Res	Type	Atoms
26	h	6049	BCR	C11-C12-C13-C14
26	h	6049	BCR	C21-C22-C23-C24
26	k	6051	BCR	C11-C12-C13-C14
26	k	6052	BCR	C21-C22-C23-C24
26	t	1046	BCR	C7-C8-C9-C10
23	B	1018	CLA	C2A-CAA-CBA-CGA
23	b	6018	CLA	C2A-CAA-CBA-CGA
23	C	1032	CLA	O1A-CGA-O2A-C1
23	b	6012	CLA	O1A-CGA-O2A-C1
23	c	6032	CLA	O1A-CGA-O2A-C1
30	C	1057	DGD	CDA-CEA-CFA-CGA
30	c	6057	DGD	CDA-CEA-CFA-CGA
23	A	1006	CLA	C10-C11-C12-C13
23	B	1010	CLA	C8-C10-C11-C12
23	b	6010	CLA	C8-C10-C11-C12
23	B	1023	CLA	C2-C1-O2A-CGA
23	b	6023	CLA	C2-C1-O2A-CGA
30	C	1055	DGD	C4A-C5A-C6A-C7A
30	C	1055	DGD	C2B-C3B-C4B-C5B
30	c	6055	DGD	C4A-C5A-C6A-C7A
30	c	6055	DGD	C2B-C3B-C4B-C5B
23	B	1009	CLA	C8-C10-C11-C12
23	B	1016	CLA	C13-C15-C16-C17
23	B	1023	CLA	C10-C11-C12-C13
23	b	6016	CLA	C13-C15-C16-C17
23	b	6023	CLA	C10-C11-C12-C13
23	c	6034	CLA	C5-C6-C7-C8
30	C	1056	DGD	O6E-C5E-C6E-O5E
30	c	6056	DGD	O6E-C5E-C6E-O5E
29	L	1061	MGE	C4B-C5B-C6B-C7B
23	b	6009	CLA	C8-C10-C11-C12
29	d	6061	MGE	C4B-C5B-C6B-C7B
23	A	1006	CLA	C12-C13-C15-C16
23	B	1009	CLA	C12-C13-C15-C16
23	B	1014	CLA	C12-C13-C15-C16
23	B	1018	CLA	C6-C7-C8-C10
23	B	1023	CLA	C12-C13-C15-C16
23	C	1028	CLA	C12-C13-C15-C16
23	D	1005	CLA	C6-C7-C8-C10
23	a	6006	CLA	C12-C13-C15-C16
23	b	6009	CLA	C12-C13-C15-C16
23	b	6014	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
23	b	6018	CLA	C6-C7-C8-C10
23	b	6023	CLA	C12-C13-C15-C16
23	c	6028	CLA	C12-C13-C15-C16
23	d	6005	CLA	C6-C7-C8-C10
27	A	1063	LHG	C34-C35-C36-C37
27	a	6063	LHG	C34-C35-C36-C37
23	C	1028	CLA	C4-C3-C5-C6
23	c	6028	CLA	C4-C3-C5-C6
26	B	1045	BCR	C15-C16-C17-C18
26	B	1045	BCR	C19-C20-C21-C22
26	H	1049	BCR	C15-C16-C17-C18
26	Z	1053	BCR	C15-C16-C17-C18
26	b	6045	BCR	C15-C16-C17-C18
26	h	6049	BCR	C15-C16-C17-C18
26	k	6051	BCR	C15-C16-C17-C18
26	z	6053	BCR	C15-C16-C17-C18
23	C	1033	CLA	C5-C6-C7-C8
23	b	6020	CLA	C15-C16-C17-C18
23	c	6027	CLA	C8-C10-C11-C12
23	c	6033	CLA	C5-C6-C7-C8
27	A	1063	LHG	C17-C18-C19-C20
27	a	6063	LHG	C17-C18-C19-C20
29	B	1060	MGE	C1B-C2B-C3B-C4B
29	D	1062	MGE	C1B-C2B-C3B-C4B
29	d	6062	MGE	C1B-C2B-C3B-C4B
23	B	1014	CLA	O1A-CGA-O2A-C1
23	b	6014	CLA	O1A-CGA-O2A-C1
29	L	1061	MGE	C2B-C1B-O2G-C2G
29	d	6061	MGE	C2B-C1B-O2G-C2G
23	B	1009	CLA	C15-C16-C17-C18
23	B	1016	CLA	C10-C11-C12-C13
23	B	1020	CLA	C15-C16-C17-C18
23	C	1027	CLA	C8-C10-C11-C12
23	C	1028	CLA	C8-C10-C11-C12
23	C	1028	CLA	C10-C11-C12-C13
23	C	1031	CLA	C8-C10-C11-C12
23	D	1008	CLA	C10-C11-C12-C13
23	b	6009	CLA	C15-C16-C17-C18
23	b	6016	CLA	C10-C11-C12-C13
23	c	6028	CLA	C8-C10-C11-C12
23	c	6028	CLA	C10-C11-C12-C13
23	c	6031	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
24	A	1039	PHO	C15-C16-C17-C18
24	a	6039	PHO	C15-C16-C17-C18
23	C	1026	CLA	C2A-CAA-CBA-CGA
23	C	1030	CLA	C2A-CAA-CBA-CGA
23	b	6013	CLA	C2A-CAA-CBA-CGA
23	c	6026	CLA	C2A-CAA-CBA-CGA
23	c	6030	CLA	C2A-CAA-CBA-CGA
26	B	1045	BCR	C10-C11-C12-C13
26	b	6045	BCR	C10-C11-C12-C13
23	B	1020	CLA	C8-C10-C11-C12
23	B	1021	CLA	C5-C6-C7-C8
23	C	1034	CLA	C5-C6-C7-C8
23	C	1037	CLA	C15-C16-C17-C18
23	c	6037	CLA	C15-C16-C17-C18
23	d	6008	CLA	C10-C11-C12-C13
29	L	1061	MGE	C1B-C2B-C3B-C4B
29	d	6061	MGE	C1B-C2B-C3B-C4B
30	C	1056	DGD	O1A-C1A-O1G-C1G
30	c	6056	DGD	O1A-C1A-O1G-C1G
23	C	1026	CLA	C3-C5-C6-C7
23	D	1005	CLA	C3-C5-C6-C7
23	c	6026	CLA	C3-C5-C6-C7
23	d	6005	CLA	C3-C5-C6-C7
26	D	1050	BCR	C6-C7-C8-C9
26	d	6050	BCR	C6-C7-C8-C9
29	B	1060	MGE	C4B-C5B-C6B-C7B
23	B	1010	CLA	C5-C6-C7-C8
23	B	1011	CLA	C13-C15-C16-C17
23	C	1035	CLA	C5-C6-C7-C8
23	D	1008	CLA	C15-C16-C17-C18
23	b	6010	CLA	C5-C6-C7-C8
23	b	6011	CLA	C13-C15-C16-C17
23	b	6020	CLA	C8-C10-C11-C12
23	b	6021	CLA	C5-C6-C7-C8
23	c	6035	CLA	C5-C6-C7-C8
23	d	6008	CLA	C15-C16-C17-C18
24	A	1038	PHO	C13-C15-C16-C17
24	d	6038	PHO	C13-C15-C16-C17
30	C	1056	DGD	C7B-C8B-C9B-CAB
30	H	1058	DGD	CEB-CFB-CGB-CHB
30	c	6056	DGD	C7B-C8B-C9B-CAB
30	h	6058	DGD	CEB-CFB-CGB-CHB

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Mol	Chain	Res	Type	Atoms
29	b	6060	MGE	C1B-C2B-C3B-C4B
29	J	1059	MGE	C4B-C5B-C6B-C7B
29	d	6059	MGE	C4B-C5B-C6B-C7B
29	J	1059	MGE	C1B-C2B-C3B-C4B
29	d	6059	MGE	C1B-C2B-C3B-C4B
23	B	1015	CLA	C10-C11-C12-C13
23	B	1016	CLA	C8-C10-C11-C12
23	C	1025	CLA	C8-C10-C11-C12
23	C	1033	CLA	C10-C11-C12-C13
23	b	6015	CLA	C10-C11-C12-C13
23	b	6016	CLA	C8-C10-C11-C12
23	c	6025	CLA	C8-C10-C11-C12
23	c	6033	CLA	C10-C11-C12-C13
23	A	1003	CLA	CBA-CGA-O2A-C1
23	A	1006	CLA	CBA-CGA-O2A-C1
23	a	6003	CLA	CBA-CGA-O2A-C1
23	C	1037	CLA	CBD-CGD-O2D-CED
23	c	6037	CLA	CBD-CGD-O2D-CED
29	J	1059	MGE	C2B-C1B-O2G-C2G
29	d	6059	MGE	C2B-C1B-O2G-C2G
23	C	1029	CLA	O1A-CGA-O2A-C1
23	c	6029	CLA	O1A-CGA-O2A-C1
23	B	1021	CLA	C3-C5-C6-C7
23	b	6021	CLA	C3-C5-C6-C7
26	b	6045	BCR	C19-C20-C21-C22
29	L	1061	MGE	O1B-C1B-O2G-C2G
29	d	6061	MGE	O1B-C1B-O2G-C2G
23	B	1013	CLA	C2A-CAA-CBA-CGA
23	B	1014	CLA	C2A-CAA-CBA-CGA
23	C	1025	CLA	C2A-CAA-CBA-CGA
23	b	6014	CLA	C2A-CAA-CBA-CGA
23	c	6025	CLA	C2A-CAA-CBA-CGA
23	B	1009	CLA	CBA-CGA-O2A-C1
23	a	6006	CLA	CBA-CGA-O2A-C1
23	b	6009	CLA	CBA-CGA-O2A-C1
26	C	1054	BCR	C14-C15-C16-C17
26	c	6054	BCR	C14-C15-C16-C17
23	B	1013	CLA	C5-C6-C7-C8
23	b	6013	CLA	C5-C6-C7-C8
30	C	1056	DGD	C6B-C7B-C8B-C9B
30	c	6056	DGD	C6B-C7B-C8B-C9B
23	C	1031	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
23	C	1032	CLA	C10-C11-C12-C13
23	c	6025	CLA	C15-C16-C17-C18
23	c	6031	CLA	C5-C6-C7-C8
23	c	6032	CLA	C10-C11-C12-C13
23	C	1025	CLA	C15-C16-C17-C18
23	C	1029	CLA	C8-C10-C11-C12
23	c	6029	CLA	C8-C10-C11-C12
25	d	6042	PQ9	C19-C18-C20-C21
23	B	1022	CLA	C11-C12-C13-C14
23	b	6022	CLA	C11-C12-C13-C14
29	J	1059	MGE	O1B-C1B-O2G-C2G
29	d	6059	MGE	O1B-C1B-O2G-C2G
29	J	1059	MGE	C2D-C1D-O3G-C3G
29	d	6059	MGE	C2D-C1D-O3G-C3G
30	H	1058	DGD	C1A-C2A-C3A-C4A
30	h	6058	DGD	C1A-C2A-C3A-C4A
26	A	1044	BCR	C20-C21-C22-C37
26	B	1047	BCR	C16-C17-C18-C36
26	C	1054	BCR	C20-C21-C22-C37
26	Z	1053	BCR	C20-C21-C22-C37
26	a	6044	BCR	C20-C21-C22-C37
26	b	6047	BCR	C16-C17-C18-C36
26	c	6054	BCR	C20-C21-C22-C37
26	z	6053	BCR	C20-C21-C22-C37
26	C	1054	BCR	C36-C18-C19-C20
26	Z	1053	BCR	C7-C8-C9-C34
26	c	6054	BCR	C36-C18-C19-C20
26	t	1046	BCR	C7-C8-C9-C34
26	z	6053	BCR	C7-C8-C9-C34
23	B	1015	CLA	C2C-C3C-CAC-CBC
23	b	6015	CLA	C2C-C3C-CAC-CBC
23	B	1022	CLA	C2A-CAA-CBA-CGA
23	b	6022	CLA	C2A-CAA-CBA-CGA
23	B	1021	CLA	C10-C11-C12-C13
23	b	6021	CLA	C10-C11-C12-C13
23	c	6027	CLA	C10-C11-C12-C13
29	b	6060	MGE	CBB-CCB-CDB-CEB
23	C	1034	CLA	O2A-C1-C2-C3
29	L	1061	MGE	C1G-C2G-O2G-C1B
29	d	6061	MGE	C1G-C2G-O2G-C1B
26	H	1049	BCR	C13-C14-C15-C16
23	A	1003	CLA	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
23	C	1037	CLA	C16-C17-C18-C20
23	a	6003	CLA	C16-C17-C18-C20
23	c	6037	CLA	C16-C17-C18-C20
23	C	1027	CLA	C10-C11-C12-C13
26	A	1044	BCR	C20-C21-C22-C23
26	B	1047	BCR	C16-C17-C18-C19
26	C	1054	BCR	C20-C21-C22-C23
26	Z	1053	BCR	C20-C21-C22-C23
26	a	6044	BCR	C20-C21-C22-C23
26	b	6047	BCR	C16-C17-C18-C19
26	c	6054	BCR	C20-C21-C22-C23
26	z	6053	BCR	C20-C21-C22-C23
29	J	1059	MGE	O6D-C1D-O3G-C3G
29	d	6059	MGE	O6D-C1D-O3G-C3G
23	A	1007	CLA	C13-C15-C16-C17
23	a	6007	CLA	C13-C15-C16-C17
24	A	1038	PHO	C5-C6-C7-C8
23	B	1020	CLA	C2-C1-O2A-CGA
23	C	1033	CLA	C2-C1-O2A-CGA
23	b	6020	CLA	C2-C1-O2A-CGA
23	c	6033	CLA	C2-C1-O2A-CGA
24	A	1038	PHO	C2-C1-O2A-CGA
24	d	6038	PHO	C2-C1-O2A-CGA
23	B	1019	CLA	C8-C10-C11-C12
23	b	6019	CLA	C8-C10-C11-C12
24	d	6038	PHO	C5-C6-C7-C8
23	C	1032	CLA	C4C-C3C-CAC-CBC
23	c	6032	CLA	C4C-C3C-CAC-CBC
29	B	1060	MGE	C9A-CAA-CBA-CCA
29	L	1061	MGE	C6A-C7A-C8A-C9A
26	T	6046	BCR	C14-C15-C16-C17
29	b	6060	MGE	C9A-CAA-CBA-CCA
29	d	6061	MGE	C6A-C7A-C8A-C9A
30	c	6057	DGD	CBB-CCB-CDB-CEB
24	a	6039	PHO	C13-C15-C16-C17
29	D	1062	MGE	CAB-CBB-CCB-CDB
29	d	6062	MGE	CAB-CBB-CCB-CDB
30	C	1057	DGD	C6A-C7A-C8A-C9A
30	C	1057	DGD	CBB-CCB-CDB-CEB
30	c	6057	DGD	C6A-C7A-C8A-C9A
23	C	1027	CLA	C2C-C3C-CAC-CBC
29	D	1062	MGE	C4B-C5B-C6B-C7B

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Mol	Chain	Res	Type	Atoms
29	D	1062	MGE	CBB-CCB-CDB-CEB
29	d	6062	MGE	C4B-C5B-C6B-C7B
29	d	6062	MGE	CBB-CCB-CDB-CEB
30	H	1058	DGD	C9B-CAB-CBB-CCB
30	h	6058	DGD	C9B-CAB-CBB-CCB
23	D	1004	CLA	C13-C15-C16-C17
24	A	1039	PHO	C13-C15-C16-C17
23	B	1014	CLA	C16-C17-C18-C20
23	B	1023	CLA	C16-C17-C18-C20
23	C	1029	CLA	C16-C17-C18-C20
23	C	1037	CLA	C16-C17-C18-C19
23	b	6014	CLA	C16-C17-C18-C20
23	b	6023	CLA	C16-C17-C18-C20
23	c	6029	CLA	C16-C17-C18-C20
23	c	6037	CLA	C16-C17-C18-C19
23	B	1018	CLA	C5-C6-C7-C8
23	b	6018	CLA	C5-C6-C7-C8
23	d	6004	CLA	C13-C15-C16-C17
23	b	6012	CLA	C12-C13-C15-C16
29	J	1059	MGE	C7A-C8A-C9A-CAA
29	d	6059	MGE	C7A-C8A-C9A-CAA
30	C	1055	DGD	CFB-CGB-CHB-CIB
30	c	6055	DGD	CFB-CGB-CHB-CIB
23	B	1009	CLA	C3A-C2A-CAA-CBA
23	B	1014	CLA	C3A-C2A-CAA-CBA
23	B	1016	CLA	C3A-C2A-CAA-CBA
23	B	1024	CLA	C3A-C2A-CAA-CBA
23	C	1027	CLA	C3A-C2A-CAA-CBA
23	C	1036	CLA	C3A-C2A-CAA-CBA
23	D	1008	CLA	C3A-C2A-CAA-CBA
23	b	6009	CLA	C3A-C2A-CAA-CBA
23	b	6014	CLA	C3A-C2A-CAA-CBA
23	b	6016	CLA	C3A-C2A-CAA-CBA
23	b	6024	CLA	C3A-C2A-CAA-CBA
23	c	6027	CLA	C3A-C2A-CAA-CBA
23	c	6036	CLA	C3A-C2A-CAA-CBA
23	d	6008	CLA	C3A-C2A-CAA-CBA
30	C	1056	DGD	CBA-CCA-CDA-CEA
30	H	1058	DGD	CCB-CDB-CEB-CFB
30	c	6056	DGD	CBA-CCA-CDA-CEA
30	h	6058	DGD	CCB-CDB-CEB-CFB
23	B	1019	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
23	b	6019	CLA	C10-C11-C12-C13
26	h	6049	BCR	C13-C14-C15-C16
26	t	1046	BCR	C13-C14-C15-C16
23	A	1003	CLA	C16-C17-C18-C19
23	B	1012	CLA	C16-C17-C18-C19
23	a	6003	CLA	C16-C17-C18-C19
23	b	6012	CLA	C16-C17-C18-C19
24	A	1038	PHO	CBA-CGA-O2A-C1
24	d	6038	PHO	CBA-CGA-O2A-C1
29	L	1061	MGE	C1G-C2G-C3G-O3G
29	d	6061	MGE	C1G-C2G-C3G-O3G
30	C	1055	DGD	CDB-CEB-CFB-CGB
30	c	6055	DGD	CDB-CEB-CFB-CGB
27	A	1063	LHG	C23-C24-C25-C26
27	a	6063	LHG	C23-C24-C25-C26
29	B	1060	MGE	C7A-C8A-C9A-CAA
29	L	1061	MGE	C7A-C8A-C9A-CAA
29	L	1061	MGE	C9B-CAB-CBB-CCB
29	d	6061	MGE	C7A-C8A-C9A-CAA
29	d	6061	MGE	C9B-CAB-CBB-CCB
30	H	1058	DGD	C6A-C7A-C8A-C9A
30	h	6058	DGD	C6A-C7A-C8A-C9A
23	B	1016	CLA	C2B-C3B-CAB-CBB
23	B	1020	CLA	C2B-C3B-CAB-CBB
23	C	1029	CLA	C2B-C3B-CAB-CBB
23	b	6016	CLA	C2B-C3B-CAB-CBB
23	b	6020	CLA	C2B-C3B-CAB-CBB
23	c	6029	CLA	C2B-C3B-CAB-CBB
26	D	1050	BCR	C1-C6-C7-C8
26	D	1050	BCR	C5-C6-C7-C8
26	K	1051	BCR	C1-C6-C7-C8
26	K	1051	BCR	C5-C6-C7-C8
26	Z	1053	BCR	C1-C6-C7-C8
26	Z	1053	BCR	C5-C6-C7-C8
26	d	6050	BCR	C1-C6-C7-C8
26	d	6050	BCR	C5-C6-C7-C8
26	k	6051	BCR	C1-C6-C7-C8
26	k	6051	BCR	C5-C6-C7-C8
26	t	1046	BCR	C1-C6-C7-C8
26	z	6053	BCR	C1-C6-C7-C8
26	z	6053	BCR	C5-C6-C7-C8
31	E	1040	HEM	C3D-CAD-CBD-CGD

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Mol	Chain	Res	Type	Atoms
31	e	6040	HEM	C3D-CAD-CBD-CGD
30	H	1058	DGD	CBB-CCB-CDB-CEB
30	h	6058	DGD	CBB-CCB-CDB-CEB
23	C	1035	CLA	O1A-CGA-O2A-C1
23	c	6035	CLA	O1A-CGA-O2A-C1
30	C	1056	DGD	CDA-CEA-CFA-CGA
30	c	6056	DGD	CDA-CEA-CFA-CGA
23	B	1020	CLA	C5-C6-C7-C8
23	b	6020	CLA	C5-C6-C7-C8
23	c	6034	CLA	C10-C11-C12-C13
23	C	1028	CLA	C2-C3-C5-C6
23	c	6028	CLA	C2-C3-C5-C6
25	d	6042	PQ9	C17-C18-C20-C21
23	C	1037	CLA	C4C-C3C-CAC-CBC
23	c	6037	CLA	C4C-C3C-CAC-CBC
29	B	1060	MGE	C3B-C4B-C5B-C6B
30	C	1056	DGD	CDB-CEB-CFB-CGB
30	C	1057	DGD	C5A-C6A-C7A-C8A
30	c	6056	DGD	CDB-CEB-CFB-CGB
30	c	6057	DGD	C5A-C6A-C7A-C8A
26	A	1044	BCR	C6-C7-C8-C9
26	a	6044	BCR	C6-C7-C8-C9
30	C	1055	DGD	O6D-C1D-O3G-C3G
30	c	6055	DGD	O6D-C1D-O3G-C3G
23	C	1034	CLA	C10-C11-C12-C13
24	A	1038	PHO	C8-C10-C11-C12
24	d	6038	PHO	C8-C10-C11-C12
29	D	1062	MGE	C5B-C6B-C7B-C8B
29	d	6062	MGE	C5B-C6B-C7B-C8B
30	h	6058	DGD	CAA-CBA-CCA-CDA
27	A	1063	LHG	C31-C32-C33-C34
27	a	6063	LHG	C31-C32-C33-C34
30	H	1058	DGD	CAA-CBA-CCA-CDA
30	H	1058	DGD	CAB-CBB-CCB-CDB
23	C	1025	CLA	C10-C11-C12-C13
23	c	6025	CLA	C10-C11-C12-C13
26	H	1049	BCR	C9-C10-C11-C12
26	h	6049	BCR	C9-C10-C11-C12
23	B	1010	CLA	C16-C17-C18-C20
23	b	6010	CLA	C16-C17-C18-C20
30	h	6058	DGD	CAB-CBB-CCB-CDB
27	A	1063	LHG	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
27	a	6063	LHG	C10-C11-C12-C13
29	L	1061	MGE	C2B-C3B-C4B-C5B
29	L	1061	MGE	C6B-C7B-C8B-C9B
29	d	6061	MGE	C2B-C3B-C4B-C5B
29	d	6061	MGE	C6B-C7B-C8B-C9B
29	L	1061	MGE	C2A-C3A-C4A-C5A
29	d	6061	MGE	C2A-C3A-C4A-C5A
23	C	1029	CLA	C5-C6-C7-C8
23	c	6029	CLA	C5-C6-C7-C8
26	K	1052	BCR	C36-C18-C19-C20
26	k	6052	BCR	C36-C18-C19-C20
29	B	1060	MGE	CBB-CCB-CDB-CEB
30	C	1057	DGD	C7A-C8A-C9A-CAA
30	c	6057	DGD	C7A-C8A-C9A-CAA
23	B	1012	CLA	C3-C5-C6-C7
23	d	6005	CLA	C4C-C3C-CAC-CBC
23	D	1008	CLA	C2A-CAA-CBA-CGA
23	d	6008	CLA	C2A-CAA-CBA-CGA
23	D	1005	CLA	C4C-C3C-CAC-CBC
23	H	1017	CLA	C16-C17-C18-C20
23	b	6017	CLA	C16-C17-C18-C20
29	J	1059	MGE	C2A-C3A-C4A-C5A
23	B	1023	CLA	C4-C3-C5-C6
23	b	6023	CLA	C4-C3-C5-C6
23	B	1023	CLA	C2-C3-C5-C6
23	b	6023	CLA	C2-C3-C5-C6
29	d	6059	MGE	C2A-C3A-C4A-C5A
29	b	6060	MGE	C7A-C8A-C9A-CAA
23	B	1016	CLA	O1D-CGD-O2D-CED
30	C	1055	DGD	CCB-CDB-CEB-CFB
24	A	1038	PHO	O1A-CGA-O2A-C1
24	d	6038	PHO	O1A-CGA-O2A-C1
23	c	6034	CLA	C3-C5-C6-C7
23	B	1013	CLA	C15-C16-C17-C18
23	b	6013	CLA	C15-C16-C17-C18
30	c	6055	DGD	CCB-CDB-CEB-CFB
29	B	1060	MGE	C1A-C2A-C3A-C4A
29	b	6060	MGE	C1A-C2A-C3A-C4A
23	b	6016	CLA	O1D-CGD-O2D-CED
29	J	1059	MGE	C8A-C9A-CAA-CBA
29	d	6059	MGE	C8A-C9A-CAA-CBA
23	A	1007	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
23	a	6007	CLA	C10-C11-C12-C13
23	C	1036	CLA	C4C-C3C-CAC-CBC
23	A	1006	CLA	O1A-CGA-O2A-C1
29	J	1059	MGE	C1A-C2A-C3A-C4A
29	d	6059	MGE	C1A-C2A-C3A-C4A
23	c	6036	CLA	C4C-C3C-CAC-CBC
23	C	1030	CLA	C5-C6-C7-C8
23	C	1035	CLA	C10-C11-C12-C13
23	c	6030	CLA	C5-C6-C7-C8
23	c	6035	CLA	C10-C11-C12-C13
23	a	6006	CLA	C3-C5-C6-C7
29	L	1061	MGE	O2G-C2G-C3G-O3G
29	d	6061	MGE	O2G-C2G-C3G-O3G
30	C	1056	DGD	O2G-C2G-C3G-O3G
30	c	6056	DGD	O2G-C2G-C3G-O3G
23	a	6006	CLA	O1A-CGA-O2A-C1
30	C	1056	DGD	C8B-C9B-CAB-CBB
30	C	1057	DGD	C8A-C9A-CAA-CBA
30	c	6056	DGD	C8B-C9B-CAB-CBB
30	c	6057	DGD	C8A-C9A-CAA-CBA
23	B	1024	CLA	C10-C11-C12-C13
23	b	6024	CLA	C10-C11-C12-C13
29	B	1060	MGE	C2B-C3B-C4B-C5B
30	C	1056	DGD	C6A-C7A-C8A-C9A
30	c	6056	DGD	C6A-C7A-C8A-C9A
31	V	1041	HEM	C4D-C3D-CAD-CBD
31	v	6041	HEM	C4D-C3D-CAD-CBD
23	B	1015	CLA	C4-C3-C5-C6
23	C	1029	CLA	C4-C3-C5-C6
23	b	6015	CLA	C4-C3-C5-C6
23	c	6029	CLA	C4-C3-C5-C6
31	V	1041	HEM	C3D-CAD-CBD-CGD
31	v	6041	HEM	C3D-CAD-CBD-CGD
23	C	1034	CLA	C3-C5-C6-C7
30	H	1058	DGD	C2B-C3B-C4B-C5B
30	H	1058	DGD	C5B-C6B-C7B-C8B
30	h	6058	DGD	C2B-C3B-C4B-C5B
30	H	1058	DGD	C8B-C9B-CAB-CBB
30	h	6058	DGD	C5B-C6B-C7B-C8B
30	h	6058	DGD	C8B-C9B-CAB-CBB
23	C	1029	CLA	C2C-C3C-CAC-CBC
23	c	6029	CLA	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
29	b	6060	MGE	C6B-C7B-C8B-C9B
23	B	1013	CLA	C13-C15-C16-C17
23	b	6013	CLA	C13-C15-C16-C17
30	c	6056	DGD	CFB-CGB-CHB-CIB
30	H	1058	DGD	C1B-C2B-C3B-C4B
29	J	1059	MGE	C4A-C5A-C6A-C7A
29	d	6059	MGE	C4A-C5A-C6A-C7A
30	C	1056	DGD	CFB-CGB-CHB-CIB
29	D	1062	MGE	C6A-C7A-C8A-C9A
29	d	6062	MGE	C6A-C7A-C8A-C9A
23	B	1012	CLA	C16-C17-C18-C20
23	b	6012	CLA	C16-C17-C18-C20
23	b	6011	CLA	C3-C5-C6-C7
23	B	1012	CLA	C1A-C2A-CAA-CBA
23	B	1013	CLA	C1A-C2A-CAA-CBA
23	B	1024	CLA	C1A-C2A-CAA-CBA
23	C	1028	CLA	C1A-C2A-CAA-CBA
23	C	1030	CLA	C1A-C2A-CAA-CBA
23	D	1004	CLA	C1A-C2A-CAA-CBA
23	b	6012	CLA	C1A-C2A-CAA-CBA
23	b	6013	CLA	C1A-C2A-CAA-CBA
23	b	6024	CLA	C1A-C2A-CAA-CBA
23	c	6028	CLA	C1A-C2A-CAA-CBA
23	c	6030	CLA	C1A-C2A-CAA-CBA
23	d	6004	CLA	C1A-C2A-CAA-CBA
30	h	6058	DGD	C1B-C2B-C3B-C4B
23	C	1034	CLA	C13-C15-C16-C17
24	A	1039	PHO	C8-C10-C11-C12
24	a	6039	PHO	C8-C10-C11-C12
23	A	1007	CLA	C3-C5-C6-C7
23	B	1011	CLA	C3-C5-C6-C7
23	a	6007	CLA	C3-C5-C6-C7
23	A	1006	CLA	C6-C7-C8-C10
23	B	1012	CLA	C12-C13-C15-C16
23	B	1013	CLA	C6-C7-C8-C10
23	B	1014	CLA	C11-C10-C8-C7
23	B	1016	CLA	C11-C12-C13-C15
23	B	1019	CLA	C6-C7-C8-C10
23	B	1021	CLA	C11-C10-C8-C7
23	B	1021	CLA	C12-C13-C15-C16
23	B	1022	CLA	C11-C10-C8-C7
23	B	1023	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
23	C	1025	CLA	C6-C7-C8-C10
23	C	1026	CLA	C6-C7-C8-C10
23	C	1034	CLA	C11-C10-C8-C7
23	C	1035	CLA	C6-C7-C8-C10
23	C	1036	CLA	C11-C10-C8-C7
23	C	1037	CLA	C6-C7-C8-C10
23	D	1008	CLA	C12-C13-C15-C16
23	H	1017	CLA	C11-C10-C8-C7
23	H	1017	CLA	C12-C13-C15-C16
23	b	6013	CLA	C6-C7-C8-C10
23	b	6014	CLA	C11-C10-C8-C7
23	b	6016	CLA	C11-C12-C13-C15
23	b	6017	CLA	C11-C10-C8-C7
23	b	6017	CLA	C12-C13-C15-C16
23	b	6019	CLA	C6-C7-C8-C10
23	b	6021	CLA	C11-C10-C8-C7
23	b	6021	CLA	C12-C13-C15-C16
23	b	6022	CLA	C11-C10-C8-C7
23	b	6023	CLA	C11-C10-C8-C7
23	c	6025	CLA	C6-C7-C8-C10
23	c	6026	CLA	C6-C7-C8-C10
23	c	6035	CLA	C6-C7-C8-C10
23	c	6036	CLA	C11-C10-C8-C7
23	c	6037	CLA	C6-C7-C8-C10
23	d	6008	CLA	C12-C13-C15-C16
30	H	1058	DGD	C3B-C4B-C5B-C6B
30	h	6058	DGD	C3B-C4B-C5B-C6B
23	B	1016	CLA	C15-C16-C17-C18
23	b	6016	CLA	C15-C16-C17-C18
23	A	1003	CLA	O1A-CGA-O2A-C1
23	a	6003	CLA	O1A-CGA-O2A-C1
30	C	1056	DGD	C4E-C5E-C6E-O5E
30	c	6056	DGD	C4E-C5E-C6E-O5E
23	B	1009	CLA	C4-C3-C5-C6
23	b	6009	CLA	C4-C3-C5-C6
23	B	1009	CLA	C14-C13-C15-C16
23	B	1013	CLA	C11-C10-C8-C9
23	B	1015	CLA	C6-C7-C8-C9
23	B	1019	CLA	C6-C7-C8-C9
23	B	1023	CLA	C14-C13-C15-C16
23	C	1025	CLA	C11-C10-C8-C9
23	b	6009	CLA	C14-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
23	b	6013	CLA	C11-C10-C8-C9
23	b	6015	CLA	C6-C7-C8-C9
23	b	6019	CLA	C6-C7-C8-C9
23	b	6023	CLA	C14-C13-C15-C16
23	c	6025	CLA	C11-C10-C8-C9
30	C	1056	DGD	C2E-C1E-O5D-C6D
30	c	6056	DGD	C2E-C1E-O5D-C6D
30	h	6058	DGD	C8A-C9A-CAA-CBA
27	A	1063	LHG	C4-C5-C6-O8
27	a	6063	LHG	C4-C5-C6-O8
29	L	1061	MGE	O1G-C1G-C2G-C3G
29	d	6061	MGE	O1G-C1G-C2G-C3G
30	C	1055	DGD	C1G-C2G-C3G-O3G
30	H	1058	DGD	O1G-C1G-C2G-C3G
30	c	6055	DGD	C1G-C2G-C3G-O3G
30	h	6058	DGD	O1G-C1G-C2G-C3G
30	H	1058	DGD	C8A-C9A-CAA-CBA
23	A	1003	CLA	C5-C6-C7-C8
23	a	6003	CLA	C5-C6-C7-C8
29	d	6062	MGE	C4A-C5A-C6A-C7A
23	C	1035	CLA	CBA-CGA-O2A-C1
23	c	6035	CLA	CBA-CGA-O2A-C1
23	B	1022	CLA	C16-C17-C18-C19
23	b	6022	CLA	C16-C17-C18-C19
29	D	1062	MGE	C4A-C5A-C6A-C7A
30	H	1058	DGD	CDB-CEB-CFB-CGB
30	h	6058	DGD	CDB-CEB-CFB-CGB
26	K	1052	BCR	C16-C17-C18-C36
23	C	1035	CLA	C15-C16-C17-C18
23	c	6035	CLA	C15-C16-C17-C18
30	H	1058	DGD	C7B-C8B-C9B-CAB
30	h	6058	DGD	C7B-C8B-C9B-CAB
23	B	1009	CLA	C2-C3-C5-C6
23	b	6009	CLA	C2-C3-C5-C6
29	b	6060	MGE	C4A-C5A-C6A-C7A
23	H	1017	CLA	C8-C10-C11-C12
23	b	6017	CLA	C8-C10-C11-C12
29	B	1060	MGE	C4A-C5A-C6A-C7A
23	A	1007	CLA	O2A-C1-C2-C3
23	C	1033	CLA	O2A-C1-C2-C3
23	a	6007	CLA	O2A-C1-C2-C3
23	c	6033	CLA	O2A-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
30	H	1058	DGD	C3G-C2G-O2G-C1B
30	h	6058	DGD	C3G-C2G-O2G-C1B
29	J	1059	MGE	C3A-C4A-C5A-C6A
29	d	6059	MGE	C3A-C4A-C5A-C6A
27	A	1063	LHG	C29-C30-C31-C32
27	a	6063	LHG	C29-C30-C31-C32
30	C	1056	DGD	C8A-C9A-CAA-CBA
30	c	6056	DGD	C8A-C9A-CAA-CBA
26	K	1052	BCR	C16-C17-C18-C19
30	C	1055	DGD	CAB-CBB-CCB-CDB
30	c	6055	DGD	CAB-CBB-CCB-CDB
23	c	6034	CLA	C13-C15-C16-C17
30	c	6056	DGD	CBB-CCB-CDB-CEB
23	C	1035	CLA	C16-C17-C18-C20
23	c	6035	CLA	C16-C17-C18-C20
30	C	1056	DGD	CBB-CCB-CDB-CEB
30	C	1055	DGD	C5B-C6B-C7B-C8B
30	c	6055	DGD	C5B-C6B-C7B-C8B
29	D	1062	MGE	O1G-C1G-C2G-O2G
29	d	6062	MGE	O1G-C1G-C2G-O2G
30	C	1055	DGD	O2G-C2G-C3G-O3G
30	H	1058	DGD	O1G-C1G-C2G-O2G
30	c	6055	DGD	O2G-C2G-C3G-O3G
30	h	6058	DGD	O1G-C1G-C2G-O2G
30	H	1058	DGD	CDA-CEA-CFA-CGA
30	h	6058	DGD	CDA-CEA-CFA-CGA
23	A	1006	CLA	C13-C15-C16-C17
29	D	1062	MGE	C2B-C3B-C4B-C5B
29	d	6062	MGE	C3A-C4A-C5A-C6A
29	d	6062	MGE	C2B-C3B-C4B-C5B
30	C	1057	DGD	CDB-CEB-CFB-CGB
30	c	6057	DGD	CDB-CEB-CFB-CGB
23	c	6034	CLA	C2A-CAA-CBA-CGA
23	B	1015	CLA	C3-C5-C6-C7
23	b	6015	CLA	C3-C5-C6-C7
29	D	1062	MGE	C3A-C4A-C5A-C6A
29	L	1061	MGE	CDB-CEB-CFB-CGB
29	d	6061	MGE	CDB-CEB-CFB-CGB
26	h	6049	BCR	C19-C20-C21-C22
26	t	1046	BCR	C15-C16-C17-C18
23	B	1019	CLA	C16-C17-C18-C20
23	b	6019	CLA	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
23	A	1007	CLA	C4-C3-C5-C6
23	a	6007	CLA	C4-C3-C5-C6
25	A	1043	PQ9	C19-C18-C20-C21
25	a	6043	PQ9	C19-C18-C20-C21
29	D	1062	MGE	C6B-C7B-C8B-C9B
29	d	6062	MGE	C6B-C7B-C8B-C9B
29	L	1061	MGE	C7B-C8B-C9B-CAB
23	A	1003	CLA	C6-C7-C8-C9
23	B	1012	CLA	C6-C7-C8-C9
23	B	1016	CLA	C11-C12-C13-C14
23	B	1016	CLA	C14-C13-C15-C16
23	C	1033	CLA	C11-C12-C13-C14
23	C	1035	CLA	C11-C10-C8-C9
23	C	1037	CLA	C6-C7-C8-C9
23	D	1008	CLA	C11-C10-C8-C9
23	D	1008	CLA	C14-C13-C15-C16
23	H	1017	CLA	C11-C10-C8-C9
23	a	6003	CLA	C6-C7-C8-C9
23	a	6006	CLA	C11-C10-C8-C9
23	b	6016	CLA	C11-C12-C13-C14
23	b	6016	CLA	C14-C13-C15-C16
23	b	6017	CLA	C11-C10-C8-C9
23	c	6033	CLA	C11-C12-C13-C14
23	c	6035	CLA	C11-C10-C8-C9
23	c	6037	CLA	C6-C7-C8-C9
23	d	6008	CLA	C11-C10-C8-C9
23	d	6008	CLA	C14-C13-C15-C16
24	A	1038	PHO	C14-C13-C15-C16
24	d	6038	PHO	C14-C13-C15-C16
23	A	1007	CLA	C4B-C3B-CAB-CBB
23	B	1024	CLA	C4B-C3B-CAB-CBB
23	H	1017	CLA	C4B-C3B-CAB-CBB
23	a	6007	CLA	C4B-C3B-CAB-CBB
23	b	6017	CLA	C4B-C3B-CAB-CBB
23	b	6024	CLA	C4B-C3B-CAB-CBB
29	d	6061	MGE	C7B-C8B-C9B-CAB
23	C	1030	CLA	C13-C15-C16-C17
23	c	6030	CLA	C13-C15-C16-C17
23	B	1022	CLA	C16-C17-C18-C20
23	b	6022	CLA	C16-C17-C18-C20
29	d	6062	MGE	CCB-CDB-CEB-CFB
29	B	1060	MGE	C2D-C1D-O3G-C3G

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Mol	Chain	Res	Type	Atoms
29	b	6060	MGE	C2D-C1D-O3G-C3G
29	D	1062	MGE	CCB-CDB-CEB-CFB
23	C	1036	CLA	C3-C5-C6-C7
23	H	1017	CLA	C3-C5-C6-C7
23	b	6017	CLA	C3-C5-C6-C7
23	c	6036	CLA	C3-C5-C6-C7
23	A	1003	CLA	C6-C7-C8-C10
23	A	1003	CLA	C12-C13-C15-C16
23	A	1007	CLA	C11-C10-C8-C7
23	B	1009	CLA	C11-C10-C8-C7
23	B	1010	CLA	C11-C10-C8-C7
23	B	1012	CLA	C6-C7-C8-C10
23	B	1013	CLA	C11-C10-C8-C7
23	B	1015	CLA	C6-C7-C8-C10
23	C	1025	CLA	C11-C10-C8-C7
23	C	1033	CLA	C11-C10-C8-C7
23	C	1034	CLA	C11-C12-C13-C15
23	C	1035	CLA	C11-C10-C8-C7
23	D	1008	CLA	C11-C10-C8-C7
23	a	6003	CLA	C6-C7-C8-C10
23	a	6003	CLA	C12-C13-C15-C16
23	a	6006	CLA	C6-C7-C8-C10
23	a	6006	CLA	C11-C10-C8-C7
23	a	6007	CLA	C11-C10-C8-C7
23	b	6009	CLA	C11-C10-C8-C7
23	b	6010	CLA	C11-C10-C8-C7
23	b	6013	CLA	C11-C10-C8-C7
23	b	6015	CLA	C6-C7-C8-C10
23	c	6025	CLA	C11-C10-C8-C7
23	c	6033	CLA	C11-C10-C8-C7
23	c	6034	CLA	C11-C12-C13-C15
23	c	6035	CLA	C11-C10-C8-C7
23	d	6008	CLA	C11-C10-C8-C7
24	A	1038	PHO	C12-C13-C15-C16
24	A	1039	PHO	C11-C12-C13-C15
24	A	1039	PHO	C12-C13-C15-C16
24	a	6039	PHO	C11-C12-C13-C15
24	a	6039	PHO	C12-C13-C15-C16
24	d	6038	PHO	C12-C13-C15-C16
30	C	1056	DGD	CAB-CBB-CCB-CDB
23	D	1005	CLA	C5-C6-C7-C8
23	d	6005	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
30	C	1057	DGD	CFA-CGA-CHA-CIA
30	c	6057	DGD	CFA-CGA-CHA-CIA
30	c	6056	DGD	CAB-CBB-CCB-CDB
23	B	1024	CLA	C4-C3-C5-C6
23	C	1031	CLA	C3A-C2A-CAA-CBA
23	b	6024	CLA	C4-C3-C5-C6
23	c	6031	CLA	C3A-C2A-CAA-CBA
24	A	1039	PHO	C3A-C2A-CAA-CBA
24	a	6039	PHO	C3A-C2A-CAA-CBA
23	B	1024	CLA	C2-C3-C5-C6
23	b	6024	CLA	C2-C3-C5-C6
26	H	1049	BCR	C19-C20-C21-C22
23	H	1017	CLA	CBD-CGD-O2D-CED
30	C	1056	DGD	O1G-C1G-C2G-C3G
30	C	1056	DGD	C1G-C2G-C3G-O3G
30	H	1058	DGD	C1G-C2G-C3G-O3G
30	c	6056	DGD	O1G-C1G-C2G-C3G
30	c	6056	DGD	C1G-C2G-C3G-O3G
30	h	6058	DGD	C1G-C2G-C3G-O3G
23	b	6017	CLA	CBD-CGD-O2D-CED
27	A	1063	LHG	C26-C27-C28-C29
23	C	1033	CLA	C16-C17-C18-C19
23	c	6033	CLA	C16-C17-C18-C19
27	a	6063	LHG	C26-C27-C28-C29
27	a	6063	LHG	C11-C12-C13-C14
30	C	1057	DGD	C5B-C6B-C7B-C8B
30	c	6057	DGD	C5B-C6B-C7B-C8B
23	B	1022	CLA	C10-C11-C12-C13
23	b	6022	CLA	C10-C11-C12-C13
27	A	1063	LHG	C11-C12-C13-C14
23	C	1033	CLA	C16-C17-C18-C20
23	c	6033	CLA	C16-C17-C18-C20
23	B	1013	CLA	O1D-CGD-O2D-CED
23	b	6013	CLA	O1D-CGD-O2D-CED
23	B	1024	CLA	C2B-C3B-CAB-CBB
23	H	1017	CLA	C2B-C3B-CAB-CBB
23	b	6017	CLA	C2B-C3B-CAB-CBB
23	b	6024	CLA	C2B-C3B-CAB-CBB
23	C	1026	CLA	C5-C6-C7-C8
23	c	6026	CLA	C5-C6-C7-C8
31	V	1041	HEM	C2D-C3D-CAD-CBD
31	v	6041	HEM	C2D-C3D-CAD-CBD

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Mol	Chain	Res	Type	Atoms
23	B	1010	CLA	C16-C17-C18-C19
23	a	6006	CLA	C16-C17-C18-C19
23	b	6010	CLA	C16-C17-C18-C19
23	B	1023	CLA	C13-C15-C16-C17
23	C	1036	CLA	C5-C6-C7-C8
23	b	6023	CLA	C13-C15-C16-C17
23	c	6036	CLA	C5-C6-C7-C8
29	L	1061	MGE	O1G-C1G-C2G-O2G
29	b	6060	MGE	O2G-C2G-C3G-O3G
29	d	6061	MGE	O1G-C1G-C2G-O2G
30	C	1056	DGD	O1G-C1G-C2G-O2G
30	C	1057	DGD	O2G-C2G-C3G-O3G
30	c	6056	DGD	O1G-C1G-C2G-O2G
30	c	6057	DGD	O2G-C2G-C3G-O3G
23	C	1029	CLA	C15-C16-C17-C18
23	c	6029	CLA	C15-C16-C17-C18
30	C	1055	DGD	CDA-CEA-CFA-CGA
30	c	6055	DGD	CDA-CEA-CFA-CGA
23	A	1007	CLA	C2-C3-C5-C6
23	a	6007	CLA	C2-C3-C5-C6
29	J	1059	MGE	CAB-CBB-CCB-CDB
29	d	6059	MGE	CAB-CBB-CCB-CDB
23	H	1017	CLA	C16-C17-C18-C19
23	b	6017	CLA	C16-C17-C18-C19
29	J	1059	MGE	C2B-C3B-C4B-C5B
29	J	1059	MGE	C6B-C7B-C8B-C9B
29	d	6059	MGE	C2B-C3B-C4B-C5B
29	d	6059	MGE	C6B-C7B-C8B-C9B
23	A	1007	CLA	C11-C10-C8-C9
23	B	1010	CLA	C11-C12-C13-C14
23	C	1030	CLA	C11-C10-C8-C9
23	D	1005	CLA	C11-C10-C8-C9
23	a	6007	CLA	C11-C10-C8-C9
23	b	6010	CLA	C11-C12-C13-C14
23	b	6012	CLA	C6-C7-C8-C9
23	c	6030	CLA	C11-C10-C8-C9
23	d	6005	CLA	C11-C10-C8-C9
30	C	1057	DGD	O6E-C1E-O5D-C6D
30	c	6057	DGD	O6E-C1E-O5D-C6D
23	b	6015	CLA	C4C-C3C-CAC-CBC
23	B	1014	CLA	C16-C17-C18-C19
23	B	1019	CLA	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
23	B	1023	CLA	C16-C17-C18-C19
23	b	6014	CLA	C16-C17-C18-C19
23	b	6019	CLA	C16-C17-C18-C19
23	b	6023	CLA	C16-C17-C18-C19
29	B	1060	MGE	C7B-C8B-C9B-CAB
30	C	1057	DGD	C2E-C1E-O5D-C6D
30	c	6057	DGD	C2E-C1E-O5D-C6D
23	C	1027	CLA	C4C-C3C-CAC-CBC
23	B	1015	CLA	C4C-C3C-CAC-CBC
23	C	1036	CLA	C15-C16-C17-C18
23	c	6036	CLA	C15-C16-C17-C18
25	A	1043	PQ9	C17-C18-C20-C21
25	a	6043	PQ9	C17-C18-C20-C21
23	C	1035	CLA	C16-C17-C18-C19
23	a	6006	CLA	C16-C17-C18-C20
23	c	6035	CLA	C16-C17-C18-C19
29	d	6061	MGE	C5A-C6A-C7A-C8A
30	C	1057	DGD	C3B-C4B-C5B-C6B
30	c	6057	DGD	C3B-C4B-C5B-C6B
29	J	1059	MGE	CCB-CDB-CEB-CFB
29	L	1061	MGE	C5A-C6A-C7A-C8A
29	d	6059	MGE	CCB-CDB-CEB-CFB
26	K	1051	BCR	C16-C17-C18-C36
26	k	6051	BCR	C16-C17-C18-C36
26	k	6052	BCR	C16-C17-C18-C36
23	B	1009	CLA	O1A-CGA-O2A-C1
23	b	6009	CLA	O1A-CGA-O2A-C1
29	D	1062	MGE	C2A-C1A-O1G-C1G
29	d	6062	MGE	C2A-C1A-O1G-C1G
30	H	1058	DGD	C2A-C1A-O1G-C1G
30	h	6058	DGD	C2A-C1A-O1G-C1G
23	a	6006	CLA	C13-C15-C16-C17
23	C	1029	CLA	C16-C17-C18-C19
23	C	1036	CLA	C16-C17-C18-C20
23	c	6029	CLA	C16-C17-C18-C19
23	c	6036	CLA	C16-C17-C18-C20
23	B	1010	CLA	C11-C12-C13-C15
23	B	1020	CLA	C11-C10-C8-C7
23	C	1030	CLA	C11-C10-C8-C7
23	C	1030	CLA	C12-C13-C15-C16
23	C	1034	CLA	C6-C7-C8-C10
23	D	1004	CLA	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
23	D	1004	CLA	C11-C10-C8-C7
23	b	6010	CLA	C11-C12-C13-C15
23	b	6012	CLA	C6-C7-C8-C10
23	b	6020	CLA	C11-C10-C8-C7
23	c	6030	CLA	C11-C10-C8-C7
23	c	6030	CLA	C12-C13-C15-C16
23	c	6034	CLA	C6-C7-C8-C10
23	c	6034	CLA	C11-C10-C8-C7
23	d	6004	CLA	C6-C7-C8-C10
23	d	6004	CLA	C11-C10-C8-C7
26	C	1054	BCR	C17-C18-C19-C20
26	K	1052	BCR	C17-C18-C19-C20
26	Z	1053	BCR	C7-C8-C9-C10
26	c	6054	BCR	C17-C18-C19-C20
26	z	6053	BCR	C7-C8-C9-C10
29	D	1062	MGE	C2G-C3G-O3G-C1D
29	d	6062	MGE	C2G-C3G-O3G-C1D
24	A	1039	PHO	C16-C17-C18-C20
24	a	6039	PHO	C16-C17-C18-C20
27	A	1063	LHG	C28-C29-C30-C31
27	a	6063	LHG	C28-C29-C30-C31
23	B	1024	CLA	C15-C16-C17-C18
23	b	6024	CLA	C15-C16-C17-C18
29	B	1060	MGE	C1G-C2G-O2G-C1B
29	b	6060	MGE	C1G-C2G-O2G-C1B
23	C	1026	CLA	C15-C16-C17-C18
23	c	6034	CLA	C16-C17-C18-C19
30	c	6055	DGD	C9A-CAA-CBA-CCA
23	c	6026	CLA	C15-C16-C17-C18
30	C	1055	DGD	C9A-CAA-CBA-CCA
29	B	1060	MGE	C8A-C9A-CAA-CBA
30	C	1056	DGD	CEA-CFA-CGA-CHA
30	c	6056	DGD	CEA-CFA-CGA-CHA
29	b	6060	MGE	C1G-C2G-C3G-O3G
30	C	1057	DGD	O1G-C1G-C2G-C3G
30	C	1057	DGD	C1G-C2G-C3G-O3G
30	c	6057	DGD	O1G-C1G-C2G-C3G
30	c	6057	DGD	C1G-C2G-C3G-O3G
29	D	1062	MGE	CDB-CEB-CFB-CGB
29	d	6062	MGE	CDB-CEB-CFB-CGB
24	A	1039	PHO	C5-C6-C7-C8
24	a	6039	PHO	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
23	C	1034	CLA	C16-C17-C18-C19
23	D	1005	CLA	C16-C17-C18-C20
23	d	6005	CLA	C16-C17-C18-C20
29	J	1059	MGE	C4D-C5D-C6D-O5D
29	d	6059	MGE	C4D-C5D-C6D-O5D
23	C	1035	CLA	C4-C3-C5-C6
23	c	6035	CLA	C4-C3-C5-C6
27	A	1063	LHG	O7-C5-C6-O8
27	a	6063	LHG	O7-C5-C6-O8
29	B	1060	MGE	O2G-C2G-C3G-O3G
23	c	6025	CLA	C13-C15-C16-C17
23	A	1007	CLA	C6-C7-C8-C9
23	B	1022	CLA	C11-C10-C8-C9
23	D	1004	CLA	C11-C10-C8-C9
23	D	1004	CLA	C14-C13-C15-C16
23	a	6007	CLA	C6-C7-C8-C9
23	b	6022	CLA	C11-C10-C8-C9
23	d	6004	CLA	C11-C10-C8-C9
23	d	6004	CLA	C14-C13-C15-C16
30	C	1055	DGD	CBB-CCB-CDB-CEB
30	c	6055	DGD	CBB-CCB-CDB-CEB
27	a	6063	LHG	C9-C10-C11-C12
23	C	1025	CLA	C13-C15-C16-C17
27	A	1063	LHG	C9-C10-C11-C12
29	b	6060	MGE	C2B-C3B-C4B-C5B
29	D	1062	MGE	O1A-C1A-O1G-C1G
29	d	6062	MGE	O1A-C1A-O1G-C1G
30	H	1058	DGD	O1A-C1A-O1G-C1G
30	h	6058	DGD	O1A-C1A-O1G-C1G
23	A	1007	CLA	C16-C17-C18-C20
23	B	1011	CLA	C16-C17-C18-C20
23	a	6007	CLA	C16-C17-C18-C20
23	b	6011	CLA	C16-C17-C18-C20
27	A	1063	LHG	C12-C13-C14-C15
27	a	6063	LHG	C12-C13-C14-C15
23	b	6015	CLA	C2-C3-C5-C6
29	b	6060	MGE	C4B-C5B-C6B-C7B
23	B	1009	CLA	C3-C5-C6-C7
23	B	1010	CLA	C3-C5-C6-C7
23	b	6009	CLA	C3-C5-C6-C7
23	b	6010	CLA	C3-C5-C6-C7
24	A	1039	PHO	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
24	a	6039	PHO	C16-C17-C18-C19
23	B	1013	CLA	C4B-C3B-CAB-CBB
23	D	1004	CLA	C4B-C3B-CAB-CBB
23	b	6013	CLA	C4B-C3B-CAB-CBB
23	d	6004	CLA	C4B-C3B-CAB-CBB
23	B	1015	CLA	C2-C3-C5-C6
23	C	1029	CLA	C2-C3-C5-C6
23	c	6029	CLA	C2-C3-C5-C6
26	k	6052	BCR	C17-C18-C19-C20
23	C	1029	CLA	C2A-CAA-CBA-CGA
23	c	6029	CLA	C2A-CAA-CBA-CGA
23	A	1007	CLA	C8-C10-C11-C12
23	a	6007	CLA	C8-C10-C11-C12
23	B	1019	CLA	C11-C10-C8-C7
23	B	1019	CLA	C11-C12-C13-C15
23	B	1020	CLA	C12-C13-C15-C16
23	C	1025	CLA	C12-C13-C15-C16
23	C	1034	CLA	C12-C13-C15-C16
23	D	1004	CLA	C12-C13-C15-C16
23	b	6019	CLA	C11-C10-C8-C7
23	b	6019	CLA	C11-C12-C13-C15
23	b	6020	CLA	C12-C13-C15-C16
23	c	6025	CLA	C12-C13-C15-C16
23	c	6034	CLA	C12-C13-C15-C16
23	d	6004	CLA	C12-C13-C15-C16
24	A	1039	PHO	C11-C10-C8-C7
24	a	6039	PHO	C11-C10-C8-C7
23	A	1006	CLA	C16-C17-C18-C19
23	B	1015	CLA	C16-C17-C18-C20
23	b	6015	CLA	C16-C17-C18-C20
30	H	1058	DGD	C4A-C5A-C6A-C7A
30	h	6058	DGD	C4A-C5A-C6A-C7A
23	B	1009	CLA	C11-C10-C8-C9
23	B	1014	CLA	C14-C13-C15-C16
23	C	1028	CLA	C14-C13-C15-C16
23	C	1030	CLA	C14-C13-C15-C16
23	C	1034	CLA	C6-C7-C8-C9
23	b	6009	CLA	C11-C10-C8-C9
23	b	6014	CLA	C14-C13-C15-C16
23	c	6028	CLA	C14-C13-C15-C16
23	c	6030	CLA	C14-C13-C15-C16
23	c	6034	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
23	B	1021	CLA	C15-C16-C17-C18
23	b	6021	CLA	C15-C16-C17-C18
26	K	1052	BCR	C9-C10-C11-C12
29	L	1061	MGE	C3B-C4B-C5B-C6B
29	d	6061	MGE	C3B-C4B-C5B-C6B
30	H	1058	DGD	O2G-C2G-C3G-O3G
30	h	6058	DGD	O2G-C2G-C3G-O3G
29	b	6060	MGE	C5B-C6B-C7B-C8B
23	C	1031	CLA	C10-C11-C12-C13
23	c	6031	CLA	C10-C11-C12-C13
23	C	1031	CLA	O1A-CGA-O2A-C1
23	c	6031	CLA	O1A-CGA-O2A-C1
23	B	1016	CLA	CAD-CBD-CGD-O2D
23	C	1030	CLA	CAD-CBD-CGD-O2D
23	C	1036	CLA	CAD-CBD-CGD-O2D
23	D	1008	CLA	CAD-CBD-CGD-O2D
23	b	6016	CLA	CAD-CBD-CGD-O2D
23	c	6030	CLA	CAD-CBD-CGD-O2D
23	c	6036	CLA	CAD-CBD-CGD-O2D
23	d	6008	CLA	CAD-CBD-CGD-O2D
23	C	1025	CLA	C16-C17-C18-C19
23	c	6025	CLA	C16-C17-C18-C19
30	C	1055	DGD	CFA-CGA-CHA-CIA
30	c	6055	DGD	C8B-C9B-CAB-CBB
30	C	1055	DGD	C8B-C9B-CAB-CBB
30	c	6055	DGD	CFA-CGA-CHA-CIA
29	b	6060	MGE	C8A-C9A-CAA-CBA
23	A	1007	CLA	CAD-CBD-CGD-O1D
23	B	1016	CLA	CAD-CBD-CGD-O1D
23	B	1019	CLA	CHA-CBD-CGD-O2D
23	C	1026	CLA	CHA-CBD-CGD-O1D
23	C	1028	CLA	CAD-CBD-CGD-O1D
23	C	1029	CLA	CHA-CBD-CGD-O1D
23	C	1030	CLA	CAD-CBD-CGD-O1D
23	C	1036	CLA	CAD-CBD-CGD-O1D
23	D	1005	CLA	CHA-CBD-CGD-O2D
23	a	6007	CLA	CAD-CBD-CGD-O1D
23	b	6016	CLA	CAD-CBD-CGD-O1D
23	b	6019	CLA	CHA-CBD-CGD-O2D
23	c	6026	CLA	CHA-CBD-CGD-O1D
23	c	6028	CLA	CAD-CBD-CGD-O1D
23	c	6029	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
23	c	6030	CLA	CAD-CBD-CGD-O1D
23	c	6036	CLA	CAD-CBD-CGD-O1D
23	d	6005	CLA	CHA-CBD-CGD-O2D
24	A	1039	PHO	CHA-CBD-CGD-O2D
24	a	6039	PHO	CHA-CBD-CGD-O2D
26	B	1047	BCR	C15-C16-C17-C18
26	b	6047	BCR	C15-C16-C17-C18
27	A	1063	LHG	C11-C10-C9-C8
27	a	6063	LHG	C11-C10-C9-C8
29	B	1060	MGE	C2A-C3A-C4A-C5A
30	C	1055	DGD	CBA-CCA-CDA-CEA
30	c	6055	DGD	CBA-CCA-CDA-CEA
23	C	1035	CLA	C2-C3-C5-C6
23	c	6035	CLA	C2-C3-C5-C6
29	J	1059	MGE	C5A-C6A-C7A-C8A
29	d	6059	MGE	C5A-C6A-C7A-C8A
26	H	1049	BCR	C18-C19-C20-C21
26	Z	1053	BCR	C10-C11-C12-C13
26	h	6049	BCR	C18-C19-C20-C21
26	z	6053	BCR	C10-C11-C12-C13
23	C	1033	CLA	CAA-CBA-CGA-O2A
23	c	6033	CLA	CAA-CBA-CGA-O2A
30	C	1057	DGD	C4B-C5B-C6B-C7B
26	D	1050	BCR	C15-C16-C17-C18
23	C	1036	CLA	C16-C17-C18-C19
23	c	6036	CLA	C16-C17-C18-C19
30	c	6057	DGD	C4B-C5B-C6B-C7B
23	A	1003	CLA	C11-C10-C8-C9
23	C	1026	CLA	C11-C12-C13-C14
23	C	1028	CLA	C11-C10-C8-C9
23	C	1030	CLA	C6-C7-C8-C9
23	C	1034	CLA	C11-C12-C13-C14
23	a	6003	CLA	C11-C10-C8-C9
23	c	6026	CLA	C11-C12-C13-C14
23	c	6028	CLA	C11-C10-C8-C9
23	c	6030	CLA	C6-C7-C8-C9
23	c	6034	CLA	C11-C12-C13-C14
24	A	1038	PHO	C6-C7-C8-C9
24	d	6038	PHO	C6-C7-C8-C9
29	b	6060	MGE	C2A-C3A-C4A-C5A
23	B	1018	CLA	C12-C13-C15-C16
23	C	1027	CLA	C6-C7-C8-C10

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Mol	Chain	Res	Type	Atoms
23	C	1030	CLA	C6-C7-C8-C10
23	C	1031	CLA	C12-C13-C15-C16
23	C	1032	CLA	C11-C10-C8-C7
23	b	6016	CLA	C6-C7-C8-C10
23	b	6018	CLA	C12-C13-C15-C16
23	c	6027	CLA	C6-C7-C8-C10
23	c	6030	CLA	C6-C7-C8-C10
23	c	6031	CLA	C12-C13-C15-C16
23	c	6032	CLA	C11-C10-C8-C7
26	K	1051	BCR	C16-C17-C18-C19
26	k	6052	BCR	C16-C17-C18-C19
25	a	6043	PQ9	C29-C28-C30-C31
23	B	1020	CLA	C16-C17-C18-C19
23	b	6020	CLA	C16-C17-C18-C19
30	C	1056	DGD	C5A-C6A-C7A-C8A
30	c	6056	DGD	C5A-C6A-C7A-C8A
26	d	6050	BCR	C15-C16-C17-C18
29	L	1061	MGE	C2G-C1G-O1G-C1A
29	d	6061	MGE	C2G-C1G-O1G-C1A
23	C	1033	CLA	C8-C10-C11-C12
23	c	6033	CLA	C8-C10-C11-C12
23	a	6006	CLA	C4-C3-C5-C6
23	b	6012	CLA	CAA-CBA-CGA-O2A
30	C	1055	DGD	C9B-CAB-CBB-CCB
30	c	6055	DGD	C9B-CAB-CBB-CCB
29	D	1062	MGE	O1G-C1G-C2G-C3G
29	d	6062	MGE	O1G-C1G-C2G-C3G
29	J	1059	MGE	C9A-CAA-CBA-CCA
29	d	6059	MGE	C9A-CAA-CBA-CCA
23	C	1027	CLA	C2A-CAA-CBA-CGA
23	H	1017	CLA	C2A-CAA-CBA-CGA
23	b	6017	CLA	C2A-CAA-CBA-CGA
23	c	6027	CLA	C2A-CAA-CBA-CGA
23	a	6007	CLA	C16-C17-C18-C19
23	H	1017	CLA	C4-C3-C5-C6
23	b	6017	CLA	C4-C3-C5-C6
27	a	6063	LHG	C32-C33-C34-C35
27	A	1063	LHG	C32-C33-C34-C35
23	B	1012	CLA	CAA-CBA-CGA-O2A
23	B	1021	CLA	C6-C7-C8-C9
23	D	1005	CLA	C6-C7-C8-C9
23	b	6021	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
23	d	6005	CLA	C6-C7-C8-C9
23	B	1011	CLA	C10-C11-C12-C13
23	b	6011	CLA	C10-C11-C12-C13
30	C	1057	DGD	O6D-C5D-C6D-O5D
30	c	6057	DGD	O6D-C5D-C6D-O5D
23	A	1007	CLA	C16-C17-C18-C19
29	d	6061	MGE	C1A-C2A-C3A-C4A
29	J	1059	MGE	C6A-C7A-C8A-C9A
23	A	1006	CLA	C4-C3-C5-C6
24	A	1039	PHO	C4-C3-C5-C6
24	a	6039	PHO	C4-C3-C5-C6
23	B	1019	CLA	C15-C16-C17-C18
29	d	6059	MGE	C6A-C7A-C8A-C9A
23	b	6019	CLA	C15-C16-C17-C18
29	L	1061	MGE	C1A-C2A-C3A-C4A
23	B	1015	CLA	C11-C10-C8-C7
23	B	1016	CLA	C6-C7-C8-C10
23	C	1026	CLA	C11-C12-C13-C15
23	C	1032	CLA	C11-C12-C13-C15
23	b	6015	CLA	C11-C10-C8-C7
23	c	6026	CLA	C11-C12-C13-C15
23	c	6032	CLA	C11-C12-C13-C15
27	A	1063	LHG	C25-C26-C27-C28
27	a	6063	LHG	C25-C26-C27-C28
23	b	6019	CLA	C2C-C3C-CAC-CBC
29	d	6061	MGE	CAB-CBB-CCB-CDB
23	B	1020	CLA	C16-C17-C18-C20
23	b	6020	CLA	C16-C17-C18-C20
29	L	1061	MGE	CAB-CBB-CCB-CDB
23	A	1007	CLA	C3A-C2A-CAA-CBA
23	a	6007	CLA	C3A-C2A-CAA-CBA
25	A	1043	PQ9	C29-C28-C30-C31
25	d	6042	PQ9	C29-C28-C30-C31
23	A	1003	CLA	C8-C10-C11-C12
23	a	6003	CLA	C8-C10-C11-C12
23	a	6006	CLA	C2-C3-C5-C6
23	B	1019	CLA	C2C-C3C-CAC-CBC
30	c	6057	DGD	C4D-C5D-C6D-O5D
23	C	1037	CLA	C10-C11-C12-C13
29	b	6060	MGE	C8B-C9B-CAB-CBB
23	A	1006	CLA	C2-C1-O2A-CGA
23	D	1008	CLA	C2-C1-O2A-CGA

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Mol	Chain	Res	Type	Atoms
23	d	6008	CLA	C2-C1-O2A-CGA
26	b	6047	BCR	C9-C10-C11-C12
23	A	1006	CLA	C15-C16-C17-C18
23	c	6037	CLA	C10-C11-C12-C13
30	C	1057	DGD	C4D-C5D-C6D-O5D
29	B	1060	MGE	C1G-C2G-C3G-O3G
30	C	1055	DGD	C4B-C5B-C6B-C7B
31	v	6041	HEM	CAD-CBD-CGD-O2D
23	B	1013	CLA	C14-C13-C15-C16
23	D	1005	CLA	C11-C12-C13-C14
23	a	6006	CLA	C14-C13-C15-C16
23	b	6013	CLA	C14-C13-C15-C16
23	b	6018	CLA	C6-C7-C8-C9
23	d	6005	CLA	C11-C12-C13-C14
24	A	1039	PHO	C11-C10-C8-C9
24	a	6039	PHO	C11-C10-C8-C9
30	c	6055	DGD	C4B-C5B-C6B-C7B
31	V	1041	HEM	CAD-CBD-CGD-O2D
24	A	1039	PHO	C1A-C2A-CAA-CBA
24	a	6039	PHO	C1A-C2A-CAA-CBA
30	c	6056	DGD	C3A-C4A-C5A-C6A
23	c	6037	CLA	CBA-CGA-O2A-C1
30	C	1056	DGD	C3A-C4A-C5A-C6A
23	B	1024	CLA	O1A-CGA-O2A-C1
23	b	6024	CLA	O1A-CGA-O2A-C1
26	k	6051	BCR	C16-C17-C18-C19
23	C	1037	CLA	CBA-CGA-O2A-C1
23	B	1013	CLA	C2B-C3B-CAB-CBB
23	D	1004	CLA	C2B-C3B-CAB-CBB
23	b	6013	CLA	C2B-C3B-CAB-CBB
23	d	6004	CLA	C2B-C3B-CAB-CBB
23	C	1025	CLA	C16-C17-C18-C20
23	C	1034	CLA	C16-C17-C18-C20
25	D	1042	PQ9	C29-C28-C30-C31
24	A	1039	PHO	C2-C3-C5-C6
24	a	6039	PHO	C2-C3-C5-C6
29	D	1062	MGE	C2A-C3A-C4A-C5A
29	d	6062	MGE	C2A-C3A-C4A-C5A
26	B	1047	BCR	C9-C10-C11-C12
23	B	1011	CLA	C11-C12-C13-C15
23	B	1012	CLA	C11-C10-C8-C7
23	B	1018	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
23	B	1021	CLA	C6-C7-C8-C10
23	C	1026	CLA	C12-C13-C15-C16
23	C	1027	CLA	C11-C12-C13-C15
23	C	1031	CLA	C11-C10-C8-C7
23	b	6011	CLA	C11-C10-C8-C7
23	b	6011	CLA	C11-C12-C13-C15
23	b	6018	CLA	C11-C10-C8-C7
23	b	6021	CLA	C6-C7-C8-C10
23	c	6026	CLA	C12-C13-C15-C16
23	c	6027	CLA	C11-C12-C13-C15
23	c	6031	CLA	C11-C10-C8-C7
23	c	6036	CLA	C11-C12-C13-C15
23	c	6025	CLA	C16-C17-C18-C20
30	C	1055	DGD	O1G-C1G-C2G-O2G
30	c	6055	DGD	O1G-C1G-C2G-O2G
23	C	1036	CLA	C13-C15-C16-C17
25	a	6043	PQ9	C34-C33-C35-C36
23	B	1021	CLA	C8-C10-C11-C12
23	c	6036	CLA	C13-C15-C16-C17
23	A	1006	CLA	C2-C3-C5-C6
29	B	1060	MGE	C8B-C9B-CAB-CBB
23	B	1015	CLA	C2-C1-O2A-CGA
23	b	6015	CLA	C2-C1-O2A-CGA
23	C	1032	CLA	C15-C16-C17-C18
23	C	1037	CLA	C13-C15-C16-C17
23	b	6021	CLA	C8-C10-C11-C12
23	c	6032	CLA	C15-C16-C17-C18
23	c	6037	CLA	C13-C15-C16-C17
23	A	1006	CLA	C3-C5-C6-C7
31	v	6041	HEM	CAD-CBD-CGD-O1D
23	B	1018	CLA	C6-C7-C8-C9
23	B	1020	CLA	C11-C12-C13-C14
23	C	1027	CLA	C14-C13-C15-C16
23	c	6027	CLA	C14-C13-C15-C16
23	B	1024	CLA	C5-C6-C7-C8
23	b	6024	CLA	C5-C6-C7-C8
23	C	1029	CLA	C4C-C3C-CAC-CBC
23	c	6029	CLA	C4C-C3C-CAC-CBC
31	V	1041	HEM	CAD-CBD-CGD-O1D
25	A	1043	PQ9	C34-C33-C35-C36
23	B	1022	CLA	O1A-CGA-O2A-C1
23	b	6022	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
23	B	1018	CLA	O1D-CGD-O2D-CED
29	D	1062	MGE	C1G-C2G-C3G-O3G
29	d	6062	MGE	C1G-C2G-C3G-O3G
23	b	6018	CLA	O1D-CGD-O2D-CED
30	C	1055	DGD	C3B-C4B-C5B-C6B
23	B	1015	CLA	C4B-C3B-CAB-CBB
23	b	6015	CLA	C4B-C3B-CAB-CBB
25	d	6042	PQ9	C40-C41-C42-C43
30	c	6055	DGD	C3B-C4B-C5B-C6B
30	C	1055	DGD	O1G-C1A-C2A-C3A
30	c	6055	DGD	O1G-C1A-C2A-C3A
23	D	1005	CLA	C16-C17-C18-C19
23	d	6005	CLA	C16-C17-C18-C19
23	B	1011	CLA	C11-C10-C8-C7
23	B	1021	CLA	C11-C12-C13-C15
23	C	1027	CLA	C12-C13-C15-C16
23	C	1036	CLA	C11-C12-C13-C15
23	b	6021	CLA	C11-C12-C13-C15
23	c	6027	CLA	C12-C13-C15-C16
23	A	1006	CLA	C11-C10-C8-C9
23	B	1012	CLA	C11-C12-C13-C14
23	C	1035	CLA	C14-C13-C15-C16
23	b	6012	CLA	C11-C12-C13-C14
23	b	6020	CLA	C11-C12-C13-C14
23	c	6035	CLA	C14-C13-C15-C16
23	C	1028	CLA	C2A-CAA-CBA-CGA
23	c	6028	CLA	C2A-CAA-CBA-CGA
23	B	1010	CLA	C2-C1-O2A-CGA
23	B	1019	CLA	C2-C1-O2A-CGA
23	H	1017	CLA	C2-C1-O2A-CGA
23	a	6006	CLA	C2-C1-O2A-CGA
23	b	6010	CLA	C2-C1-O2A-CGA
23	b	6017	CLA	C2-C1-O2A-CGA
23	b	6019	CLA	C2-C1-O2A-CGA
23	C	1037	CLA	C3A-C2A-CAA-CBA
23	c	6037	CLA	C3A-C2A-CAA-CBA
23	C	1033	CLA	CAA-CBA-CGA-O1A
23	c	6033	CLA	CAA-CBA-CGA-O1A
23	C	1026	CLA	O2A-C1-C2-C3
23	c	6026	CLA	O2A-C1-C2-C3
30	C	1056	DGD	C4A-C5A-C6A-C7A
30	c	6056	DGD	C4A-C5A-C6A-C7A

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Mol	Chain	Res	Type	Atoms
23	A	1006	CLA	C2A-CAA-CBA-CGA
23	a	6006	CLA	C2A-CAA-CBA-CGA
26	D	1050	BCR	C9-C10-C11-C12
26	K	1051	BCR	C13-C14-C15-C16
26	d	6050	BCR	C9-C10-C11-C12
26	k	6051	BCR	C13-C14-C15-C16
27	a	6063	LHG	C18-C19-C20-C21
30	h	6058	DGD	CFB-CGB-CHB-CIB
27	A	1063	LHG	C18-C19-C20-C21
29	B	1060	MGE	CAB-CBB-CCB-CDB
30	H	1058	DGD	CFB-CGB-CHB-CIB
23	A	1006	CLA	C14-C13-C15-C16
23	A	1007	CLA	C14-C13-C15-C16
23	a	6007	CLA	C14-C13-C15-C16
30	c	6055	DGD	CEB-CFB-CGB-CHB
31	E	1040	HEM	CAA-CBA-CGA-O2A
31	e	6040	HEM	CAA-CBA-CGA-O2A
30	C	1055	DGD	CEB-CFB-CGB-CHB
23	A	1006	CLA	C11-C10-C8-C7
23	A	1007	CLA	C12-C13-C15-C16
23	B	1012	CLA	C11-C12-C13-C15
23	B	1020	CLA	C11-C12-C13-C15
23	B	1023	CLA	C11-C12-C13-C15
23	C	1028	CLA	C6-C7-C8-C10
23	C	1035	CLA	C12-C13-C15-C16
23	a	6007	CLA	C12-C13-C15-C16
23	b	6012	CLA	C11-C12-C13-C15
23	b	6020	CLA	C11-C12-C13-C15
23	b	6023	CLA	C11-C12-C13-C15
23	c	6028	CLA	C6-C7-C8-C10
23	c	6035	CLA	C12-C13-C15-C16
23	A	1007	CLA	C2B-C3B-CAB-CBB
23	a	6007	CLA	C2B-C3B-CAB-CBB
23	C	1037	CLA	C2-C1-O2A-CGA
23	c	6034	CLA	C2-C1-O2A-CGA
23	c	6037	CLA	C2-C1-O2A-CGA
29	D	1062	MGE	C8A-C9A-CAA-CBA
23	B	1016	CLA	CBD-CGD-O2D-CED
23	b	6016	CLA	CBD-CGD-O2D-CED
29	d	6059	MGE	CBB-CCB-CDB-CEB
29	d	6062	MGE	C8A-C9A-CAA-CBA
29	J	1059	MGE	CBB-CCB-CDB-CEB

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Mol	Chain	Res	Type	Atoms
23	C	1026	CLA	O1A-CGA-O2A-C1
23	c	6026	CLA	O1A-CGA-O2A-C1
29	b	6060	MGE	CAA-CBA-CCA-CDA
23	H	1017	CLA	C2-C3-C5-C6
23	b	6017	CLA	C2-C3-C5-C6
23	B	1011	CLA	C8-C10-C11-C12
23	b	6011	CLA	C8-C10-C11-C12
23	B	1018	CLA	C11-C10-C8-C9
23	B	1019	CLA	C11-C10-C8-C9
23	C	1027	CLA	C11-C12-C13-C14
23	b	6018	CLA	C11-C10-C8-C9
23	b	6019	CLA	C11-C10-C8-C9
23	c	6027	CLA	C11-C12-C13-C14
29	J	1059	MGE	C3B-C4B-C5B-C6B
23	C	1027	CLA	C4B-C3B-CAB-CBB
23	C	1034	CLA	C4B-C3B-CAB-CBB
23	c	6027	CLA	C4B-C3B-CAB-CBB
29	d	6059	MGE	C3B-C4B-C5B-C6B
30	C	1056	DGD	CAA-CBA-CCA-CDA
25	D	1042	PQ9	C34-C33-C35-C36
23	C	1032	CLA	C5-C6-C7-C8
29	B	1060	MGE	O2G-C1B-C2B-C3B
29	d	6062	MGE	O2G-C1B-C2B-C3B
25	A	1043	PQ9	C20-C21-C22-C23
26	T	6046	BCR	C15-C16-C17-C18
30	c	6056	DGD	CAA-CBA-CCA-CDA
29	B	1060	MGE	CAA-CBA-CCA-CDA
23	c	6032	CLA	C5-C6-C7-C8
23	B	1020	CLA	CAA-CBA-CGA-O2A
23	C	1029	CLA	CAA-CBA-CGA-O2A
23	b	6020	CLA	CAA-CBA-CGA-O2A
23	c	6029	CLA	CAA-CBA-CGA-O2A
29	D	1062	MGE	O2G-C1B-C2B-C3B
25	d	6042	PQ9	C30-C31-C32-C33
23	A	1003	CLA	C2-C1-O2A-CGA
23	a	6003	CLA	C2-C1-O2A-CGA
23	B	1011	CLA	C12-C13-C15-C16
23	B	1022	CLA	C11-C12-C13-C15
23	C	1028	CLA	C11-C12-C13-C15
23	C	1033	CLA	C6-C7-C8-C10
23	D	1008	CLA	C11-C12-C13-C15
23	b	6011	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
23	b	6012	CLA	C11-C10-C8-C7
23	b	6022	CLA	C11-C12-C13-C15
23	c	6028	CLA	C11-C12-C13-C15
23	c	6033	CLA	C6-C7-C8-C10
23	d	6008	CLA	C11-C12-C13-C15
23	B	1014	CLA	C8-C10-C11-C12
23	b	6014	CLA	C8-C10-C11-C12
31	E	1040	HEM	CAA-CBA-CGA-O1A
31	e	6040	HEM	CAA-CBA-CGA-O1A
23	c	6034	CLA	C16-C17-C18-C20
23	b	6012	CLA	CAA-CBA-CGA-O1A
29	D	1062	MGE	C9B-CAB-CBB-CCB
29	d	6062	MGE	C9B-CAB-CBB-CCB
23	B	1023	CLA	C3A-C2A-CAA-CBA
23	b	6023	CLA	C3A-C2A-CAA-CBA
23	B	1023	CLA	C8-C10-C11-C12
23	b	6023	CLA	C8-C10-C11-C12
25	D	1042	PQ9	C35-C36-C37-C38
23	B	1018	CLA	C14-C13-C15-C16
23	C	1027	CLA	C6-C7-C8-C9
23	b	6018	CLA	C14-C13-C15-C16
23	c	6027	CLA	C6-C7-C8-C9
29	b	6060	MGE	CCB-CDB-CEB-CFB
23	B	1015	CLA	CAA-CBA-CGA-O1A
23	B	1013	CLA	C3-C5-C6-C7
23	b	6013	CLA	C3-C5-C6-C7
23	b	6015	CLA	CAA-CBA-CGA-O1A
29	B	1060	MGE	CCB-CDB-CEB-CFB
30	C	1056	DGD	C2G-C3G-O3G-C1D
30	H	1058	DGD	C2G-C3G-O3G-C1D
30	c	6056	DGD	C2G-C3G-O3G-C1D
30	h	6058	DGD	C2G-C3G-O3G-C1D
23	D	1004	CLA	C15-C16-C17-C18
23	d	6004	CLA	C15-C16-C17-C18
23	B	1021	CLA	C2-C1-O2A-CGA
23	b	6021	CLA	C2-C1-O2A-CGA
23	b	6009	CLA	CAA-CBA-CGA-O2A
25	d	6042	PQ9	C35-C36-C37-C38
23	c	6027	CLA	C15-C16-C17-C18
23	B	1009	CLA	CAA-CBA-CGA-O2A
29	J	1059	MGE	O2G-C1B-C2B-C3B
29	d	6059	MGE	O2G-C1B-C2B-C3B

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Mol	Chain	Res	Type	Atoms
27	a	6063	LHG	C35-C36-C37-C38
27	A	1063	LHG	C35-C36-C37-C38
23	B	1011	CLA	CAA-CBA-CGA-O1A
23	b	6011	CLA	CAA-CBA-CGA-O1A

There are no ring outliers.

122 monomers are involved in 4438 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	C	1033	CLA	64	0
23	c	6032	CLA	59	0
31	V	1041	HEM	10	0
23	d	6004	CLA	20	0
26	d	6050	BCR	58	0
23	C	1036	CLA	49	0
26	C	1054	BCR	26	0
23	b	6017	CLA	56	0
23	c	6034	CLA	82	0
26	b	6048	BCR	40	0
25	a	6043	PQ9	3	0
23	b	6023	CLA	77	0
24	A	1038	PHO	81	0
23	B	1011	CLA	107	0
24	A	1039	PHO	34	0
23	B	1015	CLA	31	0
23	d	6008	CLA	35	0
26	B	1045	BCR	29	0
23	C	1031	CLA	63	0
23	C	1034	CLA	87	0
23	D	1004	CLA	19	0
23	B	1012	CLA	65	0
26	b	6045	BCR	29	0
23	B	1018	CLA	23	0
23	c	6030	CLA	29	0
23	b	6014	CLA	80	0
23	b	6012	CLA	58	0
31	e	6040	HEM	11	0
23	d	6005	CLA	69	0
23	b	6021	CLA	71	0
26	b	6047	BCR	38	0
23	C	1037	CLA	25	0
26	k	6052	BCR	43	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	b	6018	CLA	19	0
26	A	1044	BCR	26	0
23	B	1010	CLA	49	0
23	B	1009	CLA	49	0
23	B	1020	CLA	69	0
26	z	6053	BCR	40	0
23	D	1008	CLA	33	0
26	H	1049	BCR	54	0
30	c	6055	DGD	34	0
30	H	1058	DGD	32	0
23	c	6029	CLA	46	0
23	a	6007	CLA	19	0
23	c	6033	CLA	65	0
23	c	6031	CLA	69	0
23	A	1003	CLA	63	0
23	b	6013	CLA	85	0
23	A	1006	CLA	93	0
29	D	1062	MGE	24	0
26	h	6049	BCR	47	0
23	B	1022	CLA	70	0
23	c	6037	CLA	26	0
29	d	6059	MGE	33	0
30	h	6058	DGD	35	0
26	t	1046	BCR	24	0
23	C	1028	CLA	34	0
23	c	6035	CLA	32	0
29	b	6060	MGE	52	0
23	D	1005	CLA	69	0
26	K	1051	BCR	43	0
23	A	1007	CLA	20	0
23	b	6022	CLA	71	0
23	H	1017	CLA	57	0
31	v	6041	HEM	11	0
26	c	6054	BCR	22	0
23	B	1024	CLA	38	0
30	c	6056	DGD	53	0
23	C	1025	CLA	54	0
23	C	1026	CLA	33	0
30	C	1055	DGD	34	0
23	C	1030	CLA	29	0
23	b	6024	CLA	38	0
23	B	1013	CLA	84	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
26	D	1050	BCR	62	0
23	b	6019	CLA	81	0
25	D	1042	PQ9	30	0
26	K	1052	BCR	47	0
25	d	6042	PQ9	27	0
26	B	1047	BCR	39	0
23	C	1032	CLA	61	0
23	a	6003	CLA	72	0
23	C	1035	CLA	20	0
31	E	1040	HEM	10	0
29	L	1061	MGE	33	0
23	B	1023	CLA	80	0
23	c	6027	CLA	46	0
30	C	1056	DGD	57	0
23	b	6016	CLA	58	0
29	B	1060	MGE	46	0
23	c	6025	CLA	53	0
23	b	6020	CLA	71	0
23	c	6028	CLA	35	0
23	c	6026	CLA	31	0
26	k	6051	BCR	48	0
30	C	1057	DGD	61	0
30	c	6057	DGD	52	0
24	d	6038	PHO	75	0
23	a	6006	CLA	78	0
26	B	1048	BCR	38	0
23	C	1029	CLA	46	0
23	c	6036	CLA	51	0
29	d	6061	MGE	29	0
29	d	6062	MGE	35	0
26	T	6046	BCR	33	0
27	a	6063	LHG	53	0
29	J	1059	MGE	32	0
26	a	6044	BCR	25	0
26	Z	1053	BCR	41	0
23	b	6010	CLA	52	0
24	a	6039	PHO	33	0
23	B	1019	CLA	85	0
23	B	1016	CLA	62	0
25	A	1043	PQ9	6	0
23	b	6011	CLA	109	0
23	b	6015	CLA	29	0

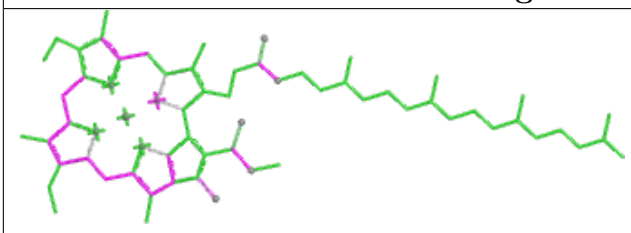
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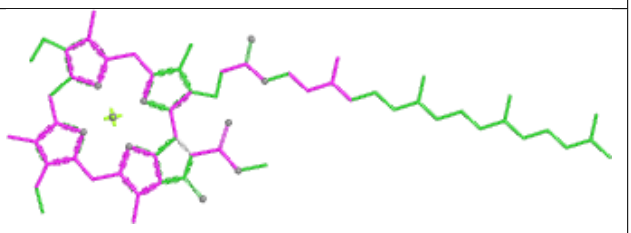
Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	B	1014	CLA	84	0
23	b	6009	CLA	50	0
23	C	1027	CLA	48	0
23	B	1021	CLA	75	0
27	A	1063	LHG	60	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

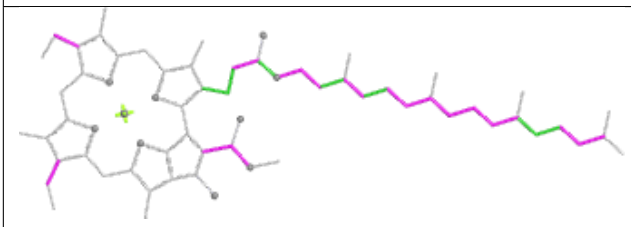
Ligand CLA C 1033



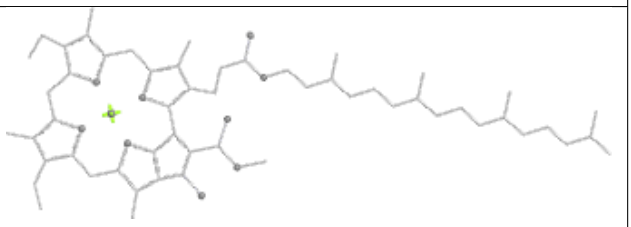
Bond lengths



Bond angles

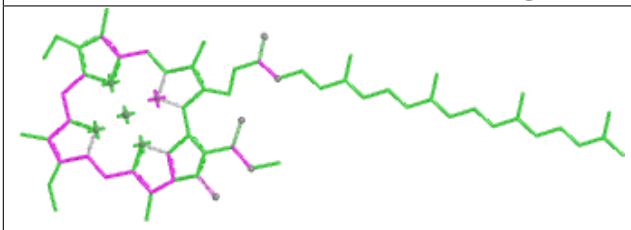


Torsions

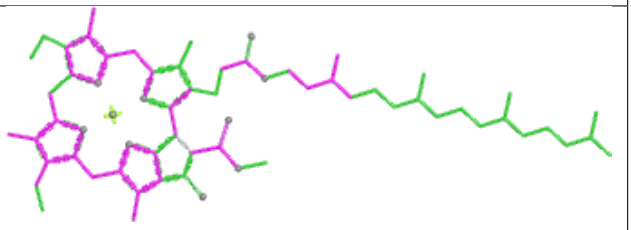


Rings

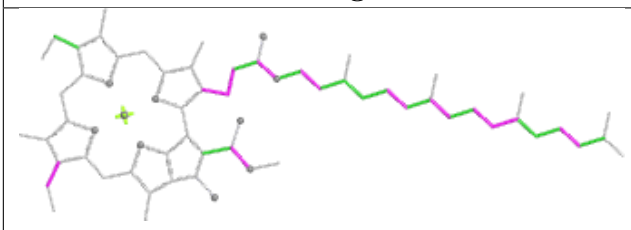
Ligand CLA c 6032



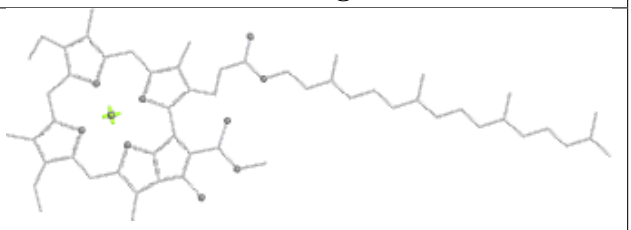
Bond lengths



Bond angles

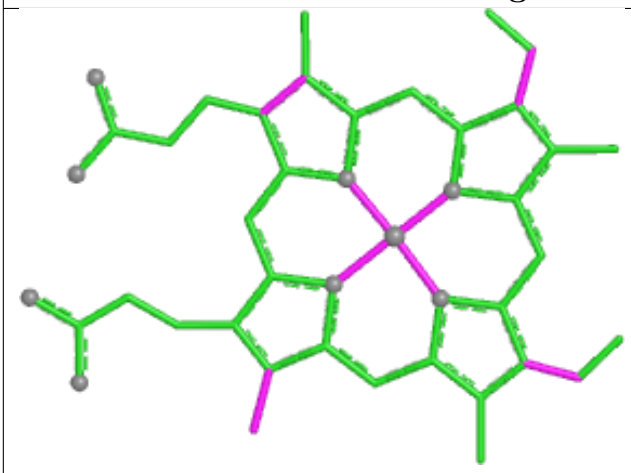


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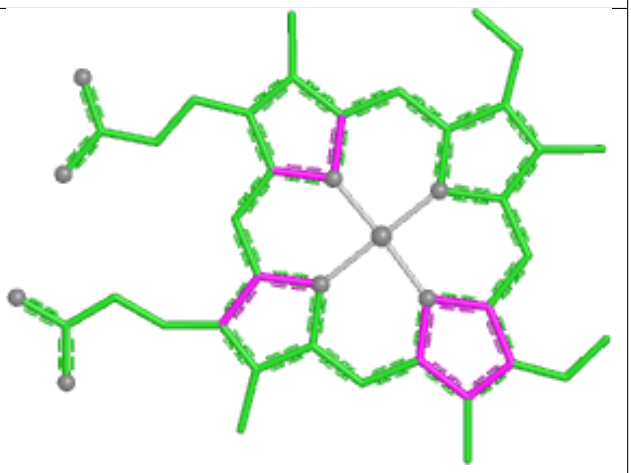


Rings

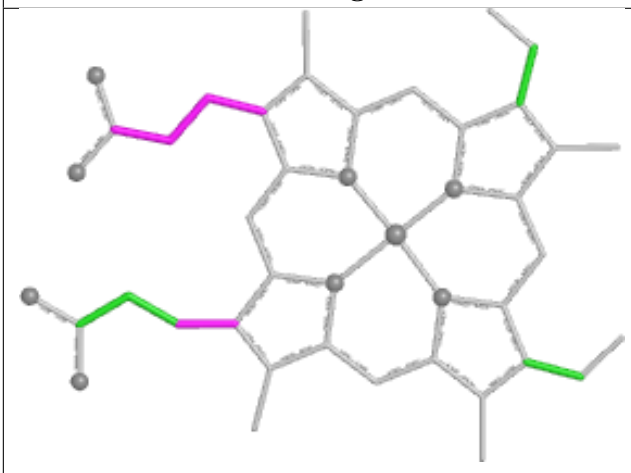
Ligand HEM V 1041



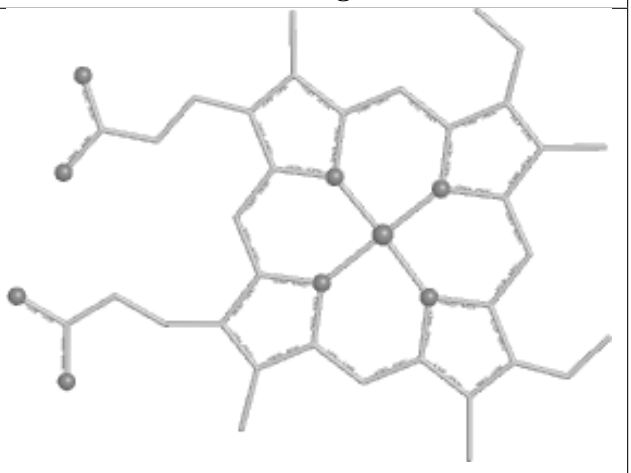
Bond lengths



Bond angles

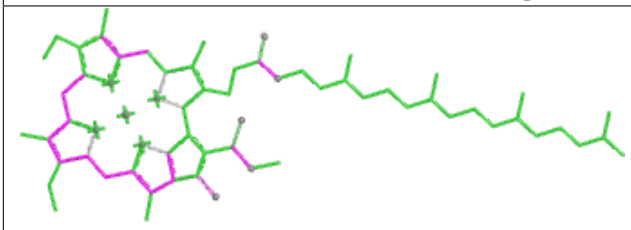


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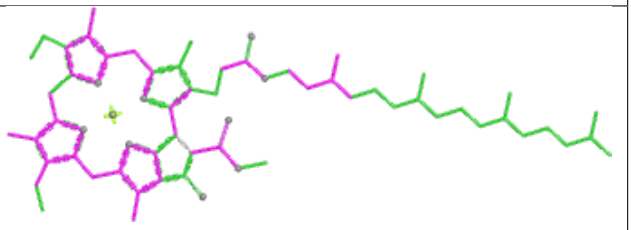


Rings

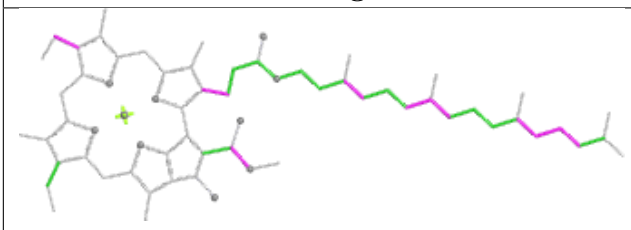
Ligand CLA d 6004



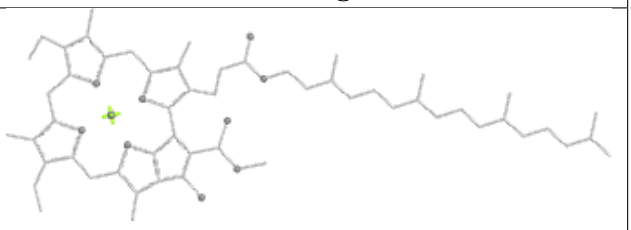
Bond lengths



Bond angles

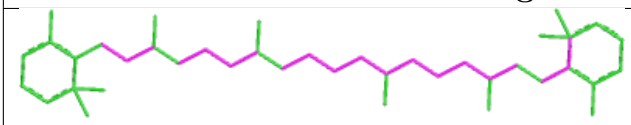


Torsions



Rings

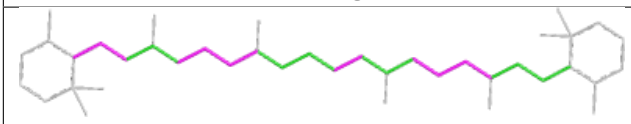
Ligand BCR d 6050



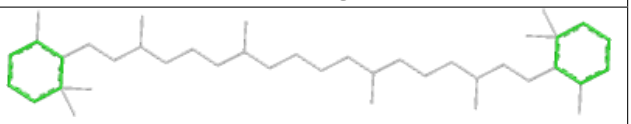
Bond lengths



Bond angles

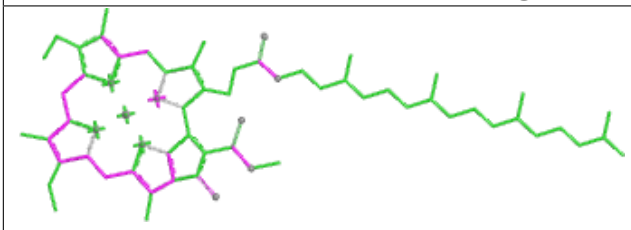


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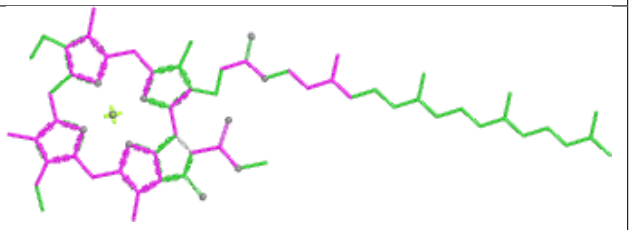


Rings

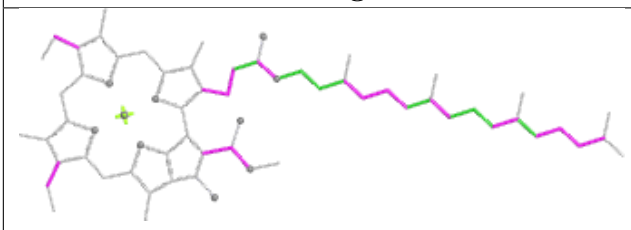
Ligand CLA C 1036



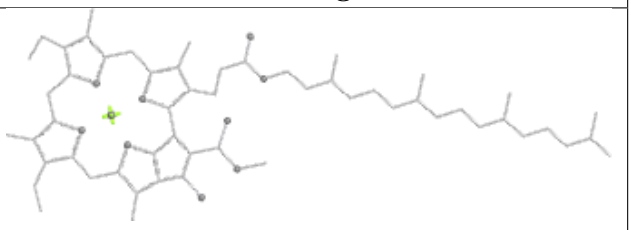
Bond lengths



Bond angles



Torsions

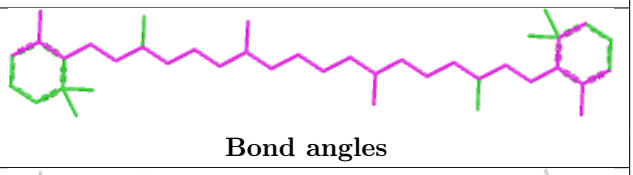


Rings

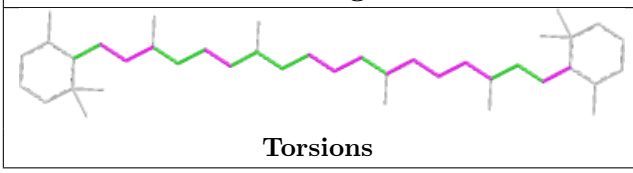
Ligand BCR C 1054



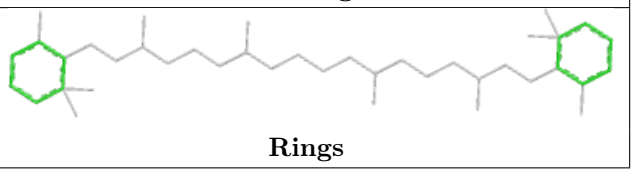
Bond lengths



Bond angles

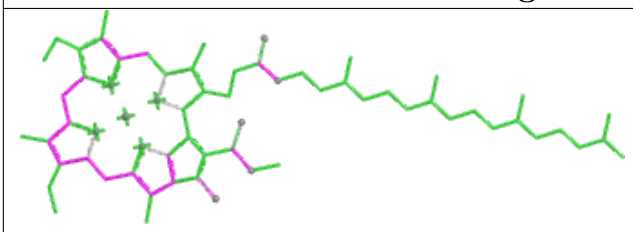


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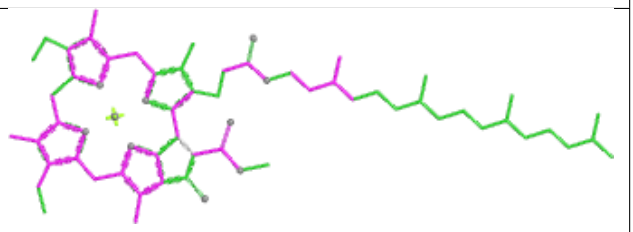


Rings

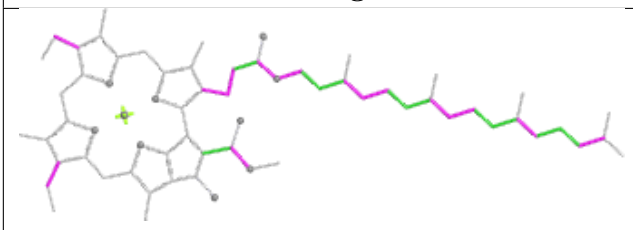
Ligand CLA b 6017



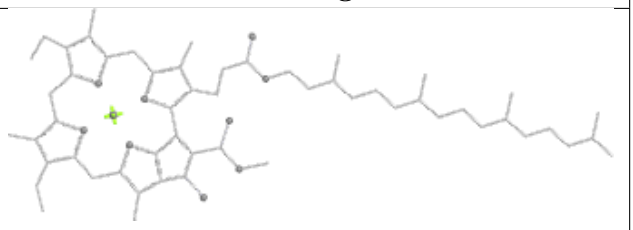
Bond lengths



Bond angles

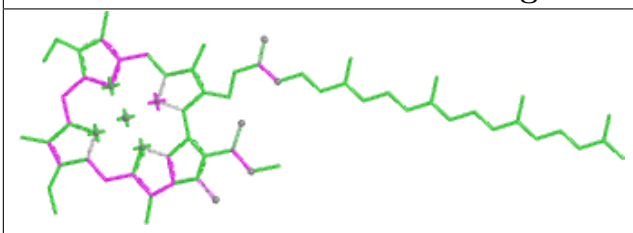


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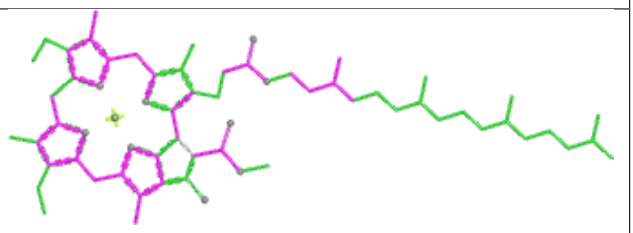


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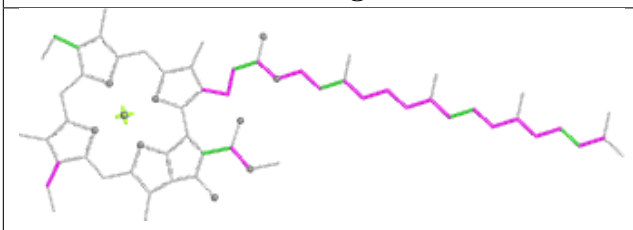
Ligand CLA c 6034



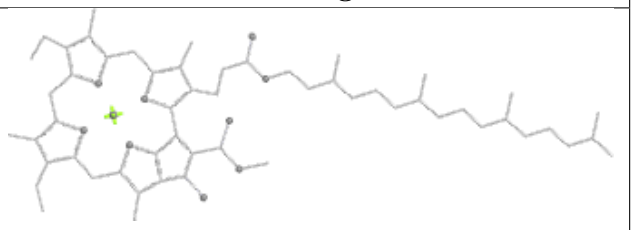
Bond lengths



Bond angles



Torsions

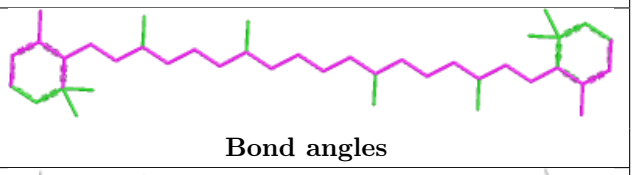


Rings

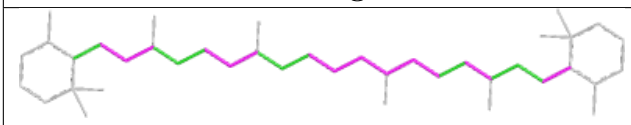
Ligand BCR b 6048



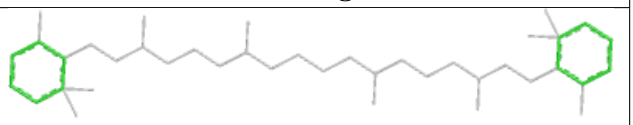
Bond lengths



Bond angles

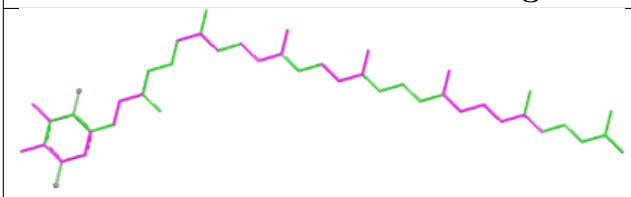


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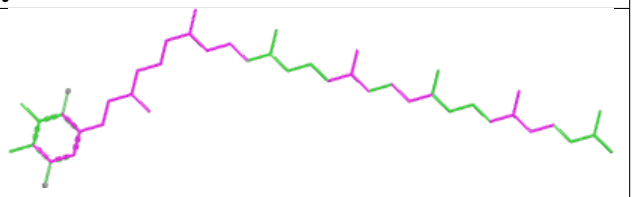


Rings

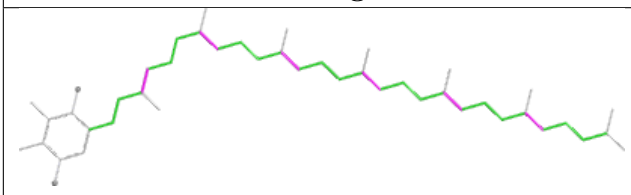
Ligand PQ9 a 6043



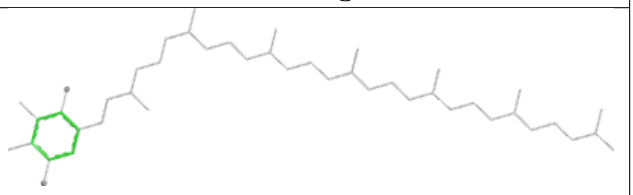
Bond lengths



Bond angles

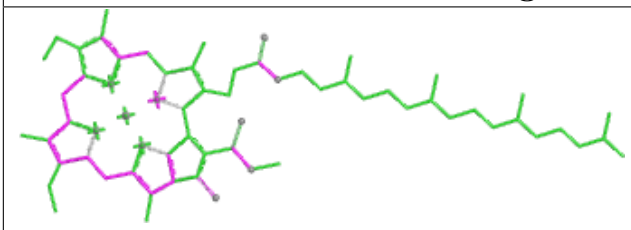


Torsions

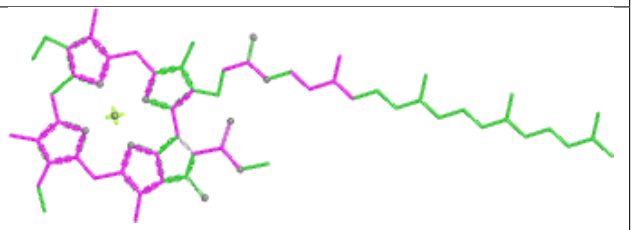


Rings

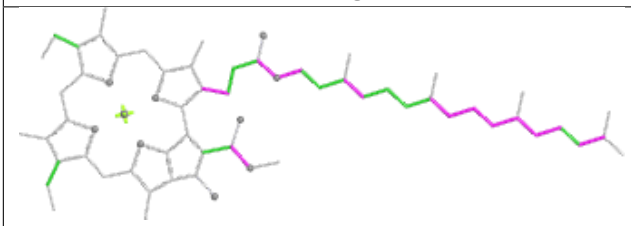
Ligand CLA b 6023



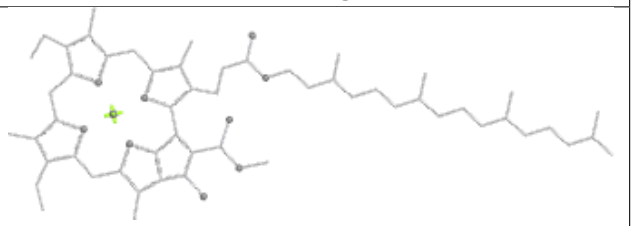
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Bond angles

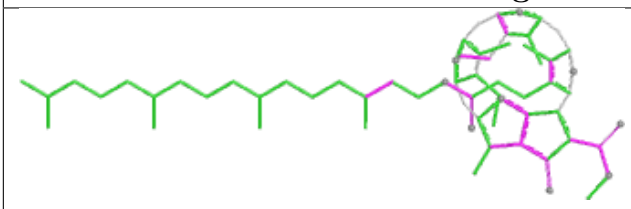


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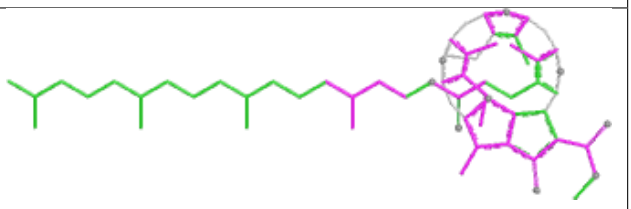


Rings

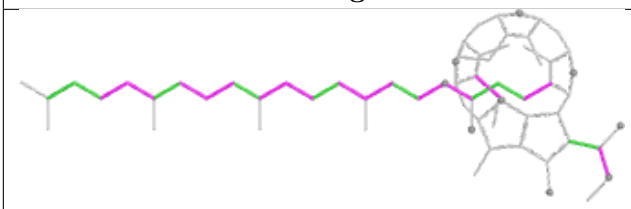
Ligand PHO A 1038



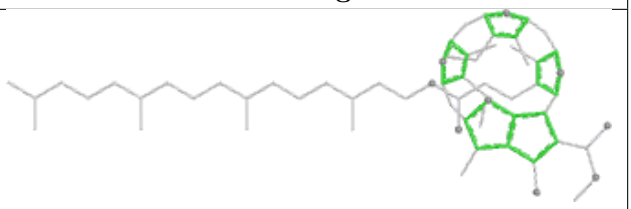
Bond lengths



Bond angles

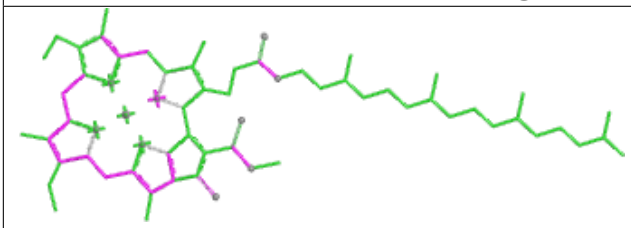


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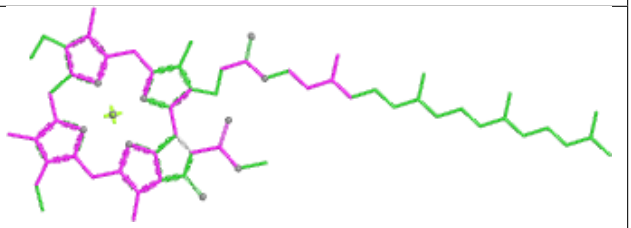


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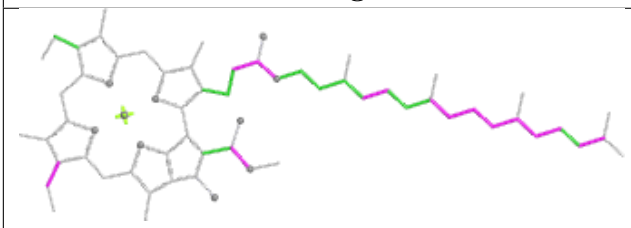
Ligand CLA B 1011



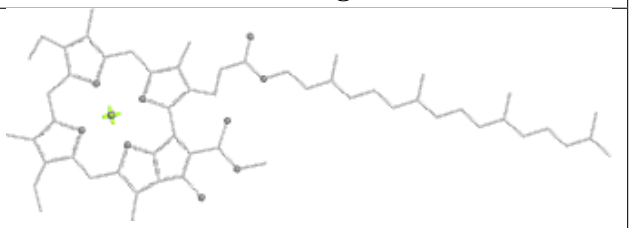
Bond lengths



Bond angles

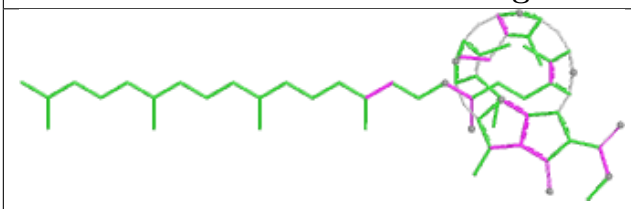


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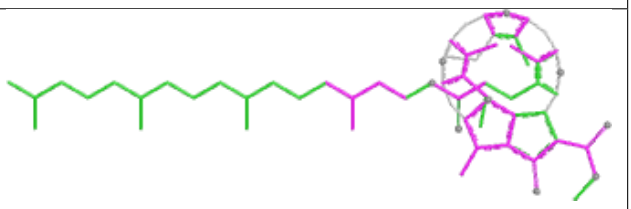


Rings

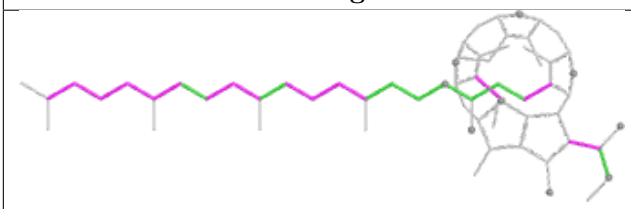
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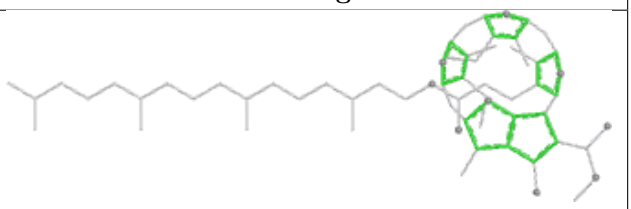
Bond lengths



Bond angles

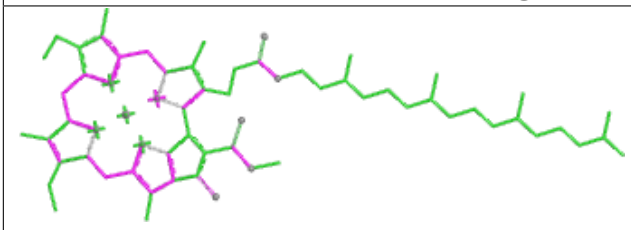


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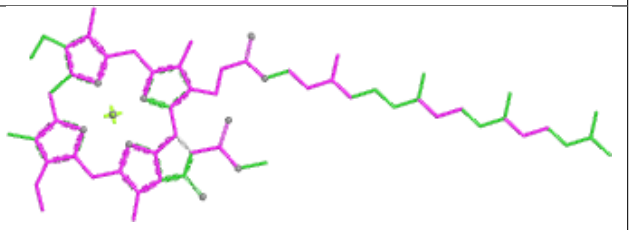


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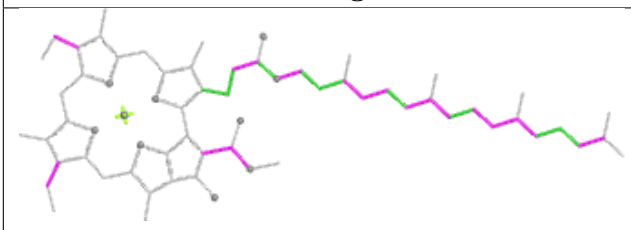
Ligand CLA B 1015



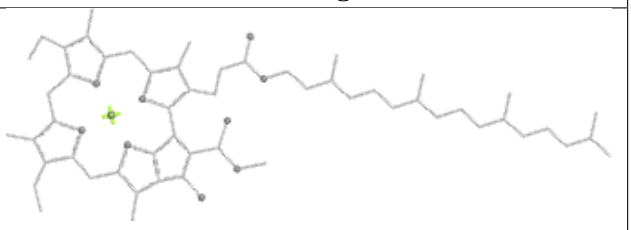
Bond lengths



Bond angles

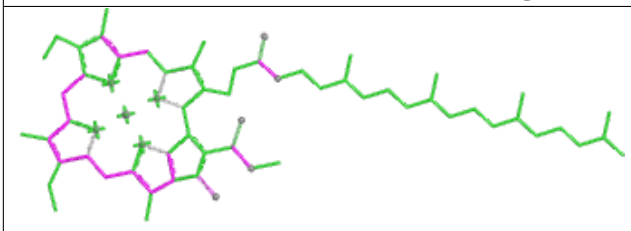


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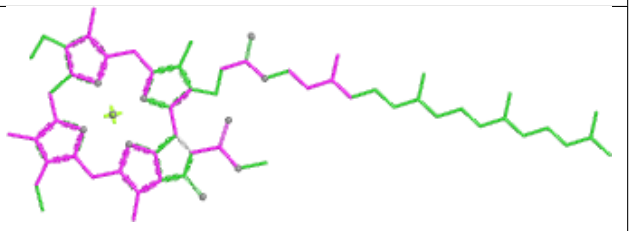


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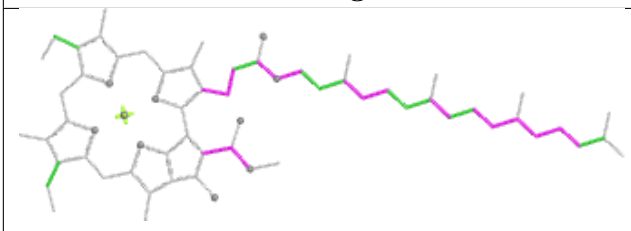
Ligand CLA d 6008



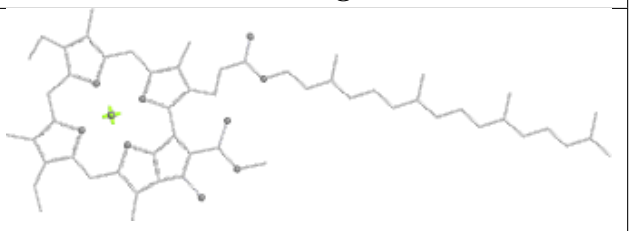
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Bond angles

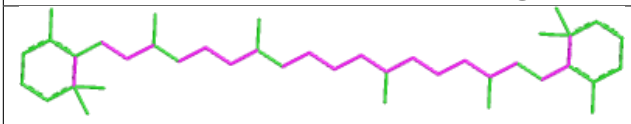


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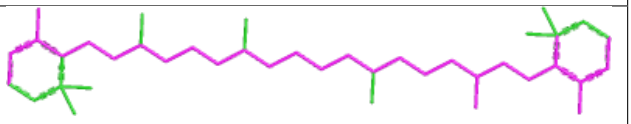


Rings

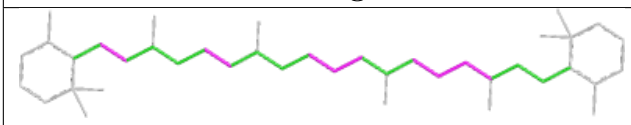
Ligand BCR B 1045



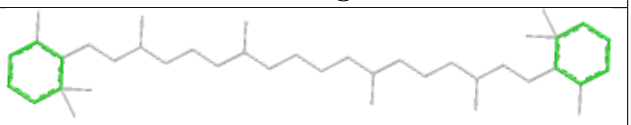
Bond lengths



Bond angles

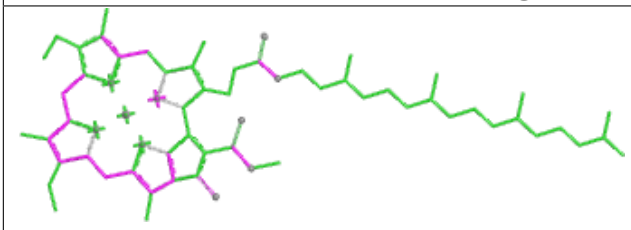


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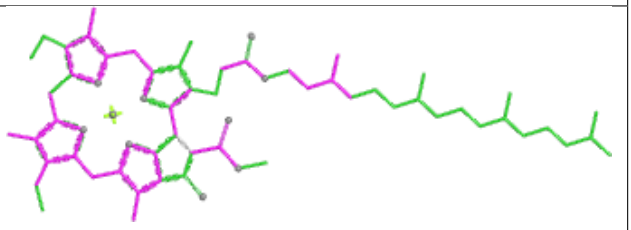


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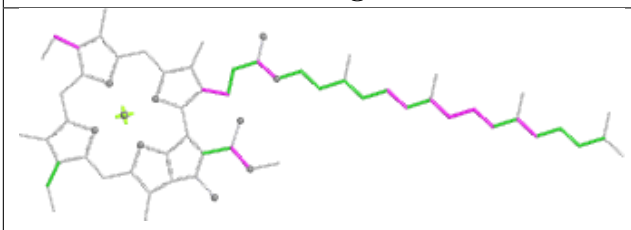
Ligand CLA C 1031



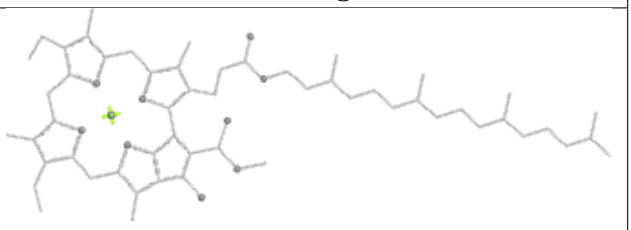
Bond lengths



Bond angles

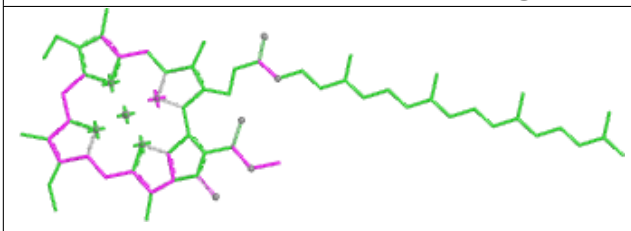


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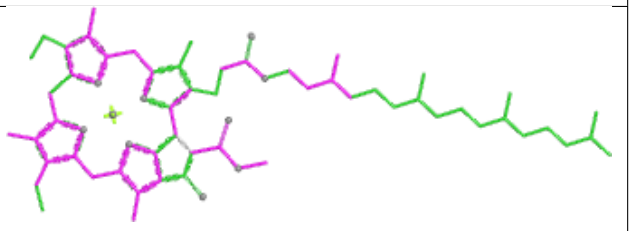


Rings

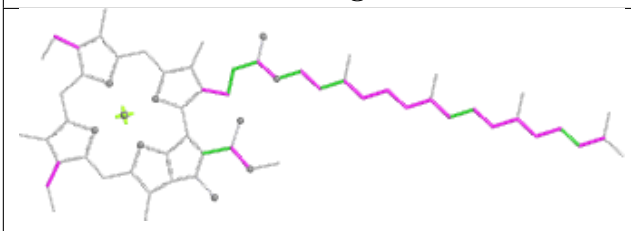
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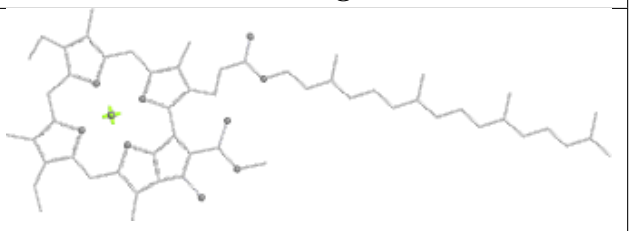
Bond lengths



Bond angles

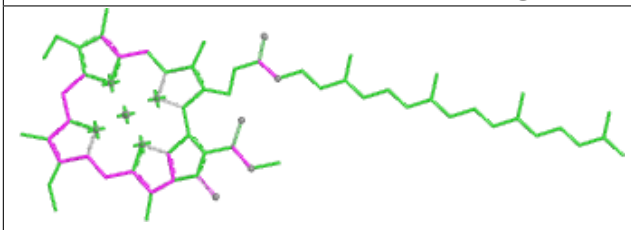


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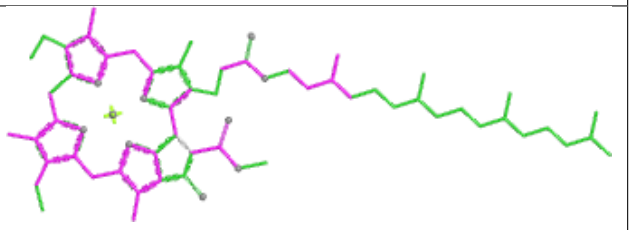


Rings

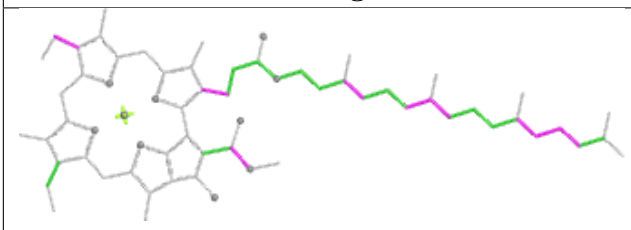
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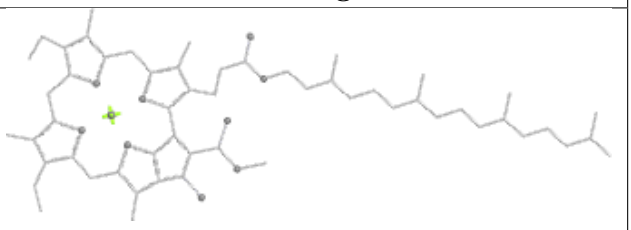
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Bond angles

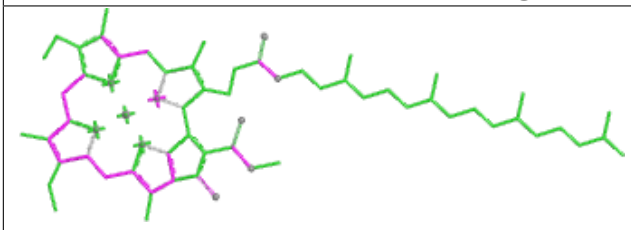


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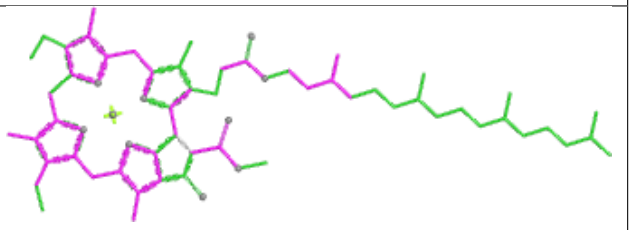


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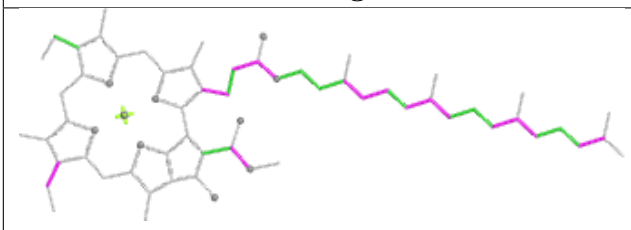
Ligand CLA B 1012



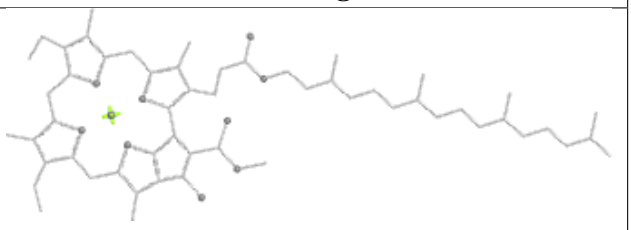
Bond lengths



Bond angles

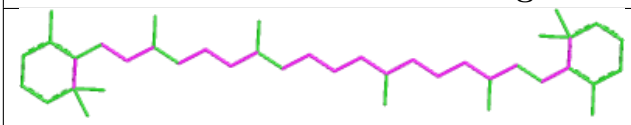


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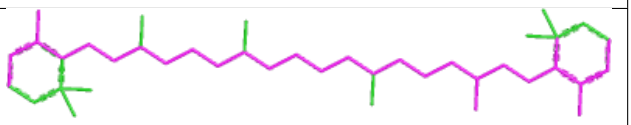


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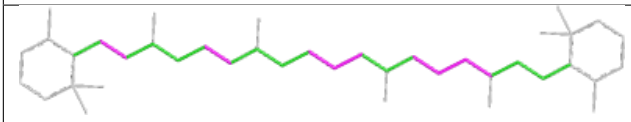
Ligand BCR b 6045



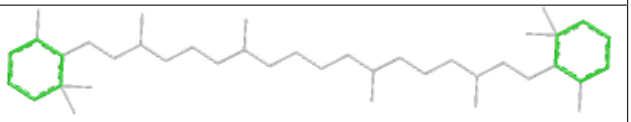
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Bond angles

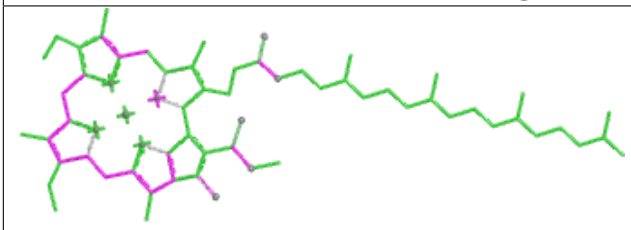


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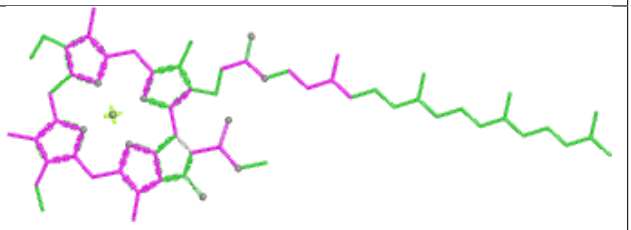


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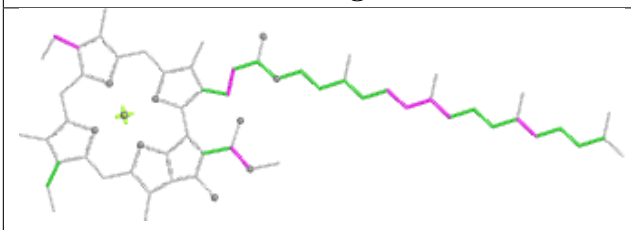
Ligand CLA B 1018



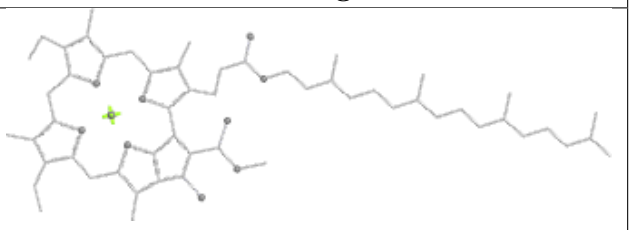
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Bond angles

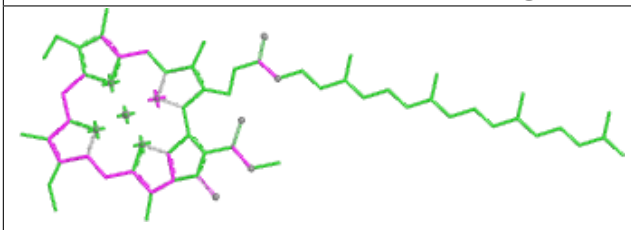


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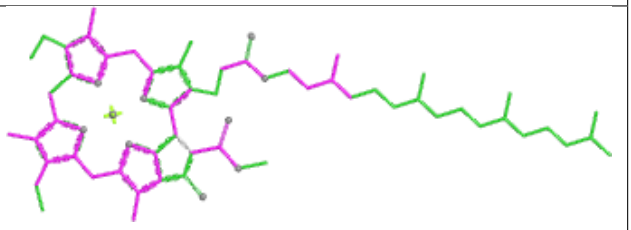


Rings

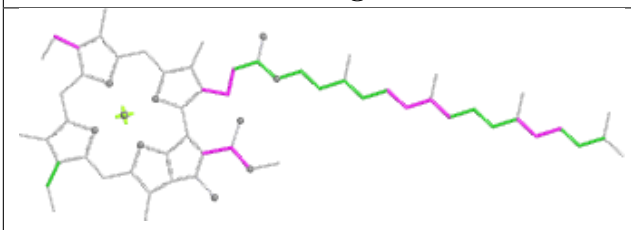
Ligand CLA c 6030



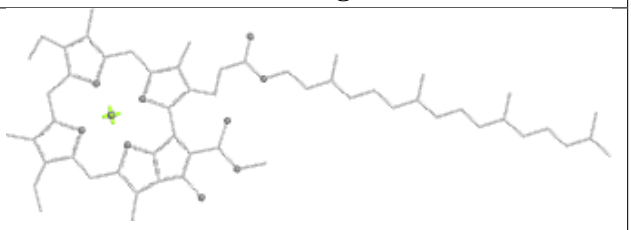
Bond lengths



Bond angles

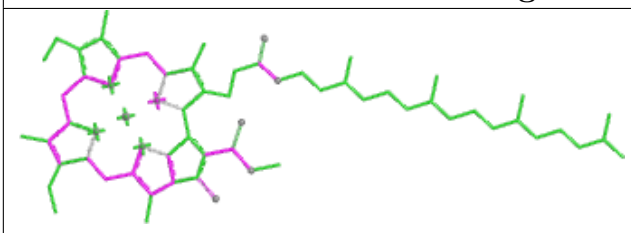


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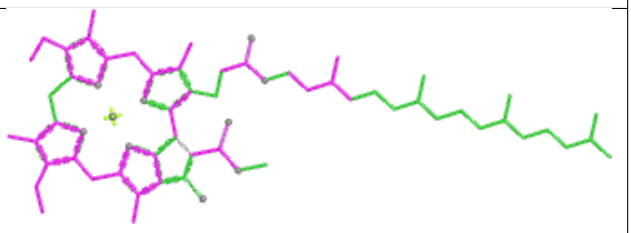


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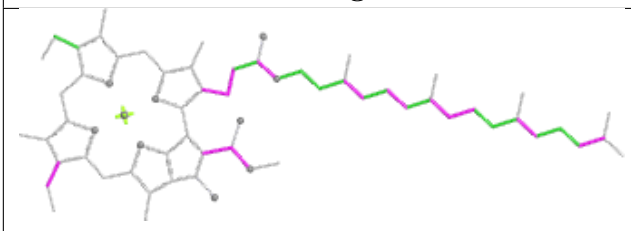
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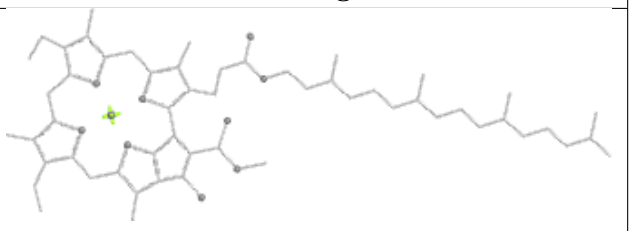
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Bond angles

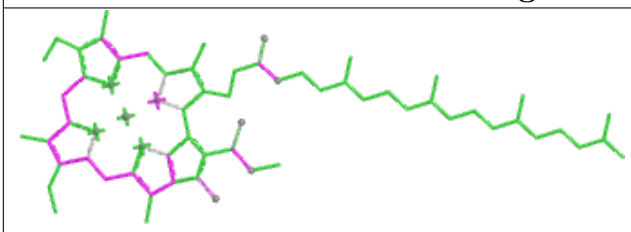


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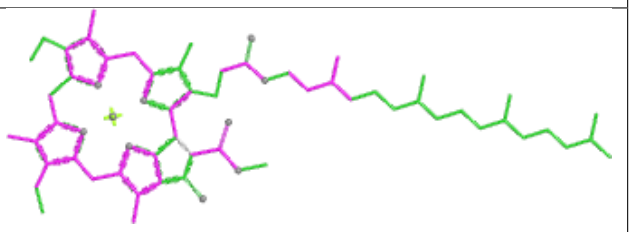


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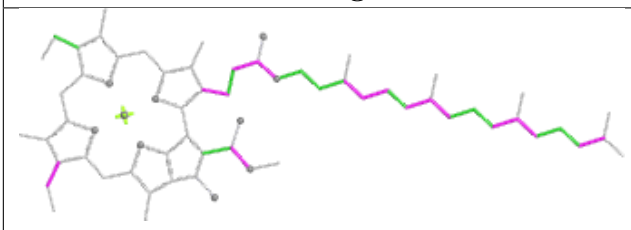
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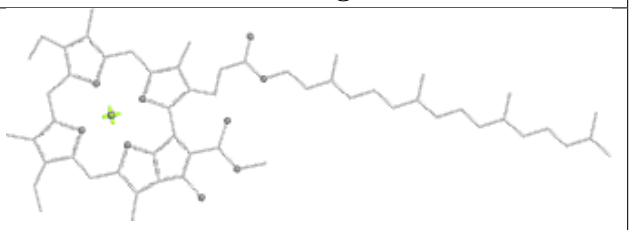
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Bond angles

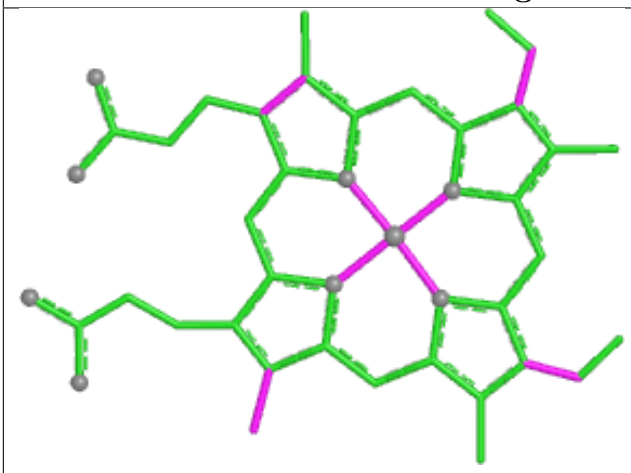


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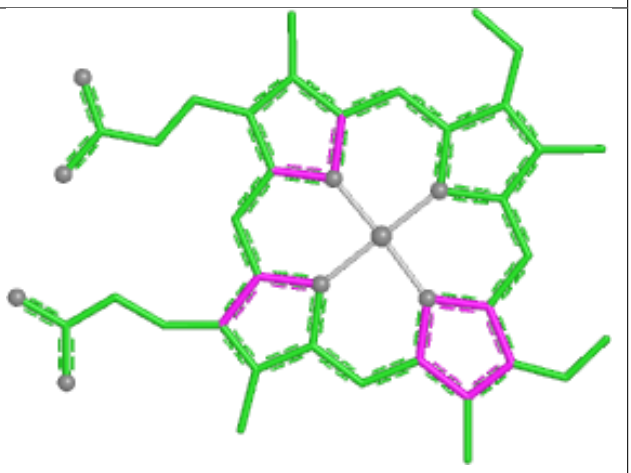


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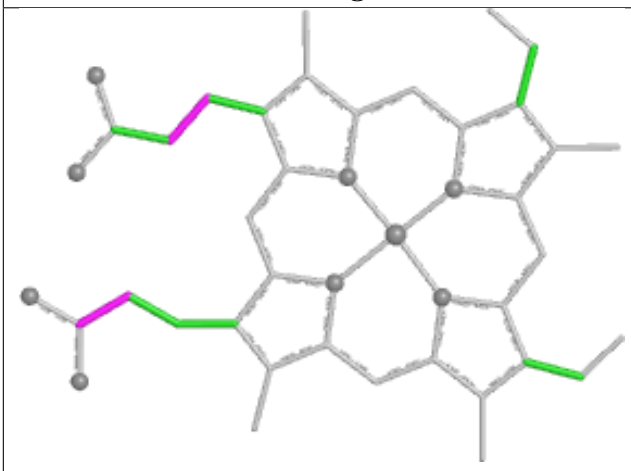
Ligand HEM e 6040



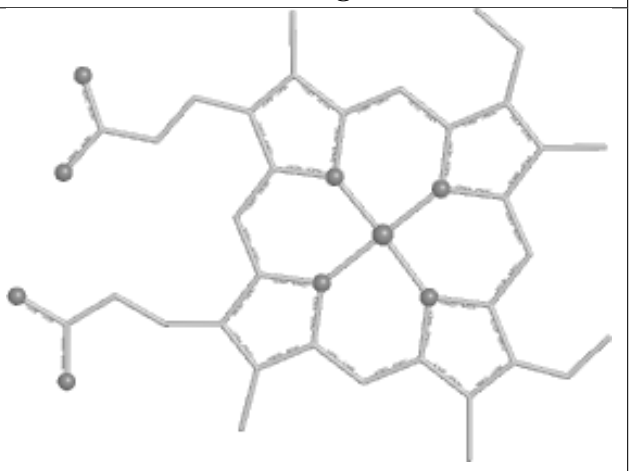
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Bond angles

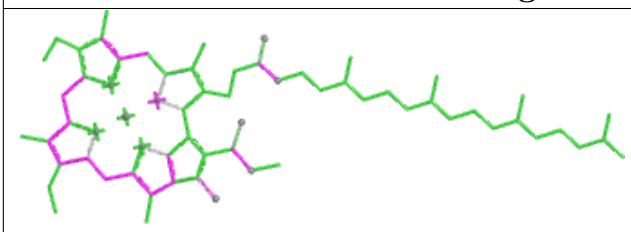


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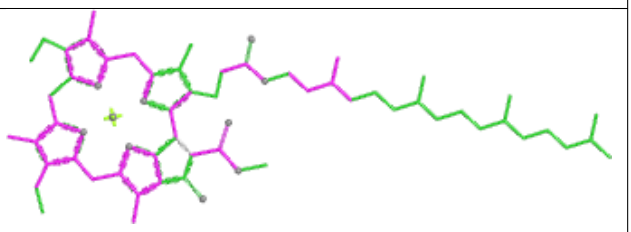


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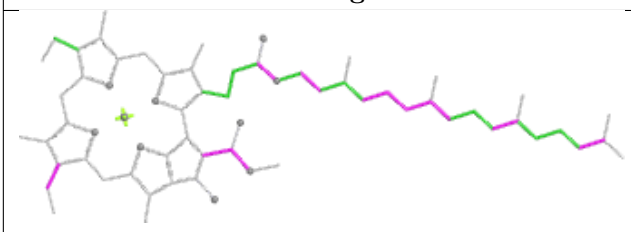
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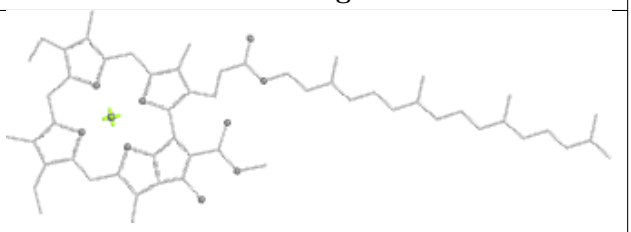
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Bond angles

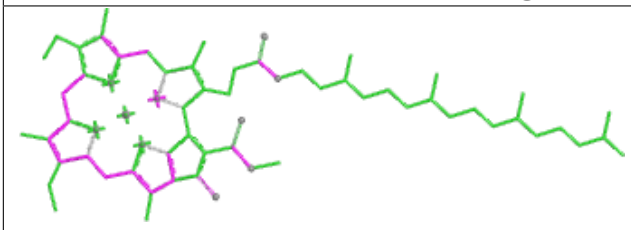


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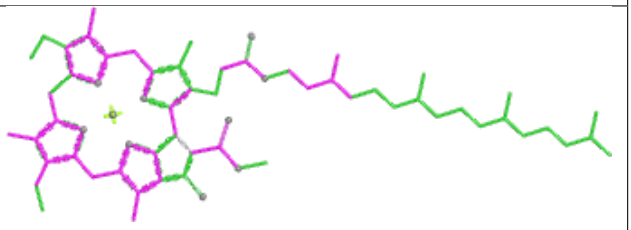


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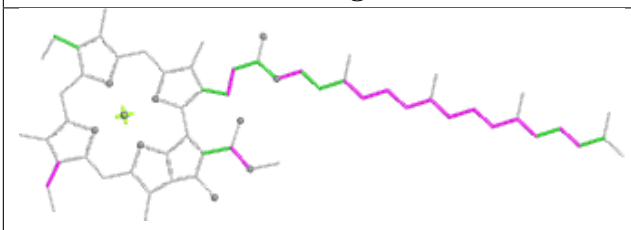
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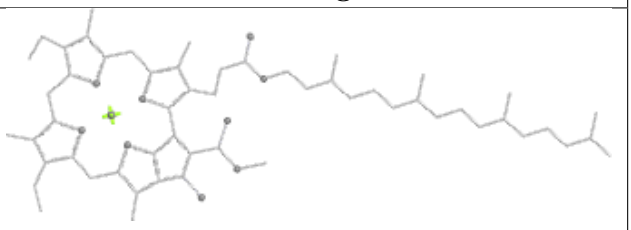
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Bond angles

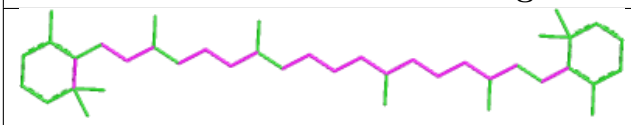


Torsions



Rings

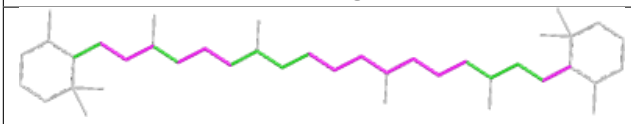
Ligand BCR b 6047



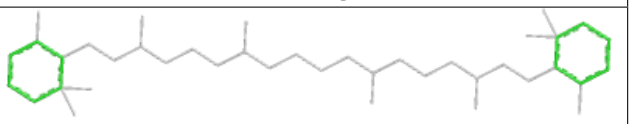
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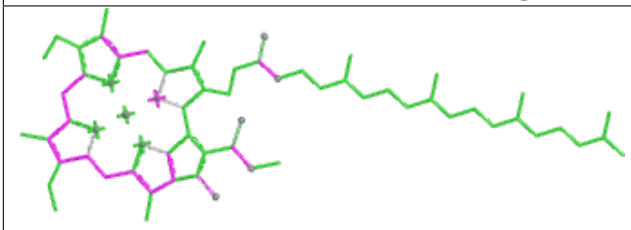


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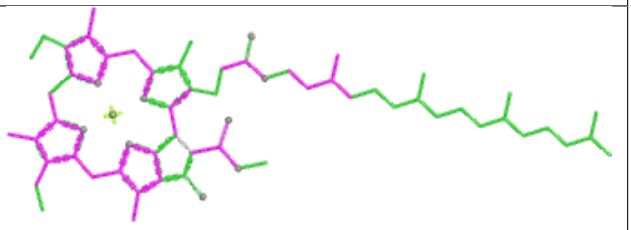


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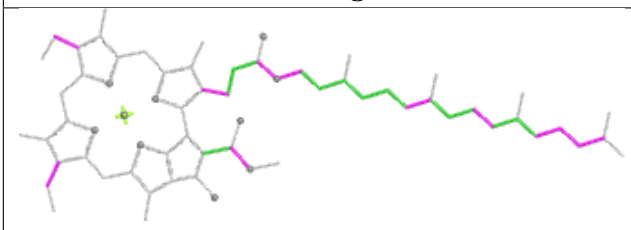
Ligand CLA C 1037



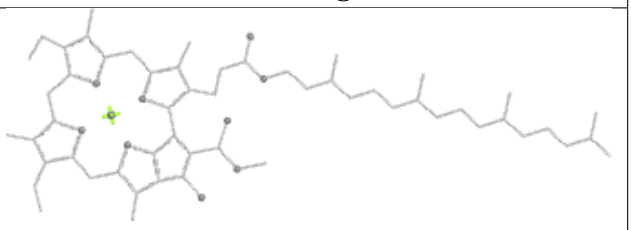
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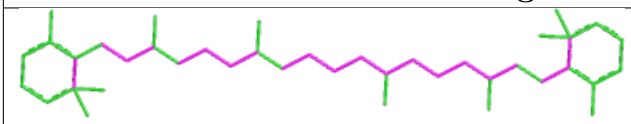


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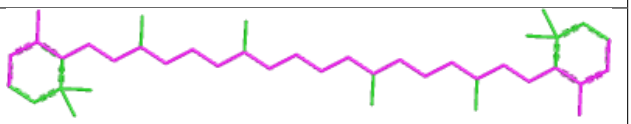


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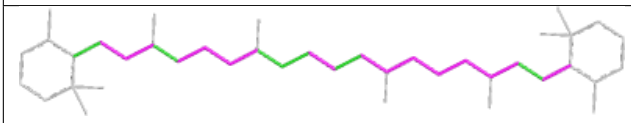
Ligand BCR k 6052



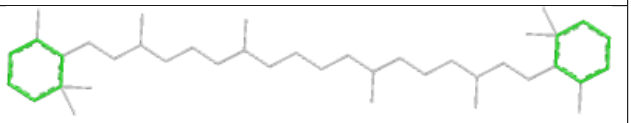
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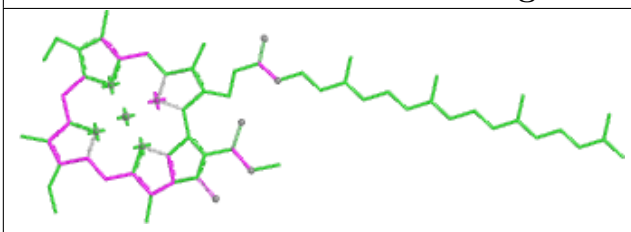


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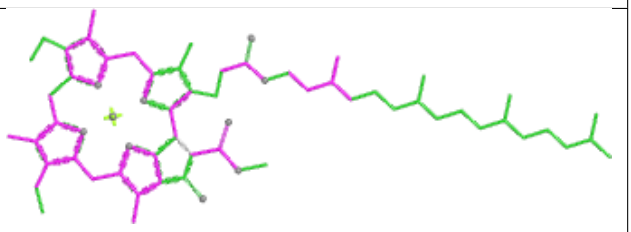


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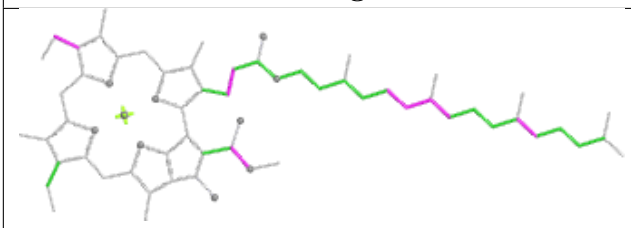
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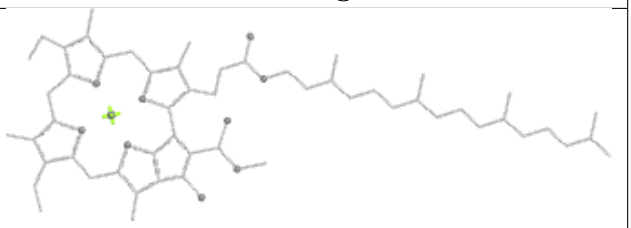
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Bond angles

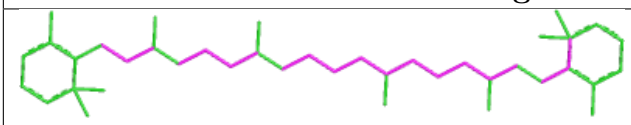


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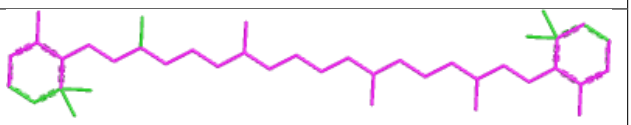


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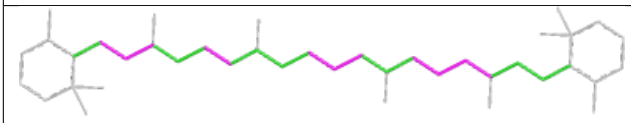
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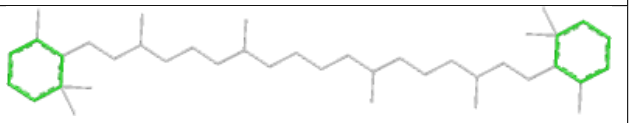
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Bond angles

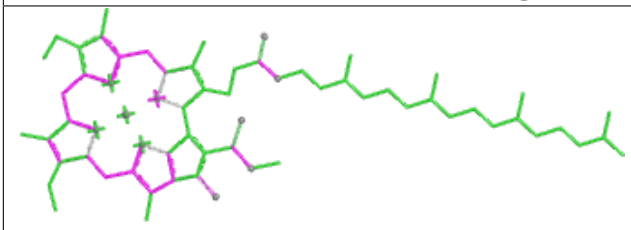


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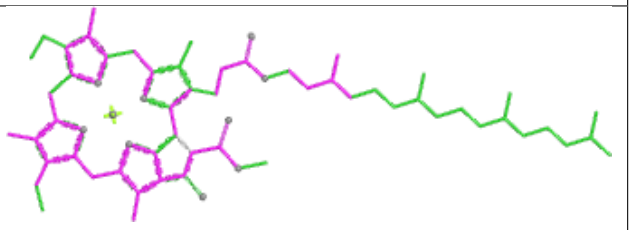


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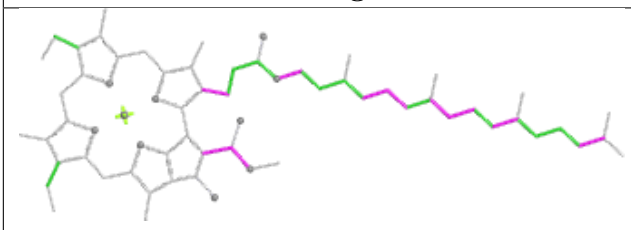
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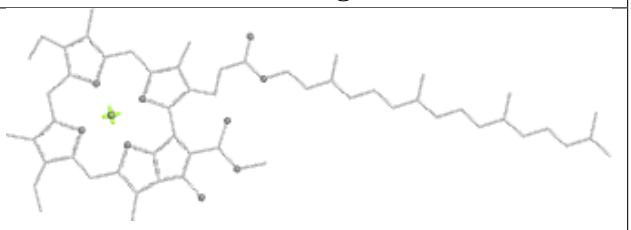
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Bond angles

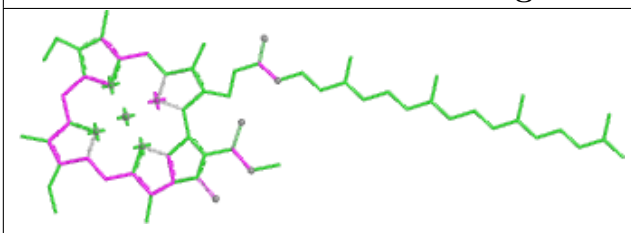


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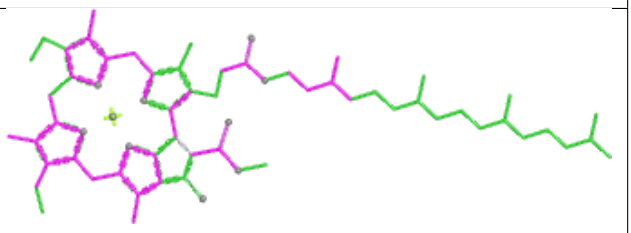


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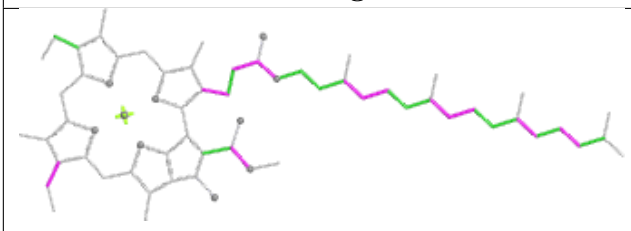
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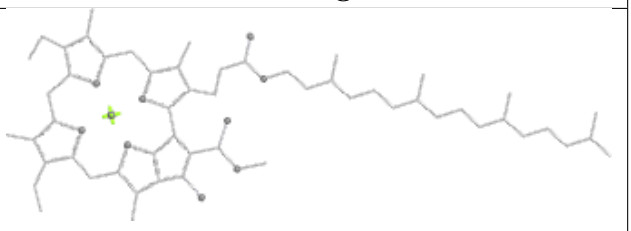
Bond lengths



Bond angles

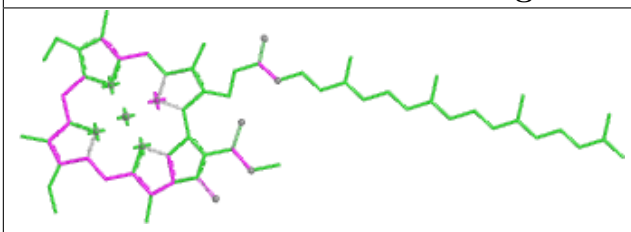


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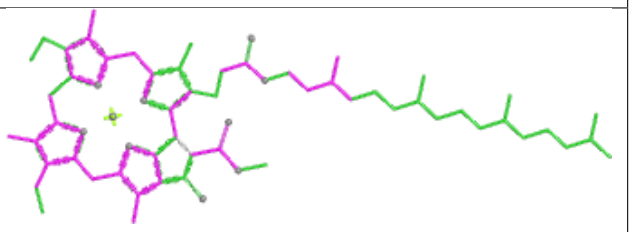


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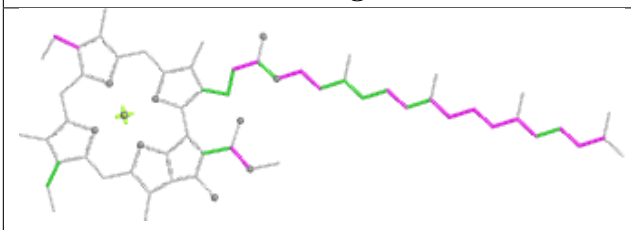
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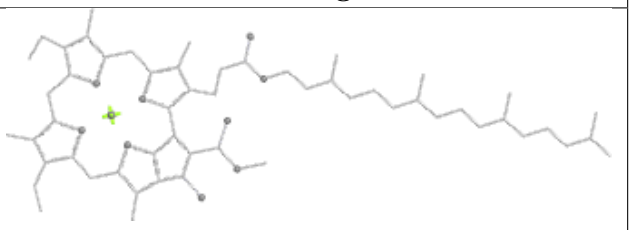
Bond lengths



Bond angles



Torsions

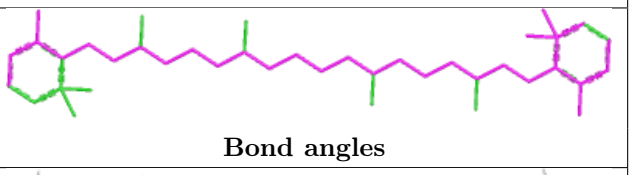


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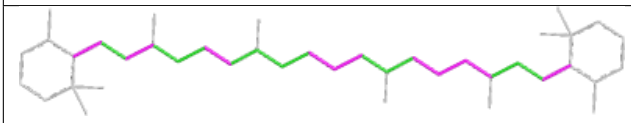
Ligand BCR z 6053



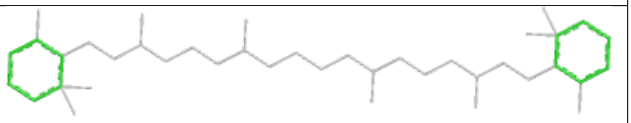
Bond lengths



Bond angles

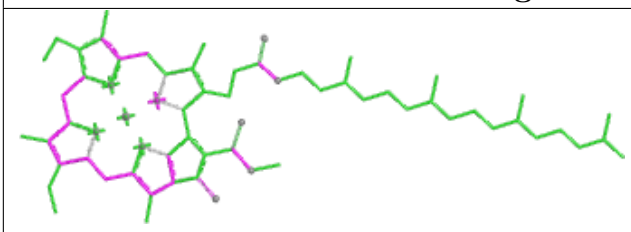


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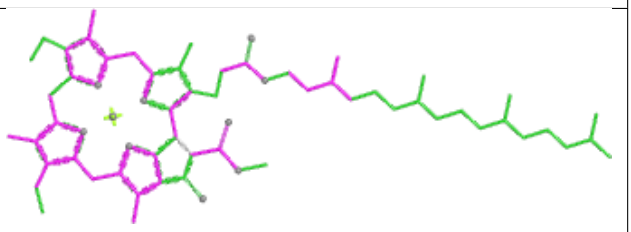


Rings

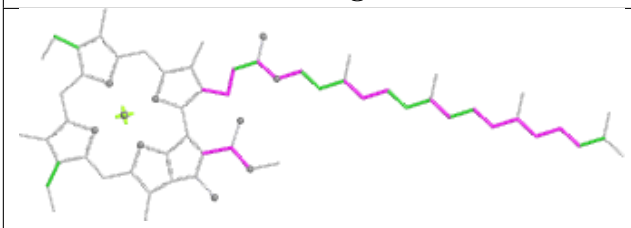
Ligand CLA D 1008



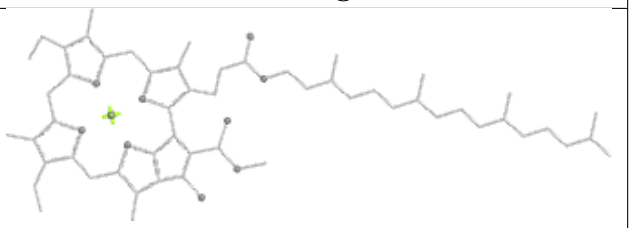
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Bond angles

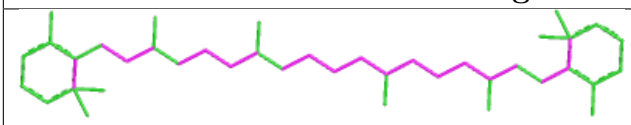


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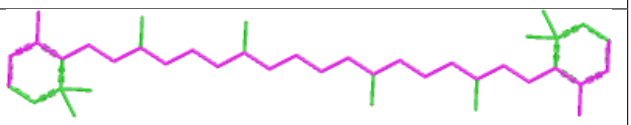


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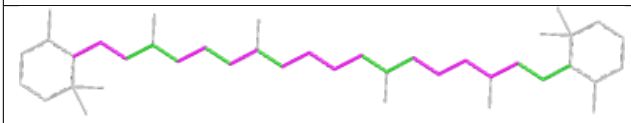
Ligand BCR H 1049



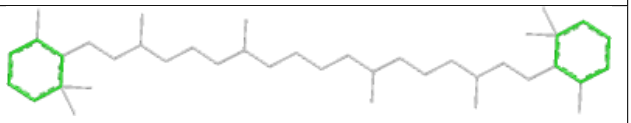
Bond lengths



Bond angles

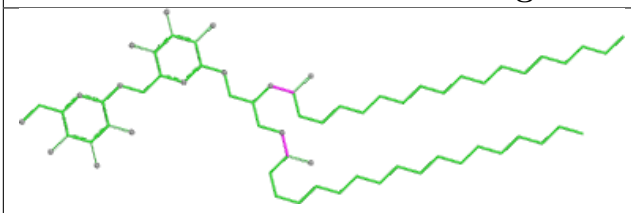


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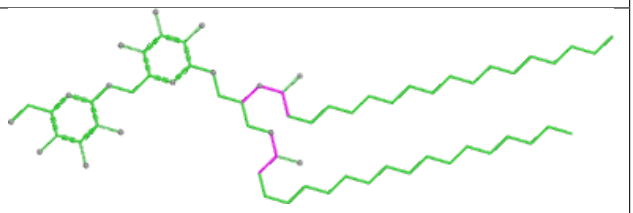


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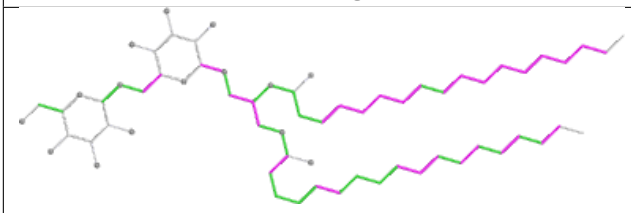
Ligand DGD c 6055



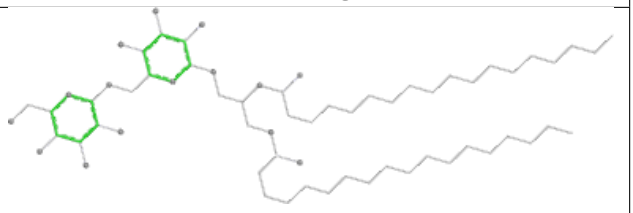
Bond lengths



Bond angles

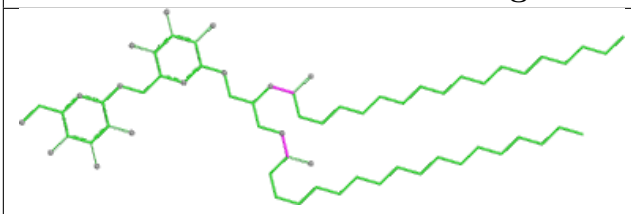


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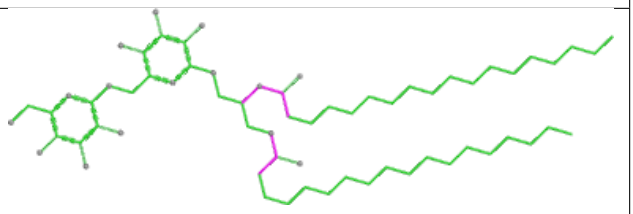


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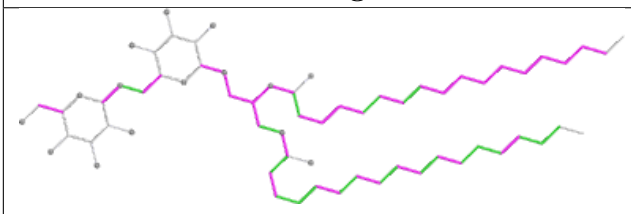
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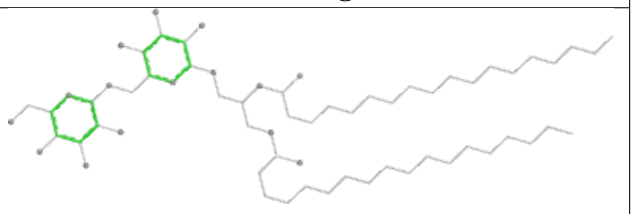
Bond lengths



Bond angles

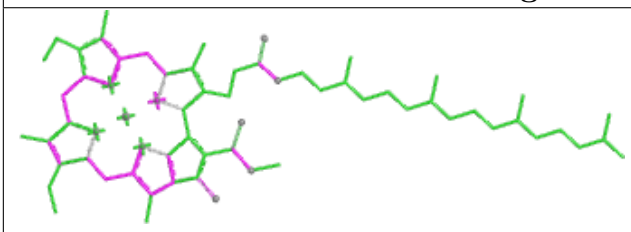


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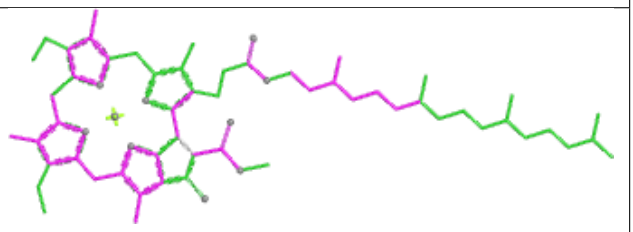


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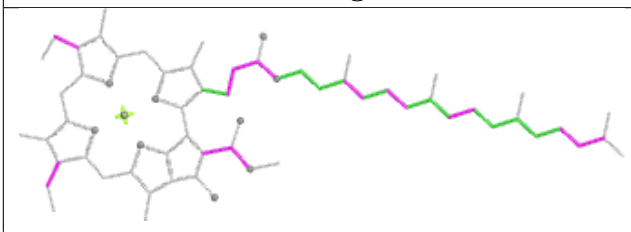
Ligand CLA c 6029



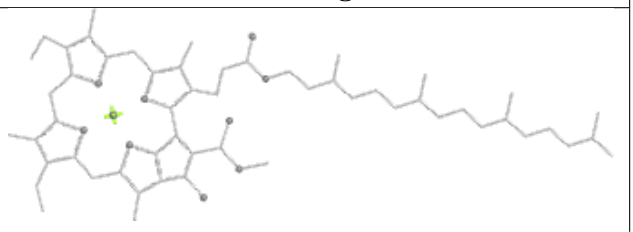
Bond lengths



Bond angles

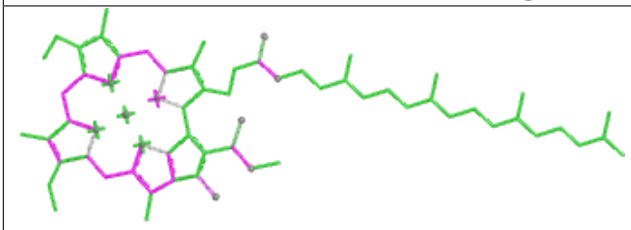


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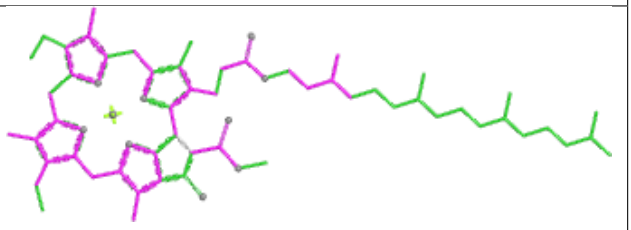


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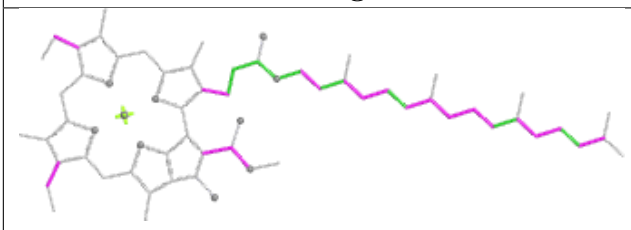
Ligand CLA a 6007



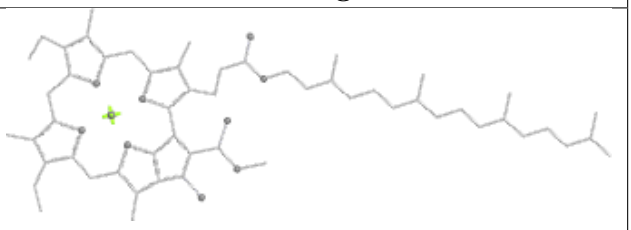
Bond lengths



Bond angles

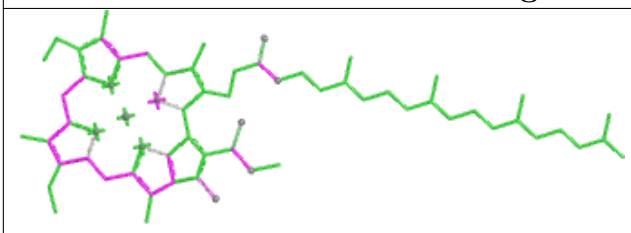


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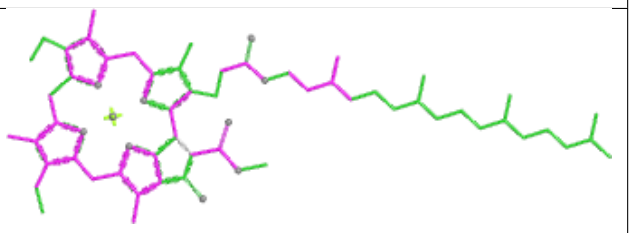


Rings

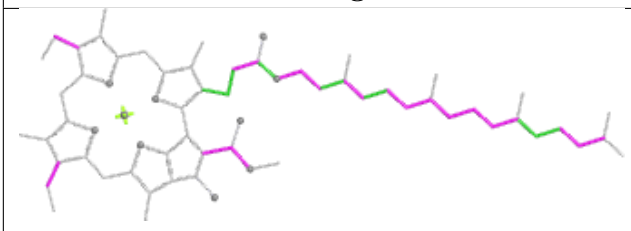
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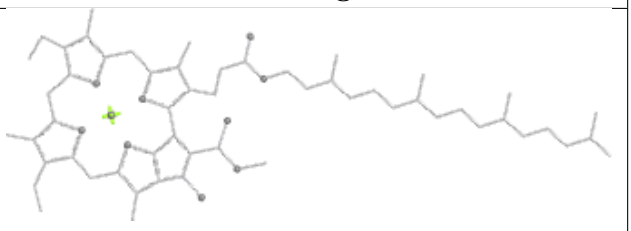
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Bond angles

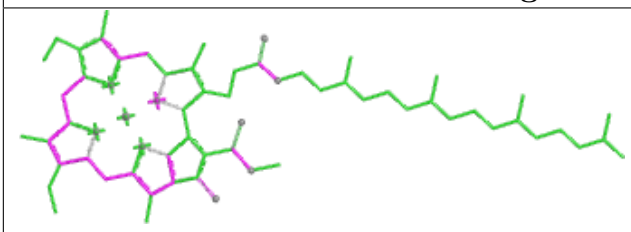


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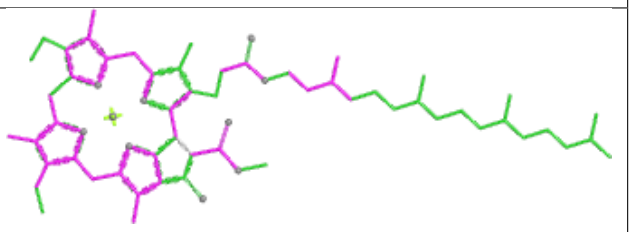


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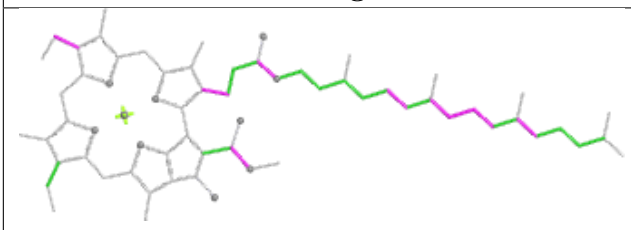
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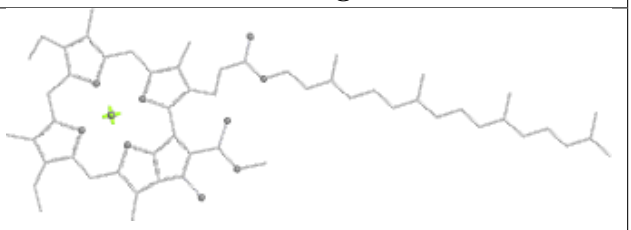
Bond lengths



Bond angles

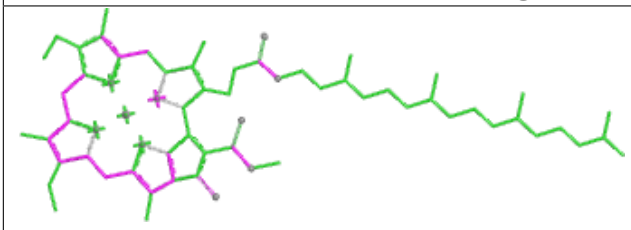


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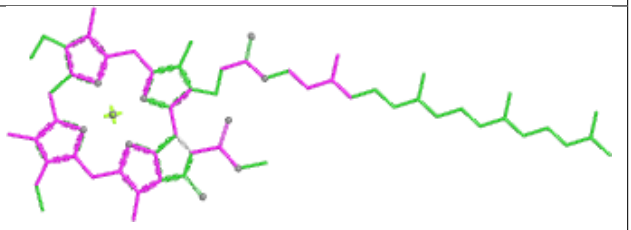


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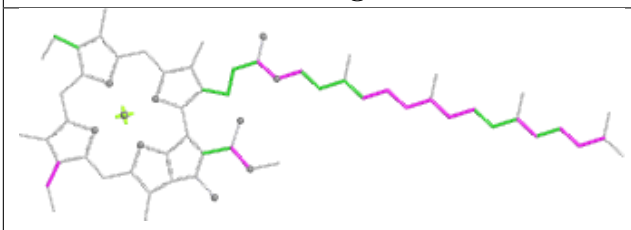
Ligand CLA A 1003



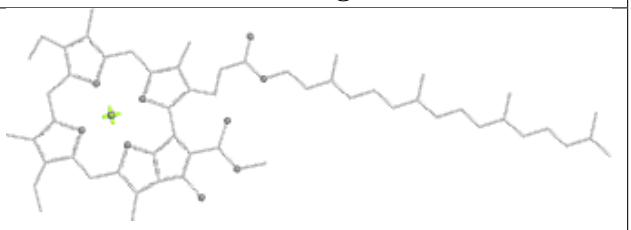
Bond lengths



Bond angles

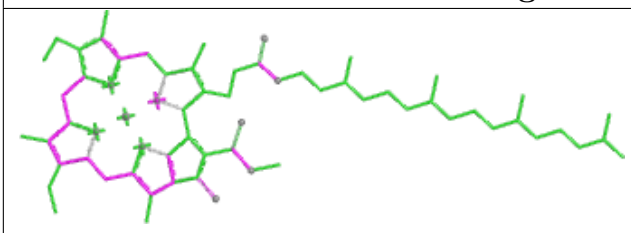


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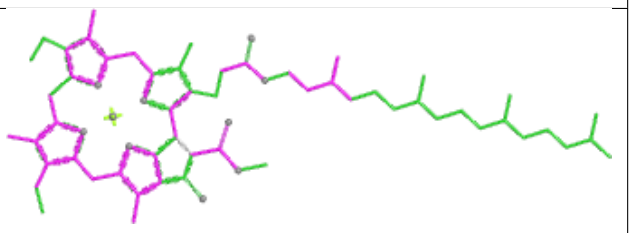


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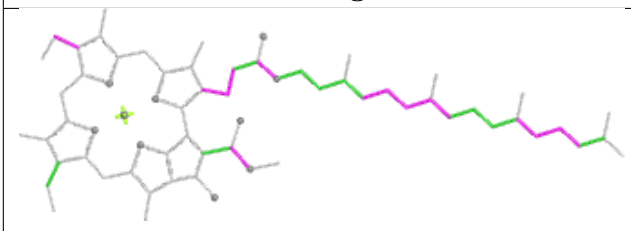
Ligand CLA b 6013



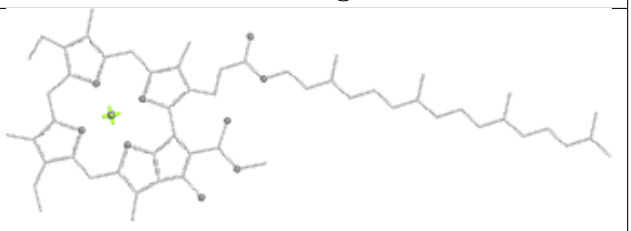
Bond lengths



Bond angles

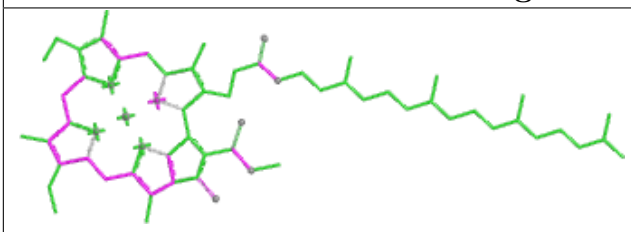


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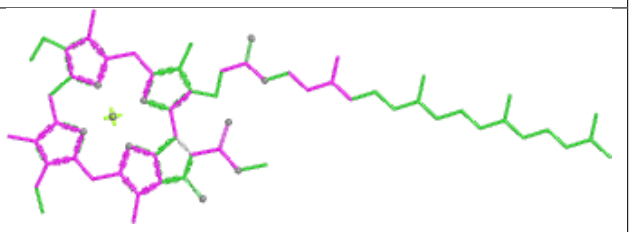


Rings

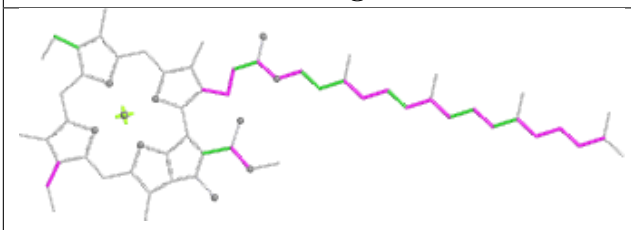
Ligand CLA A 1006



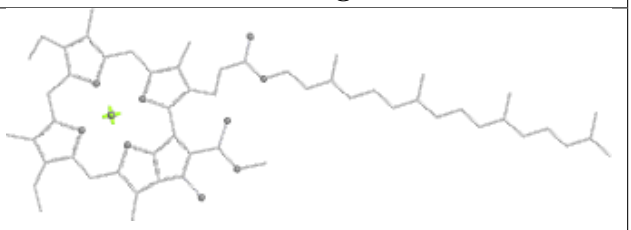
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Bond angles

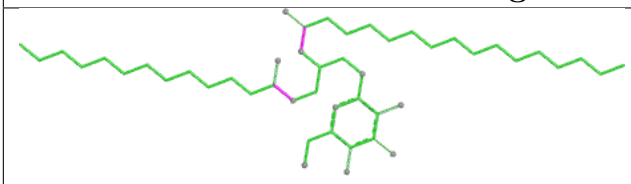


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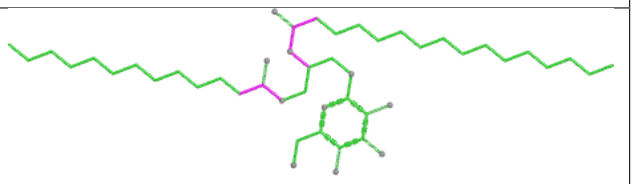


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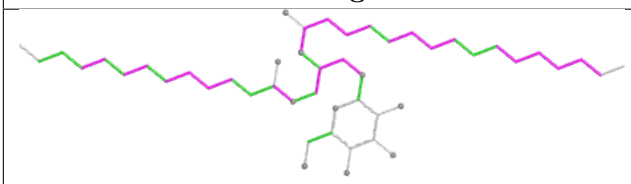
Ligand MGE D 1062



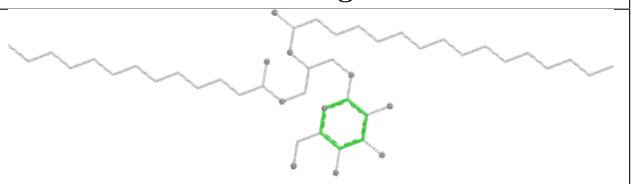
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Bond angles

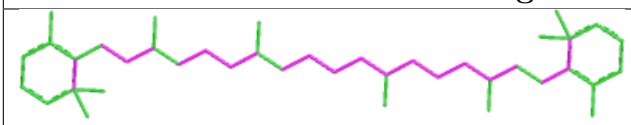


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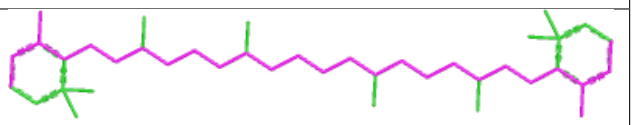


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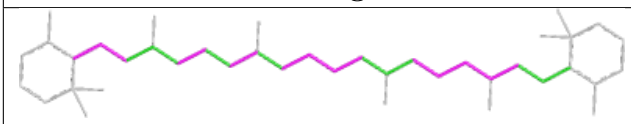
Ligand BCR h 6049



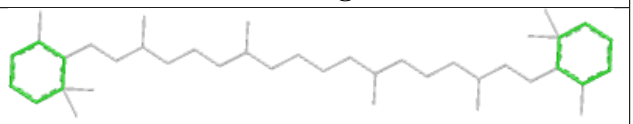
Bond lengths



Bond angles

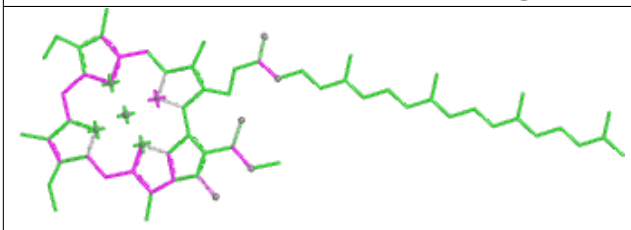


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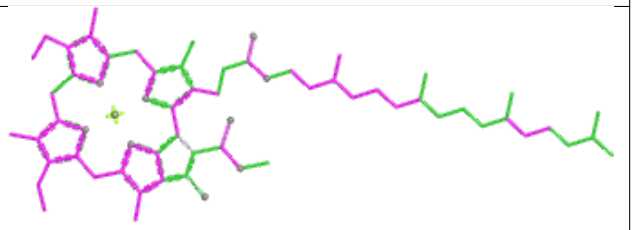


Rings

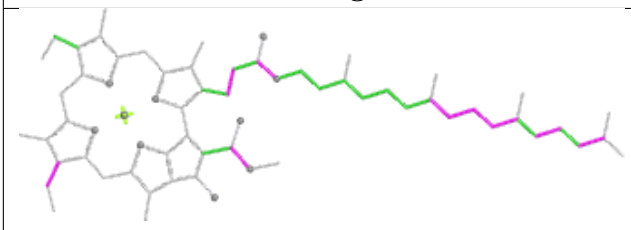
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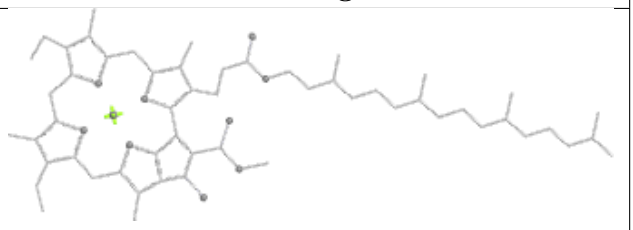
Bond lengths



Bond angles

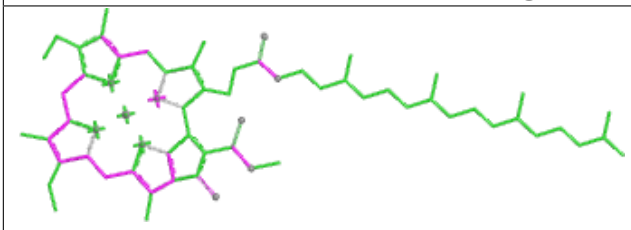


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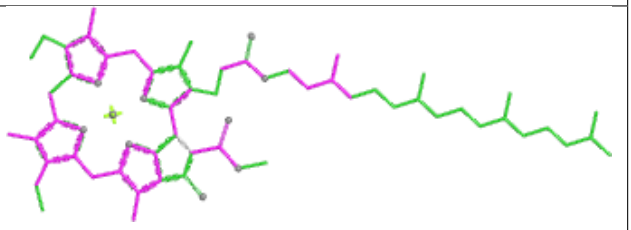


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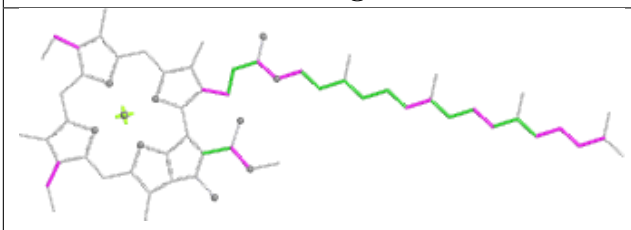
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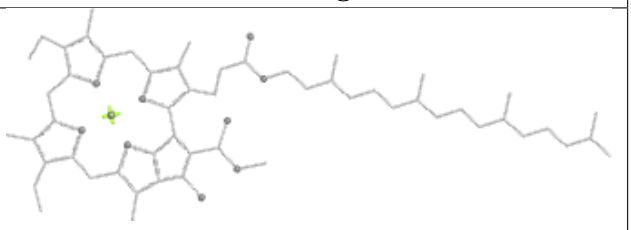
Bond lengths



Bond angles

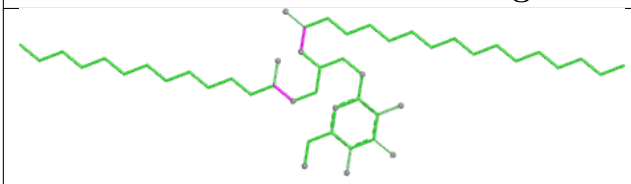


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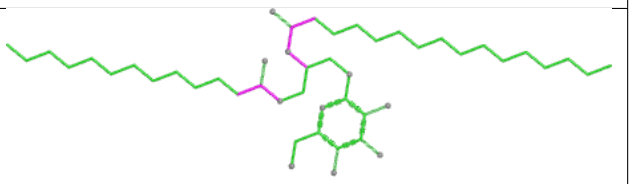


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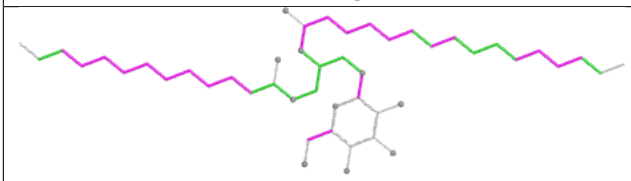
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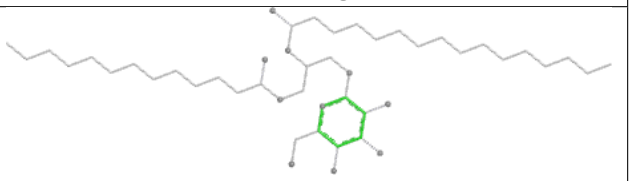
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Bond angles

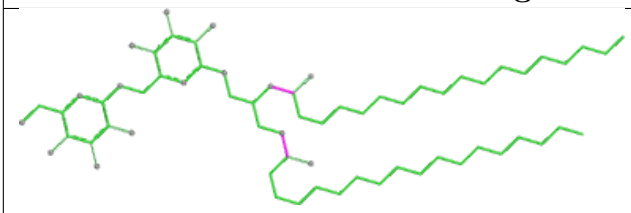


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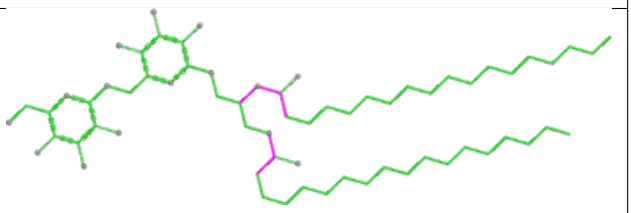


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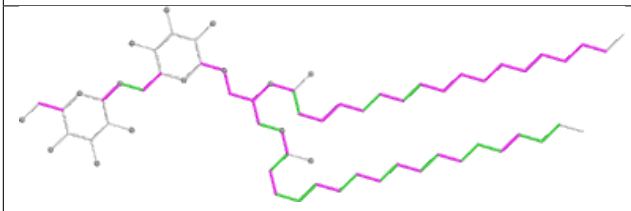
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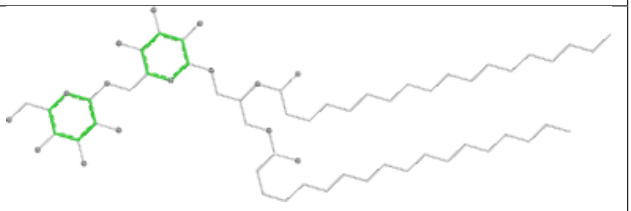
Bond lengths



Bond angles



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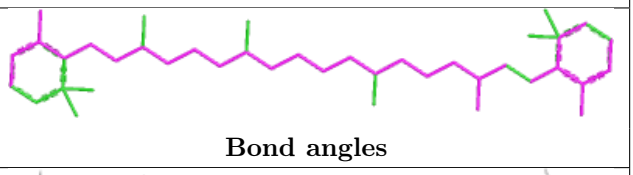


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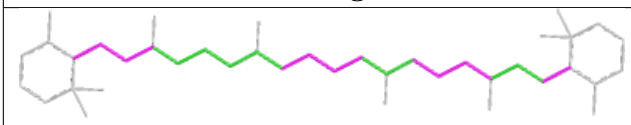
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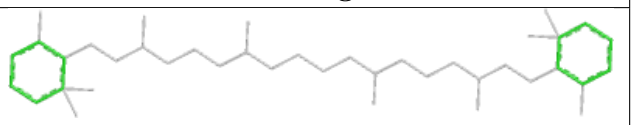
Bond lengths



Bond angles

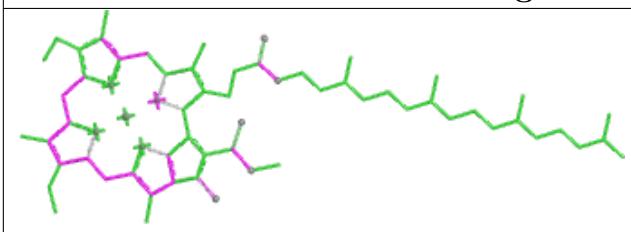


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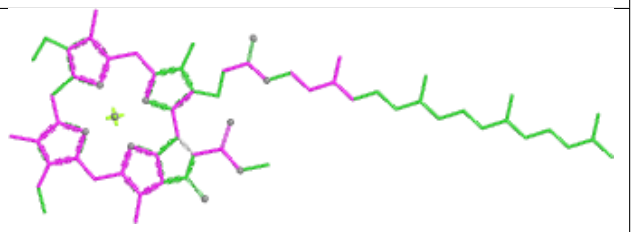


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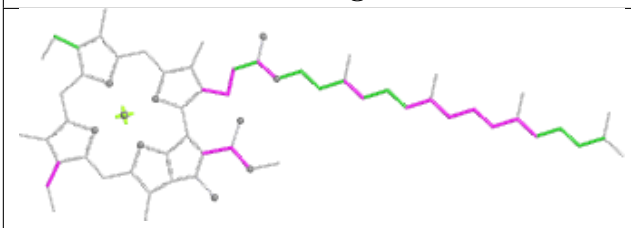
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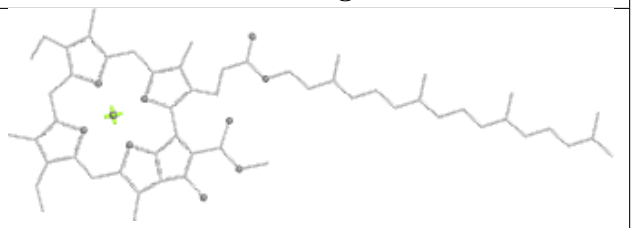
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Bond angles

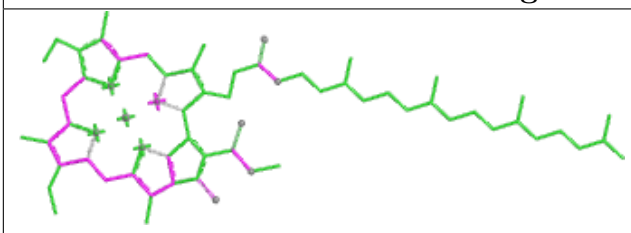


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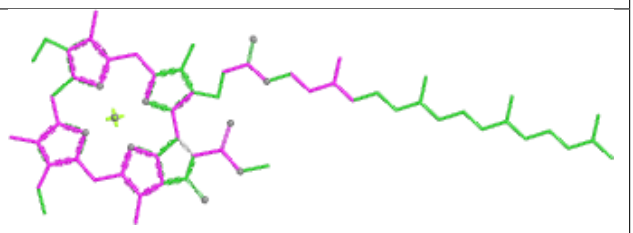


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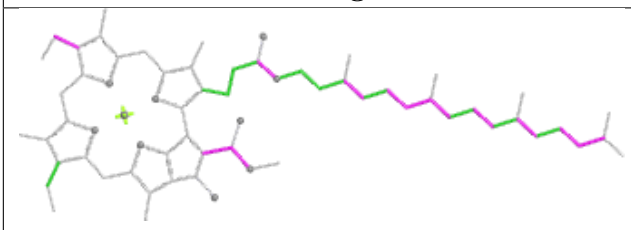
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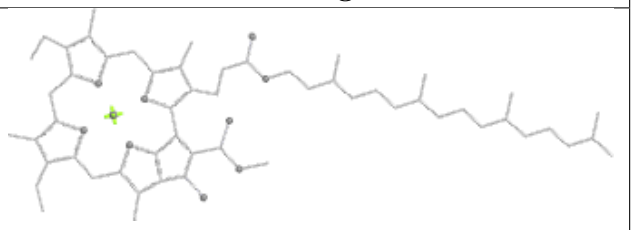
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Bond angles

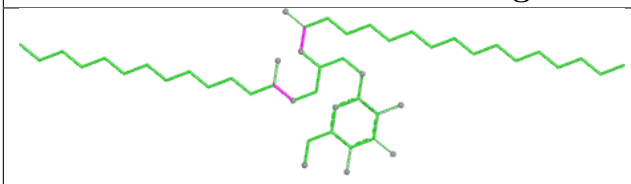


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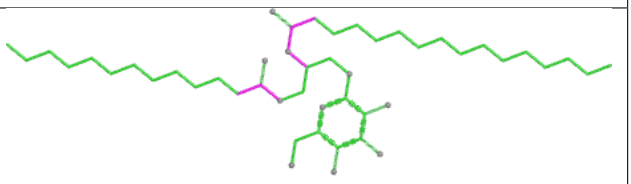


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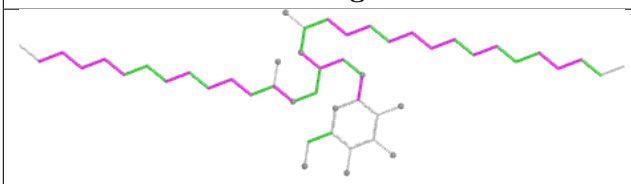
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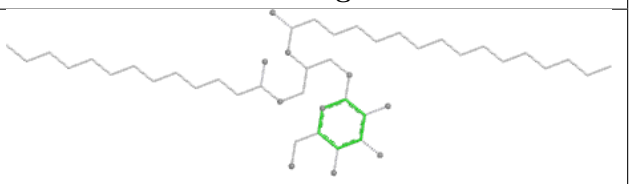
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Bond angles

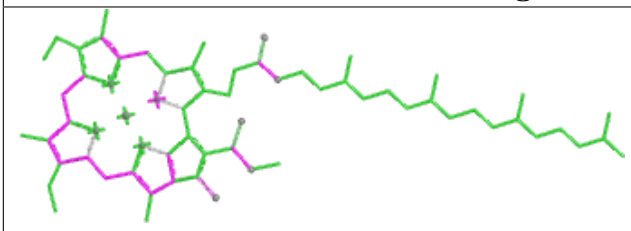


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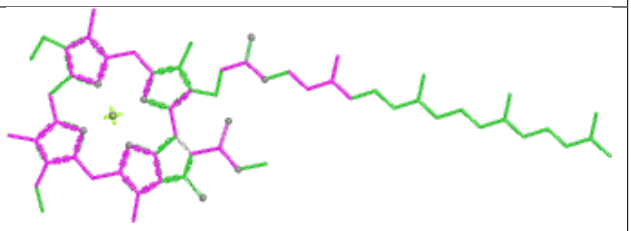


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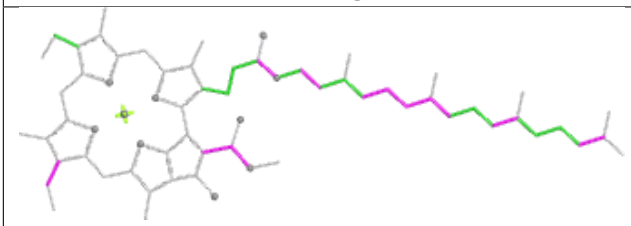
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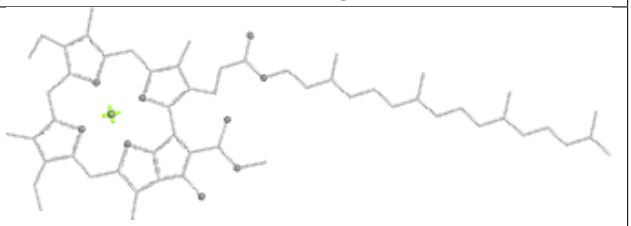
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Bond angles

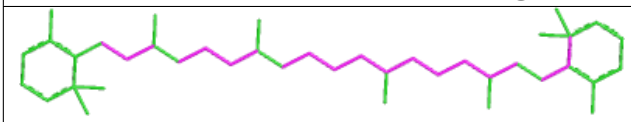


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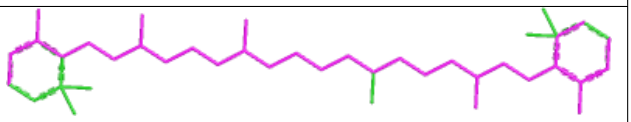


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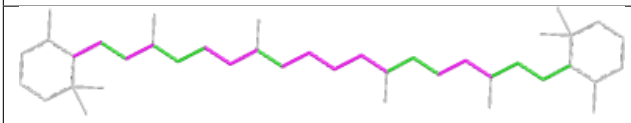
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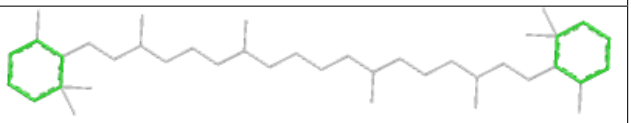
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Bond angles

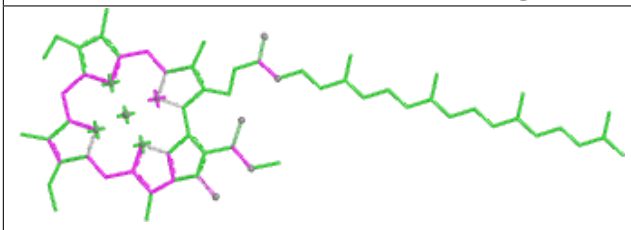


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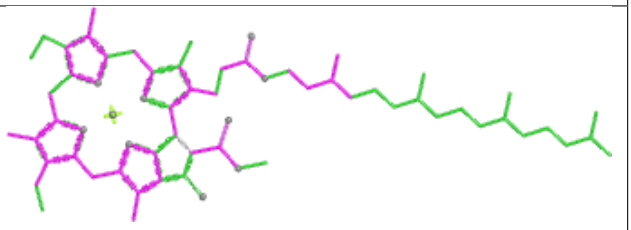


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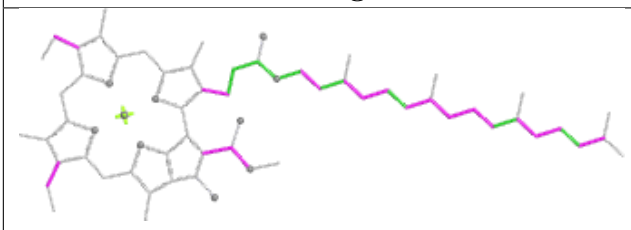
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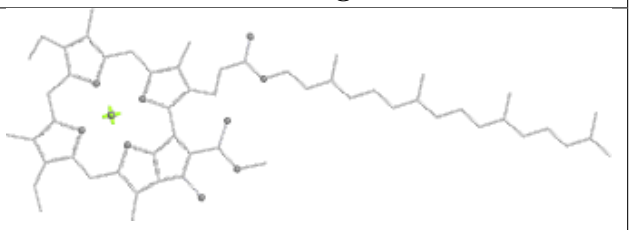
Bond lengths



Bond angles

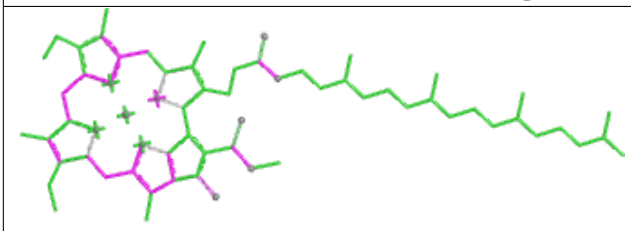


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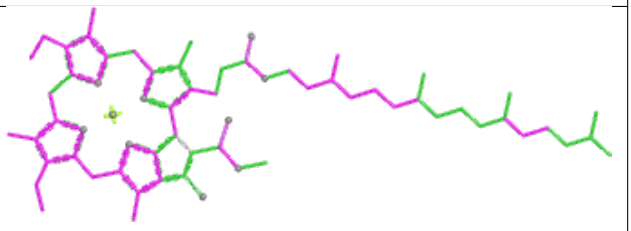


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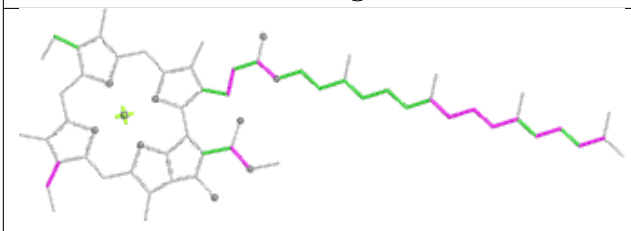
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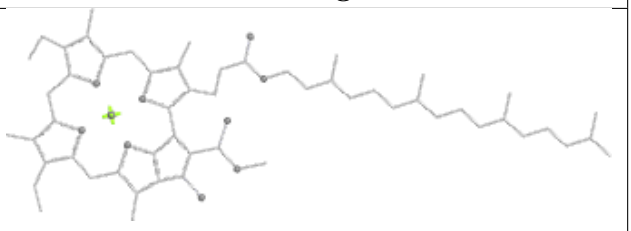
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Bond angles

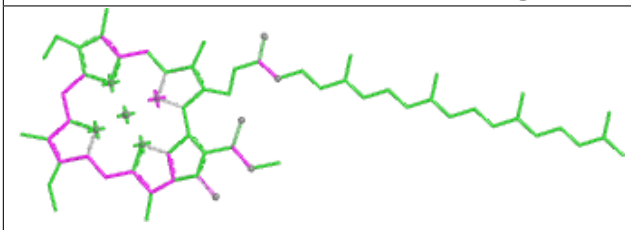


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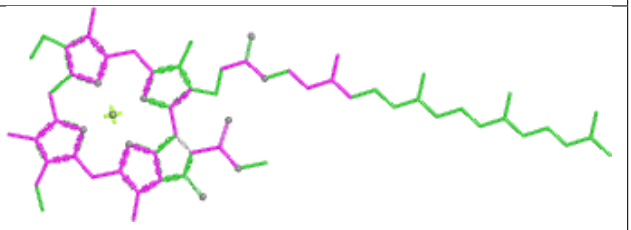


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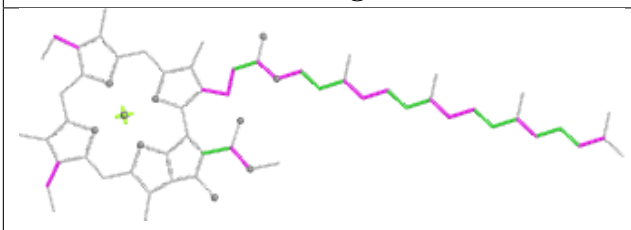
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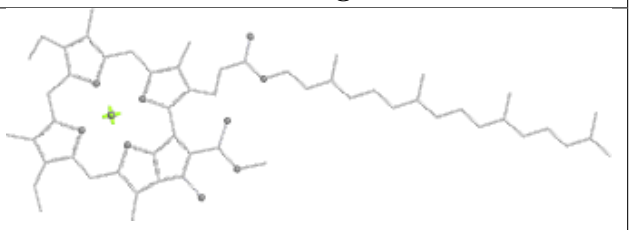
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Bond angles

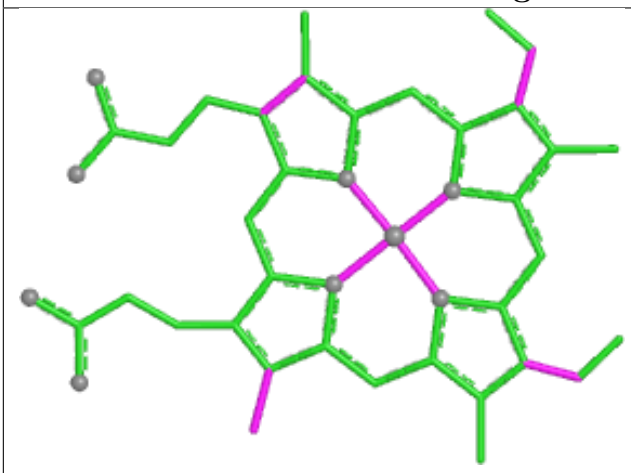


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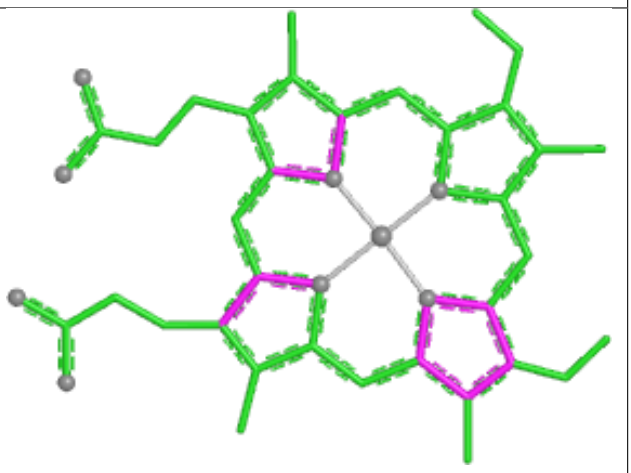


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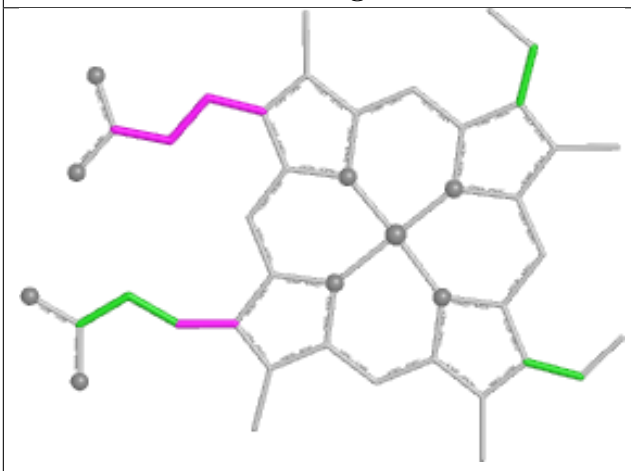
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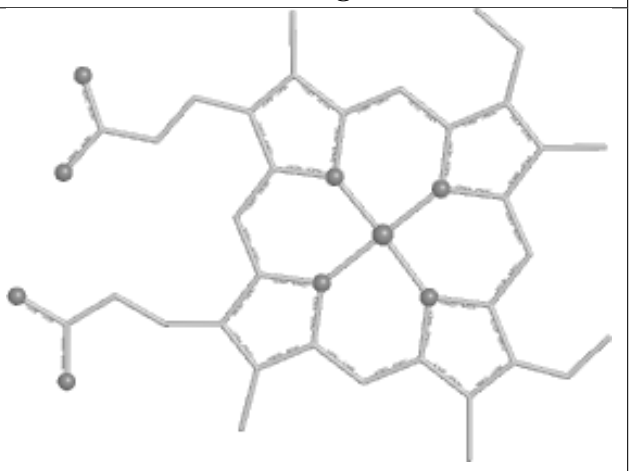
Bond lengths



Bond angles

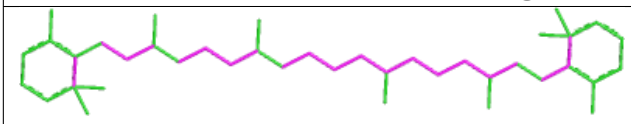


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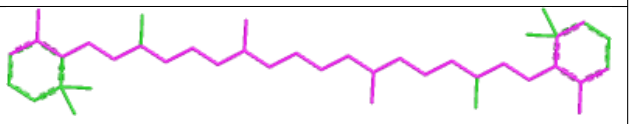


Rings

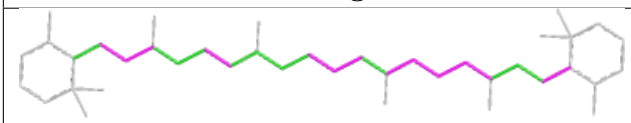
Ligand BCR c 6054



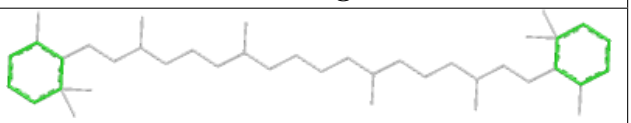
Bond lengths



Bond angles

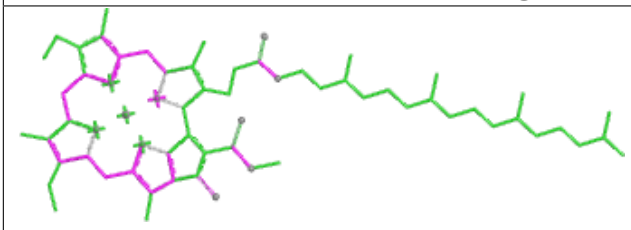


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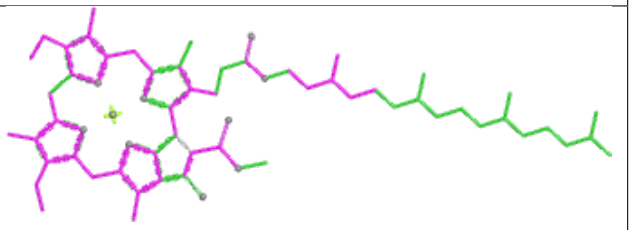


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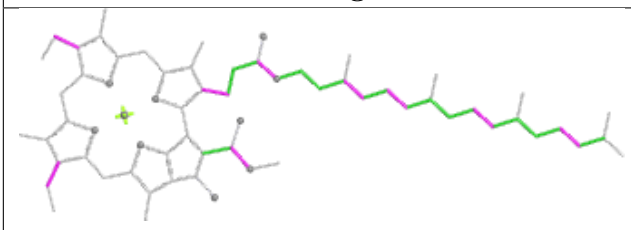
Ligand CLA B 1024



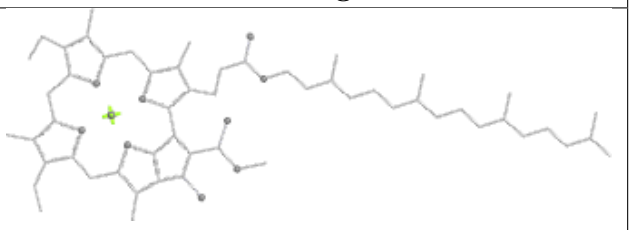
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Bond angles

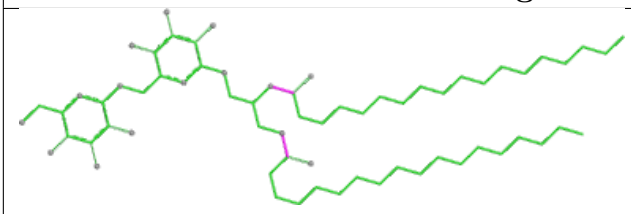


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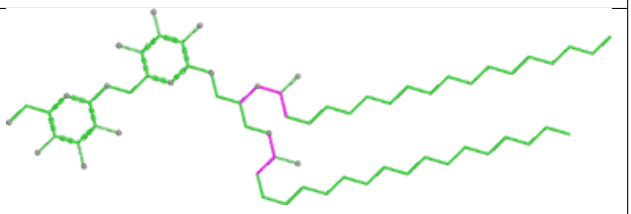


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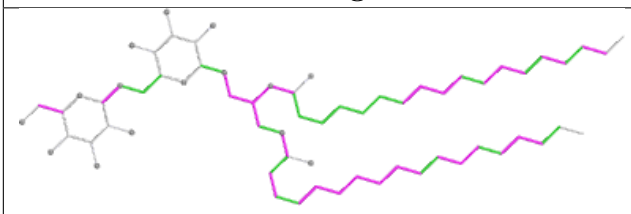
Ligand DGD c 6056



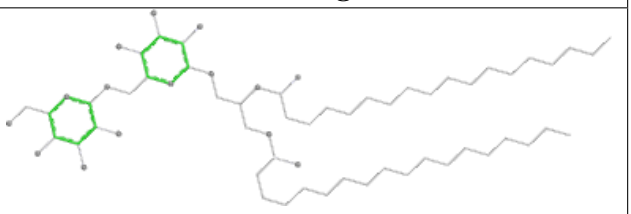
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Bond angles

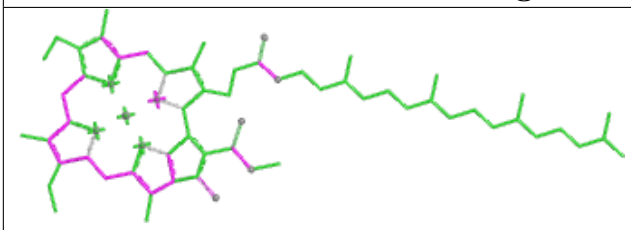


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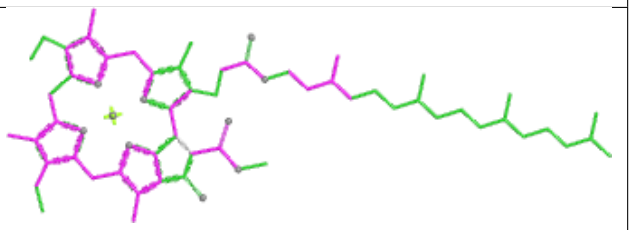


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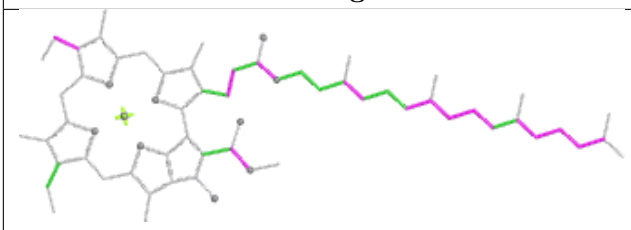
Ligand CLA C 1025



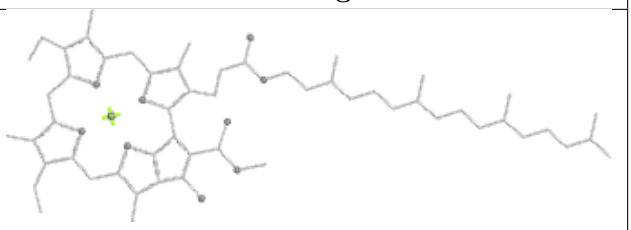
Bond lengths



Bond angles

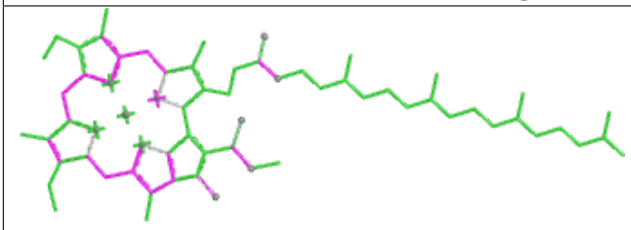


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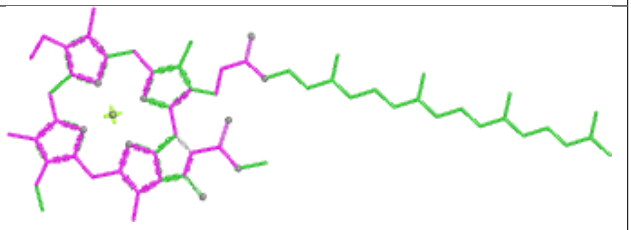


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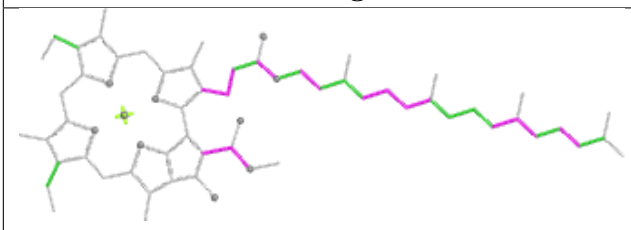
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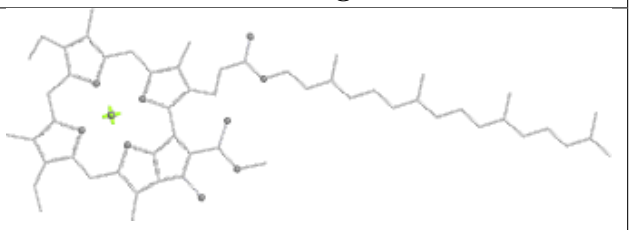
Bond lengths



Bond angles

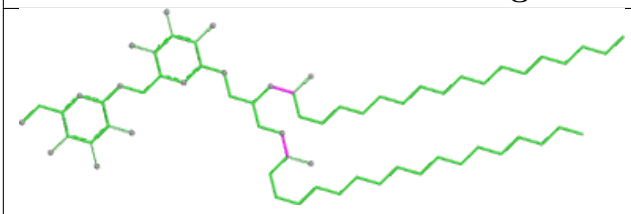


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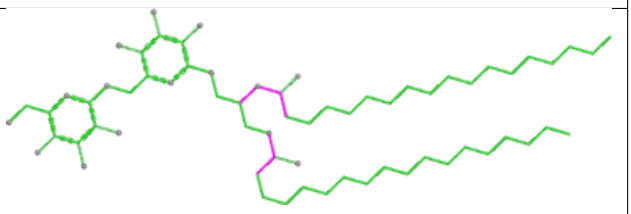


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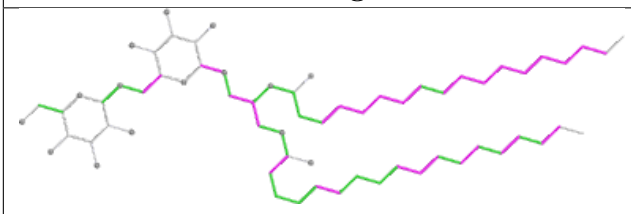
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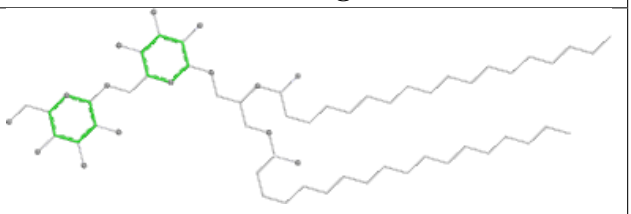
Bond lengths



Bond angles

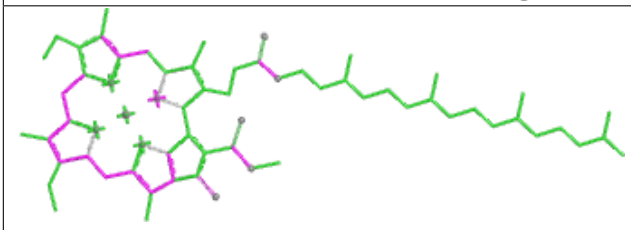


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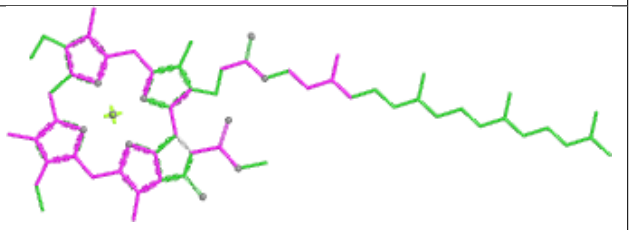


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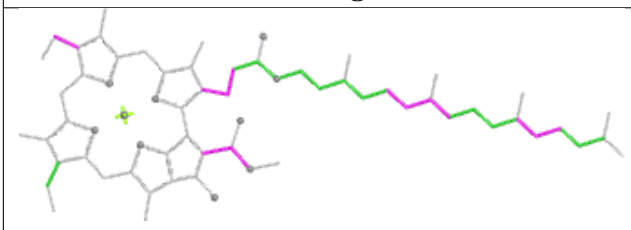
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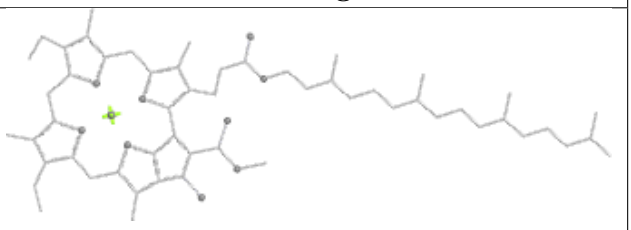
Bond lengths



Bond angles

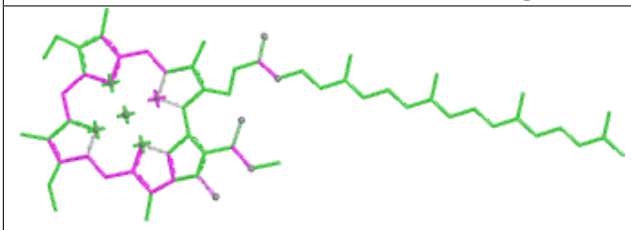


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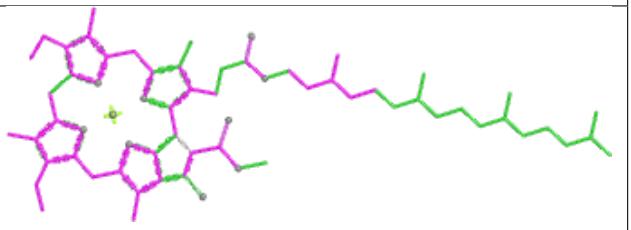


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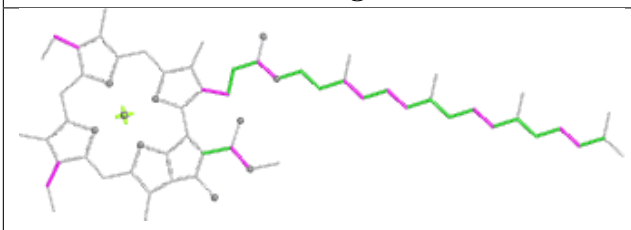
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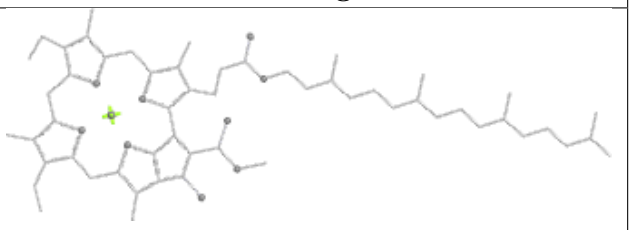
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Bond angles

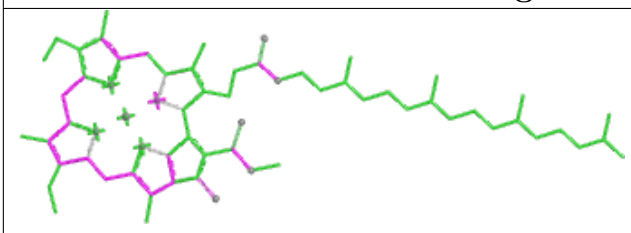


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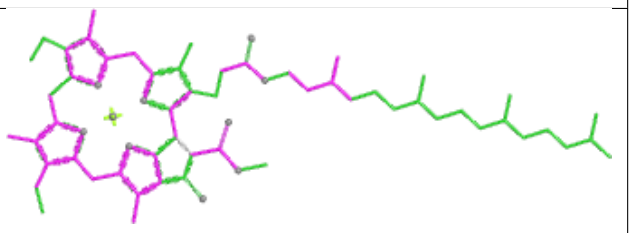


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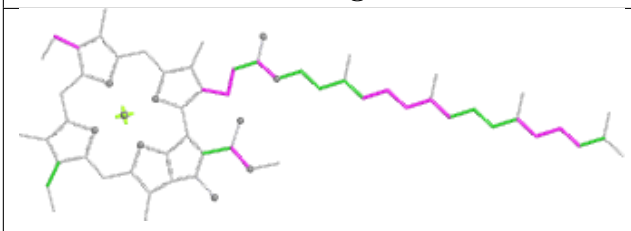
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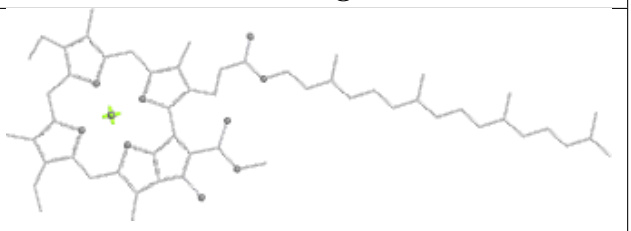
Bond lengths



Bond angles

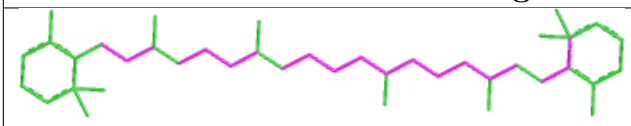


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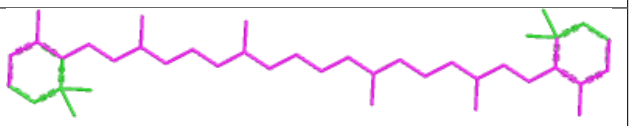


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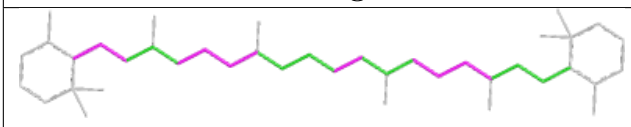
Ligand BCR D 1050



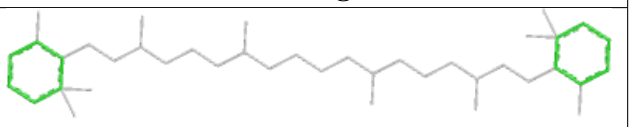
Bond lengths



Bond angles

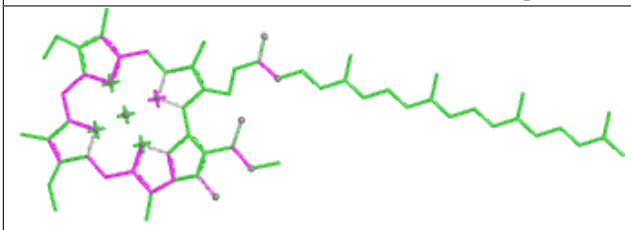


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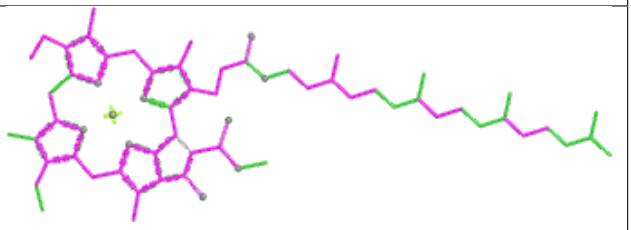


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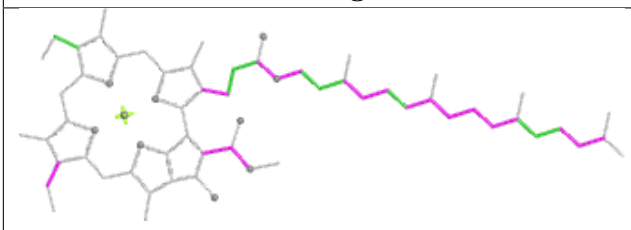
Ligand CLA b 6019



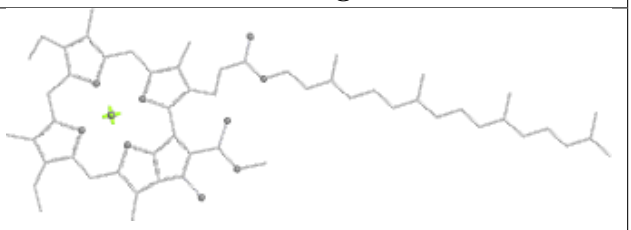
Bond lengths



Bond angles

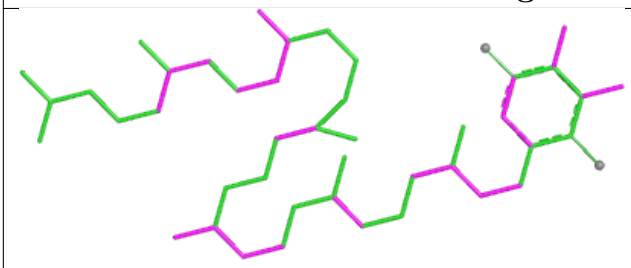


Torsions



Rings

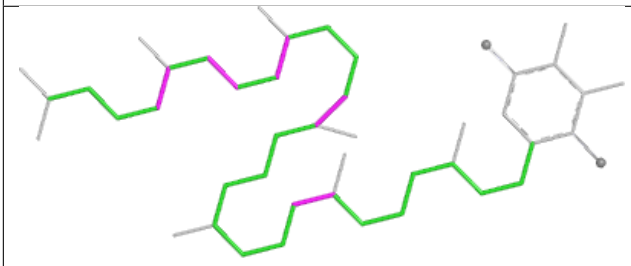
Ligand PQ9 D 1042



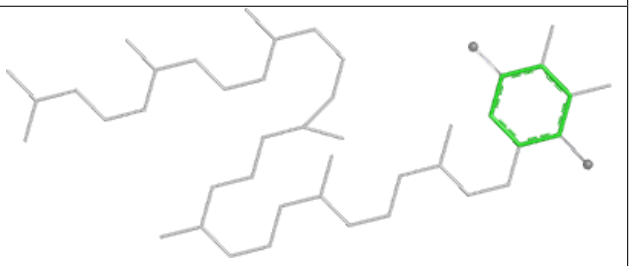
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Bond angles

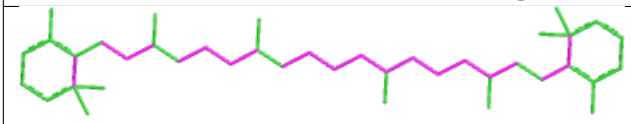


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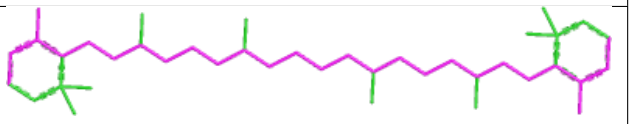


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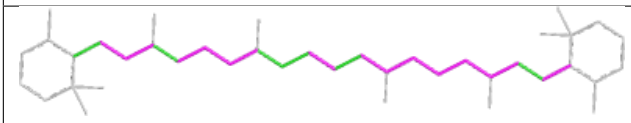
Ligand BCR K 1052



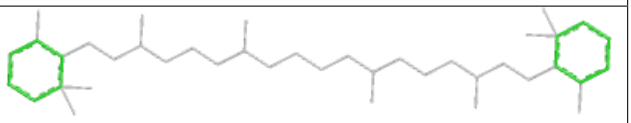
Bond lengths



Bond angles

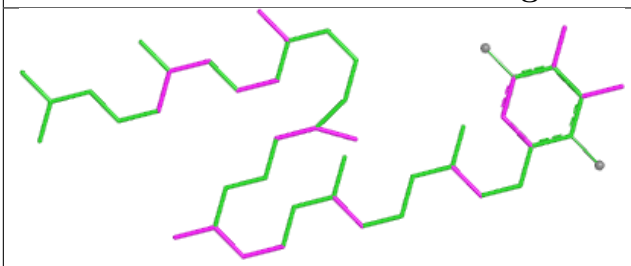


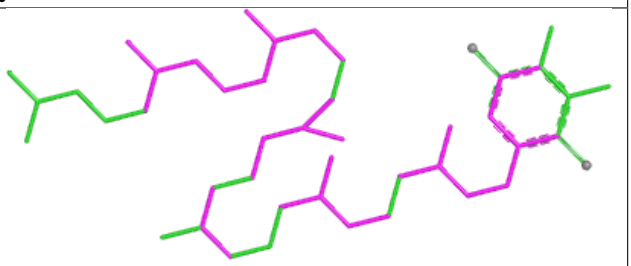
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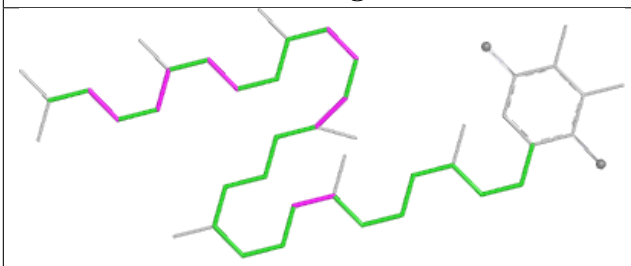


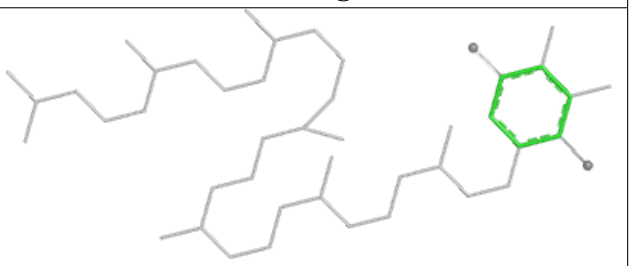
Rings

Ligand PQ9 d 6042

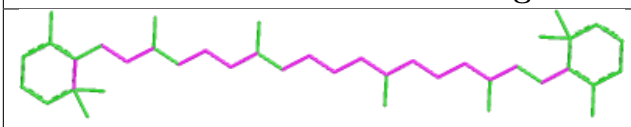

Bond lengths

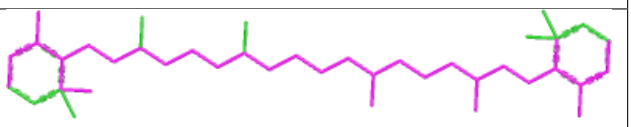

Bond angles

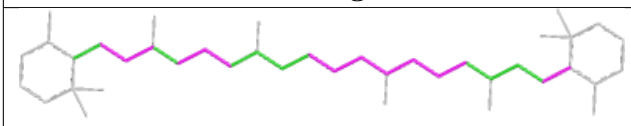

Torsions

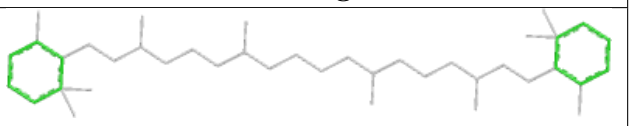

Rings

Ligand BCR B 1047

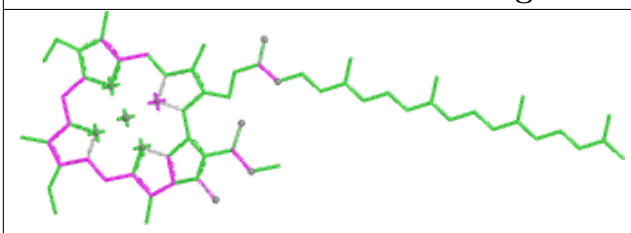

Bond lengths

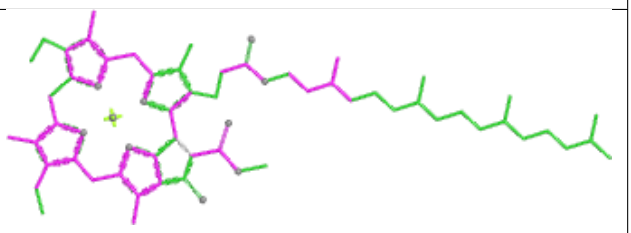

Bond angles

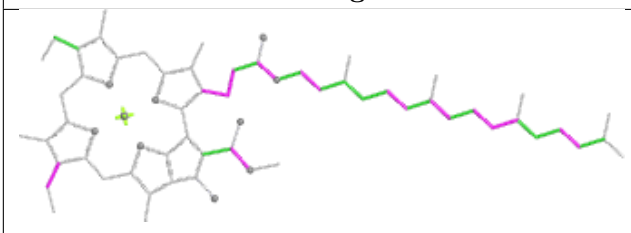

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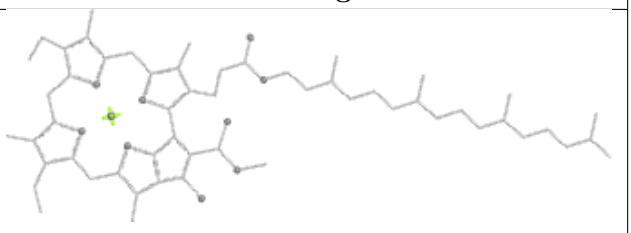

Rings

Ligand CLA C 1032

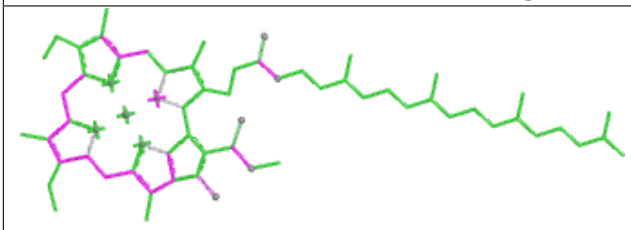

Bond lengths


Bond angles

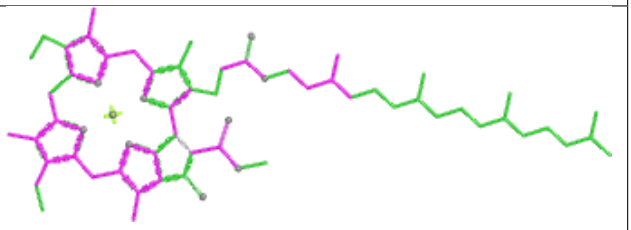

Torsions


Rings

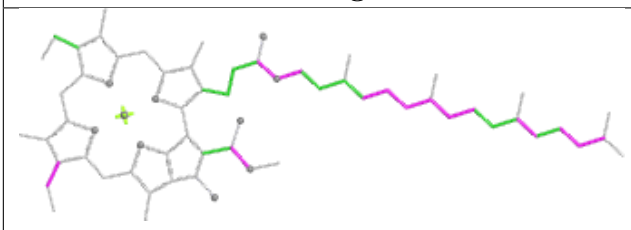
Ligand CLA a 6003



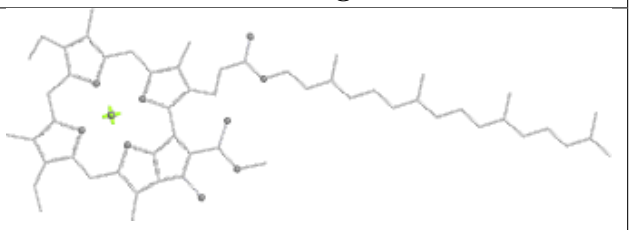
Bond lengths



Bond angles

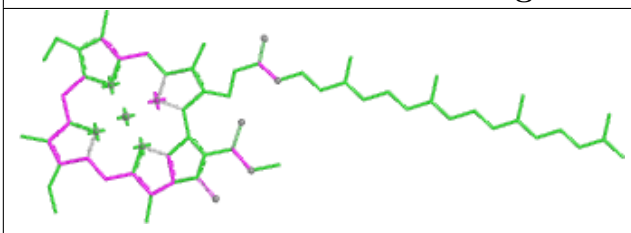


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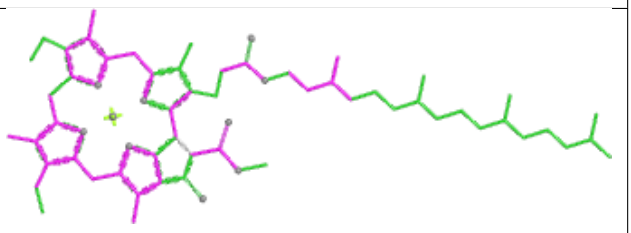


Rings

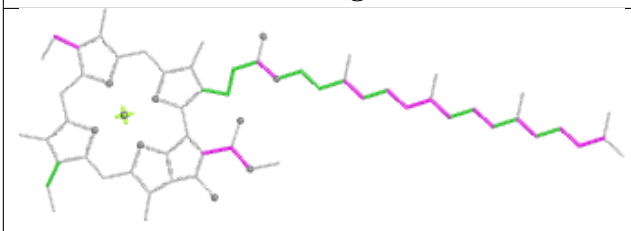
Ligand CLA C 1035



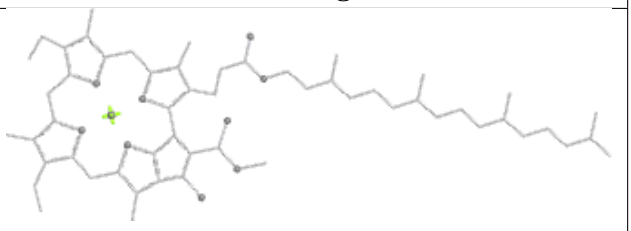
Bond lengths



Bond angles

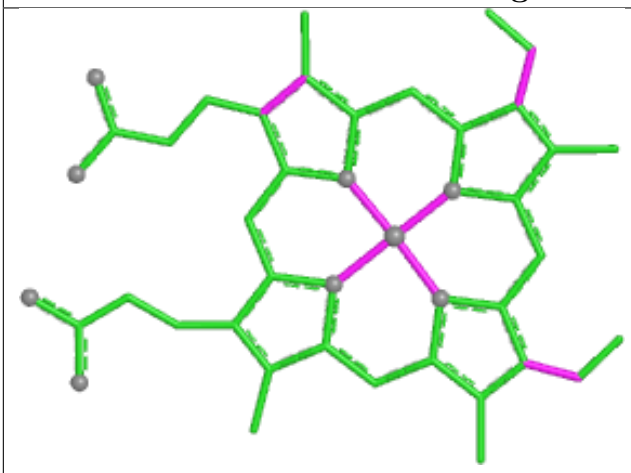


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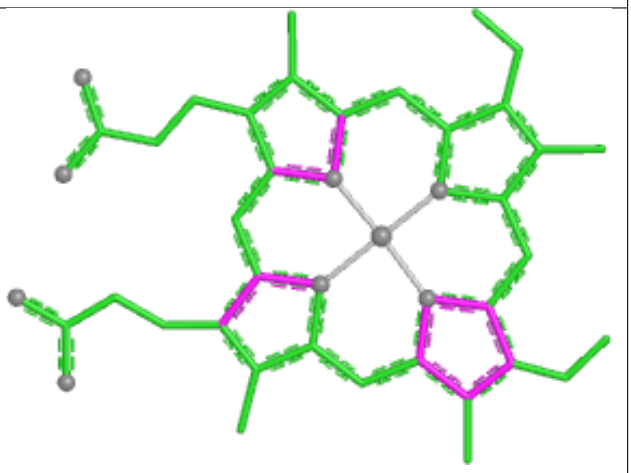


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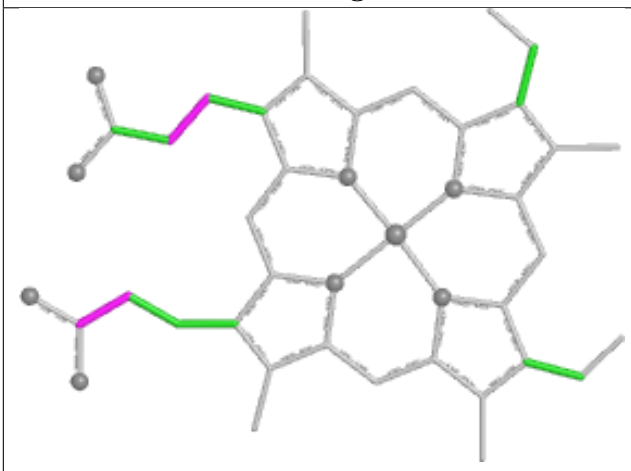
Ligand HEM E 1040



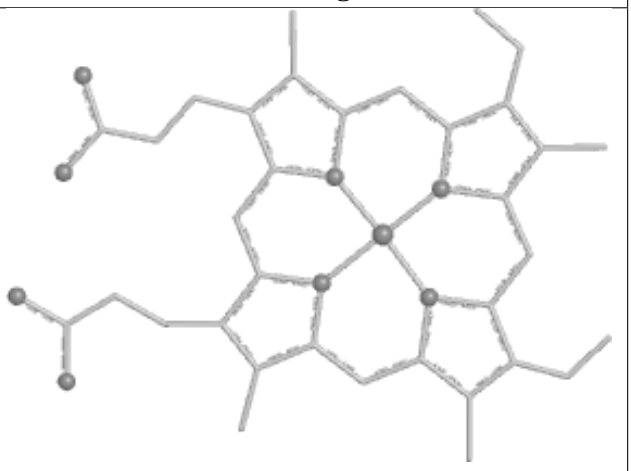
Bond lengths



Bond angles

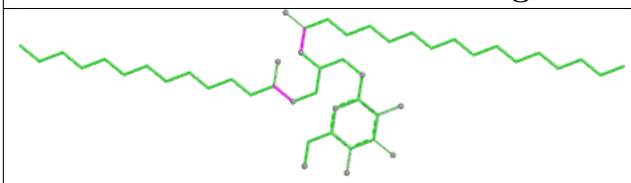


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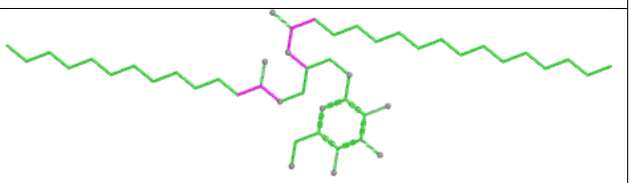


Rings

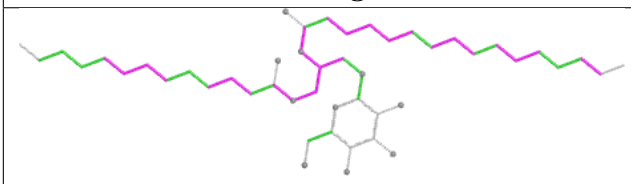
Ligand MGE L 1061



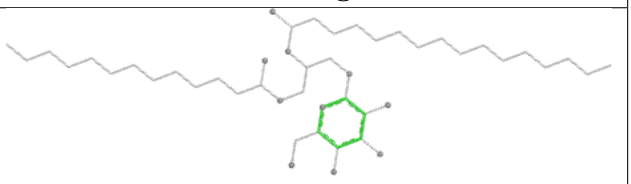
Bond lengths



Bond angles

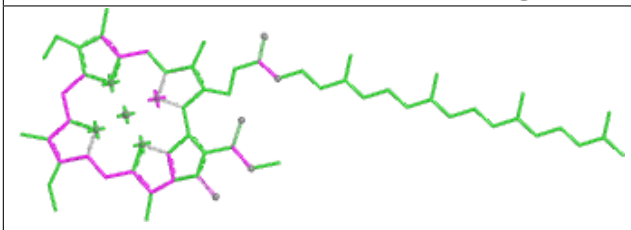


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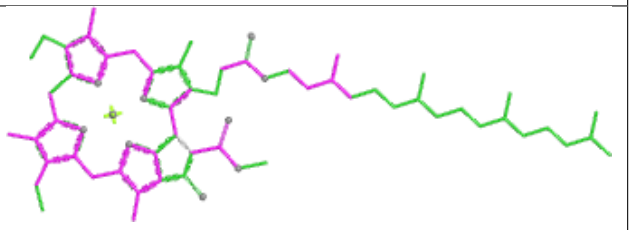


Rings

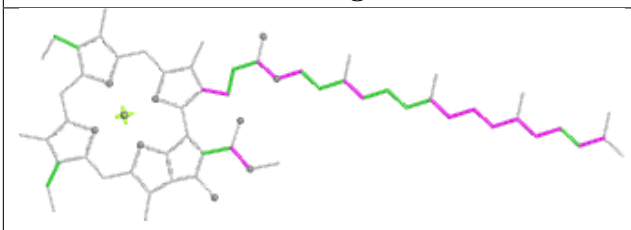
Ligand CLA B 1023



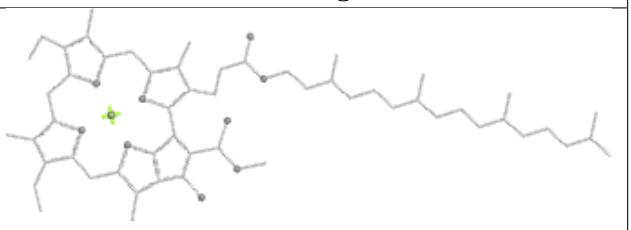
Bond lengths



Bond angles

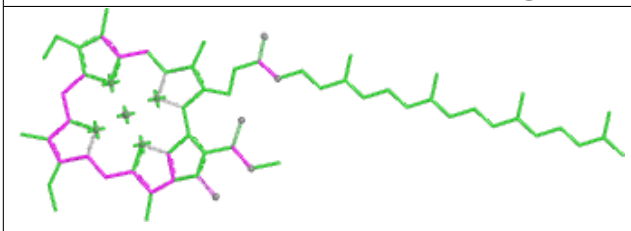


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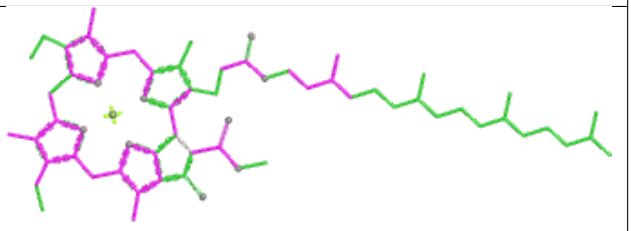


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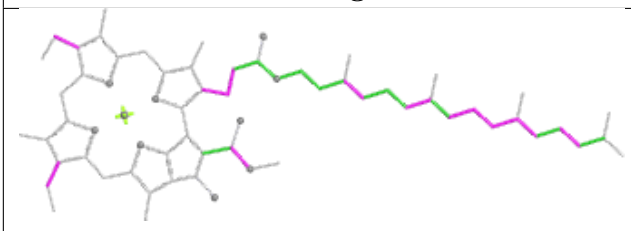
Ligand CLA c 6027



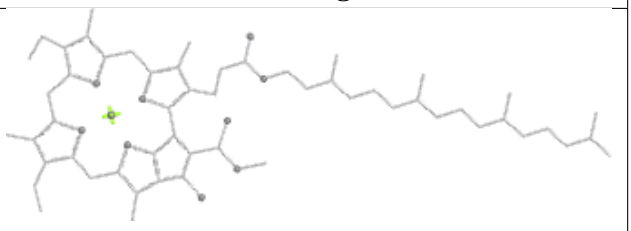
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Bond angles

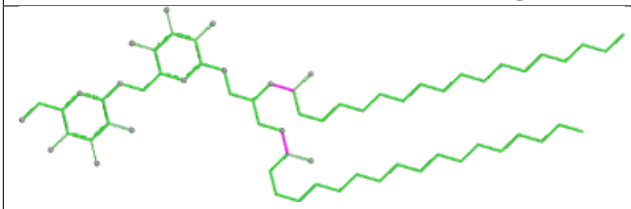


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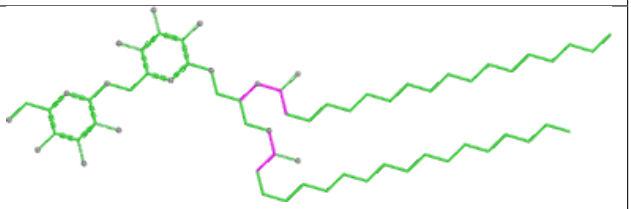


Rings

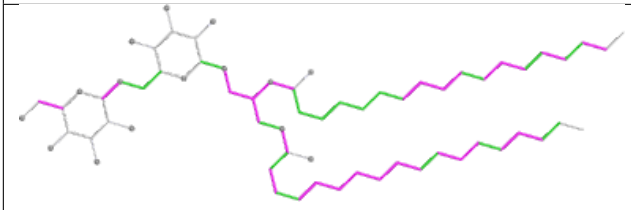
Ligand DGD C 1056



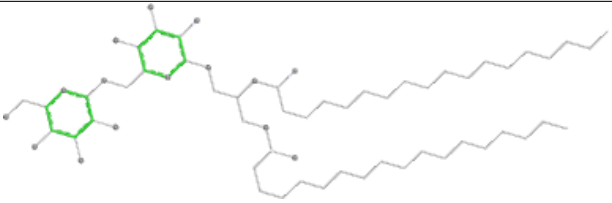
Bond lengths



Bond angles

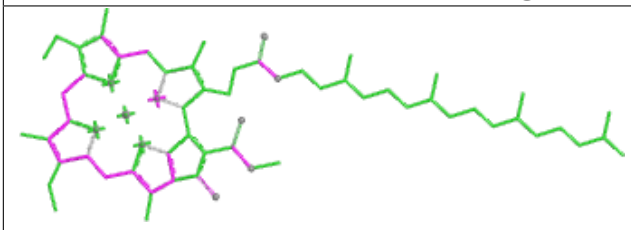


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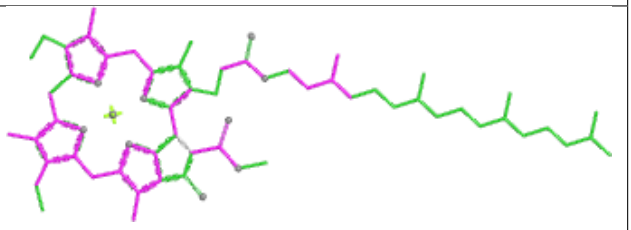


Rings

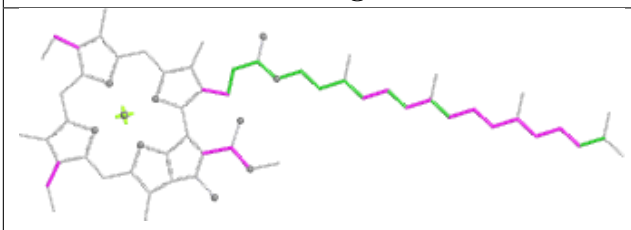
Ligand CLA b 6016



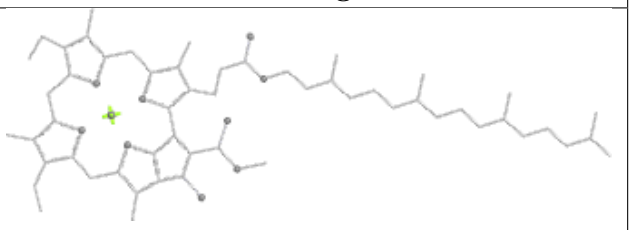
Bond lengths



Bond angles

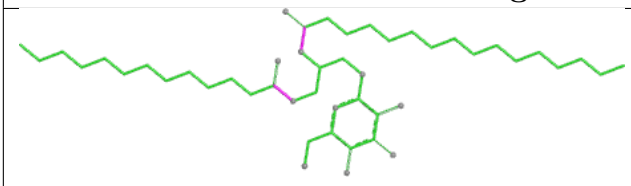


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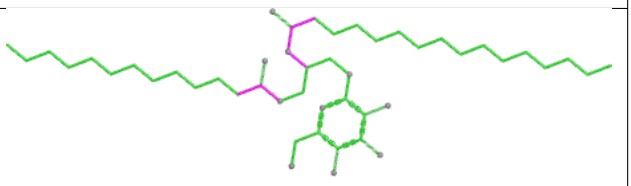


Rings

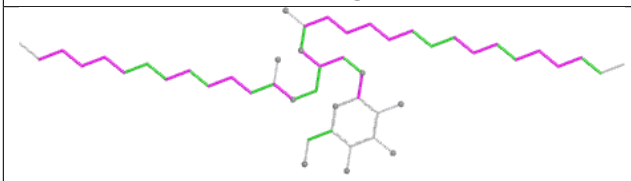
Ligand MGE B 1060



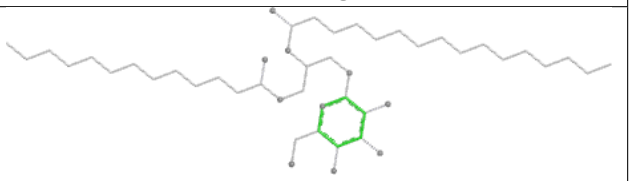
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Bond angles

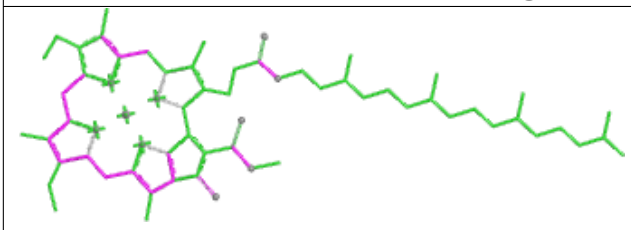


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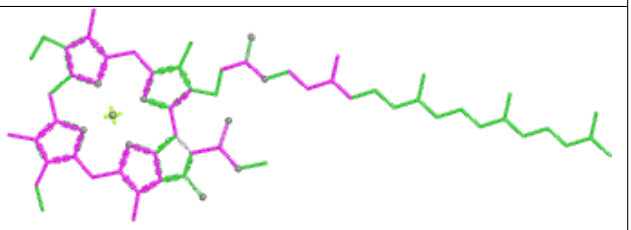


Rings

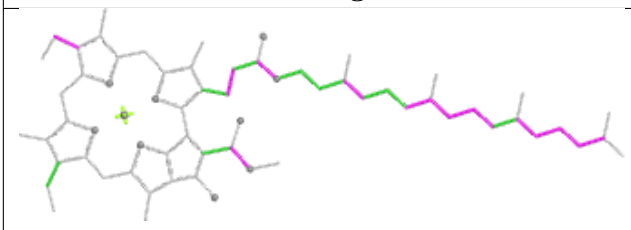
Ligand CLA c 6025



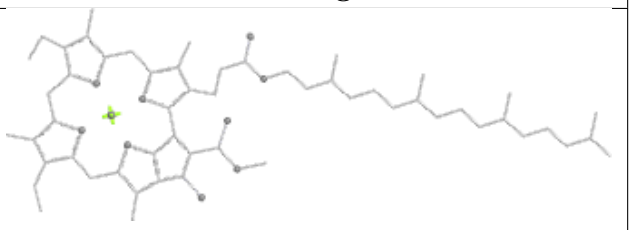
Bond lengths



Bond angles

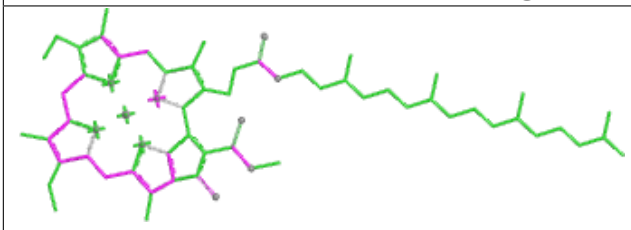


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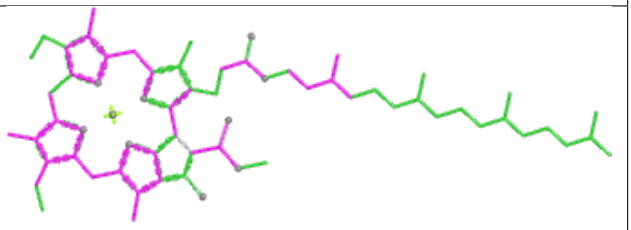


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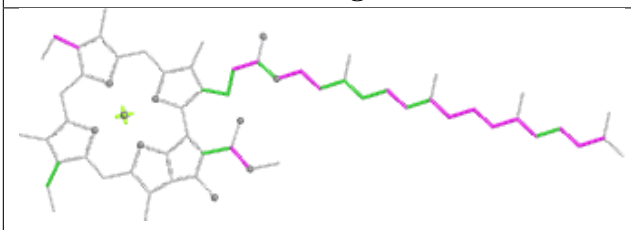
Ligand CLA b 6020



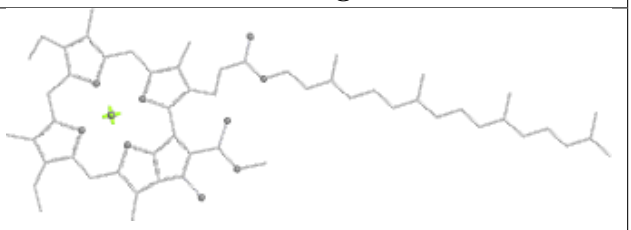
Bond lengths



Bond angles

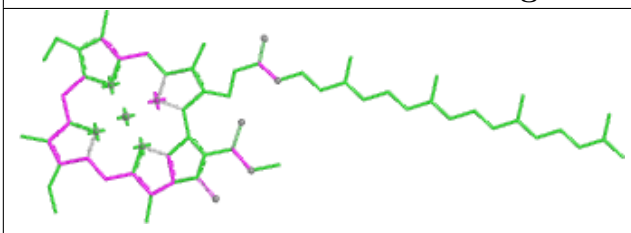


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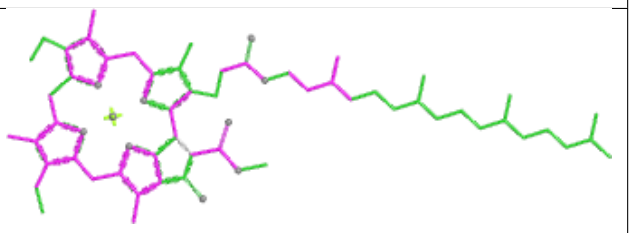


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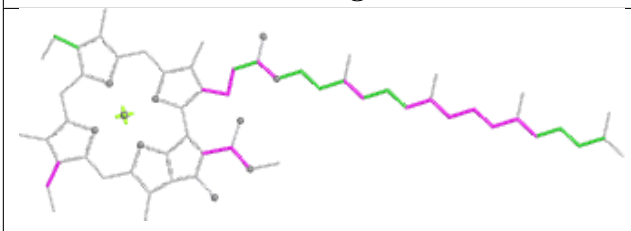
Ligand CLA c 6028



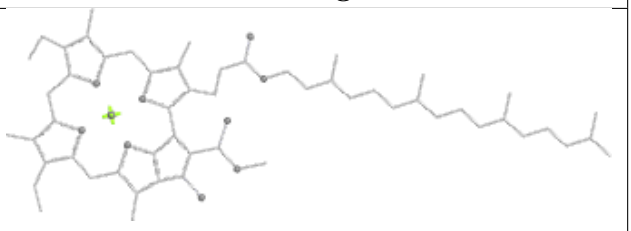
Bond lengths



Bond angles

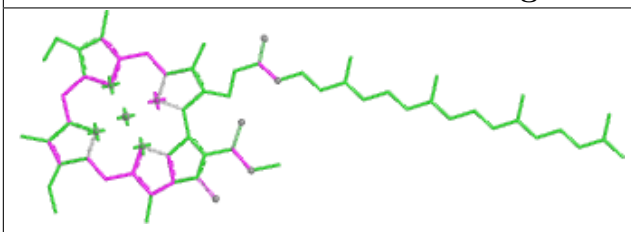


Torsions

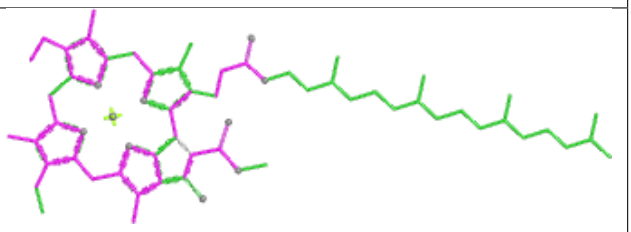


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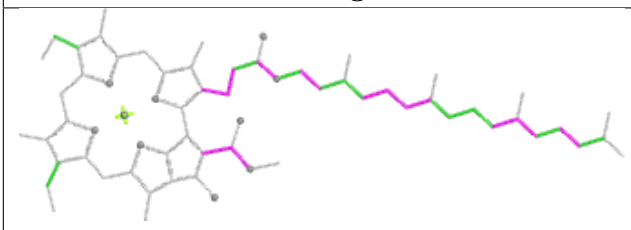
Ligand CLA c 6026



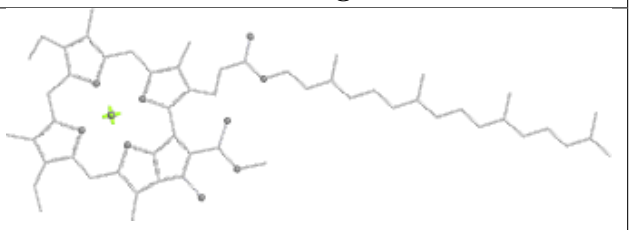
Bond lengths



Bond angles



Torsions

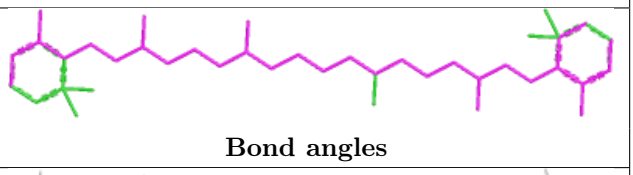


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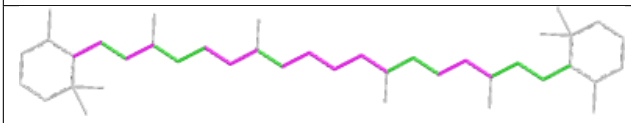
Ligand BCR k 6051



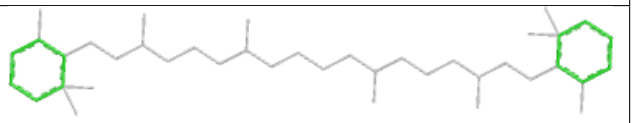
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Bond angles

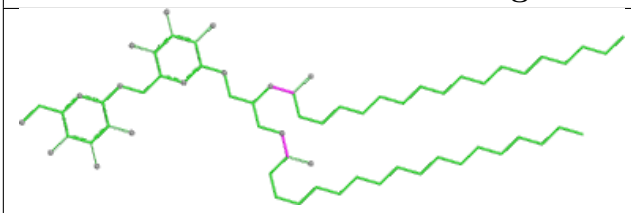


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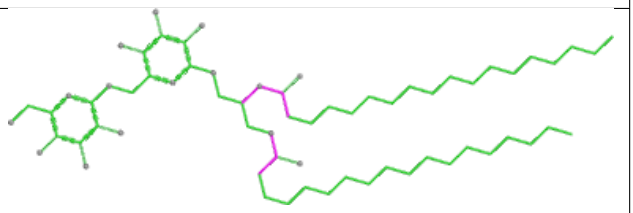


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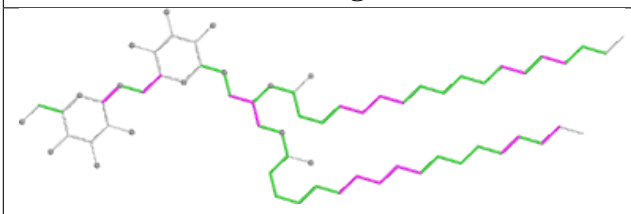
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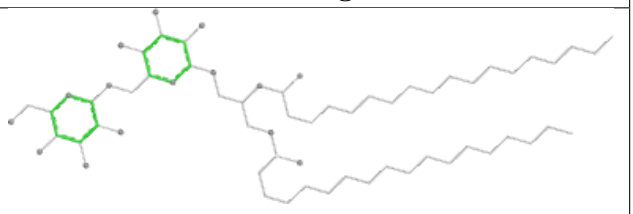
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Bond angles

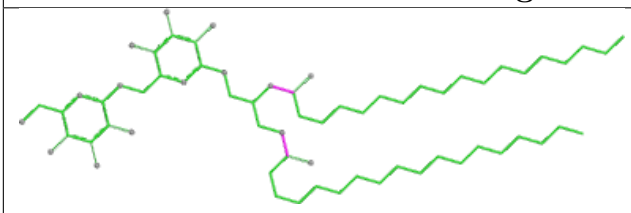


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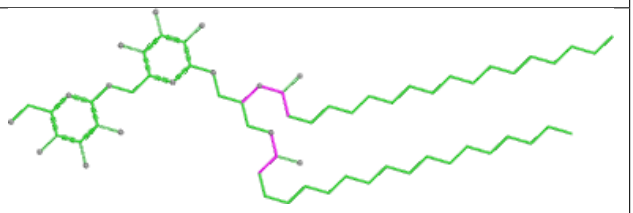


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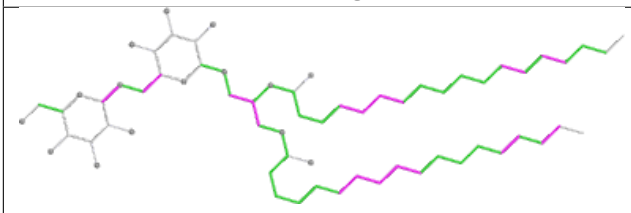
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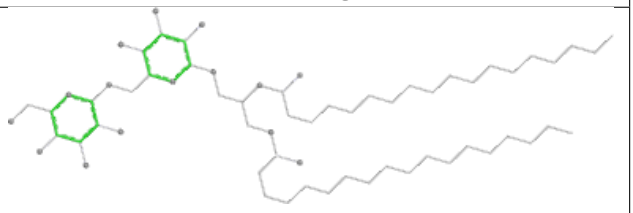
Bond lengths



Bond angles

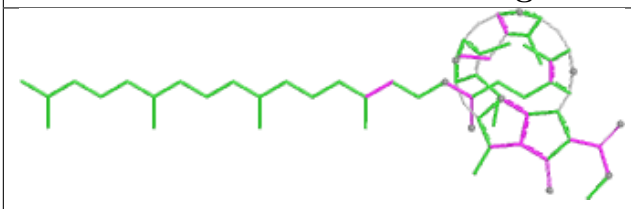


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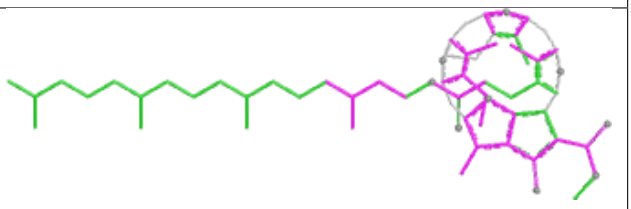


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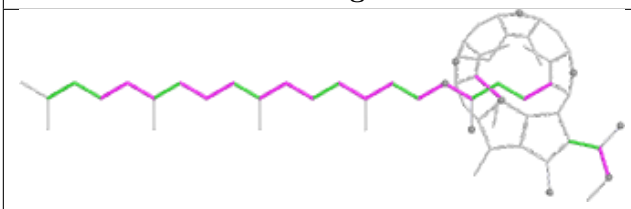
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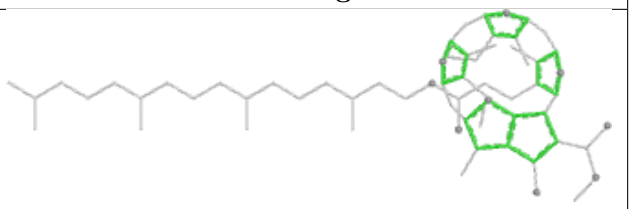
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Bond angles

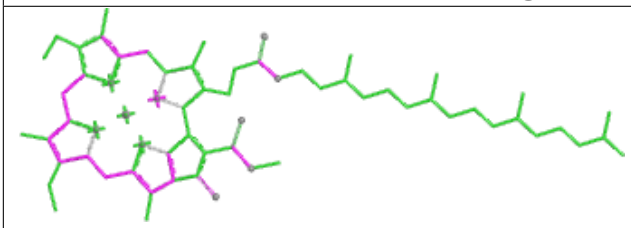


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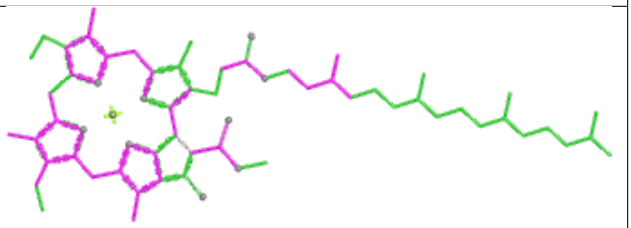


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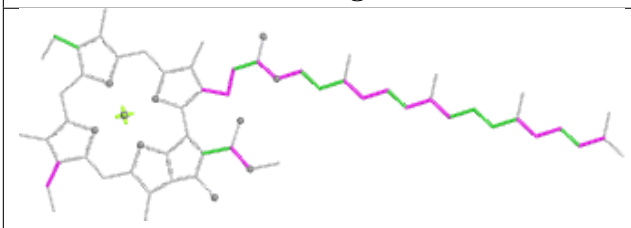
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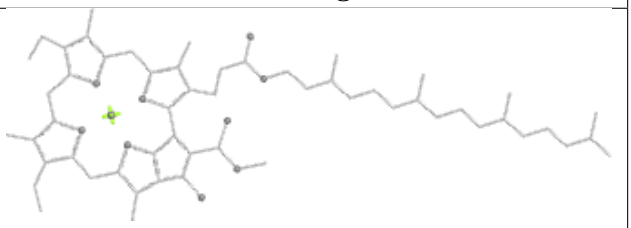
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Bond angles

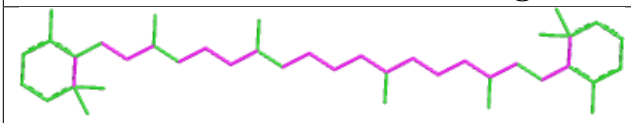


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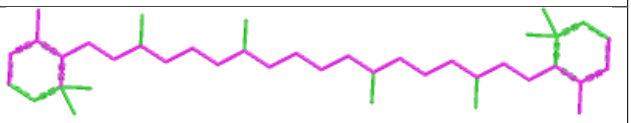


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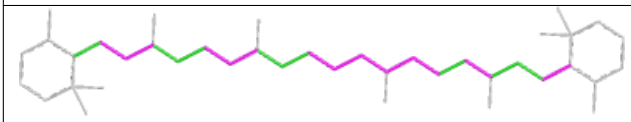
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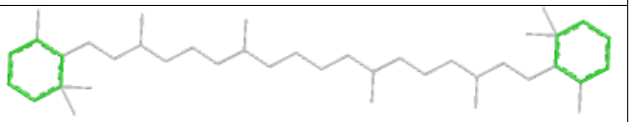
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Bond angles

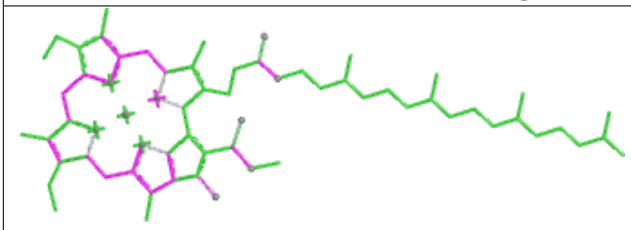


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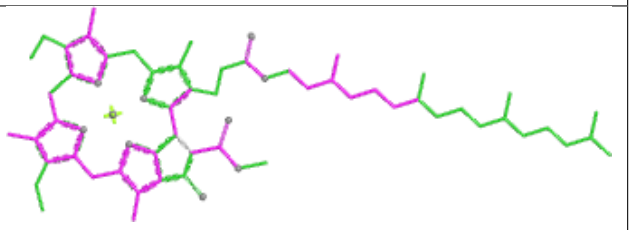


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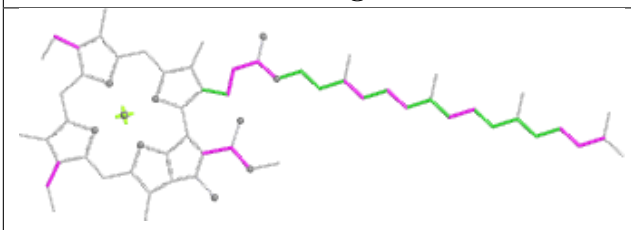
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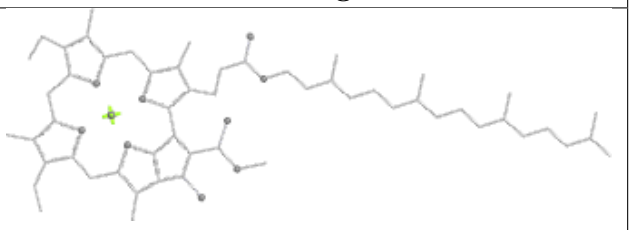
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Bond angles

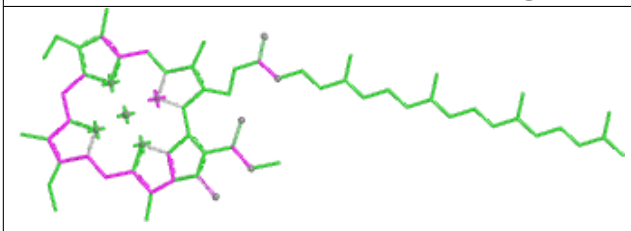


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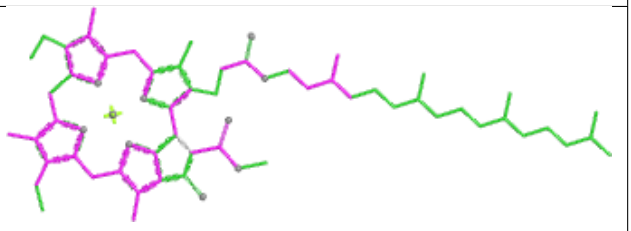


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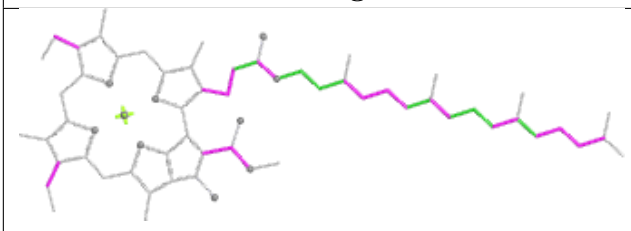
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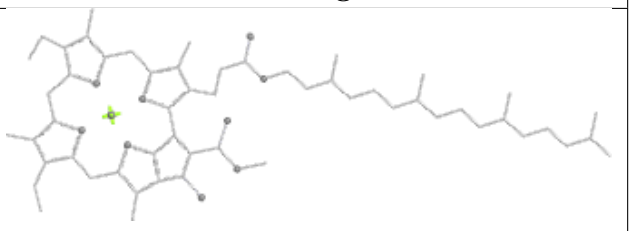
Bond lengths



Bond angles

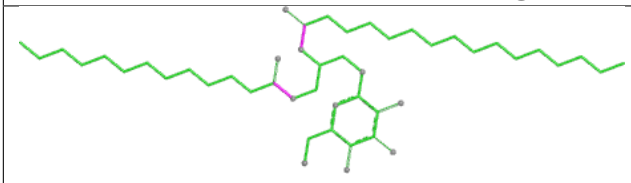


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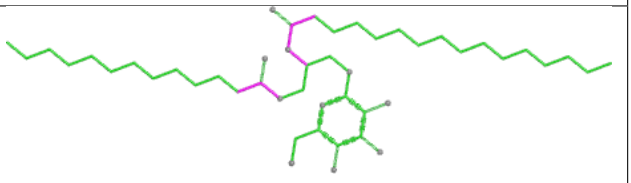


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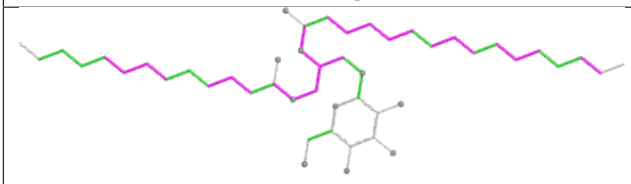
Ligand MGE d 6061



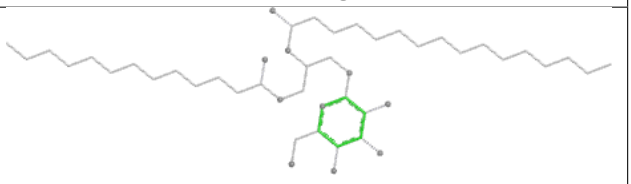
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Bond angles

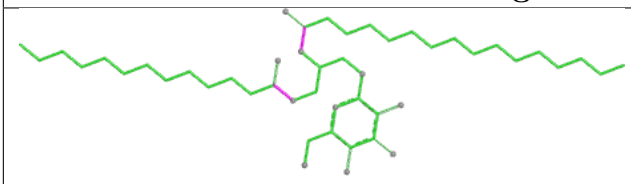


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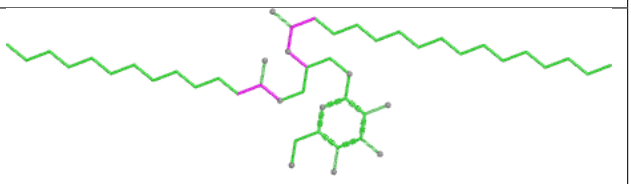


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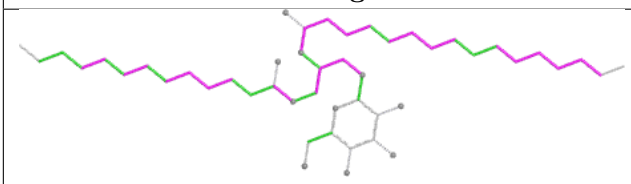
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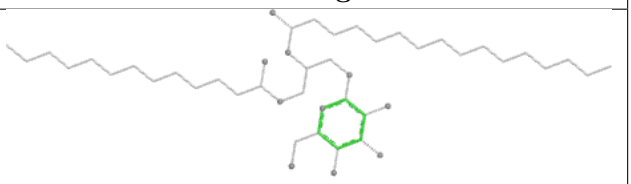
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Bond angles

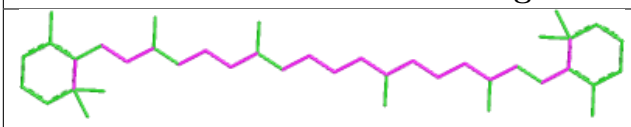


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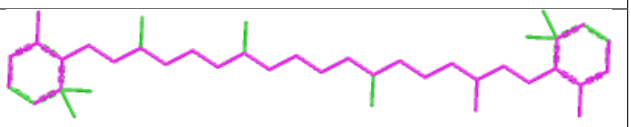


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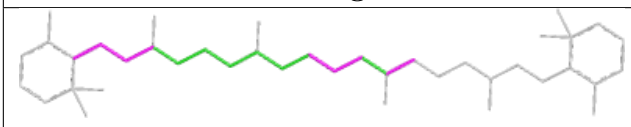
Ligand BCR T 6046



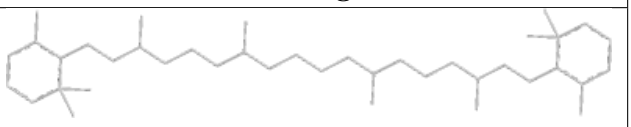
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Bond angles

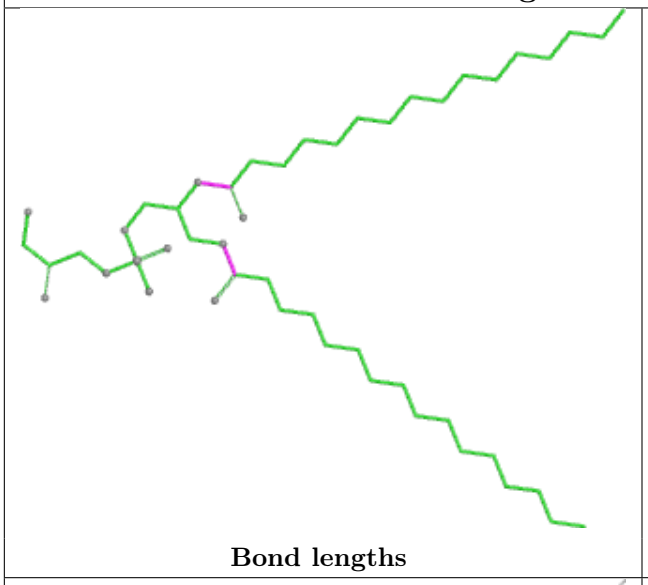


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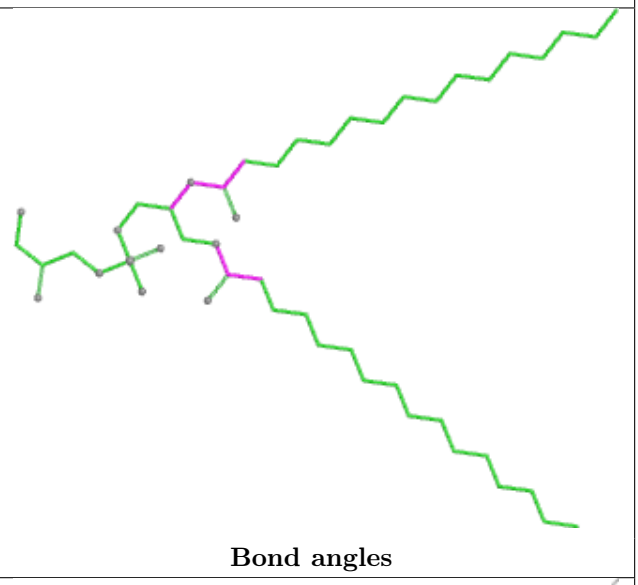


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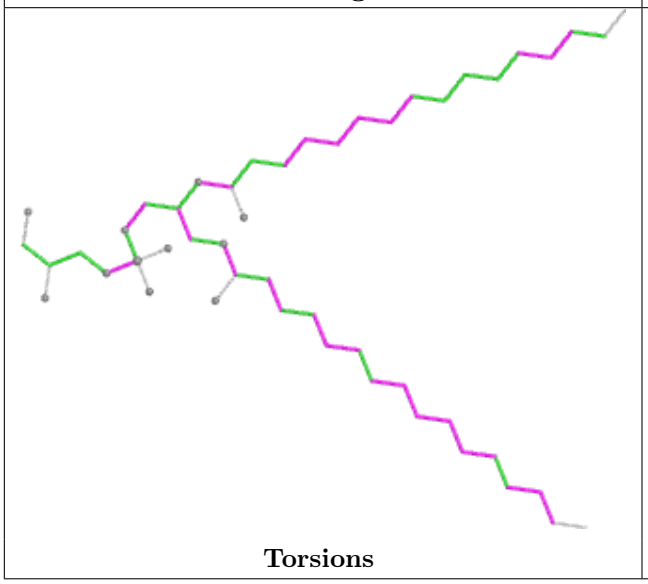
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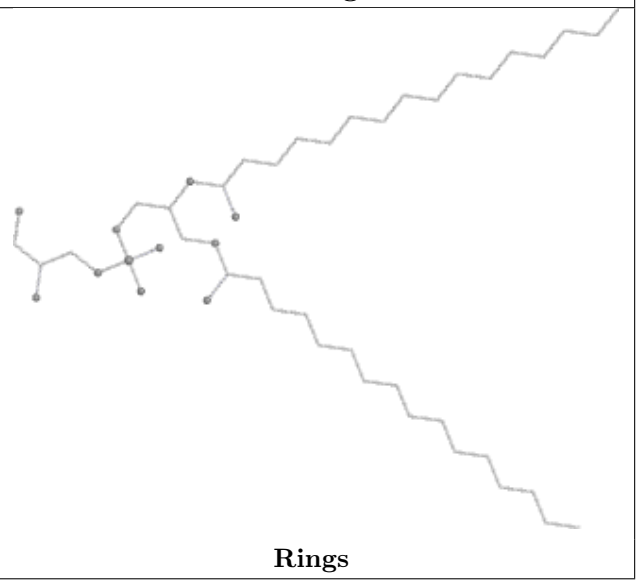
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Bond angles

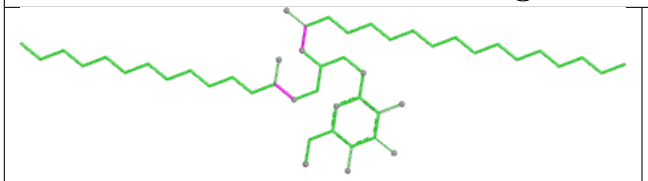


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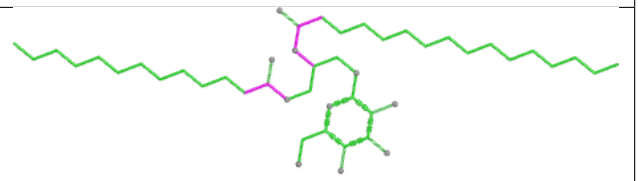


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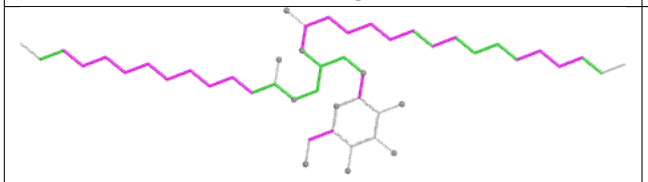
Ligand MGE J 1059



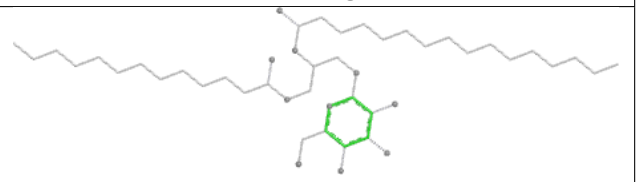
Bond lengths



Bond angles



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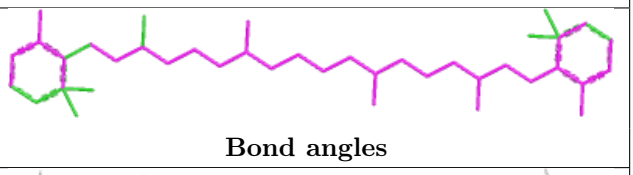


Rings

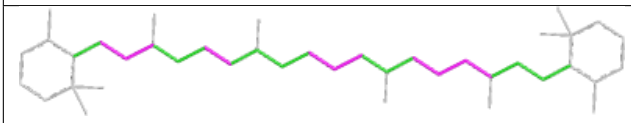
Ligand BCR a 6044



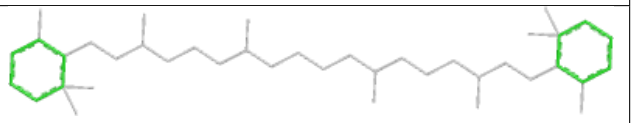
Bond lengths



Bond angles

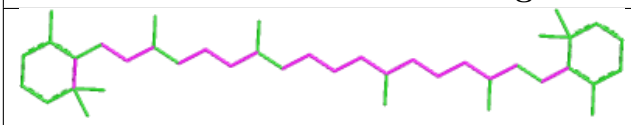


Torsions

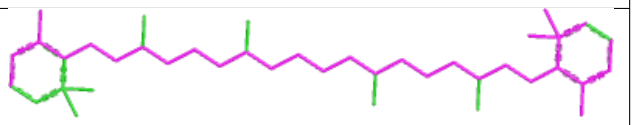


Rings

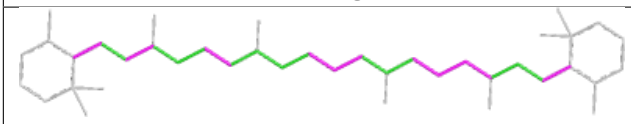
Ligand BCR Z 1053



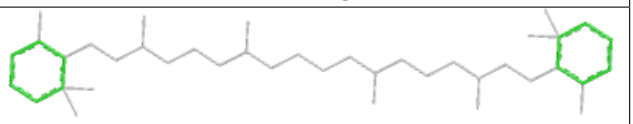
Bond lengths



Bond angles

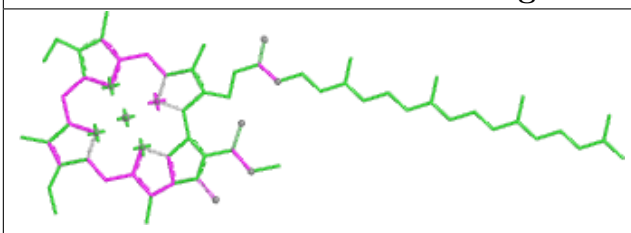


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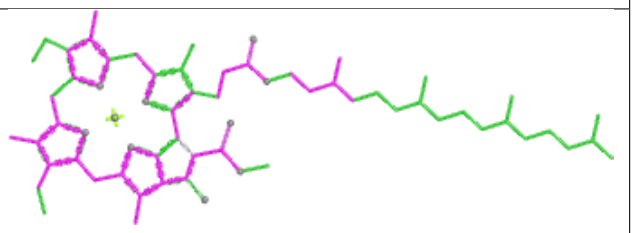


Rings

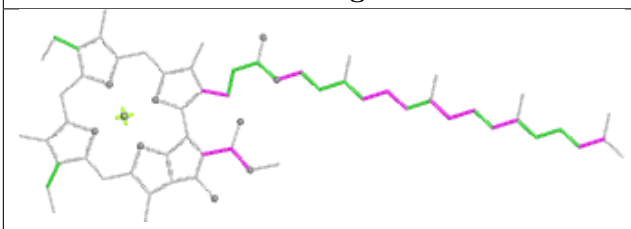
Ligand CLA b 6010



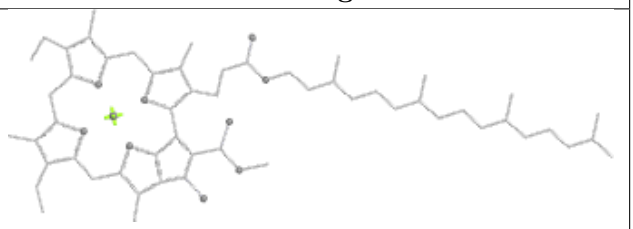
Bond lengths



Bond angles

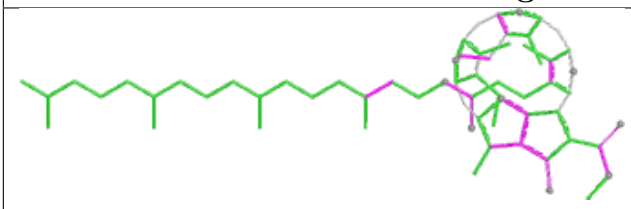


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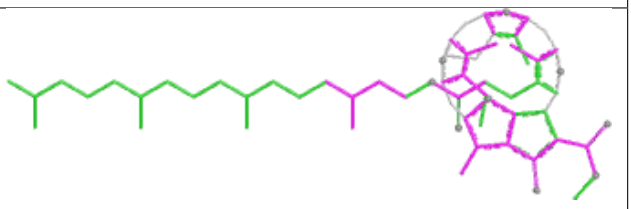


Rings

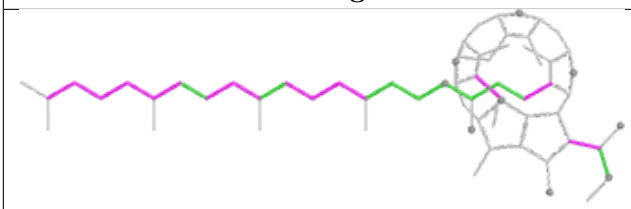
Ligand PHO a 6039



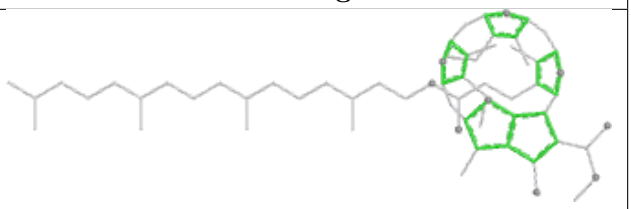
Bond lengths



Bond angles

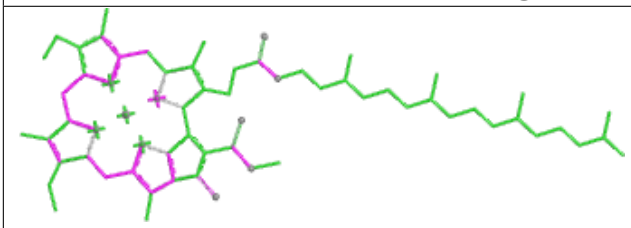


Torsions

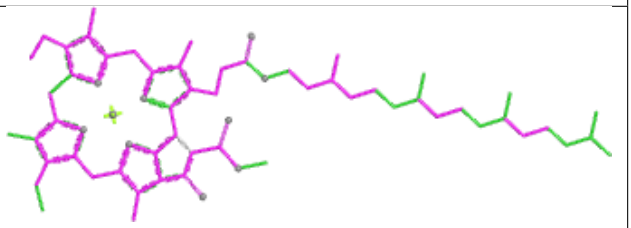


Rings

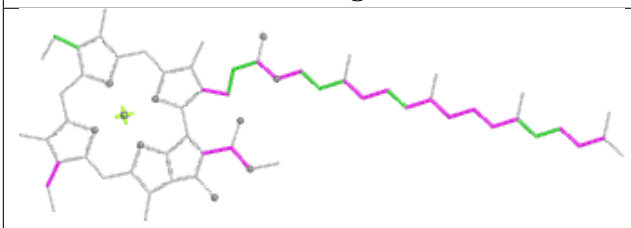
Ligand CLA B 1019



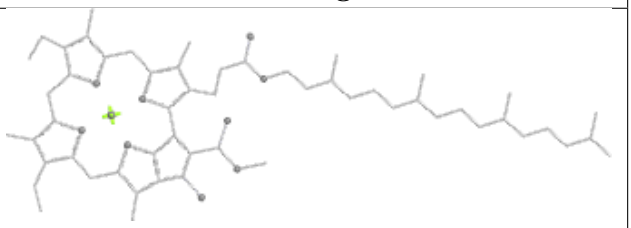
Bond lengths



Bond angles

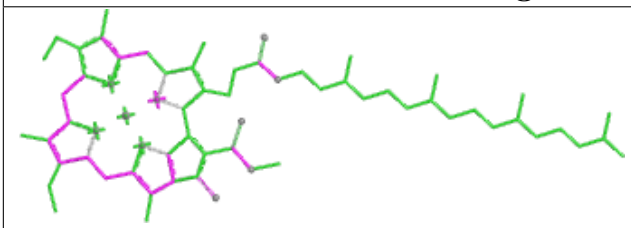


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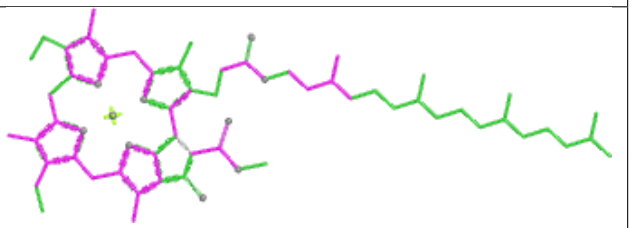


Rings

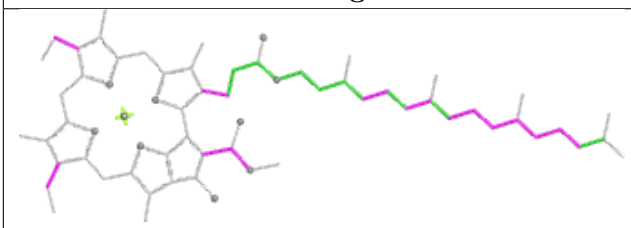
Ligand CLA B 1016



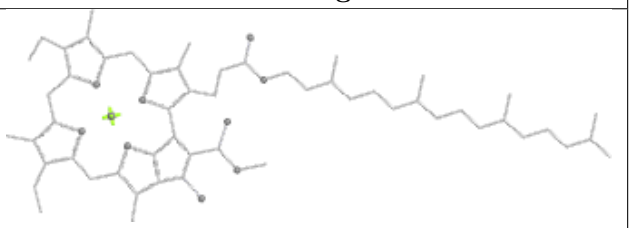
Bond lengths



Bond angles

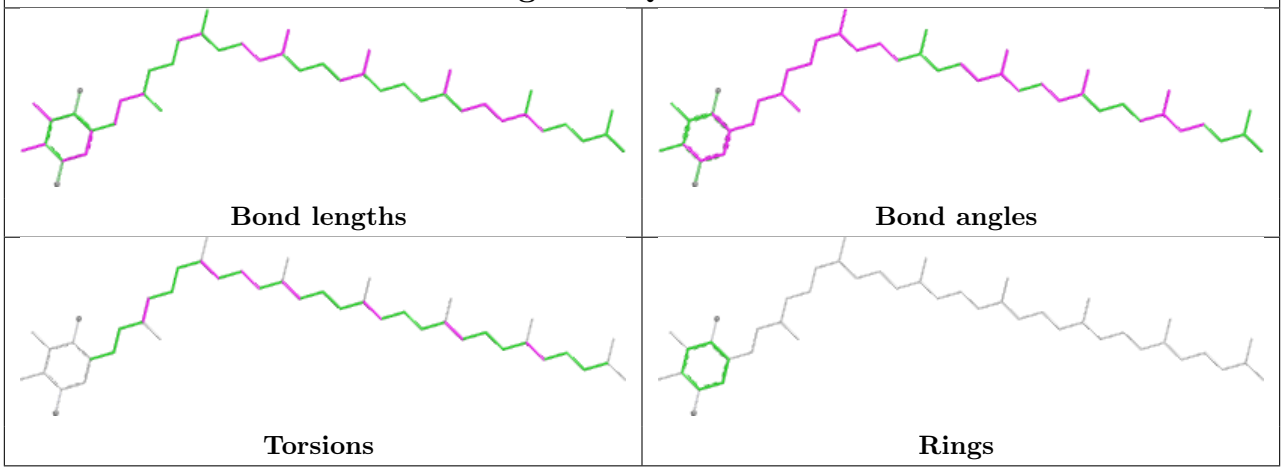


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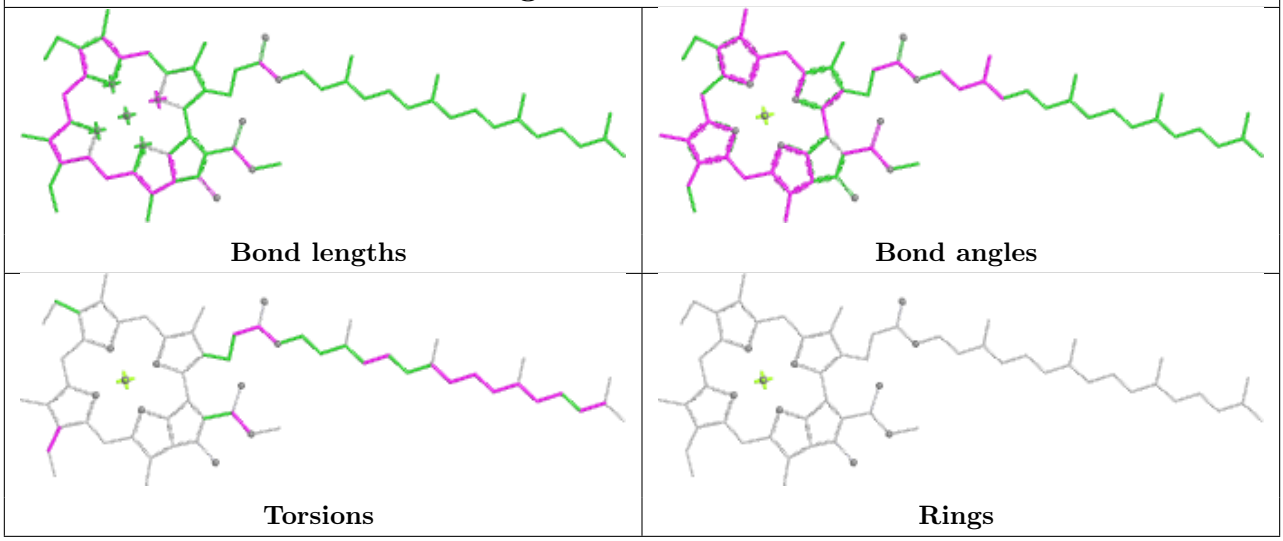


Rings

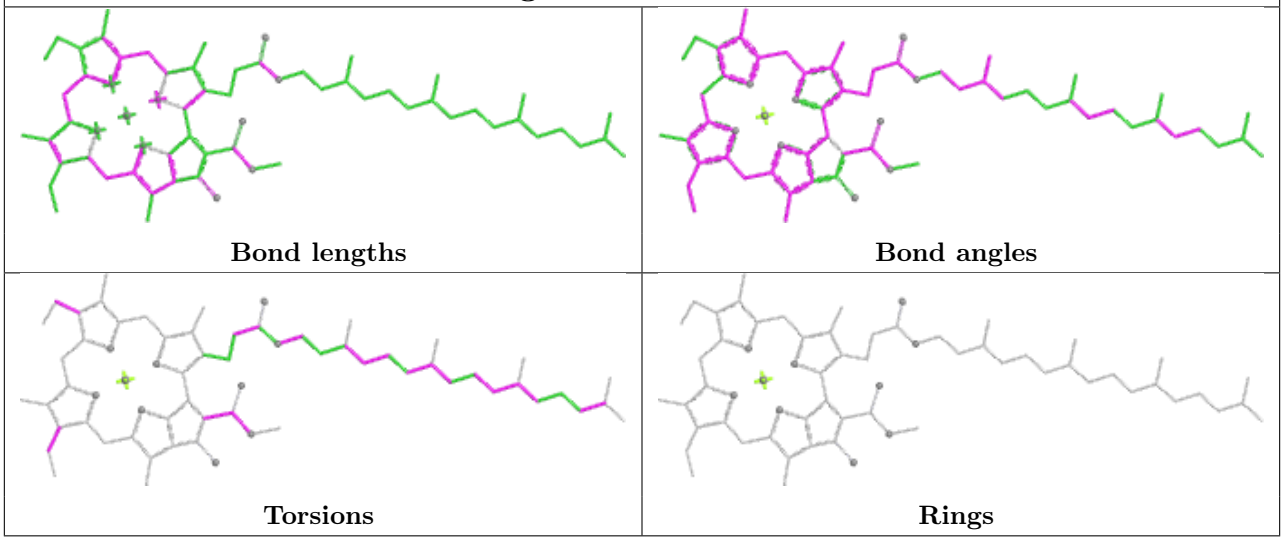
Ligand PQ9 A 1043



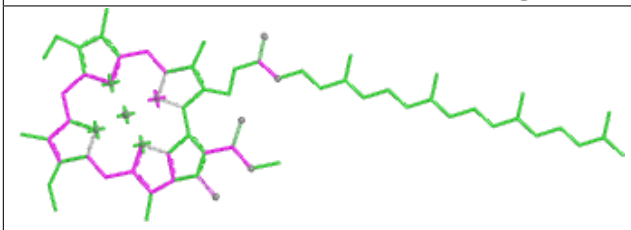
Ligand CLA b 6011



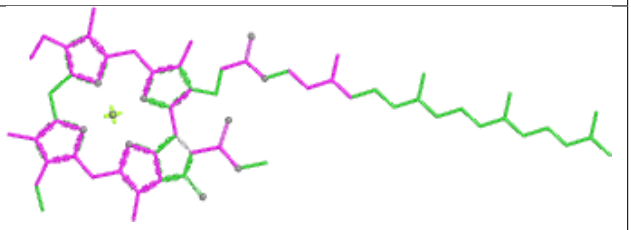
Ligand CLA b 6015



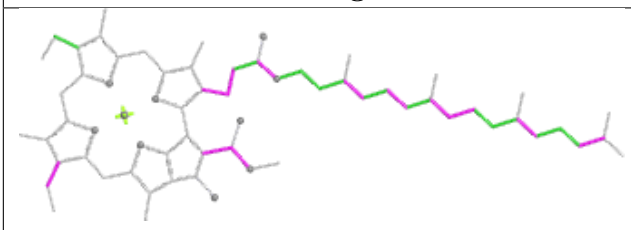
Ligand CLA B 1014



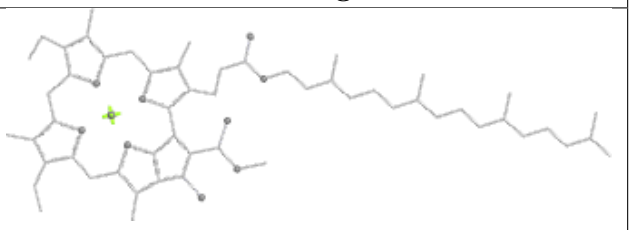
Bond lengths



Bond angles

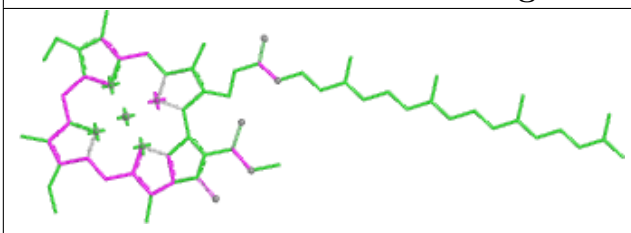


Torsions

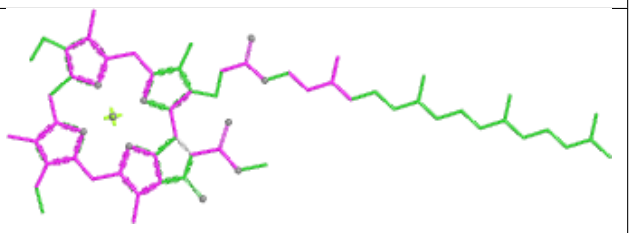


Rings

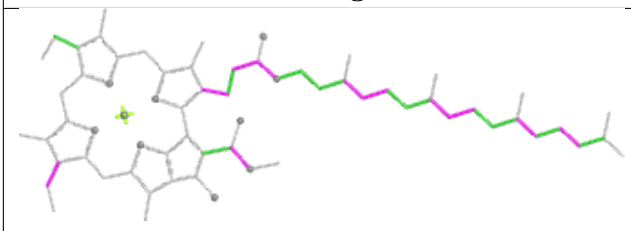
Ligand CLA b 6009



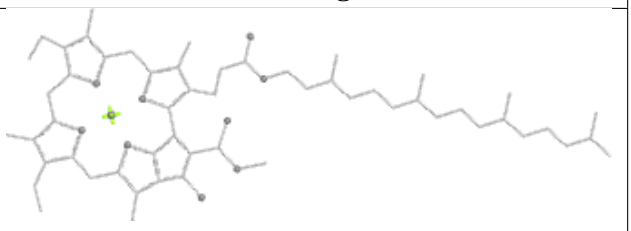
Bond lengths



Bond angles

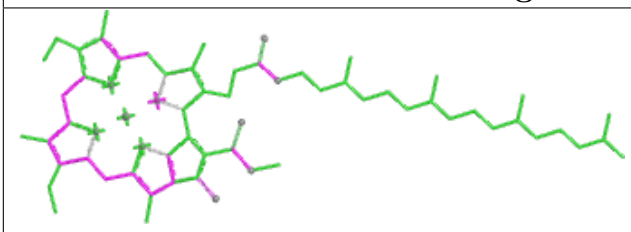


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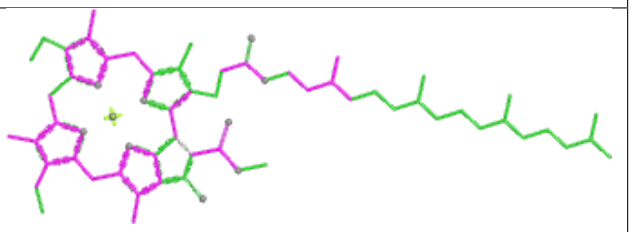


Rings

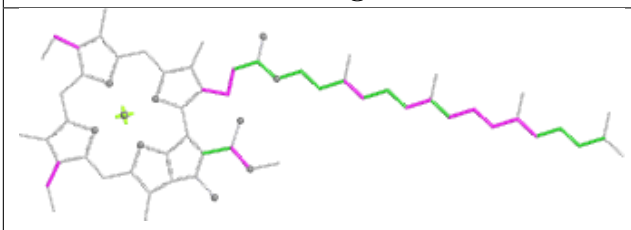
Ligand CLA C 1027



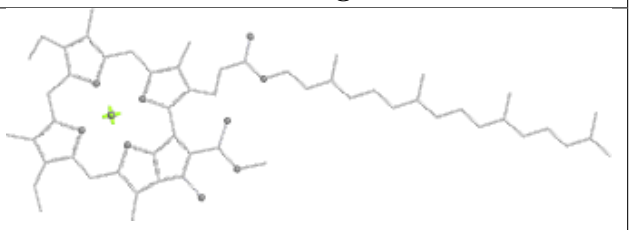
Bond lengths



Bond angles

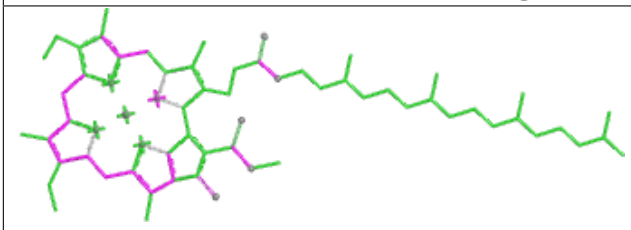


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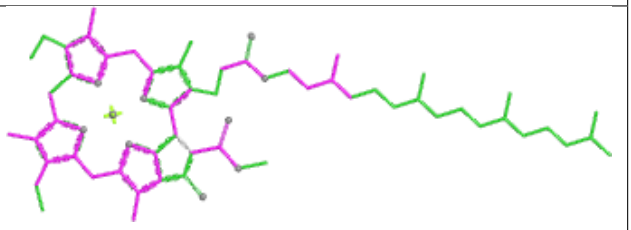


Rings

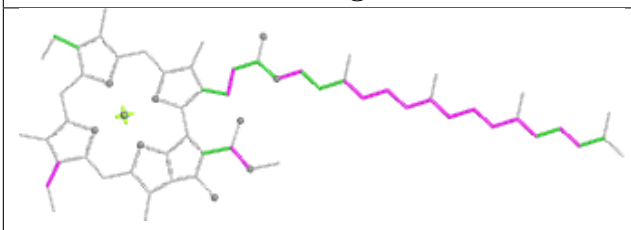
Ligand CLA B 1021



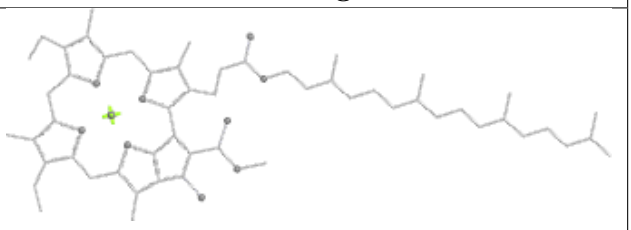
Bond lengths



Bond angles

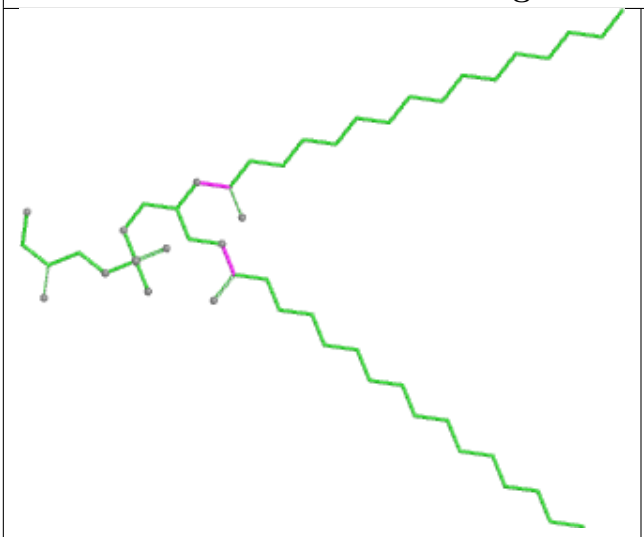


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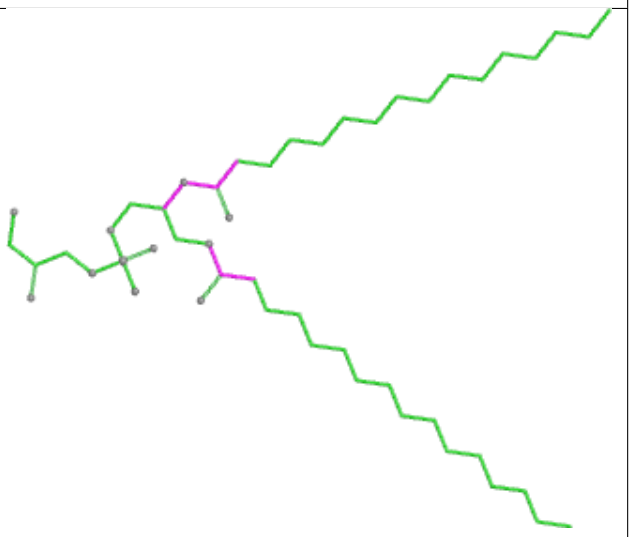


Rings

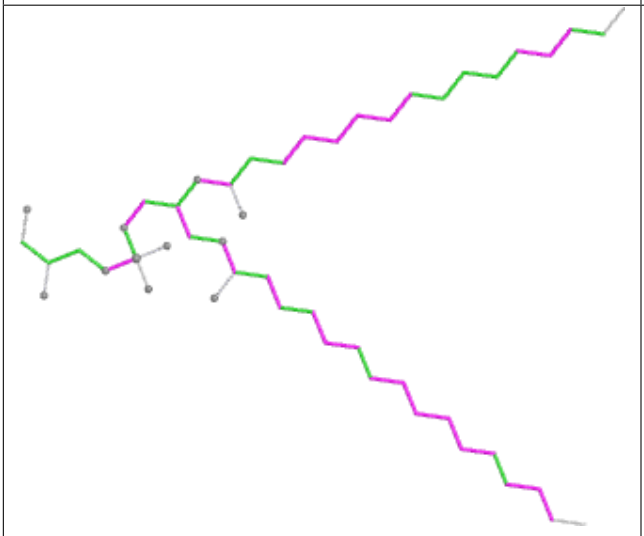
Ligand LHG A 1063



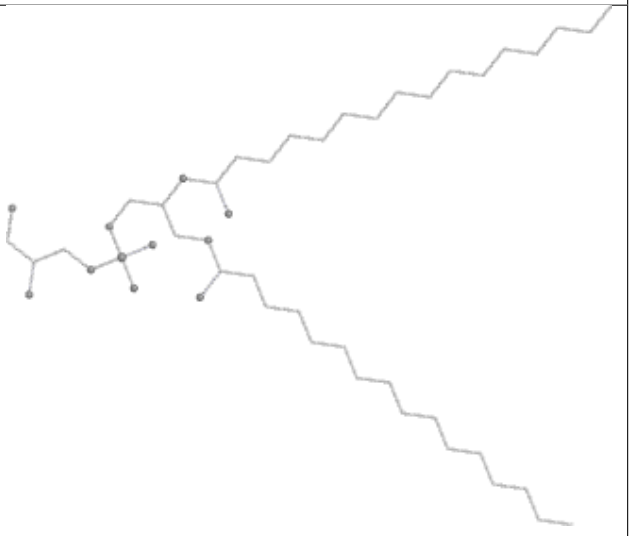
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	A	335/344 (97%)	-0.23	3 (0%)	81	58	97, 127, 162, 173	0
1	a	335/344 (97%)	-0.13	5 (1%)	72	46	101, 131, 166, 178	0
2	B	485/488 (99%)	-0.25	9 (1%)	66	42	94, 130, 157, 181	0
2	b	485/488 (99%)	-0.29	1 (0%)	91	80	102, 129, 161, 183	0
3	C	447/447 (100%)	-0.17	6 (1%)	75	50	100, 143, 170, 185	0
3	c	447/447 (100%)	-0.16	3 (0%)	84	63	102, 150, 173, 187	0
4	D	340/340 (100%)	-0.24	3 (0%)	81	58	94, 127, 165, 187	0
4	d	340/340 (100%)	-0.16	5 (1%)	72	46	92, 133, 172, 191	0
5	E	82/83 (98%)	-0.29	1 (1%)	76	51	117, 156, 184, 186	0
5	e	82/83 (98%)	-0.10	1 (1%)	76	51	126, 160, 181, 186	0
6	F	35/44 (79%)	-0.04	3 (8%)	16	14	139, 147, 160, 163	0
6	f	35/44 (79%)	-0.28	0	100	100	143, 152, 160, 163	0
7	H	64/64 (100%)	-0.35	0	100	100	119, 143, 165, 170	0
7	h	64/64 (100%)	-0.26	2 (3%)	51	32	120, 143, 164, 169	0
8	I	35/35 (100%)	-0.49	0	100	100	127, 137, 166, 173	0
8	i	35/35 (100%)	-0.53	0	100	100	124, 141, 175, 176	0
9	J	34/40 (85%)	-0.16	0	100	100	127, 142, 165, 175	0
9	j	34/40 (85%)	-0.24	0	100	100	131, 146, 172, 174	0
10	K	36/36 (100%)	-0.29	1 (2%)	55	34	132, 145, 153, 155	0
10	k	36/36 (100%)	-0.09	0	100	100	140, 151, 162, 164	0
11	L	37/37 (100%)	-0.26	0	100	100	102, 123, 178, 184	0
11	l	37/37 (100%)	-0.32	1 (2%)	56	35	110, 130, 181, 188	0
12	M	36/36 (100%)	-0.13	2 (5%)	30	20	101, 119, 171, 174	0
12	m	36/36 (100%)	-0.26	1 (2%)	55	34	100, 121, 171, 179	0

Continued on next page...

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	O	242/242 (100%)	-0.15	4 (1%) 69 43	108, 133, 165, 186	0
13	o	242/242 (100%)	-0.16	2 (0%) 82 60	114, 139, 164, 186	0
14	T	30/30 (100%)	-0.40	0 100 100	105, 124, 173, 178	0
14	t	30/30 (100%)	-0.38	0 100 100	101, 115, 173, 181	0
15	U	98/98 (100%)	-0.38	0 100 100	108, 123, 143, 158	0
15	u	98/98 (100%)	-0.34	0 100 100	112, 128, 143, 167	0
16	V	137/137 (100%)	-0.13	5 (3%) 46 29	104, 131, 160, 170	0
16	v	137/137 (100%)	-0.20	0 100 100	114, 145, 165, 176	0
17	X	34/34 (100%)	-0.11	0 100 100	148, 155, 164, 170	0
17	x	34/34 (100%)	-0.28	1 (2%) 53 33	151, 159, 169, 175	0
18	Y	28/28 (100%)	-0.18	0 100 100	164, 178, 189, 192	0
18	y	28/28 (100%)	0.06	0 100 100	170, 181, 191, 196	0
19	N	0/24	-	-	-	-
19	n	0/24	-	-	-	-
20	Z	62/62 (100%)	-0.16	0 100 100	138, 161, 180, 186	0
20	z	62/62 (100%)	-0.24	0 100 100	144, 164, 184, 187	0
All	All	5194/5298 (98%)	-0.21	59 (1%) 78 53	92, 136, 172, 196	0

All (59) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
6	F	39	ALA	5.8
1	a	5279	ARG	5.8
4	D	95	PRO	5.5
11	l	5017	LEU	4.5
1	A	279	ARG	4.4
12	m	5023	ILE	4.3
3	C	365	TRP	4.1
5	E	14	ILE	3.8
1	a	5295	PHE	3.8
4	d	5314	PHE	3.8
2	B	470	GLY	3.4
2	B	471	ALA	3.3
3	c	5127	PHE	3.3
2	B	187	PRO	3.0
3	C	265	ILE	3.0
1	a	5294	ALA	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	188	ALA	2.8
12	M	3	VAL	2.8
3	C	97	TRP	2.7
2	B	69	LEU	2.6
13	o	5061	SER	2.6
4	d	5183	LEU	2.6
4	d	5110	LEU	2.5
3	C	134	ILE	2.5
13	O	59	ASP	2.4
10	K	33	PHE	2.4
3	c	5404	LEU	2.4
5	e	5021	VAL	2.4
13	o	5049	ASP	2.4
3	c	5238	ILE	2.4
6	F	42	PHE	2.4
7	h	5055	LEU	2.4
13	O	78	VAL	2.3
16	V	37	PRO	2.3
16	V	38	LEU	2.3
2	B	445	THR	2.3
1	a	5075	ASN	2.3
13	O	177	TYR	2.3
7	h	5056	ASP	2.3
4	d	5247	VAL	2.3
16	V	95	ILE	2.2
4	D	136	VAL	2.2
1	a	5335	ASN	2.2
2	B	166	MET	2.2
2	b	5184	PRO	2.2
2	B	321	LYS	2.2
3	C	264	PHE	2.2
4	d	5214	HIS	2.1
16	V	82	THR	2.1
2	B	379	ALA	2.1
12	M	2	GLU	2.1
2	B	207	ILE	2.1
6	F	43	ILE	2.1
13	O	142	ILE	2.1
3	C	137	PRO	2.1
16	V	64	ALA	2.1
1	A	185	VAL	2.0
17	x	5021	ILE	2.0

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Mol	Chain	Res	Type	RSRZ
4	D	24	ARG	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

There are no oligosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
27	LHG	a	6063	49/49	0.61	0.18	186,196,200,200	0
27	LHG	A	1063	49/49	0.62	0.19	181,187,194,195	0
23	CLA	C	1034	65/65	0.68	0.20	134,147,172,174	0
30	DGD	C	1057	66/66	0.69	0.18	125,140,187,193	0
26	BCR	z	6053	40/40	0.70	0.14	159,176,186,187	0
23	CLA	c	6034	65/65	0.70	0.18	87,162,181,181	0
23	CLA	c	6027	65/65	0.72	0.19	178,195,198,200	0
26	BCR	b	6047	40/40	0.72	0.17	114,127,145,147	0
23	CLA	c	6037	65/65	0.73	0.13	184,188,191,200	0
23	CLA	B	1009	65/65	0.73	0.15	119,178,184,185	0
26	BCR	B	1047	40/40	0.74	0.15	101,136,157,157	0
26	BCR	d	6050	40/40	0.74	0.15	149,160,166,167	0
23	CLA	b	6009	65/65	0.76	0.13	160,177,200,200	0
26	BCR	h	6049	40/40	0.76	0.17	156,175,191,192	0
23	CLA	C	1037	65/65	0.77	0.15	180,185,188,200	0
26	BCR	b	6045	40/40	0.78	0.17	145,156,167,168	0
29	MGE	d	6059	48/48	0.78	0.15	164,168,198,200	0
26	BCR	a	6044	40/40	0.78	0.21	154,160,163,166	0
26	BCR	A	1044	40/40	0.79	0.17	147,156,158,159	0
30	DGD	C	1056	66/66	0.79	0.16	155,171,183,188	0
26	BCR	D	1050	40/40	0.79	0.15	149,153,161,162	0
23	CLA	C	1032	65/65	0.80	0.19	153,166,174,176	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
26	BCR	b	6048	40/40	0.80	0.16	141,147,158,159	0
30	DGD	c	6057	66/66	0.80	0.13	128,149,183,184	0
23	CLA	B	1024	65/65	0.81	0.13	105,177,179,180	0
26	BCR	t	1046	40/40	0.82	0.14	144,156,163,163	0
23	CLA	c	6032	65/65	0.82	0.15	144,175,181,182	0
23	CLA	C	1025	65/65	0.82	0.20	131,170,180,200	0
30	DGD	c	6056	66/66	0.82	0.14	170,175,181,183	0
26	BCR	Z	1053	40/40	0.82	0.16	141,166,178,178	0
23	CLA	b	6024	65/65	0.83	0.14	172,183,186,187	0
29	MGE	d	6062	48/48	0.83	0.17	130,155,167,168	0
29	MGE	J	1059	48/48	0.83	0.12	152,158,185,186	0
23	CLA	b	6014	65/65	0.84	0.14	163,171,179,200	0
26	BCR	B	1045	40/40	0.84	0.16	146,156,169,170	0
23	CLA	C	1027	65/65	0.84	0.15	167,183,190,200	0
26	BCR	B	1048	40/40	0.84	0.14	148,155,163,163	0
24	PHO	d	6038	64/64	0.84	0.17	136,147,150,150	0
26	BCR	T	6046	40/40	0.84	0.15	140,149,154,157	0
29	MGE	d	6061	48/48	0.85	0.19	141,152,165,169	0
23	CLA	c	6025	65/65	0.85	0.16	145,170,178,200	0
26	BCR	c	6054	40/40	0.85	0.18	174,177,183,183	0
23	CLA	d	6008	65/65	0.85	0.17	172,175,185,200	0
26	BCR	K	1051	40/40	0.85	0.23	175,179,182,183	0
23	CLA	c	6031	65/65	0.85	0.15	173,182,185,186	0
23	CLA	c	6033	65/65	0.86	0.16	84,142,180,180	0
25	PQ9	d	6042	45/45	0.86	0.25	137,146,167,168	0
23	CLA	B	1014	65/65	0.86	0.12	123,169,174,176	0
29	MGE	B	1060	48/48	0.86	0.18	151,170,182,184	0
23	CLA	c	6036	65/65	0.87	0.13	177,180,184,200	0
29	MGE	L	1061	48/48	0.87	0.20	141,144,154,155	0
29	MGE	b	6060	48/48	0.87	0.21	158,178,191,192	0
23	CLA	B	1022	65/65	0.87	0.12	135,155,159,161	0
26	BCR	k	6052	40/40	0.87	0.24	158,179,200,200	0
23	CLA	C	1033	65/65	0.87	0.14	117,131,162,164	0
23	CLA	b	6021	65/65	0.87	0.14	125,132,157,160	0
25	PQ9	A	1043	45/45	0.87	0.34	138,151,171,171	30
26	BCR	H	1049	40/40	0.87	0.16	155,162,188,188	0
23	CLA	c	6030	65/65	0.87	0.12	100,154,174,175	0
23	CLA	C	1028	65/65	0.88	0.14	141,154,159,168	0
23	CLA	c	6029	65/65	0.88	0.15	151,170,173,200	0
23	CLA	b	6022	65/65	0.88	0.10	133,148,156,157	0
23	CLA	b	6013	65/65	0.88	0.15	139,154,161,172	0
23	CLA	a	6003	65/65	0.88	0.18	121,130,145,193	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
23	CLA	b	6023	65/65	0.89	0.14	149,183,189,190	0
23	CLA	c	6035	65/65	0.89	0.18	170,173,177,200	0
23	CLA	C	1036	65/65	0.89	0.12	162,166,179,200	0
23	CLA	b	6011	65/65	0.89	0.14	156,159,165,170	0
26	BCR	K	1052	40/40	0.89	0.25	153,171,178,179	0
23	CLA	b	6012	65/65	0.89	0.17	146,153,159,198	0
24	PHO	A	1038	64/64	0.89	0.14	122,144,147,148	0
24	PHO	a	6039	64/64	0.89	0.15	151,165,169,170	0
23	CLA	c	6028	65/65	0.89	0.14	147,157,160,162	0
23	CLA	C	1029	65/65	0.89	0.13	146,156,159,200	0
25	PQ9	a	6043	45/45	0.89	0.31	135,149,185,185	30
23	CLA	C	1026	65/65	0.89	0.13	128,133,146,149	0
23	CLA	b	6015	65/65	0.89	0.15	137,149,155,164	0
30	DGD	c	6055	66/66	0.89	0.15	147,153,165,166	0
23	CLA	a	6006	65/65	0.89	0.11	140,145,197,200	0
23	CLA	a	6007	65/65	0.89	0.17	143,149,179,183	0
30	DGD	h	6058	66/66	0.89	0.19	140,153,163,170	0
31	HEM	e	6040	43/43	0.89	0.16	171,184,185,185	0
23	CLA	A	1007	65/65	0.90	0.13	137,141,171,183	0
23	CLA	B	1015	65/65	0.90	0.12	133,146,153,175	0
23	CLA	B	1016	65/65	0.90	0.12	87,143,150,150	0
23	CLA	A	1003	65/65	0.90	0.18	122,129,147,149	0
30	DGD	C	1055	66/66	0.90	0.19	131,140,147,152	0
23	CLA	D	1008	65/65	0.90	0.15	159,167,182,200	0
23	CLA	B	1023	65/65	0.90	0.15	155,179,185,200	0
30	DGD	H	1058	66/66	0.90	0.18	131,150,165,166	0
23	CLA	B	1013	65/65	0.90	0.14	131,157,165,168	0
23	CLA	d	6005	65/65	0.90	0.12	90,100,117,118	0
29	MGE	D	1062	48/48	0.90	0.17	129,148,165,165	0
23	CLA	b	6016	65/65	0.90	0.14	76,148,153,155	0
23	CLA	b	6020	65/65	0.90	0.17	75,148,170,173	0
23	CLA	B	1020	65/65	0.91	0.15	113,151,177,179	0
23	CLA	C	1030	65/65	0.91	0.11	92,145,175,176	0
23	CLA	C	1031	65/65	0.91	0.17	164,170,179,200	0
23	CLA	A	1006	65/65	0.91	0.14	119,124,190,192	0
31	HEM	E	1040	43/43	0.91	0.21	141,181,194,198	0
26	BCR	C	1054	40/40	0.91	0.15	158,165,169,170	0
23	CLA	b	6018	65/65	0.92	0.15	142,154,162,165	0
23	CLA	b	6019	65/65	0.92	0.10	124,150,155,193	0
23	CLA	B	1021	65/65	0.92	0.10	104,129,142,146	0
23	CLA	H	1017	65/65	0.92	0.12	116,169,174,200	0
23	CLA	B	1012	65/65	0.92	0.14	148,152,159,176	0

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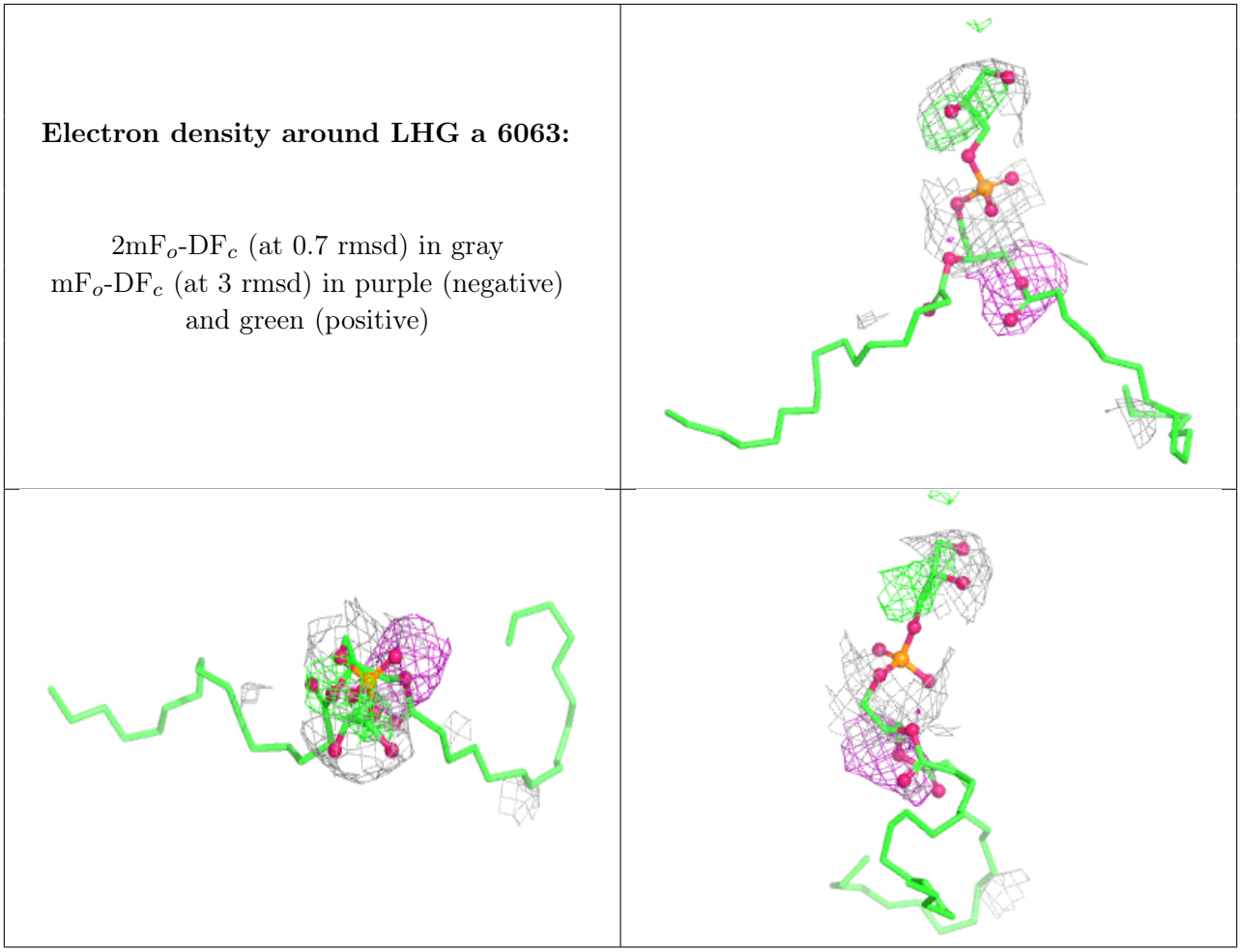
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
24	PHO	A	1039	64/64	0.92	0.13	149,151,160,161	0
23	CLA	C	1035	65/65	0.92	0.18	155,167,173,200	0
23	CLA	B	1019	65/65	0.92	0.09	121,156,158,200	0
23	CLA	B	1010	65/65	0.92	0.15	115,164,166,169	0
26	BCR	k	6051	40/40	0.92	0.15	187,193,197,197	0
23	CLA	c	6026	65/65	0.92	0.11	140,144,157,170	0
23	CLA	D	1004	65/65	0.93	0.16	101,131,139,142	0
23	CLA	D	1005	65/65	0.93	0.10	101,108,116,157	0
23	CLA	b	6017	65/65	0.93	0.12	118,165,168,200	0
23	CLA	B	1011	65/65	0.93	0.13	144,159,161,166	0
28	BR	a	6065	1/1	0.93	0.09	164,164,164,164	0
28	BR	d	6064	1/1	0.93	0.07	130,130,130,130	0
25	PQ9	D	1042	45/45	0.94	0.18	131,145,154,155	0
23	CLA	d	6004	65/65	0.94	0.14	111,128,134,134	0
23	CLA	B	1018	65/65	0.94	0.13	111,158,165,168	0
28	BR	A	1064	1/1	0.94	0.10	113,113,113,113	0
23	CLA	b	6010	65/65	0.95	0.12	93,165,169,170	0
22	FE2	a	6002	1/1	0.95	0.04	149,149,149,149	0
28	BR	A	1065	1/1	0.96	0.06	158,158,158,158	0
31	HEM	v	6041	43/43	0.96	0.14	99,135,139,140	0
22	FE2	A	1002	1/1	0.97	0.09	125,125,125,125	0
31	HEM	V	1041	43/43	0.97	0.16	81,131,132,133	0
21	OEC	a	6001	5/9	0.98	0.11	87,94,106,107	0
21	OEC	A	1001	5/9	0.99	0.09	79,94,115,119	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

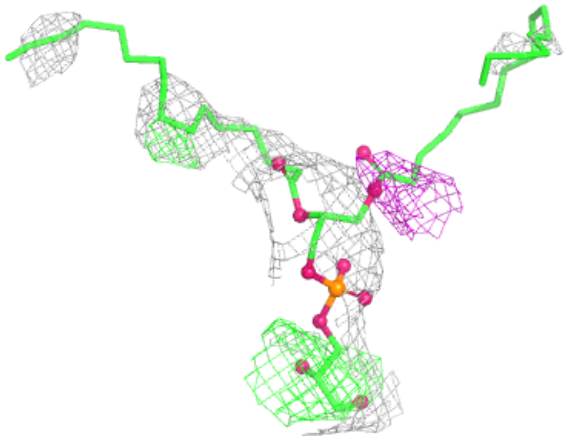
Electron density around LHG a 6063:

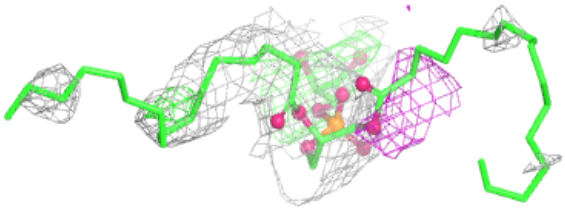
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

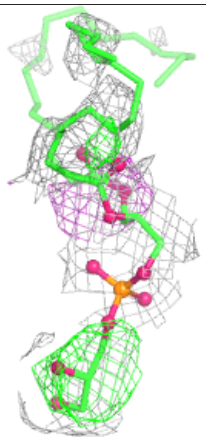


Electron density around LHG A 1063:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

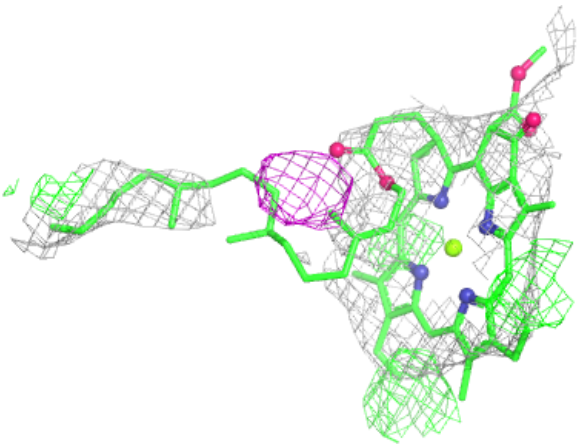


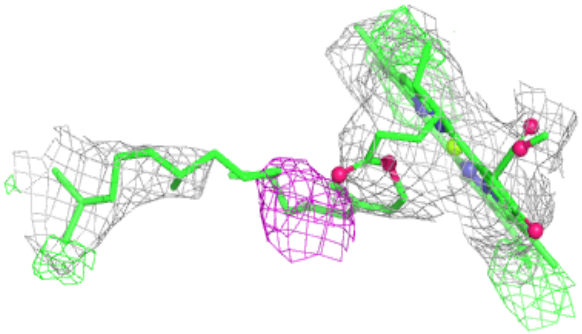


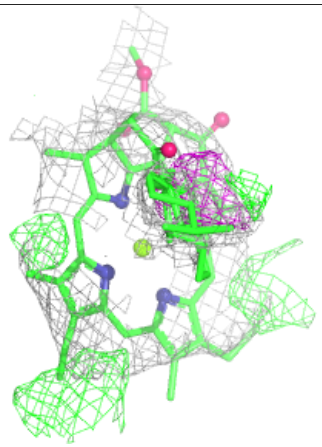


Electron density around CLA C 1034:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

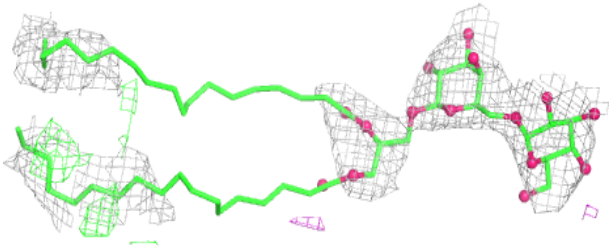


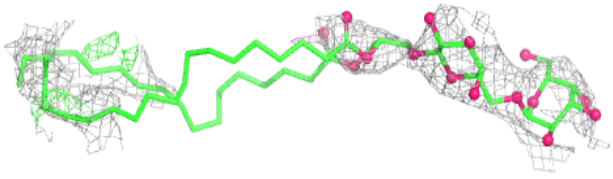


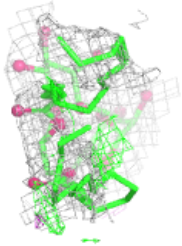


Electron density around DGD C 1057:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

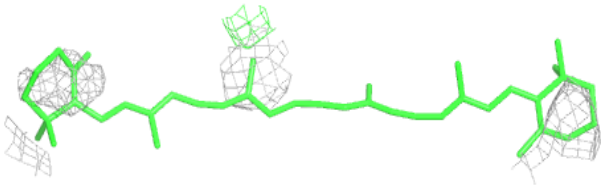


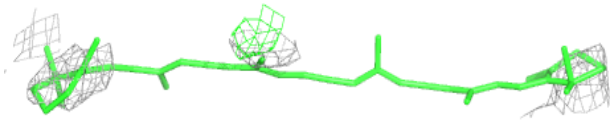


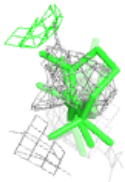


Electron density around BCR z 6053:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

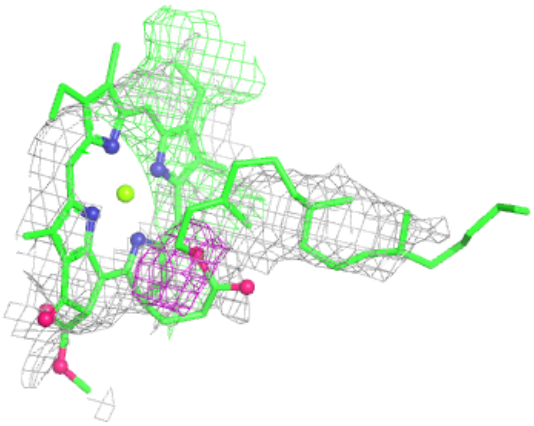


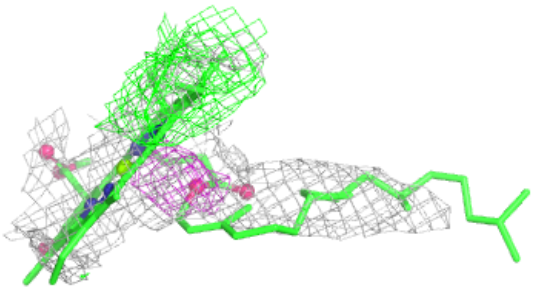


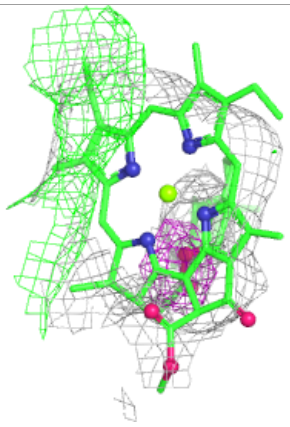


Electron density around CLA c 6034:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

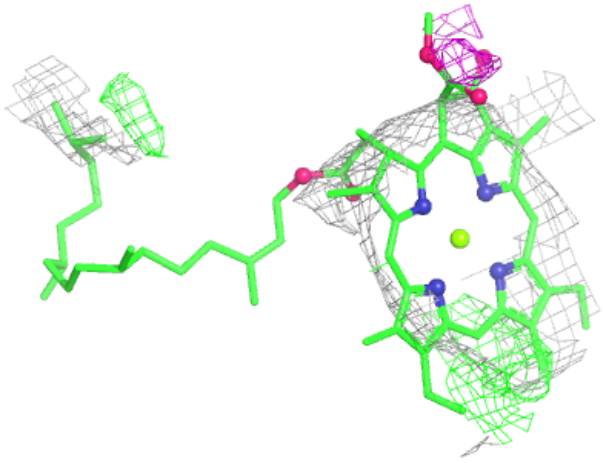


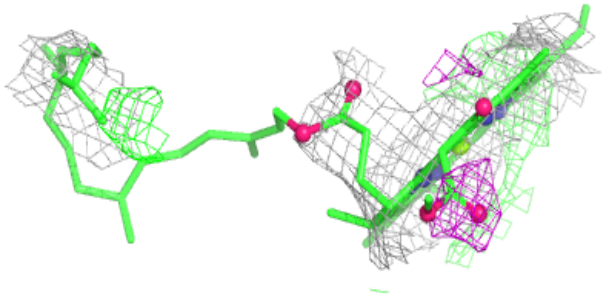


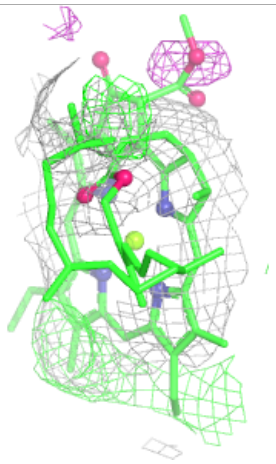


Electron density around CLA c 6027:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

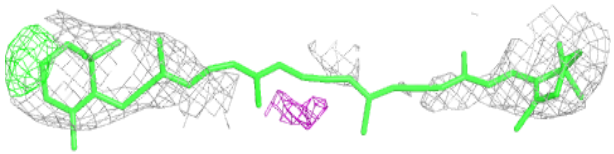


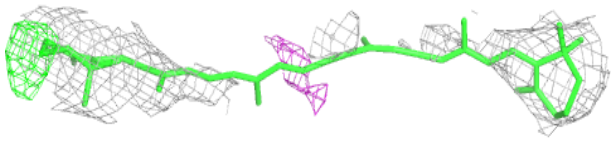


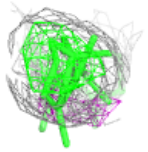


Electron density around BCR b 6047:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

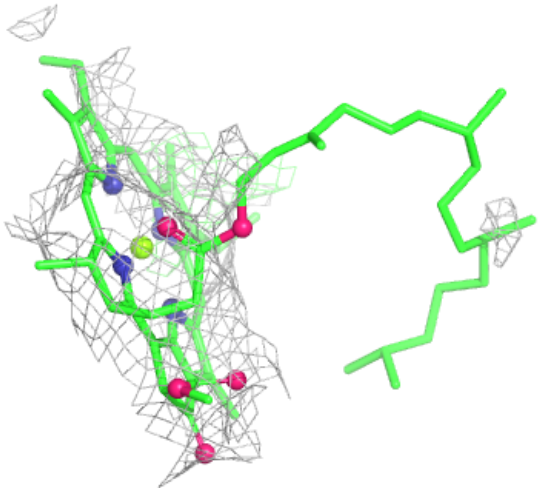


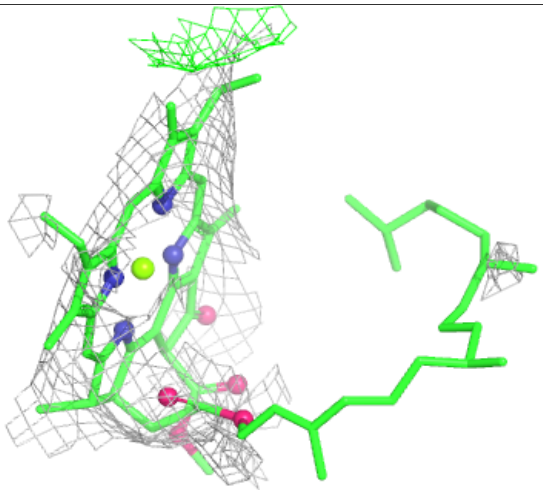


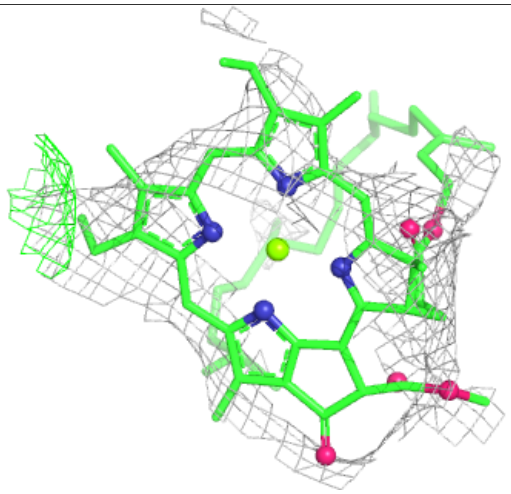


Electron density around CLA c 6037:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

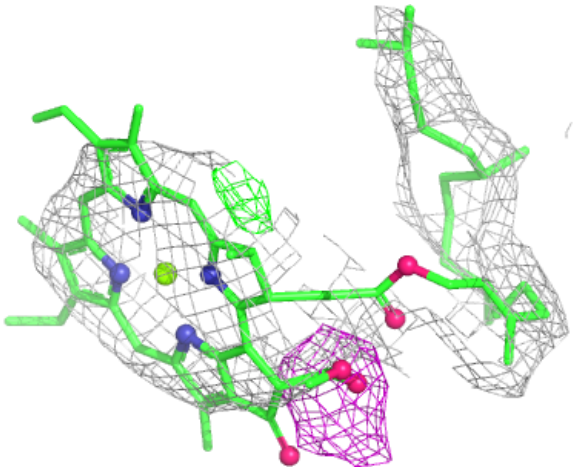


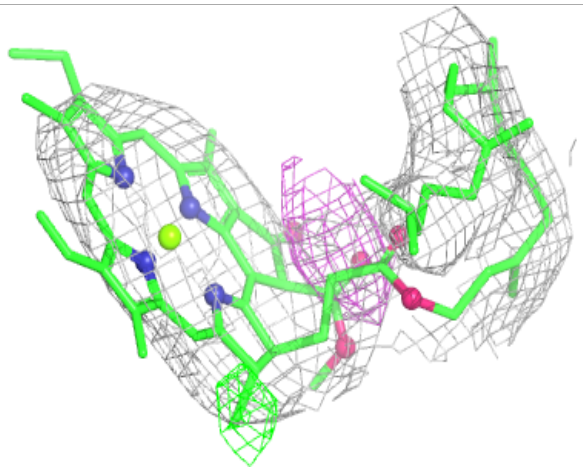


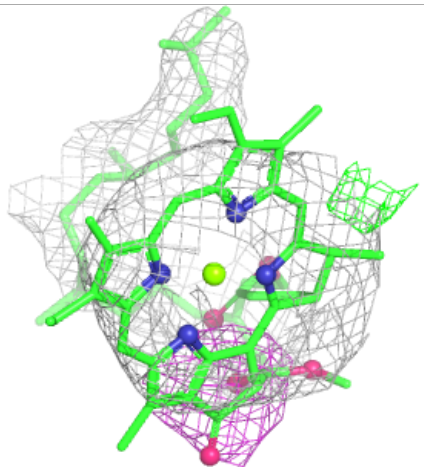


Electron density around CLA B 1009:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

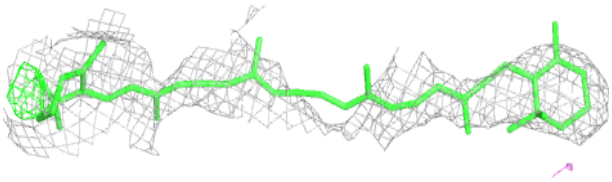


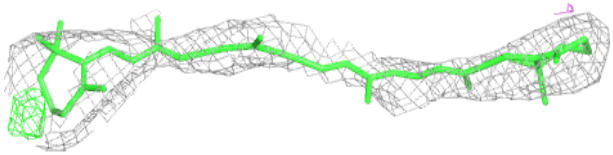


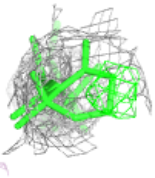


Electron density around BCR B 1047:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

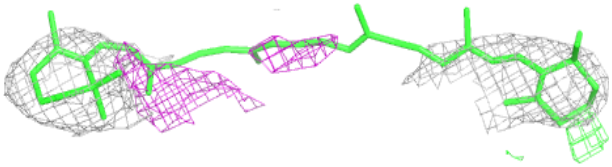


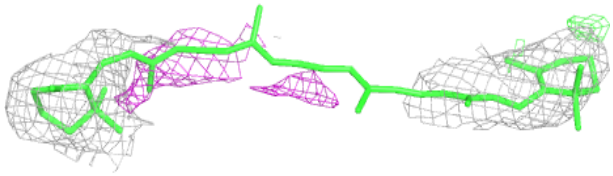


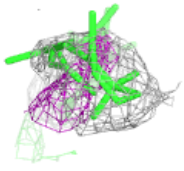


Electron density around BCR d 6050:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

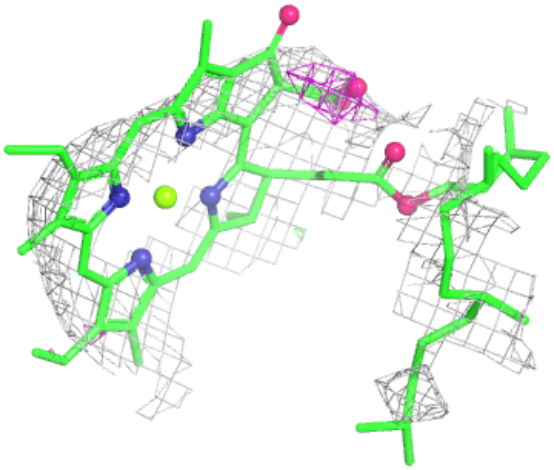


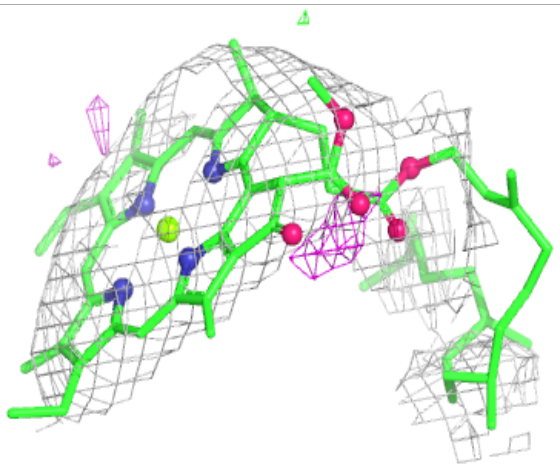


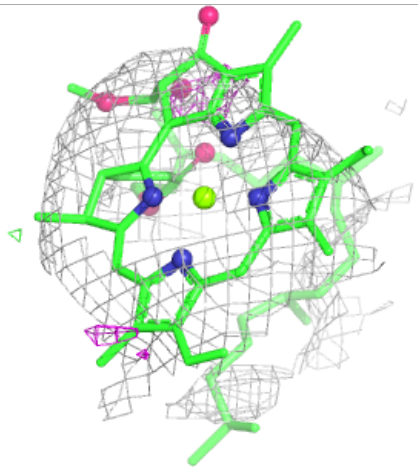


Electron density around CLA b 6009:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

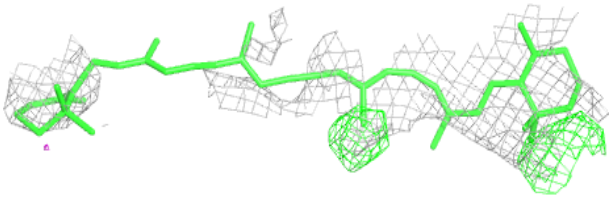


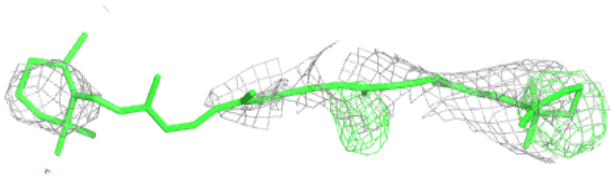


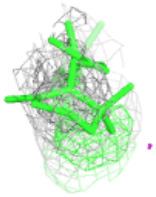


Electron density around BCR h 6049:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

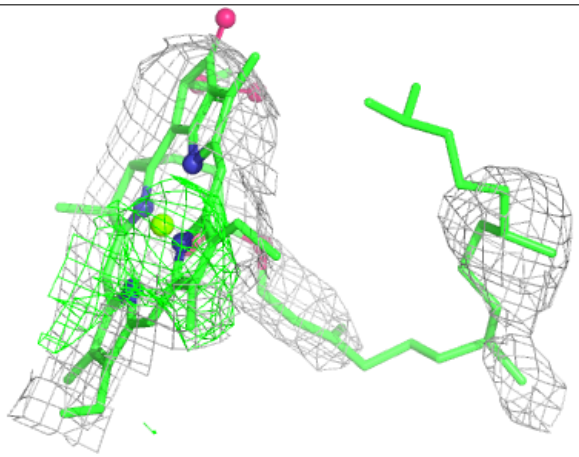


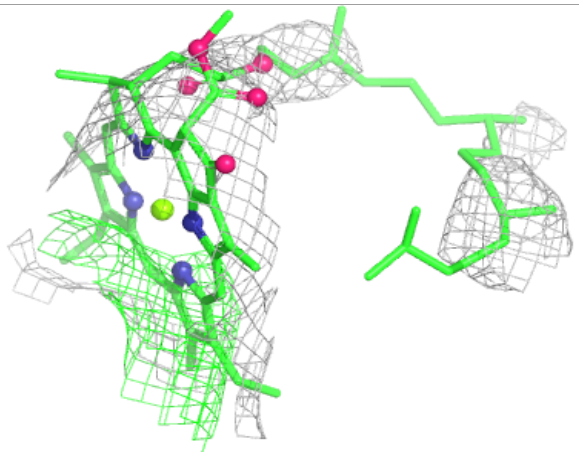


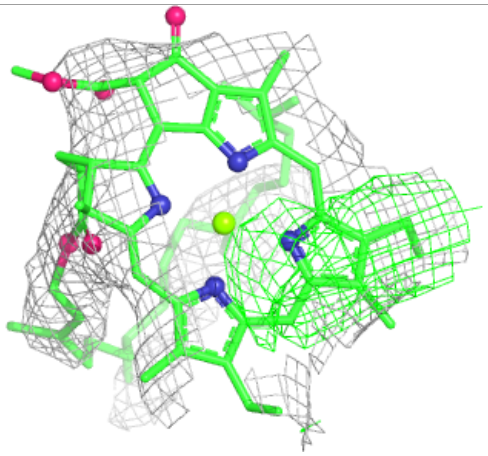


Electron density around CLA C 1037:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

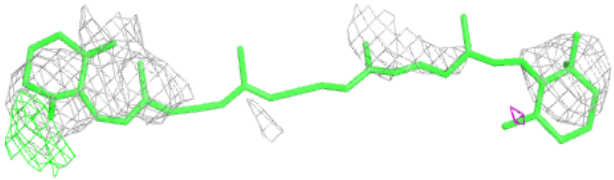


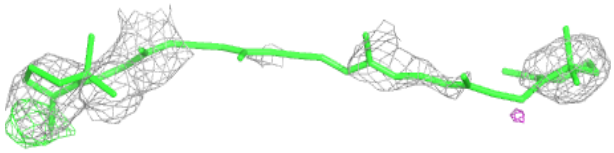


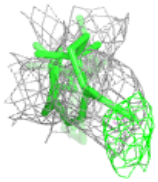


Electron density around BCR b 6045:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

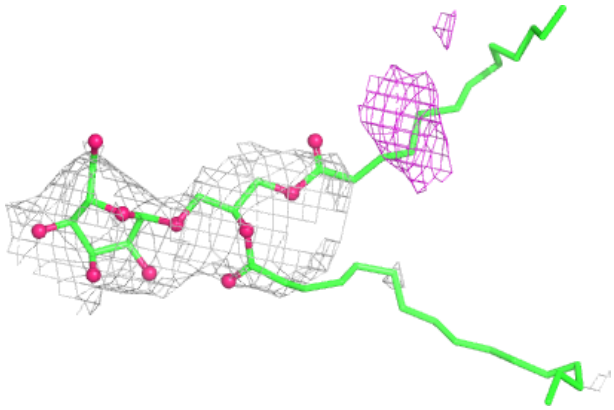


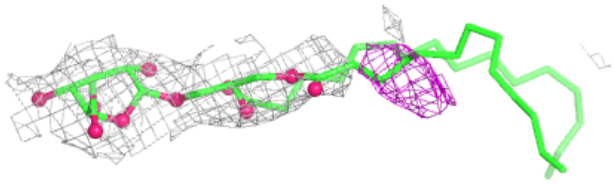




Electron density around MGE d 6059:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

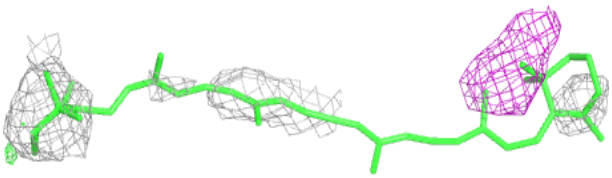


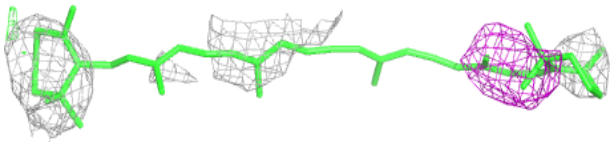


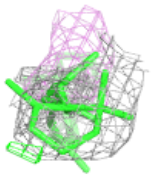


Electron density around BCR a 6044:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

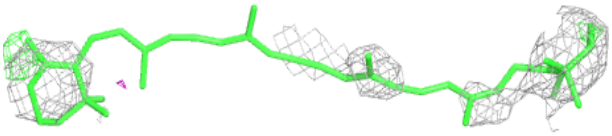


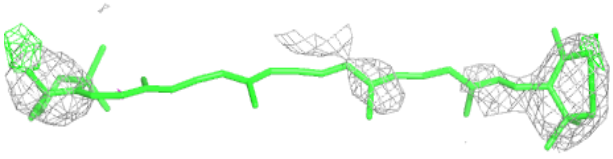


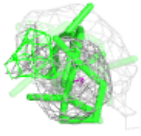


Electron density around BCR A 1044:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

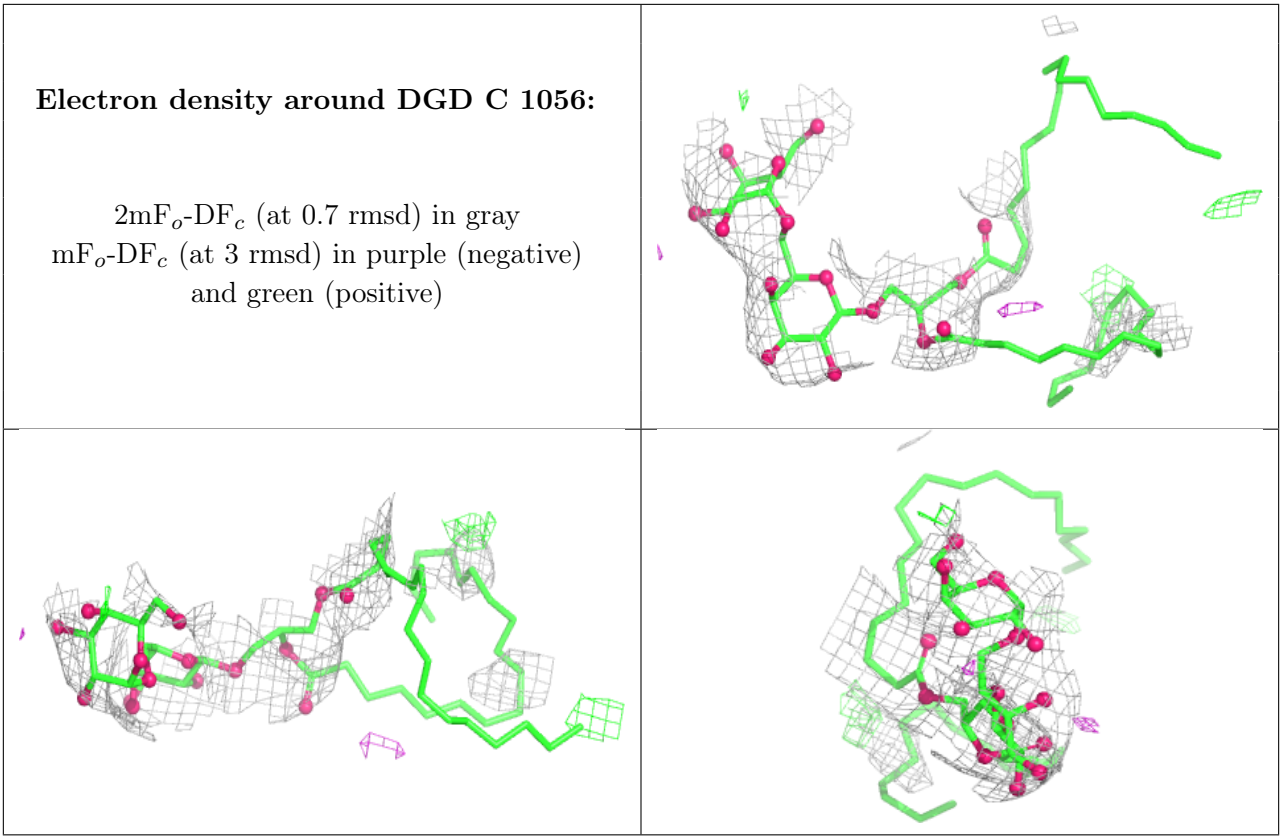






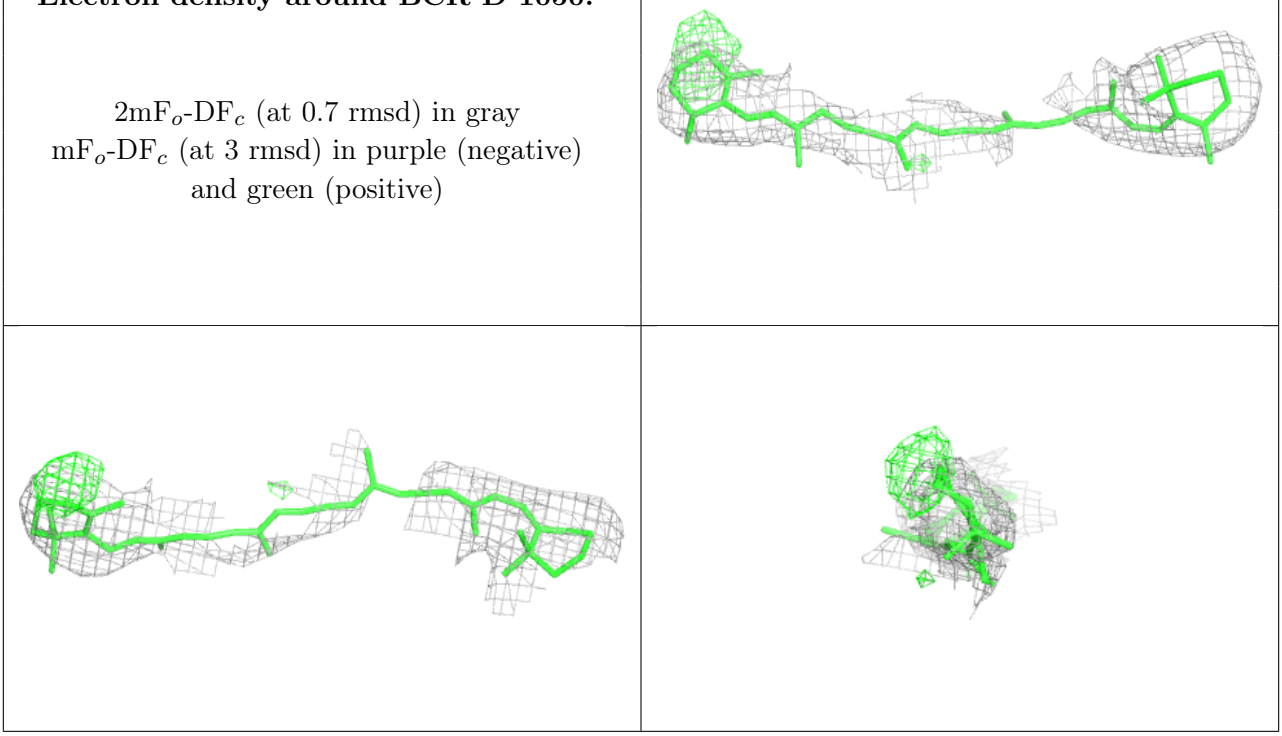
Electron density around DGD C 1056:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



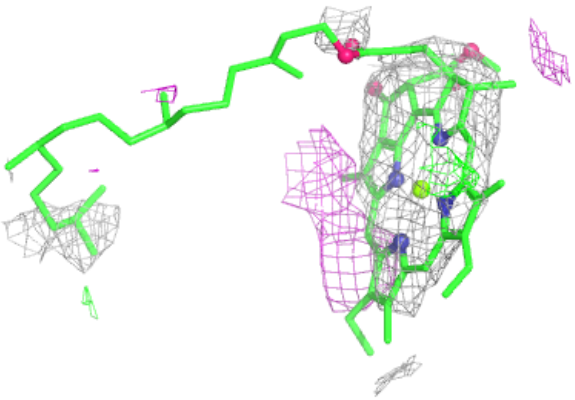
Electron density around BCR D 1050:

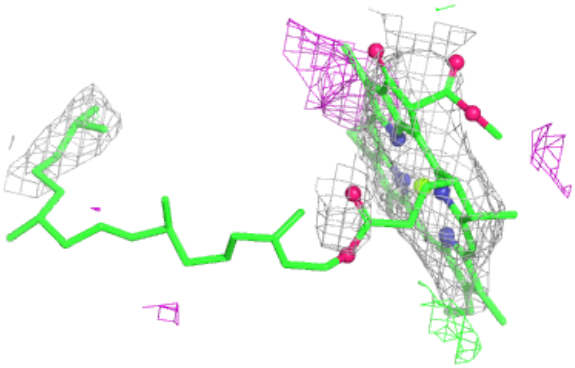
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

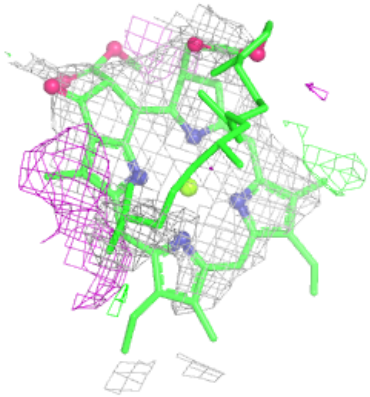


Electron density around CLA C 1032:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

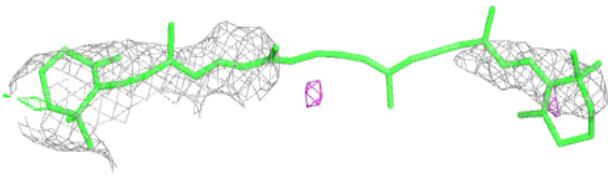


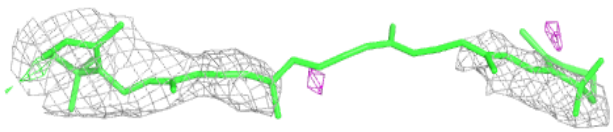


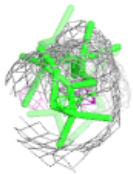


Electron density around BCR b 6048:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

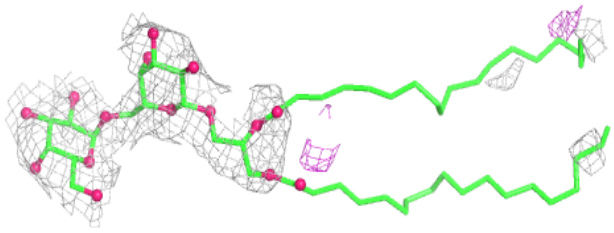


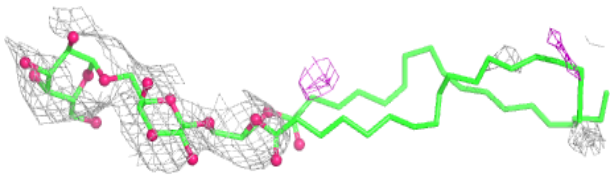


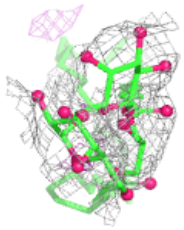


Electron density around DGD c 6057:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

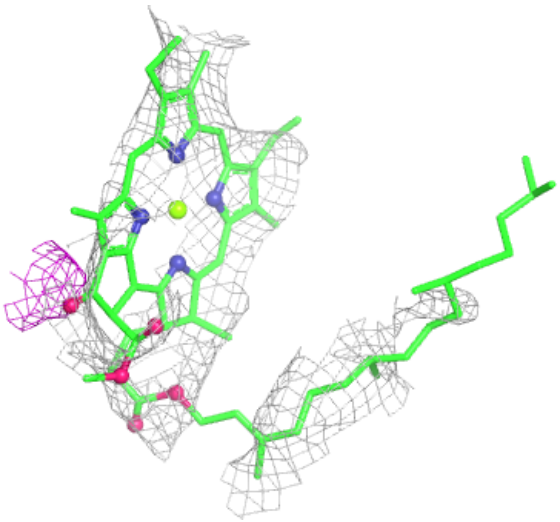


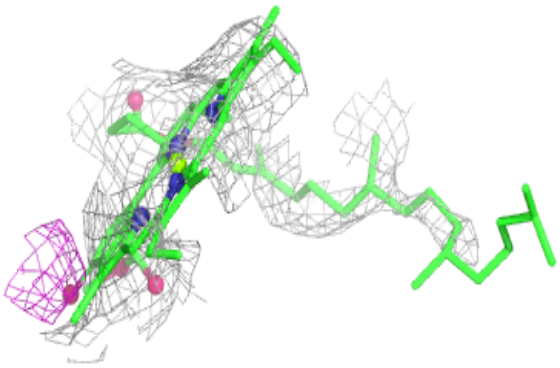


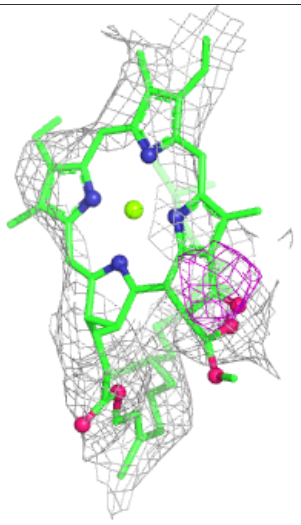


Electron density around CLA B 1024:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

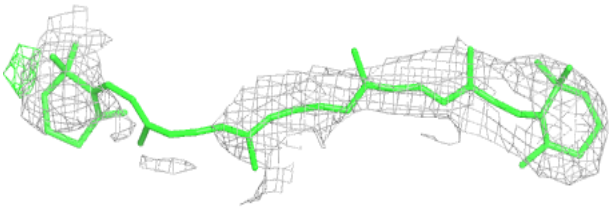


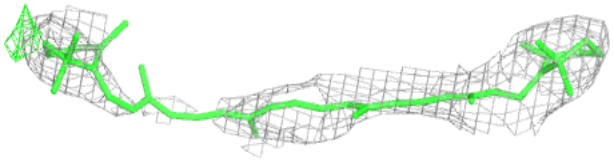


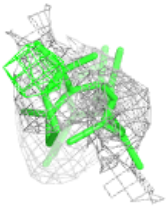


Electron density around BCR t 1046:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

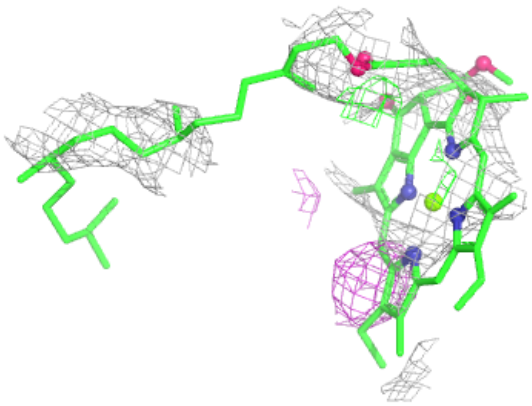


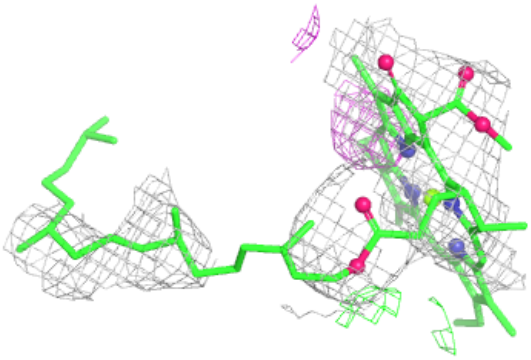


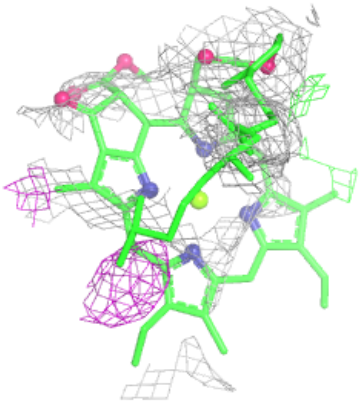


Electron density around CLA c 6032:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

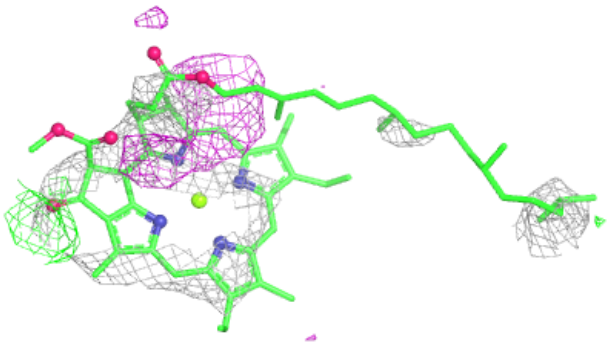


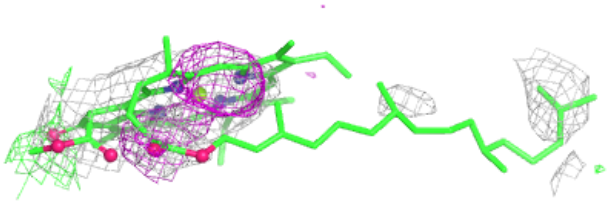


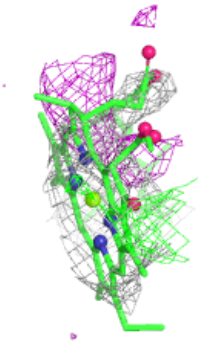


Electron density around CLA C 1025:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

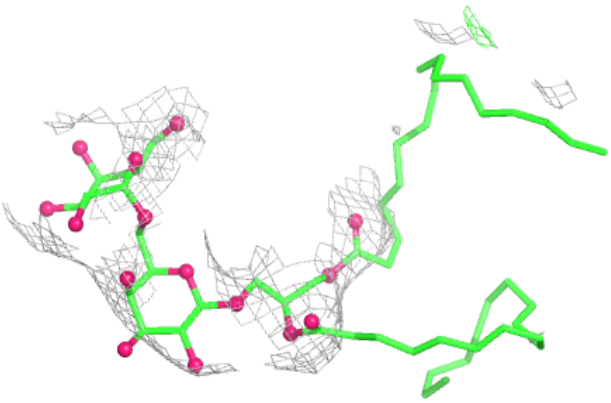


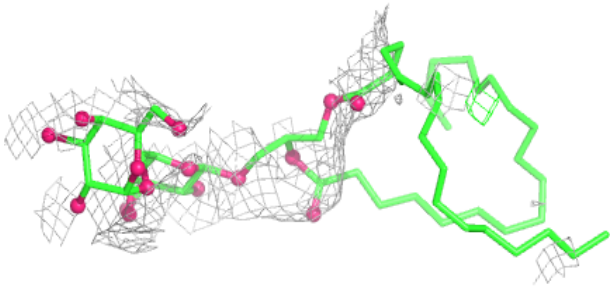


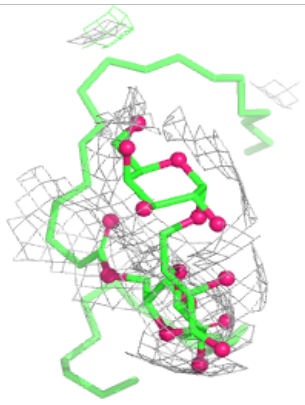


Electron density around DGD c 6056:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

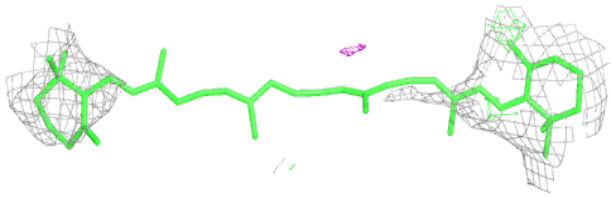


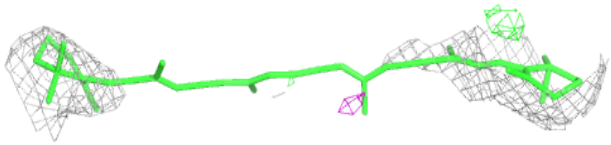


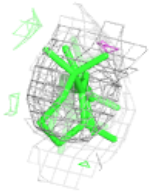


Electron density around BCR Z 1053:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

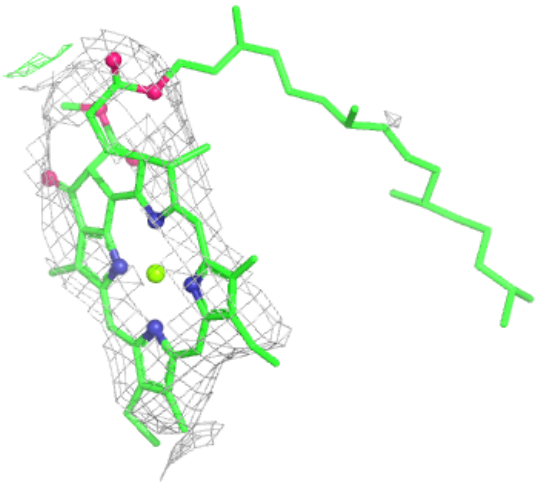


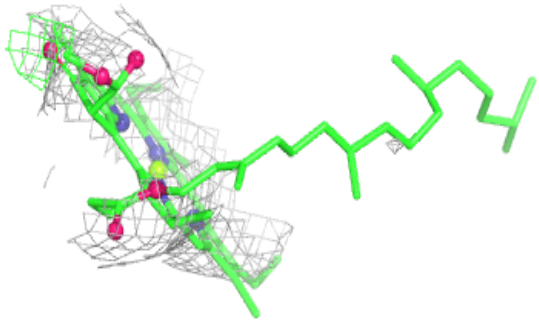


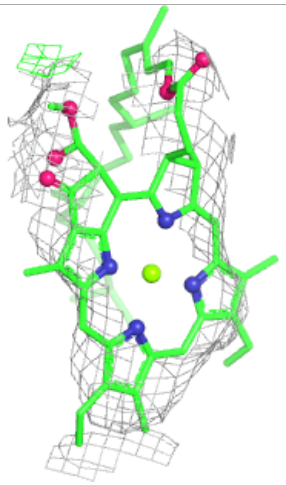


Electron density around CLA b 6024:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



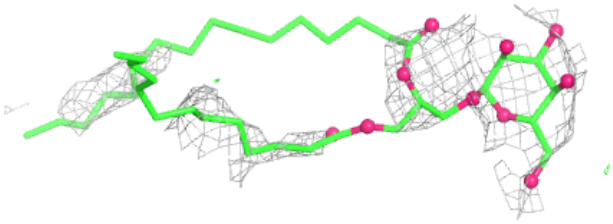


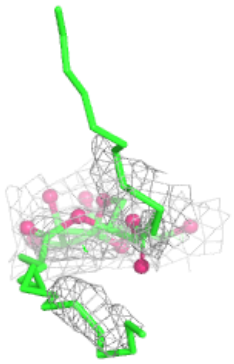


Electron density around MGE d 6062:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

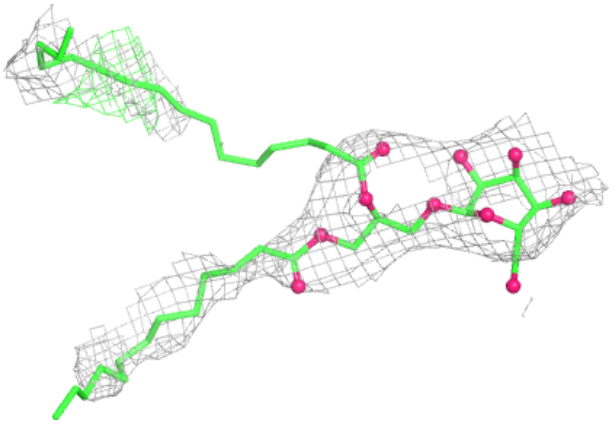


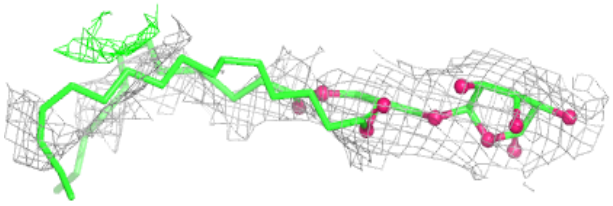


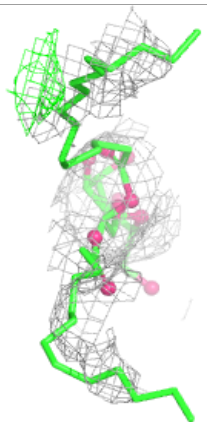


Electron density around MGE J 1059:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

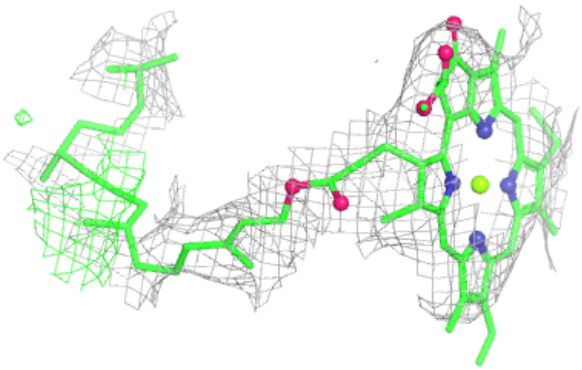


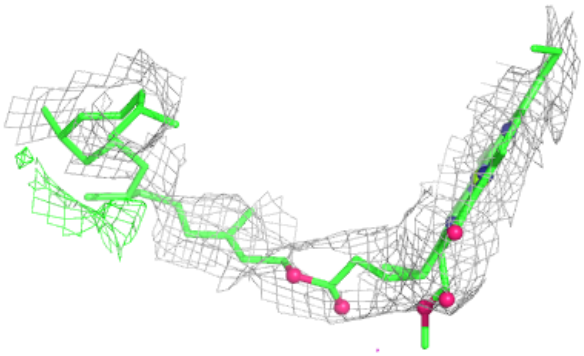


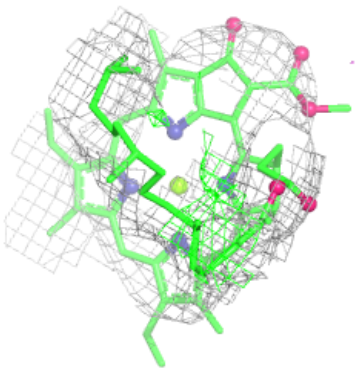


Electron density around CLA b 6014:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

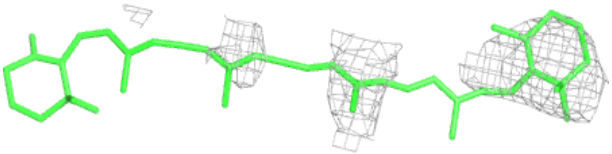


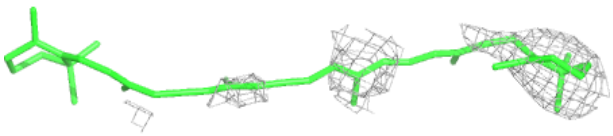


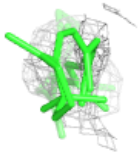


Electron density around BCR B 1045:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

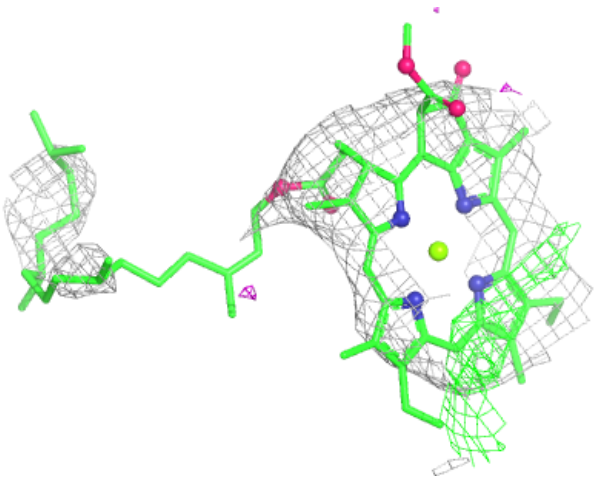


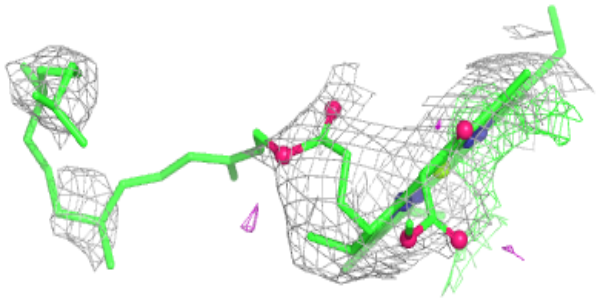


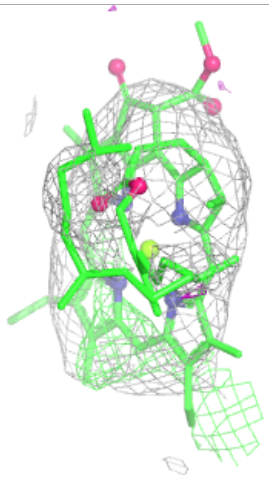


Electron density around CLA C 1027:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

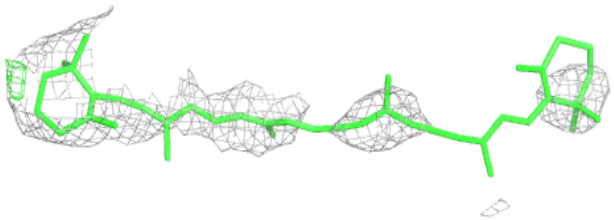


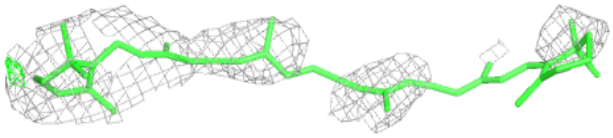


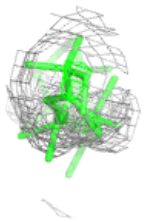


Electron density around BCR B 1048:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

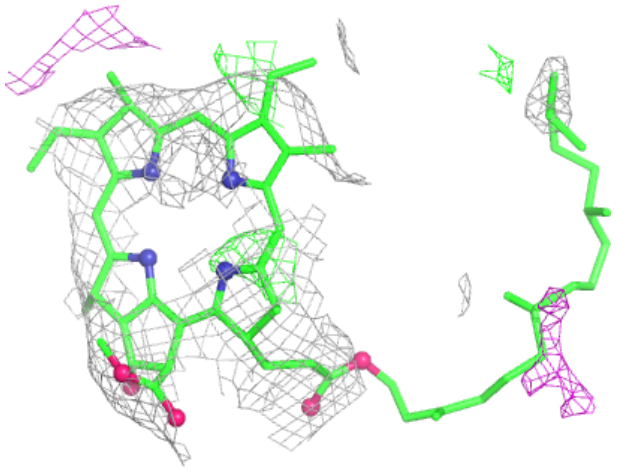


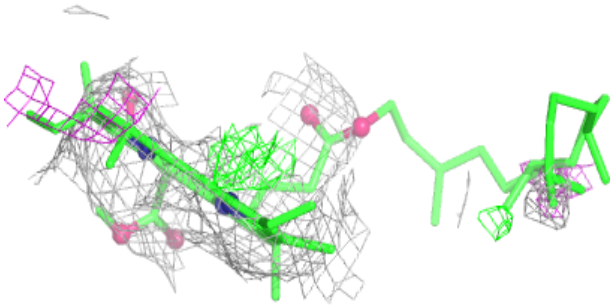




Electron density around PHO d 6038:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

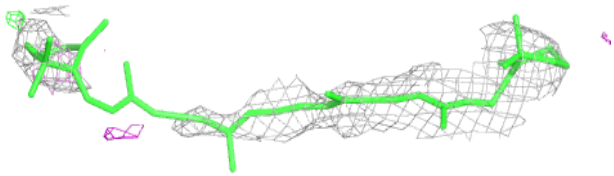


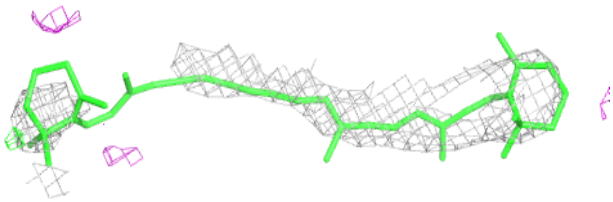


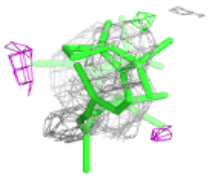


Electron density around BCR T 6046:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

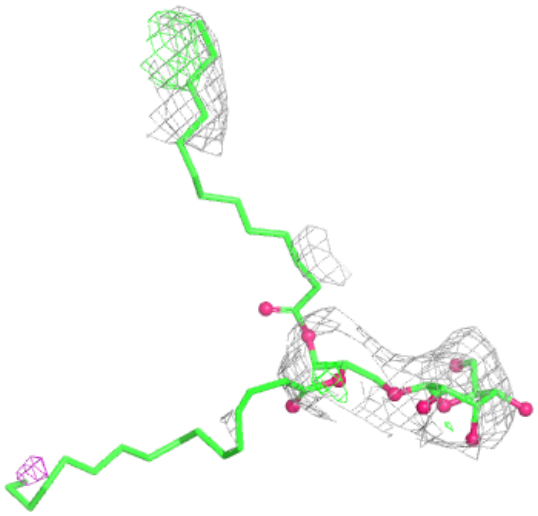


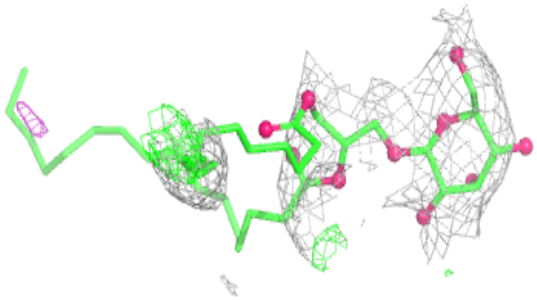




Electron density around MGE d 6061:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

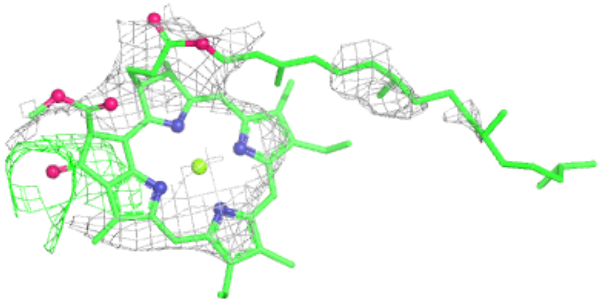


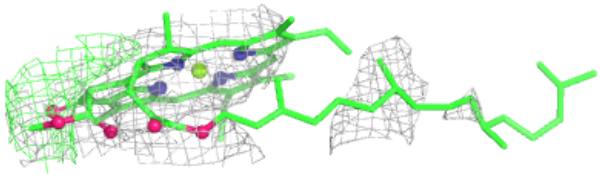


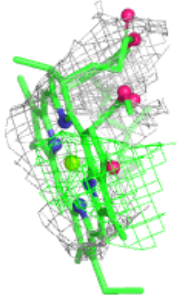


Electron density around CLA c 6025:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

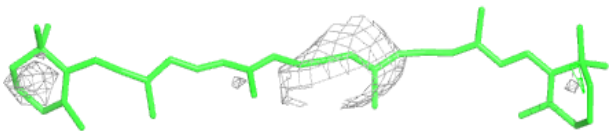


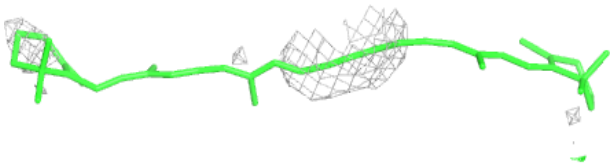


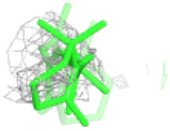


Electron density around BCR c 6054:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

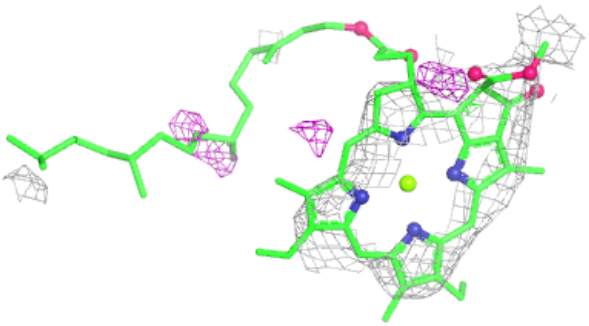


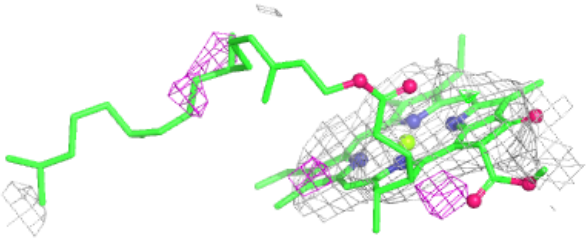


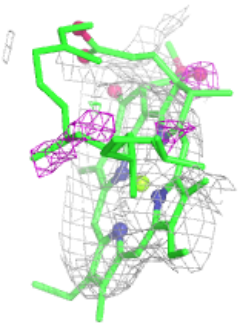


Electron density around CLA d 6008:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

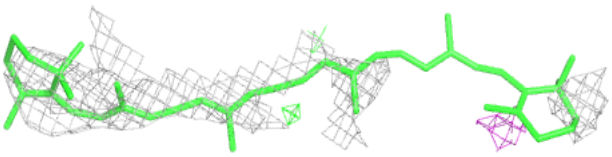


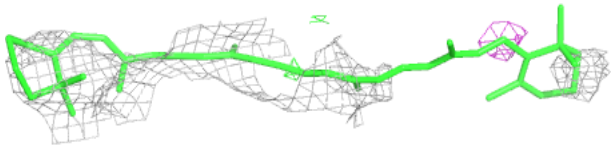


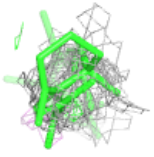


Electron density around BCR K 1051:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

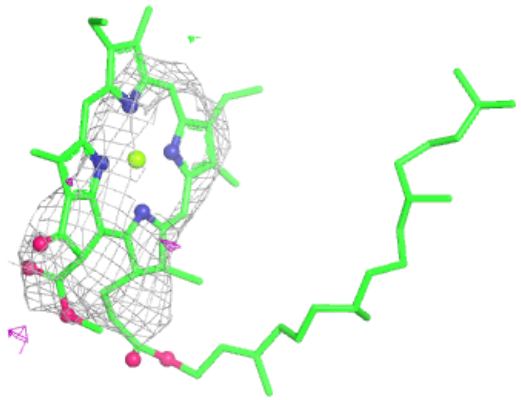


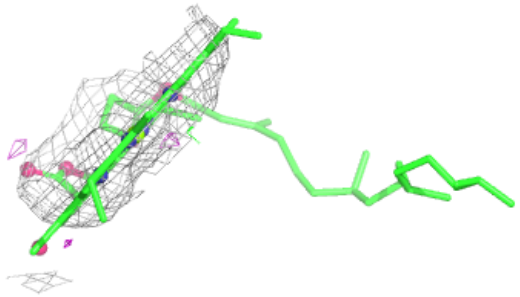


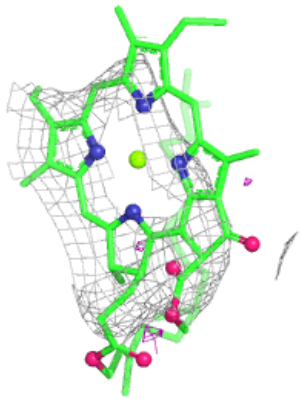


Electron density around CLA c 6031:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

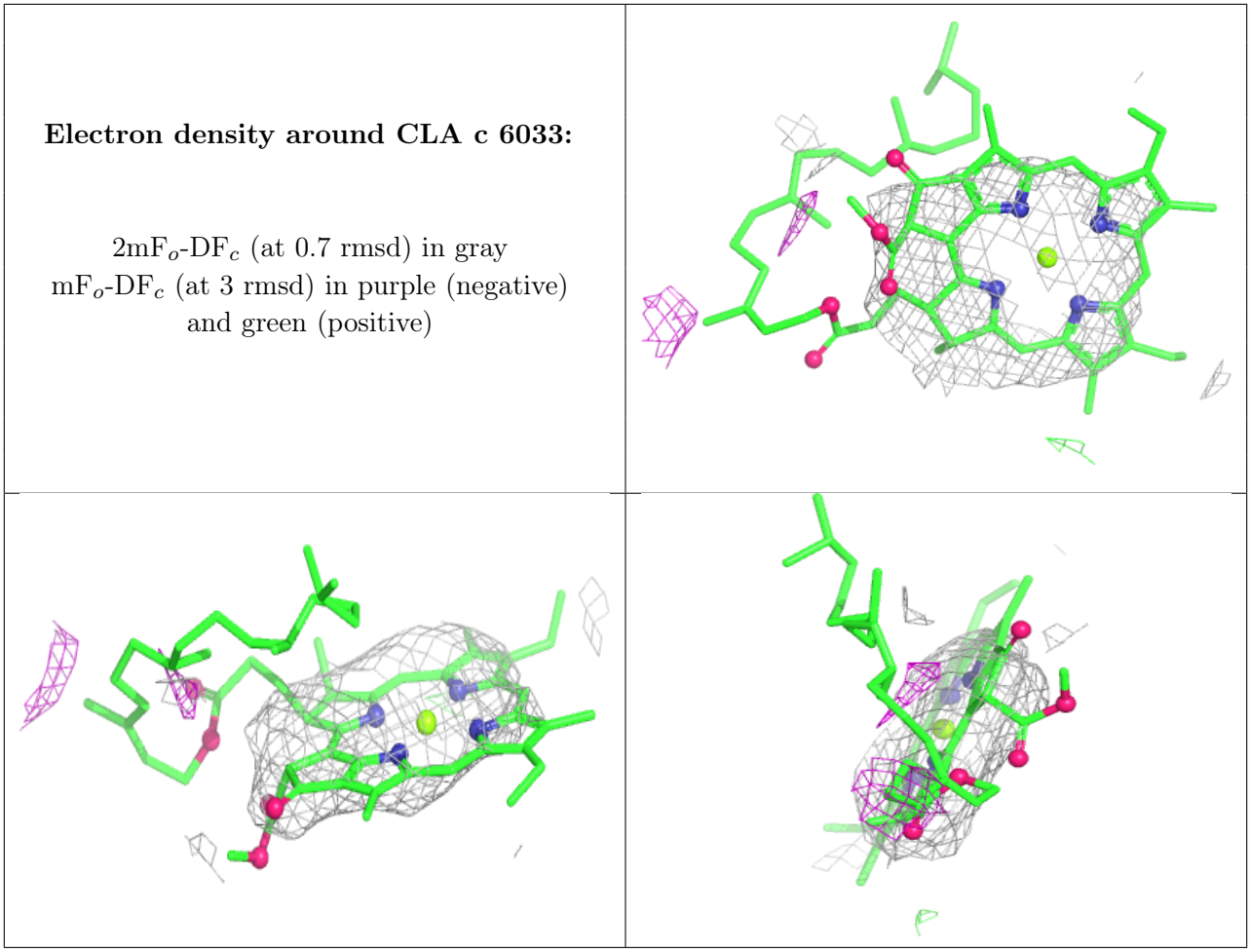






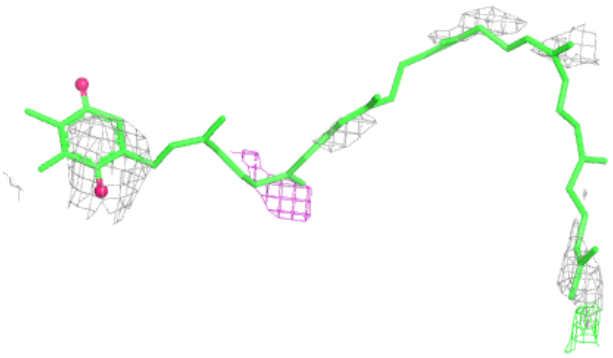
Electron density around CLA c 6033:

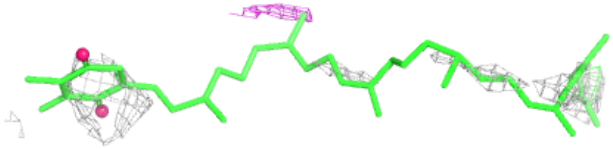
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

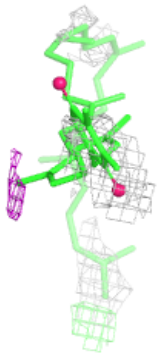


Electron density around PQ9 d 6042:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

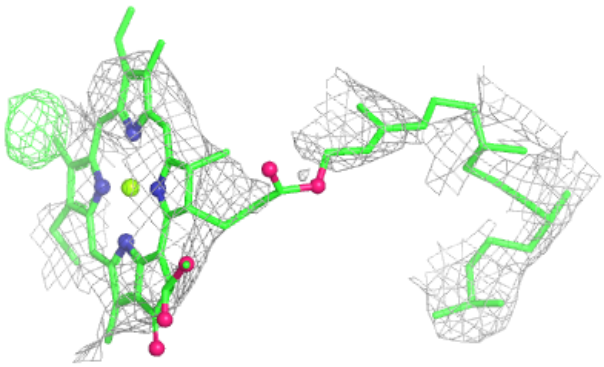


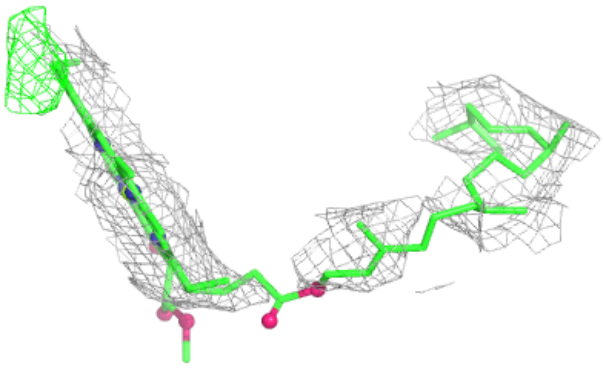


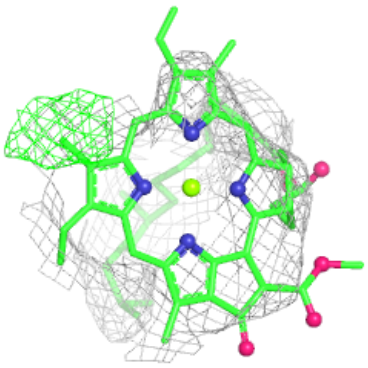


Electron density around CLA B 1014:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

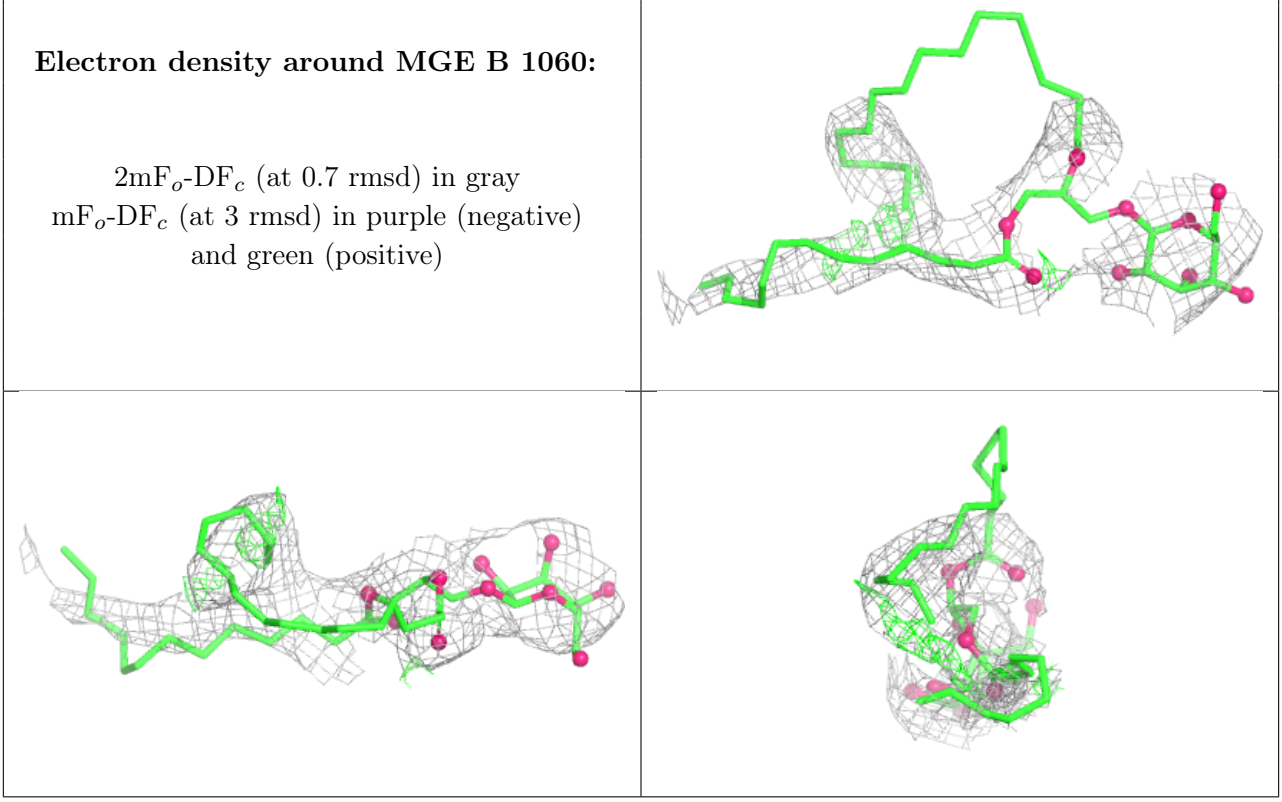






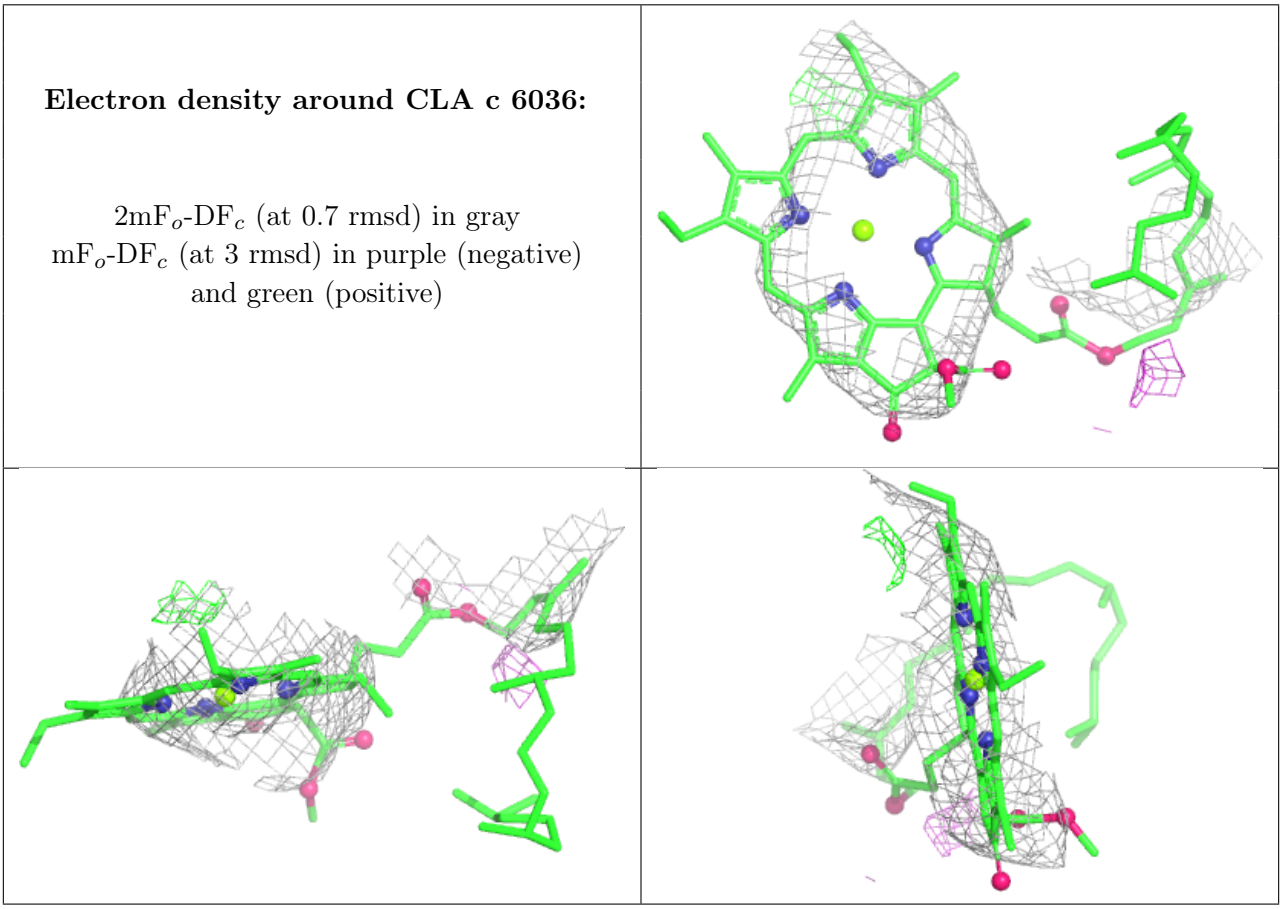
Electron density around MGE B 1060:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



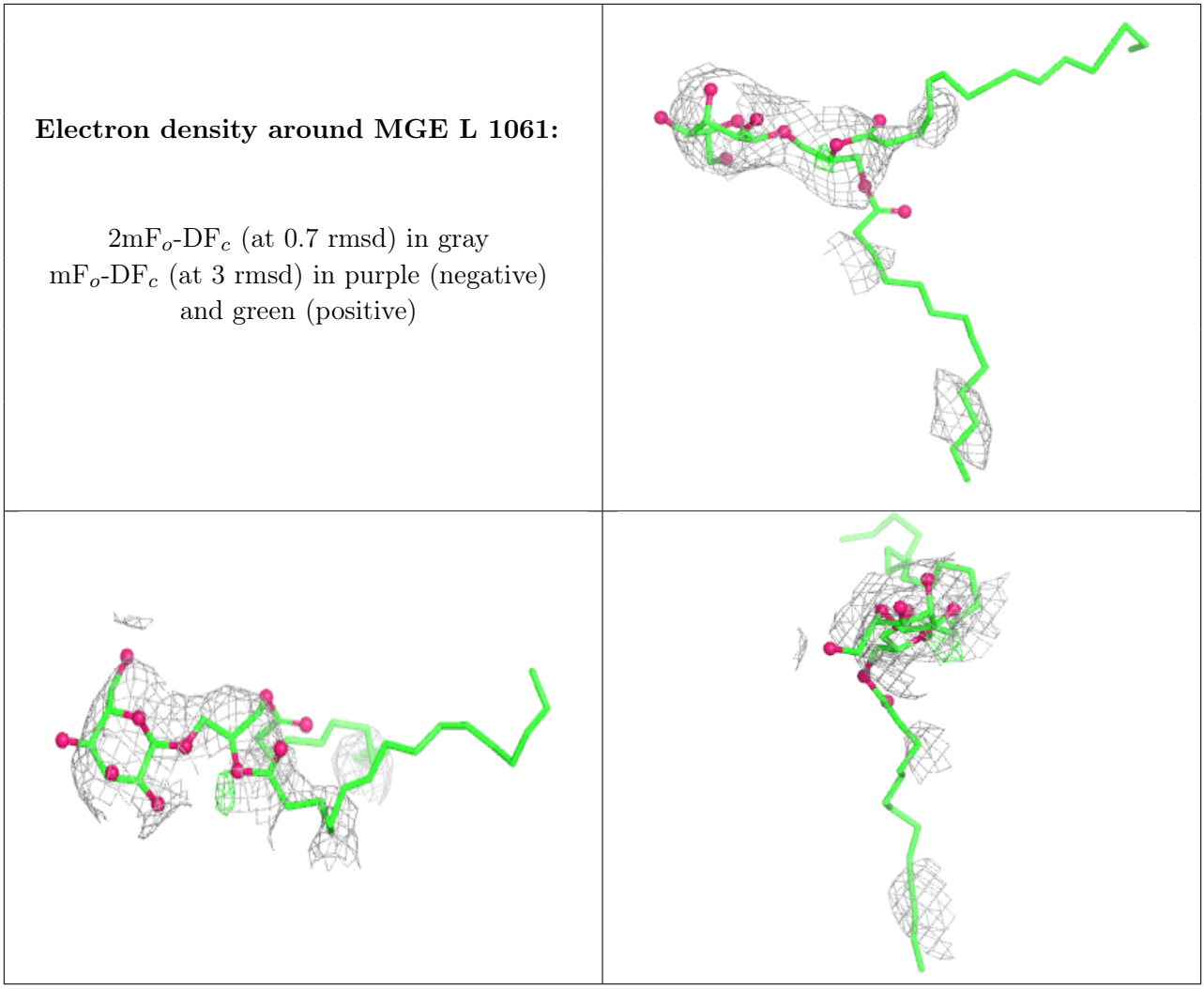
Electron density around CLA c 6036:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



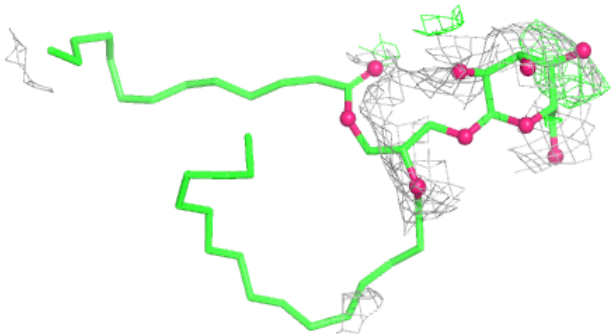
Electron density around MGE L 1061:

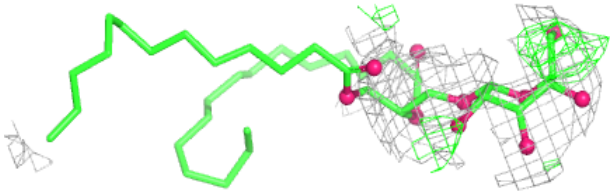
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



Electron density around MGE b 6060:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

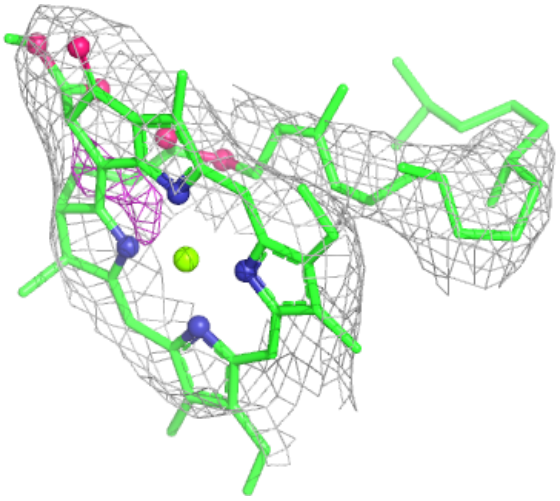


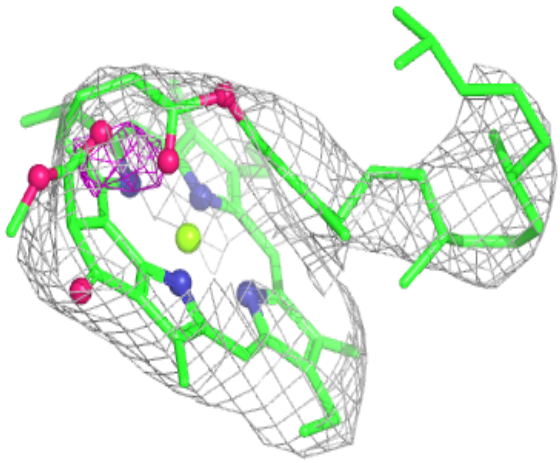


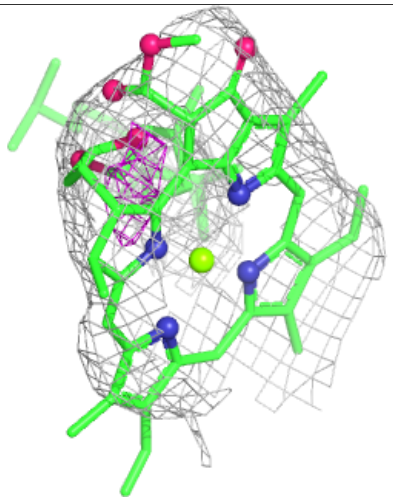


Electron density around CLA B 1022:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

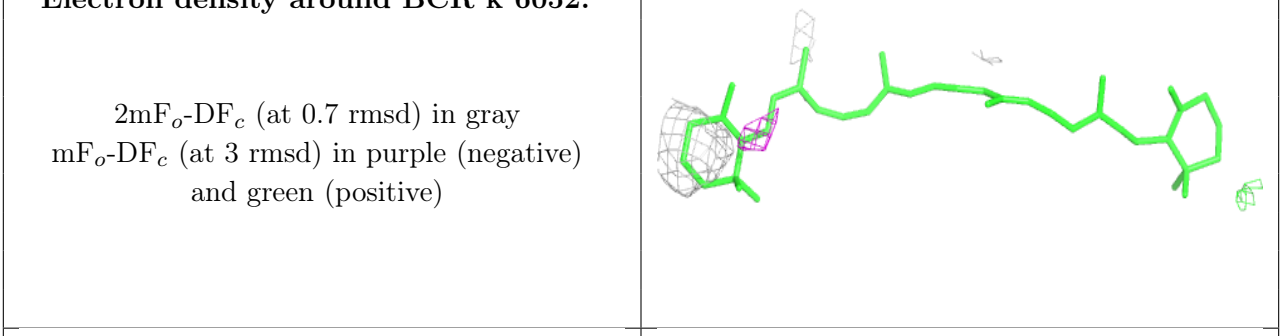


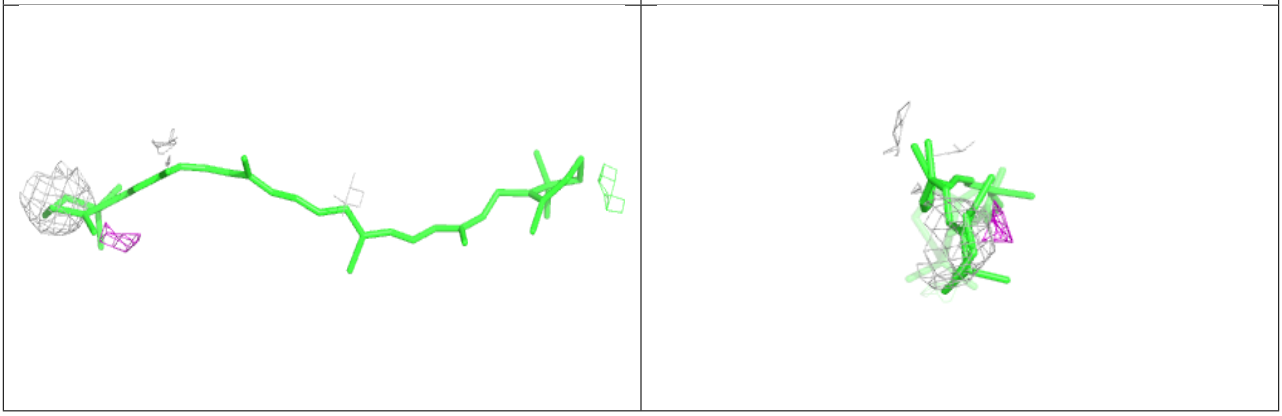




Electron density around BCR k 6052:

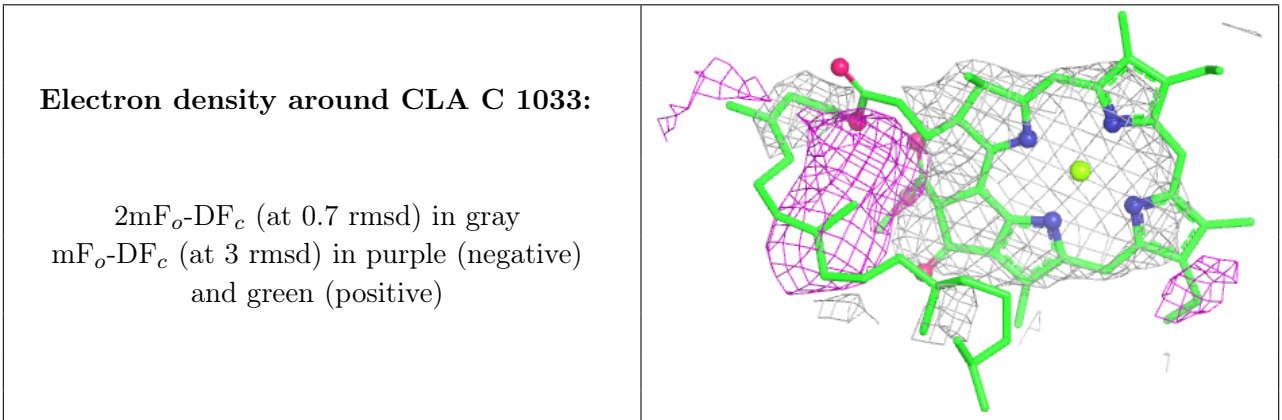
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

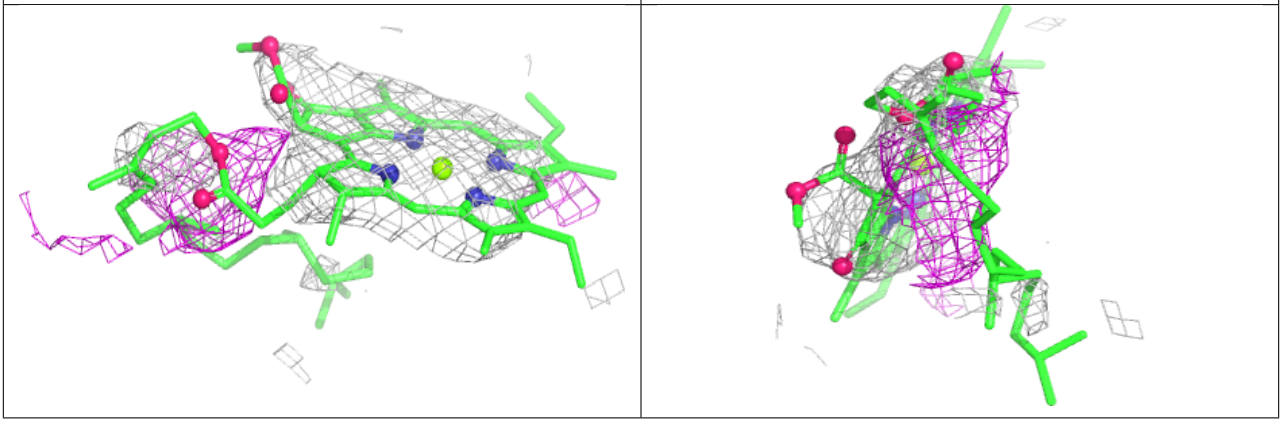




Electron density around CLA C 1033:

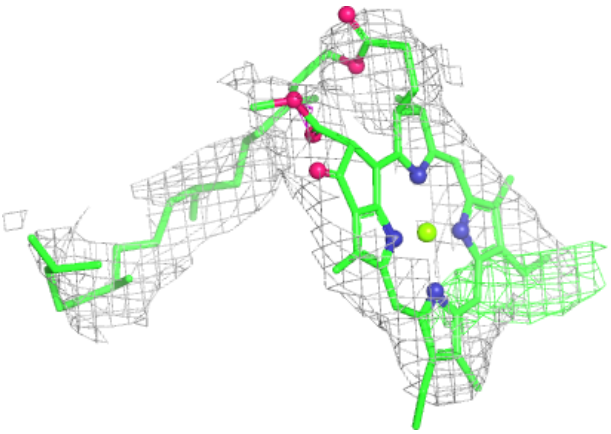
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

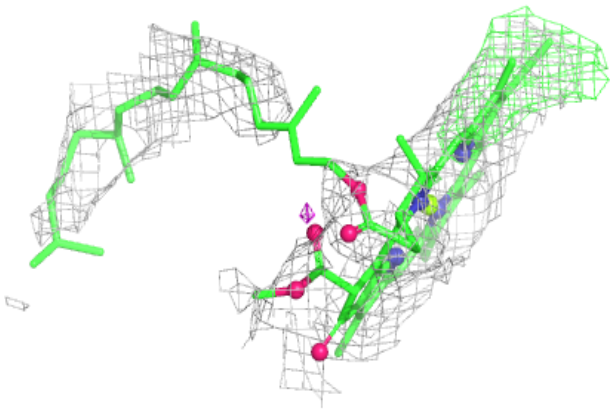


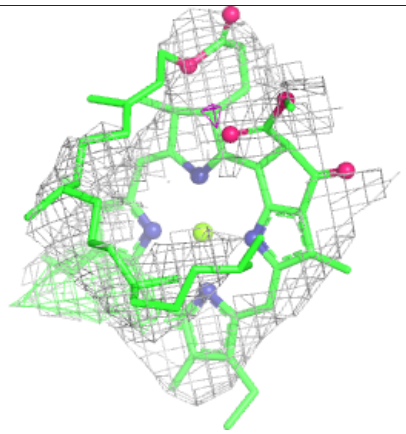


Electron density around CLA b 6021:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

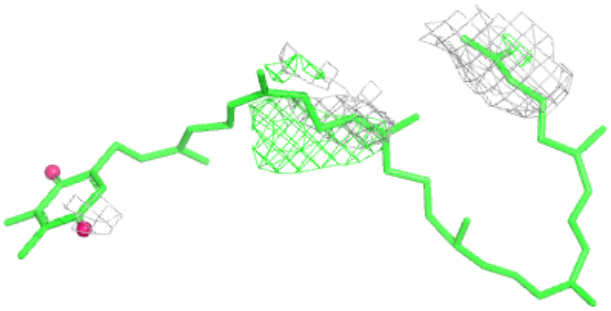


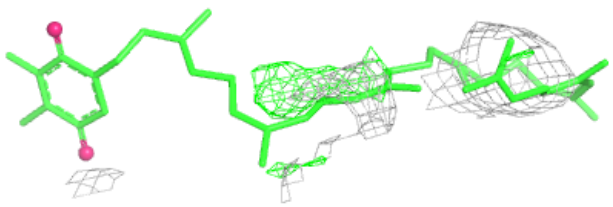


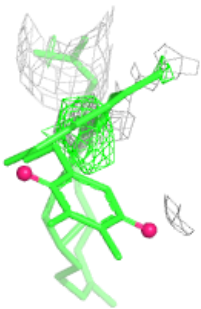


Electron density around PQ9 A 1043:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

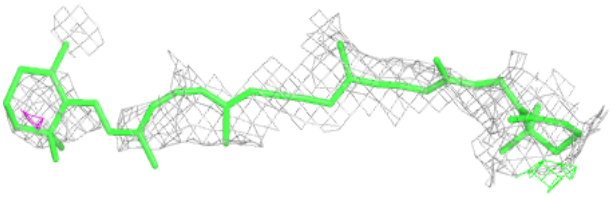


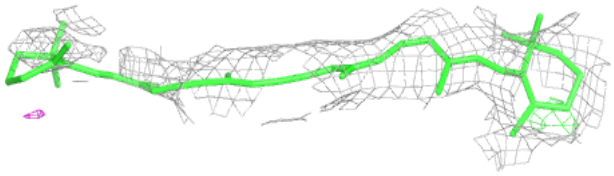


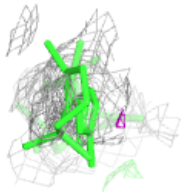


Electron density around BCR H 1049:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

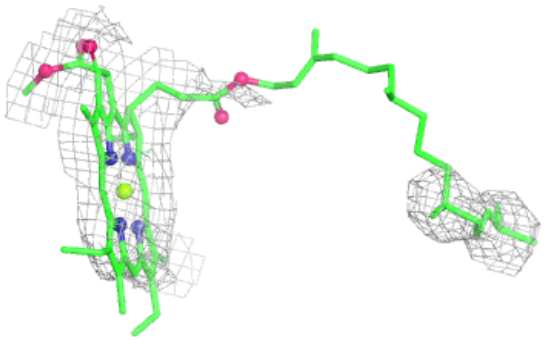


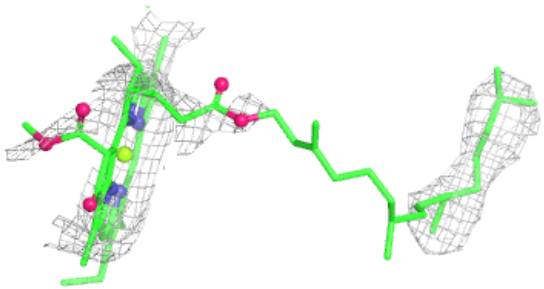


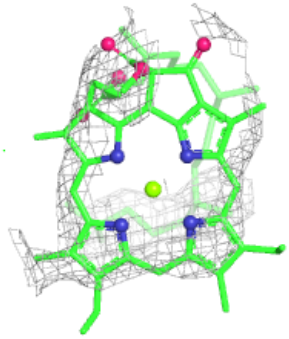


Electron density around CLA c 6030:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

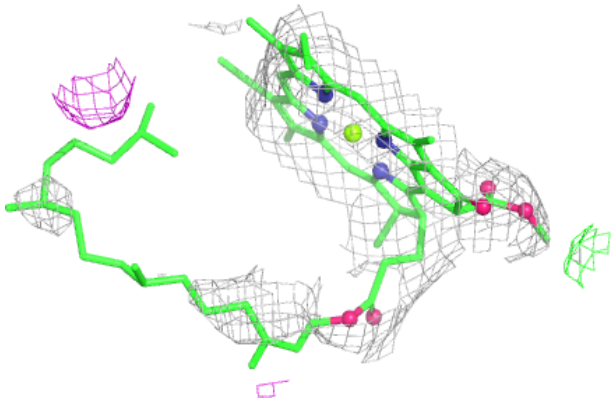


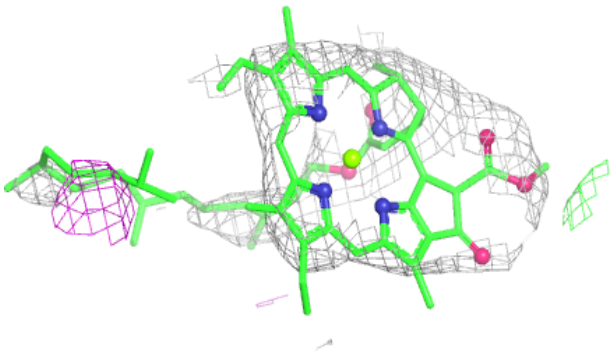


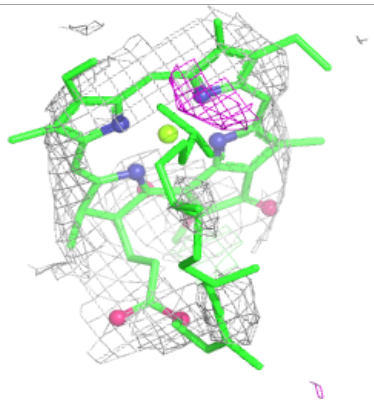


Electron density around CLA C 1028:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

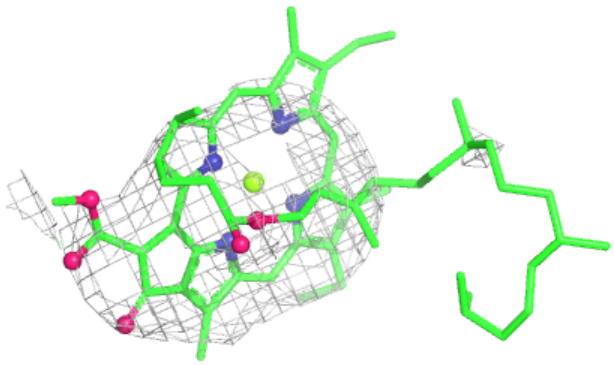


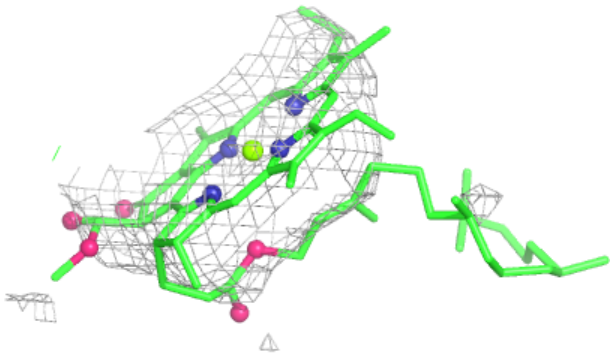


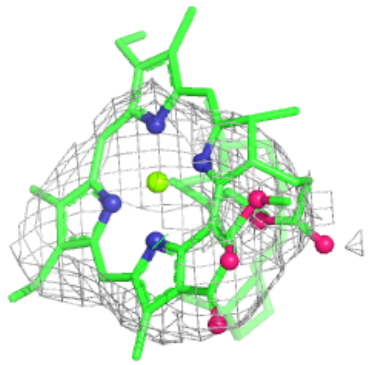


Electron density around CLA c 6029:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

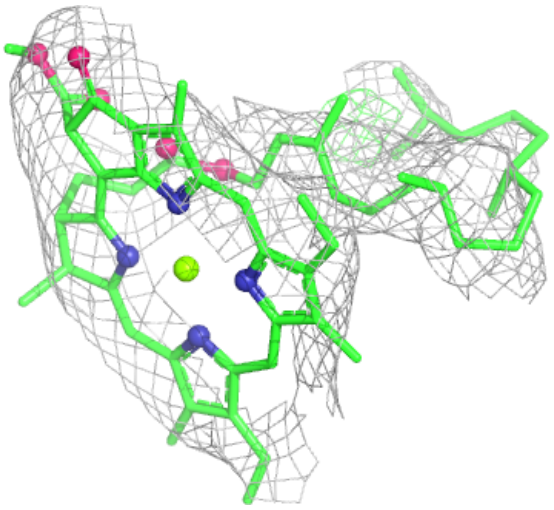


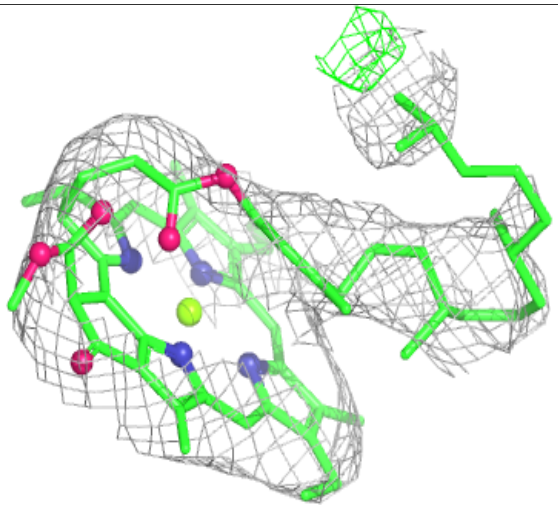


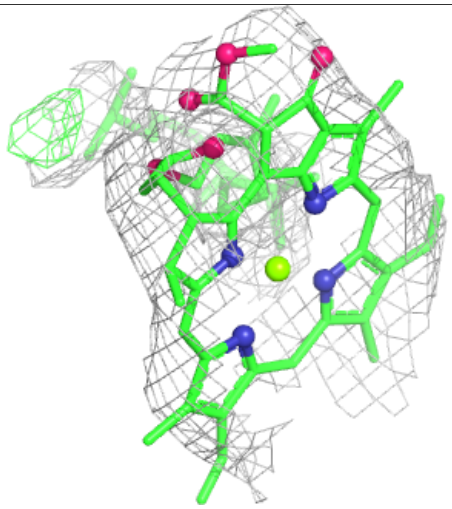


Electron density around CLA b 6022:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

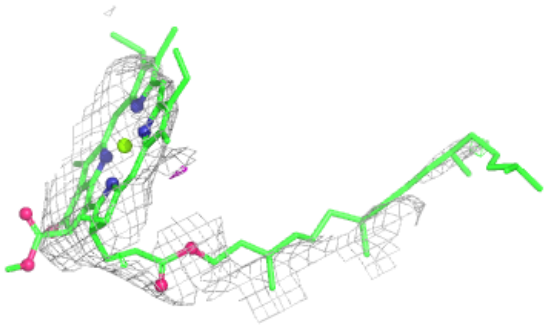


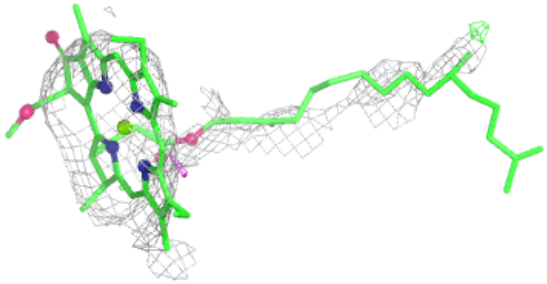


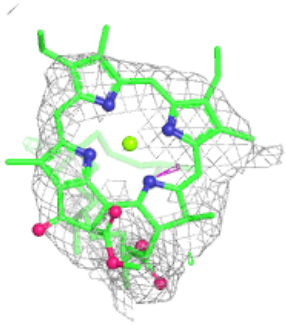


Electron density around CLA b 6013:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

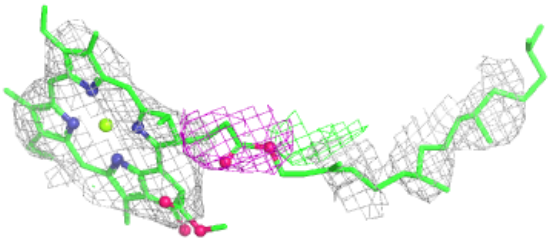


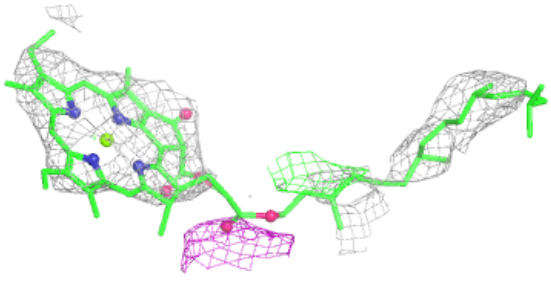


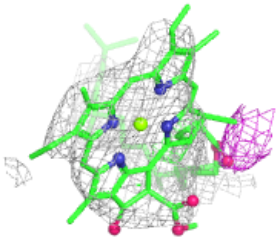


Electron density around CLA a 6003:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

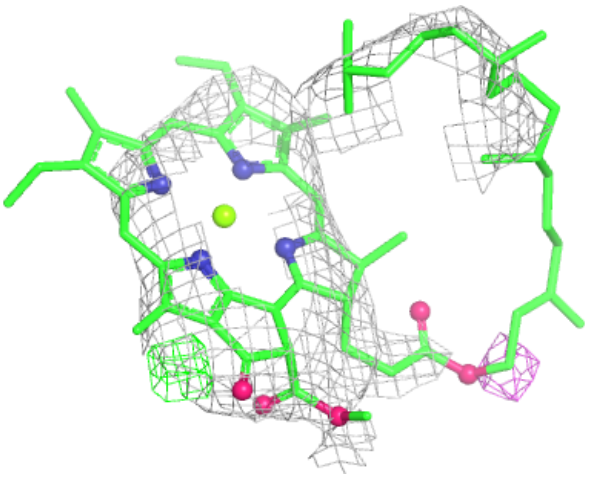


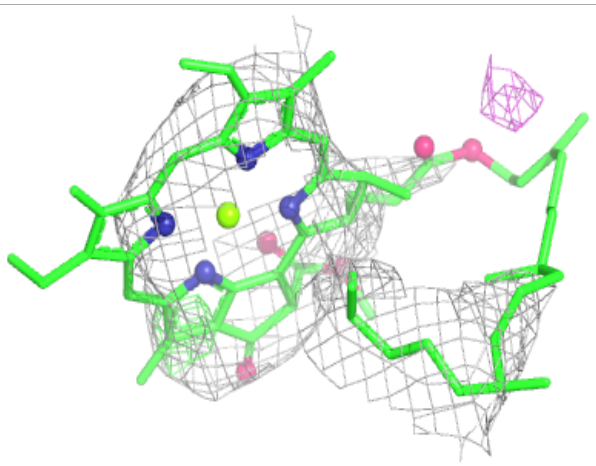


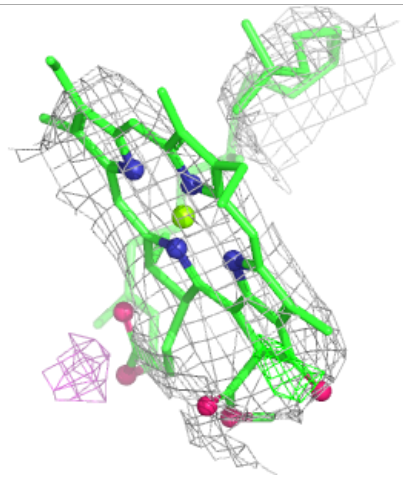


Electron density around CLA b 6023:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

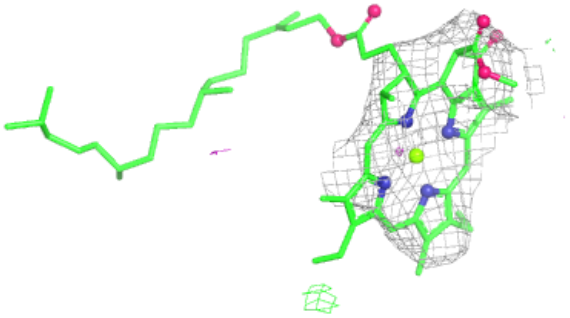


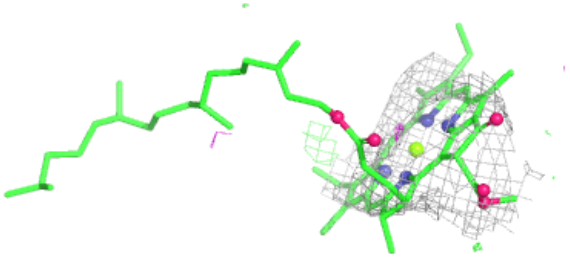


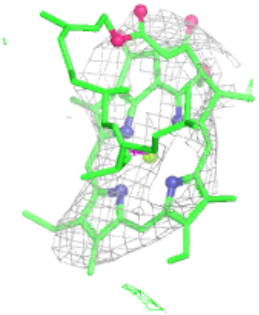


Electron density around CLA c 6035:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

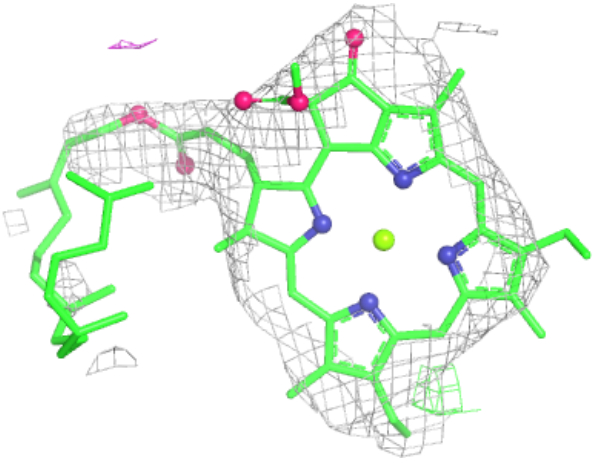


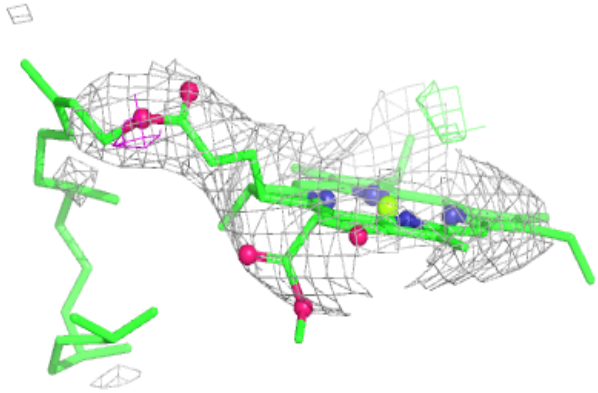


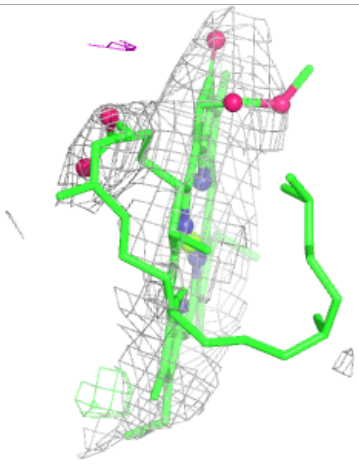


Electron density around CLA C 1036:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

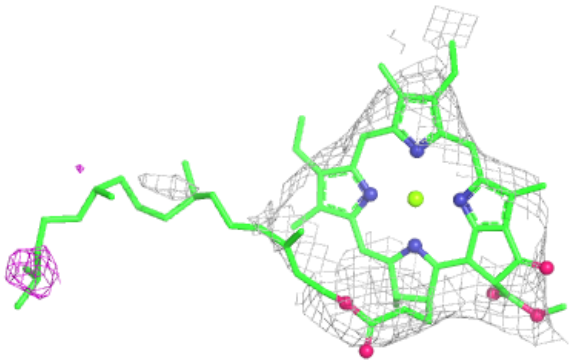


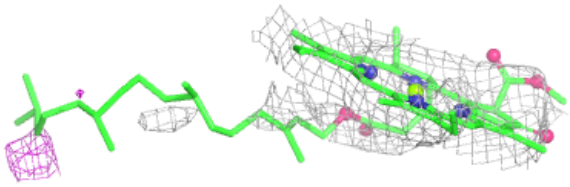


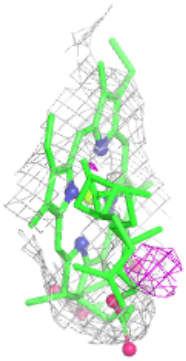


Electron density around CLA b 6011:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

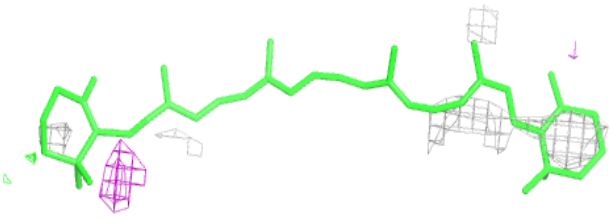


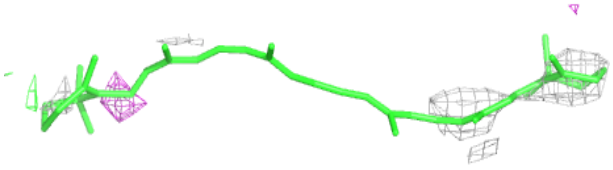


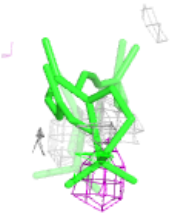


Electron density around BCR K 1052:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

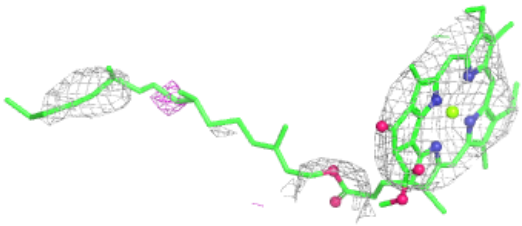


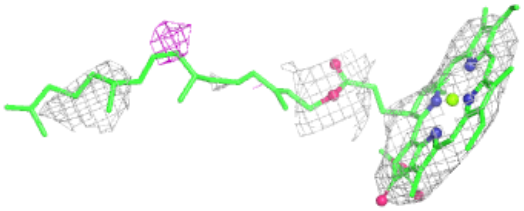


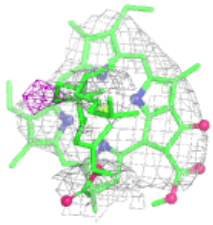


Electron density around CLA b 6012:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

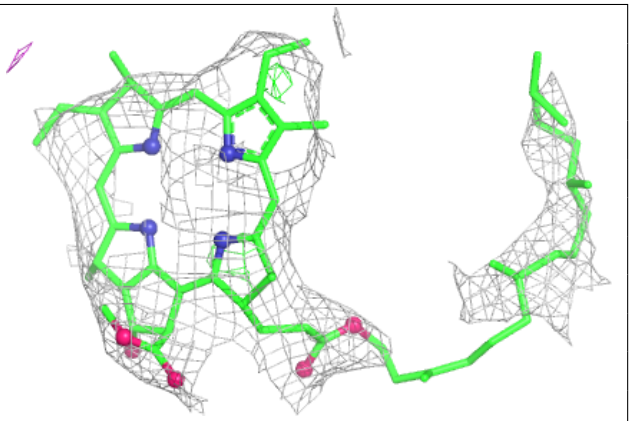


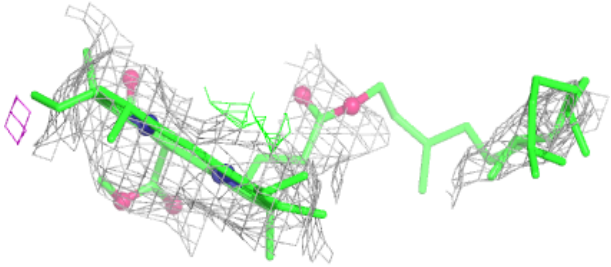


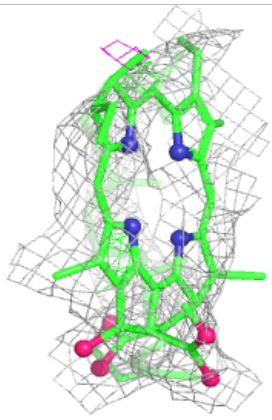


Electron density around PHO A 1038:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

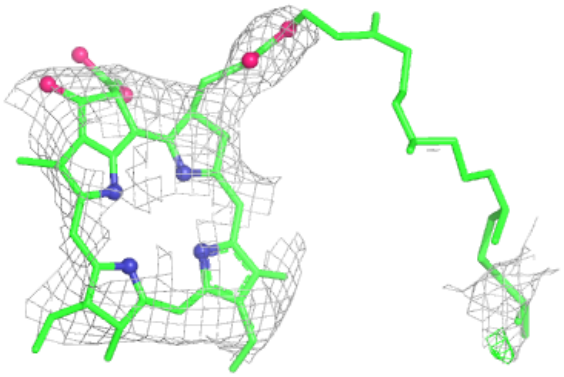


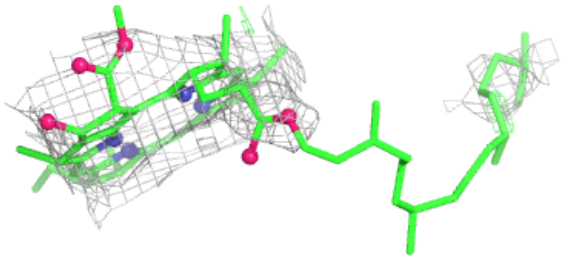


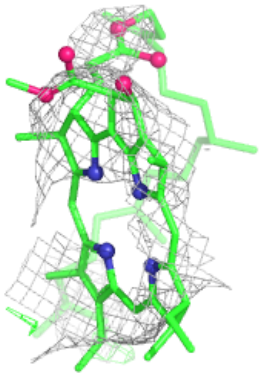


Electron density around PHO a 6039:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

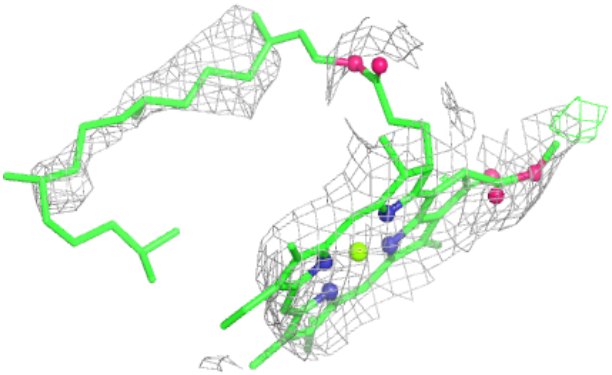


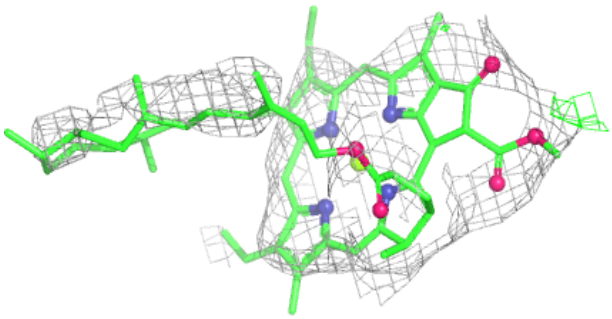


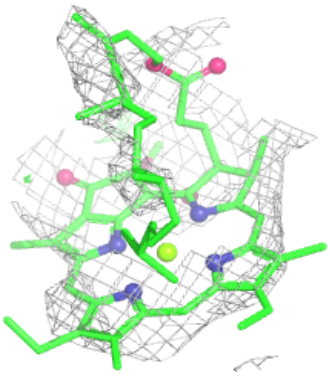


Electron density around CLA c 6028:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

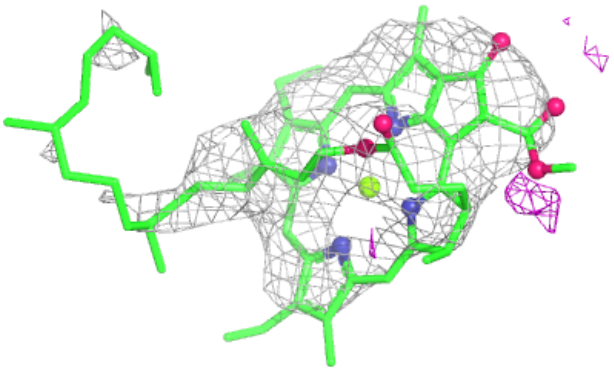


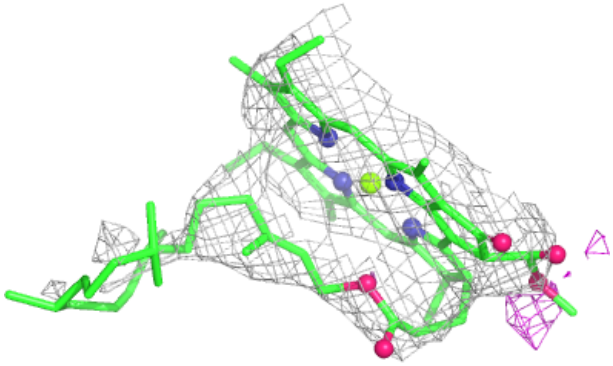


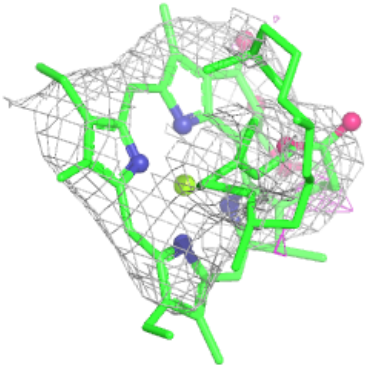


Electron density around CLA C 1029:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

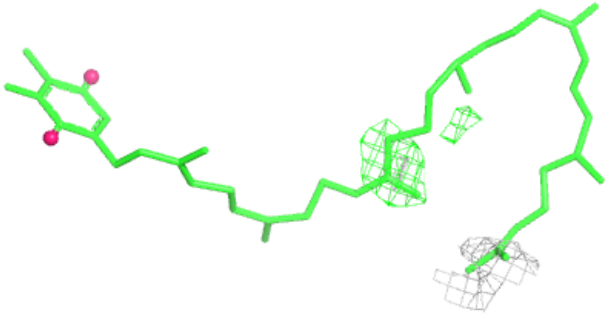


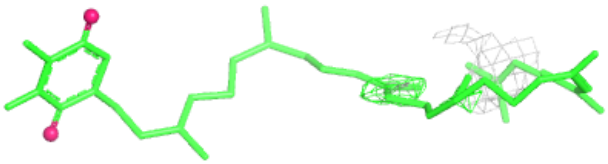


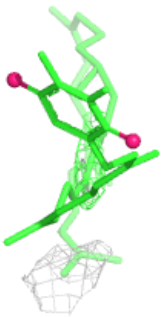


Electron density around PQ9 a 6043:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

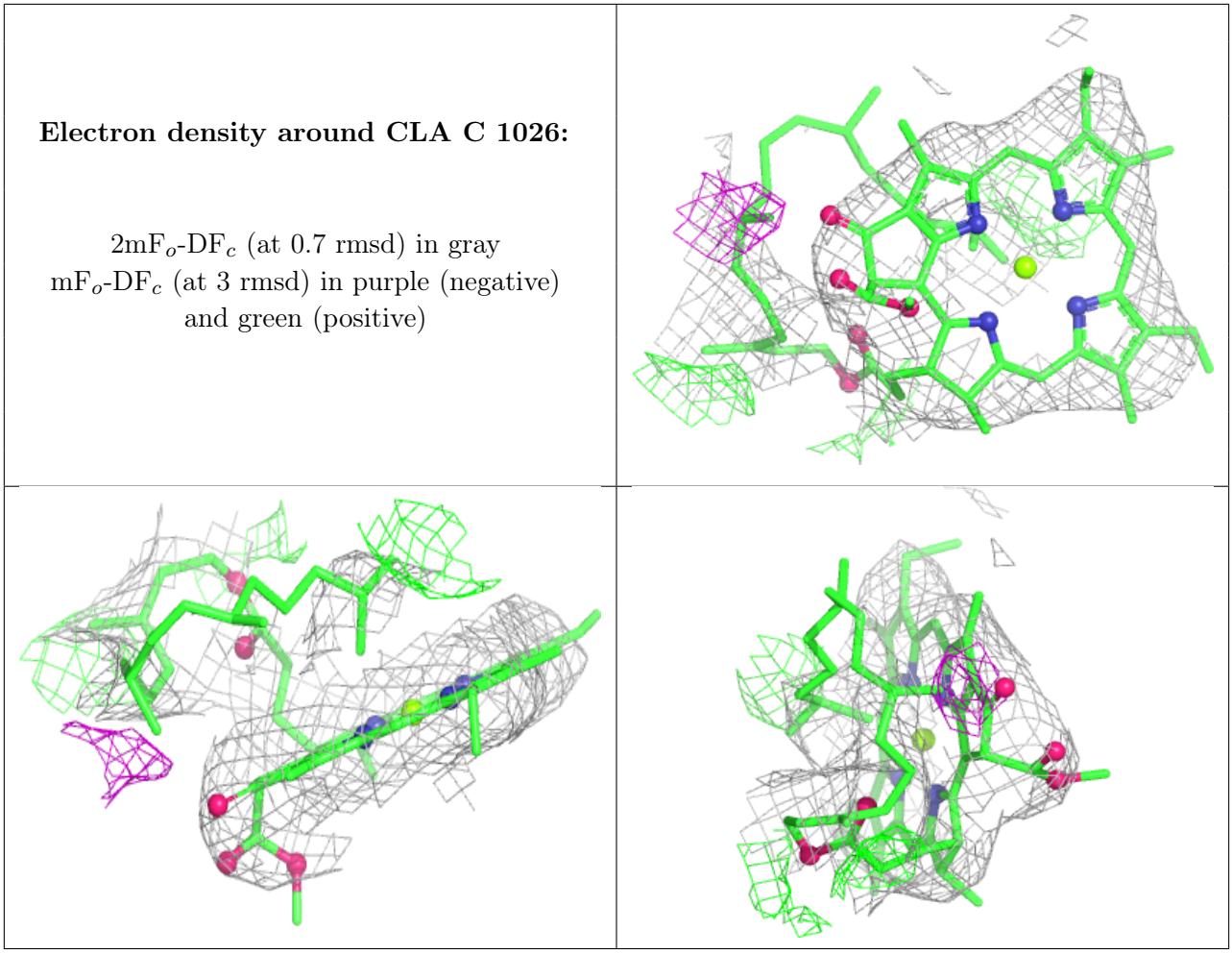






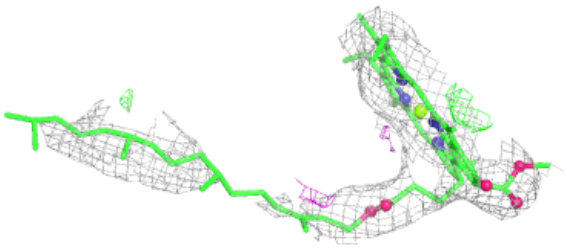
Electron density around CLA C 1026:

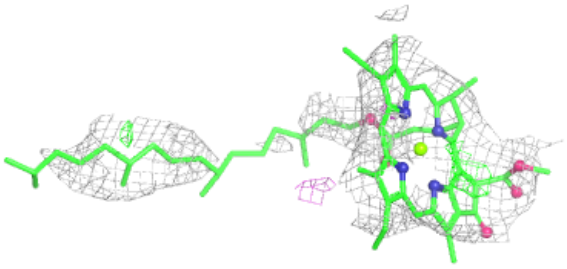
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

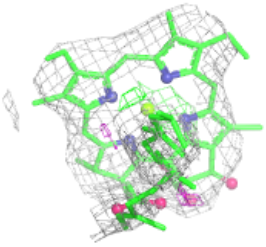


Electron density around CLA b 6015:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



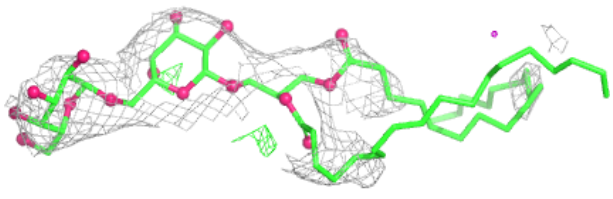


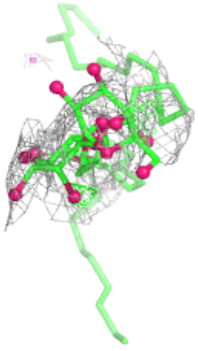


Electron density around DGD c 6055:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

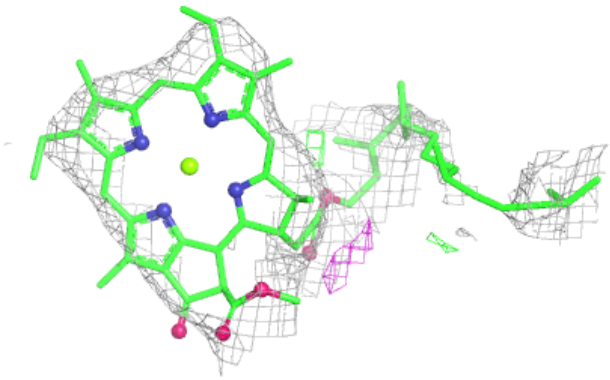


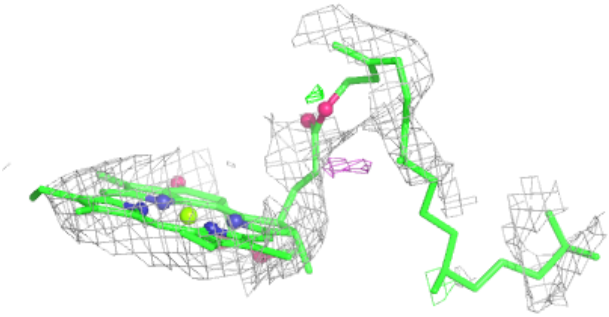




Electron density around CLA a 6006:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

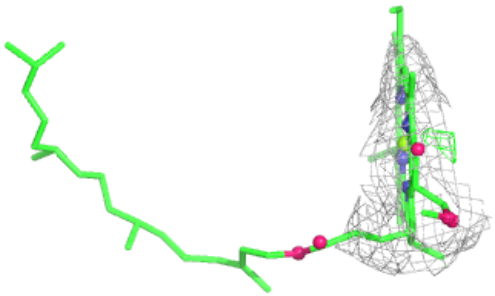


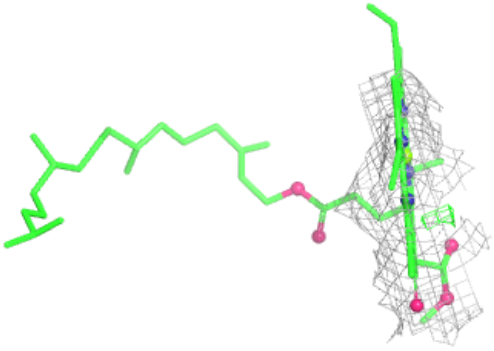


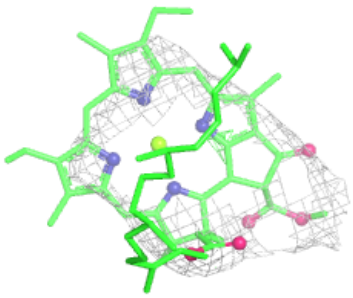


Electron density around CLA a 6007:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

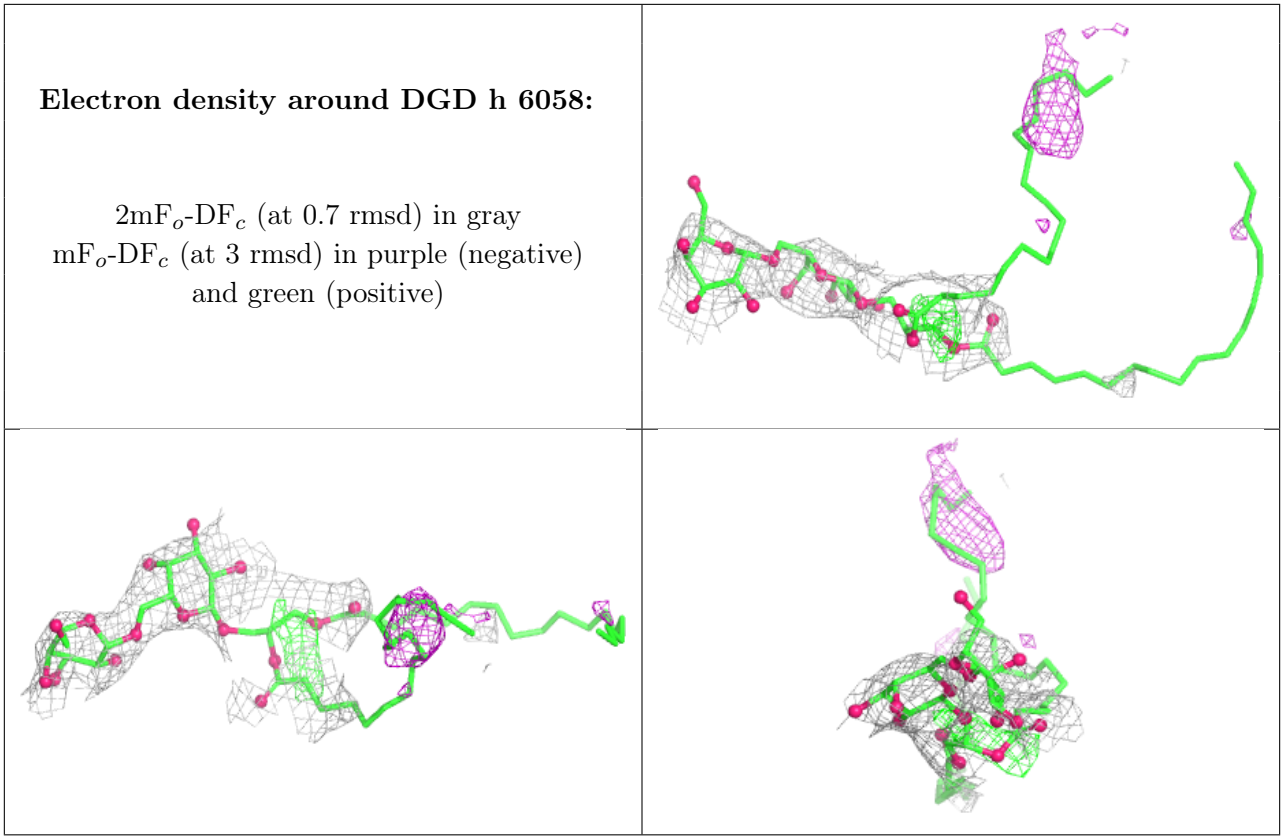






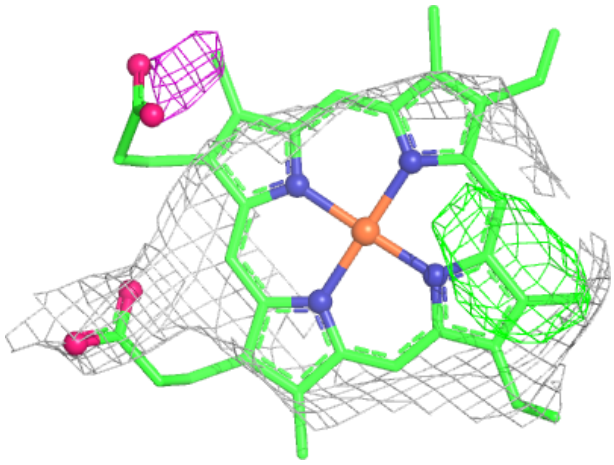
Electron density around DGD h 6058:

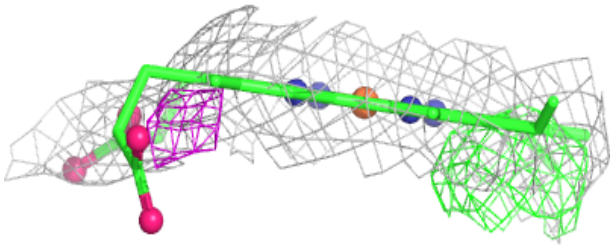
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

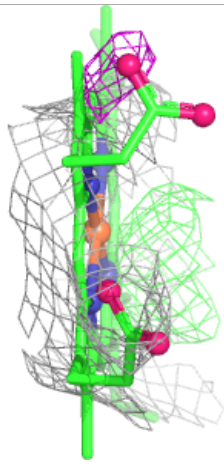


Electron density around HEM e 6040:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

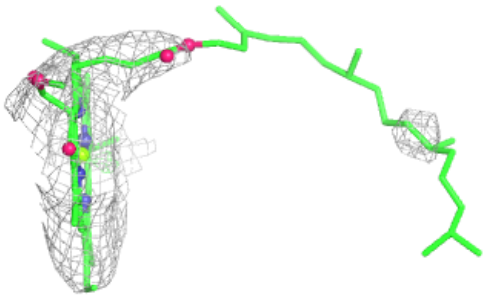


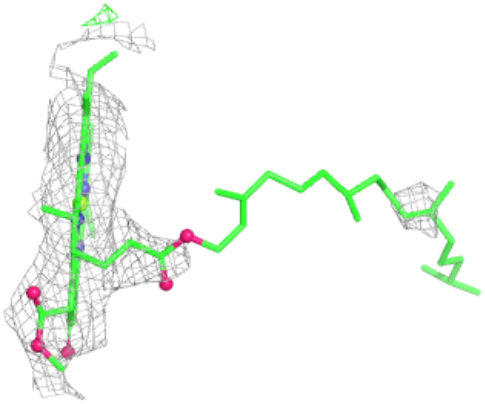


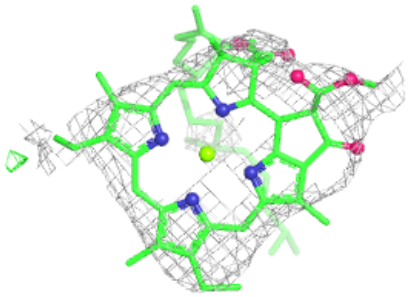


Electron density around CLA A 1007:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

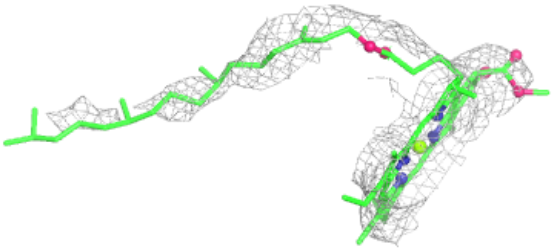


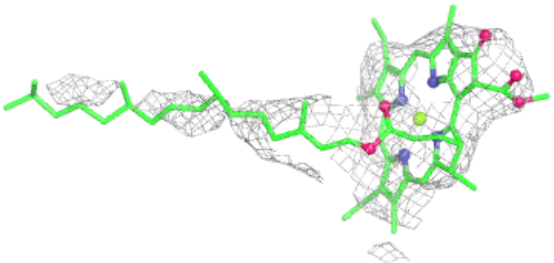


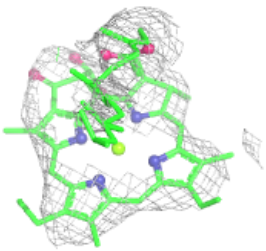


Electron density around CLA B 1015:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

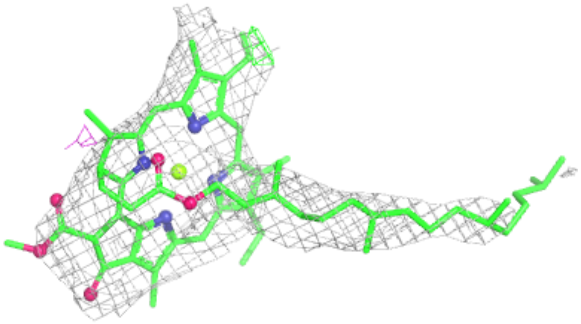


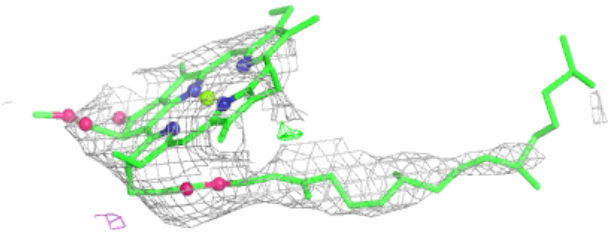


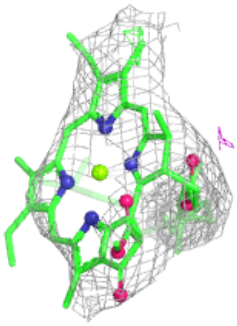


Electron density around CLA B 1016:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

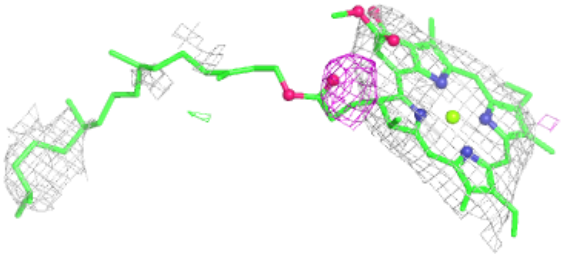


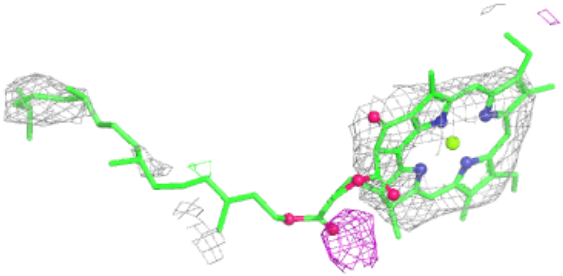


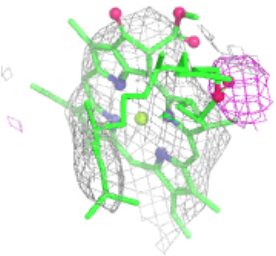


Electron density around CLA A 1003:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



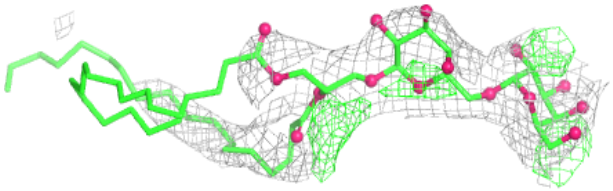


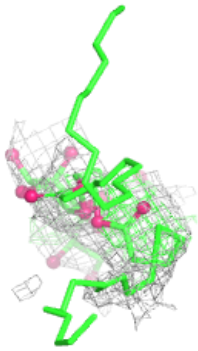


Electron density around DGD C 1055:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

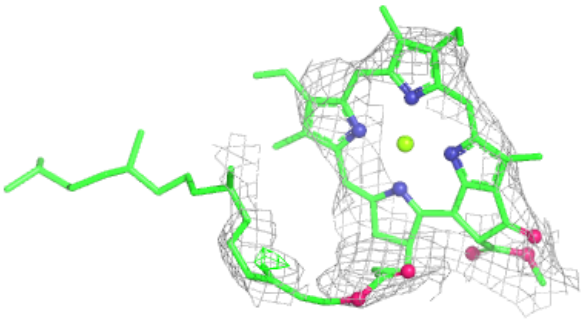


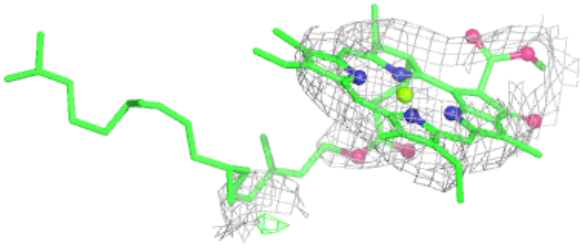




Electron density around CLA D 1008:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

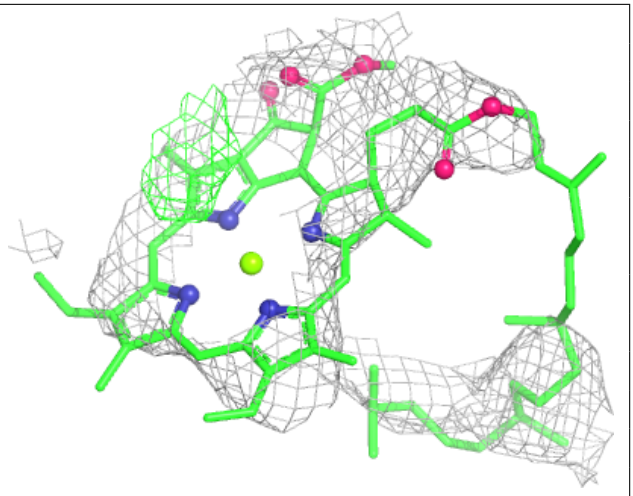


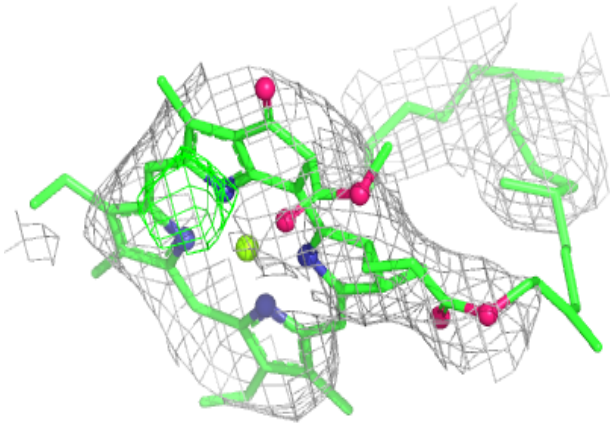


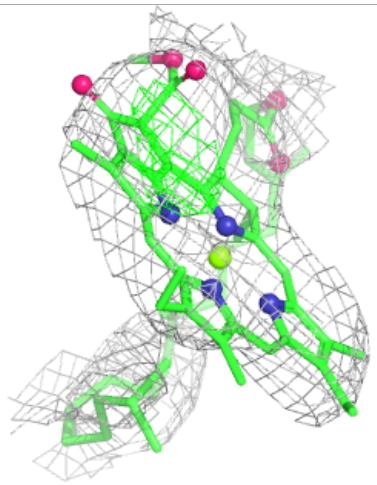


Electron density around CLA B 1023:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

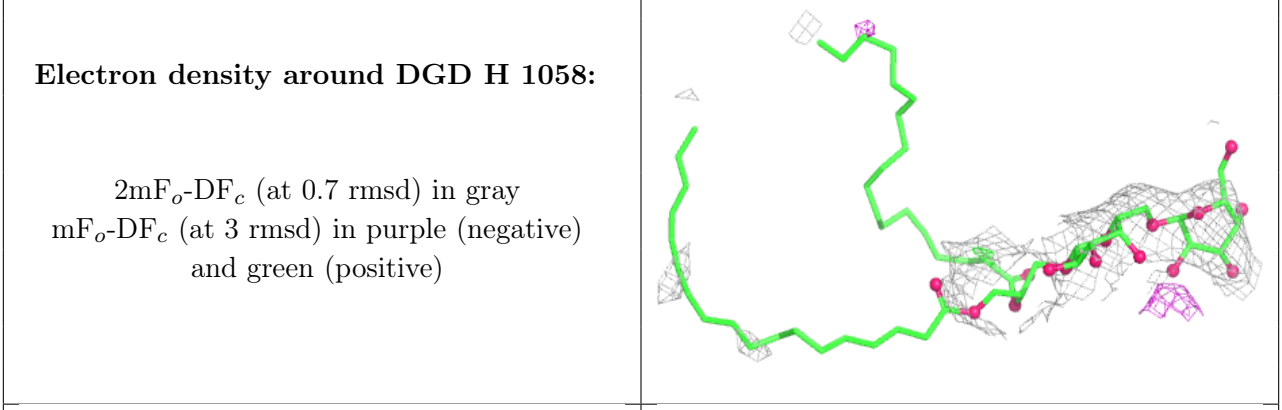






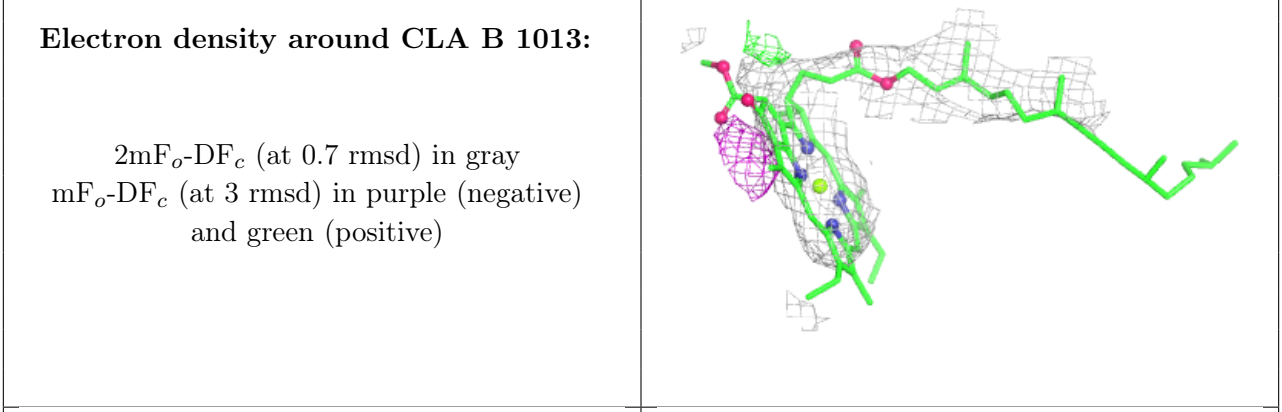
Electron density around DGD H 1058:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



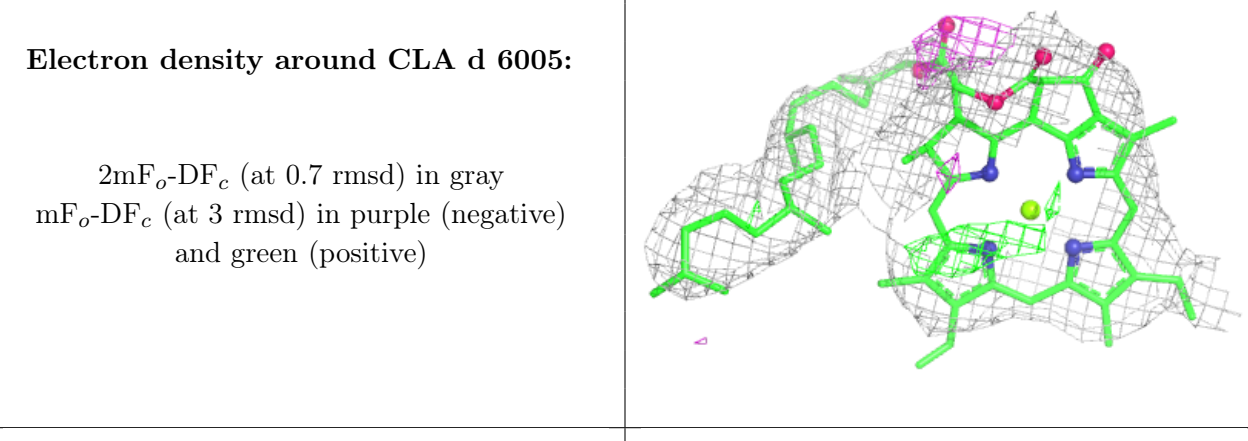
Electron density around CLA B 1013:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



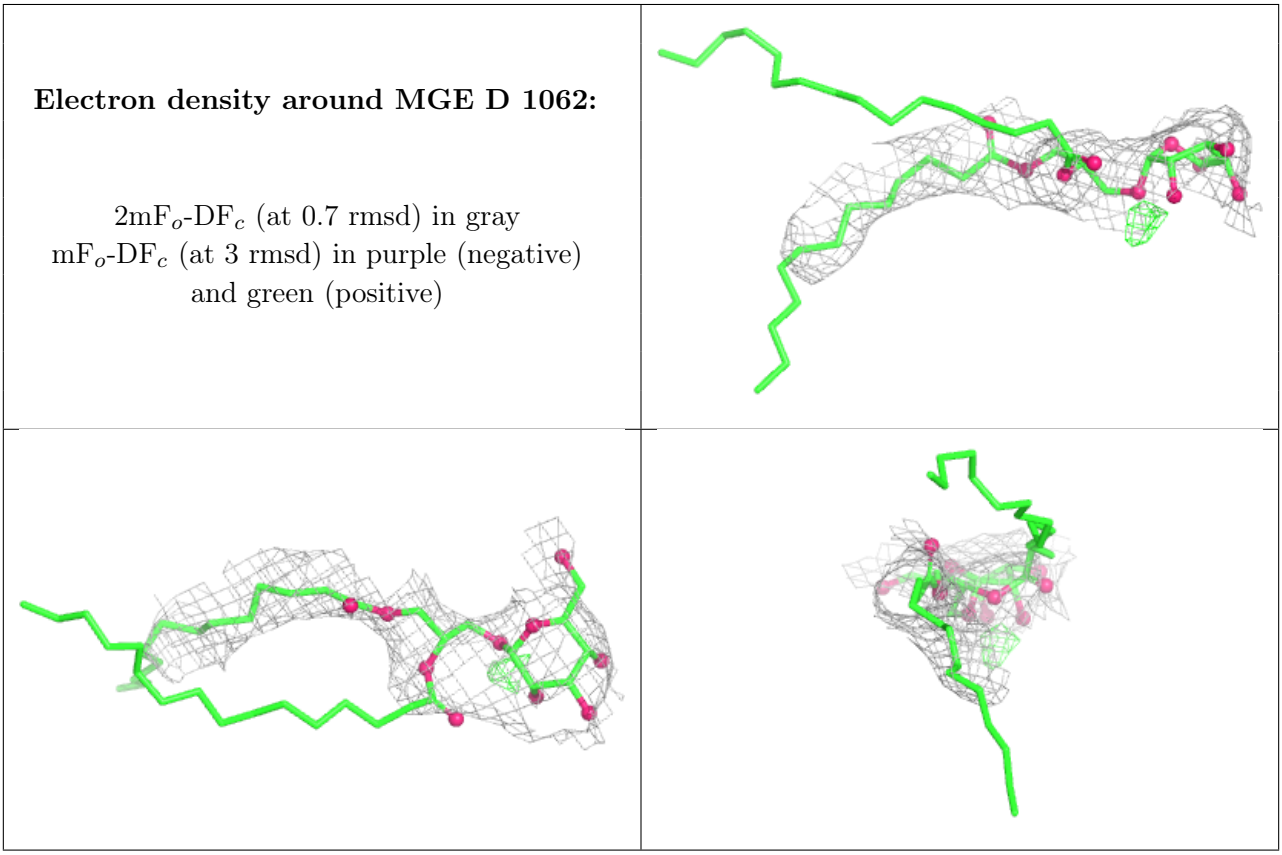
Electron density around CLA d 6005:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



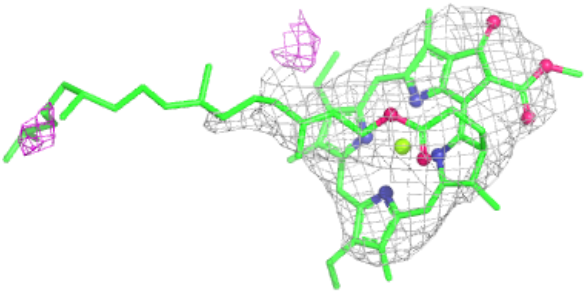
Electron density around MGE D 1062:

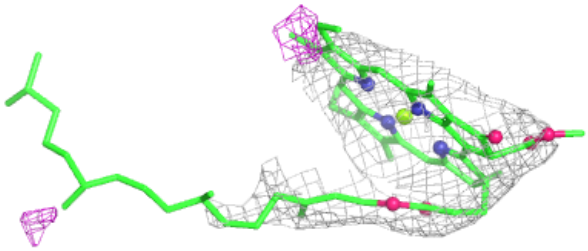
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

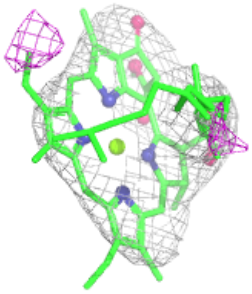


Electron density around CLA b 6016:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

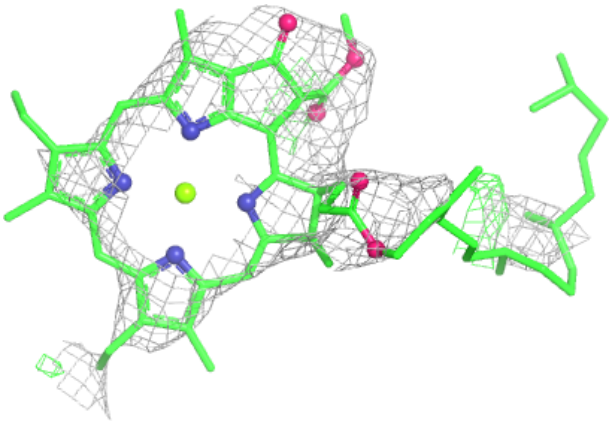


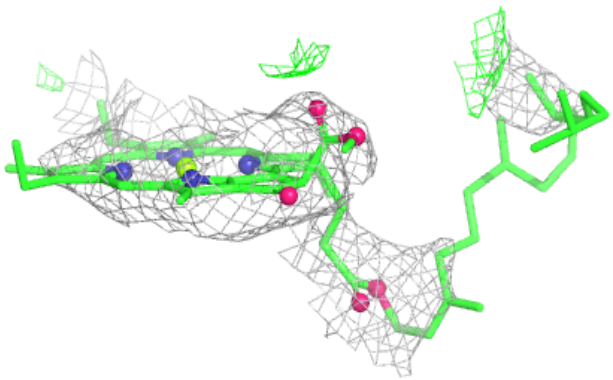


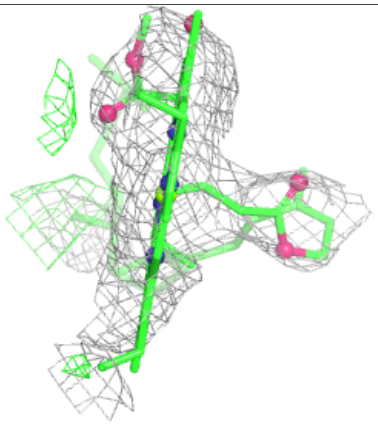


Electron density around CLA b 6020:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

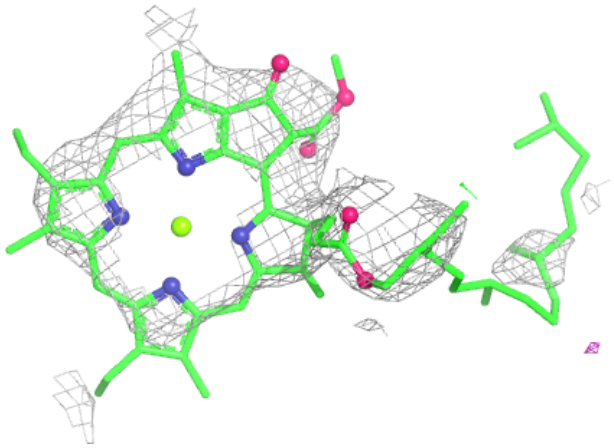


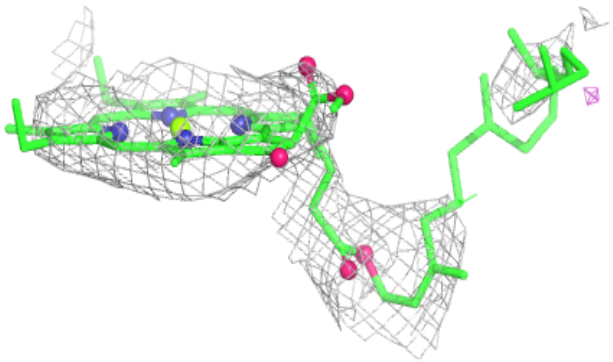


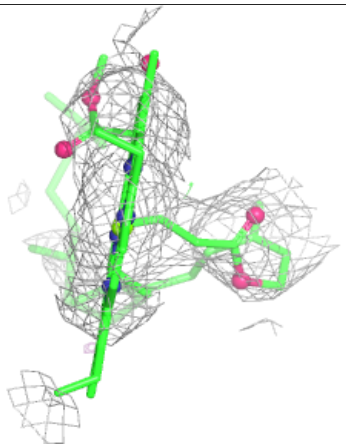


Electron density around CLA B 1020:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

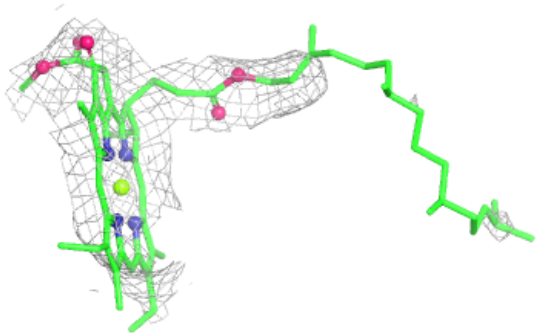


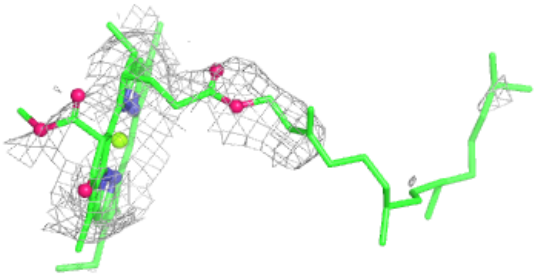


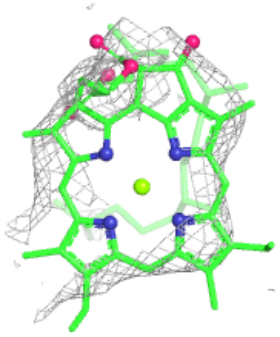


Electron density around CLA C 1030:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

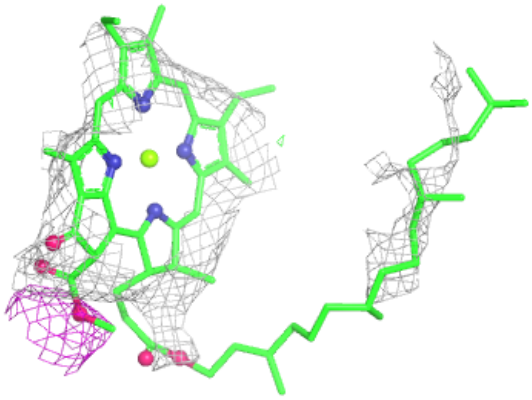


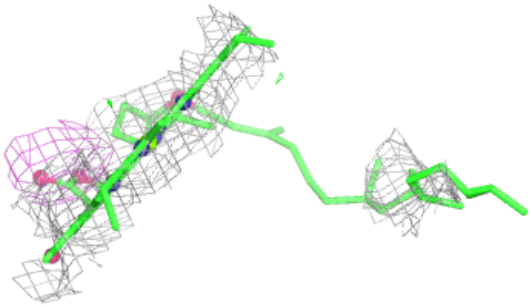


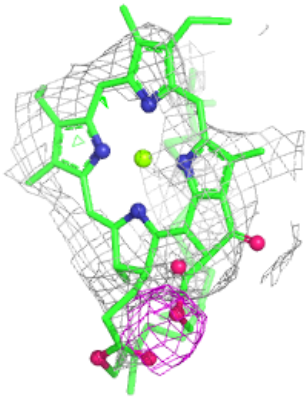


Electron density around CLA C 1031:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

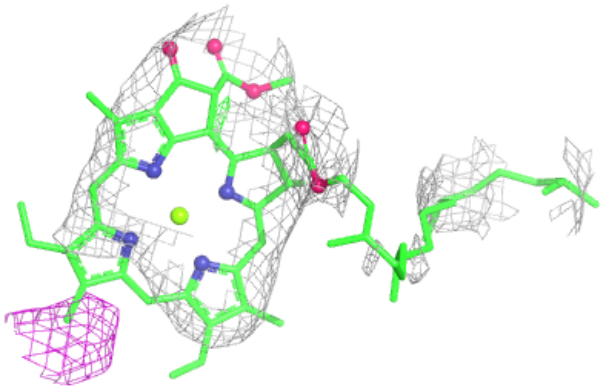


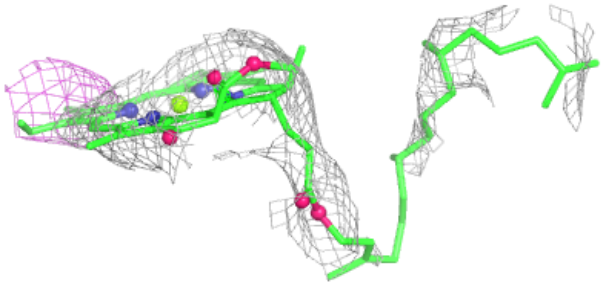


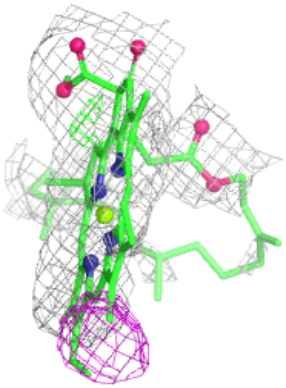


Electron density around CLA A 1006:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

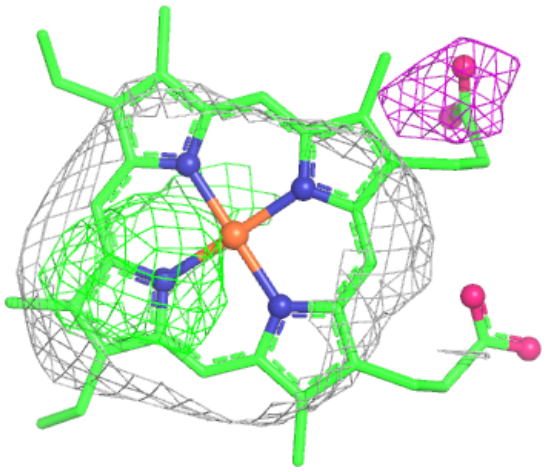


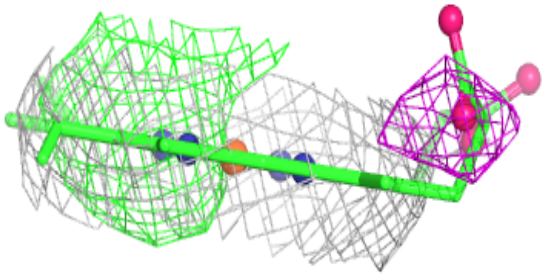


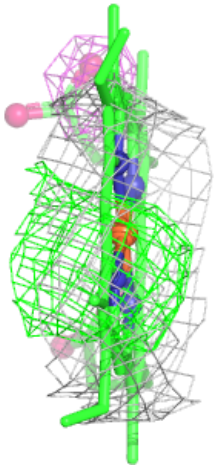


Electron density around HEM E 1040:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

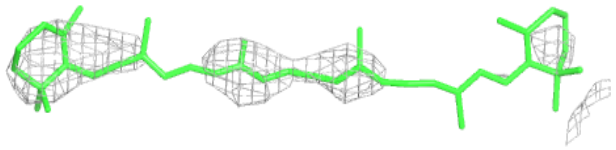


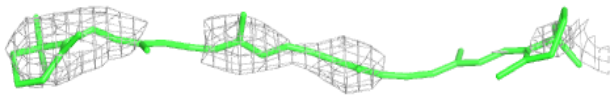


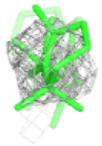


Electron density around BCR C 1054:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

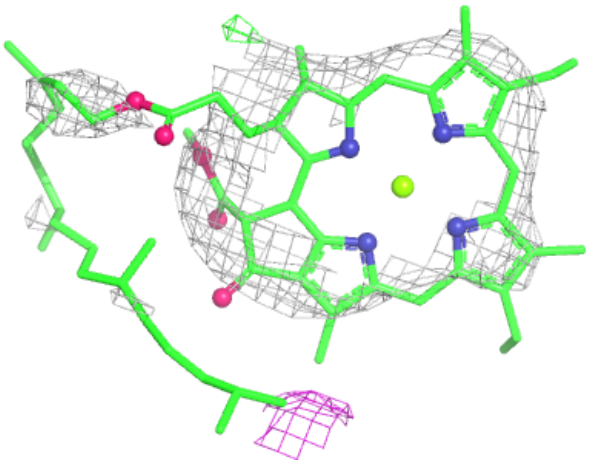


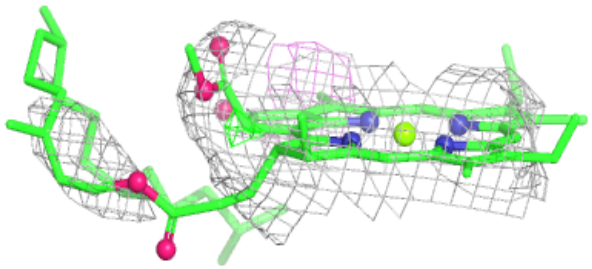


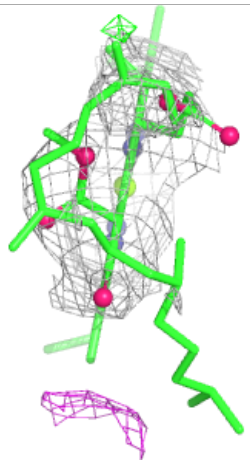


Electron density around CLA b 6018:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

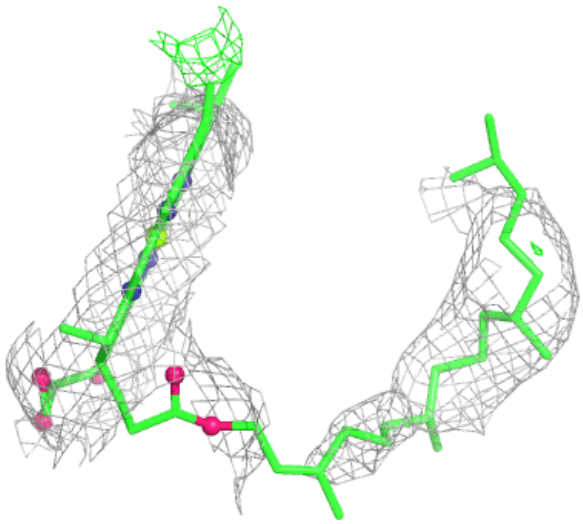


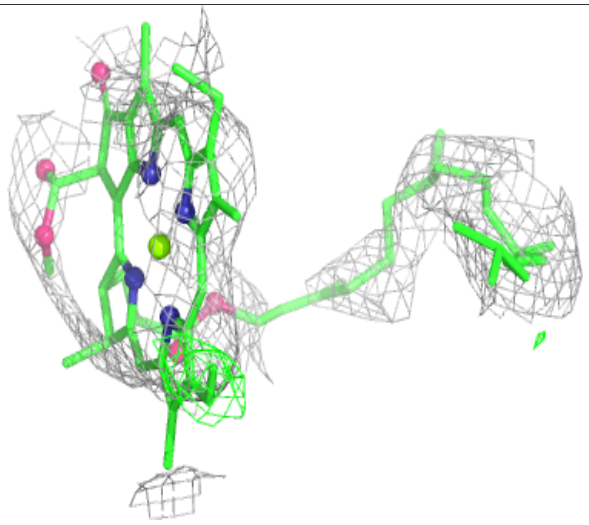


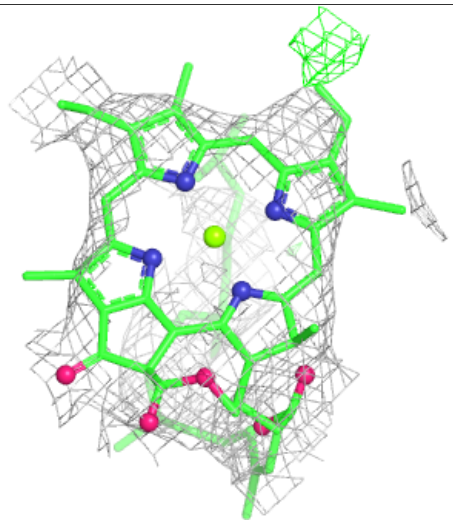


Electron density around CLA b 6019:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

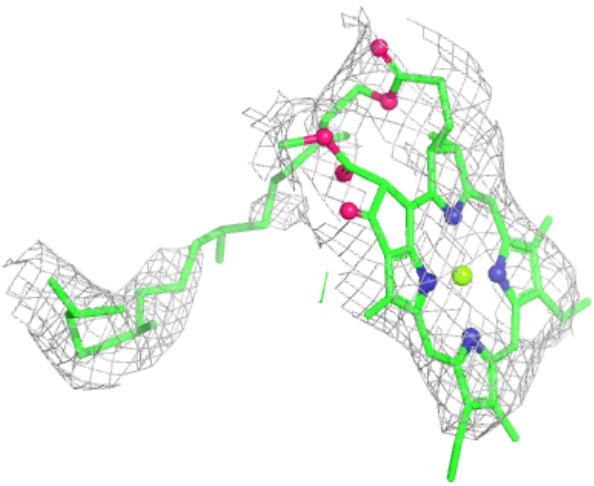


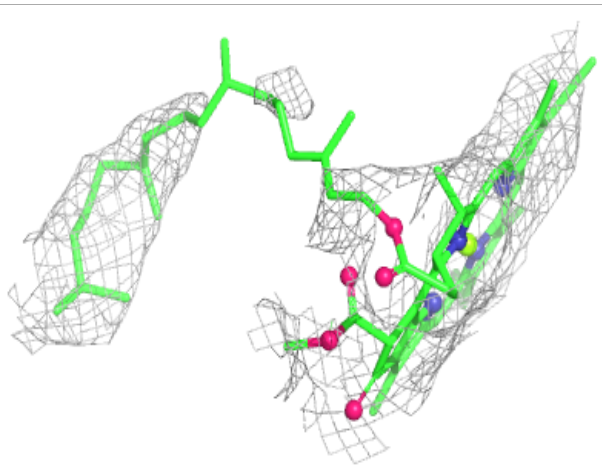


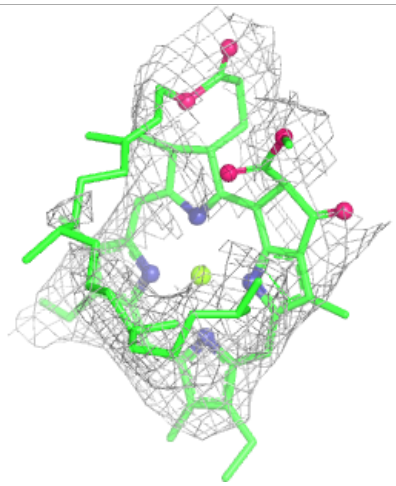


Electron density around CLA B 1021:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

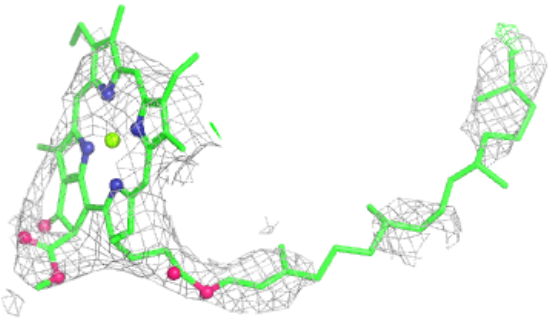


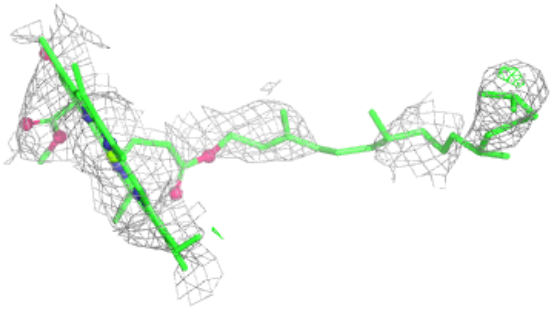


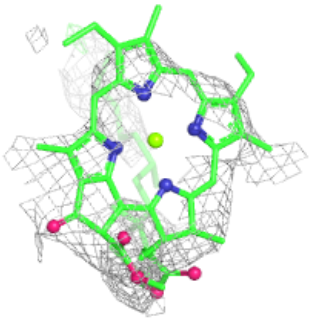


Electron density around CLA H 1017:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

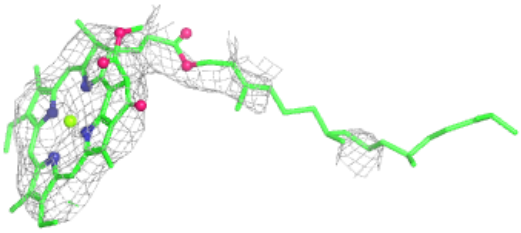


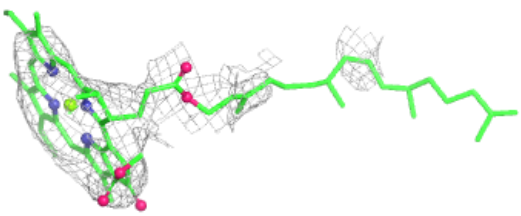


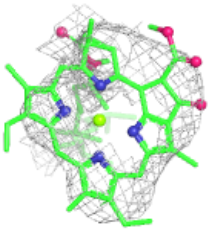


Electron density around CLA B 1012:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

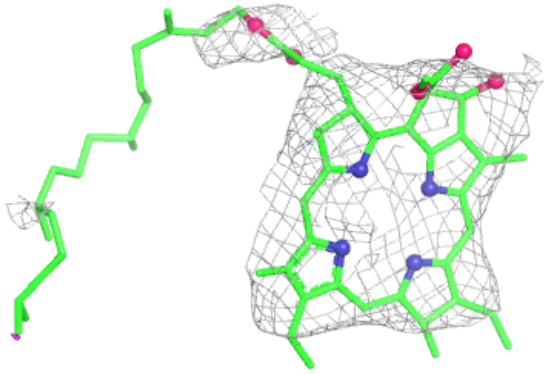


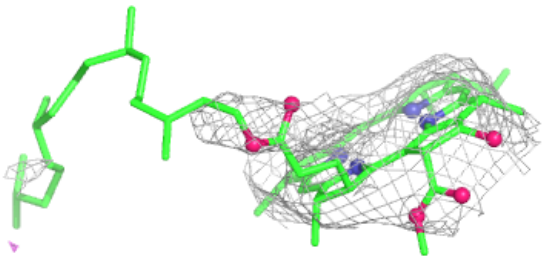


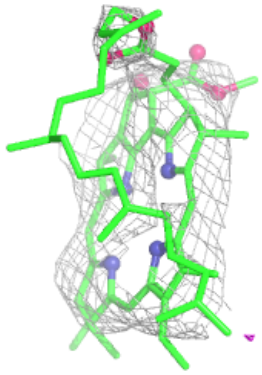


Electron density around PHO A 1039:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

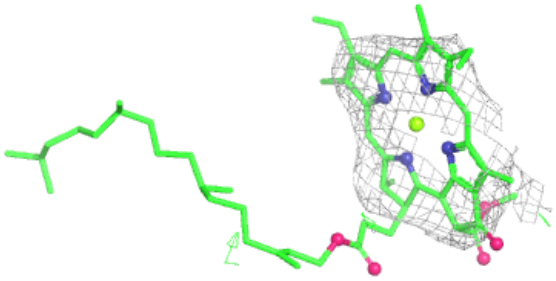


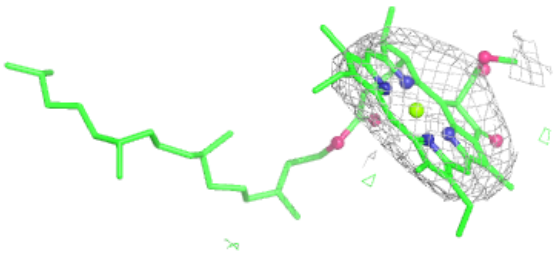


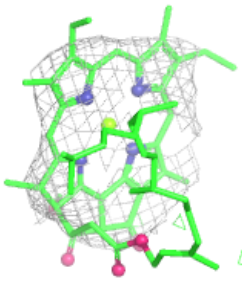


Electron density around CLA C 1035:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

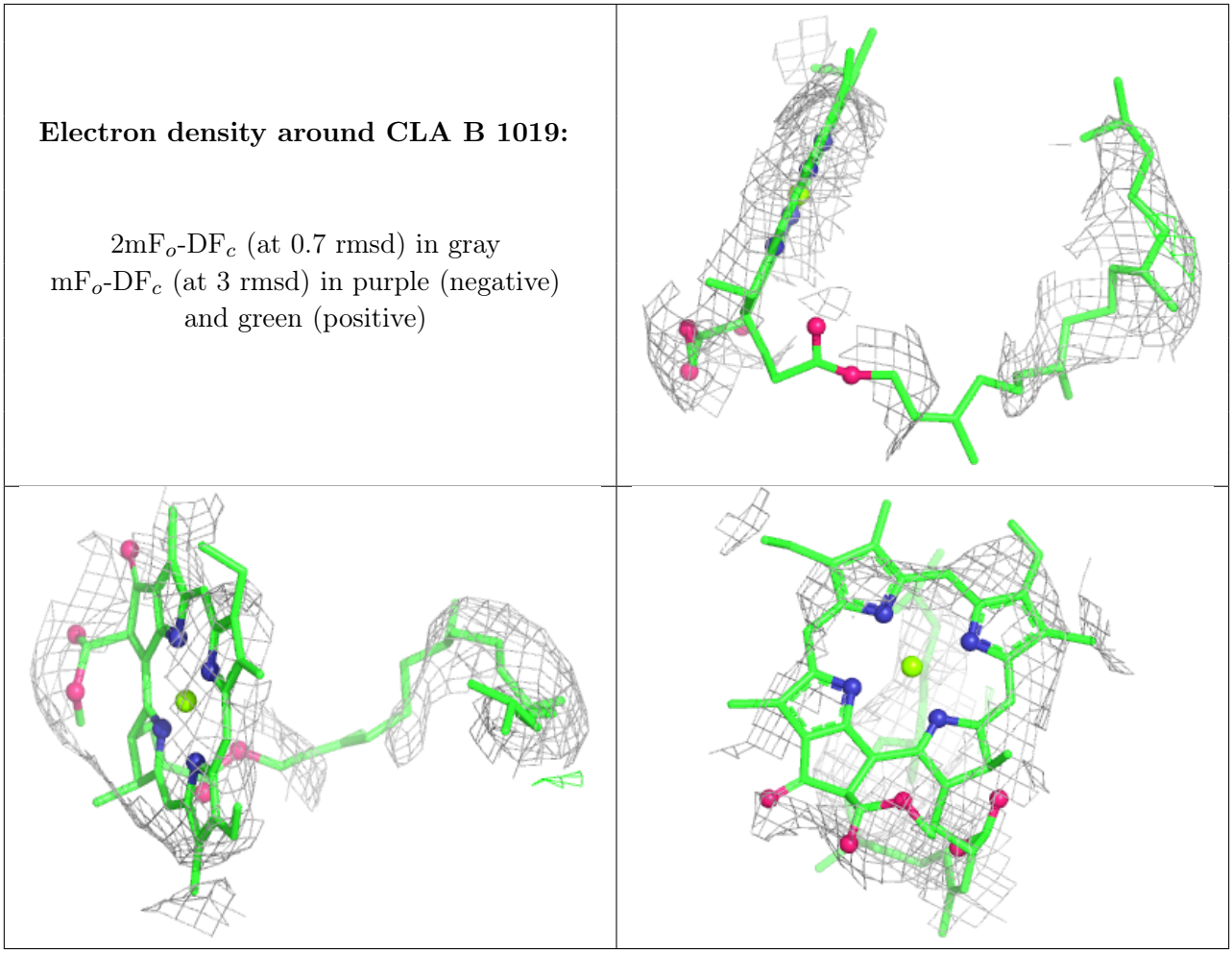






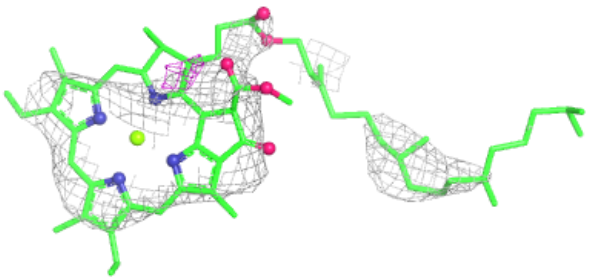
Electron density around CLA B 1019:

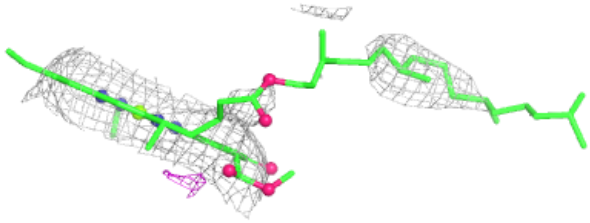
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

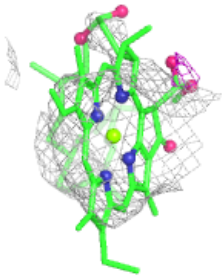


Electron density around CLA B 1010:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



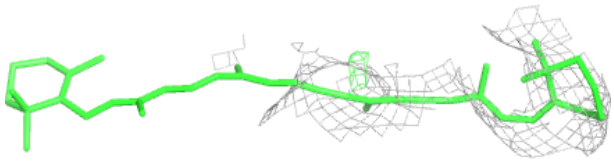


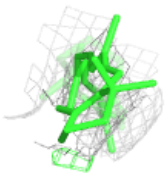


Electron density around BCR k 6051:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

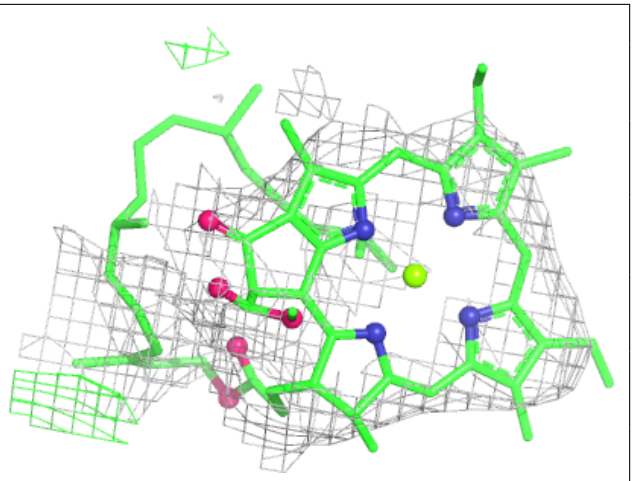






Electron density around CLA c 6026:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

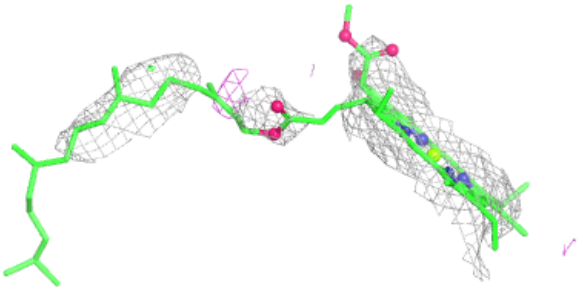


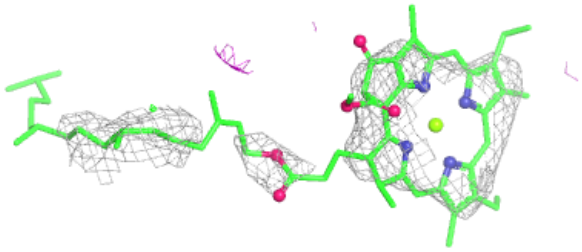


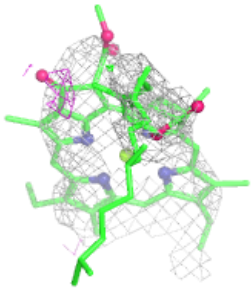


Electron density around CLA D 1004:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

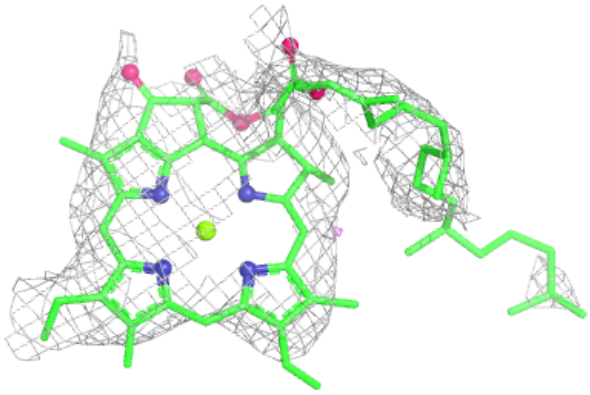


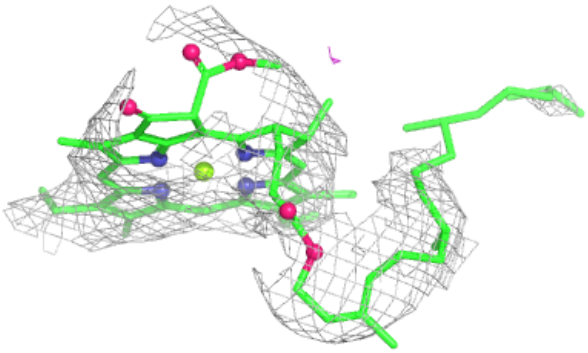


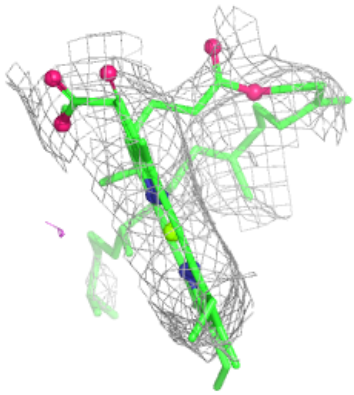


Electron density around CLA D 1005:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

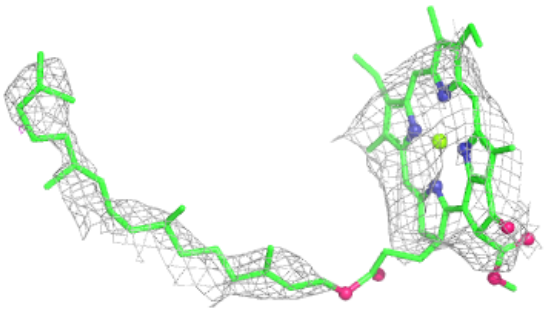


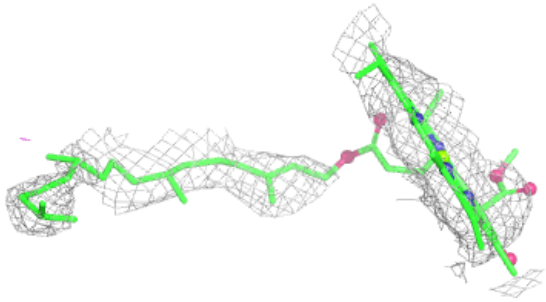


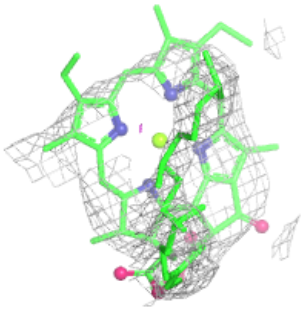


Electron density around CLA b 6017:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

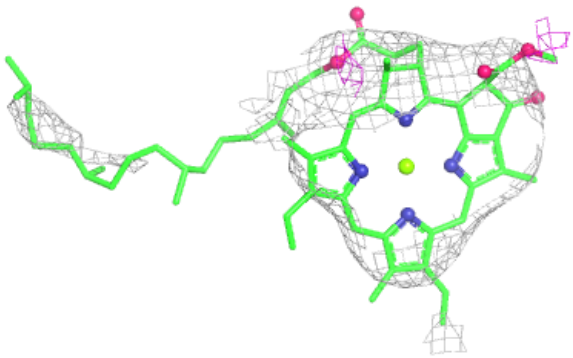


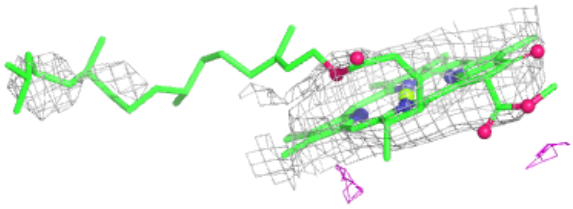




Electron density around CLA B 1011:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

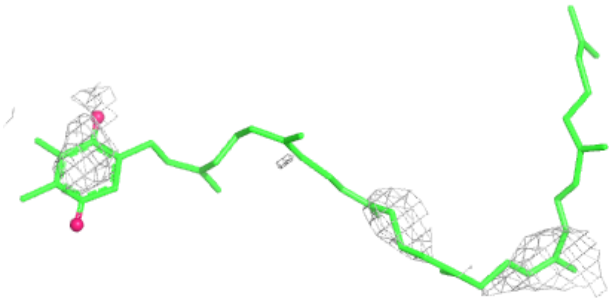


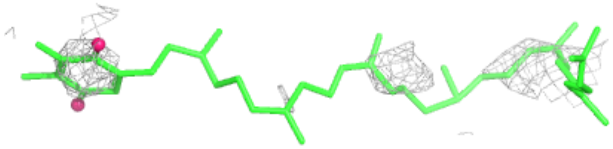




Electron density around PQ9 D 1042:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

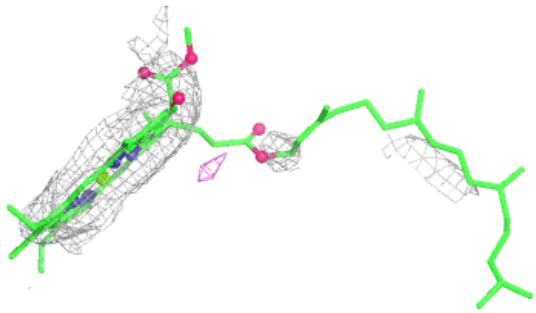


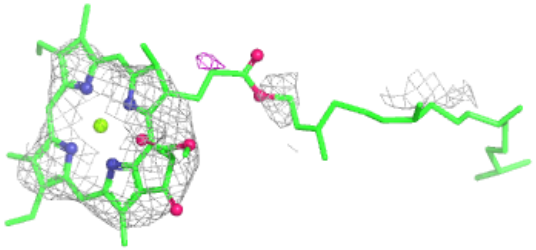


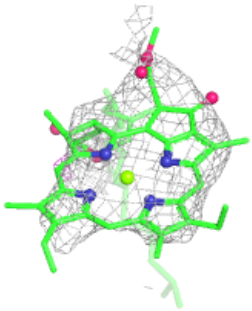


Electron density around CLA d 6004:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

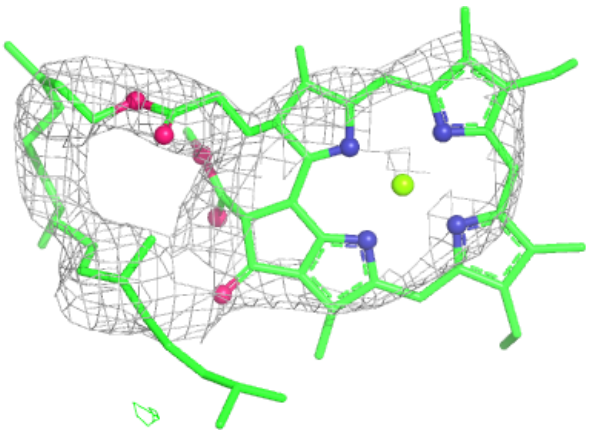


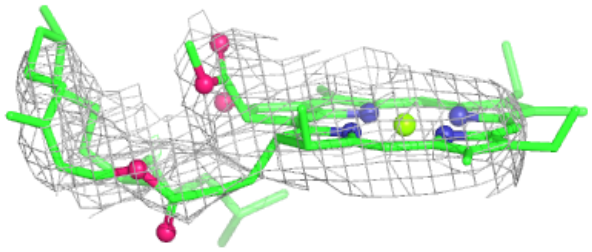




Electron density around CLA B 1018:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

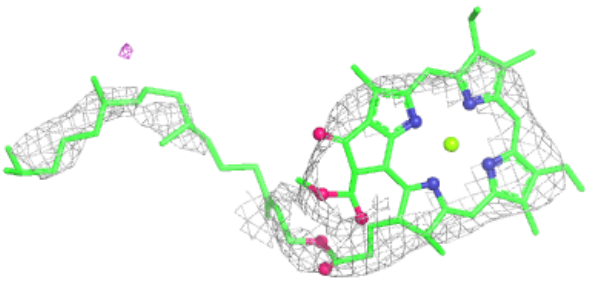


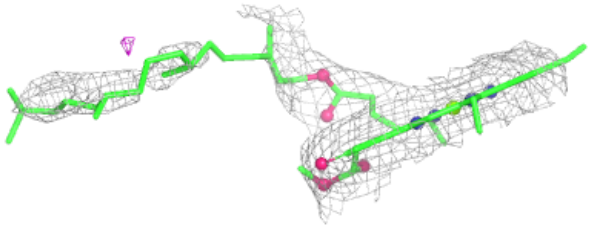




Electron density around CLA b 6010:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

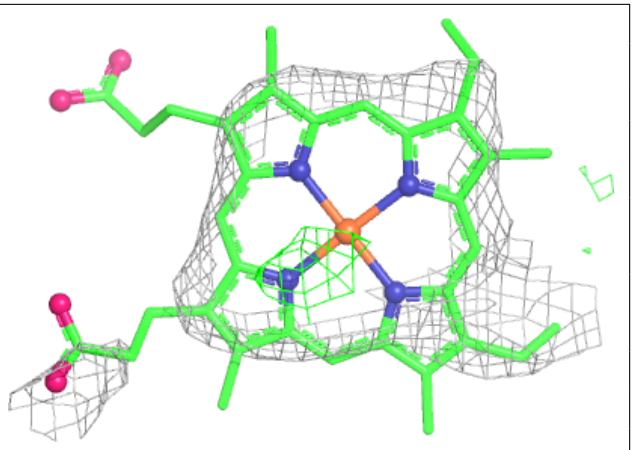


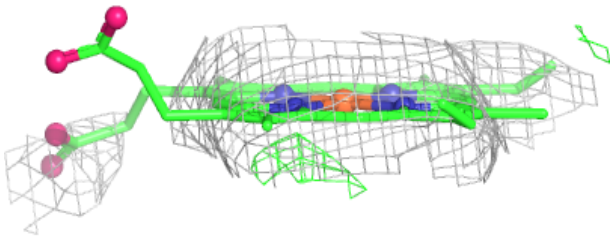


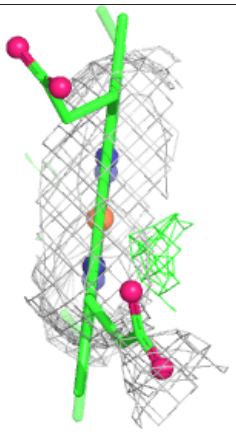


Electron density around HEM v 6041:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

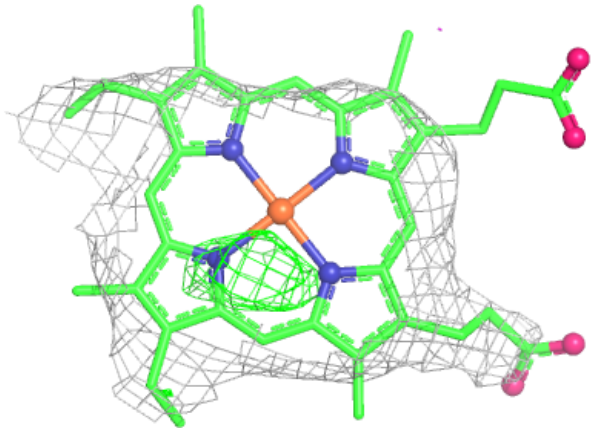


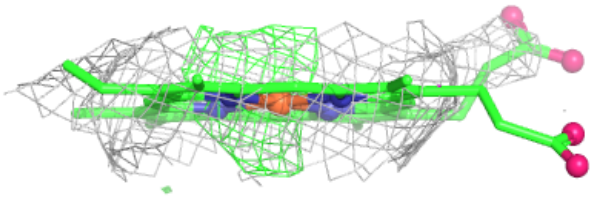


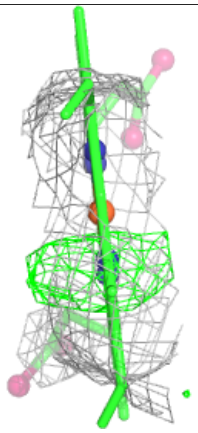


Electron density around HEM V 1041:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)







6.5 Other polymers

There are no such residues in this entry.