Full wwPDB X-ray Structure Validation Report (i)

Aug 5, 2026 – 09:42 PM EDT

PDB ID	:	3A0H / pdb_00003a0h
Title	:	Crystal structure of I-substituted Photosystem II complex
Authors	:	Kawakami, K.; Umena, Y.; Kamiya, N.; Shen, J.-R.
Deposited on	:	2009-03-17
Resolution	:	4.00 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:

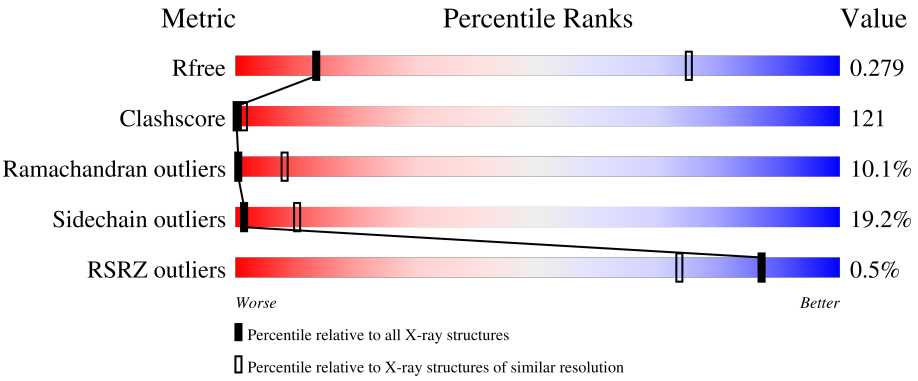
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal 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 4.00 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	1082 (4.20-3.80)
Clashscore	190562	1129 (4.20-3.80)
Ramachandran outliers	187476	1064 (4.20-3.80)
Sidechain outliers	187428	1055 (4.20-3.80)
RSRZ outliers	180081	1082 (4.20-3.80)

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	% 11% 56% 26%
1	a	344	% 11% 56% 26%
2	B	488	% 17% 56% 24%
2	b	488	17% 56% 24%
3	C	447	% 14% 59% 23%

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Mol	Chain	Length	Quality of chain
3	c	447	14% 59% 23%
4	D	340	11% 63% 24%
4	d	340	10% 64% 23%
5	E	83	20% 53% 20% 5%
5	e	83	22% 51% 22% 5%
6	F	44	9% 50% 16% 5% 20%
6	f	44	9% 52% 14% 5% 20%
7	H	64	2% 14% 56% 25% 5%
7	h	64	14% 56% 25% 5%
8	I	35	6% 54% 40%
8	i	35	6% 54% 40%
9	J	40	12% 48% 25% 15%
9	j	40	12% 48% 25% 15%
10	K	36	3% 14% 47% 39%
10	k	36	17% 44% 36%
11	L	37	19% 57% 22%
11	l	37	16% 59% 22%
12	M	36	8% 78% 11%
12	m	36	3% 8% 78% 11%
13	O	242	20% 55% 21%
13	o	242	20% 55% 21%
14	T	30	10% 67% 20%
14	t	30	13% 63% 17% 7%
15	U	98	21% 58% 17%
15	u	98	22% 57% 17%

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Mol	Chain	Length	Quality of chain
16	V	137	2% 19% 60% 20%
16	v	137	21% 57% 20%
17	X	34	3% 32% 44% 24%
17	x	34	29% 47% 24%
18	Y	28	29% 25% 36% 11%
18	y	28	29% 25% 36% 11%
19	N	23	70% 30%
19	n	23	70% 30%
20	Z	62	15% 60% 26%
20	z	62	2% 15% 60% 26%

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
22	CLA	A	1003	X	-	X	-
22	CLA	A	1006	X	-	X	-
22	CLA	A	1007	-	-	X	-
22	CLA	B	1009	X	-	X	-
22	CLA	B	1010	X	-	X	-
22	CLA	B	1011	X	-	X	-
22	CLA	B	1012	X	-	X	-
22	CLA	B	1013	X	-	X	-
22	CLA	B	1014	X	-	X	-
22	CLA	B	1015	X	-	X	-
22	CLA	B	1016	-	-	X	-
22	CLA	B	1018	X	-	X	-
22	CLA	B	1019	X	-	X	-
22	CLA	B	1020	X	-	X	-
22	CLA	B	1021	X	-	X	-
22	CLA	B	1022	X	-	X	-
22	CLA	B	1023	X	-	X	-
22	CLA	B	1024	-	-	X	-
22	CLA	C	1025	X	-	X	-
22	CLA	C	1026	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	C	1027	X	-	X	-
22	CLA	C	1028	X	-	X	-
22	CLA	C	1029	X	-	X	-
22	CLA	C	1030	X	-	X	-
22	CLA	C	1031	X	-	X	-
22	CLA	C	1032	X	-	X	-
22	CLA	C	1033	X	-	X	-
22	CLA	C	1035	X	-	X	-
22	CLA	C	1036	X	-	X	-
22	CLA	C	1037	X	-	X	-
22	CLA	D	1004	X	-	X	-
22	CLA	D	1005	X	-	X	-
22	CLA	D	1008	X	-	X	-
22	CLA	H	1017	X	-	X	-
22	CLA	K	1034	X	-	X	-
22	CLA	a	6003	X	-	X	-
22	CLA	a	6006	X	-	X	-
22	CLA	a	6007	-	-	X	-
22	CLA	b	6009	X	-	X	-
22	CLA	b	6010	X	-	X	-
22	CLA	b	6011	X	-	X	-
22	CLA	b	6012	X	-	X	-
22	CLA	b	6013	X	-	X	-
22	CLA	b	6014	X	-	X	-
22	CLA	b	6015	X	-	X	-
22	CLA	b	6016	-	-	X	-
22	CLA	b	6018	X	-	X	-
22	CLA	b	6019	X	-	X	-
22	CLA	b	6020	X	-	X	-
22	CLA	b	6021	X	-	X	-
22	CLA	b	6022	X	-	X	-
22	CLA	b	6023	X	-	X	-
22	CLA	b	6024	-	-	X	-
22	CLA	c	6025	X	-	X	-
22	CLA	c	6026	-	-	X	-
22	CLA	c	6027	X	-	X	-
22	CLA	c	6028	X	-	X	-
22	CLA	c	6029	X	-	X	-
22	CLA	c	6030	X	-	X	-
22	CLA	c	6031	X	-	X	-
22	CLA	c	6032	X	-	X	-
22	CLA	c	6033	X	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	CLA	c	6035	X	-	X	-
22	CLA	c	6036	X	-	X	-
22	CLA	c	6037	X	-	X	-
22	CLA	d	6004	X	-	X	-
22	CLA	d	6005	X	-	X	-
22	CLA	d	6008	X	-	X	-
22	CLA	h	6017	X	-	X	-
22	CLA	k	6034	X	-	X	-
23	PHO	A	1038	X	-	X	-
23	PHO	D	1039	X	-	X	-
23	PHO	a	6038	X	-	X	-
23	PHO	d	6039	X	-	X	-
24	PQ9	A	1043	-	-	X	-
24	PQ9	D	1042	-	-	X	-
24	PQ9	a	6043	-	-	X	-
24	PQ9	d	6042	-	-	X	-
25	BCR	A	1044	-	-	X	-
25	BCR	B	1045	-	-	X	-
25	BCR	B	1047	-	-	X	-
25	BCR	B	1048	-	-	X	-
25	BCR	C	1052	-	-	X	-
25	BCR	C	1054	-	-	X	-
25	BCR	D	1050	-	-	X	-
25	BCR	H	1049	-	-	X	-
25	BCR	K	1051	-	-	X	-
25	BCR	T	6046	-	-	X	-
25	BCR	T	6048	-	-	X	-
25	BCR	a	6044	-	-	X	-
25	BCR	b	6045	-	-	X	-
25	BCR	b	6047	-	-	X	-
25	BCR	c	6054	-	-	X	-
25	BCR	d	6050	-	-	X	-
25	BCR	h	6049	-	-	X	-
25	BCR	k	6051	-	-	X	-
25	BCR	k	6052	-	-	X	-
25	BCR	t	1046	-	-	X	-
26	LHG	A	1063	-	-	X	-
26	LHG	a	6063	-	-	X	-
27	IOD	B	1067	-	-	X	X
27	IOD	D	1064	-	-	X	-
27	IOD	D	1068	-	-	X	X
27	IOD	T	1066	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
27	IOD	b	6067	-	-	-	X
27	IOD	d	6064	-	-	X	-
27	IOD	d	6068	-	-	X	-
27	IOD	t	6066	-	-	X	-
28	MGE	B	1060	-	-	X	-
28	MGE	D	1059	-	-	X	-
28	MGE	D	1062	-	-	X	-
28	MGE	L	1061	-	-	X	-
28	MGE	b	6060	-	-	X	-
28	MGE	d	6059	-	-	X	-
28	MGE	d	6062	-	-	X	-
28	MGE	l	6061	-	-	X	-
29	DGD	B	1058	-	-	X	-
29	DGD	C	1055	-	-	X	-
29	DGD	C	1056	-	-	X	-
29	DGD	C	1057	-	-	X	-
29	DGD	b	6058	-	-	X	-
29	DGD	c	6055	-	-	X	-
29	DGD	c	6056	-	-	X	-
29	DGD	c	6057	-	-	X	-

2 Entry composition (i)

There are 31 unique types of molecules in this entry. The entry contains 48060 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	488	Total	C	N	O	S	0	0	0
			3835	2518	638	666	13			
2	b	488	Total	C	N	O	S	0	0	0
			3835	2518	638	666	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 1860	C 1162	N 314	O 380	S 4	0	0	0
13	o	242	Total 1860	C 1162	N 314	O 380	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			

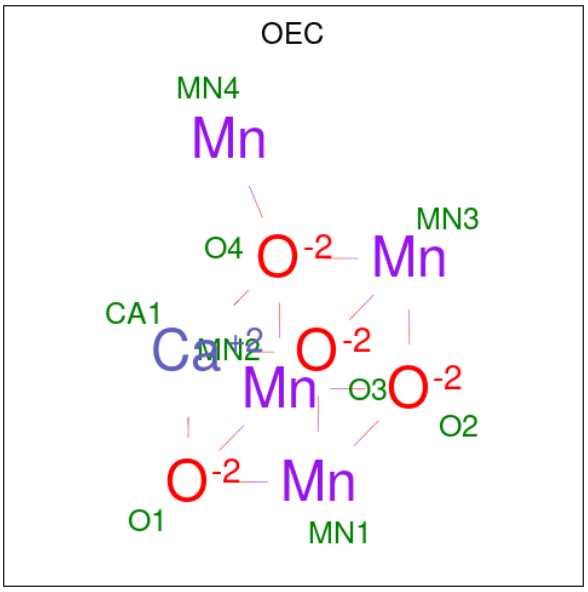
- Molecule 19 is a protein called Photosystem II reaction center protein Y.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
19	N	23	Total	C	N	O	0	0	0
			116	69	23	24			
19	n	23	Total	C	N	O	0	0	0
			116	69	23	24			

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

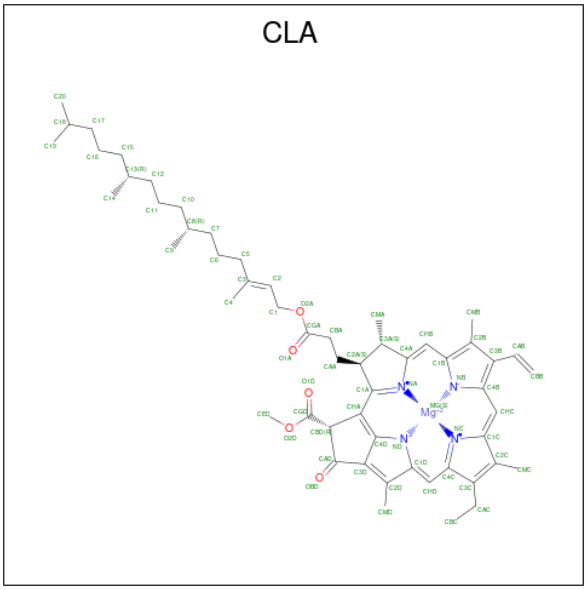
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	Z	62	Total	C	N	O	S	0	0	0
			479	328	72	77	2			
20	z	62	Total	C	N	O	S	0	0	0
			479	328	72	77	2			

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



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

- Molecule 22 is CHLOROPHYLL A (CCD ID: CLA) (formula: $C_{55}H_{72}MgN_4O_5$).



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

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
22	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	C	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	D	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	D	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	D	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	H	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	K	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	a	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	a	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	a	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

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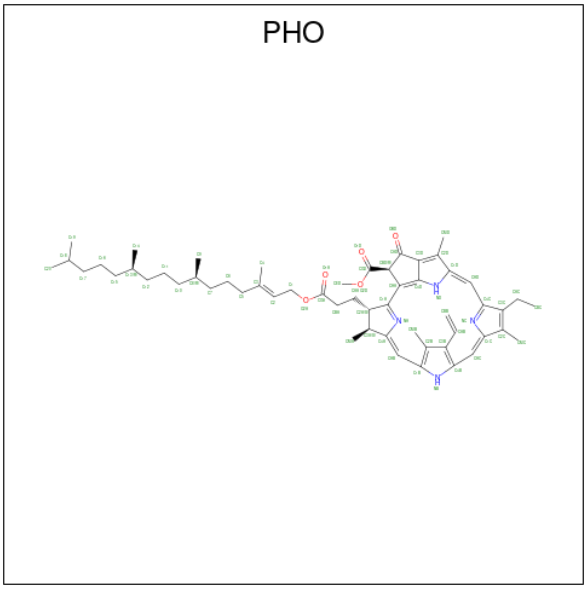
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	b	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5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

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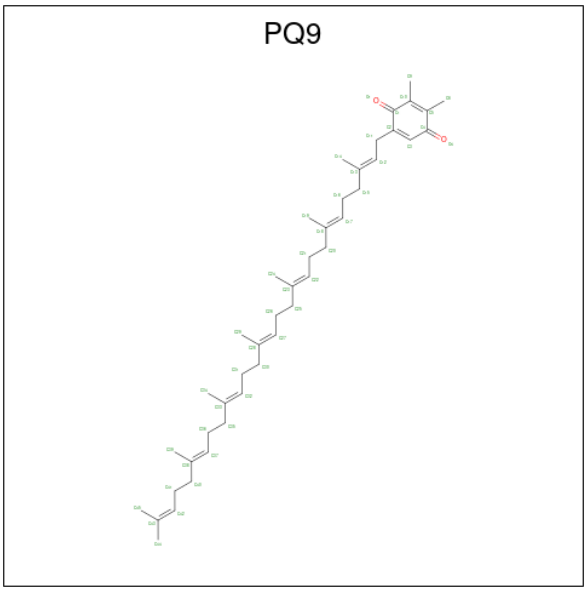
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
22	d	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	d	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	d	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	h	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		
22	k	1	Total	C	Mg	N	O	0	0
			65	55	1	4	5		

- Molecule 23 is PHEOPHYTIN A (CCD ID: PHO) (formula: $C_{55}H_{74}N_4O_5$).



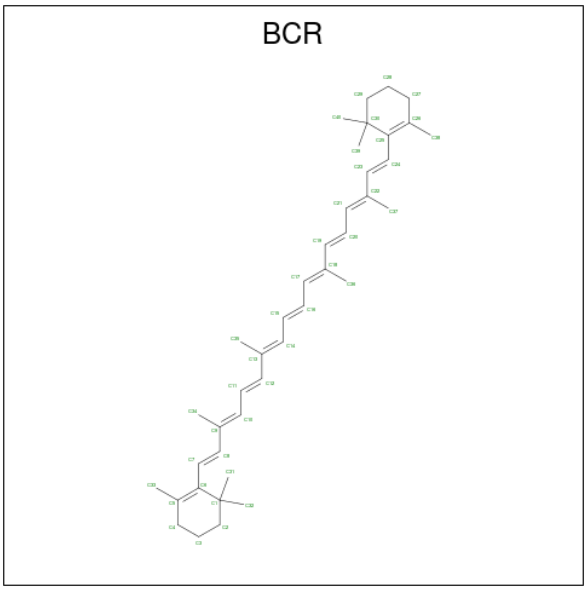
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
23	A	1	Total	C	N	O	0	0
			64	55	4	5		
23	D	1	Total	C	N	O	0	0
			64	55	4	5		
23	a	1	Total	C	N	O	0	0
			64	55	4	5		
23	d	1	Total	C	N	O	0	0
			64	55	4	5		

- Molecule 24 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: $C_{43}H_{64}O_2$).



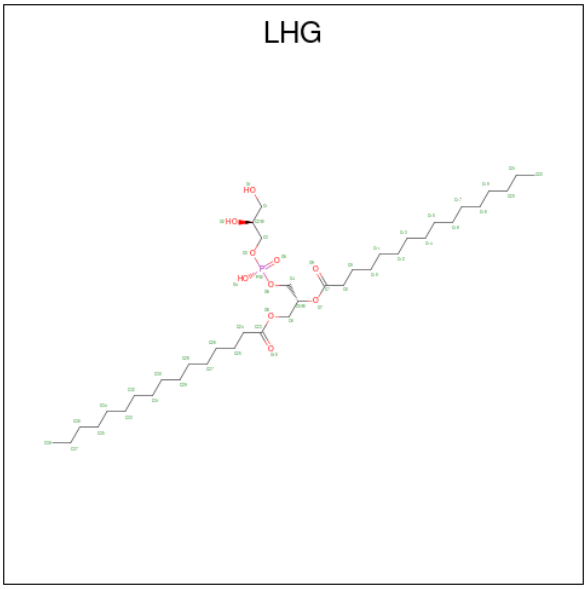
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
24	A	1	Total C O 45 43 2	0	0
24	D	1	Total C O 45 43 2	0	0
24	a	1	Total C O 45 43 2	0	0
24	d	1	Total C O 45 43 2	0	0

- Molecule 25 is BETA-CAROTENE (CCD ID: BCR) (formula: $C_{40}H_{56}$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
25	A	1	Total C 40 40	0	0
25	B	1	Total C 40 40	0	0
25	B	1	Total C 40 40	0	0
25	B	1	Total C 40 40	0	0
25	C	1	Total C 40 40	0	0
25	C	1	Total C 40 40	0	0
25	D	1	Total C 40 40	0	0
25	H	1	Total C 40 40	0	0
25	K	1	Total C 40 40	0	0
25	T	1	Total C 40 40	0	0
25	T	1	Total C 40 40	0	0
25	Z	1	Total C 40 40	0	0
25	a	1	Total C 40 40	0	0
25	b	1	Total C 40 40	0	0
25	b	1	Total C 40 40	0	0
25	c	1	Total C 40 40	0	0
25	d	1	Total C 40 40	0	0
25	h	1	Total C 40 40	0	0
25	k	1	Total C 40 40	0	0
25	k	1	Total C 40 40	0	0
25	t	1	Total C 40 40	0	0
25	z	1	Total C 40 40	0	0

- Molecule 26 is 1,2-DIPALMITOYL-PHOSPHATIDYL-GLYCEROLE (CCD ID: LHG) (formula: $C_{38}H_{75}O_{10}P$).

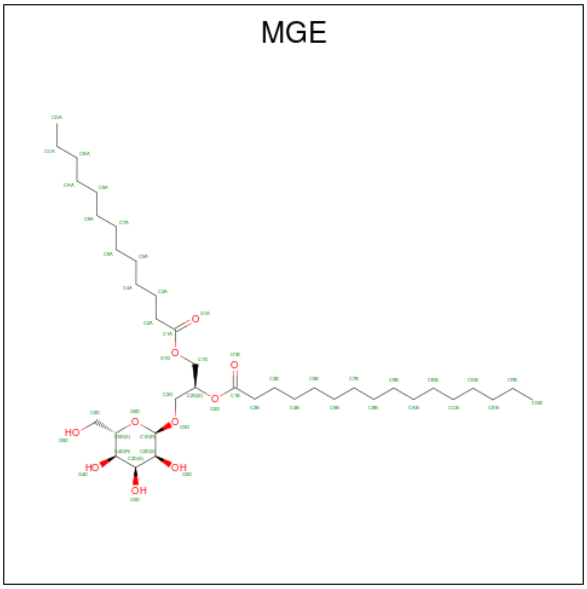


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
26	A	1	Total	C	O	P	0	0
			49	38	10	1		
26	a	1	Total	C	O	P	0	0
			49	38	10	1		

- Molecule 27 is IODIDE ION (CCD ID: IOD) (formula: I).

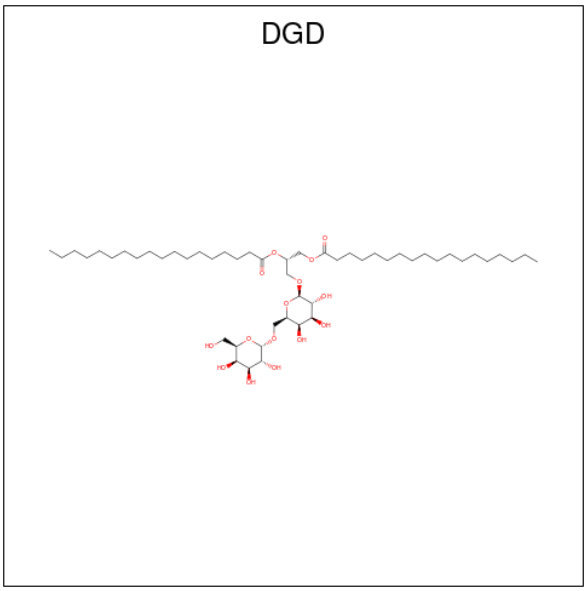
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
27	A	1	Total	I	0	0
			1	1		
27	B	1	Total	I	0	0
			1	1		
27	D	2	Total	I	0	0
			2	2		
27	T	1	Total	I	0	0
			1	1		
27	a	1	Total	I	0	0
			1	1		
27	b	1	Total	I	0	0
			1	1		
27	d	2	Total	I	0	0
			2	2		
27	t	1	Total	I	0	0
			1	1		

- Molecule 28 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
28	B	1	Total C O 48 38 10	0	0
28	D	1	Total C O 48 38 10	0	0
28	D	1	Total C O 48 38 10	0	0
28	L	1	Total C O 48 38 10	0	0
28	b	1	Total C O 48 38 10	0	0
28	d	1	Total C O 48 38 10	0	0
28	d	1	Total C O 48 38 10	0	0
28	l	1	Total C O 48 38 10	0	0

- Molecule 29 is DIGALACTOSYL DIACYL GLYCEROL (DGDG) (CCD ID: DGD) (formula: $C_{51}H_{96}O_{15}$).

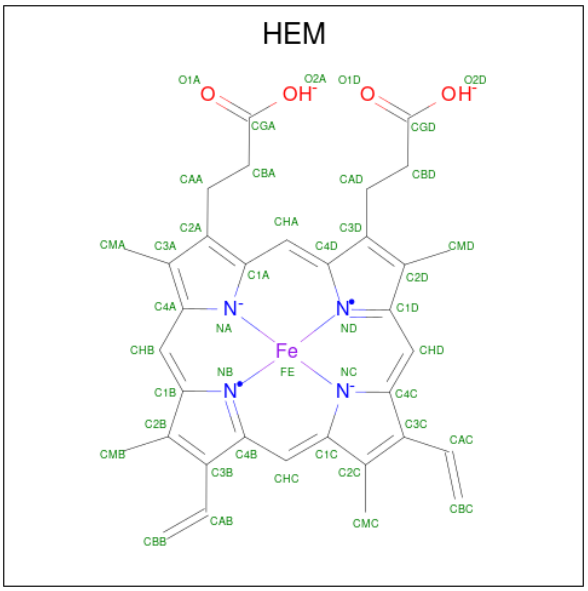


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
29	B	1	Total C O 66 51 15	0	0
29	C	1	Total C O 66 51 15	0	0
29	C	1	Total C O 66 51 15	0	0
29	C	1	Total C O 66 51 15	0	0
29	b	1	Total C O 66 51 15	0	0
29	c	1	Total C O 66 51 15	0	0
29	c	1	Total C O 66 51 15	0	0
29	c	1	Total C O 66 51 15	0	0

- Molecule 30 is FE (II) ION (CCD ID: FE2) (formula: Fe).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
30	D	1	Total Fe 1 1	0	0
30	a	1	Total Fe 1 1	0	0

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



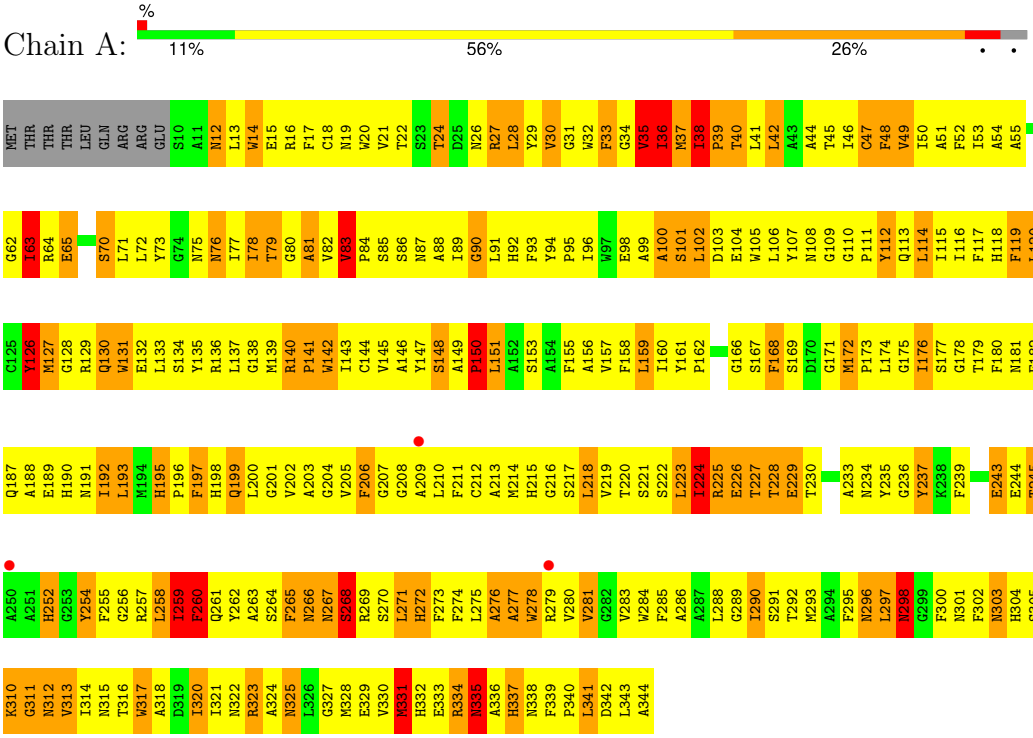
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
31	F	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
31	V	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
31	f	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		
31	v	1	Total	C	Fe	N	O	0	0
			43	34	1	4	4		

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.

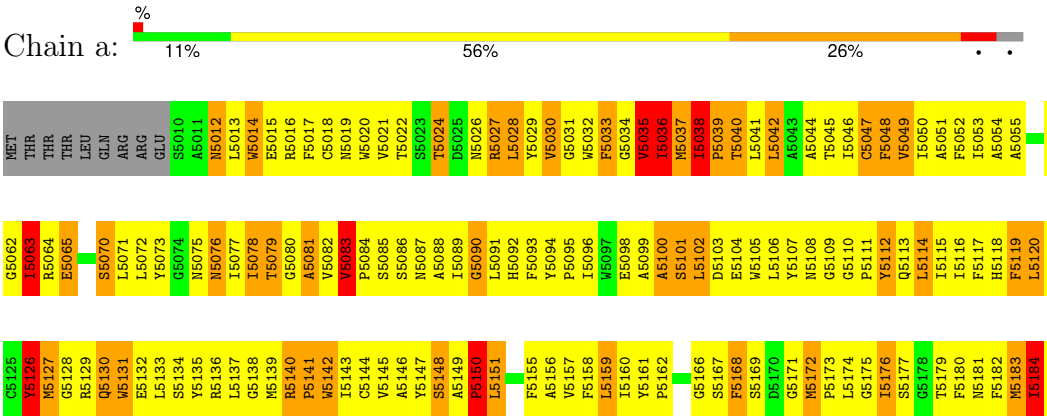
• Molecule 1: Photosystem Q(B) protein

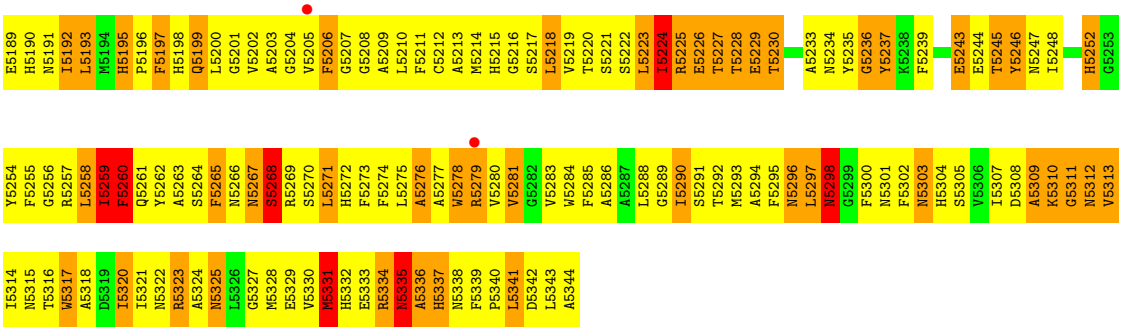
Chain A:



• Molecule 1: Photosystem Q(B) protein

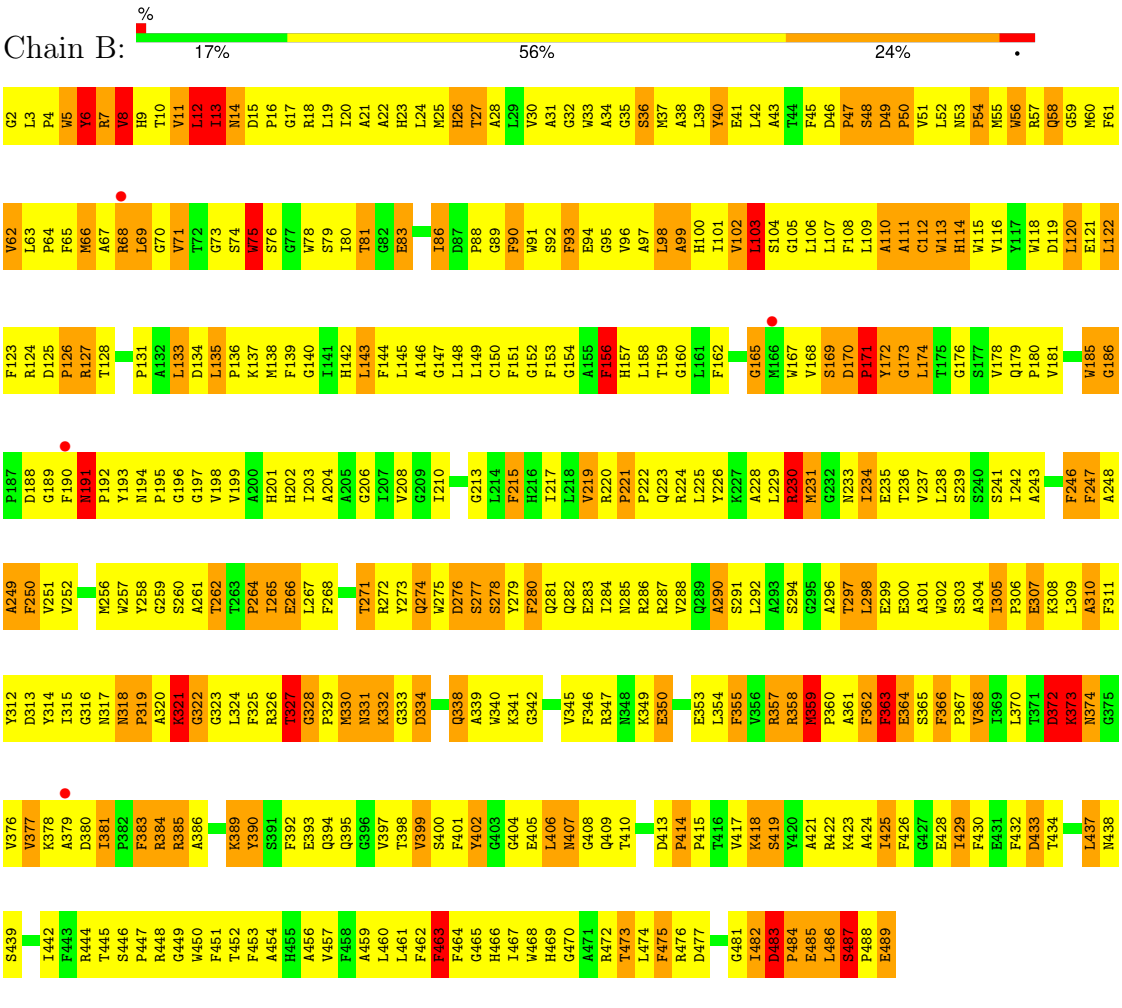
Chain a:





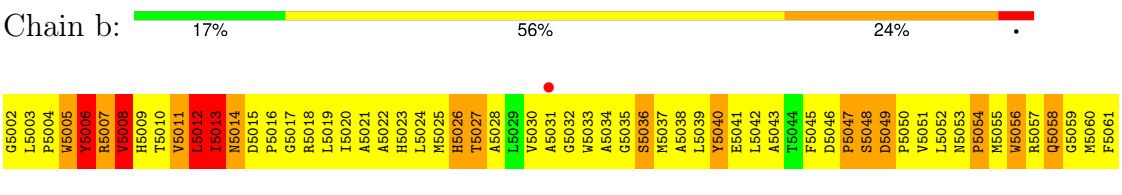
• Molecule 2: Photosystem II core light harvesting protein

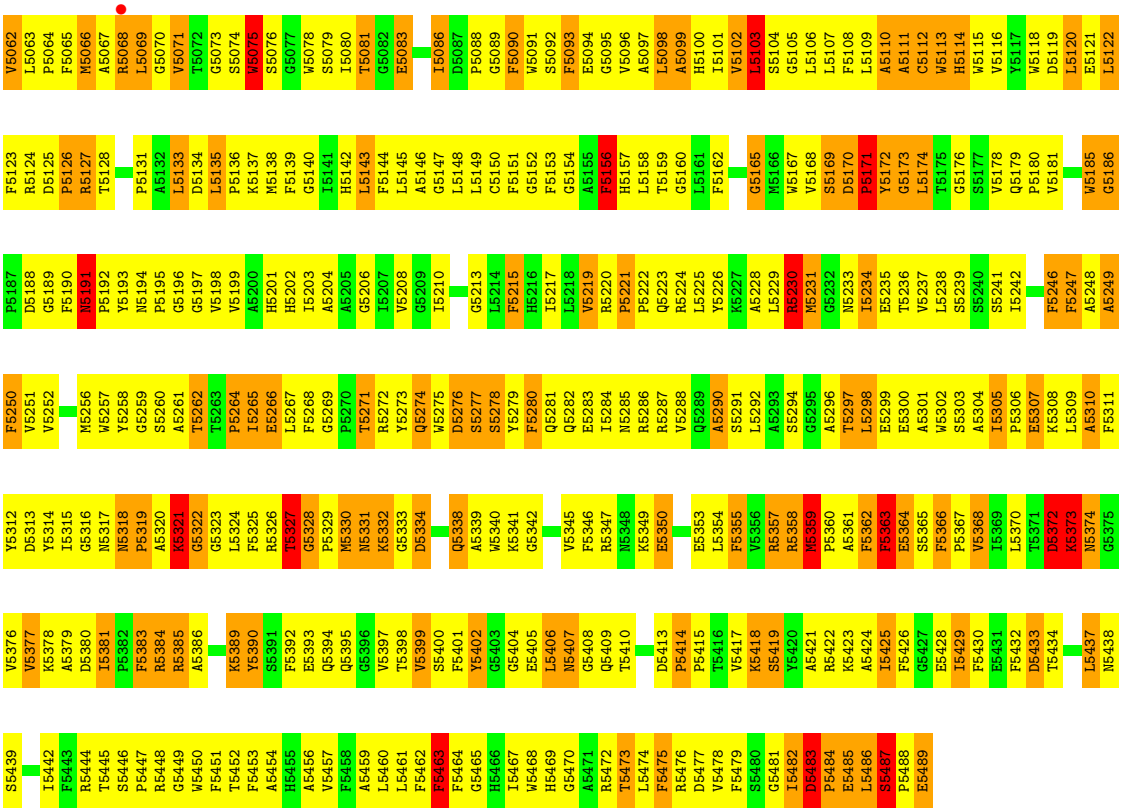
Chain B:



• Molecule 2: Photosystem II core light harvesting protein

Chain b:

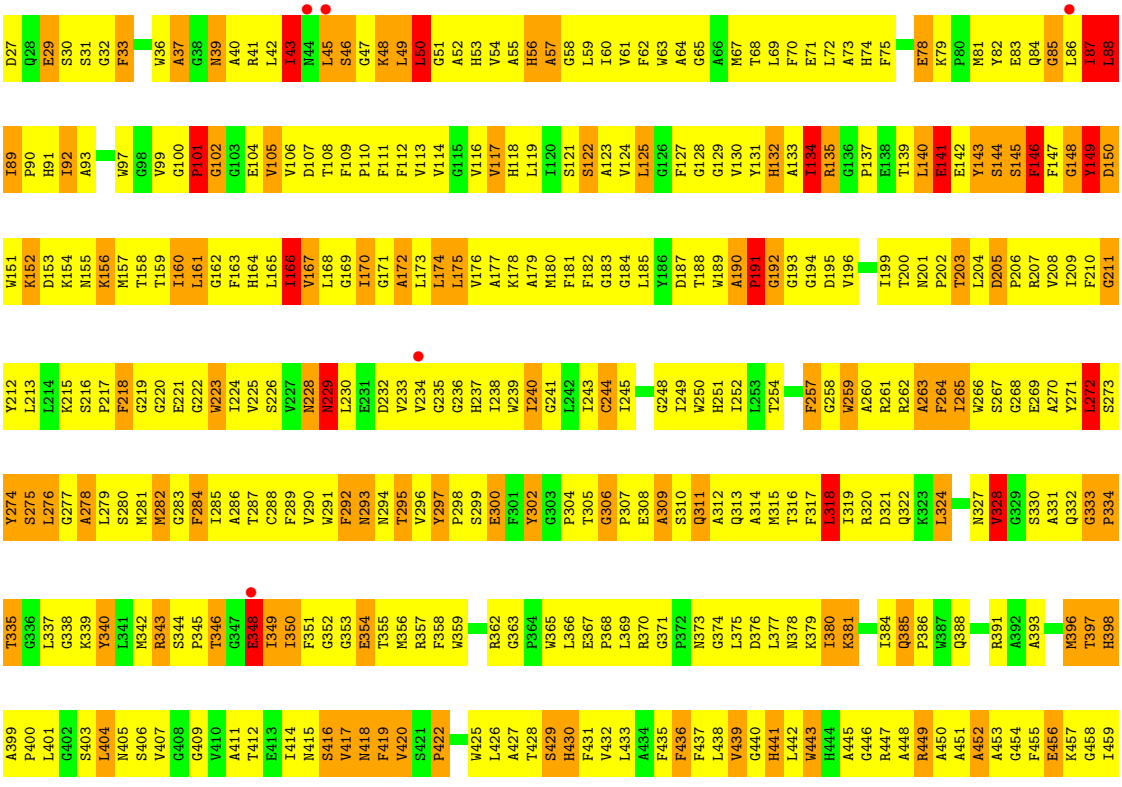




• Molecule 3: Photosystem II CP43 protein

Chain C:

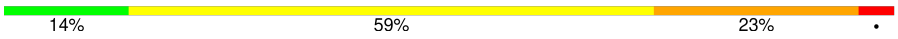


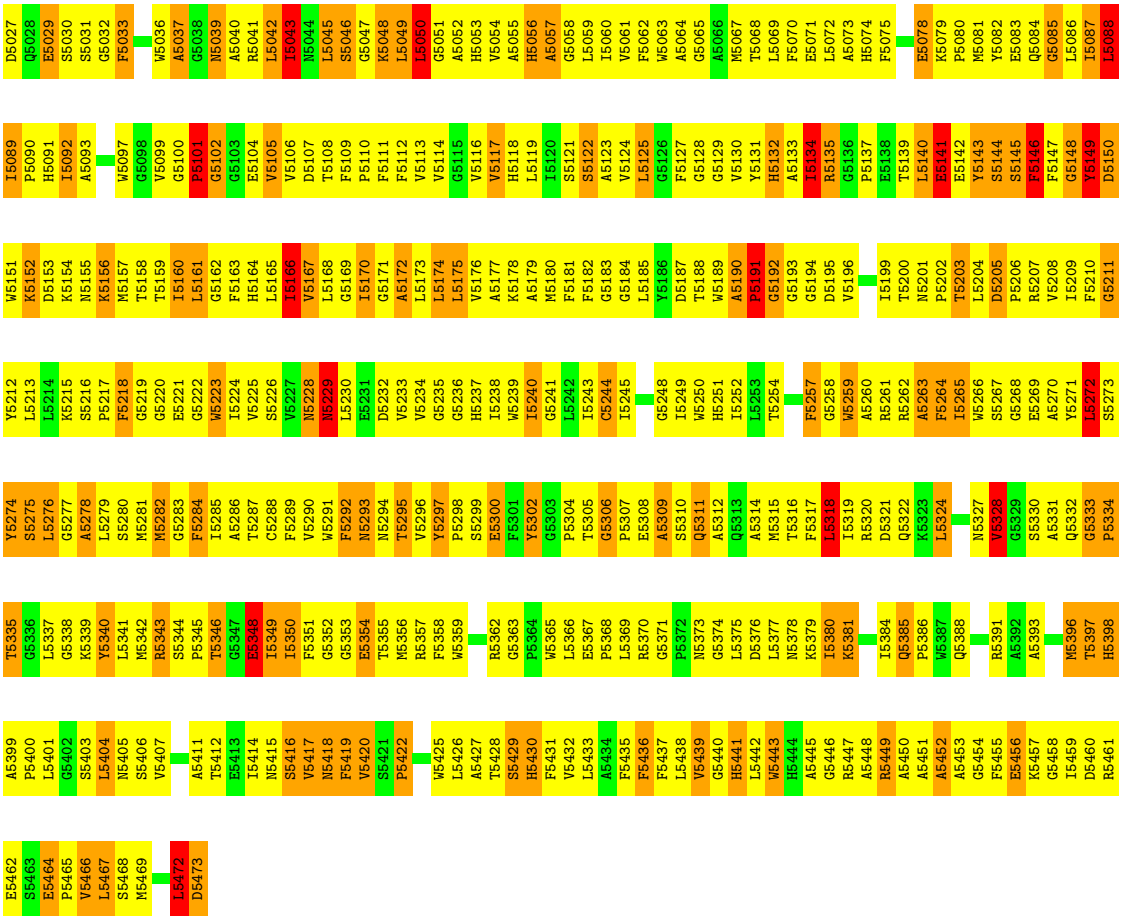




• Molecule 3: Photosystem II CP43 protein

Chain c:

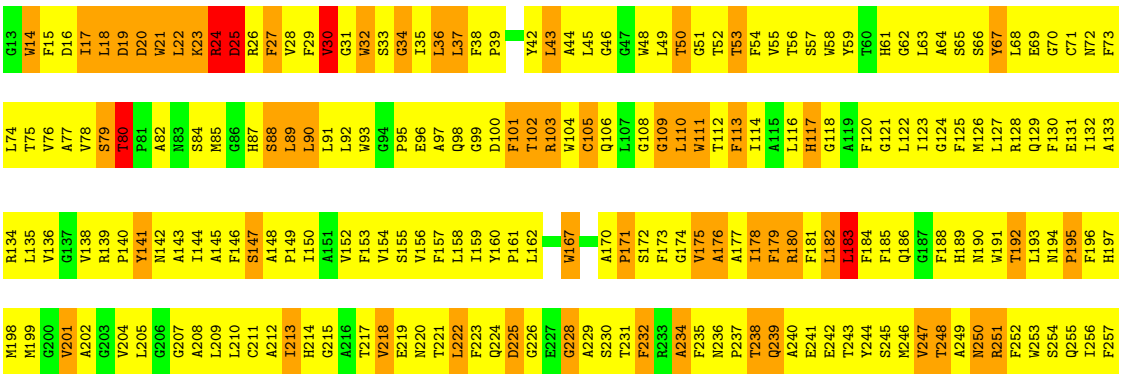


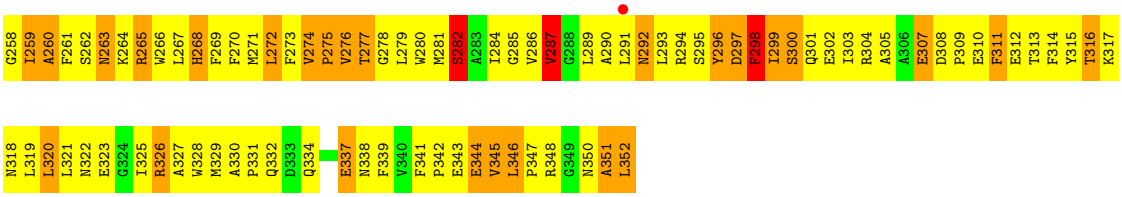


• Molecule 4: Photosystem II D2 protein

Chain D:

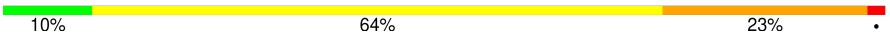






• Molecule 4: Photosystem II D2 protein

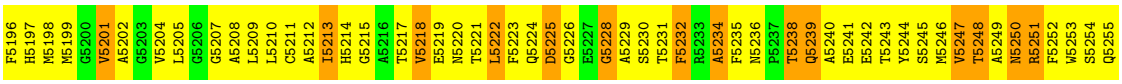
Chain d:

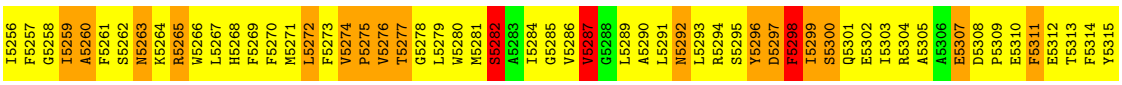


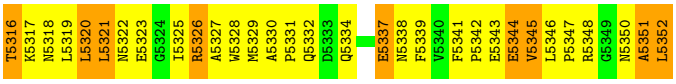






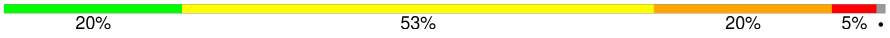


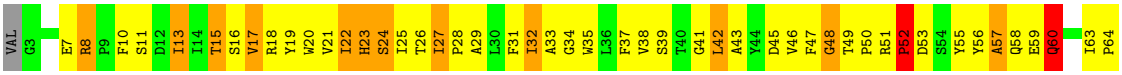


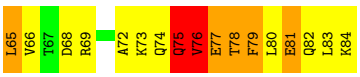


• Molecule 5: Cytochrome b559 subunit alpha

Chain E:

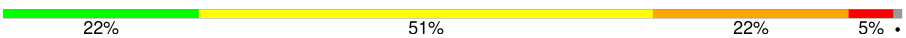


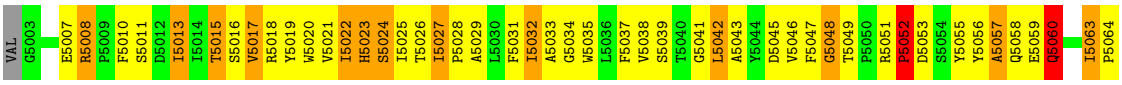




• Molecule 5: Cytochrome b559 subunit alpha

Chain e:

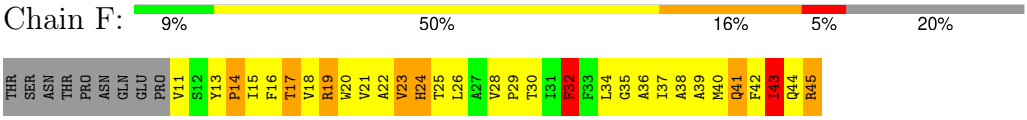






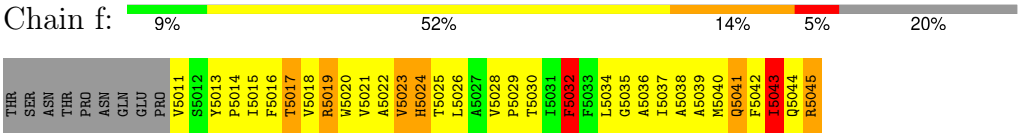
• Molecule 6: Cytochrome b559 subunit beta

Chain F:



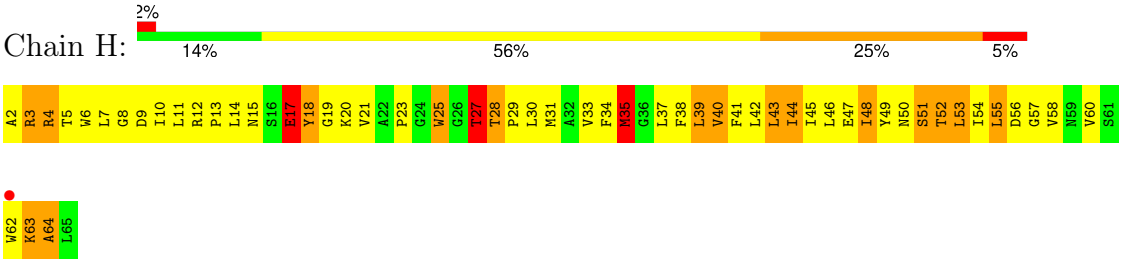
• Molecule 6: Cytochrome b559 subunit beta

Chain f:



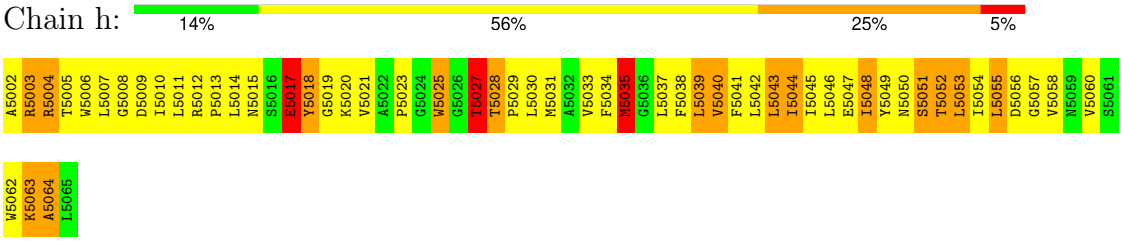
• Molecule 7: Photosystem II reaction center protein H

Chain H:



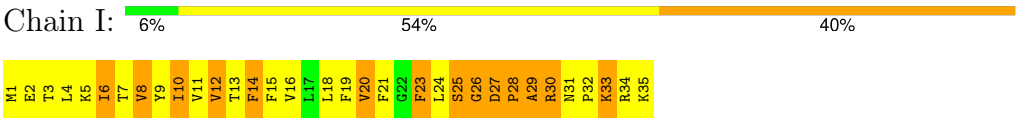
• Molecule 7: Photosystem II reaction center protein H

Chain h:



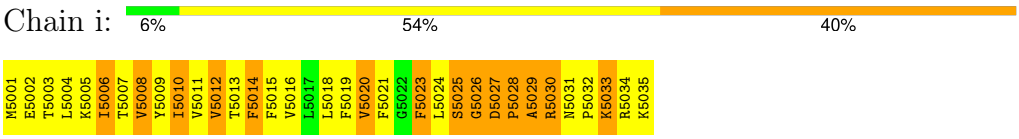
• Molecule 8: Photosystem II reaction center protein I

Chain I:



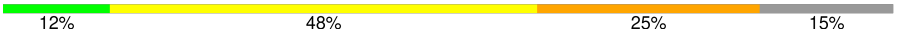
• Molecule 8: Photosystem II reaction center protein I

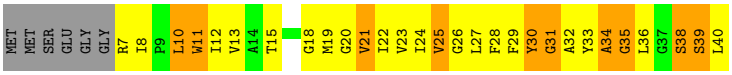
Chain i:



• Molecule 9: Photosystem II reaction center protein J

Chain J:





• Molecule 9: Photosystem II reaction center protein J

Chain j:





• Molecule 10: Photosystem II reaction center protein K

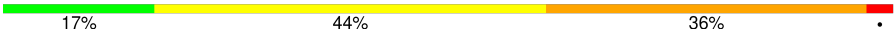
Chain K:





• Molecule 10: Photosystem II reaction center protein K

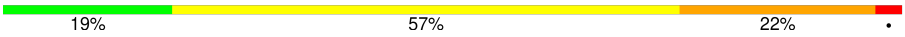
Chain k:

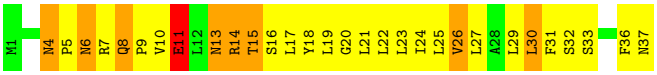




• Molecule 11: Photosystem II reaction center protein L

Chain L:





• Molecule 11: Photosystem II reaction center protein L

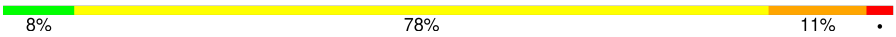
Chain l:

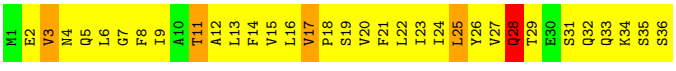




• Molecule 12: Photosystem II reaction center protein M

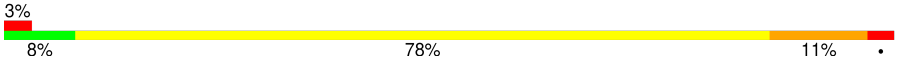
Chain M:

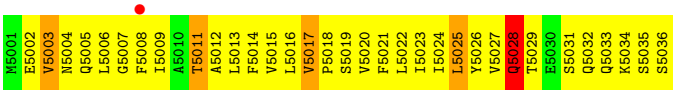




• Molecule 12: Photosystem II reaction center protein M

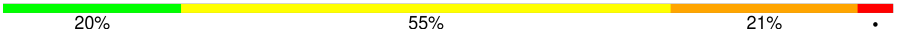
Chain m:

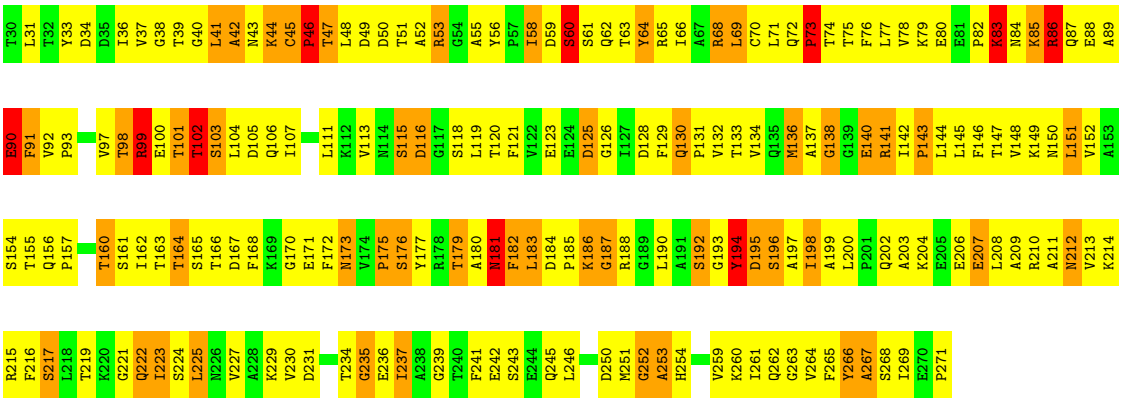




• Molecule 13: Photosystem II manganese-stabilizing polypeptide

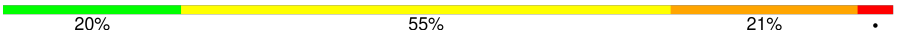
Chain O:

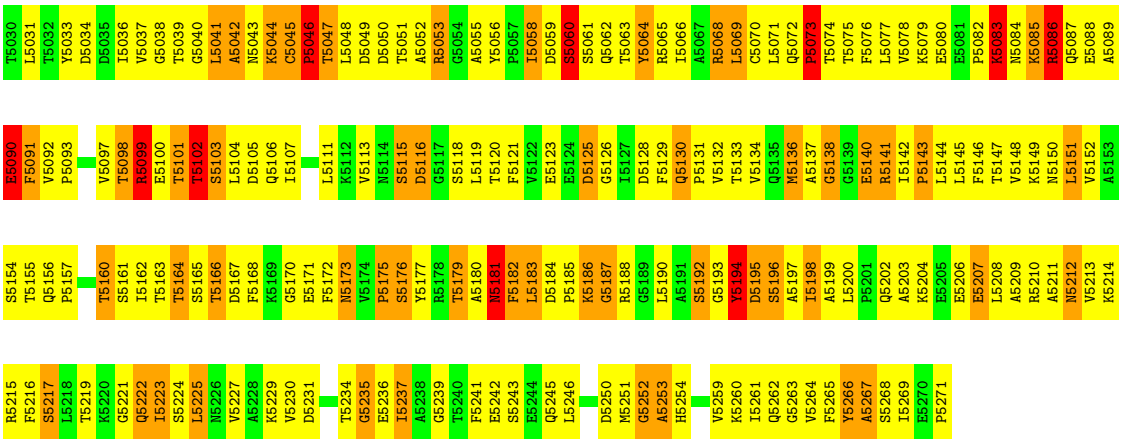




• Molecule 13: Photosystem II manganese-stabilizing polypeptide

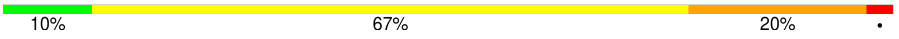
Chain o:





• Molecule 14: Photosystem II reaction center protein T

Chain T:





• Molecule 14: Photosystem II reaction center protein T

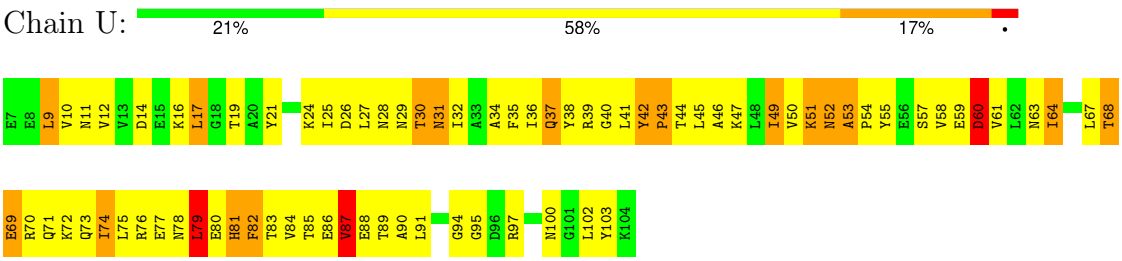
Chain t:





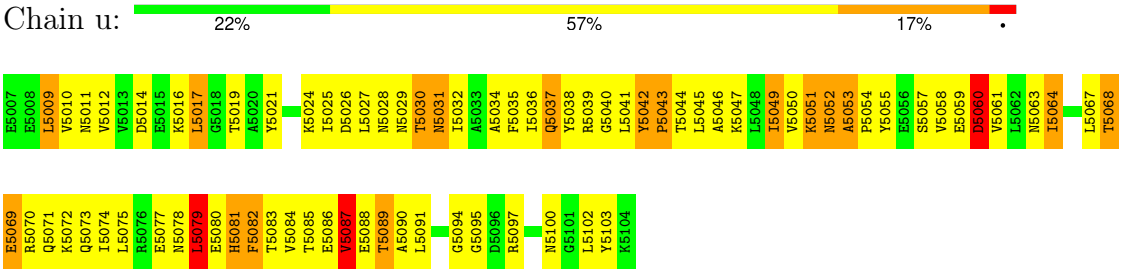
• Molecule 15: Photosystem II 12 kDa extrinsic protein

Chain U:



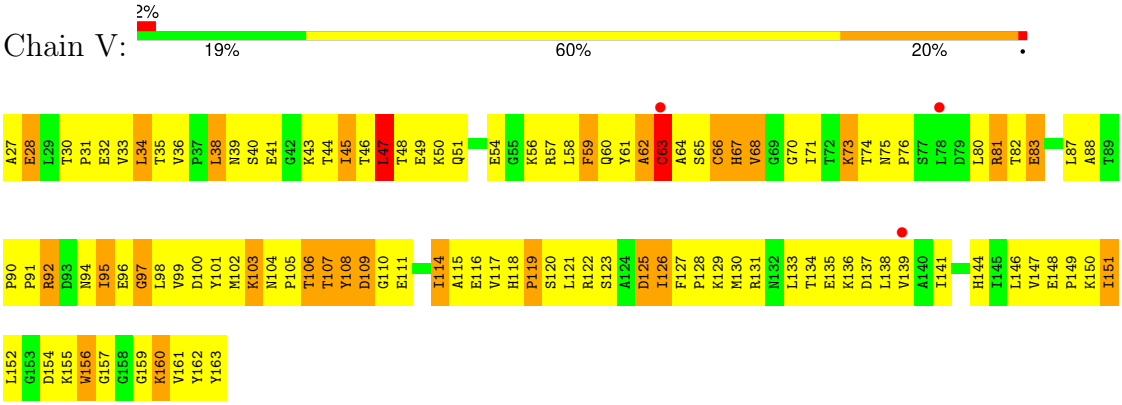
• Molecule 15: Photosystem II 12 kDa extrinsic protein

Chain u:



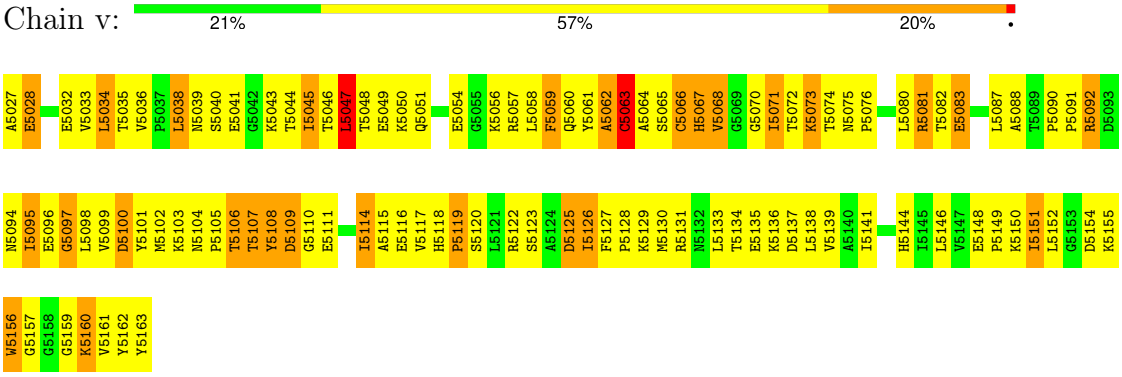
• Molecule 16: Cytochrome c-550

Chain V:



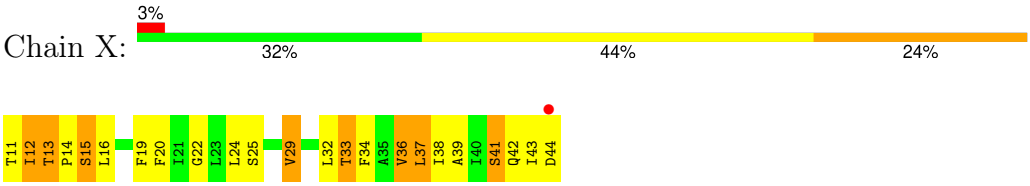
• Molecule 16: Cytochrome c-550

Chain v:



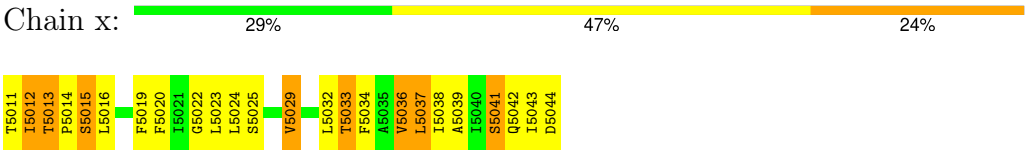
• Molecule 17: Photosystem II reaction center protein X

Chain X:



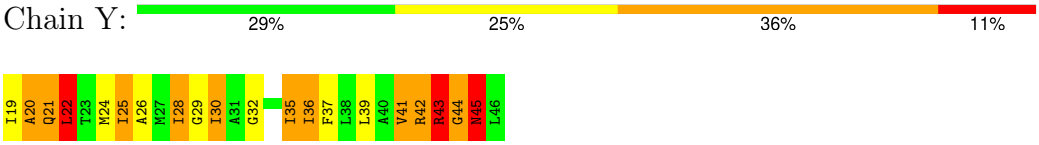
• Molecule 17: Photosystem II reaction center protein X

Chain x:



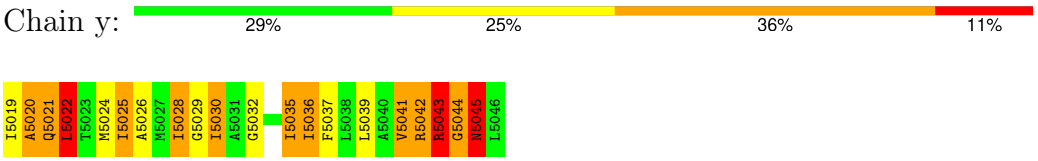
• Molecule 18: Photosystem II reaction center protein ycf12

Chain Y:



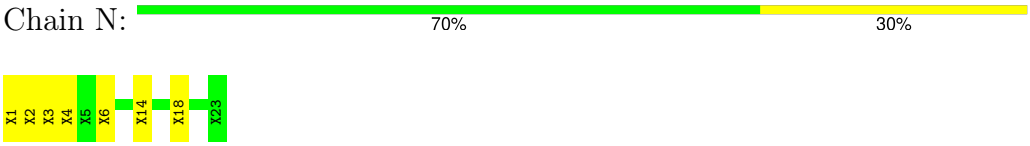
• Molecule 18: Photosystem II reaction center protein ycf12

Chain y:



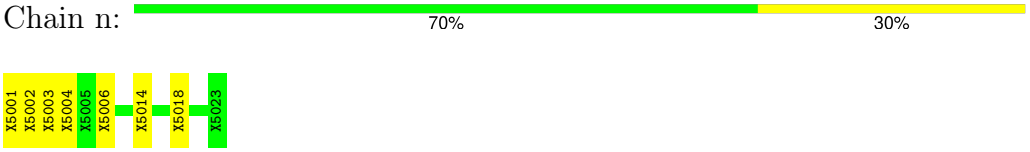
• Molecule 19: Photosystem II reaction center protein Y

Chain N:



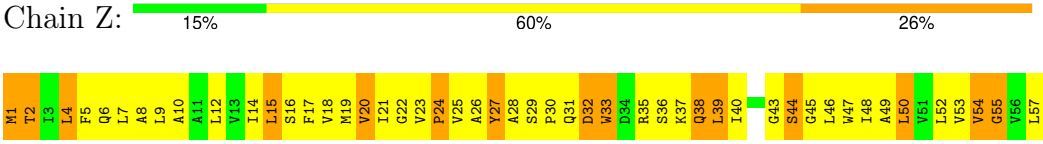
• Molecule 19: Photosystem II reaction center protein Y

Chain n:



• Molecule 20: Photosystem II reaction center protein Z

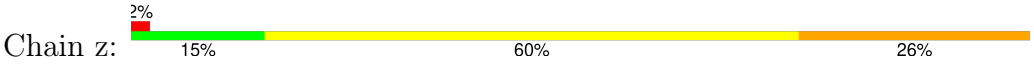
Chain Z:

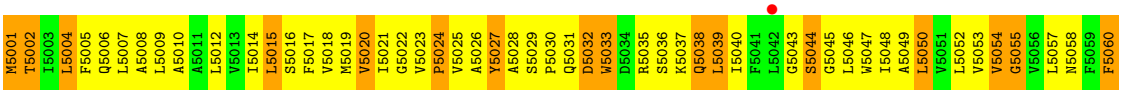


V62

• Molecule 20: Photosystem II reaction center protein Z

Chain z:





V5061
V5062

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	128.50Å 224.70Å 304.92Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 4.00 20.00 – 4.00	Depositor EDS
% Data completeness (in resolution range)	94.7 (20.00-4.00) 93.9 (20.00-4.00)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	0.09	Depositor
$< I/\sigma(I) >$ [1]	3.08 (at 4.07Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.290 , 0.326 0.278 , 0.279	Depositor DCC
R_{free} test set	3592 reflections (5.08%)	wwPDB-VP
Wilson B-factor (Å^2)	148.7	Xtriage
Anisotropy	0.518	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.23 , 71.4	EDS
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.90	EDS
Total number of atoms	48060	wwPDB-VP
Average B, all atoms (Å^2)	165.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.84% 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, PQ9, MGE, DGD, OEC, LHG, IOD, PHO, CLA, BCR, HEM

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	0.66	0/2714	1.19	38/3699 (1.0%)
1	a	0.66	0/2714	1.19	37/3699 (1.0%)
2	B	0.68	0/3971	1.27	59/5411 (1.1%)
2	b	0.68	0/3971	1.27	59/5411 (1.1%)
3	C	0.62	1/3568 (0.0%)	1.28	52/4858 (1.1%)
3	c	0.63	1/3568 (0.0%)	1.28	52/4858 (1.1%)
4	D	0.65	0/2801	1.22	34/3818 (0.9%)
4	d	0.65	0/2801	1.22	33/3818 (0.9%)
5	E	0.66	0/685	1.32	7/933 (0.8%)
5	e	0.66	0/685	1.32	7/933 (0.8%)
6	F	0.69	0/291	1.07	1/397 (0.3%)
6	f	0.69	0/291	1.07	1/397 (0.3%)
7	H	0.70	1/520 (0.2%)	1.27	8/708 (1.1%)
7	h	0.70	1/520 (0.2%)	1.27	8/708 (1.1%)
8	I	0.80	0/294	1.07	2/395 (0.5%)
8	i	0.80	0/294	1.07	2/395 (0.5%)
9	J	0.78	0/255	1.22	2/346 (0.6%)
9	j	0.78	0/255	1.22	2/346 (0.6%)
10	K	0.66	0/287	1.25	2/394 (0.5%)
10	k	0.66	0/287	1.27	3/394 (0.8%)
11	L	0.69	0/311	1.12	3/422 (0.7%)
11	l	0.69	0/311	1.11	3/422 (0.7%)
12	M	0.70	0/287	1.10	3/388 (0.8%)
12	m	0.70	0/287	1.09	3/388 (0.8%)
13	O	0.66	0/1891	1.24	23/2564 (0.9%)
13	o	0.66	0/1891	1.24	23/2564 (0.9%)
14	T	0.77	0/266	1.47	7/359 (1.9%)
14	t	0.74	0/266	1.45	7/359 (1.9%)
15	U	0.60	0/794	1.19	8/1076 (0.7%)
15	u	0.59	0/794	1.18	8/1076 (0.7%)
16	V	0.58	0/1085	1.18	13/1473 (0.9%)
16	v	0.58	0/1085	1.18	13/1473 (0.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	X	0.62	0/249	1.16	0/337
17	x	0.62	0/249	1.16	0/337
18	Y	0.84	0/209	1.35	1/279 (0.4%)
18	y	0.84	0/209	1.35	1/279 (0.4%)
20	Z	0.64	0/490	1.19	6/669 (0.9%)
20	z	0.64	0/490	1.19	6/669 (0.9%)
All	All	0.66	4/41936 (0.0%)	1.24	537/57052 (0.9%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	c	5346	THR	CA-CB	5.83	1.60	1.53
3	C	346	THR	CA-CB	5.81	1.60	1.53
7	h	5035	MET	SD-CE	5.24	1.92	1.79
7	H	35	MET	SD-CE	5.23	1.92	1.79

All (537) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	170	ASP	CA-C-N	15.15	138.78	119.84
2	B	170	ASP	C-N-CA	15.15	138.78	119.84
2	b	5170	ASP	CA-C-N	15.15	138.78	119.84
2	b	5170	ASP	C-N-CA	15.15	138.78	119.84
3	c	5050	LEU	N-CA-C	-12.24	97.93	111.28
3	C	50	LEU	N-CA-C	-12.22	97.96	111.28
3	c	5354	GLU	N-CA-C	-11.78	97.74	114.12
3	C	354	GLU	N-CA-C	-11.78	97.75	114.12
16	V	110	GLY	N-CA-C	-11.41	99.44	115.30
16	v	5110	GLY	N-CA-C	-11.37	99.49	115.30
4	d	5296	TYR	N-CA-C	-10.55	98.90	112.93
4	D	296	TYR	N-CA-C	-10.53	98.93	112.93
1	A	33	PHE	N-CA-C	-10.35	99.96	111.14
1	a	5033	PHE	N-CA-C	-10.34	99.97	111.14
14	T	4	ILE	N-CA-C	-10.16	100.81	111.58
14	t	5004	ILE	N-CA-C	-10.15	100.82	111.58
3	c	5349	ILE	N-CA-C	10.07	122.20	108.11
3	C	349	ILE	N-CA-C	10.05	122.18	108.11
4	d	5080	THR	CA-C-N	9.85	130.47	119.93
4	d	5080	THR	C-N-CA	9.85	130.47	119.93
4	D	80	THR	CA-C-N	9.82	130.44	119.93
4	D	80	THR	C-N-CA	9.82	130.44	119.93
13	o	5196	SER	N-CA-C	9.57	120.87	108.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	O	196	SER	N-CA-C	9.52	120.81	108.24
1	A	335	ASN	N-CA-C	9.50	121.64	111.28
1	a	5335	ASN	N-CA-C	9.47	121.60	111.28
4	D	239	GLN	N-CA-C	9.44	122.58	109.18
4	d	5239	GLN	N-CA-C	9.44	122.58	109.18
5	E	8	ARG	CA-C-N	9.18	129.25	119.89
5	E	8	ARG	C-N-CA	9.18	129.25	119.89
2	b	5005	TRP	N-CA-C	9.15	122.09	111.11
2	B	5	TRP	N-CA-C	9.15	122.09	111.11
5	e	5008	ARG	CA-C-N	9.14	129.21	119.89
5	e	5008	ARG	C-N-CA	9.14	129.21	119.89
13	o	5045	CYS	CA-C-N	9.07	131.17	119.84
13	o	5045	CYS	C-N-CA	9.07	131.17	119.84
13	O	45	CYS	CA-C-N	9.05	131.15	119.84
13	O	45	CYS	C-N-CA	9.05	131.15	119.84
3	C	278	ALA	N-CA-C	-8.93	102.52	113.50
3	c	5278	ALA	N-CA-C	-8.92	102.53	113.50
13	o	5187	GLY	N-CA-C	8.92	126.75	115.42
3	c	5297	TYR	CA-C-N	8.90	130.97	119.84
3	c	5297	TYR	C-N-CA	8.90	130.97	119.84
13	O	187	GLY	N-CA-C	8.88	126.70	115.42
3	C	297	TYR	CA-C-N	8.88	130.94	119.84
3	C	297	TYR	C-N-CA	8.88	130.94	119.84
1	A	76	ASN	N-CA-C	-8.82	97.80	110.59
1	a	5076	ASN	N-CA-C	-8.81	97.82	110.59
3	c	5318	LEU	N-CA-C	-8.49	102.02	111.28
3	C	318	LEU	N-CA-C	-8.48	102.04	111.28
2	B	73	GLY	N-CA-C	8.46	123.50	111.14
2	b	5073	GLY	N-CA-C	8.45	123.48	111.14
9	j	5030	TYR	N-CA-C	-8.30	101.92	110.97
4	D	334	GLN	CA-C-N	8.29	128.26	119.05
4	D	334	GLN	C-N-CA	8.29	128.26	119.05
9	J	30	TYR	N-CA-C	-8.29	101.94	110.97
3	c	5172	ALA	N-CA-C	-8.28	101.31	111.33
4	d	5334	GLN	CA-C-N	8.28	128.24	119.05
4	d	5334	GLN	C-N-CA	8.28	128.24	119.05
3	C	172	ALA	N-CA-C	-8.28	101.31	111.33
13	o	5102	THR	N-CA-C	8.26	123.93	112.04
13	O	102	THR	N-CA-C	8.25	123.92	112.04
2	B	26	HIS	N-CA-C	-8.25	101.62	112.34
2	b	5026	HIS	N-CA-C	-8.25	101.62	112.34
3	C	149	TYR	N-CA-C	8.22	123.04	109.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	U	17	LEU	N-CA-C	-8.22	103.24	113.18
15	u	5017	LEU	N-CA-C	-8.21	103.24	113.18
3	c	5149	TYR	N-CA-C	8.21	123.01	109.06
7	H	57	GLY	N-CA-C	-8.20	102.39	114.61
7	h	5057	GLY	N-CA-C	-8.19	102.40	114.61
4	d	5147	SER	N-CA-C	-8.13	102.42	111.28
4	D	147	SER	N-CA-C	-8.12	102.43	111.28
13	O	90	GLU	N-CA-C	8.10	122.98	110.42
13	o	5090	GLU	N-CA-C	8.10	122.97	110.42
13	o	5040	GLY	N-CA-C	-8.06	101.09	114.48
13	O	40	GLY	N-CA-C	-8.06	101.11	114.48
2	B	381	ILE	CA-C-N	7.96	128.01	119.89
2	B	381	ILE	C-N-CA	7.96	128.01	119.89
2	b	5381	ILE	CA-C-N	7.96	128.01	119.89
2	b	5381	ILE	C-N-CA	7.96	128.01	119.89
1	A	296	ASN	N-CA-C	7.91	122.59	111.52
1	a	5296	ASN	N-CA-C	7.89	122.56	111.52
13	O	181	ASN	N-CA-C	-7.84	100.42	110.53
13	o	5181	ASN	N-CA-C	-7.82	100.44	110.53
16	V	62	ALA	N-CA-C	-7.81	103.63	113.01
10	K	18	PHE	N-CA-C	7.81	123.01	113.17
10	k	5018	PHE	N-CA-C	7.81	123.01	113.17
14	t	5016	LEU	N-CA-C	-7.81	103.73	113.18
3	C	166	ILE	N-CA-C	-7.79	102.68	110.62
16	v	5062	ALA	N-CA-C	-7.79	103.66	113.01
3	c	5166	ILE	N-CA-C	-7.79	102.68	110.62
14	T	16	LEU	N-CA-C	-7.78	103.77	113.18
3	c	5311	GLN	N-CA-C	-7.76	103.78	113.55
3	C	311	GLN	N-CA-C	-7.74	103.80	113.55
3	c	5300	GLU	N-CA-C	-7.73	103.83	113.18
3	C	293	ASN	N-CA-C	7.71	122.40	109.76
3	C	300	GLU	N-CA-C	-7.69	103.87	113.18
3	c	5293	ASN	N-CA-C	7.68	122.36	109.76
2	B	349	LYS	N-CA-C	-7.64	102.89	112.90
2	b	5349	LYS	N-CA-C	-7.62	102.91	112.90
2	b	5327	THR	N-CA-C	7.59	126.96	110.80
2	B	327	THR	N-CA-C	7.56	126.91	110.80
10	K	24	VAL	N-CA-C	7.56	119.24	111.00
10	k	5024	VAL	N-CA-C	7.55	119.23	111.00
2	b	5110	ALA	N-CA-C	-7.55	102.08	111.75
2	B	110	ALA	N-CA-C	-7.54	102.09	111.75
2	b	5310	ALA	N-CA-C	-7.47	102.83	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	310	ALA	N-CA-C	-7.45	102.85	110.97
5	e	5023	HIS	N-CA-C	7.41	119.14	111.14
5	E	23	HIS	N-CA-C	7.40	119.13	111.14
4	d	5346	LEU	CA-C-N	7.34	127.61	119.90
4	d	5346	LEU	C-N-CA	7.34	127.61	119.90
4	D	346	LEU	CA-C-N	7.33	127.60	119.90
4	D	346	LEU	C-N-CA	7.33	127.60	119.90
13	O	217	SER	N-CA-C	7.32	120.20	110.53
3	C	37	ALA	N-CA-C	-7.31	104.31	112.57
3	c	5037	ALA	N-CA-C	-7.29	104.33	112.57
3	C	284	PHE	N-CA-C	-7.28	103.28	111.07
13	o	5217	SER	N-CA-C	7.28	120.14	110.53
3	c	5284	PHE	N-CA-C	-7.28	103.28	111.07
3	C	148	GLY	N-CA-C	7.26	124.86	112.22
3	c	5148	GLY	N-CA-C	7.25	124.84	112.22
3	c	5292	PHE	N-CA-C	7.24	122.79	113.88
4	D	238	THR	N-CA-C	7.23	119.06	111.03
3	C	292	PHE	N-CA-C	7.23	122.78	113.88
3	c	5396	MET	N-CA-C	-7.20	103.37	111.14
1	A	320	ILE	N-CA-C	-7.18	103.78	110.53
3	C	396	MET	N-CA-C	-7.18	103.38	111.14
4	d	5238	THR	N-CA-C	7.18	119.00	111.03
1	a	5320	ILE	N-CA-C	-7.17	103.79	110.53
1	A	229	GLU	N-CA-C	-7.16	104.81	113.97
1	a	5229	GLU	N-CA-C	-7.15	104.81	113.97
11	l	5011	GLU	N-CA-C	7.13	120.81	108.76
2	b	5366	PHE	CA-C-N	7.12	128.75	119.84
2	b	5366	PHE	C-N-CA	7.12	128.75	119.84
11	L	11	GLU	N-CA-C	7.12	120.79	108.76
2	B	366	PHE	CA-C-N	7.11	128.72	119.84
2	B	366	PHE	C-N-CA	7.11	128.72	119.84
1	A	126	TYR	N-CA-C	-7.10	103.62	111.36
1	a	5126	TYR	N-CA-C	-7.10	103.62	111.36
15	U	12	VAL	N-CA-C	7.08	118.72	111.00
1	a	5277	ALA	N-CA-C	7.08	119.89	111.33
2	b	5384	ARG	N-CA-C	-7.08	103.50	111.14
15	u	5012	VAL	N-CA-C	7.07	118.71	111.00
1	A	277	ALA	N-CA-C	7.07	119.88	111.33
2	B	384	ARG	N-CA-C	-7.06	103.52	111.14
20	z	5054	VAL	N-CA-C	-7.05	101.74	111.89
20	Z	54	VAL	N-CA-C	-7.03	101.76	111.89
4	D	287	VAL	N-CA-C	-7.02	102.61	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	d	5287	VAL	N-CA-C	-7.02	102.62	110.62
2	B	364	GLU	N-CA-C	-7.00	103.73	112.90
2	B	221	PRO	N-CA-C	6.98	119.21	110.70
2	b	5364	GLU	N-CA-C	-6.97	103.76	112.90
2	b	5221	PRO	N-CA-C	6.96	119.19	110.70
3	C	348	GLU	N-CA-C	6.95	118.86	111.28
3	c	5348	GLU	N-CA-C	6.94	118.84	111.28
16	v	5122	ARG	N-CA-C	-6.91	103.75	111.28
16	V	122	ARG	N-CA-C	-6.88	103.78	111.28
2	b	5405	GLU	N-CA-C	-6.87	105.45	114.31
4	D	24	ARG	N-CA-C	6.86	120.85	109.46
2	B	405	GLU	N-CA-C	-6.85	105.47	114.31
1	A	331	MET	N-CA-C	6.85	118.44	110.97
4	d	5024	ARG	N-CA-C	6.84	120.81	109.46
1	a	5331	MET	N-CA-C	6.82	118.41	110.97
2	b	5172	TYR	N-CA-C	-6.82	99.04	109.41
2	B	172	TYR	N-CA-C	-6.81	99.06	109.41
20	Z	33	TRP	N-CA-C	-6.79	103.94	111.82
20	z	5033	TRP	N-CA-C	-6.78	103.96	111.82
3	C	143	TYR	N-CA-C	-6.77	104.12	112.38
3	c	5143	TYR	N-CA-C	-6.74	104.15	112.38
20	Z	17	PHE	N-CA-C	-6.74	103.93	111.28
20	z	5017	PHE	N-CA-C	-6.74	103.93	111.28
1	A	266	ASN	N-CA-C	-6.71	105.38	113.97
1	a	5266	ASN	N-CA-C	-6.70	105.39	113.97
2	b	5332	LYS	N-CA-C	-6.67	104.12	113.20
9	J	34	ALA	N-CA-C	-6.66	105.44	113.97
18	y	5022	LEU	N-CA-C	6.66	118.19	111.07
2	B	332	LYS	N-CA-C	-6.65	104.16	113.20
4	d	5175	VAL	N-CA-C	-6.65	105.36	111.67
3	c	5263	ALA	N-CA-C	6.63	118.39	111.03
3	C	263	ALA	N-CA-C	6.63	118.39	111.03
18	Y	22	LEU	N-CA-C	6.62	118.16	111.07
9	j	5034	ALA	N-CA-C	-6.62	105.50	113.97
4	D	175	VAL	N-CA-C	-6.61	105.39	111.67
7	h	5023	PRO	N-CA-C	6.61	120.78	110.80
7	H	23	PRO	N-CA-C	6.60	120.77	110.80
7	H	63	LYS	N-CA-C	-6.57	100.56	110.28
3	c	5464	GLU	CA-C-N	6.55	126.79	119.32
3	c	5464	GLU	C-N-CA	6.55	126.79	119.32
7	h	5063	LYS	N-CA-C	-6.54	100.61	110.28
1	a	5195	HIS	CA-C-N	6.53	128.00	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a	5195	HIS	C-N-CA	6.53	128.00	119.84
3	C	114	VAL	N-CA-C	6.52	118.05	110.62
3	c	5218	PHE	N-CA-C	6.52	119.35	110.35
3	C	218	PHE	N-CA-C	6.52	119.34	110.35
3	C	439	VAL	N-CA-C	-6.52	103.97	110.62
1	A	195	HIS	CA-C-N	6.51	127.97	119.84
1	A	195	HIS	C-N-CA	6.51	127.97	119.84
3	C	464	GLU	CA-C-N	6.50	126.73	119.32
3	C	464	GLU	C-N-CA	6.50	126.73	119.32
2	b	5372	ASP	N-CA-C	-6.50	101.51	110.35
16	V	33	VAL	N-CA-C	-6.50	104.55	113.00
3	c	5439	VAL	N-CA-C	-6.50	103.99	110.62
3	c	5114	VAL	N-CA-C	6.49	118.02	110.62
2	B	372	ASP	N-CA-C	-6.48	101.53	110.35
1	A	83	VAL	CA-C-N	6.47	127.92	119.84
1	A	83	VAL	C-N-CA	6.47	127.92	119.84
16	v	5033	VAL	N-CA-C	-6.46	104.60	113.00
1	a	5036	ILE	N-CA-C	-6.45	106.01	111.56
1	a	5083	VAL	CA-C-N	6.45	127.90	119.84
1	a	5083	VAL	C-N-CA	6.45	127.90	119.84
1	A	36	ILE	N-CA-C	-6.44	106.02	111.56
13	O	208	LEU	N-CA-C	-6.41	104.71	113.30
13	o	5208	LEU	N-CA-C	-6.41	104.71	113.30
2	b	5331	ASN	N-CA-C	6.40	118.33	111.36
13	o	5086	ARG	N-CA-C	6.39	121.89	113.20
2	B	331	ASN	N-CA-C	6.39	118.32	111.36
13	O	86	ARG	N-CA-C	6.38	121.88	113.20
2	B	298	LEU	N-CA-C	-6.38	103.59	111.75
2	b	5298	LEU	N-CA-C	-6.38	103.59	111.75
3	C	134	ILE	N-CA-C	6.36	117.46	112.12
2	b	5305	ILE	CA-C-N	6.36	126.86	119.99
2	b	5305	ILE	C-N-CA	6.36	126.86	119.99
3	c	5134	ILE	N-CA-C	6.36	117.46	112.12
15	U	81	HIS	N-CA-C	6.34	121.03	113.16
12	m	5016	LEU	N-CA-C	6.33	118.99	111.71
15	u	5081	HIS	N-CA-C	6.33	121.01	113.16
2	B	305	ILE	CA-C-N	6.33	126.82	119.99
2	B	305	ILE	C-N-CA	6.33	126.82	119.99
12	M	16	LEU	N-CA-C	6.32	118.98	111.71
15	u	5040	GLY	N-CA-C	6.32	122.71	113.48
15	U	40	GLY	N-CA-C	6.31	122.70	113.48
3	C	141	GLU	N-CA-C	-6.31	104.48	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	c	5141	GLU	N-CA-C	-6.30	104.49	111.36
3	C	449	ARG	N-CA-C	-6.30	105.45	113.01
4	d	5023	LYS	N-CA-C	6.30	120.16	112.23
2	B	399	VAL	N-CA-C	6.29	117.17	108.12
2	b	5318	ASN	CA-C-N	6.29	127.70	119.84
2	b	5318	ASN	C-N-CA	6.29	127.70	119.84
4	D	23	LYS	N-CA-C	6.28	120.14	112.23
3	c	5449	ARG	N-CA-C	-6.28	105.48	113.01
13	o	5051	THR	N-CA-C	-6.27	104.26	112.41
2	B	318	ASN	CA-C-N	6.27	127.68	119.84
2	B	318	ASN	C-N-CA	6.27	127.68	119.84
13	O	51	THR	N-CA-C	-6.27	104.26	112.41
2	b	5399	VAL	N-CA-C	6.26	117.14	108.12
4	D	105	CYS	N-CA-C	-6.26	105.13	112.89
3	C	385	GLN	CA-C-N	6.25	125.66	118.85
3	C	385	GLN	C-N-CA	6.25	125.66	118.85
4	d	5105	CYS	N-CA-C	-6.25	105.14	112.89
3	C	391	ARG	N-CA-C	-6.24	104.01	111.69
1	a	5038	ILE	CA-C-N	-6.24	112.04	119.84
1	a	5038	ILE	C-N-CA	-6.24	112.04	119.84
1	A	38	ILE	CA-C-N	-6.24	112.04	119.84
1	A	38	ILE	C-N-CA	-6.24	112.04	119.84
4	d	5062	GLY	N-CA-C	-6.24	104.69	114.10
3	c	5385	GLN	CA-C-N	6.23	125.64	118.85
3	c	5385	GLN	C-N-CA	6.23	125.64	118.85
3	c	5391	ARG	N-CA-C	-6.23	104.03	111.69
3	C	88	LEU	N-CA-C	6.23	117.73	111.07
2	B	487	SER	N-CA-C	6.22	123.57	109.81
2	b	5487	SER	N-CA-C	6.22	123.57	109.81
4	D	62	GLY	N-CA-C	-6.22	104.70	114.10
11	L	13	ASN	N-CA-C	6.22	118.94	110.55
11	l	5013	ASN	N-CA-C	6.22	118.94	110.55
1	A	341	LEU	N-CA-C	6.21	118.64	108.52
1	a	5260	PHE	N-CA-C	6.21	124.02	110.80
2	B	290	ALA	N-CA-C	-6.21	104.21	110.97
3	c	5088	LEU	N-CA-C	6.20	117.71	111.07
1	a	5341	LEU	N-CA-C	6.20	118.63	108.52
14	t	5021	ILE	CB-CA-C	-6.20	104.48	111.80
14	T	21	ILE	CB-CA-C	-6.20	104.49	111.80
16	v	5100	ASP	N-CA-C	-6.20	103.46	111.02
1	A	260	PHE	N-CA-C	6.20	124.00	110.80
3	C	254	THR	N-CA-C	6.20	118.83	109.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	V	100	ASP	N-CA-C	-6.20	103.46	111.02
1	A	176	ILE	CB-CA-C	-6.18	104.08	111.81
2	b	5290	ALA	N-CA-C	-6.17	104.24	110.97
1	a	5176	ILE	CB-CA-C	-6.17	104.09	111.81
3	c	5254	THR	N-CA-C	6.17	118.78	109.41
7	H	48	ILE	N-CA-C	-6.16	104.29	111.00
5	e	5022	ILE	N-CA-C	-6.13	104.76	110.53
7	h	5048	ILE	N-CA-C	-6.13	104.31	111.00
3	C	140	LEU	N-CA-C	-6.13	105.56	113.16
3	c	5140	LEU	N-CA-C	-6.12	105.56	113.16
5	E	22	ILE	N-CA-C	-6.12	104.78	110.53
3	c	5043	ILE	N-CA-C	-6.07	106.58	112.29
2	B	14	ASN	N-CA-C	-6.07	100.95	110.36
2	b	5383	PHE	N-CA-C	-6.06	105.91	113.55
16	V	108	TYR	N-CA-C	-6.05	105.75	113.02
2	b	5014	ASN	N-CA-C	-6.05	100.97	110.36
2	B	383	PHE	N-CA-C	-6.05	105.92	113.55
16	v	5108	TYR	N-CA-C	-6.04	105.77	113.02
3	C	43	ILE	N-CA-C	-6.04	106.61	112.29
1	a	5312	ASN	N-CA-C	-6.04	101.36	110.24
2	b	5050	PRO	N-CA-C	-6.03	106.81	114.35
2	B	50	PRO	N-CA-C	-6.03	106.81	114.35
2	b	5328	GLY	CA-C-N	6.03	126.34	119.83
2	b	5328	GLY	C-N-CA	6.03	126.34	119.83
14	T	17	PHE	N-CA-C	-6.02	104.08	112.45
3	C	404	LEU	N-CA-C	-6.02	104.05	111.33
16	V	109	ASP	N-CA-C	-6.02	105.60	113.12
1	A	312	ASN	N-CA-C	-6.01	101.40	110.24
1	A	130	GLN	N-CA-C	-6.00	104.67	112.23
14	t	5017	PHE	N-CA-C	-6.00	104.10	112.45
2	B	328	GLY	CA-C-N	5.99	126.30	119.83
2	B	328	GLY	C-N-CA	5.99	126.30	119.83
1	a	5130	GLN	N-CA-C	-5.99	104.69	112.23
4	D	117	HIS	N-CA-C	-5.98	104.67	111.07
3	c	5404	LEU	N-CA-C	-5.98	104.09	111.33
16	v	5109	ASP	N-CA-C	-5.98	105.64	113.12
13	O	235	GLY	N-CA-C	-5.98	107.07	115.32
7	h	5025	TRP	N-CA-C	-5.97	106.12	113.41
6	f	5032	PHE	N-CA-C	-5.97	104.69	111.14
7	H	25	TRP	N-CA-C	-5.97	106.13	113.41
4	d	5117	HIS	N-CA-C	-5.97	104.69	111.07
15	u	5051	LYS	N-CA-C	-5.97	98.09	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	c	5259	TRP	N-CA-C	-5.96	105.50	112.89
3	C	259	TRP	N-CA-C	-5.96	105.50	112.89
3	c	5333	GLY	CA-C-N	5.96	127.29	119.84
3	c	5333	GLY	C-N-CA	5.96	127.29	119.84
3	C	333	GLY	CA-C-N	5.96	127.28	119.84
3	C	333	GLY	C-N-CA	5.96	127.28	119.84
3	C	302	TYR	N-CA-C	-5.95	101.38	109.95
6	F	32	PHE	N-CA-C	-5.95	104.71	111.14
13	o	5235	GLY	N-CA-C	-5.95	107.11	115.32
15	U	51	LYS	N-CA-C	-5.95	98.12	110.80
3	c	5302	TYR	N-CA-C	-5.95	101.39	109.95
3	C	229	ASN	N-CA-C	5.91	118.21	109.69
3	c	5229	ASN	N-CA-C	5.91	118.19	109.69
5	E	13	ILE	N-CA-C	5.90	119.35	111.44
1	A	82	VAL	N-CA-C	-5.88	99.95	108.36
1	a	5323	ARG	N-CA-C	-5.88	104.57	110.97
1	a	5176	ILE	N-CA-C	5.87	116.00	110.30
1	A	323	ARG	N-CA-C	-5.87	104.58	110.97
3	C	466	VAL	N-CA-C	5.87	116.64	110.72
1	a	5082	VAL	N-CA-C	-5.87	99.97	108.36
5	e	5013	ILE	N-CA-C	5.86	119.30	111.44
3	c	5466	VAL	N-CA-C	5.85	116.63	110.72
16	V	95	ILE	N-CA-C	-5.85	103.47	111.89
16	v	5095	ILE	N-CA-C	-5.84	103.49	111.89
4	d	5167	TRP	N-CA-C	-5.83	105.27	112.38
1	A	176	ILE	N-CA-C	5.82	115.95	110.30
4	D	18	LEU	N-CA-C	-5.82	104.84	111.07
4	d	5018	LEU	N-CA-C	-5.82	104.84	111.07
2	b	5277	SER	N-CA-C	-5.82	99.81	109.46
1	a	5263	ALA	N-CA-C	-5.81	106.42	112.93
15	u	5049	ILE	N-CA-C	-5.81	104.66	110.30
2	B	277	SER	N-CA-C	-5.81	99.81	109.46
14	t	5026	PRO	N-CA-C	5.81	117.79	110.70
1	A	263	ALA	N-CA-C	-5.80	106.43	112.93
4	D	167	TRP	N-CA-C	-5.80	105.30	112.38
15	U	49	ILE	N-CA-C	-5.80	104.67	110.30
2	B	486	LEU	N-CA-C	5.80	116.74	108.74
14	T	26	PRO	N-CA-C	5.79	117.76	110.70
2	b	5486	LEU	N-CA-C	5.78	116.72	108.74
4	D	259	ILE	N-CA-C	5.76	118.25	108.86
1	A	252	HIS	N-CA-C	-5.75	105.01	111.28
4	d	5259	ILE	N-CA-C	5.75	118.23	108.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	H	55	LEU	N-CA-C	-5.74	100.63	108.38
12	m	5028	GLN	N-CA-C	-5.72	105.02	112.23
12	M	28	GLN	N-CA-C	-5.71	105.03	112.23
1	a	5252	HIS	N-CA-C	-5.71	105.05	111.28
7	h	5055	LEU	N-CA-C	-5.71	100.67	108.38
1	a	5140	ARG	CA-C-N	-5.71	112.71	119.84
1	a	5140	ARG	C-N-CA	-5.71	112.71	119.84
2	B	6	TYR	N-CA-C	-5.70	105.07	111.28
15	U	87	VAL	N-CA-C	-5.70	101.42	109.63
1	A	140	ARG	CA-C-N	-5.69	112.73	119.84
1	A	140	ARG	C-N-CA	-5.69	112.73	119.84
15	u	5087	VAL	N-CA-C	-5.69	101.44	109.63
2	b	5328	GLY	N-CA-C	5.68	123.93	112.34
2	B	328	GLY	N-CA-C	5.68	123.92	112.34
8	i	5028	PRO	N-CA-C	-5.68	106.46	113.84
8	I	28	PRO	N-CA-C	-5.67	106.47	113.84
3	c	5129	GLY	N-CA-C	-5.67	105.93	112.73
1	a	5168	PHE	N-CA-C	-5.66	106.07	112.87
4	D	25	ASP	N-CA-C	5.66	122.86	110.80
1	A	168	PHE	N-CA-C	-5.66	106.08	112.87
3	C	422	PRO	N-CA-C	-5.65	105.67	113.53
3	c	5422	PRO	N-CA-C	-5.65	105.67	113.53
3	C	129	GLY	N-CA-C	-5.65	105.95	112.73
4	d	5025	ASP	N-CA-C	5.65	122.84	110.80
2	b	5006	TYR	N-CA-C	-5.65	105.12	111.28
14	T	25	GLU	CA-C-N	5.64	126.19	120.38
14	T	25	GLU	C-N-CA	5.64	126.19	120.38
14	t	5025	GLU	CA-C-N	5.63	126.18	120.38
14	t	5025	GLU	C-N-CA	5.63	126.18	120.38
2	b	5303	SER	N-CA-C	-5.62	106.13	112.87
2	B	303	SER	N-CA-C	-5.62	106.13	112.87
3	c	5272	LEU	N-CA-C	-5.61	105.09	111.14
1	a	5313	VAL	N-CA-C	5.60	116.64	108.58
3	C	87	ILE	N-CA-C	-5.60	106.24	111.45
3	C	272	LEU	N-CA-C	-5.60	105.09	111.14
1	A	313	VAL	N-CA-C	5.59	116.63	108.58
4	D	228	GLY	N-CA-C	5.59	117.20	111.56
2	B	173	GLY	N-CA-C	-5.58	99.94	113.18
1	A	272	HIS	N-CA-C	-5.58	104.61	111.75
2	b	5081	THR	N-CA-C	-5.58	104.83	111.69
3	c	5087	ILE	N-CA-C	-5.58	106.26	111.45
2	b	5173	GLY	N-CA-C	-5.57	99.97	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	386	ALA	N-CA-C	-5.57	106.65	113.50
2	B	81	THR	N-CA-C	-5.57	104.84	111.69
4	d	5228	GLY	N-CA-C	5.57	117.19	111.56
7	h	5009	ASP	N-CA-C	-5.57	105.27	112.68
4	D	344	GLU	N-CA-C	5.55	117.19	111.03
2	b	5386	ALA	N-CA-C	-5.55	106.67	113.50
4	d	5344	GLU	N-CA-C	5.54	117.18	111.03
7	H	9	ASP	N-CA-C	-5.54	105.31	112.68
4	d	5030	VAL	CA-C-N	-5.54	117.24	122.17
4	d	5030	VAL	C-N-CA	-5.54	117.24	122.17
4	D	30	VAL	CA-C-N	-5.53	117.25	122.17
4	D	30	VAL	C-N-CA	-5.53	117.25	122.17
4	d	5248	THR	N-CA-C	-5.51	106.63	113.19
2	b	5280	PHE	N-CA-C	5.51	118.05	111.71
4	d	5176	ALA	N-CA-C	-5.51	104.79	112.45
10	k	5041	ALA	N-CA-C	-5.50	106.24	113.12
4	D	248	THR	N-CA-C	-5.50	106.65	113.19
1	a	5047	CYS	N-CA-C	-5.50	105.19	111.07
4	D	176	ALA	N-CA-C	-5.49	104.82	112.45
4	d	5179	PHE	N-CA-C	-5.49	105.46	111.82
1	A	47	CYS	N-CA-C	-5.48	105.21	111.07
4	D	179	PHE	N-CA-C	-5.48	105.46	111.82
2	B	54	PRO	N-CA-C	-5.46	103.28	111.57
2	b	5054	PRO	N-CA-C	-5.45	103.29	111.57
4	D	103	ARG	N-CA-C	-5.45	105.26	111.14
16	V	73	LYS	N-CA-C	5.44	117.91	111.33
16	v	5073	LYS	N-CA-C	5.43	117.91	111.33
2	b	5189	GLY	N-CA-C	-5.43	107.10	115.73
2	B	189	GLY	N-CA-C	-5.42	107.11	115.73
4	d	5103	ARG	N-CA-C	-5.42	105.29	111.14
3	C	258	GLY	N-CA-C	5.39	120.68	114.16
3	c	5258	GLY	N-CA-C	5.39	120.68	114.16
13	o	5225	LEU	N-CA-C	5.38	117.43	108.02
13	O	225	LEU	N-CA-C	5.37	117.42	108.02
4	d	5321	LEU	N-CA-C	-5.37	104.67	111.11
4	D	321	LEU	N-CA-C	-5.36	104.68	111.11
20	z	5002	THR	N-CA-C	-5.35	105.49	112.23
2	B	280	PHE	N-CA-C	5.34	118.02	111.82
2	B	191	ASN	N-CA-C	-5.34	98.01	109.81
20	Z	2	THR	N-CA-C	-5.34	105.50	112.23
2	b	5008	VAL	CB-CA-C	-5.33	103.62	112.26
1	a	5228	THR	N-CA-C	-5.33	100.74	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	b	5363	PHE	N-CA-C	5.33	118.31	109.46
1	A	228	THR	N-CA-C	-5.33	100.74	109.80
2	B	171	PRO	N-CA-C	5.32	123.44	112.47
2	B	156	PHE	N-CA-C	5.32	119.49	112.89
2	B	362	PHE	N-CA-C	5.32	117.99	111.82
2	b	5191	ASN	N-CA-C	-5.32	98.06	109.81
2	b	5156	PHE	N-CA-C	5.32	119.48	112.89
2	B	363	PHE	N-CA-C	5.31	118.27	109.46
13	o	5083	LYS	N-CA-C	-5.31	103.88	110.41
2	B	8	VAL	CB-CA-C	-5.31	103.66	112.26
13	O	83	LYS	N-CA-C	-5.31	103.88	110.41
16	V	75	ASN	CA-C-N	5.30	126.47	119.84
16	V	75	ASN	C-N-CA	5.30	126.47	119.84
2	b	5171	PRO	N-CA-C	5.30	123.38	112.47
3	C	228	ASN	N-CA-C	5.29	117.46	111.11
2	b	5362	PHE	N-CA-C	5.29	117.96	111.82
3	c	5445	ALA	N-CA-C	-5.28	105.11	112.45
13	o	5099	ARG	N-CA-C	5.28	117.82	109.96
16	v	5075	ASN	CA-C-N	5.28	126.44	119.84
16	v	5075	ASN	C-N-CA	5.28	126.44	119.84
20	Z	7	LEU	N-CA-C	-5.28	105.99	112.90
3	c	5228	ASN	N-CA-C	5.27	117.44	111.11
20	z	5007	LEU	N-CA-C	-5.27	105.99	112.90
13	O	99	ARG	N-CA-C	5.27	117.81	109.96
5	e	5079	PHE	N-CA-C	-5.27	103.50	111.56
12	M	5	GLN	N-CA-C	5.27	118.87	112.23
5	E	79	PHE	N-CA-C	-5.26	103.52	111.56
3	C	135	ARG	N-CA-C	5.25	119.79	113.17
3	C	445	ALA	N-CA-C	-5.25	105.16	112.45
16	v	5028	GLU	N-CA-C	-5.24	106.94	113.55
16	V	28	GLU	N-CA-C	-5.24	106.95	113.55
12	m	5005	GLN	N-CA-C	5.24	118.83	112.23
2	b	5276	ASP	N-CA-C	-5.23	105.27	110.97
2	B	463	PHE	N-CA-C	-5.23	106.00	112.38
3	c	5135	ARG	N-CA-C	5.23	119.76	113.17
13	O	151	LEU	N-CA-C	5.23	117.81	109.96
13	o	5151	LEU	N-CA-C	5.23	117.80	109.96
13	o	5219	THR	N-CA-C	5.23	117.13	109.24
2	B	276	ASP	N-CA-C	-5.22	105.28	110.97
20	z	5039	LEU	N-CA-C	-5.22	106.17	112.54
13	O	103	SER	N-CA-C	5.22	117.27	110.43
2	b	5463	PHE	N-CA-C	-5.22	106.01	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	o	5103	SER	N-CA-C	5.22	117.27	110.43
1	a	5065	GLU	N-CA-C	-5.22	98.00	109.11
20	Z	39	LEU	N-CA-C	-5.21	106.18	112.54
4	d	5282	SER	N-CA-C	-5.21	104.51	111.24
1	A	65	GLU	N-CA-C	-5.21	98.01	109.11
13	O	44	LYS	N-CA-C	-5.21	100.75	109.24
13	o	5044	LYS	N-CA-C	-5.20	100.76	109.24
13	O	219	THR	N-CA-C	5.20	117.09	109.24
4	D	282	SER	N-CA-C	-5.17	104.57	111.24
2	b	5359	MET	CA-C-N	5.17	125.33	119.90
2	b	5359	MET	C-N-CA	5.17	125.33	119.90
13	O	45	CYS	N-CA-C	5.16	118.00	110.10
8	I	29	ALA	N-CA-C	-5.16	102.42	110.42
7	H	27	THR	N-CA-C	5.16	117.80	111.82
8	i	5029	ALA	N-CA-C	-5.15	102.44	110.42
2	B	359	MET	CA-C-N	5.14	125.30	119.90
2	B	359	MET	C-N-CA	5.14	125.30	119.90
13	o	5045	CYS	N-CA-C	5.14	117.97	110.10
7	h	5027	THR	N-CA-C	5.14	117.78	111.82
16	V	136	LYS	N-CA-C	-5.14	105.33	111.03
1	A	311	GLY	N-CA-C	-5.13	108.25	114.92
4	D	80	THR	N-CA-C	-5.13	98.47	109.81
1	a	5311	GLY	N-CA-C	-5.13	108.25	114.92
2	b	5239	SER	N-CA-C	-5.13	105.77	112.23
4	d	5080	THR	N-CA-C	-5.13	98.47	109.81
2	B	239	SER	N-CA-C	-5.13	105.77	112.23
16	v	5136	LYS	N-CA-C	-5.12	105.34	111.03
2	b	5483	ASP	CA-C-N	5.10	126.22	119.84
2	b	5483	ASP	C-N-CA	5.10	126.22	119.84
15	U	10	VAL	N-CA-C	5.10	115.71	108.42
4	d	5260	ALA	N-CA-C	5.10	116.70	108.34
11	l	5004	ASN	N-CA-C	-5.10	103.61	109.93
13	O	60	SER	N-CA-C	-5.10	99.94	110.80
4	D	260	ALA	N-CA-C	5.09	116.69	108.34
11	L	4	ASN	N-CA-C	-5.09	103.62	109.93
13	o	5060	SER	N-CA-C	-5.08	99.97	110.80
15	u	5010	VAL	N-CA-C	5.08	115.68	108.42
3	c	5203	THR	N-CA-C	5.08	117.89	109.46
5	e	5041	GLY	N-CA-C	-5.08	107.81	115.32
2	B	483	ASP	CA-C-N	5.07	126.18	119.84
2	B	483	ASP	C-N-CA	5.07	126.18	119.84
5	E	41	GLY	N-CA-C	-5.07	107.81	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	O	266	TYR	N-CA-C	-5.06	102.97	110.46
1	A	259	ILE	N-CA-C	5.05	119.86	109.34
3	C	203	THR	N-CA-C	5.05	117.85	109.46
2	b	5470	GLY	N-CA-C	-5.04	106.68	112.73
2	B	470	GLY	N-CA-C	-5.04	106.68	112.73
1	a	5259	ILE	N-CA-C	5.04	119.82	109.34
1	A	265	PHE	N-CA-C	5.03	117.17	109.07
13	o	5266	TYR	N-CA-C	-5.03	103.02	110.46
1	a	5265	PHE	N-CA-C	5.02	117.15	109.07
4	D	67	TYR	N-CA-C	-5.02	105.09	111.11

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	776	0
1	a	2630	0	2528	771	0
2	B	3835	0	3700	851	0
2	b	3835	0	3700	836	0
3	C	3455	0	3376	877	0
3	c	3455	0	3376	878	0
4	D	2706	0	2607	781	0
4	d	2706	0	2608	776	0
5	E	666	0	651	111	0
5	e	666	0	651	112	0
6	F	282	0	291	84	0
6	f	282	0	291	83	0
7	H	507	0	529	146	0
7	h	507	0	529	155	0
8	I	287	0	308	65	0
8	i	287	0	305	64	0
9	J	249	0	262	64	0
9	j	249	0	262	63	0
10	K	278	0	289	88	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	k	278	0	289	118	0
11	L	304	0	316	82	0
11	l	304	0	313	87	0
12	M	283	0	297	81	0
12	m	283	0	294	82	0
13	O	1860	0	1833	325	0
13	o	1860	0	1833	334	0
14	T	257	0	261	60	0
14	t	257	0	259	61	0
15	U	783	0	779	143	0
15	u	783	0	779	148	0
16	V	1064	0	1072	218	0
16	v	1064	0	1072	209	0
17	X	246	0	269	39	0
17	x	246	0	269	36	0
18	Y	208	0	237	77	0
18	y	208	0	237	76	0
19	N	116	0	26	5	0
19	n	116	0	26	5	0
20	Z	479	0	516	74	0
20	z	479	0	513	74	0
21	A	5	0	0	0	0
21	a	5	0	0	0	0
22	A	195	0	216	133	0
22	B	975	0	1080	648	0
22	C	780	0	864	478	0
22	D	195	0	216	151	0
22	H	65	0	72	46	0
22	K	65	0	72	89	0
22	a	195	0	216	135	0
22	b	975	0	1080	640	0
22	c	780	0	864	473	0
22	d	195	0	216	149	0
22	h	65	0	72	47	0
22	k	65	0	72	93	0
23	A	64	0	74	63	0
23	D	64	0	74	51	0
23	a	64	0	74	63	0
23	d	64	0	74	52	0
24	A	45	0	64	36	0
24	D	45	0	64	56	0
24	a	45	0	64	35	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
24	d	45	0	64	55	0
25	A	40	0	47	25	0
25	B	120	0	142	86	0
25	C	80	0	96	76	0
25	D	40	0	48	40	0
25	H	40	0	48	34	0
25	K	40	0	47	27	0
25	T	80	0	95	67	0
25	Z	40	0	47	17	0
25	a	40	0	47	26	0
25	b	80	0	95	62	0
25	c	40	0	48	36	0
25	d	40	0	48	39	0
25	h	40	0	48	34	0
25	k	80	0	95	74	0
25	t	40	0	48	44	0
25	z	40	0	47	19	0
26	A	49	0	74	36	0
26	a	49	0	74	36	0
27	A	1	0	0	1	0
27	B	1	0	0	3	0
27	D	2	0	0	9	0
27	T	1	0	0	2	0
27	a	1	0	0	0	0
27	b	1	0	0	0	0
27	d	2	0	0	9	0
27	t	1	0	0	4	0
28	B	48	0	72	39	0
28	D	96	0	144	66	0
28	L	48	0	72	29	0
28	b	48	0	72	38	0
28	d	96	0	144	67	0
28	l	48	0	72	27	0
29	B	66	0	96	32	0
29	C	198	0	288	118	0
29	b	66	0	96	34	0
29	c	198	0	288	121	0
30	D	1	0	0	0	0
30	a	1	0	0	0	0
31	F	43	0	30	17	0
31	V	43	0	30	12	0
31	f	43	0	30	17	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	v	43	0	30	10	0
All	All	48060	0	48531	11725	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 121.

All (11725) 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)
4:d:5169:PHE:HB3	27:d:6068:IOD:I	1.69	1.61
14:t:5012:CYS:SG	27:t:6066:IOD:I	1.65	1.58
25:k:6052:BCR:H371	25:k:6052:BCR:C26	1.34	1.56
22:B:1011:CLA:HED2	22:B:1012:CLA:CED	1.31	1.53
22:b:6011:CLA:HED2	22:b:6012:CLA:CED	1.31	1.53
25:C:1052:BCR:H371	25:C:1052:BCR:C26	1.34	1.50
22:b:6016:CLA:H162	22:d:6008:CLA:CMA	1.37	1.50
22:B:1016:CLA:H162	22:D:1008:CLA:CMA	1.38	1.49
22:A:1003:CLA:HED2	22:A:1003:CLA:CAA	1.44	1.47
22:a:6003:CLA:HED2	22:a:6003:CLA:CAA	1.43	1.47
22:B:1009:CLA:CAD	22:B:1010:CLA:HBB2	1.46	1.45
2:b:5065:PHE:CE2	22:b:6012:CLA:HMA2	1.53	1.43
22:b:6009:CLA:CAD	22:b:6010:CLA:HBB2	1.46	1.43
2:B:65:PHE:CE2	22:B:1012:CLA:HMA2	1.53	1.43
22:b:6022:CLA:C14	22:b:6022:CLA:H93	1.49	1.42
22:A:1003:CLA:C2	23:A:1038:PHO:HBB1	1.50	1.41
22:b:6016:CLA:H52	22:h:6017:CLA:C9	1.50	1.41
22:B:1009:CLA:HBA1	22:B:1009:CLA:CGD	1.49	1.41
22:B:1022:CLA:H62	22:B:1022:CLA:C14	1.50	1.41
22:a:6003:CLA:C2	23:a:6038:PHO:HBB1	1.50	1.41
3:c:5343:ARG:NH1	3:c:5348:GLU:HG3	1.34	1.41
3:C:343:ARG:NH1	3:C:348:GLU:HG3	1.34	1.41
22:a:6003:CLA:H2	23:a:6038:PHO:CBB	1.52	1.40
22:B:1016:CLA:H52	22:H:1017:CLA:C9	1.50	1.40
22:b:6009:CLA:HBA1	22:b:6009:CLA:CGD	1.49	1.40
22:b:6022:CLA:C14	22:b:6022:CLA:H62	1.49	1.40
22:B:1022:CLA:C14	22:B:1022:CLA:H93	1.49	1.39
22:b:6016:CLA:C16	22:d:6008:CLA:HMA1	1.52	1.39
22:A:1003:CLA:H2	23:A:1038:PHO:CBB	1.52	1.39
22:B:1016:CLA:C16	22:D:1008:CLA:HMA1	1.52	1.38
22:b:6021:CLA:C1A	22:b:6021:CLA:HED2	1.54	1.38
22:b:6009:CLA:C14	22:b:6009:CLA:H8	1.53	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1023:CLA:HED2	22:B:1024:CLA:CBB	1.55	1.37
22:B:1009:CLA:C14	22:B:1009:CLA:H8	1.52	1.36
22:b:6016:CLA:C5	22:h:6017:CLA:H91	1.56	1.36
25:c:6054:BCR:H23C	25:c:6054:BCR:C40	1.52	1.36
22:B:1016:CLA:C5	22:H:1017:CLA:H91	1.56	1.36
22:a:6003:CLA:CED	22:a:6003:CLA:HAA2	1.56	1.36
22:b:6015:CLA:HBC1	25:b:6045:BCR:C34	1.56	1.36
22:c:6025:CLA:CMB	22:c:6025:CLA:H42	1.53	1.36
22:C:1025:CLA:H42	22:C:1025:CLA:CMB	1.53	1.35
22:d:6008:CLA:CMA	22:d:6008:CLA:HBA1	1.53	1.35
22:b:6009:CLA:CED	22:b:6009:CLA:HAA1	1.54	1.35
22:B:1009:CLA:CED	22:B:1009:CLA:HAA1	1.54	1.35
22:B:1021:CLA:C1A	22:B:1021:CLA:HED2	1.54	1.35
22:A:1003:CLA:HAA2	22:A:1003:CLA:CED	1.56	1.34
22:B:1020:CLA:H161	22:B:1020:CLA:C10	1.57	1.34
25:h:6049:BCR:H23C	25:h:6049:BCR:C39	1.51	1.34
22:B:1021:CLA:H142	22:B:1021:CLA:C10	1.57	1.34
22:b:6020:CLA:C10	22:b:6020:CLA:H161	1.57	1.34
25:A:1044:BCR:H371	25:A:1044:BCR:C39	1.59	1.33
25:B:1048:BCR:H371	25:B:1048:BCR:C40	1.59	1.33
24:D:1042:PQ9:H42	24:D:1042:PQ9:C39	1.58	1.33
25:T:6048:BCR:C39	25:T:6048:BCR:H371	1.59	1.33
25:T:6048:BCR:H371	25:T:6048:BCR:C40	1.59	1.33
22:b:6010:CLA:H162	22:b:6010:CLA:C11	1.56	1.33
22:b:6023:CLA:HED2	22:b:6024:CLA:CBB	1.55	1.33
22:B:1009:CLA:C2A	22:B:1009:CLA:HED3	1.58	1.32
22:B:1015:CLA:HBC1	25:B:1045:BCR:C34	1.55	1.32
22:b:6009:CLA:HED3	22:b:6009:CLA:C2A	1.58	1.32
22:d:6005:CLA:HAA2	24:d:6042:PQ9:C41	1.59	1.32
25:A:1044:BCR:H371	25:A:1044:BCR:C40	1.59	1.32
22:c:6032:CLA:HAB	22:k:6034:CLA:CMC	1.57	1.32
22:C:1032:CLA:HAB	22:K:1034:CLA:CMC	1.57	1.32
24:D:1042:PQ9:H391	24:D:1042:PQ9:C42	1.49	1.32
25:a:6044:BCR:H371	25:a:6044:BCR:C40	1.59	1.31
22:D:1005:CLA:HAA2	24:D:1042:PQ9:C41	1.59	1.31
22:D:1008:CLA:CMA	22:D:1008:CLA:HBA1	1.53	1.31
25:H:1049:BCR:H23C	25:H:1049:BCR:C39	1.51	1.31
22:B:1010:CLA:H162	22:B:1010:CLA:C11	1.56	1.31
25:a:6044:BCR:H371	25:a:6044:BCR:C39	1.59	1.31
23:d:6039:PHO:HBA2	23:d:6039:PHO:CMA	1.51	1.31
22:B:1011:CLA:CED	22:B:1012:CLA:HED1	1.61	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B:1047:BCR:H371	25:B:1047:BCR:C39	1.59	1.30
28:b:6060:MGE:H212	28:b:6060:MGE:CFB	1.54	1.30
25:b:6047:BCR:H371	25:b:6047:BCR:C40	1.59	1.30
25:B:1048:BCR:H371	25:B:1048:BCR:C39	1.59	1.30
25:B:1047:BCR:H371	25:B:1047:BCR:C40	1.59	1.30
3:C:50:LEU:C	3:C:50:LEU:HD23	1.57	1.30
25:C:1052:BCR:H371	25:C:1052:BCR:C38	1.61	1.30
25:b:6047:BCR:H371	25:b:6047:BCR:C39	1.59	1.29
28:d:6059:MGE:CBB	28:d:6059:MGE:H251	1.60	1.29
25:k:6052:BCR:H371	25:k:6052:BCR:C38	1.61	1.28
22:b:6011:CLA:CED	22:b:6012:CLA:HED1	1.61	1.28
22:C:1027:CLA:H171	22:C:1027:CLA:C12	1.59	1.28
22:b:6023:CLA:H13	22:b:6024:CLA:CMA	1.64	1.28
25:C:1054:BCR:H23C	25:C:1054:BCR:C40	1.52	1.27
25:A:1044:BCR:H392	25:A:1044:BCR:C37	1.65	1.27
22:C:1032:CLA:H151	10:K:33:PHE:CZ	1.67	1.27
25:b:6047:BCR:H371	25:b:6047:BCR:C30	1.65	1.27
2:b:5475:PHE:CE1	4:d:5140:PRO:HG3	1.68	1.26
3:c:5050:LEU:HD23	3:c:5050:LEU:C	1.57	1.26
22:c:6029:CLA:H42	22:c:6029:CLA:C4C	1.63	1.26
2:B:475:PHE:CE1	4:D:140:PRO:HG3	1.68	1.26
24:d:6042:PQ9:H42	24:d:6042:PQ9:C39	1.58	1.26
23:D:1039:PHO:HBA2	23:D:1039:PHO:CMA	1.51	1.26
25:a:6044:BCR:H371	25:a:6044:BCR:C30	1.65	1.26
25:a:6044:BCR:C37	25:a:6044:BCR:H392	1.65	1.26
22:b:6021:CLA:H142	22:b:6021:CLA:C10	1.57	1.26
22:c:6027:CLA:C12	22:c:6027:CLA:H171	1.59	1.26
22:C:1025:CLA:H12	22:C:1025:CLA:CHB	1.66	1.26
22:C:1029:CLA:H42	22:C:1029:CLA:C4C	1.62	1.26
16:V:64:ALA:O	16:V:68:VAL:HG12	1.35	1.25
22:b:6022:CLA:C9	22:b:6022:CLA:HBC3	1.66	1.25
24:d:6042:PQ9:H391	24:d:6042:PQ9:C42	1.49	1.25
25:A:1044:BCR:C37	25:A:1044:BCR:H403	1.65	1.25
25:B:1048:BCR:H392	25:B:1048:BCR:C37	1.66	1.25
22:d:6008:CLA:H193	22:d:6008:CLA:C14	1.65	1.25
25:A:1044:BCR:H371	25:A:1044:BCR:C30	1.65	1.25
22:B:1023:CLA:H13	22:B:1024:CLA:CMA	1.64	1.25
25:B:1047:BCR:H371	25:B:1047:BCR:C30	1.65	1.25
25:B:1048:BCR:C37	25:B:1048:BCR:H403	1.66	1.25
22:D:1008:CLA:H193	22:D:1008:CLA:C14	1.65	1.25
28:D:1059:MGE:H251	28:D:1059:MGE:CBB	1.60	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1009:CLA:HBD	22:B:1010:CLA:CBB	1.65	1.25
25:B:1047:BCR:H392	25:B:1047:BCR:C37	1.66	1.25
25:T:6048:BCR:H371	25:T:6048:BCR:C30	1.65	1.25
29:b:6058:DGD:HBF2	29:b:6058:DGD:CIB	1.65	1.25
22:c:6025:CLA:H12	22:c:6025:CLA:CHB	1.66	1.25
22:B:1022:CLA:HBC3	22:B:1022:CLA:C9	1.65	1.24
29:B:1058:DGD:HBF2	29:B:1058:DGD:CIB	1.65	1.24
22:D:1005:CLA:CAA	24:D:1042:PQ9:H412	1.66	1.24
25:a:6044:BCR:C37	25:a:6044:BCR:H403	1.65	1.24
25:b:6047:BCR:C37	25:b:6047:BCR:H392	1.66	1.24
25:T:6048:BCR:H392	25:T:6048:BCR:C37	1.66	1.24
22:b:6009:CLA:HBD	22:b:6010:CLA:CBB	1.65	1.24
22:B:1022:CLA:C9	22:B:1022:CLA:H122	1.67	1.24
22:K:1034:CLA:HAA2	22:K:1034:CLA:O1D	1.35	1.24
22:b:6022:CLA:C9	22:b:6022:CLA:H122	1.67	1.24
25:b:6047:BCR:C37	25:b:6047:BCR:H403	1.66	1.24
22:C:1030:CLA:H172	22:C:1030:CLA:C12	1.64	1.24
22:d:6005:CLA:CAA	24:d:6042:PQ9:H412	1.66	1.23
25:T:6048:BCR:C37	25:T:6048:BCR:H403	1.66	1.23
25:B:1048:BCR:H371	25:B:1048:BCR:C30	1.65	1.23
28:B:1060:MGE:H212	28:B:1060:MGE:CFB	1.54	1.23
3:c:5265:ILE:CD1	3:c:5452:ALA:HB2	1.68	1.23
22:k:6034:CLA:HAA2	22:k:6034:CLA:O1D	1.35	1.23
26:a:6063:LHG:H341	26:a:6063:LHG:C38	1.65	1.22
22:B:1022:CLA:HAA1	22:B:1022:CLA:CGD	1.70	1.22
25:B:1047:BCR:C37	25:B:1047:BCR:H403	1.66	1.22
3:C:265:ILE:CD1	3:C:452:ALA:HB2	1.68	1.22
16:v:5064:ALA:O	16:v:5068:VAL:HG12	1.35	1.22
22:b:6011:CLA:H3A	22:b:6011:CLA:CGA	1.60	1.21
22:D:1008:CLA:H143	22:D:1008:CLA:C19	1.70	1.21
22:B:1020:CLA:H161	22:B:1020:CLA:H102	1.23	1.20
10:k:5032:PHE:HE1	25:k:6052:BCR:C22	1.52	1.20
1:A:279:ARG:NH1	23:A:1038:PHO:HMC2	1.54	1.20
22:B:1021:CLA:HED3	22:B:1021:CLA:C2A	1.72	1.20
22:b:6009:CLA:CBD	22:b:6010:CLA:CBB	2.20	1.20
22:b:6022:CLA:HAA1	22:b:6022:CLA:CGD	1.70	1.20
26:A:1063:LHG:H341	26:A:1063:LHG:C38	1.64	1.20
4:D:253:TRP:HA	4:D:256:ILE:HG22	1.23	1.20
2:B:172:TYR:O	2:B:174:LEU:HA	1.41	1.20
22:B:1009:CLA:HED3	22:B:1009:CLA:CAA	1.72	1.20
22:b:6021:CLA:C2A	22:b:6021:CLA:HED3	1.72	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:b:6011:CLA:H12	22:b:6013:CLA:H93	1.24	1.19
22:c:6025:CLA:OBD	22:c:6025:CLA:HED3	1.40	1.19
22:A:1003:CLA:C4	22:A:1003:CLA:H71	1.68	1.19
22:B:1011:CLA:C19	22:H:1017:CLA:H101	1.72	1.19
22:d:6008:CLA:H143	22:d:6008:CLA:C19	1.70	1.19
28:B:1060:MGE:H251	28:B:1060:MGE:CBB	1.72	1.19
29:c:6057:DGD:CIB	29:c:6057:DGD:HBF2	1.73	1.19
22:C:1025:CLA:HED3	22:C:1025:CLA:OBD	1.40	1.19
22:b:6009:CLA:HED3	22:b:6009:CLA:CAA	1.72	1.19
4:d:5169:PHE:CB	27:d:6068:IOD:I	2.61	1.19
2:b:5172:TYR:O	2:b:5174:LEU:HA	1.41	1.19
22:c:6037:CLA:HBC2	22:c:6037:CLA:HHD	1.25	1.19
22:B:1009:CLA:CBD	22:B:1010:CLA:CBB	2.20	1.18
29:C:1056:DGD:HBF2	29:C:1056:DGD:CIB	1.70	1.18
1:A:279:ARG:HH11	23:A:1038:PHO:CMC	1.54	1.18
22:B:1016:CLA:H2	22:H:1017:CLA:H93	1.20	1.18
22:b:6011:CLA:C19	22:h:6017:CLA:H101	1.72	1.18
22:c:6030:CLA:H172	22:c:6030:CLA:C12	1.64	1.18
22:B:1011:CLA:H12	22:B:1013:CLA:H93	1.24	1.18
23:a:6038:PHO:H201	22:d:6005:CLA:C2B	1.73	1.18
29:c:6056:DGD:HBG2	29:c:6056:DGD:CEB	1.71	1.18
22:B:1009:CLA:H121	22:B:1009:CLA:C9	1.73	1.17
29:C:1057:DGD:HBF2	29:C:1057:DGD:CIB	1.73	1.17
1:a:5205:VAL:HA	1:a:5279:ARG:HH11	1.04	1.17
22:a:6003:CLA:HED2	22:a:6003:CLA:C2A	1.72	1.17
22:b:6018:CLA:C10	22:b:6023:CLA:HAA1	1.74	1.17
22:c:6025:CLA:C15	22:c:6031:CLA:H92	1.74	1.17
22:c:6030:CLA:H121	22:c:6030:CLA:C17	1.74	1.17
23:A:1038:PHO:H201	22:D:1005:CLA:C2B	1.73	1.17
22:B:1011:CLA:CGA	22:B:1011:CLA:H3A	1.60	1.17
22:B:1018:CLA:C10	22:B:1023:CLA:HAA1	1.74	1.17
3:C:46:SER:HB2	3:C:141:GLU:HB2	1.21	1.17
29:C:1056:DGD:HD61	29:C:1056:DGD:C3E	1.73	1.17
25:T:6046:BCR:H281	22:b:6015:CLA:HAC2	1.25	1.17
22:b:6022:CLA:HAA1	22:b:6022:CLA:O1D	1.45	1.17
4:d:5201:VAL:HG23	22:d:6004:CLA:HMB2	1.27	1.17
22:K:1034:CLA:HAA2	22:K:1034:CLA:CGD	1.76	1.16
22:c:6029:CLA:H51	22:c:6029:CLA:C4B	1.75	1.16
29:c:6056:DGD:HBF2	29:c:6056:DGD:CIB	1.70	1.16
25:k:6051:BCR:H23C	25:k:6051:BCR:H403	1.22	1.16
22:B:1015:CLA:HAC2	25:t:1046:BCR:H281	1.25	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5169:SER:HB3	2:b:5176:GLY:HA2	1.24	1.16
31:f:6040:HEM:HBA2	31:f:6040:HEM:CMA	1.68	1.16
31:F:1040:HEM:HBA2	31:F:1040:HEM:CMA	1.68	1.16
22:a:6003:CLA:C4	22:a:6003:CLA:H71	1.68	1.16
22:c:6035:CLA:H8	25:k:6052:BCR:C40	1.76	1.16
22:A:1003:CLA:HED2	22:A:1003:CLA:C2A	1.72	1.16
28:b:6060:MGE:H251	28:b:6060:MGE:CBB	1.72	1.16
22:A:1003:CLA:C14	23:A:1038:PHO:H8	1.76	1.16
22:B:1009:CLA:H91	22:B:1009:CLA:C12	1.72	1.16
22:c:6035:CLA:H8	25:k:6052:BCR:H403	1.19	1.16
22:k:6034:CLA:C4	22:k:6034:CLA:H71	1.70	1.16
1:A:279:ARG:HD3	4:D:208:ALA:HB1	1.22	1.15
2:B:169:SER:HB3	2:B:176:GLY:HA2	1.24	1.15
22:B:1010:CLA:H112	22:B:1010:CLA:C16	1.71	1.15
29:C:1056:DGD:HBG2	29:C:1056:DGD:CEB	1.71	1.15
2:b:5475:PHE:CD1	4:d:5140:PRO:HG3	1.82	1.15
22:b:6011:CLA:H3A	22:b:6011:CLA:O1A	1.43	1.15
22:B:1021:CLA:H2A	22:B:1021:CLA:CED	1.76	1.15
29:C:1057:DGD:C8B	28:D:1059:MGE:H8B2	1.75	1.15
4:D:139:ARG:HH12	4:D:265:ARG:NH2	1.43	1.15
25:T:6046:BCR:H401	2:b:5036:SER:HB3	1.27	1.15
29:c:6057:DGD:C8B	28:d:6059:MGE:H8B2	1.75	1.15
4:d:5139:ARG:HH12	4:d:5265:ARG:NH2	1.43	1.15
22:d:6005:CLA:CBC	22:d:6004:CLA:HBB2	1.77	1.15
22:k:6034:CLA:HAA2	22:k:6034:CLA:CGD	1.75	1.15
22:A:1006:CLA:HBC3	22:A:1006:CLA:HHD	1.24	1.15
22:B:1016:CLA:H193	22:H:1017:CLA:H191	1.21	1.15
22:C:1029:CLA:C4B	22:C:1029:CLA:H51	1.75	1.15
22:K:1034:CLA:C4	22:K:1034:CLA:H71	1.70	1.15
22:b:6016:CLA:H193	22:h:6017:CLA:H191	1.21	1.15
4:d:5253:TRP:HA	4:d:5256:ILE:HG22	1.23	1.15
2:B:174:LEU:HD23	2:B:266:GLU:HG2	1.28	1.15
22:C:1025:CLA:C15	22:C:1031:CLA:H92	1.74	1.15
22:C:1030:CLA:C17	22:C:1030:CLA:H121	1.74	1.15
22:C:1035:CLA:H8	25:C:1052:BCR:H403	1.19	1.15
26:a:6063:LHG:H383	26:a:6063:LHG:C34	1.72	1.15
22:b:6016:CLA:H2	22:h:6017:CLA:H93	1.20	1.15
1:A:321:ILE:HD11	4:D:176:ALA:HB1	1.25	1.14
22:B:1015:CLA:C7	22:B:1015:CLA:H41	1.76	1.14
22:C:1031:CLA:HBC2	22:C:1031:CLA:HHD	1.24	1.14
22:C:1035:CLA:H8	25:C:1052:BCR:C40	1.76	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D:1050:BCR:C37	28:D:1059:MGE:H3A1	1.78	1.14
22:b:6009:CLA:CAD	22:b:6010:CLA:CBB	2.25	1.14
22:b:6015:CLA:OBD	22:b:6015:CLA:HED2	1.46	1.14
22:B:1022:CLA:HAA1	22:B:1022:CLA:O1D	1.45	1.14
2:b:5174:LEU:HD22	2:b:5312:TYR:OH	1.48	1.14
22:b:6015:CLA:HBC1	25:b:6045:BCR:H342	1.27	1.14
22:b:6015:CLA:HBC1	25:b:6045:BCR:H343	1.28	1.14
22:A:1007:CLA:OBD	22:A:1007:CLA:HED2	1.48	1.14
2:B:149:LEU:HG	22:B:1011:CLA:HBC1	1.24	1.14
22:B:1009:CLA:CAD	22:B:1010:CLA:CBB	2.25	1.14
22:B:1014:CLA:HBC2	22:B:1014:CLA:HHD	1.24	1.14
25:Z:1053:BCR:H372	25:Z:1053:BCR:H361	1.19	1.14
22:b:6014:CLA:H41	22:b:6014:CLA:C7	1.75	1.14
25:d:6050:BCR:C37	28:d:6059:MGE:H3A1	1.78	1.14
26:A:1063:LHG:H383	26:A:1063:LHG:C34	1.71	1.14
2:B:475:PHE:CD1	4:D:140:PRO:HG3	1.81	1.14
22:D:1005:CLA:CBC	22:D:1004:CLA:HBB2	1.77	1.14
1:a:5321:ILE:HD11	4:d:5176:ALA:HB1	1.25	1.14
22:C:1025:CLA:H141	22:C:1031:CLA:HMB3	1.20	1.14
1:a:5205:VAL:CB	1:a:5279:ARG:HH12	1.60	1.14
29:b:6058:DGD:HBT1	29:b:6058:DGD:HB61	1.20	1.14
2:B:65:PHE:CE2	22:B:1012:CLA:CMA	2.31	1.13
22:C:1032:CLA:HAB	22:K:1034:CLA:HMC3	1.17	1.13
10:k:5032:PHE:CE1	25:k:6052:BCR:C22	2.30	1.13
22:A:1006:CLA:H172	25:D:1050:BCR:H282	1.29	1.13
22:b:6009:CLA:CMB	25:h:6049:BCR:H271	1.77	1.13
22:b:6021:CLA:H2A	22:b:6021:CLA:CED	1.76	1.13
22:c:6025:CLA:H141	22:c:6031:CLA:HMB3	1.20	1.13
6:f:5045:ARG:HA	6:f:5045:ARG:HE	1.13	1.13
22:k:6034:CLA:H43	22:k:6034:CLA:CGA	1.77	1.13
22:C:1025:CLA:H12	22:C:1025:CLA:HHB	1.22	1.13
22:C:1031:CLA:OBD	22:C:1033:CLA:H122	1.47	1.13
22:K:1034:CLA:CGA	22:K:1034:CLA:H43	1.77	1.13
22:a:6003:CLA:C14	23:a:6038:PHO:H8	1.76	1.13
22:a:6007:CLA:OBD	22:a:6007:CLA:HED2	1.48	1.13
22:B:1011:CLA:H3A	22:B:1011:CLA:O1A	1.43	1.13
22:B:1015:CLA:OBD	22:B:1015:CLA:HED2	1.46	1.13
1:A:258:LEU:HD12	4:D:128:ARG:HH21	1.14	1.12
2:B:36:SER:HB3	25:t:1046:BCR:H401	1.27	1.12
22:B:1009:CLA:CMB	25:H:1049:BCR:H271	1.77	1.12
22:B:1022:CLA:H11	22:B:1022:CLA:C4D	1.79	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B:1045:BCR:H23C	25:B:1045:BCR:H383	1.30	1.13
29:B:1058:DGD:CEB	29:B:1058:DGD:HBG2	1.74	1.12
22:b:6009:CLA:H121	22:b:6009:CLA:C9	1.73	1.13
22:b:6018:CLA:HHC	22:b:6018:CLA:HBB1	1.31	1.13
22:b:6022:CLA:H11	22:b:6022:CLA:C4D	1.79	1.13
22:c:6037:CLA:HBB1	22:c:6037:CLA:HHC	1.31	1.12
22:C:1037:CLA:HHD	22:C:1037:CLA:HBC2	1.25	1.12
6:F:45:ARG:HA	6:F:45:ARG:HE	1.13	1.12
2:b:5065:PHE:CE2	22:b:6012:CLA:CMA	2.31	1.12
25:b:6045:BCR:H23C	25:b:6045:BCR:H383	1.30	1.12
29:b:6058:DGD:HBG2	29:b:6058:DGD:CEB	1.74	1.12
3:c:5046:SER:CB	3:c:5141:GLU:HB2	1.80	1.12
22:c:6035:CLA:HHC	22:c:6035:CLA:HBB1	1.30	1.12
1:A:337:HIS:O	4:D:351:ALA:HB2	1.50	1.12
2:b:5149:LEU:HG	22:b:6011:CLA:HBC1	1.24	1.12
28:d:6059:MGE:H251	28:d:6059:MGE:H211	1.15	1.12
22:b:6011:CLA:C2D	22:b:6013:CLA:H42	1.79	1.12
22:b:6023:CLA:H13	22:b:6024:CLA:HMA3	1.17	1.12
22:c:6031:CLA:OBD	22:c:6033:CLA:H122	1.47	1.12
10:k:5032:PHE:HZ	25:k:6052:BCR:H361	1.11	1.12
22:B:1022:CLA:HHD	22:B:1022:CLA:HBC2	1.26	1.11
4:D:88:SER:HA	7:H:50:ASN:HD21	1.12	1.11
10:k:5039:VAL:HG22	18:y:5036:ILE:HD11	1.27	1.11
3:C:49:LEU:HD22	3:C:52:ALA:H	1.01	1.11
3:C:275:SER:HB3	22:C:1033:CLA:CED	1.79	1.11
22:a:6003:CLA:H71	22:a:6003:CLA:H41	1.31	1.11
3:c:5275:SER:HB3	22:c:6033:CLA:CED	1.79	1.11
22:c:6031:CLA:HHD	22:c:6031:CLA:HBC2	1.24	1.11
2:b:5174:LEU:HD23	2:b:5266:GLU:HG2	1.28	1.11
22:B:1011:CLA:C2D	22:B:1013:CLA:H42	1.79	1.11
25:K:1051:BCR:H403	25:K:1051:BCR:H23C	1.22	1.11
22:b:6015:CLA:HED2	22:b:6015:CLA:CAD	1.79	1.11
3:c:5049:LEU:HD21	22:c:6035:CLA:HMA3	1.25	1.11
25:k:6051:BCR:H353	18:y:5032:GLY:HA3	1.32	1.11
22:A:1003:CLA:H142	23:A:1038:PHO:H8	1.17	1.11
22:B:1015:CLA:HED2	22:B:1015:CLA:CAD	1.79	1.11
3:C:46:SER:CB	3:C:141:GLU:HB2	1.80	1.11
22:C:1025:CLA:H151	22:C:1031:CLA:C9	1.80	1.11
22:C:1026:CLA:H71	22:C:1026:CLA:H122	1.33	1.11
24:D:1042:PQ9:H301	24:D:1042:PQ9:H342	1.32	1.11
22:b:6020:CLA:HED1	22:b:6021:CLA:HMB2	1.32	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6030:CLA:HHD	22:c:6030:CLA:HBC2	1.32	1.11
24:d:6042:PQ9:H342	24:d:6042:PQ9:H301	1.32	1.11
25:d:6050:BCR:H372	28:d:6059:MGE:H3A1	1.16	1.11
22:A:1006:CLA:H172	25:D:1050:BCR:C28	1.80	1.10
22:b:6009:CLA:H91	22:b:6009:CLA:C12	1.72	1.10
4:d:5088:SER:HA	7:h:5050:ASN:HD21	1.12	1.10
26:A:1063:LHG:H291	22:C:1032:CLA:C7	1.81	1.10
2:B:5:TRP:HA	2:B:8:VAL:HG13	1.34	1.10
22:B:1015:CLA:HBC1	25:B:1045:BCR:H342	1.27	1.10
29:B:1058:DGD:HBT1	29:B:1058:DGD:HB61	1.20	1.10
22:C:1032:CLA:C15	10:K:33:PHE:HZ	1.65	1.10
25:D:1050:BCR:H23C	25:D:1050:BCR:H383	1.11	1.10
22:b:6016:CLA:H2	22:h:6017:CLA:C9	1.81	1.10
29:c:6056:DGD:HD61	29:c:6056:DGD:C3E	1.73	1.10
22:B:1011:CLA:CMD	22:B:1013:CLA:H42	1.82	1.10
22:b:6014:CLA:HHD	22:b:6014:CLA:HBC2	1.24	1.10
22:b:6022:CLA:HBC2	22:b:6022:CLA:HHD	1.26	1.10
3:c:5046:SER:HB2	3:c:5141:GLU:HB2	1.21	1.10
22:B:1014:CLA:C7	22:B:1014:CLA:H41	1.75	1.10
22:B:1015:CLA:HBC1	25:B:1045:BCR:H343	1.28	1.10
22:B:1022:CLA:C9	22:B:1022:CLA:H142	1.82	1.10
22:b:6020:CLA:H161	22:b:6020:CLA:H102	1.23	1.10
3:c:5049:LEU:HD22	3:c:5052:ALA:H	1.01	1.10
22:c:6032:CLA:HAB	22:k:6034:CLA:HMC3	1.17	1.10
25:z:6053:BCR:H361	25:z:6053:BCR:H372	1.19	1.10
22:A:1003:CLA:H71	22:A:1003:CLA:H41	1.31	1.10
22:C:1030:CLA:HHC	22:C:1030:CLA:HBB1	1.33	1.10
22:a:6006:CLA:H172	25:d:6050:BCR:C28	1.80	1.10
26:a:6063:LHG:H291	22:c:6032:CLA:H72	1.30	1.10
22:b:6022:CLA:C14	22:b:6022:CLA:C9	2.30	1.10
22:c:6025:CLA:H12	22:c:6025:CLA:HHB	1.22	1.10
25:k:6052:BCR:C38	25:k:6052:BCR:C37	2.30	1.10
2:B:174:LEU:HD22	2:B:312:TYR:OH	1.48	1.09
2:b:5005:TRP:HA	2:b:5008:VAL:CG1	1.82	1.09
22:b:6021:CLA:C1A	22:b:6021:CLA:CED	2.30	1.09
22:c:6025:CLA:C4	22:c:6025:CLA:C2B	2.30	1.09
22:d:6005:CLA:H122	22:d:6005:CLA:H91	1.10	1.09
25:d:6050:BCR:H23C	25:d:6050:BCR:H383	1.11	1.09
22:b:6009:CLA:HBD	22:b:6010:CLA:HBB1	1.11	1.09
22:b:6022:CLA:C9	22:b:6022:CLA:H142	1.82	1.09
25:b:6047:BCR:HC8	25:b:6047:BCR:C33	1.83	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6030:CLA:HHD	22:c:6030:CLA:CBC	1.82	1.09
22:c:6030:CLA:HHC	22:c:6030:CLA:HBB1	1.33	1.09
25:h:6049:BCR:H392	25:h:6049:BCR:C23	1.76	1.09
22:C:1035:CLA:HHC	22:C:1035:CLA:HBB1	1.30	1.09
25:C:1052:BCR:C38	25:C:1052:BCR:C37	2.30	1.09
1:a:5205:VAL:HA	1:a:5279:ARG:NH1	1.66	1.09
22:a:6006:CLA:HBC3	22:a:6006:CLA:HHD	1.24	1.09
23:a:6038:PHO:H202	22:d:6005:CLA:HMB1	1.33	1.09
22:b:6015:CLA:H41	22:b:6015:CLA:C7	1.76	1.09
23:d:6039:PHO:HBA2	23:d:6039:PHO:HMA2	1.11	1.09
22:k:6034:CLA:HBC3	22:k:6034:CLA:HHD	1.31	1.09
22:B:1022:CLA:C14	22:B:1022:CLA:C6	2.31	1.09
3:C:49:LEU:CD2	3:C:52:ALA:H	1.66	1.09
3:C:171:GLY:HA2	3:C:174:LEU:HB2	1.35	1.09
22:D:1008:CLA:C14	22:D:1008:CLA:C19	2.30	1.09
22:D:1008:CLA:HHC	22:D:1008:CLA:HBB1	1.29	1.09
22:a:6006:CLA:H172	25:d:6050:BCR:C27	1.83	1.09
22:b:6011:CLA:CED	22:b:6012:CLA:CED	2.24	1.09
22:c:6025:CLA:H122	25:c:6054:BCR:H351	1.12	1.09
22:c:6033:CLA:H143	22:c:6033:CLA:H171	1.10	1.09
22:B:1009:CLA:CGD	22:B:1009:CLA:CBA	2.30	1.09
22:B:1009:CLA:C14	22:B:1009:CLA:C8	2.30	1.09
22:B:1014:CLA:C4	22:B:1014:CLA:H72	1.82	1.09
22:B:1016:CLA:H2	22:H:1017:CLA:C9	1.81	1.09
22:B:1018:CLA:HBB1	22:B:1018:CLA:HHC	1.31	1.09
22:C:1025:CLA:H122	25:C:1054:BCR:H351	1.12	1.09
22:C:1037:CLA:HHC	22:C:1037:CLA:HBB1	1.31	1.09
25:C:1052:BCR:C26	25:C:1052:BCR:C37	2.30	1.09
4:D:201:VAL:HG23	22:D:1004:CLA:HMB2	1.27	1.09
23:D:1039:PHO:HBA2	23:D:1039:PHO:HMA2	1.11	1.09
25:D:1050:BCR:H372	28:D:1059:MGE:H3A1	1.16	1.09
11:L:26:VAL:HG21	28:L:1061:MGE:H232	1.35	1.09
1:a:5205:VAL:HB	1:a:5279:ARG:HH12	0.98	1.09
22:a:6003:CLA:H142	23:a:6038:PHO:H8	1.17	1.09
2:B:5:TRP:HA	2:B:8:VAL:CG1	1.82	1.08
3:C:263:ALA:HB3	3:C:264:PHE:CE2	1.89	1.08
22:C:1025:CLA:C4	22:C:1025:CLA:C2B	2.30	1.08
22:C:1030:CLA:HHD	22:C:1030:CLA:CBC	1.82	1.08
25:T:6046:BCR:HC8	25:T:6046:BCR:H331	1.09	1.08
22:a:6006:CLA:H172	25:d:6050:BCR:H282	1.29	1.08
22:b:6009:CLA:C14	22:b:6009:CLA:C8	2.30	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:b:6021:CLA:H102	22:b:6021:CLA:C14	1.83	1.08
22:c:6025:CLA:H151	22:c:6031:CLA:C9	1.80	1.08
22:C:1027:CLA:H171	22:C:1027:CLA:H122	1.10	1.08
29:C:1057:DGD:HB81	28:D:1059:MGE:H8B2	1.32	1.08
22:K:1034:CLA:HHD	22:K:1034:CLA:HBC3	1.31	1.08
26:a:6063:LHG:H291	22:c:6032:CLA:C7	1.82	1.08
2:b:5005:TRP:HA	2:b:5008:VAL:HG13	1.33	1.08
22:b:6009:CLA:CGD	22:b:6009:CLA:CBA	2.30	1.08
22:d:6008:CLA:HBB1	22:d:6008:CLA:HHC	1.29	1.08
22:B:1020:CLA:HED1	22:B:1021:CLA:HMB2	1.32	1.08
22:B:1021:CLA:C2A	22:B:1021:CLA:CED	2.30	1.08
29:c:6057:DGD:HB81	28:d:6059:MGE:H8B2	1.33	1.08
22:d:6004:CLA:HHC	22:d:6004:CLA:HBB1	1.31	1.08
11:l:5026:VAL:HG21	28:l:6061:MGE:H232	1.35	1.08
29:C:1056:DGD:HE5	29:C:1056:DGD:C6D	1.83	1.08
29:C:1056:DGD:HD62	29:C:1056:DGD:C5E	1.84	1.08
4:D:160:TYR:CZ	27:D:1068:IOD:I	2.77	1.08
22:D:1004:CLA:HBB1	22:D:1004:CLA:HHC	1.31	1.08
28:D:1059:MGE:H251	28:D:1059:MGE:H211	1.15	1.08
29:c:6056:DGD:HE5	29:c:6056:DGD:C6D	1.83	1.08
25:k:6052:BCR:C26	25:k:6052:BCR:C37	2.30	1.08
22:A:1006:CLA:H172	25:D:1050:BCR:C27	1.83	1.08
22:B:1021:CLA:C1A	22:B:1021:CLA:CED	2.30	1.08
22:B:1022:CLA:C14	22:B:1022:CLA:C9	2.30	1.08
22:C:1025:CLA:H122	25:C:1054:BCR:C35	1.84	1.08
22:c:6030:CLA:H172	22:c:6030:CLA:H121	1.10	1.08
22:B:1018:CLA:H101	22:B:1023:CLA:HAA1	1.36	1.07
22:B:1021:CLA:C14	22:B:1021:CLA:H102	1.83	1.07
22:C:1030:CLA:HHD	22:C:1030:CLA:HBC2	1.32	1.07
25:C:1054:BCR:H403	25:C:1054:BCR:C23	1.74	1.07
29:C:1057:DGD:HAF2	28:D:1059:MGE:H222	1.08	1.07
13:O:179:THR:HG22	13:O:180:ALA:H	1.11	1.07
22:b:6022:CLA:H122	22:b:6022:CLA:H91	1.11	1.07
3:c:5263:ALA:HB3	3:c:5264:PHE:CE2	1.89	1.07
22:c:6026:CLA:H122	22:c:6026:CLA:H71	1.33	1.07
29:c:6056:DGD:HD62	29:c:6056:DGD:C5E	1.84	1.07
24:A:1043:PQ9:H451	28:D:1059:MGE:H101	1.08	1.07
26:A:1063:LHG:H291	22:C:1032:CLA:H72	1.33	1.07
22:B:1009:CLA:HHC	22:B:1009:CLA:HBB1	1.35	1.07
25:Z:1053:BCR:H23C	25:Z:1053:BCR:H383	1.11	1.07
22:b:6014:CLA:C4	22:b:6014:CLA:H72	1.82	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1012:CLA:C2D	22:B:1020:CLA:H201	1.84	1.07
22:B:1022:CLA:HBC3	22:B:1022:CLA:H92	1.07	1.07
22:B:1023:CLA:H13	22:B:1024:CLA:HMA3	1.18	1.07
22:C:1026:CLA:CBA	22:C:1027:CLA:HAC1	1.85	1.07
22:b:6012:CLA:C2D	22:b:6020:CLA:H201	1.84	1.07
3:c:5049:LEU:CD2	3:c:5052:ALA:H	1.66	1.07
25:z:6053:BCR:H23C	25:z:6053:BCR:H383	1.11	1.07
3:C:417:VAL:HG12	16:V:68:VAL:HB	1.35	1.07
3:C:417:VAL:HG11	16:V:68:VAL:CG1	1.84	1.07
22:C:1026:CLA:HBA1	22:C:1027:CLA:CAC	1.85	1.07
23:D:1039:PHO:CMA	23:D:1039:PHO:CBA	2.30	1.07
1:a:5337:HIS:O	4:d:5351:ALA:HB2	1.54	1.07
22:b:6009:CLA:C8	22:b:6009:CLA:H143	1.84	1.07
22:b:6010:CLA:H112	22:b:6010:CLA:C16	1.71	1.07
22:b:6022:CLA:C14	22:b:6022:CLA:C6	2.31	1.07
13:o:5179:THR:HG22	13:o:5180:ALA:H	1.12	1.07
2:B:362:PHE:CE1	27:D:1068:IOD:I	2.78	1.07
22:B:1009:CLA:HAA1	22:B:1009:CLA:O2D	1.55	1.07
22:B:1009:CLA:HBD	22:B:1010:CLA:HBB1	1.11	1.07
22:B:1010:CLA:HBD	22:B:1010:CLA:H12	1.35	1.07
22:B:1011:CLA:CGA	22:B:1011:CLA:C3A	2.33	1.07
22:C:1027:CLA:C12	22:C:1027:CLA:C17	2.31	1.07
22:b:6011:CLA:CMD	22:b:6013:CLA:H42	1.82	1.07
3:c:5417:VAL:HG11	16:v:5068:VAL:CG1	1.84	1.07
22:B:1012:CLA:C2D	22:B:1020:CLA:C20	2.33	1.06
22:B:1012:CLA:HBB1	22:B:1015:CLA:CBB	1.85	1.06
22:B:1022:CLA:H122	22:B:1022:CLA:H91	1.11	1.06
5:E:8:ARG:HE	6:F:13:TYR:HB2	1.18	1.06
22:K:1034:CLA:C4	22:K:1034:CLA:CGA	2.33	1.06
25:T:6048:BCR:C40	25:T:6048:BCR:C37	2.30	1.06
22:b:6009:CLA:HED3	22:b:6009:CLA:H2A	1.09	1.06
22:c:6025:CLA:H42	22:c:6025:CLA:HMB1	1.09	1.06
22:c:6026:CLA:CBA	22:c:6027:CLA:HAC1	1.85	1.06
29:c:6056:DGD:C6D	29:c:6056:DGD:HE3	1.84	1.06
10:k:5032:PHE:HE1	25:k:6052:BCR:C21	1.67	1.06
22:A:1003:CLA:H42	23:A:1038:PHO:C4B	1.85	1.06
22:B:1009:CLA:CED	22:B:1009:CLA:CAA	2.30	1.06
3:c:5049:LEU:HD21	3:c:5052:ALA:HB2	1.37	1.06
22:c:6025:CLA:H122	25:c:6054:BCR:C35	1.84	1.06
22:B:1011:CLA:CED	22:B:1012:CLA:CED	2.25	1.06
29:B:1058:DGD:HBT1	29:B:1058:DGD:C6B	1.84	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:D:1062:MGE:O1B	28:D:1062:MGE:H3G2	1.55	1.06
22:a:6003:CLA:H42	23:a:6038:PHO:C4B	1.85	1.06
22:b:6009:CLA:CED	22:b:6009:CLA:CAA	2.30	1.06
24:A:1043:PQ9:H451	28:D:1059:MGE:CAA	1.86	1.06
22:B:1009:CLA:C8	22:B:1009:CLA:H143	1.84	1.06
22:C:1025:CLA:H42	22:C:1025:CLA:HMB1	1.09	1.06
25:K:1051:BCR:H353	18:Y:32:GLY:HA3	1.32	1.06
22:b:6010:CLA:H162	22:b:6010:CLA:H111	1.34	1.06
22:b:6022:CLA:HBC3	22:b:6022:CLA:H92	1.07	1.06
29:b:6058:DGD:HBT1	29:b:6058:DGD:C6B	1.84	1.06
3:c:5049:LEU:CD2	3:c:5052:ALA:HB2	1.86	1.06
22:c:6026:CLA:HBA1	22:c:6027:CLA:CAC	1.85	1.06
22:B:1009:CLA:HED3	22:B:1009:CLA:H2A	1.08	1.06
22:B:1022:CLA:H62	22:B:1022:CLA:H142	1.06	1.06
3:C:32:GLY:HA3	3:C:41:ARG:HD3	1.37	1.06
22:C:1033:CLA:H143	22:C:1033:CLA:H171	1.10	1.06
22:D:1008:CLA:H143	22:D:1008:CLA:C18	1.86	1.06
28:D:1062:MGE:H1G1	11:L:19:LEU:HD21	1.37	1.06
1:a:5258:LEU:HD12	4:d:5128:ARG:HH21	1.14	1.06
2:b:5005:TRP:CZ2	28:l:6061:MGE:H2A2	1.90	1.06
22:b:6012:CLA:HBB1	22:b:6015:CLA:CBB	1.85	1.06
25:b:6047:BCR:C40	25:b:6047:BCR:C37	2.30	1.06
22:k:6034:CLA:C4	22:k:6034:CLA:CGA	2.33	1.06
3:C:49:LEU:HD22	3:C:52:ALA:N	1.71	1.05
25:a:6044:BCR:C40	25:a:6044:BCR:C37	2.30	1.05
22:b:6009:CLA:HAA1	22:b:6009:CLA:O2D	1.55	1.05
22:d:6008:CLA:C14	22:d:6008:CLA:C19	2.30	1.05
2:B:362:PHE:HE1	27:D:1068:IOD:I	2.09	1.05
3:C:49:LEU:CD2	3:C:52:ALA:HB2	1.86	1.05
3:C:50:LEU:HD21	3:C:54:VAL:CG2	1.86	1.05
22:D:1008:CLA:CMA	22:D:1008:CLA:CBA	2.30	1.05
22:b:6010:CLA:H12	22:b:6010:CLA:HBD	1.35	1.05
3:c:5050:LEU:HD21	3:c:5054:VAL:CG2	1.86	1.05
3:c:5275:SER:HB3	22:c:6033:CLA:HED1	1.34	1.05
22:d:6005:CLA:H91	22:d:6005:CLA:C12	1.83	1.05
2:B:5:TRP:CZ2	28:L:1061:MGE:H2A2	1.90	1.05
25:B:1047:BCR:C39	25:B:1047:BCR:C37	2.30	1.05
29:C:1056:DGD:C6D	29:C:1056:DGD:HE3	1.84	1.05
22:c:6025:CLA:CMB	22:c:6025:CLA:C4	2.34	1.05
25:B:1048:BCR:C39	25:B:1048:BCR:C37	2.30	1.05
3:C:42:LEU:HD11	3:C:49:LEU:CD1	1.86	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:343:ARG:HH12	3:C:348:GLU:CG	1.68	1.05
22:C:1025:CLA:CMB	22:C:1025:CLA:C4	2.34	1.05
4:D:246:MET:HE3	4:D:264:LYS:HG2	1.39	1.05
22:D:1005:CLA:H122	22:D:1005:CLA:H91	1.10	1.05
16:V:103:LYS:HD2	16:V:121:LEU:HD12	1.37	1.05
3:c:5343:ARG:HH12	3:c:5348:GLU:CG	1.68	1.05
25:B:1047:BCR:H331	25:B:1047:BCR:HC8	1.37	1.05
22:D:1005:CLA:H91	22:D:1005:CLA:C12	1.83	1.05
16:V:103:LYS:HD2	16:V:121:LEU:CD1	1.87	1.05
25:t:1046:BCR:HC8	25:t:1046:BCR:H331	1.09	1.05
22:b:6011:CLA:CGA	22:b:6011:CLA:C3A	2.32	1.04
22:b:6012:CLA:C2D	22:b:6020:CLA:C20	2.33	1.04
3:c:5049:LEU:HD22	3:c:5052:ALA:N	1.71	1.04
29:c:6057:DGD:HAF2	28:d:6059:MGE:H222	1.08	1.04
23:A:1038:PHO:H202	22:D:1005:CLA:HMB1	1.33	1.04
25:B:1047:BCR:H24C	25:t:1046:BCR:H353	1.37	1.04
25:H:1049:BCR:H392	25:H:1049:BCR:C23	1.76	1.04
10:K:39:VAL:CG2	18:Y:36:ILE:HD11	1.86	1.04
3:c:5417:VAL:HG12	16:v:5068:VAL:HB	1.35	1.04
22:d:6008:CLA:C14	22:d:6008:CLA:C18	2.36	1.04
5:e:5008:ARG:HE	6:f:5013:TYR:HB2	1.18	1.04
2:B:4:PRO:HG2	2:B:7:ARG:HG3	1.38	1.04
22:B:1009:CLA:H102	22:B:1009:CLA:H142	1.39	1.04
25:B:1047:BCR:HC8	25:B:1047:BCR:C33	1.82	1.04
22:D:1008:CLA:C14	22:D:1008:CLA:C18	2.36	1.04
4:d:5057:SER:HB2	4:d:5079:SER:HB3	1.37	1.04
23:D:1039:PHO:CMA	22:D:1004:CLA:H143	1.87	1.04
14:T:18:PHE:HA	25:T:6046:BCR:H332	1.36	1.04
28:d:6062:MGE:O1B	28:d:6062:MGE:H3G2	1.55	1.04
22:B:1010:CLA:H162	22:B:1010:CLA:H111	1.34	1.04
24:a:6043:PQ9:H451	28:d:6059:MGE:H101	1.08	1.04
22:b:6022:CLA:C9	22:b:6022:CLA:C12	2.32	1.04
23:d:6039:PHO:CMA	22:d:6004:CLA:H143	1.87	1.04
3:C:49:LEU:HD21	3:C:52:ALA:HB2	1.37	1.03
3:C:275:SER:HB3	22:C:1033:CLA:HED1	1.34	1.03
22:C:1030:CLA:H172	22:C:1030:CLA:H121	1.10	1.03
4:D:57:SER:HB2	4:D:79:SER:HB3	1.37	1.03
24:a:6043:PQ9:H451	28:d:6059:MGE:CAA	1.86	1.03
22:d:6008:CLA:H143	22:d:6008:CLA:C18	1.86	1.03
16:v:5098:LEU:HD22	16:v:5098:LEU:H	1.20	1.03
22:A:1006:CLA:HHC	22:A:1006:CLA:HBB1	1.38	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1015:CLA:CBC	25:B:1045:BCR:H342	1.88	1.03
29:C:1057:DGD:HBF2	29:C:1057:DGD:HBG2	1.35	1.03
22:K:1034:CLA:H102	22:K:1034:CLA:H143	1.40	1.03
25:T:6048:BCR:C39	25:T:6048:BCR:C37	2.30	1.03
2:b:5004:PRO:HG2	2:b:5007:ARG:HG3	1.38	1.03
22:k:6034:CLA:H102	22:k:6034:CLA:H143	1.40	1.03
22:A:1003:CLA:H42	23:A:1038:PHO:C1B	1.88	1.03
22:B:1021:CLA:C10	22:B:1021:CLA:C14	2.34	1.03
3:C:49:LEU:HD12	3:C:49:LEU:H	1.23	1.03
22:b:6021:CLA:C2A	22:b:6021:CLA:CED	2.30	1.03
22:d:6008:CLA:HBA1	22:d:6008:CLA:HMA2	1.06	1.03
7:h:5013:PRO:HG2	7:h:5014:LEU:HD12	1.39	1.03
22:B:1015:CLA:HAC2	25:t:1046:BCR:C28	1.89	1.03
31:F:1040:HEM:HBA2	31:F:1040:HEM:HMA1	1.05	1.03
2:b:5174:LEU:H	2:b:5174:LEU:HD13	1.21	1.03
22:b:6009:CLA:H142	22:b:6009:CLA:C10	1.89	1.03
22:c:6027:CLA:H171	22:c:6027:CLA:H122	1.10	1.03
2:B:174:LEU:HD13	2:B:174:LEU:H	1.21	1.03
3:c:5049:LEU:HB3	3:c:5133:ALA:HA	1.40	1.03
3:c:5050:LEU:C	3:c:5050:LEU:CD2	2.30	1.03
25:c:6054:BCR:H403	25:c:6054:BCR:C23	1.75	1.03
2:B:105:GLY:CA	25:B:1047:BCR:H401	1.88	1.02
22:B:1013:CLA:H122	22:B:1018:CLA:H42	1.38	1.02
22:B:1021:CLA:OBD	22:B:1022:CLA:HHC	1.59	1.02
22:D:1005:CLA:C12	22:D:1005:CLA:C9	2.36	1.02
22:D:1008:CLA:HBA1	22:D:1008:CLA:HMA2	1.06	1.02
22:b:6011:CLA:O1D	22:b:6013:CLA:H11	1.58	1.02
22:b:6022:CLA:H62	22:b:6022:CLA:H142	1.06	1.02
4:d:5091:LEU:HA	22:d:6008:CLA:HED1	1.41	1.02
22:d:6005:CLA:C12	22:d:6005:CLA:C9	2.36	1.02
22:B:1019:CLA:H93	28:L:1061:MGE:H9A2	1.41	1.02
25:T:6046:BCR:C28	22:b:6015:CLA:HAC2	1.89	1.02
22:a:6007:CLA:C4	22:c:6029:CLA:H191	1.89	1.02
2:b:5105:GLY:CA	25:b:6047:BCR:H401	1.88	1.02
2:b:5456:ALA:HB1	29:b:6058:DGD:HBV1	1.41	1.02
22:b:6009:CLA:HHC	22:b:6009:CLA:HBB1	1.35	1.02
22:b:6015:CLA:CBC	25:b:6045:BCR:H342	1.88	1.02
22:b:6023:CLA:HED2	22:b:6024:CLA:HBB1	1.03	1.02
22:c:6030:CLA:C12	22:c:6030:CLA:C17	2.30	1.02
22:d:6005:CLA:H122	22:d:6005:CLA:C9	1.90	1.02
28:d:6062:MGE:H1G1	11:l:5019:LEU:HD21	1.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k:5024:VAL:HG21	18:y:5025:ILE:HG22	1.41	1.02
20:z:5055:GLY:HA2	25:z:6053:BCR:C31	1.88	1.02
22:A:1007:CLA:C4	22:C:1029:CLA:H191	1.89	1.02
22:B:1014:CLA:H41	22:B:1014:CLA:H72	1.03	1.02
3:C:343:ARG:NH1	3:C:348:GLU:CG	2.21	1.02
20:Z:55:GLY:HA2	25:Z:1053:BCR:C31	1.88	1.02
22:c:6029:CLA:H42	22:c:6029:CLA:NC	1.74	1.02
29:c:6057:DGD:HBF2	29:c:6057:DGD:HBG2	1.35	1.02
26:A:1063:LHG:H161	26:A:1063:LHG:H122	1.42	1.02
2:B:7:ARG:HG2	2:B:7:ARG:HH11	1.20	1.02
3:C:265:ILE:HD11	3:C:452:ALA:HB2	1.05	1.02
22:C:1033:CLA:HMA2	22:K:1034:CLA:HAC1	1.42	1.02
25:T:6046:BCR:H353	25:b:6047:BCR:H24C	1.37	1.02
22:a:6003:CLA:H42	23:a:6038:PHO:C1B	1.88	1.02
25:b:6047:BCR:HC8	25:b:6047:BCR:H331	1.37	1.02
3:c:5264:PHE:N	3:c:5264:PHE:HD2	1.57	1.02
22:B:1011:CLA:O1D	22:B:1013:CLA:H11	1.58	1.02
25:B:1047:BCR:C40	25:B:1047:BCR:C37	2.30	1.02
4:D:37:LEU:HD22	4:D:128:ARG:HD3	1.41	1.02
16:V:98:LEU:HD22	16:V:98:LEU:H	1.20	1.02
1:a:5279:ARG:HH21	23:a:6038:PHO:HMC2	1.19	1.02
2:b:5326:ARG:HH11	4:d:5297:ASP:HA	1.24	1.02
4:d:5246:MET:HE3	4:d:5264:LYS:HG2	1.39	1.02
22:d:6008:CLA:H193	22:d:6008:CLA:H143	1.33	1.02
25:k:6052:BCR:C37	25:k:6052:BCR:H383	1.90	1.02
25:A:1044:BCR:C39	25:A:1044:BCR:C37	2.30	1.01
25:A:1044:BCR:C40	25:A:1044:BCR:C37	2.30	1.01
2:B:105:GLY:HA3	25:B:1047:BCR:H401	1.39	1.01
3:C:46:SER:HB2	3:C:141:GLU:CB	1.90	1.01
3:c:5032:GLY:HA3	3:c:5041:ARG:HD3	1.37	1.01
3:c:5046:SER:HB2	3:c:5141:GLU:CB	1.90	1.01
4:d:5250:ASN:HB2	4:d:5260:ALA:HB1	1.40	1.01
22:B:1023:CLA:HED2	22:B:1024:CLA:HBB1	1.03	1.01
4:D:250:ASN:HB2	4:D:260:ALA:HB1	1.40	1.01
22:a:6006:CLA:HBB1	22:a:6006:CLA:HHC	1.38	1.01
2:b:5105:GLY:HA3	25:b:6047:BCR:H401	1.39	1.01
22:b:6016:CLA:C5	22:h:6017:CLA:H112	1.91	1.01
22:b:6018:CLA:H101	22:b:6023:CLA:HAA1	1.36	1.01
22:B:1019:CLA:H93	28:L:1061:MGE:C9A	1.90	1.01
3:C:264:PHE:N	3:C:264:PHE:HD2	1.57	1.01
22:C:1029:CLA:H42	22:C:1029:CLA:NC	1.74	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:267:LEU:HD22	4:D:268:HIS:ND1	1.74	1.01
26:a:6063:LHG:H292	22:c:6032:CLA:H52	1.40	1.01
2:b:5007:ARG:HG2	2:b:5007:ARG:HH11	1.20	1.01
22:b:6009:CLA:H142	22:b:6009:CLA:H102	1.39	1.01
22:b:6013:CLA:H122	22:b:6018:CLA:H42	1.38	1.01
22:b:6014:CLA:H41	22:b:6014:CLA:H72	1.03	1.01
22:c:6027:CLA:C12	22:c:6027:CLA:C17	2.31	1.01
22:c:6033:CLA:HMA2	22:k:6034:CLA:HAC1	1.42	1.01
2:B:326:ARG:HH11	4:D:297:ASP:HA	1.24	1.01
3:C:229:ASN:HD22	3:C:229:ASN:H	1.03	1.01
10:K:24:VAL:HG21	18:Y:25:ILE:HG22	1.41	1.01
22:b:6019:CLA:H93	28:l:6061:MGE:C9A	1.90	1.01
3:c:5171:GLY:HA2	3:c:5174:LEU:HB2	1.35	1.01
4:d:5261:PHE:CZ	4:d:5267:LEU:HA	1.96	1.01
31:f:6040:HEM:HBA2	31:f:6040:HEM:HMA1	1.05	1.01
4:D:261:PHE:CZ	4:D:267:LEU:HA	1.96	1.01
22:D:1005:CLA:H122	22:D:1005:CLA:C9	1.90	1.01
25:a:6044:BCR:C39	25:a:6044:BCR:C37	2.30	1.01
2:b:5075:TRP:NE1	2:b:5094:GLU:HB2	1.76	1.01
3:c:5265:ILE:HD11	3:c:5452:ALA:HB2	1.05	1.01
22:c:6027:CLA:H152	25:z:6053:BCR:H332	1.42	1.01
22:B:1021:CLA:HED2	22:B:1021:CLA:CHA	1.91	1.00
1:a:5212:CYS:HB2	4:d:5211:CYS:HB2	1.43	1.00
22:d:6008:CLA:CMA	22:d:6008:CLA:CBA	2.30	1.00
1:A:60:ILE:HD11	1:A:83:VAL:HB	1.41	1.00
26:A:1063:LHG:H292	22:C:1032:CLA:H52	1.41	1.00
22:B:1009:CLA:HMB3	25:H:1049:BCR:H271	1.01	1.00
7:H:13:PRO:HG2	7:H:14:LEU:HD12	1.39	1.00
3:c:5049:LEU:H	3:c:5049:LEU:HD12	1.22	1.00
3:c:5265:ILE:HD11	3:c:5452:ALA:CB	1.91	1.00
2:B:456:ALA:HB1	29:B:1058:DGD:HBV1	1.41	1.00
22:B:1022:CLA:C9	22:B:1022:CLA:C12	2.32	1.00
3:C:167:VAL:HG12	3:C:168:LEU:HD12	1.44	1.00
4:D:265:ARG:HH11	4:D:265:ARG:HG3	1.23	1.00
2:b:5149:LEU:CG	22:b:6011:CLA:HBC1	1.91	1.00
2:b:5324:LEU:HA	4:d:5293:LEU:HD22	1.43	1.00
22:C:1027:CLA:C17	22:C:1027:CLA:H121	1.91	1.00
22:b:6021:CLA:HED2	22:b:6021:CLA:CHA	1.91	1.00
12:m:5029:THR:O	12:m:5032:GLN:HG2	1.61	1.00
1:A:54:ALA:HB2	1:A:72:LEU:HD12	1.42	1.00
22:B:1016:CLA:C5	22:H:1017:CLA:H112	1.91	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:K:39:VAL:HG23	18:Y:36:ILE:HD11	1.00	1.00
22:b:6010:CLA:H162	22:b:6010:CLA:H112	1.32	1.00
3:C:265:ILE:HD11	3:C:452:ALA:CB	1.91	1.00
25:D:1050:BCR:HC8	25:D:1050:BCR:C33	1.91	1.00
12:M:9:ILE:HD12	12:m:5009:ILE:HD11	1.44	1.00
26:a:6063:LHG:H161	26:a:6063:LHG:H122	1.42	1.00
3:c:5350:ILE:HG21	3:c:5359:TRP:HB2	1.43	1.00
23:d:6039:PHO:CMA	23:d:6039:PHO:CBA	2.30	1.00
22:B:1010:CLA:HBD	22:B:1010:CLA:C1	1.92	1.00
22:B:1011:CLA:H193	22:H:1017:CLA:H101	1.00	1.00
22:B:1015:CLA:CAD	22:B:1015:CLA:CED	2.40	1.00
25:B:1047:BCR:C24	25:t:1046:BCR:H353	1.92	1.00
3:C:166:ILE:HD12	3:C:249:ILE:HD12	1.44	1.00
22:C:1031:CLA:HMA2	22:C:1031:CLA:O2A	1.62	1.00
4:D:91:LEU:HA	22:D:1008:CLA:CED	1.92	1.00
16:V:45:ILE:H	16:V:45:ILE:HD12	1.22	0.99
1:a:5060:ILE:HD11	1:a:5083:VAL:HB	1.41	0.99
16:V:118:HIS:HD2	16:V:119:PRO:HD2	1.23	0.99
22:b:6023:CLA:CED	22:b:6024:CLA:CBB	2.40	0.99
3:c:5167:VAL:HG12	3:c:5168:LEU:HD12	1.44	0.99
3:c:5417:VAL:HG11	16:v:5068:VAL:HG11	1.40	0.99
2:B:59:GLY:HA3	2:B:329:PRO:HB3	1.45	0.99
3:C:49:LEU:HB3	3:C:133:ALA:HA	1.40	0.99
3:c:5166:ILE:HD12	3:c:5249:ILE:HD12	1.44	0.99
16:v:5045:ILE:HD12	16:v:5045:ILE:H	1.23	0.99
1:A:223:LEU:O	1:A:224:ILE:HB	1.60	0.99
22:A:1003:CLA:HED2	22:A:1003:CLA:HAA2	1.01	0.99
22:C:1025:CLA:CHB	22:C:1025:CLA:C1	2.41	0.99
25:C:1052:BCR:C37	25:C:1052:BCR:H383	1.90	0.99
25:T:6046:BCR:H353	25:b:6047:BCR:C24	1.92	0.99
22:c:6025:CLA:CHB	22:c:6025:CLA:C1	2.41	0.99
22:c:6030:CLA:HBB2	22:c:6031:CLA:HED1	1.45	0.99
2:B:149:LEU:CG	22:B:1011:CLA:HBC1	1.92	0.99
12:M:29:THR:O	12:M:32:GLN:HG2	1.61	0.99
22:b:6012:CLA:C3B	22:b:6015:CLA:HBB2	1.91	0.99
22:b:6012:CLA:CGA	22:b:6020:CLA:H141	1.91	0.99
4:d:5037:LEU:HD22	4:d:5128:ARG:HD3	1.41	0.99
22:B:1012:CLA:CGA	22:B:1020:CLA:H141	1.91	0.99
22:C:1033:CLA:CMA	22:K:1034:CLA:C3C	2.41	0.99
22:d:6005:CLA:HBC2	22:d:6004:CLA:HBB2	1.42	0.99
16:v:5118:HIS:HD2	16:v:5119:PRO:HD2	1.23	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:278:SER:HB3	2:B:281:GLN:HG2	1.41	0.99
29:C:1056:DGD:HE5	29:C:1056:DGD:HD62	0.99	0.99
3:c:5343:ARG:NH1	3:c:5348:GLU:CG	2.21	0.99
28:d:6059:MGE:H211	28:d:6059:MGE:CFB	1.92	0.99
2:B:341:LYS:HB3	2:B:406:LEU:HD22	1.45	0.99
22:B:1012:CLA:C3B	22:B:1015:CLA:HBB2	1.91	0.99
4:D:91:LEU:HA	22:D:1008:CLA:HED1	1.41	0.99
22:b:6010:CLA:HBD	22:b:6010:CLA:C1	1.92	0.99
2:B:75:TRP:NE1	2:B:94:GLU:HB2	1.76	0.99
22:B:1009:CLA:H142	22:B:1009:CLA:C10	1.89	0.99
22:B:1015:CLA:H41	22:B:1015:CLA:H72	1.41	0.99
16:V:34:LEU:HD22	16:V:47:LEU:HB3	1.44	0.99
22:b:6009:CLA:HMB3	25:h:6049:BCR:H271	1.01	0.99
3:c:5229:ASN:HD22	3:c:5229:ASN:H	1.03	0.99
22:c:6033:CLA:CMA	22:k:6034:CLA:C3C	2.41	0.99
4:d:5265:ARG:HG3	4:d:5265:ARG:HH11	1.23	0.99
14:t:5018:PHE:HA	25:t:1046:BCR:H332	1.45	0.99
23:D:1039:PHO:CMA	22:D:1004:CLA:C14	2.41	0.98
2:b:5065:PHE:HE2	22:b:6012:CLA:HMA2	1.23	0.98
22:b:6015:CLA:CAD	22:b:6015:CLA:CED	2.40	0.98
22:c:6030:CLA:C3D	22:c:6030:CLA:HED2	1.93	0.98
25:d:6050:BCR:HC8	25:d:6050:BCR:H331	1.43	0.98
16:v:5038:LEU:HA	16:v:5095:ILE:HG22	1.45	0.98
1:A:269:ARG:HD3	4:D:222:LEU:HD11	1.45	0.98
2:B:324:LEU:HA	4:D:293:LEU:HD22	1.43	0.98
3:c:5042:LEU:HD21	3:c:5048:LYS:HG2	1.45	0.98
2:b:5475:PHE:CD1	4:d:5140:PRO:CG	2.45	0.98
22:b:6021:CLA:H142	22:b:6021:CLA:H102	0.99	0.98
22:C:1025:CLA:H42	22:C:1025:CLA:C2B	1.93	0.98
22:c:6025:CLA:H151	22:c:6031:CLA:H92	1.34	0.98
22:c:6033:CLA:H171	22:c:6033:CLA:C14	1.92	0.98
28:l:6061:MGE:H1G2	28:l:6061:MGE:O1B	1.63	0.98
1:A:156:ALA:HA	1:A:160:ILE:HD12	1.43	0.98
23:A:1038:PHO:HMB3	22:D:1005:CLA:H52	1.46	0.98
3:C:417:VAL:HG11	16:V:68:VAL:HG11	1.40	0.98
22:C:1026:CLA:HBA1	22:C:1027:CLA:HAC1	0.98	0.98
1:a:5156:ALA:HA	1:a:5160:ILE:HD12	1.43	0.98
22:b:6019:CLA:H93	28:l:6061:MGE:H9A2	1.41	0.98
3:c:5091:HIS:CD2	22:c:6026:CLA:HED1	1.97	0.98
22:c:6031:CLA:HMA2	22:c:6031:CLA:O2A	1.62	0.98
14:t:5004:ILE:HD13	14:t:5005:THR:N	1.78	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:91:HIS:CD2	22:C:1026:CLA:HED1	1.97	0.98
14:T:4:ILE:HD13	14:T:5:THR:N	1.78	0.98
22:b:6011:CLA:H193	22:h:6017:CLA:H101	1.00	0.98
22:c:6029:CLA:C4C	22:c:6029:CLA:C4	2.42	0.98
1:A:279:ARG:CD	4:D:208:ALA:HB1	1.93	0.98
22:B:1010:CLA:H162	22:B:1010:CLA:H112	1.31	0.98
22:B:1010:CLA:C11	22:B:1010:CLA:C16	2.30	0.98
22:B:1023:CLA:CED	22:B:1024:CLA:CBB	2.40	0.98
22:C:1030:CLA:HED2	22:C:1030:CLA:C3D	1.93	0.98
1:a:5159:LEU:HD21	29:c:6055:DGD:HA71	1.45	0.98
2:b:5278:SER:HB3	2:b:5281:GLN:HG2	1.41	0.98
22:b:6021:CLA:OBD	22:b:6022:CLA:HHC	1.59	0.98
2:B:475:PHE:CD1	4:D:140:PRO:CG	2.45	0.98
3:C:348:GLU:HB3	13:O:42:ALA:HB1	1.43	0.98
28:D:1059:MGE:H211	28:D:1059:MGE:CFB	1.92	0.98
22:c:6033:CLA:HED3	22:c:6033:CLA:OBD	1.62	0.98
10:k:5032:PHE:CD1	25:k:6052:BCR:H383	1.98	0.98
22:C:1025:CLA:H151	22:C:1031:CLA:H92	1.34	0.98
22:C:1027:CLA:H152	25:Z:1053:BCR:H332	1.42	0.98
1:a:5223:LEU:O	1:a:5224:ILE:HB	1.60	0.98
2:B:105:GLY:CA	25:B:1047:BCR:C40	2.42	0.98
1:a:5228:THR:HG22	1:a:5229:GLU:H	1.27	0.98
3:c:5271:TYR:CE1	22:c:6031:CLA:HAC1	1.99	0.98
22:D:1008:CLA:H141	22:D:1008:CLA:H172	1.46	0.97
2:b:5105:GLY:CA	25:b:6047:BCR:C40	2.42	0.97
22:b:6010:CLA:C11	22:b:6010:CLA:C16	2.30	0.97
22:b:6012:CLA:HMB1	22:b:6015:CLA:HBB1	1.46	0.97
24:A:1043:PQ9:C45	28:D:1059:MGE:H101	1.94	0.97
22:C:1033:CLA:OBD	22:C:1033:CLA:HED3	1.62	0.97
1:a:5054:ALA:HB2	1:a:5072:LEU:HD12	1.42	0.97
22:A:1003:CLA:HED2	22:A:1003:CLA:H2A	1.41	0.97
23:d:6039:PHO:CMA	22:d:6004:CLA:C14	2.41	0.97
24:d:6042:PQ9:H242	28:l:6061:MGE:H212	1.46	0.97
25:z:6053:BCR:H23C	25:z:6053:BCR:C38	1.90	0.97
2:B:220:ARG:HD3	2:B:221:PRO:HD2	1.43	0.97
22:D:1005:CLA:HBC2	22:D:1004:CLA:HBB2	1.42	0.97
4:d:5091:LEU:HA	22:d:6008:CLA:CED	1.92	0.97
22:C:1029:CLA:C4C	22:C:1029:CLA:C4	2.42	0.97
22:B:1014:CLA:HBA1	22:B:1014:CLA:CHA	1.95	0.97
22:B:1016:CLA:H52	22:H:1017:CLA:H91	0.97	0.97
3:c:5348:GLU:HB3	13:o:5042:ALA:HB1	1.43	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:5034:LEU:HD22	16:v:5047:LEU:HB3	1.44	0.97
22:B:1021:CLA:H142	22:B:1021:CLA:H102	0.99	0.97
3:C:271:TYR:CE1	22:C:1031:CLA:HAC1	1.99	0.97
23:D:1039:PHO:CBA	23:D:1039:PHO:HMA1	1.94	0.97
22:D:1008:CLA:H141	22:D:1008:CLA:C17	1.95	0.97
2:b:5059:GLY:HA3	2:b:5329:PRO:HB3	1.45	0.97
22:b:6015:CLA:H41	22:b:6015:CLA:H72	1.41	0.97
22:c:6027:CLA:C17	22:c:6027:CLA:H121	1.91	0.97
22:c:6033:CLA:HED3	22:c:6033:CLA:CAD	1.95	0.97
25:d:6050:BCR:HC8	25:d:6050:BCR:C33	1.91	0.97
1:A:159:LEU:HD21	29:C:1055:DGD:HA71	1.45	0.97
1:A:228:THR:HG22	1:A:229:GLU:H	1.27	0.97
3:C:50:LEU:C	3:C:50:LEU:CD2	2.30	0.97
7:H:6:TRP:CD1	7:H:10:ILE:HD11	1.99	0.97
2:b:5220:ARG:HD3	2:b:5221:PRO:HD2	1.43	0.97
22:b:6020:CLA:C10	22:b:6020:CLA:C16	2.43	0.97
22:B:1011:CLA:CAD	22:B:1013:CLA:H12	1.95	0.97
22:B:1012:CLA:HMB1	22:B:1015:CLA:HBB1	1.46	0.97
22:C:1032:CLA:H151	10:K:33:PHE:HZ	0.81	0.97
22:C:1033:CLA:HED3	22:C:1033:CLA:CAD	1.94	0.97
25:b:6047:BCR:C39	25:b:6047:BCR:C37	2.30	0.97
22:c:6026:CLA:HBA1	22:c:6027:CLA:HAC1	0.98	0.97
4:d:5160:TYR:OH	27:d:6068:IOD:I	2.51	0.97
7:h:5006:TRP:CD1	7:h:5010:ILE:HD11	1.99	0.97
25:k:6051:BCR:H403	25:k:6051:BCR:C23	1.94	0.97
25:B:1048:BCR:C40	25:B:1048:BCR:C37	2.30	0.97
22:C:1032:CLA:CAB	22:K:1034:CLA:HMC3	1.95	0.97
22:C:1033:CLA:H171	22:C:1033:CLA:C14	1.92	0.97
22:b:6011:CLA:CAD	22:b:6013:CLA:H12	1.95	0.97
23:d:6039:PHO:CBA	23:d:6039:PHO:HMA1	1.94	0.97
23:A:1038:PHO:H93	22:D:1005:CLA:H18	1.46	0.96
22:B:1009:CLA:C1A	22:B:1009:CLA:CGA	2.43	0.96
22:B:1020:CLA:C10	22:B:1020:CLA:C16	2.43	0.96
22:B:1022:CLA:H91	22:B:1022:CLA:C12	1.92	0.96
25:D:1050:BCR:H372	28:D:1059:MGE:C3A	1.95	0.96
1:a:5269:ARG:HD3	4:d:5222:LEU:HD11	1.45	0.96
22:b:6011:CLA:HED2	22:b:6012:CLA:HED3	1.46	0.96
22:c:6032:CLA:CAB	22:k:6034:CLA:HMC3	1.95	0.96
29:c:6056:DGD:HE5	29:c:6056:DGD:HD62	0.99	0.96
22:B:1023:CLA:CED	22:B:1024:CLA:HBB1	1.94	0.96
1:a:5196:PRO:HB2	29:c:6057:DGD:HA81	1.47	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:a:6003:CLA:HED2	22:a:6003:CLA:H2A	1.41	0.96
22:b:6009:CLA:CGA	22:b:6009:CLA:C1A	2.43	0.96
22:b:6014:CLA:C7	22:b:6014:CLA:C4	2.36	0.96
22:C:1030:CLA:HBB2	22:C:1031:CLA:HED1	1.45	0.96
22:C:1033:CLA:H143	22:C:1033:CLA:C17	1.95	0.96
25:D:1050:BCR:HC8	25:D:1050:BCR:H331	1.43	0.96
25:d:6050:BCR:H372	28:d:6059:MGE:C3A	1.95	0.96
24:a:6043:PQ9:C45	28:d:6059:MGE:H101	1.94	0.96
22:b:6022:CLA:H143	22:b:6022:CLA:C8	1.95	0.96
22:d:6008:CLA:H141	22:d:6008:CLA:H172	1.46	0.96
2:B:174:LEU:HD13	2:B:174:LEU:N	1.79	0.96
3:c:5049:LEU:CD2	22:c:6035:CLA:HMA3	1.94	0.96
22:d:6008:CLA:H141	22:d:6008:CLA:C17	1.95	0.96
1:A:212:CYS:HB2	4:D:211:CYS:HB2	1.43	0.96
1:a:5339:PHE:HB3	1:a:5340:PRO:HD2	1.47	0.96
2:B:103:LEU:HB2	22:B:1014:CLA:H92	1.45	0.96
22:C:1029:CLA:C5	22:C:1029:CLA:CHC	2.43	0.96
28:L:1061:MGE:H1G2	28:L:1061:MGE:O1B	1.63	0.96
16:V:38:LEU:HA	16:V:95:ILE:HG22	1.45	0.96
22:b:6011:CLA:H2	22:b:6013:CLA:C9	1.95	0.96
3:c:5042:LEU:HD11	3:c:5049:LEU:CD1	1.94	0.96
22:c:6028:CLA:H2	29:c:6056:DGD:O1A	1.66	0.96
22:c:6033:CLA:H143	22:c:6033:CLA:C17	1.95	0.96
22:C:1029:CLA:HMA2	22:C:1029:CLA:HBA2	1.48	0.96
24:D:1042:PQ9:C24	28:L:1061:MGE:H263	1.95	0.96
1:a:5205:VAL:HB	1:a:5279:ARG:NH1	1.81	0.96
22:a:6003:CLA:HED2	22:a:6003:CLA:HAA2	1.01	0.96
22:a:6003:CLA:H41	22:a:6003:CLA:C7	1.91	0.96
22:b:6011:CLA:H2	22:b:6013:CLA:H92	1.46	0.96
22:b:6012:CLA:HBB1	22:b:6015:CLA:HBB2	1.46	0.96
3:c:5348:GLU:HB3	13:o:5042:ALA:CB	1.95	0.96
22:c:6029:CLA:H52	22:c:6029:CLA:CHC	1.96	0.96
22:B:1022:CLA:C8	22:B:1022:CLA:H143	1.95	0.96
3:C:49:LEU:CD2	3:C:52:ALA:N	2.28	0.96
3:C:350:ILE:HG21	3:C:359:TRP:HB2	1.43	0.96
22:C:1029:CLA:CHC	22:C:1029:CLA:H52	1.96	0.96
25:K:1051:BCR:H403	25:K:1051:BCR:C23	1.94	0.96
12:M:9:ILE:HD11	12:m:5009:ILE:HD12	1.47	0.96
25:Z:1053:BCR:H23C	25:Z:1053:BCR:C38	1.91	0.96
23:a:6038:PHO:HMB3	22:d:6005:CLA:H52	1.46	0.96
24:d:6042:PQ9:C24	28:l:6061:MGE:H263	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1022:CLA:H143	22:B:1022:CLA:C7	1.96	0.95
2:b:5169:SER:HB3	2:b:5176:GLY:CA	1.96	0.95
5:e:5008:ARG:NE	6:f:5013:TYR:HB2	1.82	0.95
22:B:1011:CLA:H2	22:B:1013:CLA:C9	1.95	0.95
22:B:1023:CLA:H91	22:B:1024:CLA:H151	1.47	0.95
29:C:1057:DGD:CEA	28:D:1059:MGE:H222	1.96	0.95
23:a:6038:PHO:H93	22:d:6005:CLA:H18	1.46	0.95
4:d:5188:PHE:CE2	4:d:5326:ARG:HG2	2.01	0.95
22:B:1011:CLA:HED2	22:B:1012:CLA:HED1	0.96	0.95
22:b:6016:CLA:HBC3	22:b:6016:CLA:HHD	1.49	0.95
22:b:6023:CLA:CED	22:b:6024:CLA:HBB1	1.94	0.95
22:c:6026:CLA:H122	22:c:6026:CLA:C7	1.95	0.95
22:c:6029:CLA:CHC	22:c:6029:CLA:C5	2.43	0.95
22:c:6035:CLA:HBB2	22:k:6034:CLA:HMA2	1.48	0.95
22:B:1020:CLA:H161	22:B:1020:CLA:H101	1.47	0.95
3:C:155:ASN:HA	3:C:158:THR:HG22	1.49	0.95
25:Z:1053:BCR:H383	25:Z:1053:BCR:C23	1.97	0.95
2:b:5008:VAL:O	2:b:5011:VAL:HG23	1.67	0.95
2:b:5103:LEU:HB2	22:b:6014:CLA:H92	1.44	0.95
22:b:6015:CLA:C7	22:b:6015:CLA:C4	2.41	0.95
22:b:6022:CLA:H143	22:b:6022:CLA:C10	1.97	0.95
22:c:6025:CLA:C12	25:c:6054:BCR:H351	1.96	0.95
29:c:6057:DGD:CEA	28:d:6059:MGE:H222	1.96	0.95
22:C:1025:CLA:C12	25:C:1054:BCR:H351	1.96	0.95
22:a:6006:CLA:H161	24:a:6043:PQ9:H443	1.48	0.95
28:b:6060:MGE:H8A2	11:l:5023:LEU:HD21	1.47	0.95
22:c:6030:CLA:H143	22:c:6030:CLA:H171	1.47	0.95
16:v:5148:GLU:HA	16:v:5151:ILE:HD11	1.48	0.95
22:A:1003:CLA:HHD	22:A:1003:CLA:HBC2	1.47	0.95
3:C:46:SER:OG	3:C:149:TYR:HB3	1.65	0.95
3:C:348:GLU:HB3	13:O:42:ALA:CB	1.95	0.95
22:C:1030:CLA:H143	22:C:1030:CLA:H171	1.48	0.95
29:C:1055:DGD:CIB	29:C:1055:DGD:HBF1	1.97	0.95
2:B:169:SER:HB3	2:B:176:GLY:CA	1.96	0.95
4:D:188:PHE:CE2	4:D:326:ARG:HG2	2.01	0.95
22:B:1021:CLA:HED3	22:B:1021:CLA:H2A	0.94	0.94
3:c:5046:SER:OG	3:c:5149:TYR:HB3	1.65	0.94
25:c:6054:BCR:C40	25:c:6054:BCR:C23	2.30	0.94
4:d:5148:ALA:HB3	4:d:5149:PRO:HD3	1.48	0.94
22:B:1011:CLA:H2	22:B:1013:CLA:H92	1.46	0.94
22:B:1018:CLA:H102	22:B:1023:CLA:CAA	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1022:CLA:H143	22:B:1022:CLA:C10	1.97	0.94
3:C:264:PHE:N	3:C:264:PHE:CD2	2.30	0.94
1:a:5205:VAL:CA	1:a:5279:ARG:NH1	2.28	0.94
2:b:5341:LYS:HB3	2:b:5406:LEU:HD22	1.45	0.94
22:b:6022:CLA:H143	22:b:6022:CLA:C7	1.96	0.94
22:B:1015:CLA:C7	22:B:1015:CLA:C4	2.41	0.94
22:C:1035:CLA:C2B	25:C:1052:BCR:H271	1.97	0.94
22:b:6011:CLA:H193	22:h:6017:CLA:C10	1.95	0.94
22:c:6025:CLA:H42	22:c:6025:CLA:C2B	1.93	0.94
25:h:6049:BCR:C39	25:h:6049:BCR:C23	2.30	0.94
10:k:5032:PHE:CZ	25:k:6052:BCR:H361	2.02	0.94
3:C:263:ALA:CB	3:C:264:PHE:CE2	2.51	0.94
13:O:80:GLU:O	13:O:82:PRO:HD3	1.68	0.94
22:b:6011:CLA:C3D	22:b:6013:CLA:H12	1.96	0.94
22:B:1011:CLA:HED2	22:B:1012:CLA:HED3	1.46	0.94
7:H:12:ARG:HH12	7:H:15:ASN:HB3	1.30	0.94
1:a:5187:GLN:HG3	1:a:5325:ASN:HD21	1.32	0.94
22:b:6014:CLA:CHA	22:b:6014:CLA:HBA1	1.95	0.94
22:b:6023:CLA:H91	22:b:6024:CLA:H151	1.47	0.94
9:j:5021:VAL:HG12	9:j:5022:ILE:HD12	1.48	0.94
22:B:1012:CLA:HBB1	22:B:1015:CLA:HBB2	1.46	0.94
5:E:8:ARG:NE	6:F:13:TYR:HB2	1.81	0.94
14:T:23:PHE:HZ	2:b:5112:CYS:SG	1.89	0.94
25:d:6050:BCR:H23C	25:d:6050:BCR:C38	1.90	0.94
7:h:5012:ARG:HH12	7:h:5015:ASN:HB3	1.30	0.94
22:A:1006:CLA:H161	24:A:1043:PQ9:H443	1.47	0.94
2:B:8:VAL:O	2:B:11:VAL:HG23	1.67	0.94
22:b:6020:CLA:H161	22:b:6020:CLA:H101	1.47	0.94
3:c:5224:ILE:HG23	25:c:6054:BCR:H381	1.47	0.94
22:c:6033:CLA:HHC	22:c:6033:CLA:HBB1	1.49	0.94
29:c:6056:DGD:HD61	29:c:6056:DGD:HE3	0.94	0.94
13:o:5080:GLU:O	13:o:5082:PRO:HD3	1.68	0.94
22:B:1018:CLA:H102	22:B:1023:CLA:HAA1	1.50	0.94
22:C:1026:CLA:H122	22:C:1026:CLA:C7	1.95	0.94
22:C:1029:CLA:NC	22:C:1029:CLA:C4	2.30	0.94
22:C:1029:CLA:H11	22:C:1029:CLA:C4D	1.98	0.94
22:D:1008:CLA:H193	22:D:1008:CLA:H143	1.33	0.94
25:D:1050:BCR:H23C	25:D:1050:BCR:C38	1.91	0.94
14:T:18:PHE:HA	25:T:6046:BCR:C33	1.96	0.94
25:T:6046:BCR:HC8	25:T:6046:BCR:C33	1.96	0.94
25:T:6048:BCR:H371	25:T:6048:BCR:H403	1.33	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:b:6016:CLA:H52	22:h:6017:CLA:H91	0.97	0.94
3:c:5179:ALA:HB1	3:c:5199:ILE:HD13	1.49	0.94
22:c:6029:CLA:HBA2	22:c:6029:CLA:HMA2	1.48	0.94
22:c:6031:CLA:HHD	22:c:6031:CLA:CBC	1.98	0.94
29:c:6055:DGD:HBF1	29:c:6055:DGD:CIB	1.97	0.94
4:D:261:PHE:H	24:D:1042:PQ9:H91	1.32	0.94
31:F:1040:HEM:HMA1	31:F:1040:HEM:CBA	1.97	0.94
22:b:6023:CLA:H13	22:b:6024:CLA:HMA1	1.50	0.94
3:c:5263:ALA:HB3	3:c:5264:PHE:CD2	2.03	0.94
22:c:6035:CLA:C2B	25:k:6052:BCR:H271	1.97	0.94
1:A:183:MET:HB3	22:A:1003:CLA:HBC3	1.48	0.94
26:A:1063:LHG:H321	22:K:1034:CLA:H151	1.50	0.94
3:C:333:GLY:H	3:C:338:GLY:HA2	1.33	0.94
10:K:33:PHE:O	10:K:33:PHE:HD2	1.51	0.94
22:b:6022:CLA:H92	22:b:6022:CLA:CBC	1.98	0.94
3:c:5155:ASN:HA	3:c:5158:THR:HG22	1.49	0.94
4:d:5261:PHE:H	24:d:6042:PQ9:H91	1.32	0.94
25:t:1046:BCR:HC8	25:t:1046:BCR:C33	1.96	0.94
3:C:117:VAL:HG11	22:C:1027:CLA:H42	1.50	0.93
3:C:179:ALA:HB1	3:C:199:ILE:HD13	1.49	0.93
3:C:263:ALA:HB3	3:C:264:PHE:CD2	2.03	0.93
22:a:6003:CLA:HBC2	22:a:6003:CLA:HHD	1.47	0.93
23:a:6038:PHO:C20	22:d:6005:CLA:C2B	2.46	0.93
22:b:6018:CLA:H102	22:b:6023:CLA:CAA	1.97	0.93
22:b:6018:CLA:H102	22:b:6023:CLA:HAA1	1.50	0.93
22:b:6021:CLA:HED3	22:b:6021:CLA:H2A	0.94	0.93
22:d:6005:CLA:HBC1	22:d:6004:CLA:HBB2	1.48	0.93
22:A:1003:CLA:H41	22:A:1003:CLA:C7	1.91	0.93
22:B:1011:CLA:C3D	22:B:1013:CLA:H12	1.96	0.93
3:C:224:ILE:HG23	25:C:1054:BCR:H381	1.47	0.93
22:C:1033:CLA:HBB1	22:C:1033:CLA:HHC	1.49	0.93
29:C:1056:DGD:HD61	29:C:1056:DGD:HE3	0.94	0.93
25:D:1050:BCR:C22	28:D:1059:MGE:H3A1	1.97	0.93
16:V:148:GLU:HA	16:V:151:ILE:HD11	1.48	0.93
3:c:5333:GLY:H	3:c:5338:GLY:HA2	1.33	0.93
25:d:6050:BCR:C22	28:d:6059:MGE:H3A1	1.98	0.93
22:B:1022:CLA:H92	22:B:1022:CLA:CBC	1.98	0.93
22:C:1025:CLA:H152	22:C:1031:CLA:H92	1.49	0.93
1:a:5183:MET:HB3	22:a:6003:CLA:HBC3	1.48	0.93
22:b:6015:CLA:CBC	25:b:6045:BCR:C34	2.45	0.93
25:z:6053:BCR:H383	25:z:6053:BCR:C23	1.97	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:187:GLN:HG3	1:A:325:ASN:HD21	1.32	0.93
22:B:1022:CLA:H93	22:B:1022:CLA:H142	0.95	0.93
22:C:1028:CLA:H2	29:C:1056:DGD:O1A	1.66	0.93
22:C:1029:CLA:CMD	22:C:1031:CLA:HAB	1.99	0.93
25:B:1047:BCR:H371	25:B:1047:BCR:H392	1.32	0.93
2:b:5311:PHE:HE2	2:b:5317:ASN:HD21	1.15	0.93
2:b:5370:LEU:HB2	2:b:5379:ALA:HB3	1.47	0.93
22:B:1016:CLA:H52	22:H:1017:CLA:H92	1.49	0.93
22:B:1022:CLA:H42	22:B:1022:CLA:O1A	1.68	0.93
23:D:1039:PHO:HMA3	22:D:1004:CLA:H102	1.50	0.93
15:U:68:THR:HG22	15:U:71:GLN:H	1.33	0.93
2:b:5174:LEU:HD13	2:b:5174:LEU:N	1.79	0.93
22:c:6029:CLA:CMD	22:c:6031:CLA:HAB	1.99	0.93
15:u:5068:THR:HG22	15:u:5071:GLN:H	1.33	0.93
4:D:87:HIS:CD2	4:D:162:LEU:HA	2.04	0.93
22:b:6011:CLA:HED2	22:b:6012:CLA:HED1	0.96	0.93
22:c:6029:CLA:H11	22:c:6029:CLA:C4D	1.98	0.93
29:C:1055:DGD:O2D	29:C:1055:DGD:HG31	1.67	0.93
1:a:5142:TRP:HB3	3:c:5443:TRP:CH2	2.03	0.93
22:b:6022:CLA:H93	22:b:6022:CLA:H142	0.95	0.93
3:c:5263:ALA:CB	3:c:5264:PHE:CE2	2.51	0.93
23:d:6039:PHO:HBA2	23:d:6039:PHO:HMA1	1.47	0.93
10:k:5032:PHE:CE1	25:k:6052:BCR:C21	2.50	0.93
22:B:1011:CLA:H193	22:H:1017:CLA:C10	1.95	0.93
22:B:1011:CLA:C1	22:B:1013:CLA:H93	1.99	0.93
28:B:1060:MGE:H8A2	11:L:23:LEU:HD21	1.47	0.93
4:D:148:ALA:HB3	4:D:149:PRO:HD3	1.48	0.93
9:J:10:LEU:HD13	9:J:10:LEU:H	1.34	0.93
10:K:39:VAL:HG23	18:Y:36:ILE:CD1	1.96	0.93
1:a:5205:VAL:CB	1:a:5279:ARG:NH1	2.30	0.93
22:B:1014:CLA:C7	22:B:1014:CLA:C4	2.36	0.93
3:C:56:HIS:C	3:C:58:GLY:H	1.72	0.93
29:C:1057:DGD:HBF2	29:C:1057:DGD:HBG3	1.51	0.93
9:J:21:VAL:HG12	9:J:22:ILE:HD12	1.48	0.93
25:T:6046:BCR:H331	25:T:6046:BCR:C8	1.92	0.93
22:a:6003:CLA:H42	23:a:6038:PHO:C3B	1.99	0.93
29:c:6056:DGD:C3E	29:c:6056:DGD:C6D	2.46	0.93
1:A:142:TRP:HB3	3:C:443:TRP:CH2	2.03	0.92
1:A:196:PRO:HB2	29:C:1057:DGD:HA81	1.47	0.92
23:A:1038:PHO:C20	22:D:1005:CLA:CMB	2.48	0.92
22:B:1012:CLA:C1D	22:B:1020:CLA:C20	2.47	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5224:ILE:H	2:b:5482:ILE:HG23	1.34	0.92
22:c:6028:CLA:NC	29:c:6056:DGD:HA31	1.84	0.92
4:d:5087:HIS:CD2	4:d:5162:LEU:HA	2.04	0.92
1:a:5310:LYS:HB2	16:v:5028:GLU:HB3	1.51	0.92
22:a:6003:CLA:CAA	22:a:6003:CLA:CED	2.30	0.92
22:b:6022:CLA:O1A	22:b:6022:CLA:H42	1.68	0.92
2:B:370:LEU:HB2	2:B:379:ALA:HB3	1.47	0.92
25:B:1045:BCR:H331	25:B:1045:BCR:C8	1.98	0.92
22:C:1028:CLA:NC	29:C:1056:DGD:HA31	1.84	0.92
24:D:1042:PQ9:H242	28:L:1061:MGE:H212	1.46	0.92
22:a:6006:CLA:CBB	22:d:6004:CLA:H51	1.99	0.92
22:c:6025:CLA:H152	22:c:6031:CLA:H92	1.49	0.92
1:A:279:ARG:NH1	23:A:1038:PHO:CMC	2.22	0.92
2:B:83:GLU:HG2	2:B:86:ILE:HD11	1.51	0.92
23:D:1039:PHO:HMA2	22:D:1004:CLA:H143	1.50	0.92
22:b:6009:CLA:CED	22:b:6009:CLA:H2A	2.00	0.92
25:b:6045:BCR:H331	25:b:6045:BCR:C8	1.98	0.92
22:A:1003:CLA:H42	23:A:1038:PHO:C3B	1.99	0.92
22:B:1021:CLA:HED3	22:B:1021:CLA:O1A	1.70	0.92
26:a:6063:LHG:C29	22:c:6032:CLA:H72	1.99	0.92
2:b:5083:GLU:HG2	2:b:5086:ILE:HD11	1.51	0.92
22:c:6029:CLA:NC	22:c:6029:CLA:C4	2.30	0.92
22:A:1006:CLA:CBB	22:D:1004:CLA:H51	1.99	0.92
22:a:6003:CLA:H42	23:a:6038:PHO:NB	1.85	0.92
24:a:6043:PQ9:H452	28:d:6059:MGE:H8A2	1.51	0.92
26:a:6063:LHG:H321	22:k:6034:CLA:H151	1.50	0.92
16:v:5118:HIS:CD2	16:v:5119:PRO:HD2	2.05	0.92
23:A:1038:PHO:C20	22:D:1005:CLA:C2B	2.46	0.92
22:B:1016:CLA:H51	22:H:1017:CLA:H112	1.52	0.92
22:B:1023:CLA:H161	22:B:1023:CLA:H101	1.51	0.92
16:V:118:HIS:CD2	16:V:119:PRO:HD2	2.05	0.92
25:b:6045:BCR:H372	25:b:6045:BCR:H361	1.50	0.92
3:c:5167:VAL:HA	3:c:5170:ILE:HD12	1.50	0.92
3:c:5167:VAL:O	3:c:5170:ILE:HB	1.69	0.92
22:B:1021:CLA:H2	22:B:1021:CLA:HMA3	1.52	0.92
3:C:167:VAL:HA	3:C:170:ILE:HD12	1.50	0.92
4:D:139:ARG:HH12	4:D:265:ARG:HH21	1.15	0.92
10:k:5033:PHE:HB2	22:k:6034:CLA:H3A	1.51	0.92
18:y:5044:GLY:O	18:y:5045:ASN:HB3	1.70	0.92
20:z:5020:VAL:O	20:z:5024:PRO:HD2	1.69	0.92
24:A:1043:PQ9:H452	28:D:1059:MGE:H8A2	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B:1045:BCR:H372	25:B:1045:BCR:H361	1.50	0.92
22:C:1031:CLA:HHD	22:C:1031:CLA:CBC	1.98	0.92
25:a:6044:BCR:H371	25:a:6044:BCR:H392	1.30	0.92
22:b:6012:CLA:C1D	22:b:6020:CLA:C20	2.47	0.92
29:c:6057:DGD:HAF2	28:d:6059:MGE:CCB	1.99	0.92
5:e:5013:ILE:HG12	31:f:6040:HEM:HBC2	1.52	0.92
31:f:6040:HEM:HMA1	31:f:6040:HEM:CBA	1.97	0.92
1:A:272:HIS:CD2	4:D:218:VAL:HG21	2.04	0.92
22:B:1014:CLA:HHD	22:B:1014:CLA:CBC	2.00	0.92
22:B:1021:CLA:H2A	22:B:1021:CLA:O1A	1.61	0.92
3:C:49:LEU:HD21	22:C:1035:CLA:HMA1	1.52	0.92
18:Y:44:GLY:O	18:Y:45:ASN:HB3	1.70	0.92
29:c:6055:DGD:O2D	29:c:6055:DGD:HG31	1.67	0.92
3:c:5036:TRP:CZ3	3:c:5037:ALA:HB2	2.06	0.91
1:A:76:ASN:ND2	11:L:33:SER:HB3	1.85	0.91
22:B:1015:CLA:CBC	25:B:1045:BCR:C34	2.45	0.91
3:C:167:VAL:O	3:C:170:ILE:HB	1.69	0.91
23:a:6038:PHO:C20	22:d:6005:CLA:CMB	2.47	0.91
2:b:5174:LEU:CD2	2:b:5266:GLU:HG2	2.01	0.91
22:b:6011:CLA:C1	22:b:6013:CLA:H93	1.99	0.91
9:j:5010:LEU:HD13	9:j:5010:LEU:H	1.34	0.91
1:A:310:LYS:HB2	16:V:28:GLU:HB3	1.51	0.91
22:B:1016:CLA:HBC3	22:B:1016:CLA:HHD	1.49	0.91
23:D:1039:PHO:HBA2	23:D:1039:PHO:HMA1	1.47	0.91
16:V:88:ALA:HA	16:V:108:TYR:CE2	2.05	0.91
1:a:5279:ARG:CD	4:d:5208:ALA:HB1	1.98	0.91
22:b:6021:CLA:HMD2	22:b:6022:CLA:HBB2	1.52	0.91
22:c:6031:CLA:OBD	22:c:6033:CLA:H161	1.71	0.91
1:a:5076:ASN:ND2	11:l:5033:SER:HB3	1.85	0.91
22:A:1003:CLA:H42	23:A:1038:PHO:NB	1.85	0.91
2:B:174:LEU:CD2	2:B:266:GLU:HG2	2.01	0.91
3:C:36:TRP:CZ3	3:C:37:ALA:HB2	2.06	0.91
22:C:1031:CLA:OBD	22:C:1033:CLA:H161	1.71	0.91
22:C:1035:CLA:HBB2	22:K:1034:CLA:HMA2	1.48	0.91
3:c:5049:LEU:CD2	3:c:5052:ALA:N	2.28	0.91
22:B:1015:CLA:C4	22:B:1015:CLA:H71	2.00	0.91
22:D:1005:CLA:HBC1	22:D:1004:CLA:HBB2	1.48	0.91
4:d:5139:ARG:HH12	4:d:5265:ARG:HH21	1.14	0.91
23:d:6039:PHO:HMA2	22:d:6004:CLA:H143	1.50	0.91
22:B:1022:CLA:H202	22:B:1022:CLA:C2D	2.01	0.91
20:Z:20:VAL:O	20:Z:24:PRO:HD2	1.69	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5314:ILE:HD12	4:d:5058:TRP:HZ3	1.36	0.91
22:b:6016:CLA:H52	22:h:6017:CLA:H92	1.48	0.91
29:C:1055:DGD:HAT1	29:C:1055:DGD:C6A	2.01	0.91
22:b:6021:CLA:HED3	22:b:6021:CLA:O1A	1.70	0.91
3:c:5049:LEU:O	3:c:5049:LEU:HD13	1.71	0.91
3:c:5100:GLY:HA2	3:c:5196:VAL:HG12	1.50	0.91
13:o:5052:ALA:HB1	13:o:5230:VAL:H	1.34	0.91
22:b:6022:CLA:H143	22:b:6022:CLA:H101	1.51	0.91
22:b:6023:CLA:H101	22:b:6023:CLA:H161	1.51	0.91
29:b:6058:DGD:HBF2	29:b:6058:DGD:HBG2	0.91	0.91
3:c:5056:HIS:C	3:c:5058:GLY:H	1.72	0.91
25:k:6051:BCR:H23C	25:k:6051:BCR:C40	2.01	0.91
22:B:1021:CLA:HMD2	22:B:1022:CLA:HBB2	1.52	0.91
3:C:224:ILE:HD12	25:C:1054:BCR:H383	1.53	0.91
3:C:296:VAL:HG23	3:C:297:TYR:CD1	2.06	0.91
22:D:1008:CLA:CBA	22:D:1008:CLA:HMA3	2.01	0.91
13:O:214:LYS:HE3	13:O:251:MET:HG3	1.53	0.91
2:b:5273:TYR:HA	2:b:5276:ASP:OD1	1.71	0.91
3:c:5224:ILE:HD12	25:c:6054:BCR:H383	1.53	0.91
22:c:6032:CLA:HAB	22:k:6034:CLA:HMC1	1.53	0.91
23:d:6039:PHO:HMA3	22:d:6004:CLA:C14	2.01	0.91
22:A:1003:CLA:C4	23:A:1038:PHO:C1B	2.49	0.90
28:B:1060:MGE:H7B1	28:B:1060:MGE:H3B2	1.53	0.90
29:C:1057:DGD:CIB	29:C:1057:DGD:CEB	2.47	0.90
25:Z:1053:BCR:H361	25:Z:1053:BCR:C37	2.01	0.90
3:c:5117:VAL:HG11	22:c:6027:CLA:H42	1.50	0.90
22:c:6036:CLA:HBB1	22:c:6036:CLA:HHC	1.53	0.90
23:d:6039:PHO:HMA3	22:d:6004:CLA:H102	1.50	0.90
22:a:6003:CLA:C4	23:a:6038:PHO:C1B	2.49	0.90
24:a:6043:PQ9:H452	28:d:6059:MGE:C8A	2.01	0.90
22:b:6021:CLA:H2	22:b:6021:CLA:HMA3	1.52	0.90
3:c:5348:GLU:HG2	3:c:5349:ILE:HG13	1.52	0.90
16:v:5088:ALA:HA	16:v:5108:TYR:CE2	2.05	0.90
25:z:6053:BCR:H361	25:z:6053:BCR:C37	2.02	0.90
2:B:149:LEU:HB2	22:B:1012:CLA:H202	1.53	0.90
2:B:273:TYR:HA	2:B:276:ASP:OD1	1.71	0.90
22:C:1036:CLA:HHC	22:C:1036:CLA:HBB1	1.53	0.90
22:b:6009:CLA:CBD	22:b:6010:CLA:HBB1	1.94	0.90
6:f:5041:GLN:NE2	9:j:5028:PHE:HA	1.87	0.90
1:a:5184:ILE:HG12	4:d:5186:GLN:NE2	1.87	0.90
1:A:279:ARG:HH11	23:A:1038:PHO:HMC2	0.76	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A:1063:LHG:C29	22:C:1032:CLA:C7	2.50	0.90
22:B:1009:CLA:CED	22:B:1009:CLA:H2A	2.00	0.90
22:B:1022:CLA:H143	22:B:1022:CLA:H101	1.51	0.90
16:V:62:ALA:O	16:V:63:CYS:HB2	1.70	0.90
2:b:5105:GLY:HA2	25:b:6047:BCR:C40	2.02	0.90
22:b:6022:CLA:C2D	22:b:6022:CLA:H202	2.01	0.90
4:D:261:PHE:H	24:D:1042:PQ9:C9	1.85	0.90
13:O:52:ALA:HB1	13:O:230:VAL:H	1.34	0.90
1:a:5220:THR:HA	1:a:5223:LEU:HD23	1.54	0.90
3:C:61:VAL:HG11	3:C:125:LEU:HD13	1.53	0.90
3:C:100:GLY:HA2	3:C:196:VAL:HG12	1.50	0.90
29:C:1057:DGD:HAF2	28:D:1059:MGE:CCB	1.99	0.90
2:b:5174:LEU:N	2:b:5174:LEU:CD1	2.35	0.90
16:v:5062:ALA:O	16:v:5063:CYS:HB2	1.70	0.90
22:C:1033:CLA:H2	22:C:1033:CLA:O1A	1.72	0.90
1:a:5180:PHE:CD1	4:d:5192:THR:HB	2.07	0.90
22:b:6009:CLA:H8	22:b:6009:CLA:H143	0.90	0.90
1:A:127:MET:O	1:A:130:GLN:HB3	1.72	0.90
1:A:180:PHE:CD1	4:D:192:THR:HB	2.07	0.90
1:A:184:ILE:HG12	4:D:186:GLN:NE2	1.87	0.90
1:A:224:ILE:H	2:B:482:ILE:HG23	1.34	0.90
22:B:1023:CLA:H13	22:B:1024:CLA:HMA1	1.50	0.90
1:a:5316:THR:C	4:d:5063:LEU:HD21	1.97	0.90
29:c:6057:DGD:CIB	29:c:6057:DGD:CEB	2.47	0.90
2:B:65:PHE:HE2	22:B:1012:CLA:HMA2	1.23	0.90
22:B:1022:CLA:H43	22:B:1022:CLA:CGA	2.01	0.90
3:C:49:LEU:O	3:C:49:LEU:HD13	1.71	0.90
11:L:14:ARG:HA	12:M:26:TYR:HE1	1.36	0.90
2:b:5149:LEU:HB2	22:b:6012:CLA:H202	1.53	0.90
3:C:199:ILE:HG21	3:C:234:VAL:HG11	1.54	0.89
3:C:449:ARG:HD3	22:C:1029:CLA:HED1	1.54	0.89
5:E:13:ILE:HG12	31:F:1040:HEM:HBC2	1.52	0.89
11:L:24:ILE:HD13	12:M:18:PRO:HG2	1.52	0.89
22:A:1006:CLA:HHD	22:A:1006:CLA:CBC	2.02	0.89
2:B:265:ILE:HD12	2:B:265:ILE:H	1.36	0.89
4:D:253:TRP:HA	4:D:256:ILE:CG2	2.02	0.89
24:A:1043:PQ9:H452	28:D:1059:MGE:C8A	2.01	0.89
22:C:1033:CLA:CMA	22:K:1034:CLA:C2C	2.51	0.89
23:D:1039:PHO:HMA3	22:D:1004:CLA:C14	2.01	0.89
2:b:5338:GLN:HE21	2:b:5338:GLN:HA	1.36	0.89
22:c:6031:CLA:H141	25:c:6054:BCR:H362	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5226:GLY:HA3	4:d:5234:ALA:HB2	1.54	0.89
15:u:5031:ASN:HD22	15:u:5032:ILE:N	1.70	0.89
28:B:1060:MGE:CFB	28:B:1060:MGE:CBB	2.32	0.89
3:C:48:LYS:HD2	22:C:1035:CLA:HED1	1.53	0.89
4:D:226:GLY:HA3	4:D:234:ALA:HB2	1.54	0.89
22:D:1008:CLA:H143	22:D:1008:CLA:H18	1.52	0.89
22:B:1009:CLA:H8	22:B:1009:CLA:H143	0.90	0.89
28:B:1060:MGE:H7B1	28:B:1060:MGE:C3B	2.03	0.89
22:D:1008:CLA:HBA1	22:D:1008:CLA:HMA3	1.54	0.89
22:b:6014:CLA:HHD	22:b:6014:CLA:CBC	2.00	0.89
11:l:5029:LEU:HB2	14:t:5009:ILE:HG21	1.54	0.89
8:I:31:ASN:HB2	8:I:32:PRO:HD2	1.55	0.89
22:b:6022:CLA:CGA	22:b:6022:CLA:H43	2.01	0.89
4:d:5261:PHE:H	24:d:6042:PQ9:C9	1.85	0.89
22:d:6008:CLA:H143	22:d:6008:CLA:H18	1.52	0.89
3:c:5117:VAL:HG12	3:c:5118:HIS:N	1.87	0.89
3:c:5449:ARG:HD3	22:c:6029:CLA:HED1	1.54	0.89
22:c:6033:CLA:CMA	22:k:6034:CLA:C2C	2.51	0.89
29:c:6057:DGD:HBF2	29:c:6057:DGD:HBG3	1.51	0.89
25:A:1044:BCR:H403	25:A:1044:BCR:H372	1.55	0.89
26:A:1063:LHG:C29	22:C:1032:CLA:H72	2.01	0.89
22:C:1025:CLA:C12	25:C:1054:BCR:C35	2.49	0.89
6:F:41:GLN:NE2	9:J:28:PHE:HA	1.87	0.89
25:T:6046:BCR:C35	25:b:6047:BCR:H24C	2.02	0.89
25:T:6046:BCR:H392	25:T:6046:BCR:H23C	1.54	0.89
22:b:6015:CLA:C4	22:b:6015:CLA:H71	2.00	0.89
22:b:6016:CLA:H51	22:h:6017:CLA:H112	1.52	0.89
2:B:127:ARG:HD3	2:B:128:THR:HG23	1.54	0.89
2:B:174:LEU:N	2:B:174:LEU:CD1	2.35	0.89
2:B:338:GLN:HA	2:B:338:GLN:HE21	1.36	0.89
2:B:460:LEU:HA	29:B:1058:DGD:HAG1	1.53	0.89
22:B:1023:CLA:H91	22:B:1024:CLA:C15	2.03	0.89
25:B:1047:BCR:H24C	25:t:1046:BCR:C35	2.02	0.89
1:a:5265:PHE:CZ	26:a:6063:LHG:H151	2.07	0.89
4:d:5253:TRP:HA	4:d:5256:ILE:CG2	2.02	0.89
23:A:1038:PHO:C20	22:D:1005:CLA:HMB1	2.03	0.89
3:c:5223:TRP:CD1	3:c:5224:ILE:HG12	2.08	0.89
3:c:5296:VAL:HG23	3:c:5297:TYR:CD1	2.06	0.89
22:d:6008:CLA:HBA1	22:d:6008:CLA:HMA3	1.54	0.89
2:B:191:ASN:ND2	7:H:60:VAL:HG12	1.88	0.88
22:B:1012:CLA:H12	22:B:1013:CLA:H43	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1013:CLA:HAB	22:B:1014:CLA:C5	2.03	0.88
22:d:6008:CLA:CBA	22:d:6008:CLA:HMA3	2.01	0.88
1:A:314:ILE:HD12	4:D:58:TRP:HZ3	1.36	0.88
1:A:316:THR:C	4:D:63:LEU:HD21	1.97	0.88
3:C:223:TRP:CD1	3:C:224:ILE:HG12	2.08	0.88
24:D:1042:PQ9:O1	24:D:1042:PQ9:H143	1.72	0.88
13:O:132:VAL:HG23	13:O:144:LEU:HD21	1.55	0.88
22:a:6003:CLA:HAA2	22:a:6003:CLA:HED3	1.54	0.88
2:b:5025:MET:HG3	25:b:6045:BCR:H401	1.55	0.88
3:c:5048:LYS:HD2	22:c:6035:CLA:HED1	1.53	0.88
3:c:5061:VAL:HG11	3:c:5125:LEU:HD13	1.53	0.88
10:k:5033:PHE:CD1	10:k:5033:PHE:C	2.49	0.88
11:l:5024:ILE:HD13	12:m:5018:PRO:HG2	1.52	0.88
2:B:311:PHE:HE2	2:B:317:ASN:HD21	1.15	0.88
10:K:33:PHE:C	10:K:33:PHE:CD2	2.50	0.88
12:M:9:ILE:CD1	12:m:5009:ILE:CD1	2.51	0.88
22:b:6021:CLA:CED	22:b:6021:CLA:H2	2.03	0.88
28:b:6060:MGE:H3B2	28:b:6060:MGE:H7B1	1.53	0.88
24:d:6042:PQ9:H143	24:d:6042:PQ9:O1	1.72	0.88
22:B:1015:CLA:CAC	25:t:1046:BCR:H281	2.03	0.88
29:B:1058:DGD:HBF2	29:B:1058:DGD:HBG2	0.91	0.88
3:C:348:GLU:HG2	3:C:349:ILE:HG13	1.52	0.88
22:C:1035:CLA:C8	25:C:1052:BCR:C40	2.52	0.88
4:D:191:TRP:CE2	4:D:197:HIS:HB2	2.08	0.88
1:a:5279:ARG:HH21	23:a:6038:PHO:CMC	1.85	0.88
2:b:5460:LEU:HA	29:b:6058:DGD:HAG1	1.53	0.88
3:c:5063:TRP:HE1	22:c:6028:CLA:C2C	1.86	0.88
8:i:5031:ASN:HB2	8:i:5032:PRO:HD2	1.55	0.88
22:B:1021:CLA:CED	22:B:1021:CLA:H2	2.04	0.88
2:b:5127:ARG:HD3	2:b:5128:THR:HG23	1.54	0.88
22:c:6029:CLA:HBA2	22:c:6029:CLA:CMA	2.03	0.88
4:d:5124:GLY:HA2	4:d:5127:LEU:HD12	1.54	0.88
2:B:99:ALA:HB1	22:B:1014:CLA:C4	2.04	0.88
25:T:6046:BCR:H281	22:b:6015:CLA:CAC	2.03	0.88
26:a:6063:LHG:C29	22:c:6032:CLA:C7	2.51	0.88
2:b:5191:ASN:ND2	7:h:5060:VAL:HG12	1.88	0.88
22:b:6012:CLA:H12	22:b:6013:CLA:H43	1.55	0.88
11:l:5014:ARG:HA	12:m:5026:TYR:HE1	1.36	0.88
2:B:25:MET:HG3	25:B:1045:BCR:H401	1.55	0.88
3:C:56:HIS:HA	3:C:59:LEU:HD12	1.56	0.88
3:C:117:VAL:HG12	3:C:118:HIS:N	1.87	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:C:1029:CLA:HBA2	22:C:1029:CLA:CMA	2.03	0.88
22:C:1031:CLA:H141	25:C:1054:BCR:H362	1.54	0.88
28:b:6060:MGE:H7B1	28:b:6060:MGE:C3B	2.03	0.88
3:c:5039:ASN:HB2	22:c:6032:CLA:HBA1	1.56	0.88
22:C:1033:CLA:HMA1	22:K:1034:CLA:C2C	2.04	0.88
25:D:1050:BCR:H383	25:D:1050:BCR:C23	1.97	0.88
3:c:5140:LEU:HD21	3:c:5146:PHE:HE1	1.38	0.88
22:c:6025:CLA:C12	25:c:6054:BCR:C35	2.49	0.88
25:t:1046:BCR:H392	25:t:1046:BCR:H23C	1.54	0.88
2:B:7:ARG:HG2	2:B:7:ARG:NH1	1.83	0.88
2:B:105:GLY:HA3	25:B:1047:BCR:C40	2.02	0.88
22:B:1012:CLA:CBB	22:B:1015:CLA:HBB2	2.04	0.88
4:D:183:LEU:HD23	4:D:183:LEU:H	1.38	0.88
10:K:31:LEU:HB3	25:K:1051:BCR:C14	2.03	0.88
2:b:5265:ILE:H	2:b:5265:ILE:HD12	1.36	0.88
22:b:6013:CLA:HAB	22:b:6014:CLA:C5	2.03	0.88
3:c:5050:LEU:HD21	3:c:5054:VAL:HG23	1.54	0.88
22:c:6025:CLA:H91	25:c:6054:BCR:H373	1.56	0.88
1:A:220:THR:HA	1:A:223:LEU:HD23	1.53	0.87
1:A:265:PHE:CZ	26:A:1063:LHG:H151	2.07	0.87
25:B:1048:BCR:H403	25:B:1048:BCR:H372	1.56	0.87
4:D:124:GLY:HA2	4:D:127:LEU:HD12	1.54	0.87
11:L:29:LEU:HB2	14:T:9:ILE:HG21	1.54	0.87
15:U:31:ASN:HD22	15:U:32:ILE:N	1.70	0.87
18:Y:43:ARG:CG	18:Y:44:GLY:H	1.87	0.87
1:a:5127:MET:O	1:a:5130:GLN:HB3	1.72	0.87
2:b:5099:ALA:HB1	22:b:6014:CLA:C4	2.04	0.87
22:c:6025:CLA:H141	22:c:6031:CLA:CMB	2.05	0.87
13:o:5055:ALA:HB1	13:o:5161:SER:HB3	1.55	0.87
22:B:1020:CLA:H102	22:B:1020:CLA:C16	2.03	0.87
29:c:6056:DGD:O1A	29:c:6056:DGD:HA41	1.73	0.87
4:d:5191:TRP:CE2	4:d:5197:HIS:HB2	2.08	0.87
10:k:5031:LEU:HB3	25:k:6051:BCR:C14	2.03	0.87
13:o:5214:LYS:HE3	13:o:5251:MET:HG3	1.53	0.87
3:C:39:ASN:HB2	22:C:1032:CLA:HBA1	1.56	0.87
18:Y:42:ARG:HB3	18:Y:43:ARG:HH11	1.40	0.87
22:a:6006:CLA:HHD	22:a:6006:CLA:CBC	2.02	0.87
22:c:6029:CLA:C4B	22:c:6029:CLA:C5	2.52	0.87
22:c:6035:CLA:C8	25:k:6052:BCR:C40	2.52	0.87
4:d:5274:VAL:HB	4:d:5275:PRO:HD3	1.55	0.87
6:f:5019:ARG:HH22	31:f:6040:HEM:HAC	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:t:1046:BCR:H331	25:t:1046:BCR:C8	1.92	0.87
22:B:1011:CLA:C19	22:H:1017:CLA:C10	2.51	0.87
22:B:1018:CLA:H152	22:B:1020:CLA:O1A	1.75	0.87
3:C:50:LEU:HD21	3:C:54:VAL:HG23	1.54	0.87
3:C:63:TRP:HE1	22:C:1028:CLA:C2C	1.86	0.87
3:C:79:LYS:HB3	3:C:84:GLN:NE2	1.89	0.87
22:C:1032:CLA:HAB	22:K:1034:CLA:HMC1	1.53	0.87
22:b:6011:CLA:C19	22:h:6017:CLA:C10	2.51	0.87
22:b:6023:CLA:H91	22:b:6024:CLA:C15	2.03	0.87
22:c:6033:CLA:O1A	22:c:6033:CLA:H2	1.72	0.87
22:A:1003:CLA:HAA2	22:A:1003:CLA:HED3	1.54	0.87
4:D:258:GLY:O	4:D:259:ILE:HD13	1.73	0.87
2:b:5332:LYS:HB3	2:b:5444:ARG:HH12	1.38	0.87
25:b:6047:BCR:H392	25:b:6047:BCR:H373	1.56	0.87
4:d:5183:LEU:HD23	4:d:5183:LEU:H	1.38	0.87
4:d:5258:GLY:O	4:d:5259:ILE:HD13	1.73	0.87
22:B:1018:CLA:C10	22:B:1023:CLA:CAA	2.52	0.87
3:C:417:VAL:CG1	16:V:68:VAL:HB	2.05	0.87
22:C:1029:CLA:C4B	22:C:1029:CLA:C5	2.52	0.87
5:E:20:TRP:HZ2	9:J:13:VAL:HG23	1.40	0.87
25:H:1049:BCR:H311	25:H:1049:BCR:HC8	1.57	0.87
1:a:5325:ASN:HD22	1:a:5328:MET:HE3	1.39	0.87
2:b:5456:ALA:CB	29:b:6058:DGD:HBV1	2.05	0.87
22:b:6021:CLA:H2A	22:b:6021:CLA:O1A	1.61	0.87
29:c:6055:DGD:C6A	29:c:6055:DGD:HAT1	2.01	0.87
15:u:5068:THR:CG2	15:u:5071:GLN:H	1.86	0.87
2:B:133:LEU:HD23	2:B:138:MET:HE1	1.57	0.87
2:B:191:ASN:HD21	7:H:60:VAL:HA	1.39	0.87
2:B:332:LYS:HB3	2:B:444:ARG:HH12	1.38	0.87
5:e:5073:LYS:O	5:e:5076:VAL:HG23	1.74	0.87
18:y:5032:GLY:O	18:y:5035:ILE:HG23	1.75	0.87
25:B:1048:BCR:H392	25:B:1048:BCR:H373	1.56	0.87
4:D:92:LEU:HA	4:D:104:TRP:CD1	2.09	0.87
5:E:73:LYS:O	5:E:76:VAL:HG23	1.74	0.87
15:U:45:LEU:O	15:U:49:ILE:HG13	1.74	0.87
15:U:68:THR:CG2	15:U:71:GLN:H	1.86	0.87
25:a:6044:BCR:H392	25:a:6044:BCR:H373	1.55	0.87
25:a:6044:BCR:H403	25:a:6044:BCR:H372	1.55	0.87
11:l:5014:ARG:HA	12:m:5026:TYR:CE1	2.10	0.87
7:H:44:ILE:HD11	17:X:19:PHE:CE2	2.10	0.87
25:K:1051:BCR:H23C	25:K:1051:BCR:C40	2.01	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:b:6011:CLA:C2	22:b:6013:CLA:C9	2.53	0.87
3:c:5223:TRP:NE1	3:c:5224:ILE:HG12	1.90	0.87
10:k:5033:PHE:C	10:k:5033:PHE:HD1	1.80	0.87
15:u:5045:LEU:O	15:u:5049:ILE:HG13	1.74	0.87
22:B:1011:CLA:C2	22:B:1013:CLA:C9	2.53	0.86
22:B:1014:CLA:H111	25:B:1048:BCR:HC7	1.57	0.86
22:B:1023:CLA:H143	22:B:1024:CLA:H61	1.57	0.86
13:o:5132:VAL:HG23	13:o:5144:LEU:HD21	1.55	0.86
4:D:274:VAL:HB	4:D:275:PRO:HD3	1.55	0.86
13:O:85:LYS:HB3	2:b:5307:GLU:OE2	1.75	0.86
18:Y:32:GLY:O	18:Y:35:ILE:HG23	1.74	0.86
2:b:5223:GLN:HE21	7:h:5021:VAL:HG11	1.39	0.86
22:b:6018:CLA:C10	22:b:6023:CLA:CAA	2.52	0.86
3:c:5264:PHE:N	3:c:5264:PHE:CD2	2.30	0.86
4:d:5092:LEU:HA	4:d:5104:TRP:CD1	2.09	0.86
4:d:5095:PRO:HG3	17:x:5015:SER:HB2	1.57	0.86
1:A:44:ALA:HB2	1:A:118:HIS:HB3	1.57	0.86
22:A:1003:CLA:C4	23:A:1038:PHO:C2B	2.52	0.86
2:B:65:PHE:CZ	22:B:1012:CLA:HMA3	2.10	0.86
22:C:1028:CLA:H102	29:C:1056:DGD:HAS2	1.57	0.86
29:C:1056:DGD:O1A	29:C:1056:DGD:HA41	1.73	0.86
6:F:40:MET:O	6:F:43:ILE:HG13	1.75	0.86
22:K:1034:CLA:C4	22:K:1034:CLA:C7	2.49	0.86
1:a:5279:ARG:HD3	4:d:5208:ALA:HB1	1.55	0.86
3:c:5049:LEU:CD2	3:c:5052:ALA:CB	2.53	0.86
3:c:5079:LYS:HB3	3:c:5084:GLN:NE2	1.89	0.86
22:c:6033:CLA:HMA1	22:k:6034:CLA:C2C	2.04	0.86
2:B:223:GLN:HE21	7:H:21:VAL:HG11	1.39	0.86
12:M:9:ILE:HG12	12:m:5008:PHE:HB3	1.57	0.86
22:b:6012:CLA:C1D	22:b:6020:CLA:H201	2.05	0.86
22:b:6013:CLA:C12	22:b:6018:CLA:H42	2.05	0.86
3:c:5199:ILE:HG21	3:c:5234:VAL:HG11	1.54	0.86
4:d:5213:ILE:HG12	24:d:6042:PQ9:H111	1.58	0.86
6:f:5015:ILE:HG13	6:f:5016:PHE:HD1	1.41	0.86
22:A:1003:CLA:H42	23:A:1038:PHO:C2B	2.06	0.86
2:B:456:ALA:CB	29:B:1058:DGD:HBV1	2.05	0.86
3:C:172:ALA:N	22:C:1025:CLA:HBC2	1.90	0.86
10:K:11:LEU:HD11	10:K:22:VAL:HG21	1.58	0.86
23:a:6038:PHO:C20	22:d:6005:CLA:HMB1	2.03	0.86
22:b:6012:CLA:CBB	22:b:6015:CLA:HBB2	2.04	0.86
1:A:297:LEU:HD22	3:C:404:LEU:HD23	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:105:GLY:HA2	25:B:1047:BCR:C40	2.02	0.86
3:C:49:LEU:CD2	3:C:52:ALA:CB	2.53	0.86
25:T:6048:BCR:H403	25:T:6048:BCR:H372	1.57	0.86
1:a:5297:LEU:HD22	3:c:5404:LEU:HD23	1.56	0.86
22:a:6003:CLA:H42	23:a:6038:PHO:C2B	2.06	0.86
25:A:1044:BCR:H392	25:A:1044:BCR:H373	1.55	0.86
7:H:54:ILE:O	7:H:55:LEU:HD13	1.75	0.86
25:H:1049:BCR:C39	25:H:1049:BCR:C23	2.30	0.86
2:b:5007:ARG:HG2	2:b:5007:ARG:NH1	1.83	0.86
3:c:5042:LEU:CD2	3:c:5048:LYS:HG2	2.06	0.86
3:c:5049:LEU:HD12	3:c:5049:LEU:N	1.91	0.86
6:f:5040:MET:O	6:f:5043:ILE:HG13	1.75	0.86
22:B:1013:CLA:C12	22:B:1018:CLA:H42	2.05	0.86
3:C:49:LEU:HD12	3:C:49:LEU:N	1.91	0.86
3:C:140:LEU:HD21	3:C:146:PHE:HE1	1.38	0.86
3:C:223:TRP:NE1	3:C:224:ILE:HG12	1.90	0.86
22:C:1035:CLA:C9	25:C:1052:BCR:H402	2.06	0.86
22:K:1034:CLA:H71	22:K:1034:CLA:H43	1.57	0.86
22:a:6003:CLA:C4	23:a:6038:PHO:C2B	2.52	0.86
28:b:6060:MGE:CFB	28:b:6060:MGE:CBB	2.32	0.86
3:c:5056:HIS:HA	3:c:5059:LEU:HD12	1.56	0.86
3:c:5172:ALA:N	22:c:6025:CLA:HBC2	1.90	0.86
3:c:5429:SER:HB3	29:c:6056:DGD:HA91	1.58	0.86
22:c:6033:CLA:HMA2	22:k:6034:CLA:CAC	2.05	0.86
13:o:5176:SER:HB3	13:o:5216:PHE:HE2	1.40	0.86
15:u:5061:VAL:HG12	15:u:5075:LEU:HD23	1.58	0.86
1:A:14:TRP:HH2	8:I:21:PHE:HB3	1.41	0.86
1:A:103:ASP:HA	1:A:106:LEU:HD12	1.58	0.86
4:D:95:PRO:HG3	17:X:15:SER:HB2	1.57	0.86
4:D:160:TYR:CE1	27:D:1068:IOD:I	2.98	0.86
28:D:1059:MGE:H251	28:D:1059:MGE:H212	1.56	0.86
25:T:6048:BCR:H392	25:T:6048:BCR:H373	1.56	0.86
2:b:5065:PHE:CZ	22:b:6012:CLA:CMA	2.58	0.86
3:c:5263:ALA:CB	3:c:5264:PHE:CD2	2.59	0.86
10:k:5026:PRO:O	10:k:5029:PRO:HD2	1.75	0.86
3:C:49:LEU:HD11	22:C:1035:CLA:HMA2	1.57	0.86
3:C:50:LEU:HD23	3:C:51:GLY:N	1.91	0.86
3:C:263:ALA:CB	3:C:264:PHE:CD2	2.59	0.86
3:C:429:SER:HB3	29:C:1056:DGD:HA91	1.58	0.86
29:C:1056:DGD:C3E	29:C:1056:DGD:C6D	2.46	0.86
13:O:55:ALA:HB1	13:O:161:SER:HB3	1.55	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5014:TRP:HH2	8:i:5021:PHE:HB3	1.41	0.86
2:b:5105:GLY:HA3	25:b:6047:BCR:C40	2.02	0.86
22:c:6037:CLA:HHD	22:c:6037:CLA:CBC	2.06	0.86
7:h:5054:ILE:O	7:h:5055:LEU:HD13	1.75	0.86
1:A:279:ARG:HD3	4:D:208:ALA:CB	2.06	0.85
22:B:1016:CLA:C16	22:D:1008:CLA:CMA	2.30	0.85
3:C:50:LEU:HD23	3:C:50:LEU:O	1.76	0.85
4:D:213:ILE:HG12	24:D:1042:PQ9:H111	1.58	0.85
10:K:26:PRO:O	10:K:29:PRO:HD2	1.75	0.85
3:c:5417:VAL:CG1	16:v:5068:VAL:HB	2.05	0.85
7:h:5044:ILE:HD11	17:x:5019:PHE:CE2	2.10	0.85
22:B:1019:CLA:HBA1	22:B:1019:CLA:CHA	2.07	0.85
3:C:42:LEU:CD1	3:C:49:LEU:CD1	2.54	0.85
6:F:28:VAL:HB	6:F:29:PRO:HD3	1.58	0.85
1:a:5044:ALA:HB2	1:a:5118:HIS:HB3	1.57	0.85
22:b:6018:CLA:H152	22:b:6020:CLA:O1A	1.75	0.85
5:e:5020:TRP:HZ2	9:j:5013:VAL:HG23	1.40	0.85
1:A:258:LEU:HD12	4:D:128:ARG:NH2	1.91	0.85
22:A:1006:CLA:C17	25:D:1050:BCR:H282	2.07	0.85
22:B:1012:CLA:C1D	22:B:1020:CLA:H201	2.05	0.85
25:B:1047:BCR:H392	25:B:1047:BCR:H373	1.56	0.85
13:O:46:PRO:HB2	13:O:266:TYR:CD2	2.12	0.85
1:a:5259:ILE:HD13	24:a:6043:PQ9:H242	1.58	0.85
31:f:6040:HEM:HBB2	31:f:6040:HEM:HMB2	1.58	0.85
18:y:5042:ARG:HB3	18:y:5043:ARG:HH11	1.40	0.85
11:L:14:ARG:HA	12:M:26:TYR:CE1	2.10	0.85
22:a:6006:CLA:C17	25:d:6050:BCR:H282	2.07	0.85
2:b:5065:PHE:CZ	22:b:6012:CLA:HMA3	2.11	0.85
22:b:6020:CLA:H102	22:b:6020:CLA:C16	2.03	0.85
22:c:6035:CLA:C9	25:k:6052:BCR:H402	2.06	0.85
24:d:6042:PQ9:H392	28:l:6061:MGE:H241	1.58	0.85
22:B:1022:CLA:H93	22:B:1022:CLA:C13	2.05	0.85
23:D:1039:PHO:HMA2	22:D:1004:CLA:C14	2.06	0.85
13:O:179:THR:HG22	13:O:180:ALA:N	1.92	0.85
2:b:5191:ASN:HD21	7:h:5060:VAL:HA	1.39	0.85
1:A:259:ILE:HD13	24:A:1043:PQ9:H242	1.58	0.85
1:A:325:ASN:HD22	1:A:328:MET:HE3	1.39	0.85
25:b:6047:BCR:H403	25:b:6047:BCR:H372	1.56	0.85
3:c:5050:LEU:HD23	3:c:5050:LEU:O	1.76	0.85
22:c:6028:CLA:H102	29:c:6056:DGD:HAS2	1.57	0.85
22:c:6033:CLA:C7	22:c:6033:CLA:C2	2.54	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5046:PRO:HB2	13:o:5266:TYR:CD2	2.12	0.85
2:B:52:LEU:HD22	2:B:311:PHE:HD1	1.41	0.85
22:C:1029:CLA:HMD1	22:C:1031:CLA:HAB	1.59	0.85
13:O:132:VAL:HG23	13:O:144:LEU:CD2	2.07	0.85
2:b:5133:LEU:HD23	2:b:5138:MET:HE1	1.57	0.85
13:o:5132:VAL:HG23	13:o:5144:LEU:CD2	2.07	0.85
1:A:52:PHE:CD2	1:A:71:LEU:HD11	2.11	0.85
29:C:1055:DGD:HBF1	29:C:1055:DGD:HBG2	1.58	0.85
6:F:15:ILE:HG13	6:F:16:PHE:HD1	1.41	0.85
25:T:6048:BCR:HC7	22:b:6014:CLA:H111	1.57	0.85
22:b:6021:CLA:C10	22:b:6021:CLA:C14	2.34	0.85
22:b:6022:CLA:H93	22:b:6022:CLA:C13	2.05	0.85
22:k:6034:CLA:C4	22:k:6034:CLA:C7	2.49	0.85
2:B:65:PHE:CZ	22:B:1012:CLA:CMA	2.58	0.85
3:C:50:LEU:CD2	3:C:51:GLY:N	2.40	0.85
1:a:5058:VAL:HG12	1:a:5060:ILE:H	1.42	0.85
1:a:5149:ALA:HB3	1:a:5150:PRO:HD3	1.58	0.85
3:c:5406:SER:HB3	29:c:6056:DGD:HE1	1.59	0.85
2:B:3:LEU:HB3	11:L:9:PRO:O	1.77	0.85
22:B:1012:CLA:CBB	22:B:1015:CLA:CBB	2.55	0.85
22:C:1033:CLA:HMA2	22:K:1034:CLA:CAC	2.05	0.85
1:a:5116:ILE:HD11	1:a:5158:PHE:HB3	1.59	0.85
2:b:5463:PHE:HE1	22:b:6016:CLA:HBB1	1.42	0.85
22:b:6011:CLA:HMD1	22:b:6013:CLA:H42	1.59	0.85
7:H:43:LEU:HD21	17:X:19:PHE:CE1	2.12	0.84
12:M:8:PHE:HB3	12:m:5009:ILE:HG12	1.59	0.84
13:O:176:SER:HB3	13:O:216:PHE:HE2	1.41	0.84
18:Y:42:ARG:CB	18:Y:43:ARG:HH11	1.90	0.84
2:b:5055:MET:HE1	2:b:5080:ILE:HD13	1.58	0.84
22:C:1030:CLA:HED2	22:C:1030:CLA:CAD	2.07	0.84
10:K:33:PHE:O	10:K:33:PHE:CD2	2.30	0.84
1:a:5077:ILE:HD11	14:t:5006:TYR:HB3	1.58	0.84
1:a:5301:ASN:HD22	3:c:5407:VAL:HG11	1.41	0.84
2:b:5149:LEU:HG	22:b:6011:CLA:CBC	2.05	0.84
4:d:5184:PHE:HE2	4:d:5188:PHE:HD1	1.23	0.84
6:f:5028:VAL:HB	6:f:5029:PRO:HD3	1.58	0.84
20:z:5023:VAL:HG13	20:z:5027:TYR:CE2	2.12	0.84
2:B:149:LEU:HG	22:B:1011:CLA:CBC	2.05	0.84
3:C:406:SER:HB3	29:C:1056:DGD:HE1	1.59	0.84
22:D:1004:CLA:H201	28:D:1059:MGE:H8A1	1.58	0.84
6:F:19:ARG:HH22	31:F:1040:HEM:HAC	1.39	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5463:PHE:CE1	22:b:6016:CLA:HBB1	2.12	0.84
3:c:5050:LEU:CD2	3:c:5051:GLY:N	2.40	0.84
25:d:6050:BCR:H383	25:d:6050:BCR:C23	1.97	0.84
7:h:5043:LEU:HD21	17:x:5019:PHE:CE1	2.12	0.84
25:h:6049:BCR:HC8	25:h:6049:BCR:H311	1.57	0.84
18:y:5042:ARG:CB	18:y:5043:ARG:HH11	1.90	0.84
22:C:1025:CLA:H91	25:C:1054:BCR:H373	1.56	0.84
12:M:9:ILE:CD1	12:m:5009:ILE:HD11	2.07	0.84
1:a:5052:PHE:CD2	1:a:5071:LEU:HD11	2.10	0.84
23:a:6038:PHO:H2A	23:a:6038:PHO:O1D	1.77	0.84
3:c:5229:ASN:HD22	3:c:5229:ASN:N	1.73	0.84
4:d:5088:SER:HA	7:h:5050:ASN:ND2	1.93	0.84
23:d:6039:PHO:CHD	23:d:6039:PHO:HBC2	2.06	0.84
1:A:291:SER:HB3	3:C:431:PHE:CE1	2.13	0.84
22:C:1037:CLA:HHD	22:C:1037:CLA:CBC	2.06	0.84
25:b:6047:BCR:H371	25:b:6047:BCR:H392	1.32	0.84
29:c:6056:DGD:C6D	29:c:6056:DGD:C5E	2.50	0.84
1:a:5258:LEU:HD12	4:d:5128:ARG:NH2	1.91	0.84
3:c:5049:LEU:H	3:c:5049:LEU:CD1	1.90	0.84
18:y:5043:ARG:CG	18:y:5044:GLY:H	1.87	0.84
1:A:338:ASN:O	1:A:339:PHE:CG	2.30	0.84
23:a:6038:PHO:H202	22:d:6005:CLA:CMB	2.07	0.84
2:b:5220:ARG:HD2	7:h:5020:LYS:O	1.76	0.84
2:b:5460:LEU:O	2:b:5460:LEU:HD23	1.77	0.84
22:b:6019:CLA:C19	22:b:6021:CLA:H72	2.07	0.84
22:b:6022:CLA:H142	22:b:6022:CLA:C6	1.98	0.84
22:b:6023:CLA:H143	22:b:6024:CLA:H61	1.57	0.84
23:d:6039:PHO:HMA2	22:d:6004:CLA:C14	2.06	0.84
1:A:77:ILE:HD11	14:T:6:TYR:HB3	1.58	0.84
22:C:1031:CLA:C14	25:C:1054:BCR:H362	2.08	0.84
22:C:1033:CLA:H203	22:C:1033:CLA:H152	1.59	0.84
22:b:6009:CLA:CAA	25:h:6049:BCR:H363	2.08	0.84
23:A:1038:PHO:H2A	23:A:1038:PHO:O1D	1.77	0.84
22:B:1016:CLA:C2	22:H:1017:CLA:C9	2.56	0.84
4:D:198:MET:HB3	22:D:1005:CLA:HED2	1.60	0.84
2:b:5003:LEU:HB3	11:l:5009:PRO:O	1.77	0.84
22:b:6011:CLA:H12	22:b:6013:CLA:C9	2.06	0.84
29:c:6055:DGD:HBF1	29:c:6055:DGD:HBG2	1.58	0.84
23:d:6039:PHO:HMA3	22:d:6004:CLA:H143	1.57	0.84
22:k:6034:CLA:H71	22:k:6034:CLA:H43	1.56	0.84
2:B:460:LEU:HD23	2:B:460:LEU:O	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1019:CLA:C19	22:B:1021:CLA:H72	2.07	0.84
22:B:1021:CLA:HED3	22:B:1021:CLA:H2	1.60	0.84
4:D:184:PHE:HE2	4:D:188:PHE:HD1	1.23	0.84
24:D:1042:PQ9:H401	11:L:30:LEU:HD12	1.58	0.84
11:L:24:ILE:HD13	12:M:18:PRO:CG	2.08	0.84
2:b:5052:LEU:HD22	2:b:5311:PHE:HD1	1.41	0.84
22:b:6009:CLA:HAA1	22:b:6009:CLA:HED3	1.35	0.84
22:c:6030:CLA:HED2	22:c:6030:CLA:CAD	2.07	0.84
29:c:6057:DGD:HB82	28:d:6059:MGE:H8B2	1.60	0.84
22:d:6004:CLA:H201	28:d:6059:MGE:H8A1	1.58	0.84
22:k:6034:CLA:C7	22:k:6034:CLA:H41	2.08	0.84
13:o:5176:SER:HB3	13:o:5216:PHE:CE2	2.13	0.84
1:A:116:ILE:HD11	1:A:158:PHE:HB3	1.58	0.83
2:B:220:ARG:HD2	7:H:20:LYS:O	1.76	0.83
2:B:463:PHE:CE1	22:B:1016:CLA:HBB1	2.12	0.83
22:B:1011:CLA:H12	22:B:1013:CLA:C9	2.06	0.83
22:B:1021:CLA:H41	28:B:1060:MGE:H242	1.60	0.83
3:C:56:HIS:C	3:C:58:GLY:N	2.31	0.83
3:C:229:ASN:HD22	3:C:229:ASN:N	1.73	0.83
22:C:1033:CLA:C2	22:C:1033:CLA:H71	2.07	0.83
15:U:61:VAL:HG12	15:U:75:LEU:HD23	1.58	0.83
22:b:6012:CLA:CBB	22:b:6015:CLA:CBB	2.55	0.83
22:c:6031:CLA:C14	25:c:6054:BCR:H362	2.08	0.83
2:B:463:PHE:HE1	22:B:1016:CLA:HBB1	1.42	0.83
16:V:135:GLU:O	16:V:139:VAL:HG23	1.78	0.83
20:Z:23:VAL:HG13	20:Z:27:TYR:CE2	2.12	0.83
1:A:160:ILE:HG21	3:C:431:PHE:HE1	1.44	0.83
2:B:264:PRO:CG	2:B:267:LEU:HB2	2.09	0.83
22:B:1011:CLA:HMD1	22:B:1013:CLA:H42	1.59	0.83
3:c:5050:LEU:HD23	3:c:5051:GLY:N	1.91	0.83
4:d:5148:ALA:HB1	4:d:5279:LEU:HD13	1.60	0.83
10:k:5035:LEU:HA	10:k:5038:VAL:HG23	1.59	0.83
2:B:55:MET:HE1	2:B:80:ILE:HD13	1.58	0.83
7:H:6:TRP:O	7:H:10:ILE:HG13	1.79	0.83
9:J:31:GLY:O	9:J:35:GLY:HA3	1.78	0.83
3:c:5042:LEU:HD11	3:c:5049:LEU:HD13	1.61	0.83
22:c:6027:CLA:C15	25:z:6053:BCR:H332	2.07	0.83
7:h:5006:TRP:O	7:h:5010:ILE:HG13	1.79	0.83
10:k:5011:LEU:HD11	10:k:5022:VAL:HG21	1.58	0.83
14:t:5001:MET:O	14:t:5004:ILE:HG23	1.77	0.83
1:A:301:ASN:HD22	3:C:407:VAL:HG11	1.41	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1009:CLA:CAA	25:H:1049:BCR:H363	2.08	0.83
25:B:1047:BCR:H403	25:B:1047:BCR:H372	1.56	0.83
13:O:176:SER:HB3	13:O:216:PHE:CE2	2.13	0.83
14:T:1:MET:O	14:T:4:ILE:HG23	1.77	0.83
1:a:5278:TRP:CE3	1:a:5278:TRP:HA	2.13	0.83
22:d:6008:CLA:HMC3	22:d:6008:CLA:HBC2	1.60	0.83
9:j:5031:GLY:O	9:j:5035:GLY:HA3	1.78	0.83
26:A:1063:LHG:H161	26:A:1063:LHG:C12	2.05	0.83
22:B:1022:CLA:H142	22:B:1022:CLA:C6	1.98	0.83
3:C:42:LEU:CD1	3:C:49:LEU:HD11	2.09	0.83
23:D:1039:PHO:HBC2	23:D:1039:PHO:CHD	2.06	0.83
22:K:1034:CLA:C7	22:K:1034:CLA:H41	2.08	0.83
1:a:5103:ASP:HA	1:a:5106:LEU:HD12	1.58	0.83
22:b:6019:CLA:HBA1	22:b:6019:CLA:CHA	2.07	0.83
11:l:5024:ILE:HD13	12:m:5018:PRO:CG	2.08	0.83
24:D:1042:PQ9:H392	28:L:1061:MGE:H241	1.58	0.83
2:b:5264:PRO:CG	2:b:5267:LEU:HB2	2.09	0.83
22:b:6011:CLA:CAD	22:b:6013:CLA:C1	2.57	0.83
3:c:5318:LEU:CD2	3:c:5328:VAL:HG11	2.09	0.83
24:d:6042:PQ9:H401	11:l:5030:LEU:HD12	1.58	0.83
23:A:1038:PHO:H202	22:D:1005:CLA:CMB	2.08	0.83
22:C:1027:CLA:C15	25:Z:1053:BCR:H332	2.07	0.83
22:C:1032:CLA:C15	10:K:33:PHE:CZ	2.48	0.83
9:J:21:VAL:CG1	9:J:22:ILE:HD12	2.09	0.83
28:b:6060:MGE:C3B	28:b:6060:MGE:C7B	2.57	0.83
22:c:6033:CLA:H203	22:c:6033:CLA:H152	1.59	0.83
28:d:6059:MGE:H251	28:d:6059:MGE:H212	1.56	0.83
10:k:5033:PHE:HD1	10:k:5033:PHE:O	1.62	0.83
14:t:5018:PHE:HA	25:t:1046:BCR:C33	2.08	0.83
1:A:184:ILE:HG12	4:D:186:GLN:HE21	1.44	0.83
2:B:7:ARG:HH11	2:B:7:ARG:CG	1.91	0.83
22:B:1022:CLA:C6	22:B:1022:CLA:H143	2.09	0.83
3:C:185:LEU:HD12	3:C:230:LEU:HD22	1.59	0.83
22:C:1025:CLA:H141	22:C:1031:CLA:CMB	2.05	0.83
14:T:4:ILE:HD13	14:T:5:THR:H	1.40	0.83
1:a:5291:SER:HB3	3:c:5431:PHE:CE1	2.13	0.83
3:c:5185:LEU:HD12	3:c:5230:LEU:HD22	1.59	0.83
22:D:1008:CLA:C14	22:D:1008:CLA:H18	2.07	0.83
1:a:5317:TRP:N	4:d:5063:LEU:HD21	1.94	0.83
20:z:5028:ALA:O	20:z:5030:PRO:HD3	1.79	0.83
1:A:278:TRP:CE3	1:A:278:TRP:HA	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:318:LEU:CD2	3:C:328:VAL:HG11	2.08	0.82
25:h:6049:BCR:H23C	25:h:6049:BCR:H392	0.83	0.82
3:C:429:SER:O	3:C:432:VAL:HG12	1.80	0.82
4:D:58:TRP:HE1	5:E:64:PRO:HD2	1.45	0.82
25:H:1049:BCR:H23C	25:H:1049:BCR:H392	0.83	0.82
14:T:23:PHE:CZ	2:b:5112:CYS:SG	2.72	0.82
22:b:6016:CLA:C2	22:h:6017:CLA:C9	2.56	0.82
3:c:5056:HIS:C	3:c:5058:GLY:N	2.31	0.82
1:A:58:VAL:HG12	1:A:60:ILE:H	1.42	0.82
26:A:1063:LHG:H291	22:C:1032:CLA:H71	1.60	0.82
22:D:1008:CLA:H193	22:D:1008:CLA:H141	1.60	0.82
4:d:5198:MET:CB	22:d:6005:CLA:HED2	2.10	0.82
2:B:36:SER:CB	25:t:1046:BCR:H401	2.09	0.82
4:D:148:ALA:HB1	4:D:279:LEU:HD13	1.60	0.82
10:K:28:ILE:HD13	10:K:31:LEU:HD12	1.60	0.82
14:T:21:ILE:HD12	25:T:6046:BCR:HC42	1.61	0.82
2:b:5488:PRO:O	2:b:5489:GLU:HB3	1.78	0.82
22:c:6029:CLA:HMD1	22:c:6031:CLA:HAB	1.59	0.82
22:d:6008:CLA:H193	22:d:6008:CLA:H141	1.60	0.82
1:A:149:ALA:HB3	1:A:150:PRO:HD3	1.58	0.82
22:B:1011:CLA:CAD	22:B:1013:CLA:C1	2.57	0.82
22:C:1033:CLA:C2	22:C:1033:CLA:C7	2.54	0.82
31:F:1040:HEM:HMB2	31:F:1040:HEM:HBB2	1.58	0.82
22:a:6003:CLA:C14	23:a:6038:PHO:C8	2.58	0.82
2:b:5012:LEU:HD13	22:b:6020:CLA:HMC2	1.62	0.82
2:b:5224:ARG:HG2	7:h:5025:TRP:NE1	1.95	0.82
22:b:6009:CLA:C14	22:b:6009:CLA:C10	2.55	0.82
3:C:49:LEU:CD1	3:C:49:LEU:H	1.91	0.82
3:C:315:MET:HE3	3:C:315:MET:HA	1.61	0.82
29:C:1056:DGD:C6D	29:C:1056:DGD:C5E	2.50	0.82
1:a:5223:LEU:HD21	4:d:5265:ARG:HG2	1.62	0.82
4:d:5198:MET:HB3	22:d:6005:CLA:HED2	1.60	0.82
3:C:89:ILE:HG12	3:C:111:PHE:HD2	1.45	0.82
2:b:5012:LEU:HD22	2:b:5019:LEU:HD13	1.61	0.82
22:b:6022:CLA:HHD	22:b:6022:CLA:CBC	2.09	0.82
22:c:6031:CLA:OBD	22:c:6033:CLA:C12	2.28	0.82
1:A:279:ARG:HB3	4:D:212:ALA:HB2	1.60	0.82
23:A:1038:PHO:HBC3	23:A:1038:PHO:CHD	2.10	0.82
2:B:224:ARG:HG2	7:H:25:TRP:NE1	1.95	0.82
2:B:301:ALA:O	2:B:304:ALA:HB3	1.80	0.82
12:M:9:ILE:HD11	12:m:5009:ILE:CD1	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5007:ARG:HH11	2:b:5007:ARG:CG	1.91	0.82
10:k:5028:ILE:HD13	10:k:5031:LEU:HD12	1.60	0.82
16:v:5135:GLU:O	16:v:5139:VAL:HG23	1.79	0.82
2:B:80:ILE:HD11	2:B:93:PHE:HZ	1.45	0.82
13:O:45:CYS:HB2	13:O:46:PRO:HD2	1.62	0.82
22:c:6033:CLA:H91	22:c:6036:CLA:HAA1	1.62	0.82
29:c:6055:DGD:HB21	29:c:6055:DGD:HA21	1.62	0.82
22:A:1003:CLA:C14	23:A:1038:PHO:C8	2.58	0.82
22:A:1007:CLA:H42	22:C:1029:CLA:H191	1.60	0.82
2:B:12:LEU:HD13	22:B:1020:CLA:HMC2	1.62	0.82
2:B:12:LEU:HD22	2:B:19:LEU:HD13	1.61	0.82
3:C:117:VAL:CG1	3:C:118:HIS:N	2.43	0.82
1:a:5216:GLY:HA2	4:d:5268:HIS:O	1.80	0.82
22:b:6022:CLA:C6	22:b:6022:CLA:H143	2.09	0.82
9:j:5021:VAL:CG1	9:j:5022:ILE:HD12	2.09	0.82
22:A:1006:CLA:H172	25:D:1050:BCR:H272	1.62	0.81
22:B:1009:CLA:CED	22:B:1009:CLA:C2A	2.53	0.81
2:b:5359:MET:HG3	2:b:5359:MET:O	1.78	0.81
22:c:6030:CLA:CBC	22:c:6030:CLA:CHD	2.58	0.81
22:d:6008:CLA:C14	22:d:6008:CLA:H18	2.07	0.81
10:k:5031:LEU:O	10:k:5034:ALA:HB3	1.81	0.81
1:A:120:LEU:HD21	1:A:155:PHE:HA	1.62	0.81
3:C:92:ILE:H	3:C:92:ILE:HD12	1.44	0.81
3:C:263:ALA:CB	3:C:264:PHE:HE2	1.93	0.81
4:D:36:LEU:HD23	4:D:37:LEU:N	1.95	0.81
13:O:83:LYS:HE3	2:b:5049:ASP:CB	2.09	0.81
2:b:5298:LEU:O	2:b:5301:ALA:HB3	1.80	0.81
22:b:6009:CLA:C8	22:b:6009:CLA:H142	2.09	0.81
22:b:6011:CLA:HED2	22:b:6012:CLA:HED2	1.61	0.81
22:b:6021:CLA:HED3	22:b:6021:CLA:H2	1.60	0.81
22:b:6023:CLA:H152	22:b:6024:CLA:CHB	2.10	0.81
25:b:6045:BCR:H383	25:b:6045:BCR:C23	2.09	0.81
3:c:5049:LEU:HD22	3:c:5052:ALA:CB	2.10	0.81
14:t:5004:ILE:HD13	14:t:5005:THR:H	1.40	0.81
2:B:488:PRO:O	2:B:489:GLU:HB3	1.78	0.81
22:B:1023:CLA:H152	22:B:1024:CLA:CHB	2.10	0.81
28:B:1060:MGE:C3B	28:B:1060:MGE:C7B	2.57	0.81
3:C:48:LYS:HG3	3:C:49:LEU:HD12	1.62	0.81
3:C:128:GLY:HA3	22:C:1037:CLA:HAC2	1.61	0.81
1:a:5337:HIS:O	4:d:5351:ALA:CB	2.29	0.81
22:a:6007:CLA:H42	22:c:6029:CLA:H191	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:b:6009:CLA:HMB3	25:h:6049:BCR:C27	1.98	0.81
3:c:5107:ASP:HB3	3:c:5110:PRO:CD	2.10	0.81
3:c:5117:VAL:CG1	3:c:5118:HIS:N	2.43	0.81
3:c:5315:MET:HA	3:c:5315:MET:HE3	1.61	0.81
22:c:6031:CLA:H141	25:c:6054:BCR:C36	2.10	0.81
29:c:6056:DGD:C9B	29:c:6056:DGD:HBF1	2.11	0.81
4:d:5036:LEU:HD23	4:d:5037:LEU:N	1.95	0.81
2:B:359:MET:HG3	2:B:359:MET:O	1.78	0.81
22:D:1008:CLA:HMC3	22:D:1008:CLA:HBC2	1.60	0.81
22:K:1034:CLA:H143	22:K:1034:CLA:C10	2.06	0.81
13:O:141:ARG:HG2	13:O:141:ARG:HH11	1.44	0.81
1:a:5120:LEU:HD21	1:a:5155:PHE:HA	1.62	0.81
23:a:6038:PHO:HBC3	23:a:6038:PHO:HHD	1.62	0.81
3:c:5092:ILE:H	3:c:5092:ILE:HD12	1.44	0.81
3:c:5333:GLY:N	3:c:5338:GLY:HA2	1.96	0.81
22:d:6008:CLA:C14	22:d:6008:CLA:C17	2.59	0.81
13:o:5045:CYS:HB2	13:o:5046:PRO:HD2	1.62	0.81
13:o:5223:ILE:HG22	13:o:5243:SER:HB3	1.62	0.81
4:D:198:MET:CB	22:D:1005:CLA:HED2	2.10	0.81
11:L:8:GLN:NE2	11:L:8:GLN:H	1.78	0.81
1:a:5259:ILE:N	4:d:5128:ARG:HH22	1.79	0.81
22:b:6012:CLA:HHD	22:b:6012:CLA:HBC3	1.60	0.81
22:c:6027:CLA:H121	22:c:6027:CLA:C18	2.11	0.81
22:c:6033:CLA:C2	22:c:6033:CLA:H71	2.07	0.81
25:k:6052:BCR:H383	25:k:6052:BCR:H372	1.62	0.81
13:o:5172:PHE:CD1	13:o:5221:GLY:HA3	2.15	0.81
1:A:259:ILE:N	4:D:128:ARG:HH22	1.79	0.81
2:B:174:LEU:HD23	2:B:266:GLU:CG	2.10	0.81
2:B:298:LEU:O	2:B:301:ALA:HB3	1.80	0.81
22:B:1012:CLA:HBC3	22:B:1012:CLA:HHD	1.60	0.81
2:b:5125:ASP:OD2	7:h:5018:TYR:HB2	1.81	0.81
3:c:5141:GLU:O	3:c:5144:SER:HB2	1.81	0.81
4:d:5139:ARG:NH1	4:d:5265:ARG:NH2	2.28	0.81
3:C:293:ASN:HD21	3:C:295:THR:HB	1.44	0.81
24:D:1042:PQ9:H342	24:D:1042:PQ9:C30	2.10	0.81
13:O:172:PHE:CD1	13:O:221:GLY:HA3	2.14	0.81
25:T:6046:BCR:H401	2:b:5036:SER:CB	2.09	0.81
1:a:5184:ILE:HG12	4:d:5186:GLN:HE21	1.44	0.81
22:a:6003:CLA:CED	22:a:6003:CLA:H2A	2.11	0.81
24:d:6042:PQ9:H342	24:d:6042:PQ9:C30	2.10	0.81
25:h:6049:BCR:H292	17:x:5016:LEU:HD11	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l:5008:GLN:NE2	11:l:5008:GLN:H	1.78	0.81
22:A:1006:CLA:CBC	4:D:182:LEU:HD21	2.11	0.81
22:B:1011:CLA:C2D	22:B:1013:CLA:C4	2.59	0.81
3:C:49:LEU:HD22	3:C:52:ALA:CB	2.10	0.81
22:D:1008:CLA:C14	22:D:1008:CLA:C17	2.59	0.81
22:a:6006:CLA:C16	25:d:6050:BCR:H272	2.11	0.81
2:b:5174:LEU:HD23	2:b:5266:GLU:CG	2.10	0.81
3:c:5293:ASN:HD21	3:c:5295:THR:HB	1.44	0.81
4:d:5058:TRP:HE1	5:e:5064:PRO:HD2	1.45	0.81
1:A:317:TRP:N	4:D:63:LEU:HD21	1.94	0.81
22:B:1009:CLA:C14	22:B:1009:CLA:C10	2.55	0.81
22:B:1010:CLA:H12	22:B:1010:CLA:CBD	2.11	0.81
25:C:1054:BCR:C40	25:C:1054:BCR:C23	2.30	0.81
10:K:31:LEU:HB3	25:K:1051:BCR:H14C	1.63	0.81
13:O:223:ILE:HG22	13:O:243:SER:HB3	1.62	0.81
20:Z:28:ALA:O	20:Z:30:PRO:HD3	1.79	0.81
1:a:5129:ARG:CZ	4:d:5256:ILE:HD12	2.11	0.81
22:b:6022:CLA:CGA	22:b:6022:CLA:C4	2.59	0.81
22:b:6023:CLA:C13	22:b:6024:CLA:CMA	2.56	0.81
3:c:5128:GLY:HA3	22:c:6037:CLA:HAC2	1.61	0.81
3:c:5305:THR:HG22	3:c:5308:GLU:HB2	1.62	0.81
3:c:5428:THR:HG23	3:c:5429:SER:N	1.94	0.81
24:d:6042:PQ9:H301	24:d:6042:PQ9:C34	2.06	0.81
1:A:278:TRP:HA	1:A:278:TRP:HE3	1.46	0.81
3:C:333:GLY:N	3:C:338:GLY:HA2	1.96	0.81
22:C:1033:CLA:H91	22:C:1036:CLA:HAA1	1.62	0.81
29:C:1056:DGD:C9B	29:C:1056:DGD:HBF1	2.11	0.81
4:d:5120:PHE:HA	4:d:5123:ILE:HD12	1.62	0.81
25:k:6052:BCR:H371	25:k:6052:BCR:C27	2.09	0.81
1:A:196:PRO:HA	1:A:199:GLN:HG3	1.62	0.80
2:B:103:LEU:CB	22:B:1014:CLA:H92	2.12	0.80
2:B:115:TRP:O	2:B:118:TRP:HB3	1.81	0.80
2:B:264:PRO:HG2	2:B:267:LEU:HB2	1.63	0.80
2:B:362:PHE:CZ	27:D:1068:IOD:I	3.04	0.80
3:C:185:LEU:HG	3:C:199:ILE:HD11	1.63	0.80
3:C:428:THR:HG23	3:C:429:SER:H	1.46	0.80
3:C:428:THR:HG23	3:C:429:SER:N	1.94	0.80
2:b:5098:LEU:HD13	2:b:5098:LEU:O	1.81	0.80
3:c:5263:ALA:CB	3:c:5264:PHE:HE2	1.93	0.80
25:c:6054:BCR:H23C	25:c:6054:BCR:H403	0.82	0.80
13:o:5141:ARG:HG2	13:o:5141:ARG:HH11	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:16:ARG:HA	1:A:19:ASN:HD21	1.46	0.80
22:A:1006:CLA:C16	25:D:1050:BCR:H272	2.11	0.80
25:A:1044:BCR:H371	25:A:1044:BCR:H403	1.31	0.80
22:B:1023:CLA:C13	22:B:1024:CLA:CMA	2.56	0.80
1:a:5160:ILE:HG21	3:c:5431:PHE:HE1	1.44	0.80
17:x:5043:ILE:HG22	17:x:5043:ILE:O	1.80	0.80
1:A:129:ARG:CZ	4:D:256:ILE:HD12	2.11	0.80
3:C:397:THR:OG1	3:C:398:HIS:N	2.13	0.80
22:C:1035:CLA:CBB	22:K:1034:CLA:HMA2	2.11	0.80
24:a:6043:PQ9:C45	28:d:6059:MGE:CAA	2.57	0.80
22:c:6035:CLA:CBB	22:k:6034:CLA:HMA2	2.11	0.80
29:c:6057:DGD:HBG2	29:c:6057:DGD:CEB	2.10	0.80
15:u:5083:THR:HG22	15:u:5084:VAL:H	1.47	0.80
2:B:98:LEU:O	2:B:98:LEU:HD13	1.81	0.80
29:C:1055:DGD:HB21	29:C:1055:DGD:HA21	1.62	0.80
22:b:6009:CLA:H8	22:b:6009:CLA:H142	1.62	0.80
22:b:6021:CLA:H41	28:b:6060:MGE:H242	1.60	0.80
23:A:1038:PHO:HBC3	23:A:1038:PHO:HHD	1.62	0.80
2:B:332:LYS:HB3	2:B:444:ARG:NH1	1.96	0.80
3:C:107:ASP:HB3	3:C:110:PRO:CD	2.10	0.80
3:C:141:GLU:O	3:C:144:SER:HB2	1.81	0.80
29:C:1056:DGD:HAV1	29:C:1057:DGD:HA82	1.64	0.80
7:H:38:PHE:HB2	25:H:1049:BCR:H10C	1.64	0.80
22:a:6006:CLA:H172	25:d:6050:BCR:H272	1.62	0.80
2:b:5005:TRP:CA	2:b:5008:VAL:HG13	2.11	0.80
2:b:5099:ALA:HB1	22:b:6014:CLA:H42	1.64	0.80
3:c:5429:SER:O	3:c:5432:VAL:HG12	1.80	0.80
22:B:1009:CLA:C1A	22:B:1009:CLA:O1A	2.30	0.80
25:B:1045:BCR:H23C	25:B:1045:BCR:C38	2.06	0.80
3:C:49:LEU:HD11	22:C:1035:CLA:CMA	2.11	0.80
22:C:1029:CLA:O1A	22:C:1029:CLA:CHA	2.30	0.80
2:b:5115:TRP:O	2:b:5118:TRP:HB3	1.81	0.80
22:b:6022:CLA:O1D	22:b:6022:CLA:CGA	2.30	0.80
3:c:5049:LEU:HD11	22:c:6035:CLA:CMA	2.11	0.80
3:c:5128:GLY:CA	22:c:6037:CLA:HAC2	2.12	0.80
7:h:5030:LEU:HD12	7:h:5033:VAL:HG21	1.64	0.80
22:A:1003:CLA:CED	22:A:1003:CLA:H2A	2.11	0.80
29:B:1058:DGD:C6B	29:B:1058:DGD:CAB	2.55	0.80
22:C:1025:CLA:HHB	22:C:1025:CLA:C1	2.06	0.80
22:C:1029:CLA:H43	25:C:1054:BCR:H321	1.63	0.80
22:C:1033:CLA:CMA	22:K:1034:CLA:CAC	2.60	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5103:LEU:CB	22:b:6014:CLA:H92	2.11	0.80
3:c:5042:LEU:HD11	3:c:5049:LEU:HD11	1.64	0.80
22:c:6033:CLA:CMA	22:k:6034:CLA:CAC	2.60	0.80
29:c:6055:DGD:CIB	29:c:6055:DGD:CEB	2.58	0.80
2:B:314:TYR:CE2	2:B:316:GLY:HA3	2.17	0.80
22:C:1031:CLA:H141	25:C:1054:BCR:C36	2.10	0.80
25:C:1052:BCR:H371	25:C:1052:BCR:C27	2.09	0.80
1:a:5216:GLY:CA	4:d:5268:HIS:O	2.29	0.80
1:a:5325:ASN:HA	1:a:5328:MET:HE3	1.62	0.80
22:b:6012:CLA:C1D	22:b:6020:CLA:H202	2.12	0.80
22:b:6022:CLA:C4D	22:b:6022:CLA:C1	2.60	0.80
1:A:325:ASN:HA	1:A:328:MET:HE3	1.62	0.80
22:C:1027:CLA:H121	22:C:1027:CLA:C18	2.11	0.80
29:C:1057:DGD:HB82	28:D:1059:MGE:H8B2	1.60	0.80
22:a:6006:CLA:CBC	4:d:5182:LEU:HD21	2.11	0.80
22:b:6010:CLA:H151	29:b:6058:DGD:HA82	1.64	0.80
29:c:6056:DGD:HAV1	29:c:6057:DGD:HA82	1.64	0.80
4:d:5153:PHE:HB2	22:d:6004:CLA:H41	1.64	0.80
16:v:5045:ILE:HD12	16:v:5045:ILE:N	1.96	0.80
22:B:1022:CLA:CGA	22:B:1022:CLA:C4	2.59	0.80
3:C:396:MET:HE1	16:V:74:THR:HA	1.63	0.80
4:D:88:SER:HA	7:H:50:ASN:ND2	1.93	0.80
13:O:141:ARG:HG2	13:O:141:ARG:NH1	1.96	0.80
23:a:6038:PHO:C9	22:d:6005:CLA:H18	2.11	0.80
2:b:5172:TYR:O	2:b:5174:LEU:CA	2.29	0.80
2:b:5468:TRP:HE1	22:b:6019:CLA:HED2	1.47	0.80
3:c:5048:LYS:HG3	3:c:5049:LEU:HD12	1.62	0.80
3:c:5307:PRO:HA	3:c:5358:PHE:CD1	2.17	0.80
22:c:6025:CLA:C2B	22:c:6025:CLA:H43	2.11	0.80
13:o:5243:SER:OG	13:o:5261:ILE:HB	1.82	0.80
22:B:1016:CLA:CHA	22:B:1016:CLA:O1A	2.30	0.79
3:C:128:GLY:CA	22:C:1037:CLA:HAC2	2.12	0.79
4:D:120:PHE:HA	4:D:123:ILE:HD12	1.62	0.79
5:E:13:ILE:HA	5:E:16:SER:HB2	1.64	0.79
7:H:43:LEU:HD21	17:X:19:PHE:CZ	2.16	0.79
15:U:28:ASN:HD22	15:U:54:PRO:HB2	1.46	0.79
16:V:45:ILE:HD12	16:V:45:ILE:N	1.96	0.79
1:a:5196:PRO:HA	1:a:5199:GLN:HG3	1.62	0.79
3:c:5089:ILE:HG12	3:c:5111:PHE:HD2	1.45	0.79
2:B:5:TRP:CA	2:B:8:VAL:HG13	2.11	0.79
22:B:1011:CLA:O1A	22:B:1011:CLA:C4	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1022:CLA:C4D	22:B:1022:CLA:C1	2.60	0.79
25:B:1045:BCR:H383	25:B:1045:BCR:C23	2.09	0.79
25:H:1049:BCR:H292	17:X:16:LEU:HD11	1.63	0.79
15:U:68:THR:HG23	15:U:70:ARG:H	1.45	0.79
1:a:5314:ILE:HD12	4:d:5058:TRP:CZ3	2.17	0.79
22:a:6006:CLA:H161	25:d:6050:BCR:H272	1.64	0.79
2:b:5105:GLY:HA2	25:b:6047:BCR:H402	1.64	0.79
2:b:5264:PRO:HG2	2:b:5267:LEU:HB2	1.63	0.79
22:b:6022:CLA:O1A	22:b:6022:CLA:C4	2.30	0.79
22:b:6023:CLA:C9	22:b:6024:CLA:H151	2.12	0.79
29:b:6058:DGD:C6B	29:b:6058:DGD:CAB	2.55	0.79
22:c:6025:CLA:H151	22:c:6031:CLA:H91	1.64	0.79
5:e:5013:ILE:HA	5:e:5016:SER:HB2	1.64	0.79
15:u:5068:THR:HG23	15:u:5070:ARG:H	1.45	0.79
29:C:1055:DGD:CIB	29:C:1055:DGD:CEB	2.58	0.79
18:Y:43:ARG:CD	18:Y:44:GLY:H	1.95	0.79
3:c:5396:MET:HE1	16:v:5074:THR:HA	1.63	0.79
4:d:5057:SER:CB	4:d:5079:SER:HB3	2.13	0.79
11:l:5021:LEU:HB2	14:t:5016:LEU:HD21	1.64	0.79
13:o:5179:THR:HG22	13:o:5180:ALA:N	1.92	0.79
1:A:314:ILE:HD12	4:D:58:TRP:CZ3	2.17	0.79
22:B:1022:CLA:O1D	22:B:1022:CLA:CGA	2.30	0.79
22:B:1022:CLA:O1A	22:B:1022:CLA:C4	2.30	0.79
22:C:1030:CLA:H172	22:C:1030:CLA:H122	1.62	0.79
25:C:1052:BCR:H383	25:C:1052:BCR:H372	1.61	0.79
7:H:30:LEU:HD12	7:H:33:VAL:HG21	1.64	0.79
20:Z:55:GLY:HA2	25:Z:1053:BCR:H311	1.65	0.79
1:a:5279:ARG:HB3	4:d:5212:ALA:HB2	1.64	0.79
2:b:5301:ALA:O	2:b:5304:ALA:HB3	1.80	0.79
22:b:6011:CLA:C2D	22:b:6013:CLA:C4	2.59	0.79
3:c:5161:LEU:HD23	3:c:5162:GLY:N	1.96	0.79
22:c:6029:CLA:CHA	22:c:6029:CLA:O1A	2.30	0.79
1:A:223:LEU:HD21	4:D:265:ARG:HG2	1.62	0.79
3:C:50:LEU:HD21	3:C:54:VAL:HG21	1.65	0.79
3:C:292:PHE:CD1	29:C:1055:DGD:HD1	2.18	0.79
3:C:305:THR:HG22	3:C:308:GLU:HB2	1.62	0.79
4:D:146:PHE:O	4:D:149:PRO:HD2	1.82	0.79
11:L:36:PHE:CE1	12:M:7:GLY:HA3	2.18	0.79
13:O:31:LEU:HD13	13:O:36:ILE:HD11	1.64	0.79
15:U:83:THR:HG22	15:U:84:VAL:H	1.47	0.79
25:b:6047:BCR:C12	25:b:6047:BCR:H341	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5220:GLY:O	3:c:5221:GLU:HG3	1.81	0.79
22:c:6031:CLA:HBC2	22:c:6031:CLA:CHD	2.11	0.79
11:l:5036:PHE:CE1	12:m:5007:GLY:HA3	2.18	0.79
1:A:224:ILE:HA	2:B:482:ILE:HG12	1.64	0.79
1:A:270:SER:HA	4:D:232:PHE:CZ	2.17	0.79
3:C:161:LEU:HD23	3:C:162:GLY:N	1.96	0.79
22:C:1025:CLA:C2B	22:C:1025:CLA:H43	2.11	0.79
26:a:6063:LHG:H291	22:c:6032:CLA:H71	1.64	0.79
22:b:6024:CLA:O2A	22:b:6024:CLA:H2A	1.83	0.79
22:c:6028:CLA:H91	29:c:6056:DGD:HBT1	1.65	0.79
4:d:5188:PHE:HE2	4:d:5326:ARG:HG2	1.47	0.79
5:e:5027:ILE:HB	5:e:5028:PRO:HD3	1.64	0.79
15:u:5051:LYS:HG3	15:u:5052:ASN:H	1.48	0.79
2:B:125:ASP:OD2	7:H:18:TYR:HB2	1.81	0.79
2:B:464:PHE:CZ	28:B:1060:MGE:H4B1	2.18	0.79
22:C:1029:CLA:CMA	22:C:1029:CLA:CBA	2.57	0.79
1:a:5016:ARG:HA	1:a:5019:ASN:HD21	1.46	0.79
23:a:6038:PHO:HBC3	23:a:6038:PHO:CHD	2.10	0.79
2:b:5314:TYR:CE2	2:b:5316:GLY:HA3	2.17	0.79
22:b:6011:CLA:O1A	22:b:6011:CLA:C4	2.30	0.79
22:b:6012:CLA:CMD	22:b:6020:CLA:H201	2.13	0.79
7:h:5043:LEU:HD21	17:x:5019:PHE:CZ	2.16	0.79
3:C:307:PRO:HA	3:C:358:PHE:CD1	2.17	0.79
22:C:1025:CLA:C15	22:C:1031:CLA:C9	2.49	0.79
4:D:57:SER:CB	4:D:79:SER:HB3	2.13	0.79
22:K:1034:CLA:H71	22:K:1034:CLA:H41	1.60	0.79
1:a:5270:SER:HA	4:d:5232:PHE:CZ	2.17	0.79
26:a:6063:LHG:H161	26:a:6063:LHG:C12	2.05	0.79
22:b:6010:CLA:H12	22:b:6010:CLA:CBD	2.11	0.79
22:b:6016:CLA:C16	22:d:6008:CLA:CMA	2.30	0.79
3:c:5185:LEU:HG	3:c:5199:ILE:HD11	1.63	0.79
2:B:468:TRP:HE1	22:B:1019:CLA:HED2	1.47	0.79
3:C:167:VAL:O	22:C:1036:CLA:H41	1.83	0.79
25:C:1054:BCR:H23C	25:C:1054:BCR:H403	0.82	0.79
16:V:70:GLY:HA3	16:V:156:TRP:O	1.83	0.79
17:X:43:ILE:HG22	17:X:43:ILE:O	1.80	0.79
3:c:5107:ASP:HB3	3:c:5110:PRO:HD2	1.65	0.79
1:A:339:PHE:HB3	1:A:340:PRO:HD2	1.64	0.79
23:A:1038:PHO:C9	22:D:1005:CLA:H18	2.11	0.79
22:B:1009:CLA:CBD	22:B:1010:CLA:HBB1	1.94	0.79
3:C:172:ALA:N	22:C:1025:CLA:CBC	2.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:C:1026:CLA:O1A	22:C:1026:CLA:C2	2.30	0.79
4:D:153:PHE:HB2	22:D:1004:CLA:H41	1.64	0.79
4:D:317:LYS:NZ	27:D:1064:IOD:I	2.85	0.79
23:D:1039:PHO:HMA3	22:D:1004:CLA:H143	1.57	0.79
1:a:5224:ILE:HA	2:b:5482:ILE:HG12	1.64	0.79
2:b:5332:LYS:HB3	2:b:5444:ARG:NH1	1.96	0.79
22:b:6012:CLA:CMB	22:b:6015:CLA:HBB1	2.13	0.79
22:b:6016:CLA:O1A	22:b:6016:CLA:CHA	2.30	0.79
3:c:5050:LEU:HD21	3:c:5054:VAL:HG21	1.65	0.79
3:c:5081:MET:HG3	3:c:5086:LEU:CD1	2.13	0.79
3:c:5351:PHE:CE2	3:c:5375:LEU:HD11	2.18	0.79
22:c:6029:CLA:CMA	22:c:6029:CLA:CBA	2.57	0.79
10:k:5028:ILE:HD11	18:y:5028:ILE:HD12	1.65	0.79
20:z:5046:LEU:O	20:z:5050:LEU:HB2	1.83	0.79
1:A:116:ILE:HG23	1:A:117:PHE:H	1.47	0.78
1:A:196:PRO:HG3	3:C:404:LEU:HD12	1.63	0.78
1:A:215:HIS:NE2	1:A:271:LEU:HD11	1.97	0.78
1:A:224:ILE:HA	2:B:482:ILE:CG1	2.13	0.78
2:B:99:ALA:HB1	22:B:1014:CLA:H42	1.64	0.78
22:B:1012:CLA:C1D	22:B:1020:CLA:H202	2.12	0.78
22:B:1012:CLA:CMD	22:B:1020:CLA:H201	2.13	0.78
22:B:1013:CLA:C3B	22:B:1014:CLA:H51	2.13	0.78
3:C:107:ASP:HB3	3:C:110:PRO:HD2	1.65	0.78
1:a:5224:ILE:HA	2:b:5482:ILE:CG1	2.13	0.78
2:b:5080:ILE:HD11	2:b:5093:PHE:HZ	1.45	0.78
22:b:6009:CLA:C1A	22:b:6009:CLA:O1A	2.30	0.78
22:b:6013:CLA:C3B	22:b:6014:CLA:H51	2.13	0.78
3:c:5167:VAL:O	22:c:6036:CLA:H41	1.83	0.78
4:d:5146:PHE:O	4:d:5149:PRO:HD2	1.82	0.78
15:u:5028:ASN:HD22	15:u:5054:PRO:HB2	1.46	0.78
16:v:5092:ARG:HH11	16:v:5092:ARG:HG3	1.48	0.78
25:B:1047:BCR:H341	25:B:1047:BCR:C12	2.12	0.78
3:C:220:GLY:O	3:C:221:GLU:HG3	1.81	0.78
22:C:1025:CLA:H151	22:C:1031:CLA:H91	1.64	0.78
22:C:1028:CLA:H91	29:C:1056:DGD:HBT1	1.65	0.78
22:C:1031:CLA:OBD	22:C:1033:CLA:C12	2.28	0.78
6:F:45:ARG:HA	6:F:45:ARG:NE	1.97	0.78
3:c:5171:GLY:CA	3:c:5174:LEU:HB2	2.11	0.78
3:c:5428:THR:HG23	3:c:5429:SER:H	1.46	0.78
22:k:6034:CLA:H143	22:k:6034:CLA:C10	2.06	0.78
22:B:1012:CLA:C2B	22:B:1015:CLA:CBB	2.62	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:397:THR:OG1	3:C:398:HIS:ND1	2.17	0.78
28:L:1061:MGE:O1B	28:L:1061:MGE:C1G	2.31	0.78
1:a:5091:LEU:HG	1:a:5166:GLY:O	1.83	0.78
23:a:6038:PHO:H201	22:d:6005:CLA:CMB	2.13	0.78
22:b:6012:CLA:C2B	22:b:6015:CLA:HBB2	2.14	0.78
22:c:6025:CLA:HMB2	25:c:6054:BCR:C25	2.14	0.78
22:c:6036:CLA:HMC3	22:c:6036:CLA:HBC2	1.65	0.78
4:d:5317:LYS:NZ	27:d:6064:IOD:I	2.85	0.78
7:h:5038:PHE:HB2	25:h:6049:BCR:H10C	1.64	0.78
2:B:105:GLY:HA2	25:B:1047:BCR:H402	1.64	0.78
2:B:108:PHE:O	2:B:111:ALA:HB3	1.83	0.78
22:B:1022:CLA:HHD	22:B:1022:CLA:CBC	2.09	0.78
1:a:5172:MET:HE3	1:a:5182:PHE:HD2	1.49	0.78
3:c:5420:VAL:HB	3:c:5425:TRP:HE1	1.49	0.78
18:y:5043:ARG:CD	18:y:5044:GLY:H	1.95	0.78
22:B:1012:CLA:C2B	22:B:1015:CLA:HBB2	2.14	0.78
22:C:1029:CLA:H42	22:C:1029:CLA:CHD	2.13	0.78
4:D:328:TRP:HZ3	16:V:161:VAL:HA	1.49	0.78
22:a:6007:CLA:HBA2	22:a:6007:CLA:HBD	1.64	0.78
2:b:5174:LEU:CD2	2:b:5312:TYR:OH	2.31	0.78
2:b:5464:PHE:CZ	28:b:6060:MGE:H4B1	2.18	0.78
3:c:5172:ALA:N	22:c:6025:CLA:CBC	2.46	0.78
22:c:6029:CLA:H43	25:c:6054:BCR:H321	1.63	0.78
1:A:143:ILE:HB	4:D:220:ASN:ND2	1.99	0.78
22:A:1007:CLA:H43	22:C:1029:CLA:C19	2.14	0.78
2:B:49:ASP:CB	13:o:5083:LYS:HE3	2.14	0.78
22:B:1023:CLA:C9	22:B:1024:CLA:H151	2.13	0.78
6:F:19:ARG:O	6:F:23:VAL:HG23	1.84	0.78
11:L:21:LEU:HB2	14:T:16:LEU:HD21	1.64	0.78
1:a:5196:PRO:HG3	3:c:5404:LEU:HD12	1.63	0.78
1:a:5278:TRP:HA	1:a:5278:TRP:HE3	1.46	0.78
22:b:6012:CLA:C2B	22:b:6015:CLA:CBB	2.62	0.78
22:B:1010:CLA:H151	29:B:1058:DGD:HA82	1.64	0.78
3:C:420:VAL:HB	3:C:425:TRP:HE1	1.49	0.78
22:C:1025:CLA:HMB2	25:C:1054:BCR:C25	2.13	0.78
22:C:1029:CLA:HMC1	22:C:1029:CLA:HBC3	1.66	0.78
10:K:28:ILE:HD11	18:Y:28:ILE:HD12	1.65	0.78
13:O:243:SER:OG	13:O:261:ILE:HB	1.82	0.78
22:b:6009:CLA:CAA	22:b:6009:CLA:O2D	2.30	0.78
22:b:6021:CLA:H142	22:b:6021:CLA:H101	1.65	0.78
22:c:6029:CLA:H42	22:c:6029:CLA:CHD	2.13	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6033:CLA:H141	22:c:6036:CLA:C2D	2.14	0.78
5:e:5034:GLY:HA2	6:f:5032:PHE:CE1	2.19	0.78
13:o:5052:ALA:HB1	13:o:5230:VAL:N	1.99	0.78
16:v:5070:GLY:HA3	16:v:5156:TRP:O	1.83	0.78
3:C:56:HIS:C	3:C:56:HIS:CD2	2.62	0.78
3:C:121:SER:O	3:C:124:VAL:HG22	1.84	0.78
5:E:27:ILE:HB	5:E:28:PRO:HD3	1.64	0.78
22:c:6030:CLA:H172	22:c:6030:CLA:H122	1.62	0.78
10:k:5031:LEU:HB3	25:k:6051:BCR:H14C	1.63	0.78
22:B:1022:CLA:H11	22:B:1022:CLA:C3D	2.14	0.78
22:C:1030:CLA:C3D	22:C:1030:CLA:CED	2.62	0.78
18:Y:42:ARG:O	18:Y:43:ARG:HB3	1.83	0.78
25:b:6047:BCR:H371	25:b:6047:BCR:H403	1.33	0.78
3:c:5292:PHE:CD1	29:c:6055:DGD:HD1	2.18	0.78
1:A:91:LEU:HG	1:A:166:GLY:O	1.83	0.78
22:B:1012:CLA:CMB	22:B:1015:CLA:HBB1	2.12	0.78
3:C:42:LEU:HD11	3:C:49:LEU:HD12	1.66	0.78
3:C:92:ILE:HD12	3:C:92:ILE:N	1.99	0.78
22:C:1030:CLA:HBC2	22:C:1030:CLA:CHD	2.13	0.78
22:C:1037:CLA:HBC2	22:C:1037:CLA:CHD	2.12	0.78
22:K:1034:CLA:CGA	22:K:1034:CLA:H42	2.14	0.78
20:z:5055:GLY:HA2	25:z:6053:BCR:H311	1.65	0.78
2:B:260:SER:OG	2:B:262:THR:HG23	1.83	0.77
3:C:171:GLY:CA	3:C:174:LEU:HB2	2.11	0.77
22:D:1004:CLA:H102	22:D:1004:CLA:H142	1.66	0.77
10:K:37:PHE:HB3	25:K:1051:BCR:H401	1.66	0.77
20:Z:46:LEU:O	20:Z:50:LEU:HB2	1.83	0.77
22:b:6021:CLA:OBD	22:b:6022:CLA:CHC	2.32	0.77
3:c:5092:ILE:HD12	3:c:5092:ILE:N	1.99	0.77
3:c:5397:THR:OG1	3:c:5398:HIS:ND1	2.17	0.77
13:o:5141:ARG:HG2	13:o:5141:ARG:NH1	1.96	0.77
22:C:1025:CLA:H43	22:C:1025:CLA:C1B	2.14	0.77
10:K:18:PHE:O	10:K:22:VAL:HG23	1.85	0.77
16:V:64:ALA:O	16:V:68:VAL:CG1	2.26	0.77
1:a:5215:HIS:NE2	1:a:5271:LEU:HD11	1.97	0.77
22:b:6011:CLA:O1A	22:b:6011:CLA:H43	1.85	0.77
22:b:6022:CLA:C14	22:b:6022:CLA:C8	2.61	0.77
22:b:6022:CLA:HBC3	22:b:6022:CLA:H91	1.66	0.77
3:c:5056:HIS:C	3:c:5056:HIS:CD2	2.62	0.77
4:d:5297:ASP:CG	4:d:5298:PHE:H	1.89	0.77
17:x:5025:SER:O	17:x:5029:VAL:HG23	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:A:1003:CLA:CAA	22:A:1003:CLA:CED	2.30	0.77
22:B:1021:CLA:OBD	22:B:1022:CLA:CHC	2.32	0.77
3:C:343:ARG:HH12	3:C:348:GLU:HG3	0.74	0.77
22:C:1030:CLA:HED3	22:C:1030:CLA:C4D	2.15	0.77
4:D:148:ALA:O	4:D:152:VAL:HG23	1.84	0.77
4:D:246:MET:HE3	4:D:264:LYS:CG	2.14	0.77
5:E:34:GLY:HA2	6:F:32:PHE:CE1	2.19	0.77
13:O:82:PRO:CG	13:O:89:ALA:HB1	2.15	0.77
13:O:172:PHE:HB2	13:O:221:GLY:H	1.49	0.77
15:U:51:LYS:HG3	15:U:52:ASN:H	1.48	0.77
17:X:25:SER:O	17:X:29:VAL:HG23	1.84	0.77
3:c:5171:GLY:C	22:c:6025:CLA:CBC	2.58	0.77
3:c:5202:PRO:HB3	3:c:5235:GLY:HA2	1.67	0.77
22:c:6025:CLA:O2A	22:c:6025:CLA:C4A	2.32	0.77
4:d:5201:VAL:CG2	22:d:6004:CLA:HMB2	2.12	0.77
6:f:5019:ARG:O	6:f:5023:VAL:HG23	1.84	0.77
14:t:5014:ILE:O	14:t:5017:PHE:HB2	1.85	0.77
22:A:1007:CLA:HBA2	22:A:1007:CLA:HBD	1.64	0.77
2:B:249:ALA:HB2	22:B:1012:CLA:CBC	2.15	0.77
3:C:49:LEU:CD1	22:C:1035:CLA:HMA2	2.14	0.77
29:C:1057:DGD:HBG2	29:C:1057:DGD:CEB	2.10	0.77
10:K:21:LEU:HD11	18:Y:24:MET:HG3	1.66	0.77
2:b:5249:ALA:HB2	22:b:6012:CLA:CBC	2.15	0.77
3:c:5164:HIS:O	3:c:5168:LEU:HD13	1.85	0.77
22:k:6034:CLA:H71	22:k:6034:CLA:H41	1.60	0.77
22:k:6034:CLA:CGA	22:k:6034:CLA:H42	2.14	0.77
1:A:172:MET:HE3	1:A:182:PHE:HD2	1.49	0.77
22:A:1007:CLA:HED2	22:A:1007:CLA:CAD	2.15	0.77
3:C:49:LEU:HD21	22:C:1035:CLA:CMA	2.15	0.77
1:a:5116:ILE:HG23	1:a:5117:PHE:H	1.47	0.77
2:b:5108:PHE:O	2:b:5111:ALA:HB3	1.84	0.77
22:c:6026:CLA:O1A	22:c:6026:CLA:C2	2.30	0.77
22:c:6031:CLA:O2A	22:c:6031:CLA:CMA	2.32	0.77
13:o:5172:PHE:HB2	13:o:5221:GLY:H	1.49	0.77
20:z:5015:LEU:HD12	20:z:5050:LEU:HD12	1.66	0.77
4:D:36:LEU:HD21	4:D:124:GLY:HA2	1.66	0.77
13:O:52:ALA:HB1	13:O:230:VAL:N	1.99	0.77
16:V:125:ASP:HA	16:V:131:ARG:HH21	1.50	0.77
22:a:6007:CLA:H43	22:c:6029:CLA:C19	2.14	0.77
2:b:5260:SER:OG	2:b:5262:THR:HG23	1.83	0.77
22:b:6023:CLA:C13	22:b:6024:CLA:HMA3	2.09	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6026:CLA:O1A	22:c:6026:CLA:C3	2.33	0.77
29:c:6055:DGD:HA72	29:c:6055:DGD:HAW2	1.65	0.77
4:d:5191:TRP:CZ2	4:d:5197:HIS:HB2	2.20	0.77
24:A:1043:PQ9:C45	28:D:1059:MGE:CAA	2.57	0.77
22:C:1025:CLA:O2A	22:C:1025:CLA:C4A	2.32	0.77
1:a:5094:TYR:HE1	1:a:5105:TRP:HA	1.49	0.77
4:d:5055:VAL:HG21	4:d:5110:LEU:HD21	1.67	0.77
13:o:5031:LEU:HD13	13:o:5036:ILE:HD11	1.64	0.77
18:y:5042:ARG:O	18:y:5043:ARG:HB3	1.83	0.77
22:A:1006:CLA:H161	25:D:1050:BCR:H272	1.64	0.77
22:C:1029:CLA:HHC	22:C:1029:CLA:HBB1	1.65	0.77
4:D:184:PHE:HE2	4:D:188:PHE:CD1	2.03	0.77
22:b:6009:CLA:HBA1	22:b:6009:CLA:CBD	2.15	0.77
22:b:6011:CLA:C3D	22:b:6013:CLA:C1	2.63	0.77
3:c:5121:SER:O	3:c:5124:VAL:HG22	1.84	0.77
3:c:5403:SER:OG	3:c:5407:VAL:HG12	1.85	0.77
22:c:6029:CLA:HHC	22:c:6029:CLA:HBB1	1.65	0.77
22:c:6030:CLA:C4D	22:c:6030:CLA:HED3	2.15	0.77
4:d:5148:ALA:O	4:d:5152:VAL:HG23	1.84	0.77
22:d:6004:CLA:H102	22:d:6004:CLA:H142	1.67	0.77
22:B:1024:CLA:H2A	22:B:1024:CLA:O2A	1.83	0.77
3:C:81:MET:HG3	3:C:86:LEU:CD1	2.13	0.77
25:D:1050:BCR:C20	28:D:1059:MGE:H5A1	2.15	0.77
22:b:6022:CLA:H11	22:b:6022:CLA:C3D	2.14	0.77
4:d:5089:LEU:HD12	7:h:5050:ASN:OD1	1.85	0.77
23:d:6039:PHO:HBC2	23:d:6039:PHO:HHD	1.67	0.77
10:k:5021:LEU:HD11	18:y:5024:MET:HG3	1.66	0.77
2:B:5:TRP:O	2:B:8:VAL:HG13	1.85	0.77
22:B:1009:CLA:HAA1	25:H:1049:BCR:H363	1.66	0.77
22:B:1012:CLA:CGA	22:B:1020:CLA:C14	2.63	0.77
22:B:1021:CLA:H142	22:B:1021:CLA:H101	1.65	0.77
3:C:171:GLY:C	22:C:1025:CLA:CBC	2.58	0.77
3:C:199:ILE:HG21	3:C:234:VAL:CG1	2.15	0.77
22:C:1035:CLA:C9	25:C:1052:BCR:C40	2.63	0.77
4:D:188:PHE:HE2	4:D:326:ARG:HG2	1.47	0.77
28:b:6060:MGE:H212	28:b:6060:MGE:H251	0.79	0.77
22:c:6029:CLA:HMC1	22:c:6029:CLA:HBC3	1.66	0.77
4:d:5261:PHE:CE2	4:d:5267:LEU:HA	2.20	0.77
22:B:1009:CLA:H3A	25:H:1049:BCR:H372	1.67	0.76
22:B:1011:CLA:O1A	22:B:1011:CLA:C3A	2.30	0.76
3:C:224:ILE:HG23	25:C:1054:BCR:C38	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:351:PHE:CE2	3:C:375:LEU:HD11	2.18	0.76
29:C:1055:DGD:HA72	29:C:1055:DGD:HAW2	1.65	0.76
18:Y:25:ILE:HG13	18:Y:26:ALA:N	2.00	0.76
2:b:5249:ALA:O	2:b:5252:VAL:HG12	1.85	0.76
22:b:6022:CLA:O1D	22:b:6022:CLA:CAA	2.30	0.76
22:c:6025:CLA:H43	22:c:6025:CLA:C1B	2.14	0.76
2:B:249:ALA:O	2:B:252:VAL:HG12	1.85	0.76
22:B:1009:CLA:HMB3	25:H:1049:BCR:C27	1.98	0.76
22:C:1037:CLA:O2D	22:C:1037:CLA:H2A	1.85	0.76
4:D:89:LEU:HD12	7:H:50:ASN:OD1	1.85	0.76
4:D:191:TRP:CZ2	4:D:197:HIS:HB2	2.20	0.76
4:D:261:PHE:CE2	4:D:267:LEU:HA	2.20	0.76
1:a:5143:ILE:HB	4:d:5220:ASN:ND2	1.99	0.76
2:b:5246:PHE:O	2:b:5249:ALA:HB3	1.85	0.76
2:b:5460:LEU:HA	29:b:6058:DGD:CIA	2.15	0.76
22:b:6011:CLA:C1	22:b:6013:CLA:C9	2.63	0.76
3:c:5472:LEU:O	3:c:5473:ASP:HB2	1.85	0.76
22:c:6030:CLA:HBC2	22:c:6030:CLA:CHD	2.13	0.76
22:c:6030:CLA:C3D	22:c:6030:CLA:CED	2.62	0.76
22:c:6033:CLA:CMA	22:k:6034:CLA:HAC1	2.16	0.76
13:o:5082:PRO:HG3	13:o:5089:ALA:HB1	1.68	0.76
1:A:197:PHE:HE1	1:A:285:PHE:HD2	1.33	0.76
22:A:1003:CLA:H71	22:A:1003:CLA:H43	1.67	0.76
23:A:1038:PHO:H201	22:D:1005:CLA:CMB	2.13	0.76
2:B:112:CYS:SG	14:t:5023:PHE:HZ	2.08	0.76
2:B:392:PHE:HA	2:B:397:VAL:HG23	1.68	0.76
22:C:1036:CLA:HMC3	22:C:1036:CLA:HBC2	1.65	0.76
22:a:6006:CLA:HBC3	22:a:6006:CLA:CHD	2.11	0.76
22:b:6022:CLA:C1A	22:b:6022:CLA:O2A	2.34	0.76
22:c:6037:CLA:O2D	22:c:6037:CLA:H2A	1.85	0.76
13:o:5223:ILE:CG2	13:o:5243:SER:HB3	2.15	0.76
16:v:5064:ALA:O	16:v:5068:VAL:CG1	2.26	0.76
1:A:246:TYR:HD1	1:A:246:TYR:H	1.34	0.76
22:B:1011:CLA:C1	22:B:1013:CLA:C9	2.63	0.76
22:B:1016:CLA:H52	22:H:1017:CLA:H112	1.63	0.76
3:C:164:HIS:O	3:C:168:LEU:HD13	1.85	0.76
22:C:1033:CLA:H141	22:C:1036:CLA:C2D	2.14	0.76
22:a:6006:CLA:HBC1	4:d:5182:LEU:HD21	1.68	0.76
7:h:5017:GLU:HB2	7:h:5020:LYS:HB2	1.67	0.76
22:B:1009:CLA:H121	22:B:1009:CLA:H91	0.83	0.76
3:C:403:SER:OG	3:C:407:VAL:HG12	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:C:1031:CLA:O2A	22:C:1031:CLA:CMA	2.32	0.76
4:D:55:VAL:HG21	4:D:110:LEU:HD21	1.67	0.76
4:D:201:VAL:CG2	22:D:1004:CLA:HMB2	2.12	0.76
25:T:6048:BCR:H331	25:T:6048:BCR:C8	2.15	0.76
16:V:98:LEU:H	16:V:98:LEU:CD2	1.97	0.76
22:c:6033:CLA:CED	22:c:6033:CLA:CAD	2.64	0.76
25:d:6050:BCR:C20	28:d:6059:MGE:H5A1	2.15	0.76
26:A:1063:LHG:C32	22:K:1034:CLA:H151	2.16	0.76
22:B:1009:CLA:C8	22:B:1009:CLA:H142	2.09	0.76
22:B:1011:CLA:O1A	22:B:1011:CLA:H43	1.85	0.76
22:B:1023:CLA:C13	22:B:1024:CLA:HMA3	2.09	0.76
16:V:92:ARG:HG3	16:V:92:ARG:HH11	1.48	0.76
20:Z:15:LEU:HD12	20:Z:50:LEU:HD12	1.66	0.76
1:a:5197:PHE:HE1	1:a:5285:PHE:HD2	1.33	0.76
22:b:6021:CLA:CED	22:b:6021:CLA:O1A	2.34	0.76
22:c:6037:CLA:HBC2	22:c:6037:CLA:CHD	2.12	0.76
10:k:5018:PHE:O	10:k:5022:VAL:HG23	1.85	0.76
16:v:5125:ASP:HA	16:v:5131:ARG:HH21	1.50	0.76
22:B:1011:CLA:C3D	22:B:1013:CLA:C1	2.63	0.76
22:B:1019:CLA:HBB1	22:B:1019:CLA:HHC	1.67	0.76
22:C:1026:CLA:O1A	22:C:1026:CLA:C3	2.33	0.76
22:C:1031:CLA:C14	25:C:1054:BCR:C36	2.64	0.76
4:D:297:ASP:CG	4:D:298:PHE:H	1.89	0.76
13:O:223:ILE:CG2	13:O:243:SER:HB3	2.15	0.76
22:a:6006:CLA:C17	25:d:6050:BCR:H272	2.16	0.76
26:a:6063:LHG:C32	22:k:6034:CLA:H151	2.16	0.76
22:b:6012:CLA:CGA	22:b:6020:CLA:C14	2.63	0.76
3:c:5224:ILE:HG23	25:c:6054:BCR:C38	2.15	0.76
22:c:6025:CLA:C15	22:c:6031:CLA:C9	2.49	0.76
4:d:5169:PHE:C	27:d:6068:IOD:I	2.98	0.76
4:d:5328:TRP:HZ3	16:v:5161:VAL:HA	1.49	0.76
15:u:5043:PRO:HG3	16:v:5109:ASP:N	2.01	0.76
16:v:5098:LEU:H	16:v:5098:LEU:CD2	1.97	0.76
1:A:29:TYR:CD2	1:A:133:LEU:HD13	2.21	0.76
2:B:460:LEU:HA	29:B:1058:DGD:CIA	2.15	0.76
25:B:1048:BCR:H331	25:B:1048:BCR:C8	2.15	0.76
3:C:202:PRO:HB3	3:C:235:GLY:HA2	1.67	0.76
29:C:1056:DGD:O1A	29:C:1056:DGD:C4A	2.34	0.76
16:V:151:ILE:H	16:V:151:ILE:HD13	1.51	0.76
22:c:6030:CLA:HBB1	22:c:6030:CLA:CHC	2.15	0.76
22:c:6035:CLA:C9	25:k:6052:BCR:C40	2.63	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:174:LEU:CD2	2:B:312:TYR:OH	2.31	0.76
22:B:1009:CLA:H8	22:B:1009:CLA:H142	1.62	0.76
22:B:1009:CLA:CAA	22:B:1009:CLA:O2D	2.30	0.76
22:B:1022:CLA:H93	22:B:1022:CLA:H122	1.63	0.76
3:c:5199:ILE:HG21	3:c:5234:VAL:CG1	2.15	0.76
22:B:1022:CLA:C14	22:B:1022:CLA:C8	2.61	0.76
22:B:1022:CLA:HBC3	22:B:1022:CLA:H91	1.66	0.76
22:B:1022:CLA:O2A	22:B:1022:CLA:C1A	2.34	0.76
3:C:56:HIS:HD2	3:C:57:ALA:N	1.84	0.76
3:C:167:VAL:HG11	22:C:1036:CLA:HBA2	1.67	0.76
22:C:1033:CLA:CED	22:C:1033:CLA:CAD	2.64	0.76
4:D:139:ARG:NH1	4:D:265:ARG:NH2	2.28	0.76
7:H:7:LEU:HD23	7:H:10:ILE:HD12	1.68	0.76
15:U:43:PRO:HG3	16:V:109:ASP:N	2.01	0.76
3:c:5075:PHE:HZ	3:c:5105:VAL:HG11	1.51	0.76
3:C:75:PHE:HZ	3:C:105:VAL:HG11	1.51	0.75
3:C:109:PHE:HB3	3:C:110:PRO:HD3	1.67	0.75
3:C:249:ILE:O	3:C:252:ILE:HG22	1.86	0.75
4:D:226:GLY:HA3	4:D:234:ALA:CB	2.16	0.75
14:T:14:ILE:O	14:T:17:PHE:HB2	1.85	0.75
1:a:5029:TYR:CD2	1:a:5133:LEU:HD13	2.21	0.75
1:a:5126:TYR:HD2	1:a:5126:TYR:O	1.69	0.75
1:a:5219:VAL:HG21	4:d:5268:HIS:CD2	2.21	0.75
2:b:5298:LEU:HD11	2:b:5302:TRP:HE1	1.51	0.75
22:c:6031:CLA:C14	25:c:6054:BCR:C36	2.64	0.75
4:d:5118:GLY:CA	23:d:6039:PHO:H8	2.16	0.75
10:k:5035:LEU:HA	10:k:5038:VAL:CG2	2.16	0.75
28:l:6061:MGE:O1B	28:l:6061:MGE:C1G	2.31	0.75
18:y:5025:ILE:HG13	18:y:5026:ALA:N	2.00	0.75
22:A:1006:CLA:HBC3	22:A:1006:CLA:CHD	2.11	0.75
2:B:246:PHE:O	2:B:249:ALA:HB3	1.85	0.75
2:B:298:LEU:HD11	2:B:302:TRP:HE1	1.51	0.75
22:B:1022:CLA:O1D	22:B:1022:CLA:CAA	2.30	0.75
4:D:240:ALA:O	4:D:241:GLU:HG3	1.87	0.75
23:D:1039:PHO:HBC2	23:D:1039:PHO:HHD	1.67	0.75
5:E:13:ILE:HA	5:E:16:SER:CB	2.16	0.75
1:a:5272:HIS:CB	4:d:5218:VAL:HG11	2.17	0.75
22:b:6014:CLA:HBC2	22:b:6014:CLA:CHD	2.11	0.75
22:b:6016:CLA:C5	22:h:6017:CLA:C9	2.34	0.75
3:c:5167:VAL:HG11	22:c:6036:CLA:HBA2	1.67	0.75
22:c:6031:CLA:HAA1	22:c:6033:CLA:HED2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5082:PRO:CG	13:o:5089:ALA:HB1	2.15	0.75
1:A:94:TYR:HE1	1:A:105:TRP:HA	1.49	0.75
22:A:1006:CLA:C17	25:D:1050:BCR:H272	2.16	0.75
2:B:52:LEU:HD22	2:B:311:PHE:CD1	2.21	0.75
4:D:51:GLY:HA2	4:D:55:VAL:HB	1.69	0.75
2:b:5052:LEU:HD22	2:b:5311:PHE:CD1	2.21	0.75
3:c:5117:VAL:HG11	22:c:6027:CLA:C4	2.15	0.75
22:c:6033:CLA:HMA3	22:k:6034:CLA:CMC	2.16	0.75
4:d:5240:ALA:O	4:d:5241:GLU:HG3	1.87	0.75
7:h:5007:LEU:HD23	7:h:5010:ILE:HD12	1.68	0.75
1:A:224:ILE:N	2:B:482:ILE:HG23	2.01	0.75
3:C:117:VAL:HG11	22:C:1027:CLA:C4	2.15	0.75
2:b:5005:TRP:O	2:b:5008:VAL:HG13	1.85	0.75
22:b:6013:CLA:CMB	22:b:6014:CLA:H11	2.16	0.75
22:c:6030:CLA:HBB2	22:c:6031:CLA:CED	2.16	0.75
29:c:6056:DGD:O1A	29:c:6056:DGD:C4A	2.34	0.75
4:d:5036:LEU:HD21	4:d:5124:GLY:HA2	1.66	0.75
4:d:5051:GLY:HA2	4:d:5055:VAL:HB	1.69	0.75
4:d:5226:GLY:HA3	4:d:5234:ALA:CB	2.16	0.75
13:o:5080:GLU:O	13:o:5082:PRO:CD	2.33	0.75
14:t:5018:PHE:HD1	25:t:1046:BCR:H332	1.49	0.75
1:a:5293:MET:HG2	1:a:5298:ASN:HA	1.68	0.75
2:b:5191:ASN:ND2	7:h:5060:VAL:HA	2.02	0.75
2:b:5384:ARG:HD3	15:u:5102:LEU:HD21	1.69	0.75
22:b:6019:CLA:HHC	22:b:6019:CLA:HBB1	1.67	0.75
3:c:5249:ILE:O	3:c:5252:ILE:HG22	1.86	0.75
4:d:5246:MET:HE3	4:d:5264:LYS:CG	2.14	0.75
5:e:5042:LEU:O	5:e:5046:VAL:HG23	1.86	0.75
7:h:5041:PHE:CZ	7:h:5045:ILE:HD11	2.22	0.75
15:u:5063:ASN:CG	15:u:5063:ASN:O	2.30	0.75
16:v:5151:ILE:HD13	16:v:5151:ILE:H	1.51	0.75
1:A:225:ARG:O	1:A:226:GLU:HB2	1.87	0.75
22:A:1006:CLA:HBC1	4:D:182:LEU:HD21	1.68	0.75
2:B:12:LEU:H	2:B:12:LEU:HD12	1.52	0.75
2:B:384:ARG:HD3	15:U:102:LEU:HD21	1.69	0.75
2:B:429:ILE:H	2:B:429:ILE:HD12	1.52	0.75
22:C:1031:CLA:HAA1	22:C:1033:CLA:HED2	1.68	0.75
7:H:41:PHE:CZ	7:H:45:ILE:HD11	2.22	0.75
12:M:34:LYS:HG3	11:l:5009:PRO:CG	2.17	0.75
13:O:77:LEU:HD23	13:O:93:PRO:HA	1.69	0.75
3:c:5056:HIS:HD2	3:c:5057:ALA:N	1.84	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5086:LEU:HD22	3:c:5089:ILE:HB	1.69	0.75
3:c:5284:PHE:HB3	29:c:6055:DGD:HB71	1.69	0.75
22:c:6033:CLA:CED	22:c:6033:CLA:OBD	2.35	0.75
1:A:126:TYR:HD2	1:A:126:TYR:O	1.69	0.75
2:B:149:LEU:HB2	22:B:1012:CLA:C20	2.17	0.75
3:C:46:SER:CB	3:C:141:GLU:CB	2.59	0.75
3:C:86:LEU:HD22	3:C:89:ILE:HB	1.69	0.75
8:I:14:PHE:HD1	8:I:14:PHE:C	1.95	0.75
25:T:6046:BCR:H23C	25:T:6046:BCR:H403	1.69	0.75
22:B:1013:CLA:CMB	22:B:1014:CLA:H11	2.16	0.75
22:B:1018:CLA:H18	22:B:1023:CLA:HMD2	1.69	0.75
22:B:1021:CLA:CED	22:B:1021:CLA:O1A	2.34	0.75
22:B:1021:CLA:H112	28:B:1060:MGE:CDA	2.17	0.75
5:E:42:LEU:O	5:E:46:VAL:HG23	1.86	0.75
13:O:80:GLU:O	13:O:82:PRO:CD	2.33	0.75
22:a:6007:CLA:HED2	22:a:6007:CLA:CAD	2.15	0.75
23:a:6038:PHO:CMB	22:d:6005:CLA:H52	2.17	0.75
2:b:5027:THR:HG23	22:b:6013:CLA:HBC1	1.69	0.75
22:b:6009:CLA:HBA1	22:b:6009:CLA:CHA	2.15	0.75
22:b:6009:CLA:OBD	22:b:6010:CLA:HBB2	1.87	0.75
7:h:5053:LEU:HD12	7:h:5055:LEU:HD21	1.67	0.75
8:i:5014:PHE:HD1	8:i:5014:PHE:C	1.95	0.75
22:A:1007:CLA:C4	22:C:1029:CLA:C19	2.64	0.75
22:A:1007:CLA:HBA2	22:A:1007:CLA:CBD	2.17	0.75
2:B:191:ASN:ND2	7:H:60:VAL:HA	2.02	0.75
22:K:1034:CLA:C4D	22:K:1034:CLA:H12	2.17	0.75
13:O:82:PRO:HG3	13:O:89:ALA:HB1	1.68	0.75
15:U:31:ASN:HD22	15:U:32:ILE:H	1.35	0.75
22:b:6009:CLA:H3A	25:h:6049:BCR:H372	1.67	0.75
4:d:5184:PHE:HE2	4:d:5188:PHE:CD1	2.03	0.75
22:d:6004:CLA:HBB1	22:d:6004:CLA:CHC	2.15	0.75
5:e:5013:ILE:HA	5:e:5016:SER:CB	2.16	0.75
10:k:5032:PHE:O	10:k:5033:PHE:C	2.29	0.75
2:B:463:PHE:CG	29:B:1058:DGD:HAV1	2.22	0.74
22:B:1009:CLA:HBA1	22:B:1009:CLA:CBD	2.15	0.74
22:C:1033:CLA:HMA3	22:K:1034:CLA:CMC	2.16	0.74
22:a:6007:CLA:C4	22:c:6029:CLA:C19	2.64	0.74
22:a:6007:CLA:HBA2	22:a:6007:CLA:CBD	2.17	0.74
2:b:5121:GLU:HB2	7:h:5004:ARG:HB3	1.69	0.74
22:b:6009:CLA:CED	22:b:6009:CLA:C2A	2.53	0.74
22:b:6023:CLA:C9	22:b:6024:CLA:C15	2.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5118:GLY:HA3	23:d:6039:PHO:H8	1.69	0.74
1:A:293:MET:HG2	1:A:298:ASN:HA	1.68	0.74
22:B:1013:CLA:CAB	22:B:1014:CLA:H51	2.17	0.74
22:C:1029:CLA:HMD2	22:C:1031:CLA:HAB	1.69	0.74
22:C:1031:CLA:HBC2	22:C:1031:CLA:CHD	2.11	0.74
4:D:118:GLY:CA	23:D:1039:PHO:H8	2.16	0.74
8:I:14:PHE:HE1	8:I:18:LEU:HD12	1.52	0.74
1:a:5013:LEU:H	1:a:5013:LEU:HD12	1.51	0.74
1:a:5180:PHE:CE1	4:d:5192:THR:HB	2.22	0.74
1:a:5210:LEU:HD23	1:a:5210:LEU:C	2.11	0.74
1:a:5219:VAL:HG11	4:d:5268:HIS:CG	2.22	0.74
2:b:5053:ASN:N	2:b:5054:PRO:HD3	2.02	0.74
22:c:6025:CLA:HBB1	22:c:6025:CLA:HMB3	1.69	0.74
8:i:5014:PHE:HE1	8:i:5018:LEU:HD12	1.51	0.74
1:A:339:PHE:HB3	3:C:313:GLN:OE1	1.87	0.74
22:B:1009:CLA:HBA1	22:B:1009:CLA:CHA	2.15	0.74
3:C:263:ALA:C	3:C:264:PHE:HD2	1.95	0.74
3:C:284:PHE:HB3	29:C:1055:DGD:HB71	1.69	0.74
22:C:1035:CLA:HMD1	10:K:40:GLN:NE2	2.01	0.74
4:D:191:TRP:NE1	4:D:197:HIS:CD2	2.55	0.74
7:H:17:GLU:HB2	7:H:20:LYS:HB2	1.67	0.74
22:K:1034:CLA:C4	22:K:1034:CLA:O2A	2.33	0.74
26:a:6063:LHG:C38	26:a:6063:LHG:C34	2.40	0.74
2:b:5429:ILE:HD12	2:b:5429:ILE:H	1.52	0.74
22:b:6009:CLA:HAA1	25:h:6049:BCR:H363	1.66	0.74
3:c:5283:GLY:HA3	22:c:6026:CLA:HBC3	1.69	0.74
22:k:6034:CLA:H12	22:k:6034:CLA:C4D	2.17	0.74
13:o:5129:PHE:HD2	13:o:5129:PHE:O	1.71	0.74
1:A:13:LEU:H	1:A:13:LEU:HD12	1.51	0.74
1:A:16:ARG:HA	1:A:19:ASN:ND2	2.02	0.74
1:A:180:PHE:CE1	4:D:192:THR:HB	2.22	0.74
2:B:12:LEU:HD12	2:B:12:LEU:N	2.02	0.74
22:B:1018:CLA:HBB1	22:B:1018:CLA:CHC	2.14	0.74
22:B:1023:CLA:C9	22:B:1024:CLA:C15	2.65	0.74
3:C:32:GLY:HA3	3:C:41:ARG:CD	2.17	0.74
22:a:6007:CLA:H112	22:a:6007:CLA:H51	1.68	0.74
22:b:6018:CLA:H18	22:b:6023:CLA:HMD2	1.69	0.74
3:c:5049:LEU:CG	22:c:6035:CLA:HMA3	2.18	0.74
22:c:6030:CLA:HHD	22:c:6030:CLA:HBC3	1.69	0.74
1:A:210:LEU:HD23	1:A:210:LEU:C	2.11	0.74
22:B:1020:CLA:H11	22:B:1023:CLA:O1A	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:33:VAL:O	7:H:37:LEU:HB2	1.87	0.74
10:K:33:PHE:HB2	22:K:1034:CLA:H3A	1.68	0.74
22:b:6021:CLA:H112	28:b:6060:MGE:CDA	2.17	0.74
3:c:5109:PHE:HB3	3:c:5110:PRO:HD3	1.68	0.74
13:o:5190:LEU:HD23	13:o:5190:LEU:C	2.12	0.74
1:A:156:ALA:CA	1:A:160:ILE:HD12	2.17	0.74
22:B:1022:CLA:H202	22:B:1022:CLA:CMD	2.18	0.74
4:D:118:GLY:HA3	23:D:1039:PHO:H8	1.69	0.74
2:b:5005:TRP:CD1	2:b:5005:TRP:H	2.05	0.74
3:c:5112:PHE:O	3:c:5116:VAL:HG23	1.87	0.74
3:c:5428:THR:CG2	3:c:5429:SER:H	2.01	0.74
22:c:6025:CLA:C14	22:c:6031:CLA:HMB3	2.11	0.74
4:d:5036:LEU:HD21	4:d:5124:GLY:CA	2.18	0.74
4:d:5074:LEU:HD23	4:d:5175:VAL:HG11	1.70	0.74
1:A:156:ALA:HA	1:A:160:ILE:CD1	2.16	0.74
1:A:193:LEU:HD13	4:D:179:PHE:HB3	1.70	0.74
24:A:1043:PQ9:H352	4:D:45:LEU:HD22	1.69	0.74
3:C:49:LEU:CG	22:C:1035:CLA:HMA2	2.18	0.74
3:C:437:PHE:HA	22:C:1032:CLA:CMC	2.18	0.74
1:a:5224:ILE:N	2:b:5482:ILE:HG23	2.01	0.74
2:b:5463:PHE:CG	29:b:6058:DGD:HAV1	2.22	0.74
22:b:6013:CLA:CAB	22:b:6014:CLA:H51	2.17	0.74
3:c:5237:HIS:O	3:c:5240:ILE:HG22	1.88	0.74
29:c:6055:DGD:HBF1	29:c:6055:DGD:HBG3	1.69	0.74
4:d:5032:TRP:CE3	4:d:5032:TRP:HA	2.23	0.74
4:d:5191:TRP:NE1	4:d:5197:HIS:CD2	2.55	0.74
22:C:1033:CLA:CED	22:C:1033:CLA:OBD	2.35	0.74
4:D:74:LEU:HD23	4:D:175:VAL:HG11	1.70	0.74
22:a:6007:CLA:H43	22:c:6029:CLA:H191	1.68	0.74
22:b:6022:CLA:H202	22:b:6022:CLA:CMD	2.18	0.74
24:d:6042:PQ9:H242	28:l:6061:MGE:H263	1.70	0.74
13:o:5077:LEU:HD23	13:o:5093:PRO:HA	1.69	0.74
3:C:472:LEU:O	3:C:473:ASP:HB2	1.85	0.74
22:C:1028:CLA:H93	29:C:1056:DGD:HB61	1.70	0.74
7:H:53:LEU:HD12	7:H:55:LEU:HD21	1.67	0.74
13:O:190:LEU:HD23	13:O:190:LEU:C	2.12	0.74
2:b:5385:ARG:HD3	15:u:5014:ASP:OD2	1.87	0.74
22:b:6009:CLA:HAA2	25:h:6049:BCR:H372	1.70	0.74
28:b:6060:MGE:H3B2	28:b:6060:MGE:C7B	2.17	0.74
3:c:5437:PHE:HA	22:c:6032:CLA:CMC	2.18	0.74
22:k:6034:CLA:HBC3	22:k:6034:CLA:CHD	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:5:TRP:H	2:B:5:TRP:CD1	2.05	0.74
2:B:12:LEU:O	2:B:14:ASN:N	2.21	0.74
2:B:53:ASN:N	2:B:54:PRO:HD3	2.02	0.74
3:C:349:ILE:HG22	3:C:375:LEU:HB2	1.68	0.74
3:C:417:VAL:CG1	16:V:68:VAL:CG1	2.65	0.74
13:O:129:PHE:HD2	13:O:129:PHE:O	1.71	0.74
1:a:5040:THR:HG21	1:a:5122:GLY:H	1.53	0.74
22:a:6007:CLA:HBA2	22:a:6007:CLA:CHA	2.18	0.74
22:b:6009:CLA:CBD	22:b:6010:CLA:HBB2	1.97	0.74
22:b:6019:CLA:H193	22:b:6021:CLA:H72	1.70	0.74
3:c:5369:LEU:HD13	3:c:5380:ILE:HD12	1.70	0.74
22:c:6028:CLA:H93	29:c:6056:DGD:HB61	1.70	0.74
2:B:135:LEU:H	2:B:135:LEU:HD12	1.53	0.73
2:B:156:PHE:O	2:B:162:PHE:HB3	1.88	0.73
22:B:1023:CLA:O1D	22:B:1024:CLA:HBB2	1.88	0.73
15:U:43:PRO:HG3	16:V:109:ASP:CA	2.17	0.73
24:a:6043:PQ9:H352	4:d:5045:LEU:HD22	1.69	0.73
2:b:5475:PHE:HD1	4:d:5140:PRO:HD3	1.53	0.73
22:b:6016:CLA:H52	22:h:6017:CLA:H112	1.63	0.73
23:d:6039:PHO:CMA	22:d:6004:CLA:H142	2.18	0.73
13:o:5168:PHE:HB2	13:o:5225:LEU:HB2	1.69	0.73
15:u:5043:PRO:HG3	16:v:5109:ASP:CA	2.17	0.73
2:B:307:GLU:OE2	13:o:5085:LYS:HB3	1.87	0.73
2:B:475:PHE:HD1	4:D:140:PRO:HD3	1.53	0.73
22:B:1011:CLA:HED2	22:B:1012:CLA:HED2	1.61	0.73
3:C:89:ILE:HG12	3:C:111:PHE:CD2	2.23	0.73
3:C:428:THR:CG2	3:C:429:SER:H	2.01	0.73
22:C:1033:CLA:HMA2	22:K:1034:CLA:C3C	2.17	0.73
22:C:1033:CLA:CMA	22:K:1034:CLA:HAC1	2.16	0.73
4:D:36:LEU:HD21	4:D:124:GLY:CA	2.18	0.73
13:O:231:ASP:HB3	13:O:234:THR:OG1	1.88	0.73
1:a:5156:ALA:HA	1:a:5160:ILE:CD1	2.16	0.73
26:a:6063:LHG:H341	26:a:6063:LHG:H383	0.79	0.73
2:b:5149:LEU:HB2	22:b:6012:CLA:C20	2.17	0.73
3:c:5348:GLU:CG	3:c:5349:ILE:HG13	2.18	0.73
22:c:6033:CLA:HMA2	22:k:6034:CLA:C3C	2.17	0.73
7:h:5033:VAL:O	7:h:5037:LEU:HB2	1.87	0.73
16:v:5038:LEU:HB2	16:v:5045:ILE:HD11	1.70	0.73
1:A:116:ILE:HG23	1:A:117:PHE:N	2.04	0.73
26:A:1063:LHG:H322	22:K:1034:CLA:H13	1.70	0.73
3:C:112:PHE:O	3:C:116:VAL:HG23	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:C:1055:DGD:HBF1	29:C:1055:DGD:HBG3	1.69	0.73
5:E:37:PHE:CE1	5:E:46:VAL:HG21	2.23	0.73
13:O:198:ILE:HG23	13:O:199:ALA:H	1.53	0.73
1:a:5016:ARG:HA	1:a:5019:ASN:ND2	2.02	0.73
3:c:5116:VAL:HG11	25:z:6053:BCR:HC31	1.70	0.73
3:c:5397:THR:OG1	3:c:5398:HIS:N	2.13	0.73
22:c:6030:CLA:HMB3	22:c:6031:CLA:NC	2.03	0.73
4:d:5191:TRP:NE1	4:d:5197:HIS:HD2	1.85	0.73
7:h:5048:ILE:HA	7:h:5053:LEU:HB3	1.70	0.73
16:v:5092:ARG:HH11	16:v:5092:ARG:CG	2.02	0.73
2:B:249:ALA:CB	2:B:459:ALA:HB2	2.19	0.73
22:B:1021:CLA:CED	22:B:1021:CLA:CHA	2.61	0.73
22:B:1023:CLA:C4C	22:B:1024:CLA:CBC	2.66	0.73
28:B:1060:MGE:H212	28:B:1060:MGE:H251	0.79	0.73
3:C:237:HIS:O	3:C:240:ILE:HG22	1.88	0.73
16:V:46:THR:O	16:V:47:LEU:HB2	1.88	0.73
2:b:5012:LEU:HD12	2:b:5012:LEU:H	1.52	0.73
2:b:5213:GLY:O	2:b:5217:ILE:HG13	1.89	0.73
22:b:6022:CLA:HBC2	22:b:6022:CLA:CHD	2.13	0.73
22:b:6023:CLA:O1D	22:b:6024:CLA:HBB2	1.88	0.73
3:c:5089:ILE:HG12	3:c:5111:PHE:CD2	2.23	0.73
22:k:6034:CLA:C4	22:k:6034:CLA:O2A	2.33	0.73
22:A:1007:CLA:H51	22:A:1007:CLA:H112	1.68	0.73
2:B:385:ARG:HD3	15:U:14:ASP:OD2	1.87	0.73
3:C:46:SER:OG	3:C:141:GLU:HB2	1.89	0.73
3:C:146:PHE:CG	3:C:146:PHE:O	2.40	0.73
3:C:164:HIS:HA	3:C:167:VAL:HB	1.71	0.73
2:b:5156:PHE:O	2:b:5162:PHE:HB3	1.88	0.73
22:b:6009:CLA:H121	22:b:6009:CLA:H91	0.83	0.73
22:b:6022:CLA:H93	22:b:6022:CLA:C12	2.09	0.73
14:t:5003:THR:HA	14:t:5006:TYR:HD2	1.53	0.73
1:A:40:THR:HG21	1:A:122:GLY:H	1.53	0.73
1:A:215:HIS:CE1	1:A:271:LEU:HD11	2.24	0.73
22:A:1006:CLA:H93	22:D:1004:CLA:H152	1.71	0.73
22:A:1007:CLA:HBA2	22:A:1007:CLA:CHA	2.18	0.73
2:B:27:THR:HG23	22:B:1013:CLA:CBC	2.18	0.73
2:B:121:GLU:HB2	7:H:4:ARG:HB3	1.69	0.73
2:B:475:PHE:CD1	4:D:140:PRO:HD3	2.24	0.73
22:B:1022:CLA:HBC2	22:B:1022:CLA:CHD	2.13	0.73
7:H:48:ILE:HA	7:H:53:LEU:HB3	1.71	0.73
1:a:5193:LEU:HD13	4:d:5179:PHE:HB3	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5225:ARG:O	1:a:5226:GLU:HB2	1.87	0.73
22:a:6006:CLA:H93	22:d:6004:CLA:H152	1.71	0.73
2:b:5012:LEU:HD12	2:b:5012:LEU:N	2.02	0.73
2:b:5357:ARG:HG2	2:b:5357:ARG:HH11	1.53	0.73
2:b:5392:PHE:HA	2:b:5397:VAL:HG23	1.68	0.73
22:b:6011:CLA:HBB1	22:b:6011:CLA:C9	2.19	0.73
3:c:5049:LEU:CD1	3:c:5049:LEU:N	2.51	0.73
3:c:5146:PHE:CG	3:c:5146:PHE:O	2.40	0.73
7:h:5029:PRO:O	7:h:5033:VAL:HG13	1.89	0.73
1:A:202:VAL:HG11	22:A:1006:CLA:OBD	1.89	0.73
2:B:27:THR:HG23	22:B:1013:CLA:HBC1	1.69	0.73
2:B:159:THR:HA	2:B:181:VAL:O	1.89	0.73
22:B:1019:CLA:C9	28:L:1061:MGE:H9A2	2.18	0.73
3:C:167:VAL:HG13	22:C:1036:CLA:H42	1.69	0.73
22:C:1030:CLA:HMB3	22:C:1031:CLA:NC	2.03	0.73
22:D:1005:CLA:CBC	22:D:1004:CLA:CBB	2.64	0.73
7:H:31:MET:SD	22:H:1017:CLA:HAA1	2.29	0.73
1:a:5246:TYR:H	1:a:5246:TYR:HD1	1.34	0.73
25:b:6047:BCR:H331	25:b:6047:BCR:C8	2.14	0.73
3:c:5187:ASP:HB2	3:c:5230:LEU:HD11	1.70	0.73
3:c:5334:PRO:HA	13:o:5179:THR:OG1	1.89	0.73
22:c:6029:CLA:HMD2	22:c:6031:CLA:HAB	1.69	0.73
1:A:205:VAL:HB	1:A:279:ARG:NH2	2.04	0.73
23:A:1038:PHO:CMB	22:D:1005:CLA:H52	2.17	0.73
25:A:1044:BCR:H331	25:A:1044:BCR:C8	2.19	0.73
3:C:179:ALA:CB	3:C:199:ILE:HD13	2.19	0.73
3:C:287:THR:HG21	3:C:431:PHE:HB2	1.71	0.73
22:C:1030:CLA:HBB2	22:C:1031:CLA:CED	2.16	0.73
4:D:32:TRP:HA	4:D:32:TRP:CE3	2.23	0.73
16:V:38:LEU:HB2	16:V:45:ILE:HD11	1.70	0.73
22:b:6018:CLA:HBB1	22:b:6018:CLA:CHC	2.14	0.73
22:b:6020:CLA:H11	22:b:6023:CLA:O1A	1.87	0.73
3:c:5263:ALA:HB3	3:c:5264:PHE:HE2	1.48	0.73
6:f:5036:ALA:O	6:f:5039:ALA:HB3	1.89	0.73
22:K:1034:CLA:H102	22:K:1034:CLA:C14	2.13	0.73
2:b:5354:LEU:C	2:b:5355:PHE:HD2	1.97	0.73
2:B:25:MET:C	2:B:27:THR:N	2.44	0.73
3:C:187:ASP:HB2	3:C:230:LEU:HD11	1.70	0.73
3:C:369:LEU:HD13	3:C:380:ILE:HD12	1.70	0.73
22:C:1030:CLA:HHD	22:C:1030:CLA:HBC3	1.69	0.73
11:L:9:PRO:CG	12:m:5034:LYS:HG3	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T:3:THR:HA	14:T:6:TYR:HD2	1.53	0.73
15:U:42:TYR:CD2	15:U:43:PRO:N	2.57	0.73
15:U:64:ILE:HB	15:U:67:LEU:HD11	1.70	0.73
1:a:5279:ARG:NH2	23:a:6038:PHO:HMC2	1.99	0.73
3:c:5263:ALA:C	3:c:5264:PHE:HD2	1.95	0.73
4:d:5281:MET:HE2	4:d:5281:MET:HA	1.70	0.73
2:B:172:TYR:O	2:B:174:LEU:CA	2.29	0.72
2:B:357:ARG:HG2	2:B:357:ARG:HH11	1.53	0.72
22:B:1009:CLA:HAA2	25:H:1049:BCR:H372	1.69	0.72
3:C:140:LEU:HD23	3:C:140:LEU:O	1.88	0.72
22:D:1005:CLA:C4A	22:D:1005:CLA:O1A	2.37	0.72
3:c:5032:GLY:HA3	3:c:5041:ARG:CD	2.17	0.72
3:c:5179:ALA:CB	3:c:5199:ILE:HD13	2.19	0.72
5:e:5037:PHE:CE1	5:e:5046:VAL:HG21	2.23	0.72
13:o:5198:ILE:HG23	13:o:5199:ALA:H	1.53	0.72
25:t:1046:BCR:H392	25:t:1046:BCR:C23	2.17	0.72
25:t:1046:BCR:H23C	25:t:1046:BCR:H403	1.69	0.72
22:B:1011:CLA:C9	22:B:1011:CLA:HBB1	2.19	0.72
7:H:29:PRO:O	7:H:33:VAL:HG13	1.89	0.72
7:H:56:ASP:O	7:H:58:VAL:HG23	1.89	0.72
13:O:168:PHE:HB2	13:O:225:LEU:HB2	1.69	0.72
16:V:92:ARG:HH11	16:V:92:ARG:CG	2.02	0.72
1:a:5159:LEU:HD12	1:a:5159:LEU:O	1.90	0.72
2:b:5144:PHE:CE1	2:b:5210:ILE:HG23	2.24	0.72
22:b:6023:CLA:C4C	22:b:6024:CLA:CBC	2.66	0.72
25:b:6045:BCR:H361	25:b:6045:BCR:C37	2.19	0.72
3:c:5343:ARG:HH12	3:c:5348:GLU:HG3	0.74	0.72
7:h:5031:MET:SD	22:h:6017:CLA:HAA1	2.29	0.72
26:A:1063:LHG:HC62	26:A:1063:LHG:O9	1.77	0.72
2:B:220:ARG:CD	2:B:221:PRO:HD2	2.20	0.72
22:B:1011:CLA:HBB1	22:B:1011:CLA:H92	1.71	0.72
3:C:116:VAL:HG11	25:Z:1053:BCR:HC31	1.70	0.72
4:D:65:SER:HB2	4:D:77:ALA:O	1.88	0.72
4:D:191:TRP:NE1	4:D:197:HIS:HD2	1.85	0.72
22:D:1005:CLA:HBC2	22:D:1005:CLA:HHD	1.71	0.72
6:F:24:HIS:HE1	31:F:1040:HEM:NC	1.88	0.72
25:T:6046:BCR:H392	25:T:6046:BCR:C23	2.17	0.72
2:b:5249:ALA:CB	2:b:5459:ALA:HB2	2.19	0.72
3:c:5349:ILE:HG22	3:c:5375:LEU:HB2	1.68	0.72
4:d:5065:SER:HB2	4:d:5077:ALA:O	1.88	0.72
13:o:5231:ASP:HB3	13:o:5234:THR:OG1	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:A:1063:LHG:C29	22:C:1032:CLA:H71	2.16	0.72
2:B:144:PHE:CE1	2:B:210:ILE:HG23	2.24	0.72
6:F:40:MET:O	6:F:42:PHE:N	2.22	0.72
2:b:5103:LEU:HD11	2:b:5107:LEU:HD11	1.69	0.72
2:b:5119:ASP:HB3	7:h:5003:ARG:HH21	1.54	0.72
2:b:5121:GLU:HG3	7:h:5012:ARG:HD3	1.71	0.72
2:b:5222:PRO:HB2	2:b:5225:LEU:CD1	2.20	0.72
22:b:6011:CLA:O1D	22:b:6013:CLA:C1	2.35	0.72
22:b:6021:CLA:O1A	22:b:6021:CLA:CGD	2.37	0.72
3:c:5167:VAL:HG13	22:c:6036:CLA:H42	1.69	0.72
3:c:5287:THR:HG23	3:c:5427:ALA:O	1.88	0.72
16:v:5046:THR:O	16:v:5047:LEU:HB2	1.88	0.72
22:B:1021:CLA:O1A	22:B:1021:CLA:CGD	2.37	0.72
3:C:29:GLU:HA	3:C:41:ARG:NH1	2.04	0.72
3:C:334:PRO:HA	13:O:179:THR:OG1	1.89	0.72
3:C:348:GLU:CG	3:C:349:ILE:HG13	2.18	0.72
24:D:1042:PQ9:H242	28:L:1061:MGE:H263	1.70	0.72
5:E:20:TRP:CZ2	9:J:13:VAL:HG23	2.24	0.72
7:H:12:ARG:NH1	7:H:15:ASN:HB3	2.03	0.72
1:a:5215:HIS:CE1	1:a:5271:LEU:HD11	2.24	0.72
2:b:5012:LEU:O	2:b:5014:ASN:N	2.21	0.72
2:b:5159:THR:HA	2:b:5181:VAL:O	1.89	0.72
3:c:5266:TRP:HE3	3:c:5271:TYR:HH	1.37	0.72
7:h:5004:ARG:O	7:h:5005:THR:HG23	1.90	0.72
15:u:5031:ASN:HD22	15:u:5032:ILE:H	1.35	0.72
15:u:5042:TYR:CD2	15:u:5043:PRO:N	2.57	0.72
18:y:5026:ALA:O	18:y:5030:ILE:HG22	1.90	0.72
1:A:159:LEU:HD12	1:A:159:LEU:O	1.90	0.72
2:B:121:GLU:HG3	7:H:12:ARG:HD3	1.71	0.72
2:B:213:GLY:O	2:B:217:ILE:HG13	1.89	0.72
3:C:287:THR:HG23	3:C:427:ALA:O	1.88	0.72
22:C:1025:CLA:HBB1	22:C:1025:CLA:HMB3	1.69	0.72
4:D:126:MET:HE2	4:D:146:PHE:HB3	1.71	0.72
26:a:6063:LHG:H322	22:k:6034:CLA:H13	1.70	0.72
2:b:5135:LEU:H	2:b:5135:LEU:HD12	1.53	0.72
3:c:5046:SER:OG	3:c:5141:GLU:HB2	1.89	0.72
22:d:6005:CLA:HBC2	22:d:6004:CLA:CBB	2.18	0.72
6:f:5024:HIS:HE1	31:f:6040:HEM:NC	1.88	0.72
22:A:1007:CLA:H43	22:C:1029:CLA:H191	1.68	0.72
22:B:1019:CLA:H193	22:B:1021:CLA:H72	1.70	0.72
3:C:400:PRO:C	3:C:401:LEU:HD22	2.15	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:K:1034:CLA:H42	22:K:1034:CLA:O2A	1.89	0.72
18:Y:26:ALA:O	18:Y:30:ILE:HG22	1.90	0.72
22:b:6011:CLA:HBB1	22:b:6011:CLA:H92	1.72	0.72
22:b:6012:CLA:CMB	22:b:6015:CLA:CBB	2.68	0.72
3:c:5056:HIS:O	3:c:5058:GLY:N	2.23	0.72
3:c:5140:LEU:O	3:c:5140:LEU:HD23	1.88	0.72
17:x:5034:PHE:O	17:x:5038:ILE:HG12	1.90	0.72
1:A:272:HIS:NE2	4:D:214:HIS:CE1	2.58	0.72
2:B:12:LEU:HD22	2:B:19:LEU:CD1	2.20	0.72
2:B:27:THR:OG1	22:B:1020:CLA:H43	1.90	0.72
22:B:1009:CLA:OBD	22:B:1010:CLA:HBB2	1.87	0.72
22:B:1021:CLA:C4	28:B:1060:MGE:H242	2.20	0.72
4:D:68:LEU:HD23	5:E:49:THR:HG21	1.72	0.72
6:F:36:ALA:O	6:F:39:ALA:HB3	1.89	0.72
10:K:37:PHE:CB	25:K:1051:BCR:H401	2.19	0.72
24:a:6043:PQ9:C45	28:d:6059:MGE:H8A2	2.20	0.72
2:b:5012:LEU:HD22	2:b:5019:LEU:CD1	2.19	0.72
22:b:6021:CLA:H112	28:b:6060:MGE:H132	1.72	0.72
22:b:6021:CLA:C4	28:b:6060:MGE:H242	2.20	0.72
3:c:5287:THR:HG21	3:c:5431:PHE:HB2	1.71	0.72
3:c:5464:GLU:OE1	3:c:5467:LEU:HD12	1.90	0.72
22:c:6029:CLA:O1A	22:c:6029:CLA:CBD	2.38	0.72
29:c:6056:DGD:HAV1	29:c:6057:DGD:C8A	2.20	0.72
16:v:5039:ASN:ND2	16:v:5040:SER:H	1.88	0.72
22:A:1006:CLA:HBB1	22:A:1006:CLA:CHC	2.19	0.72
2:B:176:GLY:HA3	2:B:266:GLU:OE2	1.90	0.72
2:B:247:PHE:O	2:B:251:VAL:HG23	1.90	0.72
2:B:354:LEU:C	2:B:355:PHE:HD2	1.97	0.72
22:B:1012:CLA:CMB	22:B:1015:CLA:CBB	2.68	0.72
22:B:1012:CLA:O1A	22:B:1020:CLA:H141	1.90	0.72
3:C:461:ARG:HG3	4:D:225:ASP:OD2	1.90	0.72
3:C:464:GLU:OE1	3:C:467:LEU:HD12	1.90	0.72
22:C:1029:CLA:O1A	22:C:1029:CLA:CBD	2.38	0.72
22:C:1030:CLA:C12	22:C:1030:CLA:C17	2.30	0.72
4:D:53:THR:HA	4:D:67:TYR:CD2	2.25	0.72
13:O:190:LEU:HD23	13:O:190:LEU:O	1.90	0.72
16:V:159:GLY:O	16:V:161:VAL:N	2.23	0.72
1:a:5272:HIS:CG	4:d:5218:VAL:HG11	2.24	0.72
2:b:5027:THR:HG23	22:b:6013:CLA:CBC	2.18	0.72
22:b:6023:CLA:H161	22:b:6023:CLA:C10	2.20	0.72
28:b:6060:MGE:CBB	28:b:6060:MGE:CGB	2.68	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5461:ARG:HG3	4:d:5225:ASP:OD2	1.90	0.72
22:d:6005:CLA:HBC2	22:d:6005:CLA:HHD	1.71	0.72
12:m:5032:GLN:HA	12:m:5032:GLN:HE21	1.55	0.72
15:u:5064:ILE:HB	15:u:5067:LEU:HD11	1.70	0.72
22:B:1016:CLA:C5	22:H:1017:CLA:C9	2.34	0.72
3:C:283:GLY:HA3	22:C:1026:CLA:HBC3	1.70	0.72
1:a:5116:ILE:HG23	1:a:5117:PHE:N	2.04	0.72
2:b:5125:ASP:HB3	2:b:5128:THR:OG1	1.88	0.72
2:b:5144:PHE:HE1	2:b:5210:ILE:HG23	1.55	0.72
22:c:6031:CLA:O1A	22:c:6033:CLA:H51	1.90	0.72
4:d:5305:ALA:HB1	13:o:5186:LYS:HD2	1.71	0.72
6:f:5040:MET:O	6:f:5042:PHE:N	2.22	0.72
13:o:5045:CYS:H	13:o:5072:GLN:NE2	1.88	0.72
15:u:5045:LEU:HD21	15:u:5075:LEU:CD1	2.19	0.72
2:B:222:PRO:HD2	22:H:1017:CLA:O1D	1.90	0.71
22:B:1023:CLA:H161	22:B:1023:CLA:C10	2.20	0.71
4:D:299:ILE:O	4:D:301:GLN:N	2.23	0.71
7:H:4:ARG:O	7:H:5:THR:HG23	1.90	0.71
12:M:32:GLN:HA	12:M:32:GLN:HE21	1.55	0.71
17:X:34:PHE:O	17:X:38:ILE:HG12	1.90	0.71
1:a:5156:ALA:CA	1:a:5160:ILE:HD12	2.17	0.71
22:c:6030:CLA:H43	25:c:6054:BCR:HC8	1.71	0.71
22:c:6035:CLA:C8	25:k:6052:BCR:H403	2.10	0.71
4:d:5018:LEU:O	4:d:5022:LEU:HG	1.90	0.71
4:d:5053:THR:HA	4:d:5067:TYR:CD2	2.25	0.71
4:d:5191:TRP:HE1	4:d:5197:HIS:HD2	1.36	0.71
1:A:135:TYR:CE1	3:C:449:ARG:HG3	2.25	0.71
26:A:1063:LHG:H321	22:K:1034:CLA:C15	2.21	0.71
2:B:103:LEU:HD11	2:B:107:LEU:HD11	1.69	0.71
2:B:222:PRO:HB2	2:B:225:LEU:CD1	2.20	0.71
2:B:482:ILE:O	2:B:483:ASP:HB3	1.90	0.71
4:D:18:LEU:O	4:D:22:LEU:HG	1.90	0.71
15:U:45:LEU:HD21	15:U:75:LEU:CD1	2.19	0.71
2:b:5009:HIS:HB2	22:b:6019:CLA:O1A	1.90	0.71
3:c:5048:LYS:NZ	3:c:5133:ALA:O	2.23	0.71
3:c:5092:ILE:H	3:c:5092:ILE:CD1	2.03	0.71
4:d:5249:ALA:HB1	24:d:6042:PQ9:H63	1.72	0.71
4:d:5299:ILE:O	4:d:5301:GLN:N	2.23	0.71
7:h:5056:ASP:O	7:h:5058:VAL:HG23	1.89	0.71
1:A:124:SER:O	1:A:127:MET:HB3	1.89	0.71
2:B:119:ASP:HB3	7:H:3:ARG:HH21	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:192:PRO:HG3	7:H:49:TYR:CE1	2.25	0.71
3:C:52:ALA:O	3:C:55:ALA:HB3	1.91	0.71
4:D:281:MET:HE2	4:D:281:MET:HA	1.70	0.71
14:T:3:THR:HA	14:T:6:TYR:CD2	2.25	0.71
16:V:39:ASN:ND2	16:V:40:SER:H	1.88	0.71
1:a:5124:SER:O	1:a:5127:MET:HB3	1.89	0.71
26:a:6063:LHG:O9	26:a:6063:LHG:HC62	1.77	0.71
22:b:6019:CLA:C9	28:l:6061:MGE:H9A2	2.18	0.71
3:c:5400:PRO:C	3:c:5401:LEU:HD22	2.15	0.71
22:c:6029:CLA:CMD	22:c:6031:CLA:CAB	2.69	0.71
10:k:5024:VAL:CG2	18:y:5025:ILE:HG22	2.18	0.71
1:A:301:ASN:ND2	3:C:407:VAL:HG11	2.05	0.71
2:B:373:LYS:C	2:B:374:ASN:HD22	1.99	0.71
22:B:1010:CLA:H172	29:B:1058:DGD:HA82	1.72	0.71
22:B:1016:CLA:C3	22:H:1017:CLA:H91	2.21	0.71
3:C:266:TRP:HE3	3:C:271:TYR:HH	1.37	0.71
28:D:1062:MGE:O1A	28:D:1062:MGE:H3B2	1.89	0.71
7:H:43:LEU:HD23	7:H:44:ILE:N	2.05	0.71
22:a:6003:CLA:H43	23:a:6038:PHO:C2B	2.21	0.71
25:a:6044:BCR:H331	25:a:6044:BCR:C8	2.19	0.71
2:b:5040:TYR:CD1	2:b:5040:TYR:C	2.67	0.71
2:b:5105:GLY:CA	25:b:6047:BCR:H402	2.19	0.71
2:b:5373:LYS:C	2:b:5374:ASN:HD22	1.99	0.71
2:b:5399:VAL:HG23	2:b:5417:VAL:HG13	1.72	0.71
25:b:6045:BCR:C8	25:b:6045:BCR:C33	2.66	0.71
22:c:6025:CLA:HHB	22:c:6025:CLA:C1	2.06	0.71
10:k:5032:PHE:HZ	25:k:6052:BCR:C36	1.96	0.71
28:B:1060:MGE:CBB	28:B:1060:MGE:CGB	2.68	0.71
3:C:56:HIS:O	3:C:58:GLY:N	2.23	0.71
22:C:1032:CLA:CHB	22:K:1034:CLA:HBB2	2.21	0.71
13:O:45:CYS:H	13:O:72:GLN:NE2	1.88	0.71
16:V:98:LEU:HD22	16:V:98:LEU:N	2.03	0.71
1:a:5202:VAL:HG11	22:a:6006:CLA:OBD	1.89	0.71
2:b:5016:PRO:HG2	2:b:5133:LEU:HD13	1.73	0.71
13:o:5190:LEU:HD23	13:o:5190:LEU:O	1.90	0.71
16:v:5159:GLY:O	16:v:5161:VAL:N	2.23	0.71
3:C:48:LYS:NZ	3:C:133:ALA:O	2.23	0.71
22:C:1025:CLA:C14	22:C:1031:CLA:HMB3	2.11	0.71
18:Y:43:ARG:HH21	18:Y:44:GLY:HA3	1.56	0.71
2:b:5005:TRP:C	2:b:5008:VAL:HG13	2.15	0.71
2:b:5475:PHE:CD1	4:d:5140:PRO:HD3	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5164:HIS:HA	3:c:5167:VAL:HB	1.71	0.71
4:d:5032:TRP:HA	4:d:5032:TRP:HE3	1.55	0.71
4:d:5126:MET:HE2	4:d:5146:PHE:HB3	1.71	0.71
1:A:192:ILE:CD1	1:A:293:MET:HE1	2.20	0.71
22:A:1003:CLA:H43	23:A:1038:PHO:C2B	2.21	0.71
2:B:5:TRP:C	2:B:8:VAL:HG13	2.15	0.71
29:C:1056:DGD:HAV1	29:C:1057:DGD:C8A	2.20	0.71
4:D:191:TRP:HE1	4:D:197:HIS:HD2	1.36	0.71
15:U:29:ASN:HD21	15:U:87:VAL:HA	1.55	0.71
15:U:59:GLU:C	15:U:61:VAL:H	1.98	0.71
2:b:5013:ILE:HG13	2:b:5014:ASN:N	2.06	0.71
2:b:5098:LEU:HD13	2:b:5098:LEU:C	2.16	0.71
2:b:5192:PRO:HG3	7:h:5049:TYR:CE1	2.25	0.71
3:c:5346:THR:HB	13:o:5038:GLY:HA2	1.73	0.71
22:c:6025:CLA:HED3	22:c:6025:CLA:CAD	2.21	0.71
4:d:5250:ASN:HB2	4:d:5260:ALA:CB	2.20	0.71
22:d:6005:CLA:O1A	22:d:6005:CLA:C4A	2.38	0.71
13:o:5206:GLU:H	13:o:5206:GLU:CD	1.99	0.71
15:u:5029:ASN:HD21	15:u:5087:VAL:HA	1.55	0.71
2:B:98:LEU:HD13	2:B:98:LEU:C	2.16	0.71
28:B:1060:MGE:H3B2	28:B:1060:MGE:C7B	2.17	0.71
3:C:92:ILE:H	3:C:92:ILE:CD1	2.03	0.71
4:D:140:PRO:O	4:D:142:ASN:N	2.24	0.71
4:D:315:TYR:CE2	4:D:319:LEU:HD12	2.25	0.71
7:H:41:PHE:O	7:H:45:ILE:HG13	1.91	0.71
1:a:5301:ASN:ND2	3:c:5407:VAL:HG11	2.06	0.71
22:b:6020:CLA:C16	22:b:6020:CLA:C11	2.69	0.71
3:c:5393:ALA:O	3:c:5397:THR:HG23	1.91	0.71
28:d:6062:MGE:H2A2	14:t:5020:ALA:HB1	1.73	0.71
5:e:5020:TRP:CZ2	9:j:5013:VAL:HG23	2.24	0.71
7:h:5043:LEU:HD23	7:h:5044:ILE:N	2.05	0.71
14:t:5003:THR:HA	14:t:5006:TYR:CD2	2.25	0.71
2:B:125:ASP:HB3	2:B:128:THR:OG1	1.89	0.71
3:C:117:VAL:HG12	3:C:118:HIS:H	1.56	0.71
22:C:1030:CLA:H43	25:C:1054:BCR:HC8	1.71	0.71
22:C:1031:CLA:O1A	22:C:1033:CLA:H51	1.90	0.71
4:D:103:ARG:HD3	4:D:106:GLN:NE2	2.05	0.71
4:D:305:ALA:HB1	13:O:186:LYS:HD2	1.71	0.71
4:d:5315:TYR:CE2	4:d:5319:LEU:HD12	2.25	0.71
28:d:6062:MGE:H3B2	28:d:6062:MGE:O1A	1.89	0.71
7:h:5035:MET:HA	25:h:6049:BCR:H331	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:u:5045:LEU:HD21	15:u:5075:LEU:HD12	1.73	0.71
26:A:1063:LHG:H341	26:A:1063:LHG:H383	0.79	0.71
2:B:9:HIS:HB2	22:B:1019:CLA:O1A	1.90	0.71
24:D:1042:PQ9:C39	28:L:1061:MGE:H241	2.21	0.71
8:I:14:PHE:C	8:I:14:PHE:CD1	2.67	0.71
22:K:1034:CLA:HBC3	22:K:1034:CLA:CHD	2.16	0.71
13:O:206:GLU:CD	13:O:206:GLU:H	1.99	0.71
2:b:5025:MET:C	2:b:5027:THR:N	2.44	0.71
2:b:5329:PRO:O	2:b:5331:ASN:N	2.24	0.71
3:c:5029:GLU:HA	3:c:5041:ARG:NH1	2.04	0.71
3:c:5049:LEU:HB3	3:c:5133:ALA:CA	2.18	0.71
22:c:6030:CLA:C4D	22:c:6030:CLA:CED	2.69	0.71
29:c:6057:DGD:HD4	9:j:5038:SER:O	1.91	0.71
4:d:5103:ARG:HD3	4:d:5106:GLN:NE2	2.05	0.71
7:h:5044:ILE:O	7:h:5048:ILE:HG13	1.90	0.71
22:k:6034:CLA:H42	22:k:6034:CLA:O2A	1.89	0.71
12:m:5008:PHE:HE2	14:t:5001:MET:CG	2.04	0.71
2:B:16:PRO:HG2	2:B:133:LEU:HD13	1.73	0.70
3:C:275:SER:HB3	22:C:1033:CLA:HED3	1.72	0.70
22:C:1025:CLA:OBD	22:C:1025:CLA:CED	2.32	0.70
24:a:6043:PQ9:H212	23:d:6039:PHO:HED1	1.73	0.70
2:b:5152:GLY:O	2:b:5156:PHE:HB2	1.90	0.70
2:b:5284:ILE:HG23	2:b:5305:ILE:HD13	1.73	0.70
1:A:45:THR:HG23	1:A:46:ILE:N	2.05	0.70
24:A:1043:PQ9:C45	28:D:1059:MGE:H8A2	2.20	0.70
22:B:1022:CLA:OBD	22:B:1022:CLA:HED2	1.90	0.70
22:a:6006:CLA:C17	25:d:6050:BCR:C27	2.66	0.70
2:b:5010:THR:O	2:b:5013:ILE:HG22	1.91	0.70
2:b:5176:GLY:HA3	2:b:5266:GLU:OE2	1.90	0.70
3:c:5284:PHE:HB3	29:c:6055:DGD:C7B	2.22	0.70
3:c:5417:VAL:CG1	16:v:5068:VAL:CG1	2.65	0.70
22:c:6025:CLA:OBD	22:c:6025:CLA:CED	2.32	0.70
22:c:6032:CLA:CHB	22:k:6034:CLA:HBB2	2.21	0.70
6:f:5045:ARG:HA	6:f:5045:ARG:NE	1.97	0.70
7:h:5050:ASN:O	7:h:5051:SER:HB2	1.89	0.70
2:B:122:LEU:HD21	7:H:11:LEU:C	2.16	0.70
2:B:249:ALA:HB1	2:B:459:ALA:HB2	1.73	0.70
22:B:1019:CLA:CHA	22:B:1019:CLA:CBA	2.69	0.70
23:D:1039:PHO:CMA	22:D:1004:CLA:H142	2.18	0.70
7:H:44:ILE:O	7:H:48:ILE:HG13	1.90	0.70
13:O:78:VAL:HG21	13:O:142:ILE:HG21	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:O:214:LYS:HB3	13:O:251:MET:HB3	1.73	0.70
1:a:5135:TYR:CE1	3:c:5449:ARG:HG3	2.25	0.70
1:a:5140:ARG:NH1	1:a:5140:ARG:HB3	2.06	0.70
10:k:5011:LEU:CD1	10:k:5022:VAL:HG21	2.21	0.70
1:A:269:ARG:HD3	4:D:222:LEU:CD1	2.20	0.70
1:A:272:HIS:CG	4:D:218:VAL:HG11	2.26	0.70
24:A:1043:PQ9:H212	23:D:1039:PHO:HED1	1.73	0.70
2:B:249:ALA:HB2	22:B:1012:CLA:HBC1	1.73	0.70
3:C:188:THR:HG22	3:C:300:GLU:OE2	1.91	0.70
3:C:346:THR:HB	13:O:38:GLY:HA2	1.73	0.70
1:a:5339:PHE:HB3	1:a:5340:PRO:CD	2.21	0.70
2:b:5027:THR:OG1	22:b:6020:CLA:H43	1.90	0.70
22:b:6016:CLA:C3	22:h:6017:CLA:H91	2.21	0.70
3:c:5282:MET:HA	3:c:5285:ILE:HD12	1.74	0.70
4:d:5148:ALA:HB1	4:d:5279:LEU:CD1	2.22	0.70
7:h:5017:GLU:HG3	7:h:5020:LYS:HE2	1.73	0.70
7:h:5041:PHE:O	7:h:5045:ILE:HG13	1.91	0.70
13:o:5076:PHE:HE2	13:o:5132:VAL:HG21	1.56	0.70
13:o:5266:TYR:CD1	13:o:5267:ALA:N	2.60	0.70
1:A:39:PRO:HA	1:A:42:LEU:HB2	1.73	0.70
1:A:140:ARG:HB3	1:A:140:ARG:NH1	2.06	0.70
1:A:324:ALA:HB2	4:D:329:MET:SD	2.32	0.70
22:B:1020:CLA:C16	22:B:1020:CLA:C11	2.69	0.70
3:C:348:GLU:OE2	3:C:349:ILE:HG13	1.92	0.70
4:D:253:TRP:CA	4:D:256:ILE:HG22	2.15	0.70
4:D:265:ARG:HG3	4:D:265:ARG:NH1	2.04	0.70
6:F:22:ALA:O	6:F:24:HIS:N	2.25	0.70
13:O:266:TYR:CD1	13:O:267:ALA:N	2.60	0.70
1:a:5039:PRO:HA	1:a:5042:LEU:HB2	1.74	0.70
1:a:5192:ILE:CD1	1:a:5293:MET:HE1	2.20	0.70
1:a:5330:VAL:HG12	4:d:5348:ARG:HA	1.73	0.70
26:a:6063:LHG:C29	22:c:6032:CLA:H71	2.21	0.70
22:b:6022:CLA:OBD	22:b:6022:CLA:HED2	1.90	0.70
22:b:6023:CLA:HMC3	22:b:6023:CLA:HBC2	1.73	0.70
3:c:5088:LEU:HD11	22:c:6027:CLA:HBC2	1.74	0.70
4:d:5068:LEU:HD23	5:e:5049:THR:HG21	1.72	0.70
1:A:84:PRO:HA	1:A:112:TYR:CD1	2.26	0.70
1:A:330:VAL:HG12	4:D:348:ARG:HA	1.73	0.70
22:B:1011:CLA:C3D	22:B:1013:CLA:C2	2.70	0.70
25:B:1045:BCR:H361	25:B:1045:BCR:C37	2.19	0.70
22:C:1025:CLA:C1	22:C:1025:CLA:H3A	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:50:THR:HG21	25:D:1050:BCR:H333	1.74	0.70
2:b:5040:TYR:CE1	22:b:6015:CLA:HED1	2.26	0.70
2:b:5092:SER:O	2:b:5094:GLU:N	2.24	0.70
2:b:5222:PRO:HD2	22:h:6017:CLA:O1D	1.90	0.70
2:b:5247:PHE:O	2:b:5251:VAL:HG23	1.90	0.70
2:b:5475:PHE:HD2	2:b:5475:PHE:N	1.90	0.70
22:b:6013:CLA:HAB	22:b:6014:CLA:H52	1.72	0.70
22:b:6019:CLA:CHA	22:b:6019:CLA:CBA	2.69	0.70
5:e:5057:ALA:HB3	5:e:5060:GLN:HG2	1.73	0.70
13:o:5214:LYS:HB3	13:o:5251:MET:HB3	1.73	0.70
16:v:5105:PRO:CG	16:v:5115:ALA:HA	2.21	0.70
3:C:284:PHE:HB3	29:C:1055:DGD:C7B	2.22	0.70
28:D:1062:MGE:H2A2	14:T:20:ALA:HB1	1.73	0.70
7:H:50:ASN:O	7:H:51:SER:HB2	1.90	0.70
10:K:11:LEU:CD1	10:K:22:VAL:HG21	2.21	0.70
16:V:105:PRO:CG	16:V:115:ALA:HA	2.21	0.70
1:a:5084:PRO:HA	1:a:5112:TYR:CD1	2.26	0.70
22:a:6003:CLA:H71	22:a:6003:CLA:H43	1.67	0.70
2:b:5172:TYR:HD2	2:b:5287:ARG:HH22	1.40	0.70
22:b:6011:CLA:C3D	22:b:6013:CLA:C2	2.70	0.70
3:c:5348:GLU:OE2	3:c:5349:ILE:HG13	1.92	0.70
4:d:5140:PRO:O	4:d:5142:ASN:N	2.24	0.70
24:d:6042:PQ9:C39	28:l:6061:MGE:H241	2.21	0.70
5:e:5034:GLY:HA2	6:f:5032:PHE:HE1	1.56	0.70
18:y:5045:ASN:HD22	18:y:5045:ASN:C	2.00	0.70
26:A:1063:LHG:C38	26:A:1063:LHG:C34	2.40	0.70
2:B:40:TYR:CE1	22:B:1015:CLA:HED1	2.26	0.70
2:B:92:SER:O	2:B:94:GLU:N	2.24	0.70
22:B:1014:CLA:HBC2	22:B:1014:CLA:CHD	2.11	0.70
3:C:187:ASP:HB3	3:C:190:ALA:HB2	1.73	0.70
3:C:282:MET:HA	3:C:285:ILE:HD12	1.74	0.70
22:C:1029:CLA:H43	25:C:1054:BCR:C32	2.22	0.70
4:D:209:LEU:HD22	24:D:1042:PQ9:H192	1.73	0.70
2:b:5122:LEU:HD21	7:h:5011:LEU:C	2.15	0.70
2:b:5482:ILE:O	2:b:5483:ASP:HB3	1.90	0.70
3:c:5188:THR:HG22	3:c:5300:GLU:OE2	1.91	0.70
3:c:5438:LEU:O	3:c:5438:LEU:HD13	1.92	0.70
4:d:5050:THR:HG21	25:d:6050:BCR:H333	1.74	0.70
22:k:6034:CLA:HHD	22:k:6034:CLA:CBC	2.17	0.70
1:A:212:CYS:O	4:D:271:MET:HB3	1.92	0.70
2:B:40:TYR:C	2:B:40:TYR:CD1	2.67	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:172:TYR:HD2	2:B:287:ARG:HH22	1.40	0.70
2:B:329:PRO:O	2:B:331:ASN:N	2.24	0.70
22:C:1030:CLA:CED	22:C:1030:CLA:C4D	2.69	0.70
4:D:32:TRP:HA	4:D:32:TRP:HE3	1.55	0.70
4:D:148:ALA:HB1	4:D:279:LEU:CD1	2.22	0.70
4:D:329:MET:C	4:D:331:PRO:HD2	2.17	0.70
22:D:1005:CLA:HBC2	22:D:1004:CLA:CBB	2.18	0.70
5:E:37:PHE:HE1	5:E:46:VAL:HG21	1.56	0.70
7:H:35:MET:HA	25:H:1049:BCR:H331	1.73	0.70
2:b:5028:ALA:O	2:b:5104:SER:HB2	1.92	0.70
2:b:5475:PHE:CD1	4:d:5140:PRO:CD	2.75	0.70
4:d:5209:LEU:HD22	24:d:6042:PQ9:H192	1.73	0.70
4:d:5265:ARG:HH11	4:d:5265:ARG:CG	2.03	0.70
25:k:6051:BCR:C23	25:k:6051:BCR:C40	2.64	0.70
18:y:5043:ARG:HH21	18:y:5044:GLY:HA3	1.56	0.70
1:A:39:PRO:HD2	22:A:1007:CLA:HBB2	1.74	0.70
2:B:323:GLY:HA3	2:B:326:ARG:HG3	1.74	0.70
2:B:399:VAL:HG23	2:B:417:VAL:HG13	1.72	0.70
22:B:1011:CLA:O1D	22:B:1013:CLA:C1	2.35	0.70
22:B:1019:CLA:HMD2	28:B:1060:MGE:H1G1	1.74	0.70
3:C:342:MET:SD	3:C:356:MET:HE2	2.32	0.70
28:D:1062:MGE:O6D	11:L:15:THR:HG21	1.92	0.70
13:O:215:ARG:HH11	13:O:215:ARG:HG2	1.57	0.70
1:a:5045:THR:HG23	1:a:5046:ILE:N	2.05	0.70
1:a:5124:SER:OG	1:a:5151:LEU:HD11	1.92	0.70
3:c:5052:ALA:O	3:c:5055:ALA:HB3	1.91	0.70
3:c:5187:ASP:HB3	3:c:5190:ALA:HB2	1.73	0.70
22:d:6005:CLA:HAA2	24:d:6042:PQ9:H412	0.75	0.70
11:l:5014:ARG:CA	12:m:5026:TYR:HE1	2.05	0.70
16:v:5064:ALA:HB1	16:v:5068:VAL:HA	1.74	0.70
1:A:272:HIS:CD2	4:D:214:HIS:CE1	2.80	0.69
3:C:393:ALA:O	3:C:397:THR:HG23	1.91	0.69
29:C:1057:DGD:HD4	9:J:38:SER:O	1.91	0.69
4:D:249:ALA:HB1	24:D:1042:PQ9:H63	1.72	0.69
7:H:14:LEU:HD12	7:H:14:LEU:H	1.57	0.69
12:M:9:ILE:CG1	12:m:5008:PHE:HB3	2.21	0.69
1:a:5324:ALA:HB2	4:d:5329:MET:SD	2.32	0.69
2:b:5031:ALA:HB2	22:b:6013:CLA:HAC1	1.74	0.69
2:b:5277:SER:O	2:b:5279:TYR:N	2.23	0.69
7:h:5012:ARG:NH1	7:h:5015:ASN:HB3	2.03	0.69
12:m:5008:PHE:HE2	14:t:5001:MET:HG3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5078:VAL:HG21	13:o:5142:ILE:HG21	1.73	0.69
2:B:28:ALA:O	2:B:104:SER:HB2	1.92	0.69
3:C:199:ILE:H	3:C:199:ILE:HD12	1.58	0.69
3:C:450:ALA:CB	3:C:456:GLU:HB3	2.22	0.69
22:C:1029:CLA:CMD	22:C:1031:CLA:CAB	2.68	0.69
5:E:57:ALA:HB3	5:E:60:GLN:HG2	1.73	0.69
7:H:17:GLU:HG3	7:H:20:LYS:HE2	1.73	0.69
1:a:5344:ALA:HB1	3:c:5357:ARG:NH2	2.08	0.69
22:b:6009:CLA:HAA2	25:h:6049:BCR:H363	1.74	0.69
22:b:6012:CLA:HMB1	22:b:6015:CLA:CBB	2.20	0.69
3:c:5166:ILE:HD12	3:c:5249:ILE:CD1	2.22	0.69
3:c:5295:THR:HG22	3:c:5296:VAL:HG13	1.74	0.69
1:A:124:SER:OG	1:A:151:LEU:HD11	1.92	0.69
2:B:363:PHE:CD2	2:B:363:PHE:N	2.59	0.69
2:B:475:PHE:CD1	4:D:140:PRO:CD	2.75	0.69
22:B:1009:CLA:CBA	22:B:1009:CLA:CHA	2.70	0.69
4:D:26:ARG:HG2	4:D:26:ARG:O	1.92	0.69
13:O:76:PHE:HE2	13:O:132:VAL:HG21	1.56	0.69
3:c:5327:ASN:HD22	3:c:5330:SER:H	1.41	0.69
22:d:6005:CLA:CBC	22:d:6004:CLA:CBB	2.64	0.69
15:u:5029:ASN:O	15:u:5097:ARG:NE	2.24	0.69
15:u:5059:GLU:C	15:u:5061:VAL:H	1.98	0.69
1:A:228:THR:HG22	1:A:229:GLU:N	2.07	0.69
2:B:10:THR:O	2:B:13:ILE:HG22	1.91	0.69
2:B:13:ILE:HG13	2:B:14:ASN:N	2.06	0.69
2:B:144:PHE:HE1	2:B:210:ILE:HG23	1.55	0.69
22:B:1018:CLA:H102	22:B:1023:CLA:CBA	2.23	0.69
22:B:1019:CLA:HBC3	22:B:1019:CLA:HMC3	1.74	0.69
3:C:327:ASN:HD22	3:C:330:SER:H	1.41	0.69
3:C:438:LEU:O	3:C:438:LEU:HD13	1.92	0.69
22:C:1025:CLA:HED3	22:C:1025:CLA:CAD	2.21	0.69
4:D:57:SER:OG	4:D:65:SER:HB3	1.92	0.69
4:D:101:PHE:O	4:D:105:CYS:HB2	1.92	0.69
25:T:6046:BCR:C40	2:b:5036:SER:HB3	2.15	0.69
1:a:5183:MET:SD	22:d:6005:CLA:HAC2	2.31	0.69
24:a:6043:PQ9:H37	24:a:6043:PQ9:C28	2.22	0.69
2:b:5030:VAL:HG12	22:b:6013:CLA:HHD	1.74	0.69
22:b:6009:CLA:CBA	22:b:6009:CLA:CHA	2.70	0.69
3:c:5450:ALA:CB	3:c:5456:GLU:HB3	2.22	0.69
22:c:6025:CLA:C1	22:c:6025:CLA:H3A	2.22	0.69
4:d:5057:SER:OG	4:d:5065:SER:HB3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5091:LEU:HD23	4:d:5093:TRP:NE1	2.07	0.69
24:d:6042:PQ9:C30	24:d:6042:PQ9:C34	2.67	0.69
10:k:5032:PHE:CE1	25:k:6052:BCR:C23	2.75	0.69
1:A:344:ALA:HB1	3:C:357:ARG:NH2	2.08	0.69
4:D:91:LEU:HD23	4:D:93:TRP:NE1	2.07	0.69
8:I:21:PHE:HD1	8:I:24:LEU:HD12	1.58	0.69
10:K:24:VAL:CG2	18:Y:25:ILE:HG22	2.18	0.69
16:V:38:LEU:HB2	16:V:45:ILE:CD1	2.23	0.69
1:a:5212:CYS:O	4:d:5271:MET:HB3	1.92	0.69
3:c:5049:LEU:HD11	22:c:6035:CLA:HMA1	1.73	0.69
3:c:5342:MET:SD	3:c:5356:MET:HE2	2.32	0.69
6:f:5022:ALA:O	6:f:5024:HIS:N	2.25	0.69
8:i:5021:PHE:HD1	8:i:5024:LEU:HD12	1.58	0.69
10:k:5032:PHE:HD1	25:k:6052:BCR:H383	1.55	0.69
16:v:5151:ILE:HG12	16:v:5152:LEU:H	1.56	0.69
1:A:140:ARG:CB	1:A:140:ARG:HH11	2.06	0.69
1:A:183:MET:SD	22:D:1005:CLA:HAC2	2.31	0.69
22:B:1021:CLA:H112	28:B:1060:MGE:H132	1.72	0.69
3:C:100:GLY:HA2	3:C:196:VAL:CG1	2.23	0.69
17:X:12:ILE:HA	17:X:16:LEU:HD22	1.74	0.69
2:b:5040:TYR:C	2:b:5040:TYR:HD1	2.01	0.69
22:b:6012:CLA:O1A	22:b:6020:CLA:H141	1.90	0.69
28:b:6060:MGE:H211	28:b:6060:MGE:H263	1.75	0.69
4:d:5126:MET:HE3	4:d:5146:PHE:HD2	1.57	0.69
4:d:5198:MET:SD	22:d:6005:CLA:HED3	2.33	0.69
28:d:6062:MGE:O6D	11:l:5015:THR:HG21	1.92	0.69
1:A:244:GLU:HG3	4:D:242:GLU:HA	1.75	0.69
22:A:1003:CLA:C4	23:A:1038:PHO:C3B	2.70	0.69
3:C:453:ALA:HB2	8:I:31:ASN:HD22	1.57	0.69
4:D:126:MET:HE3	4:D:146:PHE:HD2	1.57	0.69
4:D:184:PHE:CE2	4:D:188:PHE:CD1	2.81	0.69
1:a:5140:ARG:CB	1:a:5140:ARG:HH11	2.06	0.69
22:b:6010:CLA:H172	29:b:6058:DGD:HA82	1.72	0.69
22:c:6035:CLA:HBB1	22:c:6035:CLA:CHC	2.14	0.69
4:d:5023:LYS:HE3	4:d:5135:LEU:HD11	1.75	0.69
4:d:5169:PHE:CA	27:d:6068:IOD:I	3.11	0.69
13:o:5215:ARG:HG2	13:o:5215:ARG:HH11	1.57	0.69
24:A:1043:PQ9:C28	24:A:1043:PQ9:H37	2.22	0.69
2:B:30:VAL:HG12	22:B:1013:CLA:HHD	1.74	0.69
3:C:45:LEU:HD13	3:C:139:THR:OG1	1.93	0.69
3:C:167:VAL:HG12	3:C:168:LEU:CD1	2.20	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:198:MET:SD	22:D:1005:CLA:HED3	2.33	0.69
9:J:21:VAL:O	9:J:25:VAL:HB	1.92	0.69
9:J:25:VAL:HA	9:J:28:PHE:HD2	1.58	0.69
25:K:1051:BCR:C8	25:K:1051:BCR:H321	2.23	0.69
15:U:45:LEU:HD21	15:U:75:LEU:HD12	1.73	0.69
16:V:50:LYS:HE2	16:V:50:LYS:HA	1.73	0.69
18:Y:45:ASN:HD22	18:Y:45:ASN:C	2.00	0.69
1:a:5254:TYR:CD1	1:a:5255:PHE:N	2.61	0.69
3:c:5453:ALA:HB2	8:i:5031:ASN:HD22	1.57	0.69
22:c:6030:CLA:H121	22:c:6030:CLA:H171	1.72	0.69
4:d:5210:LEU:CD2	4:d:5274:VAL:HG21	2.23	0.69
7:h:5014:LEU:HD12	7:h:5014:LEU:H	1.57	0.69
13:o:5101:THR:O	13:o:5130:GLN:HG3	1.93	0.69
16:v:5038:LEU:HB2	16:v:5045:ILE:CD1	2.23	0.69
16:v:5066:CYS:SG	31:v:6041:HEM:HAC	2.33	0.69
1:A:272:HIS:CB	4:D:218:VAL:HG11	2.23	0.69
2:B:69:LEU:HD11	22:B:1011:CLA:OBD	1.93	0.69
2:B:152:GLY:O	2:B:156:PHE:HB2	1.91	0.69
2:B:284:ILE:HG23	2:B:305:ILE:HD13	1.73	0.69
2:B:475:PHE:N	2:B:475:PHE:HD2	1.90	0.69
22:B:1011:CLA:HMD3	22:B:1014:CLA:HMB2	1.74	0.69
22:B:1021:CLA:HMA3	22:B:1021:CLA:C2	2.23	0.69
3:C:81:MET:HG3	3:C:86:LEU:HD13	1.73	0.69
3:C:417:VAL:CG1	16:V:68:VAL:CB	2.70	0.69
22:C:1035:CLA:HBB1	22:C:1035:CLA:CHC	2.14	0.69
4:D:185:PHE:CD1	22:D:1004:CLA:HMD2	2.28	0.69
4:D:265:ARG:HH11	4:D:265:ARG:CG	2.03	0.69
22:D:1008:CLA:HBB1	22:D:1008:CLA:CHC	2.13	0.69
8:I:24:LEU:C	8:I:26:GLY:H	2.01	0.69
16:V:66:CYS:SG	31:V:1041:HEM:HAC	2.33	0.69
16:V:151:ILE:HG12	16:V:152:LEU:H	1.56	0.69
22:b:6011:CLA:HMD3	22:b:6014:CLA:HMB2	1.74	0.69
22:b:6018:CLA:H102	22:b:6023:CLA:CBA	2.23	0.69
3:c:5275:SER:HB3	22:c:6033:CLA:HED3	1.71	0.69
4:d:5221:THR:HG23	4:d:5248:THR:HB	1.75	0.69
4:d:5265:ARG:HG3	4:d:5265:ARG:NH1	2.04	0.69
16:v:5050:LYS:HE2	16:v:5050:LYS:HA	1.73	0.69
22:B:1012:CLA:HMB1	22:B:1015:CLA:CBB	2.20	0.69
22:B:1013:CLA:HAB	22:B:1014:CLA:H52	1.72	0.69
3:C:91:HIS:NE2	22:C:1026:CLA:HED1	2.07	0.69
22:C:1032:CLA:O2D	22:C:1032:CLA:H2A	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:C:1057:DGD:HAS2	28:D:1059:MGE:H232	1.74	0.69
4:D:210:LEU:CD2	4:D:274:VAL:HG21	2.23	0.69
11:L:4:ASN:OD1	11:L:5:PRO:HD2	1.93	0.69
2:b:5069:LEU:HD11	22:b:6011:CLA:OBD	1.93	0.69
2:b:5119:ASP:OD2	7:h:5002:ALA:HA	1.93	0.69
2:b:5363:PHE:HD2	2:b:5363:PHE:N	1.91	0.69
3:c:5056:HIS:HA	3:c:5059:LEU:CD1	2.23	0.69
3:c:5417:VAL:CG1	16:v:5068:VAL:CB	2.70	0.69
4:d:5329:MET:C	4:d:5331:PRO:HD2	2.17	0.69
22:d:6008:CLA:C19	22:d:6008:CLA:H141	2.18	0.69
25:h:6049:BCR:HC8	25:h:6049:BCR:H321	1.75	0.69
10:k:5028:ILE:O	10:k:5029:PRO:C	2.36	0.69
2:B:13:ILE:HD12	2:B:234:ILE:CG2	2.23	0.68
3:C:457:LYS:NZ	4:D:228:GLY:HA2	2.08	0.68
22:C:1035:CLA:C8	25:C:1052:BCR:H403	2.10	0.68
4:D:207:GLY:CA	4:D:274:VAL:HG11	2.23	0.68
22:K:1034:CLA:CGD	22:K:1034:CLA:CAA	2.65	0.68
16:V:64:ALA:HB1	16:V:68:VAL:HA	1.74	0.68
16:V:66:CYS:O	16:V:73:LYS:HG3	1.93	0.68
2:b:5249:ALA:HB1	2:b:5459:ALA:HB2	1.73	0.68
3:c:5199:ILE:H	3:c:5199:ILE:HD12	1.58	0.68
3:c:5278:ALA:O	3:c:5282:MET:HE2	1.93	0.68
4:d:5109:GLY:O	4:d:5111:TRP:N	2.27	0.68
4:d:5185:PHE:CD1	22:d:6004:CLA:HMD2	2.28	0.68
9:j:5021:VAL:O	9:j:5025:VAL:HB	1.92	0.68
9:j:5025:VAL:HA	9:j:5028:PHE:HD2	1.58	0.68
1:A:254:TYR:CD1	1:A:255:PHE:N	2.61	0.68
2:B:277:SER:O	2:B:279:TYR:N	2.23	0.68
22:C:1030:CLA:CAD	22:C:1030:CLA:CED	2.71	0.68
4:D:92:LEU:O	4:D:99:GLY:N	2.26	0.68
5:E:34:GLY:HA2	6:F:32:PHE:HE1	1.56	0.68
1:a:5210:LEU:HA	23:d:6039:PHO:HAC2	1.75	0.68
22:a:6003:CLA:C4	23:a:6038:PHO:C3B	2.70	0.68
2:b:5249:ALA:HB2	22:b:6012:CLA:HBC1	1.73	0.68
22:b:6011:CLA:C2	22:b:6013:CLA:H92	2.22	0.68
22:c:6029:CLA:H43	25:c:6054:BCR:C32	2.22	0.68
23:d:6039:PHO:HHD	23:d:6039:PHO:CBC	2.23	0.68
25:k:6051:BCR:H321	25:k:6051:BCR:C8	2.23	0.68
22:A:1003:CLA:H203	22:D:1005:CLA:H92	1.75	0.68
2:B:363:PHE:N	2:B:363:PHE:HD2	1.91	0.68
22:B:1023:CLA:HMC3	22:B:1023:CLA:HBC2	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:B:1045:BCR:C8	25:B:1045:BCR:C33	2.66	0.68
28:B:1060:MGE:H211	28:B:1060:MGE:H263	1.75	0.68
4:D:23:LYS:HE3	4:D:135:LEU:HD11	1.75	0.68
4:D:221:THR:O	4:D:244:TYR:HA	1.93	0.68
22:D:1008:CLA:HMC3	22:D:1008:CLA:CBC	2.23	0.68
1:a:5039:PRO:HD2	22:a:6007:CLA:HBB2	1.74	0.68
26:a:6063:LHG:H321	22:k:6034:CLA:C15	2.21	0.68
2:b:5025:MET:HG3	25:b:6045:BCR:H391	1.74	0.68
3:c:5049:LEU:HD21	22:c:6035:CLA:CMA	2.15	0.68
3:c:5081:MET:HG3	3:c:5086:LEU:HD13	1.73	0.68
3:c:5091:HIS:NE2	22:c:6026:CLA:HED1	2.07	0.68
3:c:5348:GLU:CD	3:c:5373:ASN:HB3	2.19	0.68
22:c:6032:CLA:H2A	22:c:6032:CLA:O2D	1.92	0.68
4:d:5045:LEU:HG	4:d:5049:LEU:CD1	2.24	0.68
22:k:6034:CLA:O2A	22:k:6034:CLA:CHA	2.41	0.68
25:k:6052:BCR:H312	20:z:5009:LEU:HD11	1.75	0.68
11:l:5008:GLN:H	11:l:5008:GLN:HE21	1.41	0.68
15:u:5045:LEU:HD11	15:u:5075:LEU:HD11	1.75	0.68
22:A:1006:CLA:C16	24:A:1043:PQ9:H443	2.22	0.68
2:B:36:SER:HB3	25:t:1046:BCR:C40	2.15	0.68
2:B:394:GLN:HB3	15:U:17:LEU:CD2	2.23	0.68
22:B:1009:CLA:HBB1	22:B:1009:CLA:CHC	2.15	0.68
25:B:1047:BCR:H14C	25:t:1046:BCR:C39	2.24	0.68
3:C:88:LEU:HD11	22:C:1027:CLA:HBC2	1.74	0.68
10:K:43:VAL:O	10:K:43:VAL:HG12	1.94	0.68
15:U:45:LEU:HD11	15:U:75:LEU:HD11	1.75	0.68
1:a:5269:ARG:HD3	4:d:5222:LEU:CD1	2.20	0.68
2:b:5327:THR:HG21	12:m:5004:ASN:ND2	2.09	0.68
3:c:5334:PRO:HA	13:o:5179:THR:CB	2.23	0.68
29:c:6056:DGD:HBG2	29:c:6056:DGD:HBF2	0.81	0.68
4:d:5092:LEU:O	4:d:5099:GLY:N	2.26	0.68
5:e:5075:GLN:O	5:e:5076:VAL:C	2.36	0.68
1:A:279:ARG:CZ	1:A:283:VAL:CG2	2.71	0.68
2:B:10:THR:O	2:B:11:VAL:C	2.36	0.68
2:B:25:MET:HG3	25:B:1045:BCR:H391	1.74	0.68
25:B:1047:BCR:H331	25:B:1047:BCR:C8	2.14	0.68
3:C:117:VAL:HA	25:Z:1053:BCR:H343	1.76	0.68
4:D:59:TYR:O	5:E:66:VAL:HG23	1.94	0.68
4:D:109:GLY:O	4:D:111:TRP:N	2.27	0.68
11:L:14:ARG:CA	12:M:26:TYR:HE1	2.05	0.68
22:b:6011:CLA:O1A	22:b:6011:CLA:C3A	2.30	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5089:ILE:HG23	3:c:5111:PHE:CE2	2.28	0.68
3:c:5167:VAL:HG12	3:c:5168:LEU:CD1	2.20	0.68
22:c:6031:CLA:CBC	22:c:6031:CLA:CHD	2.71	0.68
5:e:5037:PHE:HE1	5:e:5046:VAL:HG21	1.57	0.68
5:e:5079:PHE:O	5:e:5083:LEU:HD13	1.94	0.68
12:m:5009:ILE:HD12	12:m:5009:ILE:H	1.58	0.68
18:y:5021:GLN:O	18:y:5025:ILE:HG23	1.94	0.68
2:B:40:TYR:C	2:B:40:TYR:HD1	2.01	0.68
2:B:119:ASP:OD2	7:H:2:ALA:HA	1.94	0.68
2:B:327:THR:HG21	12:M:4:ASN:ND2	2.09	0.68
3:C:49:LEU:HB3	3:C:133:ALA:CA	2.18	0.68
4:D:254:SER:OG	4:D:260:ALA:HB2	1.93	0.68
13:O:101:THR:O	13:O:130:GLN:HG3	1.93	0.68
13:O:190:LEU:C	13:O:190:LEU:CD2	2.67	0.68
1:a:5256:GLY:C	1:a:5261:GLN:HA	2.18	0.68
2:b:5323:GLY:HA3	2:b:5326:ARG:HG3	1.74	0.68
3:c:5045:LEU:HD13	3:c:5139:THR:OG1	1.93	0.68
3:c:5199:ILE:HG12	3:c:5234:VAL:HG11	1.76	0.68
4:d:5184:PHE:CE2	4:d:5188:PHE:CD1	2.81	0.68
7:h:5011:LEU:C	7:h:5013:PRO:HD2	2.19	0.68
14:t:5012:CYS:CB	27:t:6066:IOD:I	3.07	0.68
17:x:5012:ILE:HA	17:x:5016:LEU:HD22	1.74	0.68
1:A:47:CYS:SG	25:A:1044:BCR:H373	2.34	0.68
1:A:196:PRO:HG3	3:C:404:LEU:CD1	2.23	0.68
1:A:330:VAL:CG1	4:D:348:ARG:HA	2.24	0.68
2:B:32:GLY:HA3	25:B:1047:BCR:C36	2.24	0.68
4:D:15:PHE:CE1	4:D:32:TRP:HZ2	2.12	0.68
4:D:352:LEU:HD23	4:D:352:LEU:H	1.59	0.68
7:H:13:PRO:HG2	7:H:14:LEU:H	1.59	0.68
1:a:5047:CYS:SG	25:a:6044:BCR:H373	2.34	0.68
1:a:5062:GLY:HA2	1:a:5087:ASN:HB2	1.76	0.68
2:b:5363:PHE:N	2:b:5363:PHE:CD2	2.59	0.68
22:b:6019:CLA:C19	22:b:6021:CLA:C7	2.71	0.68
4:d:5188:PHE:CD2	4:d:5326:ARG:HG2	2.29	0.68
13:o:5082:PRO:CG	13:o:5089:ALA:CB	2.71	0.68
13:o:5196:SER:OG	13:o:5197:ALA:N	2.26	0.68
2:B:105:GLY:CA	25:B:1047:BCR:H402	2.19	0.68
22:B:1009:CLA:HAA2	25:H:1049:BCR:H363	1.74	0.68
22:B:1019:CLA:H193	22:B:1021:CLA:C7	2.24	0.68
3:C:295:THR:HG22	3:C:296:VAL:HG13	1.74	0.68
4:D:267:LEU:HD22	4:D:268:HIS:CE1	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5010:THR:O	2:b:5011:VAL:C	2.37	0.68
22:b:6019:CLA:H193	22:b:6021:CLA:C7	2.24	0.68
22:b:6019:CLA:HBC3	22:b:6019:CLA:HMC3	1.74	0.68
3:c:5117:VAL:HA	25:z:6053:BCR:H343	1.76	0.68
3:c:5420:VAL:HB	3:c:5425:TRP:NE1	2.09	0.68
3:c:5451:ALA:HA	3:c:5456:GLU:HG2	1.75	0.68
4:d:5043:LEU:HD23	4:d:5043:LEU:N	2.08	0.68
4:d:5050:THR:CG2	25:d:6050:BCR:H333	2.23	0.68
22:d:6008:CLA:HMC3	22:d:6008:CLA:CBC	2.23	0.68
25:d:6050:BCR:C21	28:d:6059:MGE:C3A	2.72	0.68
10:k:5043:VAL:HG12	10:k:5043:VAL:O	1.94	0.68
1:A:256:GLY:C	1:A:261:GLN:HA	2.18	0.68
22:B:1019:CLA:C19	22:B:1021:CLA:C7	2.71	0.68
3:C:89:ILE:HG23	3:C:111:PHE:CE2	2.28	0.68
3:C:318:LEU:HD21	3:C:328:VAL:HG11	1.75	0.68
4:D:43:LEU:N	4:D:43:LEU:HD23	2.08	0.68
4:D:171:PRO:HA	4:D:181:PHE:CD2	2.28	0.68
12:M:34:LYS:HD2	12:m:5032:GLN:CD	2.19	0.68
13:O:82:PRO:CG	13:O:89:ALA:CB	2.71	0.68
18:Y:21:GLN:O	18:Y:25:ILE:HG23	1.94	0.68
1:a:5228:THR:HG22	1:a:5229:GLU:N	2.07	0.68
22:c:6030:CLA:CAD	22:c:6030:CLA:CED	2.71	0.68
29:c:6057:DGD:HAS2	28:d:6059:MGE:H232	1.74	0.68
4:d:5015:PHE:CE1	4:d:5032:TRP:HZ2	2.12	0.68
4:d:5101:PHE:O	4:d:5105:CYS:HB2	1.92	0.68
1:A:78:ILE:HD12	1:A:78:ILE:N	2.09	0.68
1:A:149:ALA:HB1	1:A:283:VAL:CG1	2.24	0.68
2:B:12:LEU:O	2:B:13:ILE:HG23	1.94	0.68
3:C:56:HIS:HA	3:C:59:LEU:CD1	2.23	0.68
3:C:451:ALA:HA	3:C:456:GLU:HG2	1.75	0.68
22:C:1030:CLA:HMB2	22:C:1031:CLA:C4B	2.07	0.68
25:C:1052:BCR:H312	20:Z:9:LEU:HD11	1.75	0.68
4:D:218:VAL:HG12	4:D:219:GLU:N	2.08	0.68
7:H:11:LEU:C	7:H:13:PRO:HD2	2.19	0.68
13:O:82:PRO:HG2	13:O:89:ALA:CB	2.24	0.68
16:V:101:TYR:HE1	16:V:118:HIS:HD1	1.42	0.68
16:V:103:LYS:HD2	16:V:121:LEU:HD13	1.75	0.68
1:a:5224:ILE:HD13	1:a:5225:ARG:H	1.59	0.68
2:b:5032:GLY:HA3	25:b:6047:BCR:C36	2.24	0.68
3:c:5266:TRP:HB3	3:c:5271:TYR:OH	1.94	0.68
4:d:5059:TYR:O	5:e:5066:VAL:HG23	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5095:PRO:CG	17:x:5015:SER:HB2	2.23	0.68
4:d:5207:GLY:CA	4:d:5274:VAL:HG11	2.23	0.68
4:d:5218:VAL:HG12	4:d:5219:GLU:N	2.09	0.68
13:o:5242:GLU:CD	13:o:5260:LYS:HD3	2.19	0.68
25:z:6053:BCR:C38	25:z:6053:BCR:C23	2.59	0.68
1:A:337:HIS:O	4:D:351:ALA:CB	2.36	0.67
3:C:278:ALA:O	3:C:282:MET:HE2	1.94	0.67
3:C:343:ARG:HG2	3:C:348:GLU:O	1.94	0.67
3:C:417:VAL:HG12	16:V:68:VAL:CB	2.21	0.67
4:D:61:HIS:CE1	4:D:80:THR:HG23	2.30	0.67
25:H:1049:BCR:HC8	25:H:1049:BCR:H321	1.76	0.67
12:M:35:SER:O	12:M:36:SER:HB2	1.94	0.67
15:U:29:ASN:O	15:U:97:ARG:NE	2.24	0.67
1:a:5094:TYR:CE1	1:a:5105:TRP:HA	2.29	0.67
2:b:5451:PHE:CZ	22:b:6012:CLA:O1D	2.47	0.67
3:c:5046:SER:CB	3:c:5141:GLU:CB	2.59	0.67
5:e:5020:TRP:O	5:e:5024:SER:HB3	1.94	0.67
12:m:5035:SER:O	12:m:5036:SER:HB2	1.94	0.67
13:o:5190:LEU:C	13:o:5190:LEU:CD2	2.67	0.67
15:u:5025:ILE:HG21	15:u:5035:PHE:HE2	1.59	0.67
16:v:5101:TYR:HE1	16:v:5118:HIS:HD1	1.43	0.67
1:A:174:LEU:HD22	23:A:1038:PHO:H152	1.76	0.67
22:A:1007:CLA:CHA	22:A:1007:CLA:CBA	2.72	0.67
22:B:1012:CLA:CAB	22:B:1015:CLA:HBB2	2.24	0.67
22:K:1034:CLA:O2A	22:K:1034:CLA:CHA	2.41	0.67
16:V:54:GLU:O	16:V:58:LEU:HD23	1.94	0.67
22:a:6003:CLA:H203	22:d:6005:CLA:H92	1.75	0.67
22:b:6023:CLA:O1D	22:b:6023:CLA:H2A	1.95	0.67
29:b:6058:DGD:O2D	29:b:6058:DGD:HG31	1.95	0.67
3:c:5117:VAL:HG12	3:c:5118:HIS:H	1.56	0.67
4:d:5021:TRP:O	4:d:5026:ARG:NH2	2.28	0.67
4:d:5274:VAL:HG22	24:d:6042:PQ9:H293	1.76	0.67
8:i:5024:LEU:C	8:i:5026:GLY:H	2.01	0.67
15:u:5059:GLU:O	15:u:5061:VAL:N	2.27	0.67
1:A:212:CYS:SG	4:D:210:LEU:HB3	2.34	0.67
1:A:224:ILE:HG23	1:A:225:ARG:N	2.08	0.67
2:B:221:PRO:O	7:H:21:VAL:HG23	1.94	0.67
2:B:271:THR:HG22	2:B:274:GLN:NE2	2.10	0.67
2:B:429:ILE:HD12	2:B:429:ILE:N	2.10	0.67
22:B:1023:CLA:O1D	22:B:1023:CLA:H2A	1.95	0.67
22:C:1029:CLA:HMC1	22:C:1029:CLA:CBC	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:D:1050:BCR:C21	28:D:1059:MGE:C3A	2.72	0.67
1:a:5078:ILE:N	1:a:5078:ILE:HD12	2.09	0.67
1:a:5244:GLU:HG3	4:d:5242:GLU:HA	1.75	0.67
1:a:5247:ASN:HD21	2:b:5486:LEU:HB3	1.59	0.67
2:b:5221:PRO:O	7:h:5021:VAL:HG23	1.94	0.67
3:c:5457:LYS:NZ	4:d:5228:GLY:HA2	2.07	0.67
22:c:6029:CLA:HMC1	22:c:6029:CLA:CBC	2.25	0.67
4:d:5126:MET:HE2	4:d:5143:ALA:O	1.94	0.67
4:d:5221:THR:O	4:d:5244:TYR:HA	1.93	0.67
4:d:5352:LEU:H	4:d:5352:LEU:HD23	1.59	0.67
8:i:5012:VAL:O	8:i:5016:VAL:HG23	1.95	0.67
8:i:5014:PHE:C	8:i:5014:PHE:CD1	2.67	0.67
14:t:5018:PHE:HD1	25:t:1046:BCR:C33	2.08	0.67
2:B:433:ASP:C	2:B:433:ASP:OD1	2.37	0.67
3:C:199:ILE:HG12	3:C:234:VAL:HG11	1.76	0.67
4:D:45:LEU:HG	4:D:49:LEU:HD12	1.75	0.67
4:D:95:PRO:CG	17:X:15:SER:HB2	2.23	0.67
24:D:1042:PQ9:H301	24:D:1042:PQ9:C34	2.06	0.67
5:E:8:ARG:HE	6:F:13:TYR:CB	2.02	0.67
25:T:6046:BCR:H323	25:T:6046:BCR:HC41	1.77	0.67
15:U:59:GLU:O	15:U:61:VAL:N	2.27	0.67
7:h:5013:PRO:HG2	7:h:5014:LEU:H	1.59	0.67
16:v:5066:CYS:O	16:v:5073:LYS:HG3	1.93	0.67
2:B:31:ALA:HB2	22:B:1013:CLA:HAC1	1.74	0.67
22:B:1019:CLA:HBA2	22:B:1019:CLA:HBD	1.76	0.67
3:C:42:LEU:CD1	3:C:48:LYS:HG2	2.24	0.67
4:D:110:LEU:O	4:D:114:ILE:HG13	1.95	0.67
4:D:250:ASN:HB2	4:D:260:ALA:CB	2.20	0.67
23:D:1039:PHO:H42	23:D:1039:PHO:O2A	1.95	0.67
13:O:141:ARG:HH11	13:O:141:ARG:CG	2.07	0.67
13:O:242:GLU:CD	13:O:260:LYS:HD3	2.19	0.67
25:T:6046:BCR:C39	25:b:6047:BCR:H14C	2.24	0.67
16:V:35:THR:HA	16:V:46:THR:HA	1.77	0.67
1:a:5330:VAL:CG1	4:d:5348:ARG:HA	2.24	0.67
2:b:5220:ARG:CD	2:b:5221:PRO:HD2	2.20	0.67
2:b:5394:GLN:HB3	15:u:5017:LEU:CD2	2.23	0.67
2:b:5429:ILE:HD12	2:b:5429:ILE:N	2.10	0.67
4:d:5026:ARG:O	4:d:5026:ARG:HG2	1.92	0.67
4:d:5198:MET:SD	22:d:6005:CLA:CED	2.83	0.67
5:e:5079:PHE:O	5:e:5083:LEU:HB2	1.95	0.67
11:l:5030:LEU:HD23	11:l:5030:LEU:C	2.19	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:224:ILE:HD13	1:A:225:ARG:H	1.59	0.67
2:B:25:MET:HG3	25:B:1045:BCR:C40	2.25	0.67
3:C:49:LEU:CD1	3:C:49:LEU:N	2.51	0.67
3:C:348:GLU:CD	3:C:373:ASN:HB3	2.19	0.67
22:C:1025:CLA:H2A	22:C:1025:CLA:O1D	1.94	0.67
4:D:21:TRP:O	4:D:26:ARG:NH2	2.27	0.67
4:D:45:LEU:HG	4:D:49:LEU:CD1	2.24	0.67
4:D:188:PHE:CD2	4:D:326:ARG:HG2	2.29	0.67
22:D:1004:CLA:HBB1	22:D:1004:CLA:CHC	2.15	0.67
11:L:21:LEU:CB	14:T:16:LEU:HD21	2.24	0.67
20:Z:43:GLY:O	20:Z:47:TRP:N	2.27	0.67
2:b:5013:ILE:HD12	2:b:5234:ILE:CG2	2.23	0.67
22:b:6019:CLA:HBD	22:b:6019:CLA:HBA2	1.76	0.67
22:c:6025:CLA:O1D	22:c:6025:CLA:H2A	1.94	0.67
4:d:5061:HIS:CE1	4:d:5080:THR:HG23	2.30	0.67
13:o:5172:PHE:HB2	13:o:5221:GLY:N	2.08	0.67
13:o:5202:GLN:OE1	13:o:5202:GLN:HA	1.93	0.67
15:u:5046:ALA:HA	15:u:5049:ILE:HD12	1.77	0.67
3:C:59:LEU:HD22	22:K:1034:CLA:HBD	1.77	0.67
3:C:261:ARG:HA	3:C:266:TRP:CZ2	2.30	0.67
3:C:334:PRO:HA	13:O:179:THR:CB	2.23	0.67
4:D:221:THR:HG23	4:D:248:THR:HB	1.75	0.67
5:E:79:PHE:O	5:E:83:LEU:HD13	1.94	0.67
1:a:5109:GLY:C	1:a:5111:PRO:HD2	2.20	0.67
1:a:5174:LEU:HD22	23:a:6038:PHO:H152	1.77	0.67
22:b:6022:CLA:H11	22:b:6022:CLA:CHA	2.25	0.67
3:c:5187:ASP:HB2	3:c:5230:LEU:CD1	2.25	0.67
4:d:5254:SER:OG	4:d:5260:ALA:HB2	1.93	0.67
1:A:94:TYR:CE1	1:A:105:TRP:HA	2.29	0.67
1:A:109:GLY:C	1:A:111:PRO:HD2	2.20	0.67
22:B:1019:CLA:H2A	22:B:1019:CLA:O1D	1.95	0.67
4:D:50:THR:CG2	25:D:1050:BCR:H333	2.24	0.67
23:D:1039:PHO:HHD	23:D:1039:PHO:CBC	2.23	0.67
24:D:1042:PQ9:C30	24:D:1042:PQ9:C34	2.67	0.67
25:K:1051:BCR:C23	25:K:1051:BCR:C40	2.64	0.67
11:L:30:LEU:HD23	11:L:30:LEU:C	2.19	0.67
1:a:5060:ILE:HG22	1:a:5061:ASP:N	2.10	0.67
1:a:5279:ARG:HD2	4:d:5208:ALA:HB1	1.75	0.67
3:c:5049:LEU:HD23	3:c:5052:ALA:N	2.08	0.67
4:d:5171:PRO:HA	4:d:5181:PHE:CD2	2.29	0.67
10:k:5035:LEU:O	10:k:5038:VAL:HG23	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l:5004:ASN:OD1	11:l:5005:PRO:HD2	1.93	0.67
13:o:5141:ARG:HH11	13:o:5141:ARG:CG	2.07	0.67
16:v:5054:GLU:O	16:v:5058:LEU:HD23	1.94	0.67
1:A:160:ILE:HG21	3:C:431:PHE:CE1	2.30	0.67
2:B:468:TRP:NE1	22:B:1019:CLA:HED2	2.09	0.67
22:B:1009:CLA:O1A	22:B:1009:CLA:CHA	2.43	0.67
3:C:166:ILE:HD12	3:C:249:ILE:CD1	2.22	0.67
4:D:126:MET:HE2	4:D:143:ALA:O	1.94	0.67
4:D:274:VAL:HG22	24:D:1042:PQ9:H293	1.76	0.67
12:M:9:ILE:HD12	12:M:9:ILE:H	1.58	0.67
13:O:188:ARG:HB2	13:O:188:ARG:NH1	2.09	0.67
13:O:202:GLN:OE1	13:O:202:GLN:HA	1.93	0.67
1:a:5089:ILE:HG21	1:a:5094:TYR:HB2	1.77	0.67
1:a:5196:PRO:HG3	3:c:5404:LEU:CD1	2.23	0.67
2:b:5235:GLU:HG2	2:b:5473:THR:HA	1.77	0.67
2:b:5433:ASP:C	2:b:5433:ASP:OD1	2.37	0.67
22:b:6009:CLA:O1A	22:b:6009:CLA:CHA	2.43	0.67
3:c:5418:ASN:C	3:c:5418:ASN:OD1	2.38	0.67
4:d:5043:LEU:HD23	4:d:5043:LEU:H	1.60	0.67
10:k:5032:PHE:HE1	25:k:6052:BCR:C37	2.08	0.67
22:k:6034:CLA:H43	22:k:6034:CLA:O1A	1.95	0.67
18:y:5042:ARG:HB3	18:y:5043:ARG:NH1	2.10	0.67
1:A:218:LEU:HA	1:A:221:SER:OG	1.95	0.67
2:B:75:TRP:CD1	2:B:94:GLU:HB2	2.30	0.67
22:B:1013:CLA:CAB	22:B:1014:CLA:C5	2.73	0.67
3:C:453:ALA:HB2	8:I:31:ASN:ND2	2.10	0.67
7:H:44:ILE:HD11	17:X:19:PHE:CD2	2.30	0.67
8:I:12:VAL:O	8:I:16:VAL:HG23	1.95	0.67
11:L:29:LEU:C	11:L:29:LEU:HD13	2.20	0.67
15:U:83:THR:HG22	15:U:84:VAL:N	2.10	0.67
1:a:5224:ILE:HG23	1:a:5225:ARG:N	2.08	0.67
22:a:6007:CLA:CHA	22:a:6007:CLA:CBA	2.72	0.67
13:o:5075:THR:HB	13:o:5262:GLN:HB2	1.77	0.67
16:v:5105:PRO:HB2	16:v:5114:ILE:HG23	1.77	0.67
1:A:64:ARG:HE	13:O:98:THR:HG21	1.59	0.66
3:C:49:LEU:HD23	3:C:52:ALA:N	2.08	0.66
3:C:187:ASP:HB2	3:C:230:LEU:CD1	2.25	0.66
5:E:38:VAL:HG21	6:F:36:ALA:O	1.95	0.66
1:a:5064:ARG:HE	13:o:5098:THR:HG21	1.59	0.66
1:a:5150:PRO:CA	22:a:6003:CLA:H52	2.25	0.66
2:b:5419:SER:HA	2:b:5422:ARG:NH1	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:b:6012:CLA:CAB	22:b:6015:CLA:HBB2	2.24	0.66
4:d:5068:LEU:HA	6:f:5040:MET:SD	2.35	0.66
4:d:5110:LEU:O	4:d:5114:ILE:HG13	1.95	0.66
24:d:6042:PQ9:H242	28:l:6061:MGE:CBB	2.25	0.66
13:o:5082:PRO:HG2	13:o:5089:ALA:CB	2.24	0.66
2:B:24:LEU:CD2	2:B:111:ALA:HA	2.25	0.66
3:C:266:TRP:HB3	3:C:271:TYR:OH	1.94	0.66
22:C:1029:CLA:O1A	22:C:1029:CLA:HBD	1.96	0.66
22:D:1005:CLA:H122	28:D:1062:MGE:H263	1.78	0.66
8:I:18:LEU:O	8:I:18:LEU:HD23	1.95	0.66
22:K:1034:CLA:H43	22:K:1034:CLA:O1A	1.95	0.66
1:a:5149:ALA:HB1	1:a:5283:VAL:CG1	2.24	0.66
22:a:6003:CLA:H142	23:a:6038:PHO:C8	2.11	0.66
2:b:5024:LEU:CD2	2:b:5111:ALA:HA	2.25	0.66
3:c:5343:ARG:HG2	3:c:5348:GLU:O	1.94	0.66
4:d:5100:ASP:O	4:d:5102:THR:N	2.28	0.66
22:A:1003:CLA:H142	23:A:1038:PHO:C8	2.11	0.66
2:B:451:PHE:CZ	22:B:1012:CLA:O1D	2.47	0.66
4:D:44:ALA:HB1	23:D:1039:PHO:H102	1.77	0.66
4:D:198:MET:SD	22:D:1005:CLA:CED	2.83	0.66
4:D:350:ASN:O	4:D:351:ALA:HB2	1.95	0.66
11:L:8:GLN:H	11:L:8:GLN:HE21	1.41	0.66
13:O:172:PHE:HB2	13:O:221:GLY:N	2.08	0.66
16:V:105:PRO:HB2	16:V:114:ILE:HG23	1.77	0.66
1:a:5192:ILE:HD11	1:a:5293:MET:HE1	1.78	0.66
1:a:5207:GLY:O	1:a:5210:LEU:N	2.27	0.66
1:a:5310:LYS:HG2	16:v:5151:ILE:HG22	1.77	0.66
2:b:5119:ASP:C	2:b:5120:LEU:HD23	2.20	0.66
2:b:5226:TYR:HD2	2:b:5226:TYR:O	1.79	0.66
22:b:6020:CLA:O2D	22:b:6020:CLA:H2A	1.95	0.66
3:c:5405:ASN:O	3:c:5406:SER:HB2	1.94	0.66
11:l:5021:LEU:CB	14:t:5016:LEU:HD21	2.24	0.66
1:A:156:ALA:HB1	1:A:290:ILE:CG2	2.25	0.66
1:A:210:LEU:HA	23:D:1039:PHO:HAC2	1.75	0.66
23:A:1038:PHO:H201	22:D:1005:CLA:C3B	2.26	0.66
22:B:1020:CLA:O2D	22:B:1020:CLA:H2A	1.95	0.66
4:D:68:LEU:HA	6:F:40:MET:SD	2.35	0.66
4:D:100:ASP:O	4:D:102:THR:N	2.28	0.66
5:E:75:GLN:O	5:E:76:VAL:C	2.36	0.66
7:H:53:LEU:HD12	7:H:55:LEU:CD2	2.25	0.66
15:U:25:ILE:HG21	15:U:35:PHE:HE2	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:X:11:THR:HG23	17:X:11:THR:O	1.96	0.66
1:a:5126:TYR:HD2	1:a:5126:TYR:C	2.03	0.66
1:a:5156:ALA:HB1	1:a:5290:ILE:CG2	2.26	0.66
1:a:5212:CYS:SG	4:d:5210:LEU:HB3	2.34	0.66
2:b:5168:VAL:HG12	2:b:5169:SER:N	2.10	0.66
2:b:5271:THR:HG22	2:b:5274:GLN:NE2	2.10	0.66
2:b:5475:PHE:N	2:b:5475:PHE:CD2	2.62	0.66
22:b:6022:CLA:H93	22:b:6022:CLA:H122	1.63	0.66
3:c:5459:ILE:H	4:d:5224:GLN:H	1.44	0.66
4:d:5045:LEU:HG	4:d:5049:LEU:HD12	1.76	0.66
23:d:6039:PHO:HMA3	22:d:6004:CLA:H142	1.76	0.66
22:d:6004:CLA:C20	28:d:6059:MGE:H8A1	2.26	0.66
22:k:6034:CLA:CGD	22:k:6034:CLA:CAA	2.65	0.66
11:l:5030:LEU:HD22	11:l:5031:PHE:CD1	2.30	0.66
13:o:5188:ARG:NH1	13:o:5188:ARG:HB2	2.09	0.66
16:v:5035:THR:HA	16:v:5046:THR:HA	1.77	0.66
1:A:258:LEU:C	1:A:259:ILE:HG13	2.21	0.66
2:B:119:ASP:C	2:B:120:LEU:HD23	2.20	0.66
3:C:224:ILE:CD1	25:C:1054:BCR:H383	2.25	0.66
3:C:298:PRO:O	3:C:299:SER:HB2	1.95	0.66
18:Y:42:ARG:HB3	18:Y:43:ARG:NH1	2.10	0.66
1:a:5214:MET:HE1	23:d:6039:PHO:O1D	1.95	0.66
22:a:6006:CLA:C16	24:a:6043:PQ9:H443	2.22	0.66
3:c:5295:THR:HG22	3:c:5296:VAL:N	2.11	0.66
3:c:5318:LEU:HD21	3:c:5328:VAL:HG11	1.75	0.66
4:d:5281:MET:HE2	4:d:5281:MET:CA	2.25	0.66
23:d:6039:PHO:CHD	23:d:6039:PHO:CBC	2.74	0.66
10:k:5032:PHE:CE1	25:k:6052:BCR:C37	2.78	0.66
13:o:5086:ARG:HH11	13:o:5086:ARG:HG3	1.61	0.66
23:A:1038:PHO:C20	22:D:1005:CLA:C3B	2.74	0.66
2:B:475:PHE:CZ	4:D:134:ARG:HB2	2.31	0.66
22:B:1022:CLA:H11	22:B:1022:CLA:CHA	2.25	0.66
22:C:1030:CLA:HHC	22:C:1030:CLA:CBB	2.20	0.66
11:L:30:LEU:HD22	11:L:31:PHE:CD1	2.30	0.66
13:O:266:TYR:OH	13:O:268:SER:HB3	1.96	0.66
15:U:46:ALA:HA	15:U:49:ILE:HD12	1.77	0.66
18:Y:43:ARG:HD2	18:Y:44:GLY:H	1.60	0.66
1:a:5267:ASN:HB3	1:a:5270:SER:OG	1.96	0.66
22:a:6006:CLA:CBB	22:d:6004:CLA:C5	2.72	0.66
2:b:5317:ASN:HA	2:b:5330:MET:HE1	1.77	0.66
22:c:6025:CLA:O2A	22:c:6025:CLA:C3A	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6029:CLA:O1A	22:c:6029:CLA:HBD	1.96	0.66
4:d:5267:LEU:HD23	4:d:5267:LEU:C	2.21	0.66
7:h:5053:LEU:HD12	7:h:5055:LEU:CD2	2.25	0.66
11:l:5029:LEU:HD13	11:l:5029:LEU:C	2.20	0.66
17:x:5011:THR:O	17:x:5011:THR:HG23	1.95	0.66
20:z:5043:GLY:O	20:z:5047:TRP:N	2.27	0.66
1:A:90:GLY:HA2	1:A:167:SER:OG	1.95	0.66
22:A:1003:CLA:HBC2	22:A:1003:CLA:CHD	2.25	0.66
22:A:1006:CLA:CBB	22:D:1004:CLA:C5	2.72	0.66
2:B:174:LEU:HD22	2:B:312:TYR:CZ	2.31	0.66
3:C:63:TRP:NE1	22:C:1028:CLA:C2C	2.59	0.66
22:D:1005:CLA:HAA2	24:D:1042:PQ9:H412	0.75	0.66
24:D:1042:PQ9:H242	28:L:1061:MGE:CBB	2.25	0.66
13:O:86:ARG:HG3	13:O:86:ARG:HH11	1.60	0.66
2:b:5174:LEU:HD21	2:b:5312:TYR:CE1	2.31	0.66
22:b:6019:CLA:H2A	22:b:6019:CLA:O1D	1.95	0.66
3:c:5063:TRP:NE1	22:c:6028:CLA:C2C	2.59	0.66
3:c:5166:ILE:HD13	3:c:5248:GLY:HA3	1.77	0.66
1:A:62:GLY:HA2	1:A:87:ASN:HB2	1.76	0.66
1:A:126:TYR:HD2	1:A:126:TYR:C	2.03	0.66
3:C:151:TRP:HE3	3:C:157:MET:HE1	1.61	0.66
3:C:405:ASN:O	3:C:406:SER:HB2	1.94	0.66
3:C:418:ASN:C	3:C:418:ASN:OD1	2.38	0.66
4:D:45:LEU:O	4:D:49:LEU:HD12	1.95	0.66
13:O:196:SER:OG	13:O:197:ALA:N	2.26	0.66
2:b:5012:LEU:O	2:b:5013:ILE:HG23	1.95	0.66
2:b:5414:PRO:O	2:b:5418:LYS:HG3	1.96	0.66
2:b:5468:TRP:NE1	22:b:6019:CLA:HED2	2.09	0.66
22:b:6009:CLA:CGD	22:b:6009:CLA:CAA	2.74	0.66
3:c:5151:TRP:HE3	3:c:5157:MET:HE1	1.61	0.66
4:d:5045:LEU:O	4:d:5049:LEU:HD12	1.95	0.66
4:d:5158:LEU:O	4:d:5162:LEU:HG	1.96	0.66
4:d:5182:LEU:O	4:d:5183:LEU:C	2.37	0.66
23:d:6039:PHO:O2A	23:d:6039:PHO:H42	1.95	0.66
22:d:6004:CLA:H2A	22:d:6004:CLA:O1D	1.96	0.66
1:A:104:GLU:OE2	13:O:99:ARG:HB3	1.96	0.66
22:B:1009:CLA:HHC	22:B:1009:CLA:CBB	2.19	0.66
29:B:1058:DGD:O2D	29:B:1058:DGD:HG31	1.94	0.66
3:C:420:VAL:HB	3:C:425:TRP:NE1	2.09	0.66
4:D:267:LEU:HD23	4:D:267:LEU:C	2.21	0.66
4:D:281:MET:HE2	4:D:281:MET:CA	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:20:TRP:O	5:E:24:SER:HB3	1.95	0.66
5:E:26:THR:O	5:E:29:ALA:HB3	1.96	0.66
1:a:5064:ARG:NE	13:o:5098:THR:HG21	2.10	0.66
1:a:5279:ARG:HG2	4:d:5212:ALA:HB2	1.75	0.66
2:b:5334:ASP:HB3	13:o:5202:GLN:HG3	1.78	0.66
2:b:5464:PHE:CE1	28:b:6060:MGE:H4B1	2.30	0.66
3:c:5089:ILE:N	3:c:5090:PRO:HD2	2.11	0.66
3:c:5224:ILE:CD1	25:c:6054:BCR:H383	2.25	0.66
3:c:5240:ILE:HG13	22:c:6025:CLA:HAB	1.78	0.66
3:c:5261:ARG:HA	3:c:5266:TRP:CZ2	2.30	0.66
22:c:6028:CLA:H2A	22:c:6028:CLA:O1D	1.96	0.66
7:h:5041:PHE:HD1	25:h:6049:BCR:H362	1.61	0.66
1:A:37:MET:SD	1:A:126:TYR:HB2	2.36	0.66
1:A:214:MET:HE1	23:D:1039:PHO:O1D	1.95	0.66
2:B:414:PRO:O	2:B:418:LYS:HG3	1.96	0.66
3:C:56:HIS:CD2	3:C:57:ALA:N	2.64	0.66
3:C:295:THR:HG22	3:C:296:VAL:N	2.11	0.66
22:C:1030:CLA:H121	22:C:1030:CLA:H171	1.72	0.66
4:D:276:VAL:O	4:D:280:TRP:HD1	1.79	0.66
14:T:11:ALA:CB	25:T:6046:BCR:H362	2.25	0.66
1:a:5036:ILE:HD13	22:c:6029:CLA:H142	1.78	0.66
1:a:5210:LEU:HD23	1:a:5210:LEU:O	1.96	0.66
2:b:5055:MET:HE3	2:b:5080:ILE:HG21	1.78	0.66
2:b:5075:TRP:CD1	2:b:5094:GLU:HB2	2.30	0.66
3:c:5265:ILE:CD1	3:c:5452:ALA:CB	2.61	0.66
3:c:5418:ASN:ND2	29:c:6057:DGD:HE61	2.11	0.66
4:d:5029:PHE:CE2	4:d:5031:GLY:HA3	2.31	0.66
4:d:5132:ILE:O	4:d:5136:VAL:HG23	1.96	0.66
1:A:60:ILE:HG22	1:A:61:ASP:N	2.10	0.65
1:A:93:PHE:HB2	3:C:218:PHE:HD2	1.62	0.65
1:A:195:HIS:O	1:A:199:GLN:HG2	1.96	0.65
22:B:1009:CLA:CGD	22:B:1009:CLA:CAA	2.74	0.65
3:C:84:GLN:O	3:C:86:LEU:HG	1.95	0.65
3:C:276:LEU:HD23	3:C:276:LEU:C	2.22	0.65
22:C:1029:CLA:H52	22:C:1029:CLA:C1C	2.27	0.65
4:D:43:LEU:HD23	4:D:43:LEU:H	1.59	0.65
4:D:182:LEU:O	4:D:183:LEU:C	2.37	0.65
15:U:42:TYR:HB3	15:U:43:PRO:CD	2.26	0.65
1:a:5222:SER:C	2:b:5482:ILE:HG21	2.21	0.65
1:a:5223:LEU:HD11	4:d:5265:ARG:HG2	1.78	0.65
1:a:5258:LEU:C	1:a:5259:ILE:HG13	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5025:MET:HG3	25:b:6045:BCR:C40	2.25	0.65
3:c:5056:HIS:CD2	3:c:5057:ALA:N	2.64	0.65
3:c:5070:PHE:O	3:c:5073:ALA:HB3	1.96	0.65
3:c:5257:PHE:H	3:c:5257:PHE:HD1	1.44	0.65
4:d:5155:SER:HA	4:d:5159:ILE:HB	1.78	0.65
5:e:5038:VAL:HG21	6:f:5036:ALA:O	1.95	0.65
7:h:5044:ILE:HD11	17:x:5019:PHE:CD2	2.30	0.65
2:B:168:VAL:HG12	2:B:169:SER:N	2.10	0.65
2:B:475:PHE:N	2:B:475:PHE:CD2	2.62	0.65
3:C:89:ILE:N	3:C:90:PRO:HD2	2.11	0.65
22:C:1028:CLA:H2A	22:C:1028:CLA:O1D	1.96	0.65
15:U:73:GLN:OE1	15:U:77:GLU:HG3	1.97	0.65
16:V:61:TYR:O	16:V:129:LYS:HD3	1.96	0.65
1:a:5214:MET:HE1	23:d:6039:PHO:CGD	2.26	0.65
1:a:5218:LEU:HA	1:a:5221:SER:OG	1.95	0.65
22:b:6021:CLA:HMA3	22:b:6021:CLA:C2	2.23	0.65
3:c:5059:LEU:HD22	22:k:6034:CLA:HBD	1.77	0.65
3:c:5084:GLN:O	3:c:5086:LEU:HG	1.95	0.65
3:c:5298:PRO:O	3:c:5299:SER:HB2	1.95	0.65
4:d:5044:ALA:HB1	23:d:6039:PHO:H102	1.77	0.65
4:d:5312:GLU:OE1	13:o:5185:PRO:HB3	1.96	0.65
4:d:5350:ASN:O	4:d:5351:ALA:HB2	1.95	0.65
1:A:141:PRO:C	1:A:143:ILE:H	2.05	0.65
1:A:205:VAL:HB	1:A:279:ARG:HH22	1.60	0.65
2:B:317:ASN:HA	2:B:330:MET:HE1	1.77	0.65
2:B:419:SER:HA	2:B:422:ARG:NH1	2.10	0.65
3:C:63:TRP:NE1	22:C:1028:CLA:CMC	2.59	0.65
3:C:257:PHE:HD1	3:C:257:PHE:H	1.44	0.65
3:C:418:ASN:ND2	29:C:1057:DGD:HE61	2.11	0.65
3:C:459:ILE:H	4:D:224:GLN:H	1.44	0.65
15:U:43:PRO:HD3	16:V:108:TYR:HB3	1.78	0.65
1:a:5090:GLY:HA2	1:a:5167:SER:OG	1.95	0.65
22:b:6023:CLA:C13	22:b:6024:CLA:HMA1	2.23	0.65
3:c:5453:ALA:HB2	8:i:5031:ASN:ND2	2.10	0.65
22:c:6037:CLA:HBB1	22:c:6037:CLA:CHC	2.14	0.65
4:d:5182:LEU:O	4:d:5185:PHE:N	2.29	0.65
14:t:5017:PHE:O	14:t:5021:ILE:HG13	1.96	0.65
15:u:5083:THR:HG22	15:u:5084:VAL:N	2.10	0.65
1:A:64:ARG:NE	13:O:98:THR:HG21	2.10	0.65
1:A:207:GLY:O	1:A:210:LEU:N	2.27	0.65
1:A:247:ASN:HD21	2:B:486:LEU:HB3	1.59	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:166:ILE:HD13	3:C:248:GLY:HA3	1.77	0.65
22:C:1029:CLA:HBA1	8:I:23:PHE:CE1	2.32	0.65
29:C:1055:DGD:CEB	29:C:1055:DGD:HBG3	2.25	0.65
5:E:79:PHE:O	5:E:83:LEU:HB2	1.95	0.65
12:M:8:PHE:HB3	12:m:5009:ILE:CG1	2.27	0.65
13:O:59:ASP:OD1	13:O:61:SER:HB2	1.96	0.65
15:U:28:ASN:HD21	15:U:55:TYR:N	1.95	0.65
1:a:5039:PRO:HB2	22:a:6007:CLA:CBB	2.27	0.65
1:a:5160:ILE:HG21	3:c:5431:PHE:CE1	2.30	0.65
2:b:5165:GLY:HA3	2:b:5179:GLN:O	1.96	0.65
22:b:6021:CLA:CED	22:b:6021:CLA:CHA	2.61	0.65
3:c:5063:TRP:NE1	22:c:6028:CLA:CMC	2.59	0.65
7:h:5013:PRO:HG2	7:h:5014:LEU:CD1	2.22	0.65
25:t:1046:BCR:H323	25:t:1046:BCR:HC41	1.77	0.65
16:v:5081:ARG:HG3	16:v:5157:GLY:HA3	1.78	0.65
1:A:252:HIS:NE2	1:A:264:SER:HB3	2.12	0.65
3:C:348:GLU:HB3	13:O:42:ALA:HB3	1.79	0.65
22:C:1033:CLA:H2	22:C:1033:CLA:C7	2.27	0.65
4:D:350:ASN:O	4:D:351:ALA:CB	2.44	0.65
13:O:107:ILE:CG2	13:O:123:GLU:HG3	2.26	0.65
13:O:250:ASP:HB3	13:O:253:ALA:HB3	1.78	0.65
14:T:17:PHE:O	14:T:21:ILE:HG13	1.96	0.65
1:a:5013:LEU:HD12	1:a:5013:LEU:N	2.12	0.65
2:b:5475:PHE:CZ	4:d:5134:ARG:HB2	2.31	0.65
22:b:6023:CLA:C4C	22:b:6024:CLA:HBC2	2.26	0.65
3:c:5050:LEU:CD2	3:c:5054:VAL:HG23	2.25	0.65
4:d:5090:LEU:HD12	4:d:5096:GLU:HG3	1.79	0.65
4:d:5276:VAL:O	4:d:5280:TRP:HD1	1.79	0.65
5:e:5026:THR:O	5:e:5029:ALA:HB3	1.96	0.65
13:o:5250:ASP:HB3	13:o:5253:ALA:HB3	1.78	0.65
15:u:5042:TYR:HB3	15:u:5043:PRO:HD2	1.78	0.65
1:A:36:ILE:HD13	22:C:1029:CLA:C14	2.27	0.65
2:B:334:ASP:HB3	13:O:202:GLN:HG3	1.78	0.65
2:B:464:PHE:CE1	28:B:1060:MGE:H4B1	2.30	0.65
22:B:1023:CLA:C4C	22:B:1024:CLA:HBC2	2.26	0.65
3:C:428:THR:CG2	3:C:429:SER:N	2.57	0.65
1:a:5036:ILE:HD13	22:c:6029:CLA:C14	2.27	0.65
1:a:5279:ARG:HD3	4:d:5208:ALA:CB	2.25	0.65
22:a:6006:CLA:HBB1	22:a:6006:CLA:CHC	2.19	0.65
22:b:6011:CLA:HMD1	22:b:6014:CLA:CAB	2.27	0.65
22:b:6012:CLA:H43	22:b:6013:CLA:H41	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5396:MET:CE	16:v:5074:THR:HA	2.26	0.65
22:c:6029:CLA:H52	22:c:6029:CLA:C1C	2.27	0.65
4:d:5350:ASN:O	4:d:5351:ALA:CB	2.44	0.65
8:i:5018:LEU:HD23	8:i:5018:LEU:O	1.95	0.65
15:u:5073:GLN:OE1	15:u:5077:GLU:HG3	1.97	0.65
1:A:186:PHE:O	1:A:187:GLN:C	2.40	0.65
1:A:187:GLN:HG3	1:A:325:ASN:ND2	2.10	0.65
1:A:222:SER:C	2:B:482:ILE:HG21	2.21	0.65
4:D:29:PHE:CE2	4:D:31:GLY:HA3	2.31	0.65
4:D:90:LEU:HD12	4:D:96:GLU:HG3	1.79	0.65
16:V:66:CYS:SG	31:V:1041:HEM:CAC	2.85	0.65
1:a:5212:CYS:CB	4:d:5211:CYS:HB2	2.24	0.65
23:a:6038:PHO:C20	22:d:6005:CLA:C3B	2.74	0.65
2:b:5357:ARG:HG2	2:b:5357:ARG:NH1	2.09	0.65
22:b:6009:CLA:O1A	22:b:6009:CLA:NA	2.30	0.65
22:b:6016:CLA:HBC3	22:b:6016:CLA:CHD	2.26	0.65
4:d:5207:GLY:HA2	4:d:5274:VAL:HG11	1.79	0.65
22:d:6005:CLA:C9	22:d:6005:CLA:H121	2.26	0.65
13:o:5107:ILE:CG2	13:o:5123:GLU:HG3	2.26	0.65
14:t:5020:ALA:O	14:t:5024:ARG:HB3	1.96	0.65
1:A:192:ILE:HD11	1:A:293:MET:HE1	1.78	0.65
1:A:214:MET:HE1	23:D:1039:PHO:CGD	2.27	0.65
1:A:279:ARG:HE	23:A:1038:PHO:C2C	2.10	0.65
2:B:165:GLY:HA3	2:B:179:GLN:O	1.96	0.65
2:B:226:TYR:O	2:B:226:TYR:HD2	1.79	0.65
3:C:263:ALA:CB	3:C:264:PHE:HD2	2.10	0.65
3:C:275:SER:CB	22:C:1033:CLA:HED1	2.20	0.65
25:C:1052:BCR:H361	10:K:32:PHE:CE2	2.31	0.65
22:D:1004:CLA:H2A	22:D:1004:CLA:O1D	1.96	0.65
15:U:68:THR:HG22	15:U:71:GLN:N	2.10	0.65
1:a:5141:PRO:C	1:a:5143:ILE:H	2.05	0.65
1:a:5259:ILE:H	4:d:5128:ARG:HH22	1.43	0.65
1:a:5272:HIS:HB3	4:d:5218:VAL:HG11	1.79	0.65
3:c:5100:GLY:HA2	3:c:5196:VAL:CG1	2.23	0.65
3:c:5334:PRO:HD3	3:c:5339:LYS:HE3	1.79	0.65
22:c:6031:CLA:H2	22:c:6031:CLA:HMA3	1.78	0.65
15:u:5042:TYR:HB3	15:u:5043:PRO:CD	2.26	0.65
16:v:5032:GLU:HA	16:v:5035:THR:OG1	1.97	0.65
16:v:5098:LEU:HD22	16:v:5098:LEU:N	2.03	0.65
1:A:13:LEU:HD12	1:A:13:LEU:N	2.12	0.65
1:A:210:LEU:HD23	1:A:210:LEU:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:267:ASN:HB3	1:A:270:SER:OG	1.96	0.65
2:B:90:PHE:C	2:B:90:PHE:CD2	2.75	0.65
22:B:1009:CLA:O1A	22:B:1009:CLA:NA	2.30	0.65
3:C:50:LEU:HD22	3:C:51:GLY:N	2.12	0.65
3:C:334:PRO:HD3	3:C:339:LYS:HE3	1.79	0.65
22:C:1030:CLA:HED3	22:C:1030:CLA:CHA	2.27	0.65
29:C:1056:DGD:HBF2	29:C:1056:DGD:HBG2	0.81	0.65
22:D:1004:CLA:C20	28:D:1059:MGE:H8A1	2.26	0.65
24:D:1042:PQ9:H241	28:L:1061:MGE:H263	1.79	0.65
10:K:28:ILE:O	10:K:29:PRO:C	2.36	0.65
22:K:1034:CLA:HHD	22:K:1034:CLA:CBC	2.17	0.65
14:T:24:ARG:HD2	14:T:24:ARG:O	1.97	0.65
1:a:5195:HIS:O	1:a:5199:GLN:HG2	1.96	0.65
1:a:5309:ALA:HB3	16:v:5028:GLU:HB2	1.79	0.65
26:a:6063:LHG:HC41	3:c:5036:TRP:CH2	2.31	0.65
2:b:5069:LEU:HD21	22:b:6013:CLA:O1A	1.97	0.65
22:b:6013:CLA:CAB	22:b:6014:CLA:C5	2.73	0.65
3:c:5172:ALA:O	3:c:5176:VAL:HG23	1.97	0.65
3:c:5450:ALA:HB3	3:c:5456:GLU:HB3	1.79	0.65
31:f:6040:HEM:CMA	31:f:6040:HEM:CBA	2.61	0.65
13:o:5059:ASP:OD1	13:o:5061:SER:HB2	1.96	0.65
26:A:1063:LHG:HC41	3:C:36:TRP:CH2	2.31	0.65
2:B:235:GLU:HG2	2:B:473:THR:HA	1.77	0.65
3:C:281:MET:O	3:C:285:ILE:HG13	1.97	0.65
3:C:282:MET:SD	22:C:1025:CLA:H71	2.37	0.65
3:C:333:GLY:H	3:C:338:GLY:CA	2.10	0.65
29:C:1056:DGD:HBF1	29:C:1056:DGD:HB92	1.77	0.65
4:D:184:PHE:CE2	4:D:188:PHE:HD1	2.11	0.65
7:H:41:PHE:HD1	25:H:1049:BCR:H362	1.61	0.65
16:V:94:ASN:C	16:V:96:GLU:N	2.52	0.65
1:a:5116:ILE:CD1	1:a:5158:PHE:HB3	2.27	0.65
1:a:5119:PHE:C	1:a:5119:PHE:CD2	2.75	0.65
2:b:5103:LEU:HD12	2:b:5107:LEU:HG	1.79	0.65
2:b:5174:LEU:HD22	2:b:5312:TYR:CZ	2.31	0.65
3:c:5276:LEU:HD23	3:c:5276:LEU:C	2.22	0.65
22:c:6033:CLA:HBB1	22:c:6033:CLA:CHC	2.26	0.65
4:d:5194:ASN:O	4:d:5198:MET:HG3	1.97	0.65
4:d:5217:THR:HG21	24:d:6042:PQ9:O4	1.96	0.65
22:k:6034:CLA:H91	22:k:6034:CLA:H121	1.79	0.65
25:t:1046:BCR:C23	25:t:1046:BCR:H403	2.27	0.65
16:v:5061:TYR:O	16:v:5129:LYS:HD3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:ILE:HG21	1:A:94:TYR:HB2	1.77	0.64
1:A:259:ILE:H	4:D:128:ARG:HH22	1.43	0.64
1:A:310:LYS:HG2	16:V:151:ILE:HG22	1.77	0.64
2:B:454:ALA:C	2:B:456:ALA:H	2.05	0.64
3:C:171:GLY:CA	22:C:1025:CLA:HBC1	2.27	0.64
22:C:1025:CLA:O2A	22:C:1025:CLA:C3A	2.44	0.64
4:D:132:ILE:O	4:D:136:VAL:HG23	1.96	0.64
4:D:222:LEU:HD23	4:D:243:THR:O	1.98	0.64
13:O:83:LYS:HE3	2:b:5049:ASP:HB2	1.79	0.64
14:T:20:ALA:O	14:T:24:ARG:HB3	1.96	0.64
1:a:5252:HIS:NE2	1:a:5264:SER:HB3	2.12	0.64
3:c:5428:THR:CG2	3:c:5429:SER:N	2.57	0.64
4:d:5201:VAL:O	4:d:5205:LEU:HB3	1.97	0.64
22:d:6005:CLA:H122	28:d:6062:MGE:H263	1.78	0.64
22:d:6005:CLA:H92	22:d:6005:CLA:H121	1.79	0.64
10:k:5032:PHE:O	10:k:5034:ALA:N	2.30	0.64
13:o:5092:VAL:CG1	13:o:5093:PRO:HD2	2.27	0.64
13:o:5266:TYR:OH	13:o:5268:SER:HB3	1.96	0.64
15:u:5043:PRO:HD3	16:v:5108:TYR:HB3	1.78	0.64
20:z:5020:VAL:O	20:z:5024:PRO:CD	2.45	0.64
1:A:150:PRO:CA	22:A:1003:CLA:H52	2.25	0.64
4:D:217:THR:HG21	24:D:1042:PQ9:O4	1.96	0.64
22:D:1005:CLA:H152	22:D:1005:CLA:H202	1.79	0.64
23:D:1039:PHO:CHD	23:D:1039:PHO:CBC	2.74	0.64
5:E:13:ILE:HG13	5:E:19:TYR:HB2	1.79	0.64
13:O:75:THR:HB	13:O:262:GLN:HB2	1.77	0.64
1:a:5104:GLU:OE2	13:o:5099:ARG:HB3	1.96	0.64
1:a:5192:ILE:HG12	1:a:5293:MET:SD	2.37	0.64
2:b:5090:PHE:C	2:b:5090:PHE:CD2	2.75	0.64
2:b:5280:PHE:O	2:b:5284:ILE:HG13	1.96	0.64
16:v:5066:CYS:SG	31:v:6041:HEM:CAC	2.85	0.64
18:y:5039:LEU:HD21	20:z:5028:ALA:CB	2.27	0.64
1:A:36:ILE:HD13	22:C:1029:CLA:H142	1.78	0.64
2:B:174:LEU:HD21	2:B:312:TYR:CE1	2.31	0.64
3:C:50:LEU:CD2	3:C:54:VAL:HG23	2.26	0.64
3:C:70:PHE:O	3:C:73:ALA:HB3	1.96	0.64
3:C:223:TRP:HE1	3:C:224:ILE:HG12	1.62	0.64
3:C:240:ILE:HG13	22:C:1025:CLA:HAB	1.78	0.64
4:D:312:GLU:OE1	13:O:185:PRO:HB3	1.96	0.64
14:T:18:PHE:CA	25:T:6046:BCR:C33	2.74	0.64
16:V:81:ARG:HG3	16:V:157:GLY:HA3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5037:MET:SD	1:a:5126:TYR:HB2	2.37	0.64
23:a:6038:PHO:H201	22:d:6005:CLA:C3B	2.26	0.64
3:c:5050:LEU:HD22	3:c:5051:GLY:N	2.12	0.64
13:o:5129:PHE:O	13:o:5129:PHE:CD2	2.50	0.64
3:C:396:MET:CE	16:V:74:THR:HA	2.26	0.64
3:C:450:ALA:HB3	3:C:456:GLU:HB3	1.79	0.64
4:D:158:LEU:O	4:D:162:LEU:HG	1.96	0.64
22:H:1017:CLA:HBB1	25:H:1049:BCR:H322	1.79	0.64
25:K:1051:BCR:H351	25:K:1051:BCR:C16	2.26	0.64
25:T:6046:BCR:H403	25:T:6046:BCR:C23	2.27	0.64
1:a:5186:PHE:O	1:a:5187:GLN:C	2.40	0.64
2:b:5063:LEU:N	2:b:5064:PRO:CD	2.61	0.64
22:c:6029:CLA:HBA1	8:i:5023:PHE:CE1	2.32	0.64
25:k:6051:BCR:H351	25:k:6051:BCR:C16	2.26	0.64
11:l:5029:LEU:HD13	11:l:5029:LEU:O	1.98	0.64
22:B:1011:CLA:CGA	22:B:1011:CLA:H42	2.28	0.64
22:B:1011:CLA:HMD1	22:B:1014:CLA:CAB	2.27	0.64
22:C:1025:CLA:H143	25:C:1054:BCR:H353	1.80	0.64
1:a:5323:ARG:NE	4:d:5332:GLN:NE2	2.46	0.64
2:b:5137:LYS:O	2:b:5138:MET:C	2.41	0.64
22:c:6025:CLA:C1	22:c:6025:CLA:C4A	2.76	0.64
5:e:5008:ARG:HE	6:f:5013:TYR:CB	2.02	0.64
5:e:5017:VAL:O	5:e:5021:VAL:HG23	1.98	0.64
25:h:6049:BCR:H23C	25:h:6049:BCR:H393	1.71	0.64
25:k:6051:BCR:C35	18:y:5032:GLY:HA3	2.20	0.64
18:y:5043:ARG:HD2	18:y:5044:GLY:H	1.60	0.64
1:A:159:LEU:HD21	29:C:1055:DGD:C7A	2.26	0.64
2:B:69:LEU:HD21	22:B:1013:CLA:O1A	1.97	0.64
2:B:372:ASP:HB3	2:B:376:VAL:HB	1.79	0.64
28:B:1060:MGE:CBB	28:B:1060:MGE:H263	2.28	0.64
3:C:81:MET:HG3	3:C:86:LEU:HD12	1.79	0.64
22:D:1005:CLA:C9	22:D:1005:CLA:H121	2.26	0.64
22:D:1005:CLA:H92	22:D:1005:CLA:H121	1.79	0.64
18:Y:43:ARG:HD3	20:Z:31:GLN:HE21	1.63	0.64
3:c:5049:LEU:CD2	3:c:5052:ALA:CA	2.76	0.64
3:c:5081:MET:HG3	3:c:5086:LEU:HD12	1.79	0.64
22:c:6033:CLA:H2	22:c:6033:CLA:C7	2.27	0.64
22:c:6033:CLA:H91	22:c:6036:CLA:CAA	2.27	0.64
13:o:5148:VAL:HG23	13:o:5172:PHE:CE2	2.33	0.64
14:t:5024:ARG:HD2	14:t:5024:ARG:O	1.97	0.64
16:v:5038:LEU:HA	16:v:5095:ILE:CG2	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:223:LEU:HD11	4:D:265:ARG:HG2	1.78	0.64
22:B:1016:CLA:HBC3	22:B:1016:CLA:CHD	2.26	0.64
3:C:172:ALA:O	3:C:176:VAL:HG23	1.97	0.64
3:C:229:ASN:H	3:C:229:ASN:ND2	1.85	0.64
22:C:1033:CLA:H91	22:C:1036:CLA:CAA	2.27	0.64
4:D:207:GLY:HA2	4:D:274:VAL:HG11	1.79	0.64
7:H:13:PRO:HG2	7:H:14:LEU:CD1	2.22	0.64
7:H:54:ILE:C	7:H:55:LEU:HD22	2.23	0.64
13:O:92:VAL:CG1	13:O:93:PRO:HD2	2.27	0.64
15:U:42:TYR:HB3	15:U:43:PRO:HD2	1.78	0.64
15:U:53:ALA:HB1	15:U:54:PRO:HD2	1.79	0.64
3:c:5281:MET:O	3:c:5285:ILE:HG13	1.97	0.64
22:c:6030:CLA:HHC	22:c:6030:CLA:CBB	2.20	0.64
22:c:6033:CLA:O1A	22:c:6033:CLA:C2	2.45	0.64
4:d:5222:LEU:HD23	4:d:5243:THR:O	1.98	0.64
8:i:5004:LEU:O	8:i:5008:VAL:HG22	1.97	0.64
1:A:39:PRO:HB2	22:A:1007:CLA:CBB	2.27	0.64
22:B:1012:CLA:H43	22:B:1013:CLA:H41	1.79	0.64
3:C:49:LEU:CD2	3:C:52:ALA:CA	2.76	0.64
3:C:374:GLY:HA2	13:O:33:TYR:CD1	2.33	0.64
22:C:1031:CLA:H2	22:C:1031:CLA:HMA3	1.78	0.64
4:D:91:LEU:HG	22:D:1008:CLA:HED2	1.79	0.64
4:D:279:LEU:HD21	23:D:1039:PHO:HMC1	1.80	0.64
12:M:9:ILE:HD12	12:m:5009:ILE:CD1	2.18	0.64
1:a:5093:PHE:HB2	3:c:5218:PHE:HD2	1.61	0.64
2:b:5030:VAL:HG13	22:b:6013:CLA:HMD1	1.79	0.64
2:b:5454:ALA:C	2:b:5456:ALA:H	2.05	0.64
3:c:5274:TYR:HE1	22:c:6029:CLA:O1D	1.81	0.64
3:c:5282:MET:SD	22:c:6025:CLA:H71	2.37	0.64
22:c:6029:CLA:C4	22:c:6029:CLA:C1C	2.75	0.64
22:c:6032:CLA:HBC2	22:c:6032:CLA:HHD	1.79	0.64
7:h:5054:ILE:C	7:h:5055:LEU:HD22	2.23	0.64
1:A:126:TYR:C	1:A:126:TYR:CD2	2.76	0.64
2:B:137:LYS:O	2:B:138:MET:C	2.41	0.64
2:B:173:GLY:HA3	2:B:174:LEU:C	2.23	0.64
2:B:280:PHE:O	2:B:284:ILE:HG13	1.96	0.64
22:B:1015:CLA:H122	22:B:1015:CLA:H91	1.80	0.64
22:B:1021:CLA:H2	22:B:1021:CLA:HED1	1.79	0.64
22:C:1033:CLA:O1A	22:C:1033:CLA:C2	2.45	0.64
29:C:1055:DGD:HAT1	29:C:1055:DGD:HA61	1.78	0.64
15:U:68:THR:HG22	15:U:71:GLN:CB	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:a:6003:CLA:HBC2	22:a:6003:CLA:CHD	2.25	0.64
3:c:5318:LEU:HD23	3:c:5318:LEU:O	1.98	0.64
3:c:5374:GLY:HA2	13:o:5033:TYR:CD1	2.33	0.64
22:c:6033:CLA:HMA1	22:k:6034:CLA:C3C	2.25	0.64
29:c:6056:DGD:HBF1	29:c:6056:DGD:HB92	1.77	0.64
4:d:5091:LEU:HG	22:d:6008:CLA:HED2	1.79	0.64
22:A:1007:CLA:H2A	22:A:1007:CLA:O1D	1.98	0.64
2:B:30:VAL:HG13	22:B:1013:CLA:HMD1	1.80	0.64
2:B:178:VAL:O	2:B:178:VAL:HG13	1.99	0.64
2:B:249:ALA:O	2:B:252:VAL:N	2.31	0.64
22:B:1011:CLA:O1A	22:B:1011:CLA:H42	1.98	0.64
22:C:1029:CLA:C4	22:C:1029:CLA:C1C	2.75	0.64
4:D:145:ALA:HB2	4:D:272:LEU:CD1	2.28	0.64
10:K:21:LEU:HD11	18:Y:24:MET:CG	2.27	0.64
13:O:148:VAL:HG23	13:O:172:PHE:CE2	2.33	0.64
25:T:6048:BCR:H342	22:b:6014:CLA:C9	2.28	0.64
2:b:5030:VAL:CG1	22:b:6013:CLA:HMD1	2.28	0.64
2:b:5097:ALA:C	2:b:5099:ALA:N	2.54	0.64
22:b:6009:CLA:HBB1	22:b:6009:CLA:CHC	2.16	0.64
3:c:5171:GLY:CA	22:c:6025:CLA:HBC1	2.27	0.64
6:f:5034:LEU:HD12	9:j:5024:ILE:CD1	2.28	0.64
13:o:5104:LEU:HD12	13:o:5104:LEU:O	1.98	0.64
15:u:5063:ASN:O	15:u:5063:ASN:ND2	2.31	0.64
1:A:150:PRO:HA	22:A:1003:CLA:H52	1.81	0.63
22:B:1023:CLA:C13	22:B:1024:CLA:HMA1	2.23	0.63
3:C:274:TYR:HE1	22:C:1029:CLA:O1D	1.81	0.63
22:C:1025:CLA:C1	22:C:1025:CLA:C4A	2.76	0.63
22:K:1034:CLA:H121	22:K:1034:CLA:H91	1.79	0.63
16:V:32:GLU:HA	16:V:35:THR:OG1	1.97	0.63
22:a:6006:CLA:CBC	22:a:6006:CLA:CHD	2.74	0.63
2:b:5023:HIS:O	2:b:5027:THR:HB	1.98	0.63
2:b:5173:GLY:HA3	2:b:5174:LEU:C	2.23	0.63
22:b:6022:CLA:H121	12:m:5024:ILE:HD12	1.80	0.63
3:c:5170:ILE:HG22	3:c:5171:GLY:N	2.13	0.63
22:c:6025:CLA:H143	25:c:6054:BCR:H353	1.79	0.63
22:c:6031:CLA:H2A	22:c:6031:CLA:O2D	1.98	0.63
4:d:5123:ILE:O	4:d:5127:LEU:HG	1.97	0.63
13:o:5152:VAL:O	13:o:5152:VAL:HG13	1.98	0.63
18:y:5042:ARG:HB3	18:y:5043:ARG:HE	1.64	0.63
1:A:52:PHE:O	1:A:71:LEU:HD12	1.98	0.63
1:A:192:ILE:HG12	1:A:293:MET:SD	2.37	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:55:MET:HE3	2:B:80:ILE:HG21	1.78	0.63
2:B:75:TRP:HE1	2:B:94:GLU:HB2	1.63	0.63
2:B:451:PHE:HZ	22:B:1012:CLA:O1D	1.81	0.63
22:C:1033:CLA:HHC	22:C:1033:CLA:CBB	2.27	0.63
4:D:201:VAL:O	4:D:205:LEU:HB3	1.97	0.63
5:E:17:VAL:O	5:E:21:VAL:HG23	1.98	0.63
7:H:30:LEU:C	7:H:33:VAL:HG22	2.24	0.63
8:I:4:LEU:O	8:I:8:VAL:HG22	1.97	0.63
13:O:129:PHE:O	13:O:129:PHE:CD2	2.50	0.63
13:O:152:VAL:O	13:O:152:VAL:HG13	1.98	0.63
1:a:5105:TRP:HZ3	25:a:6044:BCR:H393	1.63	0.63
3:c:5263:ALA:CB	3:c:5264:PHE:HD2	2.10	0.63
3:c:5443:TRP:HA	3:c:5443:TRP:CE3	2.33	0.63
15:u:5028:ASN:HD21	15:u:5055:TYR:N	1.95	0.63
15:u:5053:ALA:HB1	15:u:5054:PRO:HD2	1.79	0.63
18:y:5043:ARG:HH21	18:y:5044:GLY:CA	2.11	0.63
18:y:5043:ARG:HD3	20:z:5031:GLN:HE21	1.63	0.63
1:A:119:PHE:C	1:A:119:PHE:CD2	2.76	0.63
22:A:1006:CLA:O2D	22:A:1006:CLA:H2A	1.99	0.63
2:B:30:VAL:CG1	22:B:1013:CLA:HMD1	2.28	0.63
22:B:1022:CLA:H121	12:M:24:ILE:HD12	1.80	0.63
4:D:155:SER:HA	4:D:159:ILE:HB	1.78	0.63
4:D:328:TRP:CZ3	16:V:161:VAL:HA	2.33	0.63
11:L:29:LEU:HD13	11:L:29:LEU:O	1.98	0.63
22:a:6006:CLA:HHC	22:a:6006:CLA:CBB	2.23	0.63
2:b:5025:MET:C	2:b:5027:THR:H	2.06	0.63
2:b:5452:THR:O	2:b:5456:ALA:HB2	1.99	0.63
22:b:6018:CLA:H2A	22:b:6018:CLA:O2D	1.99	0.63
3:c:5407:VAL:HG13	3:c:5407:VAL:O	1.99	0.63
11:l:5026:VAL:HG12	11:l:5027:LEU:N	2.14	0.63
1:A:325:ASN:ND2	1:A:328:MET:HE3	2.13	0.63
2:B:97:ALA:C	2:B:99:ALA:N	2.54	0.63
22:B:1014:CLA:C9	25:B:1048:BCR:H342	2.28	0.63
3:C:425:TRP:CH2	22:C:1028:CLA:O1A	2.52	0.63
22:C:1029:CLA:HMD2	22:C:1031:CLA:CAB	2.28	0.63
22:C:1036:CLA:HBB1	22:C:1036:CLA:CHC	2.28	0.63
4:D:87:HIS:NE2	4:D:162:LEU:HA	2.13	0.63
4:D:123:ILE:O	4:D:127:LEU:HG	1.97	0.63
13:O:104:LEU:HD12	13:O:104:LEU:O	1.98	0.63
18:Y:39:LEU:HD21	20:Z:28:ALA:CB	2.27	0.63
2:b:5463:PHE:HE1	22:b:6016:CLA:CBB	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:b:6011:CLA:H11	22:b:6011:CLA:CHB	2.29	0.63
22:c:6030:CLA:HED3	22:c:6030:CLA:CHA	2.27	0.63
24:d:6042:PQ9:H241	28:l:6061:MGE:H263	1.79	0.63
7:h:5030:LEU:C	7:h:5033:VAL:HG22	2.24	0.63
22:k:6034:CLA:O1D	22:k:6034:CLA:CAA	2.30	0.63
15:u:5068:THR:HG22	15:u:5071:GLN:CB	2.28	0.63
1:A:323:ARG:NE	4:D:332:GLN:NE2	2.46	0.63
1:A:331:MET:HE1	4:D:348:ARG:CA	2.29	0.63
2:B:103:LEU:HD12	2:B:107:LEU:HG	1.79	0.63
2:B:357:ARG:HG2	2:B:357:ARG:NH1	2.08	0.63
28:B:1060:MGE:CGB	28:B:1060:MGE:H211	2.29	0.63
3:C:362:ARG:HD2	3:C:367:GLU:OE2	1.98	0.63
3:C:417:VAL:CG1	16:V:68:VAL:HG11	2.25	0.63
4:D:194:ASN:O	4:D:198:MET:HG3	1.97	0.63
22:K:1034:CLA:H12	22:K:1034:CLA:ND	2.12	0.63
12:M:9:ILE:CD1	12:m:5009:ILE:HD12	2.18	0.63
20:Z:5:PHE:HE1	20:Z:54:VAL:HG13	1.63	0.63
1:a:5338:ASN:O	1:a:5339:PHE:CG	2.51	0.63
26:a:6063:LHG:HC82	3:c:5036:TRP:CE2	2.33	0.63
3:c:5223:TRP:CD1	3:c:5224:ILE:CG1	2.81	0.63
3:c:5280:SER:OG	3:c:5438:LEU:HB2	1.98	0.63
22:h:6017:CLA:HBB1	25:h:6049:BCR:H322	1.79	0.63
10:k:5033:PHE:O	10:k:5036:ALA:HB3	1.98	0.63
1:A:254:TYR:CD2	4:D:132:ILE:HG22	2.34	0.63
2:B:220:ARG:HG3	7:H:21:VAL:HA	1.80	0.63
3:C:230:LEU:O	3:C:234:VAL:HG12	1.98	0.63
3:C:418:ASN:OD1	29:C:1056:DGD:HE2	1.99	0.63
3:C:437:PHE:HA	22:C:1032:CLA:HMC1	1.79	0.63
3:C:443:TRP:CE3	3:C:443:TRP:HA	2.33	0.63
22:C:1031:CLA:H2A	22:C:1031:CLA:O2D	1.98	0.63
22:C:1032:CLA:HBC2	22:C:1032:CLA:HHD	1.79	0.63
22:C:1032:CLA:H161	29:C:1056:DGD:CDB	2.29	0.63
25:C:1054:BCR:C8	25:C:1054:BCR:H311	2.29	0.63
22:K:1034:CLA:CGD	22:K:1034:CLA:CGA	2.76	0.63
13:O:148:VAL:O	13:O:148:VAL:HG22	1.98	0.63
18:Y:42:ARG:HB3	18:Y:43:ARG:HE	1.64	0.63
1:a:5087:ASN:ND2	3:c:5357:ARG:HE	1.97	0.63
1:a:5093:PHE:O	1:a:5095:PRO:HD3	1.99	0.63
1:a:5105:TRP:CZ2	1:a:5111:PRO:HA	2.34	0.63
28:b:6060:MGE:CBB	28:b:6060:MGE:H263	2.28	0.63
3:c:5042:LEU:CD1	3:c:5049:LEU:HD11	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5193:GLY:O	3:c:5194:GLY:C	2.40	0.63
6:f:5021:VAL:O	6:f:5025:THR:HG23	1.98	0.63
22:k:6034:CLA:CGD	22:k:6034:CLA:CGA	2.77	0.63
1:A:93:PHE:O	1:A:95:PRO:HD3	1.99	0.63
3:C:155:ASN:CA	3:C:158:THR:HG22	2.26	0.63
3:C:170:ILE:HG22	3:C:171:GLY:N	2.13	0.63
3:C:193:GLY:O	3:C:194:GLY:C	2.40	0.63
3:C:223:TRP:CD1	3:C:224:ILE:CG1	2.81	0.63
3:C:240:ILE:HG13	22:C:1025:CLA:CAB	2.29	0.63
4:D:182:LEU:O	4:D:185:PHE:N	2.29	0.63
4:D:189:HIS:CG	4:D:289:LEU:HD22	2.34	0.63
22:D:1004:CLA:H142	22:D:1004:CLA:C10	2.28	0.63
22:K:1034:CLA:C4D	22:K:1034:CLA:C1	2.77	0.63
1:a:5012:ASN:O	1:a:5015:GLU:HG3	1.99	0.63
1:a:5290:ILE:HG22	1:a:5291:SER:N	2.14	0.63
22:a:6006:CLA:O2D	22:a:6006:CLA:H2A	1.99	0.63
2:b:5103:LEU:HD13	22:b:6014:CLA:C9	2.28	0.63
2:b:5249:ALA:O	2:b:5252:VAL:N	2.31	0.63
2:b:5288:VAL:O	2:b:5292:LEU:HB2	1.99	0.63
22:b:6011:CLA:CGA	22:b:6011:CLA:H42	2.28	0.63
3:c:5223:TRP:HE1	3:c:5224:ILE:HG12	1.62	0.63
3:c:5240:ILE:HG13	22:c:6025:CLA:CAB	2.29	0.63
22:d:6005:CLA:H152	22:d:6005:CLA:H202	1.79	0.63
10:k:5021:LEU:HD11	18:y:5024:MET:CG	2.27	0.63
15:u:5016:LYS:HG2	15:u:5021:TYR:CD1	2.34	0.63
15:u:5070:ARG:O	15:u:5073:GLN:HB3	1.99	0.63
1:A:116:ILE:CD1	1:A:158:PHE:HB3	2.27	0.63
2:B:111:ALA:C	2:B:113:TRP:H	2.07	0.63
2:B:288:VAL:O	2:B:292:LEU:HB2	1.99	0.63
3:C:280:SER:OG	3:C:438:LEU:HB2	1.98	0.63
3:C:443:TRP:HA	3:C:443:TRP:HE3	1.64	0.63
4:D:19:ASP:OD2	4:D:23:LYS:HD3	1.99	0.63
5:E:47:PHE:C	5:E:49:THR:H	2.07	0.63
25:H:1049:BCR:H401	17:X:20:PHE:HZ	1.64	0.63
13:O:144:LEU:H	13:O:144:LEU:HD23	1.64	0.63
15:U:70:ARG:O	15:U:73:GLN:HB3	1.99	0.63
15:U:78:ASN:HB3	15:U:82:PHE:HE2	1.64	0.63
16:V:38:LEU:O	16:V:94:ASN:HB3	1.99	0.63
16:V:62:ALA:HB1	31:V:1041:HEM:HBB1	1.80	0.63
1:a:5150:PRO:HA	22:a:6003:CLA:H52	1.81	0.63
22:b:6009:CLA:C3D	22:b:6010:CLA:HBB2	2.26	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5229:ASN:H	3:c:5229:ASN:ND2	1.85	0.63
3:c:5333:GLY:H	3:c:5338:GLY:CA	2.10	0.63
4:d:5037:LEU:HD13	4:d:5125:PHE:HA	1.81	0.63
5:e:5047:PHE:C	5:e:5049:THR:H	2.07	0.63
22:k:6034:CLA:H12	22:k:6034:CLA:ND	2.12	0.63
15:u:5078:ASN:HB3	15:u:5082:PHE:HE2	1.64	0.63
1:A:105:TRP:HZ3	25:A:1044:BCR:H393	1.62	0.63
1:A:212:CYS:CB	4:D:211:CYS:HB2	2.24	0.63
22:A:1006:CLA:C17	25:D:1050:BCR:C27	2.66	0.63
22:A:1007:CLA:H71	22:A:1007:CLA:H41	1.80	0.63
24:A:1043:PQ9:H293	23:D:1039:PHO:CBA	2.29	0.63
2:B:63:LEU:N	2:B:64:PRO:CD	2.61	0.63
3:C:146:PHE:O	3:C:146:PHE:CD1	2.52	0.63
3:C:159:THR:HA	3:C:252:ILE:HA	1.81	0.63
23:D:1039:PHO:CMA	22:D:1004:CLA:H102	2.28	0.63
8:I:9:TYR:O	8:I:12:VAL:HG12	1.99	0.63
1:a:5196:PRO:HB2	29:c:6057:DGD:C8A	2.26	0.63
2:b:5297:THR:OG1	2:b:5300:GLU:HG3	1.99	0.63
2:b:5372:ASP:HB3	2:b:5376:VAL:HB	1.79	0.63
3:c:5049:LEU:HD22	3:c:5052:ALA:CA	2.29	0.63
22:c:6035:CLA:H2A	22:c:6035:CLA:O2D	1.99	0.63
29:c:6055:DGD:HAT1	29:c:6055:DGD:HA61	1.78	0.63
4:d:5106:GLN:C	4:d:5108:GLY:H	2.07	0.63
4:d:5145:ALA:HB2	4:d:5272:LEU:CD1	2.28	0.63
4:d:5189:HIS:CG	4:d:5289:LEU:HD22	2.34	0.63
1:A:335:ASN:ND2	13:O:182:PHE:CE1	2.67	0.62
26:A:1063:LHG:HC82	3:C:36:TRP:CE2	2.33	0.62
2:B:15:ASP:N	2:B:16:PRO:HD3	2.14	0.62
3:C:51:GLY:O	3:C:55:ALA:N	2.24	0.62
3:C:184:GLY:O	3:C:185:LEU:HD23	1.99	0.62
3:C:265:ILE:CD1	3:C:452:ALA:CB	2.61	0.62
11:L:26:VAL:HG12	11:L:27:LEU:N	2.14	0.62
25:T:6048:BCR:C34	22:b:6023:CLA:H41	2.29	0.62
18:Y:43:ARG:HH21	18:Y:44:GLY:CA	2.12	0.62
2:b:5111:ALA:C	2:b:5113:TRP:H	2.07	0.62
3:c:5171:GLY:HA3	22:c:6025:CLA:HBC1	1.81	0.62
3:c:5377:LEU:C	3:c:5377:LEU:HD13	2.24	0.62
3:c:5417:VAL:HG12	16:v:5068:VAL:CB	2.21	0.62
3:c:5418:ASN:OD1	29:c:6056:DGD:HE2	1.99	0.62
4:d:5061:HIS:HE1	4:d:5080:THR:HG23	1.63	0.62
4:d:5279:LEU:HD21	23:d:6039:PHO:HMC1	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:d:6005:CLA:C12	22:d:6005:CLA:H92	2.28	0.62
15:u:5016:LYS:HZ1	15:u:5085:THR:HB	1.64	0.62
23:A:1038:PHO:HHD	23:A:1038:PHO:CBC	2.28	0.62
22:C:1035:CLA:O2D	22:C:1035:CLA:H2A	1.99	0.62
4:D:150:ILE:O	4:D:154:VAL:HG23	1.99	0.62
25:D:1050:BCR:C22	28:D:1059:MGE:C3A	2.75	0.62
16:V:119:PRO:HA	16:V:127:PHE:CD2	2.35	0.62
1:a:5322:ASN:HA	1:a:5325:ASN:HB2	1.82	0.62
2:b:5178:VAL:O	2:b:5178:VAL:HG13	1.98	0.62
2:b:5220:ARG:HG3	7:h:5021:VAL:HA	1.80	0.62
2:b:5271:THR:HG23	2:b:5274:GLN:HB2	1.81	0.62
3:c:5039:ASN:HB2	22:c:6032:CLA:CBA	2.28	0.62
3:c:5362:ARG:HD2	3:c:5367:GLU:OE2	1.98	0.62
4:d:5273:PHE:O	4:d:5274:VAL:C	2.42	0.62
4:d:5328:TRP:CZ3	16:v:5161:VAL:HA	2.33	0.62
25:d:6050:BCR:C22	28:d:6059:MGE:C3A	2.75	0.62
8:i:5005:LYS:O	8:i:5008:VAL:HG23	2.00	0.62
8:i:5009:TYR:O	8:i:5012:VAL:HG12	1.99	0.62
13:o:5068:ARG:O	13:o:5068:ARG:HG3	2.00	0.62
15:u:5045:LEU:HD13	15:u:5071:GLN:HG2	1.80	0.62
1:A:87:ASN:ND2	3:C:357:ARG:HE	1.97	0.62
1:A:309:ALA:HB3	16:V:28:GLU:HB2	1.79	0.62
22:B:1011:CLA:CAA	22:B:1011:CLA:CGD	2.77	0.62
22:B:1011:CLA:H11	22:B:1011:CLA:CHB	2.29	0.62
6:F:21:VAL:O	6:F:25:THR:HG23	1.98	0.62
1:a:5059:ASP:O	1:a:5060:ILE:C	2.42	0.62
1:a:5254:TYR:CD2	4:d:5132:ILE:HG22	2.34	0.62
22:a:6006:CLA:HBC2	4:d:5182:LEU:HD21	1.81	0.62
22:a:6007:CLA:O1D	22:a:6007:CLA:H2A	1.98	0.62
22:b:6013:CLA:HMC1	22:b:6013:CLA:HBC3	1.81	0.62
3:c:5165:LEU:HB2	3:c:5248:GLY:CA	2.29	0.62
4:d:5087:HIS:NE2	4:d:5162:LEU:HA	2.13	0.62
4:d:5184:PHE:CE2	4:d:5188:PHE:HD1	2.11	0.62
25:k:6051:BCR:H353	18:y:5032:GLY:CA	2.20	0.62
13:o:5144:LEU:HD23	13:o:5144:LEU:H	1.64	0.62
16:v:5062:ALA:HB1	31:v:6041:HEM:HBB1	1.80	0.62
1:A:105:TRP:CZ2	1:A:111:PRO:HA	2.34	0.62
1:A:223:LEU:HD21	4:D:265:ARG:CG	2.29	0.62
24:A:1043:PQ9:H37	24:A:1043:PQ9:C29	2.29	0.62
2:B:45:PHE:HA	2:B:58:GLN:HE22	1.64	0.62
2:B:103:LEU:HD13	22:B:1014:CLA:C9	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:452:THR:O	2:B:456:ALA:HB2	1.99	0.62
25:B:1048:BCR:H371	25:B:1048:BCR:H392	1.32	0.62
3:C:58:GLY:HA2	3:C:61:VAL:HG12	1.82	0.62
3:C:318:LEU:HD23	3:C:318:LEU:O	1.98	0.62
22:C:1035:CLA:H141	25:K:1051:BCR:C34	2.30	0.62
4:D:174:GLY:HA3	4:D:177:ALA:HB3	1.81	0.62
8:I:5:LYS:O	8:I:8:VAL:HG23	2.00	0.62
11:L:20:GLY:HA3	12:M:22:LEU:HD13	1.82	0.62
1:a:5199:GLN:O	1:a:5202:VAL:HG12	1.98	0.62
1:a:5336:ALA:O	1:a:5337:HIS:C	2.42	0.62
22:a:6007:CLA:H112	22:a:6007:CLA:C5	2.30	0.62
2:b:5181:VAL:CG1	2:b:5196:GLY:HA2	2.29	0.62
22:b:6018:CLA:H141	22:b:6018:CLA:H172	1.82	0.62
22:b:6023:CLA:H152	22:b:6024:CLA:C4A	2.30	0.62
3:c:5351:PHE:CD2	3:c:5375:LEU:HD11	2.34	0.62
10:k:5020:PRO:HA	18:y:5021:GLN:HG2	1.81	0.62
11:l:5020:GLY:HA3	12:m:5022:LEU:HD13	1.82	0.62
16:v:5038:LEU:O	16:v:5094:ASN:HB3	1.99	0.62
1:A:41:LEU:HD22	1:A:41:LEU:N	2.15	0.62
1:A:199:GLN:O	1:A:202:VAL:HG12	1.98	0.62
2:B:134:ASP:O	2:B:138:MET:HE2	2.00	0.62
2:B:138:MET:SD	22:B:1023:CLA:HAC2	2.40	0.62
22:B:1018:CLA:O2D	22:B:1018:CLA:H2A	1.99	0.62
3:C:48:LYS:CD	22:C:1035:CLA:HED1	2.27	0.62
3:C:165:LEU:HB2	3:C:248:GLY:CA	2.30	0.62
22:C:1033:CLA:HMA3	22:K:1034:CLA:HMC2	1.81	0.62
4:D:106:GLN:C	4:D:108:GLY:H	2.07	0.62
4:D:170:ALA:O	4:D:171:PRO:O	2.18	0.62
23:D:1039:PHO:HMA3	22:D:1004:CLA:H142	1.76	0.62
8:I:13:THR:O	8:I:14:PHE:C	2.43	0.62
10:K:20:PRO:HA	18:Y:21:GLN:HG2	1.81	0.62
1:a:5215:HIS:CD2	1:a:5275:LEU:HD11	2.35	0.62
2:b:5121:GLU:CB	7:h:5004:ARG:HB3	2.29	0.62
2:b:5225:LEU:HD11	7:h:5028:THR:OG1	2.00	0.62
3:c:5293:ASN:ND2	3:c:5295:THR:HB	2.15	0.62
3:c:5437:PHE:HA	22:c:6032:CLA:HMC1	1.79	0.62
3:c:5438:LEU:HD13	3:c:5438:LEU:C	2.24	0.62
22:c:6035:CLA:HBB2	22:k:6034:CLA:CHB	2.29	0.62
22:c:6036:CLA:HBB1	22:c:6036:CLA:CHC	2.28	0.62
4:d:5078:VAL:HG12	4:d:5173:PHE:HB3	1.82	0.62
25:d:6050:BCR:C38	25:d:6050:BCR:C23	2.59	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:5105:PRO:HG2	16:v:5115:ALA:N	2.14	0.62
2:B:24:LEU:HD21	2:B:110:ALA:O	1.99	0.62
2:B:24:LEU:HD23	2:B:111:ALA:HA	1.81	0.62
2:B:112:CYS:SG	14:t:5023:PHE:CZ	2.91	0.62
28:B:1060:MGE:H5B2	4:D:276:VAL:HB	1.81	0.62
3:C:75:PHE:CD1	3:C:86:LEU:HD11	2.34	0.62
22:C:1028:CLA:HMC2	22:K:1034:CLA:HED1	1.81	0.62
4:D:275:PRO:O	4:D:277:THR:N	2.33	0.62
28:D:1059:MGE:O5D	6:F:40:MET:HB2	2.00	0.62
28:D:1062:MGE:O1A	28:D:1062:MGE:H4B1	2.00	0.62
25:H:1049:BCR:H321	25:H:1049:BCR:C8	2.29	0.62
8:I:16:VAL:O	8:I:20:VAL:HG23	2.00	0.62
13:O:181:ASN:O	13:O:182:PHE:HB2	1.99	0.62
15:U:16:LYS:HG2	15:U:21:TYR:CD1	2.34	0.62
16:V:105:PRO:HG2	16:V:115:ALA:N	2.14	0.62
24:a:6043:PQ9:H37	24:a:6043:PQ9:C30	2.29	0.62
24:a:6043:PQ9:H293	23:d:6039:PHO:CBA	2.29	0.62
22:b:6011:CLA:O1A	22:b:6011:CLA:H42	1.98	0.62
3:c:5425:TRP:CH2	22:c:6028:CLA:O1A	2.52	0.62
22:c:6025:CLA:O2A	22:c:6025:CLA:H3A	1.99	0.62
22:c:6030:CLA:HMB2	22:c:6031:CLA:C4B	2.07	0.62
5:e:5013:ILE:HG13	5:e:5019:TYR:HB2	1.79	0.62
6:f:5045:ARG:HE	6:f:5045:ARG:CA	1.97	0.62
14:t:5018:PHE:CD1	25:t:1046:BCR:H332	2.33	0.62
20:z:5005:PHE:HE1	20:z:5054:VAL:HG13	1.63	0.62
2:B:91:TRP:CD1	22:B:1014:CLA:HBA2	2.35	0.62
2:B:297:THR:OG1	2:B:300:GLU:HG3	1.99	0.62
22:B:1014:CLA:CBC	22:B:1014:CLA:CHD	2.72	0.62
3:C:386:PRO:HB2	16:V:116:GLU:OE1	2.00	0.62
4:D:274:VAL:HG22	24:D:1042:PQ9:H261	1.81	0.62
16:V:54:GLU:OE2	16:V:57:ARG:HD3	1.99	0.62
1:a:5223:LEU:O	1:a:5224:ILE:CB	2.41	0.62
24:a:6043:PQ9:H37	24:a:6043:PQ9:C29	2.30	0.62
2:b:5091:TRP:CD1	22:b:6014:CLA:HBA2	2.35	0.62
3:c:5184:GLY:O	3:c:5185:LEU:HD23	1.99	0.62
3:c:5230:LEU:O	3:c:5234:VAL:HG12	1.98	0.62
22:c:6029:CLA:H51	22:c:6029:CLA:NB	2.15	0.62
22:c:6035:CLA:C3B	25:k:6052:BCR:H271	2.29	0.62
25:c:6054:BCR:C8	25:c:6054:BCR:H311	2.29	0.62
25:h:6049:BCR:H401	17:x:5020:PHE:HZ	1.64	0.62
8:i:5016:VAL:O	8:i:5020:VAL:HG23	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:k:6034:CLA:C4D	22:k:6034:CLA:C1	2.77	0.62
1:A:160:ILE:HD13	3:C:431:PHE:CE1	2.35	0.62
1:A:215:HIS:CD2	1:A:275:LEU:HD11	2.35	0.62
1:A:290:ILE:HG22	1:A:291:SER:N	2.14	0.62
2:B:23:HIS:O	2:B:27:THR:HB	1.98	0.62
2:B:24:LEU:HD21	2:B:110:ALA:C	2.25	0.62
2:B:25:MET:C	2:B:27:THR:H	2.06	0.62
2:B:181:VAL:CG1	2:B:196:GLY:HA2	2.29	0.62
2:B:315:ILE:HG22	2:B:426:PHE:O	1.99	0.62
22:B:1013:CLA:HBC3	22:B:1013:CLA:HMC1	1.81	0.62
22:B:1023:CLA:C9	22:B:1024:CLA:H152	2.30	0.62
3:C:407:VAL:O	3:C:407:VAL:HG13	1.99	0.62
22:C:1035:CLA:HBB2	22:K:1034:CLA:CHB	2.29	0.62
6:F:34:LEU:HD12	9:J:24:ILE:CD1	2.28	0.62
2:b:5024:LEU:HD21	2:b:5110:ALA:O	1.99	0.62
3:c:5146:PHE:O	3:c:5146:PHE:CD1	2.52	0.62
3:c:5160:ILE:HG22	3:c:5161:LEU:N	2.14	0.62
4:d:5019:ASP:OD2	4:d:5023:LYS:HD3	1.99	0.62
4:d:5054:PHE:HB3	5:e:5047:PHE:HD1	1.65	0.62
7:h:5012:ARG:N	7:h:5013:PRO:HD2	2.15	0.62
15:u:5043:PRO:HG3	16:v:5108:TYR:C	2.25	0.62
16:v:5119:PRO:HA	16:v:5127:PHE:CD2	2.34	0.62
18:y:5043:ARG:CD	18:y:5044:GLY:N	2.63	0.62
1:A:270:SER:O	1:A:273:PHE:HB3	2.00	0.62
3:C:135:ARG:HG2	20:Z:27:TYR:HB3	1.82	0.62
22:C:1025:CLA:C9	25:C:1054:BCR:H373	2.29	0.62
22:C:1035:CLA:C3B	25:C:1052:BCR:H271	2.29	0.62
4:D:61:HIS:HE1	4:D:80:THR:HG23	1.63	0.62
4:D:223:PHE:CE1	4:D:245:SER:HB2	2.35	0.62
5:E:77:GLU:O	5:E:81:GLU:N	2.33	0.62
15:U:45:LEU:HD13	15:U:71:GLN:HG2	1.80	0.62
1:a:5052:PHE:O	1:a:5071:LEU:HD12	1.98	0.62
1:a:5331:MET:HE1	4:d:5348:ARG:CA	2.29	0.62
2:b:5002:GLY:C	11:l:5011:GLU:HB2	2.25	0.62
2:b:5134:ASP:O	2:b:5138:MET:HE2	2.00	0.62
2:b:5315:ILE:HG22	2:b:5426:PHE:O	1.99	0.62
22:b:6015:CLA:H91	22:b:6015:CLA:H122	1.80	0.62
3:c:5117:VAL:HG21	22:c:6027:CLA:H162	1.81	0.62
4:d:5150:ILE:O	4:d:5154:VAL:HG23	1.99	0.62
16:v:5094:ASN:C	16:v:5096:GLU:N	2.52	0.62
1:A:330:VAL:HG11	4:D:348:ARG:HG2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:2:GLY:C	11:L:11:GLU:HB2	2.25	0.62
2:B:121:GLU:CB	7:H:4:ARG:HB3	2.29	0.62
2:B:225:LEU:HD11	7:H:28:THR:OG1	2.00	0.62
2:B:419:SER:HA	2:B:422:ARG:HH12	1.65	0.62
3:C:438:LEU:HD13	3:C:438:LEU:C	2.24	0.62
3:C:451:ALA:CA	3:C:456:GLU:HG2	2.30	0.62
11:L:22:LEU:HG	28:L:1061:MGE:H221	1.82	0.62
13:O:59:ASP:H	13:O:64:TYR:HE1	1.47	0.62
14:T:8:PHE:CE1	27:T:1066:IOD:I	3.23	0.62
1:a:5064:ARG:NH2	13:o:5131:PRO:O	2.33	0.62
1:a:5320:ILE:O	1:a:5321:ILE:C	2.43	0.62
1:a:5335:ASN:ND2	13:o:5182:PHE:CE1	2.67	0.62
2:b:5138:MET:SD	22:b:6023:CLA:HAC2	2.40	0.62
22:b:6023:CLA:C15	22:b:6024:CLA:C4A	2.78	0.62
3:c:5216:SER:HB2	3:c:5221:GLU:HB2	1.82	0.62
3:c:5275:SER:CB	22:c:6033:CLA:HED1	2.20	0.62
3:c:5348:GLU:HB3	13:o:5042:ALA:HB3	1.79	0.62
4:d:5036:LEU:HD23	4:d:5037:LEU:H	1.65	0.62
4:d:5219:GLU:O	4:d:5222:LEU:HB2	2.00	0.62
4:d:5274:VAL:HG22	24:d:6042:PQ9:H261	1.82	0.62
23:d:6039:PHO:CMA	22:d:6004:CLA:H102	2.28	0.62
28:d:6059:MGE:CBB	28:d:6059:MGE:CFB	2.47	0.62
5:e:5077:GLU:O	5:e:5081:GLU:N	2.33	0.62
6:f:5040:MET:HB3	6:f:5043:ILE:HD11	1.82	0.62
7:h:5030:LEU:HB3	22:h:6017:CLA:CMD	2.30	0.62
13:o:5148:VAL:O	13:o:5148:VAL:HG22	1.98	0.62
15:u:5059:GLU:C	15:u:5061:VAL:N	2.58	0.62
16:v:5054:GLU:OE2	16:v:5057:ARG:HD3	1.99	0.62
1:A:64:ARG:NH2	13:O:131:PRO:O	2.33	0.61
22:A:1007:CLA:H112	22:A:1007:CLA:C5	2.30	0.61
2:B:222:PRO:HB2	2:B:225:LEU:HD13	1.82	0.61
2:B:271:THR:HG23	2:B:274:GLN:HB2	1.81	0.61
2:B:285:ASN:HA	2:B:288:VAL:HG12	1.82	0.61
2:B:429:ILE:H	2:B:429:ILE:CD1	2.13	0.61
22:B:1016:CLA:H162	22:D:1008:CLA:HMA1	0.64	0.61
22:B:1019:CLA:HMD2	28:B:1060:MGE:C1G	2.29	0.61
22:B:1023:CLA:H41	25:B:1048:BCR:C34	2.29	0.61
3:C:42:LEU:HD13	3:C:49:LEU:HD11	1.80	0.61
3:C:321:ASP:O	3:C:324:LEU:N	2.33	0.61
3:C:327:ASN:HD21	3:C:330:SER:C	2.08	0.61
3:C:377:LEU:C	3:C:377:LEU:HD13	2.24	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:C:1033:CLA:HMA1	22:K:1034:CLA:C3C	2.25	0.61
22:D:1008:CLA:C19	22:D:1008:CLA:H141	2.18	0.61
7:H:30:LEU:HB3	22:H:1017:CLA:CMD	2.30	0.61
16:V:66:CYS:SG	31:V:1041:HEM:C3C	2.93	0.61
1:a:5126:TYR:C	1:a:5126:TYR:CD2	2.76	0.61
1:a:5290:ILE:CG2	1:a:5291:SER:N	2.63	0.61
2:b:5090:PHE:HZ	2:b:5098:LEU:HD12	1.65	0.61
2:b:5133:LEU:HA	7:h:5015:ASN:HD21	1.65	0.61
28:b:6060:MGE:H5B2	4:d:5276:VAL:HB	1.81	0.61
3:c:5240:ILE:O	3:c:5240:ILE:HD13	2.00	0.61
22:c:6028:CLA:C9	29:c:6056:DGD:HB91	2.30	0.61
25:c:6054:BCR:H23C	25:c:6054:BCR:H402	1.73	0.61
29:c:6056:DGD:HBF1	29:c:6056:DGD:CAB	2.30	0.61
4:d:5275:PRO:O	4:d:5277:THR:N	2.33	0.61
22:d:6005:CLA:H93	28:d:6062:MGE:H211	1.82	0.61
22:d:6004:CLA:H142	22:d:6004:CLA:C10	2.28	0.61
22:d:6008:CLA:HMA2	22:d:6008:CLA:CBA	2.02	0.61
5:e:5011:SER:O	5:e:5015:THR:HB	2.00	0.61
1:A:297:LEU:CD2	3:C:404:LEU:HD23	2.30	0.61
1:A:322:ASN:HA	1:A:325:ASN:HB2	1.82	0.61
22:A:1006:CLA:HHC	22:A:1006:CLA:CBB	2.23	0.61
2:B:90:PHE:HZ	2:B:98:LEU:HD12	1.65	0.61
3:C:39:ASN:HB2	22:C:1032:CLA:CBA	2.28	0.61
3:C:160:ILE:HG22	3:C:161:LEU:N	2.14	0.61
3:C:264:PHE:O	3:C:266:TRP:CD1	2.54	0.61
13:O:92:VAL:HG13	13:O:93:PRO:HD2	1.83	0.61
13:O:251:MET:H	13:O:251:MET:HE2	1.65	0.61
15:U:43:PRO:HG3	16:V:108:TYR:C	2.25	0.61
2:b:5017:GLY:HA2	2:b:5123:PHE:CE1	2.35	0.61
2:b:5024:LEU:HD23	2:b:5111:ALA:HA	1.81	0.61
3:c:5048:LYS:CD	22:c:6035:CLA:HED1	2.27	0.61
23:d:6039:PHO:O2D	23:d:6039:PHO:H2A	2.01	0.61
13:o:5181:ASN:O	13:o:5182:PHE:HB2	1.99	0.61
16:v:5066:CYS:SG	31:v:6041:HEM:C3C	2.94	0.61
1:A:59:ASP:O	1:A:60:ILE:C	2.43	0.61
1:A:273:PHE:CE1	26:A:1063:LHG:HC61	2.35	0.61
1:A:320:ILE:O	1:A:321:ILE:C	2.43	0.61
22:B:1023:CLA:H152	22:B:1024:CLA:C4A	2.29	0.61
3:C:49:LEU:HD22	3:C:52:ALA:CA	2.29	0.61
3:C:351:PHE:CD2	3:C:375:LEU:HD11	2.35	0.61
22:C:1028:CLA:C6	29:C:1057:DGD:HA42	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:54:PHE:HB3	5:E:47:PHE:HD1	1.65	0.61
5:E:11:SER:O	5:E:15:THR:HB	2.00	0.61
1:a:5160:ILE:HD13	3:c:5431:PHE:CE1	2.35	0.61
1:a:5273:PHE:CE1	26:a:6063:LHG:HC61	2.35	0.61
1:a:5340:PRO:HD3	15:u:5103:TYR:CE2	2.36	0.61
23:a:6038:PHO:HHD	23:a:6038:PHO:CBC	2.28	0.61
2:b:5135:LEU:HD12	2:b:5135:LEU:N	2.15	0.61
22:b:6011:CLA:HAA1	22:b:6011:CLA:CGD	2.30	0.61
22:b:6016:CLA:H162	22:d:6008:CLA:HMA1	0.64	0.61
3:c:5386:PRO:HB2	16:v:5116:GLU:OE1	2.00	0.61
3:c:5443:TRP:HA	3:c:5443:TRP:HE3	1.64	0.61
8:i:5029:ALA:O	8:i:5030:ARG:HB2	2.01	0.61
13:o:5251:MET:H	13:o:5251:MET:HE2	1.65	0.61
16:v:5038:LEU:CA	16:v:5045:ILE:HD11	2.31	0.61
16:v:5062:ALA:O	16:v:5063:CYS:CB	2.48	0.61
1:A:197:PHE:HD1	1:A:285:PHE:HB3	1.65	0.61
1:A:300:PHE:HB3	1:A:302:PHE:CE1	2.36	0.61
2:B:135:LEU:HD12	2:B:135:LEU:N	2.15	0.61
22:B:1023:CLA:C15	22:B:1024:CLA:C4A	2.78	0.61
3:C:117:VAL:HG11	22:C:1027:CLA:C1	2.31	0.61
22:C:1033:CLA:HMA3	22:K:1034:CLA:C2C	2.30	0.61
25:C:1052:BCR:H361	10:K:32:PHE:HE2	1.63	0.61
12:M:3:VAL:HG23	12:M:4:ASN:O	2.01	0.61
15:U:27:LEU:HD21	15:U:82:PHE:HD1	1.65	0.61
1:a:5041:LEU:HD22	1:a:5041:LEU:N	2.15	0.61
1:a:5171:GLY:O	1:a:5172:MET:C	2.44	0.61
2:b:5451:PHE:HZ	22:b:6012:CLA:O1D	1.81	0.61
22:c:6029:CLA:HMD2	22:c:6031:CLA:CAB	2.28	0.61
29:c:6056:DGD:HB81	29:c:6056:DGD:HBV2	1.81	0.61
4:d:5313:THR:O	4:d:5316:THR:HG23	2.00	0.61
28:d:6059:MGE:O5D	6:f:5040:MET:HB2	2.00	0.61
8:i:5004:LEU:HA	8:i:5007:THR:OG1	2.00	0.61
12:m:5003:VAL:HG23	12:m:5004:ASN:O	2.01	0.61
13:o:5188:ARG:CB	13:o:5188:ARG:HH11	2.14	0.61
13:o:5206:GLU:O	13:o:5207:GLU:CB	2.49	0.61
16:v:5066:CYS:O	16:v:5073:LYS:CG	2.49	0.61
1:A:340:PRO:HD3	15:U:103:TYR:CE2	2.36	0.61
22:A:1003:CLA:CED	22:A:1003:CLA:C2A	2.64	0.61
24:A:1043:PQ9:H37	24:A:1043:PQ9:C30	2.29	0.61
2:B:17:GLY:HA2	2:B:123:PHE:CE1	2.35	0.61
2:B:99:ALA:HB1	22:B:1014:CLA:H43	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:463:PHE:HE1	22:B:1016:CLA:CBB	2.12	0.61
22:B:1019:CLA:HBB2	22:B:1021:CLA:HMB3	1.82	0.61
3:C:240:ILE:HD13	3:C:240:ILE:O	2.00	0.61
3:C:363:GLY:O	3:C:367:GLU:HG2	2.00	0.61
25:C:1052:BCR:H352	25:K:1051:BCR:H322	1.82	0.61
29:C:1056:DGD:HB81	29:C:1056:DGD:HBV2	1.81	0.61
13:O:132:VAL:CG2	13:O:144:LEU:HD21	2.30	0.61
13:O:188:ARG:CB	13:O:188:ARG:HH11	2.14	0.61
16:V:151:ILE:HG12	16:V:152:LEU:N	2.15	0.61
1:a:5267:ASN:HB3	1:a:5270:SER:HG	1.64	0.61
1:a:5300:PHE:HB3	1:a:5302:PHE:CE1	2.36	0.61
2:b:5015:ASP:N	2:b:5016:PRO:HD3	2.14	0.61
2:b:5024:LEU:HD21	2:b:5110:ALA:C	2.25	0.61
22:b:6011:CLA:CGD	22:b:6011:CLA:CAA	2.77	0.61
3:c:5117:VAL:HG11	22:c:6027:CLA:C1	2.31	0.61
3:c:5135:ARG:HG2	20:z:5027:TYR:HB3	1.82	0.61
3:c:5263:ALA:HB1	3:c:5264:PHE:CE2	2.34	0.61
3:c:5451:ALA:CA	3:c:5456:GLU:HG2	2.30	0.61
22:c:6028:CLA:O2A	29:c:6056:DGD:HG11	2.01	0.61
22:c:6035:CLA:H141	25:k:6051:BCR:C34	2.30	0.61
4:d:5264:LYS:O	4:d:5268:HIS:ND1	2.34	0.61
6:f:5020:TRP:HE1	6:f:5024:HIS:CE1	2.18	0.61
1:A:185:VAL:O	1:A:188:ALA:HB3	2.00	0.61
1:A:290:ILE:CG2	1:A:291:SER:N	2.63	0.61
22:C:1031:CLA:CBC	22:C:1031:CLA:CHD	2.71	0.61
4:D:219:GLU:O	4:D:222:LEU:HB2	2.00	0.61
22:D:1005:CLA:H93	28:D:1062:MGE:H211	1.83	0.61
6:F:41:GLN:NE2	9:J:31:GLY:HA3	2.16	0.61
7:H:12:ARG:N	7:H:13:PRO:HD2	2.15	0.61
13:O:68:ARG:HG3	13:O:68:ARG:O	2.00	0.61
16:V:38:LEU:HA	16:V:95:ILE:CG2	2.26	0.61
20:Z:20:VAL:O	20:Z:24:PRO:CD	2.45	0.61
2:b:5374:ASN:HD22	2:b:5374:ASN:N	1.98	0.61
22:b:6014:CLA:CBC	22:b:6014:CLA:CHD	2.72	0.61
22:b:6023:CLA:C9	22:b:6024:CLA:H152	2.30	0.61
3:c:5159:THR:HA	3:c:5252:ILE:HA	1.81	0.61
22:c:6028:CLA:C6	29:c:6057:DGD:HA42	2.31	0.61
22:c:6028:CLA:HMC2	22:k:6034:CLA:HED1	1.81	0.61
29:c:6056:DGD:HB51	9:j:5029:PHE:HE1	1.66	0.61
13:o:5059:ASP:H	13:o:5064:TYR:HE1	1.47	0.61
29:C:1056:DGD:HB51	9:J:29:PHE:HE1	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5272:HIS:O	4:d:5215:GLY:CA	2.48	0.61
1:a:5317:TRP:HA	4:d:5063:LEU:HD11	1.83	0.61
1:a:5325:ASN:ND2	1:a:5328:MET:HE3	2.13	0.61
22:a:6007:CLA:H71	22:a:6007:CLA:H41	1.81	0.61
2:b:5468:TRP:CE3	4:d:5144:ILE:HD13	2.36	0.61
22:b:6011:CLA:CMD	22:b:6014:CLA:CMB	2.79	0.61
28:b:6060:MGE:CGB	28:b:6060:MGE:H211	2.29	0.61
3:c:5264:PHE:O	3:c:5266:TRP:CD1	2.54	0.61
22:c:6029:CLA:C1A	22:c:6029:CLA:CGA	2.78	0.61
22:c:6036:CLA:HHC	22:c:6036:CLA:CBB	2.29	0.61
4:d:5173:PHE:CD1	23:d:6039:PHO:H13	2.36	0.61
4:d:5174:GLY:HA3	4:d:5177:ALA:HB3	1.81	0.61
4:d:5223:PHE:CE1	4:d:5245:SER:HB2	2.35	0.61
1:A:12:ASN:O	1:A:15:GLU:HG3	1.99	0.61
1:A:171:GLY:O	1:A:172:MET:C	2.44	0.61
22:A:1007:CLA:H112	22:A:1007:CLA:C6	2.29	0.61
24:A:1043:PQ9:C45	28:D:1059:MGE:C9A	2.79	0.61
2:B:174:LEU:HD21	2:B:312:TYR:HE1	1.66	0.61
3:C:293:ASN:ND2	3:C:295:THR:HB	2.15	0.61
4:D:190:ASN:HD22	4:D:296:TYR:HA	1.66	0.61
4:D:313:THR:O	4:D:316:THR:HG23	2.00	0.61
25:K:1051:BCR:H353	18:Y:32:GLY:CA	2.20	0.61
16:V:39:ASN:C	16:V:41:GLU:H	2.09	0.61
2:b:5099:ALA:HB1	22:b:6014:CLA:H43	1.82	0.61
2:b:5113:TRP:CD1	2:b:5114:HIS:N	2.69	0.61
3:c:5274:TYR:O	3:c:5276:LEU:N	2.34	0.61
3:c:5327:ASN:HD21	3:c:5330:SER:C	2.08	0.61
3:c:5384:ILE:O	3:c:5384:ILE:HG23	2.00	0.61
22:c:6026:CLA:C7	22:c:6026:CLA:C12	2.76	0.61
4:d:5210:LEU:HD11	24:d:6042:PQ9:H152	1.82	0.61
28:d:6062:MGE:O1A	28:d:6062:MGE:H4B1	2.00	0.61
13:o:5148:VAL:HG23	13:o:5172:PHE:HE2	1.66	0.61
22:A:1007:CLA:H41	22:A:1007:CLA:C7	2.30	0.61
22:B:1011:CLA:CGD	22:B:1011:CLA:HAA1	2.30	0.61
22:B:1011:CLA:C1D	22:B:1013:CLA:C3	2.78	0.61
22:C:1030:CLA:CBC	22:C:1030:CLA:CHD	2.58	0.61
4:D:37:LEU:HD13	4:D:125:PHE:HA	1.81	0.61
4:D:210:LEU:HD11	24:D:1042:PQ9:H152	1.82	0.61
8:I:29:ALA:O	8:I:30:ARG:HB2	2.01	0.61
13:O:223:ILE:HD13	13:O:225:LEU:HD13	1.83	0.61
1:a:5217:SER:O	1:a:5220:THR:HG22	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5315:ASN:O	4:d:5063:LEU:HD23	2.01	0.61
1:a:5331:MET:HE1	4:d:5348:ARG:N	2.16	0.61
22:a:6007:CLA:H41	22:a:6007:CLA:C7	2.30	0.61
22:b:6009:CLA:CGA	22:b:6009:CLA:NA	2.64	0.61
22:b:6011:CLA:O2D	22:b:6012:CLA:HED1	2.00	0.61
29:b:6058:DGD:CAB	29:b:6058:DGD:HB62	2.31	0.61
4:d:5035:ILE:O	4:d:5039:PRO:HG3	2.01	0.61
4:d:5190:ASN:HD22	4:d:5296:TYR:HA	1.66	0.61
7:h:5043:LEU:HD23	7:h:5043:LEU:C	2.26	0.61
18:y:5045:ASN:C	18:y:5045:ASN:ND2	2.59	0.61
2:B:113:TRP:CD1	2:B:114:HIS:N	2.69	0.61
2:B:133:LEU:HA	7:H:15:ASN:HD21	1.65	0.61
22:B:1018:CLA:H141	22:B:1018:CLA:H172	1.82	0.61
3:C:117:VAL:HG21	22:C:1027:CLA:H162	1.81	0.61
3:C:171:GLY:HA3	22:C:1025:CLA:HBC1	1.81	0.61
22:C:1025:CLA:O2A	22:C:1025:CLA:H3A	1.99	0.61
22:C:1026:CLA:C7	22:C:1026:CLA:C12	2.76	0.61
6:F:20:TRP:HE1	6:F:24:HIS:CE1	2.18	0.61
7:H:43:LEU:HD23	7:H:43:LEU:C	2.26	0.61
9:J:15:THR:HG21	10:K:38:VAL:HG22	1.82	0.61
13:O:55:ALA:CB	13:O:161:SER:HB3	2.30	0.61
1:a:5142:TRP:HB3	3:c:5443:TRP:CZ2	2.36	0.61
1:a:5172:MET:HE2	1:a:5179:THR:CB	2.31	0.61
2:b:5124:ARG:HE	2:b:5131:PRO:HB3	1.66	0.61
22:b:6011:CLA:CMD	22:b:6014:CLA:HMB2	2.31	0.61
22:b:6019:CLA:HBB2	22:b:6021:CLA:HMB3	1.82	0.61
3:c:5089:ILE:HA	3:c:5092:ILE:HD13	1.83	0.61
3:c:5264:PHE:O	3:c:5266:TRP:NE1	2.34	0.61
3:c:5363:GLY:O	3:c:5367:GLU:HG2	2.00	0.61
22:c:6025:CLA:C4	22:c:6025:CLA:C1B	2.77	0.61
22:c:6033:CLA:HHC	22:c:6033:CLA:CBB	2.27	0.61
22:c:6033:CLA:HMA3	22:k:6034:CLA:HMC2	1.81	0.61
29:c:6057:DGD:HG31	9:j:5033:TYR:CE2	2.35	0.61
25:h:6049:BCR:H321	25:h:6049:BCR:C8	2.29	0.61
16:v:5094:ASN:HB2	16:v:5097:GLY:H	1.66	0.61
16:v:5105:PRO:HG3	16:v:5115:ALA:HA	1.83	0.61
16:v:5151:ILE:HG12	16:v:5152:LEU:N	2.15	0.61
20:z:5027:TYR:H	20:z:5027:TYR:HD2	1.49	0.61
1:A:331:MET:HE1	4:D:348:ARG:N	2.16	0.60
22:C:1028:CLA:C9	29:C:1056:DGD:HB91	2.30	0.60
4:D:78:VAL:HG12	4:D:173:PHE:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:282:SER:C	22:D:1004:CLA:CED	2.74	0.60
23:D:1039:PHO:H2A	23:D:1039:PHO:O2D	2.01	0.60
25:H:1049:BCR:C23	25:H:1049:BCR:H393	2.30	0.60
1:a:5151:LEU:HG	1:a:5155:PHE:HD2	1.65	0.60
1:a:5270:SER:O	1:a:5273:PHE:HB3	2.00	0.60
1:a:5331:MET:O	1:a:5332:HIS:C	2.44	0.60
2:b:5045:PHE:HA	2:b:5058:GLN:HE22	1.64	0.60
4:d:5058:TRP:C	4:d:5058:TRP:CD1	2.79	0.60
1:A:142:TRP:HB3	3:C:443:TRP:CZ2	2.36	0.60
1:A:151:LEU:HG	1:A:155:PHE:HD2	1.65	0.60
1:A:197:PHE:CE2	29:C:1056:DGD:HAN2	2.37	0.60
2:B:49:ASP:OD1	2:B:53:ASN:N	2.34	0.60
3:C:223:TRP:CD1	3:C:224:ILE:N	2.69	0.60
3:C:318:LEU:HD23	3:C:328:VAL:HG11	1.83	0.60
29:C:1057:DGD:HG31	9:J:33:TYR:CE2	2.35	0.60
4:D:221:THR:HG21	4:D:245:SER:O	2.01	0.60
11:L:9:PRO:HG2	12:m:5034:LYS:HG3	1.83	0.60
13:O:62:GLN:HA	13:O:62:GLN:HE21	1.66	0.60
1:a:5193:LEU:HD22	4:d:5179:PHE:CD2	2.36	0.60
1:a:5297:LEU:CD2	3:c:5404:LEU:HD23	2.29	0.60
1:a:5334:ARG:HB2	1:a:5335:ASN:OD1	2.02	0.60
2:b:5222:PRO:HB2	2:b:5225:LEU:HD13	1.82	0.60
22:b:6011:CLA:C1D	22:b:6013:CLA:C3	2.78	0.60
3:c:5075:PHE:CD1	3:c:5086:LEU:HD11	2.34	0.60
3:c:5155:ASN:CA	3:c:5158:THR:HG22	2.26	0.60
22:c:6026:CLA:CGA	22:c:6026:CLA:H42	2.31	0.60
4:d:5183:LEU:HD23	4:d:5183:LEU:N	2.14	0.60
13:o:5062:GLN:HA	13:o:5062:GLN:HE21	1.66	0.60
13:o:5083:LYS:HD2	13:o:5085:LYS:HE3	1.83	0.60
13:o:5092:VAL:HG13	13:o:5093:PRO:HD2	1.83	0.60
1:A:129:ARG:O	1:A:129:ARG:HG2	2.01	0.60
22:A:1006:CLA:HBC2	4:D:182:LEU:HD21	1.81	0.60
22:B:1011:CLA:CMD	22:B:1014:CLA:HMB2	2.31	0.60
3:C:263:ALA:HB1	3:C:264:PHE:CE2	2.34	0.60
22:C:1035:CLA:CMD	10:K:40:GLN:NE2	2.64	0.60
4:D:39:PRO:O	4:D:43:LEU:HG	2.01	0.60
8:I:4:LEU:HA	8:I:7:THR:OG1	2.00	0.60
13:O:66:ILE:HD12	13:O:121:PHE:CD1	2.36	0.60
13:O:82:PRO:HG3	13:O:89:ALA:CB	2.31	0.60
1:a:5063:ILE:HG12	1:a:5064:ARG:N	2.15	0.60
1:a:5185:VAL:O	1:a:5188:ALA:HB3	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:a:6007:CLA:CAD	22:a:6007:CLA:CED	2.80	0.60
3:c:5056:HIS:C	3:c:5056:HIS:HD2	2.07	0.60
3:c:5436:PHE:O	3:c:5439:VAL:HB	2.00	0.60
4:d:5297:ASP:CG	4:d:5298:PHE:N	2.60	0.60
1:A:140:ARG:NH1	1:A:140:ARG:CB	2.64	0.60
1:A:217:SER:O	1:A:220:THR:HG22	2.01	0.60
2:B:62:VAL:CG1	22:B:1013:CLA:HED2	2.31	0.60
22:B:1011:CLA:CMD	22:B:1014:CLA:CMB	2.79	0.60
22:B:1011:CLA:O2D	22:B:1012:CLA:HED1	2.00	0.60
29:B:1058:DGD:CAB	29:B:1058:DGD:HB62	2.31	0.60
3:C:216:SER:HB2	3:C:221:GLU:HB2	1.82	0.60
3:C:384:ILE:HG23	3:C:384:ILE:O	2.00	0.60
22:C:1028:CLA:O2A	29:C:1056:DGD:HG11	2.00	0.60
22:C:1029:CLA:CGA	22:C:1029:CLA:C1A	2.78	0.60
4:D:325:ILE:O	4:D:329:MET:HG2	2.02	0.60
6:F:41:GLN:HE21	9:J:28:PHE:HA	1.65	0.60
16:V:66:CYS:O	16:V:73:LYS:CG	2.49	0.60
1:a:5119:PHE:CD2	1:a:5123:ALA:HB2	2.36	0.60
1:a:5136:ARG:HH12	8:i:5027:ASP:HB3	1.67	0.60
1:a:5140:ARG:NH1	1:a:5140:ARG:CB	2.64	0.60
1:a:5142:TRP:HZ2	4:d:5219:GLU:HG3	1.67	0.60
1:a:5190:HIS:HE1	1:a:5296:ASN:HD22	1.50	0.60
1:a:5197:PHE:HD1	1:a:5285:PHE:HB3	1.66	0.60
2:b:5006:TYR:OH	28:l:6061:MGE:H2D	2.01	0.60
2:b:5062:VAL:CG1	22:b:6013:CLA:HED2	2.31	0.60
2:b:5174:LEU:HD21	2:b:5312:TYR:HE1	1.66	0.60
22:b:6022:CLA:H91	22:b:6022:CLA:C12	1.92	0.60
3:c:5223:TRP:CD1	3:c:5224:ILE:N	2.69	0.60
3:c:5321:ASP:O	3:c:5324:LEU:N	2.33	0.60
22:c:6035:CLA:C2B	25:k:6052:BCR:C27	2.77	0.60
29:c:6055:DGD:HB21	29:c:6055:DGD:C2A	2.30	0.60
4:d:5282:SER:C	22:d:6004:CLA:CED	2.74	0.60
6:f:5037:ILE:HA	6:f:5040:MET:HE3	1.82	0.60
14:t:5021:ILE:HD12	25:t:1046:BCR:HC42	1.84	0.60
1:A:256:GLY:HA2	1:A:264:SER:HB2	1.84	0.60
1:A:315:ASN:O	4:D:63:LEU:HD23	2.01	0.60
1:A:336:ALA:O	1:A:338:ASN:ND2	2.34	0.60
2:B:111:ALA:O	2:B:113:TRP:N	2.34	0.60
2:B:468:TRP:CE3	4:D:144:ILE:HD13	2.36	0.60
22:C:1033:CLA:HBB1	22:C:1033:CLA:CHC	2.25	0.60
4:D:313:THR:OG1	4:D:316:THR:HG22	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T:18:PHE:HD1	25:T:6046:BCR:H332	1.66	0.60
16:V:94:ASN:HB2	16:V:97:GLY:H	1.66	0.60
1:a:5151:LEU:HD21	29:c:6055:DGD:HBS2	1.83	0.60
1:a:5197:PHE:CE2	29:c:6056:DGD:HAN2	2.37	0.60
2:b:5055:MET:HE3	2:b:5080:ILE:CG2	2.32	0.60
2:b:5111:ALA:O	2:b:5113:TRP:N	2.34	0.60
2:b:5419:SER:HA	2:b:5422:ARG:HH12	1.65	0.60
22:b:6021:CLA:H2	22:b:6021:CLA:HED1	1.79	0.60
4:d:5022:LEU:O	4:d:5030:VAL:O	2.20	0.60
13:o:5082:PRO:HG3	13:o:5089:ALA:CB	2.31	0.60
1:A:172:MET:HE2	1:A:179:THR:CB	2.31	0.60
1:A:219:VAL:HG21	4:D:268:HIS:CD2	2.36	0.60
1:A:317:TRP:HA	4:D:63:LEU:HD11	1.83	0.60
2:B:124:ARG:HE	2:B:131:PRO:HB3	1.66	0.60
22:B:1022:CLA:H93	22:B:1022:CLA:C12	2.09	0.60
3:C:271:TYR:HE1	22:C:1031:CLA:HAC1	1.64	0.60
4:D:36:LEU:HD23	4:D:37:LEU:H	1.65	0.60
4:D:103:ARG:HD2	5:E:76:VAL:HG21	1.84	0.60
4:D:352:LEU:H	4:D:352:LEU:CD2	2.15	0.60
16:V:38:LEU:CA	16:V:45:ILE:HD11	2.31	0.60
1:a:5320:ILE:HG21	4:d:5180:ARG:HG3	1.84	0.60
2:b:5075:TRP:HE1	2:b:5094:GLU:HB2	1.63	0.60
2:b:5188:ASP:OD1	2:b:5191:ASN:HB2	2.02	0.60
3:c:5171:GLY:HA2	3:c:5174:LEU:CB	2.22	0.60
3:c:5431:PHE:C	3:c:5431:PHE:CD2	2.79	0.60
22:c:6025:CLA:H171	22:c:6031:CLA:H102	1.84	0.60
29:c:6055:DGD:CEB	29:c:6055:DGD:HBG3	2.25	0.60
4:d:5039:PRO:O	4:d:5043:LEU:HG	2.01	0.60
4:d:5251:ARG:HH22	4:d:5255:GLN:HE22	1.49	0.60
11:l:5022:LEU:HG	28:l:6061:MGE:H221	1.82	0.60
16:v:5039:ASN:C	16:v:5041:GLU:H	2.09	0.60
1:A:193:LEU:HD22	4:D:179:PHE:CD2	2.36	0.60
3:C:264:PHE:O	3:C:266:TRP:NE1	2.34	0.60
3:C:436:PHE:O	3:C:439:VAL:HB	2.00	0.60
4:D:22:LEU:O	4:D:30:VAL:O	2.20	0.60
4:D:148:ALA:HB2	4:D:276:VAL:HG12	1.84	0.60
4:D:273:PHE:O	4:D:274:VAL:C	2.42	0.60
6:F:37:ILE:HA	6:F:40:MET:HE3	1.82	0.60
13:O:90:GLU:OE1	13:O:90:GLU:HA	2.00	0.60
13:O:107:ILE:HG23	13:O:123:GLU:HG3	1.84	0.60
13:O:206:GLU:O	13:O:207:GLU:CB	2.48	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:U:31:ASN:ND2	15:U:32:ILE:N	2.48	0.60
15:U:52:ASN:OD1	15:U:64:ILE:HD13	2.02	0.60
20:Z:55:GLY:HA2	25:Z:1053:BCR:H313	1.82	0.60
1:a:5187:GLN:HG3	1:a:5325:ASN:ND2	2.10	0.60
2:b:5429:ILE:H	2:b:5429:ILE:CD1	2.13	0.60
22:b:6020:CLA:H8	22:b:6020:CLA:H41	1.84	0.60
4:d:5090:LEU:CD1	4:d:5096:GLU:HG3	2.31	0.60
4:d:5170:ALA:O	4:d:5171:PRO:O	2.18	0.60
4:d:5313:THR:OG1	4:d:5316:THR:HG22	2.01	0.60
13:o:5072:GLN:HA	13:o:5103:SER:OG	2.02	0.60
15:u:5068:THR:HG22	15:u:5071:GLN:N	2.10	0.60
1:A:119:PHE:CD2	1:A:123:ALA:HB2	2.37	0.60
1:A:258:LEU:O	1:A:259:ILE:HD12	2.01	0.60
2:B:91:TRP:CG	22:B:1014:CLA:HBA2	2.37	0.60
3:C:146:PHE:O	3:C:148:GLY:N	2.34	0.60
3:C:274:TYR:O	3:C:276:LEU:N	2.34	0.60
22:C:1029:CLA:C5	22:C:1029:CLA:C1C	2.79	0.60
22:C:1037:CLA:HBB1	22:C:1037:CLA:CHC	2.14	0.60
4:D:136:VAL:O	4:D:136:VAL:HG12	2.00	0.60
6:F:40:MET:HB3	6:F:43:ILE:HD11	1.82	0.60
20:Z:49:ALA:O	20:Z:53:VAL:HG23	2.01	0.60
1:a:5223:LEU:HD21	4:d:5265:ARG:CG	2.29	0.60
2:b:5049:ASP:OD1	2:b:5053:ASN:N	2.34	0.60
3:c:5058:GLY:HA2	3:c:5061:VAL:HG12	1.82	0.60
3:c:5087:ILE:HG22	3:c:5426:LEU:HD11	1.83	0.60
22:c:6033:CLA:CMA	22:k:6034:CLA:CMC	2.80	0.60
4:d:5136:VAL:HG12	4:d:5136:VAL:O	2.00	0.60
25:k:6052:BCR:H352	25:k:6051:BCR:H322	1.82	0.60
20:z:5027:TYR:HD2	20:z:5027:TYR:N	1.99	0.60
1:A:14:TRP:CD1	1:A:14:TRP:C	2.80	0.60
1:A:63:ILE:HG12	1:A:64:ARG:N	2.15	0.60
1:A:136:ARG:HH12	8:I:27:ASP:HB3	1.67	0.60
1:A:201:GLY:O	1:A:205:VAL:HG12	2.01	0.60
22:A:1007:CLA:CAD	22:A:1007:CLA:CED	2.80	0.60
23:A:1038:PHO:C9	22:D:1005:CLA:C18	2.80	0.60
2:B:46:ASP:HB3	2:B:58:GLN:OE1	2.01	0.60
2:B:374:ASN:HD22	2:B:374:ASN:N	1.98	0.60
2:B:406:LEU:O	2:B:407:ASN:O	2.20	0.60
22:B:1018:CLA:OBD	22:B:1018:CLA:C14	2.49	0.60
3:C:276:LEU:HD23	3:C:276:LEU:O	2.02	0.60
3:C:279:LEU:O	3:C:280:SER:C	2.44	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:431:PHE:C	3:C:431:PHE:CD2	2.79	0.60
24:D:1042:PQ9:H292	24:D:1042:PQ9:H243	1.84	0.60
20:Z:27:TYR:N	20:Z:27:TYR:HD2	1.99	0.60
24:a:6043:PQ9:C45	28:d:6059:MGE:C9A	2.79	0.60
2:b:5046:ASP:HB3	2:b:5058:GLN:OE1	2.01	0.60
2:b:5170:ASP:CB	2:b:5171:PRO:HD2	2.32	0.60
2:b:5285:ASN:HA	2:b:5288:VAL:HG12	1.82	0.60
22:b:6021:CLA:HED3	22:b:6021:CLA:CGA	2.32	0.60
4:d:5160:TYR:HB3	4:d:5161:PRO:HD3	1.83	0.60
7:h:5055:LEU:HB2	7:h:5058:VAL:HB	1.83	0.60
13:o:5066:ILE:HD12	13:o:5121:PHE:CD1	2.36	0.60
1:A:147:TYR:C	1:A:150:PRO:HD2	2.27	0.60
1:A:196:PRO:CA	1:A:199:GLN:HG3	2.31	0.60
1:A:213:ALA:HB3	23:D:1039:PHO:HBC1	1.84	0.60
2:B:15:ASP:CG	2:B:15:ASP:O	2.45	0.60
22:B:1020:CLA:H8	22:B:1020:CLA:H41	1.84	0.60
22:C:1029:CLA:HHC	22:C:1029:CLA:CBB	2.32	0.60
4:D:58:TRP:CD1	4:D:58:TRP:C	2.79	0.60
4:D:90:LEU:CD1	4:D:96:GLU:HG3	2.31	0.60
4:D:219:GLU:OE1	4:D:219:GLU:HA	2.01	0.60
1:a:5014:TRP:CD1	1:a:5014:TRP:C	2.80	0.60
1:a:5244:GLU:HG2	4:d:5264:LYS:NZ	2.17	0.60
22:a:6006:CLA:H91	22:d:6004:CLA:H171	1.84	0.60
22:b:6011:CLA:C4D	22:b:6013:CLA:C2	2.80	0.60
28:b:6060:MGE:H6D1	4:d:5269:PHE:CE2	2.36	0.60
22:c:6028:CLA:H61	29:c:6057:DGD:HA42	1.84	0.60
4:d:5221:THR:HG21	4:d:5245:SER:O	2.01	0.60
10:k:5029:PRO:C	22:k:6034:CLA:O1D	2.45	0.60
22:k:6034:CLA:O2A	22:k:6034:CLA:C1A	2.50	0.60
13:o:5090:GLU:HA	13:o:5090:GLU:OE1	2.00	0.60
15:u:5052:ASN:OD1	15:u:5064:ILE:HD13	2.02	0.60
20:z:5032:ASP:HB3	20:z:5035:ARG:HG2	1.83	0.60
1:A:244:GLU:HG2	4:D:264:LYS:NZ	2.17	0.59
1:A:334:ARG:HB2	1:A:335:ASN:OD1	2.02	0.59
22:A:1006:CLA:HAB	23:D:1039:PHO:C14	2.32	0.59
2:B:188:ASP:OD1	2:B:191:ASN:HB2	2.02	0.59
22:B:1009:CLA:CGA	22:B:1009:CLA:NA	2.64	0.59
3:C:89:ILE:HA	3:C:92:ILE:HD13	1.83	0.59
22:C:1026:CLA:C2B	22:C:1028:CLA:HBB2	2.32	0.59
29:C:1055:DGD:HB21	29:C:1055:DGD:C2A	2.30	0.59
4:D:304:ARG:NH1	4:D:311:PHE:CD2	2.70	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:30:LEU:O	7:H:33:VAL:HG22	2.02	0.59
10:K:29:PRO:C	22:K:1034:CLA:O1D	2.45	0.59
25:K:1051:BCR:C35	18:Y:32:GLY:HA3	2.21	0.59
14:T:11:ALA:HB3	25:T:6046:BCR:H362	1.82	0.59
1:a:5120:LEU:O	1:a:5120:LEU:HD13	2.02	0.59
1:a:5279:ARG:CB	4:d:5212:ALA:HB2	2.31	0.59
1:a:5330:VAL:HG11	4:d:5348:ARG:HG2	1.82	0.59
22:b:6018:CLA:OBD	22:b:6018:CLA:C14	2.49	0.59
3:c:5146:PHE:O	3:c:5148:GLY:N	2.34	0.59
3:c:5160:ILE:HG21	22:c:6033:CLA:H202	1.85	0.59
3:c:5353:GLY:HA3	3:c:5355:THR:HG23	1.84	0.59
3:c:5458:GLY:HA3	4:d:5224:GLN:HB2	1.84	0.59
22:c:6027:CLA:H3A	22:c:6027:CLA:O2A	2.02	0.59
22:c:6035:CLA:H91	25:k:6052:BCR:H402	1.81	0.59
4:d:5018:LEU:HD11	17:x:5037:LEU:HD13	1.83	0.59
4:d:5199:MET:HA	4:d:5202:ALA:HB3	1.83	0.59
15:u:5027:LEU:HD21	15:u:5082:PHE:HD1	1.65	0.59
20:z:5027:TYR:N	20:z:5027:TYR:CD2	2.70	0.59
20:z:5049:ALA:O	20:z:5053:VAL:HG23	2.01	0.59
2:B:264:PRO:HG3	2:B:267:LEU:HB2	1.83	0.59
2:B:392:PHE:HA	2:B:397:VAL:CG2	2.32	0.59
22:B:1018:CLA:H8	22:B:1023:CLA:CBA	2.32	0.59
3:C:72:LEU:HD13	3:C:112:PHE:HB2	1.84	0.59
3:C:118:HIS:O	3:C:121:SER:HB3	2.02	0.59
22:C:1030:CLA:HBB1	22:C:1030:CLA:CHC	2.14	0.59
22:C:1035:CLA:C2B	25:C:1052:BCR:C27	2.77	0.59
4:D:199:MET:HA	4:D:202:ALA:HB3	1.83	0.59
9:J:10:LEU:HD22	9:J:11:TRP:H	1.67	0.59
22:K:1034:CLA:C4	22:K:1034:CLA:CBA	2.81	0.59
13:O:70:CYS:HB2	13:O:105:ASP:HB2	1.84	0.59
13:O:83:LYS:HD2	13:O:85:LYS:HE3	1.83	0.59
15:U:35:PHE:HD1	15:U:46:ALA:CB	2.15	0.59
16:V:109:ASP:HB3	16:V:111:GLU:H	1.67	0.59
1:a:5256:GLY:HA2	1:a:5264:SER:HB2	1.84	0.59
2:b:5015:ASP:CG	2:b:5015:ASP:O	2.45	0.59
2:b:5334:ASP:OD2	2:b:5334:ASP:N	2.32	0.59
2:b:5465:GLY:N	22:b:6019:CLA:HAC1	2.17	0.59
22:b:6009:CLA:CMB	25:h:6049:BCR:C27	2.69	0.59
25:b:6045:BCR:H23C	25:b:6045:BCR:C38	2.06	0.59
22:c:6026:CLA:C2B	22:c:6028:CLA:HBB2	2.32	0.59
24:d:6042:PQ9:H243	24:d:6042:PQ9:H292	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i:5021:PHE:CD1	8:i:5024:LEU:HD12	2.38	0.59
25:k:6052:BCR:HC8	25:k:6052:BCR:C33	2.31	0.59
16:v:5028:GLU:OE2	16:v:5028:GLU:HA	2.02	0.59
1:A:320:ILE:HG21	4:D:180:ARG:HG3	1.84	0.59
2:B:55:MET:HE3	2:B:80:ILE:CG2	2.32	0.59
2:B:465:GLY:N	22:B:1019:CLA:HAC1	2.17	0.59
22:B:1021:CLA:HBC3	25:B:1047:BCR:H343	1.83	0.59
28:B:1060:MGE:H6D1	4:D:269:PHE:CE2	2.36	0.59
3:C:403:SER:O	3:C:406:SER:N	2.34	0.59
4:D:122:LEU:H	4:D:122:LEU:HD22	1.66	0.59
4:D:156:VAL:O	4:D:156:VAL:HG12	2.02	0.59
4:D:173:PHE:CD1	23:D:1039:PHO:H13	2.36	0.59
23:a:6038:PHO:C9	22:d:6005:CLA:C18	2.80	0.59
3:c:5155:ASN:O	3:c:5158:THR:HG22	2.02	0.59
4:d:5039:PRO:HB2	22:d:6008:CLA:CBB	2.32	0.59
4:d:5122:LEU:H	4:d:5122:LEU:HD22	1.66	0.59
4:d:5156:VAL:O	4:d:5156:VAL:HG12	2.02	0.59
16:v:5109:ASP:HB3	16:v:5111:GLU:H	1.67	0.59
22:A:1006:CLA:H91	22:D:1004:CLA:H171	1.84	0.59
2:B:222:PRO:HB2	2:B:225:LEU:HD12	1.84	0.59
22:B:1009:CLA:C3D	22:B:1010:CLA:HBB2	2.26	0.59
3:C:97:TRP:O	3:C:99:VAL:HG23	2.02	0.59
3:C:140:LEU:HD21	3:C:146:PHE:CE1	2.29	0.59
3:C:269:GLU:OE1	3:C:447:ARG:HD2	2.02	0.59
22:C:1030:CLA:CED	22:C:1030:CLA:CHA	2.81	0.59
4:D:39:PRO:HB2	22:D:1008:CLA:CBB	2.32	0.59
25:D:1050:BCR:C21	28:D:1059:MGE:H3A1	2.32	0.59
13:O:144:LEU:HD13	13:O:259:VAL:HG11	1.84	0.59
16:V:62:ALA:O	16:V:63:CYS:CB	2.48	0.59
20:Z:32:ASP:HB3	20:Z:35:ARG:HG2	1.84	0.59
1:a:5225:ARG:HA	2:b:5481:GLY:HA3	1.83	0.59
1:a:5258:LEU:O	1:a:5259:ILE:HD12	2.01	0.59
2:b:5097:ALA:C	2:b:5099:ALA:H	2.10	0.59
2:b:5113:TRP:O	2:b:5115:TRP:N	2.36	0.59
2:b:5222:PRO:HB2	2:b:5225:LEU:HD12	1.84	0.59
2:b:5247:PHE:C	2:b:5247:PHE:CD1	2.81	0.59
22:b:6019:CLA:HMD3	28:b:6060:MGE:C1G	2.32	0.59
3:c:5072:LEU:HD13	3:c:5112:PHE:HB2	1.84	0.59
3:c:5097:TRP:O	3:c:5099:VAL:HG23	2.02	0.59
22:c:6036:CLA:HED2	22:c:6037:CLA:HBB2	1.84	0.59
4:d:5055:VAL:HG21	4:d:5110:LEU:CD2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:f:5041:GLN:NE2	9:j:5031:GLY:HA3	2.16	0.59
7:h:5030:LEU:O	7:h:5033:VAL:HG22	2.02	0.59
10:k:5035:LEU:CA	10:k:5038:VAL:HG23	2.29	0.59
11:l:5029:LEU:HB2	14:t:5009:ILE:CG2	2.29	0.59
14:t:5004:ILE:CD1	14:t:5005:THR:N	2.62	0.59
16:v:5149:PRO:HB3	16:v:5156:TRP:HD1	1.67	0.59
1:A:120:LEU:O	1:A:120:LEU:HD13	2.02	0.59
1:A:196:PRO:HB2	29:C:1057:DGD:C8A	2.26	0.59
1:A:331:MET:O	1:A:332:HIS:C	2.44	0.59
1:A:338:ASN:O	1:A:339:PHE:CD1	2.56	0.59
2:B:450:TRP:CH2	22:B:1015:CLA:H2	2.37	0.59
22:B:1023:CLA:HBC2	22:B:1023:CLA:CMC	2.33	0.59
22:B:1023:CLA:H112	22:B:1024:CLA:H8	1.84	0.59
3:C:261:ARG:HA	3:C:266:TRP:HZ2	1.67	0.59
22:C:1026:CLA:CGA	22:C:1026:CLA:H42	2.31	0.59
22:C:1029:CLA:H51	22:C:1029:CLA:NB	2.15	0.59
4:D:18:LEU:HD11	17:X:37:LEU:HD13	1.83	0.59
4:D:55:VAL:HG21	4:D:110:LEU:CD2	2.33	0.59
7:H:55:LEU:HB2	7:H:58:VAL:HB	1.84	0.59
18:Y:22:LEU:O	18:Y:25:ILE:HG12	2.02	0.59
1:a:5129:ARG:HG2	1:a:5129:ARG:O	2.01	0.59
1:a:5147:TYR:C	1:a:5150:PRO:HD2	2.27	0.59
1:a:5159:LEU:HD21	29:c:6055:DGD:C7A	2.26	0.59
2:b:5018:ARG:HB3	2:b:5115:TRP:CZ3	2.37	0.59
2:b:5091:TRP:CG	22:b:6014:CLA:HBA2	2.37	0.59
3:c:5229:ASN:N	3:c:5229:ASN:ND2	2.44	0.59
3:c:5271:TYR:HE1	22:c:6031:CLA:HAC1	1.64	0.59
3:c:5348:GLU:OE1	3:c:5373:ASN:HB3	2.02	0.59
22:c:6027:CLA:HMC1	22:c:6027:CLA:HBC3	1.84	0.59
22:c:6029:CLA:C5	22:c:6029:CLA:C1C	2.79	0.59
22:c:6033:CLA:HMA3	22:k:6034:CLA:C2C	2.30	0.59
4:d:5072:ASN:H	4:d:5075:THR:HB	1.68	0.59
4:d:5304:ARG:NH1	4:d:5311:PHE:CD2	2.70	0.59
4:d:5352:LEU:H	4:d:5352:LEU:CD2	2.15	0.59
22:h:6017:CLA:O1A	22:h:6017:CLA:H3A	2.02	0.59
13:o:5070:CYS:HB2	13:o:5105:ASP:HB2	1.84	0.59
13:o:5144:LEU:HD13	13:o:5259:VAL:HG11	1.84	0.59
18:y:5022:LEU:O	18:y:5025:ILE:HG12	2.02	0.59
1:A:225:ARG:HA	2:B:481:GLY:HA3	1.83	0.59
2:B:18:ARG:HB3	2:B:115:TRP:CZ3	2.37	0.59
2:B:353:GLU:O	2:B:373:LYS:HE3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:176:VAL:HG21	3:C:238:ILE:HG12	1.85	0.59
4:D:108:GLY:O	4:D:110:LEU:N	2.36	0.59
4:D:299:ILE:HG22	4:D:300:SER:N	2.17	0.59
22:K:1034:CLA:O2A	22:K:1034:CLA:C1A	2.50	0.59
11:L:32:SER:HA	12:M:11:THR:OG1	2.03	0.59
13:O:148:VAL:HG23	13:O:172:PHE:HE2	1.66	0.59
25:T:6046:BCR:H323	25:T:6046:BCR:C4	2.33	0.59
1:a:5275:LEU:HB2	4:d:5215:GLY:HA3	1.85	0.59
2:b:5052:LEU:HD11	2:b:5339:ALA:HA	1.85	0.59
2:b:5450:TRP:CH2	22:b:6015:CLA:H2	2.37	0.59
22:b:6021:CLA:HBC3	25:b:6047:BCR:H343	1.83	0.59
3:c:5118:HIS:O	3:c:5121:SER:HB3	2.02	0.59
3:c:5266:TRP:HE3	3:c:5271:TYR:OH	1.85	0.59
3:c:5318:LEU:HD23	3:c:5328:VAL:HG11	1.83	0.59
4:d:5219:GLU:OE1	4:d:5219:GLU:HA	2.01	0.59
4:d:5299:ILE:HG22	4:d:5300:SER:N	2.17	0.59
7:h:5028:THR:HB	7:h:5029:PRO:HD3	1.85	0.59
8:i:5013:THR:O	8:i:5014:PHE:C	2.43	0.59
1:A:192:ILE:HG12	1:A:293:MET:HE1	1.84	0.59
1:A:337:HIS:O	4:D:350:ASN:O	2.20	0.59
2:B:247:PHE:C	2:B:247:PHE:CD1	2.81	0.59
2:B:267:LEU:C	2:B:268:PHE:HD1	2.10	0.59
2:B:320:ALA:HB1	4:D:292:ASN:HD22	1.67	0.59
22:B:1009:CLA:HBA1	22:B:1009:CLA:O1D	1.99	0.59
22:B:1009:CLA:CMB	25:H:1049:BCR:C27	2.69	0.59
22:B:1022:CLA:C1	22:B:1022:CLA:CHA	2.80	0.59
3:C:155:ASN:O	3:C:158:THR:HG22	2.02	0.59
3:C:348:GLU:OE1	3:C:373:ASN:HB3	2.02	0.59
3:C:353:GLY:HA3	3:C:355:THR:HG23	1.84	0.59
4:D:29:PHE:CE2	4:D:31:GLY:N	2.71	0.59
4:D:35:ILE:O	4:D:39:PRO:HG3	2.01	0.59
6:F:41:GLN:HA	6:F:41:GLN:OE1	2.03	0.59
13:O:227:VAL:HG11	13:O:230:VAL:HG22	1.85	0.59
16:V:28:GLU:HA	16:V:28:GLU:OE2	2.02	0.59
20:Z:27:TYR:N	20:Z:27:TYR:CD2	2.70	0.59
22:a:6007:CLA:OBD	22:a:6007:CLA:CED	2.39	0.59
2:b:5267:LEU:C	2:b:5268:PHE:HD1	2.10	0.59
2:b:5406:LEU:O	2:b:5407:ASN:O	2.20	0.59
25:c:6054:BCR:C8	25:c:6054:BCR:C31	2.80	0.59
9:j:5010:LEU:HD22	9:j:5011:TRP:H	1.67	0.59
1:A:81:ALA:CB	1:A:175:GLY:HA3	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:6:TYR:OH	28:L:1061:MGE:H2D	2.01	0.59
2:B:18:ARG:NH2	2:B:115:TRP:NE1	2.51	0.59
22:B:1018:CLA:HBC3	22:B:1018:CLA:HHD	1.85	0.59
29:B:1058:DGD:O2D	4:D:87:HIS:HB2	2.02	0.59
3:C:65:GLY:HA3	3:C:119:LEU:HB2	1.85	0.59
22:C:1025:CLA:H171	22:C:1031:CLA:H102	1.83	0.59
25:C:1052:BCR:HC8	25:C:1052:BCR:C33	2.31	0.59
4:D:160:TYR:HB3	4:D:161:PRO:HD3	1.83	0.59
8:I:31:ASN:HB2	8:I:32:PRO:CD	2.31	0.59
16:V:58:LEU:O	16:V:61:TYR:N	2.36	0.59
18:Y:43:ARG:CD	18:Y:44:GLY:N	2.63	0.59
3:c:5176:VAL:HG21	3:c:5238:ILE:HG12	1.85	0.59
3:c:5276:LEU:HD23	3:c:5276:LEU:O	2.01	0.59
22:c:6025:CLA:C9	25:c:6054:BCR:H373	2.29	0.59
22:c:6030:CLA:CED	22:c:6030:CLA:CHA	2.81	0.59
4:d:5299:ILE:O	4:d:5300:SER:C	2.46	0.59
22:A:1003:CLA:HAB	22:D:1004:CLA:NB	2.18	0.59
24:A:1043:PQ9:H452	28:D:1059:MGE:C9A	2.33	0.59
22:B:1011:CLA:C2	22:B:1013:CLA:H92	2.21	0.59
22:B:1011:CLA:C4D	22:B:1013:CLA:C2	2.80	0.59
3:C:43:ILE:HG23	3:C:43:ILE:O	2.03	0.59
22:C:1028:CLA:H61	29:C:1057:DGD:HA42	1.84	0.59
22:C:1035:CLA:H91	25:C:1052:BCR:H402	1.81	0.59
6:F:15:ILE:HG13	6:F:16:PHE:CD1	2.30	0.59
10:K:28:ILE:HG13	25:K:1051:BCR:C31	2.33	0.59
13:O:72:GLN:HA	13:O:103:SER:OG	2.02	0.59
14:T:4:ILE:CD1	14:T:5:THR:N	2.61	0.59
20:Z:27:TYR:HD2	20:Z:27:TYR:H	1.49	0.59
1:a:5196:PRO:CA	1:a:5199:GLN:HG3	2.31	0.59
1:a:5201:GLY:O	1:a:5205:VAL:HG12	2.01	0.59
22:a:6003:CLA:HAB	22:d:6004:CLA:NB	2.18	0.59
4:d:5029:PHE:CE2	4:d:5031:GLY:N	2.71	0.59
4:d:5253:TRP:CA	4:d:5256:ILE:HG22	2.15	0.59
1:A:133:LEU:O	1:A:137:LEU:HB2	2.03	0.59
1:A:243:GLU:HB3	4:D:240:ALA:HB1	1.85	0.59
2:B:127:ARG:CD	2:B:128:THR:HG23	2.32	0.59
22:B:1015:CLA:H91	22:B:1015:CLA:C12	2.33	0.59
3:C:266:TRP:HE3	3:C:271:TYR:OH	1.85	0.59
3:C:430:HIS:HD1	3:C:430:HIS:H	1.51	0.59
22:C:1027:CLA:O2A	22:C:1027:CLA:H3A	2.03	0.59
25:C:1052:BCR:H341	25:K:1051:BCR:HC21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:72:ASN:O	4:D:76:VAL:HG22	2.03	0.59
4:D:198:MET:HA	22:D:1005:CLA:OBD	2.03	0.59
7:H:63:LYS:O	7:H:64:ALA:HB2	2.03	0.59
16:V:105:PRO:HG3	16:V:115:ALA:HA	1.83	0.59
16:V:149:PRO:HB3	16:V:156:TRP:HD1	1.67	0.59
3:c:5322:GLN:NE2	3:c:5381:LYS:HA	2.18	0.59
22:c:6027:CLA:H121	22:c:6027:CLA:H18	1.84	0.59
4:d:5145:ALA:HB2	4:d:5272:LEU:HD11	1.85	0.59
10:k:5028:ILE:HG13	25:k:6051:BCR:C31	2.33	0.59
11:l:5032:SER:HA	12:m:5011:THR:OG1	2.03	0.59
18:y:5043:ARG:O	18:y:5044:GLY:O	2.20	0.59
1:A:151:LEU:HD21	29:C:1055:DGD:HBS2	1.83	0.58
1:A:190:HIS:HE1	1:A:296:ASN:HD22	1.50	0.58
22:B:1021:CLA:HED3	22:B:1021:CLA:CGA	2.32	0.58
3:C:131:TYR:O	3:C:133:ALA:N	2.36	0.58
3:C:225:VAL:HG23	3:C:226:SER:N	2.19	0.58
3:C:371:GLY:O	13:O:33:TYR:HB2	2.03	0.58
3:C:458:GLY:HA3	4:D:224:GLN:HB2	1.84	0.58
3:C:458:GLY:CA	4:D:224:GLN:HB2	2.33	0.58
22:C:1025:CLA:C1	22:C:1025:CLA:C3A	2.81	0.58
22:C:1029:CLA:H51	22:C:1029:CLA:CHC	2.18	0.58
4:D:251:ARG:HH22	4:D:255:GLN:HE22	1.49	0.58
22:D:1008:CLA:CBC	22:D:1008:CLA:CMC	2.81	0.58
13:O:105:ASP:OD1	13:O:106:GLN:N	2.36	0.58
13:O:196:SER:O	13:O:198:ILE:HG22	2.03	0.58
1:a:5259:ILE:HG23	4:d:5128:ARG:NH1	2.18	0.58
22:a:6006:CLA:HAB	23:d:6039:PHO:C14	2.32	0.58
2:b:5113:TRP:C	2:b:5115:TRP:H	2.11	0.58
3:c:5167:VAL:HG12	3:c:5168:LEU:N	2.17	0.58
3:c:5269:GLU:OE1	3:c:5447:ARG:HD2	2.02	0.58
3:c:5279:LEU:O	3:c:5280:SER:C	2.44	0.58
13:o:5172:PHE:HB2	13:o:5221:GLY:CA	2.33	0.58
13:o:5194:TYR:O	13:o:5195:ASP:HB3	2.03	0.58
16:v:5058:LEU:O	16:v:5061:TYR:N	2.36	0.58
20:z:5036:SER:HA	20:z:5039:LEU:HG	1.85	0.58
1:A:137:LEU:CB	1:A:139:MET:HE3	2.33	0.58
1:A:142:TRP:HB3	3:C:443:TRP:CZ3	2.38	0.58
1:A:142:TRP:HZ2	4:D:219:GLU:HG3	1.67	0.58
1:A:149:ALA:HB1	1:A:283:VAL:HG12	1.85	0.58
2:B:59:GLY:CA	2:B:329:PRO:HB3	2.29	0.58
2:B:113:TRP:O	2:B:115:TRP:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:H:1017:CLA:O1A	22:H:1017:CLA:H3A	2.02	0.58
8:I:21:PHE:CD1	8:I:24:LEU:HD12	2.37	0.58
14:T:18:PHE:HD1	25:T:6046:BCR:C33	2.16	0.58
1:a:5149:ALA:HB1	1:a:5283:VAL:HG12	1.85	0.58
1:a:5213:ALA:HB3	23:d:6039:PHO:HBC1	1.84	0.58
23:a:6038:PHO:HED2	4:d:5213:ILE:HD13	1.86	0.58
2:b:5092:SER:O	2:b:5093:PHE:C	2.46	0.58
2:b:5264:PRO:HG3	2:b:5267:LEU:HB2	1.83	0.58
2:b:5392:PHE:HA	2:b:5397:VAL:CG2	2.32	0.58
22:b:6009:CLA:HHC	22:b:6009:CLA:CBB	2.20	0.58
22:b:6015:CLA:H91	22:b:6015:CLA:C12	2.33	0.58
29:b:6058:DGD:O2D	4:d:5087:HIS:HB2	2.02	0.58
3:c:5033:PHE:CD1	3:c:5033:PHE:N	2.71	0.58
3:c:5051:GLY:O	3:c:5055:ALA:N	2.24	0.58
22:c:6030:CLA:HMB3	22:c:6031:CLA:C1C	2.34	0.58
4:d:5108:GLY:O	4:d:5110:LEU:N	2.36	0.58
4:d:5325:ILE:O	4:d:5329:MET:HG2	2.02	0.58
10:k:5024:VAL:HG21	18:y:5025:ILE:CG2	2.26	0.58
10:k:5024:VAL:O	10:k:5027:VAL:HG23	2.03	0.58
13:o:5120:THR:HG23	13:o:5154:SER:OG	2.03	0.58
16:v:5081:ARG:HG3	16:v:5157:GLY:CA	2.33	0.58
1:A:107:TYR:C	1:A:109:GLY:H	2.12	0.58
2:B:3:LEU:HD22	11:L:8:GLN:HB2	1.84	0.58
22:B:1016:CLA:C2	22:H:1017:CLA:H91	2.31	0.58
22:B:1018:CLA:H102	22:B:1023:CLA:HBA2	1.85	0.58
22:B:1023:CLA:C3C	22:B:1024:CLA:HBC1	2.33	0.58
3:C:171:GLY:O	3:C:174:LEU:N	2.36	0.58
3:C:443:TRP:HD1	22:C:1032:CLA:HMD3	1.68	0.58
13:O:77:LEU:CD2	13:O:93:PRO:HA	2.33	0.58
13:O:144:LEU:CD1	13:O:259:VAL:HG11	2.34	0.58
18:Y:43:ARG:O	18:Y:44:GLY:O	2.21	0.58
1:a:5121:LEU:O	1:a:5123:ALA:N	2.36	0.58
1:a:5183:MET:HB3	22:a:6003:CLA:CBC	2.27	0.58
1:a:5192:ILE:HG12	1:a:5293:MET:HE1	1.84	0.58
2:b:5003:LEU:HD22	11:l:5008:GLN:HB2	1.84	0.58
2:b:5018:ARG:NH2	2:b:5115:TRP:NE1	2.51	0.58
2:b:5092:SER:O	2:b:5095:GLY:N	2.37	0.58
2:b:5246:PHE:C	2:b:5246:PHE:CD1	2.81	0.58
2:b:5320:ALA:HB1	4:d:5292:ASN:HD22	1.67	0.58
3:c:5261:ARG:HA	3:c:5266:TRP:HZ2	1.67	0.58
3:c:5458:GLY:CA	4:d:5224:GLN:HB2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6025:CLA:H143	25:c:6054:BCR:C35	2.33	0.58
13:o:5155:THR:HG22	13:o:5167:ASP:O	2.03	0.58
13:o:5223:ILE:HD13	13:o:5225:LEU:HD13	1.83	0.58
1:A:30:VAL:O	1:A:30:VAL:HG22	2.02	0.58
1:A:275:LEU:HB2	4:D:215:GLY:HA3	1.85	0.58
2:B:92:SER:O	2:B:95:GLY:N	2.36	0.58
3:C:87:ILE:HG22	3:C:426:LEU:HD11	1.83	0.58
3:C:322:GLN:NE2	3:C:381:LYS:HA	2.18	0.58
29:C:1057:DGD:HBG3	29:C:1057:DGD:CEB	2.21	0.58
4:D:87:HIS:HA	4:D:167:TRP:CD1	2.38	0.58
4:D:152:VAL:HG21	4:D:279:LEU:HD22	1.86	0.58
1:a:5137:LEU:CB	1:a:5139:MET:HE3	2.33	0.58
1:a:5256:GLY:O	1:a:5261:GLN:N	2.36	0.58
22:a:6003:CLA:CED	22:a:6003:CLA:C2A	2.64	0.58
2:b:5055:MET:CE	2:b:5080:ILE:HG21	2.33	0.58
22:c:6029:CLA:HHC	22:c:6029:CLA:CBB	2.32	0.58
22:c:6031:CLA:OBD	22:c:6033:CLA:C16	2.48	0.58
4:d:5148:ALA:HB2	4:d:5276:VAL:HG12	1.84	0.58
6:f:5015:ILE:HG13	6:f:5016:PHE:CD1	2.30	0.58
6:f:5041:GLN:OE1	6:f:5041:GLN:HA	2.03	0.58
25:k:6052:BCR:H341	25:k:6051:BCR:HC21	1.84	0.58
1:A:183:MET:HB3	22:A:1003:CLA:CBC	2.27	0.58
2:B:191:ASN:HD22	7:H:60:VAL:HG12	1.67	0.58
2:B:311:PHE:CE2	2:B:317:ASN:ND2	2.64	0.58
2:B:442:ILE:HD11	13:O:200:LEU:CD2	2.33	0.58
3:C:128:GLY:HA3	22:C:1037:CLA:CAC	2.33	0.58
3:C:289:PHE:O	3:C:289:PHE:HD2	1.87	0.58
22:C:1030:CLA:HMB3	22:C:1031:CLA:C1C	2.34	0.58
22:C:1036:CLA:HED2	22:C:1037:CLA:HBB2	1.84	0.58
4:D:33:SER:O	4:D:35:ILE:N	2.36	0.58
4:D:53:THR:HA	4:D:67:TYR:HD2	1.69	0.58
4:D:110:LEU:O	4:D:113:PHE:HB3	2.04	0.58
10:K:24:VAL:O	10:K:27:VAL:HG23	2.03	0.58
13:O:79:LYS:HE2	13:O:89:ALA:CB	2.33	0.58
13:O:172:PHE:HB2	13:O:221:GLY:CA	2.33	0.58
18:Y:39:LEU:HD21	20:Z:28:ALA:HB3	1.86	0.58
1:a:5133:LEU:O	1:a:5137:LEU:HB2	2.03	0.58
1:a:5202:VAL:HG11	22:a:6006:CLA:CAD	2.33	0.58
2:b:5284:ILE:CG2	2:b:5305:ILE:HD13	2.34	0.58
22:b:6023:CLA:H112	22:b:6024:CLA:H8	1.84	0.58
3:c:5171:GLY:C	3:c:5173:LEU:N	2.59	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5198:MET:HA	22:d:6005:CLA:OBD	2.03	0.58
22:d:6008:CLA:CBC	22:d:6008:CLA:CMC	2.82	0.58
8:i:5024:LEU:O	8:i:5026:GLY:N	2.37	0.58
15:u:5058:VAL:O	15:u:5061:VAL:HG23	2.03	0.58
1:A:213:ALA:HB2	4:D:275:PRO:HG2	1.85	0.58
3:C:121:SER:O	3:C:125:LEU:HD12	2.04	0.58
22:D:1004:CLA:C14	22:D:1004:CLA:H102	2.34	0.58
5:E:22:ILE:HG23	19:N:18:UNK:HA	1.86	0.58
5:E:57:ALA:HB3	5:E:60:GLN:CG	2.33	0.58
7:H:28:THR:HB	7:H:29:PRO:HD3	1.85	0.58
1:a:5030:VAL:O	1:a:5030:VAL:HG22	2.02	0.58
1:a:5142:TRP:HB3	3:c:5443:TRP:CZ3	2.37	0.58
22:b:6018:CLA:H8	22:b:6023:CLA:CBA	2.32	0.58
22:b:6018:CLA:HBC3	22:b:6018:CLA:HHD	1.85	0.58
3:c:5348:GLU:CD	3:c:5349:ILE:HG13	2.28	0.58
22:c:6028:CLA:C2	29:c:6056:DGD:O1A	2.46	0.58
9:j:5010:LEU:HD13	9:j:5010:LEU:N	2.14	0.58
22:k:6034:CLA:C4	22:k:6034:CLA:CBA	2.81	0.58
13:o:5107:ILE:HG23	13:o:5123:GLU:HG3	1.84	0.58
13:o:5144:LEU:CD1	13:o:5259:VAL:HG11	2.34	0.58
15:u:5061:VAL:CG1	15:u:5075:LEU:HD23	2.32	0.58
1:A:121:LEU:O	1:A:123:ALA:N	2.36	0.58
3:C:42:LEU:HD12	3:C:48:LYS:HG2	1.85	0.58
3:C:143:TYR:CD1	3:C:143:TYR:O	2.57	0.58
22:C:1025:CLA:C4	22:C:1025:CLA:C1B	2.77	0.58
22:C:1025:CLA:H143	25:C:1054:BCR:C35	2.33	0.58
25:C:1054:BCR:C8	25:C:1054:BCR:C31	2.80	0.58
4:D:189:HIS:HA	4:D:294:ARG:HD2	1.85	0.58
4:D:330:ALA:N	4:D:331:PRO:HD2	2.19	0.58
13:O:155:THR:HG22	13:O:167:ASP:O	2.03	0.58
25:T:6048:BCR:C8	25:T:6048:BCR:C33	2.81	0.58
16:V:62:ALA:O	31:V:1041:HEM:HBB1	2.04	0.58
1:a:5081:ALA:CB	1:a:5175:GLY:HA3	2.33	0.58
1:a:5114:LEU:HD22	22:a:6007:CLA:HED3	1.86	0.58
1:a:5200:LEU:HD23	29:c:6057:DGD:HBW2	1.86	0.58
1:a:5309:ALA:CB	16:v:5028:GLU:HB2	2.34	0.58
26:a:6063:LHG:H292	22:c:6032:CLA:C5	2.26	0.58
2:b:5353:GLU:O	2:b:5373:LYS:HE3	2.03	0.58
22:b:6022:CLA:C1	22:b:6022:CLA:CHA	2.80	0.58
3:c:5043:ILE:HG23	3:c:5043:ILE:O	2.03	0.58
3:c:5171:GLY:O	3:c:5174:LEU:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6025:CLA:H3A	22:c:6025:CLA:CGA	2.28	0.58
4:d:5018:LEU:HD23	4:d:5032:TRP:HH2	1.68	0.58
4:d:5072:ASN:O	4:d:5076:VAL:HG22	2.03	0.58
7:h:5063:LYS:O	7:h:5064:ALA:HB2	2.03	0.58
15:u:5035:PHE:HD1	15:u:5046:ALA:CB	2.15	0.58
16:v:5038:LEU:HB2	16:v:5045:ILE:CG1	2.34	0.58
22:B:1022:CLA:O2A	22:B:1022:CLA:CHA	2.52	0.58
3:C:33:PHE:N	3:C:33:PHE:CD1	2.71	0.58
22:D:1004:CLA:H201	28:D:1059:MGE:C8A	2.32	0.58
5:E:28:PRO:O	5:E:32:ILE:HB	2.04	0.58
15:U:59:GLU:C	15:U:61:VAL:N	2.58	0.58
20:Z:36:SER:HA	20:Z:39:LEU:HG	1.85	0.58
1:a:5243:GLU:HB3	4:d:5240:ALA:HB1	1.85	0.58
3:c:5033:PHE:CE2	3:c:5040:ALA:HB1	2.39	0.58
22:c:6025:CLA:C1	22:c:6025:CLA:C3A	2.81	0.58
22:c:6029:CLA:C1C	22:c:6029:CLA:C3	2.82	0.58
4:d:5033:SER:O	4:d:5035:ILE:N	2.36	0.58
5:e:5028:PRO:O	5:e:5032:ILE:HB	2.04	0.58
13:o:5077:LEU:CD2	13:o:5093:PRO:HA	2.33	0.58
16:v:5062:ALA:O	31:v:6041:HEM:HBB1	2.04	0.58
16:v:5109:ASP:HB3	16:v:5111:GLU:HB2	1.85	0.58
1:A:309:ALA:CB	16:V:28:GLU:HB2	2.34	0.58
23:A:1038:PHO:CHD	23:A:1038:PHO:CBC	2.81	0.58
2:B:92:SER:O	2:B:93:PHE:C	2.46	0.58
2:B:153:PHE:CD1	2:B:157:HIS:HB3	2.39	0.58
2:B:193:TYR:O	2:B:261:ALA:HB2	2.03	0.58
3:C:33:PHE:CE2	3:C:40:ALA:HB1	2.39	0.58
3:C:239:TRP:O	3:C:243:ILE:HG13	2.04	0.58
22:C:1036:CLA:HHC	22:C:1036:CLA:CBB	2.29	0.58
4:D:18:LEU:HD23	4:D:32:TRP:HH2	1.68	0.58
4:D:72:ASN:H	4:D:75:THR:HB	1.68	0.58
4:D:299:ILE:O	4:D:300:SER:C	2.46	0.58
6:F:20:TRP:NE1	6:F:24:HIS:CE1	2.72	0.58
12:M:32:GLN:CD	12:m:5034:LYS:HD2	2.29	0.58
13:O:120:THR:HG23	13:O:154:SER:OG	2.03	0.58
15:U:68:THR:HG22	15:U:71:GLN:HB2	1.85	0.58
1:a:5032:TRP:O	1:a:5035:VAL:HG12	2.04	0.58
2:b:5179:GLN:HB3	2:b:5180:PRO:HD2	1.86	0.58
2:b:5331:ASN:C	2:b:5333:GLY:H	2.12	0.58
2:b:5442:ILE:HD11	13:o:5200:LEU:CD2	2.33	0.58
3:c:5225:VAL:HG23	3:c:5226:SER:N	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5330:ALA:N	4:d:5331:PRO:HD2	2.19	0.58
5:e:5057:ALA:HB3	5:e:5060:GLN:CG	2.33	0.58
11:l:5031:PHE:O	11:l:5032:SER:C	2.47	0.58
13:o:5188:ARG:HB2	13:o:5188:ARG:HH11	1.68	0.58
18:y:5044:GLY:O	18:y:5045:ASN:CB	2.49	0.58
1:A:202:VAL:HG11	22:A:1006:CLA:CAD	2.33	0.58
1:A:325:ASN:HD22	1:A:328:MET:CE	2.14	0.58
23:A:1038:PHO:HED2	4:D:213:ILE:HD13	1.86	0.58
2:B:55:MET:CE	2:B:80:ILE:HG21	2.33	0.58
2:B:113:TRP:C	2:B:115:TRP:H	2.11	0.58
2:B:246:PHE:CD1	2:B:246:PHE:C	2.81	0.58
3:C:143:TYR:O	3:C:143:TYR:HD1	1.86	0.58
3:C:223:TRP:CD1	3:C:224:ILE:CD1	2.87	0.58
3:C:287:THR:OG1	3:C:430:HIS:HB2	2.04	0.58
22:C:1027:CLA:H121	22:C:1027:CLA:H18	1.84	0.58
4:D:145:ALA:HB2	4:D:272:LEU:HD11	1.85	0.58
4:D:222:LEU:HD21	4:D:243:THR:OG1	2.04	0.58
10:K:28:ILE:O	10:K:31:LEU:HB2	2.04	0.58
10:K:28:ILE:HA	10:K:31:LEU:HD12	1.86	0.58
13:O:172:PHE:HB2	13:O:221:GLY:HA3	1.85	0.58
13:O:194:TYR:O	13:O:195:ASP:HB3	2.03	0.58
15:U:52:ASN:O	15:U:53:ALA:O	2.22	0.58
15:U:75:LEU:HD12	15:U:75:LEU:H	1.69	0.58
16:V:81:ARG:HG3	16:V:157:GLY:CA	2.33	0.58
1:a:5078:ILE:HA	1:a:5176:ILE:HD12	1.86	0.58
22:b:6018:CLA:H102	22:b:6023:CLA:HBA2	1.85	0.58
3:c:5042:LEU:HG	22:c:6035:CLA:HMA1	1.86	0.58
3:c:5143:TYR:O	3:c:5143:TYR:HD1	1.86	0.58
3:c:5289:PHE:HD2	3:c:5289:PHE:O	1.87	0.58
3:c:5330:SER:C	13:o:5129:PHE:HE1	2.11	0.58
4:d:5189:HIS:HA	4:d:5294:ARG:HD2	1.85	0.58
22:d:6004:CLA:HBD	22:d:6004:CLA:HAA2	1.86	0.58
13:o:5105:ASP:OD1	13:o:5106:GLN:N	2.36	0.58
13:o:5172:PHE:HB2	13:o:5221:GLY:HA3	1.85	0.58
15:u:5075:LEU:HD12	15:u:5075:LEU:H	1.69	0.58
1:A:94:TYR:OH	1:A:104:GLU:HG2	2.04	0.57
1:A:197:PHE:CE1	1:A:285:PHE:HD2	2.18	0.57
2:B:74:SER:C	2:B:76:SER:H	2.12	0.57
2:B:179:GLN:HB3	2:B:180:PRO:HD2	1.86	0.57
2:B:284:ILE:CG2	2:B:305:ILE:HD13	2.34	0.57
22:B:1012:CLA:CMD	22:B:1020:CLA:C20	2.78	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:C:1027:CLA:HMC1	22:C:1027:CLA:HBC3	1.84	0.57
22:C:1028:CLA:C2	29:C:1056:DGD:O1A	2.46	0.57
22:C:1033:CLA:CMA	22:K:1034:CLA:CMC	2.80	0.57
22:D:1004:CLA:HAA2	22:D:1004:CLA:HBD	1.86	0.57
9:J:7:ARG:HG2	9:J:7:ARG:HH11	1.69	0.57
14:T:1:MET:HE2	14:T:2:GLU:HG3	1.85	0.57
1:a:5172:MET:HE2	1:a:5179:THR:HB	1.85	0.57
1:a:5213:ALA:HB2	4:d:5275:PRO:HG2	1.85	0.57
2:b:5003:LEU:HD22	11:l:5008:GLN:CB	2.34	0.57
2:b:5083:GLU:CG	2:b:5086:ILE:HD11	2.31	0.57
2:b:5096:VAL:O	2:b:5099:ALA:HB3	2.04	0.57
2:b:5153:PHE:CD1	2:b:5157:HIS:HB3	2.39	0.57
2:b:5191:ASN:HD22	7:h:5060:VAL:HG12	1.67	0.57
2:b:5229:LEU:O	2:b:5231:MET:N	2.37	0.57
3:c:5128:GLY:HA3	22:c:6037:CLA:CAC	2.33	0.57
3:c:5143:TYR:O	3:c:5143:TYR:CD1	2.57	0.57
22:c:6030:CLA:H171	22:c:6030:CLA:C14	2.21	0.57
22:c:6036:CLA:HBC2	22:c:6036:CLA:CMC	2.34	0.57
4:d:5152:VAL:HG21	4:d:5279:LEU:HD22	1.86	0.57
4:d:5214:HIS:HA	4:d:5217:THR:HG22	1.86	0.57
9:j:5015:THR:HG21	10:k:5038:VAL:CG1	2.34	0.57
12:m:5019:SER:O	12:m:5023:ILE:HG12	2.04	0.57
13:o:5196:SER:O	13:o:5198:ILE:HG22	2.03	0.57
15:u:5068:THR:HG22	15:u:5071:GLN:HB2	1.85	0.57
1:A:45:THR:HG23	1:A:46:ILE:H	1.68	0.57
1:A:78:ILE:HA	1:A:176:ILE:HD12	1.86	0.57
1:A:259:ILE:HG23	4:D:128:ARG:NH1	2.18	0.57
2:B:97:ALA:C	2:B:99:ALA:H	2.10	0.57
22:B:1016:CLA:H193	22:H:1017:CLA:C19	2.15	0.57
3:C:167:VAL:HG12	3:C:168:LEU:N	2.17	0.57
3:C:369:LEU:HD11	3:C:384:ILE:HG13	1.86	0.57
22:C:1029:CLA:C1C	22:C:1029:CLA:C3	2.82	0.57
15:U:58:VAL:O	15:U:61:VAL:HG23	2.03	0.57
17:X:43:ILE:O	17:X:43:ILE:CG2	2.52	0.57
1:a:5094:TYR:OH	1:a:5104:GLU:HG2	2.04	0.57
2:b:5251:VAL:HG13	22:b:6010:CLA:H2	1.86	0.57
22:b:6009:CLA:O1A	22:b:6009:CLA:C4D	2.53	0.57
22:b:6023:CLA:HBC2	22:b:6023:CLA:CMC	2.33	0.57
3:c:5065:GLY:HA3	3:c:5119:LEU:HB2	1.85	0.57
3:c:5369:LEU:HD11	3:c:5384:ILE:HG13	1.86	0.57
4:d:5110:LEU:O	4:d:5113:PHE:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5227:VAL:HG11	13:o:5230:VAL:HG22	1.85	0.57
16:v:5038:LEU:CB	16:v:5045:ILE:HD11	2.33	0.57
1:A:256:GLY:O	1:A:261:GLN:N	2.36	0.57
1:A:279:ARG:HG2	4:D:212:ALA:HB2	1.86	0.57
2:B:226:TYR:HA	2:B:231:MET:SD	2.45	0.57
2:B:229:LEU:O	2:B:231:MET:N	2.37	0.57
22:B:1009:CLA:O1A	22:B:1009:CLA:C4D	2.53	0.57
22:C:1031:CLA:CAD	22:C:1033:CLA:H161	2.34	0.57
4:D:266:TRP:CD1	28:D:1062:MGE:H2D	2.39	0.57
12:M:19:SER:O	12:M:23:ILE:HG12	2.04	0.57
12:M:34:LYS:HA	12:m:5032:GLN:HE22	1.69	0.57
15:U:61:VAL:CG1	15:U:75:LEU:HD23	2.32	0.57
15:U:69:GLU:HA	15:U:72:LYS:HE3	1.86	0.57
16:V:38:LEU:CA	16:V:95:ILE:HG22	2.28	0.57
25:Z:1053:BCR:C38	25:Z:1053:BCR:C23	2.59	0.57
1:a:5104:GLU:OE1	13:o:5099:ARG:HD2	2.04	0.57
24:a:6043:PQ9:H452	28:d:6059:MGE:C9A	2.33	0.57
2:b:5020:ILE:O	2:b:5024:LEU:HB2	2.04	0.57
2:b:5122:LEU:HD23	7:h:5008:GLY:HA2	1.87	0.57
22:b:6012:CLA:CMD	22:b:6020:CLA:C20	2.78	0.57
22:b:6016:CLA:H162	22:d:6008:CLA:HMA3	1.70	0.57
22:b:6016:CLA:HAB	4:d:5123:ILE:HG23	1.86	0.57
3:c:5131:TYR:O	3:c:5133:ALA:N	2.36	0.57
3:c:5223:TRP:CD1	3:c:5224:ILE:CD1	2.87	0.57
3:c:5287:THR:OG1	3:c:5430:HIS:HB2	2.04	0.57
3:c:5465:PRO:HG2	8:i:5032:PRO:HB3	1.87	0.57
22:c:6032:CLA:H2	22:k:6034:CLA:HMB1	1.87	0.57
4:d:5103:ARG:HD2	5:e:5076:VAL:HG21	1.84	0.57
4:d:5110:LEU:HD12	4:d:5110:LEU:H	1.70	0.57
6:f:5020:TRP:NE1	6:f:5024:HIS:CE1	2.72	0.57
14:t:5001:MET:HE2	14:t:5002:GLU:HG3	1.85	0.57
18:y:5043:ARG:HD2	18:y:5044:GLY:N	2.19	0.57
1:A:32:TRP:O	1:A:35:VAL:HG12	2.04	0.57
1:A:114:LEU:HD22	22:A:1007:CLA:HED3	1.86	0.57
1:A:172:MET:HE2	1:A:179:THR:HB	1.85	0.57
1:A:192:ILE:CD1	1:A:198:HIS:HB2	2.34	0.57
2:B:52:LEU:HD11	2:B:339:ALA:HA	1.85	0.57
2:B:331:ASN:C	2:B:333:GLY:H	2.12	0.57
22:B:1010:CLA:HBD	22:B:1010:CLA:H11	1.81	0.57
22:B:1012:CLA:HAA1	22:B:1012:CLA:HBD	1.86	0.57
3:C:330:SER:C	13:O:129:PHE:HE1	2.11	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:89:LEU:HB2	4:D:91:LEU:CD1	2.35	0.57
4:D:193:LEU:O	4:D:193:LEU:HD23	2.04	0.57
4:D:297:ASP:CG	4:D:298:PHE:N	2.59	0.57
31:F:1040:HEM:HMB2	31:F:1040:HEM:CBB	2.32	0.57
16:V:109:ASP:HB3	16:V:111:GLU:HB2	1.85	0.57
1:a:5167:SER:C	1:a:5169:SER:N	2.61	0.57
1:a:5336:ALA:O	1:a:5338:ASN:N	2.36	0.57
22:b:6010:CLA:HED3	22:b:6011:CLA:HMA2	1.86	0.57
22:b:6019:CLA:HHC	22:b:6019:CLA:CBB	2.34	0.57
3:c:5350:ILE:HG21	3:c:5359:TRP:CB	2.28	0.57
4:d:5087:HIS:HA	4:d:5167:TRP:CD1	2.38	0.57
10:k:5033:PHE:HE1	10:k:5037:PHE:CE2	2.22	0.57
15:u:5052:ASN:O	15:u:5053:ALA:O	2.22	0.57
1:A:184:ILE:CG1	4:D:186:GLN:NE2	2.66	0.57
2:B:9:HIS:CG	22:B:1020:CLA:HBB2	2.40	0.57
2:B:20:ILE:O	2:B:24:LEU:HB2	2.05	0.57
3:C:278:ALA:O	3:C:282:MET:HB2	2.03	0.57
3:C:348:GLU:CD	3:C:349:ILE:HG13	2.28	0.57
3:C:465:PRO:HG2	8:I:32:PRO:HB3	1.87	0.57
22:C:1029:CLA:HMA2	22:C:1029:CLA:CBA	2.25	0.57
22:C:1029:CLA:CHA	22:C:1029:CLA:CGA	2.83	0.57
22:C:1032:CLA:H2	22:K:1034:CLA:CMB	2.35	0.57
4:D:110:LEU:H	4:D:110:LEU:HD12	1.70	0.57
14:T:11:ALA:O	14:T:12:CYS:C	2.46	0.57
2:b:5144:PHE:O	2:b:5148:LEU:HB2	2.04	0.57
22:b:6012:CLA:HBD	22:b:6012:CLA:HAA1	1.86	0.57
22:b:6014:CLA:C4	22:b:6014:CLA:H71	2.34	0.57
22:b:6023:CLA:C3C	22:b:6024:CLA:HBC1	2.33	0.57
3:c:5278:ALA:O	3:c:5282:MET:HB2	2.03	0.57
3:c:5430:HIS:H	3:c:5430:HIS:HD1	1.51	0.57
3:c:5443:TRP:CD1	22:c:6032:CLA:HMD3	2.40	0.57
3:c:5457:LYS:HZ1	4:d:5228:GLY:HA2	1.68	0.57
4:d:5089:LEU:HB2	4:d:5091:LEU:CD1	2.35	0.57
4:d:5193:LEU:O	4:d:5193:LEU:HD23	2.04	0.57
9:j:5007:ARG:HG2	9:j:5007:ARG:HH11	1.69	0.57
13:o:5041:LEU:HD22	13:o:5044:LYS:HD2	1.86	0.57
13:o:5055:ALA:CB	13:o:5161:SER:HB3	2.30	0.57
25:t:1046:BCR:H323	25:t:1046:BCR:C4	2.33	0.57
18:y:5039:LEU:CD2	20:z:5028:ALA:CB	2.83	0.57
22:B:1023:CLA:CED	22:B:1024:CLA:HBB2	2.32	0.57
5:E:20:TRP:HZ2	9:J:13:VAL:CG2	2.14	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:O:184:ASP:O	13:O:185:PRO:C	2.47	0.57
16:V:38:LEU:CB	16:V:45:ILE:HD11	2.33	0.57
16:V:94:ASN:C	16:V:96:GLU:H	2.12	0.57
22:c:6031:CLA:CAD	22:c:6033:CLA:H122	2.32	0.57
4:d:5017:ILE:HD12	17:x:5041:SER:OG	2.04	0.57
4:d:5055:VAL:HG22	4:d:5105:CYS:SG	2.45	0.57
4:d:5109:GLY:C	4:d:5111:TRP:N	2.62	0.57
23:d:6039:PHO:O2A	23:d:6039:PHO:C4	2.53	0.57
13:o:5079:LYS:HE2	13:o:5089:ALA:CB	2.33	0.57
13:o:5132:VAL:CG2	13:o:5144:LEU:HD21	2.30	0.57
15:u:5069:GLU:HA	15:u:5072:LYS:HE3	1.87	0.57
16:v:5094:ASN:C	16:v:5096:GLU:H	2.12	0.57
1:A:288:LEU:HD22	3:C:432:VAL:HG23	1.87	0.57
2:B:144:PHE:O	2:B:148:LEU:HB2	2.04	0.57
2:B:402:TYR:N	2:B:402:TYR:CD1	2.73	0.57
25:B:1047:BCR:H403	25:B:1047:BCR:C22	2.34	0.57
3:C:160:ILE:HG21	22:C:1033:CLA:H202	1.85	0.57
3:C:299:SER:O	3:C:302:TYR:O	2.23	0.57
22:C:1026:CLA:C1B	22:C:1028:CLA:HBB2	2.35	0.57
23:D:1039:PHO:O2A	23:D:1039:PHO:C4	2.53	0.57
18:Y:39:LEU:CD2	20:Z:28:ALA:CB	2.83	0.57
20:Z:58:ASN:C	20:Z:60:PHE:H	2.13	0.57
2:b:5327:THR:HG23	11:l:5037:ASN:HD22	1.69	0.57
3:c:5121:SER:O	3:c:5125:LEU:HD12	2.04	0.57
22:c:6037:CLA:CBC	22:c:6037:CLA:CHD	2.76	0.57
4:d:5029:PHE:HE2	4:d:5031:GLY:HA3	1.69	0.57
4:d:5188:PHE:HE2	4:d:5326:ARG:HA	1.70	0.57
22:d:6004:CLA:C14	22:d:6004:CLA:H102	2.34	0.57
22:k:6034:CLA:H102	22:k:6034:CLA:C14	2.13	0.57
16:v:5038:LEU:HD12	16:v:5095:ILE:CG2	2.35	0.57
20:z:5053:VAL:C	20:z:5055:GLY:N	2.57	0.57
1:A:259:ILE:HG23	4:D:128:ARG:HH12	1.70	0.57
3:C:49:LEU:HG	22:C:1035:CLA:HMA2	1.87	0.57
4:D:188:PHE:HE2	4:D:326:ARG:HA	1.70	0.57
9:J:10:LEU:O	9:J:13:VAL:HG12	2.05	0.57
11:L:29:LEU:HB2	14:T:9:ILE:CG2	2.29	0.57
13:O:44:LYS:HA	13:O:72:GLN:CD	2.30	0.57
16:V:38:LEU:HD12	16:V:95:ILE:CG2	2.35	0.57
16:V:117:VAL:O	16:V:117:VAL:HG12	2.05	0.57
20:Z:53:VAL:C	20:Z:55:GLY:N	2.57	0.57
2:b:5193:TYR:O	2:b:5261:ALA:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5258:TYR:CE2	29:b:6058:DGD:HG32	2.40	0.57
22:b:6011:CLA:CMD	22:b:6014:CLA:CAB	2.83	0.57
3:c:5040:ALA:O	3:c:5043:ILE:HG22	2.05	0.57
3:c:5371:GLY:O	13:o:5033:TYR:HB2	2.04	0.57
22:c:6025:CLA:HMB2	25:c:6054:BCR:C24	2.35	0.57
4:d:5251:ARG:HB3	4:d:5251:ARG:NH1	2.20	0.57
6:f:5041:GLN:HE21	9:j:5028:PHE:HA	1.65	0.57
18:y:5039:LEU:HD21	20:z:5028:ALA:HB3	1.86	0.57
20:z:5055:GLY:HA2	25:z:6053:BCR:H313	1.82	0.57
20:z:5058:ASN:C	20:z:5060:PHE:H	2.13	0.57
2:B:170:ASP:CB	2:B:171:PRO:HD2	2.32	0.57
22:B:1010:CLA:HMD3	22:B:1011:CLA:H92	1.87	0.57
29:C:1056:DGD:HBF1	29:C:1056:DGD:CAB	2.30	0.57
4:D:17:ILE:HD12	17:X:41:SER:OG	2.04	0.57
4:D:66:SER:HB3	4:D:69:GLU:HG3	1.87	0.57
8:I:24:LEU:O	8:I:26:GLY:N	2.37	0.57
18:Y:45:ASN:C	18:Y:45:ASN:ND2	2.59	0.57
1:a:5063:ILE:HD13	1:a:5063:ILE:H	1.69	0.57
2:b:5418:LYS:O	2:b:5419:SER:C	2.48	0.57
4:d:5266:TRP:CD1	28:d:6062:MGE:H2D	2.39	0.57
4:d:5326:ARG:HH11	4:d:5326:ARG:HG3	1.70	0.57
24:d:6042:PQ9:H241	24:d:6042:PQ9:C28	2.35	0.57
5:e:5020:TRP:HZ2	9:j:5013:VAL:CG2	2.14	0.57
10:k:5028:ILE:HA	10:k:5031:LEU:HD12	1.86	0.57
16:v:5134:THR:H	16:v:5137:ASP:HB2	1.70	0.57
1:A:279:ARG:CB	4:D:212:ALA:HB2	2.31	0.57
2:B:3:LEU:HD22	11:L:8:GLN:CB	2.34	0.57
3:C:75:PHE:CZ	3:C:105:VAL:HG11	2.37	0.57
3:C:307:PRO:HB3	3:C:358:PHE:HB3	1.87	0.57
4:D:281:MET:HE2	4:D:281:MET:N	2.20	0.57
5:E:23:HIS:O	5:E:24:SER:C	2.47	0.57
1:a:5192:ILE:CD1	1:a:5198:HIS:HB2	2.34	0.57
2:b:5226:TYR:HA	2:b:5231:MET:SD	2.44	0.57
2:b:5332:LYS:HG2	2:b:5439:SER:HA	1.87	0.57
2:b:5402:TYR:N	2:b:5402:TYR:CD1	2.73	0.57
3:c:5266:TRP:CD1	3:c:5266:TRP:N	2.73	0.57
3:c:5334:PRO:CA	13:o:5179:THR:OG1	2.53	0.57
3:c:5377:LEU:HD13	3:c:5377:LEU:O	2.05	0.57
4:d:5222:LEU:HD21	4:d:5243:THR:OG1	2.04	0.57
10:k:5028:ILE:O	10:k:5031:LEU:HB2	2.04	0.57
16:v:5038:LEU:HD12	16:v:5095:ILE:HG21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:63:ILE:HD13	1:A:63:ILE:H	1.69	0.56
1:A:104:GLU:OE1	13:O:99:ARG:HD2	2.04	0.56
1:A:336:ALA:O	1:A:337:HIS:C	2.48	0.56
2:B:251:VAL:HG13	22:B:1010:CLA:H2	1.86	0.56
2:B:258:TYR:CE2	29:B:1058:DGD:HG32	2.40	0.56
2:B:390:TYR:N	2:B:390:TYR:CD1	2.73	0.56
3:C:155:ASN:HA	3:C:158:THR:CG2	2.29	0.56
22:C:1025:CLA:HMB2	25:C:1054:BCR:C24	2.35	0.56
24:D:1042:PQ9:H241	24:D:1042:PQ9:C28	2.35	0.56
6:F:40:MET:C	6:F:42:PHE:H	2.13	0.56
6:F:45:ARG:HE	6:F:45:ARG:CA	1.97	0.56
13:O:172:PHE:CZ	13:O:223:ILE:HG23	2.40	0.56
15:U:78:ASN:HB3	15:U:82:PHE:CE2	2.40	0.56
16:V:38:LEU:HB2	16:V:45:ILE:CG1	2.34	0.56
2:b:5074:SER:C	2:b:5076:SER:H	2.12	0.56
22:b:6019:CLA:H91	28:b:6060:MGE:H112	1.87	0.56
22:b:6022:CLA:O2A	22:b:6022:CLA:CHA	2.52	0.56
22:c:6029:CLA:CHA	22:c:6029:CLA:CGA	2.83	0.56
22:c:6031:CLA:CAD	22:c:6033:CLA:H161	2.34	0.56
4:d:5185:PHE:CE1	4:d:5289:LEU:HD13	2.40	0.56
4:d:5274:VAL:CB	4:d:5275:PRO:HD3	2.30	0.56
5:e:5022:ILE:HG23	19:n:5018:UNK:HA	1.86	0.56
8:i:5010:ILE:HD13	8:i:5010:ILE:H	1.70	0.56
13:o:5168:PHE:N	13:o:5225:LEU:O	2.37	0.56
13:o:5184:ASP:O	13:o:5185:PRO:C	2.47	0.56
15:u:5043:PRO:CB	16:v:5109:ASP:HB2	2.35	0.56
1:A:29:TYR:CG	1:A:133:LEU:HD13	2.40	0.56
1:A:200:LEU:HD23	29:C:1057:DGD:HBW2	1.86	0.56
2:B:327:THR:HG23	11:L:37:ASN:HD22	1.69	0.56
22:B:1019:CLA:H91	28:B:1060:MGE:H112	1.86	0.56
22:B:1023:CLA:ND	22:B:1024:CLA:CMC	2.69	0.56
3:C:40:ALA:O	3:C:43:ILE:HG22	2.05	0.56
4:D:326:ARG:HH11	4:D:326:ARG:HG3	1.70	0.56
11:L:4:ASN:HD21	11:L:6:ASN:HD22	1.53	0.56
20:Z:10:ALA:O	20:Z:14:ILE:HG13	2.05	0.56
20:Z:44:SER:O	20:Z:48:ILE:HD13	2.05	0.56
1:a:5111:PRO:O	1:a:5112:TYR:C	2.48	0.56
1:a:5167:SER:C	1:a:5169:SER:H	2.13	0.56
1:a:5219:VAL:HB	4:d:5268:HIS:HB3	1.86	0.56
23:a:6038:PHO:CHD	23:a:6038:PHO:CBC	2.81	0.56
2:b:5009:HIS:CG	22:b:6020:CLA:HBB2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5153:PHE:HB2	22:b:6014:CLA:HMC3	1.87	0.56
2:b:5390:TYR:N	2:b:5390:TYR:CD1	2.73	0.56
22:b:6016:CLA:C2	22:h:6017:CLA:H91	2.31	0.56
3:c:5443:TRP:HD1	22:c:6032:CLA:HMD3	1.68	0.56
22:c:6026:CLA:C1B	22:c:6028:CLA:HBB2	2.35	0.56
13:o:5044:LYS:HA	13:o:5072:GLN:CD	2.30	0.56
13:o:5172:PHE:CZ	13:o:5223:ILE:HG23	2.40	0.56
15:u:5028:ASN:HD22	15:u:5054:PRO:CB	2.18	0.56
18:y:5043:ARG:CG	18:y:5044:GLY:N	2.66	0.56
20:z:5050:LEU:O	20:z:5054:VAL:HG23	2.05	0.56
1:A:119:PHE:CE2	1:A:123:ALA:HB2	2.40	0.56
1:A:123:ALA:O	1:A:126:TYR:HB3	2.06	0.56
1:A:128:GLY:C	1:A:130:GLN:H	2.13	0.56
2:B:389:LYS:HB3	2:B:390:TYR:CD1	2.40	0.56
22:B:1010:CLA:HED3	22:B:1011:CLA:HMA2	1.86	0.56
22:B:1016:CLA:O1D	22:B:1016:CLA:H2A	2.06	0.56
3:C:33:PHE:N	3:C:33:PHE:HD1	2.04	0.56
3:C:135:ARG:HB2	20:Z:27:TYR:CD1	2.41	0.56
3:C:156:LYS:O	3:C:160:ILE:HD13	2.06	0.56
3:C:443:TRP:CD1	22:C:1032:CLA:HMD3	2.40	0.56
22:C:1029:CLA:CHC	22:C:1029:CLA:HBB1	2.35	0.56
22:C:1031:CLA:HAA2	22:C:1031:CLA:HBD	1.88	0.56
4:D:185:PHE:CE1	4:D:289:LEU:HD13	2.40	0.56
4:D:186:GLN:N	22:D:1004:CLA:HBC1	2.21	0.56
4:D:251:ARG:HB3	4:D:251:ARG:NH1	2.20	0.56
5:E:27:ILE:CB	5:E:28:PRO:HD3	2.35	0.56
6:F:37:ILE:HA	6:F:40:MET:CE	2.36	0.56
7:H:30:LEU:HD12	7:H:33:VAL:CG2	2.35	0.56
7:H:50:ASN:ND2	7:H:50:ASN:O	2.39	0.56
25:H:1049:BCR:H401	17:X:20:PHE:CZ	2.41	0.56
8:I:10:ILE:H	8:I:10:ILE:HD13	1.70	0.56
22:K:1034:CLA:O1D	22:K:1034:CLA:CAA	2.30	0.56
11:L:31:PHE:O	11:L:32:SER:C	2.47	0.56
12:M:34:LYS:HG3	11:l:5009:PRO:HG2	1.85	0.56
13:O:39:THR:OG1	13:O:41:LEU:HB2	2.05	0.56
13:O:73:PRO:HA	13:O:263:GLY:HA3	1.87	0.56
13:O:82:PRO:HG2	13:O:89:ALA:HB2	1.86	0.56
1:a:5029:TYR:CG	1:a:5133:LEU:HD13	2.40	0.56
2:b:5103:LEU:HD21	22:b:6013:CLA:CMC	2.35	0.56
3:c:5036:TRP:CE3	3:c:5037:ALA:HB2	2.41	0.56
3:c:5127:PHE:O	3:c:5127:PHE:HD2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5245:ILE:O	3:c:5249:ILE:HD13	2.05	0.56
3:c:5299:SER:O	3:c:5302:TYR:O	2.23	0.56
3:c:5334:PRO:HA	13:o:5179:THR:HB	1.88	0.56
4:d:5186:GLN:N	22:d:6004:CLA:HBC1	2.21	0.56
4:d:5281:MET:HE2	4:d:5281:MET:N	2.20	0.56
25:d:6050:BCR:C17	28:d:6059:MGE:H102	2.35	0.56
5:e:5052:PRO:HG2	9:j:5036:LEU:HD11	1.88	0.56
5:e:5074:GLN:O	5:e:5075:GLN:C	2.48	0.56
6:f:5040:MET:C	6:f:5042:PHE:H	2.13	0.56
8:i:5031:ASN:HB2	8:i:5032:PRO:CD	2.31	0.56
13:o:5082:PRO:HG2	13:o:5089:ALA:HB2	1.86	0.56
13:o:5221:GLY:O	13:o:5222:GLN:HB2	2.06	0.56
16:v:5102:MET:SD	16:v:5138:LEU:HD22	2.45	0.56
20:z:5044:SER:O	20:z:5048:ILE:HD13	2.05	0.56
1:A:94:TYR:HE2	13:O:99:ARG:NE	2.04	0.56
2:B:5:TRP:CE2	28:L:1061:MGE:H2A2	2.40	0.56
22:B:1011:CLA:CMD	22:B:1014:CLA:CAB	2.83	0.56
3:C:142:GLU:C	3:C:144:SER:N	2.63	0.56
3:C:266:TRP:CD1	3:C:266:TRP:N	2.73	0.56
22:C:1026:CLA:HAA1	22:C:1026:CLA:HBD	1.87	0.56
4:D:29:PHE:HE2	4:D:31:GLY:HA3	1.69	0.56
4:D:261:PHE:CE1	4:D:267:LEU:HG	2.41	0.56
22:D:1004:CLA:HHC	22:D:1004:CLA:CBB	2.21	0.56
10:K:20:PRO:HB3	18:Y:21:GLN:HA	1.87	0.56
13:O:69:LEU:HG	13:O:107:ILE:HD12	1.87	0.56
13:O:231:ASP:OD1	13:O:234:THR:HG23	2.06	0.56
13:O:241:PHE:CD1	13:O:241:PHE:C	2.84	0.56
16:V:45:ILE:H	16:V:45:ILE:CD1	2.06	0.56
20:Z:5:PHE:CD1	20:Z:57:LEU:HB3	2.41	0.56
1:a:5111:PRO:HG2	1:a:5112:TYR:H	1.71	0.56
22:a:6007:CLA:H142	8:i:5013:THR:CG2	2.36	0.56
2:b:5127:ARG:CD	2:b:5128:THR:HG23	2.31	0.56
2:b:5238:LEU:N	22:b:6020:CLA:HMD3	2.21	0.56
29:b:6058:DGD:C6D	29:b:6058:DGD:HE5	2.35	0.56
3:c:5332:GLN:HE22	13:o:5175:PRO:HG3	1.71	0.56
22:c:6029:CLA:H12	25:c:6054:BCR:H323	1.87	0.56
5:e:5023:HIS:O	5:e:5024:SER:C	2.47	0.56
13:o:5241:PHE:CD1	13:o:5241:PHE:C	2.84	0.56
16:v:5117:VAL:O	16:v:5117:VAL:HG12	2.05	0.56
1:A:140:ARG:HH21	26:A:1063:LHG:C3	2.19	0.56
1:A:167:SER:C	1:A:169:SER:N	2.60	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:96:VAL:O	2:B:99:ALA:HB3	2.04	0.56
2:B:238:LEU:N	22:B:1020:CLA:HMD3	2.21	0.56
2:B:267:LEU:C	2:B:268:PHE:CD1	2.84	0.56
2:B:317:ASN:HA	2:B:330:MET:CE	2.36	0.56
22:B:1011:CLA:H202	7:H:38:PHE:CE2	2.41	0.56
3:C:48:LYS:HD2	22:C:1035:CLA:CED	2.33	0.56
3:C:245:ILE:O	3:C:249:ILE:HD13	2.05	0.56
3:C:350:ILE:HG21	3:C:359:TRP:CB	2.28	0.56
3:C:377:LEU:HD13	3:C:377:LEU:O	2.05	0.56
22:C:1029:CLA:H12	25:C:1054:BCR:H323	1.87	0.56
22:D:1005:CLA:C12	22:D:1005:CLA:H92	2.28	0.56
7:H:38:PHE:HB2	25:H:1049:BCR:C10	2.34	0.56
16:V:102:MET:SD	16:V:138:LEU:HD22	2.45	0.56
1:a:5123:ALA:O	1:a:5126:TYR:HB3	2.06	0.56
1:a:5197:PHE:CE1	1:a:5285:PHE:HD2	2.18	0.56
26:a:6063:LHG:H321	22:k:6034:CLA:H172	1.88	0.56
22:b:6024:CLA:HAA2	22:b:6024:CLA:HBD	1.88	0.56
22:d:6008:CLA:C18	22:d:6008:CLA:H141	2.19	0.56
5:e:5027:ILE:CB	5:e:5028:PRO:HD3	2.35	0.56
5:e:5056:TYR:C	5:e:5057:ALA:O	2.48	0.56
7:h:5038:PHE:O	7:h:5039:LEU:C	2.49	0.56
10:k:5021:LEU:HD21	18:y:5024:MET:HG2	1.86	0.56
18:y:5025:ILE:CG1	18:y:5026:ALA:N	2.69	0.56
1:A:26:ASN:O	1:A:27:ARG:C	2.48	0.56
1:A:142:TRP:HH2	26:A:1063:LHG:HC5	1.71	0.56
1:A:199:GLN:NE2	22:A:1006:CLA:O1D	2.39	0.56
3:C:286:ALA:O	3:C:289:PHE:N	2.34	0.56
3:C:334:PRO:CA	13:O:179:THR:OG1	2.53	0.56
22:C:1025:CLA:H3A	22:C:1025:CLA:CGA	2.28	0.56
22:C:1026:CLA:HBB2	22:K:1034:CLA:C1	2.36	0.56
22:C:1031:CLA:OBD	22:C:1033:CLA:C16	2.48	0.56
10:K:21:LEU:HD21	18:Y:24:MET:HG2	1.86	0.56
15:U:16:LYS:HA	15:U:19:THR:HG23	1.88	0.56
16:V:87:LEU:HB2	16:V:108:TYR:OH	2.06	0.56
18:Y:43:ARG:NH2	18:Y:44:GLY:N	2.53	0.56
1:a:5026:ASN:O	1:a:5027:ARG:C	2.48	0.56
1:a:5045:THR:HG23	1:a:5046:ILE:H	1.68	0.56
22:b:6010:CLA:HBD	22:b:6010:CLA:H11	1.81	0.56
22:b:6023:CLA:ND	22:b:6024:CLA:CMC	2.69	0.56
3:c:5239:TRP:O	3:c:5243:ILE:HG13	2.04	0.56
3:c:5268:GLY:C	22:c:6033:CLA:HBC1	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5425:TRP:O	3:c:5428:THR:HG22	2.06	0.56
22:c:6026:CLA:HBD	22:c:6026:CLA:HAA1	1.87	0.56
31:f:6040:HEM:HMB2	31:f:6040:HEM:CBB	2.32	0.56
25:h:6049:BCR:H401	17:x:5020:PHE:CZ	2.41	0.56
9:j:5010:LEU:O	9:j:5013:VAL:HG12	2.05	0.56
11:l:5004:ASN:HD21	11:l:5006:ASN:HD22	1.53	0.56
20:z:5005:PHE:CD1	20:z:5057:LEU:HB3	2.41	0.56
1:A:64:ARG:NH2	13:O:98:THR:HG21	2.21	0.56
1:A:279:ARG:NH1	23:A:1038:PHO:HMC3	2.20	0.56
22:A:1007:CLA:H142	8:I:13:THR:CG2	2.36	0.56
29:B:1058:DGD:C6D	29:B:1058:DGD:HE5	2.35	0.56
4:D:55:VAL:HG22	4:D:105:CYS:SG	2.45	0.56
6:F:29:PRO:O	6:F:32:PHE:N	2.39	0.56
13:O:59:ASP:O	13:O:60:SER:CB	2.54	0.56
13:O:69:LEU:HD11	13:O:71:LEU:HD21	1.88	0.56
13:O:70:CYS:SG	13:O:105:ASP:HB3	2.46	0.56
13:O:221:GLY:O	13:O:222:GLN:HB2	2.05	0.56
1:a:5288:LEU:HD22	3:c:5432:VAL:HG23	1.87	0.56
2:b:5317:ASN:HA	2:b:5330:MET:CE	2.36	0.56
3:c:5033:PHE:N	3:c:5033:PHE:HD1	2.03	0.56
3:c:5135:ARG:HB2	20:z:5027:TYR:CD1	2.41	0.56
22:c:6026:CLA:HBB2	22:k:6034:CLA:C1	2.36	0.56
4:d:5188:PHE:HE2	4:d:5326:ARG:CG	2.17	0.56
7:h:5031:MET:HB2	22:h:6017:CLA:CAD	2.36	0.56
7:h:5041:PHE:CE1	7:h:5045:ILE:HD11	2.40	0.56
25:k:6051:BCR:H331	18:y:5028:ILE:HB	1.87	0.56
15:u:5078:ASN:HB3	15:u:5082:PHE:CE2	2.40	0.56
1:A:110:GLY:N	1:A:111:PRO:HD2	2.20	0.56
2:B:74:SER:HB3	2:B:78:TRP:CE2	2.41	0.56
22:B:1023:CLA:H41	25:B:1048:BCR:H343	1.87	0.56
3:C:147:PHE:O	3:C:156:LYS:HD2	2.06	0.56
3:C:268:GLY:C	22:C:1033:CLA:HBC1	2.30	0.56
4:D:58:TRP:CZ3	5:E:55:TYR:HB3	2.41	0.56
16:V:134:THR:H	16:V:137:ASP:HB2	1.70	0.56
16:V:159:GLY:HA2	16:V:163:TYR:CE1	2.41	0.56
18:Y:43:ARG:HD2	18:Y:44:GLY:N	2.19	0.56
1:a:5199:GLN:NE2	22:a:6006:CLA:O1D	2.39	0.56
1:a:5258:LEU:O	1:a:5259:ILE:CD1	2.54	0.56
1:a:5279:ARG:NH2	23:a:6038:PHO:CMC	2.65	0.56
2:b:5181:VAL:HB	2:b:5199:VAL:HG21	1.87	0.56
2:b:5390:TYR:N	2:b:5390:TYR:HD1	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5446:SER:O	2:b:5449:GLY:N	2.38	0.56
22:b:6011:CLA:CGA	22:b:6011:CLA:C4A	2.84	0.56
4:d:5352:LEU:CD2	4:d:5352:LEU:N	2.69	0.56
13:o:5073:PRO:HA	13:o:5263:GLY:HA3	1.87	0.56
18:y:5043:ARG:NH2	18:y:5044:GLY:N	2.53	0.56
20:z:5010:ALA:O	20:z:5014:ILE:HG13	2.05	0.56
1:A:258:LEU:O	1:A:259:ILE:CD1	2.54	0.56
1:A:323:ARG:HG3	4:D:329:MET:HA	1.88	0.56
2:B:65:PHE:HE2	22:B:1012:CLA:CMA	1.97	0.56
2:B:380:ASP:OD1	4:D:344:GLU:HG3	2.06	0.56
22:B:1016:CLA:HBD	22:B:1016:CLA:HAA1	1.86	0.56
3:C:137:PRO:C	3:C:139:THR:H	2.12	0.56
3:C:171:GLY:C	3:C:173:LEU:N	2.59	0.56
3:C:248:GLY:O	3:C:252:ILE:HB	2.06	0.56
3:C:271:TYR:CE1	22:C:1031:CLA:CAC	2.83	0.56
3:C:276:LEU:HG	22:C:1032:CLA:HBB1	1.88	0.56
22:C:1033:CLA:C14	22:C:1033:CLA:C17	2.68	0.56
13:O:168:PHE:N	13:O:225:LEU:O	2.37	0.56
16:V:38:LEU:HD12	16:V:95:ILE:HG21	1.87	0.56
1:a:5107:TYR:C	1:a:5109:GLY:H	2.12	0.56
1:a:5110:GLY:N	1:a:5111:PRO:HD2	2.20	0.56
1:a:5119:PHE:CE2	1:a:5123:ALA:HB2	2.40	0.56
2:b:5023:HIS:HD2	22:b:6020:CLA:C4A	2.19	0.56
22:b:6011:CLA:H202	7:h:5038:PHE:CE2	2.41	0.56
22:b:6023:CLA:HAA2	22:b:6023:CLA:HBD	1.88	0.56
3:c:5052:ALA:HB1	22:c:6035:CLA:HMB2	1.88	0.56
3:c:5147:PHE:O	3:c:5156:LYS:HD2	2.06	0.56
4:d:5261:PHE:CE2	4:d:5267:LEU:CA	2.89	0.56
4:d:5342:PRO:O	4:d:5345:VAL:HG23	2.06	0.56
22:d:6008:CLA:HBD	22:d:6008:CLA:HAA1	1.88	0.56
6:f:5029:PRO:O	6:f:5032:PHE:N	2.39	0.56
16:v:5056:LYS:HA	16:v:5144:HIS:CE1	2.41	0.56
16:v:5087:LEU:HB2	16:v:5108:TYR:OH	2.06	0.56
16:v:5100:ASP:O	16:v:5103:LYS:HB2	2.05	0.56
1:A:143:ILE:HG23	1:A:144:CYS:N	2.21	0.56
2:B:250:PHE:HB3	29:B:1058:DGD:C8B	2.36	0.56
2:B:446:SER:O	2:B:449:GLY:N	2.38	0.56
3:C:36:TRP:CE3	3:C:37:ALA:HB2	2.41	0.56
7:H:38:PHE:O	7:H:39:LEU:C	2.49	0.56
1:a:5131:TRP:HZ2	3:c:5449:ARG:HG2	1.71	0.56
1:a:5259:ILE:HG23	4:d:5128:ARG:HH12	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5279:ARG:HE	23:a:6038:PHO:CMC	2.18	0.56
2:b:5250:PHE:HB3	29:b:6058:DGD:C8B	2.36	0.56
22:b:6016:CLA:HAA1	22:b:6016:CLA:HBD	1.86	0.56
3:c:5177:ALA:O	3:c:5181:PHE:N	2.24	0.56
3:c:5257:PHE:N	3:c:5257:PHE:CD1	2.73	0.56
3:c:5276:LEU:HG	22:c:6032:CLA:HBB1	1.88	0.56
22:c:6032:CLA:H2	22:k:6034:CLA:CMB	2.35	0.56
25:c:6054:BCR:C23	25:c:6054:BCR:H402	2.31	0.56
4:d:5033:SER:OG	4:d:5128:ARG:CG	2.54	0.56
4:d:5140:PRO:O	4:d:5143:ALA:N	2.39	0.56
6:f:5022:ALA:C	6:f:5024:HIS:N	2.62	0.56
13:o:5069:LEU:HG	13:o:5107:ILE:HD12	1.87	0.56
13:o:5070:CYS:SG	13:o:5105:ASP:HB3	2.46	0.56
13:o:5091:PHE:CE1	13:o:5260:LYS:HE3	2.41	0.56
14:t:5022:PHE:C	14:t:5023:PHE:HD2	2.14	0.56
1:A:110:GLY:N	1:A:111:PRO:CD	2.69	0.55
1:A:111:PRO:HG2	1:A:112:TYR:H	1.71	0.55
1:A:151:LEU:HD11	1:A:155:PHE:HE2	1.71	0.55
2:B:6:TYR:HA	22:B:1019:CLA:O2A	2.06	0.55
2:B:97:ALA:O	2:B:101:ILE:HG12	2.07	0.55
2:B:103:LEU:HD21	22:B:1013:CLA:CMC	2.35	0.55
2:B:107:LEU:O	2:B:111:ALA:HB2	2.06	0.55
2:B:332:LYS:HG2	2:B:439:SER:HA	1.87	0.55
2:B:418:LYS:O	2:B:419:SER:C	2.48	0.55
3:C:199:ILE:CG2	3:C:234:VAL:HG11	2.33	0.55
4:D:261:PHE:CE2	4:D:267:LEU:CA	2.89	0.55
4:D:274:VAL:CB	4:D:275:PRO:HD3	2.30	0.55
14:T:22:PHE:C	14:T:23:PHE:HD2	2.14	0.55
15:U:31:ASN:HD22	15:U:31:ASN:C	2.14	0.55
20:Z:50:LEU:O	20:Z:54:VAL:HG23	2.05	0.55
1:a:5094:TYR:HE2	13:o:5099:ARG:NE	2.04	0.55
1:a:5110:GLY:N	1:a:5111:PRO:CD	2.69	0.55
1:a:5217:SER:OG	4:d:5142:ASN:HA	2.06	0.55
1:a:5228:THR:CG2	1:a:5229:GLU:H	2.11	0.55
2:b:5149:LEU:HD13	22:b:6012:CLA:C20	2.37	0.55
2:b:5267:LEU:C	2:b:5268:PHE:CD1	2.84	0.55
22:b:6016:CLA:H2A	22:b:6016:CLA:O1D	2.06	0.55
3:c:5063:TRP:CD1	22:c:6028:CLA:HMC1	2.41	0.55
3:c:5248:GLY:O	3:c:5252:ILE:HB	2.06	0.55
4:d:5053:THR:HG23	4:d:5067:TYR:CE2	2.41	0.55
7:h:5006:TRP:NE1	7:h:5010:ILE:HD11	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l:5029:LEU:CB	14:t:5009:ILE:HG21	2.32	0.55
16:v:5039:ASN:ND2	16:v:5040:SER:N	2.54	0.55
26:A:1063:LHG:H321	22:K:1034:CLA:H172	1.88	0.55
29:B:1058:DGD:HA31	7:H:46:LEU:HD21	1.88	0.55
3:C:60:ILE:HG13	22:C:1027:CLA:HMD2	1.89	0.55
22:C:1032:CLA:H2	22:K:1034:CLA:HMB1	1.87	0.55
4:D:301:GLN:NE2	4:D:313:THR:HG21	2.20	0.55
4:D:342:PRO:O	4:D:345:VAL:HG23	2.06	0.55
5:E:78:THR:O	5:E:82:GLN:HG2	2.05	0.55
7:H:31:MET:HB2	22:H:1017:CLA:CAD	2.35	0.55
13:O:41:LEU:HD22	13:O:44:LYS:HD2	1.86	0.55
25:T:6048:BCR:H343	22:b:6023:CLA:H41	1.88	0.55
1:a:5151:LEU:HD11	1:a:5155:PHE:HE2	1.71	0.55
22:b:6023:CLA:CED	22:b:6024:CLA:HBB2	2.32	0.55
25:b:6045:BCR:C34	25:b:6047:BCR:H10C	2.36	0.55
3:c:5042:LEU:HD21	3:c:5048:LYS:CG	2.28	0.55
3:c:5107:ASP:O	3:c:5110:PRO:HD2	2.06	0.55
3:c:5156:LYS:O	3:c:5160:ILE:HD13	2.06	0.55
3:c:5417:VAL:CG1	16:v:5068:VAL:HG11	2.25	0.55
22:c:6029:CLA:CHC	22:c:6029:CLA:HBB1	2.35	0.55
4:d:5261:PHE:CE1	4:d:5267:LEU:HG	2.41	0.55
6:f:5037:ILE:HA	6:f:5040:MET:CE	2.36	0.55
1:A:192:ILE:CG1	1:A:293:MET:HE1	2.36	0.55
1:A:202:VAL:HA	1:A:205:VAL:CG1	2.36	0.55
22:A:1006:CLA:HAA1	22:A:1006:CLA:HBD	1.88	0.55
2:B:122:LEU:HD23	7:H:8:GLY:HA2	1.86	0.55
2:B:221:PRO:HA	22:H:1017:CLA:HED3	1.88	0.55
3:C:72:LEU:HD23	3:C:72:LEU:C	2.31	0.55
4:D:33:SER:OG	4:D:128:ARG:CG	2.54	0.55
7:H:41:PHE:CE1	7:H:45:ILE:HD11	2.40	0.55
8:I:30:ARG:HH11	8:I:30:ARG:HG3	1.72	0.55
25:K:1051:BCR:H331	18:Y:28:ILE:HB	1.87	0.55
12:M:15:VAL:O	12:M:19:SER:HB2	2.07	0.55
13:O:83:LYS:HE3	2:b:5049:ASP:HB3	1.88	0.55
13:O:91:PHE:CE1	13:O:260:LYS:HE3	2.41	0.55
20:Z:4:LEU:C	20:Z:4:LEU:HD12	2.32	0.55
1:a:5064:ARG:NH2	13:o:5098:THR:HG21	2.21	0.55
1:a:5192:ILE:HG12	1:a:5293:MET:CE	2.36	0.55
1:a:5192:ILE:CG1	1:a:5293:MET:HE1	2.36	0.55
1:a:5197:PHE:CD1	1:a:5285:PHE:HB3	2.41	0.55
2:b:5380:ASP:OD1	4:d:5344:GLU:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5384:ARG:HD3	15:u:5102:LEU:CD2	2.36	0.55
22:b:6010:CLA:HMD3	22:b:6011:CLA:H92	1.87	0.55
25:b:6045:BCR:C23	25:b:6045:BCR:C38	2.71	0.55
3:c:5137:PRO:C	3:c:5139:THR:H	2.12	0.55
3:c:5286:ALA:O	3:c:5289:PHE:N	2.34	0.55
22:c:6031:CLA:HAA2	22:c:6031:CLA:HBD	1.88	0.55
22:d:6004:CLA:H201	28:d:6059:MGE:C8A	2.32	0.55
7:h:5017:GLU:HB2	7:h:5020:LYS:HD3	1.88	0.55
7:h:5050:ASN:ND2	7:h:5050:ASN:O	2.39	0.55
10:k:5033:PHE:O	10:k:5034:ALA:C	2.49	0.55
13:o:5231:ASP:OD1	13:o:5234:THR:HG23	2.06	0.55
16:v:5038:LEU:HB2	16:v:5045:ILE:HG13	1.88	0.55
17:x:5029:VAL:O	17:x:5033:THR:HB	2.07	0.55
1:A:116:ILE:HD11	1:A:158:PHE:O	2.06	0.55
2:B:83:GLU:CG	2:B:86:ILE:HD11	2.31	0.55
2:B:278:SER:CB	2:B:281:GLN:HG2	2.26	0.55
2:B:454:ALA:C	2:B:456:ALA:N	2.65	0.55
22:B:1020:CLA:O2A	22:B:1020:CLA:H42	2.06	0.55
3:C:52:ALA:HB1	22:C:1035:CLA:HMB2	1.88	0.55
3:C:107:ASP:O	3:C:110:PRO:HD2	2.06	0.55
3:C:171:GLY:HA2	3:C:174:LEU:CB	2.22	0.55
3:C:291:TRP:HD1	3:C:292:PHE:CE2	2.25	0.55
3:C:425:TRP:O	3:C:428:THR:HG22	2.06	0.55
4:D:53:THR:HG23	4:D:67:TYR:CE2	2.41	0.55
25:D:1050:BCR:C17	28:D:1059:MGE:H102	2.35	0.55
5:E:56:TYR:C	5:E:57:ALA:O	2.48	0.55
1:a:5040:THR:N	22:a:6007:CLA:HBB1	2.21	0.55
22:a:6007:CLA:H112	22:a:6007:CLA:C6	2.29	0.55
23:a:6038:PHO:H93	22:d:6005:CLA:C18	2.28	0.55
2:b:5030:VAL:O	2:b:5031:ALA:C	2.50	0.55
2:b:5033:TRP:CH2	2:b:5062:VAL:HG21	2.41	0.55
2:b:5103:LEU:HD11	2:b:5107:LEU:CD1	2.37	0.55
22:b:6020:CLA:H42	22:b:6020:CLA:O2A	2.06	0.55
3:c:5307:PRO:HB3	3:c:5358:PHE:HB3	1.87	0.55
3:c:5429:SER:HB3	29:c:6056:DGD:C9A	2.34	0.55
22:c:6031:CLA:CMA	22:c:6031:CLA:H2	2.36	0.55
15:u:5042:TYR:CB	15:u:5043:PRO:CD	2.84	0.55
1:A:102:LEU:HD12	1:A:102:LEU:O	2.07	0.55
1:A:254:TYR:HD1	1:A:255:PHE:N	2.05	0.55
1:A:303:ASN:HD22	1:A:303:ASN:N	2.04	0.55
22:B:1016:CLA:HAB	4:D:123:ILE:HG23	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:84:GLN:O	3:C:85:GLY:C	2.50	0.55
3:C:187:ASP:CG	3:C:190:ALA:H	2.15	0.55
3:C:431:PHE:O	3:C:431:PHE:HD2	1.90	0.55
22:C:1031:CLA:CAD	22:C:1033:CLA:H122	2.32	0.55
22:C:1037:CLA:C1B	25:Z:1053:BCR:H272	2.37	0.55
4:D:188:PHE:HE2	4:D:326:ARG:CG	2.17	0.55
6:F:19:ARG:NH2	6:F:20:TRP:HD1	2.05	0.55
25:T:6046:BCR:C35	25:b:6047:BCR:C24	2.71	0.55
15:U:43:PRO:CB	16:V:109:ASP:HB2	2.35	0.55
1:a:5142:TRP:HH2	26:a:6063:LHG:HC5	1.71	0.55
1:a:5279:ARG:CG	4:d:5212:ALA:HB2	2.36	0.55
1:a:5332:HIS:HA	27:d:6064:IOD:I	2.76	0.55
2:b:5059:GLY:CA	2:b:5329:PRO:HB3	2.29	0.55
2:b:5107:LEU:O	2:b:5111:ALA:HB2	2.06	0.55
22:b:6019:CLA:HMA2	22:b:6020:CLA:HMC1	1.88	0.55
22:b:6022:CLA:C1	22:b:6022:CLA:C20	2.85	0.55
29:b:6058:DGD:HA31	7:h:5046:LEU:HD21	1.88	0.55
3:c:5059:LEU:HD23	10:k:5029:PRO:HA	1.89	0.55
3:c:5291:TRP:HD1	3:c:5292:PHE:CE2	2.25	0.55
4:d:5053:THR:HA	4:d:5067:TYR:HD2	1.69	0.55
4:d:5058:TRP:CZ3	5:e:5055:TYR:HB3	2.41	0.55
4:d:5301:GLN:NE2	4:d:5313:THR:HG21	2.20	0.55
9:j:5018:GLY:O	9:j:5021:VAL:HG12	2.06	0.55
13:o:5059:ASP:O	13:o:5060:SER:CB	2.54	0.55
15:u:5050:VAL:C	15:u:5051:LYS:O	2.46	0.55
20:z:5004:LEU:C	20:z:5004:LEU:HD12	2.32	0.55
1:A:137:LEU:HB2	1:A:139:MET:HE3	1.88	0.55
1:A:192:ILE:HG12	1:A:293:MET:CE	2.36	0.55
22:A:1007:CLA:OBD	22:A:1007:CLA:CED	2.39	0.55
2:B:125:ASP:HB3	2:B:128:THR:HG1	1.70	0.55
2:B:153:PHE:HB2	22:B:1014:CLA:HMC3	1.87	0.55
2:B:208:VAL:HG21	22:B:1010:CLA:CMC	2.37	0.55
2:B:464:PHE:HB2	4:D:280:TRP:CH2	2.41	0.55
3:C:56:HIS:C	3:C:56:HIS:HD2	2.07	0.55
3:C:127:PHE:O	3:C:130:VAL:HG12	2.07	0.55
3:C:287:THR:CG2	3:C:427:ALA:O	2.55	0.55
22:C:1031:CLA:CMA	22:C:1031:CLA:H2	2.36	0.55
4:D:48:TRP:CE3	4:D:49:LEU:HG	2.42	0.55
4:D:191:TRP:CE3	4:D:289:LEU:HD11	2.41	0.55
4:D:296:TYR:O	4:D:297:ASP:O	2.25	0.55
13:O:167:ASP:HA	13:O:225:LEU:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:U:42:TYR:CB	15:U:43:PRO:CD	2.84	0.55
16:V:123:SER:HB2	16:V:126:ILE:HD11	1.89	0.55
1:a:5113:GLN:HA	1:a:5116:ILE:CG2	2.37	0.55
1:a:5303:ASN:N	1:a:5303:ASN:HD22	2.04	0.55
3:c:5199:ILE:HD12	3:c:5199:ILE:N	2.21	0.55
3:c:5199:ILE:CG2	3:c:5234:VAL:HG11	2.33	0.55
3:c:5443:TRP:CD1	22:c:6032:CLA:CMD	2.90	0.55
22:c:6037:CLA:C1B	25:z:6053:BCR:H272	2.37	0.55
4:d:5048:TRP:CE3	4:d:5049:LEU:HG	2.42	0.55
25:k:6052:BCR:C38	25:k:6052:BCR:H372	2.23	0.55
12:m:5015:VAL:O	12:m:5019:SER:HB2	2.07	0.55
15:u:5031:ASN:ND2	15:u:5032:ILE:N	2.48	0.55
18:y:5043:ARG:HD3	20:z:5031:GLN:NE2	2.22	0.55
20:z:5035:ARG:HG3	20:z:5036:SER:N	2.22	0.55
1:A:77:ILE:HG12	14:T:6:TYR:CD1	2.42	0.55
1:A:167:SER:C	1:A:169:SER:H	2.13	0.55
1:A:258:LEU:HA	4:D:128:ARG:NH2	2.21	0.55
24:A:1043:PQ9:C45	28:D:1059:MGE:C8A	2.80	0.55
26:A:1063:LHG:H292	22:C:1032:CLA:C7	2.37	0.55
2:B:68:ARG:HD3	22:B:1011:CLA:HED1	1.89	0.55
2:B:354:LEU:C	2:B:355:PHE:CD2	2.84	0.55
2:B:384:ARG:HD3	15:U:102:LEU:CD2	2.36	0.55
2:B:465:GLY:CA	22:B:1019:CLA:HAC1	2.37	0.55
22:B:1022:CLA:C1	22:B:1022:CLA:C20	2.85	0.55
22:B:1024:CLA:HAA2	22:B:1024:CLA:HBD	1.88	0.55
3:C:127:PHE:O	3:C:127:PHE:HD2	1.88	0.55
3:C:334:PRO:HA	13:O:179:THR:HB	1.88	0.55
3:C:453:ALA:HB3	3:C:455:PHE:CE2	2.42	0.55
4:D:37:LEU:HD13	4:D:125:PHE:CA	2.37	0.55
4:D:74:LEU:CD2	4:D:175:VAL:HG11	2.35	0.55
24:D:1042:PQ9:H241	24:D:1042:PQ9:C27	2.37	0.55
28:D:1059:MGE:H211	28:D:1059:MGE:CGB	2.37	0.55
25:H:1049:BCR:H23C	25:H:1049:BCR:H393	1.71	0.55
9:J:18:GLY:O	9:J:21:VAL:HG12	2.06	0.55
25:T:6048:BCR:H342	22:b:6014:CLA:H93	1.89	0.55
17:X:29:VAL:O	17:X:33:THR:HB	2.07	0.55
1:a:5103:ASP:O	1:a:5106:LEU:HB2	2.07	0.55
2:b:5005:TRP:HE3	22:b:6019:CLA:H42	1.72	0.55
2:b:5074:SER:HB3	2:b:5078:TRP:CE2	2.41	0.55
2:b:5097:ALA:O	2:b:5101:ILE:HG12	2.07	0.55
2:b:5275:TRP:CD1	2:b:5318:ASN:ND2	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5389:LYS:HB3	2:b:5390:TYR:CD1	2.40	0.55
22:b:6009:CLA:HBA1	22:b:6009:CLA:O1D	1.99	0.55
3:c:5060:ILE:HG13	22:c:6027:CLA:HMD2	1.88	0.55
3:c:5403:SER:O	3:c:5406:SER:N	2.34	0.55
22:c:6029:CLA:CBC	22:c:6029:CLA:CMC	2.84	0.55
22:c:6035:CLA:H93	25:k:6052:BCR:H402	1.87	0.55
4:d:5066:SER:HB3	4:d:5069:GLU:HG3	1.87	0.55
28:d:6062:MGE:H222	11:l:5022:LEU:HD11	1.89	0.55
8:i:5033:LYS:O	8:i:5035:LYS:N	2.40	0.55
13:o:5250:ASP:O	13:o:5252:GLY:N	2.35	0.55
15:u:5036:ILE:HG22	15:u:5042:TYR:CG	2.41	0.55
16:v:5114:ILE:O	16:v:5114:ILE:HG12	2.07	0.55
16:v:5159:GLY:HA2	16:v:5163:TYR:CE1	2.41	0.55
1:A:111:PRO:O	1:A:112:TYR:C	2.48	0.55
2:B:23:HIS:HD2	22:B:1020:CLA:C4A	2.19	0.55
2:B:33:TRP:CH2	2:B:62:VAL:HG21	2.41	0.55
2:B:149:LEU:HD13	22:B:1012:CLA:C20	2.37	0.55
22:B:1010:CLA:H112	22:B:1010:CLA:C17	2.36	0.55
22:B:1020:CLA:C1	22:B:1023:CLA:O1A	2.55	0.55
25:B:1045:BCR:C34	25:B:1047:BCR:H10C	2.36	0.55
3:C:374:GLY:HA2	13:O:33:TYR:HD1	1.72	0.55
3:C:414:ILE:HG22	3:C:415:ASN:O	2.07	0.55
22:C:1025:CLA:H3A	22:C:1025:CLA:H11	1.88	0.55
4:D:210:LEU:HD23	4:D:274:VAL:HG21	1.89	0.55
5:E:74:GLN:O	5:E:75:GLN:C	2.48	0.55
10:K:40:GLN:HA	10:K:40:GLN:OE1	2.06	0.55
11:L:25:LEU:HB3	14:T:13:ILE:CG1	2.37	0.55
15:U:84:VAL:HG12	15:U:85:THR:N	2.21	0.55
16:V:120:SER:HG	16:V:123:SER:HG	1.54	0.55
1:a:5077:ILE:HG12	14:t:5006:TYR:CD1	2.42	0.55
1:a:5139:MET:O	1:a:5140:ARG:C	2.48	0.55
1:a:5193:LEU:HD11	4:d:5182:LEU:HD12	1.89	0.55
1:a:5279:ARG:HG2	4:d:5212:ALA:CB	2.37	0.55
1:a:5325:ASN:HD22	1:a:5328:MET:CE	2.14	0.55
2:b:5083:GLU:HG2	2:b:5086:ILE:CD1	2.32	0.55
2:b:5465:GLY:CA	22:b:6019:CLA:HAC1	2.37	0.55
22:b:6015:CLA:H2A	22:b:6015:CLA:O1D	2.07	0.55
3:c:5072:LEU:HD23	3:c:5072:LEU:C	2.31	0.55
3:c:5127:PHE:O	3:c:5130:VAL:HG12	2.07	0.55
3:c:5451:ALA:O	3:c:5453:ALA:N	2.40	0.55
22:c:6031:CLA:O1A	22:c:6033:CLA:C5	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5014:TRP:CD1	4:d:5015:PHE:N	2.75	0.55
4:d:5230:SER:C	4:d:5232:PHE:H	2.15	0.55
24:d:6042:PQ9:H241	24:d:6042:PQ9:C27	2.37	0.55
5:e:5078:THR:O	5:e:5082:GLN:HG2	2.05	0.55
6:f:5019:ARG:NH2	6:f:5020:TRP:HD1	2.05	0.55
13:o:5039:THR:OG1	13:o:5041:LEU:HB2	2.06	0.55
13:o:5132:VAL:HG23	13:o:5144:LEU:HD23	1.86	0.55
15:u:5084:VAL:HG12	15:u:5085:THR:N	2.21	0.55
16:v:5120:SER:HG	16:v:5123:SER:HG	1.54	0.55
16:v:5123:SER:HB2	16:v:5126:ILE:HD11	1.89	0.55
1:A:40:THR:N	22:A:1007:CLA:HBB1	2.21	0.55
1:A:332:HIS:HA	27:D:1064:IOD:I	2.76	0.55
2:B:5:TRP:HE3	22:B:1019:CLA:H42	1.72	0.55
2:B:181:VAL:HB	2:B:199:VAL:HG21	1.88	0.55
25:B:1048:BCR:H392	25:B:1048:BCR:C22	2.35	0.55
3:C:56:HIS:HB2	3:C:59:LEU:HD13	1.89	0.55
13:O:182:PHE:C	13:O:182:PHE:CD2	2.85	0.55
13:O:241:PHE:HD2	13:O:265:PHE:HB3	1.72	0.55
1:a:5202:VAL:HA	1:a:5205:VAL:CG1	2.36	0.55
1:a:5254:TYR:HD1	1:a:5255:PHE:N	2.05	0.55
1:a:5272:HIS:HB3	4:d:5218:VAL:CG1	2.37	0.55
22:b:6024:CLA:HBC2	22:b:6024:CLA:HMC3	1.89	0.55
3:c:5056:HIS:HB2	3:c:5059:LEU:HD13	1.89	0.55
3:c:5151:TRP:CE3	3:c:5157:MET:HE1	2.42	0.55
3:c:5160:ILE:HG22	22:c:6031:CLA:HMD1	1.89	0.55
3:c:5190:ALA:O	3:c:5191:PRO:O	2.25	0.55
3:c:5414:ILE:HG22	3:c:5415:ASN:O	2.07	0.55
4:d:5191:TRP:CE3	4:d:5289:LEU:HD11	2.41	0.55
11:l:5015:THR:O	11:l:5018:TYR:N	2.40	0.55
16:v:5058:LEU:O	16:v:5059:PHE:C	2.49	0.55
1:A:322:ASN:HD21	3:C:412:THR:HA	1.72	0.55
2:B:69:LEU:HB3	22:B:1014:CLA:CMA	2.37	0.55
2:B:400:SER:CB	2:B:410:THR:HG22	2.38	0.55
22:B:1012:CLA:HMD2	22:B:1020:CLA:C20	2.37	0.55
22:B:1014:CLA:C4	22:B:1014:CLA:H71	2.34	0.55
22:B:1020:CLA:H111	22:B:1021:CLA:HAB	1.89	0.55
3:C:285:ILE:O	3:C:289:PHE:HB2	2.07	0.55
3:C:343:ARG:CG	3:C:348:GLU:O	2.55	0.55
3:C:346:THR:HB	13:O:38:GLY:CA	2.37	0.55
22:C:1036:CLA:HBC2	22:C:1036:CLA:CMC	2.34	0.55
4:D:194:ASN:O	4:D:195:PRO:C	2.50	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:250:ASN:ND2	14:T:27:PRO:HG3	2.22	0.55
4:D:352:LEU:CD2	4:D:352:LEU:N	2.69	0.55
7:H:17:GLU:HB2	7:H:20:LYS:HD3	1.89	0.55
10:K:24:VAL:HG21	18:Y:25:ILE:CG2	2.26	0.55
11:L:15:THR:O	11:L:18:TYR:N	2.40	0.55
15:U:16:LYS:HZ1	15:U:85:THR:HB	1.72	0.55
1:a:5140:ARG:HH21	26:a:6063:LHG:C3	2.19	0.55
1:a:5316:THR:C	1:a:5318:ALA:H	2.15	0.55
25:a:6044:BCR:H392	25:a:6044:BCR:C22	2.35	0.55
2:b:5025:MET:CG	25:b:6045:BCR:H391	2.37	0.55
2:b:5026:HIS:HB2	22:b:6020:CLA:HMB3	1.89	0.55
3:c:5039:ASN:CB	22:c:6032:CLA:HBA1	2.35	0.55
4:d:5032:TRP:HE3	4:d:5035:ILE:HD11	1.72	0.55
4:d:5257:PHE:CD2	4:d:5257:PHE:O	2.60	0.55
28:d:6059:MGE:H211	28:d:6059:MGE:CGB	2.37	0.55
22:k:6034:CLA:H12	22:k:6034:CLA:C1D	2.37	0.55
1:A:130:GLN:HG2	1:A:144:CYS:HA	1.89	0.54
1:A:139:MET:O	1:A:140:ARG:C	2.48	0.54
1:A:183:MET:C	22:A:1003:CLA:HBC1	2.32	0.54
1:A:193:LEU:HD11	4:D:182:LEU:HD12	1.89	0.54
1:A:197:PHE:CD1	1:A:285:PHE:HB3	2.41	0.54
23:A:1038:PHO:H93	22:D:1005:CLA:C18	2.28	0.54
2:B:248:ALA:HA	22:B:1011:CLA:H51	1.90	0.54
22:B:1012:CLA:HBC3	22:B:1012:CLA:CHD	2.33	0.54
22:B:1019:CLA:HHC	22:B:1019:CLA:CBB	2.34	0.54
3:C:199:ILE:HD12	3:C:199:ILE:N	2.21	0.54
3:C:257:PHE:N	3:C:257:PHE:CD1	2.73	0.54
3:C:443:TRP:CD1	22:C:1032:CLA:CMD	2.90	0.54
3:C:451:ALA:N	3:C:456:GLU:HG2	2.22	0.54
4:D:14:TRP:CD1	4:D:15:PHE:N	2.75	0.54
4:D:43:LEU:HD12	4:D:117:HIS:CE1	2.43	0.54
4:D:214:HIS:HA	4:D:217:THR:HG22	1.88	0.54
22:D:1008:CLA:HAA1	22:D:1008:CLA:HBD	1.88	0.54
13:O:242:GLU:HA	13:O:261:ILE:O	2.08	0.54
15:U:28:ASN:HD22	15:U:54:PRO:CB	2.18	0.54
15:U:42:TYR:O	15:U:43:PRO:C	2.50	0.54
16:V:56:LYS:HA	16:V:144:HIS:CE1	2.41	0.54
16:V:58:LEU:O	16:V:59:PHE:C	2.49	0.54
18:Y:25:ILE:CG1	18:Y:26:ALA:N	2.69	0.54
1:a:5148:SER:O	1:a:5149:ALA:C	2.50	0.54
1:a:5183:MET:C	22:a:6003:CLA:HBC1	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5047:PRO:O	2:b:5049:ASP:N	2.40	0.54
2:b:5277:SER:C	2:b:5279:TYR:H	2.13	0.54
22:b:6023:CLA:H152	22:b:6024:CLA:C1B	2.37	0.54
3:c:5285:ILE:O	3:c:5289:PHE:HB2	2.07	0.54
3:c:5431:PHE:HD2	3:c:5431:PHE:O	1.90	0.54
4:d:5210:LEU:HD23	4:d:5274:VAL:HG21	1.89	0.54
4:d:5250:ASN:ND2	14:t:5027:PRO:HG3	2.22	0.54
4:d:5296:TYR:O	4:d:5297:ASP:O	2.25	0.54
8:i:5012:VAL:CG1	8:i:5013:THR:N	2.70	0.54
10:k:5020:PRO:HB3	18:y:5021:GLN:HA	1.87	0.54
13:o:5069:LEU:HD11	13:o:5071:LEU:HD21	1.88	0.54
16:v:5159:GLY:HA2	16:v:5163:TYR:HE1	1.72	0.54
20:z:5005:PHE:CE1	20:z:5054:VAL:HG13	2.42	0.54
1:A:93:PHE:O	1:A:95:PRO:CD	2.55	0.54
1:A:272:HIS:CD2	4:D:218:VAL:CG2	2.86	0.54
2:B:220:ARG:HD3	2:B:221:PRO:CD	2.29	0.54
2:B:346:PHE:CE1	2:B:421:ALA:HB2	2.43	0.54
3:C:332:GLN:HE22	13:O:175:PRO:HG3	1.71	0.54
22:C:1031:CLA:H142	25:C:1054:BCR:C36	2.37	0.54
6:F:42:PHE:O	6:F:44:GLN:N	2.40	0.54
7:H:6:TRP:NE1	7:H:10:ILE:HD11	2.21	0.54
8:I:27:ASP:N	8:I:28:PRO:HD3	2.23	0.54
13:O:86:ARG:HG3	13:O:86:ARG:NH1	2.22	0.54
15:U:16:LYS:O	15:U:21:TYR:HB3	2.06	0.54
15:U:36:ILE:HG22	15:U:42:TYR:CG	2.41	0.54
16:V:38:LEU:HB2	16:V:45:ILE:HG13	1.88	0.54
18:Y:32:GLY:O	18:Y:35:ILE:CG2	2.53	0.54
18:Y:43:ARG:HD3	20:Z:31:GLN:NE2	2.22	0.54
1:a:5022:THR:HG22	1:a:5022:THR:O	2.08	0.54
1:a:5093:PHE:O	1:a:5095:PRO:CD	2.55	0.54
1:a:5159:LEU:C	1:a:5162:PRO:HD2	2.33	0.54
1:a:5335:ASN:ND2	13:o:5182:PHE:CZ	2.76	0.54
1:a:5339:PHE:O	4:d:5351:ALA:HB1	2.07	0.54
2:b:5158:LEU:HB3	2:b:5199:VAL:HG22	1.90	0.54
2:b:5221:PRO:HA	22:h:6017:CLA:HED3	1.88	0.54
2:b:5346:PHE:CE1	2:b:5421:ALA:HB2	2.43	0.54
22:b:6012:CLA:CHD	22:b:6020:CLA:H201	2.37	0.54
22:c:6025:CLA:H3A	22:c:6025:CLA:H11	1.88	0.54
4:d:5074:LEU:CD2	4:d:5175:VAL:HG11	2.35	0.54
4:d:5246:MET:O	4:d:5249:ALA:HB3	2.07	0.54
4:d:5263:ASN:OD1	4:d:5265:ARG:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:d:6042:PQ9:C23	28:l:6061:MGE:H263	2.37	0.54
6:f:5042:PHE:O	6:f:5044:GLN:N	2.40	0.54
13:o:5105:ASP:OD1	13:o:5106:GLN:HG2	2.07	0.54
1:A:103:ASP:O	1:A:106:LEU:HB2	2.07	0.54
1:A:112:TYR:O	1:A:116:ILE:HG22	2.07	0.54
1:A:160:ILE:HD13	3:C:431:PHE:CZ	2.42	0.54
1:A:187:GLN:O	1:A:191:ASN:N	2.37	0.54
1:A:218:LEU:HD11	1:A:255:PHE:HB2	1.90	0.54
1:A:335:ASN:ND2	13:O:182:PHE:CZ	2.76	0.54
2:B:158:LEU:HB3	2:B:199:VAL:HG22	1.90	0.54
2:B:384:ARG:NH1	15:U:102:LEU:HD23	2.23	0.54
22:B:1011:CLA:CGA	22:B:1011:CLA:C4A	2.84	0.54
25:B:1047:BCR:C24	25:t:1046:BCR:C35	2.71	0.54
4:D:246:MET:O	4:D:249:ALA:HB3	2.07	0.54
4:D:263:ASN:OD1	4:D:265:ARG:N	2.40	0.54
28:D:1062:MGE:H222	11:L:22:LEU:HD11	1.89	0.54
8:I:33:LYS:O	8:I:35:LYS:N	2.40	0.54
10:K:14:ALA:HB2	20:Z:61:VAL:HG22	1.90	0.54
22:K:1034:CLA:H12	22:K:1034:CLA:C1D	2.37	0.54
1:a:5116:ILE:HD11	1:a:5158:PHE:O	2.07	0.54
1:a:5143:ILE:HG23	1:a:5144:CYS:N	2.21	0.54
25:a:6044:BCR:H403	25:a:6044:BCR:C22	2.36	0.54
2:b:5006:TYR:HA	22:b:6019:CLA:O2A	2.06	0.54
10:k:5035:LEU:HD22	25:k:6051:BCR:H352	1.88	0.54
15:u:5016:LYS:O	15:u:5021:TYR:HB3	2.06	0.54
1:A:269:ARG:CZ	4:D:222:LEU:HD22	2.37	0.54
2:B:21:ALA:HA	2:B:24:LEU:HB3	1.89	0.54
2:B:47:PRO:O	2:B:49:ASP:N	2.40	0.54
22:B:1015:CLA:HBD	22:B:1015:CLA:HAA1	1.90	0.54
22:B:1016:CLA:C3	22:H:1017:CLA:C9	2.83	0.54
22:B:1018:CLA:C10	22:B:1023:CLA:CBA	2.85	0.54
22:B:1022:CLA:C2D	22:B:1022:CLA:C20	2.82	0.54
22:B:1023:CLA:HAA2	22:B:1023:CLA:HBD	1.88	0.54
28:B:1060:MGE:C5B	4:D:276:VAL:HB	2.37	0.54
3:C:63:TRP:CD1	22:C:1028:CLA:HMC1	2.41	0.54
5:E:52:PRO:HG2	9:J:36:LEU:HD11	1.88	0.54
8:I:12:VAL:CG1	8:I:13:THR:N	2.70	0.54
10:K:39:VAL:HG12	10:K:40:GLN:N	2.21	0.54
12:M:34:LYS:HD2	12:m:5032:GLN:NE2	2.22	0.54
13:O:63:THR:HG23	13:O:271:PRO:O	2.08	0.54
20:Z:35:ARG:HG3	20:Z:36:SER:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5172:MET:SD	1:a:5179:THR:HG22	2.47	0.54
1:a:5267:ASN:O	1:a:5270:SER:N	2.41	0.54
1:a:5269:ARG:CZ	4:d:5222:LEU:HD22	2.37	0.54
1:a:5296:ASN:HB2	3:c:5400:PRO:O	2.07	0.54
2:b:5233:ASN:O	2:b:5236:THR:HG22	2.07	0.54
2:b:5454:ALA:C	2:b:5456:ALA:N	2.65	0.54
2:b:5464:PHE:HB2	4:d:5280:TRP:CH2	2.41	0.54
22:b:6016:CLA:C3	22:h:6017:CLA:C9	2.83	0.54
22:b:6018:CLA:H2	22:b:6018:CLA:H71	1.89	0.54
22:b:6020:CLA:H111	22:b:6021:CLA:HAB	1.89	0.54
3:c:5343:ARG:CG	3:c:5348:GLU:O	2.55	0.54
22:c:6032:CLA:H161	29:c:6056:DGD:CDB	2.37	0.54
4:d:5043:LEU:HD12	4:d:5117:HIS:CE1	2.43	0.54
4:d:5097:ALA:O	5:e:5073:LYS:HE2	2.08	0.54
9:j:5020:GLY:HA2	9:j:5023:VAL:HG12	1.90	0.54
10:k:5014:ALA:HB2	20:z:5061:VAL:HG22	1.90	0.54
11:l:5025:LEU:HB3	14:t:5013:ILE:CG1	2.37	0.54
13:o:5079:LYS:HE2	13:o:5089:ALA:HB1	1.90	0.54
13:o:5167:ASP:HA	13:o:5225:LEU:O	2.07	0.54
15:u:5064:ILE:HG22	15:u:5067:LEU:HG	1.89	0.54
1:A:138:GLY:HA2	3:C:455:PHE:CE2	2.43	0.54
1:A:217:SER:OG	4:D:142:ASN:HA	2.06	0.54
2:B:26:HIS:HB2	22:B:1020:CLA:HMB3	1.89	0.54
2:B:233:ASN:O	2:B:236:THR:HG22	2.08	0.54
2:B:275:TRP:CD1	2:B:318:ASN:ND2	2.75	0.54
2:B:277:SER:C	2:B:279:TYR:H	2.13	0.54
2:B:292:LEU:C	2:B:294:SER:H	2.15	0.54
3:C:369:LEU:HD13	3:C:380:ILE:CD1	2.37	0.54
4:D:109:GLY:C	4:D:111:TRP:N	2.62	0.54
7:H:28:THR:O	7:H:31:MET:HB3	2.08	0.54
13:O:125:ASP:CG	13:O:126:GLY:N	2.66	0.54
15:U:76:ARG:O	15:U:79:LEU:HB2	2.08	0.54
15:U:94:GLY:O	15:U:95:GLY:C	2.51	0.54
1:a:5090:GLY:HA2	1:a:5167:SER:CB	2.38	0.54
1:a:5102:LEU:HD12	1:a:5102:LEU:O	2.07	0.54
1:a:5112:TYR:O	1:a:5116:ILE:HG22	2.07	0.54
1:a:5128:GLY:C	1:a:5130:GLN:H	2.13	0.54
1:a:5160:ILE:HD13	3:c:5431:PHE:CZ	2.42	0.54
1:a:5258:LEU:HA	4:d:5128:ARG:HH21	1.72	0.54
22:a:6007:CLA:HAB	8:i:5015:PHE:CD2	2.43	0.54
2:b:5005:TRP:CE2	28:l:6061:MGE:H2A2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5208:VAL:HG21	22:b:6010:CLA:CMC	2.37	0.54
2:b:5275:TRP:CD1	2:b:5318:ASN:HD22	2.25	0.54
2:b:5292:LEU:C	2:b:5294:SER:H	2.15	0.54
2:b:5453:PHE:O	2:b:5456:ALA:HB3	2.08	0.54
22:b:6022:CLA:C2D	22:b:6022:CLA:C20	2.82	0.54
28:b:6060:MGE:C5B	4:d:5276:VAL:HB	2.37	0.54
3:c:5119:LEU:HD11	25:k:6052:BCR:H343	1.90	0.54
3:c:5315:MET:HE1	3:c:5380:ILE:HD11	1.89	0.54
4:d:5054:PHE:HB3	5:e:5047:PHE:CD1	2.41	0.54
7:h:5056:ASP:C	7:h:5058:VAL:N	2.63	0.54
13:o:5063:THR:HG23	13:o:5271:PRO:O	2.08	0.54
13:o:5182:PHE:C	13:o:5182:PHE:CD2	2.85	0.54
20:z:5001:MET:SD	20:z:5004:LEU:HD23	2.48	0.54
1:A:22:THR:HG22	1:A:22:THR:O	2.07	0.54
1:A:113:GLN:HA	1:A:116:ILE:CG2	2.37	0.54
1:A:159:LEU:C	1:A:162:PRO:HD2	2.33	0.54
22:A:1006:CLA:CBC	22:A:1006:CLA:CHD	2.74	0.54
22:A:1006:CLA:C17	25:D:1050:BCR:C28	2.70	0.54
2:B:12:LEU:H	2:B:12:LEU:CD1	2.15	0.54
2:B:468:TRP:HE3	4:D:144:ILE:HD13	1.73	0.54
22:B:1016:CLA:C17	22:D:1008:CLA:HMA1	2.34	0.54
3:C:450:ALA:HB1	3:C:456:GLU:HB3	1.90	0.54
22:C:1031:CLA:O1A	22:C:1033:CLA:C5	2.54	0.54
22:C:1035:CLA:HBB2	22:K:1034:CLA:CMA	2.31	0.54
4:D:54:PHE:HB3	5:E:47:PHE:CD1	2.41	0.54
4:D:139:ARG:NH1	4:D:265:ARG:HH21	1.94	0.54
4:D:140:PRO:O	4:D:143:ALA:N	2.39	0.54
4:D:230:SER:C	4:D:232:PHE:H	2.15	0.54
4:D:257:PHE:CD2	4:D:257:PHE:O	2.60	0.54
15:U:64:ILE:HG22	15:U:67:LEU:HG	1.89	0.54
18:Y:42:ARG:HB2	18:Y:43:ARG:HH11	1.70	0.54
1:a:5076:ASN:HD21	11:l:5033:SER:C	2.15	0.54
1:a:5258:LEU:HA	4:d:5128:ARG:NH2	2.21	0.54
1:a:5270:SER:HB2	26:a:6063:LHG:H142	1.90	0.54
1:a:5323:ARG:HG3	4:d:5329:MET:HA	1.89	0.54
2:b:5137:LYS:NZ	7:h:5014:LEU:O	2.41	0.54
2:b:5169:SER:CB	2:b:5176:GLY:HA2	2.17	0.54
22:b:6011:CLA:C2D	22:b:6013:CLA:C3	2.86	0.54
3:c:5187:ASP:CG	3:c:5190:ALA:H	2.15	0.54
4:d:5058:TRP:CH2	5:e:5055:TYR:HB3	2.43	0.54
4:d:5139:ARG:NH1	4:d:5265:ARG:HH21	1.94	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5276:VAL:HG23	4:d:5277:THR:N	2.23	0.54
7:h:5031:MET:HB2	22:h:6017:CLA:C3D	2.38	0.54
10:k:5014:ALA:H	20:z:5062:VAL:HG11	1.73	0.54
1:A:80:GLY:O	1:A:81:ALA:HB2	2.07	0.54
2:B:257:TRP:CE3	4:D:291:LEU:HD22	2.43	0.54
2:B:390:TYR:N	2:B:390:TYR:HD1	2.04	0.54
22:B:1019:CLA:HBB1	22:B:1019:CLA:CHC	2.37	0.54
22:B:1019:CLA:HMA2	22:B:1020:CLA:HMC1	1.88	0.54
3:C:315:MET:HE1	3:C:380:ILE:HD11	1.89	0.54
3:C:415:ASN:HB3	29:C:1057:DGD:O2E	2.08	0.54
22:C:1029:CLA:CBC	22:C:1029:CLA:CMC	2.84	0.54
4:D:201:VAL:HG23	22:D:1004:CLA:CMB	2.19	0.54
4:D:276:VAL:HG23	4:D:277:THR:N	2.23	0.54
24:D:1042:PQ9:C24	24:D:1042:PQ9:H292	2.37	0.54
5:E:10:PHE:O	5:E:11:SER:C	2.51	0.54
13:O:100:GLU:C	13:O:102:THR:H	2.16	0.54
16:V:138:LEU:O	16:V:139:VAL:C	2.50	0.54
1:a:5080:GLY:O	1:a:5081:ALA:HB2	2.07	0.54
2:b:5325:PHE:O	2:b:5327:THR:N	2.37	0.54
3:c:5165:LEU:HD22	22:c:6030:CLA:HMC2	1.90	0.54
22:c:6031:CLA:HMA2	22:c:6031:CLA:C1	2.38	0.54
4:d:5055:VAL:O	4:d:5066:SER:HB2	2.08	0.54
5:e:5034:GLY:HA3	6:f:5032:PHE:O	2.08	0.54
7:h:5028:THR:O	7:h:5031:MET:HB3	2.08	0.54
15:u:5016:LYS:HA	15:u:5019:THR:HG23	1.88	0.54
15:u:5082:PHE:CD2	15:u:5082:PHE:N	2.76	0.54
1:A:58:VAL:HB	1:A:83:VAL:HG21	1.90	0.54
1:A:223:LEU:O	1:A:224:ILE:CB	2.41	0.54
2:B:137:LYS:NZ	7:H:14:LEU:O	2.41	0.54
22:B:1023:CLA:H152	22:B:1024:CLA:C1B	2.37	0.54
22:B:1024:CLA:HBC2	22:B:1024:CLA:HMC3	1.89	0.54
25:B:1047:BCR:H14C	25:t:1046:BCR:H391	1.90	0.54
3:C:190:ALA:O	3:C:191:PRO:O	2.25	0.54
9:J:20:GLY:HA2	9:J:23:VAL:HG12	1.89	0.54
12:M:9:ILE:HG23	12:M:13:LEU:HD23	1.89	0.54
13:O:85:LYS:CB	2:b:5307:GLU:OE2	2.50	0.54
13:O:105:ASP:OD1	13:O:106:GLN:HG2	2.07	0.54
16:V:68:VAL:HG13	16:V:73:LYS:HE3	1.90	0.54
1:a:5283:VAL:HG21	23:a:6038:PHO:HMC3	1.90	0.54
22:a:6006:CLA:C17	25:d:6050:BCR:C28	2.70	0.54
2:b:5158:LEU:HB2	2:b:5199:VAL:HG13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5460:LEU:O	4:d:5280:TRP:HZ3	1.90	0.54
2:b:5463:PHE:CE1	22:b:6016:CLA:CBB	2.89	0.54
22:b:6021:CLA:CMD	22:b:6022:CLA:HBB2	2.33	0.54
25:b:6047:BCR:H392	25:b:6047:BCR:C22	2.35	0.54
3:c:5059:LEU:HD21	10:k:5032:PHE:CD1	2.42	0.54
3:c:5140:LEU:HD21	3:c:5146:PHE:CE1	2.29	0.54
3:c:5287:THR:CG2	3:c:5427:ALA:O	2.55	0.54
3:c:5374:GLY:HA2	13:o:5033:TYR:HD1	1.72	0.54
3:c:5415:ASN:HB3	29:c:6057:DGD:O2E	2.07	0.54
29:c:6056:DGD:C6D	29:c:6056:DGD:C4E	2.86	0.54
4:d:5194:ASN:O	4:d:5195:PRO:C	2.50	0.54
6:f:5040:MET:CB	6:f:5043:ILE:HD11	2.38	0.54
8:i:5010:ILE:H	8:i:5010:ILE:CD1	2.20	0.54
10:k:5032:PHE:CE1	25:k:6052:BCR:H372	2.42	0.54
12:m:5009:ILE:HG23	12:m:5013:LEU:HD23	1.89	0.54
13:o:5242:GLU:HA	13:o:5261:ILE:O	2.08	0.54
15:u:5094:GLY:O	15:u:5095:GLY:C	2.51	0.54
1:A:116:ILE:CG2	1:A:117:PHE:H	2.19	0.54
1:A:180:PHE:CE1	4:D:192:THR:O	2.61	0.54
1:A:267:ASN:HB3	1:A:270:SER:HG	1.71	0.54
1:A:271:LEU:O	1:A:272:HIS:C	2.49	0.54
1:A:296:ASN:HB2	3:C:400:PRO:O	2.07	0.54
1:A:307:ILE:HG22	1:A:308:ASP:N	2.23	0.54
1:A:315:ASN:O	4:D:63:LEU:CD2	2.56	0.54
22:A:1003:CLA:HED2	22:A:1003:CLA:CBA	2.33	0.54
2:B:383:PHE:O	13:O:192:SER:HA	2.08	0.54
22:B:1015:CLA:O1D	22:B:1015:CLA:H2A	2.07	0.54
25:B:1048:BCR:H403	25:B:1048:BCR:C22	2.34	0.54
3:C:59:LEU:HD23	10:K:29:PRO:HA	1.89	0.54
3:C:322:GLN:HE22	3:C:381:LYS:HA	1.73	0.54
4:D:259:ILE:HG22	4:D:260:ALA:N	2.23	0.54
9:J:10:LEU:HD13	9:J:10:LEU:N	2.14	0.54
13:O:132:VAL:HG23	13:O:144:LEU:HD23	1.86	0.54
1:a:5181:ASN:HD22	4:d:5314:PHE:HD2	1.56	0.54
1:a:5184:ILE:CG1	4:d:5186:GLN:NE2	2.66	0.54
22:a:6006:CLA:CAB	22:d:6004:CLA:H51	2.37	0.54
22:a:6006:CLA:HBD	22:a:6006:CLA:HAA1	1.88	0.54
2:b:5069:LEU:HB3	22:b:6014:CLA:CMA	2.37	0.54
2:b:5306:PRO:HG2	2:b:5309:LEU:HB3	1.90	0.54
2:b:5384:ARG:NH1	15:u:5102:LEU:HD23	2.23	0.54
22:b:6022:CLA:OBD	22:b:6022:CLA:CED	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:b:6023:CLA:O1D	22:b:6024:CLA:CBB	2.56	0.54
3:c:5084:GLN:O	3:c:5085:GLY:C	2.50	0.54
3:c:5142:GLU:C	3:c:5144:SER:N	2.63	0.54
3:c:5209:ILE:HD13	3:c:5236:GLY:HA2	1.90	0.54
3:c:5346:THR:HB	13:o:5038:GLY:CA	2.36	0.54
22:c:6026:CLA:C12	22:c:6026:CLA:H93	2.38	0.54
4:d:5221:THR:O	4:d:5221:THR:HG22	2.08	0.54
6:f:5034:LEU:HD12	9:j:5024:ILE:HD13	1.90	0.54
8:i:5027:ASP:N	8:i:5028:PRO:HD3	2.23	0.54
11:l:5014:ARG:O	11:l:5018:TYR:CD2	2.61	0.54
1:A:64:ARG:CZ	13:O:98:THR:HG21	2.38	0.54
1:A:131:TRP:HZ2	3:C:449:ARG:HG2	1.71	0.54
22:A:1007:CLA:HAB	8:I:15:PHE:CD2	2.43	0.54
2:B:237:VAL:HG13	22:B:1018:CLA:C1D	2.38	0.54
3:C:135:ARG:NH1	20:Z:33:TRP:CE3	2.76	0.54
3:C:137:PRO:C	3:C:139:THR:N	2.66	0.54
4:D:55:VAL:O	4:D:66:SER:HB2	2.08	0.54
4:D:97:ALA:O	5:E:73:LYS:HE2	2.08	0.54
4:D:221:THR:O	4:D:221:THR:HG22	2.08	0.54
4:D:251:ARG:HB3	4:D:251:ARG:HH11	1.73	0.54
5:E:34:GLY:HA3	6:F:32:PHE:O	2.08	0.54
15:U:82:PHE:CD2	15:U:82:PHE:N	2.76	0.54
1:a:5322:ASN:HD21	3:c:5412:THR:HA	1.72	0.54
22:a:6007:CLA:HAC1	25:a:6044:BCR:C15	2.38	0.54
2:b:5045:PHE:HA	2:b:5058:GLN:NE2	2.23	0.54
2:b:5237:VAL:HG13	22:b:6018:CLA:C1D	2.38	0.54
2:b:5283:GLU:CG	2:b:5286:ARG:HH12	2.21	0.54
22:b:6011:CLA:C9	22:b:6011:CLA:CBB	2.86	0.54
22:b:6022:CLA:C1	22:b:6022:CLA:H203	2.38	0.54
3:c:5435:PHE:O	3:c:5438:LEU:N	2.41	0.54
3:c:5465:PRO:CG	8:i:5032:PRO:HB3	2.38	0.54
22:c:6025:CLA:CAD	22:c:6025:CLA:CED	2.86	0.54
4:d:5037:LEU:HD13	4:d:5125:PHE:CA	2.37	0.54
4:d:5209:LEU:HD23	4:d:5209:LEU:C	2.33	0.54
13:o:5092:VAL:HG11	13:o:5137:ALA:HB2	1.90	0.54
14:t:5012:CYS:HA	27:t:6066:IOD:I	2.78	0.54
17:x:5043:ILE:O	17:x:5043:ILE:CG2	2.52	0.54
1:A:267:ASN:O	1:A:270:SER:N	2.41	0.53
1:A:336:ALA:O	1:A:338:ASN:N	2.41	0.53
1:A:339:PHE:HB2	27:A:1065:IOD:I	2.78	0.53
25:A:1044:BCR:H403	25:A:1044:BCR:C22	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:19:LEU:HG	2:B:23:HIS:CE1	2.43	0.53
2:B:275:TRP:CD1	2:B:318:ASN:HD22	2.25	0.53
2:B:394:GLN:OE1	15:U:17:LEU:HD21	2.08	0.53
22:B:1011:CLA:C2D	22:B:1013:CLA:C3	2.86	0.53
22:B:1021:CLA:CMD	22:B:1022:CLA:HBB2	2.32	0.53
22:B:1023:CLA:O1D	22:B:1024:CLA:CBB	2.56	0.53
3:C:117:VAL:HG21	22:C:1027:CLA:H43	1.90	0.53
3:C:429:SER:HB3	29:C:1056:DGD:C9A	2.34	0.53
3:C:435:PHE:O	3:C:438:LEU:N	2.41	0.53
3:C:457:LYS:HZ1	4:D:228:GLY:HA2	1.69	0.53
29:C:1056:DGD:C6D	29:C:1056:DGD:C4E	2.86	0.53
4:D:58:TRP:CH2	5:E:55:TYR:HB3	2.43	0.53
4:D:161:PRO:HB3	4:D:170:ALA:HB2	1.90	0.53
24:D:1042:PQ9:C23	28:L:1061:MGE:H263	2.37	0.53
9:J:30:TYR:CD2	9:J:31:GLY:N	2.77	0.53
13:O:188:ARG:HB2	13:O:188:ARG:HH11	1.68	0.53
1:a:5052:PHE:C	1:a:5071:LEU:HD12	2.33	0.53
1:a:5137:LEU:HB2	1:a:5139:MET:HE3	1.89	0.53
1:a:5244:GLU:CG	4:d:5242:GLU:HA	2.38	0.53
1:a:5279:ARG:HE	23:a:6038:PHO:C2C	2.21	0.53
25:a:6044:BCR:C8	25:a:6044:BCR:C33	2.86	0.53
2:b:5068:ARG:HD3	22:b:6011:CLA:HED1	1.89	0.53
2:b:5257:TRP:CE3	4:d:5291:LEU:HD22	2.43	0.53
2:b:5302:TRP:C	2:b:5304:ALA:H	2.16	0.53
2:b:5311:PHE:CE2	2:b:5317:ASN:ND2	2.64	0.53
2:b:5383:PHE:O	13:o:5192:SER:HA	2.08	0.53
22:b:6015:CLA:HAA1	22:b:6015:CLA:HBD	1.90	0.53
3:c:5189:TRP:O	3:c:5190:ALA:C	2.51	0.53
3:c:5450:ALA:HB1	3:c:5456:GLU:HB3	1.90	0.53
3:c:5453:ALA:HB3	3:c:5455:PHE:CE2	2.42	0.53
4:d:5152:VAL:HG11	22:d:6004:CLA:H11	1.90	0.53
9:j:5030:TYR:CD2	9:j:5031:GLY:N	2.77	0.53
13:o:5086:ARG:HG3	13:o:5086:ARG:NH1	2.22	0.53
13:o:5241:PHE:HD2	13:o:5265:PHE:HB3	1.72	0.53
18:y:5037:PHE:O	18:y:5041:VAL:HG22	2.08	0.53
1:A:76:ASN:HD21	11:L:33:SER:C	2.15	0.53
1:A:90:GLY:HA2	1:A:167:SER:CB	2.38	0.53
1:A:236:GLY:O	1:A:237:TYR:HB2	2.08	0.53
1:A:270:SER:HB2	26:A:1063:LHG:H142	1.90	0.53
2:B:103:LEU:HD11	2:B:107:LEU:CD1	2.37	0.53
2:B:460:LEU:O	4:D:280:TRP:HZ3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1018:CLA:H8	22:B:1023:CLA:HBA1	1.91	0.53
3:C:151:TRP:CE3	3:C:157:MET:HE1	2.42	0.53
3:C:203:THR:H	3:C:235:GLY:HA3	1.74	0.53
3:C:451:ALA:O	3:C:453:ALA:N	2.40	0.53
11:L:14:ARG:O	11:L:18:TYR:CD2	2.61	0.53
12:M:35:SER:O	12:M:36:SER:CB	2.56	0.53
13:O:79:LYS:HE2	13:O:89:ALA:HB1	1.90	0.53
13:O:146:PHE:CE2	13:O:261:ILE:HG21	2.44	0.53
16:V:114:ILE:HG12	16:V:114:ILE:O	2.07	0.53
1:a:5064:ARG:CZ	13:o:5098:THR:HG21	2.38	0.53
1:a:5271:LEU:HG	1:a:5272:HIS:H	1.73	0.53
2:b:5065:PHE:HE2	22:b:6012:CLA:CMA	1.97	0.53
2:b:5248:ALA:HA	22:b:6011:CLA:H51	1.90	0.53
2:b:5280:PHE:CZ	2:b:5312:TYR:HD1	2.26	0.53
2:b:5394:GLN:OE1	15:u:5017:LEU:HD21	2.08	0.53
2:b:5452:THR:HB	4:d:5291:LEU:HD13	1.89	0.53
22:b:6013:CLA:HBC3	22:b:6013:CLA:CMC	2.38	0.53
3:c:5029:GLU:HA	3:c:5041:ARG:HH11	1.74	0.53
3:c:5176:VAL:O	3:c:5180:MET:HG3	2.08	0.53
3:c:5216:SER:O	3:c:5221:GLU:O	2.27	0.53
4:d:5019:ASP:O	4:d:5020:ASP:C	2.51	0.53
4:d:5272:LEU:O	4:d:5276:VAL:HG22	2.08	0.53
24:d:6042:PQ9:C24	24:d:6042:PQ9:H292	2.37	0.53
13:o:5100:GLU:C	13:o:5102:THR:H	2.16	0.53
15:u:5031:ASN:HD22	15:u:5031:ASN:C	2.14	0.53
16:v:5038:LEU:CA	16:v:5095:ILE:HG22	2.28	0.53
1:A:258:LEU:HA	4:D:128:ARG:HH21	1.72	0.53
2:B:95:GLY:O	2:B:99:ALA:N	2.41	0.53
2:B:283:GLU:CG	2:B:286:ARG:HH12	2.21	0.53
2:B:461:LEU:O	2:B:464:PHE:N	2.37	0.53
22:B:1019:CLA:CBA	22:B:1019:CLA:HBD	2.38	0.53
3:C:119:LEU:HD11	25:C:1052:BCR:H343	1.89	0.53
3:C:146:PHE:C	3:C:147:PHE:CG	2.85	0.53
3:C:165:LEU:HD22	22:C:1030:CLA:HMC2	1.90	0.53
3:C:189:TRP:O	3:C:190:ALA:C	2.51	0.53
3:C:216:SER:O	3:C:221:GLU:O	2.27	0.53
3:C:465:PRO:CG	8:I:32:PRO:HB3	2.38	0.53
4:D:18:LEU:HD23	4:D:32:TRP:CH2	2.44	0.53
4:D:29:PHE:CE2	4:D:31:GLY:CA	2.91	0.53
4:D:78:VAL:HG13	4:D:78:VAL:O	2.09	0.53
5:E:77:GLU:O	5:E:79:PHE:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:40:MET:CB	6:F:43:ILE:HD11	2.38	0.53
7:H:12:ARG:HH11	7:H:12:ARG:HA	1.74	0.53
8:I:10:ILE:H	8:I:10:ILE:CD1	2.20	0.53
1:a:5051:ALA:HA	1:a:5055:ALA:HB2	1.91	0.53
1:a:5130:GLN:CG	1:a:5144:CYS:HA	2.38	0.53
1:a:5236:GLY:O	1:a:5237:TYR:HB2	2.08	0.53
1:a:5307:ILE:HG22	1:a:5308:ASP:N	2.23	0.53
1:a:5315:ASN:O	4:d:5063:LEU:CD2	2.56	0.53
2:b:5019:LEU:HG	2:b:5023:HIS:CE1	2.43	0.53
2:b:5400:SER:CB	2:b:5410:THR:HG22	2.37	0.53
2:b:5468:TRP:HE3	4:d:5144:ILE:HD13	1.73	0.53
22:c:6026:CLA:H93	22:c:6026:CLA:H121	1.90	0.53
22:c:6029:CLA:HMA2	22:c:6029:CLA:CBA	2.25	0.53
29:c:6057:DGD:CGA	28:d:6059:MGE:H232	2.39	0.53
4:d:5302:GLU:OE1	13:o:5186:LYS:CD	2.57	0.53
5:e:5077:GLU:O	5:e:5079:PHE:N	2.41	0.53
8:i:5030:ARG:HG3	8:i:5030:ARG:HH11	1.72	0.53
10:k:5037:PHE:HB3	25:k:6051:BCR:H401	1.89	0.53
1:A:148:SER:O	1:A:149:ALA:C	2.50	0.53
1:A:244:GLU:CG	4:D:242:GLU:HA	2.38	0.53
1:A:316:THR:C	1:A:318:ALA:H	2.15	0.53
2:B:103:LEU:HG	2:B:104:SER:N	2.24	0.53
2:B:280:PHE:CZ	2:B:312:TYR:HD1	2.26	0.53
2:B:453:PHE:O	2:B:456:ALA:HB3	2.08	0.53
22:B:1013:CLA:HMB1	22:B:1014:CLA:C1	2.38	0.53
22:B:1014:CLA:H93	25:B:1048:BCR:H342	1.89	0.53
22:B:1018:CLA:H71	22:B:1018:CLA:H2	1.89	0.53
3:C:56:HIS:O	3:C:60:ILE:HG23	2.08	0.53
3:C:56:HIS:CE1	22:C:1033:CLA:HHB	2.44	0.53
3:C:265:ILE:CG2	3:C:270:ALA:HB1	2.39	0.53
22:C:1026:CLA:C12	22:C:1026:CLA:H93	2.38	0.53
6:F:22:ALA:C	6:F:24:HIS:N	2.62	0.53
15:U:44:THR:O	15:U:45:LEU:C	2.51	0.53
16:V:119:PRO:CB	16:V:130:MET:HE2	2.39	0.53
1:a:5116:ILE:CG2	1:a:5117:PHE:H	2.19	0.53
1:a:5321:ILE:CD1	4:d:5176:ALA:HB1	2.17	0.53
2:b:5021:ALA:HA	2:b:5024:LEU:HB3	1.89	0.53
3:c:5059:LEU:CD2	22:k:6034:CLA:HBD	2.38	0.53
3:c:5188:THR:HA	3:c:5194:GLY:HA2	1.90	0.53
3:c:5223:TRP:HE1	3:c:5224:ILE:CG1	2.22	0.53
3:c:5466:VAL:C	3:c:5468:SER:H	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6031:CLA:H142	25:c:6054:BCR:C36	2.37	0.53
4:d:5021:TRP:HZ3	17:x:5037:LEU:HD21	1.73	0.53
4:d:5214:HIS:HA	4:d:5217:THR:CG2	2.39	0.53
10:k:5034:ALA:O	10:k:5035:LEU:C	2.51	0.53
13:o:5125:ASP:CG	13:o:5126:GLY:N	2.66	0.53
18:y:5042:ARG:HB2	18:y:5043:ARG:HH11	1.70	0.53
1:A:140:ARG:NH2	26:A:1063:LHG:O4	2.41	0.53
1:A:172:MET:SD	1:A:179:THR:HG22	2.47	0.53
1:A:258:LEU:HA	4:D:132:ILE:HD12	1.90	0.53
3:C:59:LEU:CD2	22:K:1034:CLA:HBD	2.38	0.53
3:C:65:GLY:CA	3:C:119:LEU:HB2	2.39	0.53
6:F:34:LEU:HD12	9:J:24:ILE:HD13	1.90	0.53
7:H:40:VAL:O	7:H:44:ILE:HB	2.08	0.53
10:K:19:ASP:N	10:K:20:PRO:CD	2.72	0.53
16:V:159:GLY:HA2	16:V:163:TYR:HE1	1.72	0.53
18:Y:37:PHE:O	18:Y:41:VAL:HG22	2.08	0.53
18:Y:39:LEU:HD22	20:Z:28:ALA:HB1	1.91	0.53
20:Z:1:MET:SD	20:Z:4:LEU:HD23	2.48	0.53
1:a:5138:GLY:HA2	3:c:5455:PHE:CE2	2.43	0.53
2:b:5103:LEU:HG	2:b:5104:SER:N	2.23	0.53
2:b:5203:ILE:HG23	2:b:5204:ALA:N	2.24	0.53
2:b:5486:LEU:HD11	4:d:5239:GLN:HE22	1.74	0.53
22:b:6012:CLA:HBC3	22:b:6012:CLA:CHD	2.34	0.53
3:c:5322:GLN:HE22	3:c:5381:LYS:HA	1.73	0.53
4:d:5078:VAL:HG13	4:d:5078:VAL:O	2.09	0.53
4:d:5251:ARG:HB3	4:d:5251:ARG:HH11	1.73	0.53
4:d:5284:ILE:O	4:d:5287:VAL:HB	2.09	0.53
4:d:5308:ASP:C	4:d:5310:GLU:H	2.17	0.53
28:d:6059:MGE:H2B1	28:d:6059:MGE:O1G	2.09	0.53
6:f:5019:ARG:HH22	31:f:6040:HEM:CAC	2.17	0.53
7:h:5030:LEU:HD12	7:h:5033:VAL:CG2	2.35	0.53
10:k:5021:LEU:CD2	18:y:5024:MET:HG2	2.39	0.53
14:t:5018:PHE:CA	25:t:1046:BCR:C33	2.82	0.53
18:y:5043:ARG:NH2	18:y:5044:GLY:CA	2.72	0.53
1:A:201:GLY:C	1:A:203:ALA:N	2.65	0.53
2:B:25:MET:HG3	25:B:1045:BCR:C39	2.38	0.53
2:B:158:LEU:HB2	2:B:199:VAL:HG13	1.90	0.53
22:B:1022:CLA:C1	22:B:1022:CLA:H203	2.38	0.53
22:C:1025:CLA:CED	22:C:1025:CLA:CAD	2.86	0.53
22:C:1026:CLA:H93	22:C:1026:CLA:H121	1.90	0.53
4:D:209:LEU:HD23	4:D:209:LEU:C	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:10:PHE:CZ	6:F:19:ARG:HD2	2.43	0.53
6:F:24:HIS:O	6:F:28:VAL:HG23	2.09	0.53
31:F:1040:HEM:CMA	31:F:1040:HEM:CBA	2.60	0.53
16:V:148:GLU:CA	16:V:151:ILE:HD11	2.29	0.53
16:V:149:PRO:HB3	16:V:156:TRP:CD1	2.44	0.53
1:a:5076:ASN:CB	1:a:5079:THR:HG23	2.39	0.53
22:b:6012:CLA:HMD2	22:b:6020:CLA:C20	2.37	0.53
28:b:6060:MGE:H5A2	28:b:6060:MGE:H261	1.91	0.53
3:c:5050:LEU:HD23	3:c:5051:GLY:CA	2.39	0.53
3:c:5072:LEU:HD22	10:k:5011:LEU:HD23	1.91	0.53
3:c:5194:GLY:O	3:c:5195:ASP:HB2	2.09	0.53
3:c:5451:ALA:N	3:c:5456:GLU:HG2	2.22	0.53
4:d:5029:PHE:CE2	4:d:5031:GLY:CA	2.91	0.53
4:d:5043:LEU:HD13	25:d:6050:BCR:H322	1.91	0.53
4:d:5161:PRO:HB3	4:d:5170:ALA:HB2	1.90	0.53
4:d:5210:LEU:HD22	4:d:5274:VAL:HG21	1.90	0.53
5:e:5010:PHE:CZ	6:f:5019:ARG:HD2	2.43	0.53
7:h:5038:PHE:HB2	25:h:6049:BCR:C10	2.34	0.53
16:v:5068:VAL:HG13	16:v:5073:LYS:HE3	1.90	0.53
1:A:130:GLN:CG	1:A:144:CYS:HA	2.38	0.53
2:B:75:TRP:CD1	2:B:75:TRP:H	2.27	0.53
2:B:196:GLY:C	2:B:198:VAL:H	2.17	0.53
2:B:306:PRO:HG2	2:B:309:LEU:HB3	1.90	0.53
2:B:452:THR:HB	4:D:291:LEU:HD13	1.89	0.53
22:B:1010:CLA:O2D	22:B:1010:CLA:CGA	2.57	0.53
22:B:1011:CLA:C9	22:B:1011:CLA:CBB	2.86	0.53
3:C:84:GLN:O	3:C:86:LEU:N	2.41	0.53
3:C:160:ILE:HG22	22:C:1031:CLA:HMD1	1.89	0.53
3:C:171:GLY:O	3:C:172:ALA:C	2.52	0.53
3:C:290:VAL:HG21	3:C:426:LEU:HD23	1.91	0.53
4:D:58:TRP:NE1	5:E:64:PRO:HD2	2.21	0.53
4:D:209:LEU:O	4:D:213:ILE:HG22	2.09	0.53
28:D:1059:MGE:O1G	28:D:1059:MGE:H2B1	2.09	0.53
11:L:15:THR:HG22	11:L:16:SER:N	2.23	0.53
25:T:6048:BCR:H403	25:T:6048:BCR:C22	2.34	0.53
1:a:5045:THR:CG2	1:a:5046:ILE:N	2.71	0.53
1:a:5130:GLN:HG2	1:a:5144:CYS:HA	1.89	0.53
1:a:5269:ARG:CD	4:d:5222:LEU:HD11	2.28	0.53
24:a:6043:PQ9:H293	23:d:6039:PHO:HBA1	1.91	0.53
4:d:5118:GLY:O	4:d:5122:LEU:HD22	2.08	0.53
12:m:5035:SER:O	12:m:5036:SER:CB	2.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:5040:SER:HB3	16:v:5094:ASN:HD21	1.74	0.53
16:v:5106:THR:CA	16:v:5114:ILE:HG22	2.38	0.53
16:v:5149:PRO:HB3	16:v:5156:TRP:CD1	2.44	0.53
1:A:47:CYS:SG	1:A:115:ILE:HD11	2.49	0.53
1:A:52:PHE:C	1:A:71:LEU:HD12	2.33	0.53
1:A:305:SER:HB3	3:C:415:ASN:ND2	2.24	0.53
22:A:1007:CLA:HAC1	25:A:1044:BCR:C15	2.38	0.53
24:A:1043:PQ9:H453	24:A:1043:PQ9:C40	2.39	0.53
2:B:246:PHE:CD1	2:B:247:PHE:N	2.77	0.53
2:B:278:SER:HB3	2:B:281:GLN:CG	2.28	0.53
2:B:425:ILE:HG23	2:B:425:ILE:O	2.09	0.53
2:B:460:LEU:HG	29:B:1058:DGD:HAG3	1.91	0.53
22:B:1013:CLA:HBC3	22:B:1013:CLA:CMC	2.38	0.53
3:C:117:VAL:CG1	22:C:1027:CLA:H42	2.32	0.53
3:C:340:TYR:CD2	3:C:340:TYR:N	2.70	0.53
22:C:1031:CLA:HMA2	22:C:1031:CLA:C1	2.38	0.53
4:D:19:ASP:O	4:D:20:ASP:C	2.51	0.53
4:D:21:TRP:HZ3	17:X:37:LEU:HD21	1.73	0.53
4:D:249:ALA:HB1	24:D:1042:PQ9:C6	2.39	0.53
10:K:38:VAL:HG12	10:K:39:VAL:N	2.23	0.53
11:L:23:LEU:O	11:L:27:LEU:HG	2.09	0.53
16:V:39:ASN:ND2	16:V:40:SER:N	2.54	0.53
1:a:5058:VAL:HG21	1:a:5083:VAL:HG23	1.91	0.53
1:a:5225:ARG:HB2	2:b:5484:PRO:HD3	1.91	0.53
1:a:5279:ARG:O	1:a:5283:VAL:HG23	2.09	0.53
26:a:6063:LHG:H242	22:c:6032:CLA:OBD	2.09	0.53
2:b:5061:PHE:C	2:b:5064:PRO:HD2	2.34	0.53
2:b:5075:TRP:CD1	2:b:5075:TRP:H	2.27	0.53
22:b:6009:CLA:CGA	22:b:6009:CLA:CHA	2.87	0.53
3:c:5065:GLY:CA	3:c:5119:LEU:HB2	2.39	0.53
3:c:5185:LEU:HG	3:c:5199:ILE:CD1	2.37	0.53
3:c:5203:THR:H	3:c:5235:GLY:HA3	1.74	0.53
6:f:5024:HIS:O	6:f:5028:VAL:HG23	2.09	0.53
7:h:5030:LEU:HA	7:h:5033:VAL:HG22	1.91	0.53
7:h:5040:VAL:O	7:h:5044:ILE:HB	2.08	0.53
16:v:5118:HIS:CD2	16:v:5119:PRO:CD	2.85	0.53
16:v:5138:LEU:O	16:v:5139:VAL:C	2.50	0.53
16:v:5148:GLU:CA	16:v:5151:ILE:HD11	2.29	0.53
1:A:216:GLY:O	4:D:268:HIS:O	2.27	0.53
24:A:1043:PQ9:H293	23:D:1039:PHO:HBA1	1.91	0.53
2:B:26:HIS:NE2	22:B:1021:CLA:NB	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:61:PHE:C	2:B:64:PRO:HD2	2.34	0.53
22:B:1019:CLA:HMA2	22:B:1020:CLA:CMC	2.39	0.53
3:C:188:THR:HA	3:C:194:GLY:HA2	1.90	0.53
4:D:152:VAL:HG11	22:D:1004:CLA:H11	1.90	0.53
4:D:272:LEU:O	4:D:276:VAL:HG22	2.08	0.53
23:D:1039:PHO:C4	23:D:1039:PHO:CGA	2.87	0.53
7:H:31:MET:HB2	22:H:1017:CLA:C3D	2.38	0.53
13:O:214:LYS:HE3	13:O:251:MET:CG	2.34	0.53
18:Y:35:ILE:HD13	18:Y:35:ILE:C	2.34	0.53
18:Y:35:ILE:HD13	18:Y:36:ILE:N	2.24	0.53
18:Y:43:ARG:NH2	18:Y:44:GLY:CA	2.72	0.53
1:a:5134:SER:OG	1:a:5141:PRO:HB3	2.09	0.53
1:a:5285:PHE:HA	1:a:5288:LEU:HD12	1.90	0.53
1:a:5335:ASN:ND2	13:o:5182:PHE:CD1	2.77	0.53
2:b:5134:ASP:O	2:b:5138:MET:HB2	2.09	0.53
2:b:5460:LEU:HG	29:b:6058:DGD:HAG3	1.91	0.53
22:b:6020:CLA:C1	22:b:6023:CLA:O1A	2.55	0.53
4:d:5067:TYR:CE1	28:d:6059:MGE:H1G1	2.44	0.53
4:d:5209:LEU:O	4:d:5213:ILE:HG22	2.09	0.53
4:d:5213:ILE:HG23	4:d:5214:HIS:N	2.23	0.53
4:d:5275:PRO:O	4:d:5276:VAL:C	2.52	0.53
6:f:5022:ALA:C	6:f:5024:HIS:H	2.17	0.53
13:o:5224:SER:C	13:o:5225:LEU:HD12	2.33	0.53
25:t:1046:BCR:H23C	25:t:1046:BCR:C39	2.26	0.53
1:A:51:ALA:HA	1:A:55:ALA:HB2	1.91	0.53
1:A:146:ALA:HA	1:A:280:VAL:HG11	1.91	0.53
1:A:225:ARG:HB2	2:B:484:PRO:HD3	1.91	0.53
26:A:1063:LHG:H242	22:C:1032:CLA:OBD	2.09	0.53
2:B:30:VAL:O	2:B:31:ALA:C	2.50	0.53
2:B:62:VAL:HG13	22:B:1013:CLA:O1D	2.09	0.53
2:B:79:SER:OG	2:B:80:ILE:N	2.41	0.53
3:C:50:LEU:HD23	3:C:51:GLY:CA	2.39	0.53
3:C:88:LEU:C	3:C:90:PRO:HD2	2.34	0.53
4:D:36:LEU:HD21	4:D:124:GLY:HA3	1.91	0.53
4:D:43:LEU:HD13	25:D:1050:BCR:H322	1.91	0.53
4:D:182:LEU:N	4:D:182:LEU:HD23	2.24	0.53
24:D:1042:PQ9:C23	28:L:1061:MGE:CGB	2.87	0.53
5:E:43:ALA:O	5:E:46:VAL:HB	2.08	0.53
11:L:32:SER:OG	11:L:33:SER:N	2.42	0.53
12:M:9:ILE:HG23	12:M:13:LEU:CD2	2.39	0.53
13:O:63:THR:CG2	13:O:271:PRO:O	2.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5180:PHE:CE1	4:d:5192:THR:O	2.61	0.53
2:b:5025:MET:CG	25:b:6045:BCR:H401	2.35	0.53
2:b:5196:GLY:C	2:b:5198:VAL:H	2.17	0.53
2:b:5220:ARG:HD3	2:b:5221:PRO:CD	2.29	0.53
22:b:6011:CLA:CGA	22:b:6011:CLA:C4	2.87	0.53
22:b:6013:CLA:HMB1	22:b:6014:CLA:C1	2.39	0.53
4:d:5172:SER:O	4:d:5173:PHE:HB2	2.08	0.53
4:d:5274:VAL:HG12	4:d:5275:PRO:N	2.24	0.53
22:d:6005:CLA:CBA	24:d:6042:PQ9:H412	2.38	0.53
24:d:6042:PQ9:C23	28:l:6061:MGE:CGB	2.87	0.53
15:u:5021:TYR:HE2	15:u:5030:THR:HG1	1.55	0.53
1:A:17:PHE:CZ	8:I:18:LEU:HD11	2.44	0.52
1:A:40:THR:H	22:A:1007:CLA:HBB1	1.75	0.52
1:A:134:SER:OG	1:A:141:PRO:HB3	2.09	0.52
1:A:199:GLN:C	1:A:201:GLY:N	2.67	0.52
1:A:279:ARG:O	1:A:283:VAL:HG23	2.09	0.52
22:A:1007:CLA:H43	22:C:1029:CLA:H192	1.89	0.52
22:A:1007:CLA:H142	8:I:13:THR:HG21	1.91	0.52
2:B:45:PHE:HA	2:B:58:GLN:NE2	2.23	0.52
22:B:1012:CLA:CHD	22:B:1020:CLA:H201	2.37	0.52
22:B:1022:CLA:H43	22:B:1022:CLA:O2A	2.10	0.52
3:C:405:ASN:OD1	29:C:1057:DGD:HD61	2.09	0.52
3:C:417:VAL:HG11	16:V:68:VAL:HG12	1.86	0.52
22:C:1032:CLA:H62	22:C:1032:CLA:H112	1.91	0.52
4:D:67:TYR:CE1	28:D:1059:MGE:H1G1	2.44	0.52
4:D:302:GLU:OE1	13:O:186:LYS:CD	2.57	0.52
6:F:22:ALA:C	6:F:24:HIS:H	2.17	0.52
13:O:224:SER:C	13:O:225:LEU:HD12	2.33	0.52
25:T:6046:BCR:H23C	25:T:6046:BCR:C39	2.26	0.52
20:Z:5:PHE:CE1	20:Z:54:VAL:HG13	2.42	0.52
1:a:5058:VAL:HB	1:a:5083:VAL:HG21	1.90	0.52
1:a:5140:ARG:NH2	26:a:6063:LHG:O4	2.41	0.52
1:a:5179:THR:O	1:a:5180:PHE:C	2.52	0.52
1:a:5218:LEU:HD11	1:a:5255:PHE:HB2	1.90	0.52
2:b:5246:PHE:CD1	2:b:5247:PHE:N	2.77	0.52
22:b:6010:CLA:O2D	22:b:6010:CLA:CGA	2.57	0.52
22:b:6016:CLA:H193	22:h:6017:CLA:C19	2.15	0.52
22:b:6022:CLA:H43	22:b:6022:CLA:O2A	2.09	0.52
3:c:5049:LEU:HD11	22:c:6035:CLA:HMA3	1.91	0.52
3:c:5084:GLN:O	3:c:5086:LEU:N	2.42	0.52
3:c:5137:PRO:C	3:c:5139:THR:N	2.66	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5155:ASN:HA	3:c:5158:THR:CG2	2.29	0.52
4:d:5018:LEU:HD23	4:d:5032:TRP:CH2	2.44	0.52
4:d:5088:SER:C	4:d:5090:LEU:H	2.17	0.52
5:e:5010:PHE:O	5:e:5011:SER:C	2.51	0.52
12:m:5009:ILE:HG23	12:m:5013:LEU:CD2	2.39	0.52
18:y:5035:ILE:C	18:y:5035:ILE:HD13	2.34	0.52
18:y:5035:ILE:HD13	18:y:5036:ILE:N	2.24	0.52
1:A:223:LEU:CD2	4:D:265:ARG:HG2	2.35	0.52
1:A:224:ILE:HA	2:B:482:ILE:HG13	1.91	0.52
1:A:285:PHE:HA	1:A:288:LEU:HD12	1.90	0.52
1:A:297:LEU:HD12	3:C:428:THR:HG21	1.91	0.52
1:A:316:THR:HG22	4:D:75:THR:HG23	1.91	0.52
26:A:1063:LHG:H292	22:C:1032:CLA:C5	2.27	0.52
2:B:49:ASP:HB3	13:o:5083:LYS:HE3	1.89	0.52
2:B:106:LEU:HD12	25:B:1048:BCR:H352	1.91	0.52
2:B:275:TRP:HB3	2:B:318:ASN:HD22	1.75	0.52
22:B:1009:CLA:CGA	22:B:1009:CLA:CHA	2.87	0.52
25:B:1047:BCR:C30	25:B:1047:BCR:C37	2.61	0.52
4:D:32:TRP:HE3	4:D:35:ILE:HD11	1.72	0.52
4:D:189:HIS:O	4:D:190:ASN:C	2.52	0.52
4:D:210:LEU:HD22	4:D:274:VAL:HG21	1.90	0.52
5:E:13:ILE:CD1	5:E:19:TYR:HB2	2.40	0.52
5:E:17:VAL:HG13	9:J:8:ILE:HD11	1.91	0.52
7:H:35:MET:HA	25:H:1049:BCR:C33	2.39	0.52
25:H:1049:BCR:HC8	25:H:1049:BCR:C31	2.26	0.52
9:J:20:GLY:O	9:J:23:VAL:HG12	2.09	0.52
16:V:40:SER:HB3	16:V:94:ASN:HD21	1.74	0.52
18:Y:35:ILE:HD13	18:Y:36:ILE:HD12	1.91	0.52
1:a:5091:LEU:O	1:a:5092:HIS:C	2.50	0.52
1:a:5107:TYR:CD2	13:o:5097:VAL:HG11	2.44	0.52
1:a:5328:MET:CE	4:d:5183:LEU:HD13	2.39	0.52
25:a:6044:BCR:H331	25:a:6044:BCR:C34	2.39	0.52
22:b:6018:CLA:C10	22:b:6023:CLA:CBA	2.85	0.52
22:b:6019:CLA:CBA	22:b:6019:CLA:HBD	2.38	0.52
3:c:5050:LEU:CD2	3:c:5051:GLY:CA	2.87	0.52
3:c:5056:HIS:O	3:c:5060:ILE:HG23	2.08	0.52
4:d:5259:ILE:HG22	4:d:5260:ALA:N	2.23	0.52
5:e:5047:PHE:O	5:e:5049:THR:N	2.41	0.52
7:h:5012:ARG:HA	7:h:5012:ARG:HH11	1.74	0.52
15:u:5042:TYR:O	15:u:5043:PRO:C	2.50	0.52
18:y:5039:LEU:HD22	20:z:5028:ALA:HB1	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:140:ARG:HH11	1:A:140:ARG:HB2	1.74	0.52
1:A:269:ARG:CD	4:D:222:LEU:HD11	2.28	0.52
1:A:283:VAL:HG21	23:A:1038:PHO:HMC3	1.90	0.52
1:A:335:ASN:ND2	13:O:182:PHE:CD1	2.77	0.52
2:B:486:LEU:HD11	4:D:239:GLN:HE22	1.74	0.52
3:C:165:LEU:HB2	3:C:248:GLY:HA3	1.90	0.52
3:C:176:VAL:O	3:C:180:MET:HG3	2.08	0.52
3:C:185:LEU:HG	3:C:199:ILE:CD1	2.37	0.52
3:C:314:ALA:HB1	3:C:351:PHE:CD1	2.45	0.52
3:C:315:MET:O	3:C:319:ILE:HG13	2.10	0.52
22:C:1033:CLA:C14	22:C:1036:CLA:C2D	2.87	0.52
4:D:82:ALA:C	4:D:84:SER:H	2.16	0.52
4:D:118:GLY:O	4:D:122:LEU:HD22	2.09	0.52
4:D:172:SER:O	4:D:173:PHE:HB2	2.08	0.52
4:D:265:ARG:O	4:D:265:ARG:HD3	2.10	0.52
4:D:275:PRO:O	4:D:276:VAL:C	2.52	0.52
13:O:92:VAL:HG11	13:O:137:ALA:HB2	1.90	0.52
16:V:39:ASN:C	16:V:41:GLU:N	2.67	0.52
1:a:5017:PHE:CZ	8:i:5018:LEU:HD11	2.44	0.52
1:a:5140:ARG:HH11	1:a:5140:ARG:HB2	1.74	0.52
1:a:5288:LEU:O	1:a:5292:THR:N	2.42	0.52
24:a:6043:PQ9:H453	24:a:6043:PQ9:C40	2.39	0.52
2:b:5475:PHE:C	2:b:5477:ASP:H	2.16	0.52
3:c:5369:LEU:HD13	3:c:5380:ILE:CD1	2.37	0.52
22:c:6033:CLA:C14	22:c:6036:CLA:C2D	2.87	0.52
29:c:6056:DGD:HBF1	29:c:6056:DGD:C8B	2.39	0.52
5:e:5043:ALA:O	5:e:5046:VAL:HB	2.08	0.52
14:t:5019:PHE:N	14:t:5019:PHE:CD2	2.77	0.52
20:z:5053:VAL:C	20:z:5055:GLY:H	2.17	0.52
1:A:37:MET:O	1:A:38:ILE:C	2.51	0.52
1:A:296:ASN:HB3	3:C:401:LEU:HD13	1.91	0.52
2:B:25:MET:CG	25:B:1045:BCR:H401	2.35	0.52
2:B:25:MET:CG	25:B:1045:BCR:H391	2.37	0.52
2:B:169:SER:CB	2:B:176:GLY:HA2	2.17	0.52
3:C:50:LEU:CD2	3:C:51:GLY:CA	2.87	0.52
3:C:223:TRP:NE1	3:C:224:ILE:CG1	2.69	0.52
3:C:223:TRP:HE1	3:C:224:ILE:CG1	2.22	0.52
22:C:1029:CLA:H11	22:C:1029:CLA:CHA	2.39	0.52
22:C:1035:CLA:HMC3	22:K:1034:CLA:HMB3	1.92	0.52
29:C:1057:DGD:CGA	28:D:1059:MGE:H232	2.39	0.52
4:D:33:SER:O	4:D:34:GLY:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:D:1042:PQ9:H252	28:L:1061:MGE:H261	1.92	0.52
10:K:14:ALA:H	20:Z:62:VAL:HG11	1.73	0.52
11:L:29:LEU:CB	14:T:9:ILE:HG21	2.32	0.52
15:U:16:LYS:HG2	15:U:21:TYR:HD1	1.74	0.52
16:V:144:HIS:CD2	16:V:148:GLU:HG3	2.44	0.52
17:X:36:VAL:O	17:X:39:ALA:HB3	2.10	0.52
20:Z:53:VAL:C	20:Z:55:GLY:H	2.17	0.52
1:a:5047:CYS:SG	1:a:5115:ILE:HD11	2.49	0.52
1:a:5181:ASN:HA	4:d:5318:ASN:OD1	2.09	0.52
1:a:5258:LEU:HA	4:d:5132:ILE:HD12	1.90	0.52
1:a:5305:SER:HB3	3:c:5415:ASN:ND2	2.24	0.52
2:b:5062:VAL:HG13	22:b:6013:CLA:O1D	2.09	0.52
2:b:5265:ILE:H	2:b:5265:ILE:CD1	2.05	0.52
3:c:5088:LEU:C	3:c:5090:PRO:HD2	2.34	0.52
3:c:5165:LEU:HB2	3:c:5248:GLY:HA3	1.90	0.52
3:c:5290:VAL:HG21	3:c:5426:LEU:HD23	1.91	0.52
22:c:6035:CLA:HMC3	22:k:6034:CLA:HMB3	1.91	0.52
4:d:5033:SER:O	4:d:5034:GLY:C	2.52	0.52
4:d:5036:LEU:HD21	4:d:5124:GLY:HA3	1.91	0.52
4:d:5250:ASN:C	4:d:5252:PHE:H	2.17	0.52
23:d:6039:PHO:C4	23:d:6039:PHO:CGA	2.87	0.52
13:o:5082:PRO:HG2	13:o:5089:ALA:HB1	1.87	0.52
25:t:1046:BCR:C23	25:t:1046:BCR:C39	2.83	0.52
16:v:5119:PRO:HB2	16:v:5130:MET:HE2	1.92	0.52
16:v:5144:HIS:CD2	16:v:5148:GLU:HG3	2.44	0.52
25:A:1044:BCR:H331	25:A:1044:BCR:C34	2.39	0.52
2:B:190:PHE:CZ	22:B:1009:CLA:HMA1	2.45	0.52
2:B:235:GLU:HG3	2:B:473:THR:OG1	2.09	0.52
2:B:354:LEU:CD2	2:B:378:LYS:HB2	2.40	0.52
2:B:372:ASP:OD2	2:B:376:VAL:HG23	2.10	0.52
2:B:463:PHE:C	2:B:463:PHE:CD2	2.87	0.52
3:C:209:ILE:HD13	3:C:236:GLY:HA2	1.90	0.52
22:C:1027:CLA:HBC3	22:C:1027:CLA:CMC	2.39	0.52
25:C:1052:BCR:C38	25:C:1052:BCR:H372	2.23	0.52
29:C:1056:DGD:HBF1	29:C:1056:DGD:C8B	2.39	0.52
4:D:185:PHE:CE1	22:D:1004:CLA:HMD2	2.44	0.52
4:D:214:HIS:HA	4:D:217:THR:CG2	2.40	0.52
4:D:284:ILE:O	4:D:287:VAL:HB	2.09	0.52
7:H:30:LEU:HA	7:H:33:VAL:HG22	1.91	0.52
10:K:21:LEU:CD2	18:Y:24:MET:HG2	2.39	0.52
12:M:34:LYS:HE2	11:l:5009:PRO:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:T:6046:BCR:H391	25:b:6047:BCR:H14C	1.90	0.52
15:U:50:VAL:C	15:U:51:LYS:O	2.46	0.52
16:V:106:THR:CA	16:V:114:ILE:HG22	2.38	0.52
16:V:108:TYR:O	16:V:108:TYR:HD2	1.93	0.52
16:V:118:HIS:CD2	16:V:119:PRO:CD	2.85	0.52
1:a:5246:TYR:CD1	1:a:5246:TYR:N	2.73	0.52
1:a:5316:THR:HG22	4:d:5075:THR:HG23	1.91	0.52
1:a:5331:MET:HA	1:a:5331:MET:HE3	1.91	0.52
22:a:6003:CLA:HED2	22:a:6003:CLA:CBA	2.32	0.52
2:b:5024:LEU:HD22	2:b:5114:HIS:HD2	1.75	0.52
2:b:5215:PHE:C	2:b:5215:PHE:CD2	2.88	0.52
22:b:6016:CLA:H51	22:h:6017:CLA:H91	1.76	0.52
22:b:6020:CLA:C16	22:b:6020:CLA:H111	2.39	0.52
3:c:5265:ILE:CG2	3:c:5270:ALA:HB1	2.39	0.52
4:d:5186:GLN:H	22:d:6004:CLA:HBC1	1.75	0.52
23:d:6039:PHO:H42	23:d:6039:PHO:CGA	2.39	0.52
5:e:5059:GLU:OE1	5:e:5059:GLU:HA	2.09	0.52
7:h:5038:PHE:O	7:h:5041:PHE:N	2.40	0.52
10:k:5019:ASP:N	10:k:5020:PRO:CD	2.72	0.52
25:k:6052:BCR:C34	25:k:6051:BCR:HC21	2.39	0.52
16:v:5045:ILE:H	16:v:5045:ILE:CD1	2.06	0.52
18:y:5035:ILE:HD13	18:y:5036:ILE:HD12	1.91	0.52
1:A:76:ASN:CB	1:A:79:THR:HG23	2.39	0.52
1:A:181:ASN:HA	4:D:318:ASN:OD1	2.09	0.52
1:A:328:MET:CE	4:D:183:LEU:HD13	2.39	0.52
2:B:15:ASP:OD2	2:B:18:ARG:HG3	2.09	0.52
2:B:134:ASP:O	2:B:138:MET:HB2	2.09	0.52
2:B:302:TRP:C	2:B:304:ALA:H	2.16	0.52
2:B:483:ASP:O	2:B:485:GLU:N	2.43	0.52
22:B:1011:CLA:CGA	22:B:1011:CLA:C4	2.87	0.52
25:B:1045:BCR:C38	25:B:1045:BCR:C23	2.71	0.52
3:C:466:VAL:C	3:C:468:SER:H	2.16	0.52
22:D:1005:CLA:O1A	22:D:1005:CLA:NA	2.43	0.52
23:D:1039:PHO:H42	23:D:1039:PHO:CGA	2.39	0.52
6:F:38:ALA:HA	9:J:27:LEU:HD21	1.91	0.52
13:O:250:ASP:O	13:O:252:GLY:N	2.35	0.52
15:U:16:LYS:NZ	15:U:85:THR:HB	2.25	0.52
1:a:5017:PHE:O	1:a:5021:VAL:HG23	2.10	0.52
1:a:5040:THR:H	22:a:6007:CLA:HBB1	1.75	0.52
1:a:5180:PHE:CZ	4:d:5192:THR:O	2.63	0.52
2:b:5030:VAL:CG1	22:b:6013:CLA:HHD	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5067:ALA:HB3	2:b:5267:LEU:CD1	2.40	0.52
2:b:5235:GLU:HG3	2:b:5473:THR:OG1	2.09	0.52
22:b:6021:CLA:HED3	22:b:6021:CLA:HMA3	1.91	0.52
22:b:6022:CLA:C3D	22:b:6022:CLA:C20	2.88	0.52
3:c:5146:PHE:C	3:c:5147:PHE:CG	2.85	0.52
3:c:5223:TRP:NE1	3:c:5224:ILE:CG1	2.69	0.52
3:c:5328:VAL:HG12	3:c:5340:TYR:HB2	1.91	0.52
22:c:6028:CLA:H91	29:c:6056:DGD:CAB	2.36	0.52
4:d:5182:LEU:N	4:d:5182:LEU:HD23	2.24	0.52
4:d:5185:PHE:CE1	22:d:6004:CLA:HMD2	2.44	0.52
24:d:6042:PQ9:H252	28:l:6061:MGE:H261	1.92	0.52
13:o:5055:ALA:HA	13:o:5162:ILE:O	2.10	0.52
13:o:5063:THR:CG2	13:o:5271:PRO:O	2.57	0.52
15:u:5043:PRO:HB2	16:v:5109:ASP:HB2	1.91	0.52
1:A:156:ALA:CB	1:A:160:ILE:HD12	2.40	0.52
1:A:256:GLY:O	1:A:261:GLN:HA	2.10	0.52
22:A:1006:CLA:CAB	22:D:1004:CLA:H51	2.37	0.52
2:B:249:ALA:O	2:B:251:VAL:N	2.42	0.52
22:B:1014:CLA:CHA	22:B:1014:CLA:CBA	2.78	0.52
22:B:1022:CLA:C9	22:B:1022:CLA:C13	2.78	0.52
22:B:1022:CLA:OBD	22:B:1022:CLA:CED	2.55	0.52
3:C:62:PHE:CE2	10:K:29:PRO:HD3	2.45	0.52
3:C:87:ILE:HG22	3:C:426:LEU:CD1	2.40	0.52
25:T:6046:BCR:H351	25:b:6047:BCR:H23C	1.92	0.52
25:T:6048:BCR:H352	2:b:5106:LEU:HD12	1.91	0.52
16:V:34:LEU:CD2	16:V:47:LEU:HB3	2.30	0.52
16:V:160:LYS:N	16:V:163:TYR:CD1	2.78	0.52
1:a:5156:ALA:CB	1:a:5160:ILE:HD12	2.40	0.52
1:a:5214:MET:O	1:a:5217:SER:N	2.43	0.52
1:a:5215:HIS:HE2	1:a:5272:HIS:CD2	2.28	0.52
2:b:5026:HIS:NE2	22:b:6021:CLA:NB	2.57	0.52
2:b:5363:PHE:HD2	2:b:5363:PHE:H	1.57	0.52
2:b:5446:SER:O	2:b:5447:PRO:C	2.52	0.52
3:c:5048:LYS:CG	3:c:5049:LEU:HD12	2.38	0.52
3:c:5075:PHE:CZ	3:c:5105:VAL:HG11	2.37	0.52
3:c:5117:VAL:HG21	22:c:6027:CLA:H43	1.90	0.52
3:c:5158:THR:HG23	3:c:5159:THR:N	2.25	0.52
4:d:5082:ALA:C	4:d:5084:SER:H	2.16	0.52
25:h:6049:BCR:C23	25:h:6049:BCR:H393	2.30	0.52
8:i:5008:VAL:O	8:i:5009:TYR:C	2.52	0.52
13:o:5097:VAL:HG12	13:o:5098:THR:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5223:ILE:HG22	13:o:5243:SER:CB	2.36	0.52
16:v:5108:TYR:HD2	16:v:5108:TYR:O	1.93	0.52
1:A:272:HIS:O	4:D:215:GLY:CA	2.58	0.52
1:A:279:ARG:NH2	1:A:283:VAL:CG2	2.73	0.52
1:A:288:LEU:O	1:A:292:THR:N	2.42	0.52
25:A:1044:BCR:H392	25:A:1044:BCR:C22	2.35	0.52
2:B:5:TRP:CZ2	28:L:1061:MGE:C2A	2.80	0.52
2:B:65:PHE:C	2:B:67:ALA:N	2.67	0.52
2:B:203:ILE:HG23	2:B:204:ALA:N	2.24	0.52
2:B:446:SER:O	2:B:447:PRO:C	2.52	0.52
3:C:414:ILE:HG22	3:C:415:ASN:N	2.25	0.52
25:D:1050:BCR:H331	25:D:1050:BCR:C8	2.28	0.52
7:H:47:GLU:O	7:H:53:LEU:N	2.40	0.52
15:U:43:PRO:HB2	16:V:109:ASP:HB2	1.91	0.52
1:a:5180:PHE:O	1:a:5184:ILE:HD12	2.09	0.52
2:b:5079:SER:OG	2:b:5080:ILE:N	2.41	0.52
2:b:5111:ALA:C	2:b:5113:TRP:N	2.68	0.52
2:b:5365:SER:O	2:b:5366:PHE:HB2	2.10	0.52
2:b:5374:ASN:N	2:b:5374:ASN:ND2	2.58	0.52
2:b:5425:ILE:O	2:b:5425:ILE:HG23	2.09	0.52
3:c:5314:ALA:HB1	3:c:5351:PHE:CD1	2.45	0.52
4:d:5251:ARG:NH2	4:d:5255:GLN:NE2	2.58	0.52
5:e:5013:ILE:CD1	5:e:5019:TYR:HB2	2.40	0.52
28:l:6061:MGE:H7B1	28:l:6061:MGE:H3B2	1.92	0.52
13:o:5146:PHE:CE2	13:o:5261:ILE:HG21	2.43	0.52
16:v:5092:ARG:CG	16:v:5092:ARG:NH1	2.67	0.52
16:v:5160:LYS:N	16:v:5163:TYR:CD1	2.78	0.52
16:v:5162:TYR:O	16:v:5163:TYR:C	2.53	0.52
1:A:91:LEU:O	1:A:92:HIS:C	2.50	0.52
2:B:215:PHE:C	2:B:215:PHE:CD2	2.88	0.52
25:C:1052:BCR:C34	25:K:1051:BCR:HC21	2.39	0.52
4:D:250:ASN:C	4:D:252:PHE:H	2.17	0.52
5:E:59:GLU:OE1	5:E:59:GLU:HA	2.09	0.52
6:F:32:PHE:O	6:F:32:PHE:HD1	1.93	0.52
22:K:1034:CLA:H42	22:K:1034:CLA:HBA1	1.92	0.52
13:O:82:PRO:HG2	13:O:89:ALA:HB1	1.87	0.52
1:a:5219:VAL:HG11	4:d:5268:HIS:ND1	2.24	0.52
1:a:5297:LEU:HD12	3:c:5428:THR:HG21	1.91	0.52
22:b:6015:CLA:CBC	25:b:6047:BCR:H10C	2.40	0.52
3:c:5033:PHE:CZ	3:c:5040:ALA:HB1	2.45	0.52
3:c:5296:VAL:HG23	3:c:5297:TYR:HD1	1.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5265:ARG:O	4:d:5265:ARG:HD3	2.10	0.52
6:f:5032:PHE:O	6:f:5032:PHE:HD1	1.92	0.52
7:h:5035:MET:HA	25:h:6049:BCR:C33	2.39	0.52
11:l:5008:GLN:HE21	11:l:5008:GLN:N	2.07	0.52
11:l:5023:LEU:O	11:l:5027:LEU:HG	2.09	0.52
16:v:5119:PRO:CB	16:v:5130:MET:HE2	2.39	0.52
1:A:37:MET:HE1	1:A:129:ARG:CZ	2.40	0.52
1:A:58:VAL:HG21	1:A:83:VAL:HG23	1.91	0.52
1:A:156:ALA:HB1	1:A:290:ILE:HG21	1.90	0.52
2:B:19:LEU:O	2:B:22:ALA:HB3	2.10	0.52
2:B:67:ALA:HB3	2:B:267:LEU:CD1	2.40	0.52
2:B:365:SER:O	2:B:366:PHE:HB2	2.10	0.52
2:B:413:ASP:O	2:B:413:ASP:OD1	2.28	0.52
22:B:1016:CLA:O1A	22:B:1016:CLA:C1A	2.58	0.52
22:B:1020:CLA:C16	22:B:1020:CLA:H111	2.39	0.52
22:B:1021:CLA:HED3	22:B:1021:CLA:HMA3	1.91	0.52
28:B:1060:MGE:H5A2	28:B:1060:MGE:H261	1.91	0.52
3:C:171:GLY:C	3:C:174:LEU:H	2.18	0.52
3:C:194:GLY:O	3:C:195:ASP:HB2	2.09	0.52
3:C:200:THR:O	3:C:202:PRO:HD3	2.10	0.52
4:D:55:VAL:HG12	4:D:56:THR:O	2.10	0.52
4:D:78:VAL:HG12	4:D:173:PHE:CB	2.40	0.52
4:D:88:SER:C	4:D:90:LEU:H	2.17	0.52
22:D:1008:CLA:CBA	22:D:1008:CLA:HMA2	2.02	0.52
7:H:27:THR:HB	22:H:1017:CLA:OBD	2.10	0.52
13:O:215:ARG:HG2	13:O:215:ARG:NH1	2.24	0.52
1:a:5156:ALA:HB1	1:a:5290:ILE:HG21	1.90	0.52
1:a:5189:GLU:C	3:c:5411:ALA:HB2	2.35	0.52
2:b:5015:ASP:OD2	2:b:5018:ARG:HG3	2.09	0.52
2:b:5152:GLY:O	2:b:5156:PHE:CB	2.57	0.52
2:b:5302:TRP:CE3	2:b:5305:ILE:HD12	2.45	0.52
2:b:5463:PHE:CD2	2:b:5463:PHE:C	2.87	0.52
22:b:6016:CLA:C9	22:d:6008:CLA:H201	2.40	0.52
3:c:5062:PHE:CE2	10:k:5029:PRO:HD3	2.45	0.52
3:c:5087:ILE:HG22	3:c:5426:LEU:CD1	2.40	0.52
3:c:5135:ARG:NH1	20:z:5033:TRP:CE3	2.76	0.52
3:c:5171:GLY:C	3:c:5174:LEU:H	2.18	0.52
3:c:5405:ASN:OD1	29:c:6057:DGD:HD61	2.09	0.52
4:d:5055:VAL:HG12	4:d:5056:THR:O	2.10	0.52
4:d:5198:MET:SD	22:d:6005:CLA:HED2	2.50	0.52
5:e:5017:VAL:HG13	9:j:5008:ILE:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:5023:HIS:HB3	5:e:5027:ILE:CD1	2.40	0.52
13:o:5063:THR:HG23	13:o:5064:TYR:N	2.25	0.52
16:v:5090:PRO:HD2	16:v:5092:ARG:CZ	2.40	0.52
1:A:50:ILE:HG21	25:A:1044:BCR:H402	1.93	0.51
1:A:92:HIS:CD2	3:C:219:GLY:O	2.64	0.51
1:A:179:THR:O	1:A:180:PHE:C	2.52	0.51
1:A:189:GLU:C	3:C:411:ALA:HB2	2.35	0.51
2:B:142:HIS:HA	2:B:145:LEU:HD12	1.92	0.51
2:B:475:PHE:C	2:B:477:ASP:H	2.16	0.51
3:C:79:LYS:HD3	3:C:84:GLN:HG2	1.92	0.51
22:C:1027:CLA:HAA1	22:C:1027:CLA:HBD	1.92	0.51
4:D:23:LYS:NZ	4:D:135:LEU:HD21	2.25	0.51
4:D:251:ARG:NH2	4:D:255:GLN:NE2	2.58	0.51
4:D:267:LEU:C	4:D:269:PHE:H	2.18	0.51
4:D:308:ASP:C	4:D:310:GLU:H	2.17	0.51
5:E:13:ILE:HA	5:E:16:SER:HB3	1.92	0.51
5:E:28:PRO:HA	5:E:31:PHE:HB3	1.92	0.51
10:K:31:LEU:HD13	25:K:1051:BCR:H14C	1.91	0.51
22:K:1034:CLA:CHD	22:K:1034:CLA:CBC	2.84	0.51
13:O:55:ALA:HA	13:O:162:ILE:O	2.10	0.51
1:a:5201:GLY:C	1:a:5203:ALA:N	2.65	0.51
1:a:5333:GLU:OE1	3:c:5354:GLU:OE1	2.28	0.51
2:b:5249:ALA:O	2:b:5251:VAL:N	2.42	0.51
2:b:5256:MET:HE1	2:b:5268:PHE:CE2	2.45	0.51
22:b:6010:CLA:H151	29:b:6058:DGD:C8A	2.38	0.51
22:b:6019:CLA:HMA2	22:b:6020:CLA:CMC	2.39	0.51
25:b:6047:BCR:H403	25:b:6047:BCR:C22	2.34	0.51
3:c:5056:HIS:CE1	22:c:6033:CLA:HHB	2.44	0.51
3:c:5271:TYR:CE1	22:c:6031:CLA:CAC	2.83	0.51
3:c:5414:ILE:HG22	3:c:5415:ASN:N	2.25	0.51
22:c:6035:CLA:HBD	22:c:6035:CLA:HAA1	1.92	0.51
5:e:5072:ALA:O	5:e:5076:VAL:HG22	2.11	0.51
15:u:5016:LYS:NZ	15:u:5085:THR:HB	2.25	0.51
1:A:86:SER:C	1:A:88:ALA:H	2.18	0.51
1:A:180:PHE:O	1:A:184:ILE:HD12	2.09	0.51
2:B:111:ALA:C	2:B:113:TRP:N	2.68	0.51
2:B:192:PRO:HD2	7:H:60:VAL:HG12	1.92	0.51
2:B:310:ALA:O	2:B:313:ASP:N	2.41	0.51
2:B:362:PHE:HZ	27:D:1068:IOD:I	2.63	0.51
22:B:1015:CLA:CBC	25:B:1047:BCR:H10C	2.40	0.51
22:B:1019:CLA:H93	28:L:1061:MGE:C8A	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1022:CLA:C3D	22:B:1022:CLA:C20	2.88	0.51
3:C:33:PHE:CZ	3:C:40:ALA:HB1	2.45	0.51
22:C:1035:CLA:HBD	22:C:1035:CLA:HAA1	1.92	0.51
25:C:1054:BCR:H23C	25:C:1054:BCR:H402	1.73	0.51
4:D:274:VAL:HG12	4:D:275:PRO:N	2.24	0.51
8:I:27:ASP:N	8:I:28:PRO:CD	2.74	0.51
13:O:148:VAL:HG23	13:O:151:LEU:HD13	1.92	0.51
15:U:45:LEU:HD21	15:U:75:LEU:HD11	1.92	0.51
1:a:5037:MET:O	1:a:5038:ILE:C	2.51	0.51
1:a:5050:ILE:HG21	25:a:6044:BCR:H402	1.92	0.51
1:a:5081:ALA:HA	1:a:5175:GLY:HA3	1.92	0.51
1:a:5146:ALA:HA	1:a:5280:VAL:HG11	1.91	0.51
1:a:5148:SER:OG	1:a:5149:ALA:N	2.43	0.51
2:b:5019:LEU:O	2:b:5022:ALA:HB3	2.09	0.51
2:b:5271:THR:O	2:b:5274:GLN:HB2	2.10	0.51
2:b:5413:ASP:OD1	2:b:5413:ASP:O	2.28	0.51
22:b:6010:CLA:H112	22:b:6010:CLA:C17	2.36	0.51
22:b:6019:CLA:HBB1	22:b:6019:CLA:CHC	2.37	0.51
3:c:5079:LYS:HD3	3:c:5084:GLN:HG2	1.92	0.51
3:c:5275:SER:C	22:c:6033:CLA:HED1	2.35	0.51
22:c:6027:CLA:HBC3	22:c:6027:CLA:CMC	2.39	0.51
7:h:5027:THR:HB	22:h:6017:CLA:OBD	2.10	0.51
22:k:6034:CLA:H42	22:k:6034:CLA:CBA	2.41	0.51
12:m:5011:THR:O	12:m:5014:PHE:HB3	2.10	0.51
13:o:5137:ALA:O	13:o:5138:GLY:O	2.28	0.51
14:t:5011:ALA:CB	25:t:1046:BCR:H362	2.40	0.51
15:u:5044:THR:O	15:u:5045:LEU:C	2.51	0.51
1:A:75:ASN:HD22	1:A:80:GLY:HA2	1.76	0.51
1:A:107:TYR:CD2	13:O:97:VAL:HG11	2.44	0.51
1:A:180:PHE:CZ	4:D:192:THR:O	2.63	0.51
1:A:279:ARG:CZ	1:A:283:VAL:HG22	2.40	0.51
1:A:335:ASN:OD1	1:A:335:ASN:N	2.43	0.51
22:A:1006:CLA:HAA2	29:C:1057:DGD:CFB	2.40	0.51
2:B:14:ASN:O	2:B:15:ASP:HB3	2.09	0.51
2:B:30:VAL:CG1	22:B:1013:CLA:HHD	2.40	0.51
2:B:61:PHE:HB2	22:B:1015:CLA:HMA1	1.93	0.51
2:B:125:ASP:HA	7:H:12:ARG:HH21	1.75	0.51
2:B:302:TRP:C	2:B:304:ALA:N	2.66	0.51
3:C:72:LEU:HD22	10:K:11:LEU:HD23	1.91	0.51
4:D:126:MET:CE	4:D:146:PHE:HB3	2.40	0.51
4:D:214:HIS:CE1	4:D:268:HIS:CE1	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:72:ALA:O	5:E:76:VAL:HG22	2.11	0.51
11:L:26:VAL:O	11:L:29:LEU:N	2.43	0.51
1:a:5310:LYS:H	16:v:5028:GLU:HB2	1.76	0.51
2:b:5005:TRP:CD1	2:b:5005:TRP:N	2.76	0.51
2:b:5024:LEU:HB2	22:b:6023:CLA:HED1	1.92	0.51
2:b:5065:PHE:HZ	22:b:6012:CLA:HMA3	1.72	0.51
3:c:5318:LEU:HD11	3:c:5380:ILE:HG12	1.92	0.51
4:d:5264:LYS:HB3	4:d:5268:HIS:CE1	2.45	0.51
8:i:5027:ASP:N	8:i:5028:PRO:CD	2.74	0.51
9:j:5008:ILE:H	9:j:5008:ILE:HD12	1.76	0.51
9:j:5020:GLY:O	9:j:5023:VAL:HG12	2.09	0.51
15:u:5058:VAL:HB	15:u:5059:GLU:OE2	2.11	0.51
16:v:5151:ILE:HD13	16:v:5151:ILE:N	2.23	0.51
1:A:37:MET:HE1	1:A:129:ARG:NH2	2.26	0.51
1:A:151:LEU:HG	1:A:155:PHE:CD2	2.44	0.51
1:A:310:LYS:H	16:V:28:GLU:HB2	1.76	0.51
26:A:1063:LHG:C31	22:C:1032:CLA:H71	2.41	0.51
2:B:99:ALA:O	2:B:102:VAL:CG2	2.59	0.51
2:B:121:GLU:CG	7:H:12:ARG:HD3	2.40	0.51
2:B:152:GLY:O	2:B:156:PHE:CB	2.57	0.51
2:B:256:MET:HE1	2:B:268:PHE:CE2	2.45	0.51
22:B:1013:CLA:CMB	22:B:1014:CLA:C1	2.88	0.51
28:B:1060:MGE:H6B1	4:D:280:TRP:CD1	2.46	0.51
3:C:229:ASN:N	3:C:229:ASN:ND2	2.44	0.51
22:C:1026:CLA:C2B	22:C:1028:CLA:CBB	2.88	0.51
4:D:118:GLY:HA2	23:D:1039:PHO:H71	1.93	0.51
4:D:126:MET:HE3	4:D:146:PHE:CD2	2.42	0.51
4:D:154:VAL:HA	4:D:158:LEU:HD13	1.92	0.51
4:D:167:TRP:O	4:D:170:ALA:HB3	2.10	0.51
4:D:186:GLN:H	22:D:1004:CLA:HBC1	1.75	0.51
4:D:188:PHE:CE2	4:D:326:ARG:HA	2.46	0.51
1:a:5029:TYR:H	4:d:5255:GLN:HB3	1.75	0.51
1:a:5120:LEU:HD11	1:a:5155:PHE:CE1	2.46	0.51
1:a:5151:LEU:HG	1:a:5155:PHE:CD2	2.44	0.51
22:a:6007:CLA:H43	22:c:6029:CLA:H192	1.89	0.51
2:b:5025:MET:HG3	25:b:6045:BCR:C39	2.38	0.51
3:c:5315:MET:O	3:c:5319:ILE:HG13	2.10	0.51
22:c:6026:CLA:C2B	22:c:6028:CLA:CBB	2.88	0.51
22:c:6029:CLA:H11	22:c:6029:CLA:CHA	2.39	0.51
4:d:5067:TYR:CD1	4:d:5076:VAL:HG11	2.46	0.51
4:d:5189:HIS:O	4:d:5190:ASN:C	2.52	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5249:ALA:HB1	24:d:6042:PQ9:C6	2.39	0.51
24:d:6042:PQ9:C24	28:l:6061:MGE:CGB	2.81	0.51
5:e:5013:ILE:HA	5:e:5016:SER:HB3	1.92	0.51
5:e:5084:LYS:NZ	16:v:5027:ALA:O	2.43	0.51
8:i:5011:VAL:O	8:i:5015:PHE:CD1	2.64	0.51
10:k:5021:LEU:HD21	18:y:5024:MET:HE3	1.93	0.51
10:k:5031:LEU:HD13	25:k:6051:BCR:H14C	1.91	0.51
11:l:5026:VAL:O	11:l:5029:LEU:N	2.44	0.51
18:y:5032:GLY:O	18:y:5035:ILE:CG2	2.53	0.51
1:A:17:PHE:O	1:A:21:VAL:HG23	2.10	0.51
1:A:81:ALA:HA	1:A:175:GLY:HA3	1.92	0.51
1:A:181:ASN:HD22	4:D:314:PHE:HD2	1.56	0.51
1:A:331:MET:HA	1:A:331:MET:HE3	1.91	0.51
2:B:368:VAL:HG22	2:B:381:ILE:HG13	1.93	0.51
22:B:1022:CLA:HBC1	12:M:21:PHE:CG	2.46	0.51
3:C:109:PHE:HB3	3:C:110:PRO:CD	2.40	0.51
3:C:206:PRO:HG2	3:C:207:ARG:NH1	2.26	0.51
3:C:290:VAL:HG13	3:C:427:ALA:HB2	1.93	0.51
22:C:1028:CLA:H91	29:C:1056:DGD:CAB	2.36	0.51
22:C:1028:CLA:C10	29:C:1056:DGD:HAS2	2.36	0.51
22:C:1030:CLA:H171	22:C:1030:CLA:C14	2.21	0.51
4:D:198:MET:SD	22:D:1005:CLA:HED2	2.50	0.51
28:D:1062:MGE:O1B	28:D:1062:MGE:C3G	2.34	0.51
22:K:1034:CLA:H42	22:K:1034:CLA:CBA	2.41	0.51
28:L:1061:MGE:H7B1	28:L:1061:MGE:H3B2	1.92	0.51
13:O:63:THR:HG23	13:O:64:TYR:N	2.25	0.51
14:T:19:PHE:CD2	14:T:19:PHE:N	2.77	0.51
25:T:6048:BCR:H392	25:T:6048:BCR:C22	2.35	0.51
20:Z:20:VAL:HG12	20:Z:21:ILE:N	2.26	0.51
20:Z:23:VAL:HB	20:Z:24:PRO:HD3	1.91	0.51
1:a:5076:ASN:HB2	1:a:5079:THR:HG23	1.91	0.51
1:a:5086:SER:C	1:a:5088:ALA:H	2.18	0.51
1:a:5325:ASN:ND2	1:a:5328:MET:CE	2.73	0.51
2:b:5354:LEU:CD2	2:b:5378:LYS:HB2	2.40	0.51
22:b:6018:CLA:H8	22:b:6023:CLA:HBA1	1.90	0.51
29:b:6058:DGD:CIB	29:b:6058:DGD:CEB	2.39	0.51
3:c:5263:ALA:HB1	3:c:5264:PHE:CD2	2.45	0.51
4:d:5261:PHE:H	24:d:6042:PQ9:H93	1.74	0.51
6:f:5032:PHE:CD1	6:f:5032:PHE:C	2.87	0.51
13:o:5150:ASN:HD22	13:o:5173:ASN:CB	2.24	0.51
16:v:5039:ASN:C	16:v:5041:GLU:N	2.67	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:THR:CG2	1:A:46:ILE:N	2.71	0.51
1:A:149:ALA:HB3	1:A:150:PRO:CD	2.36	0.51
1:A:265:PHE:CD1	1:A:271:LEU:HA	2.46	0.51
2:B:325:PHE:O	2:B:327:THR:N	2.37	0.51
29:B:1058:DGD:HE5	29:B:1058:DGD:HD61	1.93	0.51
3:C:171:GLY:CA	3:C:174:LEU:CB	2.86	0.51
3:C:202:PRO:HB3	3:C:235:GLY:CA	2.40	0.51
4:D:67:TYR:CD1	4:D:76:VAL:HG11	2.46	0.51
22:D:1008:CLA:C18	22:D:1008:CLA:H141	2.19	0.51
16:V:162:TYR:O	16:V:163:TYR:C	2.53	0.51
1:a:5037:MET:HE1	1:a:5129:ARG:NH2	2.26	0.51
1:a:5064:ARG:HH21	13:o:5098:THR:HG21	1.76	0.51
1:a:5256:GLY:O	1:a:5261:GLN:HA	2.10	0.51
2:b:5095:GLY:O	2:b:5099:ALA:N	2.41	0.51
2:b:5125:ASP:HA	7:h:5012:ARG:HH21	1.75	0.51
2:b:5302:TRP:C	2:b:5304:ALA:N	2.66	0.51
2:b:5372:ASP:OD2	2:b:5376:VAL:HG23	2.10	0.51
22:b:6016:CLA:O1A	22:b:6016:CLA:C1A	2.58	0.51
22:b:6016:CLA:CGA	22:b:6016:CLA:C1A	2.88	0.51
3:c:5167:VAL:CG1	3:c:5168:LEU:HD12	2.30	0.51
3:c:5171:GLY:O	3:c:5172:ALA:C	2.52	0.51
22:c:6027:CLA:HBD	22:c:6027:CLA:HAA1	1.92	0.51
4:d:5023:LYS:NZ	4:d:5135:LEU:HD21	2.26	0.51
4:d:5078:VAL:HG12	4:d:5173:PHE:CB	2.40	0.51
6:f:5038:ALA:HA	9:j:5027:LEU:HD21	1.91	0.51
8:i:5029:ALA:O	8:i:5030:ARG:CB	2.59	0.51
22:k:6034:CLA:C4D	22:k:6034:CLA:O2A	2.59	0.51
2:B:99:ALA:O	2:B:102:VAL:HG22	2.11	0.51
2:B:283:GLU:HG2	2:B:286:ARG:HH12	1.76	0.51
3:C:171:GLY:C	22:C:1025:CLA:HBC3	2.35	0.51
4:D:213:ILE:HD11	4:D:253:TRP:CH2	2.46	0.51
4:D:246:MET:HE2	4:D:264:LYS:HD3	1.93	0.51
7:H:56:ASP:C	7:H:58:VAL:N	2.63	0.51
8:I:7:THR:O	8:I:11:VAL:HG23	2.11	0.51
1:a:5149:ALA:HB3	1:a:5150:PRO:CD	2.36	0.51
2:b:5192:PRO:HD2	7:h:5060:VAL:HG12	1.92	0.51
13:o:5148:VAL:HG23	13:o:5151:LEU:HD13	1.92	0.51
13:o:5176:SER:O	13:o:5177:TYR:C	2.54	0.51
1:A:26:ASN:O	1:A:28:LEU:N	2.44	0.51
1:A:148:SER:OG	1:A:149:ALA:N	2.43	0.51
1:A:269:ARG:CZ	4:D:222:LEU:CD2	2.89	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:310:LYS:H	16:V:28:GLU:CB	2.24	0.51
1:A:325:ASN:ND2	1:A:328:MET:CE	2.73	0.51
24:A:1043:PQ9:H293	23:D:1039:PHO:HBA2	1.91	0.51
2:B:27:THR:HG23	22:B:1013:CLA:HBC3	1.93	0.51
2:B:271:THR:O	2:B:274:GLN:HB2	2.11	0.51
22:B:1011:CLA:OBD	22:B:1013:CLA:H12	2.10	0.51
3:C:274:TYR:CE1	22:C:1029:CLA:O1D	2.62	0.51
22:C:1028:CLA:NB	29:C:1056:DGD:HA42	2.26	0.51
22:C:1035:CLA:H93	25:C:1052:BCR:H402	1.87	0.51
4:D:122:LEU:O	4:D:123:ILE:C	2.54	0.51
4:D:274:VAL:HG13	24:D:1042:PQ9:H262	1.93	0.51
10:K:21:LEU:HD21	18:Y:24:MET:HE3	1.92	0.51
20:Z:12:LEU:HA	20:Z:50:LEU:HD13	1.93	0.51
1:a:5269:ARG:CZ	4:d:5222:LEU:CD2	2.89	0.51
1:a:5271:LEU:HD12	1:a:5272:HIS:N	2.26	0.51
2:b:5060:MET:HE2	2:b:5060:MET:HA	1.93	0.51
2:b:5275:TRP:HB3	2:b:5318:ASN:HD22	1.75	0.51
22:b:6010:CLA:HBD	22:b:6010:CLA:HAA2	1.93	0.51
22:b:6019:CLA:HBB2	22:b:6021:CLA:CMB	2.41	0.51
3:c:5117:VAL:CG1	22:c:6027:CLA:H42	2.32	0.51
4:d:5118:GLY:HA2	23:d:6039:PHO:H71	1.93	0.51
4:d:5126:MET:HE3	4:d:5146:PHE:CD2	2.42	0.51
22:d:6005:CLA:O1A	22:d:6005:CLA:NA	2.43	0.51
10:k:5032:PHE:HB3	22:k:6034:CLA:HMA3	1.91	0.51
13:o:5154:SER:O	13:o:5168:PHE:HA	2.11	0.51
16:v:5058:LEU:O	16:v:5060:GLN:N	2.44	0.51
1:A:115:ILE:HG21	1:A:174:LEU:HD13	1.93	0.51
1:A:333:GLU:OE1	3:C:354:GLU:OE1	2.28	0.51
2:B:24:LEU:HB2	22:B:1023:CLA:HED1	1.92	0.51
2:B:24:LEU:HD22	2:B:114:HIS:HD2	1.75	0.51
2:B:338:GLN:HA	2:B:338:GLN:NE2	2.16	0.51
22:B:1016:CLA:C1A	22:B:1016:CLA:CGA	2.88	0.51
3:C:158:THR:HG23	3:C:159:THR:N	2.25	0.51
3:C:275:SER:C	22:C:1033:CLA:HED1	2.35	0.51
5:E:23:HIS:HB3	5:E:27:ILE:CD1	2.40	0.51
7:H:38:PHE:O	7:H:41:PHE:N	2.41	0.51
8:I:8:VAL:O	8:I:9:TYR:C	2.52	0.51
8:I:11:VAL:O	8:I:15:PHE:CD1	2.64	0.51
10:K:20:PRO:O	10:K:23:ASP:HB2	2.11	0.51
22:K:1034:CLA:C4D	22:K:1034:CLA:O2A	2.59	0.51
13:O:176:SER:O	13:O:177:TYR:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T:11:ALA:O	14:T:13:ILE:N	2.44	0.51
16:V:58:LEU:O	16:V:60:GLN:N	2.44	0.51
1:a:5033:PHE:O	1:a:5034:GLY:C	2.54	0.51
1:a:5037:MET:HE1	1:a:5129:ARG:CZ	2.40	0.51
1:a:5147:TYR:O	1:a:5150:PRO:HD2	2.11	0.51
1:a:5272:HIS:O	4:d:5215:GLY:HA2	2.11	0.51
22:a:6006:CLA:HAA2	29:c:6057:DGD:CFB	2.40	0.51
22:a:6007:CLA:H142	8:i:5013:THR:HG21	1.92	0.51
26:a:6063:LHG:C31	22:c:6032:CLA:H71	2.41	0.51
2:b:5014:ASN:O	2:b:5015:ASP:HB3	2.09	0.51
2:b:5142:HIS:HA	2:b:5145:LEU:HD12	1.92	0.51
22:b:6011:CLA:C1D	22:b:6013:CLA:C4	2.89	0.51
22:b:6012:CLA:HMD2	22:b:6020:CLA:H201	1.92	0.51
22:b:6019:CLA:H93	28:l:6061:MGE:C8A	2.41	0.51
22:b:6022:CLA:HBC1	12:m:5021:PHE:CG	2.46	0.51
22:c:6028:CLA:NB	29:c:6056:DGD:HA42	2.26	0.51
4:d:5037:LEU:CD1	4:d:5125:PHE:HB2	2.41	0.51
4:d:5154:VAL:HA	4:d:5158:LEU:HD13	1.92	0.51
4:d:5188:PHE:CE2	4:d:5326:ARG:HA	2.46	0.51
4:d:5274:VAL:HG13	24:d:6042:PQ9:H262	1.93	0.51
4:d:5331:PRO:HA	4:d:5339:PHE:HB2	1.92	0.51
22:d:6008:CLA:HBB1	22:d:6008:CLA:CHC	2.13	0.51
24:d:6042:PQ9:H252	28:l:6061:MGE:CGB	2.41	0.51
5:e:5028:PRO:HA	5:e:5031:PHE:HB3	1.92	0.51
11:l:5015:THR:HG22	11:l:5016:SER:N	2.22	0.51
16:v:5061:TYR:C	16:v:5063:CYS:N	2.68	0.51
17:x:5036:VAL:O	17:x:5039:ALA:HB3	2.10	0.51
20:z:5023:VAL:HB	20:z:5024:PRO:HD3	1.91	0.51
1:A:41:LEU:O	1:A:45:THR:HG22	2.11	0.51
1:A:76:ASN:HB2	4:D:298:PHE:HE1	1.76	0.51
1:A:143:ILE:HD11	4:D:253:TRP:CZ2	2.46	0.51
1:A:216:GLY:HA2	4:D:268:HIS:O	2.11	0.51
1:A:338:ASN:O	1:A:339:PHE:CD2	2.64	0.51
2:B:74:SER:O	2:B:76:SER:N	2.44	0.51
2:B:109:LEU:O	2:B:110:ALA:C	2.54	0.51
2:B:302:TRP:CE3	2:B:305:ILE:HD12	2.45	0.51
22:B:1010:CLA:O2D	22:B:1010:CLA:H2A	2.11	0.51
22:B:1016:CLA:C9	22:D:1008:CLA:H201	2.40	0.51
22:B:1018:CLA:HHC	22:B:1018:CLA:CBB	2.20	0.51
25:B:1047:BCR:H23C	25:t:1046:BCR:H351	1.92	0.51
3:C:48:LYS:CG	3:C:49:LEU:HD12	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:185:LEU:CG	3:C:199:ILE:HD11	2.38	0.51
3:C:223:TRP:CD1	3:C:223:TRP:C	2.89	0.51
3:C:318:LEU:HD11	3:C:380:ILE:HG12	1.92	0.51
5:E:73:LYS:O	5:E:76:VAL:CG2	2.54	0.51
5:E:84:LYS:NZ	16:V:27:ALA:O	2.43	0.51
12:M:18:PRO:HG2	12:M:19:SER:N	2.26	0.51
12:M:18:PRO:O	12:M:21:PHE:HB3	2.11	0.51
13:O:80:GLU:HB2	13:O:92:VAL:HG23	1.93	0.51
16:V:90:PRO:HD2	16:V:92:ARG:CZ	2.40	0.51
16:V:119:PRO:HB2	16:V:130:MET:HE2	1.92	0.51
1:a:5041:LEU:O	1:a:5045:THR:HG22	2.11	0.51
1:a:5202:VAL:HG22	1:a:5206:PHE:CD1	2.46	0.51
1:a:5210:LEU:C	1:a:5210:LEU:CD2	2.84	0.51
1:a:5215:HIS:O	1:a:5219:VAL:HG23	2.11	0.51
1:a:5265:PHE:CD1	1:a:5271:LEU:HA	2.46	0.51
1:a:5279:ARG:HE	23:a:6038:PHO:HMC3	1.76	0.51
2:b:5027:THR:HG23	22:b:6013:CLA:HBC3	1.93	0.51
2:b:5065:PHE:C	2:b:5067:ALA:N	2.67	0.51
2:b:5190:PHE:CZ	22:b:6009:CLA:HMA1	2.45	0.51
2:b:5434:THR:OG1	13:o:5204:LYS:HD3	2.11	0.51
3:c:5062:PHE:CZ	10:k:5028:ILE:HB	2.46	0.51
3:c:5348:GLU:H	13:o:5042:ALA:HB3	1.76	0.51
4:d:5029:PHE:CD2	4:d:5030:VAL:N	2.79	0.51
4:d:5033:SER:OG	4:d:5128:ARG:HG3	2.11	0.51
4:d:5167:TRP:O	4:d:5170:ALA:HB3	2.10	0.51
8:i:5007:THR:O	8:i:5011:VAL:HG23	2.11	0.51
10:k:5033:PHE:CE1	10:k:5037:PHE:CE2	2.98	0.51
12:m:5018:PRO:HG2	12:m:5019:SER:N	2.26	0.51
1:A:29:TYR:H	4:D:255:GLN:HB3	1.75	0.50
1:A:64:ARG:HH21	13:O:98:THR:HG21	1.76	0.50
1:A:76:ASN:HB2	1:A:79:THR:HG23	1.91	0.50
2:B:21:ALA:HA	2:B:24:LEU:HD23	1.94	0.50
2:B:340:TRP:HE1	2:B:428:GLU:HB3	1.76	0.50
2:B:467:ILE:HD13	4:D:126:MET:SD	2.52	0.50
3:C:251:HIS:HE1	22:C:1030:CLA:NA	2.09	0.50
22:D:1005:CLA:HBC2	22:D:1005:CLA:CHD	2.41	0.50
7:H:43:LEU:CD2	17:X:19:PHE:CZ	2.92	0.50
13:O:97:VAL:HG12	13:O:98:THR:N	2.25	0.50
13:O:137:ALA:O	13:O:138:GLY:O	2.28	0.50
14:T:22:PHE:N	14:T:22:PHE:CD1	2.79	0.50
25:T:6046:BCR:H353	25:b:6047:BCR:C23	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Y:43:ARG:N	18:Y:43:ARG:CZ	2.74	0.50
1:a:5053:ILE:HA	1:a:5071:LEU:CD1	2.41	0.50
1:a:5143:ILE:HD11	4:d:5253:TRP:CZ2	2.46	0.50
1:a:5224:ILE:HA	2:b:5482:ILE:HG13	1.91	0.50
24:a:6043:PQ9:H293	23:d:6039:PHO:HBA2	1.92	0.50
2:b:5038:ALA:O	2:b:5042:LEU:HB2	2.10	0.50
2:b:5074:SER:O	2:b:5076:SER:N	2.45	0.50
2:b:5174:LEU:CD2	2:b:5312:TYR:CZ	2.94	0.50
2:b:5483:ASP:O	2:b:5485:GLU:N	2.43	0.50
22:b:6023:CLA:C4C	22:b:6024:CLA:HBC1	2.41	0.50
3:c:5251:HIS:HE1	22:c:6030:CLA:NA	2.09	0.50
3:c:5290:VAL:HG13	3:c:5427:ALA:HB2	1.93	0.50
29:c:6056:DGD:CEB	29:c:6056:DGD:CIB	2.48	0.50
10:k:5037:PHE:CB	25:k:6051:BCR:H401	2.41	0.50
11:l:5032:SER:OG	11:l:5033:SER:N	2.42	0.50
12:m:5018:PRO:O	12:m:5021:PHE:HB3	2.11	0.50
1:A:269:ARG:HG3	4:D:235:PHE:HB2	1.94	0.50
1:A:325:ASN:HB3	3:C:412:THR:HG21	1.93	0.50
2:B:106:LEU:HD12	25:B:1048:BCR:C35	2.42	0.50
22:B:1010:CLA:HBD	22:B:1010:CLA:HAA2	1.92	0.50
3:C:142:GLU:C	3:C:144:SER:H	2.19	0.50
3:C:190:ALA:O	3:C:191:PRO:C	2.54	0.50
22:C:1025:CLA:O1A	22:C:1026:CLA:OBD	2.29	0.50
22:C:1029:CLA:CBA	22:C:1029:CLA:HMA3	2.33	0.50
4:D:37:LEU:CD1	4:D:125:PHE:HB2	2.41	0.50
4:D:331:PRO:HA	4:D:339:PHE:HB2	1.92	0.50
15:U:37:GLN:O	15:U:38:TYR:CG	2.64	0.50
15:U:39:ARG:HH11	15:U:39:ARG:HG3	1.76	0.50
20:Z:52:LEU:O	20:Z:55:GLY:HA3	2.11	0.50
1:a:5053:ILE:HA	1:a:5071:LEU:HD13	1.93	0.50
1:a:5296:ASN:HB3	3:c:5401:LEU:HD13	1.91	0.50
1:a:5310:LYS:H	16:v:5028:GLU:CB	2.24	0.50
2:b:5057:ARG:HD2	2:b:5311:PHE:CZ	2.46	0.50
2:b:5099:ALA:O	2:b:5102:VAL:HG22	2.11	0.50
2:b:5283:GLU:HG2	2:b:5286:ARG:HH12	1.76	0.50
2:b:5297:THR:C	2:b:5299:GLU:N	2.66	0.50
2:b:5354:LEU:C	2:b:5355:PHE:CD2	2.84	0.50
22:b:6021:CLA:HMD2	22:b:6022:CLA:CBB	2.34	0.50
3:c:5152:LYS:O	3:c:5154:LYS:N	2.45	0.50
3:c:5184:GLY:C	3:c:5185:LEU:HD23	2.37	0.50
3:c:5274:TYR:CE1	22:c:6029:CLA:OBD	2.64	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5438:LEU:O	3:c:5442:LEU:HD12	2.11	0.50
22:c:6030:CLA:CHD	22:c:6030:CLA:HBC3	2.37	0.50
22:c:6033:CLA:H2	22:c:6033:CLA:H72	1.92	0.50
7:h:5035:MET:SD	25:h:6049:BCR:H333	2.51	0.50
10:k:5032:PHE:CE1	25:k:6052:BCR:H383	2.43	0.50
15:u:5084:VAL:CG1	15:u:5085:THR:N	2.75	0.50
16:v:5038:LEU:HB3	16:v:5043:LYS:O	2.11	0.50
20:z:5020:VAL:HG12	20:z:5021:ILE:N	2.26	0.50
1:A:33:PHE:O	1:A:34:GLY:C	2.54	0.50
22:B:1021:CLA:H112	28:B:1060:MGE:H131	1.94	0.50
22:B:1024:CLA:HBC2	22:B:1024:CLA:CMC	2.41	0.50
3:C:62:PHE:CZ	10:K:28:ILE:HB	2.46	0.50
3:C:274:TYR:CE1	22:C:1029:CLA:OBD	2.64	0.50
3:C:297:TYR:HA	3:C:302:TYR:CE2	2.46	0.50
3:C:328:VAL:HG12	3:C:340:TYR:HB2	1.91	0.50
4:D:261:PHE:N	24:D:1042:PQ9:H91	2.14	0.50
25:D:1050:BCR:C38	25:D:1050:BCR:C23	2.59	0.50
9:J:8:ILE:H	9:J:8:ILE:HD12	1.76	0.50
10:K:21:LEU:O	10:K:24:VAL:N	2.44	0.50
10:K:28:ILE:HD13	10:K:31:LEU:CD1	2.38	0.50
12:M:11:THR:O	12:M:14:PHE:HB3	2.10	0.50
13:O:105:ASP:O	13:O:106:GLN:HB2	2.12	0.50
13:O:242:GLU:HG3	13:O:262:GLN:HG2	1.93	0.50
1:a:5026:ASN:O	1:a:5028:LEU:N	2.44	0.50
1:a:5076:ASN:HB2	4:d:5298:PHE:HE1	1.76	0.50
1:a:5199:GLN:C	1:a:5201:GLY:N	2.67	0.50
2:b:5327:THR:HG21	12:m:5004:ASN:HD22	1.75	0.50
22:b:6010:CLA:O2D	22:b:6010:CLA:H2A	2.11	0.50
22:b:6016:CLA:C17	22:d:6008:CLA:CMA	2.89	0.50
28:b:6060:MGE:H6B1	4:d:5280:TRP:CD1	2.46	0.50
29:b:6058:DGD:C6D	29:b:6058:DGD:C5E	2.90	0.50
3:c:5297:TYR:HA	3:c:5302:TYR:CE2	2.46	0.50
4:d:5273:PHE:CE2	28:l:6061:MGE:H5B1	2.47	0.50
7:h:5043:LEU:CD2	17:x:5019:PHE:CZ	2.92	0.50
10:k:5020:PRO:O	10:k:5023:ASP:HB2	2.11	0.50
13:o:5206:GLU:O	13:o:5207:GLU:HB3	2.11	0.50
15:u:5039:ARG:HH11	15:u:5039:ARG:HG3	1.76	0.50
18:y:5043:ARG:NH1	18:y:5043:ARG:H	2.09	0.50
18:y:5043:ARG:CZ	18:y:5043:ARG:N	2.74	0.50
1:A:53:ILE:HA	1:A:71:LEU:CD1	2.41	0.50
1:A:116:ILE:CG2	1:A:117:PHE:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:239:PHE:CZ	4:D:247:VAL:HA	2.47	0.50
2:B:38:ALA:O	2:B:42:LEU:HB2	2.10	0.50
2:B:153:PHE:HD1	2:B:157:HIS:HB3	1.76	0.50
2:B:311:PHE:HA	2:B:430:PHE:CZ	2.46	0.50
2:B:327:THR:HG21	12:M:4:ASN:HD22	1.75	0.50
22:C:1031:CLA:C14	25:C:1054:BCR:H361	2.40	0.50
4:D:140:PRO:O	4:D:141:TYR:C	2.53	0.50
4:D:213:ILE:HG23	4:D:214:HIS:N	2.26	0.50
4:D:214:HIS:O	4:D:217:THR:HG22	2.11	0.50
24:D:1042:PQ9:H252	28:L:1061:MGE:CGB	2.41	0.50
9:J:23:VAL:CG1	9:J:24:ILE:N	2.75	0.50
12:M:20:VAL:HG11	12:m:5020:VAL:HG22	1.93	0.50
15:U:58:VAL:HB	15:U:59:GLU:OE2	2.11	0.50
1:a:5189:GLU:O	3:c:5411:ALA:HB2	2.11	0.50
2:b:5021:ALA:HA	2:b:5024:LEU:HD23	1.94	0.50
2:b:5061:PHE:HB2	22:b:6015:CLA:HMA1	1.93	0.50
2:b:5080:ILE:O	2:b:5080:ILE:HG22	2.11	0.50
2:b:5099:ALA:O	2:b:5102:VAL:CG2	2.59	0.50
2:b:5368:VAL:HG22	2:b:5381:ILE:HG13	1.92	0.50
22:b:6024:CLA:HBC2	22:b:6024:CLA:CMC	2.41	0.50
3:c:5222:GLY:HA3	3:c:5225:VAL:CG2	2.41	0.50
3:c:5223:TRP:CD1	3:c:5223:TRP:C	2.89	0.50
4:d:5026:ARG:HH11	4:d:5026:ARG:HG3	1.76	0.50
4:d:5103:ARG:HD3	4:d:5106:GLN:HE21	1.74	0.50
4:d:5342:PRO:HD2	4:d:5345:VAL:HG21	1.94	0.50
9:j:5023:VAL:CG1	9:j:5024:ILE:N	2.75	0.50
13:o:5055:ALA:HB2	13:o:5163:THR:HB	1.94	0.50
13:o:5215:ARG:HG2	13:o:5215:ARG:NH1	2.24	0.50
14:t:5011:ALA:O	14:t:5013:ILE:N	2.44	0.50
16:v:5160:LYS:N	16:v:5163:TYR:CE1	2.78	0.50
1:A:147:TYR:O	1:A:150:PRO:HD2	2.11	0.50
1:A:244:GLU:HG2	4:D:264:LYS:HZ2	1.76	0.50
1:A:290:ILE:HD11	22:A:1003:CLA:HMD2	1.93	0.50
2:B:28:ALA:HB2	2:B:107:LEU:HB2	1.93	0.50
2:B:69:LEU:HB3	22:B:1014:CLA:HMA1	1.94	0.50
2:B:90:PHE:C	2:B:90:PHE:HD2	2.18	0.50
2:B:193:TYR:HE1	2:B:259:GLY:C	2.20	0.50
2:B:195:PRO:O	2:B:196:GLY:C	2.53	0.50
22:B:1018:CLA:HAA2	22:B:1018:CLA:HBD	1.94	0.50
3:C:177:ALA:O	3:C:181:PHE:N	2.24	0.50
3:C:222:GLY:HA3	3:C:225:VAL:CG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:173:PHE:HD1	23:D:1039:PHO:H13	1.76	0.50
4:D:317:LYS:HG2	27:D:1064:IOD:I	2.82	0.50
13:O:62:GLN:HA	13:O:62:GLN:NE2	2.26	0.50
13:O:251:MET:HE2	13:O:251:MET:N	2.26	0.50
16:V:38:LEU:HB3	16:V:43:LYS:O	2.11	0.50
18:Y:43:ARG:HG2	18:Y:44:GLY:H	1.73	0.50
1:a:5075:ASN:HD22	1:a:5080:GLY:HA2	1.76	0.50
1:a:5092:HIS:CD2	3:c:5219:GLY:O	2.64	0.50
22:a:6003:CLA:HBB1	22:a:6006:CLA:HMD2	1.94	0.50
2:b:5340:TRP:HE1	2:b:5428:GLU:HB3	1.76	0.50
3:c:5309:ALA:C	3:c:5311:GLN:H	2.20	0.50
3:c:5309:ALA:O	3:c:5312:ALA:N	2.44	0.50
3:c:5327:ASN:ND2	3:c:5330:SER:H	2.09	0.50
4:d:5088:SER:C	4:d:5090:LEU:N	2.69	0.50
4:d:5109:GLY:O	4:d:5110:LEU:C	2.55	0.50
7:h:5047:GLU:O	7:h:5053:LEU:N	2.40	0.50
9:j:5038:SER:O	9:j:5039:SER:CB	2.59	0.50
11:l:5005:PRO:O	11:l:5007:ARG:N	2.44	0.50
11:l:5020:GLY:HA3	12:m:5022:LEU:CD1	2.42	0.50
13:o:5236:GLU:C	13:o:5237:ILE:HG22	2.37	0.50
15:u:5037:GLN:O	15:u:5038:TYR:CG	2.64	0.50
16:v:5036:VAL:HG12	16:v:5150:LYS:HE3	1.92	0.50
18:y:5039:LEU:CD2	20:z:5028:ALA:HB1	2.42	0.50
18:y:5043:ARG:HG2	18:y:5044:GLY:H	1.73	0.50
1:A:205:VAL:HG13	1:A:206:PHE:H	1.77	0.50
2:B:60:MET:HA	2:B:60:MET:HE2	1.93	0.50
22:B:1019:CLA:HBB2	22:B:1021:CLA:CMB	2.41	0.50
3:C:309:ALA:O	3:C:312:ALA:N	2.44	0.50
22:C:1033:CLA:H2	22:C:1033:CLA:H72	1.92	0.50
22:C:1037:CLA:CBC	22:C:1037:CLA:CHD	2.76	0.50
25:C:1054:BCR:C23	25:C:1054:BCR:H402	2.31	0.50
4:D:15:PHE:O	4:D:18:LEU:N	2.45	0.50
4:D:29:PHE:CD2	4:D:30:VAL:N	2.79	0.50
5:E:32:ILE:HG22	5:E:33:ALA:N	2.26	0.50
12:M:18:PRO:HG2	12:M:19:SER:H	1.77	0.50
13:O:154:SER:O	13:O:168:PHE:HA	2.11	0.50
13:O:206:GLU:O	13:O:207:GLU:HB3	2.11	0.50
14:T:8:PHE:HE1	27:T:1066:IOD:I	2.63	0.50
16:V:151:ILE:HD13	16:V:151:ILE:N	2.23	0.50
17:X:13:THR:O	17:X:14:PRO:C	2.54	0.50
1:a:5116:ILE:CG2	1:a:5117:PHE:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5205:VAL:HG13	1:a:5206:PHE:N	2.27	0.50
1:a:5302:PHE:HB3	1:a:5305:SER:OG	2.12	0.50
2:b:5052:LEU:CD2	2:b:5311:PHE:HD1	2.20	0.50
2:b:5053:ASN:N	2:b:5054:PRO:CD	2.74	0.50
2:b:5191:ASN:O	2:b:5192:PRO:C	2.54	0.50
2:b:5310:ALA:O	2:b:5313:ASP:N	2.41	0.50
2:b:5467:ILE:HD13	4:d:5126:MET:SD	2.52	0.50
22:b:6011:CLA:OBD	22:b:6013:CLA:H12	2.10	0.50
3:c:5045:LEU:CD2	3:c:5141:GLU:OE1	2.60	0.50
3:c:5142:GLU:C	3:c:5144:SER:H	2.19	0.50
3:c:5315:MET:HE3	3:c:5315:MET:CA	2.37	0.50
3:c:5327:ASN:C	3:c:5328:VAL:HG23	2.37	0.50
3:c:5472:LEU:O	3:c:5473:ASP:CB	2.58	0.50
22:c:6025:CLA:O1A	22:c:6026:CLA:OBD	2.29	0.50
25:d:6050:BCR:C20	28:d:6059:MGE:C5A	2.88	0.50
6:f:5029:PRO:O	6:f:5032:PHE:HB3	2.11	0.50
9:j:5019:MET:O	9:j:5023:VAL:N	2.45	0.50
10:k:5018:PHE:O	10:k:5019:ASP:C	2.53	0.50
10:k:5039:VAL:CG2	18:y:5036:ILE:HD11	2.19	0.50
22:k:6034:CLA:O1A	22:k:6034:CLA:O2D	2.30	0.50
13:o:5221:GLY:O	13:o:5222:GLN:CB	2.59	0.50
13:o:5242:GLU:HG3	13:o:5262:GLN:HG2	1.93	0.50
13:o:5251:MET:HE2	13:o:5251:MET:N	2.26	0.50
15:u:5016:LYS:HG2	15:u:5021:TYR:HD1	1.74	0.50
1:A:33:PHE:HB2	1:A:129:ARG:HB2	1.94	0.50
1:A:71:LEU:O	14:T:3:THR:HG21	2.11	0.50
1:A:86:SER:C	1:A:88:ALA:N	2.68	0.50
1:A:202:VAL:HG22	1:A:206:PHE:CD1	2.46	0.50
1:A:214:MET:O	1:A:217:SER:N	2.43	0.50
1:A:221:SER:HA	4:D:139:ARG:HB2	1.93	0.50
2:B:57:ARG:HD2	2:B:311:PHE:CZ	2.46	0.50
2:B:308:LYS:O	2:B:312:TYR:HD2	1.94	0.50
2:B:434:THR:OG1	13:O:204:LYS:HD3	2.11	0.50
22:B:1011:CLA:C1D	22:B:1013:CLA:C4	2.89	0.50
22:B:1023:CLA:C4C	22:B:1024:CLA:HBC1	2.41	0.50
3:C:309:ALA:C	3:C:311:GLN:H	2.20	0.50
3:C:348:GLU:H	13:O:42:ALA:HB3	1.76	0.50
3:C:438:LEU:O	3:C:442:LEU:HD12	2.11	0.50
4:D:196:PHE:HB3	4:D:281:MET:O	2.12	0.50
28:D:1062:MGE:H7A2	14:T:21:ILE:HD11	1.94	0.50
8:I:30:ARG:HG3	8:I:30:ARG:NH1	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:O:52:ALA:HA	13:O:230:VAL:O	2.11	0.50
13:O:55:ALA:HB2	13:O:163:THR:HB	1.94	0.50
25:T:6048:BCR:C35	2:b:5106:LEU:HD12	2.42	0.50
15:U:64:ILE:HB	15:U:67:LEU:CD1	2.38	0.50
18:Y:43:ARG:CD	20:Z:31:GLN:NE2	2.75	0.50
1:a:5218:LEU:CD2	1:a:5218:LEU:N	2.75	0.50
1:a:5290:ILE:HD11	22:a:6003:CLA:HMD2	1.93	0.50
22:a:6006:CLA:HBC1	4:d:5182:LEU:CD2	2.41	0.50
2:b:5066:MET:HE3	2:b:5096:VAL:HB	1.94	0.50
3:c:5063:TRP:HE1	22:c:6028:CLA:C3C	2.24	0.50
3:c:5222:GLY:HA3	29:c:6055:DGD:O1B	2.12	0.50
3:c:5307:PRO:HA	3:c:5358:PHE:CE1	2.47	0.50
3:c:5438:LEU:CD1	3:c:5442:LEU:HD11	2.42	0.50
4:d:5140:PRO:O	4:d:5141:TYR:C	2.53	0.50
4:d:5152:VAL:HB	22:d:6004:CLA:H43	1.94	0.50
4:d:5213:ILE:HD11	4:d:5253:TRP:CH2	2.46	0.50
7:h:5019:GLY:O	7:h:5021:VAL:HG12	2.11	0.50
8:i:5030:ARG:HG3	8:i:5030:ARG:NH1	2.26	0.50
10:k:5028:ILE:HD13	10:k:5031:LEU:CD1	2.38	0.50
13:o:5062:GLN:HA	13:o:5062:GLN:NE2	2.26	0.50
18:y:5028:ILE:HG12	18:y:5029:GLY:N	2.27	0.50
20:z:5025:VAL:O	20:z:5028:ALA:HB3	2.12	0.50
1:A:55:ALA:H	1:A:70:SER:HB2	1.77	0.50
1:A:120:LEU:HD11	1:A:155:PHE:CE1	2.46	0.50
2:B:191:ASN:O	2:B:192:PRO:C	2.54	0.50
2:B:456:ALA:CA	29:B:1058:DGD:HBV1	2.42	0.50
3:C:222:GLY:HA3	29:C:1055:DGD:O1B	2.12	0.50
3:C:307:PRO:HA	3:C:358:PHE:CE1	2.47	0.50
22:C:1031:CLA:H142	25:C:1054:BCR:H362	1.91	0.50
29:C:1057:DGD:HB81	28:D:1059:MGE:C8B	2.24	0.50
4:D:269:PHE:O	4:D:272:LEU:N	2.38	0.50
7:H:35:MET:SD	25:H:1049:BCR:H333	2.51	0.50
10:K:31:LEU:O	10:K:34:ALA:HB3	2.12	0.50
11:L:5:PRO:O	11:L:7:ARG:N	2.44	0.50
13:O:150:ASN:HD22	13:O:173:ASN:CB	2.24	0.50
13:O:200:LEU:HB3	13:O:203:ALA:HB2	1.94	0.50
13:O:221:GLY:O	13:O:222:GLN:CB	2.59	0.50
15:U:32:ILE:O	15:U:32:ILE:HG12	2.12	0.50
16:V:36:VAL:HG12	16:V:150:LYS:HE3	1.93	0.50
16:V:46:THR:O	16:V:47:LEU:CB	2.58	0.50
1:a:5338:ASN:O	1:a:5339:PHE:CD1	2.65	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:a:6063:LHG:H292	22:c:6032:CLA:C7	2.38	0.50
2:b:5097:ALA:O	2:b:5099:ALA:N	2.45	0.50
22:b:6020:CLA:O2A	22:b:6020:CLA:C4	2.59	0.50
22:b:6021:CLA:H112	28:b:6060:MGE:H131	1.94	0.50
3:c:5179:ALA:CA	3:c:5199:ILE:HD13	2.42	0.50
3:c:5200:THR:O	3:c:5202:PRO:HD3	2.10	0.50
3:c:5344:SER:OG	3:c:5345:PRO:HD2	2.12	0.50
4:d:5033:SER:OG	4:d:5128:ARG:HG2	2.12	0.50
4:d:5037:LEU:CD2	4:d:5128:ARG:HD3	2.27	0.50
4:d:5246:MET:HE2	4:d:5264:LYS:HD3	1.93	0.50
10:k:5033:PHE:O	10:k:5034:ALA:O	2.30	0.50
13:o:5181:ASN:O	13:o:5182:PHE:CB	2.60	0.50
15:u:5064:ILE:HB	15:u:5067:LEU:CD1	2.38	0.50
16:v:5039:ASN:HD22	16:v:5040:SER:H	1.59	0.50
16:v:5062:ALA:CB	31:v:6041:HEM:HBB1	2.42	0.50
20:z:5012:LEU:HA	20:z:5050:LEU:HD13	1.93	0.50
1:A:126:TYR:O	1:A:126:TYR:CD2	2.58	0.50
1:A:189:GLU:O	3:C:411:ALA:HB2	2.11	0.50
1:A:322:ASN:OD1	3:C:412:THR:HB	2.12	0.50
22:A:1003:CLA:HBB1	22:A:1006:CLA:HMD2	1.94	0.50
2:B:297:THR:C	2:B:299:GLU:N	2.66	0.50
22:B:1021:CLA:O1A	22:B:1021:CLA:C2	2.60	0.50
3:C:63:TRP:HE1	22:C:1028:CLA:C3C	2.24	0.50
3:C:73:ALA:O	10:K:10:LYS:N	2.45	0.50
3:C:184:GLY:C	3:C:185:LEU:HD23	2.37	0.50
4:D:191:TRP:HH2	4:D:285:GLY:HA3	1.77	0.50
8:I:29:ALA:O	8:I:30:ARG:CB	2.59	0.50
9:J:19:MET:O	9:J:23:VAL:N	2.45	0.50
11:L:20:GLY:HA3	12:M:22:LEU:CD1	2.42	0.50
17:X:19:PHE:O	17:X:20:PHE:C	2.52	0.50
1:a:5200:LEU:HD11	29:c:6057:DGD:HA92	1.93	0.50
1:a:5224:ILE:CD1	1:a:5225:ARG:H	2.24	0.50
1:a:5239:PHE:CZ	4:d:5247:VAL:HA	2.47	0.50
1:a:5303:ASN:N	1:a:5303:ASN:ND2	2.60	0.50
2:b:5113:TRP:C	2:b:5115:TRP:N	2.69	0.50
2:b:5153:PHE:HD1	2:b:5157:HIS:HB3	1.76	0.50
2:b:5325:PHE:O	2:b:5327:THR:HG23	2.12	0.50
3:c:5073:ALA:O	10:k:5010:LYS:N	2.45	0.50
3:c:5117:VAL:HG11	22:c:6027:CLA:H12	1.94	0.50
3:c:5171:GLY:CA	3:c:5174:LEU:CB	2.86	0.50
3:c:5457:LYS:HZ2	4:d:5228:GLY:HA2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6033:CLA:CMA	22:k:6034:CLA:HMC2	2.40	0.50
4:d:5015:PHE:O	4:d:5018:LEU:N	2.45	0.50
4:d:5122:LEU:O	4:d:5123:ILE:C	2.54	0.50
4:d:5194:ASN:C	4:d:5194:ASN:OD1	2.55	0.50
28:d:6062:MGE:H7A2	14:t:5021:ILE:HD11	1.94	0.50
5:e:5065:LEU:HD13	5:e:5066:VAL:N	2.27	0.50
12:m:5021:PHE:CE1	12:m:5025:LEU:HG	2.47	0.50
13:o:5080:GLU:HB2	13:o:5092:VAL:HG23	1.93	0.50
15:u:5032:ILE:O	15:u:5032:ILE:HG12	2.12	0.50
16:v:5138:LEU:O	16:v:5141:ILE:HG22	2.12	0.50
1:A:200:LEU:HD11	29:C:1057:DGD:HA92	1.93	0.49
1:A:205:VAL:HG13	1:A:206:PHE:N	2.27	0.49
1:A:224:ILE:CD1	1:A:225:ARG:H	2.24	0.49
2:B:74:SER:C	2:B:76:SER:N	2.69	0.49
3:C:79:LYS:HB3	3:C:84:GLN:HE21	1.75	0.49
3:C:146:PHE:O	3:C:147:PHE:CB	2.59	0.49
3:C:152:LYS:O	3:C:154:LYS:N	2.45	0.49
3:C:175:LEU:HD23	3:C:176:VAL:N	2.27	0.49
3:C:324:LEU:CD2	15:U:32:ILE:HD13	2.43	0.49
22:C:1027:CLA:C15	25:Z:1053:BCR:C33	2.87	0.49
4:D:147:SER:O	4:D:148:ALA:C	2.55	0.49
4:D:300:SER:HA	12:M:2:GLU:O	2.12	0.49
5:E:27:ILE:HG13	31:F:1040:HEM:HMB1	1.94	0.49
5:E:51:ARG:O	5:E:53:ASP:N	2.45	0.49
13:O:59:ASP:HB2	13:O:62:GLN:HB2	1.94	0.49
13:O:181:ASN:O	13:O:182:PHE:CB	2.60	0.49
15:U:84:VAL:CG1	15:U:85:THR:N	2.75	0.49
16:V:35:THR:HG23	16:V:46:THR:HA	1.94	0.49
1:a:5205:VAL:HG13	1:a:5206:PHE:H	1.77	0.49
1:a:5325:ASN:HB3	3:c:5412:THR:HG21	1.93	0.49
22:b:6011:CLA:H11	22:b:6011:CLA:C4A	2.42	0.49
22:b:6013:CLA:CMB	22:b:6014:CLA:C1	2.88	0.49
3:c:5071:GLU:OE1	3:c:5089:ILE:HB	2.12	0.49
22:c:6028:CLA:C10	29:c:6056:DGD:HAS2	2.36	0.49
4:d:5032:TRP:CE3	4:d:5035:ILE:HD11	2.47	0.49
4:d:5032:TRP:HB2	4:d:5131:GLU:OE1	2.11	0.49
4:d:5080:THR:HA	4:d:5111:TRP:CD1	2.47	0.49
5:e:5034:GLY:HA2	6:f:5032:PHE:CD1	2.47	0.49
7:h:5054:ILE:HG22	7:h:5055:LEU:N	2.27	0.49
22:k:6034:CLA:H42	22:k:6034:CLA:HBA1	1.92	0.49
20:z:5052:LEU:O	20:z:5055:GLY:HA3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:53:ILE:HA	1:A:71:LEU:HD13	1.93	0.49
1:A:227:THR:OG1	1:A:228:THR:N	2.45	0.49
1:A:302:PHE:HB3	1:A:305:SER:OG	2.12	0.49
2:B:308:LYS:HG2	2:B:312:TYR:CE2	2.47	0.49
2:B:363:PHE:HD2	2:B:363:PHE:H	1.57	0.49
22:B:1015:CLA:HBB1	22:B:1015:CLA:HHC	1.95	0.49
22:B:1020:CLA:O2A	22:B:1020:CLA:C4	2.59	0.49
3:C:60:ILE:HG22	22:K:1034:CLA:CMD	2.42	0.49
3:C:119:LEU:HD12	3:C:119:LEU:C	2.37	0.49
4:D:26:ARG:HH11	4:D:26:ARG:HG3	1.76	0.49
4:D:32:TRP:CE3	4:D:35:ILE:HD11	2.47	0.49
4:D:33:SER:OG	4:D:128:ARG:HG3	2.11	0.49
4:D:48:TRP:CZ2	4:D:52:THR:HG21	2.47	0.49
4:D:88:SER:C	4:D:90:LEU:N	2.69	0.49
4:D:103:ARG:HD3	4:D:106:GLN:HE21	1.74	0.49
4:D:246:MET:CE	4:D:264:LYS:HD3	2.43	0.49
4:D:261:PHE:HB2	24:D:1042:PQ9:C10	2.42	0.49
5:E:34:GLY:HA2	6:F:32:PHE:CD1	2.46	0.49
7:H:38:PHE:CZ	7:H:42:LEU:HD21	2.47	0.49
11:L:30:LEU:C	11:L:30:LEU:CD2	2.83	0.49
13:O:111:LEU:HD11	13:O:119:LEU:HB3	1.94	0.49
16:V:67:HIS:CE1	16:V:80:LEU:HD11	2.47	0.49
16:V:96:GLU:O	16:V:97:GLY:C	2.55	0.49
18:Y:43:ARG:CG	18:Y:44:GLY:N	2.66	0.49
2:b:5074:SER:C	2:b:5076:SER:N	2.69	0.49
2:b:5308:LYS:HG2	2:b:5312:TYR:CE2	2.47	0.49
2:b:5401:PHE:CZ	2:b:5406:LEU:HD23	2.47	0.49
3:c:5202:PRO:HB3	3:c:5235:GLY:CA	2.40	0.49
3:c:5265:ILE:CG2	3:c:5270:ALA:CB	2.90	0.49
22:c:6029:CLA:CBA	22:c:6029:CLA:HMA3	2.33	0.49
22:c:6032:CLA:H161	29:c:6056:DGD:HBH1	1.94	0.49
4:d:5193:LEU:HA	4:d:5198:MET:CE	2.43	0.49
4:d:5251:ARG:HH22	4:d:5255:GLN:NE2	2.10	0.49
4:d:5302:GLU:O	4:d:5305:ALA:HB3	2.13	0.49
5:e:5051:ARG:O	5:e:5053:ASP:N	2.46	0.49
10:k:5021:LEU:O	10:k:5024:VAL:N	2.44	0.49
11:l:5030:LEU:C	11:l:5030:LEU:CD2	2.83	0.49
13:o:5116:ASP:OD2	13:o:5157:PRO:HB3	2.12	0.49
13:o:5128:ASP:OD1	13:o:5149:LYS:CG	2.61	0.49
16:v:5090:PRO:O	16:v:5091:PRO:C	2.55	0.49
18:y:5030:ILE:O	18:y:5030:ILE:HD13	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:321:ILE:CD1	4:D:176:ALA:HB1	2.17	0.49
25:A:1044:BCR:C8	25:A:1044:BCR:C33	2.86	0.49
2:B:25:MET:HE2	25:B:1045:BCR:H403	1.94	0.49
2:B:325:PHE:O	2:B:327:THR:HG23	2.12	0.49
22:B:1021:CLA:O1A	22:B:1021:CLA:O2D	2.30	0.49
29:B:1058:DGD:C6D	29:B:1058:DGD:C5E	2.90	0.49
3:C:39:ASN:CB	22:C:1032:CLA:HBA1	2.35	0.49
3:C:62:PHE:HB2	3:C:122:SER:CB	2.42	0.49
3:C:71:GLU:OE1	3:C:89:ILE:HB	2.12	0.49
3:C:344:SER:OG	3:C:345:PRO:HD2	2.12	0.49
22:C:1027:CLA:H141	25:Z:1053:BCR:H333	1.94	0.49
4:D:109:GLY:O	4:D:110:LEU:C	2.55	0.49
4:D:195:PRO:HA	4:D:198:MET:SD	2.53	0.49
4:D:249:ALA:O	4:D:252:PHE:HB3	2.11	0.49
4:D:265:ARG:CD	4:D:265:ARG:C	2.85	0.49
5:E:65:LEU:HD13	5:E:66:VAL:N	2.27	0.49
6:F:29:PRO:O	6:F:32:PHE:HB3	2.11	0.49
7:H:19:GLY:O	7:H:21:VAL:HG12	2.11	0.49
7:H:34:PHE:CD2	22:H:1017:CLA:HAC1	2.47	0.49
7:H:54:ILE:HG22	7:H:55:LEU:N	2.27	0.49
9:J:38:SER:O	9:J:39:SER:CB	2.59	0.49
13:O:223:ILE:HG22	13:O:243:SER:CB	2.36	0.49
20:Z:25:VAL:O	20:Z:28:ALA:HB3	2.12	0.49
2:b:5149:LEU:CD2	22:b:6011:CLA:HBC1	2.42	0.49
2:b:5174:LEU:CD2	2:b:5312:TYR:CE1	2.95	0.49
2:b:5308:LYS:O	2:b:5312:TYR:HD2	1.94	0.49
22:b:6021:CLA:HAA2	22:b:6021:CLA:HBD	1.94	0.49
3:c:5175:LEU:HD23	3:c:5176:VAL:N	2.27	0.49
3:c:5190:ALA:O	3:c:5191:PRO:C	2.54	0.49
3:c:5206:PRO:HG2	3:c:5207:ARG:NH1	2.26	0.49
3:c:5274:TYR:CE1	22:c:6029:CLA:O1D	2.62	0.49
3:c:5324:LEU:CD2	15:u:5032:ILE:HD13	2.43	0.49
3:c:5400:PRO:O	3:c:5401:LEU:HD22	2.12	0.49
3:c:5438:LEU:HD13	3:c:5442:LEU:HD11	1.94	0.49
22:c:6031:CLA:C14	25:c:6054:BCR:H361	2.40	0.49
4:d:5024:ARG:HA	4:d:5024:ARG:HE	1.77	0.49
4:d:5091:LEU:HD23	4:d:5093:TRP:CE2	2.47	0.49
4:d:5120:PHE:O	4:d:5121:GLY:C	2.55	0.49
4:d:5126:MET:CE	4:d:5146:PHE:HB3	2.40	0.49
4:d:5195:PRO:HA	4:d:5198:MET:SD	2.53	0.49
5:e:5032:ILE:HG22	5:e:5033:ALA:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:u:5025:ILE:HD11	15:u:5034:ALA:O	2.13	0.49
1:A:112:TYR:O	1:A:113:GLN:C	2.55	0.49
1:A:135:TYR:CD1	3:C:449:ARG:HG3	2.48	0.49
1:A:215:HIS:O	1:A:219:VAL:HG23	2.11	0.49
1:A:218:LEU:N	1:A:218:LEU:CD2	2.75	0.49
1:A:279:ARG:CZ	1:A:283:VAL:HG21	2.42	0.49
22:A:1006:CLA:H143	24:A:1043:PQ9:H443	1.94	0.49
2:B:16:PRO:O	2:B:20:ILE:HG12	2.12	0.49
2:B:53:ASN:N	2:B:54:PRO:CD	2.74	0.49
22:B:1021:CLA:HAA2	22:B:1021:CLA:HBD	1.94	0.49
3:C:45:LEU:CD2	3:C:141:GLU:OE1	2.60	0.49
22:C:1027:CLA:H141	25:Z:1053:BCR:C33	2.42	0.49
22:C:1033:CLA:CMA	22:K:1034:CLA:HMC2	2.40	0.49
10:K:24:VAL:C	10:K:26:PRO:HD2	2.37	0.49
10:K:37:PHE:HB2	25:K:1051:BCR:H401	1.94	0.49
11:L:9:PRO:HB2	12:m:5034:LYS:HE2	1.93	0.49
18:Y:28:ILE:HG12	18:Y:29:GLY:N	2.27	0.49
1:a:5071:LEU:HD12	1:a:5071:LEU:H	1.78	0.49
1:a:5258:LEU:O	1:a:5259:ILE:HG13	2.12	0.49
2:b:5271:THR:HG23	2:b:5274:GLN:CB	2.42	0.49
2:b:5311:PHE:HA	2:b:5430:PHE:CZ	2.46	0.49
22:b:6014:CLA:HBA1	22:b:6014:CLA:CBD	2.43	0.49
3:c:5048:LYS:HD2	22:c:6035:CLA:CED	2.33	0.49
3:c:5362:ARG:HH22	13:o:5034:ASP:CG	2.20	0.49
22:c:6027:CLA:H141	25:z:6053:BCR:C33	2.42	0.49
22:c:6035:CLA:CMB	25:k:6052:BCR:C27	2.90	0.49
4:d:5196:PHE:HB3	4:d:5281:MET:O	2.12	0.49
9:j:5025:VAL:HA	9:j:5028:PHE:CD2	2.43	0.49
2:B:168:VAL:CG1	2:B:169:SER:N	2.76	0.49
2:B:308:LYS:HG2	2:B:312:TYR:HE2	1.78	0.49
22:B:1011:CLA:H11	22:B:1011:CLA:C4A	2.42	0.49
22:B:1019:CLA:CBB	22:B:1021:CLA:HMB3	2.43	0.49
3:C:179:ALA:CA	3:C:199:ILE:HD13	2.42	0.49
3:C:250:TRP:CD1	3:C:250:TRP:C	2.90	0.49
3:C:265:ILE:CG2	3:C:270:ALA:CB	2.90	0.49
22:C:1030:CLA:CHD	22:C:1030:CLA:HBC3	2.37	0.49
5:E:31:PHE:O	6:F:35:GLY:HA3	2.13	0.49
6:F:19:ARG:HH22	31:F:1040:HEM:CAC	2.17	0.49
1:a:5071:LEU:O	14:t:5003:THR:HG21	2.11	0.49
1:a:5161:TYR:CE2	1:a:5186:PHE:HE2	2.30	0.49
2:b:5018:ARG:HH11	11:l:5004:ASN:HD22	1.60	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5028:ALA:HB2	2:b:5107:LEU:HB2	1.92	0.49
2:b:5090:PHE:C	2:b:5090:PHE:HD2	2.18	0.49
2:b:5109:LEU:O	2:b:5110:ALA:C	2.54	0.49
2:b:5193:TYR:HE1	2:b:5259:GLY:C	2.20	0.49
2:b:5278:SER:HB3	2:b:5281:GLN:CG	2.28	0.49
2:b:5475:PHE:C	2:b:5477:ASP:N	2.69	0.49
3:c:5062:PHE:HB2	3:c:5122:SER:CB	2.42	0.49
3:c:5146:PHE:O	3:c:5147:PHE:CB	2.59	0.49
3:c:5443:TRP:HD1	22:c:6032:CLA:CMD	2.25	0.49
22:c:6028:CLA:H18	29:c:6056:DGD:HA51	1.94	0.49
4:d:5073:PHE:HB2	28:d:6059:MGE:H2B2	1.95	0.49
4:d:5173:PHE:HD1	23:d:6039:PHO:H13	1.76	0.49
4:d:5265:ARG:CD	4:d:5265:ARG:C	2.86	0.49
22:d:6004:CLA:HBC3	22:d:6004:CLA:HHD	1.95	0.49
9:j:5010:LEU:O	9:j:5013:VAL:CG1	2.60	0.49
13:o:5052:ALA:HA	13:o:5230:VAL:O	2.11	0.49
13:o:5148:VAL:HA	13:o:5172:PHE:CE2	2.47	0.49
16:v:5035:THR:HG23	16:v:5046:THR:HA	1.94	0.49
1:A:71:LEU:HD12	1:A:71:LEU:H	1.77	0.49
1:A:113:GLN:HA	1:A:116:ILE:HG22	1.95	0.49
1:A:141:PRO:C	1:A:143:ILE:N	2.71	0.49
1:A:219:VAL:HB	4:D:268:HIS:HB3	1.95	0.49
1:A:224:ILE:HB	1:A:245:THR:O	2.12	0.49
1:A:265:PHE:CE1	24:A:1043:PQ9:H143	2.48	0.49
2:B:97:ALA:O	2:B:99:ALA:N	2.45	0.49
2:B:215:PHE:C	2:B:215:PHE:HD2	2.20	0.49
3:C:209:ILE:HD12	3:C:239:TRP:CD1	2.48	0.49
3:C:270:ALA:O	3:C:273:SER:HB3	2.12	0.49
3:C:296:VAL:HG23	3:C:297:TYR:HD1	1.70	0.49
3:C:327:ASN:C	3:C:328:VAL:HG23	2.37	0.49
3:C:342:MET:HG2	3:C:343:ARG:H	1.77	0.49
3:C:400:PRO:O	3:C:401:LEU:HD22	2.12	0.49
4:D:32:TRP:HB2	4:D:131:GLU:OE1	2.11	0.49
4:D:61:HIS:CE1	4:D:80:THR:CG2	2.96	0.49
4:D:73:PHE:HB2	28:D:1059:MGE:H2B2	1.95	0.49
4:D:152:VAL:HB	22:D:1004:CLA:H43	1.94	0.49
24:D:1042:PQ9:H42	24:D:1042:PQ9:H391	0.62	0.49
7:H:34:PHE:CE2	22:H:1017:CLA:HAC1	2.48	0.49
7:H:40:VAL:O	7:H:44:ILE:HG12	2.13	0.49
10:K:18:PHE:O	10:K:19:ASP:C	2.53	0.49
12:M:32:GLN:NE2	12:m:5034:LYS:HD2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:O:116:ASP:OD2	13:O:157:PRO:HB3	2.12	0.49
13:O:239:GLY:O	13:O:265:PHE:N	2.44	0.49
16:V:96:GLU:O	16:V:99:VAL:N	2.39	0.49
16:V:154:ASP:C	16:V:156:TRP:N	2.70	0.49
17:X:16:LEU:C	17:X:16:LEU:HD23	2.38	0.49
18:Y:43:ARG:N	18:Y:43:ARG:NE	2.61	0.49
1:a:5121:LEU:C	1:a:5123:ALA:N	2.70	0.49
1:a:5135:TYR:CD1	3:c:5449:ARG:HG3	2.48	0.49
1:a:5303:ASN:OD1	1:a:5322:ASN:ND2	2.46	0.49
2:b:5338:GLN:O	2:b:5339:ALA:HB2	2.13	0.49
2:b:5451:PHE:C	2:b:5451:PHE:CD2	2.90	0.49
22:b:6011:CLA:H202	7:h:5038:PHE:HE2	1.78	0.49
3:c:5171:GLY:C	22:c:6025:CLA:HBC3	2.35	0.49
3:c:5209:ILE:HD12	3:c:5239:TRP:CD1	2.48	0.49
4:d:5249:ALA:O	4:d:5252:PHE:HB3	2.12	0.49
4:d:5300:SER:HA	12:m:5002:GLU:O	2.12	0.49
22:h:6017:CLA:HBB1	25:h:6049:BCR:C32	2.42	0.49
25:h:6049:BCR:HC8	25:h:6049:BCR:C32	2.40	0.49
8:i:5024:LEU:C	8:i:5026:GLY:N	2.70	0.49
10:k:5024:VAL:C	10:k:5026:PRO:HD2	2.37	0.49
13:o:5163:THR:O	13:o:5165:SER:N	2.46	0.49
16:v:5109:ASP:OD1	16:v:5111:GLU:HG3	2.12	0.49
16:v:5154:ASP:C	16:v:5156:TRP:H	2.21	0.49
17:x:5013:THR:O	17:x:5014:PRO:C	2.54	0.49
1:A:121:LEU:C	1:A:123:ALA:N	2.70	0.49
1:A:142:TRP:HE1	4:D:219:GLU:CB	2.25	0.49
1:A:161:TYR:CE2	1:A:186:PHE:HE2	2.30	0.49
1:A:187:GLN:NE2	1:A:193:LEU:HB2	2.27	0.49
1:A:225:ARG:CB	2:B:484:PRO:HD3	2.43	0.49
23:A:1038:PHO:O1D	23:A:1038:PHO:C2A	2.57	0.49
2:B:6:TYR:CD2	2:B:6:TYR:N	2.76	0.49
2:B:69:LEU:CD1	22:B:1011:CLA:OBD	2.59	0.49
2:B:115:TRP:HB3	27:B:1067:IOD:I	2.82	0.49
2:B:463:PHE:CE1	22:B:1016:CLA:CBB	2.89	0.49
22:B:1016:CLA:H162	22:D:1008:CLA:HMA3	1.70	0.49
22:B:1016:CLA:C17	22:D:1008:CLA:CMA	2.89	0.49
3:C:29:GLU:HA	3:C:41:ARG:HH11	1.74	0.49
3:C:72:LEU:CD1	3:C:112:PHE:HB2	2.43	0.49
3:C:105:VAL:O	3:C:105:VAL:CG2	2.61	0.49
3:C:438:LEU:CD1	3:C:442:LEU:HD11	2.42	0.49
4:D:101:PHE:O	4:D:101:PHE:CG	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:273:PHE:CE2	28:L:1061:MGE:H5B1	2.47	0.49
4:D:286:VAL:O	4:D:287:VAL:C	2.56	0.49
7:H:18:TYR:CD2	7:H:18:TYR:C	2.90	0.49
9:J:10:LEU:O	9:J:13:VAL:CG1	2.60	0.49
13:O:128:ASP:OD1	13:O:149:LYS:CG	2.61	0.49
16:V:38:LEU:HA	16:V:45:ILE:HD11	1.94	0.49
16:V:64:ALA:O	16:V:68:VAL:N	2.46	0.49
16:V:114:ILE:CD1	31:V:1041:HEM:HBD2	2.43	0.49
16:V:138:LEU:O	16:V:141:ILE:HG22	2.12	0.49
16:V:154:ASP:C	16:V:156:TRP:H	2.21	0.49
1:a:5141:PRO:C	1:a:5143:ILE:N	2.70	0.49
1:a:5221:SER:HA	4:d:5139:ARG:HB2	1.93	0.49
2:b:5069:LEU:HB3	22:b:6014:CLA:HMA1	1.94	0.49
2:b:5121:GLU:CG	7:h:5012:ARG:HD3	2.40	0.49
2:b:5460:LEU:HD12	4:d:5159:ILE:CD1	2.42	0.49
22:b:6015:CLA:HBB1	22:b:6015:CLA:HHC	1.94	0.49
3:c:5449:ARG:HB2	22:c:6029:CLA:CED	2.43	0.49
22:c:6035:CLA:HBB2	22:k:6034:CLA:CMA	2.31	0.49
4:d:5053:THR:CG2	4:d:5067:TYR:HD2	2.26	0.49
4:d:5087:HIS:C	4:d:5167:TRP:HE1	2.20	0.49
4:d:5246:MET:CE	4:d:5264:LYS:HD3	2.43	0.49
5:e:5013:ILE:CG1	5:e:5019:TYR:HB2	2.43	0.49
10:k:5037:PHE:O	10:k:5038:VAL:C	2.55	0.49
17:x:5016:LEU:HD23	17:x:5016:LEU:C	2.38	0.49
18:y:5042:ARG:HB3	18:y:5043:ARG:NE	2.28	0.49
18:y:5043:ARG:CD	20:z:5031:GLN:NE2	2.75	0.49
20:z:5053:VAL:HG12	20:z:5057:LEU:HD12	1.95	0.49
2:B:80:ILE:O	2:B:80:ILE:HG22	2.11	0.49
2:B:120:LEU:HD23	2:B:120:LEU:N	2.28	0.49
2:B:201:HIS:HD2	2:B:202:HIS:CD2	2.30	0.49
2:B:401:PHE:CZ	2:B:406:LEU:HD23	2.47	0.49
2:B:460:LEU:HD12	4:D:159:ILE:CD1	2.42	0.49
3:C:39:ASN:HB3	22:C:1033:CLA:CBB	2.43	0.49
3:C:438:LEU:HD13	3:C:442:LEU:HD11	1.94	0.49
3:C:443:TRP:HD1	22:C:1032:CLA:CMD	2.25	0.49
4:D:80:THR:HA	4:D:111:TRP:CD1	2.47	0.49
4:D:88:SER:CA	7:H:50:ASN:HD21	2.03	0.49
4:D:91:LEU:HD23	4:D:93:TRP:CE2	2.47	0.49
22:D:1004:CLA:HBC3	22:D:1004:CLA:HHD	1.95	0.49
6:F:28:VAL:HB	6:F:29:PRO:CD	2.38	0.49
6:F:32:PHE:CD1	6:F:32:PHE:C	2.87	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:H:12:ARG:NH1	7:H:12:ARG:O	2.45	0.49
9:J:39:SER:O	9:J:40:LEU:HD23	2.13	0.49
14:T:24:ARG:HD2	14:T:24:ARG:C	2.38	0.49
16:V:62:ALA:CB	31:V:1041:HEM:HBB1	2.42	0.49
18:Y:30:ILE:O	18:Y:30:ILE:HD13	2.12	0.49
18:Y:43:ARG:NH1	18:Y:43:ARG:H	2.09	0.49
1:a:5048:PHE:O	1:a:5050:ILE:N	2.46	0.49
1:a:5142:TRP:CH2	26:a:6063:LHG:HC5	2.47	0.49
1:a:5142:TRP:HE1	4:d:5219:GLU:CB	2.25	0.49
1:a:5195:HIS:CE1	1:a:5197:PHE:HB2	2.48	0.49
1:a:5216:GLY:HA3	4:d:5268:HIS:O	2.12	0.49
1:a:5223:LEU:CD2	4:d:5265:ARG:HG2	2.35	0.49
1:a:5265:PHE:CE1	24:a:6043:PQ9:H143	2.48	0.49
1:a:5335:ASN:OD1	1:a:5335:ASN:N	2.43	0.49
2:b:5016:PRO:O	2:b:5020:ILE:HG12	2.12	0.49
2:b:5025:MET:HE2	25:b:6045:BCR:H403	1.94	0.49
2:b:5069:LEU:CD1	22:b:6011:CLA:OBD	2.59	0.49
2:b:5257:TRP:CD2	4:d:5291:LEU:HD22	2.48	0.49
22:b:6018:CLA:HAA2	22:b:6018:CLA:HBD	1.94	0.49
22:b:6021:CLA:HMA2	22:b:6021:CLA:O2A	2.13	0.49
3:c:5414:ILE:CG2	3:c:5415:ASN:N	2.76	0.49
3:c:5440:GLY:O	3:c:5441:HIS:C	2.56	0.49
3:c:5459:ILE:N	4:d:5224:GLN:H	2.08	0.49
4:d:5061:HIS:CE1	4:d:5080:THR:CG2	2.96	0.49
4:d:5088:SER:HB2	5:e:5069:ARG:NH2	2.28	0.49
6:f:5019:ARG:NH2	6:f:5020:TRP:CD1	2.81	0.49
7:h:5007:LEU:HA	7:h:5010:ILE:HD12	1.94	0.49
7:h:5012:ARG:NH1	7:h:5012:ARG:O	2.45	0.49
9:j:5039:SER:O	9:j:5040:LEU:HD23	2.13	0.49
13:o:5105:ASP:O	13:o:5106:GLN:HB2	2.12	0.49
16:v:5067:HIS:CE1	16:v:5080:LEU:HD11	2.47	0.49
1:A:257:ARG:O	1:A:259:ILE:N	2.46	0.49
2:B:52:LEU:CD2	2:B:311:PHE:HD1	2.20	0.49
2:B:338:GLN:O	2:B:339:ALA:HB2	2.13	0.49
2:B:418:LYS:O	2:B:421:ALA:N	2.43	0.49
2:B:457:VAL:CG1	4:D:284:ILE:HG23	2.43	0.49
22:B:1014:CLA:HBA1	22:B:1014:CLA:CBD	2.43	0.49
22:B:1015:CLA:HAC2	25:t:1046:BCR:H282	1.88	0.49
22:B:1016:CLA:H51	22:H:1017:CLA:H91	1.76	0.49
22:B:1021:CLA:O2A	22:B:1021:CLA:HMA2	2.13	0.49
3:C:88:LEU:CD1	22:C:1027:CLA:HBC2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:148:ALA:CB	4:D:149:PRO:HD3	2.29	0.49
4:D:193:LEU:HA	4:D:198:MET:CE	2.43	0.49
22:K:1034:CLA:O1A	22:K:1034:CLA:O2D	2.30	0.49
12:M:20:VAL:HG11	12:m:5020:VAL:CG2	2.43	0.49
12:M:21:PHE:CE1	12:M:25:LEU:HG	2.47	0.49
14:T:19:PHE:N	14:T:19:PHE:HD2	2.10	0.49
16:V:95:ILE:HA	16:V:146:LEU:HD11	1.95	0.49
16:V:103:LYS:CE	16:V:138:LEU:HD12	2.43	0.49
1:a:5118:HIS:O	1:a:5121:LEU:HB3	2.13	0.49
1:a:5227:THR:OG1	1:a:5228:THR:N	2.45	0.49
23:a:6038:PHO:C4C	4:d:5209:LEU:HG	2.43	0.49
2:b:5201:HIS:HD2	2:b:5202:HIS:CD2	2.30	0.49
2:b:5457:VAL:CG1	4:d:5284:ILE:HG23	2.43	0.49
2:b:5486:LEU:O	2:b:5488:PRO:HD3	2.12	0.49
22:b:6010:CLA:O2D	22:b:6010:CLA:O1A	2.30	0.49
22:b:6020:CLA:H111	22:b:6020:CLA:H162	1.95	0.49
22:b:6023:CLA:H93	22:b:6024:CLA:H152	1.95	0.49
3:c:5105:VAL:O	3:c:5105:VAL:CG2	2.61	0.49
3:c:5315:MET:HE2	3:c:5319:ILE:HG13	1.95	0.49
3:c:5437:PHE:O	3:c:5440:GLY:N	2.46	0.49
22:c:6025:CLA:C3A	22:c:6025:CLA:CGA	2.90	0.49
5:e:5007:GLU:OE2	6:f:5019:ARG:HB2	2.13	0.49
7:h:5034:PHE:CD2	22:h:6017:CLA:HAC1	2.47	0.49
11:l:5005:PRO:HG2	11:l:5006:ASN:H	1.77	0.49
13:o:5111:LEU:HD11	13:o:5119:LEU:HB3	1.94	0.49
13:o:5162:ILE:CD1	13:o:5269:ILE:HD12	2.43	0.49
15:u:5085:THR:O	15:u:5086:GLU:C	2.56	0.49
16:v:5160:LYS:O	16:v:5163:TYR:HB2	2.13	0.49
20:z:5015:LEU:HD11	20:z:5046:LEU:HG	1.95	0.49
1:A:48:PHE:O	1:A:50:ILE:N	2.46	0.49
1:A:172:MET:HE2	1:A:179:THR:HA	1.95	0.49
1:A:290:ILE:HA	1:A:290:ILE:HD12	1.65	0.49
2:B:30:VAL:HG13	22:B:1013:CLA:CMD	2.43	0.49
2:B:95:GLY:O	2:B:99:ALA:HB2	2.13	0.49
2:B:297:THR:HB	2:B:300:GLU:H	1.78	0.49
2:B:486:LEU:O	2:B:488:PRO:HD3	2.12	0.49
22:B:1010:CLA:HED3	22:B:1011:CLA:CMA	2.43	0.49
22:B:1020:CLA:H111	22:B:1020:CLA:H162	1.95	0.49
25:B:1047:BCR:H392	25:B:1047:BCR:C22	2.35	0.49
3:C:70:PHE:CD1	10:K:26:PRO:HG3	2.48	0.49
3:C:181:PHE:O	3:C:182:PHE:HD2	1.96	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:314:ALA:HB1	3:C:351:PHE:HD1	1.78	0.49
3:C:316:THR:HG21	16:V:74:THR:HG23	1.94	0.49
3:C:437:PHE:O	3:C:440:GLY:N	2.46	0.49
22:C:1030:CLA:HBD	22:C:1030:CLA:HAA1	1.95	0.49
4:D:14:TRP:CD1	4:D:14:TRP:C	2.91	0.49
4:D:16:ASP:O	4:D:20:ASP:N	2.45	0.49
4:D:33:SER:OG	4:D:128:ARG:HG2	2.12	0.49
4:D:88:SER:HB2	5:E:69:ARG:NH2	2.28	0.49
4:D:194:ASN:C	4:D:194:ASN:OD1	2.55	0.49
4:D:302:GLU:O	4:D:305:ALA:HB3	2.13	0.49
22:D:1005:CLA:H202	22:D:1005:CLA:C15	2.42	0.49
7:H:4:ARG:O	7:H:5:THR:CG2	2.60	0.49
8:I:1:MET:C	8:I:3:THR:N	2.71	0.49
8:I:10:ILE:HD13	8:I:10:ILE:N	2.28	0.49
13:O:148:VAL:HA	13:O:172:PHE:CE2	2.47	0.49
15:U:25:ILE:HD11	15:U:34:ALA:O	2.13	0.49
16:V:70:GLY:O	16:V:157:GLY:O	2.30	0.49
16:V:109:ASP:OD1	16:V:111:GLU:HG3	2.12	0.49
20:Z:53:VAL:HG12	20:Z:57:LEU:HD12	1.95	0.49
1:a:5101:SER:O	1:a:5102:LEU:C	2.56	0.49
1:a:5129:ARG:O	4:d:5256:ILE:HD13	2.13	0.49
1:a:5258:LEU:HD21	4:d:5129:GLN:HG2	1.95	0.49
1:a:5323:ARG:NE	4:d:5332:GLN:HE22	2.11	0.49
2:b:5103:LEU:O	2:b:5104:SER:C	2.56	0.49
2:b:5195:PRO:O	2:b:5196:GLY:C	2.54	0.49
2:b:5278:SER:CB	2:b:5281:GLN:HG2	2.27	0.49
2:b:5355:PHE:HD2	2:b:5355:PHE:N	2.11	0.49
22:b:6021:CLA:O1A	22:b:6021:CLA:O2D	2.30	0.49
29:b:6058:DGD:HE5	29:b:6058:DGD:HD61	1.93	0.49
3:c:5059:LEU:HD21	10:k:5032:PHE:CG	2.47	0.49
3:c:5060:ILE:HG22	22:k:6034:CLA:CMD	2.42	0.49
3:c:5088:LEU:CD1	22:c:6027:CLA:HBC2	2.42	0.49
3:c:5117:VAL:HG11	22:c:6027:CLA:H11	1.95	0.49
3:c:5270:ALA:O	3:c:5273:SER:HB3	2.12	0.49
4:d:5191:TRP:HH2	4:d:5285:GLY:HA3	1.77	0.49
4:d:5261:PHE:HB2	24:d:6042:PQ9:C10	2.43	0.49
4:d:5262:SER:O	4:d:5263:ASN:CB	2.61	0.49
7:h:5018:TYR:C	7:h:5018:TYR:CD2	2.90	0.49
7:h:5038:PHE:CZ	7:h:5042:LEU:HD21	2.47	0.49
13:o:5239:GLY:O	13:o:5265:PHE:N	2.44	0.49
17:x:5019:PHE:O	17:x:5020:PHE:C	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:y:5043:ARG:N	18:y:5043:ARG:NE	2.61	0.49
1:A:76:ASN:ND2	11:L:33:SER:CB	2.67	0.48
1:A:78:ILE:N	1:A:78:ILE:CD1	2.76	0.48
1:A:195:HIS:CE1	1:A:197:PHE:HB2	2.48	0.48
1:A:303:ASN:OD1	1:A:322:ASN:ND2	2.46	0.48
2:B:149:LEU:CD2	22:B:1011:CLA:HBC1	2.43	0.48
2:B:174:LEU:CD2	2:B:312:TYR:CE1	2.95	0.48
2:B:327:THR:HG23	11:L:37:ASN:ND2	2.28	0.48
2:B:475:PHE:C	2:B:477:ASP:N	2.69	0.48
22:B:1019:CLA:CBA	22:B:1019:CLA:CBD	2.92	0.48
3:C:284:PHE:HE1	3:C:431:PHE:CD2	2.31	0.48
3:C:311:GLN:O	3:C:314:ALA:HB3	2.13	0.48
22:C:1028:CLA:H18	29:C:1056:DGD:HA51	1.94	0.48
22:C:1035:CLA:CMB	25:C:1052:BCR:C27	2.90	0.48
4:D:31:GLY:C	4:D:33:SER:N	2.66	0.48
4:D:54:PHE:CB	5:E:47:PHE:CD1	2.96	0.48
22:D:1005:CLA:CBA	24:D:1042:PQ9:H412	2.38	0.48
13:O:236:GLU:C	13:O:237:ILE:HG22	2.37	0.48
20:Z:14:ILE:O	20:Z:18:VAL:HG23	2.13	0.48
20:Z:15:LEU:HD11	20:Z:46:LEU:HG	1.95	0.48
1:a:5111:PRO:HG2	1:a:5112:TYR:N	2.28	0.48
1:a:5115:ILE:HG21	1:a:5174:LEU:HD13	1.93	0.48
1:a:5187:GLN:NE2	1:a:5193:LEU:HB2	2.27	0.48
1:a:5187:GLN:O	1:a:5191:ASN:N	2.37	0.48
1:a:5311:GLY:O	1:a:5312:ASN:C	2.55	0.48
1:a:5321:ILE:HD11	4:d:5176:ALA:CB	2.18	0.48
2:b:5057:ARG:C	2:b:5059:GLY:H	2.21	0.48
2:b:5090:PHE:CZ	2:b:5098:LEU:HD12	2.48	0.48
2:b:5162:PHE:CD2	22:b:6014:CLA:HBC1	2.48	0.48
2:b:5327:THR:HG23	11:l:5037:ASN:ND2	2.28	0.48
3:c:5250:TRP:CD1	3:c:5250:TRP:C	2.90	0.48
3:c:5284:PHE:HE1	3:c:5431:PHE:CD2	2.31	0.48
3:c:5324:LEU:HD11	15:u:5042:TYR:OH	2.13	0.48
3:c:5428:THR:O	3:c:5429:SER:C	2.56	0.48
4:d:5031:GLY:C	4:d:5033:SER:N	2.66	0.48
4:d:5048:TRP:CZ2	4:d:5052:THR:HG21	2.47	0.48
4:d:5286:VAL:O	4:d:5287:VAL:C	2.56	0.48
22:d:6008:CLA:HHC	22:d:6008:CLA:CBB	2.19	0.48
5:e:5023:HIS:HB3	5:e:5027:ILE:HD13	1.95	0.48
13:o:5172:PHE:CG	13:o:5221:GLY:HA3	2.48	0.48
1:A:84:PRO:HA	1:A:112:TYR:CG	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:TRP:O	1:A:285:PHE:C	2.56	0.48
25:A:1044:BCR:HC7	8:I:15:PHE:HZ	1.78	0.48
2:B:18:ARG:NH1	11:L:4:ASN:HB3	2.28	0.48
2:B:355:PHE:CD2	2:B:355:PHE:N	2.81	0.48
2:B:384:ARG:CD	15:U:102:LEU:HD21	2.42	0.48
22:B:1010:CLA:O2D	22:B:1010:CLA:O1A	2.30	0.48
3:C:50:LEU:CD2	3:C:51:GLY:HA2	2.43	0.48
3:C:149:TYR:O	3:C:150:ASP:HB2	2.13	0.48
3:C:457:LYS:HZ2	4:D:228:GLY:HA2	1.75	0.48
3:C:459:ILE:N	4:D:224:GLN:H	2.08	0.48
22:C:1035:CLA:H93	25:C:1052:BCR:C40	2.42	0.48
4:D:53:THR:CG2	4:D:67:TYR:HD2	2.26	0.48
4:D:319:LEU:O	4:D:323:GLU:HG3	2.13	0.48
24:D:1042:PQ9:C24	28:L:1061:MGE:CGB	2.81	0.48
7:H:38:PHE:O	7:H:41:PHE:HB3	2.14	0.48
11:L:5:PRO:HG2	11:L:6:ASN:H	1.78	0.48
13:O:172:PHE:CG	13:O:221:GLY:HA3	2.48	0.48
16:V:148:GLU:N	16:V:149:PRO:HD2	2.29	0.48
20:Z:37:LYS:HG3	20:Z:38:GLN:N	2.28	0.48
1:a:5033:PHE:HB2	1:a:5129:ARG:HB2	1.94	0.48
1:a:5202:VAL:HG22	1:a:5206:PHE:HD1	1.78	0.48
1:a:5225:ARG:CB	2:b:5484:PRO:HD3	2.43	0.48
2:b:5147:GLY:HA2	2:b:5150:CYS:HB3	1.95	0.48
2:b:5308:LYS:HG2	2:b:5312:TYR:HE2	1.78	0.48
22:b:6022:CLA:H11	22:b:6022:CLA:C20	2.43	0.48
3:c:5149:TYR:O	3:c:5150:ASP:HB2	2.13	0.48
3:c:5316:THR:HG21	16:v:5074:THR:HG23	1.94	0.48
8:i:5016:VAL:O	8:i:5020:VAL:CG2	2.61	0.48
10:k:5033:PHE:HA	22:k:6034:CLA:HMA1	1.95	0.48
28:l:6061:MGE:H3B1	28:l:6061:MGE:H6B2	1.58	0.48
12:m:5018:PRO:HG2	12:m:5019:SER:H	1.77	0.48
12:m:5032:GLN:HA	12:m:5032:GLN:NE2	2.27	0.48
13:o:5151:LEU:HD12	13:o:5171:GLU:O	2.13	0.48
15:u:5051:LYS:HG3	15:u:5052:ASN:N	2.23	0.48
16:v:5096:GLU:O	16:v:5097:GLY:C	2.55	0.48
1:A:258:LEU:O	1:A:259:ILE:HG13	2.12	0.48
1:A:308:ASP:OD1	1:A:312:ASN:O	2.31	0.48
1:A:323:ARG:NE	4:D:332:GLN:HE22	2.11	0.48
23:A:1038:PHO:C4C	4:D:209:LEU:HG	2.43	0.48
2:B:66:MET:HE3	2:B:96:VAL:HB	1.94	0.48
2:B:137:LYS:HG3	2:B:217:ILE:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:257:TRP:CD2	4:D:291:LEU:HD22	2.48	0.48
2:B:271:THR:HG23	2:B:274:GLN:CB	2.42	0.48
2:B:324:LEU:HA	4:D:293:LEU:CD2	2.31	0.48
2:B:451:PHE:C	2:B:451:PHE:CD2	2.90	0.48
22:B:1015:CLA:OBD	22:B:1015:CLA:CED	2.38	0.48
3:C:155:ASN:C	3:C:158:THR:HG22	2.38	0.48
3:C:315:MET:HE2	3:C:319:ILE:HG13	1.95	0.48
3:C:406:SER:CB	29:C:1056:DGD:HE1	2.39	0.48
4:D:24:ARG:HA	4:D:24:ARG:HE	1.77	0.48
4:D:302:GLU:HA	4:D:305:ALA:HB2	1.96	0.48
4:D:308:ASP:C	4:D:310:GLU:N	2.72	0.48
4:D:342:PRO:HD2	4:D:345:VAL:HG21	1.94	0.48
22:D:1008:CLA:H61	22:D:1008:CLA:H101	1.69	0.48
5:E:13:ILE:CG1	5:E:19:TYR:HB2	2.43	0.48
6:F:19:ARG:NH2	6:F:20:TRP:CD1	2.81	0.48
13:O:69:LEU:HD11	13:O:71:LEU:CD2	2.43	0.48
16:V:35:THR:CA	16:V:46:THR:HA	2.43	0.48
16:V:39:ASN:HD22	16:V:40:SER:H	1.59	0.48
16:V:160:LYS:O	16:V:163:TYR:HB2	2.13	0.48
1:a:5055:ALA:H	1:a:5070:SER:HB2	1.77	0.48
1:a:5265:PHE:HD1	1:a:5271:LEU:HA	1.79	0.48
1:a:5322:ASN:OD1	3:c:5412:THR:HB	2.12	0.48
25:a:6044:BCR:HC7	8:i:5015:PHE:HZ	1.78	0.48
2:b:5120:LEU:HD23	2:b:5120:LEU:N	2.28	0.48
2:b:5122:LEU:HD21	7:h:5011:LEU:HB2	1.95	0.48
22:b:6009:CLA:OBD	22:b:6010:CLA:CBB	2.55	0.48
22:b:6018:CLA:OBD	22:b:6018:CLA:H13	2.14	0.48
22:b:6021:CLA:O1A	22:b:6021:CLA:C2	2.60	0.48
3:c:5075:PHE:HD1	3:c:5086:LEU:HD11	1.78	0.48
3:c:5181:PHE:O	3:c:5182:PHE:HD2	1.96	0.48
3:c:5212:TYR:HB3	3:c:5223:TRP:O	2.13	0.48
3:c:5351:PHE:CZ	3:c:5366:LEU:HD11	2.48	0.48
4:d:5147:SER:O	4:d:5148:ALA:C	2.55	0.48
4:d:5317:LYS:HG2	27:d:6064:IOD:I	2.82	0.48
4:d:5319:LEU:O	4:d:5323:GLU:HG3	2.13	0.48
28:d:6062:MGE:H231	11:l:5026:VAL:CG2	2.44	0.48
7:h:5034:PHE:CE2	22:h:6017:CLA:HAC1	2.48	0.48
12:m:5008:PHE:O	12:m:5012:ALA:HB3	2.13	0.48
13:o:5128:ASP:OD1	13:o:5149:LYS:HG2	2.13	0.48
13:o:5147:THR:OG1	13:o:5149:LYS:HG3	2.13	0.48
13:o:5214:LYS:HE3	13:o:5251:MET:CG	2.34	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:t:5019:PHE:N	14:t:5019:PHE:HD2	2.10	0.48
15:u:5035:PHE:HD1	15:u:5046:ALA:HB2	1.78	0.48
16:v:5070:GLY:O	16:v:5157:GLY:O	2.30	0.48
16:v:5114:ILE:CD1	31:v:6041:HEM:HBD2	2.43	0.48
20:z:5014:ILE:O	20:z:5018:VAL:HG23	2.13	0.48
1:A:119:PHE:C	1:A:121:LEU:N	2.71	0.48
1:A:129:ARG:O	4:D:256:ILE:HD13	2.13	0.48
1:A:200:LEU:CD2	29:C:1057:DGD:HBW2	2.43	0.48
1:A:255:PHE:O	1:A:256:GLY:C	2.57	0.48
2:B:5:TRP:CD1	2:B:5:TRP:N	2.76	0.48
2:B:373:LYS:H	2:B:373:LYS:HG2	1.32	0.48
22:B:1022:CLA:H62	22:B:1022:CLA:H141	1.75	0.48
3:C:46:SER:OG	3:C:141:GLU:CB	2.60	0.48
3:C:87:ILE:O	3:C:90:PRO:CG	2.61	0.48
3:C:155:ASN:O	3:C:158:THR:CG2	2.61	0.48
3:C:414:ILE:CG2	3:C:415:ASN:N	2.76	0.48
3:C:449:ARG:HB2	22:C:1029:CLA:CED	2.43	0.48
4:D:250:ASN:C	4:D:252:PHE:N	2.72	0.48
25:D:1050:BCR:C20	28:D:1059:MGE:C5A	2.88	0.48
25:K:1051:BCR:C8	25:K:1051:BCR:H311	2.44	0.48
11:L:36:PHE:CZ	14:T:2:GLU:HB3	2.48	0.48
12:M:32:GLN:HE22	12:m:5034:LYS:HA	1.79	0.48
13:O:162:ILE:CD1	13:O:269:ILE:HD12	2.43	0.48
16:V:160:LYS:N	16:V:163:TYR:CE1	2.78	0.48
18:Y:19:ILE:HG22	18:Y:20:ALA:N	2.28	0.48
1:a:5065:GLU:OE1	4:d:5312:GLU:OE2	2.31	0.48
1:a:5308:ASP:OD1	1:a:5312:ASN:O	2.31	0.48
2:b:5025:MET:O	2:b:5028:ALA:N	2.47	0.48
2:b:5109:LEU:C	2:b:5111:ALA:N	2.66	0.48
2:b:5456:ALA:HB1	29:b:6058:DGD:CHB	2.28	0.48
29:b:6058:DGD:HBF2	29:b:6058:DGD:HBG3	1.83	0.48
3:c:5049:LEU:CD1	22:c:6035:CLA:HMA3	2.43	0.48
3:c:5070:PHE:CD1	10:k:5026:PRO:HG3	2.48	0.48
3:c:5087:ILE:O	3:c:5091:HIS:CE1	2.66	0.48
3:c:5119:LEU:C	3:c:5119:LEU:HD12	2.37	0.48
3:c:5155:ASN:C	3:c:5158:THR:HG22	2.38	0.48
22:c:6035:CLA:H93	25:k:6052:BCR:C40	2.42	0.48
4:d:5054:PHE:CB	5:e:5047:PHE:CD1	2.96	0.48
4:d:5058:TRP:NE1	5:e:5064:PRO:HD2	2.21	0.48
4:d:5223:PHE:CZ	4:d:5245:SER:HB2	2.49	0.48
25:d:6050:BCR:H363	6:f:5030:THR:HG23	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:d:6062:MGE:O1A	28:d:6062:MGE:C3B	2.60	0.48
9:j:5008:ILE:HD12	9:j:5008:ILE:N	2.29	0.48
11:l:5036:PHE:CZ	14:t:5002:GLU:HB3	2.48	0.48
15:u:5061:VAL:HG12	15:u:5075:LEU:CD2	2.37	0.48
20:z:5037:LYS:HG3	20:z:5038:GLN:N	2.28	0.48
1:A:118:HIS:O	1:A:121:LEU:HB3	2.13	0.48
1:A:184:ILE:CD1	4:D:186:GLN:HE22	2.26	0.48
2:B:62:VAL:HG13	22:B:1013:CLA:HED2	1.95	0.48
2:B:109:LEU:C	2:B:111:ALA:N	2.66	0.48
2:B:113:TRP:C	2:B:115:TRP:N	2.69	0.48
2:B:326:ARG:HH11	4:D:297:ASP:CA	2.11	0.48
22:B:1019:CLA:HMD1	28:B:1060:MGE:H2G	1.96	0.48
25:B:1047:BCR:C23	25:t:1046:BCR:H353	2.41	0.48
3:C:46:SER:CB	3:C:141:GLU:N	2.77	0.48
3:C:54:VAL:O	3:C:55:ALA:C	2.55	0.48
3:C:212:TYR:HB3	3:C:223:TRP:O	2.13	0.48
3:C:362:ARG:HH22	13:O:34:ASP:CG	2.20	0.48
22:C:1026:CLA:H122	22:C:1026:CLA:C6	2.44	0.48
4:D:106:GLN:C	4:D:108:GLY:N	2.72	0.48
5:E:7:GLU:OE2	6:F:19:ARG:HB2	2.13	0.48
8:I:16:VAL:O	8:I:20:VAL:CG2	2.61	0.48
16:V:61:TYR:C	16:V:63:CYS:N	2.68	0.48
1:a:5126:TYR:O	1:a:5126:TYR:CD2	2.58	0.48
1:a:5224:ILE:HB	1:a:5245:THR:O	2.12	0.48
2:b:5030:VAL:HG13	22:b:6013:CLA:CMD	2.43	0.48
2:b:5040:TYR:O	2:b:5043:ALA:N	2.46	0.48
2:b:5041:GLU:OE1	2:b:5061:PHE:N	2.35	0.48
2:b:5054:PRO:O	2:b:5055:MET:C	2.57	0.48
22:b:6013:CLA:HMB3	22:b:6014:CLA:H11	1.94	0.48
22:b:6019:CLA:CBA	22:b:6019:CLA:CBD	2.92	0.48
3:c:5050:LEU:CD2	3:c:5051:GLY:HA2	2.43	0.48
3:c:5072:LEU:CD1	3:c:5112:PHE:HB2	2.43	0.48
3:c:5311:GLN:O	3:c:5314:ALA:HB3	2.13	0.48
3:c:5342:MET:HG2	3:c:5343:ARG:H	1.77	0.48
25:c:6054:BCR:H24C	25:c:6054:BCR:H371	1.64	0.48
4:d:5015:PHE:CE1	4:d:5032:TRP:CZ2	2.98	0.48
7:h:5040:VAL:O	7:h:5044:ILE:HG12	2.13	0.48
13:o:5200:LEU:HB3	13:o:5203:ALA:HB2	1.94	0.48
15:u:5100:ASN:O	15:u:5100:ASN:OD1	2.32	0.48
16:v:5064:ALA:O	16:v:5068:VAL:N	2.46	0.48
1:A:96:ILE:HD12	22:A:1007:CLA:CMD	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:TRP:CH2	26:A:1063:LHG:HC5	2.47	0.48
1:A:279:ARG:CG	4:D:212:ALA:HB2	2.43	0.48
2:B:18:ARG:HH11	11:L:4:ASN:HD22	1.60	0.48
2:B:25:MET:O	2:B:28:ALA:N	2.47	0.48
2:B:49:ASP:HB2	13:o:5083:LYS:HE3	1.94	0.48
2:B:54:PRO:O	2:B:55:MET:C	2.57	0.48
2:B:83:GLU:HG2	2:B:86:ILE:CD1	2.32	0.48
2:B:103:LEU:O	2:B:104:SER:C	2.56	0.48
2:B:135:LEU:HA	2:B:138:MET:HB3	1.95	0.48
3:C:60:ILE:HA	22:K:1034:CLA:HMD3	1.96	0.48
3:C:176:VAL:HA	3:C:234:VAL:HG23	1.95	0.48
3:C:272:LEU:HD12	3:C:272:LEU:O	2.13	0.48
3:C:370:ARG:HG3	3:C:371:GLY:N	2.28	0.48
3:C:465:PRO:O	3:C:469:MET:HG3	2.13	0.48
22:C:1032:CLA:H3A	22:C:1032:CLA:HBA2	1.40	0.48
4:D:250:ASN:CG	4:D:251:ARG:N	2.70	0.48
25:D:1050:BCR:H363	6:F:30:THR:HG23	1.94	0.48
5:E:47:PHE:O	5:E:49:THR:N	2.41	0.48
7:H:7:LEU:HA	7:H:10:ILE:HD12	1.94	0.48
8:I:1:MET:O	8:I:3:THR:N	2.47	0.48
11:L:8:GLN:HE21	11:L:8:GLN:N	2.07	0.48
13:O:129:PHE:CD2	13:O:129:PHE:C	2.92	0.48
13:O:147:THR:OG1	13:O:149:LYS:HG3	2.13	0.48
15:U:85:THR:O	15:U:86:GLU:C	2.56	0.48
15:U:100:ASN:OD1	15:U:100:ASN:O	2.32	0.48
1:a:5197:PHE:HE1	1:a:5285:PHE:CD2	2.23	0.48
1:a:5257:ARG:O	1:a:5259:ILE:N	2.46	0.48
2:b:5137:LYS:HG3	2:b:5217:ILE:HA	1.95	0.48
2:b:5215:PHE:C	2:b:5215:PHE:HD2	2.20	0.48
3:c:5465:PRO:O	3:c:5469:MET:HG3	2.13	0.48
22:c:6028:CLA:H111	22:c:6028:CLA:H152	1.71	0.48
22:c:6030:CLA:CMB	22:c:6031:CLA:C4B	2.85	0.48
22:c:6032:CLA:H12	22:c:6035:CLA:C3C	2.44	0.48
4:d:5101:PHE:O	4:d:5101:PHE:CG	2.65	0.48
4:d:5250:ASN:C	4:d:5252:PHE:N	2.72	0.48
24:d:6042:PQ9:H312	24:d:6042:PQ9:H27	1.57	0.48
9:j:5010:LEU:H	9:j:5010:LEU:CD1	2.10	0.48
10:k:5028:ILE:HA	10:k:5031:LEU:CD1	2.43	0.48
13:o:5069:LEU:HD12	13:o:5070:CYS:N	2.28	0.48
13:o:5129:PHE:CD2	13:o:5129:PHE:C	2.92	0.48
13:o:5163:THR:HG23	13:o:5165:SER:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:t:5001:MET:HG2	14:t:5002:GLU:N	2.27	0.48
18:y:5019:ILE:HG22	18:y:5020:ALA:N	2.28	0.48
1:A:161:TYR:CZ	1:A:186:PHE:HE2	2.31	0.48
1:A:272:HIS:NE2	4:D:214:HIS:NE2	2.61	0.48
1:A:302:PHE:N	1:A:302:PHE:CD1	2.82	0.48
1:A:340:PRO:HG3	3:C:317:PHE:CZ	2.48	0.48
22:A:1006:CLA:HED3	4:D:175:VAL:HG13	1.96	0.48
2:B:8:VAL:HG21	22:B:1022:CLA:C3D	2.44	0.48
2:B:27:THR:HG22	2:B:107:LEU:HD13	1.96	0.48
2:B:162:PHE:CD2	22:B:1014:CLA:HBC1	2.48	0.48
3:C:263:ALA:HB1	3:C:264:PHE:CD2	2.45	0.48
3:C:305:THR:O	3:C:306:GLY:C	2.56	0.48
22:C:1037:CLA:H8	22:C:1037:CLA:H142	1.96	0.48
4:D:127:LEU:O	4:D:130:PHE:N	2.45	0.48
4:D:155:SER:HA	4:D:159:ILE:CB	2.44	0.48
4:D:183:LEU:HD23	4:D:183:LEU:N	2.14	0.48
9:J:25:VAL:HA	9:J:28:PHE:CD2	2.43	0.48
12:M:34:LYS:HG3	11:l:5009:PRO:CB	2.43	0.48
13:O:128:ASP:OD1	13:O:149:LYS:HG2	2.13	0.48
13:O:163:THR:O	13:O:165:SER:N	2.46	0.48
14:T:1:MET:HG2	14:T:2:GLU:N	2.27	0.48
15:U:78:ASN:O	15:U:80:GLU:N	2.46	0.48
16:V:36:VAL:HG21	16:V:146:LEU:HD12	1.95	0.48
16:V:154:ASP:O	16:V:156:TRP:N	2.47	0.48
18:Y:39:LEU:CD2	20:Z:28:ALA:HB1	2.42	0.48
19:N:1:UNK:O	19:N:2:UNK:CB	2.62	0.48
1:a:5086:SER:C	1:a:5088:ALA:N	2.68	0.48
1:a:5124:SER:OG	1:a:5155:PHE:HE2	1.97	0.48
1:a:5184:ILE:CD1	4:d:5186:GLN:HE22	2.26	0.48
1:a:5200:LEU:CD2	29:c:6057:DGD:HBW2	2.43	0.48
1:a:5269:ARG:HG3	4:d:5235:PHE:HB2	1.93	0.48
1:a:5290:ILE:HG22	1:a:5291:SER:H	1.78	0.48
2:b:5095:GLY:O	2:b:5099:ALA:HB2	2.13	0.48
22:b:6021:CLA:C11	28:b:6060:MGE:H132	2.42	0.48
3:c:5046:SER:CB	3:c:5141:GLU:N	2.77	0.48
3:c:5060:ILE:HA	22:k:6034:CLA:HMD3	1.96	0.48
3:c:5272:LEU:O	3:c:5272:LEU:HD12	2.13	0.48
22:c:6027:CLA:H141	25:z:6053:BCR:H333	1.94	0.48
4:d:5127:LEU:O	4:d:5130:PHE:N	2.45	0.48
5:e:5079:PHE:C	5:e:5083:LEU:HD13	2.38	0.48
7:h:5038:PHE:O	7:h:5041:PHE:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i:5001:MET:C	8:i:5003:THR:N	2.71	0.48
10:k:5032:PHE:CD1	25:k:6052:BCR:C38	2.86	0.48
13:o:5069:LEU:HD11	13:o:5071:LEU:CD2	2.43	0.48
13:o:5215:ARG:H	13:o:5215:ARG:HD3	1.78	0.48
16:v:5036:VAL:HG21	16:v:5146:LEU:HD12	1.95	0.48
19:n:5001:UNK:O	19:n:5002:UNK:CB	2.62	0.48
1:A:24:THR:HG23	3:C:469:MET:HE3	1.95	0.48
1:A:124:SER:OG	1:A:155:PHE:HE2	1.97	0.48
1:A:202:VAL:HG22	1:A:206:PHE:HD1	1.78	0.48
1:A:202:VAL:HG23	22:A:1003:CLA:HMB2	1.95	0.48
1:A:214:MET:HE3	1:A:255:PHE:CZ	2.49	0.48
1:A:311:GLY:O	1:A:312:ASN:C	2.55	0.48
2:B:108:PHE:C	2:B:111:ALA:HB3	2.38	0.48
2:B:460:LEU:HD23	4:D:280:TRP:CZ3	2.49	0.48
22:B:1021:CLA:HMD2	22:B:1022:CLA:CBB	2.34	0.48
22:B:1022:CLA:C3D	22:B:1022:CLA:H201	2.44	0.48
22:B:1022:CLA:H203	22:B:1022:CLA:C2	2.44	0.48
25:B:1048:BCR:C8	25:B:1048:BCR:C33	2.81	0.48
3:C:87:ILE:O	3:C:91:HIS:CE1	2.66	0.48
3:C:168:LEU:C	3:C:170:ILE:N	2.71	0.48
3:C:305:THR:HG23	3:C:308:GLU:H	1.79	0.48
29:C:1056:DGD:HBF1	29:C:1056:DGD:HB81	1.95	0.48
4:D:49:LEU:HD13	25:D:1050:BCR:C15	2.44	0.48
4:D:302:GLU:OE1	13:O:186:LYS:HD3	2.14	0.48
6:F:20:TRP:HE1	31:F:1040:HEM:CHD	2.27	0.48
13:O:69:LEU:HD12	13:O:70:CYS:N	2.28	0.48
14:T:18:PHE:CD1	25:T:6046:BCR:H332	2.48	0.48
25:T:6046:BCR:H282	22:b:6015:CLA:HAC2	1.88	0.48
15:U:17:LEU:O	15:U:17:LEU:HD23	2.13	0.48
1:a:5024:THR:HG23	3:c:5469:MET:HE3	1.95	0.48
1:a:5214:MET:HE3	1:a:5255:PHE:CZ	2.49	0.48
1:a:5329:GLU:O	1:a:5332:HIS:ND1	2.47	0.48
2:b:5002:GLY:HA2	11:l:5011:GLU:HB2	1.96	0.48
2:b:5070:GLY:HA2	2:b:5178:VAL:HG21	1.96	0.48
2:b:5135:LEU:HA	2:b:5138:MET:HB3	1.95	0.48
3:c:5049:LEU:CD1	22:c:6035:CLA:CMA	2.88	0.48
3:c:5314:ALA:HB1	3:c:5351:PHE:HD1	1.78	0.48
22:c:6033:CLA:C14	22:c:6033:CLA:C17	2.68	0.48
29:c:6055:DGD:C6A	29:c:6055:DGD:CAA	2.85	0.48
5:e:5027:ILE:HG13	31:f:6040:HEM:HMB1	1.95	0.48
8:i:5001:MET:C	8:i:5003:THR:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:i:5001:MET:O	8:i:5003:THR:N	2.47	0.48
13:o:5052:ALA:O	13:o:5053:ARG:CB	2.62	0.48
15:u:5078:ASN:O	15:u:5080:GLU:N	2.46	0.48
16:v:5046:THR:O	16:v:5047:LEU:CB	2.58	0.48
1:A:111:PRO:HG2	1:A:112:TYR:N	2.28	0.48
22:A:1003:CLA:CED	22:A:1003:CLA:CGA	2.92	0.48
24:A:1043:PQ9:H453	24:A:1043:PQ9:H401	1.96	0.48
2:B:40:TYR:O	2:B:43:ALA:N	2.46	0.48
2:B:334:ASP:OD2	2:B:334:ASP:N	2.32	0.48
22:B:1023:CLA:H93	22:B:1024:CLA:H152	1.95	0.48
3:C:117:VAL:HG11	22:C:1027:CLA:H12	1.94	0.48
3:C:157:MET:HB3	22:C:1031:CLA:HBC1	1.95	0.48
3:C:324:LEU:HD11	15:U:42:TYR:OH	2.13	0.48
3:C:351:PHE:CZ	3:C:366:LEU:HD11	2.48	0.48
3:C:440:GLY:O	3:C:441:HIS:C	2.56	0.48
22:C:1037:CLA:HBA2	22:C:1037:CLA:H3A	1.44	0.48
5:E:13:ILE:HD12	5:E:16:SER:CB	2.44	0.48
10:K:21:LEU:O	10:K:22:VAL:C	2.57	0.48
25:K:1051:BCR:H23C	25:K:1051:BCR:H392	1.96	0.48
12:M:20:VAL:HG22	12:m:5020:VAL:HG11	1.95	0.48
1:a:5041:LEU:CD1	1:a:5119:PHE:HA	2.44	0.48
1:a:5061:ASP:HB2	1:a:5063:ILE:CD1	2.44	0.48
1:a:5078:ILE:N	1:a:5078:ILE:CD1	2.76	0.48
1:a:5093:PHE:HB2	3:c:5218:PHE:CD2	2.47	0.48
22:a:6006:CLA:HED3	4:d:5175:VAL:HG13	1.96	0.48
22:a:6007:CLA:C6	22:a:6007:CLA:C11	2.92	0.48
2:b:5025:MET:O	2:b:5026:HIS:C	2.56	0.48
2:b:5122:LEU:HD21	7:h:5012:ARG:N	2.29	0.48
2:b:5162:PHE:CD1	2:b:5162:PHE:C	2.92	0.48
2:b:5309:LEU:O	2:b:5310:ALA:C	2.57	0.48
2:b:5400:SER:HA	2:b:5410:THR:HG22	1.96	0.48
2:b:5452:THR:HG22	4:d:5291:LEU:HD11	1.95	0.48
2:b:5477:ASP:OD2	4:d:5134:ARG:NH1	2.43	0.48
22:b:6010:CLA:HED3	22:b:6011:CLA:CMA	2.43	0.48
3:c:5169:GLY:HA2	3:c:5241:GLY:HA2	1.96	0.48
3:c:5212:TYR:O	3:c:5215:LYS:HB2	2.13	0.48
3:c:5274:TYR:HB2	3:c:5275:SER:H	1.40	0.48
4:d:5301:GLN:HE22	4:d:5313:THR:HG21	1.79	0.48
22:d:6008:CLA:OBD	22:d:6008:CLA:HED3	2.14	0.48
10:k:5035:LEU:O	10:k:5037:PHE:N	2.46	0.48
13:o:5059:ASP:HB2	13:o:5062:GLN:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:v:5038:LEU:HA	16:v:5045:ILE:HD11	1.95	0.48
16:v:5148:GLU:N	16:v:5149:PRO:HD2	2.29	0.48
16:v:5154:ASP:C	16:v:5156:TRP:N	2.70	0.48
1:A:128:GLY:C	1:A:130:GLN:N	2.72	0.48
1:A:228:THR:CG2	1:A:229:GLU:H	2.10	0.48
1:A:288:LEU:HD21	3:C:435:PHE:CD2	2.49	0.48
22:A:1006:CLA:HBC1	4:D:182:LEU:CD2	2.41	0.48
2:B:277:SER:C	2:B:279:TYR:N	2.71	0.48
2:B:374:ASN:N	2:B:374:ASN:ND2	2.58	0.48
22:B:1010:CLA:H151	29:B:1058:DGD:C8A	2.38	0.48
22:B:1022:CLA:O1D	22:B:1022:CLA:C1	2.62	0.48
22:B:1022:CLA:H11	22:B:1022:CLA:C20	2.43	0.48
3:C:212:TYR:O	3:C:215:LYS:HB2	2.13	0.48
3:C:342:MET:HB2	3:C:352:GLY:HA3	1.96	0.48
4:D:251:ARG:HH22	4:D:255:GLN:NE2	2.10	0.48
5:E:23:HIS:HB3	5:E:27:ILE:HD13	1.95	0.48
1:a:5340:PRO:HG3	3:c:5317:PHE:CZ	2.48	0.48
22:a:6006:CLA:HAA2	29:c:6057:DGD:HBN1	1.96	0.48
2:b:5460:LEU:HD23	4:d:5280:TRP:CZ3	2.49	0.48
22:b:6018:CLA:HBB2	22:h:6017:CLA:H2	1.96	0.48
3:c:5054:VAL:O	3:c:5055:ALA:C	2.55	0.48
3:c:5292:PHE:CE1	29:c:6055:DGD:HD1	2.49	0.48
3:c:5305:THR:O	3:c:5306:GLY:C	2.56	0.48
3:c:5370:ARG:HG3	3:c:5371:GLY:N	2.28	0.48
4:d:5299:ILE:C	4:d:5301:GLN:N	2.72	0.48
4:d:5302:GLU:OE1	13:o:5186:LYS:HD3	2.14	0.48
22:d:6005:CLA:HBC2	22:d:6005:CLA:CHD	2.41	0.48
10:k:5021:LEU:O	10:k:5022:VAL:C	2.57	0.48
14:t:5022:PHE:N	14:t:5022:PHE:CD1	2.79	0.48
14:t:5024:ARG:HD2	14:t:5024:ARG:C	2.38	0.48
16:v:5114:ILE:O	16:v:5114:ILE:CG1	2.62	0.48
16:v:5125:ASP:CG	16:v:5126:ILE:HD13	2.39	0.48
1:A:65:GLU:OE1	4:D:312:GLU:OE2	2.31	0.47
1:A:119:PHE:CD1	23:A:1038:PHO:H122	2.50	0.47
1:A:131:TRP:HD1	1:A:141:PRO:HB2	1.79	0.47
2:B:174:LEU:CD2	2:B:312:TYR:CZ	2.94	0.47
2:B:457:VAL:CG2	4:D:284:ILE:HG23	2.44	0.47
3:C:117:VAL:HG11	22:C:1027:CLA:H11	1.95	0.47
3:C:164:HIS:HD1	3:C:164:HIS:H	1.61	0.47
22:C:1033:CLA:H141	22:C:1036:CLA:CMD	2.44	0.47
7:H:10:ILE:O	7:H:10:ILE:HG22	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:K:28:ILE:HA	10:K:31:LEU:CD1	2.43	0.47
12:M:8:PHE:O	12:M:12:ALA:HB3	2.13	0.47
13:O:151:LEU:HD12	13:O:171:GLU:O	2.13	0.47
16:V:114:ILE:O	16:V:114:ILE:CG1	2.62	0.47
1:a:5113:GLN:HA	1:a:5116:ILE:HG22	1.94	0.47
1:a:5172:MET:HB2	1:a:5182:PHE:CD2	2.49	0.47
1:a:5302:PHE:CD1	1:a:5302:PHE:N	2.82	0.47
1:a:5340:PRO:HD3	15:u:5103:TYR:HE2	1.77	0.47
2:b:5018:ARG:NH1	11:l:5004:ASN:HB3	2.28	0.47
2:b:5188:ASP:HB2	7:h:5058:VAL:HG22	1.96	0.47
2:b:5297:THR:HB	2:b:5300:GLU:H	1.78	0.47
2:b:5326:ARG:HE	4:d:5297:ASP:HB2	1.78	0.47
2:b:5461:LEU:O	2:b:5464:PHE:HB3	2.14	0.47
22:b:6022:CLA:H203	22:b:6022:CLA:C2	2.44	0.47
3:c:5168:LEU:C	3:c:5170:ILE:N	2.71	0.47
3:c:5342:MET:HB2	3:c:5352:GLY:HA3	1.96	0.47
22:c:6037:CLA:H8	22:c:6037:CLA:H142	1.96	0.47
4:d:5250:ASN:CG	4:d:5251:ARG:N	2.70	0.47
4:d:5286:VAL:HG13	4:d:5287:VAL:N	2.28	0.47
28:d:6062:MGE:H251	28:d:6062:MGE:CBB	2.44	0.47
6:f:5041:GLN:HE22	9:j:5028:PHE:HA	1.74	0.47
22:k:6034:CLA:H91	22:k:6034:CLA:C12	2.44	0.47
13:o:5134:VAL:HG23	13:o:5142:ILE:CG2	2.44	0.47
25:t:1046:BCR:H23C	25:t:1046:BCR:C40	2.36	0.47
16:v:5035:THR:CB	16:v:5046:THR:HA	2.44	0.47
1:A:40:THR:HG21	1:A:122:GLY:N	2.25	0.47
1:A:101:SER:O	1:A:102:LEU:C	2.56	0.47
1:A:214:MET:O	1:A:217:SER:HB3	2.15	0.47
1:A:215:HIS:NE2	1:A:272:HIS:CE1	2.82	0.47
1:A:303:ASN:N	1:A:303:ASN:ND2	2.60	0.47
2:B:49:ASP:OD1	2:B:49:ASP:O	2.32	0.47
2:B:122:LEU:HD21	7:H:12:ARG:N	2.29	0.47
2:B:355:PHE:HD2	2:B:355:PHE:N	2.11	0.47
2:B:452:THR:HG22	4:D:291:LEU:HD11	1.95	0.47
2:B:461:LEU:O	2:B:464:PHE:HB3	2.14	0.47
22:B:1021:CLA:C11	28:B:1060:MGE:H132	2.42	0.47
4:D:37:LEU:CD2	4:D:128:ARG:HD3	2.27	0.47
4:D:84:SER:O	5:E:69:ARG:HB3	2.14	0.47
4:D:113:PHE:O	4:D:114:ILE:C	2.57	0.47
4:D:223:PHE:CZ	4:D:245:SER:HB2	2.48	0.47
28:D:1062:MGE:H231	11:L:26:VAL:CG2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:L:9:PRO:CB	12:m:5034:LYS:HE2	2.44	0.47
12:M:9:ILE:O	12:M:13:LEU:HB2	2.15	0.47
16:V:101:TYR:HA	16:V:104:ASN:O	2.14	0.47
16:V:125:ASP:CG	16:V:126:ILE:HD13	2.39	0.47
1:a:5084:PRO:HA	1:a:5112:TYR:CG	2.48	0.47
1:a:5119:PHE:CD1	23:a:6038:PHO:H122	2.50	0.47
1:a:5161:TYR:CZ	1:a:5186:PHE:HE2	2.32	0.47
24:a:6043:PQ9:H311	24:a:6043:PQ9:H291	1.67	0.47
2:b:5456:ALA:CA	29:b:6058:DGD:HBV1	2.42	0.47
22:b:6022:CLA:O1D	22:b:6022:CLA:C1	2.62	0.47
3:c:5039:ASN:HB3	22:c:6033:CLA:CBB	2.43	0.47
3:c:5087:ILE:O	3:c:5090:PRO:CG	2.61	0.47
3:c:5093:ALA:HB1	3:c:5099:VAL:HG21	1.96	0.47
3:c:5377:LEU:HD11	3:c:5381:LYS:NZ	2.29	0.47
5:e:5031:PHE:O	6:f:5035:GLY:HA3	2.13	0.47
6:f:5020:TRP:HE1	31:f:6040:HEM:CHD	2.27	0.47
12:m:5006:LEU:O	12:m:5007:GLY:C	2.56	0.47
15:u:5064:ILE:O	15:u:5067:LEU:HG	2.14	0.47
1:A:61:ASP:HB2	1:A:63:ILE:CD1	2.44	0.47
1:A:172:MET:HB2	1:A:182:PHE:CD2	2.50	0.47
1:A:224:ILE:O	2:B:481:GLY:HA2	2.15	0.47
1:A:340:PRO:HB3	15:U:103:TYR:CD2	2.49	0.47
23:A:1038:PHO:H93	23:A:1038:PHO:H62	1.68	0.47
2:B:90:PHE:CZ	2:B:98:LEU:HD12	2.48	0.47
2:B:147:GLY:HA2	2:B:150:CYS:HB3	1.95	0.47
22:C:1026:CLA:H62	22:C:1026:CLA:H2	1.63	0.47
29:C:1056:DGD:O1A	29:C:1056:DGD:C5A	2.62	0.47
4:D:261:PHE:H	24:D:1042:PQ9:H93	1.73	0.47
7:H:31:MET:HE3	7:H:35:MET:SD	2.54	0.47
13:O:52:ALA:O	13:O:53:ARG:CB	2.62	0.47
13:O:163:THR:HG23	13:O:165:SER:H	1.78	0.47
16:V:90:PRO:HB2	16:V:91:PRO:HD2	1.96	0.47
1:a:5096:ILE:HD12	22:a:6007:CLA:CMD	2.43	0.47
1:a:5202:VAL:HG23	22:a:6003:CLA:HMB2	1.95	0.47
24:a:6043:PQ9:H453	24:a:6043:PQ9:H401	1.96	0.47
2:b:5329:PRO:C	2:b:5331:ASN:N	2.73	0.47
2:b:5384:ARG:CD	15:u:5102:LEU:HD21	2.42	0.47
22:b:6018:CLA:H91	22:b:6023:CLA:H3A	1.96	0.47
3:c:5070:PHE:O	3:c:5074:HIS:ND1	2.47	0.47
3:c:5441:HIS:C	3:c:5441:HIS:ND1	2.72	0.47
4:d:5038:PHE:N	4:d:5039:PRO:HD2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5193:LEU:HA	4:d:5198:MET:HE3	1.96	0.47
16:v:5054:GLU:O	16:v:5058:LEU:HB2	2.15	0.47
16:v:5095:ILE:HA	16:v:5146:LEU:HD11	1.95	0.47
25:z:6053:BCR:H372	25:z:6053:BCR:C36	2.14	0.47
1:A:327:GLY:HA2	4:D:328:TRP:CD1	2.50	0.47
2:B:2:GLY:HA2	11:L:11:GLU:HB2	1.96	0.47
2:B:57:ARG:C	2:B:59:GLY:H	2.21	0.47
2:B:162:PHE:CD1	2:B:162:PHE:C	2.92	0.47
2:B:171:PRO:HB3	2:B:279:TYR:OH	2.15	0.47
2:B:199:VAL:O	2:B:203:ILE:HG22	2.15	0.47
2:B:237:VAL:C	22:B:1020:CLA:HMD1	2.39	0.47
2:B:271:THR:H	2:B:274:GLN:NE2	2.13	0.47
2:B:271:THR:N	2:B:274:GLN:NE2	2.62	0.47
2:B:309:LEU:O	2:B:310:ALA:C	2.57	0.47
2:B:397:VAL:HG12	2:B:398:THR:N	2.29	0.47
2:B:400:SER:HA	2:B:410:THR:HG22	1.96	0.47
22:B:1018:CLA:OBD	22:B:1018:CLA:H13	2.14	0.47
3:C:441:HIS:C	3:C:441:HIS:ND1	2.72	0.47
3:C:447:ARG:O	3:C:450:ALA:HB3	2.15	0.47
4:D:172:SER:OG	4:D:177:ALA:HB1	2.14	0.47
4:D:269:PHE:CD1	4:D:269:PHE:C	2.92	0.47
4:D:299:ILE:C	4:D:301:GLN:N	2.72	0.47
22:D:1008:CLA:HED3	22:D:1008:CLA:OBD	2.14	0.47
10:K:28:ILE:HA	10:K:31:LEU:CG	2.45	0.47
12:M:17:VAL:N	12:M:18:PRO:HD2	2.29	0.47
13:O:45:CYS:N	13:O:72:GLN:NE2	2.61	0.47
13:O:128:ASP:O	13:O:147:THR:HA	2.15	0.47
20:Z:27:TYR:HE2	20:Z:40:ILE:HD13	1.79	0.47
1:a:5063:ILE:CG1	1:a:5064:ARG:N	2.76	0.47
1:a:5172:MET:HE2	1:a:5179:THR:HA	1.95	0.47
1:a:5244:GLU:HG2	4:d:5264:LYS:HZ2	1.79	0.47
22:a:6006:CLA:H143	24:a:6043:PQ9:H443	1.94	0.47
2:b:5008:VAL:HG21	22:b:6022:CLA:C3D	2.44	0.47
2:b:5026:HIS:HB2	22:b:6020:CLA:CMB	2.44	0.47
2:b:5277:SER:C	2:b:5279:TYR:N	2.71	0.47
22:b:6023:CLA:H142	22:b:6023:CLA:H111	1.61	0.47
4:d:5172:SER:OG	4:d:5177:ALA:HB1	2.14	0.47
4:d:5269:PHE:O	4:d:5272:LEU:N	2.38	0.47
5:e:5013:ILE:HD12	5:e:5016:SER:CB	2.44	0.47
6:f:5028:VAL:HB	6:f:5029:PRO:CD	2.38	0.47
25:k:6051:BCR:C8	25:k:6051:BCR:H311	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:m:5009:ILE:O	12:m:5013:LEU:HB2	2.14	0.47
13:o:5266:TYR:O	13:o:5267:ALA:HB2	2.15	0.47
16:v:5154:ASP:O	16:v:5156:TRP:N	2.47	0.47
20:z:5037:LYS:CG	20:z:5038:GLN:N	2.77	0.47
1:A:41:LEU:CD1	1:A:119:PHE:HA	2.44	0.47
1:A:259:ILE:HD12	1:A:259:ILE:O	2.15	0.47
2:B:65:PHE:O	2:B:67:ALA:N	2.48	0.47
2:B:122:LEU:HD21	7:H:11:LEU:HB2	1.95	0.47
2:B:346:PHE:CZ	2:B:421:ALA:HA	2.49	0.47
3:C:187:ASP:CB	3:C:190:ALA:HB2	2.44	0.47
3:C:191:PRO:O	3:C:192:GLY:C	2.58	0.47
3:C:213:LEU:HD21	25:C:1054:BCR:H372	1.97	0.47
3:C:428:THR:O	3:C:429:SER:C	2.56	0.47
22:C:1029:CLA:HMA3	22:C:1029:CLA:HAA2	1.58	0.47
4:D:27:PHE:CD1	4:D:28:VAL:HG23	2.50	0.47
4:D:48:TRP:CE2	4:D:52:THR:HG21	2.49	0.47
4:D:87:HIS:C	4:D:167:TRP:HE1	2.20	0.47
1:a:5288:LEU:HD21	3:c:5435:PHE:CD2	2.49	0.47
2:b:5027:THR:HG22	2:b:5107:LEU:HD13	1.96	0.47
2:b:5052:LEU:C	2:b:5054:PRO:HD3	2.39	0.47
2:b:5271:THR:N	2:b:5274:GLN:NE2	2.62	0.47
3:c:5155:ASN:O	3:c:5158:THR:CG2	2.61	0.47
3:c:5447:ARG:O	3:c:5450:ALA:HB3	2.15	0.47
4:d:5049:LEU:HD13	25:d:6050:BCR:C15	2.44	0.47
4:d:5106:GLN:C	4:d:5108:GLY:N	2.72	0.47
11:l:5026:VAL:HG12	11:l:5027:LEU:HD23	1.96	0.47
15:u:5017:LEU:O	15:u:5017:LEU:HD23	2.13	0.47
15:u:5071:GLN:O	15:u:5072:LYS:C	2.57	0.47
16:v:5101:TYR:HA	16:v:5104:ASN:O	2.14	0.47
22:A:1006:CLA:HAA2	29:C:1057:DGD:HBN1	1.96	0.47
2:B:2:GLY:CA	11:L:11:GLU:HB2	2.44	0.47
2:B:23:HIS:C	2:B:25:MET:H	2.21	0.47
2:B:26:HIS:HB2	22:B:1020:CLA:CMB	2.44	0.47
2:B:196:GLY:O	2:B:198:VAL:N	2.47	0.47
2:B:326:ARG:HE	4:D:297:ASP:HB2	1.78	0.47
22:B:1018:CLA:H91	22:B:1023:CLA:H3A	1.96	0.47
3:C:292:PHE:CE1	29:C:1055:DGD:HD1	2.49	0.47
3:C:327:ASN:ND2	3:C:330:SER:H	2.09	0.47
22:C:1028:CLA:O1D	29:C:1056:DGD:HE62	2.15	0.47
22:C:1029:CLA:HBD	22:C:1029:CLA:HAA1	1.97	0.47
4:D:125:PHE:CD1	4:D:125:PHE:C	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:286:VAL:HG13	4:D:287:VAL:N	2.28	0.47
28:D:1062:MGE:CBB	28:D:1062:MGE:H251	2.43	0.47
9:J:8:ILE:HD12	9:J:8:ILE:N	2.29	0.47
9:J:31:GLY:O	9:J:35:GLY:CA	2.58	0.47
15:U:35:PHE:HD1	15:U:46:ALA:HB2	1.78	0.47
20:Z:16:SER:HA	20:Z:19:MET:HB2	1.97	0.47
1:a:5131:TRP:HD1	1:a:5141:PRO:HB2	1.79	0.47
1:a:5316:THR:C	1:a:5318:ALA:N	2.72	0.47
2:b:5196:GLY:O	2:b:5198:VAL:N	2.47	0.47
2:b:5457:VAL:CG2	4:d:5284:ILE:HG23	2.44	0.47
2:b:5461:LEU:O	2:b:5464:PHE:N	2.37	0.47
22:b:6009:CLA:CBA	22:b:6009:CLA:O2D	2.60	0.47
22:b:6019:CLA:CBB	22:b:6021:CLA:HMB3	2.43	0.47
22:b:6022:CLA:C3D	22:b:6022:CLA:H201	2.44	0.47
3:c:5164:HIS:H	3:c:5164:HIS:HD1	1.61	0.47
3:c:5187:ASP:CB	3:c:5190:ALA:HB2	2.44	0.47
3:c:5370:ARG:HD2	13:o:5033:TYR:CD1	2.50	0.47
3:c:5403:SER:OG	3:c:5405:ASN:HB3	2.15	0.47
22:c:6029:CLA:HBD	22:c:6029:CLA:HAA1	1.97	0.47
4:d:5084:SER:O	5:e:5069:ARG:HB3	2.14	0.47
4:d:5302:GLU:HA	4:d:5305:ALA:HB2	1.96	0.47
25:d:6050:BCR:H24C	25:d:6050:BCR:H371	1.64	0.47
28:d:6062:MGE:O1B	28:d:6062:MGE:C3G	2.34	0.47
5:e:5013:ILE:HD12	5:e:5016:SER:HB3	1.96	0.47
6:f:5040:MET:C	6:f:5042:PHE:N	2.71	0.47
25:k:6051:BCR:H23C	25:k:6051:BCR:H392	1.95	0.47
12:m:5009:ILE:O	12:m:5013:LEU:HD23	2.15	0.47
12:m:5017:VAL:N	12:m:5018:PRO:HD2	2.29	0.47
20:z:5027:TYR:HE2	20:z:5040:ILE:HD13	1.79	0.47
1:A:157:VAL:O	1:A:158:PHE:HD2	1.98	0.47
1:A:254:TYR:CD1	1:A:254:TYR:C	2.93	0.47
1:A:258:LEU:HD21	4:D:129:GLN:HG2	1.95	0.47
1:A:290:ILE:HG22	1:A:291:SER:H	1.78	0.47
25:A:1044:BCR:HC7	8:I:15:PHE:CZ	2.50	0.47
2:B:23:HIS:C	2:B:25:MET:N	2.73	0.47
2:B:46:ASP:H	2:B:58:GLN:HE22	1.63	0.47
2:B:355:PHE:O	2:B:370:LEU:HA	2.15	0.47
22:B:1011:CLA:H202	7:H:38:PHE:HE2	1.78	0.47
22:B:1013:CLA:HMB3	22:B:1014:CLA:H11	1.94	0.47
22:B:1018:CLA:HBB2	22:H:1017:CLA:H2	1.96	0.47
3:C:83:GLU:CD	16:V:129:LYS:HZ1	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:165:LEU:O	3:C:244:CYS:SG	2.73	0.47
3:C:169:GLY:HA2	3:C:241:GLY:HA2	1.96	0.47
3:C:362:ARG:HD2	3:C:367:GLU:CD	2.40	0.47
3:C:370:ARG:HD2	13:O:33:TYR:CD1	2.50	0.47
3:C:377:LEU:HD11	3:C:381:LYS:NZ	2.29	0.47
3:C:406:SER:O	3:C:418:ASN:HB2	2.15	0.47
25:C:1054:BCR:H371	25:C:1054:BCR:H24C	1.63	0.47
4:D:38:PHE:N	4:D:39:PRO:HD2	2.29	0.47
4:D:64:ALA:O	4:D:71:CYS:SG	2.72	0.47
4:D:82:ALA:C	4:D:84:SER:N	2.73	0.47
4:D:185:PHE:O	4:D:189:HIS:N	2.48	0.47
4:D:193:LEU:HA	4:D:198:MET:HE3	1.96	0.47
4:D:214:HIS:CA	4:D:217:THR:HG22	2.45	0.47
4:D:301:GLN:HE22	4:D:313:THR:HG21	1.79	0.47
24:D:1042:PQ9:C40	11:L:30:LEU:HD12	2.38	0.47
6:F:17:THR:O	6:F:18:VAL:C	2.58	0.47
6:F:40:MET:C	6:F:42:PHE:N	2.71	0.47
8:I:1:MET:C	8:I:3:THR:H	2.22	0.47
12:M:34:LYS:HA	12:m:5032:GLN:NE2	2.30	0.47
13:O:104:LEU:HD12	13:O:104:LEU:C	2.40	0.47
13:O:148:VAL:CG2	13:O:151:LEU:HD22	2.45	0.47
13:O:170:GLY:O	13:O:222:GLN:HA	2.14	0.47
13:O:215:ARG:HD3	13:O:215:ARG:H	1.78	0.47
13:O:241:PHE:HE1	13:O:261:ILE:HG22	1.79	0.47
13:O:266:TYR:O	13:O:267:ALA:HB2	2.15	0.47
15:U:27:LEU:HD21	15:U:82:PHE:CD1	2.46	0.47
15:U:43:PRO:HG3	16:V:109:ASP:HA	1.97	0.47
16:V:35:THR:CB	16:V:46:THR:HA	2.44	0.47
16:V:83:GLU:O	16:V:87:LEU:HG	2.15	0.47
19:N:4:UNK:C	19:N:6:UNK:N	2.74	0.47
1:a:5112:TYR:O	1:a:5113:GLN:C	2.55	0.47
1:a:5128:GLY:C	1:a:5130:GLN:N	2.72	0.47
1:a:5157:VAL:O	1:a:5158:PHE:HD2	1.98	0.47
1:a:5214:MET:O	1:a:5217:SER:HB3	2.15	0.47
1:a:5255:PHE:O	1:a:5256:GLY:C	2.56	0.47
1:a:5259:ILE:HD12	1:a:5259:ILE:O	2.15	0.47
22:a:6003:CLA:CED	22:a:6003:CLA:CGA	2.92	0.47
2:b:5185:TRP:H	2:b:5185:TRP:CD1	2.33	0.47
2:b:5354:LEU:HD21	2:b:5378:LYS:HB2	1.97	0.47
2:b:5397:VAL:HG12	2:b:5398:THR:N	2.29	0.47
3:c:5045:LEU:HA	3:c:5045:LEU:HD23	1.75	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5087:ILE:O	3:c:5090:PRO:HG2	2.15	0.47
3:c:5165:LEU:HD21	22:c:6030:CLA:HBB1	1.96	0.47
3:c:5176:VAL:HA	3:c:5234:VAL:HG23	1.95	0.47
3:c:5237:HIS:O	3:c:5238:ILE:C	2.58	0.47
22:c:6027:CLA:C15	25:z:6053:BCR:C33	2.87	0.47
22:c:6033:CLA:H141	22:c:6036:CLA:CMD	2.44	0.47
29:c:6056:DGD:O1A	29:c:6056:DGD:C5A	2.62	0.47
29:c:6056:DGD:HA72	29:c:6056:DGD:HAT1	1.57	0.47
4:d:5027:PHE:CD1	4:d:5028:VAL:HG23	2.50	0.47
4:d:5125:PHE:CD1	4:d:5125:PHE:C	2.92	0.47
4:d:5155:SER:HA	4:d:5159:ILE:CB	2.44	0.47
25:h:6049:BCR:H371	25:h:6049:BCR:H24C	1.63	0.47
8:i:5010:ILE:HD13	8:i:5010:ILE:N	2.28	0.47
10:k:5035:LEU:C	10:k:5038:VAL:HG23	2.38	0.47
13:o:5128:ASP:O	13:o:5147:THR:HA	2.15	0.47
13:o:5170:GLY:O	13:o:5222:GLN:HA	2.14	0.47
13:o:5227:VAL:HG11	13:o:5230:VAL:CG2	2.44	0.47
16:v:5126:ILE:HD13	16:v:5126:ILE:N	2.30	0.47
1:A:199:GLN:C	1:A:201:GLY:H	2.22	0.47
1:A:244:GLU:OE2	4:D:243:THR:HG22	2.15	0.47
22:A:1007:CLA:C9	8:I:16:VAL:HG11	2.45	0.47
2:B:248:ALA:HA	22:B:1011:CLA:C5	2.45	0.47
22:B:1020:CLA:H41	22:B:1020:CLA:C8	2.45	0.47
3:C:75:PHE:HD1	3:C:86:LEU:HD11	1.78	0.47
3:C:403:SER:OG	3:C:405:ASN:HB3	2.15	0.47
3:C:440:GLY:C	3:C:442:LEU:N	2.72	0.47
3:C:461:ARG:HG2	4:D:223:PHE:CD2	2.50	0.47
29:C:1055:DGD:C6A	29:C:1055:DGD:CAA	2.85	0.47
4:D:120:PHE:O	4:D:121:GLY:C	2.55	0.47
4:D:269:PHE:O	4:D:272:LEU:HB3	2.15	0.47
5:E:13:ILE:HD12	5:E:16:SER:HB3	1.96	0.47
13:O:134:VAL:HG23	13:O:142:ILE:CG2	2.44	0.47
15:U:21:TYR:HE2	15:U:30:THR:HG1	1.60	0.47
15:U:64:ILE:O	15:U:67:LEU:HG	2.14	0.47
15:U:78:ASN:C	15:U:82:PHE:HE2	2.23	0.47
1:a:5061:ASP:HB2	1:a:5063:ILE:HD13	1.96	0.47
1:a:5284:TRP:O	1:a:5285:PHE:C	2.56	0.47
1:a:5340:PRO:HB3	15:u:5103:TYR:CD2	2.49	0.47
25:a:6044:BCR:HC7	8:i:5015:PHE:CZ	2.50	0.47
2:b:5023:HIS:C	2:b:5025:MET:H	2.21	0.47
2:b:5042:LEU:HD21	2:b:5093:PHE:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5168:VAL:CG1	2:b:5169:SER:N	2.76	0.47
2:b:5237:VAL:C	22:b:6020:CLA:HMD1	2.39	0.47
22:b:6016:CLA:C17	22:d:6008:CLA:HMA1	2.34	0.47
3:c:5043:ILE:HG13	22:c:6033:CLA:HAC2	1.96	0.47
3:c:5157:MET:HB3	22:c:6031:CLA:HBC1	1.95	0.47
3:c:5191:PRO:O	3:c:5192:GLY:C	2.58	0.47
3:c:5213:LEU:HD21	25:c:6054:BCR:H372	1.97	0.47
3:c:5305:THR:HG23	3:c:5308:GLU:H	1.79	0.47
3:c:5362:ARG:HD2	3:c:5367:GLU:CD	2.40	0.47
29:c:6056:DGD:HBF1	29:c:6056:DGD:HB81	1.95	0.47
4:d:5064:ALA:O	4:d:5071:CYS:SG	2.72	0.47
4:d:5309:PRO:O	13:o:5185:PRO:HD2	2.15	0.47
6:f:5029:PRO:O	6:f:5030:THR:C	2.58	0.47
7:h:5031:MET:HE3	7:h:5035:MET:SD	2.54	0.47
9:j:5015:THR:CG2	10:k:5038:VAL:HG13	2.45	0.47
10:k:5032:PHE:CD1	25:k:6052:BCR:H372	2.50	0.47
13:o:5241:PHE:HE1	13:o:5261:ILE:HG22	1.79	0.47
25:t:1046:BCR:H371	25:t:1046:BCR:H24C	1.61	0.47
15:u:5046:ALA:O	15:u:5050:VAL:HG23	2.15	0.47
17:x:5019:PHE:O	17:x:5022:GLY:N	2.48	0.47
17:x:5039:ALA:O	17:x:5043:ILE:HD13	2.15	0.47
19:n:5004:UNK:C	19:n:5006:UNK:N	2.74	0.47
1:A:96:ILE:HD12	22:A:1007:CLA:HMD1	1.96	0.47
1:A:210:LEU:C	1:A:210:LEU:CD2	2.84	0.47
3:C:161:LEU:HD23	3:C:161:LEU:C	2.40	0.47
3:C:273:SER:O	3:C:274:TYR:O	2.33	0.47
3:C:348:GLU:OE2	3:C:349:ILE:CG1	2.63	0.47
4:D:262:SER:O	4:D:263:ASN:CB	2.61	0.47
4:D:307:GLU:O	4:D:308:ASP:C	2.58	0.47
4:D:309:PRO:O	13:O:185:PRO:HD2	2.15	0.47
5:E:26:THR:HG22	19:N:14:UNK:O	2.15	0.47
5:E:79:PHE:C	5:E:83:LEU:HD13	2.38	0.47
22:K:1034:CLA:CGA	22:K:1034:CLA:O2D	2.63	0.47
15:U:71:GLN:O	15:U:72:LYS:C	2.57	0.47
1:a:5040:THR:HG21	1:a:5122:GLY:N	2.25	0.47
1:a:5156:ALA:HB1	1:a:5290:ILE:HG22	1.97	0.47
1:a:5223:LEU:HD21	4:d:5265:ARG:CD	2.44	0.47
1:a:5327:GLY:HA2	4:d:5328:TRP:CD1	2.50	0.47
2:b:5338:GLN:HA	2:b:5338:GLN:NE2	2.16	0.47
2:b:5355:PHE:CD2	2:b:5355:PHE:N	2.81	0.47
2:b:5392:PHE:CE2	2:b:5417:VAL:HG12	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5284:PHE:CE1	3:c:5431:PHE:CD2	3.03	0.47
22:c:6033:CLA:HBD	22:c:6033:CLA:HAA2	1.97	0.47
4:d:5312:GLU:HG3	13:o:5185:PRO:HB3	1.97	0.47
8:i:5004:LEU:O	8:i:5007:THR:OG1	2.26	0.47
20:z:5020:VAL:O	20:z:5021:ILE:C	2.58	0.47
1:A:205:VAL:CB	1:A:279:ARG:NH2	2.78	0.47
1:A:209:ALA:HB2	4:D:204:VAL:O	2.15	0.47
1:A:223:LEU:HD21	4:D:265:ARG:CD	2.44	0.47
1:A:265:PHE:HD1	1:A:271:LEU:HA	1.79	0.47
2:B:22:ALA:O	2:B:25:MET:N	2.41	0.47
2:B:347:ARG:HB2	2:B:398:THR:HG23	1.96	0.47
2:B:360:PRO:O	2:B:362:PHE:N	2.48	0.47
2:B:474:LEU:C	2:B:475:PHE:HD2	2.23	0.47
22:B:1018:CLA:CBB	22:H:1017:CLA:O1A	2.63	0.47
25:B:1047:BCR:C12	25:B:1047:BCR:C34	2.88	0.47
3:C:312:ALA:HA	3:C:365:TRP:CH2	2.50	0.47
29:C:1055:DGD:HBG2	29:C:1055:DGD:CEB	2.27	0.47
4:D:297:ASP:OD1	4:D:298:PHE:N	2.27	0.47
4:D:312:GLU:HG3	13:O:185:PRO:HB3	1.97	0.47
15:U:51:LYS:O	15:U:52:ASN:HB2	2.15	0.47
15:U:68:THR:HG23	15:U:70:ARG:N	2.22	0.47
16:V:92:ARG:CG	16:V:92:ARG:NH1	2.67	0.47
1:a:5076:ASN:ND2	11:l:5033:SER:CB	2.67	0.47
1:a:5183:MET:C	22:a:6003:CLA:CBC	2.88	0.47
1:a:5204:GLY:O	1:a:5207:GLY:N	2.48	0.47
1:a:5210:LEU:HD22	1:a:5211:PHE:CD2	2.50	0.47
1:a:5244:GLU:OE2	4:d:5243:THR:HG22	2.15	0.47
2:b:5049:ASP:OD1	2:b:5049:ASP:O	2.32	0.47
2:b:5108:PHE:C	2:b:5111:ALA:HB3	2.38	0.47
2:b:5199:VAL:O	2:b:5203:ILE:HG22	2.15	0.47
2:b:5329:PRO:C	2:b:5331:ASN:H	2.23	0.47
2:b:5346:PHE:CZ	2:b:5421:ALA:HA	2.49	0.47
3:c:5337:LEU:HD13	3:c:5342:MET:HE2	1.97	0.47
22:c:6028:CLA:H93	29:c:6056:DGD:HB91	1.97	0.47
22:c:6031:CLA:H142	25:c:6054:BCR:H362	1.91	0.47
22:d:6005:CLA:H202	22:d:6005:CLA:C15	2.42	0.47
9:j:5038:SER:O	9:j:5039:SER:OG	2.31	0.47
15:u:5045:LEU:HD21	15:u:5075:LEU:HD11	1.92	0.47
15:u:5068:THR:HG23	15:u:5070:ARG:N	2.22	0.47
16:v:5098:LEU:HB3	16:v:5102:MET:HE2	1.97	0.47
1:A:76:ASN:HD22	11:L:33:SER:HB3	1.75	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:197:PHE:HE1	1:A:285:PHE:CD2	2.23	0.46
2:B:33:TRP:O	2:B:36:SER:HB2	2.15	0.46
2:B:115:TRP:CB	27:B:1067:IOD:I	3.33	0.46
2:B:149:LEU:HD13	22:B:1012:CLA:H201	1.97	0.46
3:C:42:LEU:CD1	3:C:49:LEU:HD12	2.37	0.46
3:C:43:ILE:HG13	22:C:1033:CLA:HAC2	1.96	0.46
3:C:307:PRO:HB3	3:C:358:PHE:CG	2.50	0.46
22:C:1030:CLA:CMB	22:C:1031:CLA:C4B	2.85	0.46
4:D:319:LEU:O	4:D:319:LEU:HD23	2.15	0.46
5:E:27:ILE:HG13	31:F:1040:HEM:CMB	2.46	0.46
11:L:26:VAL:HG12	11:L:27:LEU:HD23	1.96	0.46
12:M:9:ILE:O	12:M:13:LEU:HD23	2.15	0.46
13:O:145:LEU:O	13:O:146:PHE:C	2.59	0.46
16:V:126:ILE:HD13	16:V:126:ILE:N	2.30	0.46
17:X:19:PHE:O	17:X:22:GLY:N	2.48	0.46
20:Z:37:LYS:CG	20:Z:38:GLN:N	2.77	0.46
1:a:5305:SER:HA	9:j:5039:SER:HB3	1.97	0.46
1:a:5323:ARG:C	1:a:5325:ASN:N	2.73	0.46
2:b:5023:HIS:C	2:b:5025:MET:N	2.73	0.46
2:b:5098:LEU:C	2:b:5098:LEU:CD1	2.87	0.46
2:b:5360:PRO:O	2:b:5362:PHE:N	2.48	0.46
3:c:5079:LYS:HB3	3:c:5084:GLN:HE21	1.75	0.46
3:c:5083:GLU:CD	16:v:5129:LYS:HZ1	2.23	0.46
3:c:5161:LEU:HD23	3:c:5161:LEU:C	2.40	0.46
3:c:5223:TRP:HD1	3:c:5224:ILE:N	2.13	0.46
3:c:5307:PRO:HB3	3:c:5358:PHE:CG	2.50	0.46
3:c:5318:LEU:HA	3:c:5340:TYR:HD1	1.80	0.46
3:c:5406:SER:O	3:c:5418:ASN:HB2	2.15	0.46
3:c:5440:GLY:C	3:c:5442:LEU:N	2.72	0.46
22:c:6032:CLA:H121	10:k:5033:PHE:CZ	2.50	0.46
4:d:5048:TRP:CE2	4:d:5052:THR:HG21	2.49	0.46
4:d:5183:LEU:H	4:d:5183:LEU:CD2	2.18	0.46
4:d:5312:GLU:CG	13:o:5185:PRO:HB3	2.45	0.46
7:h:5010:ILE:HG22	7:h:5010:ILE:O	2.14	0.46
7:h:5017:GLU:CB	7:h:5020:LYS:HD3	2.45	0.46
8:i:5004:LEU:O	8:i:5005:LYS:C	2.58	0.46
22:k:6034:CLA:CGA	22:k:6034:CLA:O2D	2.63	0.46
14:t:5011:ALA:HB3	25:t:1046:BCR:H362	1.96	0.46
14:t:5018:PHE:HD2	14:t:5019:PHE:CE2	2.34	0.46
15:u:5035:PHE:HE1	15:u:5049:ILE:HB	1.80	0.46
15:u:5055:TYR:N	15:u:5055:TYR:CD1	2.82	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:y:5043:ARG:CD	20:z:5031:GLN:HE21	2.28	0.46
1:A:63:ILE:HG21	3:C:335:THR:HB	1.98	0.46
1:A:193:LEU:O	1:A:193:LEU:HD23	2.15	0.46
1:A:219:VAL:HG11	4:D:268:HIS:CB	2.45	0.46
1:A:224:ILE:CG2	1:A:225:ARG:N	2.77	0.46
1:A:279:ARG:NH2	1:A:283:VAL:HG22	2.30	0.46
2:B:25:MET:O	2:B:26:HIS:C	2.56	0.46
2:B:70:GLY:HA2	2:B:178:VAL:HG21	1.96	0.46
2:B:329:PRO:C	2:B:331:ASN:N	2.73	0.46
2:B:354:LEU:HD21	2:B:378:LYS:HB2	1.97	0.46
2:B:360:PRO:HG2	2:B:363:PHE:CD2	2.50	0.46
22:B:1018:CLA:H2	22:B:1018:CLA:H111	1.97	0.46
3:C:160:ILE:O	3:C:161:LEU:C	2.57	0.46
3:C:171:GLY:CA	22:C:1025:CLA:CBC	2.93	0.46
4:D:57:SER:HB3	4:D:65:SER:OG	2.15	0.46
4:D:103:ARG:O	4:D:106:GLN:N	2.48	0.46
4:D:226:GLY:CA	4:D:234:ALA:CB	2.92	0.46
22:D:1005:CLA:H41	22:D:1005:CLA:H61	1.58	0.46
25:D:1050:BCR:H371	25:D:1050:BCR:H24C	1.64	0.46
11:L:26:VAL:O	11:L:27:LEU:C	2.58	0.46
13:O:76:PHE:CE2	13:O:132:VAL:HG21	2.45	0.46
13:O:184:ASP:CG	13:O:188:ARG:NH1	2.74	0.46
16:V:88:ALA:HA	16:V:108:TYR:CD2	2.48	0.46
1:a:5104:GLU:HG3	13:o:5097:VAL:O	2.15	0.46
1:a:5193:LEU:O	1:a:5193:LEU:HD23	2.15	0.46
1:a:5210:LEU:HA	23:d:6039:PHO:CAC	2.43	0.46
2:b:5347:ARG:HB2	2:b:5398:THR:HG23	1.96	0.46
22:b:6023:CLA:H2	22:b:6023:CLA:H61	1.47	0.46
3:c:5276:LEU:C	3:c:5276:LEU:CD2	2.88	0.46
3:c:5461:ARG:HG2	4:d:5223:PHE:CD2	2.50	0.46
22:c:6030:CLA:HAA1	22:c:6030:CLA:HBD	1.95	0.46
4:d:5082:ALA:C	4:d:5084:SER:N	2.73	0.46
4:d:5315:TYR:O	4:d:5319:LEU:HB2	2.16	0.46
4:d:5348:ARG:HH21	4:d:5352:LEU:C	2.23	0.46
5:e:5037:PHE:CE1	5:e:5043:ALA:HA	2.50	0.46
5:e:5073:LYS:O	5:e:5076:VAL:CG2	2.54	0.46
10:k:5032:PHE:O	10:k:5035:LEU:N	2.47	0.46
14:t:5011:ALA:O	14:t:5012:CYS:C	2.56	0.46
16:v:5090:PRO:HB2	16:v:5091:PRO:HD2	1.96	0.46
16:v:5096:GLU:O	16:v:5099:VAL:N	2.39	0.46
1:A:104:GLU:HG3	13:O:97:VAL:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:TYR:HE2	23:A:1038:PHO:HAA1	1.80	0.46
1:A:156:ALA:HB1	1:A:290:ILE:HG22	1.97	0.46
1:A:339:PHE:CB	1:A:340:PRO:HD2	2.41	0.46
2:B:5:TRP:HA	2:B:8:VAL:HG11	1.88	0.46
2:B:37:MET:O	2:B:40:TYR:HB3	2.14	0.46
2:B:75:TRP:H	2:B:75:TRP:HD1	1.63	0.46
2:B:188:ASP:HB2	7:H:58:VAL:HG22	1.96	0.46
2:B:220:ARG:CD	7:H:20:LYS:O	2.58	0.46
2:B:265:ILE:H	2:B:265:ILE:CD1	2.05	0.46
2:B:377:VAL:HG11	4:D:342:PRO:HG2	1.97	0.46
2:B:392:PHE:CE2	2:B:417:VAL:HG12	2.50	0.46
3:C:42:LEU:HG	3:C:42:LEU:O	2.16	0.46
3:C:337:LEU:HD13	3:C:342:MET:HE2	1.97	0.46
22:D:1008:CLA:HMA3	22:D:1008:CLA:HAA2	1.82	0.46
5:E:8:ARG:HB2	6:F:13:TYR:HB3	1.98	0.46
6:F:24:HIS:C	6:F:26:LEU:N	2.73	0.46
6:F:41:GLN:HG3	9:J:27:LEU:HD21	1.96	0.46
8:I:4:LEU:O	8:I:5:LYS:C	2.58	0.46
10:K:19:ASP:O	10:K:23:ASP:OD1	2.33	0.46
11:L:13:ASN:O	11:L:15:THR:N	2.48	0.46
12:M:8:PHE:CE2	14:T:1:MET:HG3	2.50	0.46
25:T:6046:BCR:C34	25:b:6047:BCR:H272	2.46	0.46
16:V:54:GLU:O	16:V:58:LEU:HB2	2.15	0.46
16:V:90:PRO:O	16:V:91:PRO:C	2.55	0.46
1:a:5254:TYR:CD1	1:a:5254:TYR:C	2.93	0.46
1:a:5330:VAL:CG1	4:d:5348:ARG:HG2	2.45	0.46
2:b:5065:PHE:O	2:b:5067:ALA:N	2.48	0.46
2:b:5075:TRP:H	2:b:5075:TRP:HD1	1.63	0.46
22:b:6011:CLA:H92	22:b:6011:CLA:CBB	2.44	0.46
22:b:6016:CLA:H92	22:h:6017:CLA:H111	1.98	0.46
22:b:6021:CLA:CED	22:b:6021:CLA:HMA3	2.46	0.46
3:c:5334:PRO:HG2	4:d:5350:ASN:ND2	2.31	0.46
22:c:6037:CLA:H111	22:c:6037:CLA:H72	1.60	0.46
4:d:5126:MET:O	4:d:5129:GLN:HB2	2.16	0.46
4:d:5287:VAL:O	4:d:5290:ALA:HB3	2.16	0.46
4:d:5326:ARG:O	4:d:5328:TRP:N	2.49	0.46
5:e:5079:PHE:C	5:e:5081:GLU:N	2.72	0.46
9:j:5025:VAL:HG12	9:j:5026:GLY:N	2.29	0.46
13:o:5080:GLU:N	13:o:5090:GLU:O	2.48	0.46
13:o:5148:VAL:CG2	13:o:5151:LEU:HD22	2.45	0.46
15:u:5074:ILE:O	15:u:5075:LEU:C	2.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:u:5078:ASN:C	15:u:5082:PHE:HE2	2.23	0.46
1:A:107:TYR:CD2	13:O:97:VAL:CG1	2.99	0.46
1:A:183:MET:C	22:A:1003:CLA:CBC	2.88	0.46
1:A:193:LEU:HD22	4:D:179:PHE:CE2	2.50	0.46
1:A:210:LEU:HA	23:D:1039:PHO:CAC	2.43	0.46
1:A:278:TRP:CH2	29:C:1057:DGD:HAV2	2.51	0.46
22:B:1023:CLA:H151	22:B:1024:CLA:NA	2.31	0.46
3:C:56:HIS:HE1	22:C:1033:CLA:HMA1	1.81	0.46
3:C:165:LEU:HD21	22:C:1030:CLA:HBB1	1.96	0.46
4:D:53:THR:CG2	4:D:67:TYR:CD2	2.99	0.46
4:D:199:MET:HE3	24:D:1042:PQ9:H352	1.96	0.46
4:D:269:PHE:C	4:D:271:MET:N	2.72	0.46
13:O:163:THR:C	13:O:165:SER:N	2.72	0.46
15:U:46:ALA:O	15:U:50:VAL:HG23	2.15	0.46
1:a:5096:ILE:HD12	22:a:6007:CLA:HMD1	1.96	0.46
1:a:5147:TYR:HE2	23:a:6038:PHO:HAA1	1.80	0.46
1:a:5199:GLN:C	1:a:5201:GLY:H	2.22	0.46
2:b:5002:GLY:CA	11:l:5011:GLU:HB2	2.44	0.46
2:b:5037:MET:O	2:b:5040:TYR:HB3	2.14	0.46
2:b:5174:LEU:CD2	2:b:5265:ILE:HB	2.46	0.46
2:b:5432:PHE:CE2	13:o:5202:GLN:NE2	2.83	0.46
22:b:6018:CLA:H142	22:b:6018:CLA:H112	1.64	0.46
22:b:6018:CLA:CBB	22:h:6017:CLA:O1A	2.63	0.46
22:b:6022:CLA:H3A	22:b:6022:CLA:HBA2	1.68	0.46
3:c:5056:HIS:HE1	22:c:6033:CLA:HMA1	1.80	0.46
3:c:5131:TYR:CG	3:c:5132:HIS:N	2.83	0.46
3:c:5312:ALA:HA	3:c:5365:TRP:CH2	2.50	0.46
3:c:5316:THR:CG2	16:v:5074:THR:HG23	2.45	0.46
4:d:5016:ASP:O	4:d:5020:ASP:N	2.45	0.46
4:d:5185:PHE:O	4:d:5189:HIS:N	2.48	0.46
4:d:5267:LEU:O	4:d:5268:HIS:C	2.58	0.46
4:d:5269:PHE:O	4:d:5272:LEU:HB3	2.15	0.46
6:f:5017:THR:O	6:f:5018:VAL:C	2.58	0.46
6:f:5019:ARG:HH21	6:f:5020:TRP:CD1	2.34	0.46
10:k:5035:LEU:C	10:k:5037:PHE:N	2.72	0.46
13:o:5184:ASP:CG	13:o:5188:ARG:NH1	2.73	0.46
18:y:5039:LEU:HD21	20:z:5025:VAL:HA	1.98	0.46
2:B:237:VAL:C	22:B:1020:CLA:CMD	2.89	0.46
2:B:250:PHE:HB3	29:B:1058:DGD:HB82	1.98	0.46
2:B:329:PRO:C	2:B:331:ASN:H	2.23	0.46
2:B:432:PHE:CE2	13:O:202:GLN:NE2	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1012:CLA:H12	22:B:1013:CLA:C4	2.37	0.46
3:C:63:TRP:NE1	22:C:1028:CLA:HMC1	2.31	0.46
3:C:259:TRP:CE3	3:C:260:ALA:N	2.84	0.46
3:C:277:GLY:HA3	3:C:441:HIS:HD2	1.81	0.46
3:C:369:LEU:HD11	3:C:384:ILE:CG1	2.46	0.46
3:C:472:LEU:O	3:C:473:ASP:CB	2.58	0.46
22:C:1032:CLA:H12	22:C:1035:CLA:C3C	2.44	0.46
22:C:1036:CLA:H102	22:C:1036:CLA:H13	1.50	0.46
4:D:287:VAL:O	4:D:290:ALA:HB3	2.16	0.46
22:H:1017:CLA:HBB1	25:H:1049:BCR:C32	2.42	0.46
9:J:25:VAL:HG12	9:J:26:GLY:N	2.29	0.46
13:O:184:ASP:OD2	13:O:188:ARG:HB2	2.15	0.46
14:T:11:ALA:C	14:T:13:ILE:N	2.74	0.46
16:V:105:PRO:HD3	16:V:120:SER:CB	2.46	0.46
17:X:13:THR:O	17:X:16:LEU:N	2.49	0.46
1:a:5063:ILE:HG21	3:c:5335:THR:HB	1.98	0.46
1:a:5224:ILE:O	2:b:5481:GLY:HA2	2.15	0.46
2:b:5149:LEU:HD13	22:b:6012:CLA:H201	1.97	0.46
2:b:5355:PHE:O	2:b:5370:LEU:HA	2.15	0.46
3:c:5036:TRP:O	22:c:6032:CLA:H42	2.16	0.46
3:c:5079:LYS:HB3	3:c:5084:GLN:CD	2.39	0.46
4:d:5029:PHE:CD2	4:d:5029:PHE:C	2.93	0.46
23:d:6039:PHO:HHB	22:d:6004:CLA:H121	1.98	0.46
6:f:5041:GLN:HG3	9:j:5027:LEU:HD21	1.96	0.46
15:u:5044:THR:O	15:u:5047:LYS:N	2.49	0.46
17:x:5013:THR:O	17:x:5016:LEU:N	2.49	0.46
17:x:5033:THR:HG22	17:x:5034:PHE:N	2.31	0.46
18:y:5028:ILE:CG1	18:y:5029:GLY:N	2.78	0.46
1:A:32:TRP:HA	1:A:32:TRP:CE3	2.50	0.46
1:A:330:VAL:CG1	4:D:348:ARG:HG2	2.45	0.46
2:B:149:LEU:CB	22:B:1011:CLA:HBC1	2.46	0.46
2:B:172:TYR:CG	2:B:173:GLY:N	2.84	0.46
2:B:224:ARG:HG2	7:H:25:TRP:CD1	2.51	0.46
22:B:1021:CLA:CED	22:B:1021:CLA:HMA3	2.46	0.46
22:B:1022:CLA:C4	22:B:1022:CLA:O2A	2.64	0.46
3:C:87:ILE:O	3:C:90:PRO:HG2	2.15	0.46
3:C:100:GLY:O	3:C:101:PRO:C	2.58	0.46
3:C:143:TYR:O	3:C:144:SER:C	2.59	0.46
3:C:315:MET:HE3	3:C:315:MET:CA	2.37	0.46
3:C:316:THR:CG2	16:V:74:THR:HG23	2.45	0.46
3:C:376:ASP:OD1	3:C:378:ASN:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:C:1035:CLA:CMB	25:C:1052:BCR:H272	2.45	0.46
29:C:1056:DGD:O1A	29:C:1056:DGD:HA52	2.16	0.46
4:D:210:LEU:HD12	4:D:210:LEU:HA	1.64	0.46
5:E:18:ARG:O	5:E:22:ILE:HG13	2.16	0.46
5:E:77:GLU:C	5:E:79:PHE:N	2.74	0.46
5:E:79:PHE:C	5:E:81:GLU:N	2.72	0.46
1:a:5218:LEU:O	1:a:5219:VAL:C	2.59	0.46
1:a:5288:LEU:HD13	3:c:5432:VAL:HG23	1.98	0.46
22:a:6007:CLA:C9	8:i:5016:VAL:HG11	2.45	0.46
2:b:5068:ARG:NH1	2:b:5167:TRP:O	2.49	0.46
2:b:5237:VAL:C	22:b:6020:CLA:CMD	2.89	0.46
2:b:5248:ALA:HA	22:b:6011:CLA:C5	2.45	0.46
2:b:5271:THR:H	2:b:5274:GLN:NE2	2.13	0.46
2:b:5290:ALA:O	2:b:5294:SER:HB2	2.16	0.46
22:b:6011:CLA:O1D	22:b:6013:CLA:C2	2.63	0.46
22:b:6015:CLA:CBB	22:b:6015:CLA:HHC	2.46	0.46
28:b:6060:MGE:H102	28:b:6060:MGE:H7A1	1.31	0.46
3:c:5063:TRP:NE1	22:c:6028:CLA:HMC1	2.31	0.46
3:c:5142:GLU:OE2	3:c:5143:TYR:HB2	2.16	0.46
3:c:5178:LYS:HA	3:c:5182:PHE:HB2	1.98	0.46
3:c:5376:ASP:OD1	3:c:5378:ASN:HB2	2.15	0.46
4:d:5274:VAL:HB	4:d:5275:PRO:CD	2.38	0.46
4:d:5297:ASP:O	4:d:5298:PHE:HB2	2.15	0.46
4:d:5314:PHE:O	4:d:5318:ASN:N	2.44	0.46
4:d:5329:MET:O	4:d:5330:ALA:C	2.59	0.46
8:i:5016:VAL:O	8:i:5019:PHE:HB3	2.16	0.46
10:k:5028:ILE:HA	10:k:5031:LEU:CG	2.45	0.46
13:o:5071:LEU:HB3	13:o:5241:PHE:CE2	2.50	0.46
13:o:5184:ASP:OD2	13:o:5188:ARG:HB2	2.15	0.46
16:v:5063:CYS:SG	16:v:5129:LYS:NZ	2.72	0.46
16:v:5105:PRO:HD3	16:v:5120:SER:CB	2.46	0.46
1:A:45:THR:CG2	1:A:46:ILE:H	2.27	0.46
1:A:107:TYR:C	1:A:109:GLY:N	2.74	0.46
1:A:288:LEU:HD13	3:C:432:VAL:HG23	1.98	0.46
1:A:316:THR:C	1:A:318:ALA:N	2.72	0.46
2:B:171:PRO:CB	2:B:279:TYR:OH	2.64	0.46
3:C:176:VAL:O	3:C:180:MET:N	2.45	0.46
3:C:237:HIS:O	3:C:238:ILE:C	2.58	0.46
3:C:386:PRO:C	3:C:388:GLN:N	2.73	0.46
29:C:1056:DGD:HAG1	29:C:1057:DGD:HA92	1.98	0.46
4:D:147:SER:OG	4:D:280:TRP:NE1	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:24:HIS:O	6:F:25:THR:C	2.59	0.46
6:F:37:ILE:HG22	9:J:28:PHE:HE1	1.81	0.46
12:M:32:GLN:HA	12:M:32:GLN:NE2	2.27	0.46
13:O:116:ASP:OD2	13:O:116:ASP:O	2.34	0.46
13:O:216:PHE:HD2	13:O:217:SER:N	2.14	0.46
15:U:28:ASN:ND2	15:U:55:TYR:N	2.62	0.46
20:Z:32:ASP:HB3	20:Z:35:ARG:CG	2.46	0.46
1:a:5209:ALA:HB2	4:d:5204:VAL:O	2.15	0.46
2:b:5062:VAL:HG13	22:b:6013:CLA:HED2	1.95	0.46
2:b:5149:LEU:HD22	22:b:6012:CLA:H203	1.97	0.46
2:b:5171:PRO:CB	2:b:5279:TYR:OH	2.64	0.46
2:b:5326:ARG:HH11	4:d:5297:ASP:CA	2.11	0.46
2:b:5346:PHE:CD1	2:b:5399:VAL:HG22	2.51	0.46
2:b:5360:PRO:HG2	2:b:5363:PHE:CD2	2.50	0.46
2:b:5364:GLU:HG3	4:d:5296:TYR:CD2	2.51	0.46
22:b:6018:CLA:H202	22:b:6018:CLA:H161	1.68	0.46
22:b:6020:CLA:H41	22:b:6020:CLA:C8	2.45	0.46
3:c:5029:GLU:OE1	3:c:5030:SER:N	2.49	0.46
3:c:5059:LEU:HD11	10:k:5032:PHE:CE1	2.51	0.46
3:c:5225:VAL:HG23	3:c:5226:SER:H	1.80	0.46
3:c:5305:THR:HG22	3:c:5308:GLU:CB	2.41	0.46
3:c:5369:LEU:HD11	3:c:5384:ILE:CG1	2.46	0.46
22:c:6035:CLA:H111	25:k:6052:BCR:H24C	1.98	0.46
29:c:6056:DGD:O1A	29:c:6056:DGD:HA52	2.16	0.46
4:d:5113:PHE:O	4:d:5114:ILE:C	2.57	0.46
4:d:5144:ILE:O	4:d:5145:ALA:C	2.59	0.46
4:d:5147:SER:OG	4:d:5280:TRP:NE1	2.44	0.46
4:d:5209:LEU:O	4:d:5210:LEU:C	2.59	0.46
4:d:5250:ASN:HD21	14:t:5027:PRO:HG3	1.81	0.46
4:d:5269:PHE:CD1	4:d:5269:PHE:C	2.92	0.46
9:j:5023:VAL:HG13	9:j:5024:ILE:N	2.30	0.46
15:u:5073:GLN:O	15:u:5074:ILE:C	2.59	0.46
16:v:5083:GLU:O	16:v:5087:LEU:HG	2.15	0.46
20:z:5032:ASP:HB3	20:z:5035:ARG:CG	2.46	0.46
1:A:61:ASP:HB2	1:A:63:ILE:HD13	1.96	0.46
1:A:269:ARG:HD2	4:D:231:THR:O	2.16	0.46
22:B:1009:CLA:OBD	22:B:1010:CLA:CBB	2.55	0.46
3:C:36:TRP:O	22:C:1032:CLA:H42	2.16	0.46
3:C:42:LEU:HD22	22:C:1035:CLA:HMA3	1.97	0.46
3:C:49:LEU:CD2	22:C:1035:CLA:CMA	2.90	0.46
3:C:93:ALA:HB1	3:C:99:VAL:HG21	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:142:GLU:OE2	3:C:143:TYR:HB2	2.16	0.46
3:C:271:TYR:O	3:C:275:SER:HB2	2.16	0.46
3:C:374:GLY:HA2	13:O:33:TYR:CE1	2.51	0.46
22:C:1033:CLA:HAA2	22:C:1033:CLA:HBD	1.97	0.46
22:C:1036:CLA:CED	22:C:1037:CLA:HBB2	2.46	0.46
4:D:14:TRP:O	4:D:17:ILE:HG13	2.16	0.46
4:D:29:PHE:CD2	4:D:29:PHE:C	2.93	0.46
4:D:183:LEU:H	4:D:183:LEU:CD2	2.18	0.46
6:F:19:ARG:HH21	6:F:20:TRP:CD1	2.34	0.46
7:H:30:LEU:O	7:H:34:PHE:HD2	1.98	0.46
10:K:21:LEU:C	10:K:23:ASP:N	2.70	0.46
1:a:5081:ALA:HB2	1:a:5175:GLY:HA3	1.98	0.46
1:a:5119:PHE:C	1:a:5121:LEU:N	2.71	0.46
2:b:5122:LEU:HD23	7:h:5008:GLY:C	2.41	0.46
2:b:5171:PRO:HB3	2:b:5279:TYR:OH	2.15	0.46
2:b:5401:PHE:CE1	2:b:5406:LEU:HD23	2.51	0.46
2:b:5474:LEU:C	2:b:5475:PHE:HD2	2.23	0.46
22:b:6012:CLA:C2D	22:b:6020:CLA:H203	2.39	0.46
22:b:6023:CLA:C1D	22:b:6024:CLA:HMC3	2.45	0.46
3:c:5185:LEU:CG	3:c:5199:ILE:HD11	2.38	0.46
3:c:5223:TRP:CD1	3:c:5224:ILE:HD13	2.51	0.46
3:c:5259:TRP:CE3	3:c:5260:ALA:N	2.84	0.46
3:c:5266:TRP:HB3	3:c:5271:TYR:HH	1.79	0.46
3:c:5284:PHE:CB	29:c:6055:DGD:HB71	2.44	0.46
3:c:5321:ASP:C	3:c:5324:LEU:H	2.23	0.46
22:c:6028:CLA:O1D	29:c:6056:DGD:HE62	2.15	0.46
29:c:6056:DGD:HD62	29:c:6056:DGD:C4E	2.43	0.46
29:c:6056:DGD:HAG1	29:c:6057:DGD:HA92	1.98	0.46
4:d:5053:THR:CG2	4:d:5067:TYR:CD2	2.99	0.46
4:d:5057:SER:HB3	4:d:5065:SER:OG	2.15	0.46
4:d:5170:ALA:O	4:d:5171:PRO:C	2.57	0.46
4:d:5307:GLU:O	4:d:5308:ASP:C	2.58	0.46
4:d:5319:LEU:O	4:d:5319:LEU:HD23	2.15	0.46
9:j:5031:GLY:O	9:j:5035:GLY:CA	2.58	0.46
10:k:5035:LEU:O	10:k:5036:ALA:C	2.58	0.46
11:l:5026:VAL:O	11:l:5027:LEU:C	2.58	0.46
13:o:5048:LEU:O	13:o:5229:LYS:HD3	2.15	0.46
13:o:5116:ASP:OD2	13:o:5116:ASP:O	2.34	0.46
13:o:5151:LEU:HG	13:o:5152:VAL:N	2.31	0.46
15:u:5027:LEU:HD21	15:u:5082:PHE:CD1	2.46	0.46
15:u:5032:ILE:HG13	15:u:5050:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:GLY:HA3	1:A:132:GLU:OE2	2.16	0.46
1:A:279:ARG:CZ	23:A:1038:PHO:CMC	2.90	0.46
1:A:305:SER:HA	9:J:39:SER:HB3	1.97	0.46
2:B:52:LEU:C	2:B:54:PRO:HD3	2.40	0.46
2:B:68:ARG:NH1	2:B:167:TRP:O	2.49	0.46
2:B:122:LEU:HD23	7:H:8:GLY:C	2.41	0.46
2:B:364:GLU:HG3	4:D:296:TYR:CD2	2.51	0.46
22:B:1011:CLA:O1D	22:B:1013:CLA:C2	2.64	0.46
22:B:1012:CLA:C2D	22:B:1020:CLA:H203	2.39	0.46
22:B:1015:CLA:H3A	22:B:1015:CLA:HBA2	1.55	0.46
22:B:1016:CLA:H92	22:H:1017:CLA:H111	1.98	0.46
25:B:1047:BCR:H272	25:t:1046:BCR:C34	2.46	0.46
3:C:29:GLU:OE1	3:C:30:SER:N	2.49	0.46
3:C:362:ARG:NE	3:C:367:GLU:OE1	2.48	0.46
22:C:1031:CLA:H121	22:C:1031:CLA:H161	1.62	0.46
4:D:302:GLU:HA	4:D:305:ALA:CB	2.46	0.46
4:D:348:ARG:HH21	4:D:352:LEU:C	2.22	0.46
23:D:1039:PHO:HHB	22:D:1004:CLA:H121	1.98	0.46
5:E:37:PHE:CE1	5:E:43:ALA:HA	2.50	0.46
8:I:4:LEU:O	8:I:7:THR:OG1	2.26	0.46
8:I:16:VAL:O	8:I:19:PHE:HB3	2.16	0.46
9:J:10:LEU:H	9:J:10:LEU:CD1	2.10	0.46
15:U:35:PHE:HE1	15:U:49:ILE:HB	1.80	0.46
17:X:44:ASP:OD1	17:X:44:ASP:O	2.34	0.46
1:a:5047:CYS:SG	1:a:5115:ILE:CD1	3.04	0.46
1:a:5193:LEU:HD22	4:d:5179:PHE:CE2	2.50	0.46
2:b:5027:THR:CG2	2:b:5107:LEU:HD13	2.45	0.46
2:b:5046:ASP:H	2:b:5058:GLN:HE22	1.63	0.46
2:b:5172:TYR:CG	2:b:5173:GLY:N	2.84	0.46
2:b:5377:VAL:HG11	4:d:5342:PRO:HG2	1.97	0.46
22:b:6012:CLA:CHD	22:b:6020:CLA:C20	2.94	0.46
22:b:6015:CLA:H3A	22:b:6015:CLA:HBA2	1.55	0.46
22:b:6023:CLA:H151	22:b:6024:CLA:NA	2.31	0.46
3:c:5165:LEU:O	3:c:5244:CYS:SG	2.73	0.46
3:c:5398:HIS:H	3:c:5398:HIS:HD1	1.62	0.46
4:d:5089:LEU:CD1	7:h:5050:ASN:OD1	2.62	0.46
7:h:5013:PRO:CG	7:h:5014:LEU:HD12	2.29	0.46
7:h:5030:LEU:O	7:h:5034:PHE:HD2	1.99	0.46
9:j:5030:TYR:O	9:j:5032:ALA:N	2.49	0.46
13:o:5041:LEU:C	13:o:5043:ASN:H	2.24	0.46
13:o:5104:LEU:HD12	13:o:5104:LEU:C	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5216:PHE:HD2	13:o:5217:SER:N	2.14	0.46
15:u:5051:LYS:O	15:u:5052:ASN:HB2	2.15	0.46
16:v:5034:LEU:CD2	16:v:5047:LEU:HB3	2.30	0.46
1:A:39:PRO:CD	22:A:1007:CLA:HBB2	2.45	0.46
1:A:204:GLY:O	1:A:207:GLY:N	2.48	0.46
1:A:210:LEU:HA	23:D:1039:PHO:CBC	2.46	0.46
1:A:340:PRO:HD3	15:U:103:TYR:HE2	1.77	0.46
2:B:49:ASP:CA	13:o:5083:LYS:HE3	2.45	0.46
2:B:360:PRO:HG2	2:B:363:PHE:CE2	2.52	0.46
22:B:1015:CLA:H18	28:B:1060:MGE:CCA	2.46	0.46
22:B:1018:CLA:C8	22:B:1023:CLA:CBA	2.94	0.46
3:C:272:LEU:HD12	3:C:276:LEU:HB2	1.98	0.46
3:C:398:HIS:HD1	3:C:398:HIS:H	1.62	0.46
29:C:1056:DGD:HD62	29:C:1056:DGD:C4E	2.43	0.46
4:D:191:TRP:O	4:D:194:ASN:N	2.49	0.46
4:D:218:VAL:HG22	4:D:244:TYR:CD1	2.51	0.46
4:D:230:SER:C	4:D:232:PHE:N	2.74	0.46
4:D:250:ASN:HD21	14:T:27:PRO:HG3	1.81	0.46
4:D:274:VAL:CB	4:D:275:PRO:CD	2.94	0.46
11:L:25:LEU:HD12	14:T:16:LEU:HD22	1.97	0.46
12:M:29:THR:C	12:M:31:SER:H	2.24	0.46
1:a:5039:PRO:O	1:a:5040:THR:C	2.59	0.46
1:a:5045:THR:CG2	1:a:5046:ILE:H	2.27	0.46
1:a:5107:TYR:C	1:a:5109:GLY:N	2.74	0.46
1:a:5192:ILE:CG2	1:a:5193:LEU:N	2.79	0.46
1:a:5271:LEU:O	1:a:5272:HIS:C	2.59	0.46
2:b:5135:LEU:HB2	22:b:6018:CLA:HBC1	1.98	0.46
3:c:5033:PHE:CD2	4:d:5229:ALA:HB1	2.51	0.46
3:c:5160:ILE:O	3:c:5161:LEU:C	2.57	0.46
3:c:5172:ALA:H	22:c:6025:CLA:HBC2	1.76	0.46
3:c:5257:PHE:HD1	3:c:5257:PHE:N	2.09	0.46
3:c:5274:TYR:O	3:c:5275:SER:C	2.59	0.46
22:c:6028:CLA:H91	29:c:6056:DGD:HB91	1.98	0.46
22:c:6035:CLA:CMB	25:k:6052:BCR:H272	2.45	0.46
22:c:6037:CLA:H3A	22:c:6037:CLA:HBA2	1.44	0.46
4:d:5067:TYR:O	4:d:5070:GLY:N	2.47	0.46
4:d:5087:HIS:HA	4:d:5167:TRP:NE1	2.31	0.46
4:d:5302:GLU:HA	4:d:5305:ALA:CB	2.46	0.46
10:k:5032:PHE:CZ	25:k:6052:BCR:C36	2.82	0.46
11:l:5013:ASN:O	11:l:5015:THR:N	2.48	0.46
11:l:5025:LEU:HD12	14:t:5016:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:o:5052:ALA:O	13:o:5053:ARG:HB3	2.15	0.46
13:o:5059:ASP:O	13:o:5060:SER:HB2	2.16	0.46
13:o:5163:THR:C	13:o:5165:SER:N	2.72	0.46
15:u:5028:ASN:ND2	15:u:5055:TYR:N	2.62	0.46
16:v:5035:THR:CA	16:v:5046:THR:HA	2.43	0.46
1:A:47:CYS:SG	1:A:115:ILE:CD1	3.04	0.45
1:A:143:ILE:HB	4:D:220:ASN:HD22	1.79	0.45
1:A:157:VAL:O	1:A:158:PHE:CD2	2.69	0.45
1:A:210:LEU:HD22	1:A:211:PHE:CD2	2.51	0.45
2:B:122:LEU:HD23	7:H:8:GLY:CA	2.46	0.45
2:B:140:GLY:O	2:B:143:LEU:HB3	2.16	0.45
2:B:231:MET:HG2	22:B:1018:CLA:HAC2	1.98	0.45
2:B:456:ALA:HB1	29:B:1058:DGD:CHB	2.28	0.45
22:B:1011:CLA:C2D	22:B:1013:CLA:H12	2.45	0.45
22:B:1016:CLA:H93	22:B:1016:CLA:H61	1.64	0.45
3:C:60:ILE:HG13	22:C:1027:CLA:CMD	2.46	0.45
3:C:128:GLY:HA3	22:C:1037:CLA:C3C	2.46	0.45
3:C:131:TYR:CG	3:C:132:HIS:N	2.83	0.45
3:C:206:PRO:O	3:C:210:PHE:HB2	2.16	0.45
3:C:348:GLU:HG2	3:C:349:ILE:CG1	2.36	0.45
4:D:87:HIS:HA	4:D:167:TRP:NE1	2.31	0.45
4:D:126:MET:O	4:D:129:GLN:HB2	2.16	0.45
4:D:144:ILE:O	4:D:145:ALA:C	2.59	0.45
7:H:12:ARG:N	7:H:13:PRO:CD	2.79	0.45
7:H:17:GLU:CB	7:H:20:LYS:HD3	2.45	0.45
9:J:23:VAL:HG13	9:J:24:ILE:N	2.30	0.45
9:J:38:SER:O	9:J:39:SER:OG	2.31	0.45
1:a:5013:LEU:H	1:a:5013:LEU:CD1	2.27	0.45
1:a:5031:GLY:HA3	1:a:5132:GLU:OE2	2.16	0.45
1:a:5204:GLY:O	1:a:5205:VAL:C	2.58	0.45
1:a:5323:ARG:HD2	1:a:5323:ARG:HA	1.72	0.45
2:b:5151:PHE:HB2	2:b:5206:GLY:HA3	1.98	0.45
2:b:5247:PHE:CE1	22:b:6010:CLA:H93	2.51	0.45
2:b:5321:LYS:O	2:b:5322:GLY:O	2.34	0.45
2:b:5350:GLU:N	2:b:5350:GLU:OE2	2.49	0.45
2:b:5360:PRO:HG2	2:b:5363:PHE:CE2	2.52	0.45
22:b:6011:CLA:H2	22:b:6013:CLA:H91	1.93	0.45
22:b:6018:CLA:H2	22:b:6018:CLA:H111	1.97	0.45
22:b:6022:CLA:CBC	22:b:6022:CLA:CHD	2.79	0.45
22:b:6023:CLA:H91	22:b:6024:CLA:H152	1.88	0.45
3:c:5060:ILE:HG13	22:c:6027:CLA:CMD	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5371:GLY:N	3:c:5374:GLY:O	2.49	0.45
22:c:6027:CLA:HBB1	22:c:6027:CLA:HHC	1.98	0.45
4:d:5057:SER:OG	4:d:5065:SER:CB	2.64	0.45
4:d:5180:ARG:HD2	4:d:5180:ARG:C	2.41	0.45
4:d:5199:MET:HE3	24:d:6042:PQ9:H352	1.96	0.45
5:e:5018:ARG:O	5:e:5022:ILE:HG13	2.16	0.45
5:e:5026:THR:HG22	19:n:5014:UNK:O	2.15	0.45
10:k:5033:PHE:HE1	10:k:5037:PHE:CD2	2.34	0.45
15:u:5028:ASN:ND2	15:u:5054:PRO:HB2	2.24	0.45
1:A:187:GLN:CG	1:A:325:ASN:HD21	2.17	0.45
1:A:205:VAL:HA	1:A:279:ARG:HH21	1.81	0.45
1:A:288:LEU:HD22	3:C:432:VAL:HA	1.98	0.45
1:A:323:ARG:C	1:A:325:ASN:N	2.73	0.45
2:B:7:ARG:NH1	2:B:7:ARG:CG	2.58	0.45
2:B:27:THR:CG2	2:B:107:LEU:HD13	2.45	0.45
2:B:135:LEU:HB2	22:B:1018:CLA:HBC1	1.98	0.45
2:B:149:LEU:HD22	22:B:1012:CLA:H203	1.97	0.45
2:B:401:PHE:CE1	2:B:406:LEU:HD23	2.51	0.45
22:B:1022:CLA:CGD	22:B:1022:CLA:CAA	2.65	0.45
22:B:1023:CLA:C1D	22:B:1024:CLA:HMC3	2.45	0.45
3:C:284:PHE:CE1	3:C:431:PHE:CD2	3.03	0.45
3:C:334:PRO:HG2	4:D:350:ASN:ND2	2.31	0.45
3:C:456:GLU:H	3:C:456:GLU:HG3	1.42	0.45
22:C:1029:CLA:H92	22:C:1029:CLA:H62	1.80	0.45
22:C:1036:CLA:H3A	22:C:1036:CLA:HBA1	1.59	0.45
4:D:189:HIS:ND1	4:D:294:ARG:HD3	2.31	0.45
4:D:214:HIS:C	4:D:217:THR:HG22	2.41	0.45
4:D:267:LEU:CD2	4:D:268:HIS:ND1	2.62	0.45
5:E:24:SER:O	5:E:28:PRO:HD2	2.17	0.45
25:H:1049:BCR:H24C	25:H:1049:BCR:H371	1.63	0.45
9:J:30:TYR:O	9:J:32:ALA:N	2.49	0.45
13:O:48:LEU:O	13:O:229:LYS:HD3	2.15	0.45
13:O:71:LEU:HB3	13:O:241:PHE:CE2	2.51	0.45
13:O:210:ARG:NE	13:O:252:GLY:O	2.49	0.45
16:V:103:LYS:HE3	16:V:138:LEU:HD12	1.97	0.45
17:X:39:ALA:O	17:X:43:ILE:HD13	2.15	0.45
18:Y:39:LEU:HD21	20:Z:25:VAL:HA	1.98	0.45
1:a:5107:TYR:CD2	13:o:5097:VAL:CG1	2.99	0.45
1:a:5290:ILE:HA	1:a:5290:ILE:HD12	1.65	0.45
22:a:6007:CLA:H193	22:a:6007:CLA:H162	1.73	0.45
2:b:5033:TRP:O	2:b:5036:SER:HB2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5047:PRO:HB3	2:b:5078:TRP:CE3	2.51	0.45
2:b:5122:LEU:HD23	7:h:5008:GLY:CA	2.46	0.45
2:b:5153:PHE:O	2:b:5154:GLY:C	2.59	0.45
22:b:6010:CLA:CMD	22:b:6011:CLA:H92	2.46	0.45
22:b:6013:CLA:C17	22:b:6013:CLA:C14	2.93	0.45
22:c:6035:CLA:H143	22:c:6035:CLA:H112	1.79	0.45
4:d:5129:GLN:O	4:d:5133:ALA:HB2	2.16	0.45
4:d:5170:ALA:C	4:d:5171:PRO:O	2.59	0.45
4:d:5308:ASP:O	4:d:5310:GLU:N	2.50	0.45
5:e:5008:ARG:HB2	6:f:5013:TYR:HB3	1.98	0.45
5:e:5063:ILE:HA	5:e:5064:PRO:HD3	1.76	0.45
7:h:5044:ILE:HD13	7:h:5044:ILE:HA	1.77	0.45
10:k:5021:LEU:C	10:k:5023:ASP:N	2.70	0.45
22:k:6034:CLA:H43	22:k:6034:CLA:CBA	2.44	0.45
18:y:5043:ARG:HH21	18:y:5044:GLY:N	2.14	0.45
1:A:129:ARG:CZ	4:D:256:ILE:CD1	2.91	0.45
1:A:252:HIS:CD2	1:A:264:SER:HB3	2.51	0.45
1:A:259:ILE:CD1	24:A:1043:PQ9:H242	2.37	0.45
1:A:304:HIS:CD2	3:C:414:ILE:HD13	2.52	0.45
2:B:47:PRO:HB3	2:B:78:TRP:CE3	2.51	0.45
2:B:65:PHE:HZ	22:B:1012:CLA:HMA3	1.72	0.45
2:B:247:PHE:CE1	22:B:1010:CLA:H93	2.51	0.45
2:B:317:ASN:O	2:B:319:PRO:HD3	2.16	0.45
2:B:346:PHE:CD1	2:B:399:VAL:HG22	2.51	0.45
22:B:1023:CLA:CHD	22:B:1024:CLA:HBC2	2.46	0.45
3:C:62:PHE:HE2	10:K:29:PRO:HD3	1.81	0.45
3:C:404:LEU:C	3:C:406:SER:N	2.73	0.45
3:C:431:PHE:C	3:C:431:PHE:HD2	2.23	0.45
4:D:103:ARG:HG3	5:E:73:LYS:HD3	1.97	0.45
4:D:221:THR:O	4:D:244:TYR:CA	2.64	0.45
4:D:315:TYR:O	4:D:319:LEU:HB2	2.16	0.45
6:F:29:PRO:O	6:F:30:THR:C	2.58	0.45
13:O:79:LYS:CE	13:O:89:ALA:HB3	2.47	0.45
13:O:227:VAL:HG11	13:O:230:VAL:CG2	2.45	0.45
15:U:51:LYS:HG3	15:U:52:ASN:N	2.23	0.45
15:U:75:LEU:O	15:U:76:ARG:C	2.59	0.45
16:V:63:CYS:SG	16:V:129:LYS:NZ	2.72	0.45
1:a:5032:TRP:HA	1:a:5032:TRP:CE3	2.50	0.45
1:a:5038:ILE:HG22	1:a:5039:PRO:CD	2.46	0.45
1:a:5157:VAL:O	1:a:5158:PHE:CD2	2.69	0.45
1:a:5304:HIS:CD2	3:c:5414:ILE:HD13	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5106:LEU:O	2:b:5109:LEU:N	2.48	0.45
22:b:6016:CLA:C15	22:d:6008:CLA:HMA1	2.37	0.45
3:c:5100:GLY:O	3:c:5101:PRO:C	2.58	0.45
3:c:5271:TYR:O	3:c:5275:SER:HB2	2.16	0.45
3:c:5272:LEU:HD12	3:c:5276:LEU:HB2	1.98	0.45
3:c:5348:GLU:OE2	3:c:5349:ILE:CG1	2.63	0.45
3:c:5456:GLU:H	3:c:5456:GLU:HG3	1.42	0.45
22:c:6036:CLA:CED	22:c:6037:CLA:HBB2	2.46	0.45
4:d:5261:PHE:N	24:d:6042:PQ9:H91	2.14	0.45
6:f:5024:HIS:C	6:f:5026:LEU:N	2.73	0.45
13:o:5136:MET:HE3	13:o:5136:MET:HB3	1.73	0.45
1:A:93:PHE:CB	3:C:218:PHE:HD2	2.28	0.45
1:A:103:ASP:HA	1:A:106:LEU:CD1	2.39	0.45
23:A:1038:PHO:H143	23:A:1038:PHO:H161	1.62	0.45
2:B:42:LEU:HD21	2:B:93:PHE:HB3	1.97	0.45
2:B:69:LEU:CD2	22:B:1013:CLA:O1A	2.64	0.45
2:B:74:SER:HA	2:B:92:SER:OG	2.16	0.45
2:B:298:LEU:HD11	2:B:302:TRP:NE1	2.26	0.45
2:B:309:LEU:O	2:B:309:LEU:HD12	2.17	0.45
2:B:321:LYS:O	2:B:322:GLY:O	2.34	0.45
2:B:393:GLU:HG3	2:B:414:PRO:HB3	1.98	0.45
22:B:1009:CLA:HED1	7:H:41:PHE:CE1	2.51	0.45
3:C:207:ARG:O	3:C:211:GLY:HA3	2.17	0.45
3:C:267:SER:O	3:C:268:GLY:C	2.59	0.45
3:C:274:TYR:O	3:C:275:SER:C	2.59	0.45
3:C:429:SER:O	3:C:432:VAL:CG1	2.60	0.45
4:D:129:GLN:O	4:D:133:ALA:HB2	2.16	0.45
4:D:170:ALA:O	4:D:171:PRO:C	2.57	0.45
4:D:173:PHE:CE1	23:D:1039:PHO:H13	2.51	0.45
4:D:209:LEU:O	4:D:210:LEU:C	2.59	0.45
4:D:329:MET:O	4:D:330:ALA:C	2.59	0.45
6:F:41:GLN:HE22	9:J:28:PHE:HA	1.74	0.45
13:O:216:PHE:C	13:O:216:PHE:CD2	2.94	0.45
14:T:18:PHE:HD2	14:T:19:PHE:CE2	2.33	0.45
15:U:44:THR:O	15:U:47:LYS:N	2.49	0.45
1:a:5333:GLU:HB2	1:a:5337:HIS:CE1	2.51	0.45
2:b:5024:LEU:HD13	22:b:6024:CLA:HBB1	1.97	0.45
2:b:5418:LYS:O	2:b:5421:ALA:N	2.43	0.45
22:b:6018:CLA:C8	22:b:6023:CLA:CBA	2.94	0.45
3:c:5039:ASN:CG	22:c:6033:CLA:HBB2	2.42	0.45
3:c:5062:PHE:HE2	10:k:5029:PRO:HD3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5273:SER:O	3:c:5274:TYR:O	2.33	0.45
3:c:5417:VAL:HG11	16:v:5068:VAL:HG12	1.86	0.45
22:c:6033:CLA:HMA3	22:k:6034:CLA:C3C	2.41	0.45
22:c:6035:CLA:H152	20:z:5020:VAL:HG13	1.98	0.45
4:d:5063:LEU:HD23	4:d:5064:ALA:N	2.32	0.45
4:d:5079:SER:C	4:d:5080:THR:HG22	2.42	0.45
4:d:5214:HIS:CA	4:d:5217:THR:HG22	2.47	0.45
4:d:5218:VAL:HG22	4:d:5244:TYR:CD1	2.52	0.45
4:d:5319:LEU:O	4:d:5322:ASN:HB2	2.17	0.45
22:d:6005:CLA:H91	28:d:6062:MGE:H263	1.99	0.45
5:e:5027:ILE:HG13	31:f:6040:HEM:CMB	2.46	0.45
5:e:5035:TRP:HA	6:f:5039:ALA:HB2	1.98	0.45
8:i:5012:VAL:HG12	8:i:5013:THR:N	2.31	0.45
10:k:5028:ILE:HB	10:k:5029:PRO:HD3	1.97	0.45
15:u:5029:ASN:O	15:u:5030:THR:C	2.60	0.45
15:u:5083:THR:CG2	15:u:5084:VAL:H	2.25	0.45
1:A:31:GLY:HA3	1:A:132:GLU:CD	2.42	0.45
1:A:215:HIS:HD1	24:A:1043:PQ9:H91	1.80	0.45
2:B:24:LEU:HD13	22:B:1024:CLA:HBB1	1.97	0.45
2:B:174:LEU:CD2	2:B:265:ILE:HB	2.46	0.45
2:B:271:THR:HG22	2:B:274:GLN:CD	2.41	0.45
2:B:350:GLU:OE2	2:B:350:GLU:N	2.49	0.45
3:C:239:TRP:HE3	3:C:243:ILE:HD11	1.81	0.45
3:C:327:ASN:ND2	3:C:330:SER:C	2.75	0.45
3:C:349:ILE:CG2	3:C:375:LEU:HB2	2.44	0.45
4:D:17:ILE:HD12	17:X:41:SER:HG	1.82	0.45
4:D:63:LEU:HD23	4:D:64:ALA:N	2.32	0.45
4:D:100:ASP:C	4:D:102:THR:H	2.25	0.45
4:D:155:SER:HA	4:D:159:ILE:CG1	2.47	0.45
4:D:274:VAL:HB	4:D:275:PRO:CD	2.38	0.45
4:D:312:GLU:CG	13:O:185:PRO:HB3	2.46	0.45
4:D:314:PHE:O	4:D:318:ASN:N	2.45	0.45
4:D:326:ARG:O	4:D:328:TRP:N	2.49	0.45
8:I:12:VAL:HG12	8:I:13:THR:N	2.31	0.45
10:K:28:ILE:HB	10:K:29:PRO:HD3	1.97	0.45
12:M:6:LEU:O	12:M:7:GLY:C	2.56	0.45
13:O:252:GLY:O	13:O:253:ALA:C	2.59	0.45
16:V:98:LEU:HB3	16:V:102:MET:HE2	1.97	0.45
18:Y:42:ARG:HB3	18:Y:43:ARG:NE	2.28	0.45
18:Y:43:ARG:CZ	18:Y:43:ARG:H	2.30	0.45
20:Z:20:VAL:O	20:Z:21:ILE:C	2.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5278:TRP:CH2	29:c:6057:DGD:HAV2	2.51	0.45
2:b:5140:GLY:O	2:b:5143:LEU:HB3	2.16	0.45
2:b:5196:GLY:C	2:b:5198:VAL:N	2.74	0.45
2:b:5259:GLY:HA3	7:h:5062:TRP:CZ2	2.52	0.45
2:b:5393:GLU:HG3	2:b:5414:PRO:HB3	1.98	0.45
3:c:5086:LEU:HB3	3:c:5090:PRO:HD3	1.98	0.45
22:c:6026:CLA:H122	22:c:6026:CLA:C6	2.44	0.45
22:c:6033:CLA:HMA3	22:k:6034:CLA:CAC	2.42	0.45
29:c:6057:DGD:CEB	29:c:6057:DGD:HBG3	2.21	0.45
4:d:5173:PHE:CE1	23:d:6039:PHO:H13	2.51	0.45
4:d:5191:TRP:O	4:d:5194:ASN:N	2.49	0.45
4:d:5258:GLY:C	4:d:5259:ILE:HD13	2.40	0.45
22:d:6005:CLA:HBC1	22:d:6004:CLA:CBB	2.34	0.45
8:i:5027:ASP:C	8:i:5029:ALA:N	2.73	0.45
10:k:5028:ILE:HA	10:k:5031:LEU:HG	1.99	0.45
13:o:5047:THR:O	13:o:5048:LEU:HD23	2.16	0.45
14:t:5009:ILE:O	14:t:5010:PHE:C	2.59	0.45
1:A:192:ILE:CG2	1:A:193:LEU:N	2.79	0.45
1:A:258:LEU:O	1:A:259:ILE:CG1	2.64	0.45
22:A:1003:CLA:H141	23:A:1038:PHO:C8	2.45	0.45
24:A:1043:PQ9:H212	23:D:1039:PHO:CED	2.45	0.45
2:B:259:GLY:HA3	7:H:62:TRP:CZ2	2.52	0.45
28:B:1060:MGE:H7A1	28:B:1060:MGE:H102	1.31	0.45
3:C:46:SER:OG	3:C:141:GLU:CA	2.65	0.45
3:C:178:LYS:HA	3:C:182:PHE:HB2	1.98	0.45
3:C:276:LEU:C	3:C:276:LEU:CD2	2.88	0.45
3:C:318:LEU:HA	3:C:340:TYR:HD1	1.80	0.45
4:D:49:LEU:HD13	25:D:1050:BCR:C14	2.47	0.45
4:D:53:THR:HG23	4:D:67:TYR:CD2	2.51	0.45
4:D:185:PHE:CD1	4:D:289:LEU:HD13	2.52	0.45
4:D:319:LEU:O	4:D:322:ASN:HB2	2.17	0.45
24:D:1042:PQ9:H211	24:D:1042:PQ9:H251	1.71	0.45
5:E:35:TRP:HA	6:F:39:ALA:HB2	1.98	0.45
5:E:47:PHE:C	5:E:49:THR:N	2.75	0.45
13:O:80:GLU:N	13:O:90:GLU:O	2.48	0.45
15:U:74:ILE:O	15:U:75:LEU:C	2.58	0.45
1:a:5020:TRP:CD1	1:a:5026:ASN:HD21	2.35	0.45
1:a:5172:MET:HE2	1:a:5179:THR:CA	2.46	0.45
1:a:5269:ARG:HD2	4:d:5231:THR:O	2.16	0.45
24:a:6043:PQ9:H292	24:a:6043:PQ9:H393	1.99	0.45
2:b:5149:LEU:CB	22:b:6011:CLA:HBC1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5153:PHE:HD1	2:b:5157:HIS:CB	2.29	0.45
22:b:6009:CLA:HED1	7:h:5041:PHE:CE1	2.51	0.45
22:b:6015:CLA:H18	28:b:6060:MGE:CCA	2.46	0.45
22:b:6022:CLA:C9	22:b:6022:CLA:CBC	2.62	0.45
22:b:6023:CLA:CHD	22:b:6024:CLA:HBC2	2.46	0.45
3:c:5051:GLY:O	3:c:5052:ALA:C	2.59	0.45
3:c:5109:PHE:HB3	3:c:5110:PRO:CD	2.40	0.45
3:c:5362:ARG:NE	3:c:5367:GLU:OE1	2.48	0.45
3:c:5374:GLY:HA2	13:o:5033:TYR:CE1	2.51	0.45
3:c:5448:ALA:C	3:c:5450:ALA:N	2.75	0.45
4:d:5308:ASP:C	4:d:5310:GLU:N	2.72	0.45
1:A:39:PRO:O	1:A:40:THR:C	2.59	0.45
1:A:119:PHE:CZ	22:A:1003:CLA:H102	2.52	0.45
1:A:172:MET:HE2	1:A:179:THR:CA	2.46	0.45
26:A:1063:LHG:O9	26:A:1063:LHG:C6	2.52	0.45
26:A:1063:LHG:H302	26:A:1063:LHG:H332	1.58	0.45
2:B:21:ALA:HB2	2:B:114:HIS:CB	2.47	0.45
2:B:25:MET:O	2:B:27:THR:N	2.50	0.45
2:B:134:ASP:H	7:H:15:ASN:ND2	2.15	0.45
22:B:1013:CLA:C17	22:B:1013:CLA:C14	2.93	0.45
22:B:1022:CLA:C14	22:B:1022:CLA:C7	2.70	0.45
3:C:206:PRO:HG2	3:C:207:ARG:HH11	1.82	0.45
4:D:180:ARG:HD2	4:D:180:ARG:C	2.41	0.45
4:D:261:PHE:HE2	4:D:266:TRP:CD1	2.35	0.45
4:D:331:PRO:HD3	4:D:341:PHE:HE2	1.82	0.45
22:D:1008:CLA:HHC	22:D:1008:CLA:CBB	2.19	0.45
28:D:1062:MGE:O1A	28:D:1062:MGE:C3B	2.60	0.45
25:H:1049:BCR:C40	17:X:20:PHE:HZ	2.28	0.45
11:L:15:THR:O	11:L:16:SER:C	2.60	0.45
13:O:41:LEU:C	13:O:43:ASN:H	2.24	0.45
13:O:83:LYS:CE	2:b:5049:ASP:HB2	2.46	0.45
15:U:88:GLU:HB3	15:U:91:LEU:HB2	1.99	0.45
17:X:33:THR:HG22	17:X:34:PHE:N	2.31	0.45
1:a:5210:LEU:HA	23:d:6039:PHO:CBC	2.46	0.45
1:a:5341:LEU:O	1:a:5343:LEU:N	2.48	0.45
2:b:5015:ASP:N	2:b:5016:PRO:CD	2.79	0.45
2:b:5025:MET:O	2:b:5027:THR:N	2.50	0.45
2:b:5181:VAL:HG11	2:b:5196:GLY:HA2	1.97	0.45
2:b:5250:PHE:HB3	29:b:6058:DGD:HB82	1.98	0.45
2:b:5309:LEU:O	2:b:5309:LEU:HD12	2.17	0.45
2:b:5317:ASN:O	2:b:5319:PRO:HD3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5340:TRP:CZ3	2:b:5342:GLY:HA2	2.51	0.45
22:b:6022:CLA:H143	22:b:6022:CLA:H71	1.94	0.45
3:c:5139:THR:HG23	3:c:5142:GLU:HG3	1.98	0.45
3:c:5404:LEU:C	3:c:5406:SER:N	2.73	0.45
6:f:5024:HIS:O	6:f:5025:THR:C	2.59	0.45
6:f:5037:ILE:HG22	9:j:5028:PHE:HE1	1.81	0.45
7:h:5004:ARG:O	7:h:5005:THR:CG2	2.60	0.45
12:m:5029:THR:C	12:m:5031:SER:H	2.24	0.45
1:A:199:GLN:HE21	1:A:199:GLN:HB3	1.47	0.45
26:A:1063:LHG:C32	22:K:1034:CLA:C15	2.87	0.45
2:B:55:MET:CE	2:B:80:ILE:CG2	2.93	0.45
2:B:271:THR:HG23	2:B:271:THR:O	2.16	0.45
22:B:1010:CLA:CMD	22:B:1011:CLA:H92	2.46	0.45
22:B:1012:CLA:HMD2	22:B:1020:CLA:H201	1.92	0.45
22:B:1015:CLA:H141	22:B:1015:CLA:H161	1.77	0.45
28:B:1060:MGE:H5B2	4:D:276:VAL:CB	2.46	0.45
3:C:167:VAL:CG1	3:C:168:LEU:HD12	2.30	0.45
3:C:320:ARG:O	3:C:324:LEU:HB2	2.17	0.45
3:C:321:ASP:C	3:C:324:LEU:H	2.23	0.45
3:C:371:GLY:N	3:C:374:GLY:O	2.49	0.45
22:C:1025:CLA:C3A	22:C:1025:CLA:CGA	2.90	0.45
22:C:1027:CLA:HHC	22:C:1027:CLA:HBB1	1.98	0.45
22:C:1035:CLA:CBB	22:K:1034:CLA:CMA	2.91	0.45
22:C:1035:CLA:H61	25:C:1052:BCR:H401	1.99	0.45
4:D:275:PRO:O	4:D:278:GLY:N	2.50	0.45
4:D:326:ARG:HG3	4:D:326:ARG:NH1	2.32	0.45
22:D:1005:CLA:HBA2	22:D:1005:CLA:H3A	1.44	0.45
25:H:1049:BCR:HC8	25:H:1049:BCR:C32	2.40	0.45
22:K:1034:CLA:H91	22:K:1034:CLA:C12	2.44	0.45
13:O:52:ALA:O	13:O:53:ARG:HB3	2.15	0.45
13:O:59:ASP:HB3	13:O:61:SER:H	1.82	0.45
13:O:97:VAL:HB	13:O:133:THR:O	2.17	0.45
25:T:6046:BCR:C35	25:b:6047:BCR:C23	2.95	0.45
15:U:36:ILE:O	15:U:38:TYR:N	2.46	0.45
20:Z:26:ALA:CB	20:Z:40:ILE:HD11	2.47	0.45
24:a:6043:PQ9:H401	24:a:6043:PQ9:H361	1.70	0.45
2:b:5165:GLY:HA3	2:b:5179:GLN:C	2.42	0.45
22:b:6015:CLA:OBD	22:b:6015:CLA:CED	2.38	0.45
3:c:5143:TYR:O	3:c:5144:SER:C	2.59	0.45
3:c:5171:GLY:CA	22:c:6025:CLA:CBC	2.93	0.45
22:c:6026:CLA:H2	22:c:6026:CLA:H62	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6032:CLA:HBC2	22:c:6032:CLA:CHD	2.47	0.45
4:d:5180:ARG:NH1	4:d:5184:PHE:CD1	2.85	0.45
4:d:5201:VAL:HG23	22:d:6004:CLA:CMB	2.20	0.45
4:d:5269:PHE:C	4:d:5271:MET:N	2.72	0.45
4:d:5275:PRO:O	4:d:5278:GLY:N	2.50	0.45
24:d:6042:PQ9:C39	24:d:6042:PQ9:C42	2.36	0.45
24:d:6042:PQ9:H211	24:d:6042:PQ9:H251	1.71	0.45
25:d:6050:BCR:H331	25:d:6050:BCR:C8	2.28	0.45
5:e:5068:ASP:H	5:e:5075:GLN:HE21	1.65	0.45
10:k:5019:ASP:O	10:k:5023:ASP:OD1	2.33	0.45
10:k:5033:PHE:H	22:k:6034:CLA:HMA3	1.81	0.45
13:o:5185:PRO:O	13:o:5186:LYS:HB3	2.17	0.45
13:o:5252:GLY:O	13:o:5253:ALA:C	2.59	0.45
14:t:5011:ALA:C	14:t:5013:ILE:N	2.74	0.45
15:u:5037:GLN:O	15:u:5038:TYR:CD2	2.70	0.45
15:u:5088:GLU:HB3	15:u:5091:LEU:HB2	1.99	0.45
1:A:20:TRP:O	1:A:21:VAL:C	2.59	0.45
1:A:127:MET:C	1:A:130:GLN:HB3	2.42	0.45
1:A:151:LEU:CD2	29:C:1055:DGD:HBS2	2.46	0.45
1:A:265:PHE:HD1	1:A:271:LEU:CB	2.30	0.45
1:A:272:HIS:HB3	4:D:218:VAL:HG11	1.97	0.45
2:B:88:PRO:HB2	2:B:92:SER:HB2	1.99	0.45
2:B:165:GLY:HA3	2:B:179:GLN:C	2.42	0.45
2:B:241:SER:O	2:B:242:ILE:C	2.60	0.45
2:B:290:ALA:O	2:B:294:SER:HB2	2.16	0.45
3:C:33:PHE:CD2	4:D:229:ALA:HB1	2.51	0.45
3:C:296:VAL:HG23	3:C:297:TYR:CE1	2.51	0.45
3:C:461:ARG:HE	4:D:223:PHE:HD2	1.64	0.45
4:D:15:PHE:CE1	4:D:32:TRP:CZ2	2.98	0.45
4:D:273:PHE:C	4:D:273:PHE:CD2	2.95	0.45
4:D:308:ASP:O	4:D:310:GLU:N	2.50	0.45
24:D:1042:PQ9:C39	24:D:1042:PQ9:C42	2.36	0.45
5:E:13:ILE:HG21	31:F:1040:HEM:CBC	2.47	0.45
12:M:34:LYS:HE2	11:l:5009:PRO:CB	2.45	0.45
14:T:9:ILE:O	14:T:10:PHE:C	2.59	0.45
1:a:5055:ALA:H	1:a:5070:SER:CB	2.30	0.45
1:a:5104:GLU:OE1	13:o:5099:ARG:CD	2.65	0.45
1:a:5252:HIS:CD2	1:a:5264:SER:HB3	2.51	0.45
1:a:5258:LEU:O	1:a:5259:ILE:CG1	2.64	0.45
1:a:5308:ASP:HB2	5:e:5052:PRO:O	2.17	0.45
2:b:5021:ALA:HB2	2:b:5114:HIS:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5033:TRP:HA	2:b:5036:SER:HB2	1.99	0.45
2:b:5121:GLU:HB2	7:h:5004:ARG:CB	2.44	0.45
2:b:5139:PHE:O	2:b:5140:GLY:C	2.60	0.45
2:b:5271:THR:HG22	2:b:5274:GLN:CD	2.41	0.45
2:b:5271:THR:HG23	2:b:5271:THR:O	2.16	0.45
2:b:5460:LEU:HG	29:b:6058:DGD:CIA	2.47	0.45
2:b:5482:ILE:O	2:b:5483:ASP:CB	2.62	0.45
3:c:5293:ASN:HD22	3:c:5296:VAL:HG22	1.82	0.45
3:c:5386:PRO:C	3:c:5388:GLN:N	2.73	0.45
22:c:6028:CLA:H91	29:c:6056:DGD:C9B	2.47	0.45
4:d:5014:TRP:O	4:d:5017:ILE:HG13	2.16	0.45
4:d:5185:PHE:CD1	4:d:5289:LEU:HD13	2.52	0.45
22:d:6004:CLA:H111	22:d:6004:CLA:H71	1.71	0.45
25:d:6050:BCR:C21	28:d:6059:MGE:H3A2	2.47	0.45
10:k:5043:VAL:O	10:k:5043:VAL:CG1	2.64	0.45
11:l:5015:THR:O	11:l:5016:SER:C	2.60	0.45
13:o:5145:LEU:O	13:o:5146:PHE:C	2.59	0.45
15:u:5083:THR:CG2	15:u:5084:VAL:N	2.80	0.45
17:x:5044:ASP:O	17:x:5044:ASP:OD1	2.34	0.45
20:z:5016:SER:HA	20:z:5019:MET:HB2	1.97	0.45
1:A:81:ALA:HB2	1:A:175:GLY:HA3	1.98	0.45
1:A:204:GLY:O	1:A:205:VAL:C	2.58	0.45
2:B:185:TRP:CD1	2:B:185:TRP:H	2.33	0.45
2:B:340:TRP:CZ3	2:B:342:GLY:HA2	2.51	0.45
3:C:53:HIS:O	3:C:57:ALA:HB2	2.17	0.45
3:C:69:LEU:O	3:C:73:ALA:HB2	2.17	0.45
3:C:223:TRP:CD1	3:C:224:ILE:HD13	2.51	0.45
4:D:114:ILE:CG2	23:D:1039:PHO:H121	2.47	0.45
4:D:217:THR:HG23	4:D:218:VAL:N	2.32	0.45
7:H:30:LEU:HA	7:H:33:VAL:CG2	2.47	0.45
13:O:45:CYS:CB	13:O:46:PRO:HD2	2.32	0.45
13:O:185:PRO:O	13:O:186:LYS:HB3	2.17	0.45
15:U:32:ILE:HG13	15:U:50:VAL:HG21	1.98	0.45
15:U:37:GLN:O	15:U:38:TYR:CD2	2.70	0.45
15:U:73:GLN:O	15:U:74:ILE:C	2.59	0.45
19:N:2:UNK:O	19:N:3:UNK:C	2.65	0.45
1:a:5259:ILE:CD1	24:a:6043:PQ9:H242	2.37	0.45
2:b:5012:LEU:HD23	2:b:5019:LEU:HA	1.99	0.45
2:b:5025:MET:HE3	2:b:5025:MET:HB3	1.79	0.45
2:b:5088:PRO:HB2	2:b:5092:SER:HB2	1.99	0.45
2:b:5121:GLU:O	2:b:5124:ARG:N	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5224:ARG:HG2	7:h:5025:TRP:CD1	2.51	0.45
2:b:5237:VAL:HB	22:b:6020:CLA:HMD2	1.99	0.45
3:c:5128:GLY:HA3	22:c:6037:CLA:C3C	2.46	0.45
3:c:5206:PRO:O	3:c:5210:PHE:HB2	2.16	0.45
3:c:5340:TYR:CD2	3:c:5340:TYR:N	2.71	0.45
3:c:5431:PHE:CD2	3:c:5431:PHE:O	2.69	0.45
22:c:6026:CLA:HBB2	22:k:6034:CLA:H11	1.98	0.45
4:d:5261:PHE:HE2	4:d:5266:TRP:CD1	2.35	0.45
5:e:5010:PHE:CE1	6:f:5019:ARG:HD2	2.52	0.45
5:e:5037:PHE:CZ	5:e:5046:VAL:HG21	2.52	0.45
8:i:5004:LEU:HA	8:i:5004:LEU:HD12	1.79	0.45
22:k:6034:CLA:CHD	22:k:6034:CLA:CBC	2.84	0.45
13:o:5163:THR:OG1	13:o:5164:THR:N	2.50	0.45
13:o:5235:GLY:HA3	13:o:5269:ILE:O	2.17	0.45
15:u:5042:TYR:HD2	15:u:5043:PRO:N	2.12	0.45
15:u:5057:SER:OG	15:u:5060:ASP:OD2	2.34	0.45
16:v:5090:PRO:HD2	16:v:5092:ARG:NH1	2.32	0.45
18:y:5043:ARG:CZ	18:y:5043:ARG:H	2.30	0.45
1:A:119:PHE:O	1:A:121:LEU:N	2.50	0.44
2:B:46:ASP:N	2:B:58:GLN:HE22	2.15	0.44
2:B:67:ALA:O	2:B:68:ARG:C	2.60	0.44
2:B:249:ALA:C	2:B:251:VAL:N	2.75	0.44
2:B:460:LEU:HG	29:B:1058:DGD:CIA	2.47	0.44
22:B:1015:CLA:CBB	22:B:1015:CLA:HHC	2.46	0.44
25:B:1048:BCR:C40	25:B:1048:BCR:H372	2.29	0.44
3:C:318:LEU:CD2	3:C:318:LEU:C	2.90	0.44
22:C:1036:CLA:CMC	22:C:1036:CLA:CBC	2.95	0.44
22:C:1036:CLA:H162	22:C:1036:CLA:H122	1.60	0.44
22:D:1005:CLA:H203	22:D:1005:CLA:H161	1.75	0.44
25:D:1050:BCR:C21	28:D:1059:MGE:H3A2	2.47	0.44
9:J:24:ILE:CG2	9:J:25:VAL:N	2.80	0.44
13:O:47:THR:O	13:O:48:LEU:HD23	2.16	0.44
13:O:151:LEU:HG	13:O:152:VAL:N	2.31	0.44
13:O:163:THR:OG1	13:O:164:THR:N	2.50	0.44
15:U:26:ASP:C	15:U:26:ASP:OD1	2.60	0.44
15:U:57:SER:OG	15:U:60:ASP:OD2	2.34	0.44
18:Y:21:GLN:O	18:Y:25:ILE:CG2	2.65	0.44
1:a:5119:PHE:CZ	22:a:6003:CLA:H102	2.52	0.44
1:a:5161:TYR:CZ	1:a:5186:PHE:CE2	3.06	0.44
1:a:5320:ILE:O	1:a:5323:ARG:N	2.50	0.44
2:b:5018:ARG:HH21	2:b:5115:TRP:NE1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5089:GLY:O	2:b:5090:PHE:C	2.59	0.44
2:b:5168:VAL:HG12	2:b:5169:SER:H	1.80	0.44
3:c:5337:LEU:HD22	3:c:5342:MET:HG3	1.99	0.44
4:d:5014:TRP:CD1	4:d:5014:TRP:C	2.91	0.44
4:d:5053:THR:HG23	4:d:5067:TYR:CD2	2.52	0.44
4:d:5103:ARG:HG3	5:e:5073:LYS:HD3	1.97	0.44
4:d:5189:HIS:ND1	4:d:5294:ARG:HD3	2.31	0.44
5:e:5013:ILE:HG21	31:f:6040:HEM:CBC	2.47	0.44
9:j:5029:PHE:O	9:j:5030:TYR:C	2.60	0.44
13:o:5059:ASP:CB	13:o:5062:GLN:HB2	2.47	0.44
13:o:5059:ASP:HB3	13:o:5061:SER:H	1.82	0.44
13:o:5079:LYS:CE	13:o:5089:ALA:HB3	2.47	0.44
13:o:5097:VAL:HB	13:o:5133:THR:O	2.17	0.44
13:o:5184:ASP:OD2	13:o:5188:ARG:NH1	2.50	0.44
13:o:5265:PHE:CD1	13:o:5265:PHE:C	2.94	0.44
15:u:5024:LYS:HB3	15:u:5081:HIS:O	2.17	0.44
15:u:5026:ASP:C	15:u:5026:ASP:OD1	2.60	0.44
15:u:5043:PRO:HG3	16:v:5109:ASP:HA	1.97	0.44
19:n:5002:UNK:O	19:n:5003:UNK:C	2.65	0.44
1:A:27:ARG:HG3	1:A:27:ARG:NH1	2.33	0.44
1:A:38:ILE:HG22	1:A:39:PRO:CD	2.46	0.44
1:A:145:VAL:O	1:A:146:ALA:C	2.59	0.44
1:A:193:LEU:HD22	4:D:179:PHE:CG	2.52	0.44
22:A:1007:CLA:C6	22:A:1007:CLA:C11	2.92	0.44
2:B:121:GLU:HB2	7:H:4:ARG:CB	2.44	0.44
2:B:139:PHE:O	2:B:140:GLY:C	2.60	0.44
2:B:272:ARG:HA	2:B:319:PRO:HD2	1.99	0.44
2:B:477:ASP:OD2	4:D:134:ARG:NH1	2.43	0.44
3:C:62:PHE:HE2	10:K:29:PRO:CD	2.30	0.44
3:C:139:THR:HG23	3:C:142:GLU:HG3	1.98	0.44
3:C:210:PHE:HE1	3:C:239:TRP:CE3	2.35	0.44
3:C:225:VAL:HG23	3:C:226:SER:H	1.80	0.44
22:C:1028:CLA:H93	29:C:1056:DGD:HB91	1.97	0.44
22:C:1033:CLA:HMA3	22:K:1034:CLA:CAC	2.42	0.44
22:C:1035:CLA:CMB	25:C:1052:BCR:H271	2.46	0.44
29:C:1057:DGD:HAS2	28:D:1059:MGE:CDB	2.47	0.44
4:D:79:SER:C	4:D:80:THR:HG22	2.42	0.44
4:D:161:PRO:CG	4:D:170:ALA:HB2	2.47	0.44
4:D:297:ASP:O	4:D:298:PHE:HB2	2.15	0.44
4:D:308:ASP:OD1	4:D:310:GLU:HG2	2.17	0.44
13:O:48:LEU:HD12	13:O:229:LYS:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:T:4:ILE:O	14:T:8:PHE:N	2.48	0.44
15:U:24:LYS:HB3	15:U:81:HIS:O	2.17	0.44
16:V:90:PRO:HD2	16:V:92:ARG:NH1	2.32	0.44
18:Y:43:ARG:CD	20:Z:29:SER:HA	2.46	0.44
1:a:5027:ARG:HG3	1:a:5027:ARG:NH1	2.32	0.44
1:a:5193:LEU:HD22	4:d:5179:PHE:CG	2.52	0.44
1:a:5288:LEU:HD22	3:c:5432:VAL:HA	1.98	0.44
1:a:5318:ALA:HA	1:a:5321:ILE:HD12	1.99	0.44
1:a:5337:HIS:O	4:d:5350:ASN:O	2.35	0.44
2:b:5063:LEU:N	2:b:5064:PRO:HD3	2.33	0.44
2:b:5074:SER:HA	2:b:5092:SER:OG	2.16	0.44
2:b:5231:MET:HG2	22:b:6018:CLA:HAC2	1.98	0.44
2:b:5249:ALA:C	2:b:5251:VAL:N	2.75	0.44
28:b:6060:MGE:H5B2	4:d:5276:VAL:CB	2.46	0.44
22:c:6028:CLA:H202	22:c:6028:CLA:H161	1.61	0.44
22:c:6029:CLA:H11	22:c:6029:CLA:C1A	2.47	0.44
22:c:6031:CLA:H142	22:c:6031:CLA:H111	1.75	0.44
22:c:6036:CLA:CMC	22:c:6036:CLA:CBC	2.95	0.44
4:d:5016:ASP:O	4:d:5020:ASP:HB2	2.18	0.44
5:e:5024:SER:O	5:e:5028:PRO:HD2	2.17	0.44
5:e:5047:PHE:C	5:e:5049:THR:N	2.74	0.44
12:m:5027:VAL:O	12:m:5027:VAL:HG12	2.18	0.44
13:o:5210:ARG:NE	13:o:5252:GLY:O	2.49	0.44
17:x:5011:THR:O	17:x:5011:THR:CG2	2.65	0.44
20:z:5004:LEU:HD12	20:z:5004:LEU:O	2.17	0.44
1:A:276:ALA:O	1:A:280:VAL:HG23	2.17	0.44
1:A:320:ILE:HD13	1:A:320:ILE:HA	1.91	0.44
2:B:15:ASP:N	2:B:16:PRO:CD	2.79	0.44
2:B:341:LYS:HD2	2:B:429:ILE:HG22	2.00	0.44
3:C:53:HIS:HB2	22:C:1036:CLA:HMD2	1.98	0.44
3:C:78:GLU:H	3:C:78:GLU:CD	2.26	0.44
3:C:223:TRP:HD1	3:C:224:ILE:N	2.13	0.44
3:C:455:PHE:O	3:C:458:GLY:O	2.35	0.44
22:C:1035:CLA:HHC	22:C:1035:CLA:CBB	2.20	0.44
4:D:27:PHE:CD1	6:F:19:ARG:HG3	2.52	0.44
4:D:249:ALA:O	4:D:252:PHE:N	2.41	0.44
4:D:258:GLY:C	4:D:259:ILE:HD13	2.40	0.44
5:E:37:PHE:CZ	5:E:46:VAL:HG21	2.52	0.44
13:O:59:ASP:CB	13:O:62:GLN:HB2	2.47	0.44
15:U:61:VAL:HG12	15:U:75:LEU:CD2	2.37	0.44
16:V:103:LYS:CD	16:V:121:LEU:HD12	2.28	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5093:PHE:CB	3:c:5218:PHE:HD2	2.27	0.44
1:a:5328:MET:HE2	4:d:5183:LEU:HD13	1.98	0.44
1:a:5333:GLU:CB	1:a:5337:HIS:CE1	3.01	0.44
23:a:6038:PHO:C4	23:a:6038:PHO:C7	2.93	0.44
23:a:6038:PHO:CED	23:a:6038:PHO:OBD	2.66	0.44
2:b:5069:LEU:CD2	22:b:6013:CLA:O1A	2.64	0.44
2:b:5357:ARG:HH11	2:b:5357:ARG:CG	2.26	0.44
2:b:5367:PRO:O	2:b:5367:PRO:HG2	2.18	0.44
22:b:6012:CLA:H12	22:b:6013:CLA:C4	2.37	0.44
22:b:6016:CLA:H202	22:d:6008:CLA:HAA2	2.00	0.44
3:c:5069:LEU:O	3:c:5073:ALA:HB2	2.17	0.44
3:c:5078:GLU:H	3:c:5078:GLU:CD	2.26	0.44
3:c:5081:MET:SD	3:c:5090:PRO:HA	2.57	0.44
3:c:5318:LEU:CD2	3:c:5318:LEU:C	2.90	0.44
22:c:6027:CLA:HHC	22:c:6027:CLA:CBB	2.48	0.44
22:c:6031:CLA:CMD	22:c:6033:CLA:H162	2.48	0.44
4:d:5103:ARG:O	4:d:5106:GLN:N	2.48	0.44
4:d:5273:PHE:CD2	4:d:5273:PHE:C	2.95	0.44
4:d:5308:ASP:OD1	4:d:5310:GLU:HG2	2.18	0.44
25:h:6049:BCR:C40	17:x:5020:PHE:HZ	2.28	0.44
15:u:5068:THR:HG22	15:u:5071:GLN:CG	2.48	0.44
16:v:5088:ALA:HA	16:v:5108:TYR:CD2	2.48	0.44
18:y:5043:ARG:CD	20:z:5029:SER:HA	2.47	0.44
1:A:55:ALA:H	1:A:70:SER:CB	2.30	0.44
1:A:104:GLU:OE1	13:O:99:ARG:CD	2.65	0.44
1:A:215:HIS:ND1	24:A:1043:PQ9:O1	2.51	0.44
1:A:286:ALA:O	1:A:289:GLY:N	2.51	0.44
2:B:136:PRO:HB3	2:B:221:PRO:HG3	2.00	0.44
2:B:237:VAL:HB	22:B:1020:CLA:CMD	2.48	0.44
2:B:323:GLY:C	4:D:293:LEU:HD23	2.43	0.44
22:B:1012:CLA:CHD	22:B:1020:CLA:C20	2.94	0.44
25:B:1047:BCR:C23	25:t:1046:BCR:C35	2.95	0.44
3:C:79:LYS:HB3	3:C:84:GLN:CD	2.39	0.44
3:C:89:ILE:O	3:C:111:PHE:HE2	2.00	0.44
3:C:385:GLN:HB3	3:C:386:PRO:CD	2.48	0.44
22:C:1028:CLA:H91	29:C:1056:DGD:C9B	2.47	0.44
22:C:1033:CLA:H3A	22:C:1033:CLA:HBA1	1.75	0.44
4:D:247:VAL:C	4:D:249:ALA:H	2.26	0.44
4:D:262:SER:N	28:D:1062:MGE:O3D	2.51	0.44
8:I:6:ILE:O	8:I:10:ILE:HD11	2.17	0.44
8:I:25:SER:O	8:I:26:GLY:O	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:O:64:TYR:HA	13:O:271:PRO:HA	1.99	0.44
15:U:29:ASN:O	15:U:30:THR:C	2.60	0.44
15:U:68:THR:HG22	15:U:71:GLN:CG	2.48	0.44
1:a:5160:ILE:O	1:a:5161:TYR:C	2.60	0.44
2:b:5061:PHE:HB2	22:b:6015:CLA:CMA	2.48	0.44
22:b:6009:CLA:H141	22:b:6009:CLA:H162	1.64	0.44
22:b:6015:CLA:H71	22:b:6015:CLA:H42	1.94	0.44
22:b:6020:CLA:H112	22:b:6020:CLA:H91	1.56	0.44
3:c:5053:HIS:HB2	22:c:6036:CLA:HMD2	1.98	0.44
29:c:6057:DGD:O2D	9:j:5032:ALA:HB1	2.18	0.44
4:d:5049:LEU:HD13	25:d:6050:BCR:C14	2.47	0.44
4:d:5109:GLY:C	4:d:5111:TRP:H	2.25	0.44
4:d:5161:PRO:CG	4:d:5170:ALA:HB2	2.47	0.44
4:d:5253:TRP:O	4:d:5254:SER:C	2.61	0.44
4:d:5262:SER:N	28:d:6062:MGE:O3D	2.51	0.44
4:d:5270:PHE:CD1	4:d:5270:PHE:O	2.70	0.44
4:d:5337:GLU:HG2	4:d:5339:PHE:CZ	2.53	0.44
13:o:5070:CYS:HB2	13:o:5105:ASP:CB	2.47	0.44
14:t:5010:PHE:C	14:t:5010:PHE:CD1	2.95	0.44
1:A:20:TRP:CD1	1:A:26:ASN:HD21	2.35	0.44
1:A:89:ILE:HD13	1:A:94:TYR:CG	2.53	0.44
1:A:132:GLU:O	1:A:136:ARG:HG2	2.17	0.44
2:B:35:GLY:O	2:B:39:LEU:HG	2.18	0.44
2:B:153:PHE:HD1	2:B:157:HIS:CB	2.30	0.44
2:B:191:ASN:HD21	7:H:60:VAL:CA	2.19	0.44
2:B:196:GLY:C	2:B:198:VAL:N	2.74	0.44
22:B:1010:CLA:C2D	22:B:1011:CLA:HMB1	2.48	0.44
3:C:70:PHE:O	3:C:74:HIS:ND1	2.47	0.44
3:C:330:SER:HB2	13:O:126:GLY:O	2.17	0.44
22:C:1025:CLA:CHB	22:C:1025:CLA:O2A	2.60	0.44
25:C:1052:BCR:H403	25:C:1052:BCR:H24C	1.76	0.44
8:I:24:LEU:C	8:I:26:GLY:N	2.70	0.44
13:O:65:ARG:HG2	13:O:66:ILE:N	2.33	0.44
13:O:172:PHE:HD1	13:O:221:GLY:HA3	1.77	0.44
13:O:235:GLY:HA3	13:O:269:ILE:O	2.17	0.44
22:a:6006:CLA:H2	22:a:6006:CLA:H61	1.67	0.44
23:a:6038:PHO:H161	23:a:6038:PHO:H143	1.62	0.44
2:b:5101:ILE:O	25:b:6047:BCR:H391	2.17	0.44
2:b:5460:LEU:CA	29:b:6058:DGD:HAG1	2.38	0.44
3:c:5062:PHE:HE2	10:k:5029:PRO:CD	2.30	0.44
24:d:6042:PQ9:C40	11:l:5030:LEU:HD12	2.38	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:h:5030:LEU:HA	7:h:5033:VAL:CG2	2.48	0.44
13:o:5160:THR:O	13:o:5160:THR:CG2	2.66	0.44
13:o:5173:ASN:HD22	13:o:5173:ASN:HA	1.54	0.44
1:A:121:LEU:O	1:A:124:SER:N	2.51	0.44
1:A:309:ALA:HB3	16:V:28:GLU:CB	2.47	0.44
1:A:328:MET:HE2	4:D:183:LEU:HD13	1.98	0.44
24:A:1043:PQ9:H292	24:A:1043:PQ9:H393	1.99	0.44
2:B:151:PHE:HB2	2:B:206:GLY:HA3	1.98	0.44
2:B:488:PRO:O	2:B:489:GLU:CB	2.59	0.44
22:B:1016:CLA:H202	22:D:1008:CLA:HAA2	2.00	0.44
22:B:1019:CLA:H122	22:B:1019:CLA:H162	1.51	0.44
22:B:1022:CLA:H152	12:M:24:ILE:HG21	1.99	0.44
3:C:87:ILE:HG13	3:C:88:LEU:H	1.82	0.44
3:C:257:PHE:HD1	3:C:257:PHE:N	2.09	0.44
3:C:420:VAL:HG21	3:C:425:TRP:HZ2	1.83	0.44
22:C:1028:CLA:H91	29:C:1056:DGD:HB91	1.98	0.44
29:C:1057:DGD:HB72	28:D:1059:MGE:H7B1	1.99	0.44
4:D:109:GLY:C	4:D:111:TRP:H	2.25	0.44
4:D:145:ALA:HA	4:D:276:VAL:HG11	2.00	0.44
4:D:217:THR:CG2	4:D:218:VAL:N	2.81	0.44
4:D:265:ARG:NH1	4:D:265:ARG:CG	2.70	0.44
22:D:1005:CLA:H91	28:D:1062:MGE:H263	1.99	0.44
22:D:1008:CLA:H18	22:D:1008:CLA:H151	1.58	0.44
8:I:27:ASP:C	8:I:29:ALA:N	2.73	0.44
10:K:17:ILE:HB	10:K:18:PHE:CD1	2.53	0.44
13:O:52:ALA:HB1	13:O:229:LYS:HA	2.00	0.44
14:T:10:PHE:C	14:T:10:PHE:CD1	2.95	0.44
25:T:6046:BCR:H341	25:b:6047:BCR:H272	1.99	0.44
1:a:5119:PHE:O	1:a:5121:LEU:N	2.50	0.44
1:a:5187:GLN:CG	1:a:5325:ASN:HD21	2.16	0.44
1:a:5265:PHE:HD1	1:a:5271:LEU:CB	2.30	0.44
2:b:5241:SER:O	2:b:5242:ILE:C	2.60	0.44
22:b:6023:CLA:H151	22:b:6024:CLA:C4A	2.48	0.44
3:c:5046:SER:OG	3:c:5141:GLU:CB	2.60	0.44
3:c:5046:SER:OG	3:c:5141:GLU:CA	2.65	0.44
3:c:5207:ARG:O	3:c:5211:GLY:HA3	2.17	0.44
3:c:5431:PHE:C	3:c:5431:PHE:HD2	2.23	0.44
22:c:6033:CLA:C15	22:c:6033:CLA:C20	2.95	0.44
22:c:6035:CLA:HMC3	22:k:6034:CLA:CMB	2.48	0.44
4:d:5090:LEU:CD2	4:d:5109:GLY:H	2.31	0.44
4:d:5100:ASP:C	4:d:5102:THR:H	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:d:6050:BCR:C19	28:d:6059:MGE:H102	2.48	0.44
8:i:5006:ILE:O	8:i:5010:ILE:HD11	2.17	0.44
9:j:5024:ILE:CG2	9:j:5025:VAL:N	2.80	0.44
13:o:5048:LEU:HD12	13:o:5229:LYS:O	2.17	0.44
13:o:5052:ALA:HB1	13:o:5229:LYS:HA	2.00	0.44
13:o:5065:ARG:HG2	13:o:5066:ILE:N	2.33	0.44
13:o:5184:ASP:OD1	13:o:5188:ARG:HB2	2.18	0.44
1:A:137:LEU:HB3	1:A:139:MET:HE3	2.00	0.44
1:A:160:ILE:HD13	3:C:431:PHE:HE1	1.80	0.44
1:A:160:ILE:O	1:A:161:TYR:C	2.60	0.44
1:A:202:VAL:O	1:A:206:PHE:HB2	2.18	0.44
1:A:215:HIS:CD2	1:A:275:LEU:CD1	3.00	0.44
1:A:308:ASP:HB2	5:E:52:PRO:O	2.17	0.44
2:B:18:ARG:HH21	2:B:115:TRP:NE1	2.16	0.44
2:B:247:PHE:CE1	2:B:251:VAL:CG2	3.01	0.44
2:B:331:ASN:C	2:B:333:GLY:N	2.76	0.44
2:B:367:PRO:O	2:B:367:PRO:HG2	2.18	0.44
3:C:39:ASN:CG	22:C:1033:CLA:HBB2	2.42	0.44
3:C:143:TYR:CE2	22:C:1037:CLA:HED2	2.53	0.44
3:C:223:TRP:HD1	3:C:224:ILE:HD13	1.83	0.44
3:C:293:ASN:HD22	3:C:296:VAL:HG22	1.82	0.44
3:C:457:LYS:HD2	4:D:224:GLN:NE2	2.33	0.44
22:C:1035:CLA:H111	25:C:1052:BCR:H24C	1.98	0.44
4:D:85:MET:HA	5:E:69:ARG:HB3	2.00	0.44
4:D:253:TRP:HD1	24:D:1042:PQ9:H92	1.82	0.44
28:D:1062:MGE:H2G	28:D:1062:MGE:H1D	1.40	0.44
13:O:59:ASP:O	13:O:60:SER:HB2	2.16	0.44
13:O:92:VAL:HG12	13:O:93:PRO:HD2	2.00	0.44
15:U:51:LYS:O	15:U:52:ASN:O	2.36	0.44
31:V:1041:HEM:HHC	31:V:1041:HEM:HBB2	1.99	0.44
1:a:5031:GLY:HA3	1:a:5132:GLU:CD	2.42	0.44
1:a:5051:ALA:O	1:a:5055:ALA:HB3	2.18	0.44
1:a:5151:LEU:CD2	29:c:6055:DGD:HBS2	2.46	0.44
1:a:5202:VAL:O	1:a:5206:PHE:HB2	2.18	0.44
2:b:5030:VAL:HG22	22:b:6021:CLA:C2C	2.48	0.44
2:b:5046:ASP:N	2:b:5058:GLN:HE22	2.15	0.44
2:b:5220:ARG:CD	7:h:5020:LYS:O	2.58	0.44
22:b:6011:CLA:C2D	22:b:6013:CLA:H12	2.45	0.44
3:c:5053:HIS:O	3:c:5057:ALA:HB2	2.17	0.44
3:c:5206:PRO:HG2	3:c:5207:ARG:HH11	1.81	0.44
3:c:5239:TRP:HE3	3:c:5243:ILE:HD11	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5277:GLY:HA3	3:c:5441:HIS:HD2	1.81	0.44
3:c:5440:GLY:O	3:c:5442:LEU:N	2.50	0.44
3:c:5455:PHE:O	3:c:5458:GLY:O	2.35	0.44
22:c:6025:CLA:C4	22:c:6025:CLA:HMB3	2.40	0.44
22:c:6037:CLA:H142	22:c:6037:CLA:C10	2.48	0.44
4:d:5103:ARG:HA	4:d:5106:GLN:HE21	1.83	0.44
4:d:5114:ILE:CG2	23:d:6039:PHO:H121	2.47	0.44
4:d:5155:SER:HA	4:d:5159:ILE:CG1	2.47	0.44
4:d:5161:PRO:CG	4:d:5170:ALA:CB	2.96	0.44
4:d:5347:PRO:C	4:d:5348:ARG:HG3	2.43	0.44
10:k:5032:PHE:C	10:k:5034:ALA:N	2.74	0.44
11:l:5024:ILE:CD1	12:m:5018:PRO:HB2	2.48	0.44
13:o:5058:ILE:HG23	13:o:5160:THR:O	2.18	0.44
13:o:5216:PHE:C	13:o:5216:PHE:CD2	2.94	0.44
16:v:5090:PRO:HD2	16:v:5092:ARG:NH2	2.32	0.44
31:v:6041:HEM:HBB2	31:v:6041:HEM:HHC	1.99	0.44
1:A:310:LYS:HD3	1:A:312:ASN:ND2	2.33	0.44
2:B:6:TYR:H	2:B:6:TYR:HD2	1.57	0.44
2:B:30:VAL:HG22	22:B:1021:CLA:C2C	2.48	0.44
2:B:168:VAL:HG12	2:B:169:SER:H	1.79	0.44
2:B:264:PRO:HG3	2:B:267:LEU:HD12	1.99	0.44
2:B:272:ARG:NH2	2:B:276:ASP:OD2	2.50	0.44
3:C:262:ARG:O	8:I:28:PRO:HG2	2.17	0.44
22:C:1031:CLA:H142	22:C:1031:CLA:H111	1.75	0.44
25:C:1052:BCR:C33	25:C:1052:BCR:C8	2.91	0.44
4:D:161:PRO:CG	4:D:170:ALA:CB	2.96	0.44
4:D:170:ALA:C	4:D:171:PRO:O	2.59	0.44
4:D:250:ASN:O	4:D:252:PHE:N	2.51	0.44
4:D:347:PRO:C	4:D:348:ARG:HG3	2.43	0.44
6:F:41:GLN:HG3	9:J:27:LEU:CD2	2.48	0.44
10:K:38:VAL:CG1	18:Y:36:ILE:HG12	2.48	0.44
13:O:173:ASN:HD22	13:O:173:ASN:HA	1.54	0.44
15:U:41:LEU:HD11	15:U:74:ILE:HG22	2.00	0.44
1:a:5180:PHE:HD1	4:d:5192:THR:HB	1.73	0.44
1:a:5252:HIS:HE2	1:a:5264:SER:HB3	1.83	0.44
1:a:5276:ALA:O	1:a:5280:VAL:HG23	2.17	0.44
22:a:6007:CLA:HAC1	25:a:6044:BCR:C16	2.48	0.44
2:b:5006:TYR:O	22:b:6019:CLA:CBA	2.66	0.44
2:b:5134:ASP:H	7:h:5015:ASN:ND2	2.15	0.44
2:b:5237:VAL:HB	22:b:6020:CLA:CMD	2.48	0.44
2:b:5323:GLY:C	4:d:5293:LEU:HD23	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5064:ALA:O	3:c:5068:THR:HB	2.18	0.44
3:c:5118:HIS:O	3:c:5119:LEU:C	2.61	0.44
3:c:5139:THR:HG23	3:c:5142:GLU:CG	2.48	0.44
3:c:5166:ILE:CD1	3:c:5248:GLY:HA3	2.45	0.44
3:c:5204:LEU:O	3:c:5205:ASP:C	2.61	0.44
3:c:5262:ARG:O	8:i:5028:PRO:HG2	2.17	0.44
3:c:5327:ASN:ND2	3:c:5330:SER:C	2.75	0.44
22:c:6026:CLA:H142	22:c:6026:CLA:H111	1.69	0.44
4:d:5031:GLY:O	4:d:5032:TRP:C	2.61	0.44
4:d:5046:GLY:CA	25:d:6050:BCR:H10C	2.48	0.44
4:d:5096:GLU:HG2	4:d:5097:ALA:H	1.82	0.44
4:d:5250:ASN:O	4:d:5252:PHE:N	2.51	0.44
7:h:5012:ARG:N	7:h:5013:PRO:CD	2.79	0.44
22:h:6017:CLA:H3A	22:h:6017:CLA:CGA	2.46	0.44
10:k:5012:PRO:HB3	20:z:5062:VAL:HG21	2.00	0.44
15:u:5036:ILE:HG22	15:u:5042:TYR:CB	2.48	0.44
1:A:95:PRO:HD2	1:A:98:GLU:HB2	2.00	0.44
1:A:133:LEU:HB3	4:D:252:PHE:HE2	1.83	0.44
1:A:197:PHE:O	1:A:198:HIS:C	2.61	0.44
1:A:223:LEU:CD1	4:D:265:ARG:HG2	2.46	0.44
2:B:47:PRO:O	2:B:48:SER:C	2.61	0.44
2:B:68:ARG:CD	22:B:1011:CLA:HED1	2.48	0.44
2:B:101:ILE:O	25:B:1047:BCR:H391	2.17	0.44
2:B:167:TRP:C	2:B:168:VAL:HG23	2.43	0.44
2:B:407:ASN:O	2:B:409:GLN:N	2.51	0.44
2:B:452:THR:HB	4:D:291:LEU:CD1	2.48	0.44
2:B:482:ILE:O	2:B:483:ASP:CB	2.62	0.44
3:C:305:THR:O	3:C:308:GLU:N	2.50	0.44
3:C:448:ALA:C	3:C:450:ALA:N	2.74	0.44
29:C:1056:DGD:C2B	29:C:1056:DGD:HG12	2.40	0.44
4:D:90:LEU:CD2	4:D:109:GLY:H	2.31	0.44
4:D:180:ARG:NH1	4:D:184:PHE:CD1	2.85	0.44
4:D:221:THR:CG2	4:D:248:THR:HB	2.46	0.44
4:D:303:ILE:HG21	12:M:2:GLU:HB3	2.00	0.44
7:H:30:LEU:C	22:H:1017:CLA:HMD1	2.43	0.44
10:K:30:VAL:O	10:K:32:PHE:N	2.50	0.44
12:M:20:VAL:CG2	12:m:5020:VAL:HG11	2.48	0.44
12:M:27:VAL:O	12:M:27:VAL:HG12	2.18	0.44
16:V:35:THR:HG23	16:V:46:THR:CA	2.47	0.44
16:V:106:THR:HA	16:V:114:ILE:HG22	2.00	0.44
16:V:126:ILE:O	16:V:128:PRO:HD3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5132:GLU:O	1:a:5136:ARG:HG2	2.17	0.44
1:a:5143:ILE:CG2	1:a:5144:CYS:N	2.81	0.44
1:a:5177:SER:HA	1:a:5180:PHE:HD2	1.83	0.44
1:a:5215:HIS:ND1	24:a:6043:PQ9:O1	2.51	0.44
1:a:5279:ARG:CZ	1:a:5283:VAL:CG2	2.95	0.44
25:a:6044:BCR:C37	25:a:6044:BCR:C30	2.62	0.44
2:b:5136:PRO:HB3	2:b:5221:PRO:HG3	2.00	0.44
2:b:5291:SER:O	2:b:5296:ALA:HB3	2.18	0.44
3:c:5075:PHE:O	10:k:5010:LYS:HE3	2.18	0.44
3:c:5223:TRP:HD1	3:c:5224:ILE:HD13	1.83	0.44
3:c:5305:THR:O	3:c:5308:GLU:N	2.50	0.44
3:c:5385:GLN:HB3	3:c:5386:PRO:CD	2.48	0.44
22:c:6025:CLA:CHB	22:c:6025:CLA:O2A	2.60	0.44
4:d:5217:THR:HG23	4:d:5218:VAL:N	2.32	0.44
4:d:5253:TRP:HD1	24:d:6042:PQ9:H92	1.82	0.44
4:d:5303:ILE:HG21	12:m:5002:GLU:HB3	2.00	0.44
4:d:5326:ARG:HG3	4:d:5326:ARG:NH1	2.32	0.44
24:d:6042:PQ9:H393	11:l:5026:VAL:CG1	2.48	0.44
6:f:5041:GLN:HG3	9:j:5027:LEU:CD2	2.48	0.44
9:j:5007:ARG:HG2	9:j:5007:ARG:NH1	2.31	0.44
10:k:5017:ILE:HB	10:k:5018:PHE:CD1	2.53	0.44
12:m:5033:GLN:C	12:m:5035:SER:H	2.26	0.44
1:A:213:ALA:CB	23:D:1039:PHO:HBC1	2.47	0.43
1:A:341:LEU:O	1:A:343:LEU:N	2.48	0.43
2:B:124:ARG:HA	2:B:124:ARG:HD3	1.74	0.43
2:B:153:PHE:O	2:B:154:GLY:C	2.59	0.43
22:B:1023:CLA:H91	22:B:1024:CLA:H152	1.88	0.43
22:B:1023:CLA:H61	22:B:1023:CLA:H2	1.47	0.43
3:C:86:LEU:HB3	3:C:90:PRO:HD3	1.98	0.43
3:C:87:ILE:HG13	3:C:88:LEU:N	2.32	0.43
3:C:266:TRP:HB3	3:C:271:TYR:HH	1.79	0.43
3:C:281:MET:CG	3:C:285:ILE:HD11	2.48	0.43
3:C:379:LYS:O	3:C:380:ILE:C	2.61	0.43
22:C:1026:CLA:HBB2	22:K:1034:CLA:H11	1.98	0.43
22:C:1028:CLA:C1C	29:C:1056:DGD:HA31	2.47	0.43
22:C:1029:CLA:H11	22:C:1029:CLA:C1A	2.47	0.43
4:D:270:PHE:O	4:D:270:PHE:CD1	2.70	0.43
28:D:1062:MGE:O1A	28:D:1062:MGE:C4B	2.66	0.43
5:E:10:PHE:CE1	6:F:19:ARG:HD2	2.52	0.43
10:K:28:ILE:HA	10:K:31:LEU:HG	1.99	0.43
11:L:24:ILE:CD1	12:M:18:PRO:HB2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:O:44:LYS:HB3	13:O:72:GLN:OE1	2.18	0.43
16:V:90:PRO:HD2	16:V:92:ARG:NH2	2.33	0.43
1:a:5058:VAL:CG2	1:a:5083:VAL:HG23	2.48	0.43
1:a:5129:ARG:NH1	4:d:5256:ILE:HD12	2.32	0.43
1:a:5145:VAL:O	1:a:5146:ALA:C	2.59	0.43
2:b:5167:TRP:C	2:b:5168:VAL:HG23	2.43	0.43
2:b:5272:ARG:HA	2:b:5319:PRO:HD2	2.00	0.43
2:b:5407:ASN:O	2:b:5409:GLN:N	2.51	0.43
3:c:5127:PHE:C	3:c:5130:VAL:HG12	2.42	0.43
3:c:5176:VAL:O	3:c:5180:MET:N	2.45	0.43
3:c:5210:PHE:HE1	3:c:5239:TRP:CE3	2.35	0.43
3:c:5420:VAL:HG21	3:c:5425:TRP:HZ2	1.83	0.43
3:c:5429:SER:O	3:c:5432:VAL:CG1	2.60	0.43
3:c:5457:LYS:HD2	4:d:5224:GLN:NE2	2.33	0.43
22:c:6028:CLA:H62	29:c:6057:DGD:HA42	2.00	0.43
22:d:6005:CLA:H203	22:d:6005:CLA:H161	1.75	0.43
7:h:5056:ASP:C	7:h:5058:VAL:H	2.26	0.43
13:o:5064:TYR:HA	13:o:5271:PRO:HA	1.99	0.43
13:o:5163:THR:C	13:o:5165:SER:H	2.26	0.43
20:z:5026:ALA:CB	20:z:5040:ILE:HD11	2.47	0.43
1:A:177:SER:HA	1:A:180:PHE:HD2	1.83	0.43
23:A:1038:PHO:OBD	23:A:1038:PHO:CED	2.66	0.43
2:B:28:ALA:HB2	2:B:107:LEU:CB	2.48	0.43
2:B:63:LEU:N	2:B:64:PRO:HD3	2.33	0.43
3:C:45:LEU:HB3	3:C:46:SER:H	1.59	0.43
3:C:69:LEU:HD21	3:C:116:VAL:HG22	2.01	0.43
3:C:118:HIS:O	3:C:119:LEU:C	2.61	0.43
3:C:204:LEU:O	3:C:205:ASP:C	2.61	0.43
3:C:284:PHE:HB3	29:C:1055:DGD:HB81	2.00	0.43
3:C:293:ASN:OD1	3:C:294:ASN:N	2.51	0.43
3:C:405:ASN:OD1	3:C:405:ASN:C	2.61	0.43
3:C:460:ASP:OD1	3:C:462:GLU:HG2	2.18	0.43
22:C:1026:CLA:HBB1	22:K:1034:CLA:HMD2	2.00	0.43
22:C:1032:CLA:HBD	22:C:1032:CLA:HAA1	2.01	0.43
22:C:1035:CLA:HMC3	22:K:1034:CLA:CMB	2.48	0.43
29:C:1057:DGD:O2D	9:J:32:ALA:HB1	2.18	0.43
4:D:267:LEU:C	4:D:267:LEU:CD2	2.91	0.43
22:D:1005:CLA:HBC1	22:D:1004:CLA:CBB	2.34	0.43
5:E:8:ARG:HB2	6:F:13:TYR:CB	2.48	0.43
13:O:70:CYS:HB2	13:O:105:ASP:CB	2.47	0.43
2:b:5049:ASP:C	2:b:5051:VAL:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5226:TYR:O	2:b:5226:TYR:CD2	2.66	0.43
2:b:5249:ALA:CB	2:b:5459:ALA:CB	2.95	0.43
2:b:5345:VAL:HG23	2:b:5345:VAL:O	2.18	0.43
22:b:6011:CLA:CGD	22:b:6013:CLA:H11	2.42	0.43
22:b:6019:CLA:H122	22:b:6019:CLA:H162	1.51	0.43
22:b:6022:CLA:H152	12:m:5024:ILE:HG21	1.99	0.43
3:c:5056:HIS:O	3:c:5059:LEU:N	2.52	0.43
3:c:5087:ILE:HG13	3:c:5088:LEU:N	2.33	0.43
3:c:5293:ASN:OD1	3:c:5294:ASN:N	2.51	0.43
3:c:5330:SER:HB2	13:o:5126:GLY:O	2.17	0.43
22:c:6036:CLA:H13	22:c:6036:CLA:H102	1.50	0.43
24:d:6042:PQ9:H42	24:d:6042:PQ9:H391	0.62	0.43
7:h:5030:LEU:C	22:h:6017:CLA:HMD1	2.43	0.43
13:o:5041:LEU:C	13:o:5043:ASN:N	2.77	0.43
25:t:1046:BCR:C33	25:t:1046:BCR:C8	2.72	0.43
15:u:5070:ARG:CZ	15:u:5074:ILE:HD11	2.49	0.43
1:A:51:ALA:O	1:A:55:ALA:HB3	2.18	0.43
1:A:285:PHE:O	1:A:288:LEU:HB2	2.19	0.43
22:A:1007:CLA:HAC1	25:A:1044:BCR:C16	2.48	0.43
22:A:1007:CLA:C14	8:I:13:THR:OG1	2.66	0.43
2:B:46:ASP:CG	2:B:48:SER:OG	2.61	0.43
2:B:69:LEU:HD12	2:B:69:LEU:HA	1.84	0.43
22:B:1015:CLA:H71	22:B:1015:CLA:H42	1.94	0.43
22:B:1023:CLA:H151	22:B:1024:CLA:C4A	2.48	0.43
25:B:1047:BCR:H272	25:t:1046:BCR:H341	2.00	0.43
3:C:56:HIS:O	3:C:59:LEU:N	2.52	0.43
3:C:75:PHE:O	10:K:10:LYS:HE3	2.18	0.43
3:C:265:ILE:HG23	3:C:270:ALA:CB	2.48	0.43
3:C:337:LEU:HD22	3:C:342:MET:HG3	1.99	0.43
3:C:440:GLY:O	3:C:442:LEU:N	2.50	0.43
22:C:1035:CLA:H152	20:Z:20:VAL:HG13	1.98	0.43
4:D:48:TRP:CD1	23:D:1039:PHO:H162	2.53	0.43
4:D:57:SER:OG	4:D:65:SER:CB	2.64	0.43
4:D:96:GLU:HG2	4:D:97:ALA:H	1.82	0.43
24:D:1042:PQ9:H393	11:L:26:VAL:CG1	2.48	0.43
22:H:1017:CLA:H93	22:H:1017:CLA:H62	1.59	0.43
9:J:10:LEU:CD2	9:J:11:TRP:H	2.31	0.43
13:O:184:ASP:OD2	13:O:188:ARG:NH1	2.50	0.43
15:U:36:ILE:HG22	15:U:42:TYR:CB	2.48	0.43
15:U:36:ILE:HA	15:U:42:TYR:HB2	2.01	0.43
16:V:95:ILE:O	16:V:99:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5037:MET:SD	1:a:5126:TYR:HA	2.59	0.43
1:a:5038:ILE:O	1:a:5042:LEU:HD23	2.18	0.43
1:a:5133:LEU:HD23	4:d:5252:PHE:CD2	2.53	0.43
23:a:6038:PHO:O1D	23:a:6038:PHO:C2A	2.57	0.43
2:b:5113:TRP:HD1	2:b:5114:HIS:N	2.16	0.43
2:b:5185:TRP:HZ3	2:b:5204:ALA:HB2	1.83	0.43
2:b:5278:SER:O	2:b:5279:TYR:C	2.61	0.43
2:b:5298:LEU:HD11	2:b:5302:TRP:NE1	2.27	0.43
22:b:6010:CLA:C2D	22:b:6011:CLA:HMB1	2.48	0.43
22:b:6022:CLA:C14	22:b:6022:CLA:C7	2.70	0.43
22:b:6022:CLA:H62	22:b:6022:CLA:H141	1.75	0.43
3:c:5029:GLU:C	3:c:5029:GLU:CD	2.86	0.43
3:c:5082:TYR:HD1	3:c:5419:PHE:HE2	1.67	0.43
3:c:5143:TYR:CE2	22:c:6037:CLA:HED2	2.53	0.43
3:c:5265:ILE:HG23	3:c:5270:ALA:CB	2.48	0.43
3:c:5320:ARG:O	3:c:5324:LEU:HB2	2.17	0.43
3:c:5321:ASP:HB2	3:c:5340:TYR:HE1	1.83	0.43
3:c:5348:GLU:OE2	3:c:5373:ASN:HB3	2.18	0.43
4:d:5185:PHE:O	4:d:5190:ASN:N	2.50	0.43
22:d:6005:CLA:H41	22:d:6005:CLA:H61	1.58	0.43
6:f:5015:ILE:HD12	31:f:6040:HEM:CMD	2.49	0.43
10:k:5018:PHE:CD1	10:k:5018:PHE:N	2.86	0.43
10:k:5027:VAL:O	10:k:5031:LEU:HG	2.18	0.43
25:k:6052:BCR:C33	25:k:6052:BCR:C8	2.91	0.43
12:m:5009:ILE:CG2	12:m:5013:LEU:HD23	2.48	0.43
13:o:5074:THR:HG22	13:o:5263:GLY:HA2	2.00	0.43
15:u:5025:ILE:HG21	15:u:5035:PHE:CE2	2.47	0.43
16:v:5035:THR:HG23	16:v:5046:THR:CA	2.47	0.43
17:x:5013:THR:HG22	17:x:5014:PRO:HD2	2.00	0.43
1:A:93:PHE:HB2	3:C:218:PHE:CD2	2.47	0.43
1:A:161:TYR:CZ	1:A:186:PHE:CE2	3.06	0.43
23:A:1038:PHO:HBA1	23:A:1038:PHO:H3A	1.26	0.43
2:B:61:PHE:HB2	22:B:1015:CLA:CMA	2.48	0.43
2:B:103:LEU:HD12	2:B:103:LEU:C	2.44	0.43
2:B:113:TRP:HD1	2:B:114:HIS:N	2.16	0.43
2:B:185:TRP:HZ3	2:B:204:ALA:HB2	1.84	0.43
2:B:226:TYR:O	2:B:226:TYR:CD2	2.66	0.43
2:B:307:GLU:O	2:B:308:LYS:C	2.61	0.43
22:B:1013:CLA:H111	22:B:1013:CLA:H142	1.73	0.43
22:B:1022:CLA:CBC	22:B:1022:CLA:CHD	2.79	0.43
22:B:1023:CLA:CMB	22:B:1023:CLA:HBB1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1024:CLA:H111	22:B:1024:CLA:H143	1.77	0.43
3:C:64:ALA:O	3:C:68:THR:HB	2.18	0.43
3:C:123:ALA:HA	25:C:1052:BCR:C14	2.48	0.43
3:C:321:ASP:HB2	3:C:340:TYR:HE1	1.83	0.43
22:C:1026:CLA:C3	22:C:1026:CLA:CGA	2.96	0.43
22:C:1031:CLA:CMD	22:C:1033:CLA:H162	2.48	0.43
4:D:53:THR:HG23	4:D:67:TYR:HE2	1.83	0.43
4:D:90:LEU:O	22:D:1008:CLA:HED1	2.18	0.43
10:K:27:VAL:O	10:K:31:LEU:HG	2.18	0.43
25:K:1051:BCR:C23	25:K:1051:BCR:H392	2.48	0.43
16:V:47:LEU:HD21	16:V:51:GLN:HB2	2.01	0.43
18:Y:28:ILE:CG1	18:Y:29:GLY:N	2.78	0.43
1:a:5091:LEU:HD23	1:a:5091:LEU:HA	1.88	0.43
1:a:5213:ALA:CB	23:d:6039:PHO:HBC1	2.48	0.43
1:a:5301:ASN:HB3	3:c:5407:VAL:HG11	2.00	0.43
1:a:5309:ALA:O	1:a:5311:GLY:N	2.51	0.43
22:a:6007:CLA:C14	8:i:5013:THR:OG1	2.66	0.43
23:a:6038:PHO:C9	22:d:6005:CLA:C17	2.97	0.43
2:b:5028:ALA:HB2	2:b:5107:LEU:CB	2.48	0.43
2:b:5247:PHE:CE1	2:b:5251:VAL:CG2	3.01	0.43
2:b:5331:ASN:C	2:b:5333:GLY:N	2.76	0.43
22:b:6021:CLA:H62	28:b:6060:MGE:H231	2.01	0.43
3:c:5087:ILE:HG13	3:c:5088:LEU:H	1.83	0.43
3:c:5117:VAL:HG21	22:c:6027:CLA:C4	2.49	0.43
22:c:6026:CLA:HBB1	22:k:6034:CLA:HMD2	2.01	0.43
22:c:6032:CLA:HAA1	22:c:6032:CLA:HBD	2.01	0.43
22:c:6033:CLA:H202	22:c:6033:CLA:H162	1.78	0.43
29:c:6057:DGD:HB72	28:d:6059:MGE:H7B1	1.99	0.43
4:d:5027:PHE:CD1	6:f:5019:ARG:HG3	2.52	0.43
4:d:5111:TRP:O	4:d:5112:THR:C	2.61	0.43
4:d:5195:PRO:O	4:d:5196:PHE:C	2.61	0.43
4:d:5247:VAL:C	4:d:5249:ALA:H	2.26	0.43
5:e:5008:ARG:HB2	6:f:5013:TYR:CB	2.48	0.43
11:l:5026:VAL:CG1	11:l:5027:LEU:N	2.80	0.43
13:o:5044:LYS:HB3	13:o:5072:GLN:OE1	2.18	0.43
16:v:5095:ILE:O	16:v:5099:VAL:HG23	2.18	0.43
1:A:13:LEU:H	1:A:13:LEU:CD1	2.27	0.43
2:B:33:TRP:HA	2:B:36:SER:HB2	1.99	0.43
2:B:297:THR:O	2:B:298:LEU:C	2.60	0.43
2:B:359:MET:HB3	2:B:425:ILE:HG23	2.00	0.43
2:B:460:LEU:O	4:D:280:TRP:CZ3	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:B:1021:CLA:H62	28:B:1060:MGE:H231	2.01	0.43
3:C:29:GLU:C	3:C:29:GLU:CD	2.86	0.43
3:C:81:MET:SD	3:C:90:PRO:HA	2.57	0.43
3:C:224:ILE:CG2	25:C:1054:BCR:H381	2.34	0.43
4:D:16:ASP:O	4:D:20:ASP:HB2	2.18	0.43
4:D:31:GLY:O	4:D:32:TRP:C	2.61	0.43
4:D:103:ARG:HA	4:D:106:GLN:HE21	1.83	0.43
4:D:337:GLU:HG2	4:D:339:PHE:CZ	2.53	0.43
10:K:35:LEU:O	10:K:36:ALA:C	2.61	0.43
12:M:9:ILE:CG2	12:M:13:LEU:HD23	2.48	0.43
13:O:245:GLN:C	13:O:246:LEU:HD23	2.43	0.43
15:U:70:ARG:CZ	15:U:74:ILE:HD11	2.49	0.43
16:V:45:ILE:HG22	16:V:45:ILE:O	2.19	0.43
16:V:101:TYR:HE1	16:V:118:HIS:ND1	2.14	0.43
17:X:37:LEU:HD23	17:X:37:LEU:HA	1.74	0.43
1:a:5204:GLY:O	1:a:5208:GLY:N	2.47	0.43
1:a:5286:ALA:O	1:a:5289:GLY:N	2.51	0.43
1:a:5290:ILE:HG12	22:a:6003:CLA:OBD	2.19	0.43
2:b:5006:TYR:CD2	2:b:5006:TYR:N	2.76	0.43
2:b:5006:TYR:CE1	28:b:6060:MGE:H2D	2.53	0.43
2:b:5035:GLY:O	2:b:5039:LEU:HG	2.18	0.43
2:b:5046:ASP:CG	2:b:5048:SER:OG	2.61	0.43
2:b:5359:MET:HB3	2:b:5425:ILE:HG23	2.00	0.43
2:b:5424:ALA:C	2:b:5426:PHE:N	2.77	0.43
4:d:5096:GLU:H	4:d:5096:GLU:CD	2.26	0.43
4:d:5331:PRO:HD3	4:d:5341:PHE:HE2	1.82	0.43
22:d:6004:CLA:HAA2	22:d:6004:CLA:CBD	2.49	0.43
11:l:5024:ILE:C	11:l:5026:VAL:N	2.76	0.43
13:o:5092:VAL:HG12	13:o:5093:PRO:N	2.33	0.43
14:t:5028:ARG:HA	14:t:5028:ARG:HE	1.83	0.43
15:u:5051:LYS:O	15:u:5052:ASN:O	2.36	0.43
18:y:5043:ARG:CZ	20:z:5029:SER:HB3	2.49	0.43
1:A:59:ASP:OD2	1:A:59:ASP:N	2.51	0.43
1:A:143:ILE:CG2	1:A:144:CYS:N	2.81	0.43
1:A:218:LEU:O	1:A:219:VAL:C	2.59	0.43
1:A:271:LEU:O	1:A:274:PHE:N	2.52	0.43
1:A:281:VAL:CG1	1:A:285:PHE:HE1	2.32	0.43
1:A:320:ILE:O	1:A:323:ARG:N	2.50	0.43
1:A:323:ARG:HD2	1:A:323:ARG:HA	1.72	0.43
23:A:1038:PHO:C9	22:D:1005:CLA:C17	2.97	0.43
23:A:1038:PHO:C4	23:A:1038:PHO:C7	2.93	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:A:1043:PQ9:C45	24:A:1043:PQ9:C40	2.96	0.43
2:B:6:TYR:CE1	28:B:1060:MGE:H2D	2.53	0.43
2:B:12:LEU:HD23	2:B:19:LEU:HA	1.99	0.43
2:B:15:ASP:CG	2:B:18:ARG:HG3	2.43	0.43
2:B:188:ASP:OD1	7:H:58:VAL:HA	2.19	0.43
2:B:328:GLY:O	2:B:444:ARG:HG2	2.18	0.43
2:B:345:VAL:HG23	2:B:345:VAL:O	2.18	0.43
2:B:347:ARG:HG2	2:B:347:ARG:HH11	1.83	0.43
2:B:468:TRP:CE2	22:B:1019:CLA:HED2	2.53	0.43
3:C:81:MET:SD	3:C:89:ILE:HG22	2.59	0.43
3:C:139:THR:HG23	3:C:139:THR:O	2.18	0.43
3:C:142:GLU:CD	3:C:143:TYR:N	2.76	0.43
3:C:229:ASN:ND2	3:C:232:ASP:OD2	2.47	0.43
3:C:438:LEU:HD13	3:C:442:LEU:CD1	2.49	0.43
22:C:1027:CLA:HHC	22:C:1027:CLA:CBB	2.48	0.43
4:D:46:GLY:CA	25:D:1050:BCR:H10C	2.48	0.43
4:D:67:TYR:O	4:D:70:GLY:N	2.47	0.43
4:D:158:LEU:O	4:D:162:LEU:CG	2.66	0.43
25:D:1050:BCR:C19	28:D:1059:MGE:H102	2.48	0.43
7:H:56:ASP:C	7:H:58:VAL:H	2.26	0.43
13:O:58:ILE:HG23	13:O:160:THR:O	2.18	0.43
13:O:209:ALA:O	13:O:210:ARG:C	2.62	0.43
15:U:55:TYR:N	15:U:55:TYR:CD1	2.82	0.43
20:Z:4:LEU:HD12	20:Z:4:LEU:O	2.17	0.43
20:Z:44:SER:O	20:Z:48:ILE:CD1	2.66	0.43
1:a:5027:ARG:HG3	1:a:5027:ARG:HH11	1.84	0.43
1:a:5039:PRO:CD	22:a:6007:CLA:HBB2	2.45	0.43
1:a:5271:LEU:O	1:a:5274:PHE:N	2.52	0.43
1:a:5281:VAL:CG1	1:a:5285:PHE:HE1	2.32	0.43
1:a:5289:GLY:O	1:a:5293:MET:HE3	2.18	0.43
1:a:5310:LYS:HD3	1:a:5312:ASN:ND2	2.33	0.43
1:a:5330:VAL:HG11	4:d:5347:PRO:O	2.19	0.43
2:b:5068:ARG:CD	22:b:6011:CLA:HED1	2.48	0.43
2:b:5313:ASP:OD2	2:b:5358:ARG:NH2	2.50	0.43
2:b:5328:GLY:O	2:b:5444:ARG:HG2	2.18	0.43
3:c:5058:GLY:O	3:c:5059:LEU:C	2.61	0.43
3:c:5069:LEU:HD21	3:c:5116:VAL:HG22	2.00	0.43
3:c:5089:ILE:N	3:c:5090:PRO:CD	2.80	0.43
3:c:5117:VAL:CG2	22:c:6027:CLA:H162	2.49	0.43
3:c:5142:GLU:CD	3:c:5143:TYR:N	2.76	0.43
3:c:5281:MET:CG	3:c:5285:ILE:HD11	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5322:GLN:NE2	3:c:5381:LYS:HG2	2.34	0.43
3:c:5460:ASP:OD1	3:c:5462:GLU:HG2	2.18	0.43
4:d:5014:TRP:O	4:d:5017:ILE:CG1	2.67	0.43
4:d:5160:TYR:CZ	27:d:6068:IOD:I	3.40	0.43
7:h:5041:PHE:CD1	25:h:6049:BCR:H362	2.49	0.43
13:o:5260:LYS:O	13:o:5261:ILE:HD13	2.19	0.43
16:v:5081:ARG:O	16:v:5082:THR:C	2.62	0.43
16:v:5105:PRO:HD3	16:v:5120:SER:HB3	2.01	0.43
1:A:60:ILE:O	1:A:61:ASP:O	2.37	0.43
1:A:219:VAL:HG11	4:D:268:HIS:CD2	2.54	0.43
1:A:259:ILE:HD13	24:A:1043:PQ9:C24	2.38	0.43
1:A:259:ILE:N	4:D:128:ARG:NH2	2.58	0.43
1:A:301:ASN:HB3	3:C:407:VAL:HG11	2.00	0.43
1:A:330:VAL:HG11	4:D:347:PRO:O	2.19	0.43
24:A:1043:PQ9:H311	24:A:1043:PQ9:H291	1.68	0.43
2:B:6:TYR:OH	28:B:1060:MGE:H3D	2.19	0.43
2:B:278:SER:O	2:B:279:TYR:C	2.61	0.43
2:B:314:TYR:O	2:B:315:ILE:C	2.62	0.43
2:B:389:LYS:HB3	2:B:390:TYR:CE1	2.54	0.43
22:B:1011:CLA:H42	22:B:1011:CLA:O2A	2.19	0.43
22:B:1021:CLA:CED	22:B:1021:CLA:C2	2.89	0.43
28:B:1060:MGE:O1B	28:B:1060:MGE:C3G	2.63	0.43
3:C:145:SER:O	3:C:147:PHE:N	2.52	0.43
3:C:220:GLY:C	3:C:221:GLU:HG3	2.44	0.43
3:C:298:PRO:O	3:C:300:GLU:OE1	2.36	0.43
3:C:332:GLN:NE2	13:O:175:PRO:HG3	2.34	0.43
3:C:343:ARG:NH1	3:C:348:GLU:CB	2.82	0.43
3:C:348:GLU:OE2	3:C:373:ASN:HB3	2.18	0.43
4:D:185:PHE:O	4:D:190:ASN:N	2.50	0.43
4:D:277:THR:HG22	4:D:278:GLY:N	2.34	0.43
5:E:68:ASP:H	5:E:75:GLN:HE21	1.65	0.43
6:F:41:GLN:HG3	9:J:27:LEU:HG	2.01	0.43
9:J:7:ARG:HG2	9:J:7:ARG:NH1	2.31	0.43
22:K:1034:CLA:C4	22:K:1034:CLA:HBA1	2.49	0.43
13:O:59:ASP:CG	13:O:61:SER:HB2	2.43	0.43
13:O:69:LEU:HD12	13:O:69:LEU:C	2.44	0.43
13:O:92:VAL:HG12	13:O:93:PRO:N	2.33	0.43
13:O:160:THR:O	13:O:160:THR:CG2	2.66	0.43
13:O:172:PHE:CB	13:O:221:GLY:HA3	2.48	0.43
13:O:184:ASP:OD1	13:O:188:ARG:HB2	2.18	0.43
14:T:14:ILE:HG21	25:T:6046:BCR:H352	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5102:LEU:HD12	1:a:5102:LEU:C	2.44	0.43
1:a:5142:TRP:HE1	4:d:5219:GLU:HB3	1.84	0.43
1:a:5325:ASN:HD22	1:a:5325:ASN:HA	1.51	0.43
1:a:5340:PRO:CD	15:u:5103:TYR:HE2	2.32	0.43
22:a:6003:CLA:HHD	22:a:6003:CLA:CBC	2.33	0.43
22:a:6003:CLA:HAB	22:d:6004:CLA:C4B	2.49	0.43
22:a:6006:CLA:CAA	29:c:6057:DGD:HBN2	2.48	0.43
2:b:5003:LEU:O	11:l:5010:VAL:HA	2.19	0.43
2:b:5005:TRP:CZ2	28:l:6061:MGE:C2A	2.80	0.43
2:b:5463:PHE:CD2	29:b:6058:DGD:HAV1	2.54	0.43
3:c:5042:LEU:CG	3:c:5049:LEU:HD11	2.49	0.43
3:c:5145:SER:O	3:c:5147:PHE:N	2.52	0.43
3:c:5327:ASN:ND2	3:c:5330:SER:N	2.67	0.43
3:c:5342:MET:HG2	3:c:5343:ARG:N	2.34	0.43
22:c:6035:CLA:CBB	22:k:6034:CLA:CHB	2.96	0.43
4:d:5145:ALA:HA	4:d:5276:VAL:HG11	2.00	0.43
4:d:5176:ALA:O	4:d:5179:PHE:N	2.52	0.43
4:d:5191:TRP:O	4:d:5193:LEU:N	2.52	0.43
5:e:5077:GLU:C	5:e:5079:PHE:N	2.74	0.43
6:f:5016:PHE:CZ	31:f:6040:HEM:HBD2	2.54	0.43
7:h:5017:GLU:O	7:h:5017:GLU:HG2	2.19	0.43
9:j:5010:LEU:CD2	9:j:5011:TRP:H	2.31	0.43
10:k:5024:VAL:O	10:k:5025:LEU:C	2.62	0.43
25:k:6051:BCR:C23	25:k:6051:BCR:H392	2.48	0.43
11:l:5025:LEU:HB3	14:t:5013:ILE:HG12	2.01	0.43
13:o:5142:ILE:HA	13:o:5143:PRO:HD3	1.78	0.43
13:o:5245:GLN:C	13:o:5246:LEU:HD23	2.43	0.43
25:t:1046:BCR:C23	25:t:1046:BCR:C40	2.92	0.43
16:v:5045:ILE:O	16:v:5045:ILE:HG22	2.19	0.43
20:z:5029:SER:HB2	20:z:5031:GLN:HE21	1.83	0.43
1:A:38:ILE:O	1:A:42:LEU:HD23	2.18	0.43
1:A:63:ILE:HG12	1:A:65:GLU:N	2.34	0.43
1:A:295:PHE:HD2	3:C:291:TRP:CE2	2.37	0.43
22:A:1006:CLA:CAA	29:C:1057:DGD:HBN2	2.48	0.43
2:B:3:LEU:O	11:L:10:VAL:HA	2.19	0.43
2:B:181:VAL:HG11	2:B:196:GLY:HA2	1.98	0.43
2:B:291:SER:O	2:B:296:ALA:HB3	2.18	0.43
2:B:447:PRO:O	2:B:448:ARG:C	2.61	0.43
22:B:1011:CLA:CGD	22:B:1011:CLA:HAA2	2.48	0.43
22:B:1023:CLA:H111	22:B:1023:CLA:H142	1.61	0.43
3:C:139:THR:HG23	3:C:142:GLU:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:327:ASN:HD21	3:C:331:ALA:N	2.17	0.43
3:C:327:ASN:ND2	3:C:330:SER:N	2.67	0.43
22:C:1035:CLA:H143	22:C:1035:CLA:H112	1.79	0.43
4:D:111:TRP:O	4:D:112:THR:C	2.61	0.43
6:F:22:ALA:O	6:F:23:VAL:C	2.62	0.43
7:H:27:THR:HG22	22:H:1017:CLA:HMD2	2.01	0.43
25:T:6048:BCR:H23C	2:b:5109:LEU:HB3	2.01	0.43
16:V:107:THR:C	16:V:109:ASP:H	2.26	0.43
18:Y:43:ARG:HH21	18:Y:44:GLY:N	2.14	0.43
1:a:5089:ILE:HD13	1:a:5094:TYR:CG	2.53	0.43
1:a:5113:GLN:CA	1:a:5116:ILE:HG22	2.48	0.43
1:a:5113:GLN:HB3	1:a:5117:PHE:CE1	2.54	0.43
1:a:5133:LEU:HB3	4:d:5252:PHE:HE2	1.84	0.43
1:a:5183:MET:O	1:a:5186:PHE:N	2.52	0.43
1:a:5197:PHE:O	1:a:5198:HIS:C	2.61	0.43
1:a:5279:ARG:NH2	1:a:5283:VAL:HG22	2.34	0.43
1:a:5310:LYS:HG2	16:v:5151:ILE:CG2	2.46	0.43
2:b:5016:PRO:CG	2:b:5133:LEU:HD13	2.46	0.43
2:b:5055:MET:CE	2:b:5080:ILE:CG2	2.93	0.43
2:b:5067:ALA:O	2:b:5068:ARG:C	2.60	0.43
2:b:5238:LEU:N	22:b:6020:CLA:CMD	2.82	0.43
2:b:5452:THR:HB	4:d:5291:LEU:CD1	2.48	0.43
25:b:6047:BCR:C30	25:b:6047:BCR:C37	2.61	0.43
3:c:5123:ALA:HA	25:k:6052:BCR:C14	2.48	0.43
3:c:5139:THR:HG23	3:c:5139:THR:O	2.18	0.43
3:c:5284:PHE:HB3	29:c:6055:DGD:HB81	2.00	0.43
3:c:5327:ASN:HD21	3:c:5331:ALA:N	2.17	0.43
22:c:6026:CLA:H92	22:c:6026:CLA:H61	1.63	0.43
22:c:6035:CLA:H61	25:k:6052:BCR:H401	1.99	0.43
4:d:5090:LEU:O	22:d:6008:CLA:HED1	2.18	0.43
4:d:5263:ASN:OD1	4:d:5264:LYS:N	2.52	0.43
4:d:5297:ASP:OD1	4:d:5298:PHE:N	2.27	0.43
22:d:6008:CLA:H41	22:d:6008:CLA:H61	1.64	0.43
7:h:5031:MET:SD	22:h:6017:CLA:CAA	3.04	0.43
25:h:6049:BCR:C8	25:h:6049:BCR:C32	2.95	0.43
13:o:5188:ARG:NH1	13:o:5188:ARG:CB	2.76	0.43
15:u:5041:LEU:HD11	15:u:5074:ILE:HG22	2.00	0.43
1:A:147:TYR:CE2	23:A:1038:PHO:HAA1	2.53	0.43
1:A:329:GLU:O	1:A:332:HIS:ND1	2.47	0.43
22:B:1021:CLA:HBC3	25:B:1047:BCR:C34	2.49	0.43
3:C:46:SER:O	3:C:47:GLY:C	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:127:PHE:C	3:C:130:VAL:HG12	2.42	0.43
3:C:322:GLN:NE2	3:C:381:LYS:HG2	2.34	0.43
22:C:1028:CLA:H62	29:C:1057:DGD:HA42	2.01	0.43
22:C:1037:CLA:H142	22:C:1037:CLA:C10	2.48	0.43
4:D:39:PRO:CB	22:D:1008:CLA:CBB	2.97	0.43
7:H:30:LEU:CA	7:H:33:VAL:HG22	2.48	0.43
10:K:18:PHE:CD1	10:K:18:PHE:N	2.86	0.43
10:K:24:VAL:O	10:K:25:LEU:C	2.62	0.43
22:K:1034:CLA:H41	22:K:1034:CLA:C8	2.48	0.43
17:X:11:THR:O	17:X:11:THR:CG2	2.65	0.43
17:X:13:THR:HG22	17:X:14:PRO:HD2	2.00	0.43
20:Z:29:SER:HB2	20:Z:31:GLN:HE21	1.83	0.43
1:a:5131:TRP:CE3	1:a:5132:GLU:N	2.87	0.43
1:a:5201:GLY:C	1:a:5203:ALA:H	2.27	0.43
1:a:5310:LYS:HE2	16:v:5151:ILE:HG22	2.00	0.43
2:b:5103:LEU:HD12	2:b:5103:LEU:C	2.44	0.43
2:b:5307:GLU:O	2:b:5308:LYS:C	2.61	0.43
2:b:5341:LYS:HD2	2:b:5429:ILE:HG22	2.00	0.43
2:b:5460:LEU:HD23	2:b:5460:LEU:C	2.43	0.43
22:b:6023:CLA:CMB	22:b:6023:CLA:HBB1	2.48	0.43
3:c:5146:PHE:O	3:c:5147:PHE:HB2	2.19	0.43
3:c:5267:SER:O	3:c:5268:GLY:C	2.59	0.43
3:c:5436:PHE:HD2	3:c:5436:PHE:HA	1.72	0.43
22:c:6032:CLA:H121	10:k:5033:PHE:HZ	1.82	0.43
4:d:5217:THR:CG2	4:d:5218:VAL:N	2.81	0.43
5:e:5018:ARG:HG2	5:e:5022:ILE:HD11	2.01	0.43
8:i:5025:SER:O	8:i:5026:GLY:O	2.36	0.43
13:o:5079:LYS:HB2	13:o:5091:PHE:CE2	2.53	0.43
13:o:5092:VAL:HG12	13:o:5093:PRO:HD2	2.00	0.43
13:o:5104:LEU:CD1	13:o:5107:ILE:HD11	2.49	0.43
13:o:5266:TYR:CG	13:o:5267:ALA:N	2.86	0.43
16:v:5126:ILE:O	16:v:5128:PRO:HD3	2.18	0.43
20:z:5033:TRP:O	20:z:5037:LYS:HB3	2.19	0.43
2:B:24:LEU:HA	22:B:1023:CLA:HED3	2.01	0.43
2:B:62:VAL:HG11	22:B:1013:CLA:HED2	2.00	0.43
2:B:135:LEU:HB2	2:B:136:PRO:HD3	2.01	0.43
2:B:298:LEU:HG	2:B:402:TYR:CD2	2.53	0.43
2:B:338:GLN:HE21	2:B:338:GLN:CA	2.17	0.43
22:B:1009:CLA:CBA	22:B:1009:CLA:O2D	2.60	0.43
3:C:82:TYR:CD2	3:C:302:TYR:O	2.72	0.43
3:C:100:GLY:O	3:C:102:GLY:O	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:163:PHE:O	3:C:166:ILE:HG12	2.19	0.43
3:C:172:ALA:H	22:C:1025:CLA:HBC2	1.76	0.43
3:C:397:THR:O	3:C:399:ALA:N	2.52	0.43
22:C:1029:CLA:HMD1	22:C:1031:CLA:CAB	2.38	0.43
4:D:145:ALA:HB2	4:D:272:LEU:HD12	2.00	0.43
4:D:253:TRP:O	4:D:254:SER:C	2.61	0.43
4:D:263:ASN:OD1	4:D:264:LYS:N	2.52	0.43
13:O:36:ILE:O	13:O:36:ILE:CG2	2.66	0.43
13:O:74:THR:HG22	13:O:263:GLY:HA2	2.00	0.43
13:O:142:ILE:HA	13:O:143:PRO:HD3	1.78	0.43
13:O:163:THR:C	13:O:165:SER:H	2.26	0.43
13:O:266:TYR:CG	13:O:267:ALA:N	2.86	0.43
16:V:101:TYR:CE2	31:V:1041:HEM:HAA1	2.54	0.43
1:a:5199:GLN:HE21	1:a:5199:GLN:HB3	1.47	0.43
2:b:5034:ALA:O	2:b:5035:GLY:C	2.62	0.43
2:b:5037:MET:O	2:b:5038:ALA:C	2.62	0.43
2:b:5098:LEU:O	2:b:5098:LEU:HD22	2.19	0.43
2:b:5347:ARG:HG2	2:b:5347:ARG:HH11	1.83	0.43
2:b:5468:TRP:CE2	22:b:6019:CLA:HED2	2.53	0.43
22:b:6018:CLA:HHC	22:b:6018:CLA:CBB	2.20	0.43
3:c:5274:TYR:CE2	22:c:6031:CLA:HMC1	2.54	0.43
4:d:5085:MET:HA	5:e:5069:ARG:HB3	2.00	0.43
4:d:5226:GLY:CA	4:d:5234:ALA:CB	2.92	0.43
4:d:5312:GLU:CD	13:o:5185:PRO:HB3	2.43	0.43
8:i:5014:PHE:CE1	8:i:5018:LEU:HD12	2.42	0.43
25:k:6052:BCR:C8	25:k:6052:BCR:H331	2.49	0.43
13:o:5037:VAL:O	13:o:5037:VAL:HG13	2.19	0.43
13:o:5045:CYS:CB	13:o:5046:PRO:HD2	2.32	0.43
13:o:5115:SER:O	13:o:5116:ASP:CG	2.62	0.43
13:o:5145:LEU:HD12	13:o:5145:LEU:HA	1.80	0.43
13:o:5175:PRO:HG2	13:o:5176:SER:N	2.34	0.43
16:v:5047:LEU:HD21	16:v:5051:GLN:HB2	2.01	0.43
1:A:133:LEU:HD23	4:D:252:PHE:CD2	2.53	0.42
1:A:305:SER:HB3	3:C:415:ASN:HD21	1.84	0.42
2:B:34:ALA:O	2:B:35:GLY:C	2.62	0.42
2:B:98:LEU:O	2:B:98:LEU:HD22	2.19	0.42
2:B:98:LEU:C	2:B:98:LEU:CD1	2.87	0.42
2:B:359:MET:HA	2:B:360:PRO:HD2	1.85	0.42
3:C:128:GLY:N	22:C:1037:CLA:HAC2	2.34	0.42
3:C:321:ASP:OD2	3:C:321:ASP:N	2.52	0.42
22:C:1027:CLA:H62	22:C:1027:CLA:H41	1.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:C:1036:CLA:H42	22:C:1036:CLA:O2A	2.19	0.42
4:D:96:GLU:CD	4:D:96:GLU:H	2.26	0.42
4:D:195:PRO:O	4:D:196:PHE:C	2.61	0.42
4:D:276:VAL:HG23	4:D:277:THR:H	1.83	0.42
6:F:32:PHE:HD1	6:F:32:PHE:C	2.27	0.42
12:M:33:GLN:C	12:M:35:SER:H	2.26	0.42
13:O:227:VAL:HG13	13:O:237:ILE:HG13	2.00	0.42
16:V:105:PRO:HD3	16:V:120:SER:HB3	2.01	0.42
1:a:5147:TYR:CE2	23:a:6038:PHO:HAA1	2.53	0.42
1:a:5160:ILE:HD13	3:c:5431:PHE:HE1	1.80	0.42
1:a:5267:ASN:O	1:a:5268:SER:C	2.62	0.42
1:a:5271:LEU:C	1:a:5273:PHE:N	2.76	0.42
1:a:5281:VAL:O	1:a:5284:TRP:HB2	2.19	0.42
24:a:6043:PQ9:C45	24:a:6043:PQ9:C40	2.96	0.42
24:a:6043:PQ9:H37	24:a:6043:PQ9:H311	2.01	0.42
2:b:5047:PRO:O	2:b:5048:SER:C	2.61	0.42
2:b:5068:ARG:HE	2:b:5264:PRO:HD3	1.84	0.42
2:b:5099:ALA:C	2:b:5101:ILE:N	2.76	0.42
2:b:5159:THR:HG22	2:b:5199:VAL:HG11	2.01	0.42
2:b:5191:ASN:O	2:b:5194:ASN:N	2.52	0.42
2:b:5228:ALA:C	2:b:5230:ARG:H	2.27	0.42
2:b:5346:PHE:HE1	2:b:5421:ALA:HB2	1.84	0.42
22:b:6011:CLA:CGD	22:b:6011:CLA:HAA2	2.48	0.42
22:b:6015:CLA:C20	11:l:5027:LEU:HD13	2.49	0.42
3:c:5081:MET:SD	3:c:5089:ILE:HG22	2.59	0.42
3:c:5119:LEU:HD11	25:k:6052:BCR:C34	2.48	0.42
3:c:5154:LYS:HE3	3:c:5261:ARG:HE	1.83	0.42
3:c:5379:LYS:O	3:c:5380:ILE:C	2.61	0.42
4:d:5127:LEU:O	4:d:5130:PHE:HB2	2.19	0.42
4:d:5197:HIS:ND1	4:d:5197:HIS:C	2.76	0.42
4:d:5230:SER:C	4:d:5232:PHE:N	2.74	0.42
4:d:5236:ASN:OD1	4:d:5239:GLN:O	2.37	0.42
5:e:5048:GLY:O	5:e:5049:THR:C	2.61	0.42
6:f:5032:PHE:HD1	6:f:5032:PHE:C	2.27	0.42
7:h:5030:LEU:CA	7:h:5033:VAL:HG22	2.48	0.42
22:k:6034:CLA:H41	22:k:6034:CLA:C8	2.48	0.42
12:m:5031:SER:HA	12:m:5035:SER:O	2.19	0.42
13:o:5234:THR:HB	13:o:5236:GLU:HG3	2.01	0.42
14:t:5022:PHE:N	14:t:5022:PHE:HD1	2.17	0.42
1:A:58:VAL:CG2	1:A:83:VAL:HG23	2.49	0.42
1:A:113:GLN:CA	1:A:116:ILE:HG22	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:267:ASN:O	1:A:268:SER:C	2.62	0.42
1:A:289:GLY:O	1:A:293:MET:HE3	2.18	0.42
1:A:318:ALA:HA	1:A:321:ILE:HD12	2.00	0.42
22:A:1006:CLA:H161	25:D:1050:BCR:C27	2.44	0.42
2:B:6:TYR:O	22:B:1019:CLA:CBA	2.66	0.42
2:B:13:ILE:HD12	2:B:234:ILE:HG23	2.01	0.42
2:B:30:VAL:O	2:B:33:TRP:N	2.52	0.42
2:B:68:ARG:HE	2:B:264:PRO:HD3	1.84	0.42
2:B:99:ALA:C	2:B:101:ILE:N	2.76	0.42
2:B:237:VAL:HB	22:B:1020:CLA:HMD2	1.99	0.42
2:B:284:ILE:HD11	2:B:309:LEU:HG	2.01	0.42
22:B:1015:CLA:C20	11:L:27:LEU:HD13	2.49	0.42
3:C:54:VAL:HG12	3:C:125:LEU:O	2.19	0.42
3:C:89:ILE:HG23	3:C:111:PHE:HE2	1.80	0.42
3:C:130:VAL:CG2	22:C:1035:CLA:H102	2.49	0.42
3:C:151:TRP:O	3:C:152:LYS:C	2.62	0.42
22:C:1031:CLA:OBD	22:C:1033:CLA:C15	2.68	0.42
22:C:1035:CLA:CBB	22:K:1034:CLA:CHB	2.96	0.42
4:D:120:PHE:CD1	4:D:123:ILE:HD12	2.55	0.42
4:D:127:LEU:O	4:D:130:PHE:HB2	2.19	0.42
5:E:13:ILE:HG13	5:E:13:ILE:O	2.18	0.42
7:H:35:MET:SD	22:H:1017:CLA:H42	2.59	0.42
10:K:12:PRO:HB3	20:Z:62:VAL:HG21	2.00	0.42
22:K:1034:CLA:CGA	22:K:1034:CLA:C1A	2.97	0.42
12:M:31:SER:HA	12:M:35:SER:O	2.19	0.42
12:M:32:GLN:NE2	12:m:5031:SER:O	2.52	0.42
13:O:265:PHE:CD1	13:O:265:PHE:C	2.94	0.42
17:X:12:ILE:O	17:X:12:ILE:CG1	2.67	0.42
1:a:5060:ILE:O	1:a:5061:ASP:O	2.37	0.42
1:a:5120:LEU:HD13	1:a:5120:LEU:C	2.44	0.42
1:a:5285:PHE:O	1:a:5288:LEU:HB2	2.19	0.42
22:a:6003:CLA:C14	23:a:6038:PHO:C7	2.97	0.42
2:b:5015:ASP:CG	2:b:5018:ARG:HG3	2.43	0.42
2:b:5095:GLY:O	2:b:5099:ALA:CB	2.67	0.42
2:b:5264:PRO:HG3	2:b:5267:LEU:HD12	1.99	0.42
2:b:5347:ARG:O	2:b:5398:THR:HG22	2.19	0.42
2:b:5437:LEU:O	2:b:5438:ASN:HB3	2.19	0.42
3:c:5131:TYR:C	3:c:5133:ALA:N	2.77	0.42
3:c:5162:GLY:HA2	3:c:5248:GLY:HA2	2.01	0.42
22:c:6027:CLA:H62	22:c:6027:CLA:H41	1.60	0.42
22:c:6037:CLA:HHC	22:c:6037:CLA:CBB	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5088:SER:CA	7:h:5050:ASN:HD21	2.03	0.42
4:d:5191:TRP:CD1	4:d:5197:HIS:CD2	3.07	0.42
22:d:6008:CLA:H61	22:d:6008:CLA:H101	1.69	0.42
9:j:5018:GLY:HA3	25:k:6051:BCR:H371	2.01	0.42
12:m:5008:PHE:O	12:m:5012:ALA:CB	2.67	0.42
13:o:5069:LEU:HD12	13:o:5069:LEU:C	2.44	0.42
13:o:5231:ASP:CB	13:o:5234:THR:OG1	2.65	0.42
1:A:120:LEU:HD13	1:A:120:LEU:C	2.44	0.42
1:A:201:GLY:C	1:A:203:ALA:H	2.27	0.42
1:A:219:VAL:CB	4:D:268:HIS:HB3	2.49	0.42
1:A:280:VAL:CG2	4:D:212:ALA:HB1	2.49	0.42
1:A:290:ILE:HG12	22:A:1003:CLA:OBD	2.19	0.42
1:A:340:PRO:CD	15:U:103:TYR:HE2	2.32	0.42
2:B:89:GLY:O	2:B:90:PHE:C	2.59	0.42
2:B:139:PHE:CZ	22:H:1017:CLA:CMB	3.02	0.42
2:B:346:PHE:N	2:B:346:PHE:CD2	2.87	0.42
2:B:347:ARG:O	2:B:398:THR:HG22	2.20	0.42
22:B:1020:CLA:H8	22:B:1020:CLA:H51	1.91	0.42
29:B:1058:DGD:HBV2	4:D:287:VAL:HG22	2.01	0.42
3:C:164:HIS:CA	3:C:167:VAL:HB	2.47	0.42
3:C:397:THR:HG1	3:C:398:HIS:N	2.17	0.42
22:C:1033:CLA:C9	22:C:1036:CLA:CAA	2.97	0.42
22:C:1035:CLA:HBA1	22:C:1035:CLA:H3A	1.88	0.42
22:C:1037:CLA:H72	22:C:1037:CLA:H111	1.60	0.42
29:C:1056:DGD:HB32	29:C:1057:DGD:HA31	2.01	0.42
4:D:183:LEU:O	4:D:184:PHE:C	2.62	0.42
4:D:191:TRP:CD1	4:D:197:HIS:CD2	3.07	0.42
24:D:1042:PQ9:H27	24:D:1042:PQ9:H312	1.57	0.42
6:F:15:ILE:HD12	31:F:1040:HEM:CMD	2.49	0.42
6:F:16:PHE:CZ	31:F:1040:HEM:HBD2	2.54	0.42
9:J:29:PHE:O	9:J:30:TYR:C	2.60	0.42
11:L:29:LEU:C	11:L:29:LEU:CD1	2.90	0.42
13:O:41:LEU:C	13:O:43:ASN:N	2.77	0.42
13:O:92:VAL:CG1	13:O:93:PRO:CD	2.98	0.42
25:T:6046:BCR:C33	25:T:6046:BCR:C8	2.72	0.42
15:U:78:ASN:O	15:U:79:LEU:C	2.61	0.42
16:V:138:LEU:HA	16:V:138:LEU:HD23	1.79	0.42
20:Z:58:ASN:C	20:Z:60:PHE:N	2.77	0.42
1:a:5081:ALA:CA	1:a:5175:GLY:HA3	2.49	0.42
1:a:5259:ILE:HD13	24:a:6043:PQ9:C24	2.38	0.42
22:a:6003:CLA:H141	23:a:6038:PHO:C8	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:a:6006:CLA:H161	25:d:6050:BCR:C27	2.44	0.42
2:b:5192:PRO:HG3	7:h:5049:TYR:CD1	2.55	0.42
2:b:5298:LEU:HG	2:b:5402:TYR:CD2	2.54	0.42
2:b:5321:LYS:HZ3	2:b:5321:LYS:HA	1.85	0.42
22:b:6022:CLA:C9	22:b:6022:CLA:C13	2.78	0.42
3:c:5062:PHE:HZ	10:k:5028:ILE:HB	1.84	0.42
3:c:5100:GLY:O	3:c:5102:GLY:O	2.36	0.42
3:c:5128:GLY:N	22:c:6037:CLA:HAC2	2.34	0.42
3:c:5130:VAL:CG2	22:c:6035:CLA:H102	2.49	0.42
3:c:5220:GLY:C	3:c:5221:GLU:HG3	2.44	0.42
3:c:5276:LEU:HD22	3:c:5441:HIS:N	2.34	0.42
22:c:6028:CLA:HMC2	22:k:6034:CLA:CED	2.48	0.42
22:c:6029:CLA:C4D	22:c:6029:CLA:C1	2.85	0.42
4:d:5039:PRO:CB	22:d:6008:CLA:CBB	2.97	0.42
4:d:5048:TRP:CD1	23:d:6039:PHO:H162	2.53	0.42
4:d:5068:LEU:CA	6:f:5040:MET:SD	3.06	0.42
5:e:5027:ILE:HB	5:e:5028:PRO:CD	2.44	0.42
7:h:5035:MET:SD	22:h:6017:CLA:H42	2.59	0.42
7:h:5048:ILE:CA	7:h:5053:LEU:HB3	2.47	0.42
22:h:6017:CLA:H93	22:h:6017:CLA:H62	1.59	0.42
11:l:5019:LEU:N	11:l:5019:LEU:HD23	2.34	0.42
13:o:5227:VAL:HG13	13:o:5237:ILE:HG13	2.00	0.42
15:u:5031:ASN:ND2	15:u:5031:ASN:C	2.76	0.42
15:u:5036:ILE:HA	15:u:5042:TYR:HB2	2.00	0.42
20:z:5005:PHE:O	20:z:5008:ALA:HB3	2.19	0.42
1:A:62:GLY:CA	1:A:87:ASN:HB2	2.46	0.42
1:A:91:LEU:C	1:A:92:HIS:O	2.59	0.42
1:A:140:ARG:HB2	4:D:220:ASN:HA	2.01	0.42
1:A:183:MET:O	1:A:186:PHE:N	2.52	0.42
1:A:281:VAL:O	1:A:284:TRP:HB2	2.19	0.42
1:A:309:ALA:O	1:A:311:GLY:N	2.51	0.42
1:A:310:LYS:HE2	16:V:151:ILE:HG22	2.00	0.42
22:A:1006:CLA:H2	22:A:1006:CLA:H61	1.68	0.42
2:B:37:MET:O	2:B:38:ALA:C	2.62	0.42
2:B:95:GLY:O	2:B:99:ALA:CB	2.67	0.42
2:B:159:THR:HG22	2:B:199:VAL:HG11	2.01	0.42
2:B:268:PHE:CD1	2:B:268:PHE:N	2.88	0.42
2:B:437:LEU:O	2:B:438:ASN:HB3	2.19	0.42
22:B:1018:CLA:H112	22:B:1018:CLA:H142	1.64	0.42
22:B:1022:CLA:C9	22:B:1022:CLA:CBC	2.62	0.42
29:B:1058:DGD:HG11	7:H:50:ASN:HD22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:82:TYR:HD1	3:C:419:PHE:HE2	1.66	0.42
3:C:117:VAL:HG21	22:C:1027:CLA:C4	2.49	0.42
3:C:162:GLY:HA2	3:C:248:GLY:HA2	2.01	0.42
22:C:1028:CLA:HMC2	22:K:1034:CLA:CED	2.48	0.42
4:D:14:TRP:O	4:D:17:ILE:CG1	2.67	0.42
4:D:89:LEU:CD1	7:H:50:ASN:OD1	2.62	0.42
4:D:312:GLU:CD	13:O:185:PRO:HB3	2.43	0.42
22:D:1005:CLA:HBD	22:D:1005:CLA:HAA1	2.01	0.42
5:E:22:ILE:O	5:E:25:ILE:HG13	2.18	0.42
10:K:35:LEU:C	10:K:37:PHE:N	2.76	0.42
13:O:52:ALA:CB	13:O:229:LYS:HA	2.50	0.42
13:O:115:SER:O	13:O:116:ASP:CG	2.62	0.42
13:O:260:LYS:O	13:O:261:ILE:HD13	2.19	0.42
16:V:108:TYR:O	16:V:108:TYR:CD2	2.72	0.42
20:Z:45:GLY:O	20:Z:49:ALA:CB	2.67	0.42
1:a:5059:ASP:OD2	1:a:5059:ASP:N	2.51	0.42
1:a:5215:HIS:CD2	1:a:5275:LEU:CD1	3.00	0.42
2:b:5030:VAL:O	2:b:5033:TRP:N	2.52	0.42
2:b:5121:GLU:HB3	7:h:5004:ARG:HA	2.02	0.42
2:b:5135:LEU:HB2	2:b:5136:PRO:HD3	2.01	0.42
22:b:6022:CLA:C14	22:b:6022:CLA:C10	2.71	0.42
29:b:6058:DGD:HBV2	4:d:5287:VAL:HG22	2.01	0.42
3:c:5082:TYR:CD2	3:c:5302:TYR:O	2.72	0.42
3:c:5224:ILE:HG22	3:c:5289:PHE:CE1	2.54	0.42
3:c:5298:PRO:O	3:c:5300:GLU:OE1	2.36	0.42
3:c:5305:THR:O	3:c:5308:GLU:HB3	2.19	0.42
3:c:5405:ASN:OD1	3:c:5405:ASN:C	2.62	0.42
3:c:5438:LEU:HD13	3:c:5442:LEU:CD1	2.49	0.42
22:c:6028:CLA:H62	22:c:6028:CLA:H41	1.42	0.42
29:c:6056:DGD:C2B	29:c:6056:DGD:HG12	2.40	0.42
29:c:6057:DGD:HB81	28:d:6059:MGE:C8B	2.24	0.42
4:d:5141:TYR:O	4:d:5142:ASN:C	2.61	0.42
4:d:5158:LEU:O	4:d:5162:LEU:CG	2.66	0.42
4:d:5267:LEU:C	4:d:5267:LEU:CD2	2.91	0.42
4:d:5277:THR:HG22	4:d:5278:GLY:N	2.34	0.42
24:d:6042:PQ9:H32	24:d:6042:PQ9:H361	1.77	0.42
5:e:5027:ILE:CD1	5:e:5027:ILE:N	2.82	0.42
6:f:5043:ILE:O	9:j:5036:LEU:HG	2.20	0.42
7:h:5005:THR:HB	7:h:5006:TRP:H	1.71	0.42
7:h:5028:THR:N	22:h:6017:CLA:OBD	2.52	0.42
13:o:5172:PHE:CB	13:o:5221:GLY:HA3	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:27:ARG:HG3	1:A:27:ARG:HH11	1.84	0.42
1:A:102:LEU:HD12	1:A:102:LEU:C	2.43	0.42
1:A:105:TRP:CD1	1:A:110:GLY:HA3	2.55	0.42
1:A:113:GLN:HB3	1:A:117:PHE:CE1	2.54	0.42
22:A:1003:CLA:C14	23:A:1038:PHO:C7	2.97	0.42
22:A:1007:CLA:H112	22:A:1007:CLA:H72	1.53	0.42
2:B:65:PHE:O	2:B:66:MET:C	2.63	0.42
2:B:103:LEU:CG	2:B:104:SER:N	2.82	0.42
2:B:109:LEU:HB3	25:B:1048:BCR:H23C	2.01	0.42
2:B:332:LYS:O	2:B:444:ARG:NH1	2.53	0.42
22:B:1021:CLA:C12	28:B:1060:MGE:H132	2.50	0.42
3:C:58:GLY:O	3:C:59:LEU:C	2.61	0.42
3:C:89:ILE:N	3:C:90:PRO:CD	2.80	0.42
3:C:305:THR:HG22	3:C:308:GLU:CB	2.41	0.42
3:C:315:MET:HE2	3:C:319:ILE:CG1	2.50	0.42
3:C:377:LEU:O	3:C:381:LYS:HB2	2.19	0.42
4:D:191:TRP:O	4:D:193:LEU:N	2.52	0.42
4:D:260:ALA:HA	24:D:1042:PQ9:H91	2.02	0.42
7:H:3:ARG:HE	7:H:3:ARG:HB3	1.54	0.42
7:H:17:GLU:O	7:H:17:GLU:HG2	2.19	0.42
13:O:79:LYS:HB2	13:O:91:PHE:CE2	2.53	0.42
13:O:254:HIS:H	13:O:254:HIS:CD2	2.38	0.42
25:T:6046:BCR:C23	25:T:6046:BCR:C40	2.92	0.42
15:U:31:ASN:ND2	15:U:31:ASN:C	2.76	0.42
15:U:36:ILE:HG22	15:U:42:TYR:HB2	2.02	0.42
18:Y:30:ILE:O	18:Y:30:ILE:CG1	2.67	0.42
1:a:5091:LEU:C	1:a:5092:HIS:O	2.58	0.42
1:a:5095:PRO:HD2	1:a:5098:GLU:HB2	2.00	0.42
1:a:5309:ALA:C	1:a:5311:GLY:N	2.77	0.42
22:a:6006:CLA:C9	22:d:6004:CLA:H152	2.46	0.42
23:a:6038:PHO:H91	22:d:6005:CLA:C17	2.49	0.42
26:a:6063:LHG:HC11	3:c:5447:ARG:HH12	1.85	0.42
2:b:5052:LEU:CD1	2:b:5339:ALA:HA	2.49	0.42
2:b:5099:ALA:O	2:b:5101:ILE:N	2.53	0.42
2:b:5311:PHE:O	2:b:5311:PHE:HD2	2.03	0.42
2:b:5389:LYS:HB3	2:b:5390:TYR:CE1	2.54	0.42
22:b:6012:CLA:HAA1	22:b:6012:CLA:CBD	2.49	0.42
3:c:5089:ILE:O	3:c:5111:PHE:HE2	2.00	0.42
3:c:5397:THR:O	3:c:5399:ALA:N	2.52	0.42
22:c:6027:CLA:H3A	22:c:6027:CLA:CGA	2.50	0.42
22:c:6029:CLA:HMA3	22:c:6029:CLA:HAA2	1.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:5034:GLY:CA	6:f:5032:PHE:CD1	3.03	0.42
6:f:5022:ALA:O	6:f:5023:VAL:C	2.62	0.42
6:f:5034:LEU:HD13	9:j:5028:PHE:HZ	1.85	0.42
25:k:6051:BCR:H371	25:k:6051:BCR:H24C	1.64	0.42
11:l:5024:ILE:HD11	12:m:5018:PRO:HB2	2.01	0.42
18:y:5030:ILE:O	18:y:5030:ILE:CG1	2.67	0.42
1:A:27:ARG:NH1	1:A:28:LEU:HD12	2.34	0.42
1:A:41:LEU:HD22	1:A:41:LEU:H	1.83	0.42
1:A:180:PHE:O	1:A:184:ILE:CD1	2.68	0.42
2:B:65:PHE:CE1	22:B:1012:CLA:HED2	2.54	0.42
2:B:230:ARG:O	2:B:231:MET:C	2.63	0.42
2:B:311:PHE:HD2	2:B:311:PHE:O	2.03	0.42
2:B:370:LEU:N	2:B:370:LEU:HD12	2.35	0.42
22:B:1011:CLA:H2	22:B:1013:CLA:H91	1.93	0.42
22:B:1011:CLA:ND	22:B:1013:CLA:H51	2.35	0.42
3:C:62:PHE:HZ	10:K:28:ILE:HB	1.83	0.42
3:C:166:ILE:CD1	3:C:248:GLY:HA3	2.44	0.42
4:D:93:TRP:HA	4:D:99:GLY:H	1.84	0.42
5:E:18:ARG:HG2	5:E:22:ILE:HD11	2.01	0.42
5:E:27:ILE:CD1	5:E:27:ILE:N	2.82	0.42
9:J:18:GLY:HA3	25:K:1051:BCR:H371	2.00	0.42
13:O:37:VAL:O	13:O:37:VAL:HG13	2.19	0.42
13:O:80:GLU:O	13:O:82:PRO:N	2.53	0.42
13:O:134:VAL:HG23	13:O:142:ILE:HG22	2.02	0.42
15:U:64:ILE:H	15:U:67:LEU:HD12	1.84	0.42
1:a:5027:ARG:NH1	1:a:5028:LEU:HD12	2.34	0.42
1:a:5063:ILE:HG12	1:a:5065:GLU:N	2.34	0.42
1:a:5093:PHE:C	1:a:5095:PRO:HD3	2.45	0.42
1:a:5104:GLU:CD	13:o:5099:ARG:HB3	2.44	0.42
1:a:5105:TRP:CD1	1:a:5110:GLY:HA3	2.55	0.42
1:a:5114:LEU:C	1:a:5114:LEU:HD12	2.44	0.42
1:a:5121:LEU:O	1:a:5124:SER:N	2.51	0.42
1:a:5206:PHE:CE2	22:d:6004:CLA:O1A	2.73	0.42
1:a:5279:ARG:HD3	4:d:5208:ALA:C	2.45	0.42
26:a:6063:LHG:C32	22:k:6034:CLA:C15	2.87	0.42
2:b:5024:LEU:HA	22:b:6023:CLA:HED3	2.01	0.42
2:b:5065:PHE:C	2:b:5067:ALA:H	2.28	0.42
2:b:5065:PHE:CE1	22:b:6012:CLA:HED2	2.54	0.42
2:b:5135:LEU:N	2:b:5135:LEU:CD1	2.80	0.42
2:b:5139:PHE:CZ	22:h:6017:CLA:CMB	3.02	0.42
2:b:5248:ALA:CA	22:b:6011:CLA:H51	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5332:LYS:O	2:b:5444:ARG:NH1	2.53	0.42
2:b:5346:PHE:CD2	2:b:5346:PHE:N	2.87	0.42
2:b:5447:PRO:O	2:b:5448:ARG:C	2.61	0.42
22:b:6021:CLA:C12	28:b:6060:MGE:H132	2.50	0.42
3:c:5042:LEU:HD23	3:c:5048:LYS:HG2	1.94	0.42
3:c:5163:PHE:O	3:c:5166:ILE:HG12	2.19	0.42
3:c:5296:VAL:HG23	3:c:5297:TYR:CE1	2.51	0.42
3:c:5321:ASP:OD2	3:c:5321:ASP:N	2.52	0.42
3:c:5377:LEU:O	3:c:5381:LYS:HB2	2.19	0.42
22:c:6032:CLA:CAB	22:k:6034:CLA:CMC	2.53	0.42
4:d:5069:GLU:HB3	5:e:5055:TYR:OH	2.19	0.42
4:d:5199:MET:HG2	24:d:6042:PQ9:H352	2.02	0.42
4:d:5238:THR:HG22	4:d:5239:GLN:HG2	2.01	0.42
22:d:6005:CLA:HMA2	24:d:6042:PQ9:H443	2.01	0.42
6:f:5015:ILE:HD12	31:f:6040:HEM:HMD1	2.02	0.42
11:l:5036:PHE:CD1	12:m:5007:GLY:HA3	2.55	0.42
13:o:5045:CYS:N	13:o:5072:GLN:NE2	2.61	0.42
13:o:5059:ASP:CG	13:o:5061:SER:HB2	2.43	0.42
13:o:5195:ASP:OD1	13:o:5195:ASP:C	2.62	0.42
15:u:5009:LEU:H	15:u:5009:LEU:HG	1.47	0.42
15:u:5026:ASP:HB3	15:u:5030:THR:H	1.84	0.42
20:z:5045:GLY:O	20:z:5049:ALA:CB	2.67	0.42
1:A:105:TRP:CH2	1:A:111:PRO:HA	2.55	0.42
1:A:271:LEU:O	1:A:275:LEU:HG	2.19	0.42
1:A:285:PHE:O	1:A:289:GLY:N	2.49	0.42
2:B:21:ALA:HB2	2:B:114:HIS:HB2	2.02	0.42
2:B:248:ALA:CA	22:B:1011:CLA:H51	2.50	0.42
2:B:392:PHE:HE2	2:B:417:VAL:HG12	1.85	0.42
3:C:64:ALA:O	3:C:68:THR:CB	2.68	0.42
3:C:119:LEU:HD11	25:C:1052:BCR:C34	2.48	0.42
3:C:377:LEU:C	3:C:377:LEU:CD1	2.92	0.42
22:C:1037:CLA:H121	22:C:1037:CLA:H162	1.26	0.42
7:H:28:THR:N	22:H:1017:CLA:OBD	2.52	0.42
8:I:14:PHE:CE1	8:I:18:LEU:HD12	2.43	0.42
11:L:24:ILE:HD11	12:M:18:PRO:HB2	2.01	0.42
12:M:32:GLN:HE21	12:M:32:GLN:CA	2.25	0.42
13:O:104:LEU:CD1	13:O:107:ILE:HD11	2.49	0.42
13:O:234:THR:HB	13:O:236:GLU:HG3	2.01	0.42
15:U:11:ASN:OD1	15:U:11:ASN:C	2.63	0.42
1:a:5038:ILE:HB	1:a:5039:PRO:HD3	2.02	0.42
2:b:5006:TYR:OH	28:b:6060:MGE:H3D	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5021:ALA:HB2	2:b:5114:HIS:HB2	2.02	0.42
2:b:5150:CYS:N	22:b:6011:CLA:HBC2	2.33	0.42
2:b:5359:MET:HA	2:b:5360:PRO:HD2	1.85	0.42
2:b:5429:ILE:HG22	2:b:5430:PHE:N	2.34	0.42
22:b:6010:CLA:C3D	22:b:6011:CLA:CMB	2.98	0.42
28:b:6060:MGE:H5B2	4:d:5276:VAL:CG2	2.50	0.42
3:c:5054:VAL:HG12	3:c:5125:LEU:O	2.19	0.42
3:c:5062:PHE:CE2	10:k:5029:PRO:HG3	2.55	0.42
3:c:5171:GLY:HA2	3:c:5174:LEU:H	1.85	0.42
3:c:5332:GLN:NE2	13:o:5175:PRO:HG3	2.34	0.42
4:d:5161:PRO:HG3	4:d:5170:ALA:HA	2.02	0.42
4:d:5166:SER:C	4:d:5168:PHE:N	2.75	0.42
28:d:6062:MGE:H1D	28:d:6062:MGE:H2G	1.40	0.42
22:k:6034:CLA:CGA	22:k:6034:CLA:C1A	2.97	0.42
13:o:5134:VAL:HG23	13:o:5142:ILE:HG22	2.02	0.42
15:u:5036:ILE:HG22	15:u:5042:TYR:HB2	2.02	0.42
18:y:5021:GLN:O	18:y:5025:ILE:CG2	2.65	0.42
1:A:37:MET:SD	1:A:126:TYR:CB	3.08	0.42
1:A:104:GLU:CD	13:O:99:ARG:HB3	2.44	0.42
1:A:161:TYR:N	1:A:162:PRO:CD	2.83	0.42
1:A:206:PHE:CE2	22:D:1004:CLA:O1A	2.73	0.42
1:A:304:HIS:HE1	16:V:163:TYR:O	2.03	0.42
1:A:328:MET:HE1	4:D:183:LEU:HD13	2.02	0.42
22:A:1006:CLA:HAA1	22:A:1006:CLA:CBD	2.49	0.42
23:A:1038:PHO:OBD	23:A:1038:PHO:O2D	2.38	0.42
26:A:1063:LHG:HC11	3:C:447:ARG:HH12	1.85	0.42
2:B:188:ASP:CB	7:H:58:VAL:HG22	2.50	0.42
2:B:313:ASP:OD2	2:B:358:ARG:NH2	2.50	0.42
2:B:326:ARG:NH2	2:B:442:ILE:CG2	2.83	0.42
3:C:45:LEU:HA	3:C:45:LEU:HD23	1.75	0.42
3:C:146:PHE:O	3:C:147:PHE:HB2	2.19	0.42
3:C:342:MET:HG2	3:C:343:ARG:N	2.34	0.42
4:D:186:GLN:CD	4:D:322:ASN:HD21	2.28	0.42
5:E:48:GLY:O	5:E:49:THR:C	2.61	0.42
5:E:74:GLN:O	5:E:77:GLU:HB2	2.20	0.42
7:H:28:THR:O	7:H:31:MET:N	2.44	0.42
12:M:8:PHE:O	12:M:12:ALA:CB	2.67	0.42
14:T:28:ARG:HA	14:T:28:ARG:HE	1.83	0.42
15:U:26:ASP:HB3	15:U:30:THR:H	1.84	0.42
16:V:47:LEU:CG	16:V:48:THR:H	2.33	0.42
16:V:105:PRO:HG2	16:V:115:ALA:HA	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Y:30:ILE:O	18:Y:30:ILE:HG12	2.20	0.42
18:Y:43:ARG:CD	20:Z:31:GLN:HE21	2.28	0.42
1:a:5078:ILE:HD13	11:l:5033:SER:CB	2.50	0.42
1:a:5096:ILE:O	1:a:5096:ILE:HG22	2.20	0.42
1:a:5140:ARG:HB2	4:d:5220:ASN:HA	2.01	0.42
1:a:5244:GLU:HA	4:d:5264:LYS:HZ1	1.84	0.42
1:a:5280:VAL:CG2	4:d:5212:ALA:HB1	2.49	0.42
1:a:5285:PHE:O	1:a:5289:GLY:N	2.49	0.42
2:b:5188:ASP:CB	7:h:5058:VAL:HG22	2.50	0.42
2:b:5314:TYR:O	2:b:5315:ILE:C	2.62	0.42
2:b:5486:LEU:O	2:b:5487:SER:HB2	2.18	0.42
22:b:6016:CLA:HAA1	22:b:6016:CLA:CBD	2.49	0.42
22:b:6023:CLA:H92	22:b:6023:CLA:H62	1.85	0.42
3:c:5046:SER:O	3:c:5047:GLY:C	2.59	0.42
3:c:5422:PRO:O	3:c:5426:LEU:HD13	2.20	0.42
22:c:6026:CLA:C3	22:c:6026:CLA:CGA	2.96	0.42
4:d:5111:TRP:C	4:d:5113:PHE:N	2.77	0.42
4:d:5186:GLN:CD	4:d:5322:ASN:HD21	2.28	0.42
12:m:5009:ILE:HD12	12:m:5009:ILE:N	2.32	0.42
12:m:5028:GLN:CD	12:m:5028:GLN:C	2.88	0.42
13:o:5036:ILE:O	13:o:5036:ILE:CG2	2.66	0.42
16:v:5131:ARG:C	16:v:5133:LEU:H	2.27	0.42
20:z:5044:SER:O	20:z:5048:ILE:CD1	2.66	0.42
1:A:38:ILE:CB	1:A:39:PRO:HD3	2.50	0.42
1:A:129:ARG:NH1	4:D:256:ILE:HD12	2.32	0.42
1:A:131:TRP:CE3	1:A:132:GLU:N	2.87	0.42
1:A:142:TRP:HE1	4:D:219:GLU:HB3	1.84	0.42
22:A:1003:CLA:HAB	22:D:1004:CLA:C4B	2.49	0.42
23:A:1038:PHO:H91	22:D:1005:CLA:C17	2.49	0.42
2:B:49:ASP:HA	13:o:5083:LYS:HE3	2.01	0.42
2:B:150:CYS:N	22:B:1011:CLA:HBC2	2.34	0.42
2:B:228:ALA:C	2:B:230:ARG:H	2.27	0.42
2:B:307:GLU:OE2	13:o:5085:LYS:CB	2.64	0.42
2:B:486:LEU:O	2:B:487:SER:HB2	2.19	0.42
22:B:1010:CLA:H61	22:B:1010:CLA:H41	1.84	0.42
22:B:1020:CLA:HMC1	22:B:1020:CLA:HBC2	2.02	0.42
3:C:130:VAL:O	3:C:134:ILE:CD1	2.68	0.42
3:C:157:MET:HE2	3:C:271:TYR:CE2	2.55	0.42
3:C:466:VAL:C	3:C:468:SER:N	2.77	0.42
22:C:1033:CLA:H202	22:C:1033:CLA:H162	1.78	0.42
10:K:35:LEU:O	10:K:37:PHE:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M:18:PRO:CG	12:M:19:SER:N	2.83	0.42
15:U:28:ASN:ND2	15:U:54:PRO:HB2	2.24	0.42
17:X:13:THR:O	17:X:15:SER:N	2.53	0.42
20:Z:5:PHE:O	20:Z:8:ALA:HB3	2.19	0.42
1:a:5020:TRP:O	1:a:5021:VAL:C	2.59	0.42
1:a:5103:ASP:HA	1:a:5106:LEU:CD1	2.39	0.42
1:a:5185:VAL:HG12	1:a:5186:PHE:N	2.34	0.42
1:a:5271:LEU:O	1:a:5275:LEU:HG	2.19	0.42
1:a:5271:LEU:CG	1:a:5272:HIS:N	2.83	0.42
1:a:5340:PRO:CD	15:u:5103:TYR:CE2	3.03	0.42
2:b:5172:TYR:CD2	2:b:5173:GLY:N	2.88	0.42
2:b:5247:PHE:O	2:b:5247:PHE:CD1	2.72	0.42
2:b:5385:ARG:HE	2:b:5385:ARG:HB2	1.14	0.42
2:b:5472:ARG:CD	22:b:6019:CLA:HED3	2.50	0.42
22:b:6011:CLA:ND	22:b:6013:CLA:H51	2.35	0.42
22:b:6012:CLA:C2C	22:b:6021:CLA:CBB	2.98	0.42
22:b:6012:CLA:H61	22:b:6012:CLA:H41	1.88	0.42
3:c:5187:ASP:C	3:c:5187:ASP:OD2	2.62	0.42
3:c:5451:ALA:HA	3:c:5456:GLU:CG	2.48	0.42
22:c:6029:CLA:H92	22:c:6029:CLA:H62	1.80	0.42
4:d:5120:PHE:CD1	4:d:5123:ILE:HD12	2.55	0.42
5:e:5022:ILE:O	5:e:5025:ILE:HG13	2.18	0.42
12:m:5018:PRO:CG	12:m:5019:SER:N	2.83	0.42
13:o:5156:GLN:HA	13:o:5157:PRO:HD3	1.86	0.42
13:o:5162:ILE:HD13	13:o:5269:ILE:HD12	2.01	0.42
13:o:5180:ALA:HB2	15:u:5090:ALA:O	2.20	0.42
13:o:5254:HIS:H	13:o:5254:HIS:CD2	2.38	0.42
15:u:5078:ASN:C	15:u:5080:GLU:N	2.78	0.42
16:v:5035:THR:HG23	16:v:5046:THR:H	1.85	0.42
16:v:5101:TYR:CE2	31:v:6041:HEM:HAA1	2.54	0.42
16:v:5106:THR:HA	16:v:5114:ILE:HG22	2.00	0.42
1:A:37:MET:SD	1:A:126:TYR:HA	2.59	0.42
1:A:81:ALA:CA	1:A:175:GLY:HA3	2.49	0.42
1:A:99:ALA:O	1:A:100:ALA:O	2.38	0.42
1:A:134:SER:HA	1:A:139:MET:HG2	2.01	0.42
1:A:147:TYR:CA	23:A:1038:PHO:HMD2	2.50	0.42
1:A:262:TYR:C	1:A:264:SER:H	2.27	0.42
1:A:310:LYS:HG2	16:V:151:ILE:CG2	2.46	0.42
1:A:318:ALA:HA	1:A:321:ILE:CD1	2.50	0.42
1:A:330:VAL:HG21	4:D:328:TRP:CZ2	2.55	0.42
2:B:49:ASP:HA	2:B:50:PRO:HD3	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:99:ALA:O	2:B:101:ILE:N	2.53	0.42
2:B:215:PHE:CE2	2:B:219:VAL:HG21	2.55	0.42
2:B:463:PHE:CD2	29:B:1058:DGD:HAV1	2.54	0.42
22:B:1011:CLA:CAD	22:B:1013:CLA:H11	2.48	0.42
22:B:1015:CLA:HAA1	22:B:1015:CLA:CBD	2.50	0.42
3:C:276:LEU:HD22	3:C:441:HIS:N	2.34	0.42
22:C:1032:CLA:H18	29:C:1056:DGD:HBH1	2.02	0.42
4:D:69:GLU:HB3	5:E:55:TYR:OH	2.19	0.42
4:D:87:HIS:O	4:D:88:SER:C	2.63	0.42
4:D:97:ALA:HB1	4:D:104:TRP:HB2	2.02	0.42
4:D:238:THR:HG22	4:D:239:GLN:HG2	2.01	0.42
7:H:41:PHE:CD1	25:H:1049:BCR:H362	2.49	0.42
11:L:19:LEU:O	11:L:20:GLY:C	2.61	0.42
11:L:24:ILE:C	11:L:26:VAL:N	2.76	0.42
13:O:76:PHE:CD1	13:O:261:ILE:HD12	2.54	0.42
16:V:81:ARG:O	16:V:82:THR:C	2.62	0.42
16:V:94:ASN:O	16:V:95:ILE:C	2.63	0.42
16:V:156:TRP:HA	16:V:156:TRP:CE3	2.55	0.42
18:Y:35:ILE:CD1	18:Y:36:ILE:HD12	2.50	0.42
1:a:5047:CYS:HA	25:a:6044:BCR:H372	2.02	0.42
1:a:5219:VAL:HG21	4:d:5268:HIS:CG	2.54	0.42
1:a:5295:PHE:HD2	3:c:5291:TRP:CE2	2.37	0.42
1:a:5309:ALA:HB3	16:v:5028:GLU:CB	2.47	0.42
1:a:5310:LYS:N	16:v:5028:GLU:HB2	2.34	0.42
1:a:5330:VAL:HG21	4:d:5328:TRP:CZ2	2.55	0.42
2:b:5013:ILE:HD12	2:b:5234:ILE:HG23	2.01	0.42
2:b:5067:ALA:CB	2:b:5267:LEU:HD21	2.50	0.42
2:b:5115:TRP:O	2:b:5116:VAL:C	2.63	0.42
2:b:5188:ASP:OD1	7:h:5058:VAL:HA	2.19	0.42
2:b:5246:PHE:HB3	2:b:5462:PHE:HB3	2.01	0.42
2:b:5297:THR:O	2:b:5298:LEU:C	2.60	0.42
22:b:6022:CLA:OBD	11:l:5010:VAL:HG21	2.20	0.42
3:c:5376:ASP:OD1	3:c:5379:LYS:HG3	2.20	0.42
22:c:6025:CLA:CMB	25:c:6054:BCR:C24	2.98	0.42
29:c:6057:DGD:HAS2	28:d:6059:MGE:CDB	2.47	0.42
4:d:5027:PHE:HD1	6:f:5019:ARG:HG3	1.85	0.42
4:d:5054:PHE:CD1	5:e:5047:PHE:HE1	2.38	0.42
4:d:5249:ALA:O	4:d:5252:PHE:N	2.41	0.42
4:d:5321:LEU:O	4:d:5322:ASN:C	2.63	0.42
22:d:6004:CLA:HHC	22:d:6004:CLA:CBB	2.21	0.42
5:e:5077:GLU:O	5:e:5080:LEU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l:5019:LEU:O	11:l:5020:GLY:C	2.61	0.42
13:o:5052:ALA:CB	13:o:5229:LYS:HA	2.50	0.42
13:o:5080:GLU:O	13:o:5082:PRO:N	2.53	0.42
13:o:5187:GLY:O	13:o:5194:TYR:N	2.51	0.42
16:v:5094:ASN:O	16:v:5095:ILE:C	2.63	0.42
16:v:5107:THR:C	16:v:5109:ASP:H	2.26	0.42
18:y:5030:ILE:O	18:y:5030:ILE:HG12	2.20	0.42
1:A:114:LEU:C	1:A:114:LEU:HD12	2.44	0.41
1:A:193:LEU:O	1:A:193:LEU:CD2	2.68	0.41
1:A:252:HIS:ND1	1:A:266:ASN:HB3	2.35	0.41
1:A:310:LYS:N	16:V:28:GLU:HB2	2.34	0.41
1:A:340:PRO:CD	15:U:103:TYR:CE2	3.03	0.41
2:B:24:LEU:CG	2:B:111:ALA:HA	2.50	0.41
2:B:65:PHE:C	2:B:67:ALA:H	2.28	0.41
2:B:238:LEU:N	22:B:1020:CLA:CMD	2.82	0.41
2:B:394:GLN:HB3	15:U:17:LEU:HD22	2.01	0.41
22:B:1016:CLA:C16	22:D:1008:CLA:HMA3	2.38	0.41
22:B:1016:CLA:C19	22:H:1017:CLA:H191	2.16	0.41
3:C:79:LYS:O	3:C:84:GLN:NE2	2.53	0.41
3:C:154:LYS:HE3	3:C:261:ARG:HE	1.83	0.41
3:C:224:ILE:HG22	3:C:289:PHE:CE1	2.55	0.41
3:C:425:TRP:CD1	22:C:1028:CLA:HMA2	2.55	0.41
3:C:451:ALA:O	3:C:454:GLY:N	2.53	0.41
4:D:54:PHE:CD1	5:E:47:PHE:HE1	2.38	0.41
4:D:111:TRP:C	4:D:113:PHE:N	2.77	0.41
4:D:197:HIS:ND1	4:D:197:HIS:C	2.76	0.41
4:D:267:LEU:C	4:D:269:PHE:N	2.78	0.41
5:E:34:GLY:O	5:E:37:PHE:HB3	2.20	0.41
10:K:17:ILE:H	10:K:17:ILE:HG13	1.47	0.41
25:K:1051:BCR:H371	25:K:1051:BCR:H24C	1.64	0.41
12:M:31:SER:O	12:m:5032:GLN:NE2	2.53	0.41
13:O:156:GLN:HA	13:O:157:PRO:HD3	1.86	0.41
13:O:175:PRO:HG2	13:O:176:SER:N	2.34	0.41
13:O:180:ALA:HB2	15:U:90:ALA:O	2.20	0.41
13:O:192:SER:OG	13:O:193:GLY:N	2.53	0.41
15:U:45:LEU:HD12	15:U:45:LEU:HA	1.95	0.41
16:V:32:GLU:C	16:V:34:LEU:N	2.76	0.41
16:V:148:GLU:O	16:V:151:ILE:CD1	2.68	0.41
20:Z:33:TRP:O	20:Z:37:LYS:HB3	2.19	0.41
1:a:5060:ILE:O	1:a:5061:ASP:C	2.63	0.41
1:a:5137:LEU:HB3	1:a:5139:MET:HE3	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5328:MET:HE1	4:d:5183:LEU:HD13	2.02	0.41
26:a:6063:LHG:O9	26:a:6063:LHG:C6	2.52	0.41
2:b:5020:ILE:O	2:b:5024:LEU:CB	2.68	0.41
2:b:5056:TRP:HZ3	2:b:5317:ASN:OD1	2.03	0.41
2:b:5215:PHE:CE2	2:b:5219:VAL:HG21	2.55	0.41
2:b:5460:LEU:O	4:d:5280:TRP:CZ3	2.70	0.41
22:b:6020:CLA:HMC1	22:b:6020:CLA:HBC2	2.02	0.41
22:b:6022:CLA:CGD	22:b:6022:CLA:CAA	2.65	0.41
3:c:5056:HIS:HD2	3:c:5057:ALA:CA	2.33	0.41
3:c:5130:VAL:O	3:c:5134:ILE:CD1	2.68	0.41
3:c:5168:LEU:HB3	22:c:6025:CLA:HMC2	2.02	0.41
3:c:5367:GLU:O	3:c:5368:PRO:C	2.61	0.41
3:c:5435:PHE:O	3:c:5436:PHE:C	2.63	0.41
3:c:5461:ARG:HE	4:d:5223:PHE:HD2	1.64	0.41
29:c:6056:DGD:HB61	29:c:6056:DGD:HB91	1.80	0.41
4:d:5053:THR:HG22	4:d:5067:TYR:HD2	1.85	0.41
4:d:5145:ALA:HB2	4:d:5272:LEU:HD12	2.00	0.41
25:d:6050:BCR:C16	25:d:6050:BCR:H351	2.48	0.41
5:e:5013:ILE:HG13	5:e:5013:ILE:O	2.18	0.41
6:f:5043:ILE:HG13	6:f:5043:ILE:H	1.54	0.41
7:h:5035:MET:O	7:h:5038:PHE:HB3	2.20	0.41
13:o:5076:PHE:CD1	13:o:5261:ILE:HD12	2.54	0.41
13:o:5092:VAL:CG1	13:o:5093:PRO:CD	2.97	0.41
13:o:5105:ASP:OD1	13:o:5105:ASP:C	2.63	0.41
15:u:5064:ILE:H	15:u:5067:LEU:HD12	1.84	0.41
1:A:187:GLN:HG2	1:A:328:MET:HE1	2.02	0.41
1:A:269:ARG:NE	4:D:222:LEU:HD21	2.35	0.41
2:B:115:TRP:O	2:B:116:VAL:C	2.63	0.41
2:B:158:LEU:C	2:B:160:GLY:N	2.78	0.41
2:B:246:PHE:HB3	2:B:462:PHE:HB3	2.01	0.41
2:B:385:ARG:HE	2:B:385:ARG:HB2	1.14	0.41
2:B:424:ALA:C	2:B:426:PHE:N	2.77	0.41
3:C:56:HIS:HD2	3:C:57:ALA:CA	2.33	0.41
3:C:157:MET:HB3	22:C:1031:CLA:CBC	2.49	0.41
3:C:165:LEU:HD21	22:C:1030:CLA:CBB	2.50	0.41
3:C:171:GLY:HA2	3:C:174:LEU:H	1.85	0.41
3:C:239:TRP:O	3:C:243:ILE:CG1	2.67	0.41
3:C:309:ALA:O	3:C:311:GLN:N	2.53	0.41
3:C:337:LEU:HA	3:C:337:LEU:HD23	1.80	0.41
3:C:343:ARG:NH2	13:O:103:SER:O	2.47	0.41
3:C:348:GLU:CB	13:O:42:ALA:CB	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:C:1035:CLA:H93	22:C:1035:CLA:H2	2.02	0.41
4:D:21:TRP:CE3	4:D:22:LEU:HB3	2.55	0.41
4:D:46:GLY:HA2	25:D:1050:BCR:H10C	2.02	0.41
4:D:122:LEU:HD22	4:D:122:LEU:N	2.34	0.41
7:H:31:MET:SD	22:H:1017:CLA:CAA	3.04	0.41
7:H:35:MET:O	7:H:38:PHE:HB3	2.20	0.41
10:K:35:LEU:HD22	25:K:1051:BCR:H352	2.02	0.41
13:O:231:ASP:CB	13:O:234:THR:OG1	2.65	0.41
25:T:6046:BCR:H371	25:T:6046:BCR:H24C	1.61	0.41
25:T:6048:BCR:C30	25:T:6048:BCR:C37	2.61	0.41
16:V:101:TYR:O	16:V:104:ASN:C	2.63	0.41
16:V:128:PRO:O	16:V:129:LYS:C	2.63	0.41
16:V:131:ARG:C	16:V:133:LEU:H	2.27	0.41
16:V:156:TRP:HA	16:V:156:TRP:HE3	1.85	0.41
1:a:5038:ILE:CB	1:a:5039:PRO:HD3	2.50	0.41
1:a:5041:LEU:HD22	1:a:5041:LEU:H	1.83	0.41
1:a:5258:LEU:C	1:a:5259:ILE:CG1	2.92	0.41
1:a:5269:ARG:NE	4:d:5222:LEU:HD21	2.35	0.41
1:a:5309:ALA:HB3	16:v:5028:GLU:CG	2.50	0.41
1:a:5323:ARG:CG	4:d:5329:MET:HA	2.50	0.41
22:a:6006:CLA:H162	22:a:6006:CLA:H192	1.79	0.41
2:b:5041:GLU:HB3	2:b:5060:MET:SD	2.60	0.41
2:b:5098:LEU:O	2:b:5102:VAL:HG22	2.20	0.41
2:b:5235:GLU:CG	2:b:5473:THR:HA	2.49	0.41
2:b:5373:LYS:H	2:b:5373:LYS:HG2	1.32	0.41
2:b:5392:PHE:CE2	2:b:5418:LYS:HA	2.55	0.41
22:b:6015:CLA:H161	22:b:6015:CLA:H141	1.77	0.41
3:c:5157:MET:HB3	22:c:6031:CLA:CBC	2.50	0.41
3:c:5160:ILE:C	3:c:5162:GLY:N	2.76	0.41
3:c:5165:LEU:HD21	22:c:6030:CLA:CBB	2.50	0.41
3:c:5239:TRP:O	3:c:5243:ILE:CG1	2.67	0.41
3:c:5318:LEU:HD23	3:c:5318:LEU:C	2.45	0.41
4:d:5282:SER:HB2	22:d:6004:CLA:HED3	2.01	0.41
4:d:5315:TYR:CZ	4:d:5319:LEU:HD12	2.55	0.41
22:d:6005:CLA:CMA	24:d:6042:PQ9:H443	2.50	0.41
5:e:5034:GLY:O	5:e:5037:PHE:HB3	2.20	0.41
6:f:5041:GLN:HG3	9:j:5027:LEU:HG	2.01	0.41
13:o:5185:PRO:O	13:o:5186:LYS:CB	2.68	0.41
15:u:5011:ASN:OD1	15:u:5011:ASN:C	2.63	0.41
16:v:5101:TYR:O	16:v:5102:MET:C	2.63	0.41
16:v:5101:TYR:O	16:v:5104:ASN:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:x:5013:THR:O	17:x:5015:SER:N	2.53	0.41
1:A:215:HIS:HD2	1:A:275:LEU:CD1	2.33	0.41
1:A:278:TRP:CE3	1:A:278:TRP:CA	2.94	0.41
2:B:56:TRP:HZ3	2:B:317:ASN:OD1	2.03	0.41
2:B:407:ASN:C	2:B:409:GLN:H	2.29	0.41
2:B:445:THR:OG1	2:B:449:GLY:HA3	2.20	0.41
22:B:1012:CLA:C2C	22:B:1021:CLA:CBB	2.98	0.41
22:B:1021:CLA:HED2	22:B:1021:CLA:NA	2.20	0.41
28:B:1060:MGE:H5B2	4:D:276:VAL:CG2	2.50	0.41
3:C:274:TYR:CE2	22:C:1031:CLA:HMC1	2.54	0.41
22:C:1025:CLA:CMB	25:C:1054:BCR:C24	2.98	0.41
22:C:1026:CLA:HAA1	22:C:1026:CLA:CBD	2.50	0.41
22:C:1028:CLA:H161	22:C:1028:CLA:H202	1.61	0.41
4:D:236:ASN:OD1	4:D:239:GLN:O	2.37	0.41
4:D:292:ASN:O	4:D:294:ARG:HG2	2.20	0.41
4:D:346:LEU:HA	4:D:347:PRO:HD2	1.86	0.41
24:D:1042:PQ9:H201	24:D:1042:PQ9:H162	1.84	0.41
7:H:27:THR:C	22:H:1017:CLA:OBD	2.63	0.41
7:H:40:VAL:HG12	7:H:44:ILE:HG12	2.03	0.41
8:I:3:THR:O	8:I:6:ILE:HG13	2.20	0.41
12:M:20:VAL:O	12:M:24:ILE:HG13	2.20	0.41
12:M:28:GLN:CD	12:M:28:GLN:C	2.88	0.41
13:O:105:ASP:OD1	13:O:105:ASP:C	2.63	0.41
25:T:6046:BCR:C35	25:b:6047:BCR:H23C	2.50	0.41
15:U:78:ASN:C	15:U:80:GLU:N	2.78	0.41
18:Y:43:ARG:CZ	20:Z:29:SER:HB3	2.49	0.41
1:a:5062:GLY:CA	1:a:5087:ASN:HB2	2.46	0.41
1:a:5134:SER:HA	1:a:5139:MET:HG2	2.01	0.41
1:a:5135:TYR:HE1	3:c:5449:ARG:O	2.03	0.41
24:a:6043:PQ9:H451	28:d:6059:MGE:CBA	2.49	0.41
2:b:5006:TYR:H	2:b:5006:TYR:HD2	1.57	0.41
2:b:5158:LEU:C	2:b:5160:GLY:H	2.28	0.41
2:b:5158:LEU:C	2:b:5160:GLY:N	2.78	0.41
2:b:5191:ASN:HD21	7:h:5060:VAL:CA	2.19	0.41
2:b:5326:ARG:NH2	2:b:5442:ILE:CG2	2.83	0.41
2:b:5341:LYS:O	2:b:5404:GLY:HA3	2.20	0.41
2:b:5370:LEU:HD12	2:b:5370:LEU:N	2.35	0.41
2:b:5445:THR:OG1	2:b:5449:GLY:HA3	2.20	0.41
22:b:6011:CLA:H42	22:b:6011:CLA:O2A	2.19	0.41
3:c:5309:ALA:C	3:c:5311:GLN:N	2.78	0.41
3:c:5309:ALA:O	3:c:5311:GLN:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6031:CLA:OBD	22:c:6033:CLA:C15	2.68	0.41
22:c:6031:CLA:H121	22:c:6031:CLA:H161	1.62	0.41
29:c:6056:DGD:HB32	29:c:6057:DGD:HA31	2.01	0.41
4:d:5067:TYR:CE1	4:d:5076:VAL:HG11	2.55	0.41
4:d:5210:LEU:HD12	4:d:5210:LEU:HA	1.64	0.41
5:e:5023:HIS:O	5:e:5027:ILE:HD13	2.21	0.41
5:e:5074:GLN:O	5:e:5077:GLU:HB2	2.20	0.41
13:o:5192:SER:OG	13:o:5193:GLY:N	2.53	0.41
13:o:5197:ALA:O	13:o:5199:ALA:N	2.53	0.41
16:v:5156:TRP:HA	16:v:5156:TRP:CE3	2.55	0.41
1:A:107:TYR:O	1:A:109:GLY:N	2.53	0.41
1:A:142:TRP:CZ2	1:A:273:PHE:HD1	2.38	0.41
1:A:183:MET:CB	22:A:1003:CLA:HBC3	2.35	0.41
1:A:309:ALA:C	1:A:311:GLY:N	2.77	0.41
2:B:36:SER:O	2:B:37:MET:C	2.63	0.41
2:B:90:PHE:CD2	2:B:90:PHE:O	2.74	0.41
2:B:191:ASN:O	2:B:194:ASN:N	2.52	0.41
2:B:246:PHE:C	2:B:246:PHE:HD1	2.28	0.41
2:B:280:PHE:O	2:B:284:ILE:CG1	2.67	0.41
2:B:326:ARG:HG2	4:D:297:ASP:OD2	2.20	0.41
22:B:1016:CLA:H112	22:B:1016:CLA:H142	1.63	0.41
25:B:1047:BCR:H23C	25:t:1046:BCR:C35	2.50	0.41
3:C:187:ASP:C	3:C:187:ASP:OD2	2.62	0.41
3:C:343:ARG:HH11	3:C:348:GLU:CG	2.24	0.41
3:C:422:PRO:O	3:C:426:LEU:HD13	2.20	0.41
3:C:432:VAL:HG13	3:C:433:LEU:N	2.35	0.41
4:D:153:PHE:O	4:D:157:PHE:HB2	2.20	0.41
4:D:313:THR:H	4:D:316:THR:CG2	2.34	0.41
4:D:315:TYR:CZ	4:D:319:LEU:HD12	2.55	0.41
22:D:1005:CLA:HMA2	24:D:1042:PQ9:H443	2.01	0.41
22:D:1004:CLA:H111	22:D:1004:CLA:H71	1.71	0.41
6:F:37:ILE:C	6:F:39:ALA:N	2.74	0.41
6:F:43:ILE:O	9:J:36:LEU:HG	2.20	0.41
11:L:25:LEU:HB3	14:T:13:ILE:HG12	2.01	0.41
13:O:183:LEU:HA	13:O:188:ARG:O	2.21	0.41
15:U:41:LEU:HD11	15:U:74:ILE:CG2	2.50	0.41
15:U:43:PRO:CG	16:V:109:ASP:CB	2.99	0.41
15:U:70:ARG:O	15:U:71:GLN:C	2.64	0.41
1:a:5052:PHE:HD2	1:a:5071:LEU:HD11	1.78	0.41
1:a:5161:TYR:N	1:a:5162:PRO:CD	2.83	0.41
1:a:5180:PHE:O	1:a:5184:ILE:CD1	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5184:ILE:CD1	4:d:5186:GLN:NE2	2.84	0.41
1:a:5213:ALA:HB3	23:d:6039:PHO:CBC	2.50	0.41
26:a:6063:LHG:H332	26:a:6063:LHG:H302	1.58	0.41
2:b:5062:VAL:HG11	22:b:6013:CLA:HED2	1.99	0.41
2:b:5191:ASN:ND2	7:h:5060:VAL:CG1	2.72	0.41
22:b:6016:CLA:H8	22:h:6017:CLA:H111	2.02	0.41
3:c:5151:TRP:O	3:c:5152:LYS:C	2.62	0.41
22:c:6036:CLA:H3A	22:c:6036:CLA:HBA1	1.59	0.41
4:d:5031:GLY:O	4:d:5033:SER:N	2.54	0.41
4:d:5054:PHE:HD1	5:e:5047:PHE:HE1	1.69	0.41
4:d:5183:LEU:O	4:d:5184:PHE:C	2.62	0.41
4:d:5247:VAL:C	4:d:5249:ALA:N	2.78	0.41
4:d:5276:VAL:HG23	4:d:5277:THR:H	1.83	0.41
22:d:6005:CLA:HBD	22:d:6005:CLA:HAA1	2.01	0.41
13:o:5076:PHE:CE2	13:o:5132:VAL:HG21	2.45	0.41
13:o:5136:MET:HB2	13:o:5140:GLU:HB2	2.02	0.41
13:o:5179:THR:CG2	13:o:5180:ALA:N	2.63	0.41
20:z:5043:GLY:O	20:z:5047:TRP:HB2	2.20	0.41
20:z:5055:GLY:C	20:z:5057:LEU:N	2.78	0.41
1:A:60:ILE:O	1:A:61:ASP:C	2.63	0.41
1:A:193:LEU:O	4:D:179:PHE:CE2	2.73	0.41
1:A:202:VAL:HA	1:A:205:VAL:HG11	2.02	0.41
1:A:223:LEU:CG	4:D:265:ARG:HG2	2.51	0.41
1:A:271:LEU:C	1:A:273:PHE:N	2.76	0.41
2:B:33:TRP:HH2	2:B:62:VAL:CG2	2.33	0.41
2:B:98:LEU:O	2:B:102:VAL:HG22	2.20	0.41
2:B:247:PHE:O	2:B:247:PHE:CD1	2.72	0.41
22:B:1010:CLA:H93	22:B:1010:CLA:H62	1.81	0.41
3:C:168:LEU:HB3	22:C:1025:CLA:HMC2	2.02	0.41
3:C:200:THR:OG1	3:C:201:ASN:N	2.53	0.41
3:C:304:PRO:HG3	3:C:398:HIS:O	2.21	0.41
3:C:318:LEU:HD23	3:C:318:LEU:C	2.45	0.41
3:C:348:GLU:CB	13:O:42:ALA:HB3	2.49	0.41
3:C:350:ILE:CG2	3:C:359:TRP:HB2	2.31	0.41
3:C:367:GLU:O	3:C:368:PRO:C	2.61	0.41
3:C:431:PHE:CD2	3:C:431:PHE:O	2.69	0.41
3:C:443:TRP:CE3	3:C:443:TRP:CA	3.02	0.41
22:C:1025:CLA:H203	22:C:1025:CLA:H162	1.72	0.41
4:D:27:PHE:HD1	6:F:19:ARG:HG3	1.85	0.41
4:D:78:VAL:CG1	4:D:173:PHE:CB	2.99	0.41
4:D:87:HIS:C	4:D:167:TRP:NE1	2.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:116:LEU:O	4:D:120:PHE:CD2	2.74	0.41
4:D:273:PHE:O	4:D:276:VAL:HG22	2.21	0.41
4:D:282:SER:HB2	22:D:1004:CLA:HED3	2.01	0.41
22:D:1008:CLA:H61	22:D:1008:CLA:H41	1.64	0.41
6:F:34:LEU:HD13	9:J:28:PHE:HZ	1.85	0.41
28:L:1061:MGE:H6B2	28:L:1061:MGE:H3B1	1.58	0.41
13:O:33:TYR:CD2	13:O:33:TYR:C	2.98	0.41
13:O:56:TYR:O	13:O:161:SER:HA	2.20	0.41
13:O:195:ASP:OD1	13:O:195:ASP:C	2.62	0.41
14:T:22:PHE:N	14:T:22:PHE:HD1	2.17	0.41
16:V:105:PRO:HG2	16:V:115:ALA:CA	2.50	0.41
1:a:5120:LEU:HD11	1:a:5155:PHE:CD1	2.55	0.41
1:a:5142:TRP:CZ2	1:a:5273:PHE:HD1	2.38	0.41
1:a:5193:LEU:O	4:d:5179:PHE:CE2	2.73	0.41
1:a:5202:VAL:HA	1:a:5205:VAL:HG11	2.02	0.41
1:a:5223:LEU:CD1	4:d:5265:ARG:HG2	2.46	0.41
23:a:6038:PHO:HAA1	23:a:6038:PHO:HBD	2.02	0.41
23:a:6038:PHO:OBD	23:a:6038:PHO:O2D	2.38	0.41
2:b:5018:ARG:HH11	11:l:5004:ASN:ND2	2.19	0.41
2:b:5041:GLU:CD	2:b:5062:VAL:H	2.28	0.41
2:b:5113:TRP:CZ2	22:b:6024:CLA:HBD	2.56	0.41
2:b:5284:ILE:HD11	2:b:5309:LEU:HG	2.01	0.41
2:b:5469:HIS:O	2:b:5473:THR:N	2.54	0.41
22:b:6024:CLA:H111	22:b:6024:CLA:H143	1.77	0.41
3:c:5064:ALA:O	3:c:5068:THR:CB	2.68	0.41
3:c:5222:GLY:HA3	3:c:5225:VAL:HG22	2.03	0.41
3:c:5229:ASN:ND2	3:c:5232:ASP:OD2	2.47	0.41
3:c:5315:MET:HE2	3:c:5319:ILE:CG1	2.50	0.41
4:d:5078:VAL:CG1	4:d:5173:PHE:CB	2.99	0.41
4:d:5093:TRP:HA	4:d:5099:GLY:H	1.84	0.41
4:d:5111:TRP:CE2	4:d:5173:PHE:HE2	2.38	0.41
4:d:5275:PRO:HB2	4:d:5276:VAL:H	1.66	0.41
28:d:6062:MGE:O1A	28:d:6062:MGE:C4B	2.66	0.41
13:o:5183:LEU:HA	13:o:5188:ARG:O	2.21	0.41
17:x:5012:ILE:O	17:x:5012:ILE:CG1	2.67	0.41
1:A:14:TRP:C	1:A:14:TRP:HD1	2.29	0.41
1:A:121:LEU:C	1:A:123:ALA:H	2.29	0.41
1:A:172:MET:HE3	1:A:182:PHE:CD2	2.40	0.41
1:A:185:VAL:HG12	1:A:186:PHE:N	2.34	0.41
1:A:190:HIS:HA	1:A:298:ASN:HB3	2.03	0.41
1:A:207:GLY:O	1:A:208:GLY:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:272:HIS:HB3	4:D:218:VAL:CG1	2.50	0.41
24:A:1043:PQ9:H37	24:A:1043:PQ9:H311	2.01	0.41
2:B:113:TRP:CZ2	22:B:1024:CLA:HBD	2.56	0.41
2:B:147:GLY:O	2:B:148:LEU:C	2.64	0.41
2:B:172:TYR:CD2	2:B:173:GLY:N	2.88	0.41
2:B:201:HIS:CD2	2:B:202:HIS:CD2	3.09	0.41
2:B:333:GLY:HA2	2:B:442:ILE:O	2.20	0.41
2:B:366:PHE:CG	2:B:367:PRO:HD2	2.56	0.41
22:B:1023:CLA:HAA2	22:B:1023:CLA:CBD	2.51	0.41
22:B:1024:CLA:O2A	22:B:1024:CLA:C2A	2.62	0.41
3:C:81:MET:O	3:C:86:LEU:HD12	2.20	0.41
3:C:101:PRO:C	3:C:102:GLY:O	2.63	0.41
3:C:131:TYR:C	3:C:133:ALA:N	2.77	0.41
3:C:305:THR:O	3:C:308:GLU:HB3	2.19	0.41
25:C:1052:BCR:C8	25:C:1052:BCR:H331	2.49	0.41
4:D:176:ALA:O	4:D:179:PHE:N	2.52	0.41
4:D:249:ALA:O	4:D:250:ASN:C	2.63	0.41
6:F:15:ILE:HD12	31:F:1040:HEM:HMD1	2.02	0.41
9:J:34:ALA:O	9:J:35:GLY:O	2.39	0.41
13:O:162:ILE:HD13	13:O:269:ILE:HD12	2.02	0.41
16:V:32:GLU:HA	16:V:35:THR:CB	2.51	0.41
1:a:5059:ASP:O	1:a:5061:ASP:O	2.39	0.41
1:a:5173:PRO:HD2	1:a:5182:PHE:HB2	2.03	0.41
1:a:5200:LEU:O	1:a:5203:ALA:HB3	2.21	0.41
1:a:5316:THR:CG2	4:d:5075:THR:HG23	2.51	0.41
1:a:5318:ALA:O	1:a:5321:ILE:HB	2.21	0.41
2:b:5219:VAL:HG12	2:b:5220:ARG:N	2.34	0.41
2:b:5246:PHE:C	2:b:5246:PHE:HD1	2.28	0.41
3:c:5284:PHE:HB3	29:c:6055:DGD:C8B	2.50	0.41
3:c:5404:LEU:O	3:c:5405:ASN:C	2.63	0.41
3:c:5451:ALA:O	3:c:5454:GLY:N	2.53	0.41
3:c:5459:ILE:O	4:d:5223:PHE:HA	2.21	0.41
22:c:6025:CLA:H3A	22:c:6025:CLA:HBA2	1.58	0.41
22:c:6035:CLA:H93	22:c:6035:CLA:H2	2.02	0.41
22:c:6036:CLA:H42	22:c:6036:CLA:O2A	2.19	0.41
4:d:5148:ALA:CB	4:d:5149:PRO:HD3	2.29	0.41
4:d:5221:THR:CG2	4:d:5248:THR:HB	2.46	0.41
5:e:5032:ILE:HD13	5:e:5032:ILE:HA	1.92	0.41
22:h:6017:CLA:H61	22:h:6017:CLA:H41	1.61	0.41
13:o:5209:ALA:O	13:o:5210:ARG:C	2.62	0.41
14:t:5018:PHE:CD1	25:t:1046:BCR:C33	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:u:5043:PRO:CG	16:v:5109:ASP:CB	2.99	0.41
15:u:5073:GLN:HA	15:u:5073:GLN:NE2	2.36	0.41
15:u:5075:LEU:HD12	15:u:5075:LEU:N	2.34	0.41
15:u:5078:ASN:O	15:u:5079:LEU:C	2.61	0.41
1:A:93:PHE:C	1:A:95:PRO:HD3	2.45	0.41
1:A:184:ILE:CD1	4:D:186:GLN:NE2	2.84	0.41
1:A:226:GLU:O	1:A:227:THR:HB	2.21	0.41
1:A:323:ARG:CG	4:D:329:MET:HA	2.50	0.41
22:A:1003:CLA:CHD	22:A:1003:CLA:CBC	2.96	0.41
22:A:1007:CLA:H142	22:A:1007:CLA:H111	1.67	0.41
2:B:12:LEU:C	2:B:13:ILE:CG2	2.94	0.41
2:B:121:GLU:O	2:B:124:ARG:N	2.35	0.41
2:B:149:LEU:CB	22:B:1012:CLA:C20	2.95	0.41
2:B:346:PHE:HE1	2:B:421:ALA:HB2	1.84	0.41
2:B:359:MET:HE2	2:B:359:MET:HB2	1.92	0.41
2:B:469:HIS:O	2:B:473:THR:N	2.54	0.41
2:B:472:ARG:CD	22:B:1019:CLA:HED3	2.50	0.41
22:B:1010:CLA:C3D	22:B:1011:CLA:CMB	2.98	0.41
22:B:1018:CLA:H8	22:B:1023:CLA:HBA2	2.01	0.41
3:C:33:PHE:CD2	4:D:229:ALA:CB	3.04	0.41
3:C:62:PHE:CE2	10:K:29:PRO:HG3	2.55	0.41
3:C:131:TYR:C	3:C:133:ALA:H	2.29	0.41
3:C:401:LEU:O	3:C:409:GLY:N	2.48	0.41
22:C:1026:CLA:H92	22:C:1026:CLA:H61	1.63	0.41
4:D:53:THR:HG22	4:D:67:TYR:HD2	1.85	0.41
4:D:67:TYR:CE1	4:D:76:VAL:HG11	2.55	0.41
4:D:92:LEU:HG	4:D:99:GLY:HA2	2.03	0.41
5:E:77:GLU:O	5:E:80:LEU:N	2.53	0.41
22:K:1034:CLA:H43	22:K:1034:CLA:CBA	2.44	0.41
16:V:118:HIS:NE2	31:V:1041:HEM:NB	2.69	0.41
1:a:5129:ARG:CZ	4:d:5256:ILE:CD1	2.91	0.41
1:a:5172:MET:HE3	1:a:5182:PHE:CD2	2.40	0.41
1:a:5223:LEU:CG	4:d:5265:ARG:HG2	2.51	0.41
1:a:5259:ILE:O	1:a:5260:PHE:HB2	2.20	0.41
25:a:6044:BCR:C39	25:a:6044:BCR:H373	2.29	0.41
2:b:5230:ARG:O	2:b:5231:MET:C	2.63	0.41
2:b:5280:PHE:O	2:b:5284:ILE:CG1	2.67	0.41
2:b:5326:ARG:HG2	4:d:5297:ASP:OD2	2.20	0.41
2:b:5422:ARG:O	2:b:5422:ARG:HG2	2.21	0.41
22:b:6015:CLA:HAA1	22:b:6015:CLA:CBD	2.50	0.41
22:b:6023:CLA:H112	22:b:6024:CLA:C11	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:5079:LYS:O	3:c:5084:GLN:NE2	2.54	0.41
3:c:5081:MET:O	3:c:5086:LEU:HD12	2.20	0.41
3:c:5109:PHE:CB	3:c:5110:PRO:HD3	2.46	0.41
3:c:5418:ASN:HD22	29:c:6057:DGD:HE61	1.84	0.41
3:c:5464:GLU:HA	3:c:5465:PRO:HD3	1.84	0.41
22:c:6025:CLA:H62	22:c:6025:CLA:H93	1.59	0.41
4:d:5021:TRP:CE3	4:d:5022:LEU:HB3	2.55	0.41
4:d:5171:PRO:HA	4:d:5181:PHE:CE2	2.55	0.41
4:d:5249:ALA:O	4:d:5250:ASN:C	2.63	0.41
4:d:5253:TRP:C	4:d:5255:GLN:N	2.78	0.41
7:h:5027:THR:HG22	22:h:6017:CLA:HMD2	2.01	0.41
11:l:5029:LEU:C	11:l:5029:LEU:CD1	2.90	0.41
12:m:5020:VAL:O	12:m:5024:ILE:HG13	2.20	0.41
13:o:5056:TYR:O	13:o:5161:SER:HA	2.21	0.41
14:t:5002:GLU:N	14:t:5002:GLU:OE1	2.54	0.41
16:v:5047:LEU:CG	16:v:5048:THR:H	2.33	0.41
16:v:5071:ILE:HG13	16:v:5072:THR:N	2.35	0.41
16:v:5108:TYR:O	16:v:5108:TYR:CD2	2.72	0.41
17:x:5023:LEU:C	17:x:5023:LEU:HD23	2.46	0.41
20:z:5035:ARG:HG3	20:z:5036:SER:H	1.86	0.41
1:A:135:TYR:HE1	3:C:449:ARG:O	2.03	0.41
1:A:258:LEU:C	1:A:259:ILE:CG1	2.92	0.41
25:A:1044:BCR:C37	25:A:1044:BCR:C30	2.61	0.41
2:B:12:LEU:CD2	2:B:19:LEU:HA	2.51	0.41
2:B:125:ASP:OD1	2:B:126:PRO:HD2	2.21	0.41
2:B:242:ILE:HG22	2:B:466:HIS:HB2	2.03	0.41
2:B:421:ALA:O	2:B:424:ALA:N	2.50	0.41
2:B:429:ILE:HG22	2:B:430:PHE:N	2.34	0.41
22:B:1012:CLA:HBB1	22:B:1015:CLA:CAB	2.45	0.41
22:B:1013:CLA:C2B	22:B:1014:CLA:H11	2.51	0.41
22:B:1016:CLA:CHD	22:B:1016:CLA:CBC	2.97	0.41
22:B:1019:CLA:C19	22:B:1021:CLA:H71	2.50	0.41
22:B:1023:CLA:H112	22:B:1024:CLA:C11	2.51	0.41
3:C:110:PRO:O	3:C:113:VAL:HB	2.21	0.41
3:C:309:ALA:C	3:C:311:GLN:N	2.78	0.41
3:C:315:MET:HA	3:C:315:MET:CE	2.43	0.41
22:C:1028:CLA:H71	22:C:1028:CLA:H111	1.83	0.41
4:D:42:TYR:O	4:D:43:LEU:C	2.64	0.41
4:D:161:PRO:HG3	4:D:170:ALA:HA	2.02	0.41
4:D:186:GLN:CB	22:D:1004:CLA:HBC1	2.51	0.41
4:D:236:ASN:HA	4:D:237:PRO:HD2	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:267:LEU:HD23	4:D:268:HIS:N	2.35	0.41
5:E:23:HIS:O	5:E:27:ILE:HD13	2.21	0.41
5:E:34:GLY:CA	6:F:32:PHE:CD1	3.03	0.41
11:L:19:LEU:N	11:L:19:LEU:HD23	2.34	0.41
20:Z:43:GLY:O	20:Z:47:TRP:HB2	2.20	0.41
1:a:5037:MET:SD	1:a:5126:TYR:CB	3.08	0.41
1:a:5055:ALA:O	1:a:5073:TYR:CD2	2.74	0.41
1:a:5121:LEU:C	1:a:5123:ALA:H	2.29	0.41
1:a:5127:MET:C	1:a:5130:GLN:HB3	2.42	0.41
1:a:5141:PRO:HG2	3:c:5446:GLY:O	2.21	0.41
1:a:5262:TYR:C	1:a:5264:SER:H	2.27	0.41
22:a:6006:CLA:HAA1	22:a:6006:CLA:CBD	2.50	0.41
2:b:5055:MET:O	2:b:5057:ARG:N	2.54	0.41
2:b:5429:ILE:N	2:b:5429:ILE:CD1	2.76	0.41
22:b:6021:CLA:HED3	22:b:6021:CLA:C2	2.41	0.41
22:b:6021:CLA:HED1	22:b:6021:CLA:H52	2.02	0.41
22:c:6033:CLA:C9	22:c:6036:CLA:CAA	2.97	0.41
4:d:5042:TYR:O	4:d:5043:LEU:C	2.64	0.41
4:d:5103:ARG:HG3	5:e:5073:LYS:CD	2.50	0.41
4:d:5116:LEU:O	4:d:5120:PHE:CD2	2.74	0.41
4:d:5140:PRO:C	4:d:5142:ASN:N	2.79	0.41
9:j:5034:ALA:O	9:j:5035:GLY:C	2.64	0.41
16:v:5047:LEU:HG	16:v:5048:THR:H	1.86	0.41
16:v:5061:TYR:C	16:v:5063:CYS:H	2.28	0.41
16:v:5118:HIS:NE2	31:v:6041:HEM:NB	2.69	0.41
20:z:5058:ASN:C	20:z:5060:PHE:N	2.77	0.41
1:A:46:ILE:HD13	1:A:46:ILE:HA	1.88	0.41
1:A:120:LEU:HD11	1:A:155:PHE:CD1	2.55	0.41
1:A:124:SER:OG	1:A:155:PHE:CE2	2.74	0.41
1:A:180:PHE:HD1	4:D:192:THR:HB	1.73	0.41
1:A:195:HIS:ND1	1:A:197:PHE:HB2	2.36	0.41
1:A:279:ARG:HG2	4:D:212:ALA:CB	2.50	0.41
1:A:316:THR:CG2	4:D:75:THR:CG2	2.99	0.41
1:A:331:MET:CG	4:D:320:LEU:HD22	2.51	0.41
22:A:1006:CLA:HAA2	29:C:1057:DGD:HBN2	2.02	0.41
2:B:41:GLU:HB3	2:B:60:MET:SD	2.60	0.41
2:B:49:ASP:C	2:B:51:VAL:H	2.26	0.41
2:B:62:VAL:C	2:B:64:PRO:HD2	2.46	0.41
2:B:67:ALA:CB	2:B:267:LEU:HD21	2.50	0.41
2:B:69:LEU:HD23	22:B:1013:CLA:H3A	2.03	0.41
2:B:110:ALA:O	2:B:113:TRP:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:121:GLU:HB3	7:H:4:ARG:HA	2.01	0.41
2:B:137:LYS:NZ	2:B:137:LYS:HB3	2.36	0.41
2:B:185:TRP:C	2:B:186:GLY:O	2.64	0.41
2:B:192:PRO:HG3	7:H:49:TYR:CD1	2.55	0.41
2:B:219:VAL:HG12	2:B:220:ARG:N	2.34	0.41
2:B:271:THR:HG23	2:B:274:GLN:H	1.85	0.41
2:B:341:LYS:O	2:B:404:GLY:HA3	2.20	0.41
22:B:1011:CLA:H92	22:B:1011:CLA:CBB	2.43	0.41
22:B:1016:CLA:H8	22:H:1017:CLA:H111	2.02	0.41
3:C:49:LEU:HD23	3:C:133:ALA:HB2	2.03	0.41
3:C:284:PHE:HB3	29:C:1055:DGD:C8B	2.50	0.41
3:C:376:ASP:OD1	3:C:379:LYS:HG3	2.20	0.41
3:C:386:PRO:C	3:C:388:GLN:H	2.28	0.41
22:C:1025:CLA:H3A	22:C:1025:CLA:HBA2	1.58	0.41
29:C:1056:DGD:HG12	29:C:1056:DGD:HB21	2.02	0.41
4:D:89:LEU:O	4:D:90:LEU:C	2.63	0.41
4:D:103:ARG:HG3	5:E:73:LYS:CD	2.50	0.41
4:D:129:GLN:NE2	4:D:142:ASN:OD1	2.54	0.41
22:D:1005:CLA:CMA	24:D:1042:PQ9:H443	2.50	0.41
23:D:1039:PHO:H92	23:D:1039:PHO:H111	1.74	0.41
25:D:1050:BCR:C16	25:D:1050:BCR:H351	2.48	0.41
6:F:13:TYR:HA	6:F:14:PRO:HD3	1.96	0.41
13:O:37:VAL:O	13:O:37:VAL:CG1	2.68	0.41
13:O:118:SER:HB3	13:O:157:PRO:HA	2.03	0.41
13:O:131:PRO:HA	13:O:145:LEU:HD12	2.03	0.41
13:O:184:ASP:CG	13:O:188:ARG:HH12	2.29	0.41
13:O:188:ARG:HD3	13:O:212:ASN:OD1	2.21	0.41
13:O:211:ALA:O	13:O:214:LYS:HD3	2.21	0.41
13:O:265:PHE:HD1	13:O:266:TYR:O	2.04	0.41
16:V:35:THR:HG23	16:V:46:THR:H	1.85	0.41
16:V:70:GLY:HA3	16:V:156:TRP:CE3	2.56	0.41
20:Z:35:ARG:HG3	20:Z:36:SER:H	1.86	0.41
1:a:5076:ASN:HB2	1:a:5079:THR:CG2	2.51	0.41
1:a:5085:SER:OG	1:a:5168:PHE:HB2	2.21	0.41
1:a:5104:GLU:O	1:a:5105:TRP:C	2.63	0.41
1:a:5107:TYR:O	1:a:5109:GLY:N	2.53	0.41
1:a:5124:SER:OG	1:a:5155:PHE:CE2	2.74	0.41
1:a:5147:TYR:CA	23:a:6038:PHO:HMD2	2.50	0.41
1:a:5150:PRO:C	22:a:6003:CLA:H52	2.46	0.41
1:a:5187:GLN:HG2	1:a:5328:MET:HE1	2.02	0.41
1:a:5190:HIS:HA	1:a:5298:ASN:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:5193:LEU:O	1:a:5193:LEU:CD2	2.68	0.41
1:a:5226:GLU:O	1:a:5227:THR:HB	2.21	0.41
1:a:5318:ALA:HA	1:a:5321:ILE:CD1	2.50	0.41
1:a:5338:ASN:C	1:a:5339:PHE:CG	2.99	0.41
22:a:6003:CLA:CHD	22:a:6003:CLA:CBC	2.96	0.41
23:a:6038:PHO:CHD	4:d:5209:LEU:HG	2.51	0.41
2:b:5012:LEU:C	2:b:5014:ASN:N	2.79	0.41
2:b:5024:LEU:CG	2:b:5111:ALA:HA	2.50	0.41
2:b:5042:LEU:HD12	2:b:5042:LEU:HA	1.95	0.41
2:b:5066:MET:O	2:b:5071:VAL:N	2.54	0.41
2:b:5095:GLY:O	2:b:5096:VAL:C	2.64	0.41
2:b:5137:LYS:NZ	2:b:5137:LYS:HB3	2.36	0.41
2:b:5292:LEU:C	2:b:5294:SER:N	2.79	0.41
2:b:5306:PRO:O	2:b:5307:GLU:C	2.64	0.41
2:b:5308:LYS:O	2:b:5312:TYR:CD2	2.74	0.41
2:b:5333:GLY:HA2	2:b:5442:ILE:O	2.21	0.41
2:b:5366:PHE:CG	2:b:5367:PRO:HD2	2.55	0.41
2:b:5392:PHE:HE2	2:b:5417:VAL:HG12	1.85	0.41
2:b:5468:TRP:CZ2	22:b:6019:CLA:HED2	2.56	0.41
2:b:5478:VAL:O	2:b:5479:PHE:C	2.64	0.41
22:b:6018:CLA:H141	22:b:6018:CLA:OBD	2.21	0.41
22:b:6022:CLA:H202	22:b:6022:CLA:C3D	2.49	0.41
28:b:6060:MGE:H7A1	28:b:6060:MGE:H121	2.03	0.41
3:c:5118:HIS:HA	3:c:5121:SER:HB3	2.03	0.41
3:c:5157:MET:HE2	3:c:5271:TYR:CE2	2.55	0.41
3:c:5200:THR:OG1	3:c:5201:ASN:N	2.53	0.41
3:c:5340:TYR:C	3:c:5341:LEU:HG	2.46	0.41
3:c:5343:ARG:NH1	3:c:5348:GLU:CB	2.82	0.41
3:c:5343:ARG:NH2	13:o:5103:SER:O	2.47	0.41
3:c:5425:TRP:CD1	22:c:6028:CLA:HMA2	2.55	0.41
4:d:5053:THR:HG23	4:d:5067:TYR:HE2	1.83	0.41
4:d:5090:LEU:HD12	4:d:5096:GLU:CG	2.49	0.41
4:d:5097:ALA:HB1	4:d:5104:TRP:HB2	2.01	0.41
4:d:5098:GLN:O	4:d:5099:GLY:C	2.63	0.41
4:d:5284:ILE:O	4:d:5287:VAL:N	2.54	0.41
4:d:5307:GLU:H	4:d:5307:GLU:HG3	1.57	0.41
6:f:5028:VAL:CB	6:f:5029:PRO:HD3	2.41	0.41
7:h:5002:ALA:O	7:h:5003:ARG:HB2	2.21	0.41
7:h:5006:TRP:HD1	7:h:5010:ILE:HD11	1.72	0.41
7:h:5027:THR:C	22:h:6017:CLA:OBD	2.63	0.41
8:i:5003:THR:O	8:i:5006:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:k:5029:PRO:O	10:k:5032:PHE:HB2	2.20	0.41
11:l:5015:THR:HA	11:l:5018:TYR:HD2	1.86	0.41
13:o:5172:PHE:HD1	13:o:5221:GLY:HA3	1.77	0.41
13:o:5184:ASP:CG	13:o:5188:ARG:HB2	2.46	0.41
13:o:5211:ALA:O	13:o:5214:LYS:HD3	2.21	0.41
13:o:5223:ILE:HD13	13:o:5225:LEU:CD1	2.50	0.41
15:u:5041:LEU:HD11	15:u:5074:ILE:CG2	2.50	0.41
15:u:5070:ARG:O	15:u:5071:GLN:C	2.64	0.41
16:v:5047:LEU:HD23	16:v:5048:THR:O	2.21	0.41
16:v:5070:GLY:HA3	16:v:5156:TRP:CE3	2.56	0.41
16:v:5105:PRO:HG2	16:v:5115:ALA:CA	2.50	0.41
16:v:5120:SER:O	16:v:5123:SER:C	2.64	0.41
16:v:5148:GLU:O	16:v:5151:ILE:CD1	2.68	0.41
16:v:5156:TRP:HA	16:v:5156:TRP:HE3	1.85	0.41
18:y:5035:ILE:CD1	18:y:5036:ILE:HD12	2.50	0.41
1:A:47:CYS:HA	25:A:1044:BCR:H372	2.02	0.41
1:A:76:ASN:HB2	1:A:79:THR:CG2	2.51	0.41
1:A:141:PRO:HG2	3:C:446:GLY:O	2.21	0.41
1:A:210:LEU:HD12	23:D:1039:PHO:NC	2.36	0.41
1:A:260:PHE:O	4:D:27:PHE:HE2	2.04	0.41
1:A:338:ASN:C	1:A:339:PHE:CG	2.96	0.41
22:A:1007:CLA:H193	22:A:1007:CLA:H162	1.73	0.41
2:B:41:GLU:CD	2:B:62:VAL:H	2.28	0.41
2:B:69:LEU:CB	22:B:1014:CLA:HMA1	2.51	0.41
2:B:241:SER:C	2:B:243:ALA:N	2.77	0.41
2:B:275:TRP:CH2	2:B:358:ARG:HD3	2.56	0.41
2:B:341:LYS:HD2	2:B:429:ILE:CG2	2.51	0.41
2:B:422:ARG:O	2:B:422:ARG:HG2	2.21	0.41
22:B:1021:CLA:HED1	22:B:1021:CLA:H52	2.02	0.41
4:D:100:ASP:O	4:D:103:ARG:N	2.54	0.41
4:D:253:TRP:C	4:D:255:GLN:N	2.78	0.41
4:D:281:MET:CA	4:D:281:MET:CE	2.97	0.41
28:D:1062:MGE:H241	14:T:13:ILE:HG21	2.03	0.41
8:I:4:LEU:HA	8:I:4:LEU:HD12	1.79	0.41
8:I:9:TYR:O	8:I:13:THR:N	2.36	0.41
11:L:36:PHE:CD1	12:M:7:GLY:HA3	2.55	0.41
13:O:136:MET:HB2	13:O:140:GLU:HB2	2.02	0.41
13:O:185:PRO:O	13:O:186:LYS:CB	2.68	0.41
13:O:197:ALA:O	13:O:199:ALA:N	2.53	0.41
14:T:2:GLU:N	14:T:2:GLU:OE1	2.54	0.41
25:T:6046:BCR:H23C	25:T:6046:BCR:C40	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:V:101:TYR:O	16:V:102:MET:C	2.63	0.41
1:a:5049:VAL:O	1:a:5053:ILE:HG13	2.21	0.41
1:a:5060:ILE:HD12	1:a:5084:PRO:HD2	2.03	0.41
1:a:5071:LEU:HD21	1:a:5077:ILE:HD13	2.03	0.41
1:a:5121:LEU:O	1:a:5122:GLY:C	2.64	0.41
1:a:5142:TRP:NE1	4:d:5219:GLU:HB3	2.36	0.41
1:a:5159:LEU:HD23	29:c:6055:DGD:HA82	2.03	0.41
1:a:5207:GLY:O	1:a:5208:GLY:C	2.64	0.41
1:a:5215:HIS:HD2	1:a:5275:LEU:CD1	2.33	0.41
1:a:5331:MET:CG	4:d:5320:LEU:HD22	2.51	0.41
25:a:6044:BCR:C40	25:a:6044:BCR:H372	2.29	0.41
2:b:5012:LEU:C	2:b:5013:ILE:CG2	2.94	0.41
2:b:5341:LYS:HD2	2:b:5429:ILE:CG2	2.51	0.41
2:b:5407:ASN:C	2:b:5409:GLN:H	2.28	0.41
22:b:6013:CLA:C2B	22:b:6014:CLA:H11	2.51	0.41
22:b:6020:CLA:HBA1	22:b:6020:CLA:H3A	1.59	0.41
3:c:5033:PHE:CD2	4:d:5229:ALA:CB	3.04	0.41
3:c:5058:GLY:O	3:c:5061:VAL:HG12	2.21	0.41
3:c:5348:GLU:CB	13:o:5042:ALA:HB3	2.49	0.41
3:c:5386:PRO:C	3:c:5388:GLN:H	2.28	0.41
4:d:5021:TRP:CZ3	17:x:5037:LEU:CD2	3.04	0.41
4:d:5087:HIS:O	4:d:5088:SER:C	2.63	0.41
22:d:6005:CLA:C15	22:d:6005:CLA:C20	2.97	0.41
7:h:5040:VAL:HG12	7:h:5044:ILE:HG12	2.03	0.41
22:k:6034:CLA:H93	22:k:6034:CLA:H62	1.77	0.41
13:o:5033:TYR:CD2	13:o:5033:TYR:C	2.98	0.41
13:o:5079:LYS:HE2	13:o:5089:ALA:HB3	2.01	0.41
13:o:5079:LYS:HA	13:o:5091:PHE:HA	2.03	0.41
1:A:49:VAL:O	1:A:53:ILE:HG13	2.21	0.40
1:A:59:ASP:O	1:A:61:ASP:O	2.39	0.40
1:A:96:ILE:O	1:A:96:ILE:HG22	2.20	0.40
1:A:104:GLU:O	1:A:105:TRP:C	2.63	0.40
1:A:155:PHE:CE1	29:C:1055:DGD:HBN1	2.56	0.40
1:A:233:ALA:C	4:D:265:ARG:HH12	2.29	0.40
1:A:256:GLY:O	1:A:261:GLN:CA	2.69	0.40
1:A:309:ALA:HB3	16:V:28:GLU:CG	2.50	0.40
23:A:1038:PHO:HAA1	23:A:1038:PHO:HBD	2.02	0.40
24:A:1043:PQ9:H37	24:A:1043:PQ9:C31	2.51	0.40
24:A:1043:PQ9:H401	24:A:1043:PQ9:H361	1.70	0.40
2:B:93:PHE:O	2:B:94:GLU:C	2.64	0.40
2:B:135:LEU:H	2:B:136:PRO:CD	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:460:LEU:CA	29:B:1058:DGD:HAG1	2.38	0.40
22:B:1016:CLA:HAA1	22:B:1016:CLA:CBD	2.49	0.40
22:B:1020:CLA:H91	22:B:1020:CLA:H112	1.56	0.40
3:C:321:ASP:OD1	3:C:340:TYR:CE1	2.74	0.40
3:C:464:GLU:HA	3:C:465:PRO:HD3	1.84	0.40
4:D:21:TRP:CZ3	17:X:37:LEU:CD2	3.04	0.40
4:D:68:LEU:CA	6:F:40:MET:SD	3.06	0.40
4:D:98:GLN:O	4:D:99:GLY:C	2.63	0.40
4:D:284:ILE:O	4:D:287:VAL:N	2.54	0.40
22:D:1005:CLA:C15	22:D:1005:CLA:C20	2.97	0.40
7:H:47:GLU:OE2	7:H:52:THR:HG21	2.21	0.40
9:J:21:VAL:CG1	9:J:22:ILE:N	2.84	0.40
9:J:24:ILE:HG23	9:J:25:VAL:N	2.36	0.40
16:V:30:THR:HB	16:V:31:PRO:CD	2.52	0.40
20:Z:5:PHE:HD1	20:Z:57:LEU:HD13	1.87	0.40
1:a:5105:TRP:CH2	1:a:5111:PRO:HA	2.55	0.40
1:a:5304:HIS:HE1	16:v:5163:TYR:O	2.03	0.40
22:a:6006:CLA:HAA2	29:c:6057:DGD:HBN2	2.02	0.40
24:a:6043:PQ9:C45	28:d:6059:MGE:C8A	2.80	0.40
24:a:6043:PQ9:H212	23:d:6039:PHO:CED	2.45	0.40
2:b:5113:TRP:CD1	2:b:5113:TRP:C	2.98	0.40
2:b:5219:VAL:CG1	2:b:5220:ARG:N	2.84	0.40
2:b:5248:ALA:CB	22:b:6011:CLA:H51	2.51	0.40
2:b:5271:THR:HG23	2:b:5274:GLN:H	1.85	0.40
2:b:5421:ALA:O	2:b:5424:ALA:N	2.50	0.40
3:c:5131:TYR:C	3:c:5133:ALA:H	2.29	0.40
3:c:5173:LEU:O	3:c:5174:LEU:C	2.63	0.40
3:c:5304:PRO:HG3	3:c:5398:HIS:O	2.21	0.40
22:c:6031:CLA:CMA	22:c:6031:CLA:C2	2.99	0.40
29:c:6056:DGD:HAT1	29:c:6056:DGD:C6A	2.47	0.40
4:d:5129:GLN:NE2	4:d:5142:ASN:OD1	2.54	0.40
4:d:5260:ALA:HA	24:d:6042:PQ9:H91	2.02	0.40
4:d:5292:ASN:O	4:d:5294:ARG:HG2	2.20	0.40
28:d:6062:MGE:O1G	28:d:6062:MGE:C1B	2.69	0.40
7:h:5003:ARG:HE	7:h:5003:ARG:HB3	1.54	0.40
9:j:5021:VAL:CG1	9:j:5022:ILE:N	2.84	0.40
22:k:6034:CLA:C4	22:k:6034:CLA:HBA1	2.49	0.40
1:A:78:ILE:HD13	11:L:33:SER:CB	2.50	0.40
1:A:85:SER:OG	1:A:168:PHE:HB2	2.21	0.40
1:A:186:PHE:O	1:A:189:GLU:N	2.54	0.40
1:A:218:LEU:O	1:A:221:SER:N	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:PHE:HB3	3:C:313:GLN:CD	2.45	0.40
2:B:5:TRP:CE2	28:L:1061:MGE:C2A	3.04	0.40
2:B:19:LEU:O	2:B:22:ALA:N	2.53	0.40
2:B:24:LEU:HD22	2:B:114:HIS:CD2	2.55	0.40
2:B:52:LEU:CD1	2:B:339:ALA:HA	2.49	0.40
2:B:66:MET:O	2:B:71:VAL:N	2.54	0.40
2:B:102:VAL:O	2:B:106:LEU:HG	2.22	0.40
2:B:106:LEU:O	2:B:109:LEU:N	2.48	0.40
2:B:279:TYR:C	2:B:279:TYR:CD1	2.99	0.40
2:B:306:PRO:O	2:B:307:GLU:C	2.64	0.40
2:B:321:LYS:NZ	2:B:321:LYS:HA	2.37	0.40
2:B:392:PHE:CE2	2:B:418:LYS:HA	2.55	0.40
3:C:65:GLY:HA3	3:C:119:LEU:CA	2.51	0.40
3:C:418:ASN:HD22	29:C:1057:DGD:HE61	1.84	0.40
22:C:1027:CLA:H3A	22:C:1027:CLA:CGA	2.50	0.40
25:C:1054:BCR:HC8	25:C:1054:BCR:C31	2.51	0.40
4:D:21:TRP:CZ3	17:X:37:LEU:HD21	2.55	0.40
4:D:100:ASP:C	4:D:102:THR:N	2.80	0.40
4:D:199:MET:HG2	24:D:1042:PQ9:H352	2.02	0.40
28:D:1062:MGE:O1G	28:D:1062:MGE:C1B	2.69	0.40
13:O:79:LYS:HA	13:O:91:PHE:HA	2.03	0.40
13:O:183:LEU:CD1	13:O:183:LEU:N	2.84	0.40
14:T:14:ILE:CG2	14:T:15:ALA:N	2.84	0.40
25:T:6046:BCR:C23	25:T:6046:BCR:C39	2.83	0.40
16:V:120:SER:O	16:V:123:SER:C	2.64	0.40
16:V:147:VAL:C	16:V:149:PRO:HD2	2.46	0.40
1:a:5046:ILE:HD13	1:a:5046:ILE:HA	1.88	0.40
1:a:5186:PHE:O	1:a:5189:GLU:N	2.54	0.40
2:b:5023:HIS:CD2	22:b:6020:CLA:HBA2	2.57	0.40
2:b:5046:ASP:OD1	2:b:5048:SER:OG	2.39	0.40
2:b:5125:ASP:OD1	2:b:5126:PRO:HD2	2.21	0.40
2:b:5185:TRP:C	2:b:5186:GLY:O	2.64	0.40
2:b:5237:VAL:HG12	22:b:6020:CLA:HMD1	2.03	0.40
2:b:5272:ARG:NH2	2:b:5276:ASP:OD2	2.50	0.40
22:b:6016:CLA:CAB	4:d:5123:ILE:HG23	2.51	0.40
29:b:6058:DGD:HG11	7:h:5050:ASN:HD22	1.84	0.40
3:c:5289:PHE:C	3:c:5289:PHE:CD2	2.99	0.40
3:c:5321:ASP:OD1	3:c:5340:TYR:CE1	2.74	0.40
3:c:5322:GLN:HB2	3:c:5328:VAL:HG21	2.03	0.40
3:c:5377:LEU:C	3:c:5377:LEU:CD1	2.92	0.40
3:c:5432:VAL:HG13	3:c:5433:LEU:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:c:6031:CLA:CMD	22:c:6033:CLA:C16	2.99	0.40
22:c:6033:CLA:H3A	22:c:6033:CLA:HBA1	1.75	0.40
22:c:6035:CLA:HAA1	22:c:6035:CLA:CBD	2.52	0.40
4:d:5046:GLY:HA2	25:d:6050:BCR:H10C	2.02	0.40
4:d:5087:HIS:C	4:d:5167:TRP:NE1	2.78	0.40
4:d:5153:PHE:O	4:d:5157:PHE:HB2	2.20	0.40
7:h:5006:TRP:CD1	7:h:5010:ILE:CD1	2.88	0.40
7:h:5046:LEU:HD23	7:h:5046:LEU:C	2.46	0.40
7:h:5047:GLU:OE2	7:h:5052:THR:HG21	2.21	0.40
8:i:5011:VAL:O	8:i:5015:PHE:HD1	2.04	0.40
9:j:5035:GLY:O	9:j:5036:LEU:C	2.62	0.40
20:z:5012:LEU:CD2	20:z:5054:VAL:HG21	2.52	0.40
25:z:6053:BCR:H403	25:z:6053:BCR:H24C	1.86	0.40
1:A:150:PRO:C	22:A:1003:CLA:H52	2.46	0.40
1:A:153:SER:O	1:A:156:ALA:N	2.55	0.40
1:A:277:ALA:O	1:A:278:TRP:C	2.64	0.40
1:A:316:THR:CG2	4:D:75:THR:HG23	2.51	0.40
1:A:318:ALA:O	1:A:321:ILE:HB	2.21	0.40
2:B:149:LEU:HD13	22:B:1012:CLA:H203	2.03	0.40
2:B:158:LEU:C	2:B:160:GLY:H	2.28	0.40
2:B:208:VAL:HG21	22:B:1010:CLA:HMC2	2.02	0.40
2:B:468:TRP:CZ2	22:B:1019:CLA:HED2	2.56	0.40
22:B:1022:CLA:H143	22:B:1022:CLA:H71	1.94	0.40
22:B:1022:CLA:OBD	11:L:10:VAL:HG21	2.20	0.40
22:B:1023:CLA:C4D	22:B:1024:CLA:CMC	2.99	0.40
3:C:257:PHE:O	3:C:261:ARG:HG3	2.21	0.40
4:D:111:TRP:CE2	4:D:173:PHE:HE2	2.38	0.40
4:D:171:PRO:HA	4:D:181:PHE:CE2	2.55	0.40
4:D:176:ALA:C	4:D:178:ILE:N	2.79	0.40
5:E:8:ARG:HH21	6:F:13:TYR:H	1.68	0.40
9:J:21:VAL:HG12	9:J:22:ILE:CD1	2.35	0.40
9:J:34:ALA:O	9:J:35:GLY:C	2.64	0.40
22:K:1034:CLA:H162	22:K:1034:CLA:H141	1.70	0.40
28:L:1061:MGE:H7B1	28:L:1061:MGE:C3B	2.51	0.40
12:M:9:ILE:CD1	12:m:5008:PHE:HB3	2.51	0.40
13:O:223:ILE:HD13	13:O:225:LEU:CD1	2.50	0.40
15:U:9:LEU:H	15:U:9:LEU:HG	1.47	0.40
17:X:43:ILE:O	17:X:44:ASP:HB2	2.22	0.40
1:a:5099:ALA:O	1:a:5100:ALA:O	2.38	0.40
1:a:5187:GLN:HE22	1:a:5193:LEU:HB2	1.87	0.40
22:a:6007:CLA:H142	22:a:6007:CLA:H111	1.67	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:5093:PHE:O	2:b:5094:GLU:C	2.64	0.40
2:b:5275:TRP:CH2	2:b:5358:ARG:HD3	2.56	0.40
2:b:5394:GLN:HB3	15:u:5017:LEU:HD22	2.02	0.40
3:c:5063:TRP:CH2	22:c:6026:CLA:HMB3	2.56	0.40
3:c:5110:PRO:O	3:c:5113:VAL:HB	2.21	0.40
3:c:5362:ARG:NH1	3:c:5362:ARG:HG3	2.37	0.40
3:c:5449:ARG:O	3:c:5452:ALA:HB3	2.22	0.40
4:d:5100:ASP:O	4:d:5103:ARG:N	2.54	0.40
4:d:5221:THR:O	4:d:5244:TYR:CA	2.64	0.40
4:d:5313:THR:H	4:d:5316:THR:CG2	2.34	0.40
7:h:5019:GLY:O	7:h:5020:LYS:C	2.65	0.40
7:h:5053:LEU:CD1	7:h:5055:LEU:HD21	2.44	0.40
9:j:5024:ILE:O	9:j:5027:LEU:HB3	2.22	0.40
9:j:5034:ALA:O	9:j:5035:GLY:O	2.39	0.40
10:k:5011:LEU:O	10:k:5012:PRO:C	2.63	0.40
10:k:5017:ILE:H	10:k:5017:ILE:HG13	1.47	0.40
12:m:5028:GLN:HG3	12:m:5029:THR:N	2.36	0.40
13:o:5166:THR:HG22	13:o:5167:ASP:N	2.36	0.40
13:o:5195:ASP:O	13:o:5195:ASP:CG	2.65	0.40
15:u:5036:ILE:HG13	15:u:5037:GLN:N	2.36	0.40
1:A:105:TRP:HZ3	25:A:1044:BCR:C39	2.33	0.40
1:A:133:LEU:HB3	4:D:252:PHE:CE2	2.57	0.40
1:A:147:TYR:HA	23:A:1038:PHO:HMD2	2.03	0.40
1:A:213:ALA:HB3	23:D:1039:PHO:CBC	2.50	0.40
1:A:259:ILE:O	1:A:260:PHE:HB2	2.20	0.40
2:B:18:ARG:HH11	11:L:4:ASN:ND2	2.19	0.40
2:B:103:LEU:HD22	22:B:1014:CLA:H61	2.04	0.40
2:B:113:TRP:CD1	2:B:113:TRP:C	2.98	0.40
2:B:115:TRP:HB2	27:B:1067:IOD:I	2.91	0.40
2:B:174:LEU:HD21	2:B:265:ILE:HB	2.04	0.40
2:B:237:VAL:HG12	22:B:1020:CLA:HMD1	2.03	0.40
3:C:282:MET:HE2	3:C:282:MET:HB2	1.84	0.40
3:C:305:THR:O	3:C:305:THR:HG23	2.21	0.40
3:C:322:GLN:HB2	3:C:328:VAL:HG21	2.03	0.40
3:C:362:ARG:NH1	3:C:362:ARG:HG3	2.37	0.40
22:C:1029:CLA:C1C	22:C:1029:CLA:H41	2.52	0.40
22:C:1031:CLA:HAA2	22:C:1031:CLA:CBD	2.51	0.40
22:C:1031:CLA:CMD	22:C:1033:CLA:C16	2.99	0.40
22:C:1032:CLA:HBC2	22:C:1032:CLA:CHD	2.47	0.40
4:D:54:PHE:HD1	5:E:47:PHE:HE1	1.68	0.40
4:D:103:ARG:HG3	4:D:103:ARG:HH11	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:103:ARG:HA	4:D:106:GLN:HB2	2.04	0.40
5:E:49:THR:HA	5:E:50:PRO:HD3	1.88	0.40
8:I:6:ILE:O	8:I:10:ILE:CD1	2.70	0.40
8:I:11:VAL:O	8:I:15:PHE:HD1	2.04	0.40
9:J:24:ILE:O	9:J:27:LEU:HB3	2.21	0.40
16:V:47:LEU:HD23	16:V:48:THR:O	2.21	0.40
31:V:1041:HEM:HHC	31:V:1041:HEM:CBB	2.51	0.40
1:a:5143:ILE:CB	4:d:5220:ASN:ND2	2.78	0.40
23:a:6038:PHO:H93	23:a:6038:PHO:H62	1.68	0.40
2:b:5003:LEU:N	11:l:5011:GLU:HB2	2.36	0.40
2:b:5030:VAL:HG12	2:b:5031:ALA:N	2.37	0.40
2:b:5065:PHE:O	2:b:5066:MET:C	2.63	0.40
2:b:5069:LEU:HD12	2:b:5069:LEU:HA	1.84	0.40
2:b:5149:LEU:HD13	22:b:6012:CLA:H203	2.03	0.40
2:b:5206:GLY:O	2:b:5210:ILE:HG13	2.21	0.40
3:c:5080:PRO:HB2	3:c:5083:GLU:HG3	2.03	0.40
3:c:5157:MET:CE	3:c:5271:TYR:CD2	3.05	0.40
3:c:5205:ASP:HA	3:c:5206:PRO:HD2	2.00	0.40
3:c:5321:ASP:HB2	3:c:5340:TYR:CE1	2.56	0.40
3:c:5348:GLU:CB	13:o:5042:ALA:CB	2.84	0.40
22:c:6027:CLA:H143	22:c:6027:CLA:H112	1.87	0.40
22:c:6028:CLA:C1C	29:c:6056:DGD:HA31	2.47	0.40
29:c:6056:DGD:HG12	29:c:6056:DGD:HB21	2.02	0.40
4:d:5090:LEU:HD23	4:d:5109:GLY:HA2	2.04	0.40
4:d:5103:ARG:HG3	4:d:5103:ARG:HH11	1.87	0.40
4:d:5305:ALA:CB	13:o:5186:LYS:HD2	2.47	0.40
4:d:5352:LEU:HB2	16:v:5160:LYS:HE2	2.04	0.40
23:d:6039:PHO:H92	23:d:6039:PHO:H111	1.74	0.40
23:d:6039:PHO:HAA2	23:d:6039:PHO:HBD	2.03	0.40
8:i:5006:ILE:O	8:i:5010:ILE:CD1	2.70	0.40
11:l:5027:LEU:O	11:l:5028:ALA:C	2.65	0.40
13:o:5118:SER:HB3	13:o:5157:PRO:HA	2.03	0.40
13:o:5265:PHE:HD1	13:o:5266:TYR:O	2.04	0.40
14:t:5012:CYS:CA	27:t:6066:IOD:I	3.39	0.40
14:t:5014:ILE:CG2	14:t:5015:ALA:N	2.84	0.40
1:A:38:ILE:HB	1:A:39:PRO:HD3	2.02	0.40
1:A:49:VAL:HG23	1:A:50:ILE:HG13	2.04	0.40
1:A:55:ALA:O	1:A:73:TYR:CD2	2.74	0.40
1:A:173:PRO:HG2	1:A:178:GLY:HA3	2.04	0.40
1:A:187:GLN:CG	1:A:328:MET:HE1	2.51	0.40
1:A:224:ILE:C	2:B:482:ILE:H	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:331:MET:HE1	4:D:348:ARG:C	2.47	0.40
2:B:23:HIS:CD2	22:B:1020:CLA:HBA2	2.57	0.40
2:B:206:GLY:O	2:B:210:ILE:HG13	2.21	0.40
3:C:42:LEU:HD22	22:C:1035:CLA:CMA	2.52	0.40
3:C:171:GLY:C	3:C:174:LEU:N	2.79	0.40
3:C:188:THR:CG2	3:C:300:GLU:OE1	2.69	0.40
3:C:222:GLY:HA3	3:C:225:VAL:HG22	2.03	0.40
3:C:284:PHE:CB	29:C:1055:DGD:HB71	2.44	0.40
3:C:459:ILE:O	4:D:223:PHE:HA	2.21	0.40
22:C:1028:CLA:H62	22:C:1028:CLA:H41	1.42	0.40
22:C:1029:CLA:CMD	22:C:1031:CLA:CBB	2.99	0.40
4:D:66:SER:N	4:D:71:CYS:SG	2.94	0.40
24:D:1042:PQ9:H361	24:D:1042:PQ9:H32	1.77	0.40
7:H:2:ALA:O	7:H:3:ARG:HB2	2.21	0.40
7:H:19:GLY:O	7:H:20:LYS:C	2.65	0.40
9:J:15:THR:CG2	10:K:38:VAL:HG22	2.51	0.40
13:O:187:GLY:O	13:O:194:TYR:N	2.51	0.40
15:U:68:THR:HG23	15:U:71:GLN:H	1.80	0.40
16:V:62:ALA:O	31:V:1041:HEM:CBB	2.68	0.40
20:Z:48:ILE:O	20:Z:52:LEU:HD12	2.22	0.40
1:a:5076:ASN:ND2	11:l:5033:SER:C	2.80	0.40
1:a:5147:TYR:HA	23:a:6038:PHO:HMD2	2.03	0.40
1:a:5183:MET:O	1:a:5184:ILE:C	2.65	0.40
1:a:5228:THR:CG2	1:a:5230:THR:HG23	2.52	0.40
1:a:5233:ALA:C	4:d:5265:ARG:HH12	2.29	0.40
1:a:5291:SER:O	1:a:5294:ALA:HB3	2.22	0.40
22:a:6006:CLA:HMB2	23:d:6039:PHO:H152	2.04	0.40
2:b:5033:TRP:HH2	2:b:5062:VAL:CG2	2.34	0.40
2:b:5102:VAL:O	2:b:5106:LEU:HG	2.22	0.40
2:b:5135:LEU:H	2:b:5136:PRO:CD	2.35	0.40
2:b:5221:PRO:HA	2:b:5222:PRO:HD3	1.98	0.40
2:b:5223:GLN:HG2	7:h:5021:VAL:CG2	2.52	0.40
2:b:5269:GLY:O	2:b:5448:ARG:NH1	2.55	0.40
22:b:6010:CLA:H41	22:b:6010:CLA:H61	1.84	0.40
22:b:6023:CLA:C4D	22:b:6024:CLA:CMC	2.99	0.40
22:b:6024:CLA:HAA2	22:b:6024:CLA:CBD	2.51	0.40
28:b:6060:MGE:H7B1	28:b:6060:MGE:H3B1	1.95	0.40
3:c:5041:ARG:NH2	22:c:6035:CLA:HMD2	2.37	0.40
3:c:5356:MET:O	3:c:5358:PHE:N	2.55	0.40
3:c:5406:SER:CB	29:c:6056:DGD:HE1	2.39	0.40
4:d:5066:SER:N	4:d:5071:CYS:SG	2.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:5100:ASP:C	4:d:5102:THR:N	2.80	0.40
28:d:6062:MGE:O1B	28:d:6062:MGE:O1G	2.39	0.40
13:o:5099:ARG:HH11	13:o:5099:ARG:CG	2.34	0.40
13:o:5144:LEU:HD23	13:o:5144:LEU:N	2.31	0.40
13:o:5188:ARG:HD3	13:o:5212:ASN:OD1	2.21	0.40
13:o:5214:LYS:CE	13:o:5251:MET:HG3	2.39	0.40
15:u:5088:GLU:O	15:u:5089:THR:C	2.65	0.40
16:v:5094:ASN:O	16:v:5096:GLU:N	2.55	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%)	219 (66%)	75 (22%)	39 (12%)	0 5
1	a	333/344 (97%)	216 (65%)	76 (23%)	41 (12%)	0 4
2	B	486/488 (100%)	350 (72%)	86 (18%)	50 (10%)	0 7
2	b	486/488 (100%)	350 (72%)	86 (18%)	50 (10%)	0 7
3	C	445/447 (100%)	330 (74%)	80 (18%)	35 (8%)	1 12
3	c	445/447 (100%)	330 (74%)	80 (18%)	35 (8%)	1 12
4	D	338/340 (99%)	222 (66%)	78 (23%)	38 (11%)	0 6
4	d	338/340 (99%)	224 (66%)	77 (23%)	37 (11%)	0 7
5	E	80/83 (96%)	54 (68%)	17 (21%)	9 (11%)	0 5
5	e	80/83 (96%)	54 (68%)	17 (21%)	9 (11%)	0 5
6	F	33/44 (75%)	20 (61%)	9 (27%)	4 (12%)	0 4
6	f	33/44 (75%)	20 (61%)	9 (27%)	4 (12%)	0 4
7	H	62/64 (97%)	42 (68%)	12 (19%)	8 (13%)	0 4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
7	h	62/64 (97%)	42 (68%)	12 (19%)	8 (13%)	0 4
8	I	33/35 (94%)	21 (64%)	6 (18%)	6 (18%)	0 2
8	i	33/35 (94%)	21 (64%)	6 (18%)	6 (18%)	0 2
9	J	32/40 (80%)	29 (91%)	0	3 (9%)	0 10
9	j	32/40 (80%)	29 (91%)	0	3 (9%)	0 10
10	K	34/36 (94%)	23 (68%)	5 (15%)	6 (18%)	0 2
10	k	34/36 (94%)	17 (50%)	8 (24%)	9 (26%)	0 0
11	L	35/37 (95%)	25 (71%)	8 (23%)	2 (6%)	1 17
11	l	35/37 (95%)	25 (71%)	8 (23%)	2 (6%)	1 17
12	M	34/36 (94%)	23 (68%)	11 (32%)	0	100 100
12	m	34/36 (94%)	23 (68%)	11 (32%)	0	100 100
13	O	240/242 (99%)	172 (72%)	41 (17%)	27 (11%)	0 5
13	o	240/242 (99%)	172 (72%)	41 (17%)	27 (11%)	0 5
14	T	28/30 (93%)	22 (79%)	5 (18%)	1 (4%)	2 23
14	t	28/30 (93%)	22 (79%)	4 (14%)	2 (7%)	1 14
15	U	96/98 (98%)	70 (73%)	17 (18%)	9 (9%)	0 10
15	u	96/98 (98%)	70 (73%)	18 (19%)	8 (8%)	0 11
16	V	135/137 (98%)	100 (74%)	25 (18%)	10 (7%)	1 13
16	v	135/137 (98%)	99 (73%)	26 (19%)	10 (7%)	1 13
17	X	32/34 (94%)	29 (91%)	3 (9%)	0	100 100
17	x	32/34 (94%)	29 (91%)	3 (9%)	0	100 100
18	Y	26/28 (93%)	20 (77%)	1 (4%)	5 (19%)	0 2
18	y	26/28 (93%)	20 (77%)	1 (4%)	5 (19%)	0 2
20	Z	60/62 (97%)	44 (73%)	12 (20%)	4 (7%)	1 15
20	z	60/62 (97%)	44 (73%)	12 (20%)	4 (7%)	1 15
All	All	5124/5250 (98%)	3622 (71%)	986 (19%)	516 (10%)	0 8

All (516) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	60	ILE
1	A	61	ASP
1	A	100	ALA

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Mol	Chain	Res	Type
1	A	224	ILE
1	A	226	GLU
1	A	337	HIS
2	B	11	VAL
2	B	36	SER
2	B	48	SER
2	B	93	PHE
2	B	112	CYS
2	B	171	PRO
2	B	230	ARG
2	B	250	PHE
2	B	278	SER
2	B	322	GLY
2	B	327	THR
2	B	330	MET
2	B	361	ALA
2	B	407	ASN
2	B	484	PRO
2	B	487	SER
3	C	85	GLY
3	C	132	HIS
3	C	144	SER
3	C	146	PHE
3	C	150	ASP
3	C	191	PRO
3	C	274	TYR
3	C	275	SER
3	C	416	SER
3	C	452	ALA
4	D	21	TRP
4	D	25	ASP
4	D	80	THR
4	D	101	PHE
4	D	109	GLY
4	D	110	LEU
4	D	171	PRO
4	D	263	ASN
4	D	276	VAL
4	D	297	ASP
4	D	300	SER
4	D	351	ALA
6	F	23	VAL

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Mol	Chain	Res	Type
6	F	41	GLN
6	F	43	ILE
7	H	18	TYR
7	H	64	ALA
8	I	26	GLY
8	I	34	ARG
9	J	39	SER
11	L	6	ASN
13	O	46	PRO
13	O	60	SER
13	O	88	GLU
13	O	115	SER
13	O	166	THR
13	O	182	PHE
13	O	207	GLU
13	O	253	ALA
15	U	37	GLN
15	U	42	TYR
15	U	43	PRO
15	U	53	ALA
16	V	160	LYS
18	Y	20	ALA
18	Y	21	GLN
18	Y	43	ARG
18	Y	44	GLY
1	a	5060	ILE
1	a	5061	ASP
1	a	5100	ALA
1	a	5224	ILE
1	a	5226	GLU
1	a	5337	HIS
2	b	5011	VAL
2	b	5036	SER
2	b	5048	SER
2	b	5093	PHE
2	b	5112	CYS
2	b	5171	PRO
2	b	5230	ARG
2	b	5250	PHE
2	b	5278	SER
2	b	5322	GLY
2	b	5327	THR

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Mol	Chain	Res	Type
2	b	5330	MET
2	b	5361	ALA
2	b	5407	ASN
2	b	5484	PRO
2	b	5487	SER
3	c	5085	GLY
3	c	5132	HIS
3	c	5144	SER
3	c	5146	PHE
3	c	5150	ASP
3	c	5191	PRO
3	c	5274	TYR
3	c	5275	SER
3	c	5416	SER
3	c	5452	ALA
4	d	5021	TRP
4	d	5025	ASP
4	d	5080	THR
4	d	5101	PHE
4	d	5109	GLY
4	d	5110	LEU
4	d	5171	PRO
4	d	5263	ASN
4	d	5276	VAL
4	d	5297	ASP
4	d	5300	SER
4	d	5351	ALA
6	f	5023	VAL
6	f	5041	GLN
6	f	5043	ILE
7	h	5018	TYR
7	h	5064	ALA
8	i	5026	GLY
8	i	5034	ARG
9	j	5039	SER
10	k	5032	PHE
10	k	5034	ALA
11	l	5006	ASN
13	o	5046	PRO
13	o	5060	SER
13	o	5088	GLU
13	o	5115	SER

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Mol	Chain	Res	Type
13	o	5166	THR
13	o	5182	PHE
13	o	5207	GLU
13	o	5253	ALA
15	u	5037	GLN
15	u	5042	TYR
15	u	5043	PRO
15	u	5053	ALA
16	v	5160	LYS
18	y	5020	ALA
18	y	5021	GLN
18	y	5043	ARG
18	y	5044	GLY
1	A	27	ARG
1	A	49	VAL
1	A	122	GLY
1	A	141	PRO
1	A	258	LEU
1	A	309	ALA
1	A	310	LYS
1	A	334	ARG
2	B	12	LEU
2	B	13	ILE
2	B	56	TRP
2	B	58	GLN
2	B	103	LEU
2	B	114	HIS
2	B	126	PRO
2	B	165	GLY
2	B	307	GLU
2	B	321	LYS
2	B	358	ARG
2	B	373	LYS
2	B	415	PRO
3	C	145	SER
3	C	153	ASP
3	C	192	GLY
3	C	310	SER
3	C	398	HIS
4	D	34	GLY
4	D	79	SER
4	D	141	TYR

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Mol	Chain	Res	Type
4	D	182	LEU
4	D	275	PRO
4	D	307	GLU
4	D	327	ALA
5	E	57	ALA
5	E	60	GLN
5	E	78	THR
5	E	81	GLU
7	H	3	ARG
7	H	51	SER
8	I	25	SER
8	I	30	ARG
9	J	31	GLY
10	K	31	LEU
10	K	44	GLY
11	L	14	ARG
13	O	50	ASP
13	O	64	TYR
13	O	138	GLY
13	O	164	THR
13	O	175	PRO
13	O	179	THR
13	O	194	TYR
13	O	198	ILE
13	O	222	GLN
13	O	267	ALA
15	U	30	THR
15	U	52	ASN
15	U	60	ASP
15	U	79	LEU
16	V	59	PHE
16	V	63	CYS
16	V	97	GLY
20	Z	44	SER
20	Z	55	GLY
1	a	5027	ARG
1	a	5049	VAL
1	a	5122	GLY
1	a	5141	PRO
1	a	5258	LEU
1	a	5309	ALA
1	a	5310	LYS

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Mol	Chain	Res	Type
1	a	5334	ARG
1	a	5336	ALA
2	b	5012	LEU
2	b	5013	ILE
2	b	5056	TRP
2	b	5058	GLN
2	b	5103	LEU
2	b	5114	HIS
2	b	5126	PRO
2	b	5165	GLY
2	b	5307	GLU
2	b	5321	LYS
2	b	5358	ARG
2	b	5373	LYS
2	b	5415	PRO
3	c	5145	SER
3	c	5153	ASP
3	c	5192	GLY
3	c	5310	SER
3	c	5398	HIS
4	d	5034	GLY
4	d	5079	SER
4	d	5141	TYR
4	d	5182	LEU
4	d	5275	PRO
4	d	5307	GLU
4	d	5327	ALA
5	e	5057	ALA
5	e	5060	GLN
5	e	5078	THR
5	e	5081	GLU
7	h	5003	ARG
7	h	5051	SER
8	i	5025	SER
8	i	5030	ARG
9	j	5031	GLY
10	k	5033	PHE
10	k	5044	GLY
11	l	5014	ARG
13	o	5050	ASP
13	o	5064	TYR
13	o	5138	GLY

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Mol	Chain	Res	Type
13	o	5164	THR
13	o	5175	PRO
13	o	5179	THR
13	o	5194	TYR
13	o	5198	ILE
13	o	5222	GLN
13	o	5267	ALA
14	t	5012	CYS
15	u	5030	THR
15	u	5052	ASN
15	u	5060	ASP
15	u	5079	LEU
16	v	5059	PHE
16	v	5063	CYS
16	v	5097	GLY
20	z	5044	SER
20	z	5055	GLY
1	A	35	VAL
1	A	48	PHE
1	A	108	ASN
1	A	120	LEU
1	A	260	PHE
1	A	298	ASN
2	B	75	TRP
2	B	111	ALA
2	B	146	ALA
2	B	249	ALA
2	B	319	PRO
2	B	483	ASP
3	C	29	GLU
3	C	57	ALA
3	C	309	ALA
3	C	429	SER
3	C	430	HIS
4	D	19	ASP
4	D	22	LEU
4	D	111	TRP
4	D	183	LEU
4	D	192	THR
4	D	234	ALA
4	D	274	VAL
4	D	298	PHE

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Mol	Chain	Res	Type
4	D	326	ARG
5	E	52	PRO
5	E	75	GLN
5	E	76	VAL
5	E	77	GLU
7	H	17	GLU
7	H	35	MET
8	I	2	GLU
10	K	16	ALA
13	O	53	ARG
13	O	68	ARG
13	O	252	GLY
16	V	107	THR
16	V	125	ASP
16	V	155	LYS
20	Z	22	GLY
1	a	5035	VAL
1	a	5048	PHE
1	a	5108	ASN
1	a	5120	LEU
1	a	5260	PHE
1	a	5298	ASN
2	b	5075	TRP
2	b	5111	ALA
2	b	5146	ALA
2	b	5249	ALA
2	b	5319	PRO
2	b	5483	ASP
3	c	5029	GLU
3	c	5057	ALA
3	c	5309	ALA
3	c	5429	SER
3	c	5430	HIS
4	d	5019	ASP
4	d	5022	LEU
4	d	5111	TRP
4	d	5183	LEU
4	d	5192	THR
4	d	5234	ALA
4	d	5274	VAL
4	d	5298	PHE
4	d	5326	ARG

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Mol	Chain	Res	Type
5	e	5052	PRO
5	e	5075	GLN
5	e	5076	VAL
5	e	5077	GLU
7	h	5017	GLU
7	h	5035	MET
8	i	5002	GLU
10	k	5016	ALA
10	k	5031	LEU
10	k	5036	ALA
13	o	5053	ARG
13	o	5068	ARG
13	o	5252	GLY
16	v	5107	THR
16	v	5125	ASP
16	v	5155	LYS
20	z	5022	GLY
1	A	37	MET
1	A	81	ALA
1	A	150	PRO
1	A	172	MET
1	A	183	MET
1	A	268	SER
1	A	276	ALA
2	B	99	ALA
2	B	197	GLY
2	B	418	LYS
3	C	39	ASN
3	C	217	PRO
3	C	328	VAL
3	C	397	THR
4	D	20	ASP
4	D	27	PHE
4	D	90	LEU
4	D	113	PHE
4	D	268	HIS
4	D	299	ILE
4	D	343	GLU
6	F	14	PRO
13	O	212	ASN
16	V	47	LEU
1	a	5037	MET

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Mol	Chain	Res	Type
1	a	5081	ALA
1	a	5150	PRO
1	a	5172	MET
1	a	5183	MET
1	a	5268	SER
1	a	5276	ALA
2	b	5099	ALA
2	b	5197	GLY
2	b	5418	LYS
3	c	5039	ASN
3	c	5217	PRO
3	c	5328	VAL
3	c	5397	THR
4	d	5020	ASP
4	d	5027	PHE
4	d	5090	LEU
4	d	5113	PHE
4	d	5299	ILE
4	d	5343	GLU
6	f	5014	PRO
13	o	5212	ASN
16	v	5047	LEU
1	A	112	TYR
1	A	148	SER
1	A	237	TYR
1	A	259	ILE
2	B	100	HIS
2	B	231	MET
2	B	408	GLY
2	B	419	SER
3	C	306	GLY
3	C	472	LEU
4	D	251	ARG
5	E	48	GLY
10	K	36	ALA
13	O	143	PRO
13	O	192	SER
14	T	18	PHE
18	Y	45	ASN
1	a	5112	TYR
1	a	5148	SER
1	a	5237	TYR

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Mol	Chain	Res	Type
1	a	5259	ILE
2	b	5100	HIS
2	b	5231	MET
2	b	5419	SER
3	c	5306	GLY
3	c	5472	LEU
4	d	5251	ARG
5	e	5048	GLY
7	h	5028	THR
13	o	5143	PRO
13	o	5192	SER
14	t	5018	PHE
18	y	5045	ASN
1	A	38	ILE
1	A	39	PRO
1	A	63	ILE
1	A	227	THR
1	A	342	ASP
2	B	47	PRO
2	B	169	SER
2	B	186	GLY
4	D	292	ASN
7	H	28	THR
8	I	27	ASP
13	O	42	ALA
13	O	73	PRO
13	O	98	THR
16	V	71	ILE
1	a	5038	ILE
1	a	5039	PRO
1	a	5063	ILE
1	a	5227	THR
1	a	5342	ASP
2	b	5047	PRO
2	b	5169	SER
2	b	5408	GLY
4	d	5292	ASN
8	i	5027	ASP
13	o	5042	ALA
13	o	5073	PRO
13	o	5098	THR
16	v	5071	ILE

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Mol	Chain	Res	Type
1	A	90	GLY
1	A	184	ILE
2	B	234	ILE
2	B	414	PRO
3	C	183	GLY
3	C	233	VAL
3	C	380	ILE
10	K	25	LEU
1	a	5090	GLY
1	a	5184	ILE
2	b	5186	GLY
2	b	5234	ILE
2	b	5414	PRO
3	c	5183	GLY
3	c	5211	GLY
3	c	5233	VAL
3	c	5380	ILE
10	k	5025	LEU
2	B	191	ASN
2	B	219	VAL
2	B	264	PRO
3	C	101	PRO
3	C	102	GLY
3	C	208	VAL
3	C	211	GLY
7	H	40	VAL
9	J	35	GLY
20	Z	20	VAL
2	b	5191	ASN
2	b	5219	VAL
2	b	5264	PRO
3	c	5101	PRO
3	c	5102	GLY
3	c	5208	VAL
7	h	5040	VAL
9	j	5035	GLY
20	z	5020	VAL
3	C	205	ASP
16	V	76	PRO
3	c	5205	ASP
16	v	5076	PRO
4	D	195	PRO

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Mol	Chain	Res	Type
4	d	5195	PRO
1	A	248	ILE
3	C	190	ALA
10	K	43	VAL
15	U	74	ILE
1	a	5236	GLY
1	a	5248	ILE
3	c	5190	ALA
10	k	5043	VAL

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%)	213 (79%)	57 (21%)	1 7
1	a	270/279 (97%)	213 (79%)	57 (21%)	1 7
2	B	388/388 (100%)	315 (81%)	73 (19%)	1 11
2	b	388/388 (100%)	315 (81%)	73 (19%)	1 11
3	C	349/349 (100%)	276 (79%)	73 (21%)	1 7
3	c	349/349 (100%)	276 (79%)	73 (21%)	1 7
4	D	275/275 (100%)	235 (86%)	40 (14%)	3 16
4	d	275/275 (100%)	235 (86%)	40 (14%)	3 16
5	E	72/73 (99%)	57 (79%)	15 (21%)	1 7
5	e	72/73 (99%)	57 (79%)	15 (21%)	1 7
6	F	29/38 (76%)	22 (76%)	7 (24%)	1 5
6	f	29/38 (76%)	22 (76%)	7 (24%)	1 5
7	H	54/54 (100%)	45 (83%)	9 (17%)	2 13
7	h	54/54 (100%)	45 (83%)	9 (17%)	2 13
8	I	32/32 (100%)	24 (75%)	8 (25%)	0 4
8	i	32/32 (100%)	24 (75%)	8 (25%)	0 4
9	J	24/28 (86%)	18 (75%)	6 (25%)	0 4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
9	j	24/28 (86%)	18 (75%)	6 (25%)	0 4
10	K	29/29 (100%)	21 (72%)	8 (28%)	0 3
10	k	29/29 (100%)	23 (79%)	6 (21%)	1 7
11	L	35/35 (100%)	29 (83%)	6 (17%)	2 13
11	l	35/35 (100%)	29 (83%)	6 (17%)	2 13
12	M	33/33 (100%)	28 (85%)	5 (15%)	3 15
12	m	33/33 (100%)	28 (85%)	5 (15%)	3 15
13	O	206/206 (100%)	170 (82%)	36 (18%)	2 13
13	o	206/206 (100%)	170 (82%)	36 (18%)	2 13
14	T	27/27 (100%)	24 (89%)	3 (11%)	6 23
14	t	27/27 (100%)	24 (89%)	3 (11%)	6 23
15	U	85/85 (100%)	74 (87%)	11 (13%)	4 19
15	u	85/85 (100%)	75 (88%)	10 (12%)	5 21
16	V	117/117 (100%)	96 (82%)	21 (18%)	2 12
16	v	117/117 (100%)	97 (83%)	20 (17%)	2 13
17	X	27/27 (100%)	16 (59%)	11 (41%)	0 0
17	x	27/27 (100%)	16 (59%)	11 (41%)	0 0
18	Y	21/21 (100%)	11 (52%)	10 (48%)	0 0
18	y	21/21 (100%)	11 (52%)	10 (48%)	0 0
20	Z	52/52 (100%)	41 (79%)	11 (21%)	1 7
20	z	52/52 (100%)	41 (79%)	11 (21%)	1 7
All	All	4250/4296 (99%)	3434 (81%)	816 (19%)	1 10

All (816) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	12	ASN
1	A	14	TRP
1	A	18	CYS
1	A	24	THR
1	A	28	LEU
1	A	30	VAL
1	A	35	VAL
1	A	36	ILE
1	A	40	THR

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Mol	Chain	Res	Type
1	A	42	LEU
1	A	63	ILE
1	A	70	SER
1	A	78	ILE
1	A	79	THR
1	A	83	VAL
1	A	101	SER
1	A	102	LEU
1	A	114	LEU
1	A	119	PHE
1	A	126	TYR
1	A	127	MET
1	A	131	TRP
1	A	142	TRP
1	A	150	PRO
1	A	151	LEU
1	A	159	LEU
1	A	184	ILE
1	A	192	ILE
1	A	193	LEU
1	A	197	PHE
1	A	199	GLN
1	A	206	PHE
1	A	218	LEU
1	A	223	LEU
1	A	224	ILE
1	A	225	ARG
1	A	230	THR
1	A	234	ASN
1	A	235	TYR
1	A	243	GLU
1	A	245	THR
1	A	246	TYR
1	A	254	TYR
1	A	267	ASN
1	A	268	SER
1	A	271	LEU
1	A	278	TRP
1	A	281	VAL
1	A	290	ILE
1	A	297	LEU
1	A	298	ASN

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Mol	Chain	Res	Type
1	A	303	ASN
1	A	313	VAL
1	A	317	TRP
1	A	325	ASN
1	A	331	MET
1	A	335	ASN
2	B	6	TYR
2	B	7	ARG
2	B	8	VAL
2	B	12	LEU
2	B	13	ILE
2	B	27	THR
2	B	40	TYR
2	B	49	ASP
2	B	62	VAL
2	B	66	MET
2	B	68	ARG
2	B	69	LEU
2	B	71	VAL
2	B	75	TRP
2	B	81	THR
2	B	83	GLU
2	B	86	ILE
2	B	90	PHE
2	B	98	LEU
2	B	102	VAL
2	B	103	LEU
2	B	113	TRP
2	B	120	LEU
2	B	122	LEU
2	B	127	ARG
2	B	133	LEU
2	B	135	LEU
2	B	143	LEU
2	B	156	PHE
2	B	174	LEU
2	B	185	TRP
2	B	215	PHE
2	B	230	ARG
2	B	246	PHE
2	B	247	PHE
2	B	262	THR

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Mol	Chain	Res	Type
2	B	265	ILE
2	B	266	GLU
2	B	271	THR
2	B	274	GLN
2	B	282	GLN
2	B	297	THR
2	B	321	LYS
2	B	334	ASP
2	B	338	GLN
2	B	350	GLU
2	B	355	PHE
2	B	357	ARG
2	B	359	MET
2	B	363	PHE
2	B	368	VAL
2	B	372	ASP
2	B	373	LYS
2	B	374	ASN
2	B	377	VAL
2	B	385	ARG
2	B	389	LYS
2	B	390	TYR
2	B	395	GLN
2	B	402	TYR
2	B	406	LEU
2	B	423	LYS
2	B	425	ILE
2	B	429	ILE
2	B	433	ASP
2	B	437	LEU
2	B	463	PHE
2	B	473	THR
2	B	475	PHE
2	B	476	ARG
2	B	482	ILE
2	B	485	GLU
2	B	489	GLU
3	C	27	ASP
3	C	31	SER
3	C	33	PHE
3	C	43	ILE
3	C	45	LEU

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Mol	Chain	Res	Type
3	C	46	SER
3	C	48	LYS
3	C	49	LEU
3	C	50	LEU
3	C	56	HIS
3	C	67	MET
3	C	78	GLU
3	C	87	ILE
3	C	88	LEU
3	C	89	ILE
3	C	92	ILE
3	C	101	PRO
3	C	104	GLU
3	C	105	VAL
3	C	106	VAL
3	C	108	THR
3	C	117	VAL
3	C	122	SER
3	C	125	LEU
3	C	134	ILE
3	C	141	GLU
3	C	146	PHE
3	C	149	TYR
3	C	152	LYS
3	C	156	LYS
3	C	160	ILE
3	C	161	LEU
3	C	166	ILE
3	C	167	VAL
3	C	170	ILE
3	C	174	LEU
3	C	175	LEU
3	C	191	PRO
3	C	223	TRP
3	C	228	ASN
3	C	229	ASN
3	C	240	ILE
3	C	244	CYS
3	C	257	PHE
3	C	264	PHE
3	C	265	ILE
3	C	272	LEU

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Mol	Chain	Res	Type
3	C	276	LEU
3	C	282	MET
3	C	288	CYS
3	C	295	THR
3	C	318	LEU
3	C	324	LEU
3	C	328	VAL
3	C	334	PRO
3	C	335	THR
3	C	340	TYR
3	C	343	ARG
3	C	348	GLU
3	C	350	ILE
3	C	381	LYS
3	C	416	SER
3	C	417	VAL
3	C	418	ASN
3	C	419	PHE
3	C	420	VAL
3	C	436	PHE
3	C	441	HIS
3	C	443	TRP
3	C	456	GLU
3	C	467	LEU
3	C	472	LEU
3	C	473	ASP
4	D	14	TRP
4	D	17	ILE
4	D	24	ARG
4	D	25	ASP
4	D	30	VAL
4	D	32	TRP
4	D	36	LEU
4	D	37	LEU
4	D	43	LEU
4	D	50	THR
4	D	53	THR
4	D	88	SER
4	D	89	LEU
4	D	102	THR
4	D	138	VAL
4	D	178	ILE

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Mol	Chain	Res	Type
4	D	180	ARG
4	D	183	LEU
4	D	201	VAL
4	D	213	ILE
4	D	218	VAL
4	D	222	LEU
4	D	225	ASP
4	D	232	PHE
4	D	247	VAL
4	D	250	ASN
4	D	265	ARG
4	D	272	LEU
4	D	277	THR
4	D	282	SER
4	D	287	VAL
4	D	295	SER
4	D	298	PHE
4	D	311	PHE
4	D	316	THR
4	D	320	LEU
4	D	337	GLU
4	D	338	ASN
4	D	345	VAL
4	D	352	LEU
5	E	15	THR
5	E	17	VAL
5	E	24	SER
5	E	27	ILE
5	E	32	ILE
5	E	39	SER
5	E	42	LEU
5	E	45	ASP
5	E	52	PRO
5	E	58	GLN
5	E	60	GLN
5	E	63	ILE
5	E	65	LEU
5	E	75	GLN
5	E	76	VAL
6	F	11	VAL
6	F	17	THR
6	F	19	ARG

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Mol	Chain	Res	Type
6	F	24	HIS
6	F	32	PHE
6	F	43	ILE
6	F	45	ARG
7	H	4	ARG
7	H	17	GLU
7	H	27	THR
7	H	35	MET
7	H	39	LEU
7	H	43	LEU
7	H	44	ILE
7	H	52	THR
7	H	53	LEU
8	I	6	ILE
8	I	8	VAL
8	I	10	ILE
8	I	12	VAL
8	I	14	PHE
8	I	20	VAL
8	I	23	PHE
8	I	33	LYS
9	J	10	LEU
9	J	11	TRP
9	J	12	ILE
9	J	21	VAL
9	J	25	VAL
9	J	38	SER
10	K	12	PRO
10	K	17	ILE
10	K	21	LEU
10	K	23	ASP
10	K	33	PHE
10	K	38	VAL
10	K	39	VAL
10	K	40	GLN
11	L	8	GLN
11	L	11	GLU
11	L	15	THR
11	L	17	LEU
11	L	26	VAL
11	L	30	LEU
12	M	3	VAL

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Mol	Chain	Res	Type
12	M	11	THR
12	M	17	VAL
12	M	25	LEU
12	M	28	GLN
13	O	41	LEU
13	O	46	PRO
13	O	47	THR
13	O	49	ASP
13	O	58	ILE
13	O	69	LEU
13	O	73	PRO
13	O	83	LYS
13	O	84	ASN
13	O	85	LYS
13	O	86	ARG
13	O	87	GLN
13	O	90	GLU
13	O	91	PHE
13	O	99	ARG
13	O	101	THR
13	O	102	THR
13	O	113	VAL
13	O	116	ASP
13	O	125	ASP
13	O	130	GLN
13	O	136	MET
13	O	140	GLU
13	O	141	ARG
13	O	160	THR
13	O	173	ASN
13	O	176	SER
13	O	181	ASN
13	O	183	LEU
13	O	186	LYS
13	O	194	TYR
13	O	195	ASP
13	O	213	VAL
13	O	223	ILE
13	O	237	ILE
13	O	264	VAL
14	T	2	GLU
14	T	4	ILE

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Mol	Chain	Res	Type
14	T	12	CYS
15	U	9	LEU
15	U	31	ASN
15	U	60	ASP
15	U	63	ASN
15	U	64	ILE
15	U	68	THR
15	U	69	GLU
15	U	79	LEU
15	U	82	PHE
15	U	87	VAL
15	U	89	THR
16	V	34	LEU
16	V	38	LEU
16	V	44	THR
16	V	45	ILE
16	V	47	LEU
16	V	49	GLU
16	V	63	CYS
16	V	65	SER
16	V	66	CYS
16	V	67	HIS
16	V	68	VAL
16	V	81	ARG
16	V	83	GLU
16	V	92	ARG
16	V	103	LYS
16	V	106	THR
16	V	114	ILE
16	V	119	PRO
16	V	126	ILE
16	V	151	ILE
16	V	156	TRP
17	X	12	ILE
17	X	13	THR
17	X	15	SER
17	X	24	LEU
17	X	29	VAL
17	X	32	LEU
17	X	33	THR
17	X	36	VAL
17	X	37	LEU

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Mol	Chain	Res	Type
17	X	41	SER
17	X	42	GLN
18	Y	22	LEU
18	Y	25	ILE
18	Y	28	ILE
18	Y	30	ILE
18	Y	35	ILE
18	Y	36	ILE
18	Y	41	VAL
18	Y	42	ARG
18	Y	43	ARG
18	Y	45	ASN
20	Z	1	MET
20	Z	2	THR
20	Z	4	LEU
20	Z	6	GLN
20	Z	15	LEU
20	Z	24	PRO
20	Z	27	TYR
20	Z	32	ASP
20	Z	38	GLN
20	Z	50	LEU
20	Z	60	PHE
1	a	5012	ASN
1	a	5014	TRP
1	a	5018	CYS
1	a	5024	THR
1	a	5028	LEU
1	a	5030	VAL
1	a	5035	VAL
1	a	5036	ILE
1	a	5040	THR
1	a	5042	LEU
1	a	5063	ILE
1	a	5070	SER
1	a	5078	ILE
1	a	5079	THR
1	a	5083	VAL
1	a	5101	SER
1	a	5102	LEU
1	a	5114	LEU
1	a	5119	PHE

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Mol	Chain	Res	Type
1	a	5126	TYR
1	a	5127	MET
1	a	5131	TRP
1	a	5142	TRP
1	a	5150	PRO
1	a	5151	LEU
1	a	5159	LEU
1	a	5184	ILE
1	a	5192	ILE
1	a	5193	LEU
1	a	5197	PHE
1	a	5199	GLN
1	a	5206	PHE
1	a	5218	LEU
1	a	5223	LEU
1	a	5224	ILE
1	a	5225	ARG
1	a	5230	THR
1	a	5234	ASN
1	a	5235	TYR
1	a	5243	GLU
1	a	5245	THR
1	a	5246	TYR
1	a	5267	ASN
1	a	5268	SER
1	a	5271	LEU
1	a	5278	TRP
1	a	5279	ARG
1	a	5281	VAL
1	a	5290	ILE
1	a	5297	LEU
1	a	5298	ASN
1	a	5303	ASN
1	a	5313	VAL
1	a	5317	TRP
1	a	5325	ASN
1	a	5331	MET
1	a	5335	ASN
2	b	5006	TYR
2	b	5007	ARG
2	b	5008	VAL
2	b	5012	LEU

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Mol	Chain	Res	Type
2	b	5013	ILE
2	b	5027	THR
2	b	5040	TYR
2	b	5049	ASP
2	b	5062	VAL
2	b	5066	MET
2	b	5068	ARG
2	b	5069	LEU
2	b	5071	VAL
2	b	5075	TRP
2	b	5081	THR
2	b	5083	GLU
2	b	5086	ILE
2	b	5090	PHE
2	b	5098	LEU
2	b	5102	VAL
2	b	5103	LEU
2	b	5113	TRP
2	b	5120	LEU
2	b	5122	LEU
2	b	5127	ARG
2	b	5133	LEU
2	b	5135	LEU
2	b	5143	LEU
2	b	5156	PHE
2	b	5174	LEU
2	b	5185	TRP
2	b	5215	PHE
2	b	5230	ARG
2	b	5246	PHE
2	b	5247	PHE
2	b	5262	THR
2	b	5265	ILE
2	b	5266	GLU
2	b	5271	THR
2	b	5274	GLN
2	b	5282	GLN
2	b	5297	THR
2	b	5321	LYS
2	b	5334	ASP
2	b	5338	GLN
2	b	5350	GLU

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Mol	Chain	Res	Type
2	b	5355	PHE
2	b	5357	ARG
2	b	5359	MET
2	b	5363	PHE
2	b	5368	VAL
2	b	5372	ASP
2	b	5373	LYS
2	b	5374	ASN
2	b	5377	VAL
2	b	5385	ARG
2	b	5389	LYS
2	b	5390	TYR
2	b	5395	GLN
2	b	5402	TYR
2	b	5406	LEU
2	b	5423	LYS
2	b	5425	ILE
2	b	5429	ILE
2	b	5433	ASP
2	b	5437	LEU
2	b	5463	PHE
2	b	5473	THR
2	b	5475	PHE
2	b	5476	ARG
2	b	5482	ILE
2	b	5485	GLU
2	b	5489	GLU
3	c	5027	ASP
3	c	5031	SER
3	c	5033	PHE
3	c	5042	LEU
3	c	5043	ILE
3	c	5045	LEU
3	c	5046	SER
3	c	5048	LYS
3	c	5049	LEU
3	c	5050	LEU
3	c	5056	HIS
3	c	5067	MET
3	c	5078	GLU
3	c	5088	LEU
3	c	5089	ILE

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Mol	Chain	Res	Type
3	c	5092	ILE
3	c	5101	PRO
3	c	5104	GLU
3	c	5105	VAL
3	c	5106	VAL
3	c	5108	THR
3	c	5117	VAL
3	c	5122	SER
3	c	5125	LEU
3	c	5134	ILE
3	c	5141	GLU
3	c	5146	PHE
3	c	5149	TYR
3	c	5152	LYS
3	c	5156	LYS
3	c	5160	ILE
3	c	5161	LEU
3	c	5166	ILE
3	c	5167	VAL
3	c	5170	ILE
3	c	5174	LEU
3	c	5175	LEU
3	c	5191	PRO
3	c	5223	TRP
3	c	5228	ASN
3	c	5229	ASN
3	c	5240	ILE
3	c	5244	CYS
3	c	5257	PHE
3	c	5264	PHE
3	c	5265	ILE
3	c	5272	LEU
3	c	5276	LEU
3	c	5282	MET
3	c	5288	CYS
3	c	5295	THR
3	c	5318	LEU
3	c	5324	LEU
3	c	5328	VAL
3	c	5334	PRO
3	c	5335	THR
3	c	5340	TYR

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Mol	Chain	Res	Type
3	c	5343	ARG
3	c	5348	GLU
3	c	5350	ILE
3	c	5381	LYS
3	c	5416	SER
3	c	5417	VAL
3	c	5418	ASN
3	c	5419	PHE
3	c	5420	VAL
3	c	5436	PHE
3	c	5441	HIS
3	c	5443	TRP
3	c	5456	GLU
3	c	5467	LEU
3	c	5472	LEU
3	c	5473	ASP
4	d	5014	TRP
4	d	5017	ILE
4	d	5024	ARG
4	d	5025	ASP
4	d	5030	VAL
4	d	5032	TRP
4	d	5036	LEU
4	d	5037	LEU
4	d	5043	LEU
4	d	5050	THR
4	d	5053	THR
4	d	5088	SER
4	d	5089	LEU
4	d	5102	THR
4	d	5138	VAL
4	d	5178	ILE
4	d	5180	ARG
4	d	5183	LEU
4	d	5201	VAL
4	d	5213	ILE
4	d	5218	VAL
4	d	5222	LEU
4	d	5225	ASP
4	d	5232	PHE
4	d	5247	VAL
4	d	5250	ASN

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Mol	Chain	Res	Type
4	d	5265	ARG
4	d	5272	LEU
4	d	5277	THR
4	d	5282	SER
4	d	5287	VAL
4	d	5295	SER
4	d	5298	PHE
4	d	5311	PHE
4	d	5316	THR
4	d	5320	LEU
4	d	5337	GLU
4	d	5338	ASN
4	d	5345	VAL
4	d	5352	LEU
5	e	5015	THR
5	e	5017	VAL
5	e	5024	SER
5	e	5027	ILE
5	e	5032	ILE
5	e	5039	SER
5	e	5042	LEU
5	e	5045	ASP
5	e	5052	PRO
5	e	5058	GLN
5	e	5060	GLN
5	e	5063	ILE
5	e	5065	LEU
5	e	5075	GLN
5	e	5076	VAL
6	f	5011	VAL
6	f	5017	THR
6	f	5019	ARG
6	f	5024	HIS
6	f	5032	PHE
6	f	5043	ILE
6	f	5045	ARG
7	h	5004	ARG
7	h	5017	GLU
7	h	5027	THR
7	h	5035	MET
7	h	5039	LEU
7	h	5043	LEU

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Mol	Chain	Res	Type
7	h	5044	ILE
7	h	5052	THR
7	h	5053	LEU
8	i	5006	ILE
8	i	5008	VAL
8	i	5010	ILE
8	i	5012	VAL
8	i	5014	PHE
8	i	5020	VAL
8	i	5023	PHE
8	i	5033	LYS
9	j	5010	LEU
9	j	5011	TRP
9	j	5012	ILE
9	j	5021	VAL
9	j	5025	VAL
9	j	5038	SER
10	k	5012	PRO
10	k	5017	ILE
10	k	5021	LEU
10	k	5023	ASP
10	k	5033	PHE
10	k	5038	VAL
11	l	5008	GLN
11	l	5011	GLU
11	l	5015	THR
11	l	5017	LEU
11	l	5026	VAL
11	l	5030	LEU
12	m	5003	VAL
12	m	5011	THR
12	m	5017	VAL
12	m	5025	LEU
12	m	5028	GLN
13	o	5041	LEU
13	o	5046	PRO
13	o	5047	THR
13	o	5049	ASP
13	o	5058	ILE
13	o	5069	LEU
13	o	5073	PRO
13	o	5083	LYS

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Mol	Chain	Res	Type
13	o	5084	ASN
13	o	5085	LYS
13	o	5086	ARG
13	o	5087	GLN
13	o	5090	GLU
13	o	5091	PHE
13	o	5099	ARG
13	o	5101	THR
13	o	5102	THR
13	o	5113	VAL
13	o	5116	ASP
13	o	5125	ASP
13	o	5130	GLN
13	o	5136	MET
13	o	5140	GLU
13	o	5141	ARG
13	o	5160	THR
13	o	5173	ASN
13	o	5176	SER
13	o	5181	ASN
13	o	5183	LEU
13	o	5186	LYS
13	o	5194	TYR
13	o	5195	ASP
13	o	5213	VAL
13	o	5223	ILE
13	o	5237	ILE
13	o	5264	VAL
14	t	5002	GLU
14	t	5004	ILE
14	t	5012	CYS
15	u	5009	LEU
15	u	5031	ASN
15	u	5060	ASP
15	u	5064	ILE
15	u	5068	THR
15	u	5069	GLU
15	u	5079	LEU
15	u	5082	PHE
15	u	5087	VAL
15	u	5089	THR
16	v	5034	LEU

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Mol	Chain	Res	Type
16	v	5038	LEU
16	v	5044	THR
16	v	5045	ILE
16	v	5047	LEU
16	v	5049	GLU
16	v	5063	CYS
16	v	5065	SER
16	v	5066	CYS
16	v	5067	HIS
16	v	5068	VAL
16	v	5081	ARG
16	v	5083	GLU
16	v	5092	ARG
16	v	5106	THR
16	v	5114	ILE
16	v	5119	PRO
16	v	5126	ILE
16	v	5151	ILE
16	v	5156	TRP
17	x	5012	ILE
17	x	5013	THR
17	x	5015	SER
17	x	5024	LEU
17	x	5029	VAL
17	x	5032	LEU
17	x	5033	THR
17	x	5036	VAL
17	x	5037	LEU
17	x	5041	SER
17	x	5042	GLN
18	y	5022	LEU
18	y	5025	ILE
18	y	5028	ILE
18	y	5030	ILE
18	y	5035	ILE
18	y	5036	ILE
18	y	5041	VAL
18	y	5042	ARG
18	y	5043	ARG
18	y	5045	ASN
20	z	5001	MET
20	z	5002	THR

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Mol	Chain	Res	Type
20	z	5004	LEU
20	z	5006	GLN
20	z	5015	LEU
20	z	5024	PRO
20	z	5027	TYR
20	z	5032	ASP
20	z	5038	GLN
20	z	5050	LEU
20	z	5060	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (202) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	12	ASN
1	A	19	ASN
1	A	26	ASN
1	A	75	ASN
1	A	87	ASN
1	A	92	HIS
1	A	118	HIS
1	A	181	ASN
1	A	198	HIS
1	A	199	GLN
1	A	241	GLN
1	A	247	ASN
1	A	267	ASN
1	A	272	HIS
1	A	296	ASN
1	A	298	ASN
1	A	303	ASN
1	A	312	ASN
1	A	322	ASN
1	A	325	ASN
1	A	337	HIS
2	B	23	HIS
2	B	53	ASN
2	B	58	GLN
2	B	114	HIS
2	B	157	HIS
2	B	191	ASN
2	B	201	HIS
2	B	223	GLN

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Mol	Chain	Res	Type
2	B	233	ASN
2	B	274	GLN
2	B	281	GLN
2	B	282	GLN
2	B	318	ASN
2	B	331	ASN
2	B	338	GLN
2	B	374	ASN
2	B	395	GLN
2	B	409	GLN
3	C	56	HIS
3	C	91	HIS
3	C	155	ASN
3	C	201	ASN
3	C	229	ASN
3	C	294	ASN
3	C	322	GLN
3	C	327	ASN
3	C	332	GLN
3	C	378	ASN
3	C	382	ASN
3	C	415	ASN
4	D	83	ASN
4	D	98	GLN
4	D	106	GLN
4	D	186	GLN
4	D	190	ASN
4	D	197	HIS
4	D	214	HIS
4	D	220	ASN
4	D	224	GLN
4	D	239	GLN
4	D	255	GLN
4	D	292	ASN
4	D	301	GLN
4	D	322	ASN
4	D	332	GLN
4	D	334	GLN
5	E	75	GLN
6	F	24	HIS
7	H	15	ASN
8	I	31	ASN

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Mol	Chain	Res	Type
10	K	40	GLN
11	L	4	ASN
11	L	6	ASN
11	L	8	GLN
11	L	37	ASN
12	M	28	GLN
12	M	32	GLN
13	O	62	GLN
13	O	72	GLN
13	O	84	ASN
13	O	114	ASN
13	O	150	ASN
13	O	173	ASN
13	O	254	HIS
13	O	262	GLN
15	U	28	ASN
15	U	29	ASN
15	U	31	ASN
15	U	78	ASN
15	U	81	HIS
15	U	99	ASN
16	V	39	ASN
16	V	51	GLN
16	V	60	GLN
16	V	67	HIS
16	V	94	ASN
16	V	104	ASN
16	V	112	GLN
18	Y	45	ASN
20	Z	6	GLN
20	Z	31	GLN
20	Z	38	GLN
1	a	5012	ASN
1	a	5019	ASN
1	a	5026	ASN
1	a	5075	ASN
1	a	5087	ASN
1	a	5092	HIS
1	a	5118	HIS
1	a	5181	ASN
1	a	5198	HIS
1	a	5199	GLN

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Mol	Chain	Res	Type
1	a	5241	GLN
1	a	5247	ASN
1	a	5267	ASN
1	a	5296	ASN
1	a	5298	ASN
1	a	5303	ASN
1	a	5312	ASN
1	a	5322	ASN
1	a	5325	ASN
2	b	5023	HIS
2	b	5053	ASN
2	b	5114	HIS
2	b	5157	HIS
2	b	5191	ASN
2	b	5201	HIS
2	b	5223	GLN
2	b	5233	ASN
2	b	5274	GLN
2	b	5281	GLN
2	b	5282	GLN
2	b	5318	ASN
2	b	5331	ASN
2	b	5338	GLN
2	b	5374	ASN
2	b	5395	GLN
3	c	5056	HIS
3	c	5091	HIS
3	c	5155	ASN
3	c	5201	ASN
3	c	5229	ASN
3	c	5294	ASN
3	c	5322	GLN
3	c	5327	ASN
3	c	5332	GLN
3	c	5378	ASN
3	c	5382	ASN
3	c	5415	ASN
4	d	5083	ASN
4	d	5098	GLN
4	d	5106	GLN
4	d	5186	GLN
4	d	5190	ASN

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Mol	Chain	Res	Type
4	d	5197	HIS
4	d	5220	ASN
4	d	5224	GLN
4	d	5239	GLN
4	d	5255	GLN
4	d	5292	ASN
4	d	5301	GLN
4	d	5322	ASN
4	d	5332	GLN
4	d	5334	GLN
4	d	5350	ASN
5	e	5075	GLN
6	f	5024	HIS
7	h	5015	ASN
8	i	5031	ASN
10	k	5040	GLN
11	l	5004	ASN
11	l	5006	ASN
11	l	5008	GLN
11	l	5037	ASN
12	m	5028	GLN
12	m	5032	GLN
13	o	5062	GLN
13	o	5072	GLN
13	o	5084	ASN
13	o	5150	ASN
13	o	5158	ASN
13	o	5173	ASN
13	o	5254	HIS
13	o	5262	GLN
15	u	5028	ASN
15	u	5029	ASN
15	u	5031	ASN
15	u	5078	ASN
15	u	5081	HIS
15	u	5099	ASN
16	v	5039	ASN
16	v	5051	GLN
16	v	5060	GLN
16	v	5067	HIS
16	v	5094	ASN
16	v	5104	ASN

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Mol	Chain	Res	Type
16	v	5112	GLN
18	y	5045	ASN
20	z	5006	GLN
20	z	5031	GLN
20	z	5038	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 136 ligands modelled in this entry, 12 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	$\#\|Z\| > 2$
22	CLA	C	1031	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	A	1006	-	69,73,73	1.93	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	a	6007	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	b	6011	2	69,73,73	1.92	17 (24%)	82,113,113	2.48	30 (36%)
23	PHO	D	1039	-	58,69,69	2.94	13 (22%)	55,99,99	3.52	19 (34%)
24	PQ9	A	1043	-	45,45,45	0.68	2 (4%)	56,57,57	1.79	17 (30%)
25	BCR	B	1045	-	41,41,41	4.02	17 (41%)	56,56,56	6.17	21 (37%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
25	BCR	A	1044	-	41,41,41	3.93	16 (39%)	56,56,56	7.23	28 (50%)
31	HEM	F	1040	6,5	50,50,50	1.87	8 (16%)	67,82,82	1.34	5 (7%)
22	CLA	b	6021	2	69,73,73	1.92	16 (23%)	82,113,113	2.49	30 (36%)
22	CLA	B	1019	2	69,73,73	1.93	16 (23%)	82,113,113	2.48	28 (34%)
25	BCR	T	6048	-	41,41,41	4.01	17 (41%)	56,56,56	6.30	27 (48%)
22	CLA	B	1022	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
29	DGD	C	1055	-	67,67,67	0.86	2 (2%)	81,81,81	0.91	3 (3%)
25	BCR	d	6050	-	41,41,41	4.02	17 (41%)	56,56,56	5.17	21 (37%)
22	CLA	C	1026	3	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
25	BCR	C	1052	-	41,41,41	4.02	17 (41%)	56,56,56	6.97	24 (42%)
29	DGD	C	1056	-	67,67,67	0.85	2 (2%)	81,81,81	0.91	3 (3%)
23	PHO	a	6038	-	58,69,69	2.94	13 (22%)	55,99,99	3.53	19 (34%)
22	CLA	B	1009	-	69,73,73	1.92	15 (21%)	82,113,113	2.47	29 (35%)
22	CLA	D	1008	4	69,73,73	1.92	17 (24%)	82,113,113	2.48	29 (35%)
25	BCR	D	1050	-	41,41,41	4.02	17 (41%)	56,56,56	5.17	22 (39%)
25	BCR	z	6053	-	41,41,41	4.03	17 (41%)	56,56,56	6.02	22 (39%)
22	CLA	b	6022	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	B	1023	2	69,73,73	1.91	16 (23%)	82,113,113	2.48	29 (35%)
22	CLA	b	6024	2	69,73,73	1.94	16 (23%)	82,113,113	2.47	28 (34%)
22	CLA	b	6014	-	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
22	CLA	c	6030	3	69,73,73	1.91	17 (24%)	82,113,113	2.48	29 (35%)
22	CLA	C	1032	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	H	1017	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	C	1025	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	a	6003	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	b	6015	-	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
22	CLA	b	6012	-	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
23	PHO	d	6039	-	58,69,69	2.94	13 (22%)	55,99,99	3.52	19 (34%)
28	MGE	b	6060	-	48,48,48	0.96	2 (4%)	56,56,56	1.02	3 (5%)
22	CLA	B	1011	2	69,73,73	1.92	16 (23%)	82,113,113	2.47	30 (36%)
22	CLA	A	1003	-	69,73,73	1.93	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	c	6028	-	69,73,73	1.93	16 (23%)	82,113,113	2.47	28 (34%)
25	BCR	t	1046	-	41,41,41	3.96	17 (41%)	56,56,56	6.06	26 (46%)
25	BCR	Z	1053	-	41,41,41	4.03	17 (41%)	56,56,56	6.02	21 (37%)
22	CLA	c	6031	3	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	$\#\|Z\|>2$
22	CLA	a	6006	-	69,73,73	1.93	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	c	6029	3	69,73,73	1.91	16 (23%)	82,113,113	2.48	29 (35%)
22	CLA	c	6026	3	69,73,73	1.93	15 (21%)	82,113,113	2.48	28 (34%)
24	PQ9	a	6043	-	45,45,45	0.69	2 (4%)	56,57,57	1.79	17 (30%)
22	CLA	d	6005	-	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
22	CLA	c	6025	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
25	BCR	b	6047	-	41,41,41	4.02	17 (41%)	56,56,56	5.46	27 (48%)
31	HEM	V	1041	16	50,50,50	1.88	8 (16%)	67,82,82	1.35	5 (7%)
29	DGD	c	6056	-	67,67,67	0.85	2 (2%)	81,81,81	0.91	3 (3%)
22	CLA	b	6009	-	69,73,73	1.91	15 (21%)	82,113,113	2.47	29 (35%)
22	CLA	C	1037	3	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
28	MGE	D	1059	-	48,48,48	0.97	2 (4%)	56,56,56	1.02	3 (5%)
22	CLA	A	1007	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
25	BCR	C	1054	-	41,41,41	4.02	16 (39%)	56,56,56	5.42	21 (37%)
22	CLA	d	6008	4	69,73,73	1.92	18 (26%)	82,113,113	2.48	29 (35%)
22	CLA	C	1033	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
23	PHO	A	1038	-	58,69,69	2.94	13 (22%)	55,99,99	3.53	19 (34%)
22	CLA	c	6032	3	69,73,73	1.93	16 (23%)	82,113,113	2.47	28 (34%)
22	CLA	b	6023	2	69,73,73	1.91	16 (23%)	82,113,113	2.48	29 (35%)
31	HEM	v	6041	16	50,50,50	1.88	8 (16%)	67,82,82	1.36	5 (7%)
22	CLA	B	1015	-	69,73,73	1.93	15 (21%)	82,113,113	2.48	28 (34%)
25	BCR	b	6045	-	41,41,41	4.02	17 (41%)	56,56,56	6.17	20 (35%)
24	PQ9	d	6042	-	45,45,45	0.68	2 (4%)	56,57,57	1.79	17 (30%)
24	PQ9	D	1042	-	45,45,45	0.68	2 (4%)	56,57,57	1.79	17 (30%)
25	BCR	K	1051	-	41,41,41	4.03	17 (41%)	56,56,56	4.97	20 (35%)
29	DGD	C	1057	-	67,67,67	0.85	2 (2%)	81,81,81	0.91	3 (3%)
22	CLA	b	6018	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	c	6036	3	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
31	HEM	f	6040	6,5	50,50,50	1.87	9 (18%)	67,82,82	1.34	5 (7%)
25	BCR	T	6046	-	41,41,41	3.96	17 (41%)	56,56,56	6.06	26 (46%)
22	CLA	B	1016	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	B	1021	2	69,73,73	1.92	16 (23%)	82,113,113	2.49	30 (36%)
22	CLA	b	6010	2	69,73,73	1.91	16 (23%)	82,113,113	2.49	29 (35%)
22	CLA	D	1004	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	B	1018	-	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	$\#\|Z\|>2$
22	CLA	k	6034	-	69,73,73	1.93	16 (23%)	82,113,113	2.49	28 (34%)
25	BCR	k	6051	-	41,41,41	4.03	17 (41%)	56,56,56	4.97	20 (35%)
28	MGE	B	1060	-	48,48,48	0.96	2 (4%)	56,56,56	1.02	3 (5%)
29	DGD	B	1058	-	67,67,67	0.86	2 (2%)	81,81,81	0.91	3 (3%)
22	CLA	b	6013	2	69,73,73	1.93	16 (23%)	82,113,113	2.48	28 (34%)
25	BCR	B	1048	-	41,41,41	4.01	17 (41%)	56,56,56	6.30	27 (48%)
22	CLA	B	1012	-	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
22	CLA	B	1014	-	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
29	DGD	c	6057	-	67,67,67	0.86	2 (2%)	81,81,81	0.91	3 (3%)
22	CLA	C	1027	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	C	1028	-	69,73,73	1.93	16 (23%)	82,113,113	2.47	27 (32%)
22	CLA	C	1035	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
26	LHG	A	1063	-	48,48,48	0.95	2 (4%)	51,54,54	1.05	3 (5%)
28	MGE	l	6061	-	48,48,48	0.96	2 (4%)	56,56,56	1.02	3 (5%)
22	CLA	c	6027	3	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	c	6035	3	69,73,73	1.94	16 (23%)	82,113,113	2.49	28 (34%)
28	MGE	L	1061	-	48,48,48	0.96	2 (4%)	56,56,56	1.02	3 (5%)
25	BCR	a	6044	-	41,41,41	3.92	16 (39%)	56,56,56	7.23	28 (50%)
22	CLA	B	1020	2	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
22	CLA	D	1005	-	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
22	CLA	b	6020	2	69,73,73	1.94	15 (21%)	82,113,113	2.49	28 (34%)
22	CLA	C	1029	3	69,73,73	1.91	17 (24%)	82,113,113	2.48	29 (35%)
25	BCR	B	1047	-	41,41,41	4.01	17 (41%)	56,56,56	5.46	26 (46%)
22	CLA	c	6037	3	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
25	BCR	H	1049	-	41,41,41	4.02	16 (39%)	56,56,56	5.30	20 (35%)
22	CLA	b	6016	2	69,73,73	1.93	15 (21%)	82,113,113	2.48	28 (34%)
22	CLA	c	6033	3	69,73,73	1.94	16 (23%)	82,113,113	2.47	28 (34%)
25	BCR	k	6052	-	41,41,41	4.02	17 (41%)	56,56,56	6.97	24 (42%)
26	LHG	a	6063	-	48,48,48	0.95	2 (4%)	51,54,54	1.05	3 (5%)
22	CLA	C	1036	3	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
22	CLA	B	1013	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
28	MGE	d	6062	-	48,48,48	0.97	2 (4%)	56,56,56	1.02	3 (5%)
22	CLA	d	6004	-	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
29	DGD	b	6058	-	67,67,67	0.86	2 (2%)	81,81,81	0.91	3 (3%)
22	CLA	b	6019	2	69,73,73	1.93	16 (23%)	82,113,113	2.48	28 (34%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
22	CLA	K	1034	-	69,73,73	1.93	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	B	1024	2	69,73,73	1.94	16 (23%)	82,113,113	2.48	28 (34%)
22	CLA	B	1010	2	69,73,73	1.92	16 (23%)	82,113,113	2.49	29 (35%)
28	MGE	D	1062	-	48,48,48	0.97	2 (4%)	56,56,56	1.02	3 (5%)
22	CLA	h	6017	-	69,73,73	1.94	15 (21%)	82,113,113	2.48	28 (34%)
29	DGD	c	6055	-	67,67,67	0.86	2 (2%)	81,81,81	0.91	3 (3%)
25	BCR	h	6049	-	41,41,41	4.02	17 (41%)	56,56,56	5.30	20 (35%)
22	CLA	C	1030	3	69,73,73	1.91	17 (24%)	82,113,113	2.48	29 (35%)
28	MGE	d	6059	-	48,48,48	0.97	2 (4%)	56,56,56	1.01	3 (5%)
25	BCR	c	6054	-	41,41,41	4.02	16 (39%)	56,56,56	5.43	21 (37%)

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
22	CLA	C	1031	3	1/1/15/20	14/39/115/115	-
22	CLA	A	1006	-	1/1/15/20	19/39/115/115	-
22	CLA	a	6007	-	-	25/39/115/115	-
22	CLA	b	6011	2	2/2/15/20	21/39/115/115	-
23	PHO	D	1039	-	3/3/17/22	16/37/103/103	0/5/6/6
24	PQ9	A	1043	-	-	16/41/61/61	0/1/1/1
25	BCR	B	1045	-	-	20/29/63/63	0/2/2/2
25	BCR	A	1044	-	-	12/29/63/63	0/2/2/2
31	HEM	F	1040	6,5	-	10/14/54/54	-
22	CLA	b	6021	2	1/1/15/20	24/39/115/115	-
22	CLA	B	1019	2	1/1/15/20	19/39/115/115	-
25	BCR	T	6048	-	-	10/29/63/63	0/2/2/2
22	CLA	B	1022	2	2/2/15/20	20/39/115/115	-
29	DGD	C	1055	-	-	33/55/95/95	0/2/2/2
25	BCR	d	6050	-	-	21/29/63/63	0/2/2/2
22	CLA	C	1026	3	-	18/39/115/115	-
25	BCR	C	1052	-	-	13/29/63/63	0/2/2/2
29	DGD	C	1056	-	-	32/55/95/95	0/2/2/2
23	PHO	a	6038	-	1/1/17/22	18/37/103/103	0/5/6/6

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	B	1009	-	1/1/15/20	17/39/115/115	-
22	CLA	D	1008	4	2/2/15/20	15/39/115/115	-
25	BCR	D	1050	-	-	21/29/63/63	0/2/2/2
25	BCR	z	6053	-	-	15/29/63/63	0/2/2/2
22	CLA	b	6022	2	2/2/15/20	20/39/115/115	-
22	CLA	B	1023	2	2/2/15/20	16/39/115/115	-
22	CLA	b	6024	2	-	17/39/115/115	-
22	CLA	b	6014	-	1/1/15/20	18/39/115/115	-
22	CLA	c	6030	3	1/1/15/20	18/39/115/115	-
22	CLA	C	1032	3	2/2/15/20	19/39/115/115	-
22	CLA	H	1017	-	1/1/15/20	24/39/115/115	-
22	CLA	C	1025	3	1/1/15/20	17/39/115/115	-
22	CLA	a	6003	-	1/1/15/20	23/39/115/115	-
22	CLA	b	6015	-	1/1/15/20	18/39/115/115	-
22	CLA	b	6012	-	1/1/15/20	18/39/115/115	-
23	PHO	d	6039	-	3/3/17/22	16/37/103/103	0/5/6/6
28	MGE	b	6060	-	-	31/43/63/63	0/1/1/1
22	CLA	B	1011	2	2/2/15/20	21/39/115/115	-
22	CLA	A	1003	-	1/1/15/20	23/39/115/115	-
22	CLA	c	6028	-	1/1/15/20	24/39/115/115	-
25	BCR	t	1046	-	-	11/29/63/63	0/2/2/2
25	BCR	Z	1053	-	-	15/29/63/63	0/2/2/2
22	CLA	c	6031	3	1/1/15/20	14/39/115/115	-
22	CLA	a	6006	-	1/1/15/20	19/39/115/115	-
22	CLA	c	6029	3	2/2/15/20	15/39/115/115	-
22	CLA	c	6026	3	-	18/39/115/115	-
24	PQ9	a	6043	-	-	16/41/61/61	0/1/1/1
22	CLA	d	6005	-	1/1/15/20	20/39/115/115	-
22	CLA	c	6025	3	1/1/15/20	17/39/115/115	-
25	BCR	b	6047	-	-	17/29/63/63	0/2/2/2
31	HEM	V	1041	16	-	6/14/54/54	-
29	DGD	c	6056	-	-	32/55/95/95	0/2/2/2
22	CLA	b	6009	-	1/1/15/20	17/39/115/115	-
22	CLA	C	1037	3	1/1/15/20	16/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
28	MGE	D	1059	-	-	23/43/63/63	0/1/1/1
22	CLA	A	1007	-	-	25/39/115/115	-
25	BCR	C	1054	-	-	14/29/63/63	0/2/2/2
22	CLA	d	6008	4	2/2/15/20	15/39/115/115	-
22	CLA	C	1033	3	1/1/15/20	16/39/115/115	-
23	PHO	A	1038	-	1/1/17/22	18/37/103/103	0/5/6/6
22	CLA	c	6032	3	2/2/15/20	19/39/115/115	-
22	CLA	b	6023	2	2/2/15/20	16/39/115/115	-
31	HEM	v	6041	16	-	5/14/54/54	-
22	CLA	B	1015	-	1/1/15/20	18/39/115/115	-
25	BCR	b	6045	-	-	20/29/63/63	0/2/2/2
24	PQ9	d	6042	-	-	11/41/61/61	0/1/1/1
24	PQ9	D	1042	-	-	11/41/61/61	0/1/1/1
25	BCR	K	1051	-	-	15/29/63/63	0/2/2/2
29	DGD	C	1057	-	-	32/55/95/95	0/2/2/2
22	CLA	b	6018	-	1/1/15/20	23/39/115/115	-
22	CLA	c	6036	3	1/1/15/20	23/39/115/115	-
31	HEM	f	6040	6,5	-	10/14/54/54	-
25	BCR	T	6046	-	-	11/29/63/63	0/2/2/2
22	CLA	B	1021	2	1/1/15/20	24/39/115/115	-
22	CLA	B	1016	2	-	20/39/115/115	-
22	CLA	b	6010	2	1/1/15/20	15/39/115/115	-
22	CLA	D	1004	-	1/1/15/20	12/39/115/115	-
22	CLA	B	1018	-	1/1/15/20	23/39/115/115	-
22	CLA	k	6034	-	4/4/15/20	24/39/115/115	-
25	BCR	k	6051	-	-	15/29/63/63	0/2/2/2
28	MGE	B	1060	-	-	31/43/63/63	0/1/1/1
29	DGD	B	1058	-	-	32/55/95/95	0/2/2/2
22	CLA	b	6013	2	1/1/15/20	24/39/115/115	-
25	BCR	B	1048	-	-	10/29/63/63	0/2/2/2
22	CLA	B	1012	-	1/1/15/20	18/39/115/115	-
22	CLA	B	1014	-	1/1/15/20	18/39/115/115	-
29	DGD	c	6057	-	-	32/55/95/95	0/2/2/2
22	CLA	C	1027	3	2/2/15/20	18/39/115/115	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
22	CLA	C	1028	-	1/1/15/20	24/39/115/115	-
22	CLA	C	1035	3	1/1/15/20	14/39/115/115	-
26	LHG	A	1063	-	-	27/53/53/53	-
28	MGE	l	6061	-	-	26/43/63/63	0/1/1/1
22	CLA	c	6027	3	2/2/15/20	18/39/115/115	-
22	CLA	c	6035	3	1/1/15/20	14/39/115/115	-
28	MGE	L	1061	-	-	26/43/63/63	0/1/1/1
25	BCR	a	6044	-	-	12/29/63/63	0/2/2/2
22	CLA	B	1020	2	2/2/15/20	18/39/115/115	-
22	CLA	D	1005	-	1/1/15/20	20/39/115/115	-
22	CLA	b	6020	2	2/2/15/20	18/39/115/115	-
22	CLA	C	1029	3	2/2/15/20	15/39/115/115	-
25	BCR	B	1047	-	-	17/29/63/63	0/2/2/2
22	CLA	c	6037	3	1/1/15/20	16/39/115/115	-
25	BCR	H	1049	-	-	13/29/63/63	0/2/2/2
22	CLA	c	6033	3	1/1/15/20	16/39/115/115	-
22	CLA	b	6016	2	-	20/39/115/115	-
25	BCR	k	6052	-	-	13/29/63/63	0/2/2/2
26	LHG	a	6063	-	-	28/53/53/53	-
22	CLA	C	1036	3	1/1/15/20	23/39/115/115	-
22	CLA	B	1013	2	1/1/15/20	24/39/115/115	-
28	MGE	d	6062	-	-	24/43/63/63	0/1/1/1
22	CLA	d	6004	-	1/1/15/20	12/39/115/115	-
29	DGD	b	6058	-	-	32/55/95/95	0/2/2/2
22	CLA	b	6019	2	1/1/15/20	19/39/115/115	-
22	CLA	K	1034	-	4/4/15/20	24/39/115/115	-
22	CLA	B	1024	2	-	17/39/115/115	-
22	CLA	B	1010	2	1/1/15/20	15/39/115/115	-
28	MGE	D	1062	-	-	24/43/63/63	0/1/1/1
22	CLA	h	6017	-	1/1/15/20	24/39/115/115	-
29	DGD	c	6055	-	-	33/55/95/95	0/2/2/2
25	BCR	h	6049	-	-	13/29/63/63	0/2/2/2
22	CLA	C	1030	3	1/1/15/20	18/39/115/115	-
28	MGE	d	6059	-	-	23/43/63/63	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
25	BCR	c	6054	-	-	14/29/63/63	0/2/2/2

All (1605) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	d	6039	PHO	OBD-CAD	14.60	1.41	1.22
23	D	1039	PHO	OBD-CAD	14.58	1.41	1.22
23	A	1038	PHO	OBD-CAD	14.57	1.41	1.22
23	a	6038	PHO	OBD-CAD	14.57	1.41	1.22
25	b	6047	BCR	C19-C18	-9.39	1.25	1.46
25	z	6053	BCR	C8-C9	-9.39	1.25	1.46
25	b	6047	BCR	C8-C9	-9.38	1.25	1.46
25	k	6051	BCR	C12-C13	-9.38	1.25	1.46
25	B	1047	BCR	C8-C9	-9.38	1.25	1.46
25	c	6054	BCR	C8-C9	-9.38	1.25	1.46
25	C	1054	BCR	C8-C9	-9.37	1.25	1.46
25	B	1047	BCR	C19-C18	-9.37	1.25	1.46
25	Z	1053	BCR	C8-C9	-9.37	1.25	1.46
25	k	6052	BCR	C12-C13	-9.37	1.25	1.46
25	h	6049	BCR	C19-C18	-9.37	1.25	1.46
25	B	1048	BCR	C8-C9	-9.37	1.25	1.46
25	K	1051	BCR	C12-C13	-9.37	1.25	1.46
25	C	1052	BCR	C12-C13	-9.36	1.25	1.46
25	B	1045	BCR	C19-C18	-9.36	1.25	1.46
25	T	6048	BCR	C8-C9	-9.36	1.25	1.46
25	H	1049	BCR	C19-C18	-9.36	1.25	1.46
25	B	1045	BCR	C8-C9	-9.36	1.25	1.46
25	Z	1053	BCR	C12-C13	-9.36	1.25	1.46
25	B	1048	BCR	C12-C13	-9.35	1.25	1.46
25	k	6051	BCR	C8-C9	-9.35	1.25	1.46
25	b	6045	BCR	C19-C18	-9.35	1.25	1.46
25	D	1050	BCR	C12-C13	-9.35	1.25	1.46
25	C	1054	BCR	C19-C18	-9.35	1.25	1.46
25	T	6048	BCR	C12-C13	-9.35	1.25	1.46
25	b	6045	BCR	C8-C9	-9.35	1.25	1.46
25	z	6053	BCR	C12-C13	-9.35	1.26	1.46
25	D	1050	BCR	C19-C18	-9.34	1.26	1.46
25	K	1051	BCR	C8-C9	-9.34	1.26	1.46
25	h	6049	BCR	C12-C13	-9.34	1.26	1.46
25	z	6053	BCR	C19-C18	-9.34	1.26	1.46
25	H	1049	BCR	C12-C13	-9.33	1.26	1.46
25	k	6052	BCR	C8-C9	-9.33	1.26	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	K	1051	BCR	C19-C18	-9.33	1.26	1.46
25	c	6054	BCR	C19-C18	-9.33	1.26	1.46
25	B	1047	BCR	C12-C13	-9.33	1.26	1.46
25	c	6054	BCR	C12-C13	-9.33	1.26	1.46
25	C	1052	BCR	C19-C18	-9.33	1.26	1.46
25	Z	1053	BCR	C19-C18	-9.33	1.26	1.46
25	C	1054	BCR	C12-C13	-9.33	1.26	1.46
25	d	6050	BCR	C12-C13	-9.33	1.26	1.46
25	d	6050	BCR	C19-C18	-9.33	1.26	1.46
25	k	6052	BCR	C19-C18	-9.32	1.26	1.46
25	h	6049	BCR	C8-C9	-9.32	1.26	1.46
25	C	1052	BCR	C8-C9	-9.32	1.26	1.46
25	b	6045	BCR	C12-C13	-9.32	1.26	1.46
25	k	6051	BCR	C19-C18	-9.32	1.26	1.46
25	H	1049	BCR	C8-C9	-9.32	1.26	1.46
25	b	6047	BCR	C12-C13	-9.32	1.26	1.46
25	B	1045	BCR	C12-C13	-9.31	1.26	1.46
25	B	1048	BCR	C19-C18	-9.31	1.26	1.46
25	T	6048	BCR	C19-C18	-9.31	1.26	1.46
25	D	1050	BCR	C8-C9	-9.30	1.26	1.46
25	d	6050	BCR	C8-C9	-9.30	1.26	1.46
25	a	6044	BCR	C19-C18	-9.27	1.26	1.46
25	T	6046	BCR	C12-C13	-9.27	1.26	1.46
25	A	1044	BCR	C19-C18	-9.26	1.26	1.46
25	t	1046	BCR	C12-C13	-9.26	1.26	1.46
25	t	1046	BCR	C8-C9	-9.23	1.26	1.46
25	T	6046	BCR	C8-C9	-9.21	1.26	1.46
25	T	6046	BCR	C19-C18	-9.20	1.26	1.46
25	t	1046	BCR	C19-C18	-9.19	1.26	1.46
25	A	1044	BCR	C8-C9	-9.13	1.26	1.46
25	a	6044	BCR	C8-C9	-9.12	1.26	1.46
25	A	1044	BCR	C12-C13	-9.06	1.26	1.46
25	a	6044	BCR	C12-C13	-9.06	1.26	1.46
23	a	6038	PHO	O1D-CGD	8.05	1.41	1.21
23	D	1039	PHO	O1D-CGD	8.03	1.41	1.21
23	A	1038	PHO	O1D-CGD	8.03	1.41	1.21
25	c	6054	BCR	C16-C17	-8.02	1.18	1.43
25	b	6047	BCR	C16-C17	-8.01	1.18	1.43
23	d	6039	PHO	O1D-CGD	8.01	1.41	1.21
25	C	1054	BCR	C16-C17	-8.01	1.18	1.43
25	b	6047	BCR	C20-C21	-8.00	1.18	1.43
25	H	1049	BCR	C20-C21	-8.00	1.18	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	h	6049	BCR	C20-C21	-7.99	1.18	1.43
25	B	1048	BCR	C20-C21	-7.99	1.18	1.43
25	B	1047	BCR	C16-C17	-7.99	1.18	1.43
25	Z	1053	BCR	C16-C17	-7.99	1.18	1.43
25	B	1045	BCR	C16-C17	-7.99	1.18	1.43
25	K	1051	BCR	C20-C21	-7.98	1.18	1.43
25	b	6045	BCR	C16-C17	-7.98	1.18	1.43
25	k	6051	BCR	C16-C17	-7.98	1.18	1.43
25	B	1047	BCR	C20-C21	-7.98	1.18	1.43
25	C	1052	BCR	C20-C21	-7.98	1.18	1.43
25	K	1051	BCR	C16-C17	-7.98	1.18	1.43
25	b	6045	BCR	C20-C21	-7.98	1.18	1.43
25	C	1054	BCR	C20-C21	-7.98	1.18	1.43
25	z	6053	BCR	C16-C17	-7.98	1.18	1.43
25	B	1045	BCR	C20-C21	-7.98	1.18	1.43
25	c	6054	BCR	C20-C21	-7.98	1.18	1.43
25	k	6051	BCR	C20-C21	-7.98	1.18	1.43
25	z	6053	BCR	C20-C21	-7.97	1.18	1.43
25	d	6050	BCR	C16-C17	-7.97	1.18	1.43
25	H	1049	BCR	C16-C17	-7.97	1.18	1.43
25	T	6048	BCR	C16-C17	-7.97	1.18	1.43
25	k	6052	BCR	C20-C21	-7.97	1.18	1.43
25	C	1052	BCR	C16-C17	-7.97	1.18	1.43
25	D	1050	BCR	C16-C17	-7.97	1.18	1.43
25	Z	1053	BCR	C20-C21	-7.97	1.18	1.43
25	T	6048	BCR	C20-C21	-7.97	1.18	1.43
25	d	6050	BCR	C20-C21	-7.96	1.18	1.43
25	h	6049	BCR	C16-C17	-7.96	1.18	1.43
25	D	1050	BCR	C20-C21	-7.96	1.18	1.43
25	B	1048	BCR	C16-C17	-7.95	1.18	1.43
31	V	1041	HEM	C3D-C2D	7.95	1.53	1.36
25	k	6052	BCR	C16-C17	-7.94	1.18	1.43
31	v	6041	HEM	C3D-C2D	7.92	1.53	1.36
31	F	1040	HEM	C3D-C2D	7.89	1.53	1.36
25	T	6046	BCR	C16-C17	-7.86	1.18	1.43
25	t	1046	BCR	C16-C17	-7.86	1.18	1.43
31	f	6040	HEM	C3D-C2D	7.86	1.53	1.36
25	a	6044	BCR	C20-C21	-7.86	1.18	1.43
25	A	1044	BCR	C20-C21	-7.84	1.18	1.43
25	a	6044	BCR	C16-C17	-7.83	1.18	1.43
25	A	1044	BCR	C16-C17	-7.82	1.18	1.43
25	t	1046	BCR	C20-C21	-7.77	1.19	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	T	6046	BCR	C20-C21	-7.76	1.19	1.43
25	h	6049	BCR	C16-C15	-6.52	1.18	1.36
25	k	6052	BCR	C16-C15	-6.51	1.18	1.36
25	K	1051	BCR	C16-C15	-6.51	1.18	1.36
25	H	1049	BCR	C16-C15	-6.51	1.18	1.36
25	k	6051	BCR	C16-C15	-6.51	1.18	1.36
25	z	6053	BCR	C16-C15	-6.50	1.18	1.36
25	C	1052	BCR	C16-C15	-6.50	1.18	1.36
25	Z	1053	BCR	C16-C15	-6.49	1.18	1.36
25	B	1048	BCR	C16-C15	-6.49	1.18	1.36
25	b	6047	BCR	C16-C15	-6.48	1.18	1.36
25	B	1047	BCR	C16-C15	-6.48	1.18	1.36
25	C	1054	BCR	C16-C15	-6.47	1.18	1.36
25	B	1045	BCR	C16-C15	-6.47	1.18	1.36
25	T	6048	BCR	C16-C15	-6.47	1.18	1.36
25	b	6045	BCR	C16-C15	-6.46	1.18	1.36
25	D	1050	BCR	C16-C15	-6.46	1.18	1.36
25	d	6050	BCR	C16-C15	-6.46	1.18	1.36
25	c	6054	BCR	C16-C15	-6.45	1.18	1.36
23	A	1038	PHO	O1A-CGA	6.36	1.41	1.22
23	d	6039	PHO	O1A-CGA	6.35	1.41	1.22
23	D	1039	PHO	O1A-CGA	6.35	1.41	1.22
23	a	6038	PHO	O1A-CGA	6.34	1.41	1.22
25	t	1046	BCR	C16-C15	-6.31	1.18	1.36
25	T	6046	BCR	C16-C15	-6.31	1.18	1.36
23	d	6039	PHO	C2-C3	6.27	1.47	1.33
23	D	1039	PHO	C2-C3	6.26	1.47	1.33
25	b	6047	BCR	C11-C12	-6.25	1.18	1.34
25	c	6054	BCR	C20-C19	-6.25	1.18	1.34
25	T	6048	BCR	C20-C19	-6.24	1.18	1.34
25	k	6051	BCR	C20-C19	-6.24	1.18	1.34
25	d	6050	BCR	C20-C19	-6.24	1.18	1.34
25	a	6044	BCR	C16-C15	-6.24	1.19	1.36
23	A	1038	PHO	C2-C3	6.24	1.47	1.33
25	C	1054	BCR	C11-C12	-6.24	1.18	1.34
23	a	6038	PHO	C2-C3	6.24	1.47	1.33
25	B	1048	BCR	C20-C19	-6.24	1.18	1.34
25	z	6053	BCR	C11-C12	-6.23	1.18	1.34
25	k	6052	BCR	C20-C19	-6.23	1.18	1.34
25	B	1047	BCR	C11-C12	-6.23	1.18	1.34
25	b	6045	BCR	C11-C12	-6.23	1.18	1.34
25	A	1044	BCR	C16-C15	-6.22	1.19	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	D	1050	BCR	C20-C19	-6.22	1.18	1.34
25	k	6052	BCR	C11-C12	-6.22	1.18	1.34
25	c	6054	BCR	C11-C12	-6.22	1.18	1.34
25	K	1051	BCR	C20-C19	-6.22	1.18	1.34
25	C	1054	BCR	C20-C19	-6.22	1.18	1.34
25	B	1045	BCR	C11-C12	-6.22	1.18	1.34
25	H	1049	BCR	C11-C12	-6.22	1.18	1.34
25	Z	1053	BCR	C11-C12	-6.22	1.18	1.34
25	B	1048	BCR	C11-C12	-6.22	1.18	1.34
25	C	1052	BCR	C20-C19	-6.21	1.18	1.34
25	B	1045	BCR	C20-C19	-6.21	1.18	1.34
25	h	6049	BCR	C20-C19	-6.21	1.18	1.34
25	B	1047	BCR	C20-C19	-6.21	1.18	1.34
25	K	1051	BCR	C11-C12	-6.21	1.18	1.34
25	h	6049	BCR	C11-C12	-6.21	1.18	1.34
25	T	6048	BCR	C11-C12	-6.20	1.18	1.34
25	C	1052	BCR	C11-C12	-6.20	1.18	1.34
25	d	6050	BCR	C11-C12	-6.20	1.18	1.34
25	b	6045	BCR	C20-C19	-6.20	1.18	1.34
25	H	1049	BCR	C20-C19	-6.20	1.18	1.34
25	Z	1053	BCR	C20-C19	-6.20	1.18	1.34
25	D	1050	BCR	C11-C12	-6.19	1.18	1.34
25	k	6051	BCR	C11-C12	-6.19	1.18	1.34
25	z	6053	BCR	C20-C19	-6.19	1.18	1.34
25	b	6047	BCR	C20-C19	-6.18	1.18	1.34
25	T	6046	BCR	C11-C12	-6.05	1.18	1.34
25	A	1044	BCR	C20-C19	-6.05	1.18	1.34
25	t	1046	BCR	C11-C12	-6.04	1.18	1.34
25	a	6044	BCR	C20-C19	-6.03	1.18	1.34
25	T	6046	BCR	C20-C19	-6.02	1.19	1.34
25	A	1044	BCR	C11-C12	-6.02	1.19	1.34
25	t	1046	BCR	C20-C19	-6.01	1.19	1.34
25	a	6044	BCR	C11-C12	-6.01	1.19	1.34
25	d	6050	BCR	C11-C10	-5.58	1.25	1.43
25	T	6048	BCR	C11-C10	-5.58	1.25	1.43
25	D	1050	BCR	C11-C10	-5.57	1.25	1.43
25	C	1052	BCR	C11-C10	-5.57	1.25	1.43
25	b	6047	BCR	C15-C14	-5.57	1.25	1.43
25	B	1045	BCR	C11-C10	-5.56	1.25	1.43
25	B	1047	BCR	C15-C14	-5.56	1.25	1.43
25	h	6049	BCR	C11-C10	-5.56	1.25	1.43
25	B	1048	BCR	C15-C14	-5.56	1.25	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	B	1048	BCR	C11-C10	-5.56	1.25	1.43
25	k	6051	BCR	C11-C10	-5.56	1.25	1.43
25	D	1050	BCR	C15-C14	-5.56	1.25	1.43
25	b	6045	BCR	C11-C10	-5.56	1.25	1.43
25	d	6050	BCR	C15-C14	-5.56	1.25	1.43
25	H	1049	BCR	C11-C10	-5.56	1.25	1.43
25	k	6051	BCR	C15-C14	-5.56	1.25	1.43
25	B	1045	BCR	C15-C14	-5.55	1.26	1.43
25	b	6045	BCR	C15-C14	-5.55	1.26	1.43
25	K	1051	BCR	C15-C14	-5.55	1.26	1.43
25	K	1051	BCR	C11-C10	-5.55	1.26	1.43
25	c	6054	BCR	C15-C14	-5.55	1.26	1.43
25	z	6053	BCR	C15-C14	-5.55	1.26	1.43
25	h	6049	BCR	C15-C14	-5.55	1.26	1.43
25	H	1049	BCR	C15-C14	-5.55	1.26	1.43
25	c	6054	BCR	C11-C10	-5.55	1.26	1.43
25	k	6052	BCR	C11-C10	-5.55	1.26	1.43
25	C	1054	BCR	C11-C10	-5.55	1.26	1.43
25	z	6053	BCR	C11-C10	-5.55	1.26	1.43
25	k	6052	BCR	C15-C14	-5.55	1.26	1.43
25	Z	1053	BCR	C11-C10	-5.54	1.26	1.43
25	Z	1053	BCR	C15-C14	-5.54	1.26	1.43
25	C	1054	BCR	C15-C14	-5.54	1.26	1.43
25	B	1047	BCR	C11-C10	-5.54	1.26	1.43
25	T	6048	BCR	C15-C14	-5.54	1.26	1.43
25	C	1052	BCR	C15-C14	-5.54	1.26	1.43
25	b	6047	BCR	C11-C10	-5.53	1.26	1.43
25	T	6046	BCR	C11-C10	-5.50	1.26	1.43
25	t	1046	BCR	C11-C10	-5.48	1.26	1.43
25	a	6044	BCR	C15-C14	-5.42	1.26	1.43
25	A	1044	BCR	C15-C14	-5.41	1.26	1.43
25	T	6046	BCR	C15-C14	-5.41	1.26	1.43
25	t	1046	BCR	C15-C14	-5.41	1.26	1.43
25	A	1044	BCR	C11-C10	-5.39	1.26	1.43
25	a	6044	BCR	C11-C10	-5.39	1.26	1.43
25	D	1050	BCR	C23-C22	-5.39	1.34	1.46
25	H	1049	BCR	C23-C22	-5.38	1.34	1.46
25	d	6050	BCR	C23-C22	-5.38	1.34	1.46
25	B	1045	BCR	C23-C22	-5.38	1.34	1.46
25	h	6049	BCR	C23-C22	-5.38	1.34	1.46
25	b	6045	BCR	C23-C22	-5.37	1.34	1.46
25	c	6054	BCR	C23-C22	-5.37	1.34	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	C	1054	BCR	C23-C22	-5.36	1.34	1.46
25	K	1051	BCR	C23-C22	-5.35	1.34	1.46
25	z	6053	BCR	C23-C22	-5.35	1.34	1.46
25	Z	1053	BCR	C23-C22	-5.35	1.34	1.46
25	k	6051	BCR	C23-C22	-5.31	1.34	1.46
25	T	6046	BCR	C23-C22	-5.28	1.34	1.46
25	t	1046	BCR	C23-C22	-5.27	1.34	1.46
22	B	1011	CLA	O2D-CGD	5.20	1.46	1.33
22	b	6011	CLA	O2D-CGD	5.19	1.46	1.33
22	A	1007	CLA	O2D-CGD	5.18	1.46	1.33
22	b	6024	CLA	O2D-CGD	5.18	1.46	1.33
22	c	6032	CLA	O2D-CGD	5.18	1.46	1.33
22	C	1036	CLA	O2D-CGD	5.17	1.45	1.33
22	a	6007	CLA	O2D-CGD	5.16	1.45	1.33
22	c	6033	CLA	O2D-CGD	5.16	1.45	1.33
22	C	1033	CLA	O2D-CGD	5.16	1.45	1.33
22	b	6022	CLA	O2D-CGD	5.16	1.45	1.33
25	A	1044	BCR	C23-C22	-5.16	1.34	1.46
22	B	1024	CLA	O2D-CGD	5.16	1.45	1.33
25	a	6044	BCR	C23-C22	-5.15	1.34	1.46
22	C	1032	CLA	O2D-CGD	5.15	1.45	1.33
22	C	1025	CLA	O2D-CGD	5.15	1.45	1.33
25	C	1052	BCR	C23-C22	-5.15	1.34	1.46
22	C	1035	CLA	O2D-CGD	5.14	1.45	1.33
22	B	1013	CLA	O2D-CGD	5.14	1.45	1.33
22	b	6010	CLA	O2D-CGD	5.14	1.45	1.33
22	A	1006	CLA	O2D-CGD	5.14	1.45	1.33
22	C	1031	CLA	O2D-CGD	5.14	1.45	1.33
22	C	1027	CLA	O2D-CGD	5.14	1.45	1.33
22	c	6026	CLA	O2D-CGD	5.14	1.45	1.33
22	B	1020	CLA	O2D-CGD	5.13	1.45	1.33
22	c	6025	CLA	O2D-CGD	5.13	1.45	1.33
22	b	6012	CLA	O2D-CGD	5.13	1.45	1.33
22	b	6020	CLA	O2D-CGD	5.13	1.45	1.33
22	D	1004	CLA	O2D-CGD	5.13	1.45	1.33
22	b	6014	CLA	O2D-CGD	5.13	1.45	1.33
25	k	6052	BCR	C23-C22	-5.13	1.35	1.46
22	B	1012	CLA	O2D-CGD	5.13	1.45	1.33
22	D	1005	CLA	O2D-CGD	5.13	1.45	1.33
22	B	1010	CLA	O2D-CGD	5.13	1.45	1.33
22	C	1028	CLA	O2D-CGD	5.13	1.45	1.33
22	c	6036	CLA	O2D-CGD	5.13	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	1019	CLA	O2D-CGD	5.13	1.45	1.33
22	C	1026	CLA	O2D-CGD	5.13	1.45	1.33
22	K	1034	CLA	O2D-CGD	5.13	1.45	1.33
22	B	1016	CLA	O2D-CGD	5.13	1.45	1.33
22	c	6027	CLA	O2D-CGD	5.13	1.45	1.33
22	B	1022	CLA	O2D-CGD	5.12	1.45	1.33
22	a	6003	CLA	O2D-CGD	5.12	1.45	1.33
22	b	6013	CLA	O2D-CGD	5.12	1.45	1.33
22	B	1018	CLA	O2D-CGD	5.12	1.45	1.33
22	H	1017	CLA	O2D-CGD	5.12	1.45	1.33
22	c	6028	CLA	O2D-CGD	5.12	1.45	1.33
22	d	6004	CLA	O2D-CGD	5.12	1.45	1.33
22	b	6016	CLA	O2D-CGD	5.12	1.45	1.33
22	h	6017	CLA	O2D-CGD	5.12	1.45	1.33
22	d	6005	CLA	O2D-CGD	5.12	1.45	1.33
22	b	6019	CLA	O2D-CGD	5.12	1.45	1.33
22	c	6037	CLA	O2D-CGD	5.12	1.45	1.33
22	c	6035	CLA	O2D-CGD	5.11	1.45	1.33
25	T	6048	BCR	C23-C22	-5.11	1.35	1.46
22	A	1003	CLA	O2D-CGD	5.11	1.45	1.33
22	C	1037	CLA	O2D-CGD	5.11	1.45	1.33
22	b	6018	CLA	O2D-CGD	5.11	1.45	1.33
22	k	6034	CLA	O2D-CGD	5.11	1.45	1.33
22	a	6006	CLA	O2D-CGD	5.11	1.45	1.33
22	B	1014	CLA	O2D-CGD	5.11	1.45	1.33
22	d	6008	CLA	O2D-CGD	5.10	1.45	1.33
22	c	6031	CLA	O2D-CGD	5.10	1.45	1.33
22	B	1015	CLA	O2D-CGD	5.10	1.45	1.33
25	B	1048	BCR	C23-C22	-5.10	1.35	1.46
22	D	1008	CLA	O2D-CGD	5.09	1.45	1.33
22	b	6015	CLA	O2D-CGD	5.09	1.45	1.33
25	B	1047	BCR	C23-C22	-5.09	1.35	1.46
25	b	6047	BCR	C23-C22	-5.08	1.35	1.46
22	b	6009	CLA	O2D-CGD	5.07	1.45	1.33
22	B	1009	CLA	O2D-CGD	5.05	1.45	1.33
22	c	6029	CLA	O2D-CGD	5.04	1.45	1.33
22	C	1029	CLA	O2D-CGD	5.03	1.45	1.33
22	c	6030	CLA	O2D-CGD	5.02	1.45	1.33
22	C	1030	CLA	O2D-CGD	5.02	1.45	1.33
22	B	1023	CLA	O2D-CGD	4.98	1.45	1.33
22	b	6023	CLA	O2D-CGD	4.97	1.45	1.33
22	B	1021	CLA	O2D-CGD	4.97	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	b	6021	CLA	O2D-CGD	4.94	1.45	1.33
22	a	6003	CLA	C3C-C2C	4.87	1.47	1.36
22	k	6034	CLA	C3C-C2C	4.85	1.47	1.36
22	b	6014	CLA	C3C-C2C	4.85	1.47	1.36
22	b	6015	CLA	C3C-C2C	4.85	1.47	1.36
22	K	1034	CLA	C3C-C2C	4.85	1.47	1.36
22	c	6027	CLA	C3C-C2C	4.84	1.47	1.36
22	A	1003	CLA	C3C-C2C	4.84	1.47	1.36
22	D	1004	CLA	C3C-C2C	4.84	1.47	1.36
22	a	6007	CLA	C3C-C2C	4.84	1.47	1.36
22	B	1014	CLA	C3C-C2C	4.84	1.47	1.36
23	A	1038	PHO	C3D-C4D	-4.84	1.34	1.41
22	a	6006	CLA	C3C-C2C	4.84	1.47	1.36
23	d	6039	PHO	C3D-C4D	-4.84	1.34	1.41
22	b	6011	CLA	C3D-C4D	-4.84	1.33	1.44
22	h	6017	CLA	C3C-C2C	4.84	1.47	1.36
23	D	1039	PHO	C3D-C4D	-4.84	1.34	1.41
22	b	6018	CLA	C3C-C2C	4.84	1.47	1.36
22	H	1017	CLA	C3C-C2C	4.84	1.47	1.36
22	C	1027	CLA	C3C-C2C	4.84	1.47	1.36
22	c	6035	CLA	C3C-C2C	4.83	1.47	1.36
22	C	1025	CLA	C3C-C2C	4.83	1.47	1.36
23	a	6038	PHO	C3D-C4D	-4.83	1.34	1.41
22	B	1016	CLA	C3C-C2C	4.83	1.47	1.36
22	B	1024	CLA	C3C-C2C	4.83	1.47	1.36
22	d	6004	CLA	C3C-C2C	4.83	1.47	1.36
22	B	1018	CLA	C3C-C2C	4.83	1.47	1.36
22	b	6012	CLA	C3C-C2C	4.83	1.47	1.36
22	b	6020	CLA	C3C-C2C	4.83	1.47	1.36
22	c	6032	CLA	C3C-C2C	4.83	1.47	1.36
22	B	1013	CLA	C3C-C2C	4.82	1.47	1.36
22	c	6030	CLA	C3D-C4D	-4.82	1.33	1.44
22	A	1007	CLA	C3C-C2C	4.82	1.47	1.36
22	C	1026	CLA	C3C-C2C	4.82	1.47	1.36
22	B	1022	CLA	C3C-C2C	4.82	1.47	1.36
22	c	6031	CLA	C3C-C2C	4.82	1.47	1.36
22	B	1020	CLA	C3C-C2C	4.82	1.47	1.36
22	C	1031	CLA	C3C-C2C	4.82	1.47	1.36
22	d	6005	CLA	C3C-C2C	4.82	1.47	1.36
23	d	6039	PHO	C3D-C2D	4.82	1.47	1.39
22	B	1012	CLA	C3C-C2C	4.81	1.47	1.36
22	d	6008	CLA	C3D-C4D	-4.81	1.33	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	1011	CLA	C3D-C4D	-4.81	1.33	1.44
22	c	6029	CLA	C3D-C4D	-4.81	1.33	1.44
22	B	1015	CLA	C3C-C2C	4.81	1.47	1.36
22	b	6016	CLA	C3C-C2C	4.81	1.47	1.36
22	C	1032	CLA	C3C-C2C	4.81	1.47	1.36
22	C	1036	CLA	C3C-C2C	4.81	1.47	1.36
22	A	1006	CLA	C3C-C2C	4.81	1.47	1.36
22	D	1008	CLA	C3D-C4D	-4.81	1.33	1.44
23	A	1038	PHO	C3D-C2D	4.81	1.47	1.39
22	b	6021	CLA	C3D-C4D	-4.81	1.33	1.44
22	C	1035	CLA	C3C-C2C	4.81	1.47	1.36
22	c	6025	CLA	C3C-C2C	4.81	1.47	1.36
22	C	1037	CLA	C3C-C2C	4.80	1.47	1.36
22	D	1005	CLA	C3C-C2C	4.80	1.47	1.36
22	c	6026	CLA	C3C-C2C	4.80	1.47	1.36
22	c	6028	CLA	C3C-C2C	4.80	1.47	1.36
22	B	1010	CLA	C3D-C4D	-4.80	1.33	1.44
22	b	6013	CLA	C3C-C2C	4.80	1.47	1.36
22	b	6010	CLA	C3D-C4D	-4.80	1.33	1.44
22	b	6024	CLA	C3C-C2C	4.80	1.47	1.36
22	C	1029	CLA	C3D-C4D	-4.80	1.33	1.44
22	b	6022	CLA	C3C-C2C	4.79	1.47	1.36
22	C	1033	CLA	C3C-C2C	4.79	1.47	1.36
22	C	1030	CLA	C3D-C4D	-4.79	1.33	1.44
22	c	6036	CLA	C3C-C2C	4.79	1.47	1.36
22	C	1028	CLA	C3C-C2C	4.79	1.47	1.36
22	B	1021	CLA	C3D-C4D	-4.79	1.33	1.44
22	c	6033	CLA	C3C-C2C	4.78	1.47	1.36
22	B	1019	CLA	C3C-C2C	4.78	1.47	1.36
23	D	1039	PHO	C3D-C2D	4.78	1.47	1.39
23	a	6038	PHO	C3D-C2D	4.78	1.47	1.39
22	c	6037	CLA	C3C-C2C	4.78	1.47	1.36
22	B	1009	CLA	C3C-C2C	4.78	1.47	1.36
22	b	6009	CLA	C3C-C2C	4.77	1.47	1.36
22	b	6019	CLA	C3C-C2C	4.76	1.47	1.36
22	B	1023	CLA	C3D-C4D	-4.76	1.33	1.44
22	b	6023	CLA	C3D-C4D	-4.75	1.33	1.44
22	B	1010	CLA	C3C-C2C	4.74	1.47	1.36
22	C	1030	CLA	C3C-C2C	4.73	1.47	1.36
22	c	6030	CLA	C3C-C2C	4.73	1.47	1.36
22	b	6011	CLA	C3C-C2C	4.73	1.47	1.36
22	b	6021	CLA	C3C-C2C	4.72	1.47	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	1009	CLA	C3D-C4D	-4.72	1.33	1.44
22	B	1011	CLA	C3C-C2C	4.72	1.46	1.36
22	B	1021	CLA	C3C-C2C	4.71	1.46	1.36
22	b	6010	CLA	C3C-C2C	4.71	1.46	1.36
22	c	6036	CLA	C3D-C4D	-4.71	1.33	1.44
22	b	6014	CLA	C3D-C4D	-4.71	1.33	1.44
22	h	6017	CLA	C3D-C4D	-4.70	1.33	1.44
22	c	6027	CLA	C3D-C4D	-4.70	1.33	1.44
22	b	6012	CLA	C3D-C4D	-4.70	1.33	1.44
22	b	6009	CLA	C3D-C4D	-4.70	1.33	1.44
22	C	1036	CLA	C3D-C4D	-4.69	1.33	1.44
22	a	6007	CLA	C3D-C4D	-4.69	1.33	1.44
22	A	1006	CLA	C3D-C4D	-4.68	1.33	1.44
22	C	1029	CLA	C3C-C2C	4.68	1.46	1.36
22	b	6022	CLA	C3D-C4D	-4.68	1.33	1.44
22	H	1017	CLA	C3D-C4D	-4.68	1.33	1.44
22	B	1012	CLA	C3D-C4D	-4.68	1.33	1.44
22	C	1027	CLA	C3D-C4D	-4.68	1.33	1.44
22	c	6032	CLA	C3D-C4D	-4.68	1.33	1.44
22	D	1005	CLA	C3D-C4D	-4.68	1.33	1.44
22	d	6005	CLA	C3D-C4D	-4.68	1.33	1.44
22	a	6006	CLA	C3D-C4D	-4.67	1.33	1.44
22	d	6004	CLA	C3D-C4D	-4.67	1.33	1.44
22	B	1022	CLA	C3D-C4D	-4.67	1.33	1.44
22	C	1037	CLA	C3D-C4D	-4.67	1.33	1.44
22	D	1004	CLA	C3D-C4D	-4.67	1.33	1.44
22	b	6018	CLA	C3D-C4D	-4.67	1.33	1.44
22	B	1014	CLA	C3D-C4D	-4.67	1.33	1.44
22	c	6029	CLA	C3C-C2C	4.67	1.46	1.36
22	C	1033	CLA	C3D-C4D	-4.67	1.33	1.44
22	A	1007	CLA	C3D-C4D	-4.67	1.33	1.44
22	C	1026	CLA	C3D-C4D	-4.67	1.33	1.44
22	B	1015	CLA	C3D-C4D	-4.67	1.33	1.44
22	b	6023	CLA	C3C-C2C	4.67	1.46	1.36
22	b	6015	CLA	C3D-C4D	-4.67	1.33	1.44
22	C	1032	CLA	C3D-C4D	-4.67	1.33	1.44
22	c	6025	CLA	C3D-C4D	-4.67	1.33	1.44
22	C	1025	CLA	C3D-C4D	-4.66	1.33	1.44
22	C	1035	CLA	C3D-C4D	-4.66	1.33	1.44
22	b	6020	CLA	C3D-C4D	-4.66	1.33	1.44
22	B	1019	CLA	C3D-C4D	-4.66	1.33	1.44
22	B	1018	CLA	C3D-C4D	-4.66	1.33	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	K	1034	CLA	C3D-C4D	-4.66	1.33	1.44
22	B	1023	CLA	C3C-C2C	4.66	1.46	1.36
22	B	1016	CLA	C3D-C4D	-4.66	1.33	1.44
22	b	6024	CLA	C3D-C4D	-4.66	1.33	1.44
22	b	6016	CLA	C3D-C4D	-4.66	1.33	1.44
22	c	6037	CLA	C3D-C4D	-4.66	1.33	1.44
22	k	6034	CLA	C3D-C4D	-4.66	1.33	1.44
22	b	6019	CLA	C3D-C4D	-4.65	1.33	1.44
22	c	6026	CLA	C3D-C4D	-4.65	1.33	1.44
22	C	1028	CLA	C3D-C4D	-4.65	1.33	1.44
22	C	1031	CLA	C3D-C4D	-4.65	1.33	1.44
22	B	1024	CLA	C3D-C4D	-4.65	1.33	1.44
22	c	6028	CLA	C3D-C4D	-4.65	1.33	1.44
22	B	1020	CLA	C3D-C4D	-4.65	1.33	1.44
22	c	6035	CLA	C3D-C4D	-4.64	1.33	1.44
22	c	6033	CLA	C3D-C4D	-4.64	1.33	1.44
22	D	1008	CLA	C3C-C2C	4.63	1.46	1.36
22	B	1013	CLA	C3D-C4D	-4.63	1.33	1.44
23	d	6039	PHO	C3D-CAD	-4.63	1.38	1.47
22	b	6013	CLA	C3D-C4D	-4.63	1.33	1.44
22	c	6031	CLA	C3D-C4D	-4.63	1.33	1.44
22	d	6008	CLA	C3C-C2C	4.63	1.46	1.36
22	A	1003	CLA	C3D-C4D	-4.63	1.33	1.44
23	D	1039	PHO	C3D-CAD	-4.62	1.38	1.47
22	a	6003	CLA	C3D-C4D	-4.61	1.33	1.44
23	A	1038	PHO	C3D-CAD	-4.59	1.39	1.47
23	a	6038	PHO	C3D-CAD	-4.59	1.39	1.47
22	d	6005	CLA	CHC-C1C	4.56	1.47	1.38
22	c	6033	CLA	CHC-C1C	4.55	1.47	1.38
22	D	1005	CLA	CHC-C1C	4.54	1.47	1.38
22	C	1035	CLA	CHC-C1C	4.54	1.47	1.38
22	c	6035	CLA	CHC-C1C	4.53	1.47	1.38
22	b	6024	CLA	CHC-C1C	4.53	1.47	1.38
22	B	1016	CLA	CHC-C1C	4.52	1.47	1.38
22	A	1007	CLA	CHC-C1C	4.52	1.47	1.38
22	a	6007	CLA	CHC-C1C	4.51	1.47	1.38
22	C	1033	CLA	CHC-C1C	4.51	1.47	1.38
22	c	6026	CLA	CHC-C1C	4.51	1.47	1.38
22	b	6014	CLA	CHC-C1C	4.51	1.47	1.38
22	k	6034	CLA	CHC-C1C	4.51	1.47	1.38
22	b	6013	CLA	CHC-C1C	4.50	1.47	1.38
22	B	1024	CLA	CHC-C1C	4.50	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	D	1004	CLA	CHC-C1C	4.50	1.47	1.38
22	a	6006	CLA	CHC-C1C	4.50	1.47	1.38
22	B	1020	CLA	CHC-C1C	4.50	1.47	1.38
22	K	1034	CLA	CHC-C1C	4.50	1.47	1.38
22	a	6003	CLA	CHC-C1C	4.50	1.47	1.38
22	C	1028	CLA	CHC-C1C	4.50	1.47	1.38
22	B	1014	CLA	CHC-C1C	4.50	1.47	1.38
22	C	1025	CLA	CHC-C1C	4.49	1.47	1.38
22	C	1026	CLA	CHC-C1C	4.49	1.47	1.38
22	C	1031	CLA	CHC-C1C	4.49	1.47	1.38
22	B	1013	CLA	CHC-C1C	4.49	1.47	1.38
22	c	6028	CLA	CHC-C1C	4.49	1.47	1.38
22	c	6031	CLA	CHC-C1C	4.49	1.47	1.38
22	B	1019	CLA	CHC-C1C	4.49	1.47	1.38
22	A	1003	CLA	CHC-C1C	4.49	1.47	1.38
22	B	1018	CLA	CHC-C1C	4.49	1.47	1.38
22	b	6012	CLA	CHC-C1C	4.49	1.47	1.38
22	c	6025	CLA	CHC-C1C	4.49	1.47	1.38
22	H	1017	CLA	CHC-C1C	4.48	1.47	1.38
22	b	6016	CLA	CHC-C1C	4.48	1.47	1.38
22	b	6019	CLA	CHC-C1C	4.48	1.47	1.38
22	b	6020	CLA	CHC-C1C	4.48	1.47	1.38
22	B	1012	CLA	CHC-C1C	4.48	1.47	1.38
22	b	6018	CLA	CHC-C1C	4.48	1.47	1.38
22	C	1032	CLA	CHC-C1C	4.48	1.47	1.38
22	c	6032	CLA	CHC-C1C	4.48	1.47	1.38
22	c	6036	CLA	CHC-C1C	4.48	1.47	1.38
22	C	1027	CLA	CHC-C1C	4.48	1.47	1.38
22	B	1022	CLA	CHC-C1C	4.47	1.47	1.38
22	A	1006	CLA	CHC-C1C	4.47	1.47	1.38
22	b	6022	CLA	CHC-C1C	4.47	1.47	1.38
22	d	6004	CLA	CHC-C1C	4.47	1.47	1.38
22	B	1015	CLA	CHC-C1C	4.47	1.47	1.38
22	C	1037	CLA	CHC-C1C	4.47	1.47	1.38
22	c	6030	CLA	CHC-C1C	4.46	1.47	1.38
22	c	6027	CLA	CHC-C1C	4.45	1.47	1.38
22	C	1036	CLA	CHC-C1C	4.45	1.47	1.38
22	B	1018	CLA	CHD-C1D	4.45	1.47	1.38
22	C	1030	CLA	CHC-C1C	4.45	1.47	1.38
22	b	6018	CLA	CHD-C1D	4.45	1.47	1.38
22	h	6017	CLA	CHC-C1C	4.44	1.47	1.38
22	a	6007	CLA	CHD-C1D	4.44	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	c	6037	CLA	CHC-C1C	4.44	1.47	1.38
22	b	6015	CLA	CHC-C1C	4.44	1.47	1.38
22	c	6025	CLA	CHD-C1D	4.43	1.47	1.38
22	b	6016	CLA	CHD-C1D	4.43	1.47	1.38
22	b	6020	CLA	CHD-C1D	4.43	1.47	1.38
22	A	1007	CLA	CHD-C1D	4.42	1.47	1.38
22	d	6004	CLA	CHD-C1D	4.41	1.47	1.38
31	f	6040	HEM	FE-ND	4.41	2.08	1.94
22	d	6005	CLA	CHD-C1D	4.41	1.47	1.38
31	v	6041	HEM	FE-ND	4.41	2.08	1.94
22	D	1004	CLA	CHD-C1D	4.41	1.47	1.38
31	V	1041	HEM	FE-ND	4.41	2.08	1.94
22	b	6021	CLA	CHC-C1C	4.41	1.47	1.38
31	F	1040	HEM	FE-ND	4.41	2.08	1.94
22	C	1025	CLA	CHD-C1D	4.41	1.47	1.38
22	b	6013	CLA	CHD-C1D	4.41	1.47	1.38
22	h	6017	CLA	CHD-C1D	4.40	1.47	1.38
22	B	1014	CLA	CHD-C1D	4.40	1.47	1.38
22	a	6003	CLA	CHD-C1D	4.40	1.47	1.38
22	B	1021	CLA	CHC-C1C	4.40	1.47	1.38
22	B	1020	CLA	CHD-C1D	4.40	1.47	1.38
22	D	1005	CLA	CHD-C1D	4.40	1.47	1.38
22	B	1012	CLA	CHD-C1D	4.40	1.47	1.38
22	C	1032	CLA	CHD-C1D	4.40	1.47	1.38
22	c	6031	CLA	CHD-C1D	4.40	1.47	1.38
22	A	1003	CLA	CHD-C1D	4.40	1.47	1.38
22	c	6036	CLA	CHD-C1D	4.40	1.47	1.38
22	k	6034	CLA	CHD-C1D	4.40	1.47	1.38
22	c	6027	CLA	CHD-C1D	4.39	1.47	1.38
22	C	1036	CLA	CHD-C1D	4.39	1.47	1.38
22	K	1034	CLA	CHD-C1D	4.39	1.47	1.38
22	b	6023	CLA	CHC-C1C	4.39	1.47	1.38
22	B	1024	CLA	CHD-C1D	4.39	1.47	1.38
22	C	1031	CLA	CHD-C1D	4.38	1.47	1.38
22	c	6032	CLA	CHD-C1D	4.38	1.47	1.38
22	b	6019	CLA	CHD-C1D	4.38	1.47	1.38
22	B	1013	CLA	CHD-C1D	4.38	1.47	1.38
22	B	1015	CLA	CHD-C1D	4.38	1.47	1.38
22	C	1033	CLA	CHD-C1D	4.38	1.47	1.38
22	b	6015	CLA	CHD-C1D	4.38	1.47	1.38
22	C	1028	CLA	CHD-C1D	4.38	1.47	1.38
22	H	1017	CLA	CHD-C1D	4.38	1.47	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	1016	CLA	CHD-C1D	4.38	1.47	1.38
22	A	1006	CLA	CHD-C1D	4.37	1.47	1.38
22	b	6012	CLA	CHD-C1D	4.37	1.47	1.38
22	C	1027	CLA	CHD-C1D	4.37	1.47	1.38
22	C	1029	CLA	CHC-C1C	4.37	1.47	1.38
22	C	1037	CLA	CHD-C1D	4.37	1.47	1.38
22	C	1026	CLA	CHD-C1D	4.37	1.46	1.38
22	b	6014	CLA	CHD-C1D	4.37	1.46	1.38
22	B	1022	CLA	CHD-C1D	4.37	1.46	1.38
22	B	1023	CLA	CHC-C1C	4.37	1.47	1.38
22	c	6026	CLA	CHD-C1D	4.36	1.46	1.38
22	B	1010	CLA	CHC-C1C	4.36	1.47	1.38
22	C	1035	CLA	CHD-C1D	4.36	1.46	1.38
22	c	6029	CLA	CHC-C1C	4.36	1.47	1.38
22	b	6024	CLA	CHD-C1D	4.36	1.46	1.38
22	a	6006	CLA	CHD-C1D	4.36	1.46	1.38
22	B	1019	CLA	CHD-C1D	4.36	1.46	1.38
22	c	6028	CLA	CHD-C1D	4.36	1.46	1.38
22	c	6035	CLA	CHD-C1D	4.36	1.46	1.38
22	c	6033	CLA	CHD-C1D	4.35	1.46	1.38
22	b	6022	CLA	CHD-C1D	4.35	1.46	1.38
22	c	6037	CLA	CHD-C1D	4.35	1.46	1.38
22	b	6010	CLA	CHC-C1C	4.34	1.47	1.38
22	d	6008	CLA	CHC-C1C	4.34	1.47	1.38
22	B	1011	CLA	CHC-C1C	4.33	1.47	1.38
22	D	1008	CLA	CHC-C1C	4.33	1.47	1.38
22	d	6005	CLA	O2A-CGA	4.33	1.46	1.33
29	c	6057	DGD	O1G-C1A	4.32	1.45	1.33
29	c	6055	DGD	O1G-C1A	4.32	1.45	1.33
22	d	6008	CLA	CHD-C1D	4.32	1.46	1.38
22	D	1005	CLA	O2A-CGA	4.32	1.45	1.33
29	b	6058	DGD	O1G-C1A	4.31	1.45	1.33
22	c	6037	CLA	O2A-CGA	4.31	1.45	1.33
22	b	6015	CLA	O2A-CGA	4.31	1.45	1.33
22	B	1010	CLA	CHD-C1D	4.31	1.46	1.38
22	b	6016	CLA	O2A-CGA	4.31	1.45	1.33
22	c	6033	CLA	O2A-CGA	4.31	1.45	1.33
29	B	1058	DGD	O1G-C1A	4.31	1.45	1.33
22	c	6031	CLA	O2A-CGA	4.30	1.45	1.33
22	b	6011	CLA	CHC-C1C	4.30	1.47	1.38
28	b	6060	MGE	O1G-C1A	4.30	1.45	1.33
28	d	6062	MGE	O1G-C1A	4.30	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	z	6053	BCR	C17-C18	-4.30	1.25	1.35
22	C	1032	CLA	O2A-CGA	4.30	1.45	1.33
22	C	1037	CLA	O2A-CGA	4.30	1.45	1.33
25	k	6052	BCR	C17-C18	-4.30	1.25	1.35
22	b	6024	CLA	O2A-CGA	4.30	1.45	1.33
22	b	6012	CLA	O2A-CGA	4.30	1.45	1.33
22	B	1022	CLA	O2A-CGA	4.30	1.45	1.33
22	b	6022	CLA	O2A-CGA	4.30	1.45	1.33
26	A	1063	LHG	O8-C23	4.30	1.45	1.33
22	B	1009	CLA	CHC-C1C	4.30	1.47	1.38
22	d	6004	CLA	O2A-CGA	4.30	1.45	1.33
22	D	1004	CLA	O2A-CGA	4.30	1.45	1.33
29	C	1055	DGD	O1G-C1A	4.30	1.45	1.33
28	D	1062	MGE	O1G-C1A	4.30	1.45	1.33
22	B	1013	CLA	O2A-CGA	4.30	1.45	1.33
22	B	1021	CLA	CHD-C1D	4.29	1.46	1.38
25	d	6050	BCR	C21-C22	-4.29	1.25	1.35
22	C	1025	CLA	O2A-CGA	4.29	1.45	1.33
22	B	1016	CLA	O2A-CGA	4.29	1.45	1.33
22	C	1033	CLA	O2A-CGA	4.29	1.45	1.33
22	b	6023	CLA	CHD-C1D	4.29	1.46	1.38
22	k	6034	CLA	O2A-CGA	4.29	1.45	1.33
22	B	1020	CLA	O2A-CGA	4.29	1.45	1.33
22	C	1030	CLA	O2A-CGA	4.29	1.45	1.33
22	b	6013	CLA	O2A-CGA	4.29	1.45	1.33
25	T	6048	BCR	C21-C22	-4.29	1.25	1.35
25	D	1050	BCR	C21-C22	-4.29	1.25	1.35
26	a	6063	LHG	O8-C23	4.29	1.45	1.33
22	c	6032	CLA	O2A-CGA	4.29	1.45	1.33
28	D	1059	MGE	O1G-C1A	4.29	1.45	1.33
29	C	1057	DGD	O1G-C1A	4.29	1.45	1.33
25	B	1048	BCR	C17-C18	-4.29	1.25	1.35
22	B	1012	CLA	O2A-CGA	4.29	1.45	1.33
22	b	6010	CLA	CHD-C1D	4.29	1.46	1.38
22	b	6014	CLA	O2A-CGA	4.29	1.45	1.33
22	b	6019	CLA	O2A-CGA	4.29	1.45	1.33
28	L	1061	MGE	O1G-C1A	4.29	1.45	1.33
22	c	6029	CLA	CHD-C1D	4.29	1.46	1.38
22	B	1024	CLA	O2A-CGA	4.29	1.45	1.33
28	B	1060	MGE	O1G-C1A	4.29	1.45	1.33
22	C	1031	CLA	O2A-CGA	4.28	1.45	1.33
22	B	1009	CLA	CHD-C1D	4.28	1.46	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	a	6006	CLA	O2A-CGA	4.28	1.45	1.33
28	d	6059	MGE	O1G-C1A	4.28	1.45	1.33
25	Z	1053	BCR	C21-C22	-4.28	1.25	1.35
22	b	6009	CLA	CHC-C1C	4.28	1.47	1.38
22	C	1036	CLA	O2A-CGA	4.28	1.45	1.33
22	B	1015	CLA	O2A-CGA	4.28	1.45	1.33
22	B	1019	CLA	O2A-CGA	4.28	1.45	1.33
22	C	1035	CLA	O2A-CGA	4.28	1.45	1.33
22	B	1018	CLA	O2A-CGA	4.28	1.45	1.33
22	C	1026	CLA	O2A-CGA	4.28	1.45	1.33
29	C	1056	DGD	O1G-C1A	4.28	1.45	1.33
29	c	6056	DGD	O1G-C1A	4.28	1.45	1.33
22	c	6030	CLA	O2A-CGA	4.28	1.45	1.33
22	K	1034	CLA	O2A-CGA	4.28	1.45	1.33
22	b	6018	CLA	O2A-CGA	4.28	1.45	1.33
25	b	6047	BCR	C21-C22	-4.28	1.25	1.35
22	a	6007	CLA	O2A-CGA	4.28	1.45	1.33
22	B	1014	CLA	O2A-CGA	4.28	1.45	1.33
22	b	6009	CLA	CHD-C1D	4.28	1.46	1.38
22	c	6035	CLA	O2A-CGA	4.28	1.45	1.33
22	A	1006	CLA	O2A-CGA	4.27	1.45	1.33
22	c	6025	CLA	O2A-CGA	4.27	1.45	1.33
22	c	6036	CLA	O2A-CGA	4.27	1.45	1.33
22	C	1028	CLA	O2A-CGA	4.27	1.45	1.33
25	z	6053	BCR	C21-C22	-4.27	1.25	1.35
22	A	1007	CLA	O2A-CGA	4.27	1.45	1.33
22	H	1017	CLA	O2A-CGA	4.27	1.45	1.33
22	D	1008	CLA	CHD-C1D	4.27	1.46	1.38
22	C	1027	CLA	O2A-CGA	4.27	1.45	1.33
25	Z	1053	BCR	C17-C18	-4.27	1.25	1.35
25	D	1050	BCR	C17-C18	-4.27	1.25	1.35
22	b	6020	CLA	O2A-CGA	4.27	1.45	1.33
25	H	1049	BCR	C21-C22	-4.27	1.25	1.35
28	l	6061	MGE	O1G-C1A	4.26	1.45	1.33
22	c	6029	CLA	O2A-CGA	4.26	1.45	1.33
22	c	6028	CLA	O2A-CGA	4.26	1.45	1.33
22	C	1029	CLA	CHD-C1D	4.26	1.46	1.38
22	b	6021	CLA	CHD-C1D	4.26	1.46	1.38
22	B	1023	CLA	CHD-C1D	4.26	1.46	1.38
22	c	6026	CLA	O2A-CGA	4.26	1.45	1.33
22	B	1009	CLA	O2A-CGA	4.26	1.45	1.33
22	B	1010	CLA	O2A-CGA	4.26	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	C	1054	BCR	C17-C18	-4.26	1.25	1.35
22	A	1003	CLA	O2A-CGA	4.26	1.45	1.33
25	B	1045	BCR	C17-C18	-4.26	1.26	1.35
22	B	1011	CLA	CHD-C1D	4.26	1.46	1.38
22	D	1008	CLA	O2A-CGA	4.26	1.45	1.33
22	c	6027	CLA	O2A-CGA	4.26	1.45	1.33
22	h	6017	CLA	O2A-CGA	4.25	1.45	1.33
25	C	1052	BCR	C17-C18	-4.25	1.26	1.35
25	B	1048	BCR	C21-C22	-4.25	1.26	1.35
25	B	1047	BCR	C21-C22	-4.25	1.26	1.35
25	K	1051	BCR	C21-C22	-4.25	1.26	1.35
22	d	6008	CLA	O2A-CGA	4.25	1.45	1.33
25	b	6045	BCR	C17-C18	-4.25	1.26	1.35
25	B	1047	BCR	C17-C18	-4.25	1.26	1.35
25	T	6048	BCR	C17-C18	-4.25	1.26	1.35
22	a	6003	CLA	O2A-CGA	4.25	1.45	1.33
25	C	1054	BCR	C21-C22	-4.25	1.26	1.35
22	B	1021	CLA	O2A-CGA	4.25	1.45	1.33
22	C	1029	CLA	O2A-CGA	4.25	1.45	1.33
25	K	1051	BCR	C17-C18	-4.25	1.26	1.35
22	B	1023	CLA	O2A-CGA	4.25	1.45	1.33
25	k	6051	BCR	C21-C22	-4.25	1.26	1.35
25	H	1049	BCR	C17-C18	-4.24	1.26	1.35
22	b	6011	CLA	CHD-C1D	4.24	1.46	1.38
25	k	6051	BCR	C17-C18	-4.24	1.26	1.35
25	d	6050	BCR	C17-C18	-4.24	1.26	1.35
25	k	6052	BCR	C21-C22	-4.24	1.26	1.35
22	b	6010	CLA	O2A-CGA	4.24	1.45	1.33
22	b	6009	CLA	O2A-CGA	4.24	1.45	1.33
25	c	6054	BCR	C21-C22	-4.24	1.26	1.35
22	b	6011	CLA	O2A-CGA	4.24	1.45	1.33
25	B	1045	BCR	C21-C22	-4.24	1.26	1.35
25	C	1052	BCR	C21-C22	-4.24	1.26	1.35
25	c	6054	BCR	C17-C18	-4.24	1.26	1.35
25	h	6049	BCR	C21-C22	-4.24	1.26	1.35
22	b	6023	CLA	O2A-CGA	4.23	1.45	1.33
25	b	6045	BCR	C21-C22	-4.23	1.26	1.35
25	b	6047	BCR	C17-C18	-4.22	1.26	1.35
22	c	6030	CLA	CHD-C1D	4.22	1.46	1.38
22	B	1011	CLA	O2A-CGA	4.22	1.45	1.33
25	h	6049	BCR	C17-C18	-4.22	1.26	1.35
22	b	6021	CLA	O2A-CGA	4.22	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	C	1030	CLA	CHD-C1D	4.21	1.46	1.38
25	T	6046	BCR	C17-C18	-4.14	1.26	1.35
25	A	1044	BCR	C17-C18	-4.13	1.26	1.35
26	A	1063	LHG	O7-C7	4.13	1.45	1.34
25	t	1046	BCR	C17-C18	-4.12	1.26	1.35
26	a	6063	LHG	O7-C7	4.12	1.45	1.34
25	A	1044	BCR	C21-C22	-4.12	1.26	1.35
29	c	6055	DGD	O2G-C1B	4.12	1.45	1.34
28	l	6061	MGE	O2G-C1B	4.12	1.45	1.34
22	b	6015	CLA	CHD-C4C	4.11	1.48	1.39
22	c	6035	CLA	CHD-C4C	4.11	1.48	1.39
25	a	6044	BCR	C21-C22	-4.11	1.26	1.35
28	d	6062	MGE	O2G-C1B	4.11	1.45	1.34
22	C	1027	CLA	CHD-C4C	4.11	1.48	1.39
22	b	6020	CLA	CHD-C4C	4.11	1.48	1.39
28	d	6059	MGE	O2G-C1B	4.11	1.45	1.34
22	b	6022	CLA	CHD-C4C	4.11	1.48	1.39
28	D	1059	MGE	O2G-C1B	4.11	1.45	1.34
29	C	1055	DGD	O2G-C1B	4.11	1.45	1.34
29	B	1058	DGD	O2G-C1B	4.11	1.45	1.34
28	b	6060	MGE	O2G-C1B	4.10	1.45	1.34
22	B	1015	CLA	CHD-C4C	4.10	1.48	1.39
22	c	6027	CLA	CHD-C4C	4.10	1.48	1.39
28	D	1062	MGE	O2G-C1B	4.10	1.45	1.34
22	D	1004	CLA	CHD-C4C	4.10	1.48	1.39
29	b	6058	DGD	O2G-C1B	4.10	1.45	1.34
22	B	1020	CLA	CHD-C4C	4.10	1.48	1.39
28	L	1061	MGE	O2G-C1B	4.10	1.45	1.34
22	B	1014	CLA	CHD-C4C	4.09	1.48	1.39
28	B	1060	MGE	O2G-C1B	4.09	1.45	1.34
22	d	6004	CLA	CHD-C4C	4.09	1.48	1.39
22	B	1013	CLA	CHD-C4C	4.09	1.48	1.39
25	a	6044	BCR	C17-C18	-4.09	1.26	1.35
22	c	6033	CLA	CHD-C4C	4.09	1.48	1.39
22	K	1034	CLA	CHD-C4C	4.09	1.48	1.39
22	c	6025	CLA	CHD-C4C	4.09	1.48	1.39
29	c	6056	DGD	O2G-C1B	4.09	1.45	1.34
22	C	1025	CLA	CHD-C4C	4.09	1.48	1.39
29	C	1057	DGD	O2G-C1B	4.09	1.45	1.34
22	b	6016	CLA	CHD-C4C	4.09	1.48	1.39
22	c	6028	CLA	CHD-C4C	4.09	1.48	1.39
22	k	6034	CLA	CHD-C4C	4.09	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	T	6046	BCR	C21-C22	-4.09	1.26	1.35
22	B	1016	CLA	CHD-C4C	4.08	1.48	1.39
22	H	1017	CLA	CHD-C4C	4.08	1.48	1.39
22	B	1022	CLA	CHD-C4C	4.08	1.48	1.39
22	h	6017	CLA	CHD-C4C	4.08	1.48	1.39
22	C	1033	CLA	CHD-C4C	4.08	1.48	1.39
22	c	6036	CLA	CHD-C4C	4.08	1.48	1.39
22	C	1032	CLA	CHD-C4C	4.08	1.48	1.39
22	a	6003	CLA	CHD-C4C	4.08	1.48	1.39
22	b	6019	CLA	CHD-C4C	4.08	1.48	1.39
22	c	6032	CLA	CHD-C4C	4.08	1.48	1.39
22	C	1031	CLA	CHD-C4C	4.08	1.48	1.39
22	c	6026	CLA	CHD-C4C	4.08	1.48	1.39
22	C	1037	CLA	CHD-C4C	4.08	1.48	1.39
22	c	6037	CLA	CHD-C4C	4.08	1.48	1.39
29	c	6057	DGD	O2G-C1B	4.08	1.45	1.34
22	b	6014	CLA	CHD-C4C	4.07	1.48	1.39
22	C	1035	CLA	CHD-C4C	4.07	1.48	1.39
29	C	1056	DGD	O2G-C1B	4.07	1.45	1.34
31	v	6041	HEM	FE-NB	4.07	2.07	1.94
22	C	1028	CLA	CHD-C4C	4.07	1.48	1.39
22	A	1003	CLA	CHD-C4C	4.07	1.48	1.39
22	C	1036	CLA	CHD-C4C	4.07	1.48	1.39
31	f	6040	HEM	FE-NB	4.06	2.07	1.94
22	C	1026	CLA	CHD-C4C	4.06	1.48	1.39
22	B	1024	CLA	CHD-C4C	4.06	1.48	1.39
25	t	1046	BCR	C21-C22	-4.06	1.26	1.35
22	B	1019	CLA	CHD-C4C	4.06	1.48	1.39
31	V	1041	HEM	FE-NB	4.06	2.07	1.94
22	b	6013	CLA	CHD-C4C	4.06	1.48	1.39
22	B	1012	CLA	CHD-C4C	4.05	1.48	1.39
22	A	1006	CLA	CHD-C4C	4.05	1.48	1.39
31	F	1040	HEM	FE-NB	4.05	2.07	1.94
22	a	6006	CLA	CHD-C4C	4.05	1.48	1.39
22	b	6024	CLA	CHD-C4C	4.05	1.48	1.39
22	c	6031	CLA	CHD-C4C	4.05	1.48	1.39
22	b	6018	CLA	CHD-C4C	4.04	1.48	1.39
22	D	1005	CLA	CHD-C4C	4.04	1.48	1.39
22	d	6005	CLA	CHD-C4C	4.03	1.48	1.39
22	A	1007	CLA	CHD-C4C	4.03	1.48	1.39
22	a	6007	CLA	CHD-C4C	4.03	1.48	1.39
22	b	6012	CLA	CHD-C4C	4.03	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	1018	CLA	CHD-C4C	4.03	1.48	1.39
22	b	6010	CLA	CHD-C4C	4.02	1.48	1.39
22	d	6008	CLA	CHD-C4C	4.01	1.48	1.39
22	B	1021	CLA	CHD-C4C	4.01	1.48	1.39
22	D	1008	CLA	CHD-C4C	4.01	1.48	1.39
22	b	6021	CLA	CHD-C4C	4.00	1.48	1.39
22	C	1029	CLA	CHD-C4C	3.99	1.48	1.39
22	B	1010	CLA	CHD-C4C	3.99	1.48	1.39
22	b	6023	CLA	CHD-C4C	3.98	1.48	1.39
22	B	1023	CLA	CHD-C4C	3.97	1.48	1.39
22	C	1030	CLA	CHD-C4C	3.97	1.48	1.39
22	B	1009	CLA	CHD-C4C	3.97	1.48	1.39
22	b	6009	CLA	CHD-C4C	3.97	1.48	1.39
22	b	6011	CLA	CHD-C4C	3.96	1.48	1.39
22	B	1011	CLA	CHD-C4C	3.95	1.48	1.39
22	c	6029	CLA	CHD-C4C	3.95	1.48	1.39
22	c	6030	CLA	CHD-C4C	3.93	1.48	1.39
22	c	6037	CLA	OBD-CAD	3.83	1.29	1.22
22	b	6014	CLA	OBD-CAD	3.83	1.29	1.22
22	c	6035	CLA	OBD-CAD	3.81	1.29	1.22
22	B	1014	CLA	OBD-CAD	3.81	1.29	1.22
22	h	6017	CLA	OBD-CAD	3.81	1.29	1.22
22	c	6032	CLA	OBD-CAD	3.79	1.29	1.22
22	C	1025	CLA	OBD-CAD	3.79	1.29	1.22
22	C	1037	CLA	OBD-CAD	3.79	1.29	1.22
22	D	1004	CLA	OBD-CAD	3.79	1.29	1.22
22	C	1032	CLA	OBD-CAD	3.78	1.29	1.22
22	C	1035	CLA	OBD-CAD	3.78	1.29	1.22
22	c	6025	CLA	OBD-CAD	3.78	1.29	1.22
22	b	6015	CLA	OBD-CAD	3.78	1.29	1.22
22	b	6019	CLA	OBD-CAD	3.78	1.29	1.22
22	b	6018	CLA	OBD-CAD	3.77	1.29	1.22
22	b	6021	CLA	OBD-CAD	3.77	1.29	1.22
22	B	1024	CLA	OBD-CAD	3.77	1.29	1.22
22	d	6004	CLA	OBD-CAD	3.77	1.29	1.22
22	c	6033	CLA	OBD-CAD	3.77	1.29	1.22
22	C	1036	CLA	OBD-CAD	3.77	1.29	1.22
22	k	6034	CLA	OBD-CAD	3.76	1.29	1.22
22	B	1015	CLA	OBD-CAD	3.76	1.29	1.22
22	B	1019	CLA	OBD-CAD	3.76	1.29	1.22
22	B	1018	CLA	OBD-CAD	3.76	1.29	1.22
22	H	1017	CLA	OBD-CAD	3.76	1.29	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	C	1028	CLA	OBD-CAD	3.76	1.29	1.22
22	B	1020	CLA	OBD-CAD	3.75	1.28	1.22
22	C	1033	CLA	OBD-CAD	3.75	1.28	1.22
22	c	6031	CLA	OBD-CAD	3.75	1.28	1.22
22	B	1021	CLA	OBD-CAD	3.75	1.28	1.22
22	B	1022	CLA	OBD-CAD	3.75	1.28	1.22
22	C	1031	CLA	OBD-CAD	3.75	1.28	1.22
22	b	6024	CLA	OBD-CAD	3.75	1.28	1.22
22	c	6027	CLA	OBD-CAD	3.75	1.28	1.22
22	B	1013	CLA	OBD-CAD	3.74	1.28	1.22
22	B	1012	CLA	OBD-CAD	3.74	1.28	1.22
22	a	6003	CLA	OBD-CAD	3.74	1.28	1.22
22	D	1005	CLA	OBD-CAD	3.74	1.28	1.22
22	c	6028	CLA	OBD-CAD	3.74	1.28	1.22
22	A	1006	CLA	OBD-CAD	3.74	1.28	1.22
22	b	6022	CLA	OBD-CAD	3.74	1.28	1.22
22	C	1027	CLA	OBD-CAD	3.73	1.28	1.22
22	b	6016	CLA	OBD-CAD	3.73	1.28	1.22
22	B	1016	CLA	OBD-CAD	3.73	1.28	1.22
22	d	6005	CLA	OBD-CAD	3.73	1.28	1.22
22	b	6012	CLA	OBD-CAD	3.73	1.28	1.22
22	b	6020	CLA	OBD-CAD	3.73	1.28	1.22
22	c	6036	CLA	OBD-CAD	3.73	1.28	1.22
22	a	6007	CLA	OBD-CAD	3.72	1.28	1.22
22	A	1007	CLA	OBD-CAD	3.72	1.28	1.22
22	K	1034	CLA	OBD-CAD	3.72	1.28	1.22
22	A	1003	CLA	OBD-CAD	3.72	1.28	1.22
22	c	6026	CLA	OBD-CAD	3.72	1.28	1.22
22	b	6013	CLA	OBD-CAD	3.71	1.28	1.22
22	a	6006	CLA	OBD-CAD	3.70	1.28	1.22
22	C	1026	CLA	OBD-CAD	3.70	1.28	1.22
22	b	6011	CLA	OBD-CAD	3.68	1.28	1.22
22	B	1011	CLA	OBD-CAD	3.65	1.28	1.22
22	b	6009	CLA	OBD-CAD	3.62	1.28	1.22
22	B	1023	CLA	OBD-CAD	3.61	1.28	1.22
22	b	6023	CLA	OBD-CAD	3.61	1.28	1.22
22	c	6029	CLA	OBD-CAD	3.61	1.28	1.22
22	B	1009	CLA	OBD-CAD	3.60	1.28	1.22
22	C	1030	CLA	OBD-CAD	3.59	1.28	1.22
22	D	1008	CLA	OBD-CAD	3.59	1.28	1.22
22	b	6010	CLA	OBD-CAD	3.58	1.28	1.22
22	d	6008	CLA	OBD-CAD	3.58	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	C	1029	CLA	OBD-CAD	3.58	1.28	1.22
22	a	6007	CLA	CHC-C4B	3.57	1.47	1.39
22	c	6037	CLA	CHC-C4B	3.56	1.47	1.39
22	b	6015	CLA	CHC-C4B	3.56	1.47	1.39
22	c	6030	CLA	OBD-CAD	3.54	1.28	1.22
22	b	6020	CLA	CHC-C4B	3.54	1.47	1.39
22	B	1015	CLA	CHC-C4B	3.54	1.47	1.39
22	H	1017	CLA	CHC-C4B	3.54	1.47	1.39
22	B	1010	CLA	OBD-CAD	3.54	1.28	1.22
22	C	1037	CLA	CHC-C4B	3.54	1.47	1.39
22	b	6018	CLA	CHC-C4B	3.53	1.47	1.39
22	c	6036	CLA	CHC-C4B	3.53	1.47	1.39
22	A	1007	CLA	CHC-C4B	3.53	1.47	1.39
22	c	6027	CLA	CHC-C4B	3.53	1.47	1.39
22	a	6003	CLA	CHC-C4B	3.53	1.47	1.39
22	b	6012	CLA	CHC-C4B	3.52	1.47	1.39
22	b	6016	CLA	CHC-C4B	3.52	1.47	1.39
22	k	6034	CLA	CHC-C4B	3.52	1.47	1.39
22	B	1013	CLA	CHC-C4B	3.52	1.47	1.39
22	B	1016	CLA	CHC-C4B	3.52	1.47	1.39
22	B	1012	CLA	CHC-C4B	3.52	1.47	1.39
22	B	1020	CLA	CHC-C4B	3.52	1.47	1.39
22	A	1003	CLA	CHC-C4B	3.52	1.47	1.39
22	B	1018	CLA	CHC-C4B	3.52	1.47	1.39
22	b	6013	CLA	CHC-C4B	3.52	1.47	1.39
22	h	6017	CLA	CHC-C4B	3.52	1.47	1.39
22	B	1022	CLA	CHC-C4B	3.51	1.47	1.39
22	C	1035	CLA	CHC-C4B	3.51	1.47	1.39
22	a	6006	CLA	CHC-C4B	3.51	1.47	1.39
22	c	6033	CLA	CHC-C4B	3.51	1.47	1.39
22	C	1027	CLA	CHC-C4B	3.51	1.47	1.39
22	c	6026	CLA	CHC-C4B	3.51	1.47	1.39
22	C	1026	CLA	CHC-C4B	3.51	1.47	1.39
22	b	6019	CLA	CHC-C4B	3.51	1.47	1.39
22	c	6031	CLA	CHC-C4B	3.50	1.47	1.39
22	B	1019	CLA	CHC-C4B	3.50	1.47	1.39
22	C	1036	CLA	CHC-C4B	3.50	1.47	1.39
22	A	1006	CLA	CHC-C4B	3.50	1.47	1.39
22	C	1031	CLA	CHC-C4B	3.50	1.47	1.39
22	b	6022	CLA	CHC-C4B	3.50	1.47	1.39
22	C	1025	CLA	CHC-C4B	3.49	1.47	1.39
22	c	6025	CLA	CHC-C4B	3.49	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	C	1032	CLA	CHC-C4B	3.49	1.47	1.39
22	K	1034	CLA	CHC-C4B	3.49	1.47	1.39
22	D	1004	CLA	CHC-C4B	3.49	1.47	1.39
22	C	1033	CLA	CHC-C4B	3.49	1.47	1.39
22	B	1014	CLA	CHC-C4B	3.49	1.47	1.39
22	c	6035	CLA	CHC-C4B	3.49	1.47	1.39
22	c	6032	CLA	CHC-C4B	3.48	1.47	1.39
22	b	6023	CLA	CHC-C4B	3.47	1.47	1.39
22	D	1005	CLA	CHC-C4B	3.47	1.47	1.39
22	c	6028	CLA	CHC-C4B	3.47	1.47	1.39
22	B	1024	CLA	CHC-C4B	3.47	1.47	1.39
22	C	1028	CLA	CHC-C4B	3.47	1.47	1.39
22	b	6014	CLA	CHC-C4B	3.47	1.47	1.39
22	d	6005	CLA	CHC-C4B	3.46	1.47	1.39
22	b	6024	CLA	CHC-C4B	3.46	1.47	1.39
22	d	6004	CLA	CHC-C4B	3.45	1.47	1.39
22	B	1023	CLA	CHC-C4B	3.45	1.47	1.39
22	b	6011	CLA	CHC-C4B	3.42	1.47	1.39
22	b	6009	CLA	CHC-C4B	3.41	1.47	1.39
22	B	1009	CLA	CHC-C4B	3.41	1.47	1.39
22	B	1021	CLA	CHC-C4B	3.40	1.47	1.39
22	b	6010	CLA	CHC-C4B	3.40	1.47	1.39
22	B	1011	CLA	CHC-C4B	3.39	1.47	1.39
23	d	6039	PHO	CBB-CAB	3.38	1.50	1.29
22	C	1030	CLA	CHC-C4B	3.38	1.47	1.39
23	D	1039	PHO	CBB-CAB	3.38	1.50	1.29
22	d	6008	CLA	CHC-C4B	3.38	1.47	1.39
22	B	1010	CLA	CHC-C4B	3.37	1.47	1.39
22	c	6030	CLA	CHC-C4B	3.37	1.47	1.39
22	b	6021	CLA	CHC-C4B	3.37	1.47	1.39
23	a	6038	PHO	CBB-CAB	3.37	1.50	1.29
22	C	1029	CLA	CHC-C4B	3.37	1.47	1.39
22	D	1008	CLA	CHC-C4B	3.37	1.47	1.39
22	c	6029	CLA	CHC-C4B	3.36	1.47	1.39
23	A	1038	PHO	CBB-CAB	3.36	1.50	1.29
22	b	6009	CLA	CHB-C1B	3.34	1.46	1.39
22	B	1014	CLA	CHB-C1B	3.33	1.46	1.39
22	d	6005	CLA	CHB-C1B	3.33	1.46	1.39
22	c	6031	CLA	CHB-C1B	3.33	1.46	1.39
22	b	6014	CLA	CHB-C1B	3.33	1.46	1.39
22	a	6006	CLA	CHB-C1B	3.33	1.46	1.39
22	C	1037	CLA	CHB-C1B	3.33	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	d	6008	CLA	CHB-C1B	3.33	1.46	1.39
22	h	6017	CLA	CHB-C1B	3.33	1.46	1.39
22	B	1009	CLA	CHB-C1B	3.33	1.46	1.39
22	B	1019	CLA	CHB-C1B	3.32	1.46	1.39
22	b	6024	CLA	CHB-C1B	3.32	1.46	1.39
22	c	6035	CLA	CHB-C1B	3.32	1.46	1.39
22	C	1035	CLA	CHB-C1B	3.32	1.46	1.39
22	C	1027	CLA	CHB-C1B	3.32	1.46	1.39
22	B	1013	CLA	CHB-C1B	3.32	1.46	1.39
22	C	1025	CLA	CHB-C1B	3.32	1.46	1.39
22	C	1026	CLA	CHB-C1B	3.32	1.46	1.39
22	c	6027	CLA	CHB-C1B	3.32	1.46	1.39
22	D	1008	CLA	CHB-C1B	3.32	1.46	1.39
22	a	6003	CLA	CHB-C1B	3.32	1.46	1.39
22	B	1020	CLA	CHB-C1B	3.32	1.46	1.39
22	C	1031	CLA	CHB-C1B	3.31	1.46	1.39
22	b	6019	CLA	CHB-C1B	3.31	1.46	1.39
22	c	6037	CLA	CHB-C1B	3.31	1.46	1.39
22	d	6004	CLA	CHB-C1B	3.31	1.46	1.39
22	A	1007	CLA	CHB-C1B	3.31	1.46	1.39
22	A	1003	CLA	CHB-C1B	3.31	1.46	1.39
22	B	1016	CLA	CHB-C1B	3.31	1.46	1.39
22	D	1005	CLA	CHB-C1B	3.31	1.46	1.39
22	B	1010	CLA	CHB-C1B	3.31	1.46	1.39
22	c	6025	CLA	CHB-C1B	3.31	1.46	1.39
22	A	1006	CLA	CHB-C1B	3.31	1.46	1.39
22	C	1036	CLA	CHB-C1B	3.30	1.46	1.39
22	c	6026	CLA	CHB-C1B	3.30	1.46	1.39
22	C	1033	CLA	CHB-C1B	3.30	1.46	1.39
22	c	6029	CLA	CHB-C1B	3.30	1.46	1.39
22	B	1024	CLA	CHB-C1B	3.30	1.46	1.39
22	c	6036	CLA	CHB-C1B	3.30	1.46	1.39
22	c	6028	CLA	CHB-C1B	3.30	1.46	1.39
22	B	1023	CLA	CHB-C1B	3.30	1.46	1.39
22	C	1029	CLA	CHB-C1B	3.30	1.46	1.39
22	H	1017	CLA	CHB-C1B	3.29	1.46	1.39
22	c	6033	CLA	CHB-C1B	3.29	1.46	1.39
22	D	1004	CLA	CHB-C1B	3.29	1.46	1.39
22	b	6011	CLA	CHB-C1B	3.29	1.46	1.39
22	b	6020	CLA	CHB-C1B	3.29	1.46	1.39
22	b	6023	CLA	CHB-C1B	3.29	1.46	1.39
22	C	1028	CLA	CHB-C1B	3.29	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	b	6010	CLA	CHB-C1B	3.29	1.46	1.39
22	b	6013	CLA	CHB-C1B	3.29	1.46	1.39
22	b	6018	CLA	CHB-C1B	3.29	1.46	1.39
22	B	1015	CLA	CHB-C1B	3.29	1.46	1.39
22	B	1018	CLA	CHB-C1B	3.28	1.46	1.39
22	K	1034	CLA	CHB-C1B	3.28	1.46	1.39
22	C	1032	CLA	CHB-C1B	3.28	1.46	1.39
22	b	6015	CLA	CHB-C1B	3.28	1.46	1.39
22	b	6016	CLA	CHB-C1B	3.28	1.46	1.39
22	a	6007	CLA	CHB-C1B	3.27	1.46	1.39
22	B	1012	CLA	CHB-C1B	3.27	1.46	1.39
22	c	6032	CLA	CHB-C1B	3.27	1.46	1.39
22	B	1022	CLA	CHB-C1B	3.27	1.46	1.39
22	B	1011	CLA	CHB-C1B	3.27	1.46	1.39
22	b	6012	CLA	CHB-C1B	3.27	1.46	1.39
22	k	6034	CLA	CHB-C1B	3.27	1.46	1.39
22	C	1030	CLA	CHB-C1B	3.26	1.46	1.39
22	c	6030	CLA	CHB-C1B	3.26	1.46	1.39
22	b	6022	CLA	CHB-C1B	3.25	1.46	1.39
22	B	1021	CLA	CHB-C1B	3.25	1.46	1.39
22	b	6021	CLA	CHB-C1B	3.24	1.46	1.39
31	v	6041	HEM	FE-NA	3.24	2.05	1.95
31	V	1041	HEM	FE-NC	3.23	2.05	1.95
31	F	1040	HEM	FE-NC	3.23	2.05	1.95
31	v	6041	HEM	FE-NC	3.22	2.05	1.95
31	f	6040	HEM	FE-NC	3.22	2.05	1.95
31	V	1041	HEM	FE-NA	3.21	2.05	1.95
31	F	1040	HEM	FE-NA	3.21	2.05	1.95
31	f	6040	HEM	FE-NA	3.20	2.05	1.95
23	a	6038	PHO	O2D-CGD	-3.18	1.25	1.33
23	A	1038	PHO	O2D-CGD	-3.17	1.25	1.33
23	D	1039	PHO	O2D-CGD	-3.16	1.25	1.33
23	d	6039	PHO	O2D-CGD	-3.15	1.25	1.33
22	c	6036	CLA	C1D-C2D	3.14	1.51	1.45
22	b	6013	CLA	C1D-C2D	3.14	1.51	1.45
22	B	1024	CLA	C1D-C2D	3.13	1.51	1.45
22	C	1026	CLA	C1D-C2D	3.13	1.51	1.45
22	B	1019	CLA	C1D-C2D	3.12	1.51	1.45
22	d	6004	CLA	C1D-C2D	3.12	1.51	1.45
25	d	6050	BCR	C24-C25	-3.12	1.34	1.45
22	B	1013	CLA	C1D-C2D	3.12	1.51	1.45
22	a	6006	CLA	C1D-C2D	3.12	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	b	6024	CLA	C1D-C2D	3.12	1.51	1.45
25	D	1050	BCR	C24-C25	-3.12	1.34	1.45
22	C	1027	CLA	C1D-C2D	3.11	1.51	1.45
22	c	6028	CLA	C1D-C2D	3.11	1.51	1.45
25	Z	1053	BCR	C24-C25	-3.11	1.34	1.45
22	b	6019	CLA	C1D-C2D	3.11	1.51	1.45
25	z	6053	BCR	C24-C25	-3.11	1.34	1.45
22	a	6003	CLA	C1D-C2D	3.11	1.51	1.45
22	C	1028	CLA	C1D-C2D	3.11	1.51	1.45
22	b	6022	CLA	C1D-C2D	3.11	1.51	1.45
22	C	1036	CLA	C1D-C2D	3.11	1.51	1.45
25	k	6051	BCR	C24-C25	-3.10	1.34	1.45
22	C	1032	CLA	C1D-C2D	3.10	1.51	1.45
22	C	1037	CLA	C1D-C2D	3.10	1.51	1.45
22	h	6017	CLA	C1D-C2D	3.10	1.51	1.45
22	B	1016	CLA	C1D-C2D	3.10	1.51	1.45
22	c	6037	CLA	C1D-C2D	3.10	1.51	1.45
22	D	1005	CLA	C1D-C2D	3.10	1.51	1.45
22	b	6016	CLA	C1D-C2D	3.10	1.51	1.45
25	b	6045	BCR	C24-C25	-3.10	1.34	1.45
22	c	6026	CLA	C1D-C2D	3.10	1.51	1.45
25	K	1051	BCR	C24-C25	-3.09	1.34	1.45
22	c	6027	CLA	C1D-C2D	3.09	1.51	1.45
22	H	1017	CLA	C1D-C2D	3.09	1.51	1.45
25	B	1045	BCR	C24-C25	-3.09	1.34	1.45
22	c	6031	CLA	C1D-C2D	3.09	1.51	1.45
22	D	1004	CLA	C1D-C2D	3.09	1.51	1.45
22	c	6033	CLA	C1D-C2D	3.09	1.51	1.45
22	B	1022	CLA	C1D-C2D	3.08	1.51	1.45
22	A	1003	CLA	C1D-C2D	3.08	1.51	1.45
22	b	6012	CLA	C3D-C2D	3.08	1.47	1.39
25	C	1054	BCR	C24-C25	-3.08	1.34	1.45
22	B	1012	CLA	C1D-C2D	3.08	1.51	1.45
22	b	6018	CLA	C1D-C2D	3.08	1.51	1.45
23	a	6038	PHO	C3B-C4B	-3.08	1.38	1.41
22	b	6014	CLA	C1D-C2D	3.08	1.51	1.45
22	d	6005	CLA	C1D-C2D	3.08	1.51	1.45
22	a	6007	CLA	C1D-C2D	3.08	1.51	1.45
22	k	6034	CLA	C3D-C2D	3.08	1.47	1.39
22	b	6012	CLA	C1D-C2D	3.08	1.51	1.45
22	A	1007	CLA	C1D-C2D	3.08	1.51	1.45
22	C	1025	CLA	C3D-C2D	3.08	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	c	6026	CLA	C3D-C2D	3.08	1.47	1.39
22	A	1006	CLA	C1D-C2D	3.08	1.51	1.45
22	B	1018	CLA	C1D-C2D	3.08	1.51	1.45
22	C	1025	CLA	C1D-C2D	3.08	1.51	1.45
22	b	6018	CLA	C3D-C2D	3.08	1.47	1.39
22	D	1005	CLA	C3D-C2D	3.07	1.47	1.39
22	B	1014	CLA	C1D-C2D	3.07	1.51	1.45
22	B	1015	CLA	C1D-C2D	3.07	1.51	1.45
23	D	1039	PHO	C3B-C4B	-3.07	1.38	1.41
22	C	1035	CLA	C1D-C2D	3.07	1.51	1.45
22	c	6035	CLA	C3D-C2D	3.07	1.47	1.39
22	b	6015	CLA	C1D-C2D	3.07	1.51	1.45
22	c	6032	CLA	C1D-C2D	3.07	1.51	1.45
22	b	6022	CLA	C3D-C2D	3.07	1.47	1.39
22	C	1031	CLA	C3D-C2D	3.07	1.47	1.39
22	C	1036	CLA	C3D-C2D	3.07	1.47	1.39
22	C	1033	CLA	C1D-C2D	3.07	1.51	1.45
22	B	1016	CLA	C3D-C2D	3.07	1.47	1.39
22	K	1034	CLA	C3D-C2D	3.07	1.47	1.39
22	C	1026	CLA	C3D-C2D	3.07	1.47	1.39
22	a	6003	CLA	C3D-C2D	3.07	1.47	1.39
22	c	6037	CLA	C3D-C2D	3.07	1.47	1.39
25	c	6054	BCR	C24-C25	-3.07	1.34	1.45
22	b	6019	CLA	C3D-C2D	3.07	1.47	1.39
22	C	1037	CLA	C3D-C2D	3.06	1.47	1.39
25	h	6049	BCR	C24-C25	-3.06	1.34	1.45
22	a	6006	CLA	C3D-C2D	3.06	1.47	1.39
22	c	6032	CLA	C3D-C2D	3.06	1.47	1.39
22	C	1032	CLA	C3D-C2D	3.06	1.47	1.39
22	c	6035	CLA	C1D-C2D	3.06	1.51	1.45
22	B	1022	CLA	C3D-C2D	3.06	1.47	1.39
25	H	1049	BCR	C24-C25	-3.06	1.34	1.45
25	t	1046	BCR	C24-C25	-3.06	1.34	1.45
22	B	1019	CLA	C3D-C2D	3.06	1.47	1.39
22	A	1003	CLA	C3D-C2D	3.06	1.47	1.39
22	C	1031	CLA	C1D-C2D	3.06	1.51	1.45
22	b	6016	CLA	C3D-C2D	3.06	1.47	1.39
22	B	1018	CLA	C3D-C2D	3.06	1.47	1.39
22	c	6025	CLA	C3D-C2D	3.06	1.47	1.39
22	d	6005	CLA	C3D-C2D	3.06	1.47	1.39
22	C	1033	CLA	C3D-C2D	3.05	1.47	1.39
22	B	1012	CLA	C3D-C2D	3.05	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	K	1034	CLA	C1D-C2D	3.05	1.51	1.45
22	b	6020	CLA	C3D-C2D	3.05	1.47	1.39
22	c	6036	CLA	C3D-C2D	3.05	1.47	1.39
22	B	1020	CLA	C1D-C2D	3.05	1.51	1.45
22	c	6025	CLA	C1D-C2D	3.05	1.51	1.45
22	B	1015	CLA	C3D-C2D	3.05	1.47	1.39
22	B	1020	CLA	C3D-C2D	3.05	1.47	1.39
22	A	1006	CLA	C3D-C2D	3.05	1.47	1.39
22	c	6027	CLA	C3D-C2D	3.05	1.47	1.39
22	B	1024	CLA	C3D-C2D	3.05	1.47	1.39
25	T	6046	BCR	C24-C25	-3.05	1.34	1.45
22	C	1035	CLA	C3D-C2D	3.04	1.47	1.39
22	B	1014	CLA	C3D-C2D	3.04	1.47	1.39
22	b	6015	CLA	C3D-C2D	3.04	1.47	1.39
22	d	6004	CLA	C3D-C2D	3.04	1.47	1.39
22	b	6020	CLA	C1D-C2D	3.04	1.51	1.45
22	h	6017	CLA	C3D-C2D	3.04	1.47	1.39
22	H	1017	CLA	C3D-C2D	3.04	1.47	1.39
22	C	1027	CLA	C3D-C2D	3.04	1.47	1.39
22	B	1013	CLA	C3D-C2D	3.04	1.47	1.39
22	b	6024	CLA	C3D-C2D	3.04	1.47	1.39
22	D	1004	CLA	C3D-C2D	3.03	1.47	1.39
22	c	6031	CLA	C3D-C2D	3.03	1.47	1.39
22	C	1028	CLA	C3D-C2D	3.03	1.47	1.39
22	b	6014	CLA	C3D-C2D	3.03	1.47	1.39
23	d	6039	PHO	C3B-C4B	-3.03	1.38	1.41
22	b	6013	CLA	C3D-C2D	3.03	1.47	1.39
22	c	6028	CLA	C3D-C2D	3.02	1.47	1.39
22	A	1007	CLA	C3D-C2D	3.02	1.47	1.39
22	c	6033	CLA	C3D-C2D	3.01	1.47	1.39
22	b	6021	CLA	C1D-C2D	3.01	1.51	1.45
22	b	6010	CLA	C1D-C2D	3.01	1.51	1.45
22	B	1021	CLA	C1D-C2D	3.01	1.51	1.45
22	k	6034	CLA	C1D-C2D	3.00	1.51	1.45
22	B	1009	CLA	C3D-C2D	3.00	1.47	1.39
22	a	6007	CLA	C3D-C2D	3.00	1.47	1.39
22	c	6030	CLA	C1D-C2D	2.99	1.51	1.45
22	B	1010	CLA	C1D-C2D	2.99	1.51	1.45
22	b	6009	CLA	C3D-C2D	2.99	1.47	1.39
22	C	1030	CLA	C1D-C2D	2.98	1.51	1.45
23	A	1038	PHO	C3B-C4B	-2.98	1.38	1.41
22	b	6023	CLA	C3D-C2D	2.98	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	1023	CLA	C3D-C2D	2.97	1.47	1.39
22	d	6008	CLA	C3D-C2D	2.97	1.47	1.39
22	b	6021	CLA	C3D-C2D	2.96	1.47	1.39
22	B	1021	CLA	C3D-C2D	2.96	1.47	1.39
22	b	6010	CLA	C3D-C2D	2.96	1.47	1.39
22	B	1010	CLA	C3D-C2D	2.95	1.47	1.39
22	B	1023	CLA	C1D-C2D	2.95	1.51	1.45
22	c	6030	CLA	C3D-C2D	2.94	1.47	1.39
22	D	1008	CLA	C3D-C2D	2.94	1.47	1.39
22	C	1030	CLA	C3D-C2D	2.94	1.47	1.39
22	B	1011	CLA	C3D-C2D	2.94	1.47	1.39
22	b	6011	CLA	C3D-C2D	2.93	1.47	1.39
22	b	6023	CLA	C1D-C2D	2.92	1.51	1.45
25	k	6052	BCR	C24-C25	-2.92	1.35	1.45
22	c	6029	CLA	C3D-C2D	2.91	1.46	1.39
22	C	1029	CLA	C3D-C2D	2.91	1.46	1.39
22	B	1009	CLA	C1D-C2D	2.91	1.51	1.45
25	C	1052	BCR	C24-C25	-2.90	1.35	1.45
22	C	1029	CLA	C1D-C2D	2.90	1.51	1.45
22	c	6029	CLA	C1D-C2D	2.89	1.51	1.45
22	D	1008	CLA	C1D-C2D	2.89	1.51	1.45
22	d	6008	CLA	C1D-C2D	2.89	1.51	1.45
22	B	1011	CLA	C1D-C2D	2.89	1.51	1.45
22	b	6009	CLA	C1D-C2D	2.89	1.51	1.45
22	b	6011	CLA	C1D-C2D	2.88	1.51	1.45
31	f	6040	HEM	CAB-C3B	2.84	1.55	1.47
31	F	1040	HEM	CAB-C3B	2.82	1.54	1.47
31	v	6041	HEM	CAB-C3B	2.82	1.54	1.47
31	V	1041	HEM	CAB-C3B	2.82	1.54	1.47
31	v	6041	HEM	CAC-C3C	2.81	1.54	1.47
31	V	1041	HEM	CAC-C3C	2.80	1.54	1.47
31	F	1040	HEM	CAC-C3C	2.79	1.54	1.47
25	B	1047	BCR	C24-C25	-2.78	1.35	1.45
25	T	6048	BCR	C24-C25	-2.78	1.35	1.45
25	b	6047	BCR	C24-C25	-2.77	1.35	1.45
25	B	1048	BCR	C24-C25	-2.77	1.35	1.45
25	A	1044	BCR	C24-C25	-2.76	1.35	1.45
31	f	6040	HEM	CAC-C3C	2.76	1.54	1.47
24	a	6043	PQ9	C10-C5	2.76	1.48	1.35
24	A	1043	PQ9	C10-C5	2.76	1.48	1.35
25	a	6044	BCR	C24-C25	-2.75	1.35	1.45
23	D	1039	PHO	O2A-CGA	-2.75	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	d	6042	PQ9	C10-C5	2.74	1.48	1.35
23	d	6039	PHO	O2A-CGA	-2.74	1.25	1.33
24	D	1042	PQ9	C10-C5	2.74	1.48	1.35
23	a	6038	PHO	O2A-CGA	-2.74	1.25	1.33
23	A	1038	PHO	O2A-CGA	-2.71	1.25	1.33
22	b	6012	CLA	C1B-C2B	2.71	1.49	1.43
22	B	1012	CLA	C1B-C2B	2.69	1.49	1.43
22	c	6031	CLA	C1B-C2B	2.68	1.49	1.43
22	c	6033	CLA	C1B-C2B	2.68	1.49	1.43
22	b	6022	CLA	C1B-C2B	2.67	1.49	1.43
22	c	6025	CLA	C1B-C2B	2.67	1.49	1.43
22	C	1033	CLA	C1B-C2B	2.67	1.49	1.43
22	B	1022	CLA	C1B-C2B	2.67	1.49	1.43
22	b	6019	CLA	C1B-C2B	2.67	1.49	1.43
22	C	1025	CLA	C1B-C2B	2.66	1.49	1.43
22	d	6004	CLA	C1B-C2B	2.66	1.49	1.43
22	H	1017	CLA	C1B-C2B	2.66	1.49	1.43
22	C	1031	CLA	C1B-C2B	2.66	1.49	1.43
22	D	1004	CLA	C1B-C2B	2.66	1.49	1.43
22	a	6006	CLA	C1B-C2B	2.66	1.49	1.43
22	d	6005	CLA	C1B-C2B	2.65	1.49	1.43
22	h	6017	CLA	C1B-C2B	2.65	1.49	1.43
22	A	1006	CLA	C1B-C2B	2.65	1.49	1.43
22	B	1019	CLA	C1B-C2B	2.65	1.49	1.43
22	c	6032	CLA	C1B-C2B	2.65	1.49	1.43
22	C	1028	CLA	C1B-C2B	2.65	1.49	1.43
22	C	1032	CLA	C1B-C2B	2.65	1.49	1.43
22	A	1007	CLA	C1B-C2B	2.65	1.49	1.43
22	C	1027	CLA	C1B-C2B	2.64	1.49	1.43
22	B	1018	CLA	C1B-C2B	2.64	1.49	1.43
22	b	6015	CLA	C1B-C2B	2.64	1.49	1.43
22	c	6030	CLA	C1B-C2B	2.64	1.49	1.43
22	B	1009	CLA	C1B-C2B	2.64	1.49	1.43
22	D	1005	CLA	C1B-C2B	2.64	1.49	1.43
22	B	1015	CLA	C1B-C2B	2.64	1.49	1.43
22	C	1037	CLA	C1B-C2B	2.64	1.49	1.43
22	B	1010	CLA	C1B-C2B	2.63	1.49	1.43
22	b	6021	CLA	C1B-C2B	2.63	1.49	1.43
22	c	6037	CLA	C1B-C2B	2.63	1.49	1.43
22	A	1003	CLA	C1B-C2B	2.63	1.49	1.43
22	c	6026	CLA	C1B-C2B	2.63	1.49	1.43
22	c	6035	CLA	C1B-C2B	2.63	1.49	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	b	6011	CLA	C1B-C2B	2.63	1.49	1.43
22	K	1034	CLA	C1B-C2B	2.63	1.49	1.43
22	B	1013	CLA	C1B-C2B	2.63	1.49	1.43
22	C	1030	CLA	C1B-C2B	2.63	1.49	1.43
22	b	6018	CLA	C1B-C2B	2.62	1.49	1.43
22	C	1035	CLA	C1B-C2B	2.62	1.49	1.43
22	c	6028	CLA	C1B-C2B	2.62	1.49	1.43
22	a	6007	CLA	C1B-C2B	2.62	1.49	1.43
22	c	6027	CLA	C1B-C2B	2.62	1.49	1.43
22	c	6036	CLA	C1B-C2B	2.62	1.49	1.43
22	B	1024	CLA	C1B-C2B	2.62	1.49	1.43
22	B	1011	CLA	C1B-C2B	2.62	1.49	1.43
22	B	1014	CLA	C1B-C2B	2.62	1.49	1.43
22	B	1016	CLA	C1B-C2B	2.62	1.49	1.43
22	C	1036	CLA	C1B-C2B	2.62	1.49	1.43
22	b	6010	CLA	C1B-C2B	2.62	1.49	1.43
22	a	6003	CLA	C1B-C2B	2.62	1.49	1.43
22	C	1026	CLA	C1B-C2B	2.61	1.49	1.43
22	b	6013	CLA	C1B-C2B	2.61	1.49	1.43
22	b	6020	CLA	C1B-C2B	2.61	1.49	1.43
22	B	1021	CLA	C1B-C2B	2.61	1.49	1.43
22	B	1020	CLA	C1B-C2B	2.61	1.49	1.43
22	b	6009	CLA	C1B-C2B	2.60	1.49	1.43
22	b	6024	CLA	C1B-C2B	2.60	1.49	1.43
22	k	6034	CLA	C1B-C2B	2.60	1.49	1.43
25	k	6052	BCR	C30-C25	-2.60	1.50	1.53
25	C	1052	BCR	C30-C25	-2.60	1.50	1.53
22	b	6016	CLA	C1B-C2B	2.60	1.49	1.43
22	d	6008	CLA	C1B-C2B	2.59	1.49	1.43
22	B	1023	CLA	C1B-C2B	2.59	1.49	1.43
22	b	6014	CLA	C1B-C2B	2.59	1.49	1.43
22	b	6023	CLA	C1B-C2B	2.59	1.49	1.43
22	D	1008	CLA	C1B-C2B	2.58	1.49	1.43
22	c	6029	CLA	C1B-C2B	2.56	1.49	1.43
22	C	1029	CLA	C1B-C2B	2.55	1.49	1.43
25	T	6046	BCR	C30-C25	-2.51	1.50	1.53
25	t	1046	BCR	C30-C25	-2.49	1.50	1.53
25	T	6046	BCR	C1-C6	-2.46	1.50	1.53
25	D	1050	BCR	C8-C7	-2.42	1.25	1.33
25	h	6049	BCR	C8-C7	-2.42	1.25	1.33
25	H	1049	BCR	C8-C7	-2.42	1.25	1.33
25	k	6052	BCR	C8-C7	-2.41	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	t	1046	BCR	C1-C6	-2.41	1.50	1.53
25	C	1052	BCR	C8-C7	-2.41	1.25	1.33
25	c	6054	BCR	C8-C7	-2.41	1.25	1.33
25	T	6048	BCR	C8-C7	-2.41	1.25	1.33
22	c	6031	CLA	C4C-C3C	2.41	1.49	1.45
25	d	6050	BCR	C8-C7	-2.40	1.25	1.33
25	K	1051	BCR	C8-C7	-2.40	1.26	1.33
25	B	1047	BCR	C8-C7	-2.40	1.26	1.33
25	Z	1053	BCR	C8-C7	-2.40	1.26	1.33
25	k	6051	BCR	C8-C7	-2.40	1.26	1.33
25	C	1054	BCR	C8-C7	-2.40	1.26	1.33
25	b	6047	BCR	C8-C7	-2.40	1.26	1.33
22	C	1031	CLA	C4C-C3C	2.39	1.49	1.45
25	B	1048	BCR	C8-C7	-2.39	1.26	1.33
22	b	6024	CLA	C4C-C3C	2.39	1.49	1.45
25	b	6045	BCR	C8-C7	-2.39	1.26	1.33
25	B	1045	BCR	C8-C7	-2.39	1.26	1.33
22	b	6022	CLA	C4C-C3C	2.38	1.49	1.45
25	z	6053	BCR	C8-C7	-2.38	1.26	1.33
22	C	1036	CLA	C4C-C3C	2.38	1.49	1.45
22	B	1024	CLA	C4C-C3C	2.38	1.49	1.45
22	C	1028	CLA	C4C-C3C	2.38	1.49	1.45
22	B	1022	CLA	C4C-C3C	2.36	1.49	1.45
22	c	6028	CLA	C4C-C3C	2.36	1.49	1.45
22	b	6018	CLA	C4C-C3C	2.36	1.49	1.45
22	c	6025	CLA	C4C-C3C	2.36	1.49	1.45
22	c	6033	CLA	C4C-C3C	2.35	1.49	1.45
22	c	6036	CLA	C4C-C3C	2.35	1.49	1.45
22	C	1033	CLA	C4C-C3C	2.35	1.49	1.45
22	d	6005	CLA	C4C-C3C	2.35	1.49	1.45
22	b	6013	CLA	C4C-C3C	2.35	1.49	1.45
22	C	1025	CLA	C4C-C3C	2.35	1.49	1.45
22	c	6032	CLA	C4C-C3C	2.35	1.49	1.45
22	C	1037	CLA	C4C-C3C	2.35	1.49	1.45
22	B	1018	CLA	C4C-C3C	2.34	1.49	1.45
22	B	1012	CLA	C4C-C3C	2.34	1.49	1.45
22	B	1013	CLA	C4C-C3C	2.34	1.49	1.45
22	C	1032	CLA	C4C-C3C	2.34	1.49	1.45
22	b	6012	CLA	C4C-C3C	2.34	1.49	1.45
22	b	6014	CLA	C4C-C3C	2.34	1.49	1.45
22	c	6037	CLA	C4C-C3C	2.33	1.49	1.45
22	A	1006	CLA	C4C-C3C	2.33	1.49	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	C	1026	CLA	C4C-C3C	2.33	1.49	1.45
25	A	1044	BCR	C30-C25	-2.33	1.50	1.53
22	A	1003	CLA	C4C-C3C	2.33	1.49	1.45
22	D	1004	CLA	C4C-C3C	2.33	1.49	1.45
22	b	6009	CLA	C4C-C3C	2.33	1.49	1.45
22	a	6003	CLA	C4C-C3C	2.32	1.49	1.45
22	B	1020	CLA	C4C-C3C	2.32	1.49	1.45
22	D	1005	CLA	C4C-C3C	2.32	1.49	1.45
22	a	6006	CLA	C4C-C3C	2.32	1.49	1.45
22	B	1014	CLA	C4C-C3C	2.32	1.49	1.45
22	B	1009	CLA	C4C-C3C	2.32	1.49	1.45
22	A	1007	CLA	C4C-C3C	2.32	1.49	1.45
22	C	1027	CLA	C4C-C3C	2.32	1.49	1.45
22	C	1035	CLA	C4C-C3C	2.31	1.49	1.45
22	K	1034	CLA	C4C-C3C	2.31	1.49	1.45
25	a	6044	BCR	C30-C25	-2.31	1.50	1.53
22	b	6020	CLA	C4C-C3C	2.31	1.49	1.45
22	c	6035	CLA	C4C-C3C	2.31	1.49	1.45
23	d	6039	PHO	C3A-C2A	-2.30	1.52	1.54
22	B	1015	CLA	C4C-C3C	2.30	1.48	1.45
22	d	6004	CLA	C4C-C3C	2.30	1.48	1.45
22	h	6017	CLA	C4C-C3C	2.30	1.48	1.45
22	B	1019	CLA	C4C-C3C	2.30	1.48	1.45
22	B	1016	CLA	C4C-C3C	2.30	1.48	1.45
22	a	6007	CLA	C4C-C3C	2.30	1.48	1.45
22	d	6008	CLA	C4C-C3C	2.30	1.48	1.45
22	b	6015	CLA	C4C-C3C	2.30	1.48	1.45
22	C	1029	CLA	C4C-C3C	2.30	1.48	1.45
22	b	6016	CLA	C4C-C3C	2.29	1.48	1.45
22	c	6026	CLA	C4C-C3C	2.29	1.48	1.45
22	c	6027	CLA	C4C-C3C	2.29	1.48	1.45
25	t	1046	BCR	C8-C7	-2.29	1.26	1.33
25	T	6046	BCR	C8-C7	-2.28	1.26	1.33
22	k	6034	CLA	C4C-C3C	2.28	1.48	1.45
22	H	1017	CLA	C4C-C3C	2.27	1.48	1.45
22	b	6019	CLA	C4C-C3C	2.27	1.48	1.45
25	a	6044	BCR	C8-C7	-2.27	1.26	1.33
25	A	1044	BCR	C8-C7	-2.27	1.26	1.33
22	D	1008	CLA	C4C-C3C	2.25	1.48	1.45
22	c	6029	CLA	C4C-C3C	2.24	1.48	1.45
22	b	6023	CLA	C4C-C3C	2.23	1.48	1.45
22	B	1010	CLA	C4C-C3C	2.23	1.48	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	b	6010	CLA	C4C-C3C	2.23	1.48	1.45
22	B	1023	CLA	C4C-C3C	2.22	1.48	1.45
25	b	6045	BCR	C30-C25	-2.22	1.50	1.53
23	D	1039	PHO	C3A-C2A	-2.22	1.52	1.54
23	A	1038	PHO	C4D-ND	-2.21	1.35	1.38
22	c	6036	CLA	C1C-C2C	2.21	1.49	1.44
22	B	1021	CLA	C4C-C3C	2.20	1.48	1.45
22	d	6005	CLA	C1C-C2C	2.20	1.49	1.44
22	c	6027	CLA	C1C-C2C	2.20	1.49	1.44
23	a	6038	PHO	C4D-ND	-2.20	1.35	1.38
22	a	6007	CLA	C1C-C2C	2.20	1.49	1.44
22	b	6020	CLA	C1C-C2C	2.19	1.49	1.44
22	B	1020	CLA	C1C-C2C	2.19	1.49	1.44
22	b	6021	CLA	C4C-C3C	2.19	1.48	1.45
22	c	6025	CLA	C1C-C2C	2.19	1.49	1.44
22	C	1036	CLA	C1C-C2C	2.19	1.49	1.44
25	k	6051	BCR	C1-C6	-2.19	1.51	1.53
22	C	1027	CLA	C1C-C2C	2.19	1.49	1.44
23	D	1039	PHO	C4D-ND	-2.19	1.35	1.38
22	B	1012	CLA	C1C-C2C	2.18	1.48	1.44
25	b	6047	BCR	C30-C25	-2.18	1.51	1.53
25	z	6053	BCR	C30-C25	-2.18	1.51	1.53
22	b	6012	CLA	C1C-C2C	2.18	1.48	1.44
23	A	1038	PHO	C3A-C2A	-2.18	1.52	1.54
22	c	6031	CLA	C1C-C2C	2.17	1.48	1.44
22	k	6034	CLA	C1C-C2C	2.17	1.48	1.44
25	B	1045	BCR	C30-C25	-2.17	1.51	1.53
22	C	1031	CLA	C1C-C2C	2.17	1.48	1.44
22	B	1014	CLA	C1C-C2C	2.17	1.48	1.44
25	z	6053	BCR	C1-C6	-2.17	1.51	1.53
23	d	6039	PHO	C4D-ND	-2.17	1.35	1.38
22	D	1005	CLA	C1C-C2C	2.17	1.48	1.44
22	b	6015	CLA	C1C-C2C	2.17	1.48	1.44
22	C	1033	CLA	C1C-C2C	2.17	1.48	1.44
22	C	1025	CLA	C1C-C2C	2.17	1.48	1.44
22	B	1022	CLA	C1C-C2C	2.16	1.48	1.44
25	H	1049	BCR	C1-C6	-2.16	1.51	1.53
22	b	6022	CLA	C1C-C2C	2.16	1.48	1.44
23	a	6038	PHO	C3A-C2A	-2.16	1.52	1.54
22	A	1007	CLA	C1C-C2C	2.16	1.48	1.44
22	b	6013	CLA	C1C-C2C	2.16	1.48	1.44
22	c	6026	CLA	C1C-C2C	2.16	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	Z	1053	BCR	C1-C6	-2.16	1.51	1.53
25	B	1048	BCR	C1-C6	-2.16	1.51	1.53
22	b	6024	CLA	C1C-C2C	2.16	1.48	1.44
22	C	1028	CLA	C1C-C2C	2.16	1.48	1.44
22	K	1034	CLA	C1C-C2C	2.16	1.48	1.44
22	c	6033	CLA	C1C-C2C	2.16	1.48	1.44
25	B	1047	BCR	C30-C25	-2.15	1.51	1.53
22	A	1006	CLA	C1C-C2C	2.15	1.48	1.44
22	B	1016	CLA	C1C-C2C	2.15	1.48	1.44
22	b	6016	CLA	C1C-C2C	2.15	1.48	1.44
22	b	6019	CLA	C1C-C2C	2.15	1.48	1.44
22	B	1024	CLA	C1C-C2C	2.15	1.48	1.44
22	b	6014	CLA	C1C-C2C	2.15	1.48	1.44
22	B	1013	CLA	C1C-C2C	2.15	1.48	1.44
22	B	1011	CLA	MG-NA	-2.15	2.01	2.06
22	B	1015	CLA	C1C-C2C	2.15	1.48	1.44
22	b	6011	CLA	C4C-C3C	2.15	1.48	1.45
22	b	6011	CLA	MG-NA	-2.15	2.01	2.06
22	C	1026	CLA	C1C-C2C	2.14	1.48	1.44
22	c	6028	CLA	C1C-C2C	2.14	1.48	1.44
22	b	6018	CLA	C1C-C2C	2.14	1.48	1.44
25	B	1045	BCR	C1-C6	-2.14	1.51	1.53
22	d	6008	CLA	MG-NA	-2.14	2.01	2.06
22	C	1032	CLA	C1C-C2C	2.14	1.48	1.44
22	c	6037	CLA	C1C-C2C	2.14	1.48	1.44
22	h	6017	CLA	C1C-C2C	2.14	1.48	1.44
25	T	6048	BCR	C1-C6	-2.14	1.51	1.53
22	C	1037	CLA	C1C-C2C	2.14	1.48	1.44
22	B	1018	CLA	C1C-C2C	2.13	1.48	1.44
25	K	1051	BCR	C1-C6	-2.13	1.51	1.53
22	B	1019	CLA	C1C-C2C	2.13	1.48	1.44
22	a	6006	CLA	C1C-C2C	2.13	1.48	1.44
22	a	6003	CLA	C1C-C2C	2.13	1.48	1.44
22	B	1021	CLA	MG-NA	-2.13	2.01	2.06
22	D	1004	CLA	C1C-C2C	2.13	1.48	1.44
25	Z	1053	BCR	C30-C25	-2.13	1.51	1.53
22	c	6032	CLA	C1C-C2C	2.12	1.48	1.44
22	H	1017	CLA	C1C-C2C	2.12	1.48	1.44
25	h	6049	BCR	C1-C6	-2.12	1.51	1.53
25	k	6052	BCR	C1-C6	-2.12	1.51	1.53
25	C	1052	BCR	C1-C6	-2.12	1.51	1.53
25	B	1047	BCR	C1-C6	-2.12	1.51	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	A	1003	CLA	C1C-C2C	2.12	1.48	1.44
25	b	6047	BCR	C1-C6	-2.11	1.51	1.53
25	K	1051	BCR	C30-C25	-2.11	1.51	1.53
22	B	1011	CLA	C4C-C3C	2.11	1.48	1.45
25	k	6051	BCR	C30-C25	-2.11	1.51	1.53
22	d	6004	CLA	C1C-C2C	2.11	1.48	1.44
25	B	1048	BCR	C30-C25	-2.11	1.51	1.53
22	B	1010	CLA	MG-NA	-2.11	2.01	2.06
22	b	6021	CLA	MG-NA	-2.11	2.01	2.06
25	C	1054	BCR	C1-C6	-2.11	1.51	1.53
25	T	6048	BCR	C30-C25	-2.11	1.51	1.53
24	a	6043	PQ9	C3-C2	2.11	1.39	1.34
22	B	1023	CLA	MG-NA	-2.11	2.01	2.06
25	b	6045	BCR	C1-C6	-2.10	1.51	1.53
22	D	1008	CLA	MG-NA	-2.10	2.01	2.06
22	b	6010	CLA	MG-NA	-2.10	2.01	2.06
22	C	1035	CLA	C1C-C2C	2.10	1.48	1.44
22	C	1030	CLA	C1C-C2C	2.10	1.48	1.44
24	d	6042	PQ9	C3-C2	2.10	1.39	1.34
25	D	1050	BCR	C1-C6	-2.10	1.51	1.53
22	c	6035	CLA	C1C-C2C	2.10	1.48	1.44
22	b	6009	CLA	MG-NA	-2.09	2.01	2.06
24	D	1042	PQ9	C3-C2	2.09	1.39	1.34
22	b	6021	CLA	C1C-C2C	2.09	1.48	1.44
25	c	6054	BCR	C1-C6	-2.09	1.51	1.53
22	b	6023	CLA	MG-NA	-2.09	2.01	2.06
22	C	1030	CLA	MG-NA	-2.08	2.01	2.06
22	C	1030	CLA	C4B-NB	-2.08	1.35	1.37
22	C	1029	CLA	C1C-C2C	2.07	1.48	1.44
25	D	1050	BCR	C30-C25	-2.07	1.51	1.53
25	d	6050	BCR	C30-C25	-2.07	1.51	1.53
24	A	1043	PQ9	C3-C2	2.07	1.39	1.34
22	c	6030	CLA	MG-NA	-2.07	2.01	2.06
22	c	6030	CLA	C4C-C3C	2.07	1.48	1.45
22	B	1021	CLA	C1C-C2C	2.07	1.48	1.44
22	C	1030	CLA	C4C-C3C	2.07	1.48	1.45
22	c	6030	CLA	C1C-C2C	2.06	1.48	1.44
22	d	6008	CLA	C1C-C2C	2.06	1.48	1.44
22	a	6003	CLA	MG-NA	-2.06	2.01	2.06
22	b	6023	CLA	C1C-C2C	2.06	1.48	1.44
22	c	6029	CLA	MG-NA	-2.06	2.01	2.06
22	c	6030	CLA	C4B-NB	-2.06	1.35	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	d	6050	BCR	C1-C6	-2.06	1.51	1.53
22	c	6035	CLA	MG-NA	-2.06	2.01	2.06
22	B	1009	CLA	MG-NA	-2.06	2.01	2.06
22	d	6008	CLA	C1B-NB	-2.05	1.35	1.37
22	B	1023	CLA	C1C-C2C	2.05	1.48	1.44
22	b	6024	CLA	MG-NA	-2.05	2.01	2.06
22	D	1008	CLA	C1C-C2C	2.05	1.48	1.44
22	b	6011	CLA	C1B-NB	-2.04	1.35	1.37
22	C	1029	CLA	MG-NA	-2.04	2.01	2.06
22	A	1007	CLA	MG-NA	-2.04	2.01	2.06
22	c	6029	CLA	C1C-C2C	2.04	1.48	1.44
22	b	6018	CLA	MG-NA	-2.04	2.01	2.06
22	K	1034	CLA	MG-NA	-2.04	2.01	2.06
22	D	1008	CLA	C4B-NB	-2.04	1.35	1.37
22	d	6008	CLA	C4B-NB	-2.04	1.35	1.37
22	b	6011	CLA	C4B-NB	-2.03	1.35	1.37
22	C	1035	CLA	MG-NA	-2.03	2.01	2.06
22	A	1003	CLA	MG-NA	-2.03	2.01	2.06
22	a	6007	CLA	MG-NA	-2.03	2.01	2.06
22	k	6034	CLA	MG-NA	-2.03	2.01	2.06
22	B	1016	CLA	MG-NA	-2.03	2.01	2.06
22	d	6004	CLA	MG-NA	-2.03	2.01	2.06
22	B	1010	CLA	C1C-C2C	2.03	1.48	1.44
31	F	1040	HEM	CMD-C2D	2.03	1.54	1.50
22	b	6013	CLA	MG-NA	-2.03	2.01	2.06
22	c	6027	CLA	MG-NA	-2.02	2.01	2.06
22	C	1027	CLA	MG-NA	-2.02	2.01	2.06
22	B	1018	CLA	MG-NA	-2.02	2.01	2.06
22	c	6028	CLA	MG-NA	-2.02	2.01	2.06
22	c	6032	CLA	MG-NA	-2.02	2.01	2.06
22	A	1006	CLA	MG-NA	-2.02	2.01	2.06
22	B	1013	CLA	MG-NA	-2.02	2.01	2.06
22	B	1024	CLA	MG-NA	-2.02	2.01	2.06
22	C	1028	CLA	MG-NA	-2.02	2.01	2.06
22	a	6006	CLA	MG-NA	-2.02	2.01	2.06
22	C	1032	CLA	MG-NA	-2.02	2.01	2.06
22	b	6010	CLA	C1C-C2C	2.02	1.48	1.44
22	c	6025	CLA	MG-NA	-2.02	2.01	2.06
31	f	6040	HEM	CMA-C3A	2.02	1.54	1.50
22	c	6031	CLA	MG-NA	-2.01	2.01	2.06
31	f	6040	HEM	CMD-C2D	2.01	1.54	1.50
22	H	1017	CLA	MG-NA	-2.01	2.01	2.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	B	1022	CLA	MG-NA	-2.01	2.01	2.06
22	C	1031	CLA	MG-NA	-2.01	2.01	2.06
22	C	1025	CLA	MG-NA	-2.01	2.01	2.06
22	C	1033	CLA	MG-NA	-2.01	2.01	2.06
22	b	6019	CLA	MG-NA	-2.01	2.01	2.06
22	B	1019	CLA	MG-NA	-2.01	2.01	2.06
25	h	6049	BCR	C30-C25	-2.00	1.51	1.53
22	B	1011	CLA	C4B-NB	-2.00	1.35	1.37
22	b	6022	CLA	MG-NA	-2.00	2.01	2.06
22	c	6033	CLA	MG-NA	-2.00	2.01	2.06
22	C	1029	CLA	C4B-NB	-2.00	1.35	1.37
22	D	1004	CLA	MG-NA	-2.00	2.01	2.06
31	V	1041	HEM	CMA-C3A	2.00	1.54	1.50
31	v	6041	HEM	CMB-C2B	2.00	1.54	1.50

All (2709) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	b	6045	BCR	C16-C17-C18	29.28	168.34	127.28
25	B	1045	BCR	C16-C17-C18	29.26	168.32	127.28
25	T	6048	BCR	C15-C16-C17	26.44	177.62	123.52
25	B	1048	BCR	C15-C16-C17	26.42	177.57	123.52
25	Z	1053	BCR	C15-C16-C17	26.11	176.94	123.52
25	z	6053	BCR	C15-C16-C17	26.10	176.92	123.52
25	b	6047	BCR	C20-C21-C22	25.89	163.58	127.28
25	B	1047	BCR	C20-C21-C22	25.88	163.57	127.28
25	k	6052	BCR	C15-C16-C17	25.82	176.36	123.52
25	C	1052	BCR	C15-C16-C17	25.80	176.31	123.52
25	a	6044	BCR	C7-C8-C9	25.30	163.66	126.23
25	A	1044	BCR	C7-C8-C9	25.27	163.62	126.23
25	a	6044	BCR	C15-C16-C17	24.05	172.74	123.52
25	A	1044	BCR	C15-C16-C17	24.04	172.71	123.52
25	H	1049	BCR	C15-C16-C17	22.88	170.34	123.52
25	h	6049	BCR	C15-C16-C17	22.87	170.32	123.52
25	k	6052	BCR	C16-C15-C14	22.17	168.88	123.52
25	C	1052	BCR	C16-C15-C14	22.14	168.82	123.52
25	T	6046	BCR	C20-C21-C22	21.28	157.12	127.28
25	t	1046	BCR	C20-C21-C22	21.22	157.04	127.28
25	t	1046	BCR	C15-C16-C17	21.00	166.48	123.52
25	T	6046	BCR	C15-C16-C17	20.98	166.45	123.52
25	Z	1053	BCR	C16-C15-C14	20.32	165.11	123.52
25	z	6053	BCR	C16-C15-C14	20.31	165.08	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	A	1044	BCR	C20-C21-C22	19.61	154.78	127.28
25	a	6044	BCR	C20-C21-C22	19.61	154.78	127.28
25	C	1052	BCR	C20-C21-C22	19.26	154.29	127.28
25	k	6052	BCR	C20-C21-C22	19.26	154.28	127.28
25	T	6046	BCR	C16-C15-C14	18.41	161.19	123.52
25	t	1046	BCR	C16-C15-C14	18.40	161.16	123.52
25	T	6046	BCR	C21-C20-C19	18.16	175.81	123.20
25	t	1046	BCR	C21-C20-C19	18.15	175.79	123.20
25	C	1052	BCR	C10-C11-C12	17.78	174.71	123.20
25	k	6052	BCR	C10-C11-C12	17.77	174.69	123.20
25	T	6048	BCR	C21-C20-C19	17.33	173.41	123.20
25	B	1048	BCR	C21-C20-C19	17.33	173.41	123.20
25	a	6044	BCR	C21-C20-C19	17.21	173.08	123.20
25	A	1044	BCR	C21-C20-C19	17.20	173.04	123.20
25	C	1054	BCR	C15-C16-C17	16.97	158.24	123.52
25	c	6054	BCR	C15-C16-C17	16.95	158.21	123.52
25	K	1051	BCR	C16-C15-C14	16.81	157.91	123.52
25	k	6051	BCR	C16-C15-C14	16.80	157.90	123.52
25	C	1052	BCR	C21-C20-C19	16.74	171.71	123.20
25	k	6052	BCR	C21-C20-C19	16.73	171.69	123.20
25	c	6054	BCR	C10-C11-C12	16.68	171.52	123.20
25	C	1054	BCR	C10-C11-C12	16.67	171.50	123.20
25	a	6044	BCR	C16-C17-C18	16.25	150.07	127.28
25	A	1044	BCR	C16-C17-C18	16.25	150.07	127.28
25	B	1045	BCR	C10-C11-C12	15.48	168.05	123.20
25	B	1048	BCR	C16-C15-C14	15.46	155.16	123.52
25	b	6045	BCR	C10-C11-C12	15.46	168.01	123.20
25	T	6048	BCR	C16-C15-C14	15.46	155.15	123.52
25	B	1045	BCR	C15-C16-C17	15.46	155.15	123.52
25	b	6045	BCR	C15-C16-C17	15.43	155.08	123.52
25	d	6050	BCR	C16-C15-C14	15.40	155.04	123.52
25	D	1050	BCR	C16-C15-C14	15.37	154.98	123.52
25	b	6047	BCR	C15-C16-C17	15.10	154.41	123.52
25	B	1047	BCR	C15-C16-C17	15.08	154.38	123.52
25	D	1050	BCR	C15-C16-C17	14.99	154.18	123.52
25	k	6051	BCR	C15-C16-C17	14.99	154.18	123.52
25	d	6050	BCR	C15-C16-C17	14.99	154.18	123.52
25	K	1051	BCR	C15-C16-C17	14.97	154.14	123.52
25	d	6050	BCR	C20-C21-C22	14.93	148.22	127.28
25	D	1050	BCR	C20-C21-C22	14.90	148.17	127.28
25	H	1049	BCR	C16-C15-C14	14.64	153.48	123.52
25	h	6049	BCR	C16-C15-C14	14.63	153.46	123.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	c	6054	BCR	C16-C15-C14	14.46	153.11	123.52
25	C	1054	BCR	C16-C15-C14	14.45	153.09	123.52
25	a	6044	BCR	C16-C15-C14	14.31	152.81	123.52
25	A	1044	BCR	C16-C15-C14	14.28	152.74	123.52
25	c	6054	BCR	C11-C12-C13	13.95	164.62	126.36
25	C	1054	BCR	C11-C12-C13	13.94	164.60	126.36
25	T	6048	BCR	C20-C21-C22	13.20	145.79	127.28
25	B	1048	BCR	C20-C21-C22	13.20	145.79	127.28
25	k	6052	BCR	C16-C17-C18	12.68	145.06	127.28
25	C	1052	BCR	C16-C17-C18	12.66	145.04	127.28
25	b	6045	BCR	C7-C8-C9	12.66	144.97	126.23
25	B	1045	BCR	C7-C8-C9	12.63	144.93	126.23
25	A	1044	BCR	C11-C12-C13	12.58	160.85	126.36
25	a	6044	BCR	C11-C12-C13	12.57	160.83	126.36
25	D	1050	BCR	C11-C12-C13	12.52	160.70	126.36
25	d	6050	BCR	C11-C12-C13	12.52	160.70	126.36
25	z	6053	BCR	C10-C11-C12	12.52	159.48	123.20
25	Z	1053	BCR	C10-C11-C12	12.51	159.45	123.20
25	B	1048	BCR	C16-C17-C18	12.48	144.78	127.28
25	T	6048	BCR	C16-C17-C18	12.44	144.72	127.28
25	b	6045	BCR	C16-C15-C14	12.41	148.92	123.52
25	B	1045	BCR	C16-C15-C14	12.41	148.92	123.52
25	Z	1053	BCR	C7-C8-C9	12.05	144.06	126.23
25	z	6053	BCR	C7-C8-C9	12.02	144.02	126.23
25	t	1046	BCR	C16-C17-C18	11.80	143.82	127.28
25	T	6046	BCR	C16-C17-C18	11.77	143.78	127.28
25	d	6050	BCR	C10-C11-C12	11.70	157.10	123.20
25	D	1050	BCR	C10-C11-C12	11.69	157.08	123.20
25	a	6044	BCR	C10-C11-C12	11.51	156.56	123.20
25	A	1044	BCR	C10-C11-C12	11.51	156.55	123.20
25	h	6049	BCR	C10-C11-C12	11.42	156.29	123.20
25	H	1049	BCR	C10-C11-C12	11.40	156.24	123.20
25	k	6052	BCR	C11-C12-C13	10.92	156.30	126.36
25	C	1052	BCR	C11-C12-C13	10.91	156.29	126.36
25	k	6051	BCR	C11-C12-C13	10.87	156.17	126.36
25	K	1051	BCR	C11-C12-C13	10.86	156.14	126.36
25	B	1048	BCR	C20-C19-C18	10.81	156.01	126.36
25	T	6048	BCR	C20-C19-C18	10.80	155.97	126.36
25	d	6050	BCR	C21-C20-C19	10.80	154.49	123.20
25	D	1050	BCR	C21-C20-C19	10.79	154.47	123.20
25	b	6047	BCR	C21-C20-C19	10.73	154.30	123.20
25	c	6054	BCR	C21-C20-C19	10.73	154.29	123.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	B	1047	BCR	C21-C20-C19	10.72	154.27	123.20
25	C	1054	BCR	C21-C20-C19	10.72	154.27	123.20
25	h	6049	BCR	C21-C20-C19	10.69	154.17	123.20
25	b	6045	BCR	C21-C20-C19	10.69	154.16	123.20
25	H	1049	BCR	C21-C20-C19	10.68	154.13	123.20
25	B	1045	BCR	C21-C20-C19	10.67	154.11	123.20
25	z	6053	BCR	C21-C20-C19	10.67	154.11	123.20
25	K	1051	BCR	C21-C20-C19	10.66	154.09	123.20
25	k	6051	BCR	C21-C20-C19	10.65	154.07	123.20
25	Z	1053	BCR	C21-C20-C19	10.64	154.04	123.20
25	k	6051	BCR	C20-C21-C22	10.59	142.12	127.28
25	K	1051	BCR	C20-C21-C22	10.55	142.08	127.28
25	C	1054	BCR	C16-C17-C18	10.46	141.95	127.28
25	c	6054	BCR	C16-C17-C18	10.45	141.93	127.28
25	H	1049	BCR	C16-C17-C18	10.45	141.93	127.28
25	h	6049	BCR	C16-C17-C18	10.45	141.93	127.28
25	C	1054	BCR	C20-C21-C22	10.40	141.87	127.28
25	c	6054	BCR	C20-C21-C22	10.39	141.86	127.28
25	H	1049	BCR	C20-C21-C22	10.32	141.75	127.28
25	K	1051	BCR	C16-C17-C18	10.31	141.74	127.28
25	D	1050	BCR	C16-C17-C18	10.31	141.74	127.28
25	k	6051	BCR	C16-C17-C18	10.30	141.72	127.28
25	d	6050	BCR	C16-C17-C18	10.29	141.71	127.28
25	B	1047	BCR	C16-C17-C18	10.28	141.69	127.28
25	z	6053	BCR	C16-C17-C18	10.28	141.69	127.28
25	b	6047	BCR	C16-C17-C18	10.27	141.68	127.28
25	Z	1053	BCR	C16-C17-C18	10.26	141.67	127.28
25	h	6049	BCR	C20-C21-C22	10.25	141.66	127.28
25	B	1045	BCR	C20-C21-C22	10.24	141.63	127.28
25	Z	1053	BCR	C20-C21-C22	10.23	141.63	127.28
25	z	6053	BCR	C20-C21-C22	10.21	141.60	127.28
25	b	6045	BCR	C20-C21-C22	10.21	141.59	127.28
25	k	6051	BCR	C7-C8-C9	10.07	141.13	126.23
25	K	1051	BCR	C7-C8-C9	10.03	141.07	126.23
25	T	6048	BCR	C7-C8-C9	9.95	140.96	126.23
25	B	1048	BCR	C7-C8-C9	9.92	140.91	126.23
25	B	1048	BCR	C11-C12-C13	9.88	153.45	126.36
25	T	6048	BCR	C11-C12-C13	9.87	153.43	126.36
25	K	1051	BCR	C10-C11-C12	9.77	151.51	123.20
25	k	6051	BCR	C10-C11-C12	9.76	151.48	123.20
25	B	1047	BCR	C7-C8-C9	9.24	139.90	126.23
25	b	6047	BCR	C7-C8-C9	9.21	139.86	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	h	6049	BCR	C11-C12-C13	9.17	151.52	126.36
25	H	1049	BCR	C11-C12-C13	9.15	151.46	126.36
25	T	6046	BCR	C10-C11-C12	9.04	149.38	123.20
23	a	6038	PHO	CAC-C3C-C2C	-9.04	110.96	127.56
25	t	1046	BCR	C10-C11-C12	9.02	149.35	123.20
23	A	1038	PHO	CAC-C3C-C2C	-9.02	110.98	127.56
25	b	6047	BCR	C16-C15-C14	9.00	141.93	123.52
23	d	6039	PHO	CAC-C3C-C2C	-8.99	111.04	127.56
23	D	1039	PHO	CAC-C3C-C2C	-8.99	111.04	127.56
25	B	1047	BCR	C16-C15-C14	8.99	141.91	123.52
25	c	6054	BCR	C7-C8-C9	8.95	139.47	126.23
25	C	1054	BCR	C7-C8-C9	8.92	139.44	126.23
25	Z	1053	BCR	C11-C12-C13	8.89	150.74	126.36
25	z	6053	BCR	C11-C12-C13	8.89	150.74	126.36
25	B	1048	BCR	C10-C11-C12	8.80	148.70	123.20
25	T	6048	BCR	C10-C11-C12	8.79	148.68	123.20
23	D	1039	PHO	CMC-C2C-C1C	-8.48	109.47	124.73
23	d	6039	PHO	CMC-C2C-C1C	-8.48	109.48	124.73
23	a	6038	PHO	CMC-C2C-C1C	-8.46	109.52	124.73
23	a	6038	PHO	C2D-C1D-ND	8.46	115.54	109.43
23	A	1038	PHO	CMC-C2C-C1C	-8.45	109.52	124.73
23	a	6038	PHO	O2D-CGD-CBD	8.44	120.22	110.95
23	A	1038	PHO	O2D-CGD-CBD	8.44	120.22	110.95
23	d	6039	PHO	C2D-C1D-ND	8.43	115.53	109.43
23	D	1039	PHO	C2D-C1D-ND	8.43	115.52	109.43
23	A	1038	PHO	C2D-C1D-ND	8.41	115.51	109.43
23	D	1039	PHO	O2D-CGD-CBD	8.38	120.15	110.95
23	a	6038	PHO	CMD-C2D-C3D	-8.36	107.97	124.68
23	A	1038	PHO	CMD-C2D-C3D	-8.36	107.97	124.68
23	d	6039	PHO	CMD-C2D-C3D	-8.36	107.99	124.68
23	D	1039	PHO	CMD-C2D-C3D	-8.35	107.99	124.68
23	d	6039	PHO	O2D-CGD-CBD	8.33	120.10	110.95
22	d	6008	CLA	CMD-C2D-C1D	8.28	139.31	124.73
22	B	1021	CLA	CMD-C2D-C1D	8.26	139.27	124.73
22	b	6018	CLA	CMD-C2D-C1D	8.25	139.26	124.73
22	D	1008	CLA	CMD-C2D-C1D	8.25	139.26	124.73
22	C	1029	CLA	CMD-C2D-C1D	8.25	139.25	124.73
22	c	6029	CLA	CMD-C2D-C1D	8.25	139.25	124.73
22	a	6003	CLA	CMD-C2D-C1D	8.24	139.25	124.73
22	C	1030	CLA	CMD-C2D-C1D	8.24	139.24	124.73
22	b	6023	CLA	CMD-C2D-C1D	8.24	139.23	124.73
22	c	6030	CLA	CMD-C2D-C1D	8.24	139.23	124.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	6021	CLA	CMD-C2D-C1D	8.23	139.22	124.73
22	c	6026	CLA	CMD-C2D-C1D	8.22	139.21	124.73
22	A	1003	CLA	CMD-C2D-C1D	8.22	139.21	124.73
22	c	6035	CLA	CMD-C2D-C1D	8.22	139.21	124.73
22	B	1018	CLA	CMD-C2D-C1D	8.22	139.20	124.73
22	C	1026	CLA	CMD-C2D-C1D	8.22	139.20	124.73
22	K	1034	CLA	CMD-C2D-C1D	8.22	139.20	124.73
22	B	1023	CLA	CMD-C2D-C1D	8.22	139.20	124.73
22	k	6034	CLA	CMD-C2D-C1D	8.22	139.20	124.73
22	b	6020	CLA	CMD-C2D-C1D	8.21	139.19	124.73
22	c	6027	CLA	CMD-C2D-C1D	8.21	139.19	124.73
22	B	1020	CLA	CMD-C2D-C1D	8.21	139.19	124.73
22	D	1005	CLA	CMD-C2D-C1D	8.21	139.19	124.73
22	C	1025	CLA	CMD-C2D-C1D	8.21	139.19	124.73
22	B	1015	CLA	CMD-C2D-C1D	8.21	139.18	124.73
22	C	1033	CLA	CMD-C2D-C1D	8.21	139.18	124.73
22	c	6025	CLA	CMD-C2D-C1D	8.21	139.18	124.73
22	C	1036	CLA	CMD-C2D-C1D	8.20	139.18	124.73
22	d	6005	CLA	CMD-C2D-C1D	8.20	139.18	124.73
22	B	1024	CLA	CMD-C2D-C1D	8.20	139.18	124.73
22	b	6012	CLA	CMD-C2D-C1D	8.20	139.17	124.73
22	b	6024	CLA	CMD-C2D-C1D	8.20	139.17	124.73
22	C	1031	CLA	CMD-C2D-C1D	8.20	139.17	124.73
22	b	6010	CLA	CMD-C2D-C1D	8.20	139.17	124.73
22	b	6015	CLA	CMD-C2D-C1D	8.20	139.17	124.73
22	c	6036	CLA	CMD-C2D-C1D	8.20	139.17	124.73
22	b	6022	CLA	CMD-C2D-C1D	8.20	139.17	124.73
22	A	1007	CLA	CMD-C2D-C1D	8.20	139.16	124.73
22	B	1016	CLA	CMD-C2D-C1D	8.20	139.16	124.73
22	B	1014	CLA	CMD-C2D-C1D	8.20	139.16	124.73
22	C	1027	CLA	CMD-C2D-C1D	8.20	139.16	124.73
22	B	1019	CLA	CMD-C2D-C1D	8.19	139.16	124.73
22	c	6031	CLA	CMD-C2D-C1D	8.19	139.16	124.73
22	C	1032	CLA	CMD-C2D-C1D	8.19	139.15	124.73
22	b	6016	CLA	CMD-C2D-C1D	8.19	139.15	124.73
22	B	1022	CLA	CMD-C2D-C1D	8.19	139.15	124.73
22	C	1035	CLA	CMD-C2D-C1D	8.19	139.15	124.73
22	b	6019	CLA	CMD-C2D-C1D	8.19	139.15	124.73
22	C	1037	CLA	CMD-C2D-C1D	8.19	139.15	124.73
22	B	1012	CLA	CMD-C2D-C1D	8.19	139.15	124.73
22	d	6004	CLA	CMD-C2D-C1D	8.18	139.14	124.73
22	h	6017	CLA	CMD-C2D-C1D	8.18	139.14	124.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	a	6006	CLA	CMD-C2D-C1D	8.18	139.14	124.73
22	c	6033	CLA	CMD-C2D-C1D	8.18	139.14	124.73
22	D	1004	CLA	CMD-C2D-C1D	8.18	139.13	124.73
22	B	1010	CLA	CMD-C2D-C1D	8.18	139.13	124.73
22	a	6007	CLA	CMD-C2D-C1D	8.18	139.13	124.73
22	c	6037	CLA	CMD-C2D-C1D	8.18	139.13	124.73
22	C	1028	CLA	CMD-C2D-C1D	8.17	139.12	124.73
22	H	1017	CLA	CMD-C2D-C1D	8.17	139.12	124.73
22	B	1013	CLA	CMD-C2D-C1D	8.17	139.12	124.73
25	c	6054	BCR	C20-C19-C18	8.17	148.77	126.36
22	b	6013	CLA	CMD-C2D-C1D	8.17	139.12	124.73
22	c	6032	CLA	CMD-C2D-C1D	8.17	139.12	124.73
22	A	1006	CLA	CMD-C2D-C1D	8.17	139.12	124.73
22	b	6014	CLA	CMD-C2D-C1D	8.17	139.12	124.73
22	c	6028	CLA	CMD-C2D-C1D	8.17	139.11	124.73
25	C	1054	BCR	C20-C19-C18	8.16	148.74	126.36
22	B	1009	CLA	CMD-C2D-C1D	8.15	139.08	124.73
22	b	6009	CLA	CMD-C2D-C1D	8.14	139.07	124.73
22	B	1011	CLA	CMD-C2D-C1D	8.11	139.01	124.73
22	b	6011	CLA	CMD-C2D-C1D	8.09	138.98	124.73
25	d	6050	BCR	C7-C8-C9	7.80	137.77	126.23
25	D	1050	BCR	C7-C8-C9	7.78	137.75	126.23
25	H	1049	BCR	C7-C8-C9	7.65	137.56	126.23
25	h	6049	BCR	C7-C8-C9	7.63	137.53	126.23
23	A	1038	PHO	C2B-C1B-NB	7.44	114.81	109.43
23	D	1039	PHO	C2B-C1B-NB	7.39	114.77	109.43
23	d	6039	PHO	C2B-C1B-NB	7.38	114.77	109.43
23	a	6038	PHO	C2B-C1B-NB	7.38	114.77	109.43
25	B	1047	BCR	C10-C11-C12	7.35	144.48	123.20
25	b	6047	BCR	C10-C11-C12	7.34	144.47	123.20
23	a	6038	PHO	C3B-C4B-NB	6.47	111.68	107.46
23	d	6039	PHO	C3B-C4B-NB	6.47	111.68	107.46
22	c	6030	CLA	C2B-C1B-NB	6.44	117.00	110.33
22	C	1030	CLA	C2B-C1B-NB	6.43	116.99	110.33
23	D	1039	PHO	C3B-C4B-NB	6.42	111.65	107.46
23	A	1038	PHO	C3B-C4B-NB	6.42	111.65	107.46
22	c	6035	CLA	C2B-C1B-NB	6.34	116.90	110.33
22	b	6014	CLA	C2B-C1B-NB	6.32	116.88	110.33
22	b	6019	CLA	C2B-C1B-NB	6.32	116.88	110.33
25	B	1047	BCR	C20-C19-C18	6.32	143.68	126.36
22	B	1014	CLA	C2B-C1B-NB	6.32	116.88	110.33
22	B	1019	CLA	C2B-C1B-NB	6.32	116.88	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	d	6004	CLA	C2B-C1B-NB	6.31	116.87	110.33
25	b	6047	BCR	C20-C19-C18	6.31	143.67	126.36
22	C	1026	CLA	C2B-C1B-NB	6.30	116.86	110.33
22	B	1020	CLA	C2B-C1B-NB	6.30	116.86	110.33
22	c	6037	CLA	C2B-C1B-NB	6.30	116.86	110.33
22	c	6026	CLA	C2B-C1B-NB	6.30	116.86	110.33
22	C	1025	CLA	C2B-C1B-NB	6.30	116.86	110.33
22	C	1035	CLA	C2B-C1B-NB	6.30	116.86	110.33
22	a	6006	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	k	6034	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	B	1016	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	d	6005	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	h	6017	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	K	1034	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	c	6027	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	B	1018	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	H	1017	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	D	1004	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	C	1036	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	C	1037	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	C	1027	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	B	1024	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	b	6009	CLA	C2B-C1B-NB	6.29	116.85	110.33
22	A	1003	CLA	C2B-C1B-NB	6.29	116.84	110.33
22	b	6010	CLA	C2B-C1B-NB	6.29	116.84	110.33
22	a	6003	CLA	C2B-C1B-NB	6.28	116.84	110.33
22	A	1006	CLA	C2B-C1B-NB	6.28	116.84	110.33
22	A	1007	CLA	C2B-C1B-NB	6.28	116.84	110.33
22	B	1013	CLA	C2B-C1B-NB	6.28	116.84	110.33
22	b	6024	CLA	C2B-C1B-NB	6.28	116.84	110.33
22	C	1032	CLA	C2B-C1B-NB	6.27	116.83	110.33
22	C	1031	CLA	C2B-C1B-NB	6.27	116.83	110.33
22	b	6015	CLA	C2B-C1B-NB	6.27	116.83	110.33
22	b	6020	CLA	C2B-C1B-NB	6.27	116.83	110.33
22	c	6028	CLA	C2B-C1B-NB	6.27	116.83	110.33
22	b	6016	CLA	C2B-C1B-NB	6.27	116.83	110.33
22	b	6018	CLA	C2B-C1B-NB	6.27	116.83	110.33
22	B	1010	CLA	C2B-C1B-NB	6.27	116.83	110.33
22	c	6031	CLA	C2B-C1B-NB	6.27	116.83	110.33
22	D	1005	CLA	C2B-C1B-NB	6.26	116.82	110.33
22	c	6036	CLA	C2B-C1B-NB	6.26	116.82	110.33
22	B	1015	CLA	C2B-C1B-NB	6.26	116.82	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	6013	CLA	C2B-C1B-NB	6.26	116.82	110.33
22	C	1033	CLA	C2B-C1B-NB	6.26	116.81	110.33
22	C	1028	CLA	C2B-C1B-NB	6.25	116.81	110.33
22	c	6032	CLA	C2B-C1B-NB	6.25	116.81	110.33
22	a	6007	CLA	C2B-C1B-NB	6.25	116.81	110.33
22	B	1012	CLA	C2B-C1B-NB	6.25	116.81	110.33
22	c	6025	CLA	C2B-C1B-NB	6.25	116.81	110.33
22	d	6008	CLA	C2B-C1B-NB	6.25	116.80	110.33
22	D	1008	CLA	C2B-C1B-NB	6.24	116.80	110.33
22	B	1009	CLA	C2B-C1B-NB	6.24	116.80	110.33
22	B	1009	CLA	C2C-C1C-NC	6.24	116.53	109.98
22	b	6009	CLA	C2C-C1C-NC	6.24	116.53	109.98
22	B	1022	CLA	C2B-C1B-NB	6.24	116.79	110.33
22	b	6012	CLA	C2B-C1B-NB	6.23	116.79	110.33
22	c	6033	CLA	C2B-C1B-NB	6.23	116.79	110.33
22	b	6022	CLA	C2B-C1B-NB	6.22	116.78	110.33
22	b	6011	CLA	C2B-C1B-NB	6.20	116.76	110.33
22	B	1011	CLA	C2B-C1B-NB	6.19	116.75	110.33
25	C	1052	BCR	C30-C25-C26	-6.17	114.21	122.64
22	b	6021	CLA	C2B-C1B-NB	6.16	116.72	110.33
22	B	1021	CLA	C2B-C1B-NB	6.16	116.71	110.33
22	c	6029	CLA	C2B-C1B-NB	6.15	116.70	110.33
22	C	1029	CLA	C2B-C1B-NB	6.14	116.69	110.33
25	k	6052	BCR	C30-C25-C26	-6.14	114.25	122.64
22	B	1010	CLA	C2C-C1C-NC	6.11	116.39	109.98
25	D	1050	BCR	C20-C19-C18	6.10	143.10	126.36
25	d	6050	BCR	C20-C19-C18	6.09	143.07	126.36
22	D	1008	CLA	C2C-C1C-NC	6.09	116.38	109.98
22	b	6023	CLA	C2B-C1B-NB	6.09	116.64	110.33
22	B	1023	CLA	C2B-C1B-NB	6.09	116.64	110.33
22	b	6024	CLA	C2C-C1C-NC	6.08	116.37	109.98
22	B	1024	CLA	C2C-C1C-NC	6.08	116.37	109.98
22	b	6010	CLA	C2C-C1C-NC	6.08	116.37	109.98
22	d	6005	CLA	C2C-C1C-NC	6.08	116.37	109.98
22	k	6034	CLA	C2C-C1C-NC	6.08	116.37	109.98
22	d	6008	CLA	C2C-C1C-NC	6.08	116.37	109.98
22	D	1005	CLA	C2C-C1C-NC	6.08	116.37	109.98
22	b	6014	CLA	C2C-C1C-NC	6.08	116.36	109.98
22	K	1034	CLA	C2C-C1C-NC	6.07	116.36	109.98
22	c	6029	CLA	C2C-C1C-NC	6.07	116.36	109.98
22	c	6031	CLA	C2C-C1C-NC	6.07	116.36	109.98
22	c	6033	CLA	C2C-C1C-NC	6.07	116.36	109.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	B	1021	CLA	C2C-C1C-NC	6.07	116.36	109.98
22	c	6035	CLA	C2C-C1C-NC	6.07	116.36	109.98
22	b	6022	CLA	C2C-C1C-NC	6.07	116.35	109.98
22	A	1007	CLA	C2C-C1C-NC	6.06	116.35	109.98
22	a	6007	CLA	C2C-C1C-NC	6.06	116.35	109.98
22	C	1029	CLA	C2C-C1C-NC	6.06	116.35	109.98
22	a	6006	CLA	C2C-C1C-NC	6.06	116.34	109.98
22	b	6023	CLA	C2C-C1C-NC	6.06	116.34	109.98
22	B	1019	CLA	C2C-C1C-NC	6.06	116.34	109.98
22	b	6013	CLA	C2C-C1C-NC	6.05	116.34	109.98
22	b	6021	CLA	C2C-C1C-NC	6.05	116.34	109.98
22	b	6012	CLA	C2C-C1C-NC	6.05	116.34	109.98
22	C	1033	CLA	C2C-C1C-NC	6.05	116.34	109.98
22	C	1035	CLA	C2C-C1C-NC	6.05	116.34	109.98
22	C	1025	CLA	C2C-C1C-NC	6.05	116.34	109.98
22	C	1026	CLA	C2C-C1C-NC	6.05	116.34	109.98
22	c	6028	CLA	C2C-C1C-NC	6.05	116.34	109.98
22	B	1013	CLA	C2C-C1C-NC	6.05	116.33	109.98
22	c	6026	CLA	C2C-C1C-NC	6.05	116.33	109.98
22	b	6019	CLA	C2C-C1C-NC	6.05	116.33	109.98
22	b	6020	CLA	C2C-C1C-NC	6.04	116.33	109.98
22	D	1004	CLA	C2C-C1C-NC	6.04	116.33	109.98
22	B	1014	CLA	C2C-C1C-NC	6.04	116.33	109.98
22	B	1022	CLA	C2C-C1C-NC	6.04	116.33	109.98
22	H	1017	CLA	C2C-C1C-NC	6.04	116.33	109.98
22	b	6018	CLA	C2C-C1C-NC	6.04	116.32	109.98
22	a	6003	CLA	C2C-C1C-NC	6.04	116.32	109.98
22	B	1020	CLA	C2C-C1C-NC	6.04	116.32	109.98
22	B	1016	CLA	C2C-C1C-NC	6.04	116.32	109.98
22	B	1012	CLA	C2C-C1C-NC	6.03	116.32	109.98
22	B	1015	CLA	C2C-C1C-NC	6.03	116.32	109.98
22	B	1018	CLA	C2C-C1C-NC	6.03	116.32	109.98
22	c	6036	CLA	C2C-C1C-NC	6.03	116.32	109.98
22	A	1006	CLA	C2C-C1C-NC	6.03	116.32	109.98
22	C	1031	CLA	C2C-C1C-NC	6.03	116.32	109.98
22	C	1036	CLA	C2C-C1C-NC	6.03	116.31	109.98
22	B	1011	CLA	C2C-C1C-NC	6.02	116.31	109.98
22	A	1003	CLA	C2C-C1C-NC	6.02	116.31	109.98
22	b	6015	CLA	C2C-C1C-NC	6.02	116.31	109.98
22	h	6017	CLA	C2C-C1C-NC	6.02	116.30	109.98
22	C	1028	CLA	C2C-C1C-NC	6.02	116.30	109.98
22	C	1027	CLA	C2C-C1C-NC	6.01	116.30	109.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	B	1023	CLA	C2C-C1C-NC	6.01	116.30	109.98
22	c	6025	CLA	C2C-C1C-NC	6.01	116.29	109.98
22	c	6027	CLA	C2C-C1C-NC	6.01	116.29	109.98
22	C	1032	CLA	C2C-C1C-NC	6.00	116.28	109.98
22	b	6011	CLA	C2C-C1C-NC	6.00	116.28	109.98
22	d	6004	CLA	C2C-C1C-NC	6.00	116.28	109.98
22	C	1037	CLA	C2C-C1C-NC	5.99	116.28	109.98
22	c	6032	CLA	C2C-C1C-NC	5.99	116.28	109.98
22	b	6016	CLA	C2C-C1C-NC	5.98	116.27	109.98
22	C	1030	CLA	C2C-C1C-NC	5.97	116.25	109.98
22	c	6030	CLA	C2C-C1C-NC	5.97	116.25	109.98
22	c	6030	CLA	C3B-C2B-C1B	-5.96	100.14	107.17
22	c	6037	CLA	C2C-C1C-NC	5.95	116.23	109.98
22	C	1030	CLA	C3B-C2B-C1B	-5.93	100.18	107.17
25	B	1045	BCR	C20-C19-C18	5.85	142.39	126.36
25	b	6045	BCR	C20-C19-C18	5.83	142.34	126.36
22	B	1010	CLA	C3B-C2B-C1B	-5.76	100.38	107.17
22	b	6010	CLA	C3B-C2B-C1B	-5.75	100.39	107.17
22	b	6011	CLA	C3B-C2B-C1B	-5.74	100.40	107.17
22	c	6031	CLA	C3B-C2B-C1B	-5.74	100.41	107.17
22	c	6035	CLA	C3B-C2B-C1B	-5.73	100.42	107.17
22	d	6004	CLA	C3B-C2B-C1B	-5.73	100.42	107.17
22	B	1009	CLA	C3B-C2B-C1B	-5.72	100.42	107.17
22	b	6022	CLA	C3B-C2B-C1B	-5.72	100.42	107.17
22	C	1025	CLA	C3B-C2B-C1B	-5.72	100.42	107.17
22	c	6037	CLA	C3B-C2B-C1B	-5.72	100.43	107.17
22	B	1018	CLA	C3B-C2B-C1B	-5.72	100.43	107.17
22	B	1011	CLA	C3B-C2B-C1B	-5.72	100.43	107.17
22	a	6006	CLA	C3B-C2B-C1B	-5.72	100.43	107.17
22	d	6005	CLA	C3B-C2B-C1B	-5.71	100.44	107.17
22	D	1004	CLA	C3B-C2B-C1B	-5.71	100.44	107.17
22	b	6009	CLA	C3B-C2B-C1B	-5.71	100.44	107.17
22	c	6026	CLA	C3B-C2B-C1B	-5.71	100.44	107.17
22	C	1037	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
22	C	1033	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
22	k	6034	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
22	B	1019	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
22	C	1035	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
22	B	1022	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
22	C	1031	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
22	H	1017	CLA	C3B-C2B-C1B	-5.70	100.45	107.17
22	B	1012	CLA	C3B-C2B-C1B	-5.70	100.46	107.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	C	1027	CLA	C3B-C2B-C1B	-5.70	100.46	107.17
22	B	1016	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
22	C	1026	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
22	K	1034	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
22	c	6025	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
22	A	1003	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
22	b	6019	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
22	C	1036	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
22	c	6027	CLA	C3B-C2B-C1B	-5.69	100.46	107.17
22	B	1014	CLA	C3B-C2B-C1B	-5.69	100.47	107.17
22	h	6017	CLA	C3B-C2B-C1B	-5.69	100.47	107.17
22	A	1006	CLA	C3B-C2B-C1B	-5.69	100.47	107.17
22	b	6018	CLA	C3B-C2B-C1B	-5.69	100.47	107.17
22	A	1007	CLA	C3B-C2B-C1B	-5.69	100.47	107.17
22	B	1013	CLA	C3B-C2B-C1B	-5.69	100.47	107.17
22	B	1020	CLA	C3B-C2B-C1B	-5.69	100.47	107.17
22	b	6014	CLA	C3B-C2B-C1B	-5.69	100.47	107.17
22	B	1024	CLA	C3B-C2B-C1B	-5.68	100.47	107.17
22	C	1028	CLA	C3B-C2B-C1B	-5.68	100.47	107.17
22	c	6028	CLA	C3B-C2B-C1B	-5.67	100.48	107.17
22	b	6012	CLA	C3B-C2B-C1B	-5.67	100.48	107.17
22	c	6033	CLA	C3B-C2B-C1B	-5.67	100.48	107.17
22	d	6008	CLA	C3B-C2B-C1B	-5.67	100.49	107.17
22	b	6016	CLA	C3B-C2B-C1B	-5.67	100.49	107.17
22	c	6036	CLA	C3B-C2B-C1B	-5.67	100.49	107.17
22	C	1032	CLA	C3B-C2B-C1B	-5.66	100.49	107.17
23	D	1039	PHO	CAC-C3C-C4C	-5.66	109.49	124.03
23	a	6038	PHO	CAC-C3C-C4C	-5.66	109.49	124.03
22	D	1005	CLA	C3B-C2B-C1B	-5.66	100.49	107.17
22	D	1008	CLA	C3B-C2B-C1B	-5.66	100.50	107.17
22	b	6024	CLA	C3B-C2B-C1B	-5.66	100.50	107.17
23	A	1038	PHO	CAC-C3C-C4C	-5.66	109.49	124.03
23	d	6039	PHO	CAC-C3C-C4C	-5.66	109.50	124.03
22	b	6013	CLA	C3B-C2B-C1B	-5.66	100.50	107.17
22	b	6015	CLA	C3B-C2B-C1B	-5.66	100.50	107.17
22	b	6020	CLA	C3B-C2B-C1B	-5.65	100.50	107.17
22	a	6003	CLA	C3B-C2B-C1B	-5.65	100.51	107.17
22	c	6032	CLA	C3B-C2B-C1B	-5.65	100.51	107.17
22	B	1015	CLA	C3B-C2B-C1B	-5.65	100.51	107.17
22	a	6007	CLA	C3B-C2B-C1B	-5.65	100.51	107.17
22	C	1029	CLA	C3B-C2B-C1B	-5.64	100.52	107.17
22	c	6029	CLA	C3B-C2B-C1B	-5.63	100.53	107.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	6021	CLA	C3B-C2B-C1B	-5.62	100.54	107.17
25	B	1047	BCR	C11-C12-C13	5.62	141.78	126.36
25	h	6049	BCR	C20-C19-C18	5.61	141.74	126.36
25	H	1049	BCR	C20-C19-C18	5.61	141.74	126.36
25	b	6047	BCR	C11-C12-C13	5.61	141.74	126.36
22	B	1021	CLA	C3B-C2B-C1B	-5.60	100.56	107.17
22	B	1023	CLA	C3B-C2B-C1B	-5.60	100.57	107.17
25	k	6052	BCR	C20-C19-C18	5.60	141.71	126.36
22	b	6023	CLA	C3B-C2B-C1B	-5.59	100.58	107.17
25	k	6051	BCR	C20-C19-C18	5.59	141.69	126.36
25	C	1052	BCR	C20-C19-C18	5.58	141.66	126.36
25	K	1051	BCR	C20-C19-C18	5.58	141.66	126.36
25	Z	1053	BCR	C20-C19-C18	5.58	141.66	126.36
25	b	6045	BCR	C11-C12-C13	5.58	141.65	126.36
25	B	1045	BCR	C11-C12-C13	5.57	141.63	126.36
25	z	6053	BCR	C20-C19-C18	5.56	141.62	126.36
25	T	6046	BCR	C20-C19-C18	5.53	141.54	126.36
31	v	6041	HEM	C4D-ND-C1D	5.51	111.74	105.21
25	t	1046	BCR	C20-C19-C18	5.51	141.46	126.36
31	V	1041	HEM	C4D-ND-C1D	5.49	111.71	105.21
31	f	6040	HEM	C4D-ND-C1D	5.49	111.71	105.21
31	F	1040	HEM	C4D-ND-C1D	5.48	111.69	105.21
23	D	1039	PHO	C4D-ND-C1D	-5.36	102.45	108.87
23	d	6039	PHO	C4D-ND-C1D	-5.36	102.45	108.87
23	a	6038	PHO	C4D-ND-C1D	-5.34	102.47	108.87
23	A	1038	PHO	C4D-ND-C1D	-5.34	102.48	108.87
25	A	1044	BCR	C20-C19-C18	5.29	140.87	126.36
25	a	6044	BCR	C20-C19-C18	5.29	140.86	126.36
25	T	6046	BCR	C11-C12-C13	5.26	140.79	126.36
25	h	6049	BCR	C15-C14-C13	-5.25	119.92	127.28
25	t	1046	BCR	C11-C12-C13	5.24	140.73	126.36
25	c	6054	BCR	C15-C14-C13	-5.23	119.94	127.28
25	C	1054	BCR	C15-C14-C13	-5.23	119.95	127.28
25	k	6051	BCR	C11-C10-C9	-5.22	119.95	127.28
25	k	6052	BCR	C11-C10-C9	-5.22	119.95	127.28
25	B	1045	BCR	C15-C14-C13	-5.22	119.96	127.28
25	C	1052	BCR	C11-C10-C9	-5.21	119.97	127.28
25	D	1050	BCR	C11-C10-C9	-5.21	119.97	127.28
25	b	6045	BCR	C15-C14-C13	-5.21	119.97	127.28
25	H	1049	BCR	C15-C14-C13	-5.21	119.98	127.28
25	B	1045	BCR	C11-C10-C9	-5.20	119.98	127.28
25	Z	1053	BCR	C15-C14-C13	-5.20	119.98	127.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	z	6053	BCR	C15-C14-C13	-5.20	119.98	127.28
25	K	1051	BCR	C11-C10-C9	-5.20	119.99	127.28
25	b	6045	BCR	C11-C10-C9	-5.20	119.99	127.28
22	B	1023	CLA	O2D-CGD-CBD	5.20	120.32	111.23
22	b	6023	CLA	O2D-CGD-CBD	5.20	120.32	111.23
25	d	6050	BCR	C11-C10-C9	-5.20	119.99	127.28
25	b	6047	BCR	C15-C14-C13	-5.19	119.99	127.28
25	B	1047	BCR	C15-C14-C13	-5.19	119.99	127.28
25	Z	1053	BCR	C11-C10-C9	-5.19	120.00	127.28
25	b	6047	BCR	C11-C10-C9	-5.19	120.00	127.28
25	d	6050	BCR	C15-C14-C13	-5.19	120.00	127.28
23	d	6039	PHO	C3D-C4D-ND	5.19	114.36	107.71
25	H	1049	BCR	C11-C10-C9	-5.19	120.00	127.28
25	C	1052	BCR	C15-C14-C13	-5.18	120.01	127.28
25	K	1051	BCR	C15-C14-C13	-5.18	120.02	127.28
25	T	6048	BCR	C15-C14-C13	-5.18	120.02	127.28
25	D	1050	BCR	C15-C14-C13	-5.18	120.02	127.28
25	T	6048	BCR	C11-C10-C9	-5.18	120.02	127.28
25	c	6054	BCR	C11-C10-C9	-5.17	120.03	127.28
25	B	1047	BCR	C11-C10-C9	-5.17	120.03	127.28
25	B	1048	BCR	C11-C10-C9	-5.17	120.03	127.28
25	k	6051	BCR	C15-C14-C13	-5.17	120.03	127.28
23	D	1039	PHO	C3D-C4D-ND	5.17	114.33	107.71
25	B	1048	BCR	C15-C14-C13	-5.17	120.03	127.28
23	A	1038	PHO	C3D-C4D-ND	5.16	114.33	107.71
25	h	6049	BCR	C11-C10-C9	-5.16	120.04	127.28
25	k	6052	BCR	C15-C14-C13	-5.15	120.05	127.28
25	z	6053	BCR	C11-C10-C9	-5.15	120.06	127.28
25	C	1054	BCR	C11-C10-C9	-5.14	120.06	127.28
23	a	6038	PHO	C3D-C4D-ND	5.14	114.30	107.71
22	C	1037	CLA	O2D-CGD-CBD	5.07	120.10	111.23
22	c	6031	CLA	O2D-CGD-CBD	5.07	120.10	111.23
22	A	1003	CLA	O2D-CGD-CBD	5.07	120.09	111.23
22	c	6037	CLA	O2D-CGD-CBD	5.07	120.09	111.23
22	C	1028	CLA	O2D-CGD-CBD	5.06	120.08	111.23
22	h	6017	CLA	O2D-CGD-CBD	5.06	120.08	111.23
22	c	6028	CLA	O2D-CGD-CBD	5.06	120.08	111.23
22	a	6003	CLA	O2D-CGD-CBD	5.06	120.07	111.23
22	H	1017	CLA	O2D-CGD-CBD	5.05	120.07	111.23
22	b	6015	CLA	O2D-CGD-CBD	5.05	120.06	111.23
22	B	1015	CLA	O2D-CGD-CBD	5.05	120.05	111.23
22	B	1012	CLA	O2D-CGD-CBD	5.05	120.05	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	C	1031	CLA	O2D-CGD-CBD	5.05	120.05	111.23
22	c	6035	CLA	O2D-CGD-CBD	5.04	120.05	111.23
22	a	6006	CLA	O2D-CGD-CBD	5.04	120.05	111.23
22	a	6007	CLA	O2D-CGD-CBD	5.04	120.04	111.23
22	A	1006	CLA	O2D-CGD-CBD	5.04	120.03	111.23
22	B	1014	CLA	O2D-CGD-CBD	5.04	120.03	111.23
22	b	6012	CLA	O2D-CGD-CBD	5.03	120.03	111.23
22	B	1013	CLA	O2D-CGD-CBD	5.03	120.02	111.23
22	c	6025	CLA	O2D-CGD-CBD	5.03	120.02	111.23
22	C	1027	CLA	O2D-CGD-CBD	5.03	120.02	111.23
22	b	6013	CLA	O2D-CGD-CBD	5.02	120.01	111.23
22	b	6019	CLA	O2D-CGD-CBD	5.02	120.01	111.23
22	d	6004	CLA	O2D-CGD-CBD	5.02	120.01	111.23
22	b	6020	CLA	O2D-CGD-CBD	5.02	120.01	111.23
22	A	1007	CLA	O2D-CGD-CBD	5.02	120.00	111.23
22	C	1035	CLA	O2D-CGD-CBD	5.02	120.00	111.23
22	b	6014	CLA	O2D-CGD-CBD	5.02	120.00	111.23
22	B	1019	CLA	O2D-CGD-CBD	5.02	120.00	111.23
22	C	1025	CLA	O2D-CGD-CBD	5.01	120.00	111.23
22	C	1026	CLA	O2D-CGD-CBD	5.01	119.99	111.23
22	D	1004	CLA	O2D-CGD-CBD	5.01	119.99	111.23
22	c	6026	CLA	O2D-CGD-CBD	5.01	119.99	111.23
22	B	1024	CLA	O2D-CGD-CBD	5.01	119.98	111.23
22	B	1022	CLA	O2D-CGD-CBD	5.00	119.98	111.23
22	b	6018	CLA	O2D-CGD-CBD	5.00	119.98	111.23
22	B	1020	CLA	O2D-CGD-CBD	5.00	119.97	111.23
22	B	1016	CLA	O2D-CGD-CBD	5.00	119.97	111.23
22	C	1033	CLA	O2D-CGD-CBD	5.00	119.97	111.23
22	b	6024	CLA	O2D-CGD-CBD	5.00	119.97	111.23
22	c	6027	CLA	O2D-CGD-CBD	5.00	119.97	111.23
22	C	1032	CLA	O2D-CGD-CBD	5.00	119.97	111.23
22	c	6036	CLA	O2D-CGD-CBD	5.00	119.96	111.23
22	d	6005	CLA	O2D-CGD-CBD	4.99	119.96	111.23
22	B	1018	CLA	O2D-CGD-CBD	4.99	119.96	111.23
22	b	6022	CLA	O2D-CGD-CBD	4.99	119.96	111.23
22	C	1036	CLA	O2D-CGD-CBD	4.99	119.95	111.23
22	c	6033	CLA	O2D-CGD-CBD	4.99	119.94	111.23
22	D	1005	CLA	O2D-CGD-CBD	4.98	119.94	111.23
22	b	6016	CLA	O2D-CGD-CBD	4.97	119.92	111.23
22	c	6032	CLA	O2D-CGD-CBD	4.97	119.92	111.23
22	K	1034	CLA	O2D-CGD-CBD	4.97	119.92	111.23
22	b	6021	CLA	O2D-CGD-CBD	4.97	119.92	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	B	1021	CLA	O2D-CGD-CBD	4.96	119.91	111.23
22	k	6034	CLA	O2D-CGD-CBD	4.96	119.91	111.23
22	B	1010	CLA	O2D-CGD-CBD	4.94	119.87	111.23
22	b	6010	CLA	O2D-CGD-CBD	4.92	119.82	111.23
23	A	1038	PHO	OBD-CAD-C3D	-4.74	120.49	127.89
23	D	1039	PHO	OBD-CAD-C3D	-4.74	120.49	127.89
23	d	6039	PHO	OBD-CAD-C3D	-4.73	120.51	127.89
25	t	1046	BCR	C15-C14-C13	-4.73	120.64	127.28
23	a	6038	PHO	OBD-CAD-C3D	-4.73	120.52	127.89
25	T	6046	BCR	C15-C14-C13	-4.72	120.67	127.28
22	c	6030	CLA	C3D-C2D-C1D	-4.63	99.51	105.83
25	A	1044	BCR	C30-C25-C26	-4.63	116.31	122.64
25	a	6044	BCR	C11-C10-C9	-4.63	120.79	127.28
25	T	6046	BCR	C11-C10-C9	-4.63	120.79	127.28
25	a	6044	BCR	C30-C25-C26	-4.62	116.32	122.64
25	C	1052	BCR	C28-C27-C26	-4.62	105.81	114.06
25	t	1046	BCR	C11-C10-C9	-4.62	120.80	127.28
25	k	6052	BCR	C28-C27-C26	-4.62	105.82	114.06
22	C	1030	CLA	C3D-C2D-C1D	-4.62	99.53	105.83
25	A	1044	BCR	C11-C10-C9	-4.59	120.84	127.28
22	b	6010	CLA	C3D-C2D-C1D	-4.58	99.59	105.83
25	C	1052	BCR	C27-C26-C25	-4.58	116.52	122.70
22	c	6036	CLA	C3D-C2D-C1D	-4.57	99.59	105.83
22	B	1010	CLA	C3D-C2D-C1D	-4.57	99.60	105.83
25	k	6052	BCR	C27-C26-C25	-4.57	116.53	122.70
22	b	6018	CLA	C3D-C2D-C1D	-4.56	99.60	105.83
22	C	1036	CLA	C3D-C2D-C1D	-4.55	99.62	105.83
22	d	6004	CLA	C3D-C2D-C1D	-4.55	99.62	105.83
22	a	6003	CLA	C3D-C2D-C1D	-4.54	99.63	105.83
22	c	6027	CLA	C3D-C2D-C1D	-4.54	99.63	105.83
22	B	1018	CLA	C3D-C2D-C1D	-4.54	99.63	105.83
22	b	6011	CLA	C3D-C2D-C1D	-4.54	99.64	105.83
22	B	1011	CLA	C3D-C2D-C1D	-4.54	99.64	105.83
22	b	6020	CLA	C3D-C2D-C1D	-4.54	99.64	105.83
22	C	1037	CLA	C3D-C2D-C1D	-4.53	99.64	105.83
22	B	1023	CLA	C3D-C2D-C1D	-4.53	99.64	105.83
22	b	6016	CLA	C3D-C2D-C1D	-4.53	99.64	105.83
22	b	6020	CLA	CHD-C1D-ND	-4.53	118.42	124.80
22	B	1019	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
22	C	1032	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
22	D	1005	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
22	b	6023	CLA	C3D-C2D-C1D	-4.53	99.65	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	h	6017	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
22	D	1004	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
22	B	1016	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
22	C	1025	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
22	C	1026	CLA	C3D-C2D-C1D	-4.53	99.65	105.83
22	b	6012	CLA	C3D-C2D-C1D	-4.53	99.66	105.83
22	C	1027	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
22	c	6025	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
22	b	6012	CLA	CHD-C1D-ND	-4.52	118.44	124.80
22	d	6008	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
22	B	1012	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
22	B	1021	CLA	C3D-C2D-C1D	-4.52	99.66	105.83
22	C	1031	CLA	C3D-C2D-C1D	-4.52	99.67	105.83
22	B	1014	CLA	C3D-C2D-C1D	-4.52	99.67	105.83
22	B	1020	CLA	C3D-C2D-C1D	-4.52	99.67	105.83
22	K	1034	CLA	C3D-C2D-C1D	-4.52	99.67	105.83
22	b	6013	CLA	C3D-C2D-C1D	-4.51	99.67	105.83
22	c	6037	CLA	C3D-C2D-C1D	-4.51	99.67	105.83
22	d	6005	CLA	C3D-C2D-C1D	-4.51	99.67	105.83
22	c	6031	CLA	C3D-C2D-C1D	-4.51	99.67	105.83
22	b	6022	CLA	C3D-C2D-C1D	-4.51	99.67	105.83
22	b	6016	CLA	CHD-C1D-ND	-4.51	118.45	124.80
22	a	6007	CLA	C3D-C2D-C1D	-4.51	99.67	105.83
22	A	1003	CLA	C3D-C2D-C1D	-4.51	99.67	105.83
22	B	1024	CLA	C3D-C2D-C1D	-4.51	99.67	105.83
22	A	1007	CLA	C3D-C2D-C1D	-4.51	99.68	105.83
22	b	6019	CLA	C3D-C2D-C1D	-4.51	99.68	105.83
22	B	1015	CLA	C3D-C2D-C1D	-4.51	99.68	105.83
22	k	6034	CLA	CHD-C1D-ND	-4.51	118.46	124.80
22	b	6015	CLA	C3D-C2D-C1D	-4.51	99.68	105.83
22	b	6023	CLA	CHD-C1D-ND	-4.51	118.46	124.80
22	c	6026	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
22	B	1012	CLA	CHD-C1D-ND	-4.50	118.47	124.80
22	B	1022	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
22	c	6035	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
22	b	6021	CLA	CHD-C1D-ND	-4.50	118.47	124.80
22	a	6006	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
22	b	6014	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
22	C	1033	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
22	A	1006	CLA	C3D-C2D-C1D	-4.50	99.69	105.83
22	B	1023	CLA	CHD-C1D-ND	-4.50	118.47	124.80
22	C	1028	CLA	C3D-C2D-C1D	-4.50	99.69	105.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	C	1033	CLA	CHD-C1D-ND	-4.50	118.47	124.80
22	b	6024	CLA	C3D-C2D-C1D	-4.50	99.70	105.83
22	b	6021	CLA	C3D-C2D-C1D	-4.49	99.70	105.83
22	C	1035	CLA	CHD-C1D-ND	-4.49	118.48	124.80
22	b	6015	CLA	CHD-C1D-ND	-4.49	118.48	124.80
22	A	1003	CLA	CHD-C1D-ND	-4.49	118.48	124.80
22	B	1018	CLA	CHD-C1D-ND	-4.49	118.48	124.80
22	c	6032	CLA	CHD-C1D-ND	-4.49	118.48	124.80
22	B	1020	CLA	CHD-C1D-ND	-4.49	118.48	124.80
22	H	1017	CLA	C3D-C2D-C1D	-4.49	99.70	105.83
22	A	1006	CLA	CHD-C1D-ND	-4.49	118.48	124.80
22	a	6006	CLA	CHD-C1D-ND	-4.49	118.48	124.80
22	c	6028	CLA	C3D-C2D-C1D	-4.49	99.71	105.83
22	c	6025	CLA	CHD-C1D-ND	-4.49	118.49	124.80
22	C	1035	CLA	C3D-C2D-C1D	-4.49	99.71	105.83
22	C	1029	CLA	C3D-C2D-C1D	-4.49	99.71	105.83
22	A	1007	CLA	CHD-C1D-ND	-4.49	118.49	124.80
22	K	1034	CLA	CHD-C1D-ND	-4.49	118.49	124.80
22	B	1021	CLA	CHD-C1D-ND	-4.49	118.49	124.80
22	a	6007	CLA	CHD-C1D-ND	-4.48	118.49	124.80
22	D	1008	CLA	C3D-C2D-C1D	-4.48	99.71	105.83
22	B	1015	CLA	CHD-C1D-ND	-4.48	118.49	124.80
22	C	1036	CLA	CHD-C1D-ND	-4.48	118.49	124.80
22	B	1013	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
22	B	1014	CLA	CHD-C1D-ND	-4.48	118.50	124.80
22	c	6036	CLA	CHD-C1D-ND	-4.48	118.50	124.80
22	c	6032	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
22	k	6034	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
22	c	6033	CLA	C3D-C2D-C1D	-4.48	99.72	105.83
22	D	1005	CLA	CHD-C1D-ND	-4.48	118.50	124.80
22	c	6027	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	b	6014	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	c	6035	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	d	6004	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	C	1031	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	C	1032	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	d	6005	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	h	6017	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	c	6029	CLA	C3D-C2D-C1D	-4.47	99.73	105.83
22	B	1016	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	b	6018	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	D	1004	CLA	CHD-C1D-ND	-4.47	118.51	124.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	a	6003	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	b	6019	CLA	CHD-C1D-ND	-4.47	118.51	124.80
22	B	1009	CLA	C3D-C2D-C1D	-4.47	99.73	105.83
22	B	1019	CLA	CHD-C1D-ND	-4.47	118.52	124.80
22	c	6033	CLA	CHD-C1D-ND	-4.47	118.52	124.80
22	C	1025	CLA	CHD-C1D-ND	-4.46	118.52	124.80
22	H	1017	CLA	CHD-C1D-ND	-4.46	118.52	124.80
22	B	1022	CLA	CHD-C1D-ND	-4.46	118.52	124.80
22	c	6026	CLA	CHD-C1D-ND	-4.46	118.52	124.80
22	C	1026	CLA	CHD-C1D-ND	-4.46	118.53	124.80
22	C	1027	CLA	CHD-C1D-ND	-4.46	118.53	124.80
22	B	1024	CLA	CHD-C1D-ND	-4.45	118.53	124.80
22	c	6031	CLA	CHD-C1D-ND	-4.45	118.53	124.80
22	b	6009	CLA	C3D-C2D-C1D	-4.45	99.76	105.83
22	b	6013	CLA	CHD-C1D-ND	-4.45	118.54	124.80
22	C	1028	CLA	CHD-C1D-ND	-4.45	118.54	124.80
22	C	1037	CLA	CHD-C1D-ND	-4.44	118.55	124.80
22	c	6028	CLA	CHD-C1D-ND	-4.44	118.55	124.80
22	B	1013	CLA	CHD-C1D-ND	-4.44	118.56	124.80
22	B	1010	CLA	CHD-C1D-ND	-4.43	118.56	124.80
22	c	6029	CLA	CHD-C1D-ND	-4.43	118.57	124.80
22	c	6037	CLA	CHD-C1D-ND	-4.43	118.57	124.80
22	b	6022	CLA	CHD-C1D-ND	-4.43	118.57	124.80
22	b	6024	CLA	CHD-C1D-ND	-4.42	118.58	124.80
22	c	6030	CLA	CHD-C1D-ND	-4.42	118.58	124.80
22	C	1029	CLA	CHD-C1D-ND	-4.42	118.58	124.80
22	C	1030	CLA	CHD-C1D-ND	-4.42	118.59	124.80
22	b	6010	CLA	CHD-C1D-ND	-4.39	118.62	124.80
25	C	1052	BCR	C7-C8-C9	4.39	132.74	126.23
25	k	6052	BCR	C7-C8-C9	4.39	132.74	126.23
22	b	6011	CLA	CHD-C1D-ND	-4.37	118.65	124.80
22	d	6008	CLA	CHD-C1D-ND	-4.36	118.67	124.80
22	b	6009	CLA	CHD-C1D-ND	-4.35	118.68	124.80
23	a	6038	PHO	C4B-NB-C1B	-4.35	102.48	108.82
22	D	1008	CLA	CHD-C1D-ND	-4.35	118.69	124.80
22	B	1011	CLA	CHD-C1D-ND	-4.34	118.69	124.80
22	B	1009	CLA	CHD-C1D-ND	-4.34	118.69	124.80
23	A	1038	PHO	C4B-NB-C1B	-4.34	102.50	108.82
22	C	1029	CLA	O2D-CGD-CBD	4.34	118.81	111.23
22	c	6029	CLA	O2D-CGD-CBD	4.32	118.78	111.23
23	D	1039	PHO	C4B-NB-C1B	-4.31	102.53	108.82
23	d	6039	PHO	C4B-NB-C1B	-4.31	102.53	108.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	b	6047	BCR	C24-C23-C22	4.29	132.59	126.23
25	a	6044	BCR	C24-C23-C22	4.28	132.57	126.23
25	B	1047	BCR	C30-C25-C26	-4.28	116.79	122.64
25	b	6047	BCR	C30-C25-C26	-4.27	116.80	122.64
25	B	1048	BCR	C30-C25-C26	-4.27	116.80	122.64
25	A	1044	BCR	C24-C23-C22	4.27	132.55	126.23
25	T	6048	BCR	C30-C25-C26	-4.26	116.81	122.64
25	B	1047	BCR	C24-C23-C22	4.26	132.53	126.23
25	B	1048	BCR	C24-C23-C22	4.25	132.53	126.23
25	c	6054	BCR	C24-C23-C22	-4.25	119.95	126.23
25	k	6051	BCR	C24-C23-C22	-4.25	119.95	126.23
25	T	6046	BCR	C24-C23-C22	-4.24	119.96	126.23
25	h	6049	BCR	C24-C23-C22	-4.24	119.96	126.23
25	T	6048	BCR	C24-C23-C22	4.24	132.50	126.23
25	C	1054	BCR	C24-C23-C22	-4.24	119.97	126.23
25	h	6049	BCR	C38-C26-C25	-4.24	119.86	124.48
25	H	1049	BCR	C24-C23-C22	-4.23	119.97	126.23
25	K	1051	BCR	C24-C23-C22	-4.23	119.97	126.23
25	t	1046	BCR	C24-C23-C22	-4.23	119.97	126.23
22	b	6021	CLA	C1C-C2C-C3C	-4.22	102.54	106.98
25	D	1050	BCR	C24-C23-C22	-4.22	120.00	126.23
22	B	1009	CLA	O2D-CGD-CBD	4.21	118.60	111.23
22	B	1021	CLA	C1C-C2C-C3C	-4.21	102.55	106.98
25	H	1049	BCR	C38-C26-C25	-4.21	119.89	124.48
25	z	6053	BCR	C24-C23-C22	-4.21	120.01	126.23
25	Z	1053	BCR	C24-C23-C22	-4.20	120.02	126.23
22	b	6009	CLA	O2D-CGD-CBD	4.20	118.58	111.23
22	b	6011	CLA	C3C-C4C-NC	4.19	115.80	110.43
25	B	1045	BCR	C24-C23-C22	-4.19	120.03	126.23
25	B	1047	BCR	C37-C22-C23	4.19	124.49	118.09
25	b	6045	BCR	C24-C23-C22	-4.19	120.03	126.23
25	b	6045	BCR	C33-C5-C6	-4.19	119.91	124.48
25	C	1054	BCR	C38-C26-C25	-4.19	119.92	124.48
25	B	1048	BCR	C37-C22-C23	4.19	124.48	118.09
22	B	1011	CLA	C3C-C4C-NC	4.18	115.79	110.43
22	B	1009	CLA	C1C-C2C-C3C	-4.18	102.58	106.98
25	T	6048	BCR	C37-C22-C23	4.18	124.47	118.09
25	d	6050	BCR	C38-C26-C25	-4.17	119.93	124.48
25	b	6047	BCR	C37-C22-C23	4.17	124.46	118.09
22	k	6034	CLA	C1C-C2C-C3C	-4.17	102.59	106.98
22	a	6007	CLA	C1C-C2C-C3C	-4.17	102.59	106.98
25	d	6050	BCR	C24-C23-C22	-4.17	120.07	126.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	6009	CLA	C1C-C2C-C3C	-4.17	102.60	106.98
22	d	6008	CLA	C3B-C4B-NB	4.16	114.25	110.53
25	B	1045	BCR	C33-C5-C6	-4.16	119.94	124.48
25	c	6054	BCR	C38-C26-C25	-4.16	119.95	124.48
22	A	1007	CLA	C1C-C2C-C3C	-4.14	102.62	106.98
25	H	1049	BCR	C33-C5-C6	-4.14	119.96	124.48
25	D	1050	BCR	C38-C26-C25	-4.14	119.96	124.48
25	k	6052	BCR	C33-C5-C6	-4.14	119.96	124.48
25	k	6051	BCR	C33-C5-C6	-4.14	119.97	124.48
25	K	1051	BCR	C38-C26-C25	-4.14	119.97	124.48
25	h	6049	BCR	C33-C5-C6	-4.14	119.97	124.48
25	k	6051	BCR	C38-C26-C25	-4.14	119.97	124.48
25	K	1051	BCR	C33-C5-C6	-4.14	119.97	124.48
22	D	1008	CLA	C3B-C4B-NB	4.13	114.22	110.53
25	B	1047	BCR	C33-C5-C6	-4.13	119.97	124.48
22	b	6012	CLA	C1C-C2C-C3C	-4.13	102.63	106.98
22	K	1034	CLA	C1C-C2C-C3C	-4.13	102.64	106.98
22	b	6023	CLA	C1C-C2C-C3C	-4.13	102.64	106.98
25	b	6045	BCR	C38-C26-C25	-4.13	119.98	124.48
22	b	6015	CLA	C3C-C4C-NC	4.13	115.72	110.43
22	D	1005	CLA	C1C-C2C-C3C	-4.13	102.64	106.98
25	Z	1053	BCR	C38-C26-C25	-4.13	119.98	124.48
22	c	6027	CLA	C1C-C2C-C3C	-4.13	102.64	106.98
22	b	6014	CLA	C1C-C2C-C3C	-4.12	102.64	106.98
22	d	6005	CLA	C1C-C2C-C3C	-4.12	102.64	106.98
22	B	1012	CLA	C1C-C2C-C3C	-4.12	102.64	106.98
22	C	1030	CLA	C1C-C2C-C3C	-4.12	102.64	106.98
22	C	1030	CLA	C3C-C4C-NC	4.12	115.71	110.43
22	c	6031	CLA	C1C-C2C-C3C	-4.12	102.65	106.98
22	D	1008	CLA	C1C-C2C-C3C	-4.12	102.65	106.98
22	d	6008	CLA	C1C-C2C-C3C	-4.12	102.65	106.98
25	T	6048	BCR	C33-C5-C6	-4.12	119.99	124.48
22	B	1020	CLA	C1C-C2C-C3C	-4.11	102.65	106.98
22	b	6019	CLA	C1C-C2C-C3C	-4.11	102.65	106.98
22	c	6026	CLA	C1C-C2C-C3C	-4.11	102.65	106.98
22	a	6006	CLA	C1C-C2C-C3C	-4.11	102.65	106.98
22	b	6020	CLA	C1C-C2C-C3C	-4.11	102.65	106.98
25	B	1048	BCR	C33-C5-C6	-4.11	120.00	124.48
22	b	6022	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
25	B	1045	BCR	C38-C26-C25	-4.11	120.00	124.48
22	B	1014	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
22	b	6018	CLA	C1C-C2C-C3C	-4.11	102.66	106.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	B	1010	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
22	B	1016	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
22	b	6024	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
22	C	1027	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
25	z	6053	BCR	C38-C26-C25	-4.11	120.00	124.48
25	C	1052	BCR	C33-C5-C6	-4.11	120.00	124.48
22	B	1022	CLA	C1C-C2C-C3C	-4.11	102.66	106.98
25	c	6054	BCR	C33-C5-C6	-4.10	120.00	124.48
22	C	1027	CLA	C3C-C4C-NC	4.10	115.69	110.43
22	c	6035	CLA	C3C-C4C-NC	4.10	115.69	110.43
22	A	1006	CLA	C1C-C2C-C3C	-4.10	102.67	106.98
22	B	1024	CLA	C1C-C2C-C3C	-4.10	102.67	106.98
22	c	6030	CLA	C1C-C2C-C3C	-4.10	102.67	106.98
25	b	6047	BCR	C30-C25-C24	4.10	126.77	115.65
22	c	6036	CLA	C1C-C2C-C3C	-4.10	102.67	106.98
22	C	1033	CLA	C1C-C2C-C3C	-4.10	102.67	106.98
25	D	1050	BCR	C33-C5-C6	-4.10	120.01	124.48
22	a	6003	CLA	C3C-C4C-NC	4.10	115.68	110.43
22	b	6016	CLA	C3C-C4C-NC	4.10	115.68	110.43
22	b	6020	CLA	C3B-C4B-NB	4.09	114.19	110.53
22	H	1017	CLA	C1C-C2C-C3C	-4.09	102.67	106.98
25	B	1048	BCR	C38-C26-C25	-4.09	120.02	124.48
25	b	6047	BCR	C33-C5-C6	-4.09	120.02	124.48
22	B	1010	CLA	C3C-C4C-NC	4.09	115.67	110.43
22	b	6010	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
22	b	6015	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
22	b	6009	CLA	C3C-C4C-NC	4.09	115.67	110.43
25	B	1047	BCR	C30-C25-C24	4.09	126.75	115.65
22	B	1023	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
22	b	6013	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
22	K	1034	CLA	C3C-C4C-NC	4.09	115.67	110.43
25	A	1044	BCR	C15-C14-C13	-4.09	121.54	127.28
22	B	1009	CLA	C3C-C4C-NC	4.09	115.67	110.43
22	B	1016	CLA	C3C-C4C-NC	4.09	115.67	110.43
22	b	6010	CLA	C3C-C4C-NC	4.09	115.67	110.43
22	c	6027	CLA	C3C-C4C-NC	4.09	115.67	110.43
22	B	1019	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
25	z	6053	BCR	C33-C5-C6	-4.09	120.02	124.48
22	b	6020	CLA	C3C-C4C-NC	4.09	115.67	110.43
22	c	6032	CLA	C3C-C4C-NC	4.09	115.67	110.43
22	C	1030	CLA	CHD-C4C-C3C	-4.09	118.81	124.77
22	B	1013	CLA	C1C-C2C-C3C	-4.09	102.68	106.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	c	6033	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
25	A	1044	BCR	C33-C5-C6	-4.09	120.02	124.48
25	Z	1053	BCR	C33-C5-C6	-4.09	120.02	124.48
22	B	1013	CLA	C3C-C4C-NC	4.09	115.67	110.43
22	c	6030	CLA	C3C-C4C-NC	4.09	115.67	110.43
22	h	6017	CLA	C3C-C4C-NC	4.09	115.67	110.43
25	C	1054	BCR	C33-C5-C6	-4.09	120.03	124.48
22	b	6016	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
22	c	6035	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
22	B	1015	CLA	C3C-C4C-NC	4.09	115.66	110.43
22	C	1031	CLA	C1C-C2C-C3C	-4.09	102.68	106.98
22	c	6030	CLA	CHD-C4C-C3C	-4.09	118.82	124.77
22	C	1025	CLA	C1C-C2C-C3C	-4.08	102.68	106.98
22	b	6010	CLA	C3B-C4B-NB	4.08	114.18	110.53
25	b	6047	BCR	C38-C26-C25	-4.08	120.03	124.48
22	C	1036	CLA	C1C-C2C-C3C	-4.08	102.69	106.98
22	B	1020	CLA	C3B-C4B-NB	4.08	114.17	110.53
22	C	1035	CLA	C3C-C4C-NC	4.08	115.66	110.43
22	B	1015	CLA	C1C-C2C-C3C	-4.08	102.69	106.98
22	C	1026	CLA	C1C-C2C-C3C	-4.08	102.69	106.98
25	d	6050	BCR	C33-C5-C6	-4.08	120.03	124.48
22	D	1004	CLA	C1C-C2C-C3C	-4.08	102.69	106.98
22	H	1017	CLA	C3C-C4C-NC	4.08	115.66	110.43
22	c	6036	CLA	C3B-C4B-NB	4.08	114.17	110.53
22	b	6020	CLA	C1D-ND-C4D	-4.08	103.45	106.31
25	B	1047	BCR	C38-C26-C25	-4.08	120.03	124.48
22	C	1029	CLA	C3C-C4C-NC	4.08	115.65	110.43
22	B	1018	CLA	C1C-C2C-C3C	-4.08	102.69	106.98
22	k	6034	CLA	C3C-C4C-NC	4.08	115.65	110.43
22	b	6015	CLA	C3B-C4B-NB	4.07	114.17	110.53
22	b	6022	CLA	C3C-C4C-NC	4.07	115.65	110.43
22	B	1022	CLA	C3C-C4C-NC	4.07	115.65	110.43
22	C	1032	CLA	C3C-C4C-NC	4.07	115.65	110.43
22	b	6019	CLA	C3C-C4C-NC	4.07	115.65	110.43
22	b	6009	CLA	C3B-C4B-NB	4.07	114.17	110.53
22	c	6025	CLA	C3C-C4C-NC	4.07	115.64	110.43
22	c	6036	CLA	C3C-C4C-NC	4.07	115.64	110.43
22	h	6017	CLA	C1C-C2C-C3C	-4.07	102.70	106.98
22	C	1026	CLA	C3C-C4C-NC	4.07	115.64	110.43
22	c	6029	CLA	C1C-C2C-C3C	-4.07	102.70	106.98
22	B	1014	CLA	C3C-C4C-NC	4.07	115.64	110.43
22	C	1029	CLA	C1C-C2C-C3C	-4.07	102.70	106.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	A	1003	CLA	C3C-C4C-NC	4.07	115.64	110.43
22	d	6005	CLA	C3C-C4C-NC	4.07	115.64	110.43
22	B	1023	CLA	C1D-ND-C4D	-4.07	103.46	106.31
22	c	6025	CLA	C1C-C2C-C3C	-4.07	102.70	106.98
22	B	1024	CLA	C3C-C4C-NC	4.06	115.64	110.43
22	a	6007	CLA	C3C-C4C-NC	4.06	115.64	110.43
25	B	1048	BCR	C30-C25-C24	4.06	126.67	115.65
22	B	1009	CLA	C3B-C4B-NB	4.06	114.16	110.53
22	D	1004	CLA	C3C-C4C-NC	4.06	115.64	110.43
25	T	6048	BCR	C30-C25-C24	4.06	126.67	115.65
22	C	1035	CLA	C1C-C2C-C3C	-4.06	102.71	106.98
22	B	1010	CLA	C3B-C4B-NB	4.06	114.16	110.53
22	c	6028	CLA	C1C-C2C-C3C	-4.06	102.71	106.98
22	B	1020	CLA	C3C-C4C-NC	4.06	115.63	110.43
22	b	6013	CLA	C3C-C4C-NC	4.06	115.63	110.43
22	b	6014	CLA	C3C-C4C-NC	4.06	115.63	110.43
22	B	1015	CLA	C3B-C4B-NB	4.06	114.16	110.53
25	a	6044	BCR	C15-C14-C13	-4.06	121.58	127.28
22	c	6033	CLA	C3C-C4C-NC	4.06	115.63	110.43
22	c	6028	CLA	C3C-C4C-NC	4.06	115.63	110.43
25	a	6044	BCR	C33-C5-C6	-4.06	120.05	124.48
22	C	1028	CLA	C1C-C2C-C3C	-4.06	102.71	106.98
22	a	6003	CLA	C1C-C2C-C3C	-4.06	102.71	106.98
22	c	6029	CLA	C3C-C4C-NC	4.06	115.63	110.43
22	C	1025	CLA	C3C-C4C-NC	4.06	115.63	110.43
22	D	1005	CLA	C3C-C4C-NC	4.06	115.63	110.43
22	B	1019	CLA	C3C-C4C-NC	4.06	115.63	110.43
22	d	6004	CLA	C3C-C4C-NC	4.06	115.63	110.43
22	A	1003	CLA	C1C-C2C-C3C	-4.06	102.71	106.98
22	C	1032	CLA	C1C-C2C-C3C	-4.06	102.71	106.98
22	C	1033	CLA	C3C-C4C-NC	4.06	115.63	110.43
25	A	1044	BCR	C30-C25-C24	4.06	126.65	115.65
22	a	6006	CLA	C3C-C4C-NC	4.06	115.62	110.43
22	b	6023	CLA	C3C-C4C-NC	4.05	115.62	110.43
25	a	6044	BCR	C30-C25-C24	4.05	126.65	115.65
22	c	6033	CLA	C3B-C4B-NB	4.05	114.15	110.53
28	d	6062	MGE	O2G-C1B-C2B	4.05	120.25	111.48
22	B	1021	CLA	C3C-C4C-NC	4.05	115.62	110.43
22	C	1035	CLA	C3B-C4B-NB	4.05	114.15	110.53
22	H	1017	CLA	C3B-C4B-NB	4.05	114.14	110.53
22	C	1036	CLA	C3C-C4C-NC	4.05	115.61	110.43
22	b	6016	CLA	C3B-C4B-NB	4.05	114.14	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	c	6056	DGD	O2G-C1B-C2B	4.05	120.24	111.48
22	c	6026	CLA	C3C-C4C-NC	4.05	115.61	110.43
22	C	1037	CLA	C1C-C2C-C3C	-4.05	102.72	106.98
22	b	6023	CLA	C1D-ND-C4D	-4.05	103.47	106.31
22	c	6027	CLA	C1D-ND-C4D	-4.04	103.47	106.31
22	A	1007	CLA	C3C-C4C-NC	4.04	115.61	110.43
22	b	6021	CLA	C3C-C4C-NC	4.04	115.61	110.43
22	b	6011	CLA	O2D-CGD-CBD	4.04	118.30	111.23
22	C	1028	CLA	C3C-C4C-NC	4.04	115.61	110.43
22	c	6032	CLA	C1C-C2C-C3C	-4.04	102.73	106.98
22	B	1013	CLA	C3B-C4B-NB	4.04	114.14	110.53
22	b	6013	CLA	C3B-C4B-NB	4.04	114.14	110.53
22	c	6037	CLA	C3C-C4C-NC	4.04	115.61	110.43
29	C	1056	DGD	O2G-C1B-C2B	4.04	120.22	111.48
22	h	6017	CLA	C1D-ND-C4D	-4.04	103.48	106.31
22	C	1032	CLA	C3B-C4B-NB	4.04	114.14	110.53
22	C	1037	CLA	C3C-C4C-NC	4.04	115.60	110.43
22	B	1012	CLA	C3C-C4C-NC	4.04	115.60	110.43
22	B	1011	CLA	C1C-C2C-C3C	-4.04	102.73	106.98
25	T	6048	BCR	C38-C26-C25	-4.04	120.08	124.48
22	A	1006	CLA	C3C-C4C-NC	4.04	115.60	110.43
22	C	1031	CLA	C3C-C4C-NC	4.04	115.60	110.43
22	C	1026	CLA	C3B-C4B-NB	4.04	114.13	110.53
28	D	1062	MGE	O2G-C1B-C2B	4.04	120.21	111.48
22	d	6004	CLA	C1C-C2C-C3C	-4.04	102.74	106.98
22	B	1011	CLA	O2D-CGD-CBD	4.04	118.28	111.23
22	B	1023	CLA	C3C-C4C-NC	4.03	115.60	110.43
22	c	6026	CLA	C3B-C4B-NB	4.03	114.13	110.53
22	b	6021	CLA	C1D-ND-C4D	-4.03	103.48	106.31
22	c	6025	CLA	C1D-ND-C4D	-4.03	103.48	106.31
22	C	1030	CLA	C3B-C4B-NB	4.03	114.13	110.53
22	c	6035	CLA	C3B-C4B-NB	4.03	114.13	110.53
29	c	6057	DGD	O2G-C1B-C2B	4.03	120.20	111.48
22	b	6016	CLA	C1D-ND-C4D	-4.03	103.48	106.31
22	a	6007	CLA	C3B-C4B-NB	4.03	114.13	110.53
22	B	1021	CLA	C3B-C4B-NB	4.03	114.13	110.53
22	D	1004	CLA	C3B-C4B-NB	4.03	114.13	110.53
29	C	1057	DGD	O2G-C1B-C2B	4.03	120.19	111.48
22	c	6037	CLA	C3B-C4B-NB	4.03	114.12	110.53
22	B	1018	CLA	C3C-C4C-NC	4.03	115.59	110.43
22	b	6012	CLA	C3C-C4C-NC	4.02	115.58	110.43
22	B	1016	CLA	C3B-C4B-NB	4.02	114.12	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	l	6061	MGE	O2G-C1B-C2B	4.02	120.18	111.48
26	a	6063	LHG	O7-C7-C8	4.02	120.18	111.48
28	b	6060	MGE	O2G-C1B-C2B	4.02	120.18	111.48
22	A	1007	CLA	C3B-C4B-NB	4.02	114.12	110.53
22	b	6018	CLA	C3B-C4B-NB	4.02	114.12	110.53
28	B	1060	MGE	O2G-C1B-C2B	4.02	120.17	111.48
22	C	1033	CLA	C1D-ND-C4D	-4.02	103.49	106.31
22	c	6027	CLA	C3B-C4B-NB	4.02	114.11	110.53
22	b	6024	CLA	C3C-C4C-NC	4.02	115.57	110.43
22	b	6021	CLA	C3B-C4B-NB	4.01	114.11	110.53
22	D	1008	CLA	C3C-C4C-NC	4.01	115.57	110.43
22	C	1037	CLA	C3B-C4B-NB	4.01	114.11	110.53
22	b	6019	CLA	C3B-C4B-NB	4.01	114.11	110.53
22	a	6007	CLA	C1D-ND-C4D	-4.01	103.50	106.31
28	L	1061	MGE	O2G-C1B-C2B	4.01	120.16	111.48
22	A	1003	CLA	C3B-C4B-NB	4.01	114.11	110.53
22	C	1031	CLA	C3B-C4B-NB	4.01	114.11	110.53
22	k	6034	CLA	C1D-ND-C4D	-4.01	103.50	106.31
22	B	1018	CLA	C3B-C4B-NB	4.01	114.11	110.53
22	h	6017	CLA	C3B-C4B-NB	4.01	114.11	110.53
22	b	6012	CLA	C3B-C4B-NB	4.01	114.11	110.53
22	d	6008	CLA	C3C-C4C-NC	4.01	115.57	110.43
22	B	1018	CLA	C1D-ND-C4D	-4.01	103.50	106.31
22	B	1021	CLA	C1D-ND-C4D	-4.01	103.50	106.31
22	c	6037	CLA	C1C-C2C-C3C	-4.01	102.77	106.98
29	C	1055	DGD	O2G-C1B-C2B	4.01	120.15	111.48
22	B	1019	CLA	C3B-C4B-NB	4.01	114.11	110.53
26	A	1063	LHG	O7-C7-C8	4.00	120.14	111.48
29	B	1058	DGD	O2G-C1B-C2B	4.00	120.14	111.48
22	C	1036	CLA	C3B-C4B-NB	4.00	114.11	110.53
22	a	6006	CLA	C3B-C4B-NB	4.00	114.11	110.53
29	c	6055	DGD	O2G-C1B-C2B	4.00	120.14	111.48
22	c	6031	CLA	C3C-C4C-NC	4.00	115.55	110.43
22	b	6011	CLA	C1C-C2C-C3C	-4.00	102.78	106.98
22	B	1012	CLA	C3B-C4B-NB	4.00	114.10	110.53
22	c	6028	CLA	C3B-C4B-NB	4.00	114.10	110.53
22	c	6030	CLA	C3B-C4B-NB	4.00	114.10	110.53
29	b	6058	DGD	O2G-C1B-C2B	3.99	120.12	111.48
22	C	1033	CLA	C3B-C4B-NB	3.99	114.10	110.53
22	b	6023	CLA	C3B-C4B-NB	3.99	114.10	110.53
22	b	6018	CLA	C3C-C4C-NC	3.99	115.55	110.43
22	C	1027	CLA	C3B-C4B-NB	3.99	114.09	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	a	6003	CLA	C3B-C4B-NB	3.99	114.09	110.53
22	c	6032	CLA	C3B-C4B-NB	3.99	114.09	110.53
22	B	1020	CLA	C1D-ND-C4D	-3.99	103.51	106.31
22	C	1025	CLA	C1D-ND-C4D	-3.99	103.51	106.31
22	b	6018	CLA	C1D-ND-C4D	-3.99	103.51	106.31
22	B	1014	CLA	C3B-C4B-NB	3.99	114.09	110.53
22	B	1022	CLA	C3B-C4B-NB	3.99	114.09	110.53
22	C	1028	CLA	C3B-C4B-NB	3.99	114.09	110.53
22	b	6014	CLA	C3B-C4B-NB	3.99	114.09	110.53
22	k	6034	CLA	C3B-C4B-NB	3.99	114.09	110.53
22	B	1015	CLA	C1D-ND-C4D	-3.99	103.51	106.31
22	H	1017	CLA	C1D-ND-C4D	-3.99	103.51	106.31
22	B	1014	CLA	C1D-ND-C4D	-3.99	103.52	106.31
22	c	6030	CLA	C1D-ND-C4D	-3.99	103.52	106.31
22	c	6031	CLA	C3B-C4B-NB	3.99	114.09	110.53
28	D	1059	MGE	O2G-C1B-C2B	3.99	120.10	111.48
22	b	6022	CLA	C1D-ND-C4D	-3.98	103.52	106.31
22	B	1022	CLA	C1D-ND-C4D	-3.98	103.52	106.31
22	b	6014	CLA	C1D-ND-C4D	-3.98	103.52	106.31
22	B	1023	CLA	C3B-C4B-NB	3.98	114.09	110.53
22	b	6012	CLA	C1D-ND-C4D	-3.98	103.52	106.31
22	d	6004	CLA	C3B-C4B-NB	3.98	114.08	110.53
22	a	6006	CLA	C1D-ND-C4D	-3.98	103.52	106.31
22	c	6026	CLA	C1D-ND-C4D	-3.98	103.52	106.31
22	b	6024	CLA	C3B-C4B-NB	3.98	114.08	110.53
22	c	6029	CLA	C3B-C4B-NB	3.98	114.08	110.53
22	c	6036	CLA	C1D-ND-C4D	-3.98	103.52	106.31
22	b	6015	CLA	C1D-ND-C4D	-3.97	103.52	106.31
22	b	6011	CLA	CHD-C4C-C3C	-3.97	118.98	124.77
22	C	1027	CLA	C1D-ND-C4D	-3.97	103.52	106.31
28	d	6059	MGE	O2G-C1B-C2B	3.97	120.08	111.48
22	C	1025	CLA	C3B-C4B-NB	3.97	114.08	110.53
22	K	1034	CLA	C3B-C4B-NB	3.97	114.07	110.53
22	B	1011	CLA	CHD-C4C-C3C	-3.97	118.99	124.77
22	D	1005	CLA	C3B-C4B-NB	3.97	114.07	110.53
22	A	1006	CLA	C3B-C4B-NB	3.97	114.07	110.53
22	c	6025	CLA	C3B-C4B-NB	3.97	114.07	110.53
22	A	1007	CLA	C1D-ND-C4D	-3.96	103.53	106.31
22	B	1024	CLA	C3B-C4B-NB	3.96	114.07	110.53
22	C	1035	CLA	C1D-ND-C4D	-3.96	103.53	106.31
22	K	1034	CLA	C1D-ND-C4D	-3.96	103.53	106.31
22	d	6005	CLA	C3B-C4B-NB	3.96	114.07	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	d	6005	CLA	C1D-ND-C4D	-3.96	103.53	106.31
22	A	1006	CLA	C1D-ND-C4D	-3.96	103.53	106.31
22	C	1029	CLA	C3B-C4B-NB	3.96	114.06	110.53
22	A	1003	CLA	C1D-ND-C4D	-3.96	103.54	106.31
25	T	6046	BCR	C7-C8-C9	3.96	132.09	126.23
22	C	1030	CLA	C1D-ND-C4D	-3.95	103.54	106.31
22	D	1005	CLA	C1D-ND-C4D	-3.95	103.54	106.31
22	D	1004	CLA	C1D-ND-C4D	-3.95	103.54	106.31
22	C	1026	CLA	C1D-ND-C4D	-3.95	103.54	106.31
22	B	1012	CLA	C1D-ND-C4D	-3.95	103.54	106.31
22	b	6011	CLA	C3B-C4B-NB	3.95	114.05	110.53
22	C	1036	CLA	C1D-ND-C4D	-3.94	103.55	106.31
22	C	1037	CLA	C1D-ND-C4D	-3.94	103.55	106.31
22	b	6022	CLA	C3B-C4B-NB	3.94	114.05	110.53
25	t	1046	BCR	C7-C8-C9	3.94	132.06	126.23
22	c	6032	CLA	C1D-ND-C4D	-3.93	103.55	106.31
22	c	6035	CLA	C1D-ND-C4D	-3.93	103.55	106.31
22	B	1016	CLA	C1D-ND-C4D	-3.93	103.56	106.31
22	c	6029	CLA	C1D-ND-C4D	-3.93	103.56	106.31
22	c	6028	CLA	C1D-ND-C4D	-3.93	103.56	106.31
22	C	1031	CLA	C1D-ND-C4D	-3.92	103.56	106.31
22	B	1011	CLA	C3B-C4B-NB	3.92	114.03	110.53
22	b	6022	CLA	C3D-C4D-ND	3.92	116.36	109.99
22	a	6006	CLA	C3D-C4D-ND	3.92	116.36	109.99
22	C	1028	CLA	C1D-ND-C4D	-3.92	103.56	106.31
22	B	1023	CLA	C3D-C4D-ND	3.92	116.36	109.99
22	C	1032	CLA	C1D-ND-C4D	-3.92	103.56	106.31
22	c	6033	CLA	C1D-ND-C4D	-3.92	103.56	106.31
22	B	1013	CLA	C1D-ND-C4D	-3.91	103.57	106.31
22	d	6004	CLA	C1D-ND-C4D	-3.91	103.57	106.31
22	B	1024	CLA	C1D-ND-C4D	-3.91	103.57	106.31
22	B	1022	CLA	C3D-C4D-ND	3.91	116.34	109.99
22	b	6023	CLA	C3D-C4D-ND	3.90	116.33	109.99
22	B	1010	CLA	C1D-ND-C4D	-3.90	103.57	106.31
22	c	6037	CLA	C1D-ND-C4D	-3.90	103.57	106.31
22	h	6017	CLA	C3D-C4D-ND	3.90	116.33	109.99
22	C	1029	CLA	C1D-ND-C4D	-3.90	103.57	106.31
22	C	1033	CLA	C3D-C4D-ND	3.90	116.33	109.99
22	k	6034	CLA	C3D-C4D-ND	3.90	116.33	109.99
22	b	6019	CLA	C1D-ND-C4D	-3.90	103.58	106.31
22	b	6016	CLA	C3D-C4D-ND	3.90	116.33	109.99
22	a	6003	CLA	C1D-ND-C4D	-3.90	103.58	106.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	c	6031	CLA	C1D-ND-C4D	-3.90	103.58	106.31
25	C	1052	BCR	C38-C26-C27	3.90	121.91	113.60
22	B	1019	CLA	C1D-ND-C4D	-3.90	103.58	106.31
22	H	1017	CLA	C3D-C4D-ND	3.89	116.31	109.99
22	b	6023	CLA	CHD-C4C-C3C	-3.89	119.10	124.77
22	B	1015	CLA	C3D-C4D-ND	3.89	116.31	109.99
22	b	6010	CLA	C1D-ND-C4D	-3.89	103.58	106.31
22	b	6021	CLA	C3D-C4D-ND	3.89	116.31	109.99
22	c	6030	CLA	O2D-CGD-CBD	3.89	118.03	111.23
22	B	1013	CLA	C3D-C4D-ND	3.89	116.30	109.99
22	C	1037	CLA	C3D-C4D-ND	3.89	116.30	109.99
22	b	6015	CLA	C3D-C4D-ND	3.89	116.30	109.99
25	k	6052	BCR	C38-C26-C27	3.89	121.88	113.60
22	c	6026	CLA	C3D-C4D-ND	3.88	116.30	109.99
22	b	6013	CLA	C1D-ND-C4D	-3.88	103.59	106.31
22	C	1026	CLA	C3D-C4D-ND	3.88	116.30	109.99
22	B	1018	CLA	C3D-C4D-ND	3.88	116.30	109.99
22	A	1006	CLA	C3D-C4D-ND	3.88	116.30	109.99
22	d	6005	CLA	C3D-C4D-ND	3.88	116.30	109.99
22	c	6025	CLA	C3D-C4D-ND	3.88	116.29	109.99
22	B	1021	CLA	CHD-C4C-C3C	-3.88	119.12	124.77
22	b	6014	CLA	C3D-C4D-ND	3.88	116.29	109.99
22	D	1005	CLA	C3D-C4D-ND	3.88	116.29	109.99
22	a	6007	CLA	C3D-C4D-ND	3.88	116.29	109.99
22	B	1021	CLA	C3D-C4D-ND	3.88	116.29	109.99
22	C	1025	CLA	C3D-C4D-ND	3.88	116.29	109.99
22	b	6018	CLA	C3D-C4D-ND	3.88	116.29	109.99
22	b	6012	CLA	C3D-C4D-ND	3.87	116.28	109.99
22	c	6035	CLA	C3D-C4D-ND	3.87	116.28	109.99
22	C	1036	CLA	C3D-C4D-ND	3.87	116.28	109.99
22	c	6036	CLA	C3D-C4D-ND	3.87	116.28	109.99
22	b	6021	CLA	CHD-C4C-C3C	-3.87	119.13	124.77
22	D	1004	CLA	C3D-C4D-ND	3.87	116.28	109.99
22	b	6013	CLA	C3D-C4D-ND	3.87	116.28	109.99
22	c	6037	CLA	C3D-C4D-ND	3.87	116.28	109.99
22	C	1035	CLA	C3D-C4D-ND	3.87	116.28	109.99
22	B	1023	CLA	CHD-C4C-C3C	-3.87	119.13	124.77
22	C	1030	CLA	O2D-CGD-CBD	3.87	117.99	111.23
22	b	6020	CLA	C3D-C4D-ND	3.87	116.27	109.99
22	B	1016	CLA	C3D-C4D-ND	3.87	116.27	109.99
22	K	1034	CLA	C3D-C4D-ND	3.87	116.27	109.99
22	C	1029	CLA	CHD-C4C-C3C	-3.86	119.14	124.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	c	6032	CLA	C3D-C4D-ND	3.86	116.27	109.99
22	B	1009	CLA	CHD-C4C-C3C	-3.86	119.14	124.77
22	A	1003	CLA	C3D-C4D-ND	3.86	116.27	109.99
22	B	1020	CLA	C3D-C4D-ND	3.86	116.27	109.99
22	C	1028	CLA	C3D-C4D-ND	3.86	116.26	109.99
22	B	1014	CLA	C3D-C4D-ND	3.86	116.26	109.99
22	c	6028	CLA	C3D-C4D-ND	3.86	116.26	109.99
22	B	1013	CLA	CHD-C4C-C3C	-3.86	119.15	124.77
22	c	6027	CLA	C3D-C4D-ND	3.86	116.26	109.99
22	b	6019	CLA	C3D-C4D-ND	3.86	116.25	109.99
22	B	1012	CLA	C3D-C4D-ND	3.85	116.25	109.99
22	b	6016	CLA	CHD-C4C-C3C	-3.85	119.15	124.77
22	c	6033	CLA	C3D-C4D-ND	3.85	116.25	109.99
22	b	6009	CLA	CHD-C4C-C3C	-3.85	119.15	124.77
22	A	1007	CLA	C3D-C4D-ND	3.85	116.25	109.99
22	b	6024	CLA	C1D-ND-C4D	-3.85	103.61	106.31
22	B	1024	CLA	C3D-C4D-ND	3.85	116.25	109.99
22	C	1032	CLA	C3D-C4D-ND	3.85	116.25	109.99
22	C	1037	CLA	CHD-C4C-C3C	-3.85	119.16	124.77
22	B	1019	CLA	C3D-C4D-ND	3.85	116.25	109.99
22	C	1027	CLA	C3D-C4D-ND	3.85	116.25	109.99
22	b	6020	CLA	CHD-C4C-C3C	-3.85	119.16	124.77
22	C	1031	CLA	C3D-C4D-ND	3.85	116.24	109.99
22	C	1031	CLA	CHD-C4C-C3C	-3.85	119.17	124.77
25	t	1046	BCR	C1-C6-C5	-3.85	117.38	122.64
22	b	6022	CLA	CHD-C4C-C3C	-3.85	119.17	124.77
22	b	6015	CLA	CHD-C4C-C3C	-3.85	119.17	124.77
22	c	6032	CLA	CHD-C4C-C3C	-3.84	119.17	124.77
22	d	6005	CLA	CHD-C4C-C3C	-3.84	119.17	124.77
22	d	6004	CLA	C3D-C4D-ND	3.84	116.23	109.99
22	b	6011	CLA	C1D-ND-C4D	-3.84	103.62	106.31
22	B	1014	CLA	CHD-C4C-C3C	-3.84	119.17	124.77
22	C	1027	CLA	CHD-C4C-C3C	-3.84	119.17	124.77
22	c	6029	CLA	CHD-C4C-C3C	-3.84	119.17	124.77
22	b	6013	CLA	CHD-C4C-C3C	-3.84	119.17	124.77
22	C	1032	CLA	CHD-C4C-C3C	-3.84	119.18	124.77
22	B	1022	CLA	CHD-C4C-C3C	-3.84	119.18	124.77
22	c	6025	CLA	CHD-C4C-C3C	-3.84	119.18	124.77
22	c	6031	CLA	CHD-C4C-C3C	-3.84	119.18	124.77
22	c	6029	CLA	C3D-C4D-ND	3.84	116.23	109.99
22	b	6014	CLA	CHD-C4C-C3C	-3.84	119.18	124.77
22	B	1024	CLA	CHD-C4C-C3C	-3.84	119.18	124.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	B	1016	CLA	CHD-C4C-C3C	-3.83	119.18	124.77
22	a	6003	CLA	C3D-C4D-ND	3.83	116.22	109.99
22	c	6035	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
22	b	6010	CLA	C3D-C4D-ND	3.83	116.22	109.99
22	d	6008	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
22	C	1028	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
22	B	1020	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
22	D	1004	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
22	c	6037	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
22	b	6018	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
22	A	1003	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
22	a	6007	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
22	B	1018	CLA	CHD-C4C-C3C	-3.83	119.19	124.77
22	b	6024	CLA	C3D-C4D-ND	3.82	116.20	109.99
22	a	6003	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
22	b	6010	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
22	h	6017	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
22	c	6031	CLA	C3D-C4D-ND	3.82	116.20	109.99
22	H	1017	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
22	K	1034	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
22	C	1029	CLA	C3D-C4D-ND	3.82	116.20	109.99
22	A	1007	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
22	B	1010	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
22	D	1005	CLA	CHD-C4C-C3C	-3.82	119.20	124.77
22	C	1025	CLA	CHD-C4C-C3C	-3.82	119.21	124.77
22	B	1010	CLA	C3D-C4D-ND	3.82	116.19	109.99
22	c	6027	CLA	CHD-C4C-C3C	-3.82	119.21	124.77
22	c	6028	CLA	CHD-C4C-C3C	-3.81	119.21	124.77
22	B	1015	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
22	C	1035	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
22	k	6034	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
22	a	6006	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
22	c	6030	CLA	C3D-C4D-ND	3.81	116.18	109.99
22	d	6004	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
22	C	1036	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
25	T	6046	BCR	C1-C6-C5	-3.81	117.43	122.64
22	C	1026	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
22	C	1033	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
22	B	1012	CLA	CHD-C4C-C3C	-3.81	119.22	124.77
22	A	1006	CLA	CHD-C4C-C3C	-3.80	119.23	124.77
22	C	1030	CLA	C3D-C4D-ND	3.80	116.17	109.99
22	b	6009	CLA	C1D-ND-C4D	-3.80	103.65	106.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	D	1008	CLA	C3D-C4D-ND	3.80	116.16	109.99
22	D	1008	CLA	CHD-C4C-C3C	-3.80	119.24	124.77
22	b	6024	CLA	CHD-C4C-C3C	-3.80	119.24	124.77
22	c	6026	CLA	CHD-C4C-C3C	-3.79	119.24	124.77
22	c	6036	CLA	CHD-C4C-C3C	-3.79	119.24	124.77
22	d	6008	CLA	C1D-ND-C4D	-3.79	103.65	106.31
22	b	6019	CLA	CHD-C4C-C3C	-3.79	119.25	124.77
22	d	6008	CLA	C3D-C4D-ND	3.79	116.15	109.99
22	c	6033	CLA	CHD-C4C-C3C	-3.78	119.26	124.77
22	b	6012	CLA	CHD-C4C-C3C	-3.78	119.26	124.77
22	B	1011	CLA	C1D-ND-C4D	-3.78	103.66	106.31
22	B	1019	CLA	CHD-C4C-C3C	-3.78	119.27	124.77
25	a	6044	BCR	C38-C26-C25	-3.76	120.38	124.48
22	B	1009	CLA	C1D-ND-C4D	-3.76	103.67	106.31
22	b	6011	CLA	C3D-C4D-ND	3.76	116.10	109.99
22	D	1008	CLA	C1D-ND-C4D	-3.76	103.68	106.31
22	b	6009	CLA	C3D-C4D-ND	3.75	116.08	109.99
22	B	1009	CLA	C3D-C4D-ND	3.74	116.07	109.99
22	B	1011	CLA	C3D-C4D-ND	3.74	116.07	109.99
25	A	1044	BCR	C38-C26-C25	-3.74	120.41	124.48
22	D	1008	CLA	O2D-CGD-CBD	3.70	117.69	111.23
24	a	6043	PQ9	C11-C12-C13	-3.69	120.47	126.83
22	d	6008	CLA	O2D-CGD-CBD	3.68	117.67	111.23
24	A	1043	PQ9	C11-C12-C13	-3.68	120.48	126.83
24	d	6042	PQ9	C11-C12-C13	-3.67	120.50	126.83
24	D	1042	PQ9	C11-C12-C13	-3.67	120.51	126.83
23	D	1039	PHO	OBD-CAD-CBD	-3.64	120.47	125.82
25	a	6044	BCR	C37-C22-C23	3.63	123.63	118.09
25	A	1044	BCR	C37-C22-C23	3.63	123.63	118.09
23	d	6039	PHO	OBD-CAD-CBD	-3.62	120.51	125.82
23	a	6038	PHO	OBD-CAD-CBD	-3.62	120.52	125.82
23	A	1038	PHO	OBD-CAD-CBD	-3.60	120.54	125.82
25	T	6046	BCR	C38-C26-C25	-3.57	120.59	124.48
25	t	1046	BCR	C38-C26-C25	-3.57	120.59	124.48
22	b	6023	CLA	C2A-C1A-CHA	-3.55	117.70	123.87
22	B	1023	CLA	C2A-C1A-CHA	-3.55	117.71	123.87
22	b	6022	CLA	C2A-C1A-CHA	-3.54	117.72	123.87
22	d	6008	CLA	C2A-C1A-CHA	-3.54	117.72	123.87
22	b	6014	CLA	C2A-C1A-CHA	-3.54	117.73	123.87
22	b	6016	CLA	C2A-C1A-CHA	-3.54	117.73	123.87
22	B	1014	CLA	C2A-C1A-CHA	-3.53	117.73	123.87
22	c	6025	CLA	C2A-C1A-CHA	-3.53	117.73	123.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	D	1008	CLA	C2A-C1A-CHA	-3.53	117.74	123.87
22	C	1037	CLA	C2A-C1A-CHA	-3.53	117.74	123.87
22	c	6037	CLA	C2A-C1A-CHA	-3.53	117.74	123.87
22	a	6006	CLA	C2A-C1A-CHA	-3.53	117.75	123.87
22	C	1025	CLA	C2A-C1A-CHA	-3.52	117.75	123.87
22	b	6013	CLA	C2A-C1A-CHA	-3.52	117.75	123.87
22	c	6035	CLA	C2A-C1A-CHA	-3.52	117.75	123.87
22	b	6022	CLA	C1-C2-C3	-3.52	120.43	126.20
22	k	6034	CLA	C2A-C1A-CHA	-3.52	117.76	123.87
22	c	6028	CLA	C1-C2-C3	-3.52	120.43	126.20
22	c	6033	CLA	C2A-C1A-CHA	-3.52	117.76	123.87
22	a	6003	CLA	C1-C2-C3	-3.52	120.43	126.20
22	d	6005	CLA	C2A-C1A-CHA	-3.52	117.76	123.87
22	D	1005	CLA	C2A-C1A-CHA	-3.52	117.76	123.87
22	A	1006	CLA	C2A-C1A-CHA	-3.52	117.76	123.87
22	B	1022	CLA	C2A-C1A-CHA	-3.52	117.77	123.87
22	C	1033	CLA	C2A-C1A-CHA	-3.51	117.77	123.87
22	a	6007	CLA	C2A-C1A-CHA	-3.51	117.77	123.87
22	b	6019	CLA	C2A-C1A-CHA	-3.51	117.77	123.87
22	c	6037	CLA	C1-C2-C3	-3.51	120.44	126.20
22	B	1019	CLA	C2A-C1A-CHA	-3.51	117.78	123.87
22	B	1009	CLA	C1-C2-C3	-3.51	120.45	126.20
22	H	1017	CLA	C2A-C1A-CHA	-3.51	117.78	123.87
22	A	1003	CLA	C2A-C1A-CHA	-3.51	117.78	123.87
22	B	1015	CLA	C2A-C1A-CHA	-3.51	117.78	123.87
22	B	1021	CLA	C2A-C1A-CHA	-3.51	117.78	123.87
22	C	1031	CLA	C2A-C1A-CHA	-3.51	117.78	123.87
22	b	6015	CLA	C2A-C1A-CHA	-3.51	117.78	123.87
22	c	6032	CLA	C1-C2-C3	-3.51	120.45	126.20
22	B	1013	CLA	C2A-C1A-CHA	-3.51	117.78	123.87
22	b	6009	CLA	C1-C2-C3	-3.50	120.45	126.20
22	d	6004	CLA	C1-C2-C3	-3.50	120.46	126.20
22	A	1007	CLA	C2A-C1A-CHA	-3.50	117.79	123.87
22	D	1004	CLA	C2A-C1A-CHA	-3.50	117.79	123.87
22	C	1027	CLA	C2A-C1A-CHA	-3.50	117.79	123.87
22	C	1036	CLA	C2A-C1A-CHA	-3.50	117.79	123.87
22	K	1034	CLA	C2A-C1A-CHA	-3.50	117.79	123.87
22	B	1022	CLA	C1-C2-C3	-3.50	120.46	126.20
22	c	6027	CLA	C1-C2-C3	-3.50	120.46	126.20
22	c	6036	CLA	C2A-C1A-CHA	-3.50	117.79	123.87
22	C	1028	CLA	C2A-C1A-CHA	-3.50	117.80	123.87
22	C	1028	CLA	C1-C2-C3	-3.50	120.47	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	d	6004	CLA	C2A-C1A-CHA	-3.50	117.80	123.87
22	C	1033	CLA	C1-C2-C3	-3.50	120.47	126.20
22	C	1035	CLA	C2A-C1A-CHA	-3.50	117.80	123.87
22	B	1016	CLA	C2A-C1A-CHA	-3.50	117.80	123.87
22	B	1020	CLA	C2A-C1A-CHA	-3.50	117.80	123.87
22	C	1032	CLA	C1-C2-C3	-3.49	120.47	126.20
22	B	1012	CLA	C2A-C1A-CHA	-3.49	117.80	123.87
22	c	6031	CLA	C1-C2-C3	-3.49	120.47	126.20
22	c	6027	CLA	C2A-C1A-CHA	-3.49	117.80	123.87
22	c	6032	CLA	C2A-C1A-CHA	-3.49	117.80	123.87
22	B	1018	CLA	C2A-C1A-CHA	-3.49	117.80	123.87
22	B	1024	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
22	C	1032	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
22	b	6024	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
22	c	6031	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
22	A	1003	CLA	C1-C2-C3	-3.49	120.48	126.20
22	b	6021	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
22	b	6024	CLA	C1-C2-C3	-3.49	120.48	126.20
22	c	6028	CLA	C2A-C1A-CHA	-3.49	117.81	123.87
22	B	1016	CLA	C1-C2-C3	-3.49	120.48	126.20
22	c	6035	CLA	C1-C2-C3	-3.49	120.48	126.20
22	D	1005	CLA	C1-C2-C3	-3.49	120.48	126.20
22	b	6012	CLA	C2A-C1A-CHA	-3.49	117.82	123.87
22	h	6017	CLA	C2A-C1A-CHA	-3.49	117.82	123.87
22	B	1014	CLA	C1-C2-C3	-3.49	120.49	126.20
22	C	1036	CLA	C1-C2-C3	-3.49	120.49	126.20
22	C	1037	CLA	C1-C2-C3	-3.49	120.49	126.20
22	b	6014	CLA	C1-C2-C3	-3.48	120.49	126.20
22	b	6015	CLA	C1-C2-C3	-3.48	120.49	126.20
22	a	6003	CLA	C2A-C1A-CHA	-3.48	117.82	123.87
22	C	1031	CLA	C1-C2-C3	-3.48	120.49	126.20
22	H	1017	CLA	C1-C2-C3	-3.48	120.49	126.20
22	K	1034	CLA	C1-C2-C3	-3.48	120.49	126.20
22	C	1026	CLA	C2A-C1A-CHA	-3.48	117.82	123.87
22	c	6026	CLA	C1-C2-C3	-3.48	120.49	126.20
22	A	1006	CLA	C1-C2-C3	-3.48	120.49	126.20
22	C	1035	CLA	C1-C2-C3	-3.48	120.49	126.20
22	a	6006	CLA	C1-C2-C3	-3.48	120.49	126.20
22	a	6007	CLA	C1-C2-C3	-3.48	120.49	126.20
22	d	6005	CLA	C1-C2-C3	-3.48	120.49	126.20
22	B	1019	CLA	C1-C2-C3	-3.48	120.49	126.20
23	D	1039	PHO	C1-C2-C3	-3.48	120.49	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	A	1007	CLA	C1-C2-C3	-3.48	120.50	126.20
22	C	1026	CLA	C1-C2-C3	-3.48	120.50	126.20
22	B	1012	CLA	C1-C2-C3	-3.48	120.50	126.20
22	h	6017	CLA	C1-C2-C3	-3.48	120.50	126.20
22	k	6034	CLA	C1-C2-C3	-3.48	120.50	126.20
22	B	1015	CLA	C1-C2-C3	-3.48	120.50	126.20
22	b	6018	CLA	C2A-C1A-CHA	-3.47	117.84	123.87
22	C	1027	CLA	C1-C2-C3	-3.47	120.50	126.20
22	b	6018	CLA	C1-C2-C3	-3.47	120.50	126.20
22	c	6036	CLA	C1-C2-C3	-3.47	120.51	126.20
22	b	6016	CLA	C1-C2-C3	-3.47	120.51	126.20
22	B	1013	CLA	C1-C2-C3	-3.47	120.51	126.20
22	c	6033	CLA	C1-C2-C3	-3.47	120.51	126.20
22	D	1004	CLA	C1-C2-C3	-3.47	120.51	126.20
22	c	6025	CLA	C1-C2-C3	-3.47	120.51	126.20
22	B	1020	CLA	C1-C2-C3	-3.47	120.51	126.20
22	B	1018	CLA	C1-C2-C3	-3.47	120.51	126.20
22	b	6020	CLA	C2A-C1A-CHA	-3.47	117.85	123.87
22	b	6012	CLA	C1-C2-C3	-3.47	120.52	126.20
22	c	6030	CLA	C2A-C1A-CHA	-3.47	117.85	123.87
22	B	1024	CLA	C1-C2-C3	-3.47	120.52	126.20
22	b	6019	CLA	C1-C2-C3	-3.47	120.52	126.20
23	A	1038	PHO	C1-C2-C3	-3.47	120.52	126.20
22	b	6010	CLA	C2A-C1A-CHA	-3.47	117.85	123.87
22	C	1025	CLA	C1-C2-C3	-3.46	120.52	126.20
23	d	6039	PHO	C1-C2-C3	-3.46	120.52	126.20
22	c	6026	CLA	C2A-C1A-CHA	-3.46	117.86	123.87
22	B	1010	CLA	C2A-C1A-CHA	-3.46	117.86	123.87
23	a	6038	PHO	C1-C2-C3	-3.46	120.53	126.20
22	b	6013	CLA	C1-C2-C3	-3.46	120.54	126.20
22	B	1011	CLA	C2A-C1A-CHA	-3.45	117.87	123.87
22	b	6011	CLA	C2A-C1A-CHA	-3.45	117.88	123.87
22	C	1030	CLA	C2A-C1A-CHA	-3.44	117.89	123.87
22	b	6020	CLA	C1-C2-C3	-3.44	120.56	126.20
22	c	6029	CLA	C2A-C1A-CHA	-3.44	117.90	123.87
22	C	1029	CLA	C2A-C1A-CHA	-3.43	117.91	123.87
22	b	6010	CLA	C1-C2-C3	-3.40	120.63	126.20
22	B	1009	CLA	C2A-C1A-CHA	-3.39	117.98	123.87
22	b	6009	CLA	C2A-C1A-CHA	-3.39	117.98	123.87
25	t	1046	BCR	C33-C5-C6	-3.38	120.79	124.48
25	T	6046	BCR	C33-C5-C4	3.37	120.79	113.60
22	B	1010	CLA	C1-C2-C3	-3.37	120.67	126.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	T	6046	BCR	C33-C5-C6	-3.36	120.82	124.48
22	D	1008	CLA	C1-C2-C3	-3.36	120.70	126.20
25	t	1046	BCR	C33-C5-C4	3.36	120.75	113.60
22	c	6029	CLA	C1-C2-C3	-3.35	120.71	126.20
22	C	1029	CLA	C1-C2-C3	-3.33	120.73	126.20
24	d	6042	PQ9	C11-C2-C1	3.33	119.66	116.91
22	d	6008	CLA	C1-C2-C3	-3.33	120.74	126.20
25	k	6052	BCR	C37-C22-C23	3.32	123.16	118.09
25	C	1052	BCR	C37-C22-C23	3.30	123.13	118.09
22	b	6021	CLA	C1-C2-C3	-3.29	120.81	126.20
24	D	1042	PQ9	C11-C2-C1	3.28	119.61	116.91
24	a	6043	PQ9	C11-C2-C1	3.28	119.61	116.91
24	A	1043	PQ9	C11-C2-C1	3.28	119.61	116.91
22	B	1021	CLA	C1-C2-C3	-3.28	120.83	126.20
22	B	1023	CLA	C1-C2-C3	-3.27	120.83	126.20
22	b	6023	CLA	C1-C2-C3	-3.26	120.86	126.20
22	B	1011	CLA	O2D-CGD-O1D	-3.26	117.50	123.85
22	b	6011	CLA	O2D-CGD-O1D	-3.26	117.50	123.85
24	d	6042	PQ9	C11-C2-C3	-3.21	119.61	123.39
24	a	6043	PQ9	C11-C2-C3	-3.20	119.61	123.39
24	A	1043	PQ9	C11-C2-C3	-3.19	119.62	123.39
25	T	6046	BCR	C4-C5-C6	-3.19	118.39	122.70
22	c	6030	CLA	C1-C2-C3	-3.19	120.97	126.20
24	D	1042	PQ9	C11-C2-C3	-3.19	119.63	123.39
22	C	1030	CLA	C1-C2-C3	-3.18	120.99	126.20
22	D	1008	CLA	CAC-C3C-C4C	3.17	128.92	124.79
22	d	6008	CLA	CAC-C3C-C4C	3.16	128.90	124.79
25	t	1046	BCR	C4-C5-C6	-3.15	118.45	122.70
25	B	1047	BCR	C37-C22-C21	-3.14	117.72	122.82
24	d	6042	PQ9	C26-C27-C28	-3.14	120.44	127.62
24	d	6042	PQ9	C16-C17-C18	-3.13	120.45	127.62
24	d	6042	PQ9	C31-C32-C33	-3.13	120.46	127.62
22	d	6008	CLA	O2D-CGD-O1D	-3.13	117.75	123.85
25	b	6047	BCR	C37-C22-C21	-3.13	117.75	122.82
22	b	6010	CLA	CMB-C2B-C1B	3.13	130.18	125.42
24	D	1042	PQ9	C31-C32-C33	-3.13	120.47	127.62
24	d	6042	PQ9	C36-C37-C38	-3.13	120.47	127.62
22	D	1008	CLA	O2D-CGD-O1D	-3.13	117.76	123.85
24	D	1042	PQ9	C26-C27-C28	-3.12	120.47	127.62
24	d	6042	PQ9	C21-C22-C23	-3.12	120.48	127.62
24	D	1042	PQ9	C16-C17-C18	-3.12	120.49	127.62
24	a	6043	PQ9	C21-C22-C23	-3.12	120.49	127.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	A	1043	PQ9	C31-C32-C33	-3.12	120.49	127.62
24	D	1042	PQ9	C21-C22-C23	-3.11	120.50	127.62
25	B	1048	BCR	C37-C22-C21	-3.11	117.77	122.82
24	a	6043	PQ9	C31-C32-C33	-3.11	120.50	127.62
22	B	1010	CLA	CMB-C2B-C1B	3.11	130.16	125.42
24	A	1043	PQ9	C21-C22-C23	-3.11	120.50	127.62
24	D	1042	PQ9	C36-C37-C38	-3.11	120.50	127.62
25	T	6048	BCR	C37-C22-C21	-3.11	117.78	122.82
24	A	1043	PQ9	C26-C27-C28	-3.11	120.52	127.62
24	a	6043	PQ9	C26-C27-C28	-3.10	120.53	127.62
24	a	6043	PQ9	C16-C17-C18	-3.10	120.53	127.62
24	A	1043	PQ9	C16-C17-C18	-3.09	120.54	127.62
22	b	6011	CLA	C1-C2-C3	-3.09	121.13	126.20
24	a	6043	PQ9	C36-C37-C38	-3.09	120.55	127.62
24	A	1043	PQ9	C36-C37-C38	-3.09	120.55	127.62
22	B	1011	CLA	C1-C2-C3	-3.09	121.14	126.20
25	A	1044	BCR	C33-C5-C4	3.07	120.13	113.60
22	d	6008	CLA	CMB-C2B-C1B	3.07	130.09	125.42
25	a	6044	BCR	C33-C5-C4	3.06	120.12	113.60
22	b	6011	CLA	CMB-C2B-C1B	3.05	130.07	125.42
22	D	1008	CLA	CMB-C2B-C1B	3.05	130.06	125.42
22	B	1011	CLA	CMB-C2B-C1B	3.04	130.05	125.42
25	B	1048	BCR	C38-C26-C27	3.04	120.08	113.60
22	b	6011	CLA	O1D-CGD-CBD	-3.04	118.53	124.52
25	T	6048	BCR	C38-C26-C27	3.04	120.07	113.60
22	B	1011	CLA	O1D-CGD-CBD	-3.03	118.55	124.52
22	C	1029	CLA	CAC-C3C-C4C	3.03	128.73	124.79
25	c	6054	BCR	C33-C5-C4	3.03	120.05	113.60
25	B	1048	BCR	C33-C5-C4	3.02	120.04	113.60
25	z	6053	BCR	C38-C26-C27	3.02	120.04	113.60
25	d	6050	BCR	C38-C26-C27	3.02	120.04	113.60
22	c	6029	CLA	CAC-C3C-C4C	3.02	128.72	124.79
25	b	6047	BCR	C38-C26-C27	3.02	120.04	113.60
25	T	6048	BCR	C33-C5-C4	3.02	120.04	113.60
25	D	1050	BCR	C38-C26-C27	3.02	120.03	113.60
22	B	1010	CLA	CAC-C3C-C4C	3.02	128.72	124.79
25	B	1045	BCR	C33-C5-C4	3.02	120.03	113.60
25	Z	1053	BCR	C33-C5-C4	3.02	120.03	113.60
22	b	6010	CLA	CAC-C3C-C4C	3.02	128.72	124.79
25	b	6047	BCR	C33-C5-C4	3.02	120.03	113.60
25	C	1054	BCR	C33-C5-C4	3.01	120.02	113.60
25	B	1047	BCR	C38-C26-C27	3.01	120.02	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	z	6053	BCR	C33-C5-C4	3.01	120.02	113.60
25	b	6045	BCR	C33-C5-C4	3.01	120.02	113.60
25	k	6051	BCR	C33-C5-C4	3.01	120.02	113.60
25	B	1047	BCR	C33-C5-C4	3.01	120.02	113.60
25	K	1051	BCR	C33-C5-C4	3.01	120.02	113.60
25	b	6045	BCR	C38-C26-C27	3.01	120.02	113.60
25	B	1045	BCR	C38-C26-C27	3.01	120.01	113.60
25	Z	1053	BCR	C38-C26-C27	3.01	120.01	113.60
25	D	1050	BCR	C33-C5-C4	3.01	120.01	113.60
25	k	6052	BCR	C33-C5-C4	3.01	120.01	113.60
25	C	1052	BCR	C33-C5-C4	3.00	119.99	113.60
25	d	6050	BCR	C33-C5-C4	3.00	119.99	113.60
25	A	1044	BCR	C28-C27-C26	-3.00	108.71	114.06
25	H	1049	BCR	C33-C5-C4	3.00	119.98	113.60
25	h	6049	BCR	C33-C5-C4	2.99	119.98	113.60
25	K	1051	BCR	C38-C26-C27	2.99	119.97	113.60
25	a	6044	BCR	C28-C27-C26	-2.99	108.72	114.06
25	k	6051	BCR	C38-C26-C27	2.99	119.97	113.60
22	b	6023	CLA	CAC-C3C-C4C	2.99	128.68	124.79
22	C	1030	CLA	CMB-C2B-C1B	2.98	129.96	125.42
22	c	6030	CLA	CMB-C2B-C1B	2.98	129.95	125.42
25	t	1046	BCR	C30-C25-C26	-2.98	118.57	122.64
22	B	1023	CLA	CAC-C3C-C4C	2.97	128.65	124.79
25	h	6049	BCR	C38-C26-C27	2.97	119.92	113.60
25	H	1049	BCR	C38-C26-C27	2.96	119.91	113.60
22	B	1009	CLA	CAC-C3C-C4C	2.96	128.64	124.79
22	B	1021	CLA	CMB-C2B-C1B	2.96	129.92	125.42
25	C	1054	BCR	C38-C26-C27	2.95	119.89	113.60
22	b	6023	CLA	C2D-C1D-ND	2.95	113.04	110.13
25	T	6046	BCR	C30-C25-C26	-2.95	118.61	122.64
25	c	6054	BCR	C38-C26-C27	2.95	119.88	113.60
22	b	6021	CLA	CMB-C2B-C1B	2.94	129.90	125.42
22	b	6009	CLA	CAC-C3C-C4C	2.94	128.61	124.79
22	B	1023	CLA	C2D-C1D-ND	2.94	113.03	110.13
22	b	6018	CLA	C2D-C1D-ND	2.94	113.03	110.13
22	a	6003	CLA	CAC-C3C-C4C	2.93	128.60	124.79
22	b	6015	CLA	CAC-C3C-C4C	2.93	128.60	124.79
22	b	6020	CLA	C2D-C1D-ND	2.93	113.03	110.13
25	a	6044	BCR	C38-C26-C27	2.93	119.84	113.60
22	c	6027	CLA	C2D-C1D-ND	2.92	113.02	110.13
22	C	1027	CLA	CAC-C3C-C4C	2.92	128.59	124.79
22	B	1023	CLA	CMB-C2B-C1B	2.92	129.87	125.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	A	1003	CLA	CAC-C3C-C4C	2.92	128.59	124.79
22	c	6035	CLA	CAC-C3C-C4C	2.92	128.59	124.79
22	b	6023	CLA	CMB-C2B-C1B	2.92	129.87	125.42
22	c	6026	CLA	CMB-C2B-C1B	2.92	129.86	125.42
22	B	1016	CLA	CAC-C3C-C4C	2.92	128.59	124.79
22	a	6007	CLA	CAC-C3C-C4C	2.92	128.58	124.79
22	H	1017	CLA	CAC-C3C-C4C	2.91	128.58	124.79
22	B	1013	CLA	CAC-C3C-C4C	2.91	128.58	124.79
22	K	1034	CLA	CAC-C3C-C4C	2.91	128.58	124.79
22	B	1014	CLA	CAC-C3C-C4C	2.91	128.58	124.79
22	a	6006	CLA	CAC-C3C-C4C	2.91	128.57	124.79
22	B	1018	CLA	C2D-C1D-ND	2.91	113.00	110.13
22	h	6017	CLA	CAC-C3C-C4C	2.91	128.57	124.79
22	b	6016	CLA	CAC-C3C-C4C	2.91	128.57	124.79
22	c	6029	CLA	CMD-C2D-C3D	-2.91	121.02	127.69
25	A	1044	BCR	C38-C26-C27	2.91	119.79	113.60
22	d	6008	CLA	CMD-C2D-C3D	-2.91	121.03	127.69
22	B	1022	CLA	CAC-C3C-C4C	2.90	128.57	124.79
22	C	1026	CLA	CAC-C3C-C4C	2.90	128.57	124.79
22	c	6026	CLA	CAC-C3C-C4C	2.90	128.57	124.79
22	D	1008	CLA	CMD-C2D-C3D	-2.90	121.03	127.69
22	k	6034	CLA	CAC-C3C-C4C	2.90	128.56	124.79
22	C	1032	CLA	CAC-C3C-C4C	2.90	128.56	124.79
22	C	1029	CLA	CMD-C2D-C3D	-2.90	121.04	127.69
22	b	6014	CLA	CAC-C3C-C4C	2.90	128.56	124.79
22	c	6027	CLA	CAC-C3C-C4C	2.90	128.56	124.79
22	c	6028	CLA	CAC-C3C-C4C	2.90	128.56	124.79
22	c	6032	CLA	CAC-C3C-C4C	2.90	128.56	124.79
22	B	1020	CLA	CAC-C3C-C4C	2.90	128.56	124.79
22	B	1024	CLA	CAC-C3C-C4C	2.90	128.56	124.79
22	c	6025	CLA	C2D-C1D-ND	2.90	112.99	110.13
22	d	6005	CLA	CMB-C2B-C1B	2.90	129.83	125.42
22	C	1025	CLA	CAC-C3C-C4C	2.90	128.56	124.79
22	D	1004	CLA	CAC-C3C-C4C	2.90	128.56	124.79
22	b	6020	CLA	CAC-C3C-C4C	2.90	128.56	124.79
22	C	1026	CLA	CMB-C2B-C1B	2.90	129.83	125.42
22	C	1035	CLA	CAC-C3C-C4C	2.89	128.56	124.79
25	A	1044	BCR	C37-C22-C21	-2.89	118.13	122.82
22	b	6022	CLA	CAC-C3C-C4C	2.89	128.55	124.79
25	a	6044	BCR	C37-C22-C21	-2.89	118.13	122.82
22	B	1015	CLA	CAC-C3C-C4C	2.89	128.55	124.79
22	A	1006	CLA	CAC-C3C-C4C	2.89	128.55	124.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	A	1007	CLA	CAC-C3C-C4C	2.89	128.55	124.79
22	c	6025	CLA	CAC-C3C-C4C	2.89	128.55	124.79
22	B	1020	CLA	C2D-C1D-ND	2.89	112.98	110.13
22	a	6003	CLA	C2D-C1D-ND	2.89	112.98	110.13
22	B	1021	CLA	CMD-C2D-C3D	-2.89	121.07	127.69
22	c	6027	CLA	CMB-C2B-C1B	2.89	129.81	125.42
22	b	6014	CLA	CMB-C2B-C1B	2.88	129.81	125.42
22	C	1031	CLA	CAC-C3C-C4C	2.88	128.54	124.79
22	b	6013	CLA	CAC-C3C-C4C	2.88	128.54	124.79
22	C	1025	CLA	C2D-C1D-ND	2.88	112.98	110.13
22	C	1036	CLA	CAC-C3C-C4C	2.88	128.54	124.79
22	D	1005	CLA	CAC-C3C-C4C	2.88	128.54	124.79
22	k	6034	CLA	CMD-C2D-C3D	-2.88	121.08	127.69
22	B	1020	CLA	CMB-C2B-C1B	2.88	129.81	125.42
22	b	6021	CLA	CMD-C2D-C3D	-2.88	121.08	127.69
22	B	1018	CLA	CMB-C2B-C1B	2.88	129.80	125.42
22	b	6020	CLA	CMB-C2B-C1B	2.88	129.80	125.42
22	d	6005	CLA	CAC-C3C-C4C	2.88	128.53	124.79
22	B	1024	CLA	CMB-C2B-C1B	2.88	129.80	125.42
22	c	6030	CLA	C2D-C1D-ND	2.88	112.97	110.13
22	B	1012	CLA	CAC-C3C-C4C	2.88	128.53	124.79
22	C	1037	CLA	CAC-C3C-C4C	2.88	128.53	124.79
22	c	6036	CLA	C2D-C1D-ND	2.88	112.97	110.13
22	C	1029	CLA	CMB-C2B-C1B	2.88	129.80	125.42
22	d	6004	CLA	CMB-C2B-C1B	2.87	129.80	125.42
22	h	6017	CLA	CMB-C2B-C1B	2.87	129.80	125.42
22	C	1028	CLA	CAC-C3C-C4C	2.87	128.53	124.79
22	B	1021	CLA	C2D-C1D-ND	2.87	112.97	110.13
22	b	6016	CLA	C2D-C1D-ND	2.87	112.97	110.13
22	d	6004	CLA	CAC-C3C-C4C	2.87	128.53	124.79
22	c	6035	CLA	CMD-C2D-C3D	-2.87	121.10	127.69
22	B	1014	CLA	CMB-C2B-C1B	2.87	129.79	125.42
22	C	1033	CLA	CAC-C3C-C4C	2.87	128.53	124.79
22	c	6026	CLA	CMD-C2D-C3D	-2.87	121.10	127.69
22	h	6017	CLA	C2D-C1D-ND	2.87	112.97	110.13
22	B	1019	CLA	CAC-C3C-C4C	2.87	128.53	124.79
22	A	1003	CLA	CMB-C2B-C1B	2.87	129.79	125.42
22	b	6015	CLA	CMB-C2B-C1B	2.87	129.79	125.42
22	b	6018	CLA	CMB-C2B-C1B	2.87	129.79	125.42
22	b	6024	CLA	CMB-C2B-C1B	2.87	129.79	125.42
22	k	6034	CLA	CMB-C2B-C1B	2.87	129.79	125.42
22	b	6019	CLA	CAC-C3C-C4C	2.87	128.52	124.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	A	1003	CLA	C2D-C1D-ND	2.87	112.97	110.13
22	C	1027	CLA	CMB-C2B-C1B	2.87	129.79	125.42
22	b	6016	CLA	CMB-C2B-C1B	2.87	129.79	125.42
22	B	1018	CLA	CAC-C3C-C4C	2.87	128.52	124.79
22	c	6036	CLA	CAC-C3C-C4C	2.87	128.52	124.79
22	C	1025	CLA	CMB-C2B-C1B	2.87	129.78	125.42
22	A	1003	CLA	CMD-C2D-C3D	-2.87	121.11	127.69
22	b	6012	CLA	CAC-C3C-C4C	2.87	128.52	124.79
22	K	1034	CLA	CMB-C2B-C1B	2.87	129.78	125.42
22	c	6029	CLA	CMB-C2B-C1B	2.87	129.78	125.42
22	b	6011	CLA	C4C-C3C-C2C	-2.87	102.72	106.89
22	B	1016	CLA	CMB-C2B-C1B	2.86	129.78	125.42
22	D	1004	CLA	CMB-C2B-C1B	2.86	129.78	125.42
22	C	1036	CLA	C2D-C1D-ND	2.86	112.96	110.13
22	D	1005	CLA	CMB-C2B-C1B	2.86	129.78	125.42
22	c	6035	CLA	CMB-C2B-C1B	2.86	129.78	125.42
22	b	6023	CLA	CMD-C2D-C3D	-2.86	121.12	127.69
22	B	1014	CLA	C2D-C1D-ND	2.86	112.96	110.13
22	B	1015	CLA	C2D-C1D-ND	2.86	112.96	110.13
22	C	1030	CLA	C2D-C1D-ND	2.86	112.96	110.13
22	A	1007	CLA	CMB-C2B-C1B	2.86	129.78	125.42
22	c	6033	CLA	CAC-C3C-C4C	2.86	128.51	124.79
22	c	6028	CLA	CMB-C2B-C1B	2.86	129.78	125.42
22	C	1033	CLA	CMD-C2D-C3D	-2.86	121.12	127.69
22	a	6003	CLA	CMD-C2D-C3D	-2.86	121.12	127.69
22	C	1027	CLA	C2D-C1D-ND	2.86	112.96	110.13
22	c	6037	CLA	CMB-C2B-C1B	2.86	129.77	125.42
22	K	1034	CLA	CMD-C2D-C3D	-2.86	121.13	127.69
22	D	1008	CLA	O1D-CGD-CBD	-2.86	118.88	124.52
22	c	6036	CLA	CMB-C2B-C1B	2.86	129.77	125.42
22	b	6024	CLA	CMD-C2D-C3D	-2.86	121.13	127.69
22	C	1036	CLA	CMB-C2B-C1B	2.86	129.77	125.42
22	C	1031	CLA	C2D-C1D-ND	2.86	112.95	110.13
22	K	1034	CLA	C2D-C1D-ND	2.86	112.95	110.13
22	b	6012	CLA	C2D-C1D-ND	2.86	112.95	110.13
22	H	1017	CLA	CMB-C2B-C1B	2.86	129.77	125.42
22	B	1015	CLA	CMD-C2D-C3D	-2.86	121.14	127.69
22	b	6018	CLA	CMD-C2D-C3D	-2.86	121.14	127.69
22	d	6004	CLA	C2D-C1D-ND	2.86	112.95	110.13
22	c	6033	CLA	CMD-C2D-C3D	-2.86	121.14	127.69
22	b	6013	CLA	CMB-C2B-C1B	2.85	129.77	125.42
22	C	1035	CLA	CMD-C2D-C3D	-2.85	121.14	127.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	B	1020	CLA	CMD-C2D-C3D	-2.85	121.14	127.69
22	B	1015	CLA	CMB-C2B-C1B	2.85	129.76	125.42
22	C	1026	CLA	CMD-C2D-C3D	-2.85	121.14	127.69
22	c	6026	CLA	C2D-C1D-ND	2.85	112.95	110.13
22	c	6030	CLA	O2D-CGD-O1D	-2.85	118.29	123.85
22	a	6003	CLA	CMB-C2B-C1B	2.85	129.76	125.42
22	B	1024	CLA	CMD-C2D-C3D	-2.85	121.15	127.69
22	C	1031	CLA	CMB-C2B-C1B	2.85	129.76	125.42
22	c	6031	CLA	CMB-C2B-C1B	2.85	129.76	125.42
22	A	1007	CLA	C2D-C1D-ND	2.85	112.95	110.13
22	a	6007	CLA	C2D-C1D-ND	2.85	112.95	110.13
22	C	1032	CLA	CMB-C2B-C1B	2.85	129.76	125.42
22	b	6015	CLA	CMD-C2D-C3D	-2.85	121.15	127.69
22	c	6037	CLA	CAC-C3C-C4C	2.85	128.50	124.79
22	d	6005	CLA	CMD-C2D-C3D	-2.85	121.15	127.69
22	b	6019	CLA	CMB-C2B-C1B	2.85	129.76	125.42
22	C	1033	CLA	C2D-C1D-ND	2.85	112.95	110.13
22	k	6034	CLA	C2D-C1D-ND	2.85	112.95	110.13
22	B	1012	CLA	CMB-C2B-C1B	2.85	129.76	125.42
22	C	1035	CLA	CMB-C2B-C1B	2.85	129.76	125.42
22	C	1037	CLA	CMB-C2B-C1B	2.85	129.76	125.42
22	c	6025	CLA	CMB-C2B-C1B	2.85	129.76	125.42
22	B	1013	CLA	CMB-C2B-C1B	2.85	129.76	125.42
22	B	1023	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
22	B	1019	CLA	CMB-C2B-C1B	2.85	129.75	125.42
22	b	6012	CLA	CMB-C2B-C1B	2.85	129.75	125.42
22	A	1007	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
22	C	1031	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
22	c	6032	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
22	B	1018	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
22	B	1022	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
22	C	1025	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
22	b	6022	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
22	c	6025	CLA	CMD-C2D-C3D	-2.85	121.16	127.69
22	c	6031	CLA	CAC-C3C-C4C	2.85	128.49	124.79
22	b	6018	CLA	CAC-C3C-C4C	2.85	128.49	124.79
22	C	1026	CLA	C2D-C1D-ND	2.85	112.94	110.13
22	c	6031	CLA	C2D-C1D-ND	2.85	112.94	110.13
22	B	1013	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
22	D	1005	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
22	b	6020	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
22	D	1005	CLA	C2D-C1D-ND	2.84	112.94	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	D	1004	CLA	C2D-C1D-ND	2.84	112.94	110.13
22	b	6015	CLA	C2D-C1D-ND	2.84	112.94	110.13
22	b	6021	CLA	C2D-C1D-ND	2.84	112.94	110.13
22	c	6032	CLA	CMB-C2B-C1B	2.84	129.75	125.42
22	c	6031	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
22	B	1014	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
22	b	6012	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
22	a	6006	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
22	b	6019	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
22	B	1012	CLA	C2D-C1D-ND	2.84	112.94	110.13
22	c	6035	CLA	C2D-C1D-ND	2.84	112.94	110.13
22	b	6009	CLA	CMD-C2D-C3D	-2.84	121.17	127.69
22	c	6027	CLA	CMD-C2D-C3D	-2.84	121.18	127.69
22	H	1017	CLA	CMD-C2D-C3D	-2.84	121.18	127.69
22	C	1028	CLA	CMB-C2B-C1B	2.84	129.74	125.42
22	b	6022	CLA	CMB-C2B-C1B	2.84	129.74	125.42
22	C	1032	CLA	C2D-C1D-ND	2.84	112.94	110.13
22	C	1027	CLA	CMD-C2D-C3D	-2.84	121.18	127.69
22	a	6007	CLA	CMB-C2B-C1B	2.84	129.74	125.42
22	C	1029	CLA	C4-C3-C5	2.84	120.15	115.23
22	B	1016	CLA	CMD-C2D-C3D	-2.84	121.18	127.69
22	c	6028	CLA	CMD-C2D-C3D	-2.84	121.18	127.69
22	b	6024	CLA	CAC-C3C-C4C	2.84	128.48	124.79
22	C	1028	CLA	CMD-C2D-C3D	-2.84	121.19	127.69
22	B	1009	CLA	CMD-C2D-C3D	-2.84	121.19	127.69
22	B	1011	CLA	C4C-C3C-C2C	-2.83	102.77	106.89
22	C	1037	CLA	C2D-C1D-ND	2.83	112.93	110.13
22	d	6008	CLA	O1D-CGD-CBD	-2.83	118.93	124.52
22	A	1006	CLA	CMD-C2D-C3D	-2.83	121.19	127.69
22	B	1012	CLA	CMD-C2D-C3D	-2.83	121.19	127.69
22	c	6033	CLA	CMB-C2B-C1B	2.83	129.73	125.42
22	B	1019	CLA	CMD-C2D-C3D	-2.83	121.19	127.69
22	b	6014	CLA	CMD-C2D-C3D	-2.83	121.19	127.69
22	B	1022	CLA	CMB-C2B-C1B	2.83	129.73	125.42
22	a	6006	CLA	CMB-C2B-C1B	2.83	129.73	125.42
22	C	1032	CLA	CMD-C2D-C3D	-2.83	121.20	127.69
22	b	6011	CLA	C2D-C1D-ND	2.83	112.93	110.13
22	a	6007	CLA	CMD-C2D-C3D	-2.83	121.20	127.69
22	C	1036	CLA	CMD-C2D-C3D	-2.83	121.20	127.69
22	b	6016	CLA	CMD-C2D-C3D	-2.83	121.20	127.69
22	c	6037	CLA	CMD-C2D-C3D	-2.83	121.20	127.69
22	B	1010	CLA	C2D-C1D-ND	2.83	112.92	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	6022	CLA	C2D-C1D-ND	2.83	112.92	110.13
22	A	1006	CLA	CMB-C2B-C1B	2.83	129.72	125.42
22	c	6029	CLA	C4-C3-C5	2.83	120.14	115.23
22	b	6021	CLA	CAC-C3C-C4C	2.83	128.47	124.79
22	C	1037	CLA	CMD-C2D-C3D	-2.83	121.21	127.69
25	C	1052	BCR	C38-C26-C25	-2.83	121.40	124.48
22	h	6017	CLA	CMD-C2D-C3D	-2.83	121.21	127.69
22	C	1030	CLA	O2D-CGD-O1D	-2.83	118.35	123.85
22	B	1024	CLA	C2D-C1D-ND	2.83	112.92	110.13
22	C	1033	CLA	CMB-C2B-C1B	2.82	129.72	125.42
22	b	6013	CLA	CMD-C2D-C3D	-2.82	121.21	127.69
22	B	1022	CLA	C2D-C1D-ND	2.82	112.92	110.13
22	D	1004	CLA	CMD-C2D-C3D	-2.82	121.22	127.69
22	B	1016	CLA	C2D-C1D-ND	2.82	112.92	110.13
25	B	1048	BCR	C28-C27-C26	-2.82	109.03	114.06
22	C	1035	CLA	C2D-C1D-ND	2.82	112.92	110.13
22	B	1011	CLA	C2D-C1D-ND	2.82	112.92	110.13
25	A	1044	BCR	C23-C24-C25	2.82	134.53	127.00
25	k	6052	BCR	C38-C26-C25	-2.82	121.41	124.48
22	C	1029	CLA	O2D-CGD-O1D	-2.82	118.36	123.85
22	H	1017	CLA	C2D-C1D-ND	2.82	112.91	110.13
25	a	6044	BCR	C23-C24-C25	2.82	134.52	127.00
22	C	1030	CLA	CMD-C2D-C3D	-2.82	121.23	127.69
22	B	1019	CLA	C2D-C1D-ND	2.81	112.91	110.13
22	d	6005	CLA	C2D-C1D-ND	2.81	112.91	110.13
22	d	6004	CLA	CMD-C2D-C3D	-2.81	121.24	127.69
25	T	6048	BCR	C28-C27-C26	-2.81	109.04	114.06
22	b	6019	CLA	C2D-C1D-ND	2.81	112.91	110.13
22	c	6036	CLA	CMD-C2D-C3D	-2.81	121.24	127.69
22	b	6010	CLA	CMD-C2D-C3D	-2.81	121.24	127.69
22	B	1021	CLA	CAC-C3C-C4C	2.81	128.45	124.79
22	c	6028	CLA	C2D-C1D-ND	2.81	112.91	110.13
22	c	6037	CLA	C2D-C1D-ND	2.81	112.91	110.13
22	A	1006	CLA	C2D-C1D-ND	2.81	112.91	110.13
22	b	6014	CLA	C2D-C1D-ND	2.81	112.91	110.13
22	b	6010	CLA	C2D-C1D-ND	2.80	112.90	110.13
22	c	6030	CLA	CMD-C2D-C3D	-2.80	121.26	127.69
25	a	6044	BCR	C3-C4-C5	-2.80	109.06	114.06
22	c	6029	CLA	O2D-CGD-O1D	-2.80	118.39	123.85
22	a	6006	CLA	C2D-C1D-ND	2.80	112.90	110.13
22	C	1028	CLA	C2D-C1D-ND	2.80	112.90	110.13
22	d	6008	CLA	C2D-C1D-ND	2.80	112.90	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	c	6032	CLA	C2D-C1D-ND	2.80	112.90	110.13
22	B	1010	CLA	CMD-C2D-C3D	-2.80	121.27	127.69
22	b	6009	CLA	CMB-C2B-C1B	2.80	129.68	125.42
22	b	6024	CLA	C2D-C1D-ND	2.79	112.89	110.13
22	B	1010	CLA	C4-C3-C5	2.79	120.08	115.23
22	c	6033	CLA	C2D-C1D-ND	2.79	112.89	110.13
25	B	1047	BCR	C28-C27-C26	-2.79	109.08	114.06
22	a	6003	CLA	C4C-C3C-C2C	-2.79	102.83	106.89
25	A	1044	BCR	C3-C4-C5	-2.79	109.08	114.06
22	b	6013	CLA	C4-C3-C5	2.79	120.07	115.23
23	d	6039	PHO	C4-C3-C5	2.79	120.06	115.23
22	b	6013	CLA	C2D-C1D-ND	2.79	112.88	110.13
22	B	1009	CLA	CMB-C2B-C1B	2.78	129.65	125.42
22	c	6032	CLA	C4C-C3C-C2C	-2.78	102.84	106.89
22	a	6007	CLA	C4-C3-C5	2.78	120.06	115.23
22	A	1007	CLA	C4-C3-C5	2.78	120.05	115.23
22	b	6010	CLA	C4-C3-C5	2.78	120.05	115.23
22	B	1009	CLA	C2D-C1D-ND	2.78	112.88	110.13
22	C	1029	CLA	C4C-C3C-C2C	-2.78	102.85	106.89
25	b	6047	BCR	C28-C27-C26	-2.78	109.10	114.06
22	B	1011	CLA	CHB-C4A-NA	2.78	128.41	124.40
22	b	6021	CLA	C4-C3-C5	2.78	120.05	115.23
22	B	1013	CLA	C2D-C1D-ND	2.77	112.87	110.13
22	D	1008	CLA	C4-C3-C5	2.77	120.04	115.23
22	A	1003	CLA	C4C-C3C-C2C	-2.77	102.85	106.89
22	b	6009	CLA	C4C-C3C-C2C	-2.77	102.85	106.89
22	b	6014	CLA	C4-C3-C5	2.77	120.04	115.23
22	B	1021	CLA	C4-C3-C5	2.77	120.04	115.23
22	B	1015	CLA	C4-C3-C5	2.77	120.04	115.23
24	d	6042	PQ9	C29-C28-C30	2.77	120.04	115.23
22	d	6004	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
22	C	1029	CLA	C2D-C1D-ND	2.77	112.87	110.13
22	c	6035	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
24	D	1042	PQ9	C19-C18-C20	2.77	120.04	115.23
22	B	1021	CLA	CHB-C4A-NA	2.77	128.40	124.40
22	B	1013	CLA	C4-C3-C5	2.77	120.04	115.23
22	d	6008	CLA	C4-C3-C5	2.77	120.04	115.23
22	B	1009	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
22	c	6028	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
22	c	6029	CLA	C2D-C1D-ND	2.77	112.87	110.13
22	H	1017	CLA	C4-C3-C5	2.77	120.03	115.23
23	D	1039	PHO	C4-C3-C5	2.77	120.03	115.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	6015	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
24	d	6042	PQ9	C19-C18-C20	2.77	120.03	115.23
22	C	1035	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
22	B	1010	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
22	C	1032	CLA	C4C-C3C-C2C	-2.77	102.86	106.89
22	B	1013	CLA	C4C-C3C-C2C	-2.77	102.87	106.89
22	C	1036	CLA	C4-C3-C5	2.77	120.03	115.23
25	T	6046	BCR	C38-C26-C27	2.77	119.49	113.60
22	b	6009	CLA	C2D-C1D-ND	2.76	112.86	110.13
24	d	6042	PQ9	C39-C38-C40	2.76	120.03	115.23
24	a	6043	PQ9	C39-C38-C40	2.76	120.02	115.23
22	B	1011	CLA	CMD-C2D-C3D	-2.76	121.35	127.69
22	b	6010	CLA	C4C-C3C-C2C	-2.76	102.87	106.89
22	D	1004	CLA	C4C-C3C-C2C	-2.76	102.87	106.89
22	b	6015	CLA	C4-C3-C5	2.76	120.02	115.23
24	D	1042	PQ9	C39-C38-C40	2.76	120.02	115.23
24	D	1042	PQ9	C29-C28-C30	2.76	120.02	115.23
22	B	1024	CLA	C4-C3-C5	2.76	120.02	115.23
22	b	6022	CLA	C4-C3-C5	2.76	120.02	115.23
24	d	6042	PQ9	C34-C33-C35	2.76	120.02	115.23
22	C	1026	CLA	C4C-C3C-C2C	-2.76	102.87	106.89
22	b	6021	CLA	CHB-C4A-NA	2.76	128.38	124.40
25	t	1046	BCR	C38-C26-C27	2.76	119.48	113.60
22	D	1004	CLA	C4-C3-C5	2.76	120.02	115.23
22	c	6032	CLA	C4-C3-C5	2.76	120.02	115.23
24	D	1042	PQ9	C24-C23-C25	2.76	120.02	115.23
24	d	6042	PQ9	C24-C23-C25	2.76	120.02	115.23
22	C	1028	CLA	C4C-C3C-C2C	-2.76	102.88	106.89
22	c	6037	CLA	C4C-C3C-C2C	-2.76	102.88	106.89
22	c	6026	CLA	C4-C3-C5	2.76	120.02	115.23
22	C	1031	CLA	C4C-C3C-C2C	-2.76	102.88	106.89
22	d	6005	CLA	CHB-C4A-NA	2.76	128.38	124.40
22	k	6034	CLA	C4-C3-C5	2.76	120.01	115.23
24	A	1043	PQ9	C14-C13-C15	2.76	120.01	115.23
22	C	1027	CLA	C4C-C3C-C2C	-2.76	102.88	106.89
23	A	1038	PHO	C4-C3-C5	2.76	120.01	115.23
22	B	1023	CLA	C4-C3-C5	2.75	120.01	115.23
24	a	6043	PQ9	C14-C13-C15	2.75	120.01	115.23
22	b	6016	CLA	C4C-C3C-C2C	-2.75	102.88	106.89
22	c	6025	CLA	C4C-C3C-C2C	-2.75	102.88	106.89
24	D	1042	PQ9	C14-C13-C15	2.75	120.01	115.23
22	B	1022	CLA	C4C-C3C-C2C	-2.75	102.88	106.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	C	1037	CLA	C4C-C3C-C2C	-2.75	102.88	106.89
22	h	6017	CLA	C4-C3-C5	2.75	120.01	115.23
22	a	6006	CLA	C4-C3-C5	2.75	120.01	115.23
22	d	6004	CLA	C4-C3-C5	2.75	120.01	115.23
22	A	1006	CLA	C4-C3-C5	2.75	120.01	115.23
22	A	1003	CLA	C4-C3-C5	2.75	120.00	115.23
24	A	1043	PQ9	C39-C38-C40	2.75	120.00	115.23
22	b	6020	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	c	6033	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	b	6011	CLA	CMD-C2D-C3D	-2.75	121.38	127.69
22	c	6031	CLA	C4-C3-C5	2.75	120.00	115.23
24	a	6043	PQ9	C24-C23-C25	2.75	120.00	115.23
22	B	1016	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	B	1024	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	a	6003	CLA	C4-C3-C5	2.75	120.00	115.23
22	B	1014	CLA	C4-C3-C5	2.75	120.00	115.23
22	C	1032	CLA	C4-C3-C5	2.75	120.00	115.23
22	B	1014	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	K	1034	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	C	1026	CLA	C4-C3-C5	2.75	120.00	115.23
22	c	6037	CLA	C4-C3-C5	2.75	120.00	115.23
22	B	1010	CLA	O2D-CGD-O1D	-2.75	118.50	123.85
22	C	1025	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	h	6017	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	a	6006	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	B	1018	CLA	C4-C3-C5	2.75	120.00	115.23
22	c	6027	CLA	C4-C3-C5	2.75	120.00	115.23
23	D	1039	PHO	O2A-CGA-CBA	2.75	120.21	111.83
22	C	1033	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	b	6022	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	C	1031	CLA	C4-C3-C5	2.75	120.00	115.23
23	d	6039	PHO	O2A-CGA-CBA	2.75	120.21	111.83
22	c	6031	CLA	CHB-C4A-NA	2.75	128.36	124.40
22	c	6029	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	C	1033	CLA	C4-C3-C5	2.75	119.99	115.23
22	b	6011	CLA	C4-C3-C5	2.75	119.99	115.23
22	b	6018	CLA	C4-C3-C5	2.75	119.99	115.23
22	b	6014	CLA	C4C-C3C-C2C	-2.75	102.89	106.89
22	b	6010	CLA	O2D-CGD-O1D	-2.75	118.50	123.85
22	B	1011	CLA	C4-C3-C5	2.75	119.99	115.23
22	C	1027	CLA	C4-C3-C5	2.74	119.99	115.23
28	B	1060	MGE	O1G-C1A-C2A	2.74	120.20	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	D	1062	MGE	O1G-C1A-C2A	2.74	120.20	111.83
22	b	6013	CLA	C4C-C3C-C2C	-2.74	102.90	106.89
26	A	1063	LHG	O8-C23-C24	2.74	120.20	111.83
29	c	6055	DGD	O1G-C1A-C2A	2.74	120.20	111.83
29	C	1055	DGD	O1G-C1A-C2A	2.74	120.20	111.83
22	C	1035	CLA	C4-C3-C5	2.74	119.99	115.23
22	B	1015	CLA	C4C-C3C-C2C	-2.74	102.90	106.89
22	b	6011	CLA	CHB-C4A-NA	2.74	128.36	124.40
22	K	1034	CLA	C4-C3-C5	2.74	119.99	115.23
24	a	6043	PQ9	C19-C18-C20	2.74	119.99	115.23
22	B	1012	CLA	C4-C3-C5	2.74	119.99	115.23
22	B	1020	CLA	C4-C3-C5	2.74	119.99	115.23
22	B	1022	CLA	C4-C3-C5	2.74	119.99	115.23
22	b	6024	CLA	C4-C3-C5	2.74	119.99	115.23
22	c	6036	CLA	C4-C3-C5	2.74	119.99	115.23
22	B	1018	CLA	C4C-C3C-C2C	-2.74	102.90	106.89
22	b	6019	CLA	CHB-C4A-NA	2.74	128.36	124.40
22	c	6035	CLA	C4-C3-C5	2.74	119.99	115.23
24	A	1043	PQ9	C19-C18-C20	2.74	119.99	115.23
22	b	6023	CLA	C4-C3-C5	2.74	119.98	115.23
24	A	1043	PQ9	C24-C23-C25	2.74	119.98	115.23
22	D	1008	CLA	C2D-C1D-ND	2.74	112.84	110.13
28	b	6060	MGE	O1G-C1A-C2A	2.74	120.19	111.83
22	B	1019	CLA	CHB-C4A-NA	2.74	128.35	124.40
22	C	1036	CLA	C4C-C3C-C2C	-2.74	102.90	106.89
22	c	6033	CLA	C4-C3-C5	2.74	119.98	115.23
22	C	1030	CLA	CHB-C4A-NA	2.74	128.35	124.40
22	B	1019	CLA	C4-C3-C5	2.74	119.98	115.23
29	b	6058	DGD	O1G-C1A-C2A	2.74	120.19	111.83
22	H	1017	CLA	C4C-C3C-C2C	-2.74	102.91	106.89
29	C	1056	DGD	O1G-C1A-C2A	2.74	120.18	111.83
22	b	6020	CLA	C4-C3-C5	2.74	119.98	115.23
24	D	1042	PQ9	C34-C33-C35	2.74	119.98	115.23
22	c	6030	CLA	C4C-C3C-C2C	-2.74	102.91	106.89
23	A	1038	PHO	O2A-CGA-CBA	2.74	120.17	111.83
28	D	1059	MGE	O1G-C1A-C2A	2.74	120.17	111.83
22	D	1005	CLA	C4-C3-C5	2.73	119.97	115.23
22	C	1029	CLA	O2A-CGA-CBA	2.73	120.17	111.83
23	a	6038	PHO	O2A-CGA-CBA	2.73	120.17	111.83
29	B	1058	DGD	O1G-C1A-C2A	2.73	120.17	111.83
22	b	6014	CLA	CHB-C4A-NA	2.73	128.35	124.40
23	a	6038	PHO	C4-C3-C5	2.73	119.97	115.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	B	1020	CLA	C4C-C3C-C2C	-2.73	102.91	106.89
28	l	6061	MGE	O1G-C1A-C2A	2.73	120.17	111.83
22	d	6005	CLA	C4C-C3C-C2C	-2.73	102.91	106.89
26	a	6063	LHG	O8-C23-C24	2.73	120.17	111.83
22	C	1037	CLA	CHB-C4A-NA	2.73	128.34	124.40
22	c	6029	CLA	O2A-CGA-CBA	2.73	120.17	111.83
28	L	1061	MGE	O1G-C1A-C2A	2.73	120.17	111.83
28	d	6062	MGE	O1G-C1A-C2A	2.73	120.17	111.83
22	c	6027	CLA	CHB-C4A-NA	2.73	128.34	124.40
24	A	1043	PQ9	C29-C28-C30	2.73	119.97	115.23
24	A	1043	PQ9	C34-C33-C35	2.73	119.97	115.23
22	C	1030	CLA	C4C-C3C-C2C	-2.73	102.92	106.89
22	c	6027	CLA	C4C-C3C-C2C	-2.73	102.92	106.89
22	c	6031	CLA	C4C-C3C-C2C	-2.73	102.92	106.89
22	c	6036	CLA	C4C-C3C-C2C	-2.73	102.92	106.89
22	c	6033	CLA	CHB-C4A-NA	2.73	128.34	124.40
22	b	6012	CLA	C4-C3-C5	2.73	119.97	115.23
22	D	1005	CLA	CHB-C4A-NA	2.73	128.34	124.40
22	B	1012	CLA	C4C-C3C-C2C	-2.73	102.92	106.89
29	c	6056	DGD	O1G-C1A-C2A	2.73	120.16	111.83
22	C	1037	CLA	C4-C3-C5	2.73	119.97	115.23
22	B	1014	CLA	CHB-C4A-NA	2.73	128.34	124.40
22	C	1025	CLA	C4-C3-C5	2.73	119.96	115.23
22	b	6015	CLA	CHB-C4A-NA	2.73	128.34	124.40
24	a	6043	PQ9	C29-C28-C30	2.73	119.96	115.23
22	b	6009	CLA	O2D-CGD-O1D	-2.73	118.54	123.85
22	b	6012	CLA	CHB-C4A-NA	2.73	128.34	124.40
22	c	6037	CLA	CHB-C4A-NA	2.73	128.34	124.40
22	d	6005	CLA	C4-C3-C5	2.73	119.96	115.23
22	C	1028	CLA	C4-C3-C5	2.73	119.96	115.23
22	b	6024	CLA	C4C-C3C-C2C	-2.73	102.92	106.89
24	d	6042	PQ9	C14-C13-C15	2.73	119.96	115.23
22	c	6026	CLA	C4C-C3C-C2C	-2.73	102.92	106.89
22	k	6034	CLA	C4C-C3C-C2C	-2.73	102.92	106.89
22	B	1016	CLA	C4-C3-C5	2.72	119.96	115.23
22	B	1011	CLA	CAC-C3C-C4C	2.72	128.34	124.79
22	A	1007	CLA	CHB-C4A-NA	2.72	128.33	124.40
22	b	6022	CLA	CHB-C4A-NA	2.72	128.33	124.40
22	c	6028	CLA	C4-C3-C5	2.72	119.96	115.23
22	a	6006	CLA	CHB-C4A-NA	2.72	128.33	124.40
22	C	1036	CLA	CHB-C4A-NA	2.72	128.33	124.40
22	b	6011	CLA	CAC-C3C-C4C	2.72	128.33	124.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	D	1005	CLA	C4C-C3C-C2C	-2.72	102.93	106.89
22	B	1016	CLA	CHB-C4A-NA	2.72	128.33	124.40
22	c	6030	CLA	CHB-C4A-NA	2.72	128.33	124.40
22	A	1006	CLA	C4C-C3C-C2C	-2.72	102.93	106.89
22	b	6018	CLA	C4C-C3C-C2C	-2.72	102.93	106.89
22	b	6016	CLA	CHB-C4A-NA	2.72	128.33	124.40
22	c	6035	CLA	CHB-C4A-NA	2.72	128.33	124.40
22	A	1007	CLA	C4C-C3C-C2C	-2.72	102.93	106.89
22	B	1019	CLA	C4C-C3C-C2C	-2.72	102.93	106.89
22	c	6025	CLA	C4-C3-C5	2.72	119.95	115.23
24	a	6043	PQ9	C34-C33-C35	2.72	119.95	115.23
22	b	6012	CLA	C4C-C3C-C2C	-2.72	102.93	106.89
29	C	1057	DGD	O1G-C1A-C2A	2.72	120.13	111.83
22	B	1012	CLA	CHB-C4A-NA	2.72	128.32	124.40
25	k	6052	BCR	C37-C22-C21	-2.72	118.41	122.82
28	d	6059	MGE	O1G-C1A-C2A	2.72	120.12	111.83
22	a	6003	CLA	CHB-C4A-NA	2.72	128.32	124.40
22	c	6036	CLA	CHB-C4A-NA	2.72	128.32	124.40
22	k	6034	CLA	CHB-C4A-NA	2.72	128.32	124.40
22	B	1023	CLA	C4C-C3C-C2C	-2.72	102.94	106.89
22	B	1024	CLA	CHB-C4A-NA	2.72	128.32	124.40
22	b	6016	CLA	C4-C3-C5	2.72	119.94	115.23
22	C	1031	CLA	CHB-C4A-NA	2.72	128.32	124.40
22	B	1009	CLA	O2D-CGD-O1D	-2.72	118.56	123.85
22	B	1022	CLA	CHB-C4A-NA	2.72	128.32	124.40
22	b	6023	CLA	C4C-C3C-C2C	-2.71	102.94	106.89
22	B	1020	CLA	CHB-C4A-NA	2.71	128.32	124.40
22	b	6020	CLA	CHB-C4A-NA	2.71	128.32	124.40
22	c	6032	CLA	CHB-C4A-NA	2.71	128.32	124.40
22	b	6019	CLA	C4-C3-C5	2.71	119.94	115.23
22	b	6019	CLA	C4C-C3C-C2C	-2.71	102.94	106.89
22	C	1035	CLA	CHB-C4A-NA	2.71	128.31	124.40
22	d	6008	CLA	C4C-C3C-C2C	-2.71	102.94	106.89
22	a	6007	CLA	C4C-C3C-C2C	-2.71	102.94	106.89
22	B	1013	CLA	CHB-C4A-NA	2.71	128.31	124.40
22	A	1003	CLA	CHB-C4A-NA	2.71	128.31	124.40
22	b	6009	CLA	CHB-C4A-NA	2.71	128.31	124.40
22	h	6017	CLA	CHB-C4A-NA	2.71	128.31	124.40
22	A	1006	CLA	CHB-C4A-NA	2.71	128.31	124.40
22	C	1026	CLA	CHB-C4A-NA	2.71	128.31	124.40
29	c	6057	DGD	O1G-C1A-C2A	2.71	120.09	111.83
22	B	1009	CLA	CHB-C4A-NA	2.71	128.31	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	B	1015	CLA	CHB-C4A-NA	2.71	128.31	124.40
22	C	1027	CLA	CHB-C4A-NA	2.71	128.31	124.40
22	b	6020	CLA	O2A-CGA-CBA	2.71	120.08	111.83
22	B	1021	CLA	C4C-C3C-C2C	-2.70	102.96	106.89
25	C	1052	BCR	C37-C22-C21	-2.70	118.44	122.82
22	K	1034	CLA	CHB-C4A-NA	2.70	128.30	124.40
22	b	6021	CLA	C4C-C3C-C2C	-2.70	102.96	106.89
22	c	6025	CLA	CHB-C4A-NA	2.70	128.30	124.40
22	C	1033	CLA	CHB-C4A-NA	2.70	128.30	124.40
22	C	1032	CLA	CHB-C4A-NA	2.70	128.30	124.40
22	D	1008	CLA	C4C-C3C-C2C	-2.70	102.96	106.89
22	a	6007	CLA	CHB-C4A-NA	2.70	128.30	124.40
22	B	1014	CLA	O2A-CGA-CBA	2.70	120.06	111.83
22	c	6025	CLA	O2A-CGA-CBA	2.70	120.06	111.83
22	B	1020	CLA	O2A-CGA-CBA	2.70	120.06	111.83
22	b	6014	CLA	O2A-CGA-CBA	2.70	120.06	111.83
22	A	1007	CLA	O2A-CGA-CBA	2.70	120.06	111.83
22	C	1025	CLA	CHB-C4A-NA	2.70	128.29	124.40
22	C	1029	CLA	O1D-CGD-CBD	-2.70	119.20	124.52
22	h	6017	CLA	O2A-CGA-CBA	2.69	120.05	111.83
23	a	6038	PHO	O1D-CGD-CBD	-2.69	120.64	124.72
22	b	6024	CLA	CHB-C4A-NA	2.69	128.29	124.40
22	C	1025	CLA	O2A-CGA-CBA	2.69	120.05	111.83
22	C	1033	CLA	O2A-CGA-CBA	2.69	120.04	111.83
22	b	6022	CLA	O2A-CGA-CBA	2.69	120.04	111.83
22	D	1008	CLA	CHB-C4A-NA	2.69	128.28	124.40
22	c	6029	CLA	O1D-CGD-CBD	-2.69	119.21	124.52
22	H	1017	CLA	O2A-CGA-CBA	2.69	120.03	111.83
22	c	6033	CLA	O2A-CGA-CBA	2.69	120.03	111.83
22	c	6027	CLA	O2A-CGA-CBA	2.69	120.03	111.83
22	C	1029	CLA	CHB-C4A-NA	2.69	128.28	124.40
22	H	1017	CLA	CHB-C4A-NA	2.69	128.28	124.40
22	C	1027	CLA	O2A-CGA-CBA	2.69	120.03	111.83
22	B	1016	CLA	O2A-CGA-CBA	2.69	120.03	111.83
22	a	6007	CLA	O2A-CGA-CBA	2.69	120.03	111.83
22	k	6034	CLA	O2A-CGA-CBA	2.69	120.03	111.83
22	d	6008	CLA	CHB-C4A-NA	2.69	128.28	124.40
22	a	6003	CLA	O2A-CGA-CBA	2.69	120.03	111.83
22	B	1019	CLA	O2A-CGA-CBA	2.69	120.03	111.83
22	C	1035	CLA	O2A-CGA-CBA	2.69	120.03	111.83
22	C	1028	CLA	O2A-CGA-CBA	2.69	120.02	111.83
22	b	6010	CLA	O2A-CGA-CBA	2.69	120.02	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	c	6028	CLA	O2A-CGA-CBA	2.69	120.02	111.83
22	B	1018	CLA	O2A-CGA-CBA	2.68	120.02	111.83
22	b	6016	CLA	O2A-CGA-CBA	2.68	120.02	111.83
22	b	6015	CLA	O2A-CGA-CBA	2.68	120.02	111.83
22	B	1018	CLA	CHB-C4A-NA	2.68	128.27	124.40
22	C	1028	CLA	CHB-C4A-NA	2.68	128.27	124.40
22	c	6035	CLA	O2A-CGA-CBA	2.68	120.02	111.83
22	b	6019	CLA	O2A-CGA-CBA	2.68	120.02	111.83
22	c	6029	CLA	CHB-C4A-NA	2.68	128.27	124.40
22	C	1030	CLA	C4-C3-C5	2.68	119.88	115.23
22	c	6026	CLA	CHB-C4A-NA	2.68	128.27	124.40
22	d	6008	CLA	O2A-CGA-CBA	2.68	120.01	111.83
22	D	1008	CLA	O2A-CGA-CBA	2.68	120.01	111.83
22	C	1032	CLA	O2A-CGA-CBA	2.68	120.01	111.83
22	c	6032	CLA	O2A-CGA-CBA	2.68	120.01	111.83
22	b	6013	CLA	CHB-C4A-NA	2.68	128.27	124.40
22	A	1003	CLA	O2A-CGA-CBA	2.68	120.00	111.83
22	B	1012	CLA	O2A-CGA-CBA	2.68	120.00	111.83
22	b	6013	CLA	O2A-CGA-CBA	2.68	120.00	111.83
22	D	1004	CLA	CHB-C4A-NA	2.68	128.26	124.40
22	C	1031	CLA	O2A-CGA-CBA	2.68	120.00	111.83
22	c	6031	CLA	O2A-CGA-CBA	2.68	120.00	111.83
22	B	1009	CLA	C4-C3-C5	2.68	119.88	115.23
22	b	6009	CLA	C4-C3-C5	2.68	119.87	115.23
22	B	1015	CLA	O2A-CGA-CBA	2.68	120.00	111.83
22	B	1022	CLA	O2A-CGA-CBA	2.68	120.00	111.83
22	B	1013	CLA	O2A-CGA-CBA	2.68	119.99	111.83
22	b	6010	CLA	CHB-C4A-NA	2.68	128.26	124.40
22	B	1010	CLA	O2A-CGA-CBA	2.68	119.99	111.83
22	K	1034	CLA	O2A-CGA-CBA	2.68	119.99	111.83
22	b	6012	CLA	O2A-CGA-CBA	2.67	119.99	111.83
22	D	1005	CLA	O2A-CGA-CBA	2.67	119.99	111.83
22	c	6026	CLA	O2A-CGA-CBA	2.67	119.99	111.83
23	A	1038	PHO	O1D-CGD-CBD	-2.67	120.67	124.72
22	c	6028	CLA	CHB-C4A-NA	2.67	128.26	124.40
22	B	1024	CLA	O2A-CGA-CBA	2.67	119.98	111.83
22	C	1026	CLA	O2A-CGA-CBA	2.67	119.98	111.83
22	B	1010	CLA	CHB-C4A-NA	2.67	128.25	124.40
22	C	1036	CLA	O2A-CGA-CBA	2.67	119.97	111.83
22	c	6030	CLA	C4-C3-C5	2.67	119.86	115.23
22	A	1006	CLA	O2A-CGA-CBA	2.67	119.97	111.83
22	d	6005	CLA	O2A-CGA-CBA	2.67	119.96	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	6024	CLA	O2A-CGA-CBA	2.67	119.96	111.83
22	d	6004	CLA	O2A-CGA-CBA	2.67	119.96	111.83
22	b	6018	CLA	O2A-CGA-CBA	2.67	119.96	111.83
22	b	6018	CLA	CHB-C4A-NA	2.66	128.25	124.40
22	d	6004	CLA	CHB-C4A-NA	2.66	128.25	124.40
22	D	1004	CLA	O2A-CGA-CBA	2.66	119.95	111.83
22	c	6036	CLA	O2A-CGA-CBA	2.66	119.95	111.83
22	b	6023	CLA	CHB-C4A-NA	2.66	128.24	124.40
22	b	6023	CLA	O2D-CGD-O1D	-2.65	118.68	123.85
22	a	6006	CLA	O2A-CGA-CBA	2.65	119.91	111.83
25	H	1049	BCR	C28-C27-C26	-2.65	109.33	114.06
22	B	1023	CLA	CHB-C4A-NA	2.65	128.22	124.40
22	C	1037	CLA	O2A-CGA-CBA	2.65	119.91	111.83
22	c	6037	CLA	O2A-CGA-CBA	2.65	119.90	111.83
23	D	1039	PHO	O1D-CGD-CBD	-2.64	120.71	124.72
25	C	1054	BCR	C28-C27-C26	-2.64	109.34	114.06
25	D	1050	BCR	C8-C7-C6	-2.64	119.94	127.00
22	B	1023	CLA	O2D-CGD-O1D	-2.64	118.71	123.85
25	c	6054	BCR	C28-C27-C26	-2.64	109.35	114.06
25	b	6047	BCR	C8-C7-C6	-2.63	119.96	127.00
25	h	6049	BCR	C28-C27-C26	-2.63	109.36	114.06
25	d	6050	BCR	C8-C7-C6	-2.63	119.97	127.00
25	K	1051	BCR	C23-C24-C25	-2.63	119.97	127.00
25	k	6051	BCR	C23-C24-C25	-2.63	119.98	127.00
25	k	6052	BCR	C8-C7-C6	-2.62	119.99	127.00
23	d	6039	PHO	O1D-CGD-CBD	-2.62	120.74	124.72
25	C	1054	BCR	C3-C4-C5	-2.62	109.38	114.06
25	B	1045	BCR	C8-C7-C6	-2.62	119.99	127.00
25	T	6048	BCR	C3-C4-C5	-2.62	109.38	114.06
25	h	6049	BCR	C8-C7-C6	-2.62	119.99	127.00
25	c	6054	BCR	C3-C4-C5	-2.62	109.38	114.06
25	C	1052	BCR	C8-C7-C6	-2.62	120.00	127.00
25	H	1049	BCR	C8-C7-C6	-2.62	120.00	127.00
25	D	1050	BCR	C23-C24-C25	-2.62	120.00	127.00
25	C	1054	BCR	C8-C7-C6	-2.62	120.00	127.00
25	b	6045	BCR	C28-C27-C26	-2.62	109.39	114.06
25	b	6045	BCR	C8-C7-C6	-2.62	120.00	127.00
25	T	6048	BCR	C8-C7-C6	-2.62	120.00	127.00
25	B	1048	BCR	C8-C7-C6	-2.62	120.01	127.00
25	B	1045	BCR	C23-C24-C25	-2.62	120.01	127.00
25	z	6053	BCR	C3-C4-C5	-2.62	109.39	114.06
25	z	6053	BCR	C8-C7-C6	-2.62	120.01	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	B	1047	BCR	C8-C7-C6	-2.61	120.01	127.00
25	K	1051	BCR	C8-C7-C6	-2.61	120.01	127.00
25	b	6045	BCR	C23-C24-C25	-2.61	120.01	127.00
25	B	1048	BCR	C3-C4-C5	-2.61	109.39	114.06
25	Z	1053	BCR	C23-C24-C25	-2.61	120.02	127.00
25	Z	1053	BCR	C8-C7-C6	-2.61	120.03	127.00
25	Z	1053	BCR	C3-C4-C5	-2.61	109.40	114.06
25	d	6050	BCR	C23-C24-C25	-2.61	120.03	127.00
25	k	6051	BCR	C8-C7-C6	-2.61	120.03	127.00
25	T	6048	BCR	C23-C24-C25	2.61	133.96	127.00
25	z	6053	BCR	C23-C24-C25	-2.60	120.04	127.00
25	B	1048	BCR	C23-C24-C25	2.60	133.94	127.00
25	c	6054	BCR	C8-C7-C6	-2.60	120.06	127.00
25	B	1045	BCR	C28-C27-C26	-2.60	109.43	114.06
22	b	6011	CLA	O2A-CGA-CBA	2.59	119.74	111.83
22	B	1011	CLA	O2A-CGA-CBA	2.59	119.74	111.83
25	k	6052	BCR	C3-C4-C5	-2.59	109.43	114.06
25	d	6050	BCR	C3-C4-C5	-2.59	109.44	114.06
25	D	1050	BCR	C3-C4-C5	-2.59	109.44	114.06
24	a	6043	PQ9	C6-C5-C4	2.59	120.57	115.28
25	B	1047	BCR	C23-C24-C25	2.58	133.90	127.00
25	C	1052	BCR	C3-C4-C5	-2.58	109.45	114.06
24	A	1043	PQ9	C6-C5-C4	2.58	120.56	115.28
25	b	6047	BCR	C3-C4-C5	-2.58	109.46	114.06
25	d	6050	BCR	C28-C27-C26	-2.57	109.47	114.06
25	D	1050	BCR	C28-C27-C26	-2.57	109.48	114.06
25	B	1047	BCR	C3-C4-C5	-2.57	109.48	114.06
25	b	6047	BCR	C23-C24-C25	2.57	133.85	127.00
25	B	1045	BCR	C3-C4-C5	-2.57	109.48	114.06
25	b	6045	BCR	C3-C4-C5	-2.56	109.49	114.06
25	h	6049	BCR	C3-C4-C5	-2.56	109.49	114.06
25	k	6052	BCR	C29-C30-C25	-2.56	106.72	110.44
25	H	1049	BCR	C3-C4-C5	-2.56	109.50	114.06
25	k	6051	BCR	C3-C4-C5	-2.56	109.50	114.06
25	K	1051	BCR	C3-C4-C5	-2.55	109.50	114.06
25	Z	1053	BCR	C28-C27-C26	-2.55	109.51	114.06
24	D	1042	PQ9	C6-C5-C4	2.55	120.49	115.28
22	c	6030	CLA	CAC-C3C-C4C	2.54	128.10	124.79
25	C	1052	BCR	C29-C30-C25	-2.54	106.75	110.44
22	C	1030	CLA	CAC-C3C-C4C	2.53	128.09	124.79
25	z	6053	BCR	C28-C27-C26	-2.53	109.54	114.06
24	d	6042	PQ9	C6-C5-C4	2.53	120.46	115.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	d	6005	CLA	O2D-CGD-O1D	-2.53	118.93	123.85
28	l	6061	MGE	C2G-O2G-C1B	-2.53	111.75	117.80
22	b	6024	CLA	O2D-CGD-O1D	-2.52	118.94	123.85
28	L	1061	MGE	C2G-O2G-C1B	-2.52	111.76	117.80
22	B	1024	CLA	O2D-CGD-O1D	-2.52	118.95	123.85
22	b	6018	CLA	O2D-CGD-O1D	-2.52	118.95	123.85
22	B	1009	CLA	O2A-CGA-O1A	-2.52	117.33	123.63
22	C	1036	CLA	O2D-CGD-O1D	-2.52	118.95	123.85
29	c	6055	DGD	C2G-O2G-C1B	-2.51	111.78	117.80
22	C	1037	CLA	O2D-CGD-O1D	-2.51	118.96	123.85
25	K	1051	BCR	C28-C27-C26	-2.51	109.57	114.06
22	B	1022	CLA	O2D-CGD-O1D	-2.51	118.96	123.85
29	C	1057	DGD	C2G-O2G-C1B	-2.51	111.78	117.80
29	C	1055	DGD	C2G-O2G-C1B	-2.51	111.78	117.80
29	B	1058	DGD	C2G-O2G-C1B	-2.51	111.79	117.80
22	D	1005	CLA	O2D-CGD-O1D	-2.51	118.96	123.85
28	b	6060	MGE	C2G-O2G-C1B	-2.51	111.79	117.80
22	C	1026	CLA	O2D-CGD-O1D	-2.51	118.97	123.85
22	C	1033	CLA	O2D-CGD-O1D	-2.51	118.97	123.85
26	a	6063	LHG	C5-O7-C7	-2.51	111.79	117.80
22	A	1006	CLA	O2D-CGD-O1D	-2.51	118.97	123.85
26	A	1063	LHG	C5-O7-C7	-2.51	111.80	117.80
22	b	6022	CLA	O2D-CGD-O1D	-2.51	118.97	123.85
22	c	6035	CLA	O2D-CGD-O1D	-2.51	118.97	123.85
22	c	6033	CLA	O2D-CGD-O1D	-2.50	118.97	123.85
22	C	1030	CLA	O2A-CGA-CBA	2.50	119.47	111.83
22	C	1027	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
28	B	1060	MGE	C2G-O2G-C1B	-2.50	111.81	117.80
22	B	1018	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
29	c	6056	DGD	C2G-O2G-C1B	-2.50	111.81	117.80
29	c	6057	DGD	C2G-O2G-C1B	-2.50	111.81	117.80
22	a	6006	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
25	k	6051	BCR	C28-C27-C26	-2.50	109.60	114.06
29	C	1056	DGD	C2G-O2G-C1B	-2.50	111.82	117.80
22	c	6036	CLA	O2D-CGD-O1D	-2.50	118.98	123.85
22	c	6030	CLA	O2A-CGA-CBA	2.50	119.45	111.83
22	K	1034	CLA	O2D-CGD-O1D	-2.50	118.99	123.85
22	B	1016	CLA	O2D-CGD-O1D	-2.50	118.99	123.85
22	a	6007	CLA	O2D-CGD-O1D	-2.50	118.99	123.85
22	c	6037	CLA	O2D-CGD-O1D	-2.50	118.99	123.85
22	b	6019	CLA	O2D-CGD-O1D	-2.50	118.99	123.85
29	b	6058	DGD	C2G-O2G-C1B	-2.49	111.83	117.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	b	6009	CLA	O2A-CGA-O1A	-2.49	117.39	123.63
22	C	1032	CLA	O2D-CGD-O1D	-2.49	118.99	123.85
22	a	6003	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
22	A	1003	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
22	b	6020	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
28	D	1059	MGE	C2G-O2G-C1B	-2.49	111.84	117.80
22	B	1012	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
22	B	1019	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
22	c	6026	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
22	b	6012	CLA	O2D-CGD-O1D	-2.49	119.00	123.85
28	d	6062	MGE	C2G-O2G-C1B	-2.49	111.85	117.80
22	B	1020	CLA	O2D-CGD-O1D	-2.48	119.01	123.85
22	k	6034	CLA	O2D-CGD-O1D	-2.48	119.01	123.85
22	C	1025	CLA	O2D-CGD-O1D	-2.48	119.01	123.85
22	C	1035	CLA	O2D-CGD-O1D	-2.48	119.02	123.85
28	D	1062	MGE	C2G-O2G-C1B	-2.48	111.86	117.80
22	c	6025	CLA	O2D-CGD-O1D	-2.48	119.02	123.85
22	A	1007	CLA	O2D-CGD-O1D	-2.48	119.02	123.85
28	d	6059	MGE	C2G-O2G-C1B	-2.48	111.86	117.80
22	b	6011	CLA	O2A-CGA-O1A	-2.48	117.43	123.63
22	c	6031	CLA	O2D-CGD-O1D	-2.48	119.03	123.85
22	c	6032	CLA	O2D-CGD-O1D	-2.48	119.03	123.85
22	D	1004	CLA	O2D-CGD-O1D	-2.48	119.03	123.85
22	b	6016	CLA	O2D-CGD-O1D	-2.47	119.03	123.85
22	c	6027	CLA	O2D-CGD-O1D	-2.47	119.03	123.85
22	B	1015	CLA	O2D-CGD-O1D	-2.47	119.03	123.85
22	B	1014	CLA	O2D-CGD-O1D	-2.47	119.03	123.85
22	C	1031	CLA	O2D-CGD-O1D	-2.47	119.04	123.85
22	b	6014	CLA	O2D-CGD-O1D	-2.47	119.04	123.85
22	B	1013	CLA	O2D-CGD-O1D	-2.47	119.04	123.85
22	b	6013	CLA	O2D-CGD-O1D	-2.47	119.04	123.85
22	H	1017	CLA	O2D-CGD-O1D	-2.47	119.05	123.85
22	d	6004	CLA	O2D-CGD-O1D	-2.47	119.05	123.85
22	h	6017	CLA	O2D-CGD-O1D	-2.47	119.05	123.85
22	b	6015	CLA	O2D-CGD-O1D	-2.46	119.05	123.85
22	B	1011	CLA	O2A-CGA-O1A	-2.46	117.48	123.63
22	D	1008	CLA	CMC-C2C-C1C	2.45	128.85	125.03
22	d	6008	CLA	CMC-C2C-C1C	2.44	128.85	125.03
22	b	6009	CLA	CHC-C1C-C2C	-2.44	120.01	126.95
22	C	1028	CLA	O2D-CGD-O1D	-2.44	119.10	123.85
22	B	1009	CLA	CHC-C1C-C2C	-2.44	120.03	126.95
23	A	1038	PHO	O2D-CGD-O1D	-2.43	119.11	123.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	D	1039	PHO	O2D-CGD-O1D	-2.42	119.14	123.85
23	a	6038	PHO	O2D-CGD-O1D	-2.42	119.14	123.85
22	c	6028	CLA	O2D-CGD-O1D	-2.42	119.14	123.85
22	b	6023	CLA	CMC-C2C-C1C	2.41	128.81	125.03
22	b	6021	CLA	O2D-CGD-O1D	-2.41	119.15	123.85
22	C	1030	CLA	CMC-C2C-C1C	2.41	128.80	125.03
22	B	1023	CLA	CMC-C2C-C1C	2.41	128.80	125.03
23	d	6039	PHO	O2D-CGD-O1D	-2.41	119.16	123.85
22	B	1021	CLA	O2D-CGD-O1D	-2.41	119.16	123.85
22	c	6030	CLA	CMC-C2C-C1C	2.41	128.79	125.03
25	h	6049	BCR	C23-C24-C25	-2.40	120.58	127.00
23	d	6039	PHO	CMA-C3A-C4A	-2.40	109.44	114.61
25	H	1049	BCR	C23-C24-C25	-2.40	120.59	127.00
25	t	1046	BCR	C28-C27-C26	-2.40	109.78	114.06
22	B	1021	CLA	O2A-CGA-CBA	2.40	119.14	111.83
23	D	1039	PHO	CMA-C3A-C4A	-2.39	109.45	114.61
22	B	1021	CLA	CMC-C2C-C1C	2.39	128.77	125.03
25	T	6046	BCR	C28-C27-C26	-2.39	109.80	114.06
22	b	6021	CLA	O2A-CGA-CBA	2.38	119.11	111.83
22	B	1010	CLA	CMC-C2C-C1C	2.38	128.75	125.03
25	c	6054	BCR	C23-C24-C25	-2.38	120.64	127.00
25	C	1054	BCR	C23-C24-C25	-2.38	120.64	127.00
22	b	6010	CLA	CMC-C2C-C1C	2.37	128.74	125.03
24	A	1043	PQ9	C45-C43-C44	2.37	120.05	114.59
24	a	6043	PQ9	C45-C43-C44	2.37	120.05	114.59
22	b	6021	CLA	CMC-C2C-C1C	2.37	128.74	125.03
22	b	6018	CLA	CMC-C2C-C1C	2.37	128.73	125.03
23	A	1038	PHO	CMA-C3A-C4A	-2.37	109.51	114.61
22	C	1029	CLA	CMC-C2C-C1C	2.36	128.72	125.03
23	a	6038	PHO	CMA-C3A-C4A	-2.36	109.53	114.61
22	B	1021	CLA	O2A-CGA-O1A	-2.36	117.73	123.63
22	k	6034	CLA	CMC-C2C-C1C	2.36	128.72	125.03
24	d	6042	PQ9	C45-C43-C44	2.35	120.00	114.59
22	b	6014	CLA	CMC-C2C-C1C	2.35	128.71	125.03
24	D	1042	PQ9	C45-C43-C44	2.35	120.00	114.59
22	D	1004	CLA	CMC-C2C-C1C	2.35	128.70	125.03
22	K	1034	CLA	CMC-C2C-C1C	2.35	128.70	125.03
25	T	6046	BCR	C23-C24-C25	-2.35	120.73	127.00
22	C	1037	CLA	CMC-C2C-C1C	2.35	128.70	125.03
22	b	6021	CLA	O2A-CGA-O1A	-2.35	117.76	123.63
22	d	6008	CLA	CHC-C1C-C2C	-2.34	120.29	126.95
25	t	1046	BCR	C23-C24-C25	-2.34	120.74	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	B	1012	CLA	CMC-C2C-C1C	2.34	128.69	125.03
22	a	6006	CLA	CMC-C2C-C1C	2.34	128.69	125.03
22	b	6023	CLA	CHC-C1C-C2C	-2.34	120.30	126.95
22	c	6029	CLA	CMC-C2C-C1C	2.34	128.69	125.03
22	D	1008	CLA	CHC-C1C-C2C	-2.34	120.30	126.95
22	c	6026	CLA	CMC-C2C-C1C	2.34	128.69	125.03
22	B	1018	CLA	CMC-C2C-C1C	2.34	128.69	125.03
31	V	1041	HEM	C3B-C2B-C1B	2.34	108.17	106.41
22	c	6031	CLA	CMC-C2C-C1C	2.34	128.69	125.03
22	d	6004	CLA	CMC-C2C-C1C	2.34	128.69	125.03
22	C	1026	CLA	CMC-C2C-C1C	2.34	128.69	125.03
22	A	1007	CLA	CMC-C2C-C1C	2.33	128.68	125.03
22	b	6012	CLA	CMC-C2C-C1C	2.33	128.68	125.03
22	c	6033	CLA	CMC-C2C-C1C	2.33	128.68	125.03
22	B	1021	CLA	CHC-C1C-C2C	-2.33	120.31	126.95
22	B	1014	CLA	CMC-C2C-C1C	2.33	128.68	125.03
22	b	6024	CLA	CMC-C2C-C1C	2.33	128.68	125.03
22	c	6027	CLA	CMC-C2C-C1C	2.33	128.68	125.03
22	B	1023	CLA	CHC-C1C-C2C	-2.33	120.32	126.95
22	c	6037	CLA	CMC-C2C-C1C	2.33	128.68	125.03
22	k	6034	CLA	CHC-C1C-C2C	-2.33	120.33	126.95
31	v	6041	HEM	C1B-NB-C4B	2.33	107.97	105.21
22	b	6022	CLA	CMC-C2C-C1C	2.33	128.67	125.03
22	b	6021	CLA	CHC-C1C-C2C	-2.33	120.33	126.95
22	B	1016	CLA	CMC-C2C-C1C	2.33	128.67	125.03
22	B	1010	CLA	CHC-C1C-C2C	-2.33	120.34	126.95
22	b	6010	CLA	CHC-C1C-C2C	-2.33	120.34	126.95
22	a	6007	CLA	CMC-C2C-C1C	2.33	128.67	125.03
22	c	6032	CLA	CMC-C2C-C1C	2.33	128.67	125.03
22	B	1009	CLA	O1D-CGD-CBD	-2.32	119.93	124.52
22	C	1033	CLA	CMC-C2C-C1C	2.32	128.66	125.03
22	D	1005	CLA	CMC-C2C-C1C	2.32	128.66	125.03
22	B	1022	CLA	CMC-C2C-C1C	2.32	128.66	125.03
22	C	1032	CLA	CMC-C2C-C1C	2.32	128.66	125.03
22	b	6020	CLA	CMC-C2C-C1C	2.32	128.66	125.03
22	C	1029	CLA	CHC-C1C-C2C	-2.32	120.35	126.95
22	C	1025	CLA	CMC-C2C-C1C	2.32	128.66	125.03
22	C	1035	CLA	CMC-C2C-C1C	2.32	128.66	125.03
22	a	6003	CLA	CMC-C2C-C1C	2.32	128.66	125.03
22	c	6027	CLA	CHC-C1C-C2C	-2.32	120.36	126.95
22	a	6007	CLA	CHC-C1C-C2C	-2.32	120.36	126.95
22	H	1017	CLA	CMC-C2C-C1C	2.32	128.65	125.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	c	6035	CLA	CMC-C2C-C1C	2.32	128.65	125.03
22	B	1024	CLA	CMC-C2C-C1C	2.32	128.65	125.03
22	d	6005	CLA	CMC-C2C-C1C	2.32	128.65	125.03
22	A	1003	CLA	CMC-C2C-C1C	2.32	128.65	125.03
22	b	6012	CLA	CHC-C1C-C2C	-2.31	120.37	126.95
22	h	6017	CLA	CMC-C2C-C1C	2.31	128.65	125.03
22	B	1022	CLA	CHC-C1C-C2C	-2.31	120.37	126.95
22	B	1020	CLA	CMC-C2C-C1C	2.31	128.65	125.03
22	B	1012	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
22	K	1034	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
22	b	6022	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
22	c	6031	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
22	A	1006	CLA	CMC-C2C-C1C	2.31	128.65	125.03
22	c	6028	CLA	CMC-C2C-C1C	2.31	128.65	125.03
22	C	1033	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
22	a	6003	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
22	c	6033	CLA	CHC-C1C-C2C	-2.31	120.38	126.95
22	A	1007	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
22	B	1011	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
22	B	1013	CLA	CMC-C2C-C1C	2.31	128.64	125.03
22	C	1028	CLA	CMC-C2C-C1C	2.31	128.64	125.03
22	C	1027	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
22	b	6018	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
22	b	6011	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
22	B	1019	CLA	CMC-C2C-C1C	2.31	128.64	125.03
22	b	6020	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
22	c	6029	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
22	C	1027	CLA	CMC-C2C-C1C	2.31	128.64	125.03
22	C	1036	CLA	CMC-C2C-C1C	2.31	128.64	125.03
22	b	6019	CLA	CMC-C2C-C1C	2.31	128.64	125.03
22	c	6036	CLA	CMC-C2C-C1C	2.31	128.64	125.03
22	B	1014	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
22	a	6006	CLA	CHC-C1C-C2C	-2.31	120.39	126.95
22	b	6013	CLA	CMC-C2C-C1C	2.31	128.64	125.03
22	C	1026	CLA	CHC-C1C-C2C	-2.31	120.40	126.95
22	b	6019	CLA	CHC-C1C-C2C	-2.31	120.40	126.95
22	c	6025	CLA	CHC-C1C-C2C	-2.31	120.40	126.95
22	b	6016	CLA	CMC-C2C-C1C	2.31	128.64	125.03
22	B	1023	CLA	O2A-CGA-CBA	2.30	118.86	111.83
31	v	6041	HEM	C3B-C2B-C1B	2.30	108.14	106.41
22	b	6014	CLA	CHC-C1C-C2C	-2.30	120.40	126.95
22	C	1025	CLA	CHC-C1C-C2C	-2.30	120.40	126.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	c	6026	CLA	CHC-C1C-C2C	-2.30	120.40	126.95
22	d	6005	CLA	CHC-C1C-C2C	-2.30	120.40	126.95
22	b	6009	CLA	O1D-CGD-CBD	-2.30	119.98	124.52
22	c	6036	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
22	B	1020	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
22	D	1005	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
22	b	6024	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
22	C	1031	CLA	CMC-C2C-C1C	2.30	128.63	125.03
22	A	1003	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
22	B	1016	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
22	b	6015	CLA	CMC-C2C-C1C	2.30	128.63	125.03
22	C	1031	CLA	CHC-C1C-C2C	-2.30	120.41	126.95
31	V	1041	HEM	C1B-NB-C4B	2.30	107.93	105.21
22	B	1018	CLA	CHC-C1C-C2C	-2.30	120.42	126.95
22	b	6013	CLA	CHC-C1C-C2C	-2.30	120.42	126.95
22	B	1013	CLA	CHC-C1C-C2C	-2.30	120.42	126.95
22	b	6023	CLA	O2A-CGA-CBA	2.30	118.84	111.83
22	C	1036	CLA	CHC-C1C-C2C	-2.30	120.42	126.95
22	c	6025	CLA	CMC-C2C-C1C	2.30	128.62	125.03
22	b	6015	CLA	CHC-C1C-C2C	-2.30	120.42	126.95
31	F	1040	HEM	C1B-NB-C4B	2.30	107.92	105.21
22	C	1032	CLA	CHC-C1C-C2C	-2.29	120.43	126.95
22	B	1019	CLA	CHC-C1C-C2C	-2.29	120.43	126.95
22	A	1006	CLA	CHC-C1C-C2C	-2.29	120.43	126.95
22	D	1004	CLA	CHC-C1C-C2C	-2.29	120.43	126.95
22	H	1017	CLA	CHC-C1C-C2C	-2.29	120.43	126.95
22	C	1035	CLA	CHC-C1C-C2C	-2.29	120.44	126.95
22	c	6032	CLA	CHC-C1C-C2C	-2.29	120.44	126.95
22	c	6028	CLA	CHC-C1C-C2C	-2.29	120.44	126.95
22	C	1028	CLA	CHC-C1C-C2C	-2.29	120.44	126.95
22	B	1024	CLA	CHC-C1C-C2C	-2.29	120.45	126.95
22	h	6017	CLA	CHC-C1C-C2C	-2.29	120.45	126.95
22	B	1015	CLA	CHC-C1C-C2C	-2.29	120.45	126.95
22	B	1015	CLA	CMC-C2C-C1C	2.28	128.60	125.03
22	b	6010	CLA	CHB-C1B-NB	-2.28	120.63	124.05
22	b	6016	CLA	CHC-C1C-C2C	-2.28	120.46	126.95
31	f	6040	HEM	C1B-NB-C4B	2.28	107.91	105.21
22	c	6035	CLA	CHC-C1C-C2C	-2.28	120.47	126.95
22	d	6004	CLA	CHC-C1C-C2C	-2.28	120.47	126.95
22	B	1010	CLA	CHB-C1B-NB	-2.28	120.63	124.05
22	b	6009	CLA	CMC-C2C-C1C	2.27	128.59	125.03
22	c	6037	CLA	CHC-C1C-C2C	-2.27	120.49	126.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	C	1030	CLA	O1D-CGD-CBD	-2.27	120.04	124.52
22	c	6030	CLA	O1D-CGD-CBD	-2.27	120.04	124.52
31	F	1040	HEM	C3B-C2B-C1B	2.27	108.11	106.41
22	C	1037	CLA	CHC-C1C-C2C	-2.27	120.50	126.95
22	C	1030	CLA	CHC-C1C-C2C	-2.26	120.52	126.95
31	f	6040	HEM	C3B-C2B-C1B	2.26	108.11	106.41
22	B	1009	CLA	CMC-C2C-C1C	2.25	128.56	125.03
31	v	6041	HEM	C3B-C4B-NB	-2.25	107.85	109.47
22	c	6030	CLA	CHC-C1C-C2C	-2.25	120.55	126.95
22	b	6011	CLA	CMC-C2C-C1C	2.24	128.53	125.03
22	B	1011	CLA	CMC-C2C-C1C	2.23	128.52	125.03
25	A	1044	BCR	C1-C6-C5	-2.23	119.59	122.64
25	b	6047	BCR	C24-C25-C26	-2.22	116.43	121.56
22	C	1030	CLA	O2A-CGA-O1A	-2.22	118.07	123.63
31	V	1041	HEM	C3B-C4B-NB	-2.21	107.88	109.47
25	a	6044	BCR	C1-C6-C5	-2.21	119.61	122.64
25	B	1047	BCR	C24-C25-C26	-2.21	116.46	121.56
22	B	1010	CLA	O1D-CGD-CBD	-2.20	120.17	124.52
22	c	6030	CLA	O2A-CGA-O1A	-2.20	118.12	123.63
22	b	6010	CLA	O1D-CGD-CBD	-2.20	120.19	124.52
25	T	6048	BCR	C24-C25-C26	-2.19	116.51	121.56
22	b	6023	CLA	O2A-CGA-O1A	-2.19	118.15	123.63
22	B	1023	CLA	O2A-CGA-O1A	-2.19	118.16	123.63
25	t	1046	BCR	C8-C7-C6	-2.18	121.16	127.00
25	B	1048	BCR	C24-C25-C26	-2.18	116.53	121.56
22	c	6029	CLA	O2A-CGA-O1A	-2.18	118.17	123.63
31	F	1040	HEM	C3B-C4B-NB	-2.18	107.90	109.47
22	C	1029	CLA	O2A-CGA-O1A	-2.17	118.20	123.63
22	D	1008	CLA	CHB-C1B-NB	-2.17	120.80	124.05
25	T	6046	BCR	C8-C7-C6	-2.16	121.23	127.00
25	a	6044	BCR	C27-C26-C25	-2.16	119.79	122.70
24	d	6042	PQ9	C41-C42-C43	-2.16	120.45	127.64
22	B	1023	CLA	O1D-CGD-CBD	-2.15	120.27	124.52
22	d	6008	CLA	CHB-C1B-NB	-2.15	120.82	124.05
22	b	6021	CLA	O1D-CGD-CBD	-2.15	120.28	124.52
25	A	1044	BCR	C27-C26-C25	-2.15	119.80	122.70
22	b	6009	CLA	CHB-C1B-NB	-2.15	120.83	124.05
22	b	6023	CLA	O1D-CGD-CBD	-2.14	120.29	124.52
24	A	1043	PQ9	C41-C42-C43	-2.14	120.49	127.64
24	a	6043	PQ9	C41-C42-C43	-2.14	120.50	127.64
24	D	1042	PQ9	C41-C42-C43	-2.14	120.50	127.64
31	f	6040	HEM	C3B-C4B-NB	-2.14	107.93	109.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	T	6046	BCR	C2-C1-C6	-2.14	107.33	110.44
22	B	1021	CLA	O1D-CGD-CBD	-2.14	120.30	124.52
25	a	6044	BCR	C29-C30-C25	-2.14	107.34	110.44
22	B	1009	CLA	O2A-CGA-CBA	2.13	118.33	111.83
25	a	6044	BCR	C4-C5-C6	-2.13	119.83	122.70
25	C	1052	BCR	C24-C25-C26	2.13	126.45	121.56
22	b	6009	CLA	O2A-CGA-CBA	2.13	118.32	111.83
31	v	6041	HEM	C2A-C1A-NA	-2.12	107.80	110.15
22	c	6030	CLA	CHB-C1B-NB	-2.12	120.86	124.05
25	t	1046	BCR	C2-C1-C6	-2.12	107.36	110.44
25	A	1044	BCR	C29-C30-C25	-2.12	107.36	110.44
22	C	1030	CLA	CHB-C1B-NB	-2.12	120.87	124.05
25	A	1044	BCR	C4-C5-C6	-2.12	119.84	122.70
25	T	6048	BCR	C27-C26-C25	-2.11	119.85	122.70
22	c	6037	CLA	CHB-C1B-NB	-2.11	120.89	124.05
25	k	6052	BCR	C24-C25-C26	2.11	126.41	121.56
22	C	1037	CLA	CHB-C1B-NB	-2.10	120.90	124.05
22	c	6037	CLA	O1D-CGD-CBD	-2.10	120.38	124.52
22	b	6014	CLA	CHB-C1B-NB	-2.10	120.91	124.05
22	B	1009	CLA	CHB-C1B-NB	-2.09	120.91	124.05
22	c	6032	CLA	CHB-C1B-NB	-2.09	120.91	124.05
25	t	1046	BCR	C36-C18-C17	-2.09	119.43	122.82
22	C	1037	CLA	O1D-CGD-CBD	-2.09	120.40	124.52
31	F	1040	HEM	C2A-C1A-NA	-2.09	107.83	110.15
22	a	6006	CLA	O1D-CGD-CBD	-2.09	120.40	124.52
22	C	1035	CLA	CHB-C1B-NB	-2.08	120.92	124.05
22	d	6004	CLA	O1D-CGD-CBD	-2.08	120.41	124.52
22	b	6024	CLA	CHB-C1B-NB	-2.08	120.92	124.05
22	A	1006	CLA	CHB-C1B-NB	-2.08	120.93	124.05
22	b	6019	CLA	CHB-C1B-NB	-2.08	120.93	124.05
22	k	6034	CLA	CHB-C1B-NB	-2.08	120.93	124.05
22	a	6006	CLA	CHB-C1B-NB	-2.08	120.93	124.05
22	A	1006	CLA	O1D-CGD-CBD	-2.08	120.42	124.52
31	V	1041	HEM	C2A-C1A-NA	-2.08	107.85	110.15
22	B	1019	CLA	CHB-C1B-NB	-2.08	120.93	124.05
22	c	6035	CLA	CHB-C1B-NB	-2.08	120.93	124.05
22	B	1020	CLA	CHB-C1B-NB	-2.08	120.94	124.05
22	c	6035	CLA	O1D-CGD-CBD	-2.08	120.42	124.52
22	K	1034	CLA	CHB-C1B-NB	-2.08	120.94	124.05
22	b	6020	CLA	CHB-C1B-NB	-2.08	120.94	124.05
22	C	1032	CLA	CHB-C1B-NB	-2.07	120.94	124.05
22	a	6007	CLA	CHB-C1B-NB	-2.07	120.94	124.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	k	6034	CLA	O1D-CGD-CBD	-2.07	120.43	124.52
22	C	1035	CLA	O1D-CGD-CBD	-2.07	120.43	124.52
25	T	6046	BCR	C36-C18-C17	-2.07	119.46	122.82
22	K	1034	CLA	O1D-CGD-CBD	-2.07	120.43	124.52
25	B	1048	BCR	C27-C26-C25	-2.07	119.91	122.70
22	B	1014	CLA	CHB-C1B-NB	-2.07	120.95	124.05
22	b	6018	CLA	CHB-C1B-NB	-2.07	120.95	124.05
22	D	1004	CLA	O1D-CGD-CBD	-2.07	120.44	124.52
22	c	6026	CLA	O1D-CGD-CBD	-2.07	120.44	124.52
22	B	1018	CLA	CHB-C1B-NB	-2.07	120.95	124.05
22	B	1024	CLA	CHB-C1B-NB	-2.07	120.95	124.05
22	b	6021	CLA	CHB-C1B-NB	-2.06	120.95	124.05
22	B	1021	CLA	CHB-C1B-NB	-2.06	120.95	124.05
31	f	6040	HEM	C2A-C1A-NA	-2.06	107.86	110.15
22	c	6027	CLA	O1D-CGD-CBD	-2.06	120.45	124.52
22	b	6020	CLA	O1D-CGD-CBD	-2.06	120.45	124.52
22	c	6027	CLA	CHB-C1B-NB	-2.06	120.96	124.05
25	T	6046	BCR	C27-C26-C25	-2.06	119.92	122.70
22	C	1031	CLA	CHB-C1B-NB	-2.06	120.96	124.05
22	B	1022	CLA	CHB-C1B-NB	-2.06	120.96	124.05
22	b	6016	CLA	CHB-C1B-NB	-2.06	120.96	124.05
22	b	6021	CLA	CAA-CBA-CGA	-2.06	107.37	113.21
22	d	6008	CLA	O2A-CGA-O1A	-2.06	118.48	123.63
22	H	1017	CLA	CHB-C1B-NB	-2.06	120.96	124.05
22	C	1027	CLA	O1D-CGD-CBD	-2.06	120.46	124.52
22	B	1013	CLA	CHB-C1B-NB	-2.06	120.96	124.05
22	C	1027	CLA	CHB-C1B-NB	-2.06	120.96	124.05
22	D	1008	CLA	O2A-CGA-O1A	-2.06	118.48	123.63
25	t	1046	BCR	C27-C26-C25	-2.06	119.93	122.70
22	C	1026	CLA	CHB-C1B-NB	-2.06	120.97	124.05
22	c	6031	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
22	B	1016	CLA	CHB-C1B-NB	-2.05	120.97	124.05
22	B	1022	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
22	b	6022	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
22	B	1020	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
22	B	1018	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
22	C	1026	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
22	c	6036	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
22	B	1015	CLA	CHB-C1B-NB	-2.05	120.97	124.05
22	h	6017	CLA	O1D-CGD-CBD	-2.05	120.47	124.52
22	h	6017	CLA	CHB-C1B-NB	-2.05	120.97	124.05
25	A	1044	BCR	C8-C7-C6	-2.05	121.52	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	b	6047	BCR	C27-C26-C25	-2.05	119.93	122.70
22	b	6013	CLA	CHB-C1B-NB	-2.05	120.97	124.05
22	D	1005	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
22	C	1036	CLA	CHB-C1B-NB	-2.05	120.97	124.05
22	B	1014	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
25	T	6046	BCR	C1-C6-C7	2.05	121.20	115.65
22	b	6018	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
25	a	6044	BCR	C8-C7-C6	-2.05	121.53	127.00
22	b	6016	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
22	c	6025	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
22	B	1016	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
22	H	1017	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
22	a	6007	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
22	A	1007	CLA	CHB-C1B-NB	-2.05	120.98	124.05
22	C	1025	CLA	CHB-C1B-NB	-2.05	120.98	124.05
22	b	6015	CLA	O1D-CGD-CBD	-2.05	120.48	124.52
22	C	1032	CLA	O1D-CGD-CBD	-2.04	120.48	124.52
22	B	1013	CLA	O1D-CGD-CBD	-2.04	120.49	124.52
22	b	6013	CLA	O1D-CGD-CBD	-2.04	120.49	124.52
25	B	1047	BCR	C27-C26-C25	-2.04	119.94	122.70
22	a	6003	CLA	CHB-C1B-NB	-2.04	120.98	124.05
22	B	1021	CLA	CAA-CBA-CGA	-2.04	107.41	113.21
22	C	1033	CLA	CHB-C1B-NB	-2.04	120.98	124.05
22	b	6015	CLA	CHB-C1B-NB	-2.04	120.98	124.05
22	b	6022	CLA	CHB-C1B-NB	-2.04	120.98	124.05
22	c	6029	CLA	CHB-C1B-NB	-2.04	120.98	124.05
22	c	6036	CLA	CHB-C1B-NB	-2.04	120.98	124.05
22	B	1012	CLA	CHB-C1B-NB	-2.04	120.99	124.05
25	c	6054	BCR	C4-C5-C6	-2.04	119.94	122.70
22	A	1007	CLA	O1D-CGD-CBD	-2.04	120.49	124.52
25	t	1046	BCR	C1-C6-C7	2.04	121.19	115.65
22	C	1029	CLA	CHB-C1B-NB	-2.04	120.99	124.05
22	B	1024	CLA	O1D-CGD-CBD	-2.04	120.49	124.52
22	c	6032	CLA	O1D-CGD-CBD	-2.04	120.49	124.52
22	d	6005	CLA	O1D-CGD-CBD	-2.04	120.49	124.52
25	Z	1053	BCR	C4-C5-C6	-2.04	119.95	122.70
22	c	6031	CLA	CHB-C1B-NB	-2.04	120.99	124.05
22	A	1003	CLA	CHB-C1B-NB	-2.04	120.99	124.05
22	c	6028	CLA	CHB-C1B-NB	-2.04	120.99	124.05
25	C	1054	BCR	C4-C5-C6	-2.04	119.95	122.70
22	D	1005	CLA	CHB-C1B-NB	-2.04	120.99	124.05
22	D	1004	CLA	CHB-C1B-NB	-2.04	120.99	124.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	d	6004	CLA	CHB-C1B-NB	-2.04	120.99	124.05
22	b	6014	CLA	O1D-CGD-CBD	-2.04	120.50	124.52
22	b	6023	CLA	CHB-C1B-NB	-2.04	121.00	124.05
25	b	6047	BCR	C4-C5-C6	-2.04	119.95	122.70
22	C	1028	CLA	CHB-C1B-NB	-2.03	121.00	124.05
25	z	6053	BCR	C27-C26-C25	-2.03	119.95	122.70
25	z	6053	BCR	C4-C5-C6	-2.03	119.96	122.70
22	C	1036	CLA	O1D-CGD-CBD	-2.03	120.51	124.52
22	d	6005	CLA	CHB-C1B-NB	-2.03	121.00	124.05
22	C	1025	CLA	O1D-CGD-CBD	-2.03	120.51	124.52
22	c	6026	CLA	CHB-C1B-NB	-2.03	121.00	124.05
22	B	1019	CLA	O1D-CGD-CBD	-2.03	120.51	124.52
22	C	1031	CLA	O1D-CGD-CBD	-2.03	120.51	124.52
25	B	1048	BCR	C4-C5-C6	-2.03	119.96	122.70
22	b	6011	CLA	CED-O2D-CGD	2.03	120.52	115.92
22	b	6012	CLA	CHB-C1B-NB	-2.03	121.00	124.05
22	c	6033	CLA	CHB-C1B-NB	-2.03	121.00	124.05
22	b	6019	CLA	O1D-CGD-CBD	-2.03	120.52	124.52
22	B	1015	CLA	O1D-CGD-CBD	-2.03	120.52	124.52
22	B	1023	CLA	CHB-C1B-NB	-2.03	121.01	124.05
22	b	6010	CLA	O2A-CGA-O1A	-2.02	118.56	123.63
22	b	6024	CLA	O1D-CGD-CBD	-2.02	120.53	124.52
22	B	1011	CLA	CED-O2D-CGD	2.02	120.50	115.92
25	T	6048	BCR	C4-C5-C6	-2.02	119.97	122.70
22	A	1003	CLA	O1D-CGD-CBD	-2.02	120.53	124.52
25	d	6050	BCR	C4-C5-C6	-2.02	119.98	122.70
22	C	1033	CLA	O1D-CGD-CBD	-2.02	120.54	124.52
25	D	1050	BCR	C4-C5-C6	-2.02	119.98	122.70
22	B	1012	CLA	O1D-CGD-CBD	-2.01	120.55	124.52
22	c	6028	CLA	O1D-CGD-CBD	-2.01	120.55	124.52
22	B	1010	CLA	O2A-CGA-O1A	-2.01	118.60	123.63
25	B	1045	BCR	C27-C26-C25	-2.01	119.99	122.70
22	b	6011	CLA	CHB-C1B-NB	-2.01	121.03	124.05
22	c	6025	CLA	CHB-C1B-NB	-2.01	121.03	124.05
22	c	6033	CLA	O1D-CGD-CBD	-2.01	120.56	124.52
22	B	1011	CLA	CHB-C1B-NB	-2.01	121.04	124.05
22	a	6003	CLA	O1D-CGD-CBD	-2.01	120.56	124.52
22	b	6012	CLA	O1D-CGD-CBD	-2.01	120.56	124.52
25	D	1050	BCR	C27-C26-C25	-2.00	120.00	122.70

All (92) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
22	A	1003	CLA	C8
22	A	1006	CLA	C8
22	B	1009	CLA	CBD
22	B	1010	CLA	C8
22	B	1011	CLA	CBD
22	B	1011	CLA	C8
22	B	1012	CLA	C8
22	B	1013	CLA	C8
22	B	1014	CLA	C8
22	B	1015	CLA	C8
22	B	1018	CLA	C8
22	B	1019	CLA	C13
22	B	1020	CLA	C13
22	B	1020	CLA	C8
22	B	1021	CLA	C8
22	B	1022	CLA	C13
22	B	1022	CLA	CBD
22	B	1023	CLA	C13
22	B	1023	CLA	C8
22	C	1025	CLA	C8
22	C	1027	CLA	C13
22	C	1027	CLA	C8
22	C	1028	CLA	C8
22	C	1029	CLA	C3A
22	C	1029	CLA	C8
22	C	1030	CLA	C8
22	C	1031	CLA	C8
22	C	1032	CLA	C13
22	C	1032	CLA	C8
22	C	1033	CLA	C8
22	C	1035	CLA	C8
22	C	1036	CLA	C8
22	C	1037	CLA	C8
22	D	1005	CLA	C8
22	D	1004	CLA	C8
22	D	1008	CLA	C3A
22	D	1008	CLA	C8
22	H	1017	CLA	C8
22	K	1034	CLA	C3A
22	K	1034	CLA	C2A
22	K	1034	CLA	C8
22	K	1034	CLA	C13
22	a	6003	CLA	C8

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Mol	Chain	Res	Type	Atom
22	a	6006	CLA	C8
22	b	6009	CLA	CBD
22	b	6010	CLA	C8
22	b	6011	CLA	CBD
22	b	6011	CLA	C8
22	b	6012	CLA	C8
22	b	6013	CLA	C8
22	b	6014	CLA	C8
22	b	6015	CLA	C8
22	b	6018	CLA	C8
22	b	6019	CLA	C13
22	b	6020	CLA	C13
22	b	6020	CLA	C8
22	b	6021	CLA	C8
22	b	6022	CLA	C13
22	b	6022	CLA	CBD
22	b	6023	CLA	C13
22	b	6023	CLA	C8
22	c	6025	CLA	C8
22	c	6027	CLA	C13
22	c	6027	CLA	C8
22	c	6028	CLA	C8
22	c	6029	CLA	C3A
22	c	6029	CLA	C8
22	c	6030	CLA	C8
22	c	6031	CLA	C8
22	c	6032	CLA	C13
22	c	6032	CLA	C8
22	c	6033	CLA	C8
22	c	6035	CLA	C8
22	c	6036	CLA	C8
22	c	6037	CLA	C8
22	d	6005	CLA	C8
22	d	6004	CLA	C8
22	d	6008	CLA	C3A
22	d	6008	CLA	C8
22	h	6017	CLA	C8
22	k	6034	CLA	C3A
22	k	6034	CLA	C2A
22	k	6034	CLA	C8
22	k	6034	CLA	C13
23	A	1038	PHO	C8

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Mol	Chain	Res	Type	Atom
23	D	1039	PHO	C3A
23	D	1039	PHO	C13
23	D	1039	PHO	C8
23	a	6038	PHO	C8
23	d	6039	PHO	C3A
23	d	6039	PHO	C13
23	d	6039	PHO	C8

All (2320) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	A	1003	CLA	C1A-C2A-CAA-CBA
22	A	1003	CLA	C2B-C3B-CAB-CBB
22	A	1003	CLA	C4B-C3B-CAB-CBB
22	A	1003	CLA	CBD-CGD-O2D-CED
22	A	1003	CLA	O1D-CGD-O2D-CED
22	A	1006	CLA	C1A-C2A-CAA-CBA
22	A	1006	CLA	C4C-C3C-CAC-CBC
22	A	1007	CLA	C1A-C2A-CAA-CBA
22	A	1007	CLA	C2B-C3B-CAB-CBB
22	A	1007	CLA	C4B-C3B-CAB-CBB
22	A	1007	CLA	CBD-CGD-O2D-CED
22	A	1007	CLA	C11-C10-C8-C7
22	A	1007	CLA	C11-C12-C13-C14
22	B	1009	CLA	C1A-C2A-CAA-CBA
22	B	1009	CLA	C3A-C2A-CAA-CBA
22	B	1009	CLA	CBD-CGD-O2D-CED
22	B	1009	CLA	O1D-CGD-O2D-CED
22	B	1011	CLA	C3A-C2A-CAA-CBA
22	B	1011	CLA	CBD-CGD-O2D-CED
22	B	1012	CLA	C2B-C3B-CAB-CBB
22	B	1012	CLA	C4B-C3B-CAB-CBB
22	B	1012	CLA	CBD-CGD-O2D-CED
22	B	1013	CLA	C4B-C3B-CAB-CBB
22	B	1013	CLA	CHA-CBD-CGD-O1D
22	B	1013	CLA	CHA-CBD-CGD-O2D
22	B	1013	CLA	CBD-CGD-O2D-CED
22	B	1013	CLA	C14-C13-C15-C16
22	B	1014	CLA	C1A-C2A-CAA-CBA
22	B	1014	CLA	C2B-C3B-CAB-CBB
22	B	1014	CLA	C4B-C3B-CAB-CBB
22	B	1014	CLA	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
22	B	1014	CLA	CBD-CGD-O2D-CED
22	B	1015	CLA	C1A-C2A-CAA-CBA
22	B	1015	CLA	C3A-C2A-CAA-CBA
22	B	1015	CLA	CAD-CBD-CGD-O1D
22	B	1015	CLA	CAD-CBD-CGD-O2D
22	B	1015	CLA	CBD-CGD-O2D-CED
22	B	1016	CLA	C2B-C3B-CAB-CBB
22	B	1016	CLA	C4B-C3B-CAB-CBB
22	B	1016	CLA	CBD-CGD-O2D-CED
22	B	1016	CLA	C6-C7-C8-C9
22	B	1018	CLA	CHA-CBD-CGD-O2D
22	B	1019	CLA	C1A-C2A-CAA-CBA
22	B	1019	CLA	C3A-C2A-CAA-CBA
22	B	1019	CLA	CAD-CBD-CGD-O1D
22	B	1019	CLA	CAD-CBD-CGD-O2D
22	B	1020	CLA	C1A-C2A-CAA-CBA
22	B	1020	CLA	C3A-C2A-CAA-CBA
22	B	1020	CLA	C2B-C3B-CAB-CBB
22	B	1020	CLA	C4B-C3B-CAB-CBB
22	B	1020	CLA	CHA-CBD-CGD-O2D
22	B	1020	CLA	C11-C10-C8-C9
22	B	1021	CLA	CHA-CBD-CGD-O1D
22	B	1021	CLA	CHA-CBD-CGD-O2D
22	B	1021	CLA	CBD-CGD-O2D-CED
22	B	1022	CLA	CBD-CGD-O2D-CED
22	B	1023	CLA	CAD-CBD-CGD-O1D
22	B	1023	CLA	CAD-CBD-CGD-O2D
22	B	1024	CLA	C2B-C3B-CAB-CBB
22	B	1024	CLA	C4B-C3B-CAB-CBB
22	C	1025	CLA	C3A-C2A-CAA-CBA
22	C	1025	CLA	CAD-CBD-CGD-O1D
22	C	1025	CLA	CAD-CBD-CGD-O2D
22	C	1025	CLA	CBD-CGD-O2D-CED
22	C	1026	CLA	C2-C1-O2A-CGA
22	C	1026	CLA	C2B-C3B-CAB-CBB
22	C	1026	CLA	C4B-C3B-CAB-CBB
22	C	1026	CLA	CBD-CGD-O2D-CED
22	C	1026	CLA	C11-C12-C13-C14
22	C	1027	CLA	CBD-CGD-O2D-CED
22	C	1027	CLA	O1D-CGD-O2D-CED
22	C	1028	CLA	CAD-CBD-CGD-O1D
22	C	1028	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
22	C	1030	CLA	C2C-C3C-CAC-CBC
22	C	1030	CLA	C4C-C3C-CAC-CBC
22	C	1030	CLA	CBD-CGD-O2D-CED
22	C	1030	CLA	O1D-CGD-O2D-CED
22	C	1030	CLA	C4-C3-C5-C6
22	C	1031	CLA	C2C-C3C-CAC-CBC
22	C	1031	CLA	C4C-C3C-CAC-CBC
22	C	1031	CLA	CHA-CBD-CGD-O2D
22	C	1032	CLA	C1A-C2A-CAA-CBA
22	C	1032	CLA	C3A-C2A-CAA-CBA
22	C	1033	CLA	C2-C1-O2A-CGA
22	C	1033	CLA	CAD-CBD-CGD-O2D
22	C	1033	CLA	CBD-CGD-O2D-CED
22	C	1035	CLA	C1A-C2A-CAA-CBA
22	C	1035	CLA	C3A-C2A-CAA-CBA
22	C	1036	CLA	C1A-C2A-CAA-CBA
22	C	1036	CLA	CAD-CBD-CGD-O1D
22	C	1036	CLA	C12-C13-C15-C16
22	C	1037	CLA	C3A-C2A-CAA-CBA
22	C	1037	CLA	C4C-C3C-CAC-CBC
22	D	1005	CLA	C1A-C2A-CAA-CBA
22	D	1005	CLA	C3A-C2A-CAA-CBA
22	D	1004	CLA	CAD-CBD-CGD-O2D
22	D	1008	CLA	CBD-CGD-O2D-CED
22	D	1008	CLA	C2-C3-C5-C6
22	D	1008	CLA	C4-C3-C5-C6
22	H	1017	CLA	CHA-CBD-CGD-O2D
22	K	1034	CLA	C4B-C3B-CAB-CBB
22	K	1034	CLA	CAD-CBD-CGD-O2D
22	K	1034	CLA	O2A-C1-C2-C3
22	a	6003	CLA	C1A-C2A-CAA-CBA
22	a	6003	CLA	C2B-C3B-CAB-CBB
22	a	6003	CLA	C4B-C3B-CAB-CBB
22	a	6003	CLA	CBD-CGD-O2D-CED
22	a	6003	CLA	O1D-CGD-O2D-CED
22	a	6006	CLA	C1A-C2A-CAA-CBA
22	a	6006	CLA	C4C-C3C-CAC-CBC
22	a	6007	CLA	C1A-C2A-CAA-CBA
22	a	6007	CLA	C3A-C2A-CAA-CBA
22	a	6007	CLA	C2B-C3B-CAB-CBB
22	a	6007	CLA	C4B-C3B-CAB-CBB
22	a	6007	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	a	6007	CLA	C11-C10-C8-C7
22	a	6007	CLA	C11-C12-C13-C14
22	b	6009	CLA	C1A-C2A-CAA-CBA
22	b	6009	CLA	C3A-C2A-CAA-CBA
22	b	6009	CLA	CBD-CGD-O2D-CED
22	b	6009	CLA	O1D-CGD-O2D-CED
22	b	6011	CLA	C3A-C2A-CAA-CBA
22	b	6011	CLA	CBD-CGD-O2D-CED
22	b	6012	CLA	C2B-C3B-CAB-CBB
22	b	6012	CLA	C4B-C3B-CAB-CBB
22	b	6012	CLA	CBD-CGD-O2D-CED
22	b	6013	CLA	C4B-C3B-CAB-CBB
22	b	6013	CLA	CHA-CBD-CGD-O1D
22	b	6013	CLA	CHA-CBD-CGD-O2D
22	b	6013	CLA	CBD-CGD-O2D-CED
22	b	6013	CLA	C14-C13-C15-C16
22	b	6014	CLA	C1A-C2A-CAA-CBA
22	b	6014	CLA	C2B-C3B-CAB-CBB
22	b	6014	CLA	C4B-C3B-CAB-CBB
22	b	6014	CLA	C4C-C3C-CAC-CBC
22	b	6014	CLA	CBD-CGD-O2D-CED
22	b	6015	CLA	C1A-C2A-CAA-CBA
22	b	6015	CLA	C3A-C2A-CAA-CBA
22	b	6015	CLA	CAD-CBD-CGD-O1D
22	b	6015	CLA	CAD-CBD-CGD-O2D
22	b	6015	CLA	CBD-CGD-O2D-CED
22	b	6016	CLA	C2B-C3B-CAB-CBB
22	b	6016	CLA	C4B-C3B-CAB-CBB
22	b	6016	CLA	CBD-CGD-O2D-CED
22	b	6016	CLA	C6-C7-C8-C9
22	b	6018	CLA	CHA-CBD-CGD-O2D
22	b	6019	CLA	C1A-C2A-CAA-CBA
22	b	6019	CLA	C3A-C2A-CAA-CBA
22	b	6019	CLA	CAD-CBD-CGD-O1D
22	b	6019	CLA	CAD-CBD-CGD-O2D
22	b	6020	CLA	C1A-C2A-CAA-CBA
22	b	6020	CLA	C3A-C2A-CAA-CBA
22	b	6020	CLA	C2B-C3B-CAB-CBB
22	b	6020	CLA	C4B-C3B-CAB-CBB
22	b	6020	CLA	CHA-CBD-CGD-O2D
22	b	6020	CLA	C11-C10-C8-C9
22	b	6021	CLA	CHA-CBD-CGD-O1D

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Mol	Chain	Res	Type	Atoms
22	b	6021	CLA	CHA-CBD-CGD-O2D
22	b	6021	CLA	CBD-CGD-O2D-CED
22	b	6022	CLA	CBD-CGD-O2D-CED
22	b	6023	CLA	CAD-CBD-CGD-O1D
22	b	6023	CLA	CAD-CBD-CGD-O2D
22	b	6024	CLA	C2B-C3B-CAB-CBB
22	b	6024	CLA	C4B-C3B-CAB-CBB
22	c	6025	CLA	C3A-C2A-CAA-CBA
22	c	6025	CLA	CAD-CBD-CGD-O1D
22	c	6025	CLA	CAD-CBD-CGD-O2D
22	c	6025	CLA	CBD-CGD-O2D-CED
22	c	6026	CLA	C2-C1-O2A-CGA
22	c	6026	CLA	C2B-C3B-CAB-CBB
22	c	6026	CLA	C4B-C3B-CAB-CBB
22	c	6026	CLA	CBD-CGD-O2D-CED
22	c	6026	CLA	C11-C12-C13-C14
22	c	6027	CLA	CBD-CGD-O2D-CED
22	c	6027	CLA	O1D-CGD-O2D-CED
22	c	6028	CLA	CAD-CBD-CGD-O1D
22	c	6028	CLA	CAD-CBD-CGD-O2D
22	c	6030	CLA	C2C-C3C-CAC-CBC
22	c	6030	CLA	C4C-C3C-CAC-CBC
22	c	6030	CLA	CBD-CGD-O2D-CED
22	c	6030	CLA	O1D-CGD-O2D-CED
22	c	6030	CLA	C2-C3-C5-C6
22	c	6030	CLA	C4-C3-C5-C6
22	c	6031	CLA	C2C-C3C-CAC-CBC
22	c	6031	CLA	C4C-C3C-CAC-CBC
22	c	6031	CLA	CHA-CBD-CGD-O2D
22	c	6032	CLA	C1A-C2A-CAA-CBA
22	c	6032	CLA	C3A-C2A-CAA-CBA
22	c	6033	CLA	C2-C1-O2A-CGA
22	c	6033	CLA	CAD-CBD-CGD-O2D
22	c	6033	CLA	CBD-CGD-O2D-CED
22	c	6035	CLA	C1A-C2A-CAA-CBA
22	c	6035	CLA	C3A-C2A-CAA-CBA
22	c	6036	CLA	C1A-C2A-CAA-CBA
22	c	6036	CLA	CAD-CBD-CGD-O1D
22	c	6036	CLA	C12-C13-C15-C16
22	c	6037	CLA	C3A-C2A-CAA-CBA
22	c	6037	CLA	C4C-C3C-CAC-CBC
22	d	6005	CLA	C1A-C2A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
22	d	6005	CLA	C3A-C2A-CAA-CBA
22	d	6004	CLA	CAD-CBD-CGD-O2D
22	d	6008	CLA	CBD-CGD-O2D-CED
22	d	6008	CLA	C2-C3-C5-C6
22	d	6008	CLA	C4-C3-C5-C6
22	h	6017	CLA	CHA-CBD-CGD-O2D
22	k	6034	CLA	C4B-C3B-CAB-CBB
22	k	6034	CLA	CAD-CBD-CGD-O2D
22	k	6034	CLA	O2A-C1-C2-C3
23	A	1038	PHO	C3A-C2A-CAA-CBA
23	A	1038	PHO	C2C-C3C-CAC-CBC
23	A	1038	PHO	CAD-CBD-CGD-O1D
23	A	1038	PHO	CAD-CBD-CGD-O2D
23	A	1038	PHO	CBD-CGD-O2D-CED
23	A	1038	PHO	C6-C7-C8-C9
23	D	1039	PHO	C2C-C3C-CAC-CBC
23	D	1039	PHO	O2A-C1-C2-C3
23	D	1039	PHO	C11-C10-C8-C9
23	a	6038	PHO	C3A-C2A-CAA-CBA
23	a	6038	PHO	C2C-C3C-CAC-CBC
23	a	6038	PHO	CAD-CBD-CGD-O1D
23	a	6038	PHO	CAD-CBD-CGD-O2D
23	a	6038	PHO	CBD-CGD-O2D-CED
23	a	6038	PHO	C6-C7-C8-C9
23	d	6039	PHO	C2C-C3C-CAC-CBC
23	d	6039	PHO	O2A-C1-C2-C3
23	d	6039	PHO	C11-C10-C8-C9
24	D	1042	PQ9	C30-C31-C32-C33
24	D	1042	PQ9	C39-C38-C40-C41
24	d	6042	PQ9	C30-C31-C32-C33
24	d	6042	PQ9	C39-C38-C40-C41
25	A	1044	BCR	C6-C7-C8-C9
25	A	1044	BCR	C10-C11-C12-C13
25	A	1044	BCR	C20-C21-C22-C23
25	A	1044	BCR	C20-C21-C22-C37
25	B	1045	BCR	C7-C8-C9-C34
25	B	1045	BCR	C9-C10-C11-C12
25	B	1045	BCR	C10-C11-C12-C13
25	B	1045	BCR	C14-C15-C16-C17
25	B	1045	BCR	C15-C16-C17-C18
25	B	1045	BCR	C16-C17-C18-C19
25	B	1045	BCR	C16-C17-C18-C36

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Mol	Chain	Res	Type	Atoms
25	B	1045	BCR	C18-C19-C20-C21
25	B	1045	BCR	C19-C20-C21-C22
25	B	1045	BCR	C23-C24-C25-C26
25	B	1045	BCR	C23-C24-C25-C30
25	B	1047	BCR	C1-C6-C7-C8
25	B	1047	BCR	C5-C6-C7-C8
25	B	1047	BCR	C17-C18-C19-C20
25	B	1047	BCR	C36-C18-C19-C20
25	B	1047	BCR	C18-C19-C20-C21
25	B	1047	BCR	C20-C21-C22-C23
25	B	1047	BCR	C20-C21-C22-C37
25	B	1048	BCR	C10-C11-C12-C13
25	B	1048	BCR	C14-C15-C16-C17
25	B	1048	BCR	C15-C16-C17-C18
25	B	1048	BCR	C18-C19-C20-C21
25	C	1052	BCR	C7-C8-C9-C10
25	C	1052	BCR	C10-C11-C12-C13
25	C	1052	BCR	C23-C24-C25-C26
25	C	1052	BCR	C23-C24-C25-C30
25	C	1054	BCR	C1-C6-C7-C8
25	C	1054	BCR	C5-C6-C7-C8
25	C	1054	BCR	C7-C8-C9-C34
25	C	1054	BCR	C10-C11-C12-C13
25	C	1054	BCR	C14-C15-C16-C17
25	C	1054	BCR	C15-C16-C17-C18
25	C	1054	BCR	C18-C19-C20-C21
25	D	1050	BCR	C5-C6-C7-C8
25	D	1050	BCR	C10-C11-C12-C13
25	D	1050	BCR	C11-C12-C13-C14
25	D	1050	BCR	C11-C12-C13-C35
25	D	1050	BCR	C13-C14-C15-C16
25	D	1050	BCR	C14-C15-C16-C17
25	D	1050	BCR	C16-C17-C18-C19
25	D	1050	BCR	C16-C17-C18-C36
25	D	1050	BCR	C17-C18-C19-C20
25	D	1050	BCR	C36-C18-C19-C20
25	D	1050	BCR	C18-C19-C20-C21
25	D	1050	BCR	C23-C24-C25-C26
25	D	1050	BCR	C23-C24-C25-C30
25	H	1049	BCR	C10-C11-C12-C13
25	H	1049	BCR	C11-C12-C13-C14
25	H	1049	BCR	C14-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
25	H	1049	BCR	C15-C16-C17-C18
25	H	1049	BCR	C17-C18-C19-C20
25	H	1049	BCR	C36-C18-C19-C20
25	H	1049	BCR	C18-C19-C20-C21
25	K	1051	BCR	C7-C8-C9-C10
25	K	1051	BCR	C7-C8-C9-C34
25	K	1051	BCR	C14-C15-C16-C17
25	K	1051	BCR	C18-C19-C20-C21
25	T	6046	BCR	C10-C11-C12-C13
25	T	6046	BCR	C14-C15-C16-C17
25	T	6046	BCR	C18-C19-C20-C21
25	T	6046	BCR	C19-C20-C21-C22
25	T	6048	BCR	C10-C11-C12-C13
25	T	6048	BCR	C14-C15-C16-C17
25	T	6048	BCR	C15-C16-C17-C18
25	T	6048	BCR	C18-C19-C20-C21
25	Z	1053	BCR	C6-C7-C8-C9
25	Z	1053	BCR	C7-C8-C9-C10
25	Z	1053	BCR	C10-C11-C12-C13
25	Z	1053	BCR	C20-C21-C22-C37
25	Z	1053	BCR	C23-C24-C25-C26
25	Z	1053	BCR	C23-C24-C25-C30
25	a	6044	BCR	C6-C7-C8-C9
25	a	6044	BCR	C10-C11-C12-C13
25	a	6044	BCR	C20-C21-C22-C23
25	a	6044	BCR	C20-C21-C22-C37
25	b	6045	BCR	C7-C8-C9-C34
25	b	6045	BCR	C9-C10-C11-C12
25	b	6045	BCR	C10-C11-C12-C13
25	b	6045	BCR	C14-C15-C16-C17
25	b	6045	BCR	C15-C16-C17-C18
25	b	6045	BCR	C16-C17-C18-C19
25	b	6045	BCR	C16-C17-C18-C36
25	b	6045	BCR	C18-C19-C20-C21
25	b	6045	BCR	C19-C20-C21-C22
25	b	6045	BCR	C23-C24-C25-C26
25	b	6045	BCR	C23-C24-C25-C30
25	b	6047	BCR	C1-C6-C7-C8
25	b	6047	BCR	C5-C6-C7-C8
25	b	6047	BCR	C17-C18-C19-C20
25	b	6047	BCR	C36-C18-C19-C20
25	b	6047	BCR	C18-C19-C20-C21

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Mol	Chain	Res	Type	Atoms
25	b	6047	BCR	C20-C21-C22-C23
25	b	6047	BCR	C20-C21-C22-C37
25	c	6054	BCR	C1-C6-C7-C8
25	c	6054	BCR	C5-C6-C7-C8
25	c	6054	BCR	C7-C8-C9-C34
25	c	6054	BCR	C10-C11-C12-C13
25	c	6054	BCR	C14-C15-C16-C17
25	c	6054	BCR	C15-C16-C17-C18
25	c	6054	BCR	C18-C19-C20-C21
25	d	6050	BCR	C5-C6-C7-C8
25	d	6050	BCR	C10-C11-C12-C13
25	d	6050	BCR	C11-C12-C13-C14
25	d	6050	BCR	C11-C12-C13-C35
25	d	6050	BCR	C13-C14-C15-C16
25	d	6050	BCR	C14-C15-C16-C17
25	d	6050	BCR	C16-C17-C18-C19
25	d	6050	BCR	C16-C17-C18-C36
25	d	6050	BCR	C17-C18-C19-C20
25	d	6050	BCR	C36-C18-C19-C20
25	d	6050	BCR	C18-C19-C20-C21
25	d	6050	BCR	C23-C24-C25-C26
25	d	6050	BCR	C23-C24-C25-C30
25	h	6049	BCR	C10-C11-C12-C13
25	h	6049	BCR	C11-C12-C13-C14
25	h	6049	BCR	C14-C15-C16-C17
25	h	6049	BCR	C15-C16-C17-C18
25	h	6049	BCR	C17-C18-C19-C20
25	h	6049	BCR	C36-C18-C19-C20
25	h	6049	BCR	C18-C19-C20-C21
25	k	6052	BCR	C7-C8-C9-C10
25	k	6052	BCR	C10-C11-C12-C13
25	k	6052	BCR	C23-C24-C25-C26
25	k	6052	BCR	C23-C24-C25-C30
25	k	6051	BCR	C7-C8-C9-C10
25	k	6051	BCR	C7-C8-C9-C34
25	k	6051	BCR	C14-C15-C16-C17
25	k	6051	BCR	C18-C19-C20-C21
25	t	1046	BCR	C10-C11-C12-C13
25	t	1046	BCR	C14-C15-C16-C17
25	t	1046	BCR	C18-C19-C20-C21
25	t	1046	BCR	C19-C20-C21-C22
25	z	6053	BCR	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
25	z	6053	BCR	C7-C8-C9-C10
25	z	6053	BCR	C10-C11-C12-C13
25	z	6053	BCR	C20-C21-C22-C37
25	z	6053	BCR	C23-C24-C25-C26
25	z	6053	BCR	C23-C24-C25-C30
26	A	1063	LHG	O1-C1-C2-C3
26	A	1063	LHG	O2-C2-C3-O3
26	a	6063	LHG	O1-C1-C2-C3
26	a	6063	LHG	O2-C2-C3-O3
28	D	1059	MGE	C2B-C1B-O2G-C2G
28	D	1062	MGE	C2G-C3G-O3G-C1D
28	d	6059	MGE	C2B-C1B-O2G-C2G
28	d	6062	MGE	C2G-C3G-O3G-C1D
29	B	1058	DGD	O6D-C1D-O3G-C3G
29	C	1055	DGD	C2B-C1B-O2G-C2G
29	C	1055	DGD	O6D-C1D-O3G-C3G
29	C	1056	DGD	C2B-C1B-O2G-C2G
29	C	1056	DGD	C1G-C2G-O2G-C1B
29	C	1057	DGD	O1G-C1G-C2G-O2G
29	b	6058	DGD	O6D-C1D-O3G-C3G
29	c	6055	DGD	C2B-C1B-O2G-C2G
29	c	6055	DGD	O6D-C1D-O3G-C3G
29	c	6056	DGD	C2B-C1B-O2G-C2G
29	c	6056	DGD	C1G-C2G-O2G-C1B
29	c	6057	DGD	O1G-C1G-C2G-O2G
31	F	1040	HEM	C2C-C3C-CAC-CBC
31	F	1040	HEM	C4C-C3C-CAC-CBC
31	f	6040	HEM	C2C-C3C-CAC-CBC
31	f	6040	HEM	C4C-C3C-CAC-CBC
22	B	1022	CLA	C4C-C3C-CAC-CBC
22	B	1023	CLA	C4C-C3C-CAC-CBC
22	b	6022	CLA	C4C-C3C-CAC-CBC
22	b	6023	CLA	C4C-C3C-CAC-CBC
22	A	1006	CLA	C2C-C3C-CAC-CBC
22	B	1014	CLA	C2C-C3C-CAC-CBC
22	B	1022	CLA	C2C-C3C-CAC-CBC
22	C	1037	CLA	C2C-C3C-CAC-CBC
22	a	6006	CLA	C2C-C3C-CAC-CBC
22	b	6014	CLA	C2C-C3C-CAC-CBC
22	b	6022	CLA	C2C-C3C-CAC-CBC
22	c	6037	CLA	C2C-C3C-CAC-CBC
22	A	1007	CLA	O1D-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	C	1026	CLA	O1D-CGD-O2D-CED
22	C	1033	CLA	O1D-CGD-O2D-CED
22	D	1008	CLA	O1D-CGD-O2D-CED
22	a	6007	CLA	O1D-CGD-O2D-CED
22	c	6026	CLA	O1D-CGD-O2D-CED
22	c	6033	CLA	O1D-CGD-O2D-CED
22	d	6008	CLA	O1D-CGD-O2D-CED
22	B	1013	CLA	C4C-C3C-CAC-CBC
22	B	1024	CLA	C4C-C3C-CAC-CBC
22	C	1027	CLA	C4C-C3C-CAC-CBC
22	b	6013	CLA	C4C-C3C-CAC-CBC
22	b	6024	CLA	C4C-C3C-CAC-CBC
22	c	6027	CLA	C4C-C3C-CAC-CBC
22	B	1023	CLA	C2C-C3C-CAC-CBC
22	K	1034	CLA	C2C-C3C-CAC-CBC
22	b	6023	CLA	C2C-C3C-CAC-CBC
22	k	6034	CLA	C2C-C3C-CAC-CBC
22	B	1012	CLA	O1D-CGD-O2D-CED
22	B	1014	CLA	O1D-CGD-O2D-CED
22	B	1015	CLA	O1D-CGD-O2D-CED
22	B	1019	CLA	O1D-CGD-O2D-CED
22	B	1024	CLA	O1D-CGD-O2D-CED
22	C	1025	CLA	O1D-CGD-O2D-CED
22	b	6012	CLA	O1D-CGD-O2D-CED
22	b	6014	CLA	O1D-CGD-O2D-CED
22	b	6015	CLA	O1D-CGD-O2D-CED
22	b	6019	CLA	O1D-CGD-O2D-CED
22	b	6024	CLA	O1D-CGD-O2D-CED
22	c	6025	CLA	O1D-CGD-O2D-CED
22	B	1019	CLA	CBD-CGD-O2D-CED
22	B	1024	CLA	CBD-CGD-O2D-CED
22	C	1029	CLA	CBD-CGD-O2D-CED
22	D	1005	CLA	CBD-CGD-O2D-CED
22	b	6019	CLA	CBD-CGD-O2D-CED
22	b	6024	CLA	CBD-CGD-O2D-CED
22	c	6029	CLA	CBD-CGD-O2D-CED
22	d	6005	CLA	CBD-CGD-O2D-CED
22	B	1010	CLA	O1A-CGA-O2A-C1
22	C	1025	CLA	O1A-CGA-O2A-C1
22	D	1008	CLA	O1A-CGA-O2A-C1
22	b	6010	CLA	O1A-CGA-O2A-C1
22	c	6025	CLA	O1A-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
22	d	6008	CLA	O1A-CGA-O2A-C1
22	C	1036	CLA	C4C-C3C-CAC-CBC
22	c	6036	CLA	C4C-C3C-CAC-CBC
22	B	1013	CLA	C2C-C3C-CAC-CBC
22	C	1027	CLA	C2C-C3C-CAC-CBC
22	C	1036	CLA	C2C-C3C-CAC-CBC
22	b	6013	CLA	C2C-C3C-CAC-CBC
22	c	6027	CLA	C2C-C3C-CAC-CBC
22	c	6036	CLA	C2C-C3C-CAC-CBC
23	A	1038	PHO	O1D-CGD-O2D-CED
23	a	6038	PHO	O1D-CGD-O2D-CED
22	C	1030	CLA	C13-C15-C16-C17
22	c	6030	CLA	C13-C15-C16-C17
23	A	1038	PHO	C3-C5-C6-C7
23	a	6038	PHO	C3-C5-C6-C7
22	K	1034	CLA	C4C-C3C-CAC-CBC
22	k	6034	CLA	C4C-C3C-CAC-CBC
22	B	1024	CLA	C2C-C3C-CAC-CBC
22	b	6024	CLA	C2C-C3C-CAC-CBC
22	B	1021	CLA	O1D-CGD-O2D-CED
22	B	1022	CLA	O1D-CGD-O2D-CED
22	b	6021	CLA	O1D-CGD-O2D-CED
22	b	6022	CLA	O1D-CGD-O2D-CED
22	d	6005	CLA	O1D-CGD-O2D-CED
22	B	1016	CLA	O1A-CGA-O2A-C1
22	D	1004	CLA	O1A-CGA-O2A-C1
22	b	6016	CLA	O1A-CGA-O2A-C1
22	d	6004	CLA	O1A-CGA-O2A-C1
28	D	1062	MGE	O1A-C1A-O1G-C1G
28	d	6062	MGE	O1A-C1A-O1G-C1G
22	D	1008	CLA	C15-C16-C17-C18
22	d	6008	CLA	C15-C16-C17-C18
22	C	1029	CLA	C4C-C3C-CAC-CBC
22	c	6029	CLA	C4C-C3C-CAC-CBC
28	B	1060	MGE	C4D-C5D-C6D-O5D
28	b	6060	MGE	C4D-C5D-C6D-O5D
22	C	1029	CLA	O1D-CGD-O2D-CED
22	D	1005	CLA	O1D-CGD-O2D-CED
22	c	6029	CLA	O1D-CGD-O2D-CED
22	C	1029	CLA	C2C-C3C-CAC-CBC
22	c	6029	CLA	C2C-C3C-CAC-CBC
29	B	1058	DGD	O6D-C5D-C6D-O5D

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Mol	Chain	Res	Type	Atoms
29	b	6058	DGD	O6D-C5D-C6D-O5D
22	D	1008	CLA	C4C-C3C-CAC-CBC
22	d	6008	CLA	C4C-C3C-CAC-CBC
22	D	1008	CLA	C2C-C3C-CAC-CBC
22	d	6008	CLA	C2C-C3C-CAC-CBC
28	D	1059	MGE	O1B-C1B-O2G-C2G
28	d	6059	MGE	O1B-C1B-O2G-C2G
29	C	1055	DGD	O1B-C1B-O2G-C2G
29	C	1056	DGD	O1B-C1B-O2G-C2G
29	c	6055	DGD	O1B-C1B-O2G-C2G
29	c	6056	DGD	O1B-C1B-O2G-C2G
22	B	1009	CLA	C3-C5-C6-C7
22	B	1016	CLA	C3-C5-C6-C7
22	C	1027	CLA	C3-C5-C6-C7
22	C	1035	CLA	C3-C5-C6-C7
22	C	1036	CLA	C3-C5-C6-C7
22	D	1008	CLA	C3-C5-C6-C7
22	H	1017	CLA	C3-C5-C6-C7
22	b	6009	CLA	C3-C5-C6-C7
22	b	6016	CLA	C3-C5-C6-C7
22	c	6027	CLA	C3-C5-C6-C7
22	c	6035	CLA	C3-C5-C6-C7
22	c	6036	CLA	C3-C5-C6-C7
22	d	6008	CLA	C3-C5-C6-C7
22	h	6017	CLA	C3-C5-C6-C7
22	B	1016	CLA	CBA-CGA-O2A-C1
22	C	1029	CLA	CBA-CGA-O2A-C1
22	D	1004	CLA	CBA-CGA-O2A-C1
22	D	1008	CLA	CBA-CGA-O2A-C1
22	b	6016	CLA	CBA-CGA-O2A-C1
22	c	6029	CLA	CBA-CGA-O2A-C1
22	d	6004	CLA	CBA-CGA-O2A-C1
22	d	6008	CLA	CBA-CGA-O2A-C1
22	C	1028	CLA	CBD-CGD-O2D-CED
22	K	1034	CLA	CBD-CGD-O2D-CED
22	c	6028	CLA	CBD-CGD-O2D-CED
22	k	6034	CLA	CBD-CGD-O2D-CED
22	A	1003	CLA	C2C-C3C-CAC-CBC
22	B	1016	CLA	C2C-C3C-CAC-CBC
22	B	1019	CLA	C2C-C3C-CAC-CBC
22	a	6003	CLA	C2C-C3C-CAC-CBC
22	b	6016	CLA	C2C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
22	b	6019	CLA	C2C-C3C-CAC-CBC
22	A	1003	CLA	C4-C3-C5-C6
22	A	1007	CLA	C4-C3-C5-C6
22	B	1014	CLA	C4-C3-C5-C6
22	C	1027	CLA	C4-C3-C5-C6
22	C	1028	CLA	C4-C3-C5-C6
22	C	1032	CLA	C4-C3-C5-C6
22	D	1005	CLA	C4-C3-C5-C6
22	H	1017	CLA	C4-C3-C5-C6
22	K	1034	CLA	C4-C3-C5-C6
22	a	6003	CLA	C4-C3-C5-C6
22	a	6007	CLA	C4-C3-C5-C6
22	b	6014	CLA	C4-C3-C5-C6
22	c	6027	CLA	C4-C3-C5-C6
22	c	6028	CLA	C4-C3-C5-C6
22	c	6032	CLA	C4-C3-C5-C6
22	d	6005	CLA	C4-C3-C5-C6
22	h	6017	CLA	C4-C3-C5-C6
22	k	6034	CLA	C4-C3-C5-C6
24	A	1043	PQ9	C14-C13-C15-C16
24	A	1043	PQ9	C29-C28-C30-C31
24	D	1042	PQ9	C19-C18-C20-C21
24	a	6043	PQ9	C14-C13-C15-C16
24	a	6043	PQ9	C29-C28-C30-C31
24	d	6042	PQ9	C19-C18-C20-C21
22	A	1007	CLA	C2-C3-C5-C6
22	C	1027	CLA	C2-C3-C5-C6
22	C	1030	CLA	C2-C3-C5-C6
22	C	1032	CLA	C2-C3-C5-C6
22	D	1005	CLA	C2-C3-C5-C6
22	H	1017	CLA	C2-C3-C5-C6
22	a	6007	CLA	C2-C3-C5-C6
22	c	6027	CLA	C2-C3-C5-C6
22	c	6032	CLA	C2-C3-C5-C6
22	d	6005	CLA	C2-C3-C5-C6
22	h	6017	CLA	C2-C3-C5-C6
24	A	1043	PQ9	C12-C13-C15-C16
24	D	1042	PQ9	C17-C18-C20-C21
24	D	1042	PQ9	C37-C38-C40-C41
24	a	6043	PQ9	C12-C13-C15-C16
24	d	6042	PQ9	C17-C18-C20-C21
24	d	6042	PQ9	C37-C38-C40-C41

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Mol	Chain	Res	Type	Atoms
22	A	1003	CLA	C2A-CAA-CBA-CGA
22	B	1012	CLA	C2A-CAA-CBA-CGA
22	B	1019	CLA	C2A-CAA-CBA-CGA
22	B	1021	CLA	C2A-CAA-CBA-CGA
22	a	6003	CLA	C2A-CAA-CBA-CGA
22	b	6012	CLA	C2A-CAA-CBA-CGA
22	b	6019	CLA	C2A-CAA-CBA-CGA
22	b	6021	CLA	C2A-CAA-CBA-CGA
22	B	1023	CLA	C3-C5-C6-C7
22	B	1024	CLA	C3-C5-C6-C7
22	C	1028	CLA	C3-C5-C6-C7
22	C	1029	CLA	C3-C5-C6-C7
22	b	6023	CLA	C3-C5-C6-C7
22	b	6024	CLA	C3-C5-C6-C7
22	c	6028	CLA	C3-C5-C6-C7
22	c	6029	CLA	C3-C5-C6-C7
31	F	1040	HEM	C3A-C2A-CAA-CBA
31	f	6040	HEM	C3A-C2A-CAA-CBA
22	A	1006	CLA	CBA-CGA-O2A-C1
22	B	1009	CLA	CBA-CGA-O2A-C1
22	C	1025	CLA	CBA-CGA-O2A-C1
22	a	6006	CLA	CBA-CGA-O2A-C1
22	b	6009	CLA	CBA-CGA-O2A-C1
22	c	6025	CLA	CBA-CGA-O2A-C1
28	D	1062	MGE	C2A-C1A-O1G-C1G
28	d	6062	MGE	C2A-C1A-O1G-C1G
25	B	1047	BCR	C15-C16-C17-C18
25	C	1052	BCR	C19-C20-C21-C22
25	C	1054	BCR	C19-C20-C21-C22
25	D	1050	BCR	C9-C10-C11-C12
25	D	1050	BCR	C15-C16-C17-C18
25	H	1049	BCR	C19-C20-C21-C22
25	K	1051	BCR	C13-C14-C15-C16
25	K	1051	BCR	C15-C16-C17-C18
25	T	6046	BCR	C15-C16-C17-C18
25	Z	1053	BCR	C19-C20-C21-C22
25	b	6047	BCR	C15-C16-C17-C18
25	c	6054	BCR	C19-C20-C21-C22
25	d	6050	BCR	C9-C10-C11-C12
25	d	6050	BCR	C15-C16-C17-C18
25	h	6049	BCR	C19-C20-C21-C22
25	k	6052	BCR	C19-C20-C21-C22

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Mol	Chain	Res	Type	Atoms
25	k	6051	BCR	C13-C14-C15-C16
25	k	6051	BCR	C15-C16-C17-C18
25	t	1046	BCR	C15-C16-C17-C18
25	z	6053	BCR	C19-C20-C21-C22
29	C	1055	DGD	O1A-C1A-O1G-C1G
29	c	6055	DGD	O1A-C1A-O1G-C1G
22	B	1016	CLA	O1D-CGD-O2D-CED
22	b	6016	CLA	O1D-CGD-O2D-CED
22	C	1035	CLA	CBD-CGD-O2D-CED
22	c	6035	CLA	CBD-CGD-O2D-CED
22	A	1003	CLA	C4C-C3C-CAC-CBC
22	B	1010	CLA	CBA-CGA-O2A-C1
22	C	1028	CLA	CBA-CGA-O2A-C1
22	b	6010	CLA	CBA-CGA-O2A-C1
22	c	6028	CLA	CBA-CGA-O2A-C1
29	C	1055	DGD	C2A-C1A-O1G-C1G
29	c	6055	DGD	C2A-C1A-O1G-C1G
28	B	1060	MGE	O6D-C5D-C6D-O5D
28	b	6060	MGE	O6D-C5D-C6D-O5D
22	C	1028	CLA	O1A-CGA-O2A-C1
22	c	6028	CLA	O1A-CGA-O2A-C1
22	a	6003	CLA	C4C-C3C-CAC-CBC
22	B	1013	CLA	O1D-CGD-O2D-CED
22	b	6013	CLA	O1D-CGD-O2D-CED
26	A	1063	LHG	C8-C7-O7-C5
26	a	6063	LHG	C8-C7-O7-C5
22	B	1012	CLA	C2C-C3C-CAC-CBC
22	b	6012	CLA	C2C-C3C-CAC-CBC
29	C	1055	DGD	O6D-C5D-C6D-O5D
29	C	1056	DGD	O6D-C5D-C6D-O5D
29	c	6055	DGD	O6D-C5D-C6D-O5D
29	c	6056	DGD	O6D-C5D-C6D-O5D
22	B	1019	CLA	C3-C5-C6-C7
22	C	1025	CLA	C3-C5-C6-C7
22	b	6019	CLA	C3-C5-C6-C7
22	c	6025	CLA	C3-C5-C6-C7
29	C	1056	DGD	C1A-C2A-C3A-C4A
29	c	6056	DGD	C1A-C2A-C3A-C4A
29	C	1056	DGD	C6B-C7B-C8B-C9B
29	c	6056	DGD	C6B-C7B-C8B-C9B
22	A	1006	CLA	CBD-CGD-O2D-CED
22	a	6006	CLA	CBD-CGD-O2D-CED

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Mol	Chain	Res	Type	Atoms
22	B	1016	CLA	C4C-C3C-CAC-CBC
22	b	6016	CLA	C4C-C3C-CAC-CBC
22	A	1003	CLA	C2-C3-C5-C6
22	B	1014	CLA	C2-C3-C5-C6
22	K	1034	CLA	C2-C3-C5-C6
22	a	6003	CLA	C2-C3-C5-C6
22	b	6014	CLA	C2-C3-C5-C6
22	k	6034	CLA	C2-C3-C5-C6
22	B	1009	CLA	C8-C10-C11-C12
22	b	6009	CLA	C8-C10-C11-C12
22	B	1009	CLA	O1A-CGA-O2A-C1
22	b	6009	CLA	O1A-CGA-O2A-C1
24	A	1043	PQ9	C33-C35-C36-C37
24	D	1042	PQ9	C28-C30-C31-C32
24	D	1042	PQ9	C33-C35-C36-C37
24	a	6043	PQ9	C33-C35-C36-C37
24	d	6042	PQ9	C28-C30-C31-C32
24	d	6042	PQ9	C33-C35-C36-C37
31	F	1040	HEM	C1A-C2A-CAA-CBA
31	f	6040	HEM	C1A-C2A-CAA-CBA
28	B	1060	MGE	C7A-C8A-C9A-CAA
31	F	1040	HEM	C3D-CAD-CBD-CGD
31	f	6040	HEM	C3D-CAD-CBD-CGD
22	A	1006	CLA	C2A-CAA-CBA-CGA
22	a	6006	CLA	C2A-CAA-CBA-CGA
28	b	6060	MGE	C7A-C8A-C9A-CAA
29	B	1058	DGD	O6E-C1E-O5D-C6D
29	b	6058	DGD	O6E-C1E-O5D-C6D
28	L	1061	MGE	C2A-C1A-O1G-C1G
28	l	6061	MGE	C2A-C1A-O1G-C1G
29	C	1056	DGD	CBB-CCB-CDB-CEB
29	c	6056	DGD	CBB-CCB-CDB-CEB
29	C	1056	DGD	O6E-C5E-C6E-O5E
29	c	6056	DGD	O6E-C5E-C6E-O5E
22	B	1019	CLA	C4C-C3C-CAC-CBC
22	b	6019	CLA	C4C-C3C-CAC-CBC
28	B	1060	MGE	C4B-C5B-C6B-C7B
28	b	6060	MGE	C4B-C5B-C6B-C7B
29	C	1056	DGD	C7A-C8A-C9A-CAA
22	A	1006	CLA	O1A-CGA-O2A-C1
22	a	6006	CLA	O1A-CGA-O2A-C1
26	A	1063	LHG	C1-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
26	a	6063	LHG	C1-C2-C3-O3
22	C	1027	CLA	CBA-CGA-O2A-C1
22	c	6027	CLA	CBA-CGA-O2A-C1
29	B	1058	DGD	C2A-C1A-O1G-C1G
29	b	6058	DGD	C2A-C1A-O1G-C1G
29	C	1055	DGD	C7A-C8A-C9A-CAA
29	c	6055	DGD	C7A-C8A-C9A-CAA
29	c	6056	DGD	C7A-C8A-C9A-CAA
22	B	1020	CLA	CBD-CGD-O2D-CED
22	b	6020	CLA	CBD-CGD-O2D-CED
28	D	1059	MGE	C4D-C5D-C6D-O5D
28	d	6059	MGE	C4D-C5D-C6D-O5D
26	A	1063	LHG	C13-C14-C15-C16
26	a	6063	LHG	C13-C14-C15-C16
28	L	1061	MGE	C3B-C4B-C5B-C6B
28	l	6061	MGE	C3B-C4B-C5B-C6B
29	B	1058	DGD	C4D-C5D-C6D-O5D
29	C	1055	DGD	C4D-C5D-C6D-O5D
29	b	6058	DGD	C4D-C5D-C6D-O5D
29	c	6055	DGD	C4D-C5D-C6D-O5D
26	A	1063	LHG	C30-C31-C32-C33
26	a	6063	LHG	C30-C31-C32-C33
22	B	1015	CLA	C4-C3-C5-C6
22	b	6015	CLA	C4-C3-C5-C6
24	A	1043	PQ9	C19-C18-C20-C21
24	a	6043	PQ9	C19-C18-C20-C21
22	B	1015	CLA	C2-C3-C5-C6
22	C	1028	CLA	C2-C3-C5-C6
22	b	6015	CLA	C2-C3-C5-C6
22	c	6028	CLA	C2-C3-C5-C6
24	A	1043	PQ9	C27-C28-C30-C31
24	a	6043	PQ9	C27-C28-C30-C31
22	A	1006	CLA	C6-C7-C8-C9
22	A	1006	CLA	C11-C12-C13-C14
22	B	1009	CLA	C14-C13-C15-C16
22	B	1011	CLA	C6-C7-C8-C9
22	B	1011	CLA	C11-C12-C13-C14
22	B	1012	CLA	C6-C7-C8-C9
22	B	1013	CLA	C11-C12-C13-C14
22	B	1018	CLA	C11-C12-C13-C14
22	B	1019	CLA	C11-C12-C13-C14
22	B	1021	CLA	C11-C12-C13-C14

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Mol	Chain	Res	Type	Atoms
22	B	1022	CLA	C6-C7-C8-C9
22	B	1022	CLA	C11-C10-C8-C9
22	B	1022	CLA	C14-C13-C15-C16
22	B	1023	CLA	C6-C7-C8-C9
22	C	1025	CLA	C6-C7-C8-C9
22	C	1025	CLA	C14-C13-C15-C16
22	C	1026	CLA	C6-C7-C8-C9
22	C	1029	CLA	C11-C12-C13-C14
22	C	1030	CLA	C11-C10-C8-C9
22	C	1031	CLA	C6-C7-C8-C9
22	C	1035	CLA	C11-C12-C13-C14
22	C	1036	CLA	C6-C7-C8-C9
22	C	1037	CLA	C11-C12-C13-C14
22	D	1005	CLA	C11-C12-C13-C14
22	H	1017	CLA	C6-C7-C8-C9
22	K	1034	CLA	C6-C7-C8-C9
22	K	1034	CLA	C14-C13-C15-C16
22	a	6006	CLA	C6-C7-C8-C9
22	a	6006	CLA	C11-C12-C13-C14
22	b	6009	CLA	C14-C13-C15-C16
22	b	6011	CLA	C6-C7-C8-C9
22	b	6011	CLA	C11-C12-C13-C14
22	b	6012	CLA	C6-C7-C8-C9
22	b	6013	CLA	C11-C12-C13-C14
22	b	6018	CLA	C11-C12-C13-C14
22	b	6019	CLA	C11-C12-C13-C14
22	b	6021	CLA	C11-C12-C13-C14
22	b	6022	CLA	C6-C7-C8-C9
22	b	6022	CLA	C11-C10-C8-C9
22	b	6022	CLA	C14-C13-C15-C16
22	b	6023	CLA	C6-C7-C8-C9
22	c	6025	CLA	C6-C7-C8-C9
22	c	6025	CLA	C14-C13-C15-C16
22	c	6026	CLA	C6-C7-C8-C9
22	c	6029	CLA	C11-C12-C13-C14
22	c	6030	CLA	C11-C10-C8-C9
22	c	6031	CLA	C6-C7-C8-C9
22	c	6035	CLA	C11-C12-C13-C14
22	c	6036	CLA	C6-C7-C8-C9
22	c	6037	CLA	C11-C12-C13-C14
22	d	6005	CLA	C11-C12-C13-C14
22	h	6017	CLA	C6-C7-C8-C9

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Mol	Chain	Res	Type	Atoms
22	k	6034	CLA	C6-C7-C8-C9
22	k	6034	CLA	C14-C13-C15-C16
23	D	1039	PHO	C6-C7-C8-C9
23	D	1039	PHO	C11-C12-C13-C14
23	d	6039	PHO	C6-C7-C8-C9
23	d	6039	PHO	C11-C12-C13-C14
22	B	1009	CLA	C2C-C3C-CAC-CBC
22	b	6009	CLA	C2C-C3C-CAC-CBC
22	C	1029	CLA	O1A-CGA-O2A-C1
22	c	6029	CLA	O1A-CGA-O2A-C1
25	A	1044	BCR	C11-C12-C13-C35
25	B	1045	BCR	C37-C22-C23-C24
25	B	1047	BCR	C7-C8-C9-C34
25	B	1047	BCR	C11-C12-C13-C35
25	B	1048	BCR	C7-C8-C9-C34
25	C	1052	BCR	C7-C8-C9-C34
25	H	1049	BCR	C7-C8-C9-C34
25	H	1049	BCR	C11-C12-C13-C35
25	K	1051	BCR	C11-C12-C13-C35
25	T	6048	BCR	C7-C8-C9-C34
25	Z	1053	BCR	C7-C8-C9-C34
25	Z	1053	BCR	C37-C22-C23-C24
25	a	6044	BCR	C11-C12-C13-C35
25	b	6045	BCR	C37-C22-C23-C24
25	b	6047	BCR	C7-C8-C9-C34
25	b	6047	BCR	C11-C12-C13-C35
25	h	6049	BCR	C7-C8-C9-C34
25	h	6049	BCR	C11-C12-C13-C35
25	k	6052	BCR	C7-C8-C9-C34
25	k	6051	BCR	C11-C12-C13-C35
25	z	6053	BCR	C7-C8-C9-C34
25	z	6053	BCR	C37-C22-C23-C24
25	A	1044	BCR	C11-C12-C13-C14
25	B	1045	BCR	C7-C8-C9-C10
25	B	1045	BCR	C21-C22-C23-C24
25	B	1047	BCR	C7-C8-C9-C10
25	B	1047	BCR	C11-C12-C13-C14
25	B	1048	BCR	C7-C8-C9-C10
25	C	1054	BCR	C7-C8-C9-C10
25	K	1051	BCR	C11-C12-C13-C14
25	T	6048	BCR	C7-C8-C9-C10
25	Z	1053	BCR	C21-C22-C23-C24

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Mol	Chain	Res	Type	Atoms
25	a	6044	BCR	C11-C12-C13-C14
25	b	6045	BCR	C7-C8-C9-C10
25	b	6045	BCR	C21-C22-C23-C24
25	b	6047	BCR	C7-C8-C9-C10
25	b	6047	BCR	C11-C12-C13-C14
25	c	6054	BCR	C7-C8-C9-C10
25	k	6051	BCR	C11-C12-C13-C14
25	z	6053	BCR	C21-C22-C23-C24
22	B	1018	CLA	C2A-CAA-CBA-CGA
22	C	1031	CLA	C2A-CAA-CBA-CGA
22	b	6018	CLA	C2A-CAA-CBA-CGA
22	c	6031	CLA	C2A-CAA-CBA-CGA
29	B	1058	DGD	C6B-C7B-C8B-C9B
29	b	6058	DGD	C6B-C7B-C8B-C9B
22	B	1015	CLA	O1A-CGA-O2A-C1
22	b	6015	CLA	O1A-CGA-O2A-C1
29	B	1058	DGD	O1A-C1A-O1G-C1G
29	b	6058	DGD	O1A-C1A-O1G-C1G
26	A	1063	LHG	O9-C7-O7-C5
26	a	6063	LHG	O9-C7-O7-C5
28	D	1059	MGE	O6D-C5D-C6D-O5D
28	d	6059	MGE	O6D-C5D-C6D-O5D
22	B	1015	CLA	CBA-CGA-O2A-C1
22	b	6015	CLA	CBA-CGA-O2A-C1
29	C	1056	DGD	C8B-C9B-CAB-CBB
29	c	6056	DGD	C8B-C9B-CAB-CBB
22	B	1021	CLA	C13-C15-C16-C17
22	b	6021	CLA	C13-C15-C16-C17
22	c	6032	CLA	C10-C11-C12-C13
22	C	1033	CLA	C3-C5-C6-C7
22	c	6033	CLA	C3-C5-C6-C7
22	A	1003	CLA	C11-C12-C13-C15
22	B	1010	CLA	C11-C12-C13-C15
22	B	1018	CLA	C11-C10-C8-C7
22	C	1037	CLA	C12-C13-C15-C16
22	a	6003	CLA	C11-C12-C13-C15
22	b	6010	CLA	C11-C12-C13-C15
22	b	6018	CLA	C11-C10-C8-C7
22	c	6037	CLA	C12-C13-C15-C16
29	C	1056	DGD	CEB-CFB-CGB-CHB
29	c	6056	DGD	CEB-CFB-CGB-CHB
25	A	1044	BCR	C19-C20-C21-C22

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Mol	Chain	Res	Type	Atoms
25	C	1052	BCR	C15-C16-C17-C18
25	D	1050	BCR	C19-C20-C21-C22
25	a	6044	BCR	C19-C20-C21-C22
25	d	6050	BCR	C19-C20-C21-C22
25	k	6052	BCR	C15-C16-C17-C18
24	A	1043	PQ9	C13-C15-C16-C17
24	A	1043	PQ9	C38-C40-C41-C42
24	a	6043	PQ9	C13-C15-C16-C17
24	a	6043	PQ9	C38-C40-C41-C42
22	H	1017	CLA	C15-C16-C17-C18
22	h	6017	CLA	C15-C16-C17-C18
29	C	1056	DGD	C4E-C5E-C6E-O5E
29	c	6056	DGD	C4E-C5E-C6E-O5E
22	B	1011	CLA	O1A-CGA-O2A-C1
22	H	1017	CLA	O1A-CGA-O2A-C1
22	b	6011	CLA	O1A-CGA-O2A-C1
31	F	1040	HEM	C2A-CAA-CBA-CGA
31	f	6040	HEM	C2A-CAA-CBA-CGA
22	B	1013	CLA	C2A-CAA-CBA-CGA
22	C	1032	CLA	C2A-CAA-CBA-CGA
22	C	1036	CLA	C2A-CAA-CBA-CGA
22	b	6013	CLA	C2A-CAA-CBA-CGA
22	c	6032	CLA	C2A-CAA-CBA-CGA
22	c	6036	CLA	C2A-CAA-CBA-CGA
22	A	1007	CLA	C10-C11-C12-C13
22	C	1026	CLA	C13-C15-C16-C17
22	C	1027	CLA	C10-C11-C12-C13
22	a	6007	CLA	C10-C11-C12-C13
22	c	6026	CLA	C13-C15-C16-C17
22	c	6027	CLA	C10-C11-C12-C13
28	D	1059	MGE	C1B-C2B-C3B-C4B
28	D	1062	MGE	C1A-C2A-C3A-C4A
28	d	6059	MGE	C1B-C2B-C3B-C4B
28	d	6062	MGE	C1A-C2A-C3A-C4A
29	B	1058	DGD	C1A-C2A-C3A-C4A
29	C	1057	DGD	C1A-C2A-C3A-C4A
29	b	6058	DGD	C1A-C2A-C3A-C4A
29	c	6057	DGD	C1A-C2A-C3A-C4A
22	h	6017	CLA	O1A-CGA-O2A-C1
22	K	1034	CLA	C3-C5-C6-C7
22	k	6034	CLA	C3-C5-C6-C7
28	D	1062	MGE	O6D-C1D-O3G-C3G

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Mol	Chain	Res	Type	Atoms
28	d	6062	MGE	O6D-C1D-O3G-C3G
29	C	1057	DGD	O6D-C1D-O3G-C3G
29	c	6057	DGD	O6D-C1D-O3G-C3G
28	L	1061	MGE	CBB-CCB-CDB-CEB
28	l	6061	MGE	CBB-CCB-CDB-CEB
22	B	1013	CLA	C8-C10-C11-C12
22	B	1015	CLA	C5-C6-C7-C8
22	B	1020	CLA	C8-C10-C11-C12
22	B	1021	CLA	C5-C6-C7-C8
22	B	1024	CLA	C10-C11-C12-C13
22	C	1030	CLA	C8-C10-C11-C12
22	C	1032	CLA	C13-C15-C16-C17
22	b	6013	CLA	C8-C10-C11-C12
22	b	6015	CLA	C5-C6-C7-C8
22	b	6020	CLA	C8-C10-C11-C12
22	b	6021	CLA	C5-C6-C7-C8
22	b	6024	CLA	C10-C11-C12-C13
22	c	6030	CLA	C8-C10-C11-C12
23	A	1038	PHO	C13-C15-C16-C17
23	a	6038	PHO	C13-C15-C16-C17
22	D	1005	CLA	C2C-C3C-CAC-CBC
22	d	6005	CLA	C2C-C3C-CAC-CBC
22	c	6037	CLA	CBA-CGA-O2A-C1
26	A	1063	LHG	C35-C36-C37-C38
26	a	6063	LHG	C35-C36-C37-C38
28	L	1061	MGE	O1A-C1A-O1G-C1G
28	l	6061	MGE	O1A-C1A-O1G-C1G
28	L	1061	MGE	C1A-C2A-C3A-C4A
28	l	6061	MGE	C1A-C2A-C3A-C4A
22	B	1009	CLA	C13-C15-C16-C17
22	C	1032	CLA	C10-C11-C12-C13
22	C	1033	CLA	C5-C6-C7-C8
22	D	1004	CLA	C8-C10-C11-C12
22	b	6009	CLA	C13-C15-C16-C17
22	c	6033	CLA	C5-C6-C7-C8
22	d	6004	CLA	C8-C10-C11-C12
28	B	1060	MGE	CBB-CCB-CDB-CEB
28	b	6060	MGE	CBB-CCB-CDB-CEB
22	B	1014	CLA	C8-C10-C11-C12
22	B	1020	CLA	C13-C15-C16-C17
22	b	6014	CLA	C8-C10-C11-C12
22	b	6020	CLA	C13-C15-C16-C17

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Mol	Chain	Res	Type	Atoms
22	C	1031	CLA	C13-C15-C16-C17
22	H	1017	CLA	C5-C6-C7-C8
22	c	6031	CLA	C13-C15-C16-C17
22	h	6017	CLA	C5-C6-C7-C8
22	C	1037	CLA	CBA-CGA-O2A-C1
22	H	1017	CLA	CBA-CGA-O2A-C1
22	h	6017	CLA	CBA-CGA-O2A-C1
22	B	1021	CLA	C10-C11-C12-C13
22	b	6021	CLA	C10-C11-C12-C13
22	B	1013	CLA	C3-C5-C6-C7
22	b	6013	CLA	C3-C5-C6-C7
29	C	1057	DGD	O6D-C5D-C6D-O5D
29	c	6057	DGD	O6D-C5D-C6D-O5D
25	B	1047	BCR	C13-C14-C15-C16
25	B	1048	BCR	C19-C20-C21-C22
25	T	6048	BCR	C19-C20-C21-C22
25	b	6047	BCR	C13-C14-C15-C16
22	B	1023	CLA	C10-C11-C12-C13
22	b	6023	CLA	C10-C11-C12-C13
23	A	1038	PHO	C2A-CAA-CBA-CGA
23	a	6038	PHO	C2A-CAA-CBA-CGA
22	C	1032	CLA	CBA-CGA-O2A-C1
22	c	6032	CLA	CBA-CGA-O2A-C1
22	C	1028	CLA	C15-C16-C17-C18
22	C	1029	CLA	C8-C10-C11-C12
22	C	1035	CLA	C13-C15-C16-C17
22	D	1004	CLA	C13-C15-C16-C17
22	D	1008	CLA	C10-C11-C12-C13
22	H	1017	CLA	C10-C11-C12-C13
22	c	6028	CLA	C15-C16-C17-C18
22	c	6029	CLA	C8-C10-C11-C12
22	c	6035	CLA	C13-C15-C16-C17
22	d	6004	CLA	C13-C15-C16-C17
22	d	6008	CLA	C10-C11-C12-C13
22	h	6017	CLA	C10-C11-C12-C13
22	A	1007	CLA	C8-C10-C11-C12
22	B	1016	CLA	C5-C6-C7-C8
22	a	6007	CLA	C8-C10-C11-C12
22	b	6016	CLA	C5-C6-C7-C8
22	B	1012	CLA	C4C-C3C-CAC-CBC
22	b	6012	CLA	C4C-C3C-CAC-CBC
29	C	1057	DGD	C6B-C7B-C8B-C9B

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Mol	Chain	Res	Type	Atoms
29	c	6057	DGD	C6B-C7B-C8B-C9B
22	A	1006	CLA	C15-C16-C17-C18
22	B	1010	CLA	C10-C11-C12-C13
22	C	1026	CLA	C10-C11-C12-C13
22	C	1027	CLA	C8-C10-C11-C12
22	C	1028	CLA	C5-C6-C7-C8
22	C	1030	CLA	C10-C11-C12-C13
22	C	1037	CLA	C13-C15-C16-C17
22	a	6006	CLA	C15-C16-C17-C18
22	b	6010	CLA	C10-C11-C12-C13
22	c	6026	CLA	C10-C11-C12-C13
22	c	6027	CLA	C8-C10-C11-C12
22	c	6028	CLA	C5-C6-C7-C8
22	c	6030	CLA	C10-C11-C12-C13
22	c	6037	CLA	C13-C15-C16-C17
22	A	1007	CLA	CBA-CGA-O2A-C1
22	a	6007	CLA	CBA-CGA-O2A-C1
22	B	1012	CLA	C4-C3-C5-C6
22	b	6012	CLA	C4-C3-C5-C6
22	C	1029	CLA	C15-C16-C17-C18
22	c	6029	CLA	C15-C16-C17-C18
22	B	1014	CLA	C3-C5-C6-C7
22	b	6014	CLA	C3-C5-C6-C7
29	B	1058	DGD	CFB-CGB-CHB-CIB
29	b	6058	DGD	CFB-CGB-CHB-CIB
28	D	1062	MGE	C2D-C1D-O3G-C3G
28	d	6062	MGE	C2D-C1D-O3G-C3G
29	B	1058	DGD	C2D-C1D-O3G-C3G
29	C	1057	DGD	C2D-C1D-O3G-C3G
29	C	1057	DGD	C2E-C1E-O5D-C6D
29	b	6058	DGD	C2D-C1D-O3G-C3G
29	c	6057	DGD	C2D-C1D-O3G-C3G
29	c	6057	DGD	C2E-C1E-O5D-C6D
22	C	1032	CLA	CBD-CGD-O2D-CED
22	B	1013	CLA	C16-C17-C18-C20
22	B	1014	CLA	C16-C17-C18-C19
22	b	6013	CLA	C16-C17-C18-C20
22	b	6014	CLA	C16-C17-C18-C19
22	B	1018	CLA	C15-C16-C17-C18
22	b	6018	CLA	C15-C16-C17-C18
25	A	1044	BCR	C16-C17-C18-C36
25	B	1047	BCR	C16-C17-C18-C36

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Mol	Chain	Res	Type	Atoms
25	C	1052	BCR	C20-C21-C22-C37
25	H	1049	BCR	C16-C17-C18-C36
25	K	1051	BCR	C16-C17-C18-C36
25	a	6044	BCR	C16-C17-C18-C36
25	b	6047	BCR	C16-C17-C18-C36
25	h	6049	BCR	C16-C17-C18-C36
25	k	6052	BCR	C20-C21-C22-C37
25	k	6051	BCR	C16-C17-C18-C36
22	a	6006	CLA	C3-C5-C6-C7
28	B	1060	MGE	C1B-C2B-C3B-C4B
28	b	6060	MGE	C1B-C2B-C3B-C4B
22	C	1037	CLA	C8-C10-C11-C12
22	c	6037	CLA	C8-C10-C11-C12
25	A	1044	BCR	C7-C8-C9-C34
25	B	1045	BCR	C36-C18-C19-C20
25	D	1050	BCR	C7-C8-C9-C34
25	a	6044	BCR	C7-C8-C9-C34
25	b	6045	BCR	C36-C18-C19-C20
25	d	6050	BCR	C7-C8-C9-C34
25	A	1044	BCR	C7-C8-C9-C10
25	H	1049	BCR	C7-C8-C9-C10
25	a	6044	BCR	C7-C8-C9-C10
25	h	6049	BCR	C7-C8-C9-C10
22	C	1027	CLA	O1A-CGA-O2A-C1
22	c	6027	CLA	O1A-CGA-O2A-C1
22	H	1017	CLA	C2A-CAA-CBA-CGA
22	h	6017	CLA	C2A-CAA-CBA-CGA
22	c	6032	CLA	CBD-CGD-O2D-CED
22	B	1020	CLA	O2A-C1-C2-C3
22	B	1022	CLA	O2A-C1-C2-C3
22	b	6020	CLA	O2A-C1-C2-C3
22	b	6022	CLA	O2A-C1-C2-C3
26	A	1063	LHG	C6-C5-O7-C7
26	a	6063	LHG	C6-C5-O7-C7
28	L	1061	MGE	C1G-C2G-O2G-C1B
28	l	6061	MGE	C1G-C2G-O2G-C1B
22	A	1007	CLA	C16-C17-C18-C20
22	B	1016	CLA	C16-C17-C18-C20
22	B	1018	CLA	C16-C17-C18-C19
22	C	1028	CLA	C16-C17-C18-C19
22	C	1031	CLA	C16-C17-C18-C20
22	a	6007	CLA	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
22	b	6016	CLA	C16-C17-C18-C20
22	b	6018	CLA	C16-C17-C18-C19
22	c	6028	CLA	C16-C17-C18-C19
22	c	6031	CLA	C16-C17-C18-C20
28	L	1061	MGE	C7A-C8A-C9A-CAA
28	l	6061	MGE	C7A-C8A-C9A-CAA
22	A	1006	CLA	C3-C5-C6-C7
25	A	1044	BCR	C16-C17-C18-C19
25	B	1047	BCR	C16-C17-C18-C19
25	C	1052	BCR	C20-C21-C22-C23
25	H	1049	BCR	C16-C17-C18-C19
25	K	1051	BCR	C16-C17-C18-C19
25	Z	1053	BCR	C20-C21-C22-C23
25	a	6044	BCR	C16-C17-C18-C19
25	b	6047	BCR	C16-C17-C18-C19
25	h	6049	BCR	C16-C17-C18-C19
25	k	6052	BCR	C20-C21-C22-C23
25	k	6051	BCR	C16-C17-C18-C19
25	z	6053	BCR	C20-C21-C22-C23
29	C	1057	DGD	O6E-C1E-O5D-C6D
29	c	6057	DGD	O6E-C1E-O5D-C6D
29	B	1058	DGD	C2B-C1B-O2G-C2G
29	b	6058	DGD	C2B-C1B-O2G-C2G
29	C	1056	DGD	C4D-C5D-C6D-O5D
29	c	6056	DGD	C4D-C5D-C6D-O5D
24	A	1043	PQ9	C17-C18-C20-C21
24	a	6043	PQ9	C17-C18-C20-C21
26	A	1063	LHG	C24-C23-O8-C6
26	a	6063	LHG	C24-C23-O8-C6
22	B	1011	CLA	C10-C11-C12-C13
22	H	1017	CLA	CBD-CGD-O2D-CED
22	h	6017	CLA	CBD-CGD-O2D-CED
22	c	6032	CLA	C3-C5-C6-C7
22	B	1021	CLA	C2-C1-O2A-CGA
22	b	6021	CLA	C2-C1-O2A-CGA
22	B	1011	CLA	C16-C17-C18-C19
22	B	1021	CLA	C16-C17-C18-C19
22	b	6011	CLA	C16-C17-C18-C19
22	b	6021	CLA	C16-C17-C18-C19
22	C	1033	CLA	C10-C11-C12-C13
22	b	6011	CLA	C10-C11-C12-C13
22	c	6032	CLA	C8-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
22	c	6033	CLA	C10-C11-C12-C13
29	C	1057	DGD	C4D-C5D-C6D-O5D
29	c	6057	DGD	C4D-C5D-C6D-O5D
22	b	6011	CLA	O1D-CGD-O2D-CED
25	Z	1053	BCR	C14-C15-C16-C17
25	z	6053	BCR	C14-C15-C16-C17
29	C	1056	DGD	C5A-C6A-C7A-C8A
29	c	6056	DGD	C5A-C6A-C7A-C8A
22	B	1011	CLA	O1D-CGD-O2D-CED
26	A	1063	LHG	C7-C8-C9-C10
26	a	6063	LHG	C7-C8-C9-C10
28	D	1062	MGE	CAB-CBB-CCB-CDB
28	B	1060	MGE	C2A-C1A-O1G-C1G
28	b	6060	MGE	C2A-C1A-O1G-C1G
28	d	6062	MGE	CAB-CBB-CCB-CDB
29	B	1058	DGD	C2B-C3B-C4B-C5B
29	C	1057	DGD	C6A-C7A-C8A-C9A
29	b	6058	DGD	C6A-C7A-C8A-C9A
29	b	6058	DGD	C2B-C3B-C4B-C5B
29	c	6057	DGD	C6A-C7A-C8A-C9A
26	A	1063	LHG	O1-C1-C2-O2
26	a	6063	LHG	O1-C1-C2-O2
29	B	1058	DGD	C6A-C7A-C8A-C9A
22	C	1028	CLA	O1D-CGD-O2D-CED
22	c	6028	CLA	O1D-CGD-O2D-CED
22	C	1028	CLA	C4B-C3B-CAB-CBB
22	H	1017	CLA	C4B-C3B-CAB-CBB
22	c	6028	CLA	C4B-C3B-CAB-CBB
22	h	6017	CLA	C4B-C3B-CAB-CBB
28	D	1062	MGE	C1B-C2B-C3B-C4B
28	d	6062	MGE	C1B-C2B-C3B-C4B
29	C	1055	DGD	C5A-C6A-C7A-C8A
29	C	1057	DGD	C2A-C3A-C4A-C5A
29	c	6055	DGD	C5A-C6A-C7A-C8A
29	c	6057	DGD	C2A-C3A-C4A-C5A
22	B	1016	CLA	C16-C17-C18-C19
22	C	1025	CLA	C16-C17-C18-C19
22	C	1031	CLA	C16-C17-C18-C19
22	C	1033	CLA	C16-C17-C18-C19
22	D	1005	CLA	C16-C17-C18-C19
22	b	6016	CLA	C16-C17-C18-C19
22	c	6025	CLA	C16-C17-C18-C19

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Mol	Chain	Res	Type	Atoms
22	c	6031	CLA	C16-C17-C18-C19
22	c	6033	CLA	C16-C17-C18-C19
22	d	6005	CLA	C16-C17-C18-C19
22	B	1019	CLA	C5-C6-C7-C8
22	B	1024	CLA	C15-C16-C17-C18
22	C	1025	CLA	C5-C6-C7-C8
22	b	6019	CLA	C5-C6-C7-C8
22	b	6024	CLA	C15-C16-C17-C18
28	L	1061	MGE	C2B-C1B-O2G-C2G
28	l	6061	MGE	C2B-C1B-O2G-C2G
28	L	1061	MGE	CCB-CDB-CEB-CFB
28	l	6061	MGE	CCB-CDB-CEB-CFB
29	C	1055	DGD	CBB-CCB-CDB-CEB
29	c	6055	DGD	CBB-CCB-CDB-CEB
22	B	1019	CLA	C12-C13-C15-C16
22	C	1028	CLA	C11-C10-C8-C7
22	C	1028	CLA	C11-C12-C13-C15
22	C	1037	CLA	C11-C10-C8-C7
22	b	6019	CLA	C12-C13-C15-C16
22	c	6028	CLA	C11-C10-C8-C7
22	c	6028	CLA	C11-C12-C13-C15
22	c	6037	CLA	C11-C10-C8-C7
28	B	1060	MGE	C8A-C9A-CAA-CBA
28	b	6060	MGE	C8A-C9A-CAA-CBA
29	C	1055	DGD	C2A-C3A-C4A-C5A
29	c	6055	DGD	C2A-C3A-C4A-C5A
29	C	1057	DGD	C2A-C1A-O1G-C1G
29	c	6057	DGD	C2A-C1A-O1G-C1G
22	B	1020	CLA	C10-C11-C12-C13
22	b	6020	CLA	C10-C11-C12-C13
22	c	6025	CLA	C5-C6-C7-C8
22	A	1006	CLA	C3A-C2A-CAA-CBA
22	A	1007	CLA	C3A-C2A-CAA-CBA
22	B	1014	CLA	C3A-C2A-CAA-CBA
22	B	1021	CLA	C3A-C2A-CAA-CBA
22	C	1036	CLA	C3A-C2A-CAA-CBA
22	a	6006	CLA	C3A-C2A-CAA-CBA
22	b	6014	CLA	C3A-C2A-CAA-CBA
22	b	6021	CLA	C3A-C2A-CAA-CBA
22	c	6036	CLA	C3A-C2A-CAA-CBA
28	d	6062	MGE	C2B-C3B-C4B-C5B
28	D	1062	MGE	C2B-C3B-C4B-C5B

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Mol	Chain	Res	Type	Atoms
22	A	1007	CLA	C5-C6-C7-C8
22	B	1018	CLA	C10-C11-C12-C13
22	a	6007	CLA	C5-C6-C7-C8
22	b	6018	CLA	C10-C11-C12-C13
22	c	6032	CLA	C13-C15-C16-C17
28	B	1060	MGE	C6A-C7A-C8A-C9A
22	B	1018	CLA	C3-C5-C6-C7
22	C	1032	CLA	C3-C5-C6-C7
22	b	6018	CLA	C3-C5-C6-C7
28	L	1061	MGE	C1B-C2B-C3B-C4B
28	l	6061	MGE	C1B-C2B-C3B-C4B
22	B	1019	CLA	C10-C11-C12-C13
28	D	1059	MGE	C6A-C7A-C8A-C9A
28	d	6059	MGE	C6A-C7A-C8A-C9A
28	b	6060	MGE	C6A-C7A-C8A-C9A
29	C	1055	DGD	C8A-C9A-CAA-CBA
29	c	6055	DGD	C8A-C9A-CAA-CBA
29	C	1056	DGD	C6A-C7A-C8A-C9A
22	C	1036	CLA	C10-C11-C12-C13
22	b	6019	CLA	C10-C11-C12-C13
29	c	6056	DGD	C6A-C7A-C8A-C9A
22	D	1008	CLA	C16-C17-C18-C19
22	d	6008	CLA	C16-C17-C18-C19
22	B	1013	CLA	C2B-C3B-CAB-CBB
22	H	1017	CLA	C2B-C3B-CAB-CBB
22	K	1034	CLA	C2B-C3B-CAB-CBB
22	b	6013	CLA	C2B-C3B-CAB-CBB
22	h	6017	CLA	C2B-C3B-CAB-CBB
22	k	6034	CLA	C2B-C3B-CAB-CBB
25	C	1052	BCR	C5-C6-C7-C8
25	D	1050	BCR	C1-C6-C7-C8
25	Z	1053	BCR	C1-C6-C7-C8
25	Z	1053	BCR	C5-C6-C7-C8
25	d	6050	BCR	C1-C6-C7-C8
25	k	6052	BCR	C5-C6-C7-C8
25	z	6053	BCR	C1-C6-C7-C8
25	z	6053	BCR	C5-C6-C7-C8
29	c	6057	DGD	C7B-C8B-C9B-CAB
22	C	1032	CLA	C2C-C3C-CAC-CBC
22	B	1024	CLA	C5-C6-C7-C8
22	b	6024	CLA	C5-C6-C7-C8
22	c	6036	CLA	C10-C11-C12-C13

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Mol	Chain	Res	Type	Atoms
26	A	1063	LHG	C31-C32-C33-C34
26	a	6063	LHG	C31-C32-C33-C34
29	C	1057	DGD	CAA-CBA-CCA-CDA
29	C	1057	DGD	C7B-C8B-C9B-CAB
29	c	6057	DGD	C9A-CAA-CBA-CCA
29	c	6057	DGD	CAA-CBA-CCA-CDA
22	c	6032	CLA	C2C-C3C-CAC-CBC
29	C	1057	DGD	C9A-CAA-CBA-CCA
22	k	6034	CLA	C15-C16-C17-C18
26	A	1063	LHG	O10-C23-O8-C6
26	a	6063	LHG	O10-C23-O8-C6
28	B	1060	MGE	O1A-C1A-O1G-C1G
28	b	6060	MGE	O1A-C1A-O1G-C1G
28	d	6059	MGE	C2A-C3A-C4A-C5A
29	B	1058	DGD	O1B-C1B-O2G-C2G
29	b	6058	DGD	O1B-C1B-O2G-C2G
28	B	1060	MGE	C4A-C5A-C6A-C7A
28	D	1059	MGE	C2A-C3A-C4A-C5A
28	b	6060	MGE	C4A-C5A-C6A-C7A
29	C	1055	DGD	C3B-C4B-C5B-C6B
29	c	6055	DGD	C3B-C4B-C5B-C6B
25	C	1052	BCR	C18-C19-C20-C21
25	k	6052	BCR	C18-C19-C20-C21
22	K	1034	CLA	C15-C16-C17-C18
22	B	1012	CLA	C2-C3-C5-C6
22	b	6012	CLA	C2-C3-C5-C6
28	D	1062	MGE	C6B-C7B-C8B-C9B
28	d	6062	MGE	C6B-C7B-C8B-C9B
22	K	1034	CLA	C11-C12-C13-C14
22	k	6034	CLA	C11-C12-C13-C14
25	C	1054	BCR	C6-C7-C8-C9
25	K	1051	BCR	C6-C7-C8-C9
25	c	6054	BCR	C6-C7-C8-C9
25	k	6051	BCR	C6-C7-C8-C9
29	C	1057	DGD	O1A-C1A-O1G-C1G
29	c	6057	DGD	O1A-C1A-O1G-C1G
29	C	1055	DGD	C4A-C5A-C6A-C7A
29	C	1056	DGD	C9B-CAB-CBB-CCB
29	c	6055	DGD	C4A-C5A-C6A-C7A
29	c	6056	DGD	C9B-CAB-CBB-CCB
25	K	1051	BCR	C9-C10-C11-C12
25	k	6051	BCR	C9-C10-C11-C12

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Mol	Chain	Res	Type	Atoms
28	B	1060	MGE	C2B-C1B-O2G-C2G
28	b	6060	MGE	C2B-C1B-O2G-C2G
29	C	1057	DGD	CFB-CGB-CHB-CIB
29	c	6057	DGD	CFB-CGB-CHB-CIB
29	C	1055	DGD	CAA-CBA-CCA-CDA
29	c	6055	DGD	CAA-CBA-CCA-CDA
22	B	1011	CLA	C15-C16-C17-C18
22	B	1013	CLA	C15-C16-C17-C18
22	b	6013	CLA	C15-C16-C17-C18
28	L	1061	MGE	O1B-C1B-O2G-C2G
28	l	6061	MGE	O1B-C1B-O2G-C2G
22	k	6034	CLA	O1D-CGD-O2D-CED
29	C	1056	DGD	CFB-CGB-CHB-CIB
29	c	6056	DGD	CFB-CGB-CHB-CIB
22	C	1027	CLA	C15-C16-C17-C18
22	b	6011	CLA	C15-C16-C17-C18
22	c	6027	CLA	C15-C16-C17-C18
25	C	1054	BCR	C36-C18-C19-C20
25	c	6054	BCR	C36-C18-C19-C20
28	D	1062	MGE	CBB-CCB-CDB-CEB
28	d	6062	MGE	CBB-CCB-CDB-CEB
29	C	1055	DGD	C9A-CAA-CBA-CCA
25	C	1054	BCR	C17-C18-C19-C20
25	c	6054	BCR	C17-C18-C19-C20
29	C	1055	DGD	CFB-CGB-CHB-CIB
29	c	6055	DGD	CFB-CGB-CHB-CIB
29	c	6055	DGD	C9A-CAA-CBA-CCA
22	B	1015	CLA	C2A-CAA-CBA-CGA
22	C	1026	CLA	C2A-CAA-CBA-CGA
22	b	6015	CLA	C2A-CAA-CBA-CGA
22	c	6026	CLA	C2A-CAA-CBA-CGA
22	D	1008	CLA	C16-C17-C18-C20
22	d	6008	CLA	C16-C17-C18-C20
22	b	6010	CLA	O1D-CGD-O2D-CED
29	C	1056	DGD	CBA-CCA-CDA-CEA
22	K	1034	CLA	O1D-CGD-O2D-CED
29	C	1055	DGD	C7B-C8B-C9B-CAB
29	c	6055	DGD	C7B-C8B-C9B-CAB
29	c	6056	DGD	CBA-CCA-CDA-CEA
29	c	6057	DGD	C8A-C9A-CAA-CBA
22	B	1010	CLA	O1D-CGD-O2D-CED
29	C	1057	DGD	C8A-C9A-CAA-CBA

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Mol	Chain	Res	Type	Atoms
22	B	1016	CLA	C15-C16-C17-C18
28	D	1062	MGE	C5B-C6B-C7B-C8B
28	d	6062	MGE	C7A-C8A-C9A-CAA
28	d	6062	MGE	C5B-C6B-C7B-C8B
28	D	1062	MGE	C7A-C8A-C9A-CAA
22	b	6024	CLA	C8-C10-C11-C12
22	A	1007	CLA	C16-C17-C18-C19
22	B	1012	CLA	C16-C17-C18-C19
22	B	1013	CLA	C16-C17-C18-C19
22	B	1018	CLA	C16-C17-C18-C20
22	a	6007	CLA	C16-C17-C18-C19
22	b	6012	CLA	C16-C17-C18-C19
22	b	6013	CLA	C16-C17-C18-C19
22	b	6018	CLA	C16-C17-C18-C20
29	C	1055	DGD	C1A-C2A-C3A-C4A
29	c	6055	DGD	C1A-C2A-C3A-C4A
22	B	1015	CLA	C13-C15-C16-C17
22	B	1024	CLA	C8-C10-C11-C12
22	b	6015	CLA	C13-C15-C16-C17
22	b	6016	CLA	C15-C16-C17-C18
29	C	1057	DGD	O2G-C2G-C3G-O3G
29	c	6057	DGD	O2G-C2G-C3G-O3G
22	B	1009	CLA	C4C-C3C-CAC-CBC
22	b	6009	CLA	C4C-C3C-CAC-CBC
28	D	1062	MGE	C9B-CAB-CBB-CCB
28	d	6062	MGE	C9B-CAB-CBB-CCB
28	D	1062	MGE	C4B-C5B-C6B-C7B
28	D	1062	MGE	C7B-C8B-C9B-CAB
28	d	6062	MGE	C4B-C5B-C6B-C7B
28	d	6062	MGE	C7B-C8B-C9B-CAB
29	C	1056	DGD	C8A-C9A-CAA-CBA
29	c	6056	DGD	C8A-C9A-CAA-CBA
26	A	1063	LHG	C15-C16-C17-C18
26	a	6063	LHG	C15-C16-C17-C18
29	B	1058	DGD	CAA-CBA-CCA-CDA
29	b	6058	DGD	CAA-CBA-CCA-CDA
28	D	1062	MGE	C3A-C4A-C5A-C6A
28	D	1062	MGE	C4A-C5A-C6A-C7A
28	d	6062	MGE	C4A-C5A-C6A-C7A
22	B	1011	CLA	CBA-CGA-O2A-C1
22	C	1033	CLA	CBA-CGA-O2A-C1
22	b	6011	CLA	CBA-CGA-O2A-C1

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Mol	Chain	Res	Type	Atoms
22	c	6033	CLA	CBA-CGA-O2A-C1
28	d	6062	MGE	C3A-C4A-C5A-C6A
22	C	1036	CLA	C15-C16-C17-C18
22	H	1017	CLA	C8-C10-C11-C12
22	c	6036	CLA	C15-C16-C17-C18
22	h	6017	CLA	C8-C10-C11-C12
29	C	1057	DGD	CBB-CCB-CDB-CEB
29	c	6057	DGD	CBB-CCB-CDB-CEB
22	B	1011	CLA	C1A-C2A-CAA-CBA
22	B	1013	CLA	C1A-C2A-CAA-CBA
22	B	1021	CLA	C1A-C2A-CAA-CBA
22	C	1025	CLA	C1A-C2A-CAA-CBA
22	C	1028	CLA	C1A-C2A-CAA-CBA
22	C	1037	CLA	C1A-C2A-CAA-CBA
22	b	6011	CLA	C1A-C2A-CAA-CBA
22	b	6013	CLA	C1A-C2A-CAA-CBA
22	b	6021	CLA	C1A-C2A-CAA-CBA
22	c	6025	CLA	C1A-C2A-CAA-CBA
22	c	6028	CLA	C1A-C2A-CAA-CBA
22	c	6037	CLA	C1A-C2A-CAA-CBA
22	C	1032	CLA	C8-C10-C11-C12
22	B	1020	CLA	C2C-C3C-CAC-CBC
28	B	1060	MGE	O1B-C1B-O2G-C2G
28	b	6060	MGE	O1B-C1B-O2G-C2G
22	A	1003	CLA	C11-C10-C8-C7
22	B	1011	CLA	C11-C12-C13-C15
22	B	1014	CLA	C11-C10-C8-C7
22	B	1022	CLA	C6-C7-C8-C10
22	C	1027	CLA	C12-C13-C15-C16
22	C	1028	CLA	C12-C13-C15-C16
22	C	1035	CLA	C11-C10-C8-C7
22	C	1037	CLA	C11-C12-C13-C15
22	D	1005	CLA	C6-C7-C8-C10
22	D	1008	CLA	C11-C10-C8-C7
22	H	1017	CLA	C11-C12-C13-C15
22	a	6003	CLA	C11-C10-C8-C7
22	b	6011	CLA	C11-C12-C13-C15
22	b	6014	CLA	C11-C10-C8-C7
22	b	6022	CLA	C6-C7-C8-C10
22	c	6027	CLA	C12-C13-C15-C16
22	c	6028	CLA	C12-C13-C15-C16
22	c	6035	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
22	c	6037	CLA	C11-C12-C13-C15
22	d	6005	CLA	C6-C7-C8-C10
22	d	6008	CLA	C11-C10-C8-C7
22	h	6017	CLA	C11-C12-C13-C15
22	b	6020	CLA	C2C-C3C-CAC-CBC
28	L	1061	MGE	C6B-C7B-C8B-C9B
28	l	6061	MGE	C6B-C7B-C8B-C9B
29	C	1056	DGD	C2A-C3A-C4A-C5A
22	A	1006	CLA	C4-C3-C5-C6
22	a	6006	CLA	C4-C3-C5-C6
24	D	1042	PQ9	C34-C33-C35-C36
24	d	6042	PQ9	C34-C33-C35-C36
29	c	6056	DGD	C2A-C3A-C4A-C5A
22	B	1018	CLA	C2C-C3C-CAC-CBC
22	b	6018	CLA	C2C-C3C-CAC-CBC
22	B	1010	CLA	C2A-CAA-CBA-CGA
22	b	6010	CLA	C2A-CAA-CBA-CGA
22	A	1003	CLA	C6-C7-C8-C9
22	A	1003	CLA	C11-C10-C8-C9
22	B	1016	CLA	C11-C12-C13-C14
22	B	1018	CLA	C11-C10-C8-C9
22	B	1021	CLA	C11-C10-C8-C9
22	B	1023	CLA	C11-C12-C13-C14
22	C	1035	CLA	C11-C10-C8-C9
22	C	1037	CLA	C14-C13-C15-C16
22	a	6003	CLA	C6-C7-C8-C9
22	a	6003	CLA	C11-C10-C8-C9
22	b	6016	CLA	C11-C12-C13-C14
22	b	6018	CLA	C11-C10-C8-C9
22	b	6021	CLA	C11-C10-C8-C9
22	b	6023	CLA	C11-C12-C13-C14
22	c	6035	CLA	C11-C10-C8-C9
22	c	6037	CLA	C14-C13-C15-C16
29	C	1056	DGD	C2E-C1E-O5D-C6D
29	c	6056	DGD	C2E-C1E-O5D-C6D
28	B	1060	MGE	C1G-C2G-C3G-O3G
28	D	1059	MGE	C1G-C2G-C3G-O3G
28	L	1061	MGE	O1G-C1G-C2G-C3G
28	b	6060	MGE	C1G-C2G-C3G-O3G
28	d	6059	MGE	C1G-C2G-C3G-O3G
28	l	6061	MGE	O1G-C1G-C2G-C3G
29	B	1058	DGD	O1G-C1G-C2G-C3G

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Mol	Chain	Res	Type	Atoms
29	C	1055	DGD	C1G-C2G-C3G-O3G
29	C	1056	DGD	O1G-C1G-C2G-C3G
29	C	1057	DGD	O1G-C1G-C2G-C3G
29	b	6058	DGD	O1G-C1G-C2G-C3G
29	c	6055	DGD	C1G-C2G-C3G-O3G
29	c	6056	DGD	O1G-C1G-C2G-C3G
29	c	6057	DGD	O1G-C1G-C2G-C3G
22	B	1015	CLA	C3-C5-C6-C7
22	b	6015	CLA	C3-C5-C6-C7
22	B	1021	CLA	C16-C17-C18-C20
22	C	1033	CLA	C16-C17-C18-C20
22	b	6021	CLA	C16-C17-C18-C20
22	c	6033	CLA	C16-C17-C18-C20
28	L	1061	MGE	C9B-CAB-CBB-CCB
28	l	6061	MGE	C9B-CAB-CBB-CCB
22	C	1037	CLA	O1A-CGA-O2A-C1
22	c	6037	CLA	O1A-CGA-O2A-C1
22	A	1006	CLA	C2-C3-C5-C6
22	C	1033	CLA	C2-C3-C5-C6
22	a	6006	CLA	C2-C3-C5-C6
22	c	6033	CLA	C2-C3-C5-C6
24	D	1042	PQ9	C32-C33-C35-C36
24	d	6042	PQ9	C32-C33-C35-C36
22	A	1007	CLA	O1A-CGA-O2A-C1
22	C	1032	CLA	O1A-CGA-O2A-C1
22	a	6007	CLA	O1A-CGA-O2A-C1
28	d	6062	MGE	C3B-C4B-C5B-C6B
26	A	1063	LHG	C26-C27-C28-C29
26	a	6063	LHG	C26-C27-C28-C29
28	D	1062	MGE	C3B-C4B-C5B-C6B
22	c	6032	CLA	O1A-CGA-O2A-C1
22	B	1011	CLA	O2A-C1-C2-C3
22	B	1013	CLA	O2A-C1-C2-C3
22	C	1026	CLA	O2A-C1-C2-C3
22	C	1036	CLA	O2A-C1-C2-C3
22	b	6011	CLA	O2A-C1-C2-C3
22	b	6013	CLA	O2A-C1-C2-C3
22	c	6026	CLA	O2A-C1-C2-C3
22	c	6036	CLA	O2A-C1-C2-C3
28	B	1060	MGE	C3G-C2G-O2G-C1B
28	b	6060	MGE	C3G-C2G-O2G-C1B
28	B	1060	MGE	C3A-C4A-C5A-C6A

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Mol	Chain	Res	Type	Atoms
28	b	6060	MGE	C3A-C4A-C5A-C6A
25	K	1051	BCR	C19-C20-C21-C22
25	k	6051	BCR	C19-C20-C21-C22
26	A	1063	LHG	C9-C10-C11-C12
26	A	1063	LHG	C10-C11-C12-C13
26	a	6063	LHG	C10-C11-C12-C13
22	B	1022	CLA	CBA-CGA-O2A-C1
22	C	1036	CLA	CBA-CGA-O2A-C1
22	b	6022	CLA	CBA-CGA-O2A-C1
22	c	6036	CLA	CBA-CGA-O2A-C1
26	A	1063	LHG	C17-C18-C19-C20
26	a	6063	LHG	C9-C10-C11-C12
26	a	6063	LHG	C17-C18-C19-C20
29	c	6055	DGD	C6B-C7B-C8B-C9B
28	D	1059	MGE	C6B-C7B-C8B-C9B
28	d	6059	MGE	C6B-C7B-C8B-C9B
29	C	1055	DGD	C6B-C7B-C8B-C9B
28	B	1060	MGE	C2B-C3B-C4B-C5B
28	b	6060	MGE	C2B-C3B-C4B-C5B
29	c	6055	DGD	CBA-CCA-CDA-CEA
29	C	1055	DGD	CBA-CCA-CDA-CEA
29	C	1056	DGD	C9A-CAA-CBA-CCA
29	C	1057	DGD	C3A-C4A-C5A-C6A
29	c	6056	DGD	C9A-CAA-CBA-CCA
29	c	6057	DGD	C3A-C4A-C5A-C6A
29	B	1058	DGD	O1G-C1G-C2G-O2G
29	b	6058	DGD	O1G-C1G-C2G-O2G
28	l	6061	MGE	C2A-C3A-C4A-C5A
22	D	1005	CLA	C4C-C3C-CAC-CBC
28	L	1061	MGE	C2A-C3A-C4A-C5A
29	C	1057	DGD	C4A-C5A-C6A-C7A
29	c	6057	DGD	C4A-C5A-C6A-C7A
22	d	6005	CLA	C4C-C3C-CAC-CBC
22	B	1023	CLA	C8-C10-C11-C12
22	b	6023	CLA	C8-C10-C11-C12
25	A	1044	BCR	C15-C16-C17-C18
25	B	1047	BCR	C9-C10-C11-C12
25	a	6044	BCR	C15-C16-C17-C18
25	b	6047	BCR	C9-C10-C11-C12
22	B	1018	CLA	C4-C3-C5-C6
22	C	1033	CLA	C4-C3-C5-C6
22	b	6018	CLA	C4-C3-C5-C6

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Mol	Chain	Res	Type	Atoms
22	c	6033	CLA	C4-C3-C5-C6
22	C	1030	CLA	C5-C6-C7-C8
22	c	6030	CLA	C5-C6-C7-C8
28	L	1061	MGE	C4D-C5D-C6D-O5D
28	l	6061	MGE	C4D-C5D-C6D-O5D
28	D	1059	MGE	C7A-C8A-C9A-CAA
28	d	6059	MGE	C7A-C8A-C9A-CAA
22	A	1003	CLA	C3-C5-C6-C7
22	a	6003	CLA	C3-C5-C6-C7
22	B	1009	CLA	C11-C10-C8-C9
22	B	1010	CLA	C11-C12-C13-C14
22	B	1011	CLA	C14-C13-C15-C16
22	B	1012	CLA	C14-C13-C15-C16
22	B	1014	CLA	C11-C10-C8-C9
22	B	1018	CLA	C6-C7-C8-C9
22	B	1023	CLA	C11-C10-C8-C9
22	C	1028	CLA	C14-C13-C15-C16
22	C	1030	CLA	C6-C7-C8-C9
22	D	1005	CLA	C6-C7-C8-C9
22	H	1017	CLA	C11-C12-C13-C14
22	H	1017	CLA	C14-C13-C15-C16
22	b	6009	CLA	C11-C10-C8-C9
22	b	6010	CLA	C11-C12-C13-C14
22	b	6011	CLA	C14-C13-C15-C16
22	b	6012	CLA	C14-C13-C15-C16
22	b	6014	CLA	C11-C10-C8-C9
22	b	6018	CLA	C6-C7-C8-C9
22	b	6023	CLA	C11-C10-C8-C9
22	c	6028	CLA	C14-C13-C15-C16
22	c	6030	CLA	C6-C7-C8-C9
22	d	6005	CLA	C6-C7-C8-C9
22	h	6017	CLA	C11-C12-C13-C14
22	h	6017	CLA	C14-C13-C15-C16
23	A	1038	PHO	C14-C13-C15-C16
23	a	6038	PHO	C14-C13-C15-C16
23	A	1038	PHO	C15-C16-C17-C18
23	a	6038	PHO	C15-C16-C17-C18
22	B	1011	CLA	C4B-C3B-CAB-CBB
22	B	1021	CLA	C4B-C3B-CAB-CBB
22	b	6011	CLA	C4B-C3B-CAB-CBB
22	b	6021	CLA	C4B-C3B-CAB-CBB
29	C	1055	DGD	C2D-C1D-O3G-C3G

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Mol	Chain	Res	Type	Atoms
29	c	6055	DGD	C2D-C1D-O3G-C3G
22	A	1003	CLA	C12-C13-C15-C16
22	A	1007	CLA	C11-C12-C13-C15
22	B	1011	CLA	C12-C13-C15-C16
22	B	1012	CLA	C6-C7-C8-C10
22	B	1012	CLA	C12-C13-C15-C16
22	B	1016	CLA	C6-C7-C8-C10
22	B	1018	CLA	C6-C7-C8-C10
22	B	1018	CLA	C11-C12-C13-C15
22	B	1019	CLA	C11-C12-C13-C15
22	B	1021	CLA	C11-C10-C8-C7
22	B	1021	CLA	C11-C12-C13-C15
22	B	1023	CLA	C11-C10-C8-C7
22	C	1025	CLA	C12-C13-C15-C16
22	C	1030	CLA	C6-C7-C8-C10
22	C	1032	CLA	C11-C12-C13-C15
22	C	1036	CLA	C11-C12-C13-C15
22	D	1005	CLA	C11-C12-C13-C15
22	H	1017	CLA	C6-C7-C8-C10
22	H	1017	CLA	C12-C13-C15-C16
22	K	1034	CLA	C6-C7-C8-C10
22	a	6003	CLA	C12-C13-C15-C16
22	a	6007	CLA	C11-C12-C13-C15
22	b	6011	CLA	C12-C13-C15-C16
22	b	6012	CLA	C6-C7-C8-C10
22	b	6012	CLA	C12-C13-C15-C16
22	b	6016	CLA	C6-C7-C8-C10
22	b	6018	CLA	C6-C7-C8-C10
22	b	6018	CLA	C11-C12-C13-C15
22	b	6019	CLA	C11-C12-C13-C15
22	b	6021	CLA	C11-C10-C8-C7
22	b	6021	CLA	C11-C12-C13-C15
22	b	6023	CLA	C11-C10-C8-C7
22	c	6025	CLA	C12-C13-C15-C16
22	c	6030	CLA	C6-C7-C8-C10
22	c	6036	CLA	C11-C12-C13-C15
22	d	6005	CLA	C11-C12-C13-C15
22	h	6017	CLA	C6-C7-C8-C10
22	h	6017	CLA	C12-C13-C15-C16
22	k	6034	CLA	C6-C7-C8-C10
23	A	1038	PHO	C6-C7-C8-C10
23	D	1039	PHO	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
23	a	6038	PHO	C6-C7-C8-C10
23	d	6039	PHO	C11-C10-C8-C7
28	D	1059	MGE	CDB-CEB-CFB-CGB
28	d	6059	MGE	CDB-CEB-CFB-CGB
29	C	1055	DGD	C9B-CAB-CBB-CCB
29	c	6055	DGD	C9B-CAB-CBB-CCB
22	A	1003	CLA	C3A-C2A-CAA-CBA
22	B	1022	CLA	C3A-C2A-CAA-CBA
22	C	1035	CLA	C4-C3-C5-C6
22	H	1017	CLA	C3A-C2A-CAA-CBA
22	a	6003	CLA	C3A-C2A-CAA-CBA
22	b	6022	CLA	C3A-C2A-CAA-CBA
22	c	6035	CLA	C4-C3-C5-C6
22	h	6017	CLA	C3A-C2A-CAA-CBA
23	D	1039	PHO	CBA-CGA-O2A-C1
23	d	6039	PHO	CBA-CGA-O2A-C1
29	C	1056	DGD	C2A-C1A-O1G-C1G
29	c	6056	DGD	C2A-C1A-O1G-C1G
29	B	1058	DGD	C8A-C9A-CAA-CBA
29	b	6058	DGD	C8A-C9A-CAA-CBA
25	C	1054	BCR	C13-C14-C15-C16
25	c	6054	BCR	C13-C14-C15-C16
22	K	1034	CLA	C10-C11-C12-C13
22	k	6034	CLA	C10-C11-C12-C13
22	A	1007	CLA	C2C-C3C-CAC-CBC
22	c	6035	CLA	O1D-CGD-O2D-CED
22	B	1023	CLA	C5-C6-C7-C8
22	b	6023	CLA	C5-C6-C7-C8
29	C	1057	DGD	C1G-C2G-C3G-O3G
29	c	6057	DGD	C1G-C2G-C3G-O3G
22	C	1035	CLA	O1D-CGD-O2D-CED
23	D	1039	PHO	C1-C2-C3-C4
23	d	6039	PHO	C1-C2-C3-C4
22	a	6007	CLA	C2C-C3C-CAC-CBC
22	B	1018	CLA	C2-C3-C5-C6
22	b	6018	CLA	C2-C3-C5-C6
28	d	6059	MGE	C3B-C4B-C5B-C6B
29	C	1055	DGD	C3A-C4A-C5A-C6A
28	D	1059	MGE	C3B-C4B-C5B-C6B
29	c	6055	DGD	C3A-C4A-C5A-C6A
22	B	1014	CLA	C16-C17-C18-C20
22	b	6014	CLA	C16-C17-C18-C20

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Mol	Chain	Res	Type	Atoms
29	C	1057	DGD	CAB-CBB-CCB-CDB
29	c	6057	DGD	CAB-CBB-CCB-CDB
25	B	1045	BCR	C5-C6-C7-C8
25	b	6045	BCR	C5-C6-C7-C8
26	A	1063	LHG	C14-C15-C16-C17
26	a	6063	LHG	C14-C15-C16-C17
22	B	1016	CLA	C10-C11-C12-C13
22	C	1026	CLA	C5-C6-C7-C8
22	C	1026	CLA	C8-C10-C11-C12
22	b	6016	CLA	C10-C11-C12-C13
22	c	6026	CLA	C5-C6-C7-C8
22	c	6026	CLA	C8-C10-C11-C12
29	B	1058	DGD	C9B-CAB-CBB-CCB
28	D	1059	MGE	C5B-C6B-C7B-C8B
28	d	6059	MGE	C5B-C6B-C7B-C8B
29	b	6058	DGD	C9B-CAB-CBB-CCB
22	C	1028	CLA	C16-C17-C18-C20
22	c	6028	CLA	C16-C17-C18-C20
22	B	1010	CLA	C8-C10-C11-C12
28	D	1059	MGE	O1G-C1G-C2G-O2G
28	d	6059	MGE	O1G-C1G-C2G-O2G
29	C	1056	DGD	O2G-C2G-C3G-O3G
29	c	6056	DGD	O2G-C2G-C3G-O3G
24	A	1043	PQ9	C12-C11-C2-C1
24	a	6043	PQ9	C12-C11-C2-C1
22	b	6010	CLA	C8-C10-C11-C12
22	C	1035	CLA	C2-C3-C5-C6
22	c	6035	CLA	C2-C3-C5-C6
23	D	1039	PHO	C1-C2-C3-C5
23	d	6039	PHO	C1-C2-C3-C5
28	B	1060	MGE	CAA-CBA-CCA-CDA
22	C	1026	CLA	C14-C13-C15-C16
22	C	1032	CLA	C11-C12-C13-C14
22	D	1008	CLA	C11-C10-C8-C9
22	c	6026	CLA	C14-C13-C15-C16
22	d	6008	CLA	C11-C10-C8-C9
28	b	6060	MGE	CAA-CBA-CCA-CDA
25	B	1045	BCR	C6-C7-C8-C9
25	T	6046	BCR	C6-C7-C8-C9
25	b	6045	BCR	C6-C7-C8-C9
25	t	1046	BCR	C6-C7-C8-C9
29	B	1058	DGD	C1B-C2B-C3B-C4B

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Mol	Chain	Res	Type	Atoms
29	b	6058	DGD	C1B-C2B-C3B-C4B
25	k	6052	BCR	C14-C15-C16-C17
22	B	1012	CLA	C16-C17-C18-C20
22	B	1023	CLA	C16-C17-C18-C19
22	C	1025	CLA	C16-C17-C18-C20
22	b	6011	CLA	C16-C17-C18-C20
22	b	6012	CLA	C16-C17-C18-C20
22	b	6023	CLA	C16-C17-C18-C19
22	c	6025	CLA	C16-C17-C18-C20
28	B	1060	MGE	C2A-C3A-C4A-C5A
28	b	6060	MGE	C2A-C3A-C4A-C5A
24	A	1043	PQ9	C18-C20-C21-C22
24	a	6043	PQ9	C18-C20-C21-C22
22	B	1013	CLA	C4-C3-C5-C6
22	b	6013	CLA	C4-C3-C5-C6
22	B	1011	CLA	C16-C17-C18-C20
22	D	1005	CLA	C16-C17-C18-C20
22	d	6005	CLA	C16-C17-C18-C20
22	A	1003	CLA	C13-C15-C16-C17
22	a	6003	CLA	C13-C15-C16-C17
22	A	1007	CLA	C15-C16-C17-C18
22	a	6007	CLA	C15-C16-C17-C18
28	D	1059	MGE	CCB-CDB-CEB-CFB
28	d	6059	MGE	CCB-CDB-CEB-CFB
25	T	6046	BCR	C16-C17-C18-C36
25	T	6046	BCR	C20-C21-C22-C37
25	t	1046	BCR	C16-C17-C18-C36
25	t	1046	BCR	C20-C21-C22-C37
22	B	1023	CLA	O1A-CGA-O2A-C1
22	b	6023	CLA	O1A-CGA-O2A-C1
22	D	1005	CLA	CBA-CGA-O2A-C1
22	B	1019	CLA	C8-C10-C11-C12
22	b	6019	CLA	C8-C10-C11-C12
28	B	1060	MGE	C9A-CAA-CBA-CCA
22	B	1009	CLA	C12-C13-C15-C16
22	B	1023	CLA	C6-C7-C8-C10
22	B	1024	CLA	C12-C13-C15-C16
22	C	1026	CLA	C6-C7-C8-C10
22	C	1026	CLA	C11-C12-C13-C15
22	C	1026	CLA	C12-C13-C15-C16
22	C	1029	CLA	C11-C12-C13-C15
22	C	1030	CLA	C11-C10-C8-C7

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Mol	Chain	Res	Type	Atoms
22	C	1035	CLA	C11-C12-C13-C15
22	b	6009	CLA	C12-C13-C15-C16
22	b	6023	CLA	C6-C7-C8-C10
22	b	6024	CLA	C12-C13-C15-C16
22	c	6026	CLA	C6-C7-C8-C10
22	c	6026	CLA	C11-C12-C13-C15
22	c	6026	CLA	C12-C13-C15-C16
22	c	6029	CLA	C11-C12-C13-C15
22	c	6030	CLA	C11-C10-C8-C7
22	c	6032	CLA	C11-C12-C13-C15
22	c	6035	CLA	C11-C12-C13-C15
23	D	1039	PHO	C11-C12-C13-C15
23	d	6039	PHO	C11-C12-C13-C15
28	b	6060	MGE	C9A-CAA-CBA-CCA
22	C	1028	CLA	C13-C15-C16-C17
22	C	1037	CLA	C10-C11-C12-C13
22	c	6028	CLA	C13-C15-C16-C17
22	c	6037	CLA	C10-C11-C12-C13
25	B	1045	BCR	C17-C18-C19-C20
25	D	1050	BCR	C7-C8-C9-C10
25	b	6045	BCR	C17-C18-C19-C20
25	d	6050	BCR	C7-C8-C9-C10
22	d	6005	CLA	CBA-CGA-O2A-C1
28	D	1059	MGE	C2G-C3G-O3G-C1D
28	L	1061	MGE	C2G-C3G-O3G-C1D
28	d	6059	MGE	C2G-C3G-O3G-C1D
28	l	6061	MGE	C2G-C3G-O3G-C1D
23	D	1039	PHO	C16-C17-C18-C20
23	d	6039	PHO	C16-C17-C18-C20
23	D	1039	PHO	O1A-CGA-O2A-C1
23	d	6039	PHO	O1A-CGA-O2A-C1
28	D	1062	MGE	C3G-C2G-O2G-C1B
28	d	6062	MGE	C3G-C2G-O2G-C1B
29	c	6056	DGD	O1A-C1A-O1G-C1G
22	A	1003	CLA	C16-C17-C18-C20
22	a	6003	CLA	C16-C17-C18-C20
29	C	1056	DGD	O1A-C1A-O1G-C1G
22	C	1029	CLA	C10-C11-C12-C13
22	c	6029	CLA	C10-C11-C12-C13
25	T	6046	BCR	C20-C21-C22-C23
25	t	1046	BCR	C20-C21-C22-C23
26	a	6063	LHG	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
28	b	6060	MGE	CDB-CEB-CFB-CGB
26	A	1063	LHG	C11-C10-C9-C8
24	A	1043	PQ9	C23-C25-C26-C27
26	A	1063	LHG	C4-C5-C6-O8
26	a	6063	LHG	C4-C5-C6-O8
29	B	1058	DGD	C1G-C2G-C3G-O3G
29	C	1056	DGD	C1G-C2G-C3G-O3G
29	b	6058	DGD	C1G-C2G-C3G-O3G
29	c	6056	DGD	C1G-C2G-C3G-O3G
28	B	1060	MGE	CDB-CEB-CFB-CGB
28	d	6059	MGE	C1A-C2A-C3A-C4A
22	B	1013	CLA	C2-C3-C5-C6
22	b	6013	CLA	C2-C3-C5-C6
28	D	1059	MGE	C1A-C2A-C3A-C4A
24	A	1043	PQ9	C12-C11-C2-C3
24	a	6043	PQ9	C12-C11-C2-C3
29	C	1057	DGD	C7A-C8A-C9A-CAA
22	B	1013	CLA	C13-C15-C16-C17
22	B	1020	CLA	C15-C16-C17-C18
22	b	6013	CLA	C13-C15-C16-C17
22	b	6020	CLA	C15-C16-C17-C18
29	c	6057	DGD	C7A-C8A-C9A-CAA
28	D	1059	MGE	O2G-C2G-C3G-O3G
28	L	1061	MGE	O1G-C1G-C2G-O2G
28	d	6059	MGE	O2G-C2G-C3G-O3G
28	l	6061	MGE	O1G-C1G-C2G-O2G
29	B	1058	DGD	O2G-C2G-C3G-O3G
29	C	1055	DGD	O2G-C2G-C3G-O3G
29	b	6058	DGD	O2G-C2G-C3G-O3G
29	c	6055	DGD	O2G-C2G-C3G-O3G
22	B	1024	CLA	C14-C13-C15-C16
22	b	6024	CLA	C14-C13-C15-C16
22	K	1034	CLA	C5-C6-C7-C8
22	k	6034	CLA	C5-C6-C7-C8
22	a	6006	CLA	O1D-CGD-O2D-CED
22	A	1006	CLA	O1D-CGD-O2D-CED
29	C	1057	DGD	C9B-CAB-CBB-CCB
29	c	6057	DGD	C9B-CAB-CBB-CCB
22	B	1012	CLA	C8-C10-C11-C12
22	C	1035	CLA	C5-C6-C7-C8
22	b	6012	CLA	C8-C10-C11-C12
22	c	6035	CLA	C5-C6-C7-C8

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Mol	Chain	Res	Type	Atoms
22	C	1027	CLA	C2A-CAA-CBA-CGA
22	c	6027	CLA	C2A-CAA-CBA-CGA
28	L	1061	MGE	CAB-CBB-CCB-CDB
28	l	6061	MGE	CAB-CBB-CCB-CDB
22	B	1023	CLA	C16-C17-C18-C20
22	b	6023	CLA	C16-C17-C18-C20
22	b	6009	CLA	C5-C6-C7-C8
25	C	1052	BCR	C14-C15-C16-C17
22	C	1033	CLA	O1A-CGA-O2A-C1
22	B	1021	CLA	O1A-CGA-O2A-C1
22	b	6021	CLA	O1A-CGA-O2A-C1
22	c	6033	CLA	O1A-CGA-O2A-C1
22	B	1009	CLA	C5-C6-C7-C8
24	a	6043	PQ9	C23-C25-C26-C27
22	B	1010	CLA	C4B-C3B-CAB-CBB
22	B	1022	CLA	C4B-C3B-CAB-CBB
22	D	1005	CLA	C4B-C3B-CAB-CBB
22	H	1017	CLA	C1A-C2A-CAA-CBA
22	b	6010	CLA	C4B-C3B-CAB-CBB
22	b	6022	CLA	C4B-C3B-CAB-CBB
22	d	6005	CLA	C4B-C3B-CAB-CBB
22	h	6017	CLA	C1A-C2A-CAA-CBA
24	A	1043	PQ9	C39-C38-C40-C41
24	a	6043	PQ9	C39-C38-C40-C41
23	D	1039	PHO	C16-C17-C18-C19
23	d	6039	PHO	C16-C17-C18-C19
29	b	6058	DGD	C8B-C9B-CAB-CBB
29	C	1055	DGD	CAB-CBB-CCB-CDB
29	c	6055	DGD	CAB-CBB-CCB-CDB
24	a	6043	PQ9	C40-C41-C42-C43
22	A	1006	CLA	C11-C10-C8-C7
22	A	1006	CLA	C11-C12-C13-C15
22	B	1013	CLA	C11-C12-C13-C15
22	B	1018	CLA	C12-C13-C15-C16
22	B	1021	CLA	C6-C7-C8-C10
22	C	1025	CLA	C6-C7-C8-C10
22	C	1029	CLA	C11-C10-C8-C7
22	C	1031	CLA	C6-C7-C8-C10
22	a	6006	CLA	C11-C10-C8-C7
22	a	6006	CLA	C11-C12-C13-C15
22	b	6013	CLA	C11-C12-C13-C15
22	b	6018	CLA	C12-C13-C15-C16

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Mol	Chain	Res	Type	Atoms
22	b	6021	CLA	C6-C7-C8-C10
22	c	6025	CLA	C6-C7-C8-C10
22	c	6029	CLA	C11-C10-C8-C7
22	c	6031	CLA	C6-C7-C8-C10
22	D	1004	CLA	C2C-C3C-CAC-CBC
28	L	1061	MGE	C6A-C7A-C8A-C9A
28	l	6061	MGE	C6A-C7A-C8A-C9A
29	B	1058	DGD	C8B-C9B-CAB-CBB
28	D	1059	MGE	C3A-C4A-C5A-C6A
28	d	6059	MGE	C3A-C4A-C5A-C6A
29	C	1057	DGD	C4B-C5B-C6B-C7B
29	c	6057	DGD	C4B-C5B-C6B-C7B
22	d	6004	CLA	C2C-C3C-CAC-CBC
26	A	1063	LHG	C2-C3-O3-P
26	a	6063	LHG	C2-C3-O3-P
22	A	1003	CLA	C16-C17-C18-C19
22	C	1031	CLA	C10-C11-C12-C13
22	K	1034	CLA	C13-C15-C16-C17
22	c	6031	CLA	C10-C11-C12-C13
22	k	6034	CLA	C13-C15-C16-C17
24	A	1043	PQ9	C40-C41-C42-C43
22	A	1003	CLA	C11-C12-C13-C14
22	C	1036	CLA	C11-C12-C13-C14
22	a	6003	CLA	C11-C12-C13-C14
22	c	6032	CLA	C11-C12-C13-C14
22	c	6036	CLA	C11-C12-C13-C14
29	B	1058	DGD	C7A-C8A-C9A-CAA
22	a	6003	CLA	C16-C17-C18-C19
29	b	6058	DGD	C7A-C8A-C9A-CAA
22	b	6020	CLA	C4C-C3C-CAC-CBC
22	B	1020	CLA	C4C-C3C-CAC-CBC
26	A	1063	LHG	O7-C5-C6-O8
26	a	6063	LHG	O7-C5-C6-O8
28	B	1060	MGE	O2G-C2G-C3G-O3G
28	b	6060	MGE	O2G-C2G-C3G-O3G
29	C	1056	DGD	O1G-C1G-C2G-O2G
29	c	6056	DGD	O1G-C1G-C2G-O2G
28	D	1059	MGE	O1G-C1G-C2G-C3G
28	d	6059	MGE	O1G-C1G-C2G-C3G
28	D	1062	MGE	CDB-CEB-CFB-CGB
28	d	6062	MGE	C4D-C5D-C6D-O5D
29	C	1055	DGD	CDA-CEA-CFA-CGA

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Mol	Chain	Res	Type	Atoms
29	c	6055	DGD	CDA-CEA-CFA-CGA
22	D	1005	CLA	C15-C16-C17-C18
22	b	6018	CLA	C8-C10-C11-C12
22	d	6005	CLA	C15-C16-C17-C18
28	d	6062	MGE	CDB-CEB-CFB-CGB
28	D	1062	MGE	C4D-C5D-C6D-O5D
22	C	1036	CLA	CAD-CBD-CGD-O2D
22	c	6036	CLA	CAD-CBD-CGD-O2D
22	B	1018	CLA	C8-C10-C11-C12
22	B	1020	CLA	C16-C17-C18-C19
22	b	6020	CLA	C16-C17-C18-C19
22	C	1030	CLA	O1A-CGA-O2A-C1
22	c	6030	CLA	O1A-CGA-O2A-C1
28	D	1059	MGE	C4B-C5B-C6B-C7B
28	d	6059	MGE	C4B-C5B-C6B-C7B
22	A	1007	CLA	CAD-CBD-CGD-O1D
22	B	1018	CLA	CHA-CBD-CGD-O1D
22	B	1020	CLA	CHA-CBD-CGD-O1D
22	C	1031	CLA	CHA-CBD-CGD-O1D
22	C	1032	CLA	CHA-CBD-CGD-O2D
22	C	1033	CLA	CAD-CBD-CGD-O1D
22	D	1004	CLA	CAD-CBD-CGD-O1D
22	H	1017	CLA	CHA-CBD-CGD-O1D
22	K	1034	CLA	CAD-CBD-CGD-O1D
22	a	6007	CLA	CAD-CBD-CGD-O1D
22	b	6018	CLA	CHA-CBD-CGD-O1D
22	b	6020	CLA	CHA-CBD-CGD-O1D
22	c	6031	CLA	CHA-CBD-CGD-O1D
22	c	6032	CLA	CHA-CBD-CGD-O2D
22	c	6033	CLA	CAD-CBD-CGD-O1D
22	d	6004	CLA	CAD-CBD-CGD-O1D
22	h	6017	CLA	CHA-CBD-CGD-O1D
22	k	6034	CLA	CAD-CBD-CGD-O1D
25	B	1047	BCR	C19-C20-C21-C22
25	b	6047	BCR	C19-C20-C21-C22
26	a	6063	LHG	C3-O3-P-O5
22	B	1022	CLA	C16-C17-C18-C20
22	C	1028	CLA	C2B-C3B-CAB-CBB
22	c	6028	CLA	C2B-C3B-CAB-CBB
25	C	1052	BCR	C1-C6-C7-C8
25	k	6052	BCR	C1-C6-C7-C8
29	c	6057	DGD	C5B-C6B-C7B-C8B

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Mol	Chain	Res	Type	Atoms
29	C	1057	DGD	C5B-C6B-C7B-C8B
29	C	1057	DGD	C5A-C6A-C7A-C8A
29	c	6055	DGD	C5B-C6B-C7B-C8B
22	C	1026	CLA	C16-C17-C18-C20
22	b	6022	CLA	C16-C17-C18-C20
22	c	6026	CLA	C16-C17-C18-C20
29	C	1055	DGD	C5B-C6B-C7B-C8B
29	c	6057	DGD	C5A-C6A-C7A-C8A
28	L	1061	MGE	C2B-C3B-C4B-C5B
28	l	6061	MGE	C2B-C3B-C4B-C5B
29	C	1057	DGD	C3B-C4B-C5B-C6B
29	c	6057	DGD	C3B-C4B-C5B-C6B
25	Z	1053	BCR	C18-C19-C20-C21
25	z	6053	BCR	C18-C19-C20-C21
25	B	1048	BCR	C9-C10-C11-C12
25	T	6048	BCR	C9-C10-C11-C12
22	A	1003	CLA	C14-C13-C15-C16
22	A	1006	CLA	C11-C10-C8-C9
22	B	1018	CLA	C14-C13-C15-C16
22	D	1004	CLA	C14-C13-C15-C16
22	a	6003	CLA	C14-C13-C15-C16
22	a	6006	CLA	C11-C10-C8-C9
22	b	6018	CLA	C14-C13-C15-C16
22	d	6004	CLA	C14-C13-C15-C16
28	l	6061	MGE	C4A-C5A-C6A-C7A
22	D	1004	CLA	C12-C13-C15-C16
22	d	6004	CLA	C12-C13-C15-C16
25	T	6046	BCR	C16-C17-C18-C19
25	t	1046	BCR	C16-C17-C18-C19
28	L	1061	MGE	C4A-C5A-C6A-C7A
22	C	1032	CLA	C4C-C3C-CAC-CBC
22	c	6032	CLA	C4C-C3C-CAC-CBC
28	L	1061	MGE	C5B-C6B-C7B-C8B
28	l	6061	MGE	C5B-C6B-C7B-C8B
25	B	1045	BCR	C13-C14-C15-C16
22	B	1022	CLA	C16-C17-C18-C19
22	b	6022	CLA	C16-C17-C18-C19
29	C	1056	DGD	CCA-CDA-CEA-CFA
29	c	6056	DGD	CCA-CDA-CEA-CFA
22	B	1022	CLA	C10-C11-C12-C13
22	b	6022	CLA	C10-C11-C12-C13
29	C	1057	DGD	C1B-C2B-C3B-C4B

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Mol	Chain	Res	Type	Atoms
25	b	6045	BCR	C13-C14-C15-C16
29	c	6057	DGD	C1B-C2B-C3B-C4B
22	A	1007	CLA	C4C-C3C-CAC-CBC
22	a	6007	CLA	C4C-C3C-CAC-CBC
22	B	1021	CLA	C6-C7-C8-C9
22	C	1029	CLA	C11-C10-C8-C9
22	b	6021	CLA	C6-C7-C8-C9
22	c	6029	CLA	C11-C10-C8-C9
22	C	1030	CLA	C16-C17-C18-C20
22	C	1037	CLA	C16-C17-C18-C20
22	c	6030	CLA	C16-C17-C18-C20
31	V	1041	HEM	CAD-CBD-CGD-O2D
31	v	6041	HEM	CAD-CBD-CGD-O2D
22	B	1010	CLA	C5-C6-C7-C8
22	B	1016	CLA	C13-C15-C16-C17
22	b	6010	CLA	C5-C6-C7-C8
22	b	6016	CLA	C13-C15-C16-C17
22	c	6037	CLA	C16-C17-C18-C20
26	A	1063	LHG	C34-C35-C36-C37
29	C	1056	DGD	C7B-C8B-C9B-CAB
29	c	6056	DGD	C7B-C8B-C9B-CAB
22	B	1014	CLA	C12-C13-C15-C16
22	B	1015	CLA	C6-C7-C8-C10
22	B	1024	CLA	C11-C10-C8-C7
22	C	1031	CLA	C12-C13-C15-C16
22	b	6014	CLA	C12-C13-C15-C16
22	b	6015	CLA	C6-C7-C8-C10
22	b	6024	CLA	C11-C10-C8-C7
22	c	6031	CLA	C12-C13-C15-C16
26	a	6063	LHG	C34-C35-C36-C37
22	B	1016	CLA	C8-C10-C11-C12
22	C	1033	CLA	C13-C15-C16-C17
22	c	6033	CLA	C13-C15-C16-C17
28	l	6061	MGE	O6D-C5D-C6D-O5D
26	A	1063	LHG	C12-C13-C14-C15
22	b	6016	CLA	C8-C10-C11-C12
28	L	1061	MGE	O6D-C5D-C6D-O5D
25	B	1048	BCR	C20-C21-C22-C37
25	K	1051	BCR	C20-C21-C22-C37
25	T	6048	BCR	C20-C21-C22-C37
25	k	6051	BCR	C20-C21-C22-C37
22	B	1010	CLA	C15-C16-C17-C18

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Mol	Chain	Res	Type	Atoms
22	b	6010	CLA	C15-C16-C17-C18
26	a	6063	LHG	C12-C13-C14-C15
22	B	1016	CLA	C2-C1-O2A-CGA
22	b	6016	CLA	C2-C1-O2A-CGA
25	T	6046	BCR	C13-C14-C15-C16
25	t	1046	BCR	C13-C14-C15-C16
31	V	1041	HEM	CAD-CBD-CGD-O1D
31	v	6041	HEM	CAD-CBD-CGD-O1D
22	B	1009	CLA	C6-C7-C8-C9
22	C	1027	CLA	C6-C7-C8-C9
22	D	1005	CLA	C11-C10-C8-C9
22	b	6009	CLA	C6-C7-C8-C9
22	c	6027	CLA	C6-C7-C8-C9
22	d	6005	CLA	C11-C10-C8-C9
23	A	1038	PHO	C11-C12-C13-C14
23	a	6038	PHO	C11-C12-C13-C14
28	L	1061	MGE	CDB-CEB-CFB-CGB
28	l	6061	MGE	CDB-CEB-CFB-CGB
22	d	6005	CLA	C13-C15-C16-C17
22	D	1005	CLA	C13-C15-C16-C17
25	B	1048	BCR	C20-C21-C22-C23
25	K	1051	BCR	C20-C21-C22-C23
25	T	6048	BCR	C20-C21-C22-C23
25	k	6051	BCR	C20-C21-C22-C23
22	B	1010	CLA	C2B-C3B-CAB-CBB
22	B	1022	CLA	C2B-C3B-CAB-CBB
22	D	1005	CLA	C2B-C3B-CAB-CBB
22	b	6010	CLA	C2B-C3B-CAB-CBB
22	b	6022	CLA	C2B-C3B-CAB-CBB
22	d	6005	CLA	C2B-C3B-CAB-CBB
31	V	1041	HEM	CAA-CBA-CGA-O1A
31	v	6041	HEM	CAA-CBA-CGA-O1A
28	D	1062	MGE	C6A-C7A-C8A-C9A
28	d	6062	MGE	C6A-C7A-C8A-C9A
22	B	1020	CLA	C16-C17-C18-C20
22	B	1022	CLA	C12-C13-C15-C16
22	C	1027	CLA	C6-C7-C8-C10
22	b	6022	CLA	C12-C13-C15-C16
22	c	6027	CLA	C6-C7-C8-C10
22	b	6020	CLA	C16-C17-C18-C20
29	C	1055	DGD	C4B-C5B-C6B-C7B
28	B	1060	MGE	C7B-C8B-C9B-CAB

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Mol	Chain	Res	Type	Atoms
28	b	6060	MGE	C7B-C8B-C9B-CAB
29	c	6055	DGD	C4B-C5B-C6B-C7B
22	D	1004	CLA	C4-C3-C5-C6
22	d	6004	CLA	C4-C3-C5-C6
28	D	1059	MGE	C8A-C9A-CAA-CBA
28	d	6059	MGE	C8A-C9A-CAA-CBA
22	C	1036	CLA	O1A-CGA-O2A-C1
22	c	6036	CLA	O1A-CGA-O2A-C1
22	A	1007	CLA	C11-C10-C8-C9
22	a	6007	CLA	C11-C10-C8-C9
22	C	1033	CLA	C15-C16-C17-C18
22	c	6033	CLA	C15-C16-C17-C18
22	B	1019	CLA	C13-C15-C16-C17
22	b	6019	CLA	C13-C15-C16-C17
22	B	1011	CLA	C4-C3-C5-C6
22	C	1036	CLA	C4-C3-C5-C6
22	b	6011	CLA	C4-C3-C5-C6
22	c	6036	CLA	C4-C3-C5-C6
24	A	1043	PQ9	C37-C38-C40-C41
24	a	6043	PQ9	C37-C38-C40-C41
22	B	1022	CLA	O1A-CGA-O2A-C1
22	b	6022	CLA	O1A-CGA-O2A-C1
22	C	1030	CLA	C16-C17-C18-C19
22	c	6030	CLA	C16-C17-C18-C19
24	D	1042	PQ9	C18-C20-C21-C22
24	d	6042	PQ9	C18-C20-C21-C22
28	D	1062	MGE	C1G-C2G-C3G-O3G
28	d	6062	MGE	C1G-C2G-C3G-O3G
22	B	1019	CLA	O1A-CGA-O2A-C1
22	b	6019	CLA	O1A-CGA-O2A-C1
29	B	1058	DGD	CDA-CEA-CFA-CGA
29	b	6058	DGD	CDA-CEA-CFA-CGA
22	B	1021	CLA	C8-C10-C11-C12
29	B	1058	DGD	CEB-CFB-CGB-CHB
29	b	6058	DGD	CEB-CFB-CGB-CHB
22	b	6021	CLA	C8-C10-C11-C12
22	B	1010	CLA	C4-C3-C5-C6
22	B	1024	CLA	C4-C3-C5-C6
22	b	6010	CLA	C4-C3-C5-C6
22	b	6024	CLA	C4-C3-C5-C6
31	V	1041	HEM	CAA-CBA-CGA-O2A
31	v	6041	HEM	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
23	A	1038	PHO	CHA-CBD-CGD-O1D
23	A	1038	PHO	CHA-CBD-CGD-O2D
23	D	1039	PHO	CHA-CBD-CGD-O1D
23	D	1039	PHO	CHA-CBD-CGD-O2D
23	a	6038	PHO	CHA-CBD-CGD-O1D
23	a	6038	PHO	CHA-CBD-CGD-O2D
23	d	6039	PHO	CHA-CBD-CGD-O1D
23	d	6039	PHO	CHA-CBD-CGD-O2D
25	D	1050	BCR	C20-C21-C22-C37
25	d	6050	BCR	C20-C21-C22-C37
28	B	1060	MGE	O1G-C1G-C2G-O2G
28	b	6060	MGE	O1G-C1G-C2G-O2G
22	B	1011	CLA	C2-C3-C5-C6
22	C	1036	CLA	C2-C3-C5-C6
22	D	1004	CLA	C2-C3-C5-C6
22	b	6011	CLA	C2-C3-C5-C6
22	c	6036	CLA	C2-C3-C5-C6
22	d	6004	CLA	C2-C3-C5-C6
22	B	1015	CLA	C11-C10-C8-C7
22	b	6015	CLA	C11-C10-C8-C7
25	C	1054	BCR	C9-C10-C11-C12
25	c	6054	BCR	C9-C10-C11-C12
23	A	1038	PHO	C5-C6-C7-C8
22	C	1032	CLA	C6-C7-C8-C9
22	C	1036	CLA	C11-C10-C8-C9
22	C	1036	CLA	C14-C13-C15-C16
22	c	6032	CLA	C6-C7-C8-C9
22	c	6036	CLA	C11-C10-C8-C9
22	c	6036	CLA	C14-C13-C15-C16
22	K	1034	CLA	C2A-CAA-CBA-CGA
22	k	6034	CLA	C2A-CAA-CBA-CGA
22	A	1007	CLA	C2-C1-O2A-CGA
22	a	6007	CLA	C2-C1-O2A-CGA
22	C	1027	CLA	C5-C6-C7-C8
22	c	6027	CLA	C5-C6-C7-C8
23	a	6038	PHO	C5-C6-C7-C8
22	B	1010	CLA	C3A-C2A-CAA-CBA
22	b	6010	CLA	C3A-C2A-CAA-CBA
22	B	1018	CLA	C4C-C3C-CAC-CBC
28	B	1060	MGE	C6B-C7B-C8B-C9B
28	b	6060	MGE	C6B-C7B-C8B-C9B
22	b	6018	CLA	C4C-C3C-CAC-CBC

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Mol	Chain	Res	Type	Atoms
29	C	1056	DGD	C4A-C5A-C6A-C7A
29	b	6058	DGD	C4A-C5A-C6A-C7A
29	B	1058	DGD	C4A-C5A-C6A-C7A
29	c	6056	DGD	C4A-C5A-C6A-C7A
22	B	1015	CLA	C16-C17-C18-C20
22	b	6015	CLA	C16-C17-C18-C20
25	D	1050	BCR	C20-C21-C22-C23
25	d	6050	BCR	C20-C21-C22-C23
29	B	1058	DGD	CBA-CCA-CDA-CEA
29	b	6058	DGD	CBA-CCA-CDA-CEA
29	c	6055	DGD	C6A-C7A-C8A-C9A
29	C	1055	DGD	C6A-C7A-C8A-C9A
28	b	6060	MGE	CAB-CBB-CCB-CDB
28	B	1060	MGE	CAB-CBB-CCB-CDB
29	c	6056	DGD	CAB-CBB-CCB-CDB
22	A	1006	CLA	C6-C7-C8-C10
22	B	1019	CLA	C6-C7-C8-C10
22	C	1032	CLA	C6-C7-C8-C10
22	C	1036	CLA	C11-C10-C8-C7
22	K	1034	CLA	C12-C13-C15-C16
22	a	6006	CLA	C6-C7-C8-C10
22	b	6019	CLA	C6-C7-C8-C10
22	c	6032	CLA	C6-C7-C8-C10
22	c	6036	CLA	C11-C10-C8-C7
22	k	6034	CLA	C12-C13-C15-C16
23	D	1039	PHO	C6-C7-C8-C10
23	d	6039	PHO	C6-C7-C8-C10
29	C	1056	DGD	CAB-CBB-CCB-CDB
22	B	1011	CLA	C2B-C3B-CAB-CBB
22	B	1021	CLA	C2B-C3B-CAB-CBB
22	b	6011	CLA	C2B-C3B-CAB-CBB
22	b	6021	CLA	C2B-C3B-CAB-CBB
25	B	1045	BCR	C1-C6-C7-C8
25	b	6045	BCR	C1-C6-C7-C8
22	K	1034	CLA	C8-C10-C11-C12
22	k	6034	CLA	C8-C10-C11-C12
29	C	1055	DGD	O2G-C1B-C2B-C3B
29	c	6055	DGD	O2G-C1B-C2B-C3B
29	B	1058	DGD	C4E-C5E-C6E-O5E
29	b	6058	DGD	C4E-C5E-C6E-O5E
22	B	1021	CLA	CAA-CBA-CGA-O2A
22	C	1027	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
22	b	6018	CLA	CAA-CBA-CGA-O2A
22	C	1035	CLA	C8-C10-C11-C12
31	F	1040	HEM	CAA-CBA-CGA-O2A
31	f	6040	HEM	CAA-CBA-CGA-O2A
22	c	6035	CLA	C8-C10-C11-C12
22	B	1018	CLA	CAA-CBA-CGA-O2A
22	b	6009	CLA	CAA-CBA-CGA-O2A
22	b	6021	CLA	CAA-CBA-CGA-O2A
22	c	6027	CLA	CAA-CBA-CGA-O2A
22	B	1009	CLA	CAA-CBA-CGA-O2A
22	c	6029	CLA	C5-C6-C7-C8
28	B	1060	MGE	O1G-C1G-C2G-C3G
28	b	6060	MGE	O1G-C1G-C2G-C3G
22	B	1010	CLA	C1A-C2A-CAA-CBA
22	B	1022	CLA	C1A-C2A-CAA-CBA
22	b	6010	CLA	C1A-C2A-CAA-CBA
22	b	6022	CLA	C1A-C2A-CAA-CBA
22	C	1029	CLA	C5-C6-C7-C8
28	B	1060	MGE	O2G-C1B-C2B-C3B
28	b	6060	MGE	O2G-C1B-C2B-C3B
29	B	1058	DGD	O2G-C1B-C2B-C3B
28	b	6060	MGE	C3B-C4B-C5B-C6B
29	b	6058	DGD	O2G-C1B-C2B-C3B
28	B	1060	MGE	C3B-C4B-C5B-C6B
22	C	1028	CLA	C2-C1-O2A-CGA
22	C	1031	CLA	C2-C1-O2A-CGA
22	c	6028	CLA	C2-C1-O2A-CGA
22	c	6031	CLA	C2-C1-O2A-CGA
22	B	1011	CLA	CAA-CBA-CGA-O2A
22	b	6011	CLA	CAA-CBA-CGA-O2A
22	B	1013	CLA	C12-C13-C15-C16
22	B	1020	CLA	C11-C10-C8-C7
22	C	1036	CLA	C6-C7-C8-C10
22	b	6013	CLA	C12-C13-C15-C16
22	b	6020	CLA	C11-C10-C8-C7
22	c	6036	CLA	C6-C7-C8-C10
22	B	1012	CLA	C13-C15-C16-C17
22	b	6012	CLA	C13-C15-C16-C17
26	a	6063	LHG	C11-C12-C13-C14
26	A	1063	LHG	C11-C12-C13-C14
22	C	1031	CLA	CAA-CBA-CGA-O2A
22	c	6031	CLA	CAA-CBA-CGA-O2A

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Mol	Chain	Res	Type	Atoms
22	B	1022	CLA	C2A-CAA-CBA-CGA
22	C	1028	CLA	C2A-CAA-CBA-CGA
22	D	1004	CLA	C2A-CAA-CBA-CGA
22	b	6022	CLA	C2A-CAA-CBA-CGA
22	c	6028	CLA	C2A-CAA-CBA-CGA
22	d	6004	CLA	C2A-CAA-CBA-CGA
31	f	6040	HEM	CAA-CBA-CGA-O1A
31	F	1040	HEM	CAA-CBA-CGA-O1A
31	F	1040	HEM	CAD-CBD-CGD-O2D
31	f	6040	HEM	CAD-CBD-CGD-O2D
31	V	1041	HEM	C3D-CAD-CBD-CGD
31	v	6041	HEM	C3D-CAD-CBD-CGD
22	B	1014	CLA	C14-C13-C15-C16
22	B	1024	CLA	C11-C10-C8-C9
22	C	1028	CLA	C11-C10-C8-C9
22	b	6014	CLA	C14-C13-C15-C16
22	b	6024	CLA	C11-C10-C8-C9
22	c	6028	CLA	C11-C10-C8-C9
28	D	1059	MGE	C2B-C3B-C4B-C5B
28	d	6059	MGE	C2B-C3B-C4B-C5B
22	B	1013	CLA	C10-C11-C12-C13
22	b	6013	CLA	C10-C11-C12-C13
24	D	1042	PQ9	C14-C13-C15-C16
24	d	6042	PQ9	C14-C13-C15-C16
22	K	1034	CLA	CAA-CBA-CGA-O2A
22	k	6034	CLA	CAA-CBA-CGA-O2A
29	C	1055	DGD	O1B-C1B-C2B-C3B
29	c	6055	DGD	O1B-C1B-C2B-C3B
22	b	6015	CLA	C8-C10-C11-C12
22	B	1018	CLA	CAA-CBA-CGA-O1A
22	b	6018	CLA	CAA-CBA-CGA-O1A
29	B	1058	DGD	C5D-C6D-O5D-C1E
29	b	6058	DGD	C5D-C6D-O5D-C1E
22	H	1017	CLA	CAA-CBA-CGA-O1A
22	h	6017	CLA	CAA-CBA-CGA-O1A
28	B	1060	MGE	O1B-C1B-C2B-C3B
28	b	6060	MGE	O1B-C1B-C2B-C3B
22	B	1015	CLA	C8-C10-C11-C12
28	L	1061	MGE	C8A-C9A-CAA-CBA
28	l	6061	MGE	C8A-C9A-CAA-CBA
31	V	1041	HEM	C2C-C3C-CAC-CBC
22	A	1007	CLA	CAD-CBD-CGD-O2D

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Mol	Chain	Res	Type	Atoms
22	B	1012	CLA	CAD-CBD-CGD-O2D
22	C	1030	CLA	CAD-CBD-CGD-O2D
22	a	6007	CLA	CAD-CBD-CGD-O2D
22	b	6012	CLA	CAD-CBD-CGD-O2D
22	c	6030	CLA	CAD-CBD-CGD-O2D
22	a	6003	CLA	C10-C11-C12-C13
29	B	1058	DGD	O1B-C1B-C2B-C3B
29	b	6058	DGD	O1B-C1B-C2B-C3B
22	c	6037	CLA	CAA-CBA-CGA-O2A
23	A	1038	PHO	CAA-CBA-CGA-O2A
28	B	1060	MGE	CCB-CDB-CEB-CFB
28	b	6060	MGE	CCB-CDB-CEB-CFB
31	F	1040	HEM	CAD-CBD-CGD-O1D
31	f	6040	HEM	CAD-CBD-CGD-O1D
22	A	1003	CLA	C10-C11-C12-C13
22	C	1037	CLA	CAA-CBA-CGA-O2A
23	a	6038	PHO	CAA-CBA-CGA-O2A
22	C	1025	CLA	CAA-CBA-CGA-O1A
22	c	6025	CLA	CAA-CBA-CGA-O1A
22	B	1024	CLA	CBA-CGA-O2A-C1
22	b	6024	CLA	CBA-CGA-O2A-C1

There are no ring outliers.

122 monomers are involved in 4181 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	C	1031	CLA	63	0
22	A	1006	CLA	44	0
22	a	6007	CLA	38	0
22	b	6011	CLA	87	0
23	D	1039	PHO	51	0
24	A	1043	PQ9	36	0
25	B	1045	BCR	21	0
25	A	1044	BCR	25	0
31	F	1040	HEM	17	0
22	b	6021	CLA	57	0
22	B	1019	CLA	40	0
25	T	6048	BCR	23	0
22	B	1022	CLA	74	0
29	C	1055	DGD	26	0
25	d	6050	BCR	39	0
22	C	1026	CLA	27	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
25	C	1052	BCR	38	0
29	C	1056	DGD	55	0
23	a	6038	PHO	63	0
22	B	1009	CLA	59	0
22	D	1008	CLA	48	0
25	D	1050	BCR	40	0
25	z	6053	BCR	19	0
22	b	6022	CLA	76	0
22	B	1023	CLA	68	0
22	b	6024	CLA	45	0
22	b	6014	CLA	41	0
22	c	6030	CLA	37	0
22	C	1032	CLA	42	0
22	H	1017	CLA	46	0
22	C	1025	CLA	64	0
22	a	6003	CLA	51	0
22	b	6015	CLA	46	0
22	b	6012	CLA	61	0
23	d	6039	PHO	52	0
28	b	6060	MGE	38	0
22	B	1011	CLA	86	0
22	A	1003	CLA	51	0
22	c	6028	CLA	37	0
25	t	1046	BCR	44	0
25	Z	1053	BCR	17	0
22	c	6031	CLA	61	0
22	a	6006	CLA	47	0
22	c	6029	CLA	59	0
22	c	6026	CLA	28	0
24	a	6043	PQ9	35	0
22	d	6005	CLA	57	0
22	c	6025	CLA	65	0
25	b	6047	BCR	42	0
31	V	1041	HEM	12	0
29	c	6056	DGD	59	0
22	b	6009	CLA	62	0
22	C	1037	CLA	21	0
28	D	1059	MGE	45	0
22	A	1007	CLA	39	0
25	C	1054	BCR	38	0
22	d	6008	CLA	46	0
22	C	1033	CLA	66	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	A	1038	PHO	63	0
22	c	6032	CLA	39	0
22	b	6023	CLA	67	0
31	v	6041	HEM	10	0
22	B	1015	CLA	47	0
25	b	6045	BCR	21	0
24	d	6042	PQ9	55	0
24	D	1042	PQ9	56	0
25	K	1051	BCR	27	0
29	C	1057	DGD	41	0
22	b	6018	CLA	35	0
22	c	6036	CLA	21	0
31	f	6040	HEM	17	0
25	T	6046	BCR	44	0
22	B	1016	CLA	46	0
22	B	1021	CLA	60	0
22	b	6010	CLA	37	0
22	D	1004	CLA	51	0
22	B	1018	CLA	34	0
22	k	6034	CLA	93	0
25	k	6051	BCR	26	0
28	B	1060	MGE	39	0
29	B	1058	DGD	32	0
22	b	6013	CLA	63	0
25	B	1048	BCR	23	0
22	B	1012	CLA	61	0
22	B	1014	CLA	44	0
29	c	6057	DGD	41	0
22	C	1027	CLA	35	0
22	C	1028	CLA	37	0
22	C	1035	CLA	53	0
26	A	1063	LHG	36	0
28	l	6061	MGE	27	0
22	c	6027	CLA	37	0
22	c	6035	CLA	49	0
28	L	1061	MGE	29	0
25	a	6044	BCR	26	0
22	B	1020	CLA	52	0
22	D	1005	CLA	58	0
22	b	6020	CLA	52	0
22	C	1029	CLA	62	0
25	B	1047	BCR	43	0

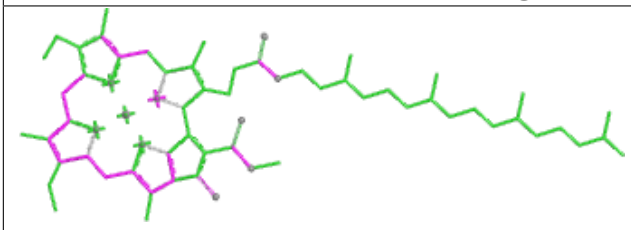
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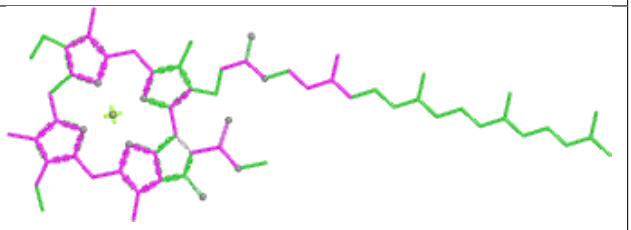
Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	c	6037	CLA	21	0
25	H	1049	BCR	34	0
22	b	6016	CLA	43	0
22	c	6033	CLA	68	0
25	k	6052	BCR	51	0
26	a	6063	LHG	36	0
22	C	1036	CLA	22	0
22	B	1013	CLA	65	0
28	d	6062	MGE	21	0
22	d	6004	CLA	52	0
29	b	6058	DGD	34	0
22	b	6019	CLA	37	0
22	K	1034	CLA	89	0
22	B	1024	CLA	45	0
22	B	1010	CLA	38	0
28	D	1062	MGE	21	0
22	h	6017	CLA	47	0
29	c	6055	DGD	25	0
25	h	6049	BCR	34	0
22	C	1030	CLA	37	0
28	d	6059	MGE	46	0
25	c	6054	BCR	36	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.

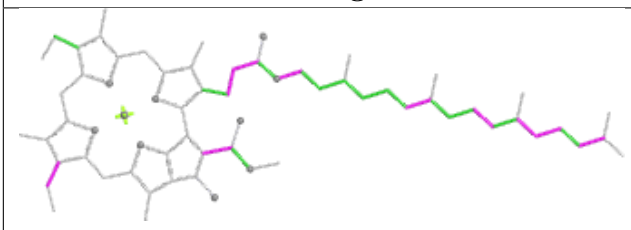
Ligand CLA C 1031



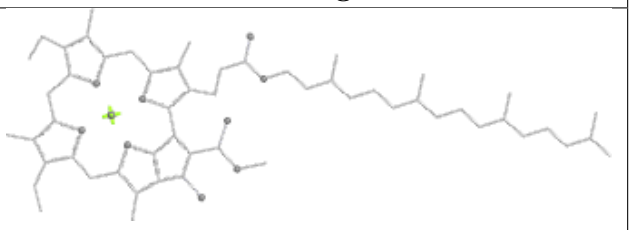
Bond lengths



Bond angles

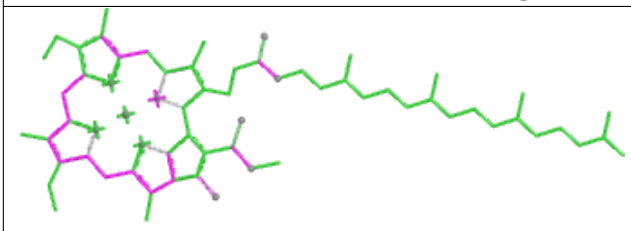


Torsions

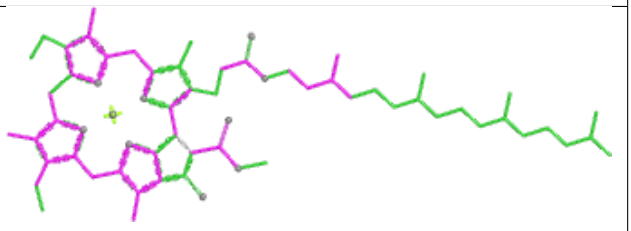


Rings

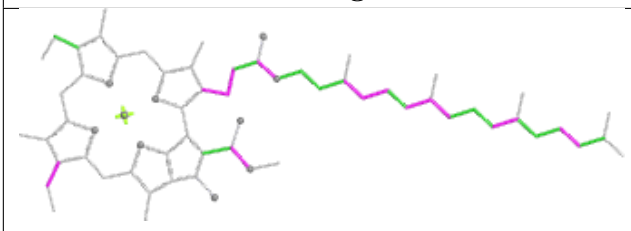
Ligand CLA A 1006



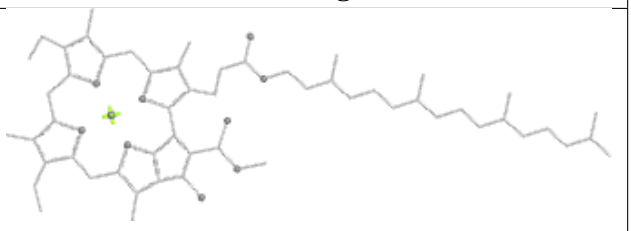
Bond lengths



Bond angles

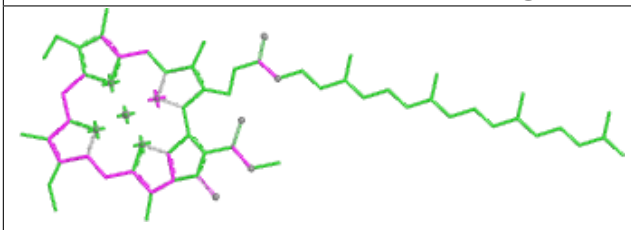


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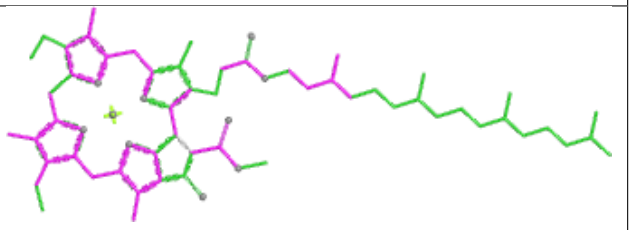


Rings

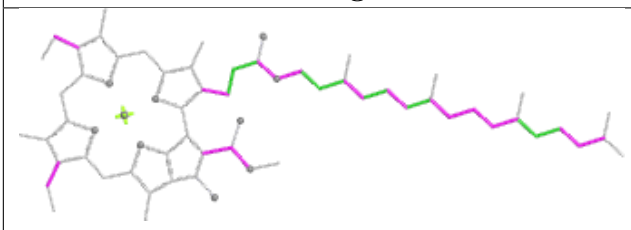
Ligand CLA a 6007



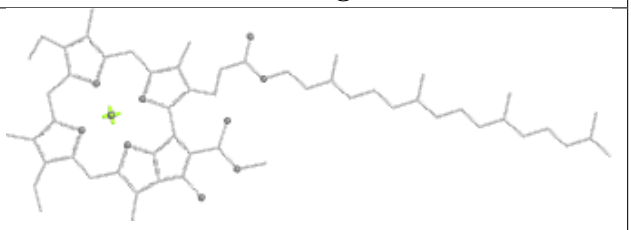
Bond lengths



Bond angles

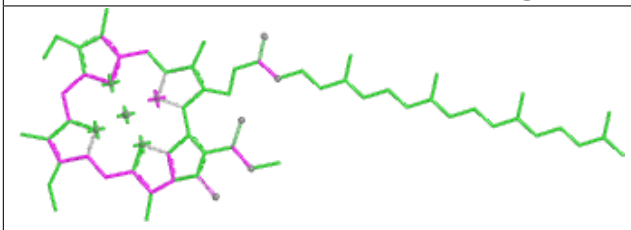


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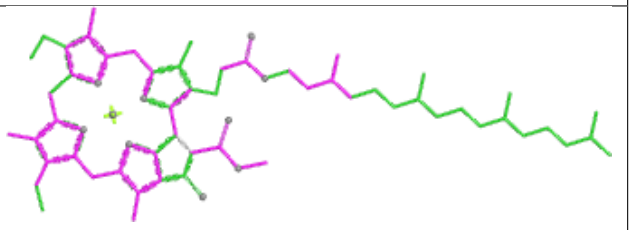


Rings

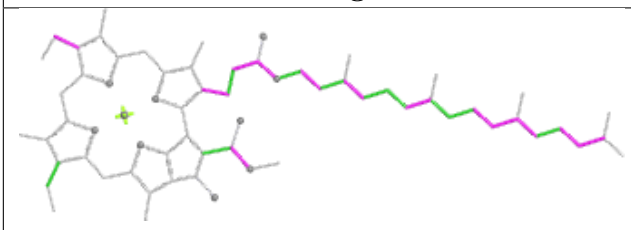
Ligand CLA b 6011



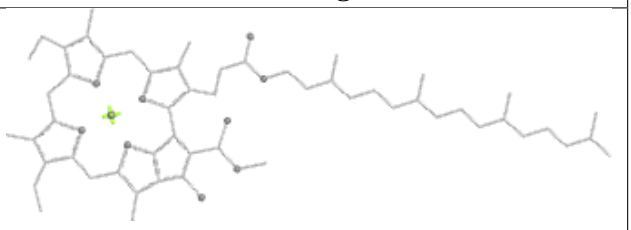
Bond lengths



Bond angles

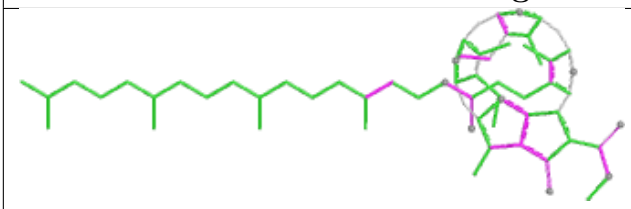


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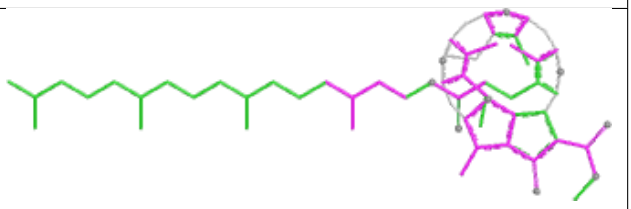


Rings

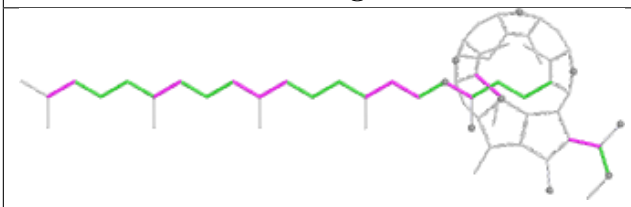
Ligand PHO D 1039



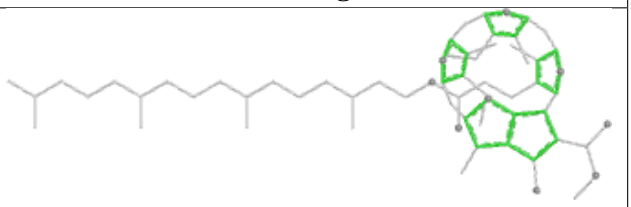
Bond lengths



Bond angles

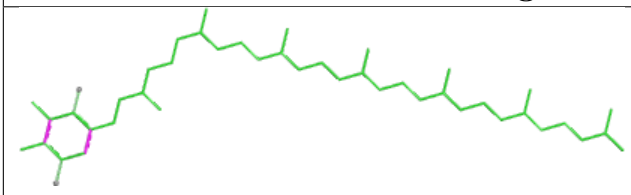


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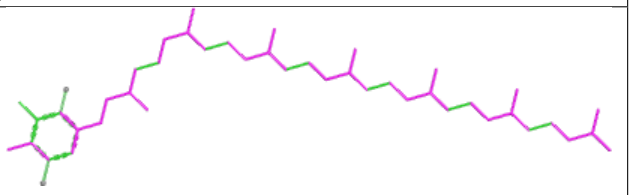


Rings

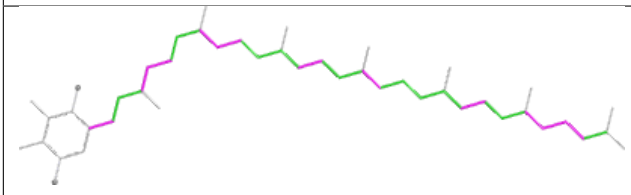
Ligand PQ9 A 1043



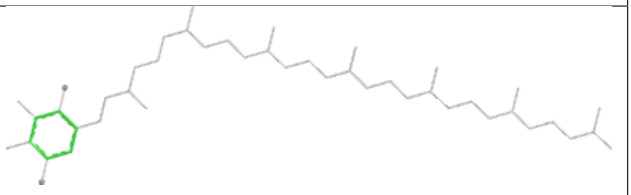
Bond lengths



Bond angles

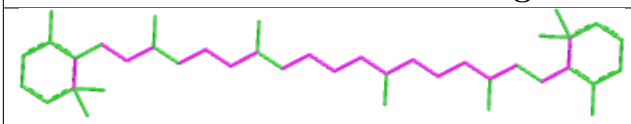


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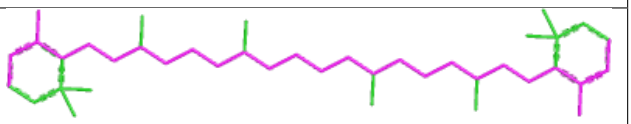


Rings

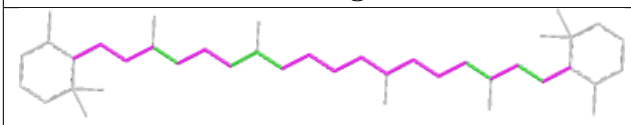
Ligand BCR B 1045



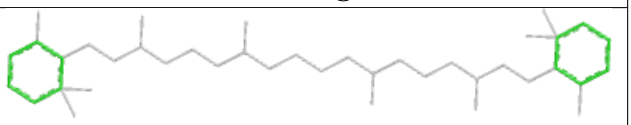
Bond lengths



Bond angles

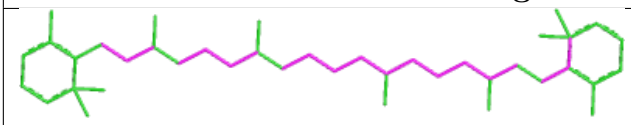


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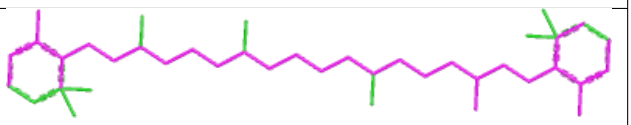


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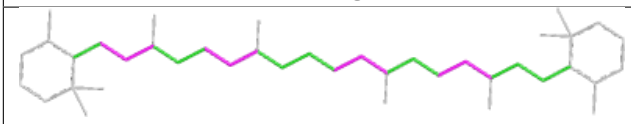
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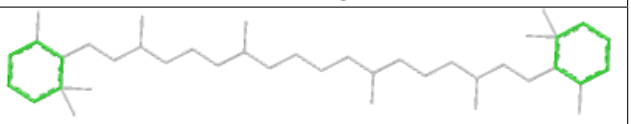
Bond lengths



Bond angles

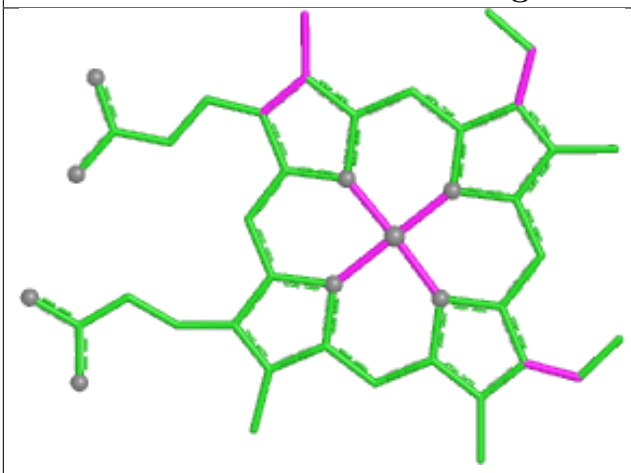


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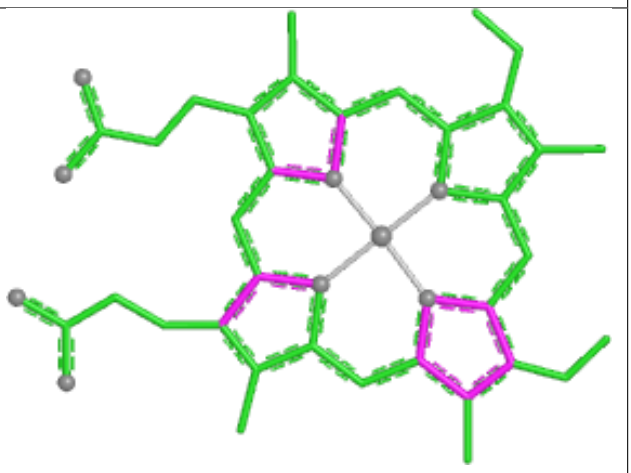


Rings

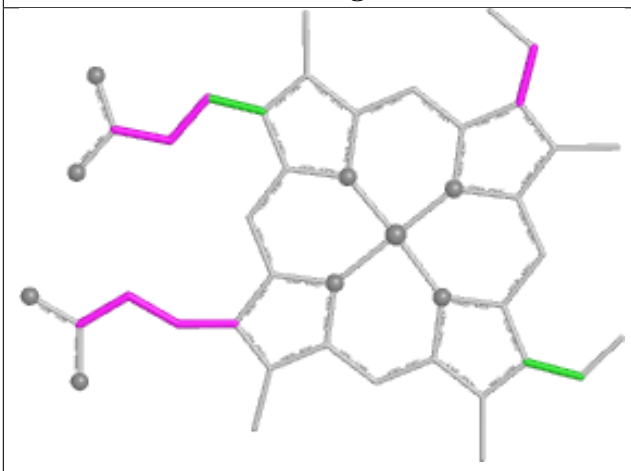
Ligand HEM F 1040



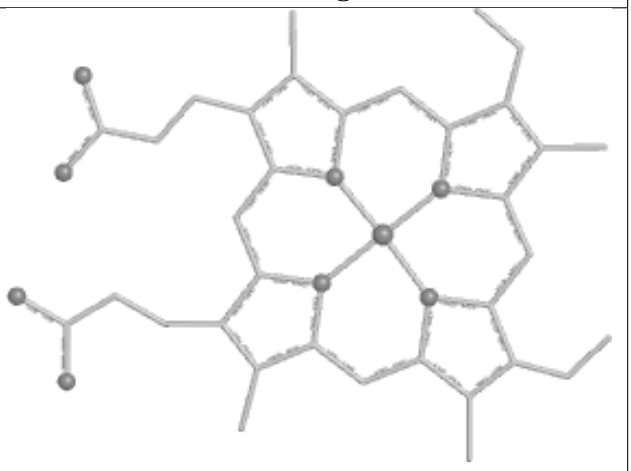
Bond lengths



Bond angles

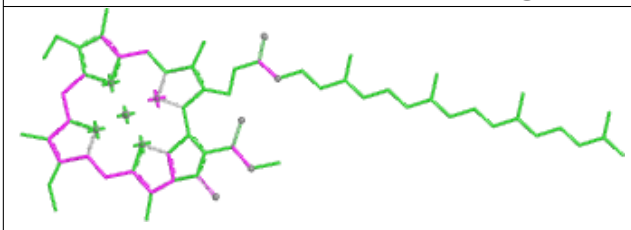


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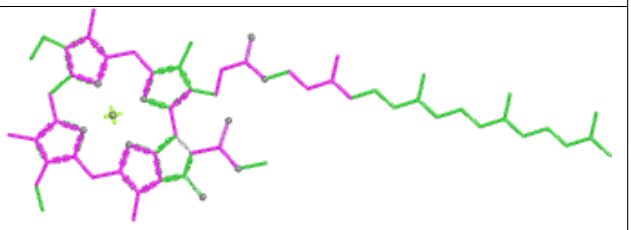


Rings

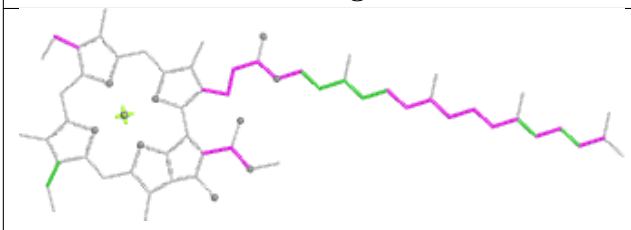
Ligand CLA b 6021



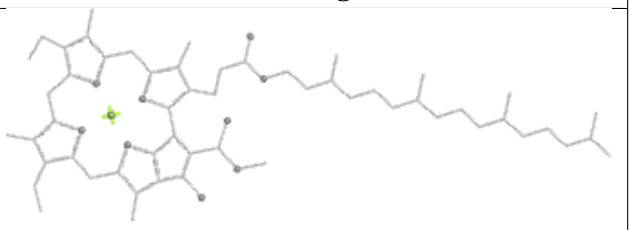
Bond lengths



Bond angles

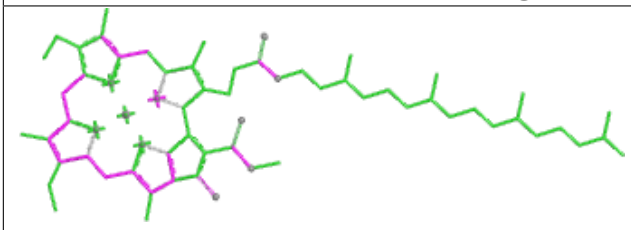


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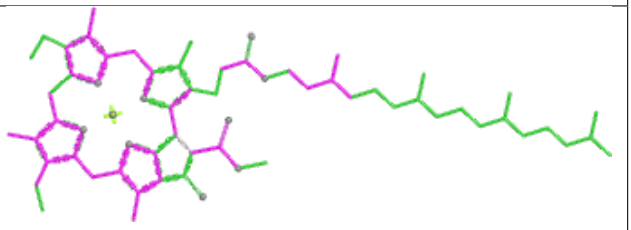


Rings

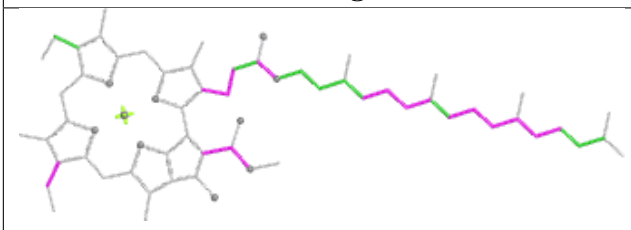
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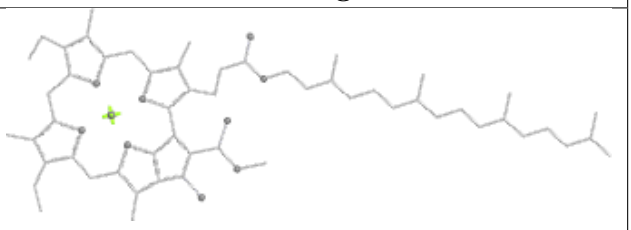
Bond lengths



Bond angles

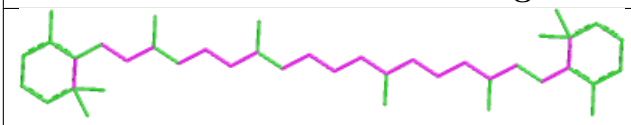


Torsions

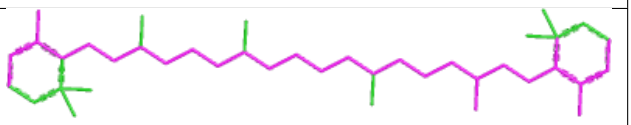


Rings

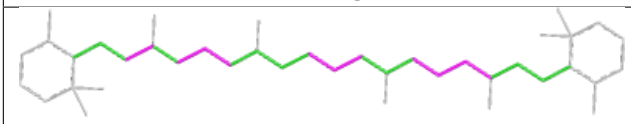
Ligand BCR T 6048



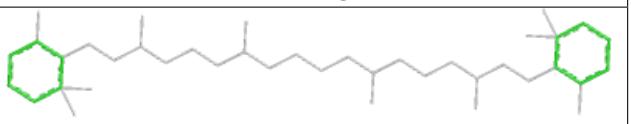
Bond lengths



Bond angles

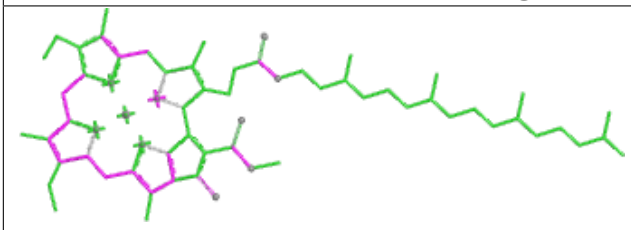


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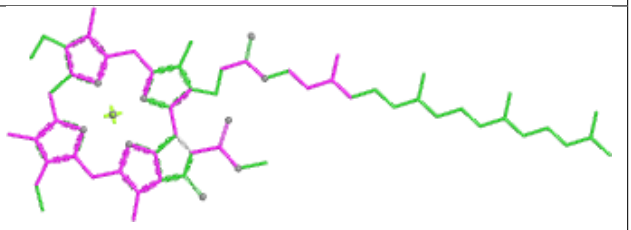


Rings

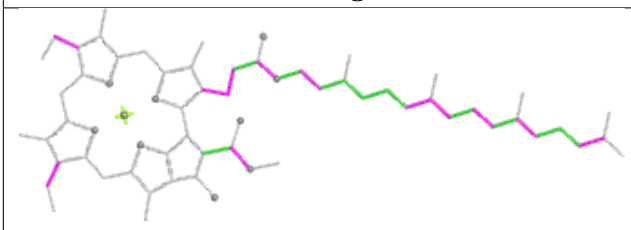
Ligand CLA B 1022



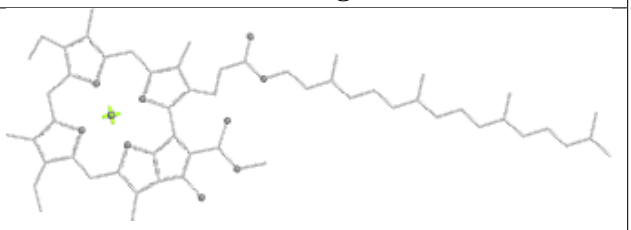
Bond lengths



Bond angles

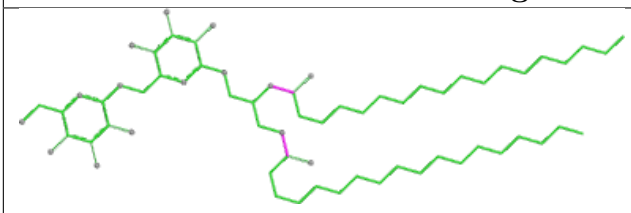


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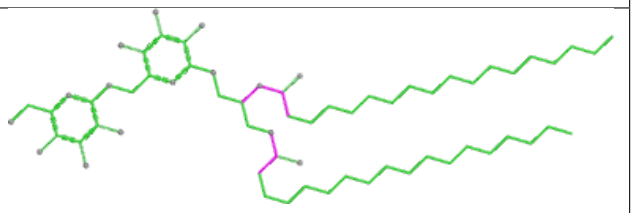


Rings

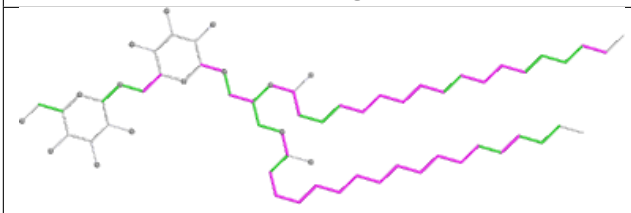
Ligand DGD C 1055



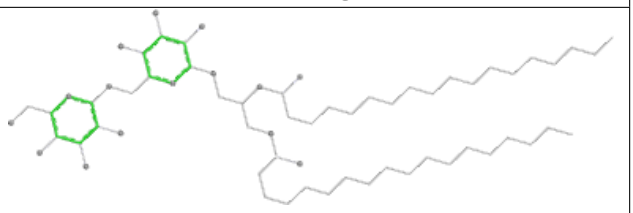
Bond lengths



Bond angles

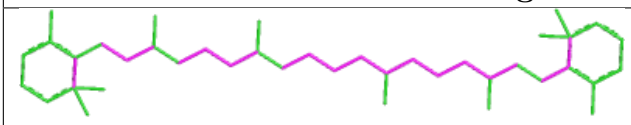


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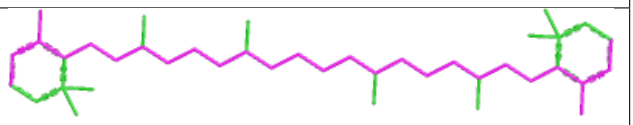


Rings

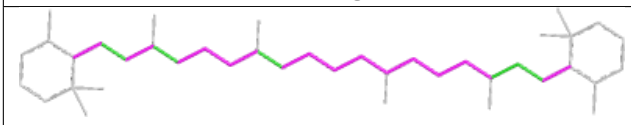
Ligand BCR d 6050



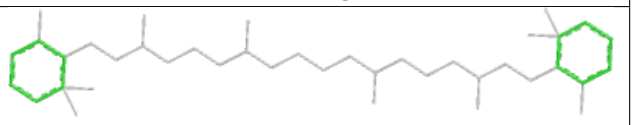
Bond lengths



Bond angles

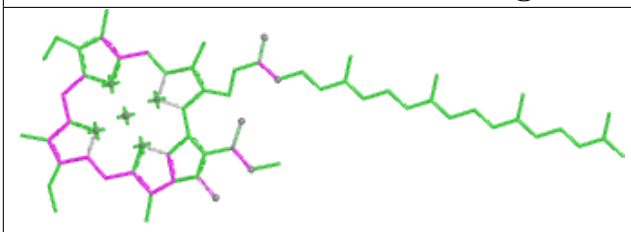


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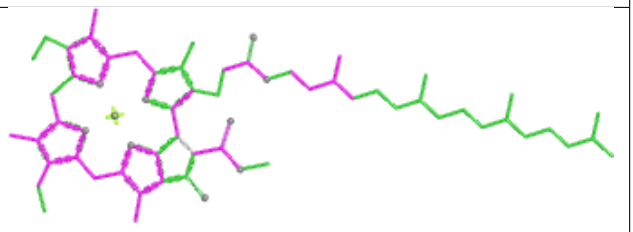


Rings

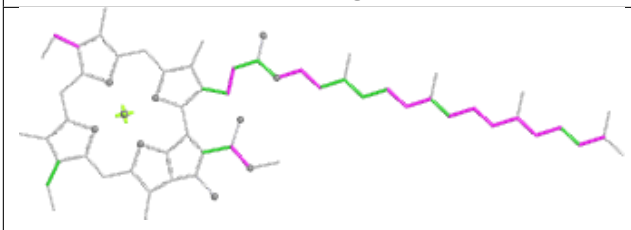
Ligand CLA C 1026



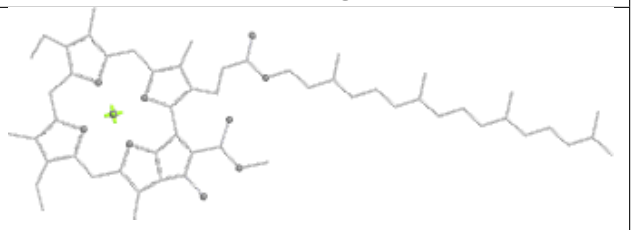
Bond lengths



Bond angles



Torsions

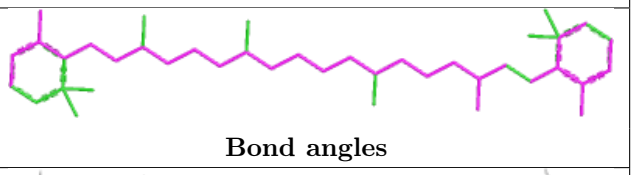


Rings

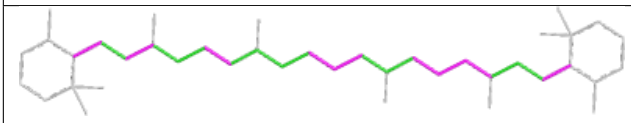
Ligand BCR C 1052



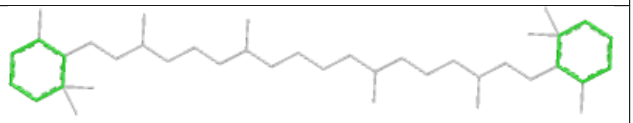
Bond lengths



Bond angles

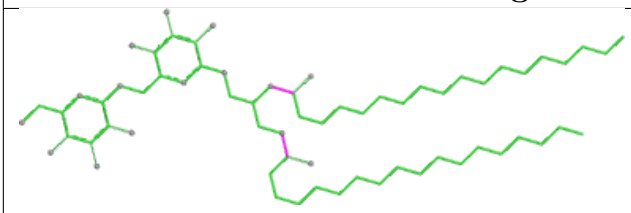


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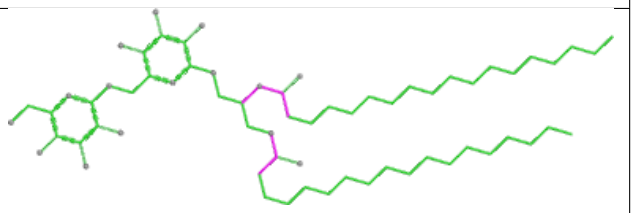


Rings

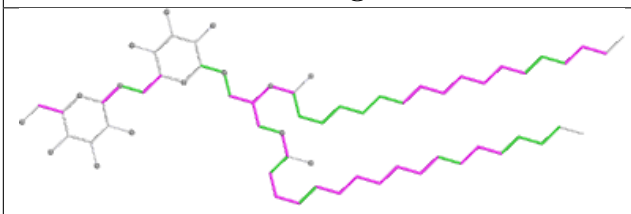
Ligand DGD C 1056



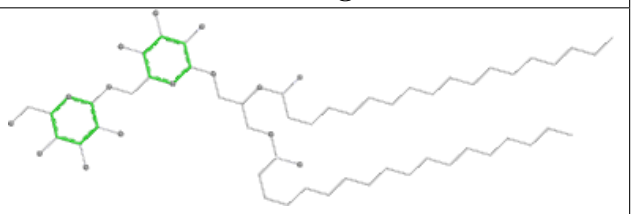
Bond lengths



Bond angles

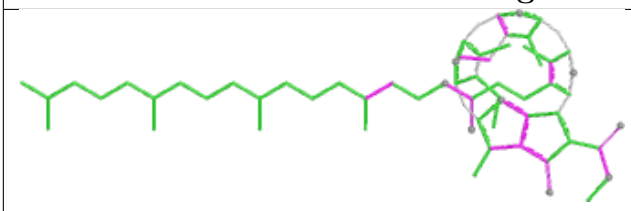


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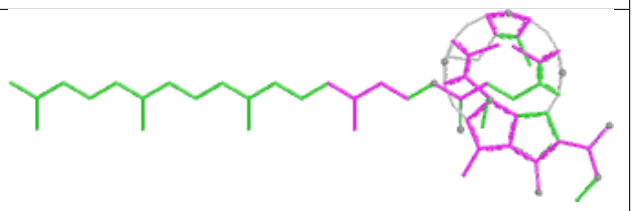


Rings

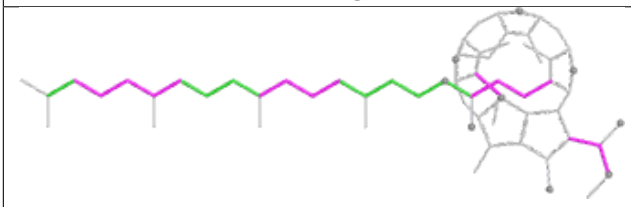
Ligand PHO a 6038



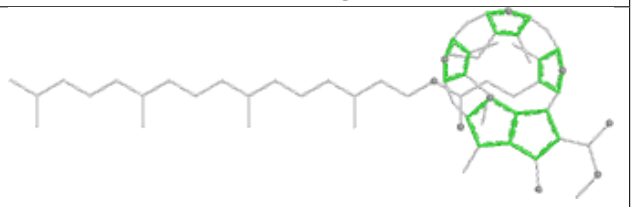
Bond lengths



Bond angles

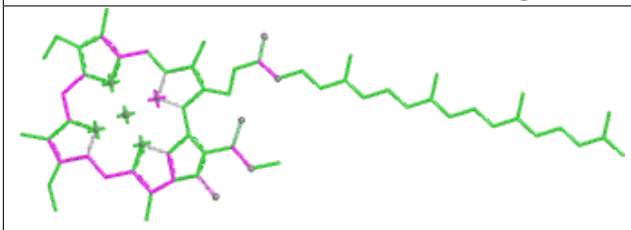


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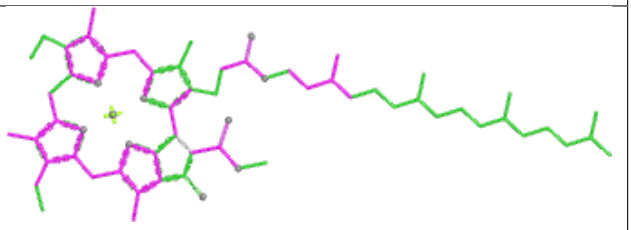


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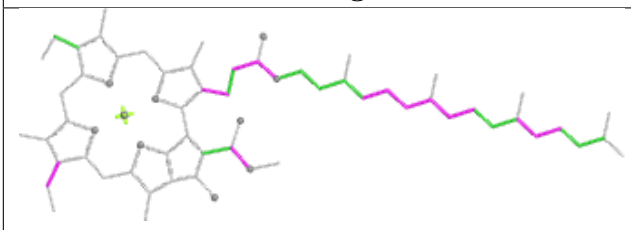
Ligand CLA B 1009



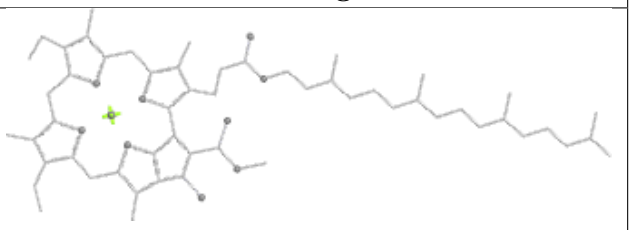
Bond lengths



Bond angles

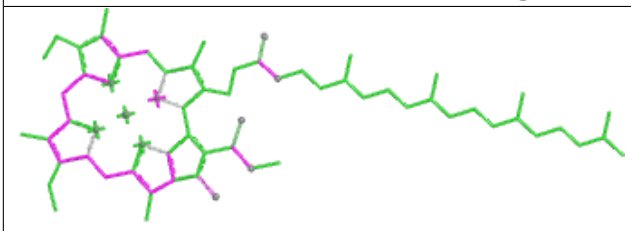


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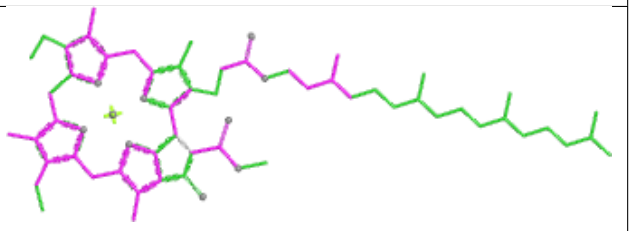


Rings

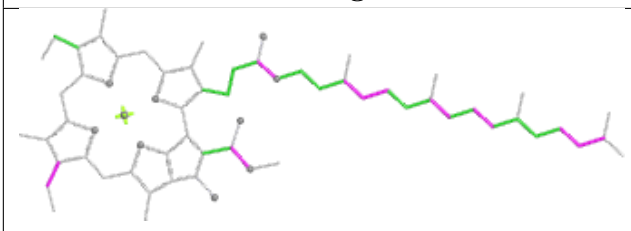
Ligand CLA D 1008



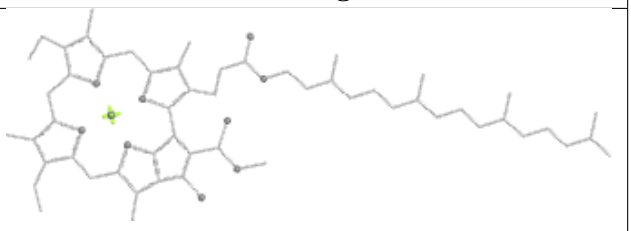
Bond lengths



Bond angles

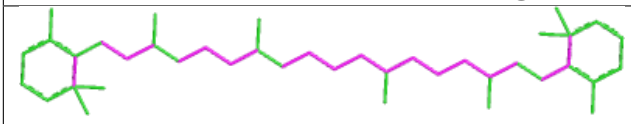


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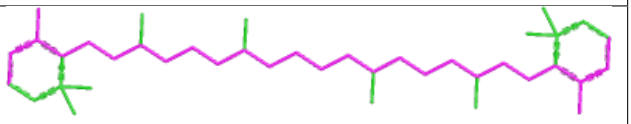


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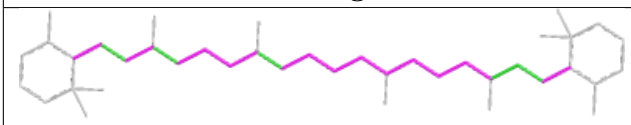
Ligand BCR D 1050



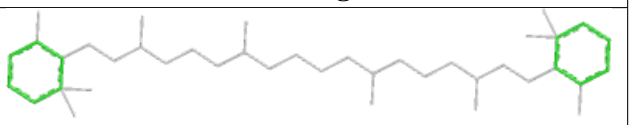
Bond lengths



Bond angles



Torsions

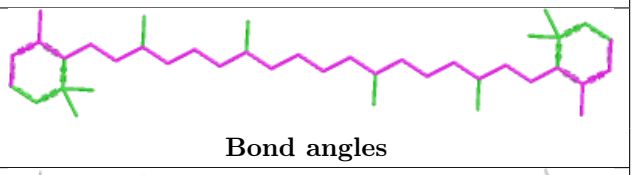


Rings

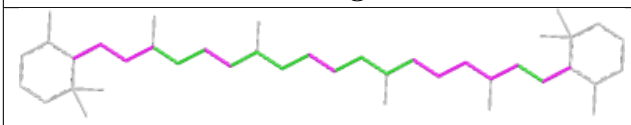
Ligand BCR z 6053



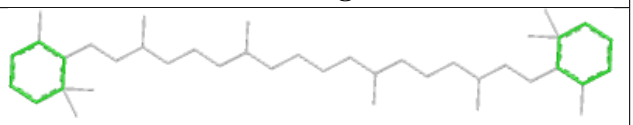
Bond lengths



Bond angles

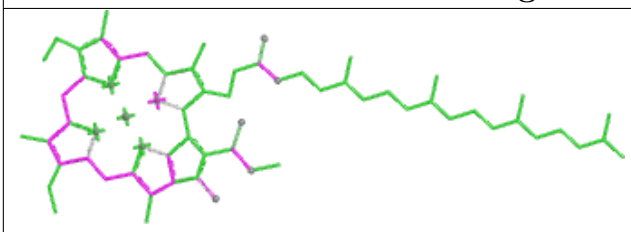


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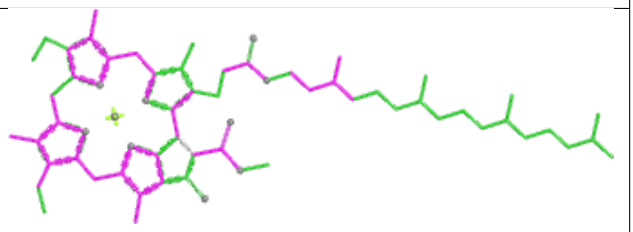


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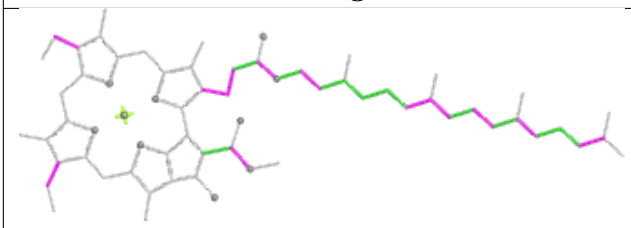
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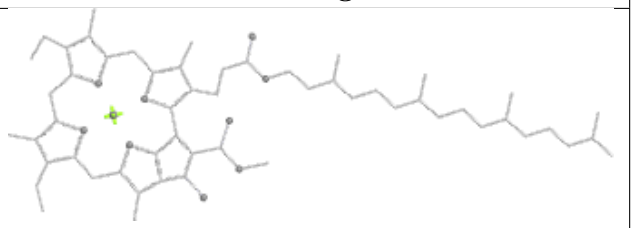
Bond lengths



Bond angles

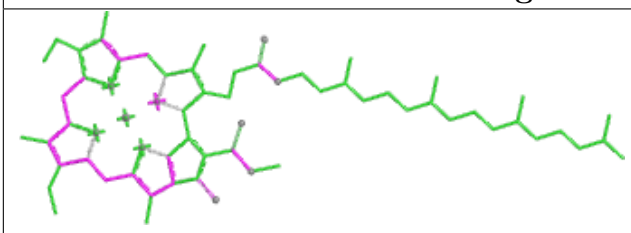


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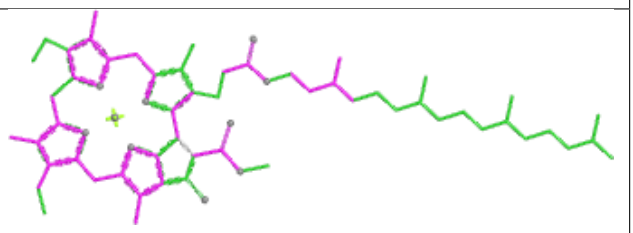


Rings

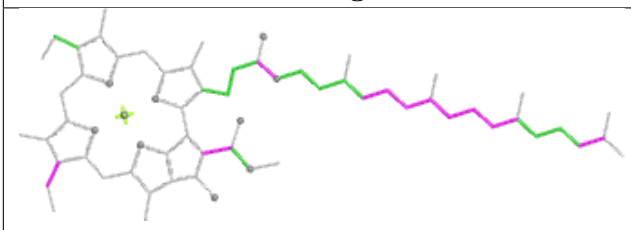
Ligand CLA B 1023



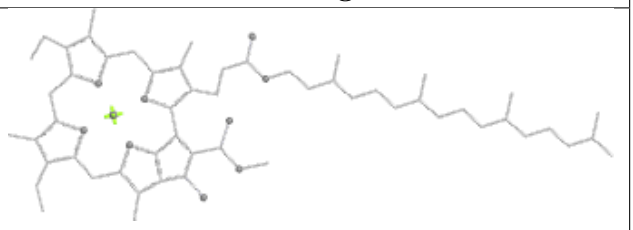
Bond lengths



Bond angles

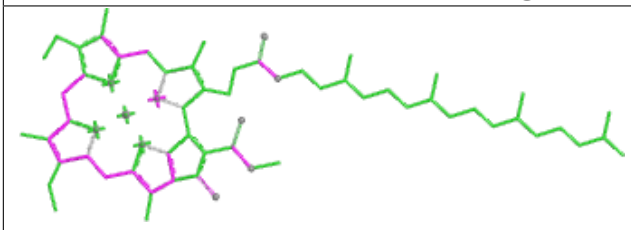


Torsions

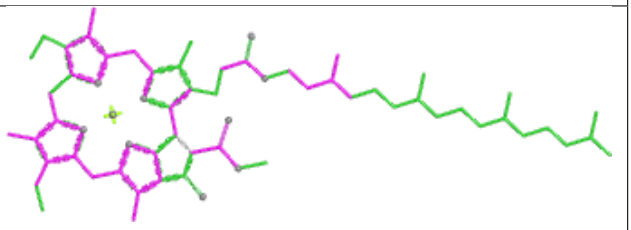


Rings

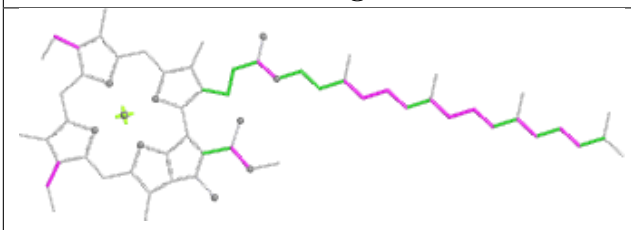
Ligand CLA b 6024



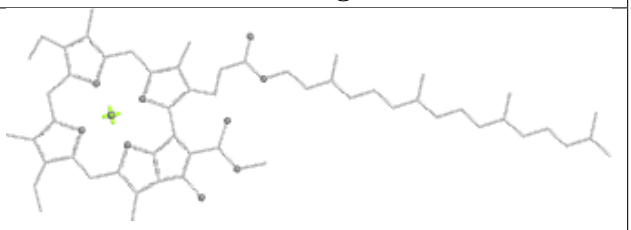
Bond lengths



Bond angles

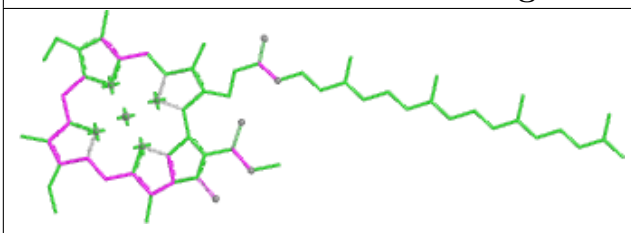


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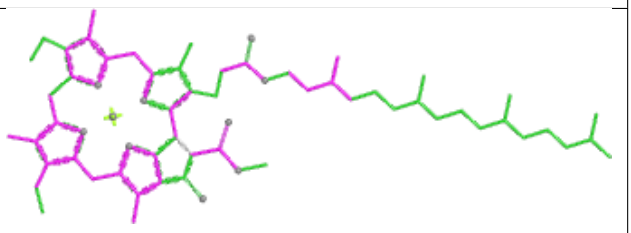


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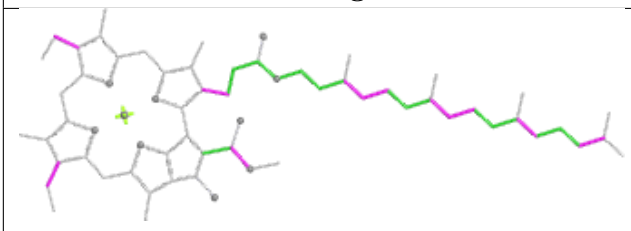
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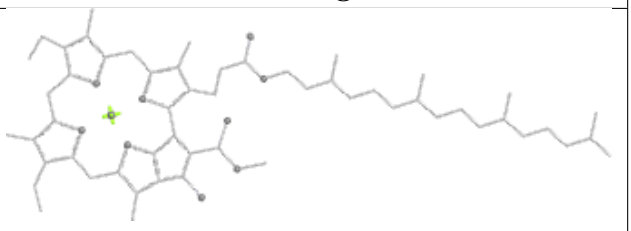
Bond lengths



Bond angles

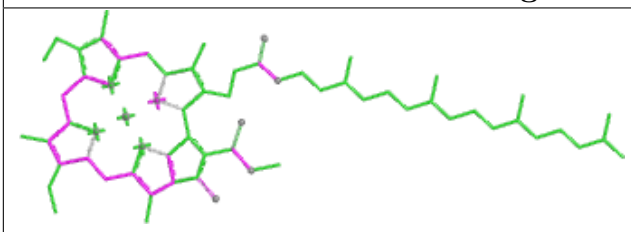


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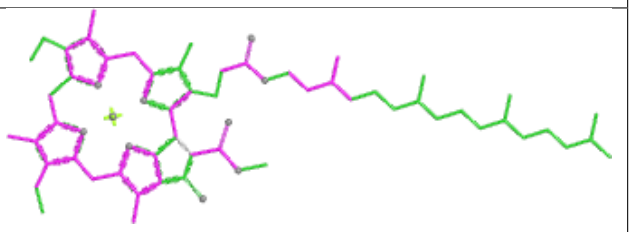


Rings

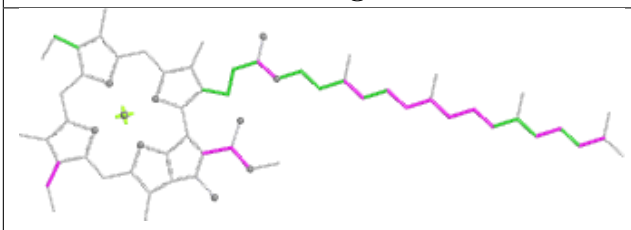
Ligand CLA c 6030



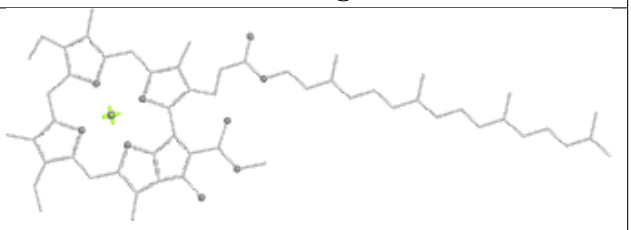
Bond lengths



Bond angles

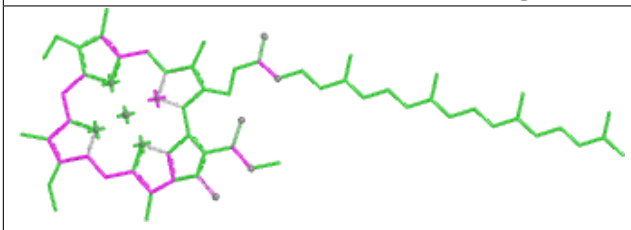


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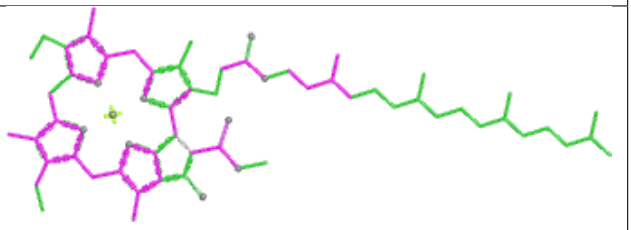


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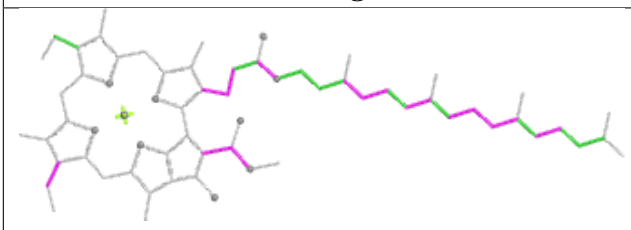
Ligand CLA C 1032



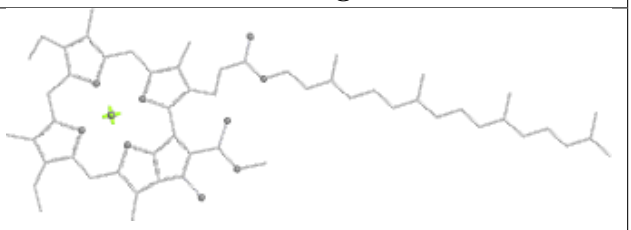
Bond lengths



Bond angles

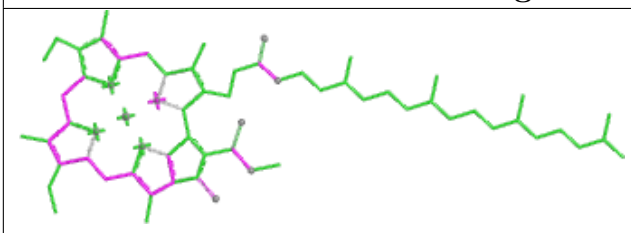


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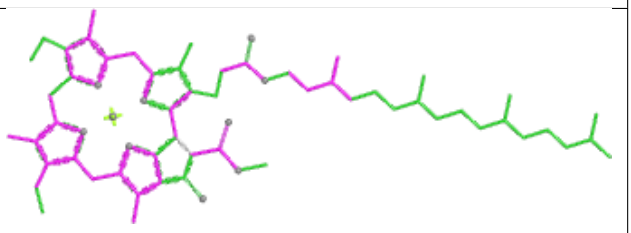


Rings

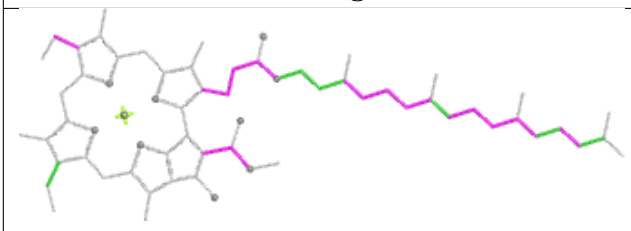
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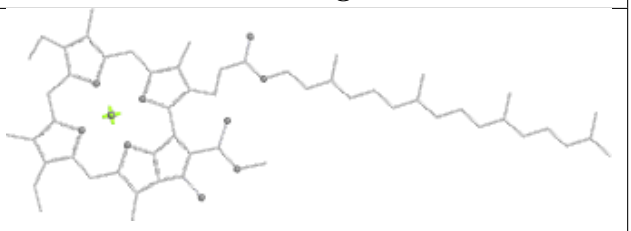
Bond lengths



Bond angles

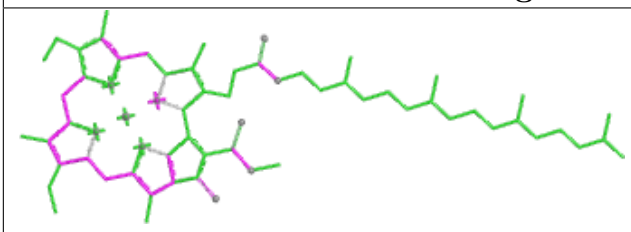


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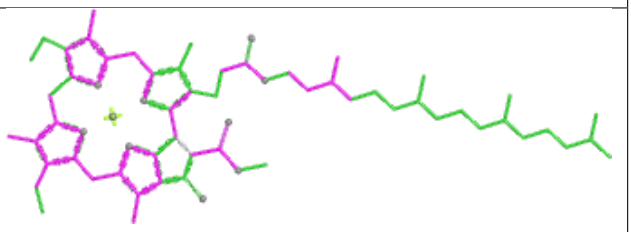


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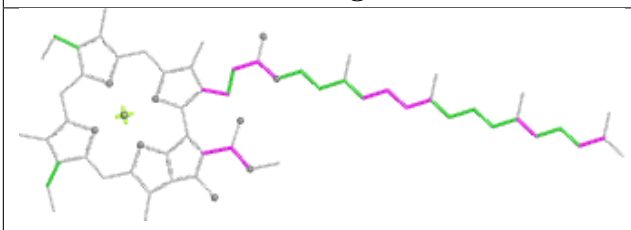
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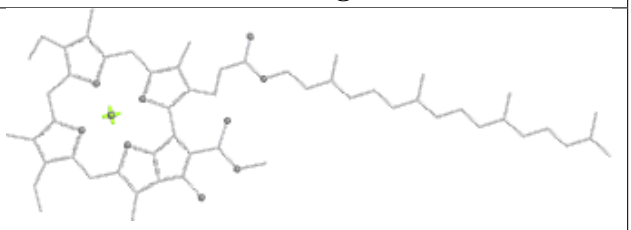
Bond lengths



Bond angles

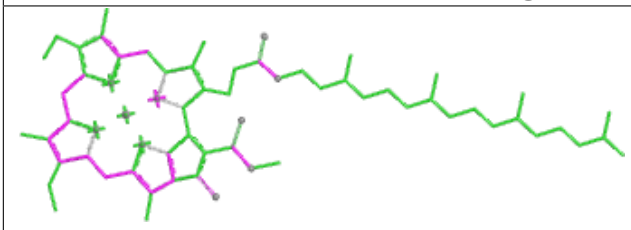


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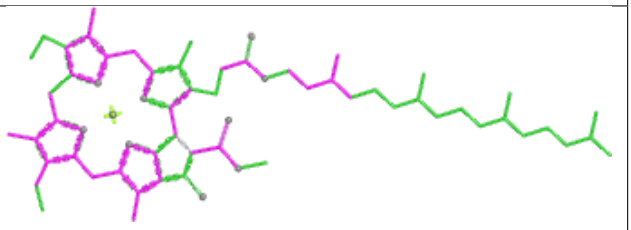


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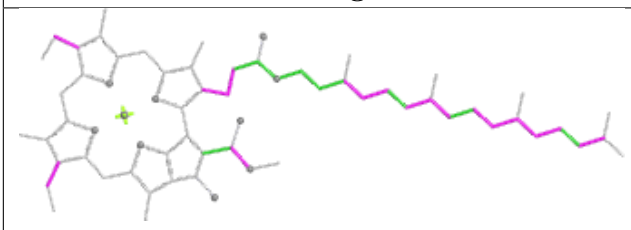
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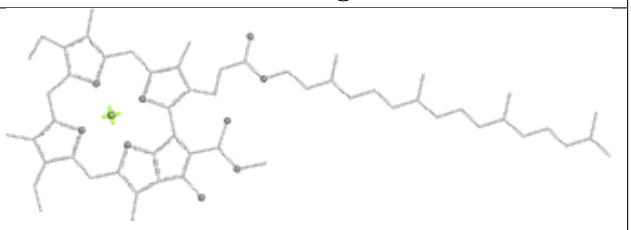
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Bond angles

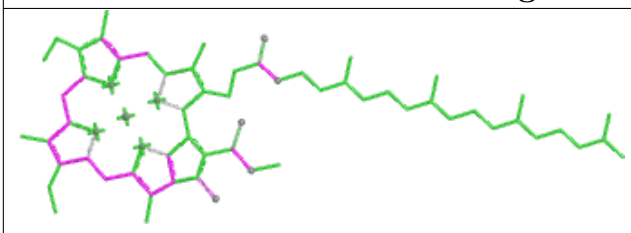


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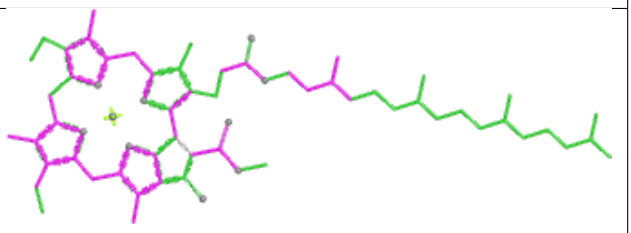


Rings

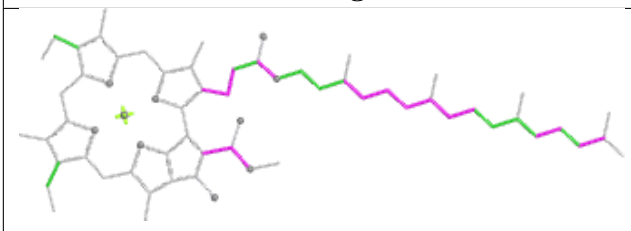
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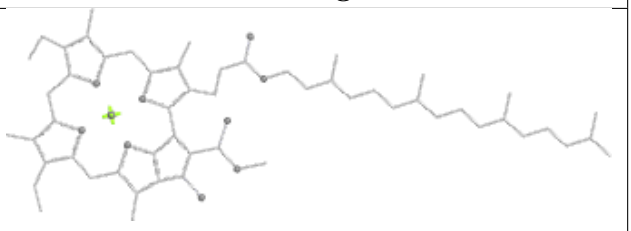
Bond lengths



Bond angles

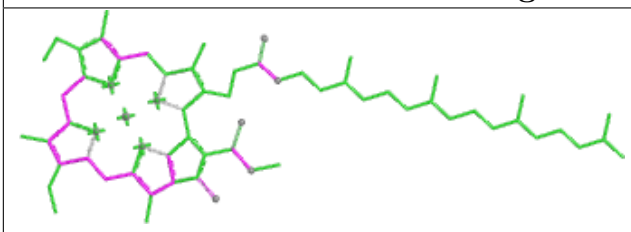


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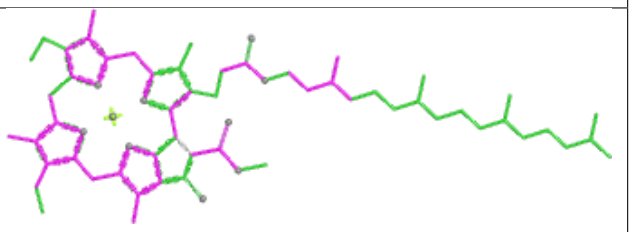


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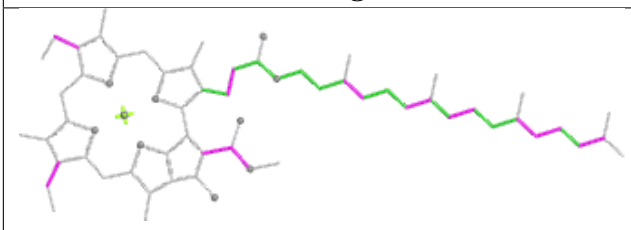
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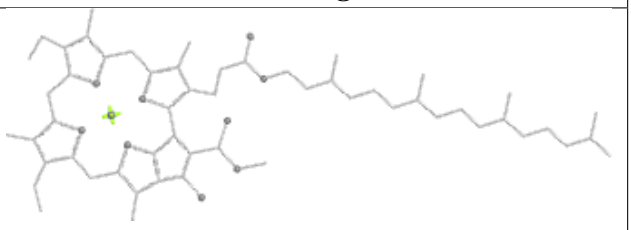
Bond lengths



Bond angles

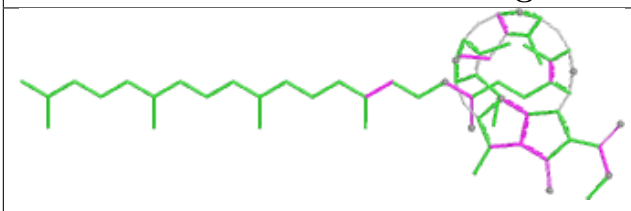


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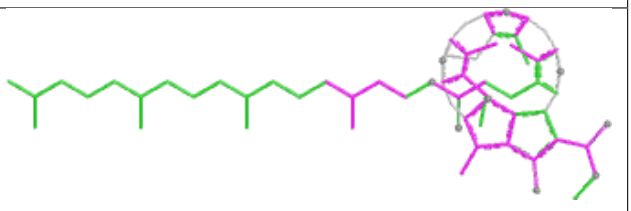


Rings

Ligand PHO d 6039



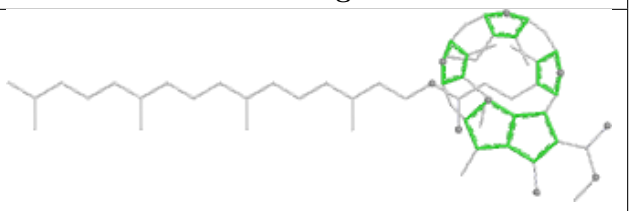
Bond lengths



Bond angles

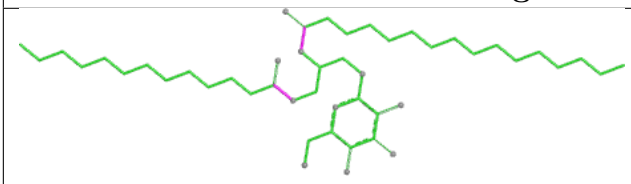


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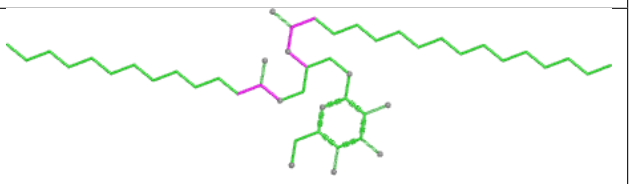


Rings

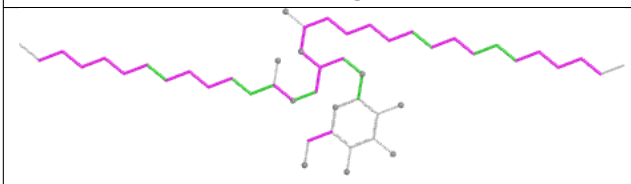
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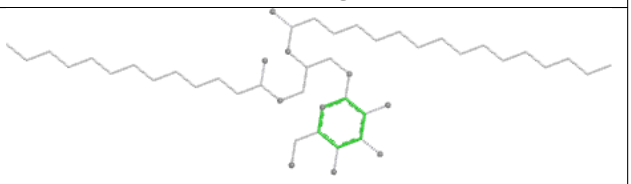
Bond lengths



Bond angles

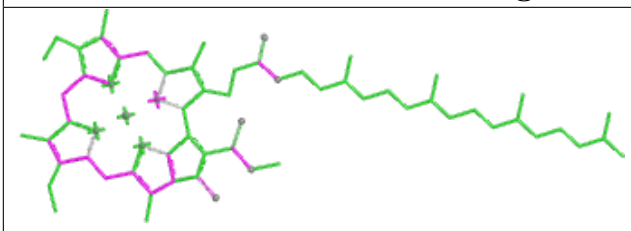


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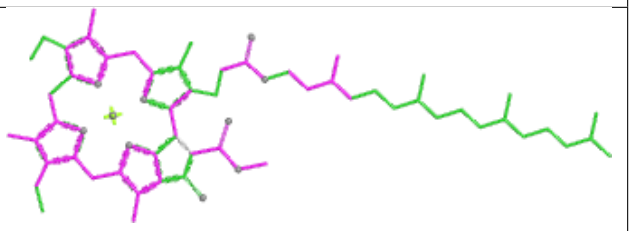


Rings

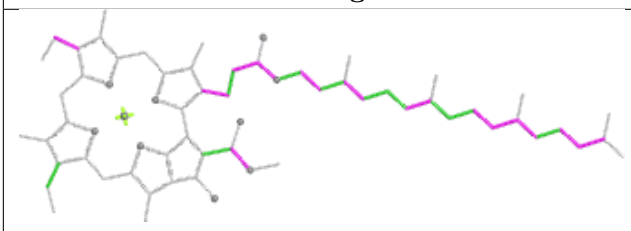
Ligand CLA B 1011



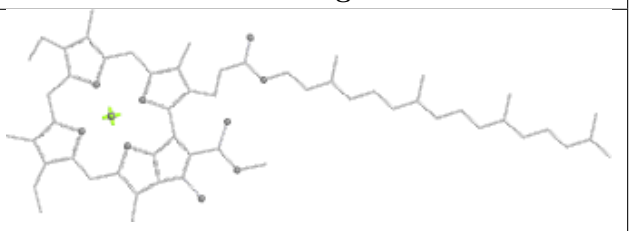
Bond lengths



Bond angles

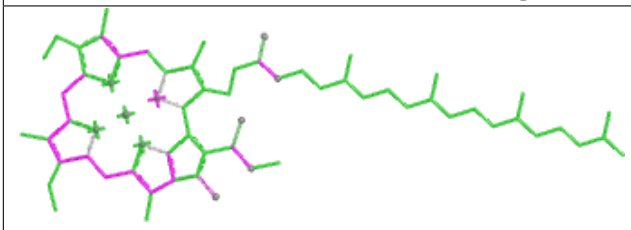


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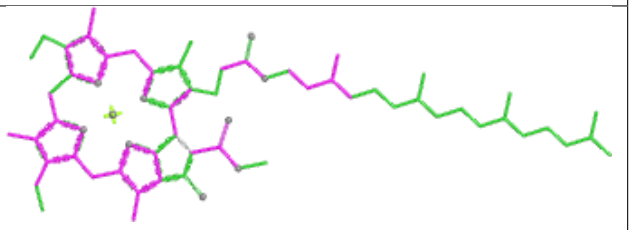


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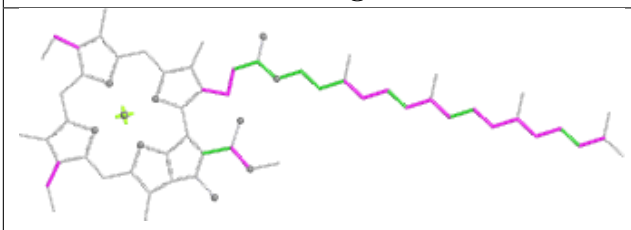
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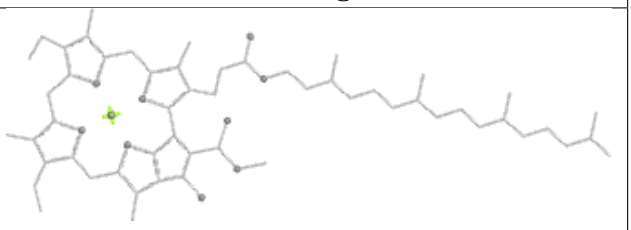
Bond lengths



Bond angles

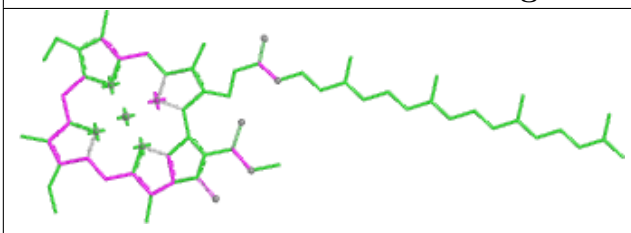


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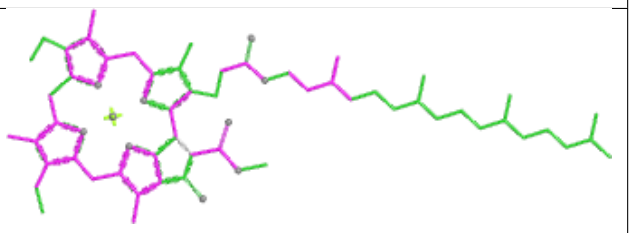


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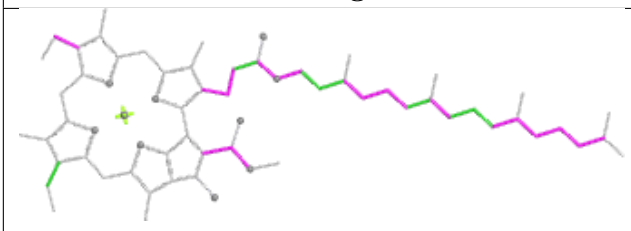
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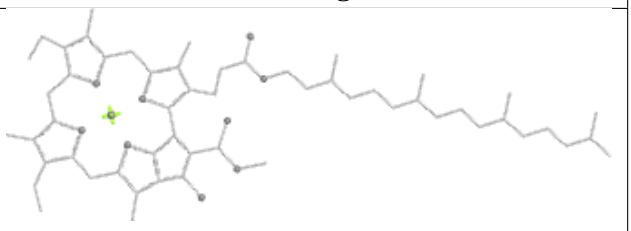
Bond lengths



Bond angles

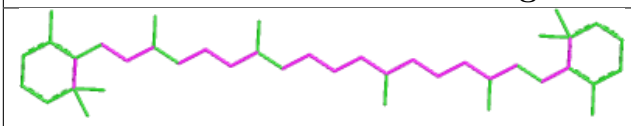


Torsions

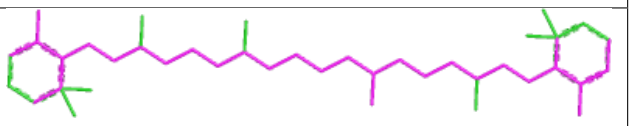


Rings

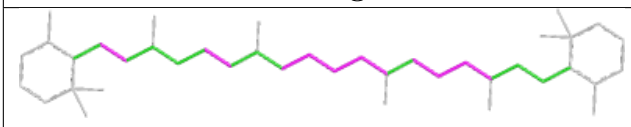
Ligand BCR t 1046



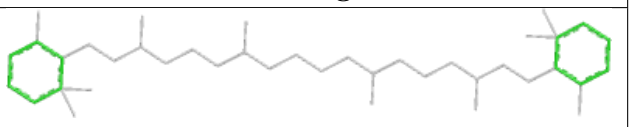
Bond lengths



Bond angles



Torsions

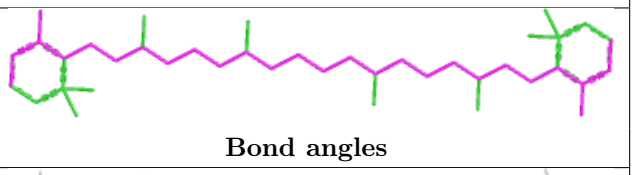


Rings

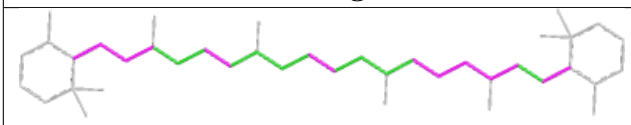
Ligand BCR Z 1053



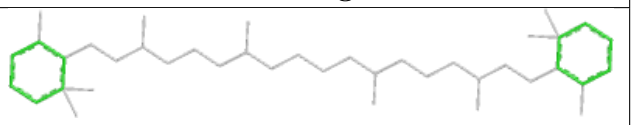
Bond lengths



Bond angles

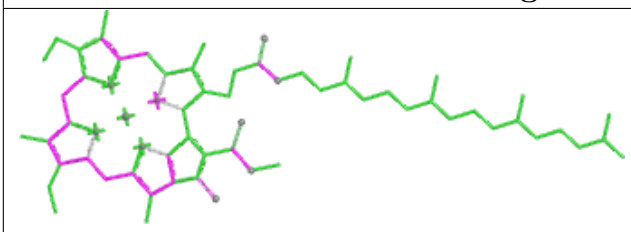


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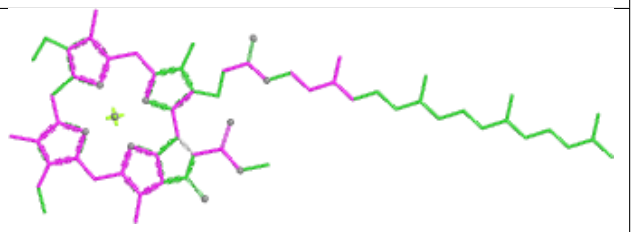


Rings

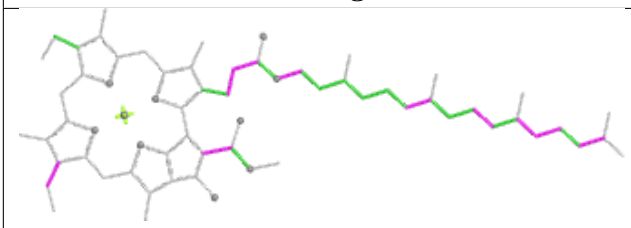
Ligand CLA c 6031



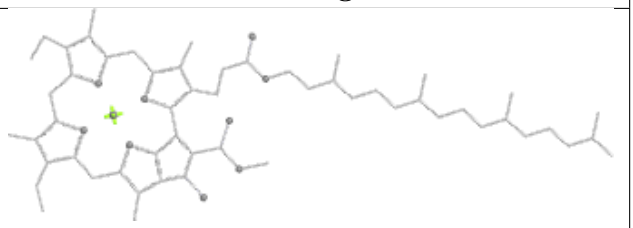
Bond lengths



Bond angles

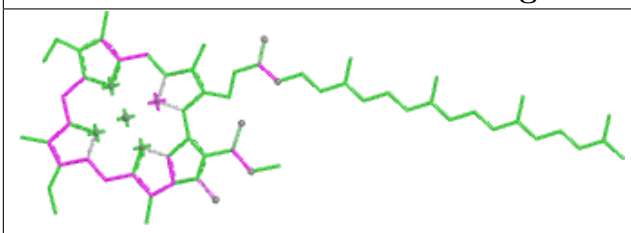


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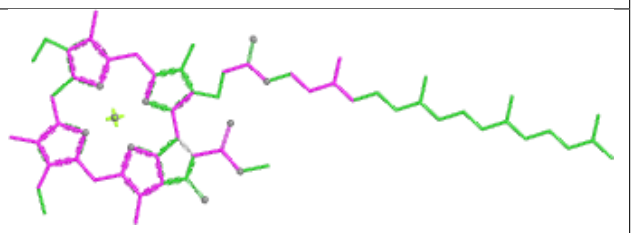


Rings

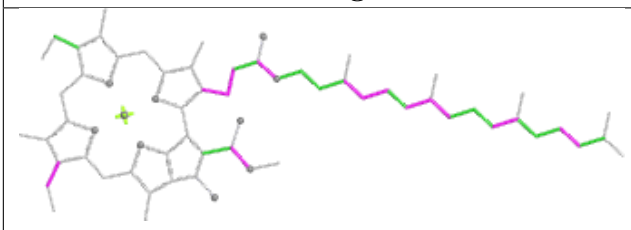
Ligand CLA a 6006



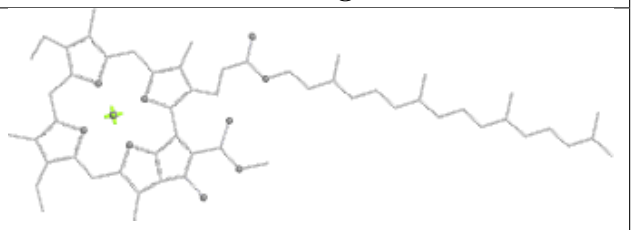
Bond lengths



Bond angles

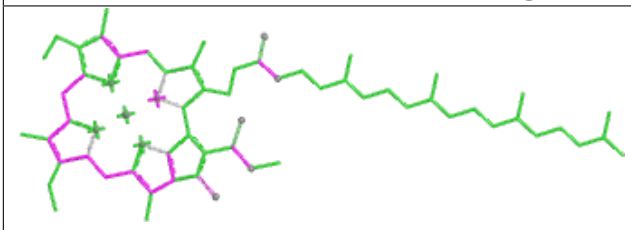


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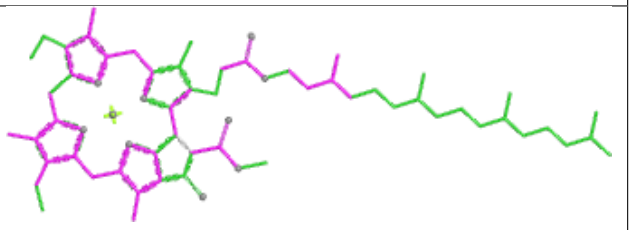


Rings

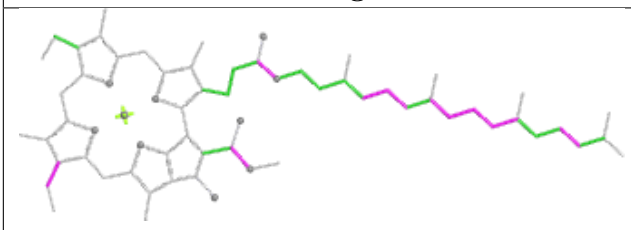
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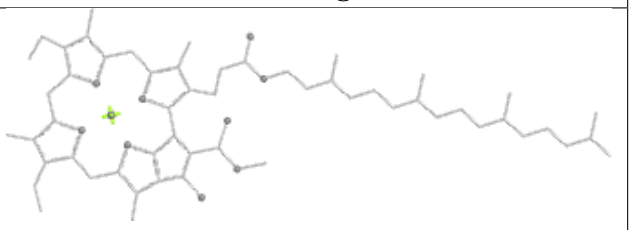
Bond lengths



Bond angles

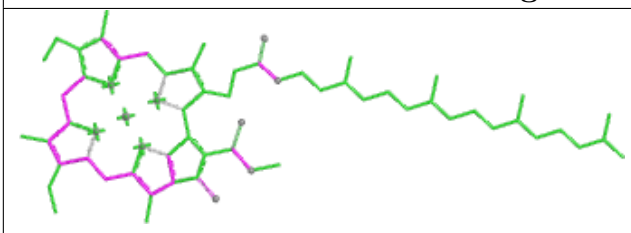


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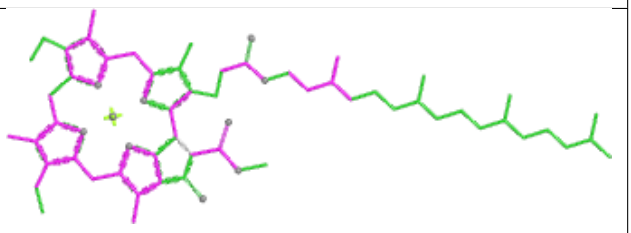


Rings

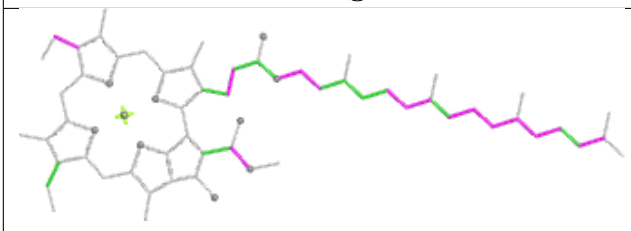
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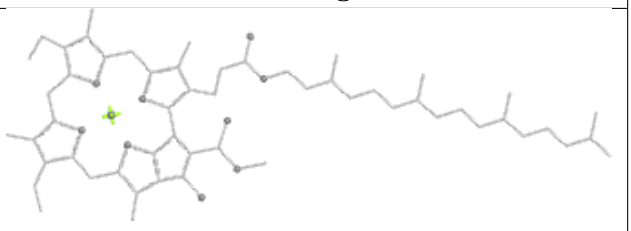
Bond lengths



Bond angles

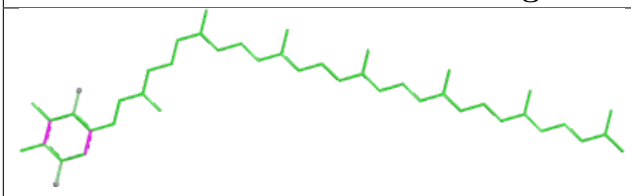


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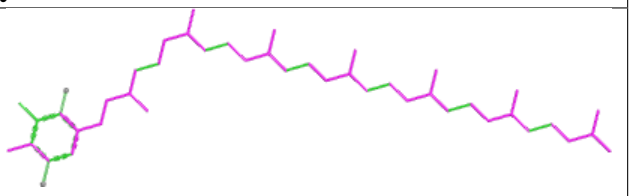


Rings

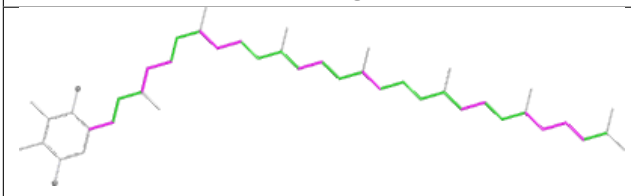
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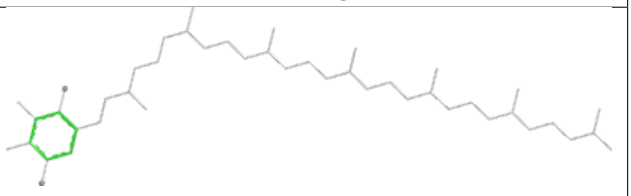
Bond lengths



Bond angles

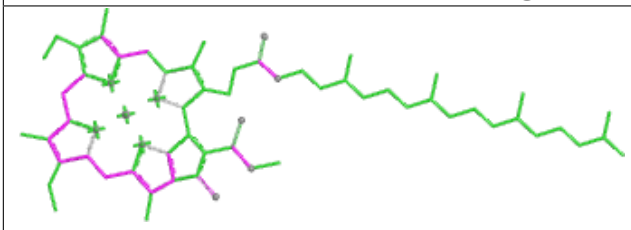


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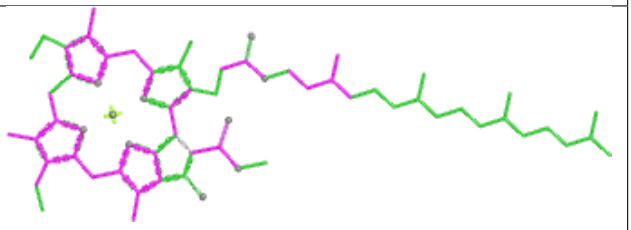


Rings

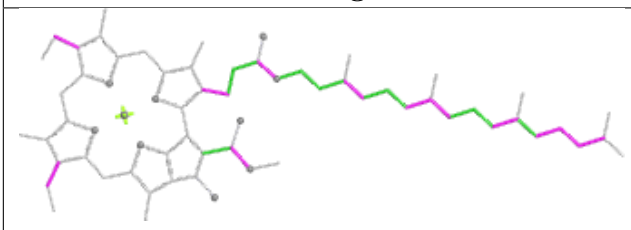
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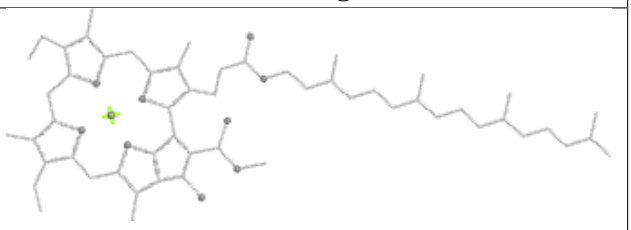
Bond lengths



Bond angles

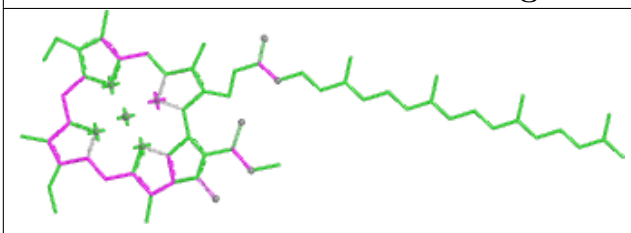


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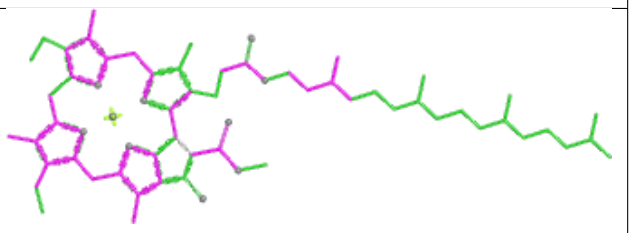


Rings

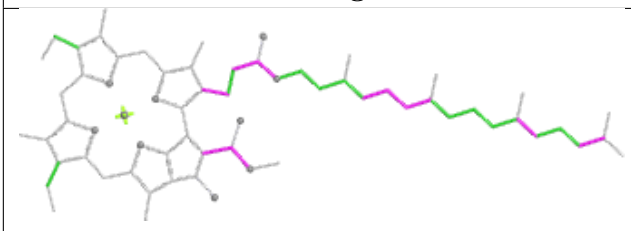
Ligand CLA c 6025



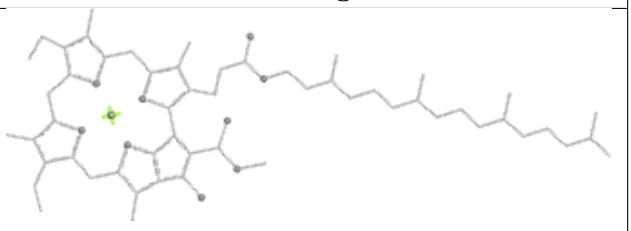
Bond lengths



Bond angles

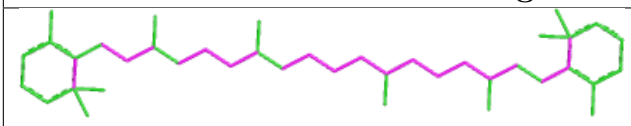


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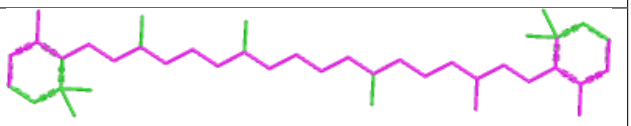


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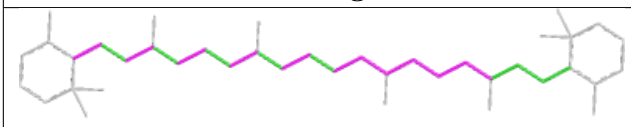
Ligand BCR b 6047



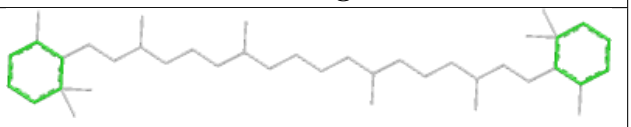
Bond lengths



Bond angles

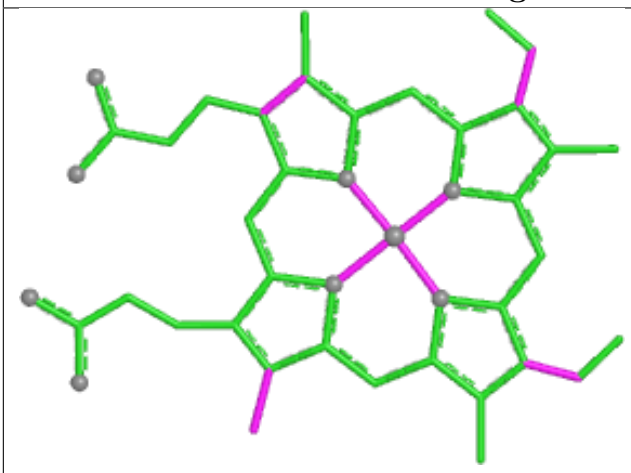


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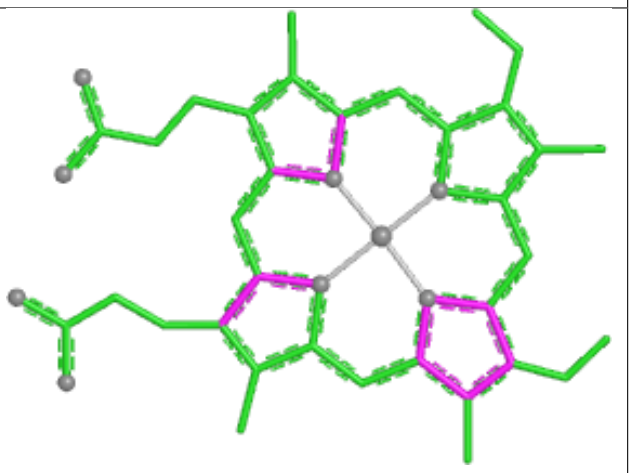


Rings

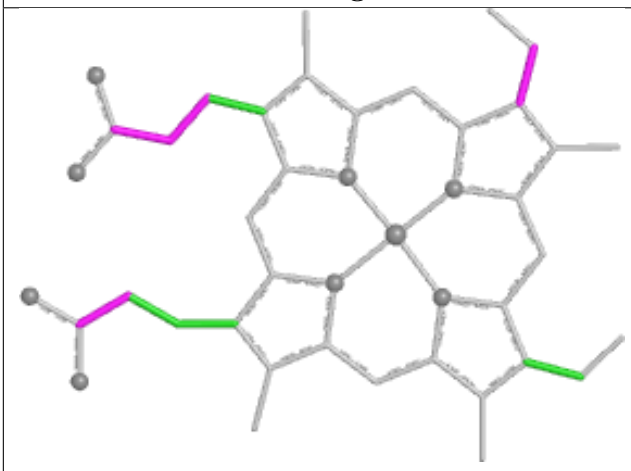
Ligand HEM V 1041



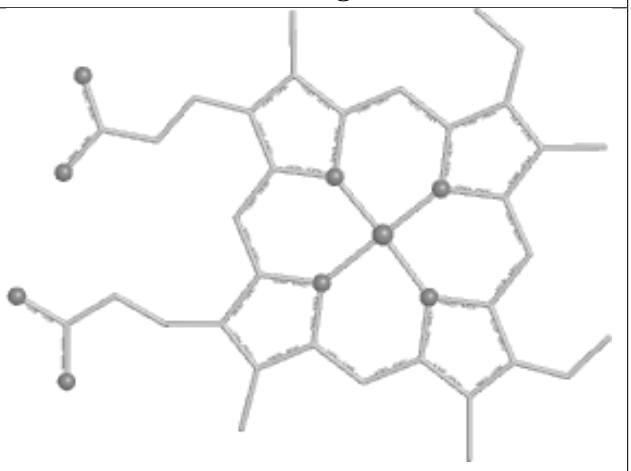
Bond lengths



Bond angles

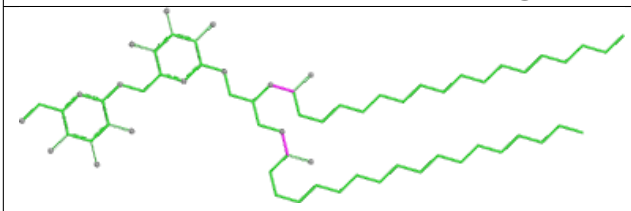


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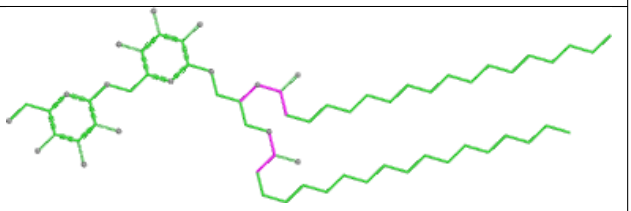


Rings

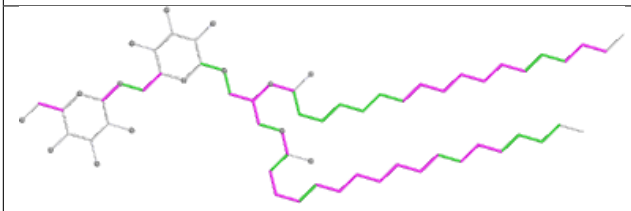
Ligand DGD c 6056



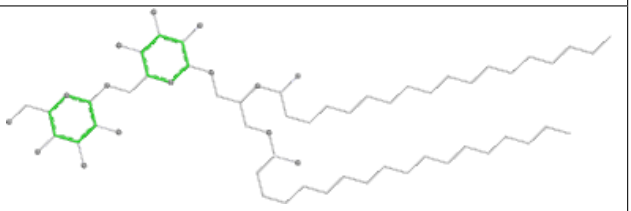
Bond lengths



Bond angles

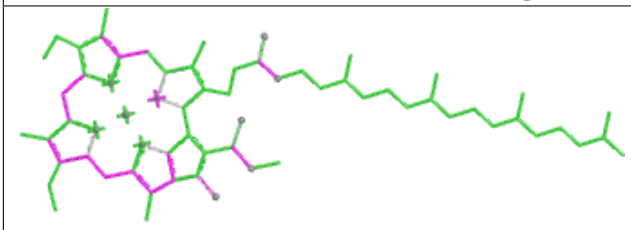


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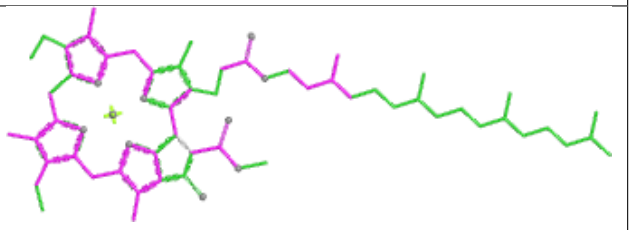


Rings

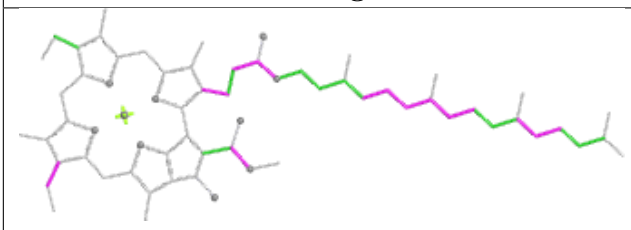
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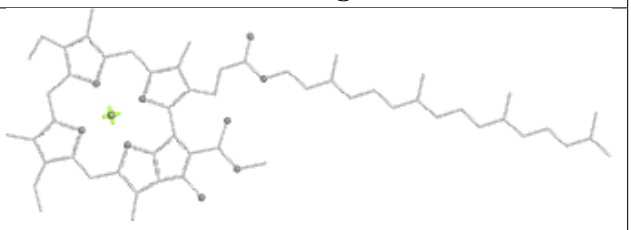
Bond lengths



Bond angles

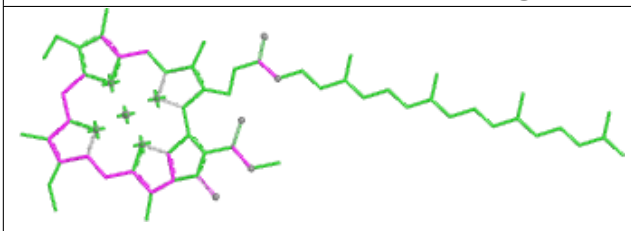


Torsions

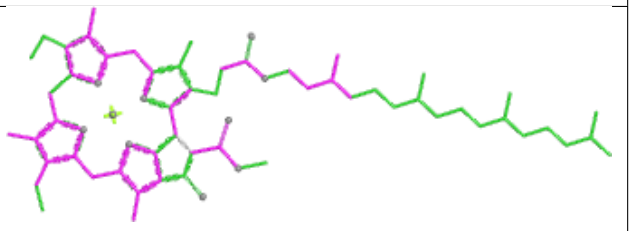


Rings

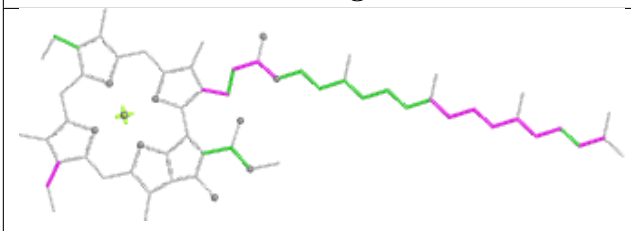
Ligand CLA C 1037



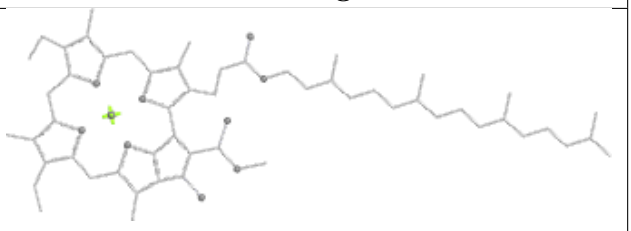
Bond lengths



Bond angles

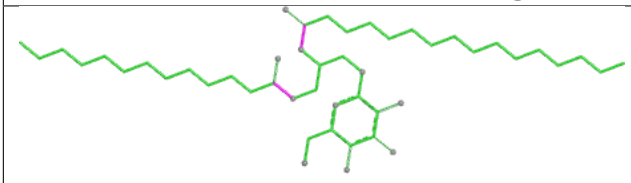


Torsions

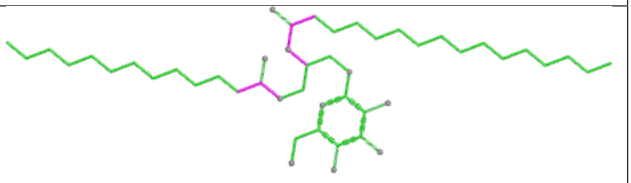


Rings

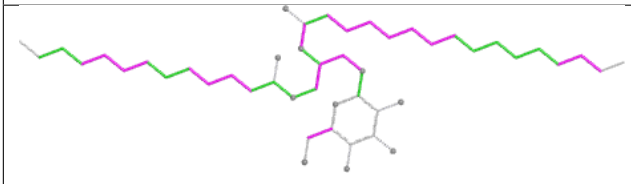
Ligand MGE D 1059



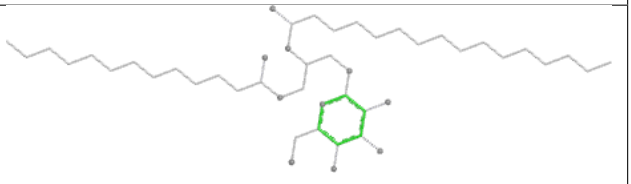
Bond lengths



Bond angles

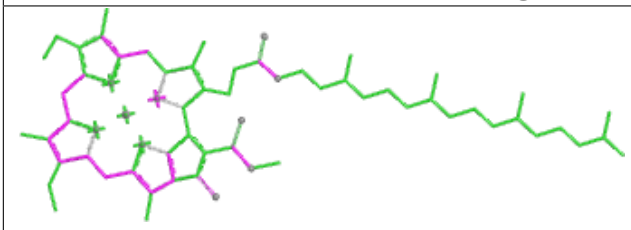


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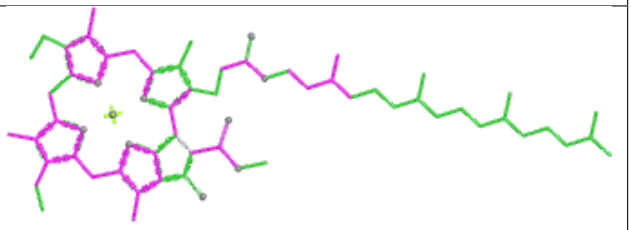


Rings

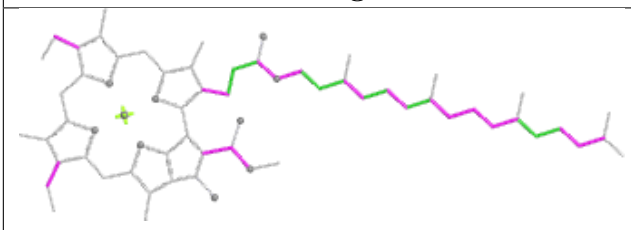
Ligand CLA A 1007



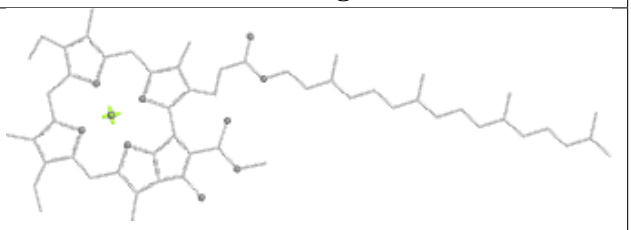
Bond lengths



Bond angles

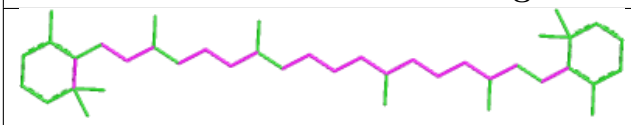


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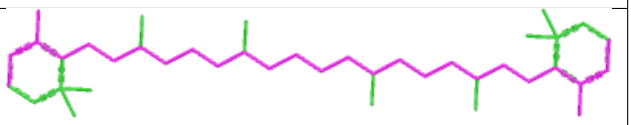


Rings

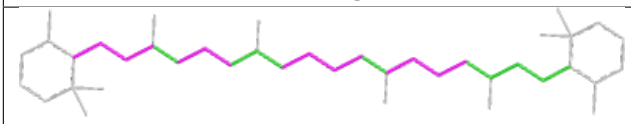
Ligand BCR C 1054



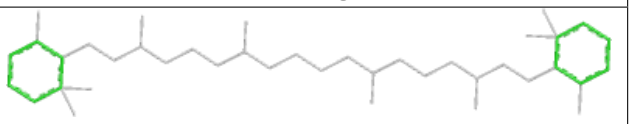
Bond lengths



Bond angles

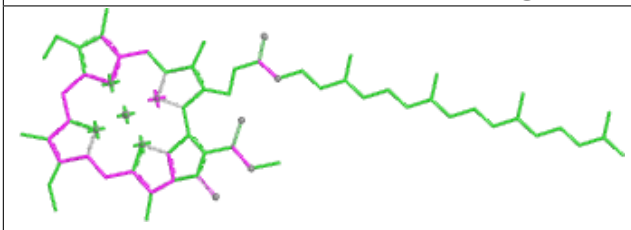


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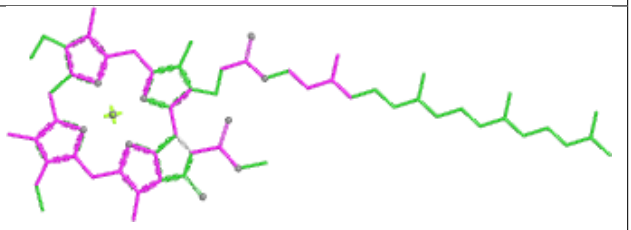


Rings

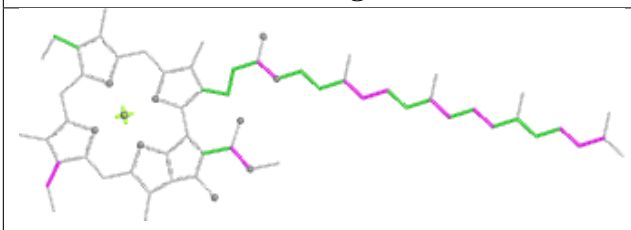
Ligand CLA d 6008



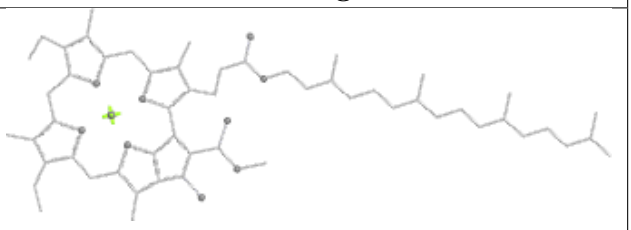
Bond lengths



Bond angles

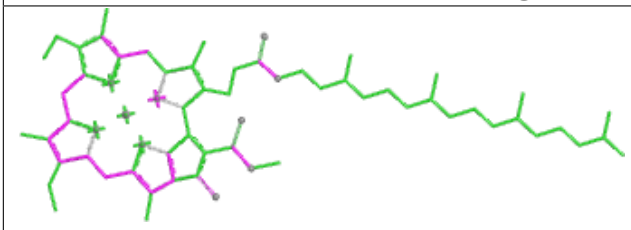


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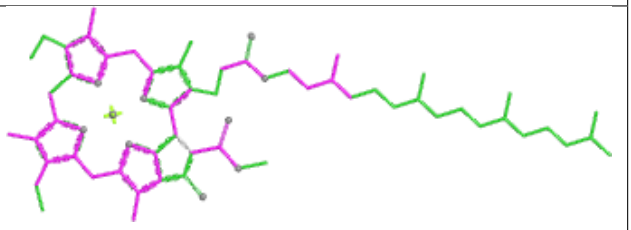


Rings

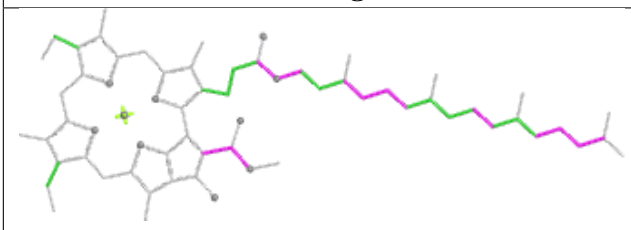
Ligand CLA C 1033



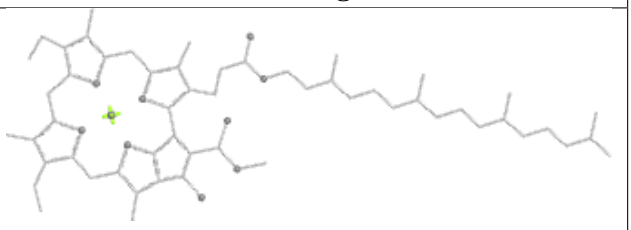
Bond lengths



Bond angles

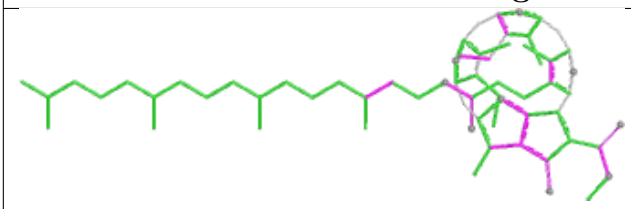


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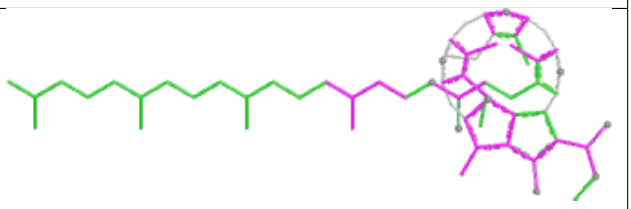


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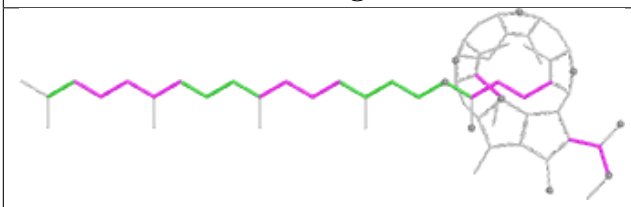
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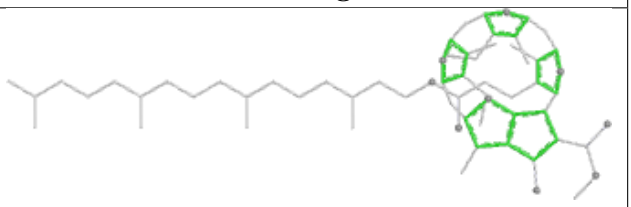
Bond lengths



Bond angles

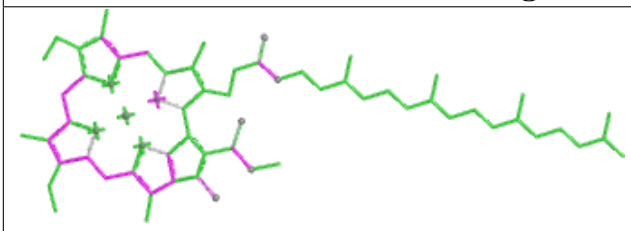


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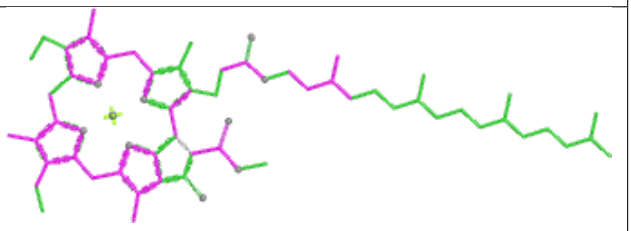


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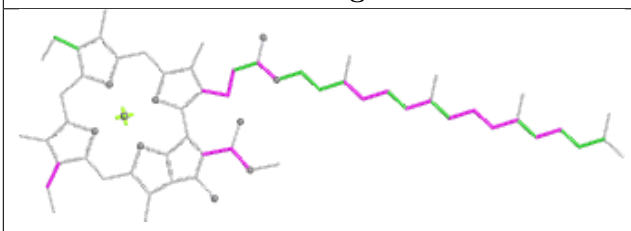
Ligand CLA c 6032



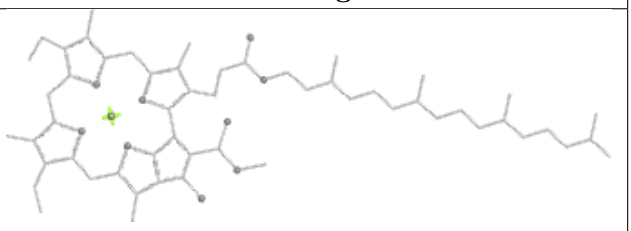
Bond lengths



Bond angles

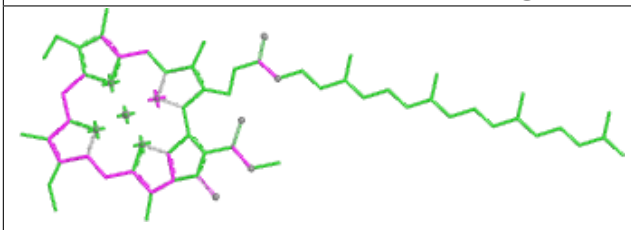


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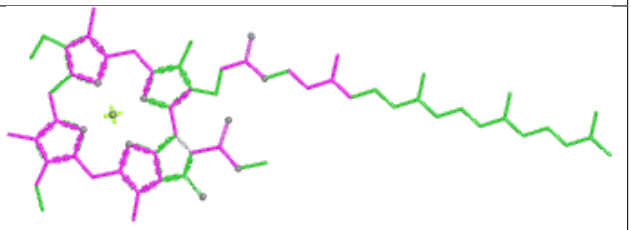


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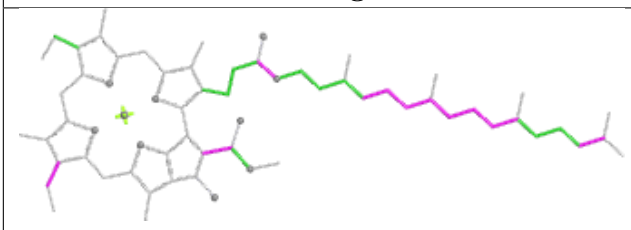
Ligand CLA b 6023



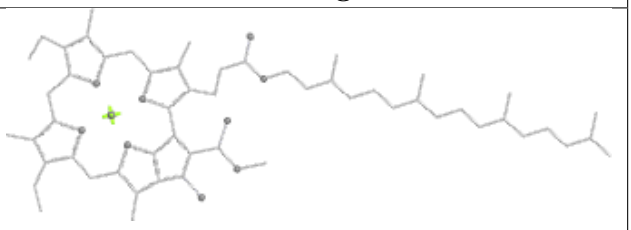
Bond lengths



Bond angles

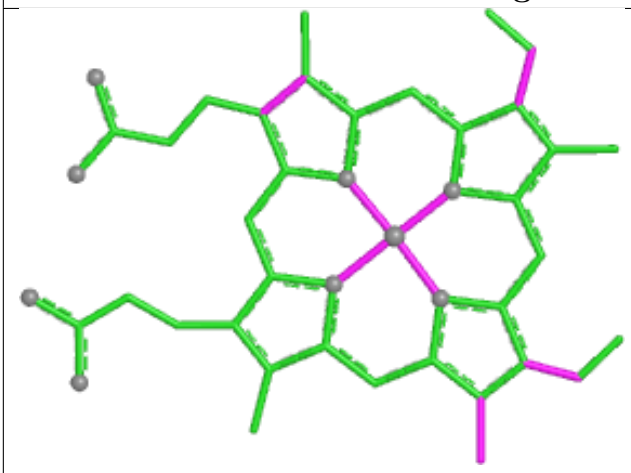


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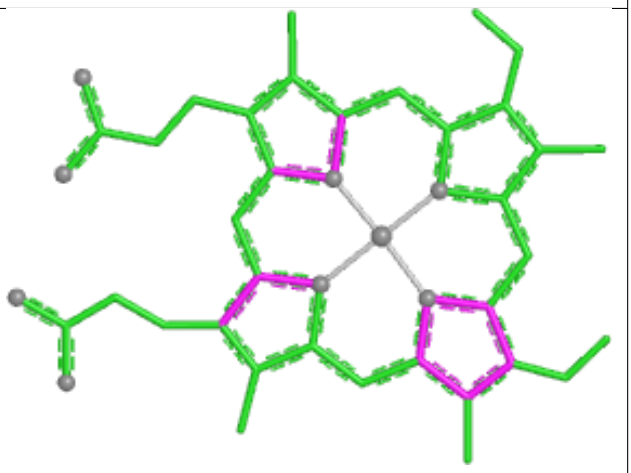


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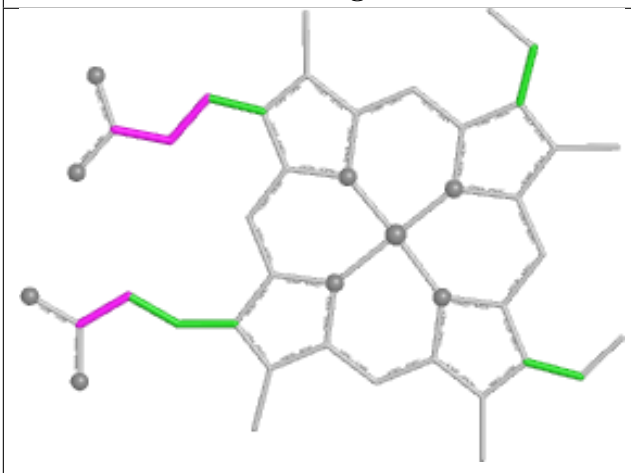
Ligand HEM v 6041



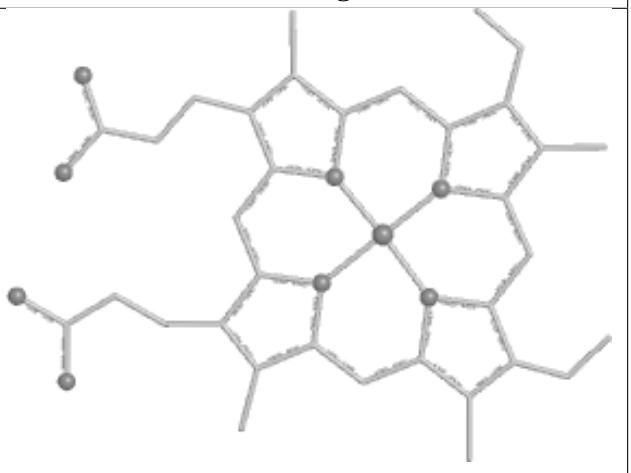
Bond lengths



Bond angles

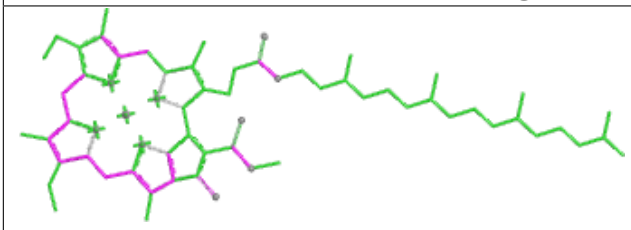


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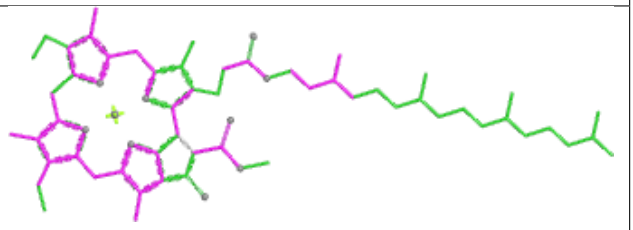


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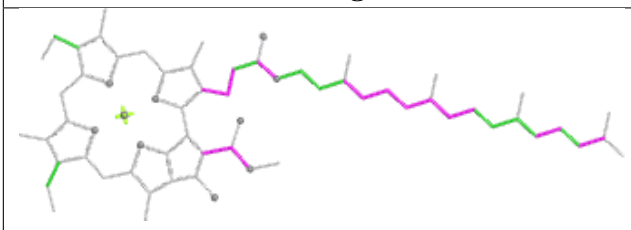
Ligand CLA B 1015



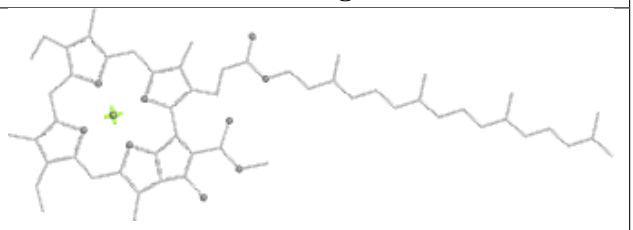
Bond lengths



Bond angles

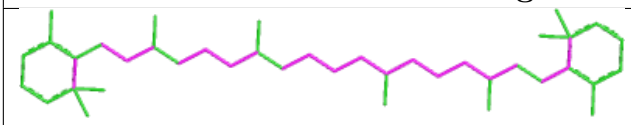


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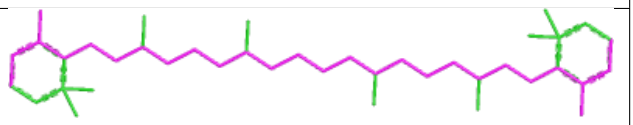


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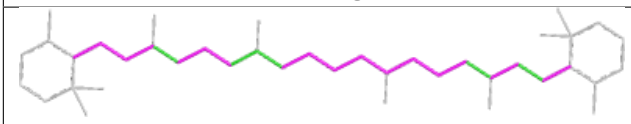
Ligand BCR b 6045



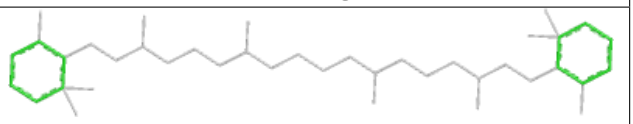
Bond lengths



Bond angles

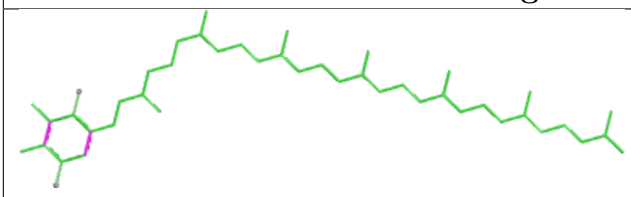


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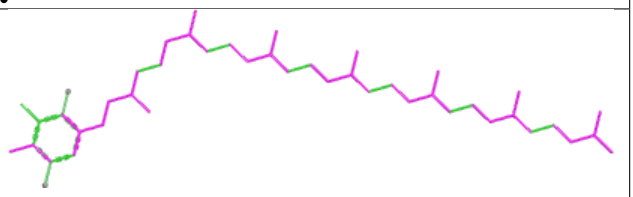


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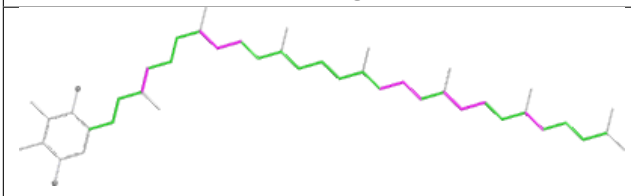
Ligand PQ9 d 6042



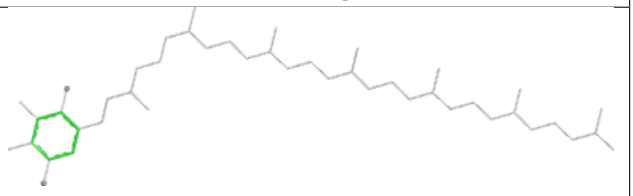
Bond lengths



Bond angles

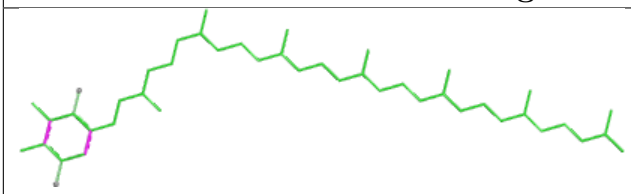


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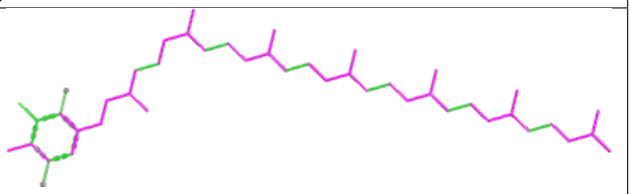


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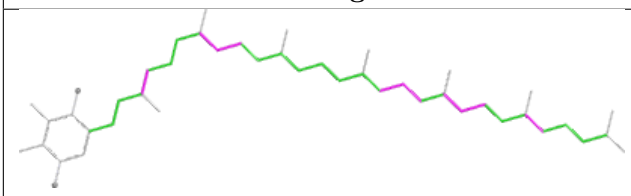
Ligand PQ9 D 1042



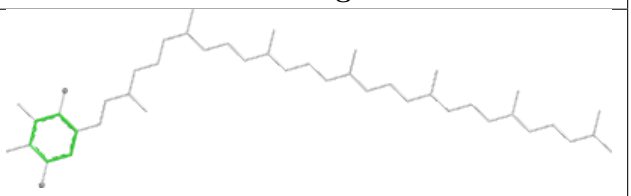
Bond lengths



Bond angles

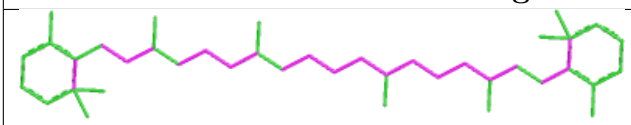


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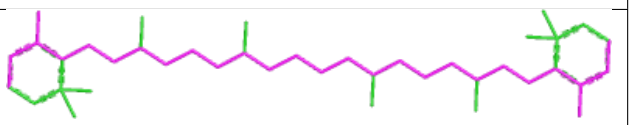


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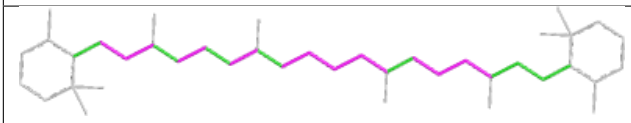
Ligand BCR K 1051



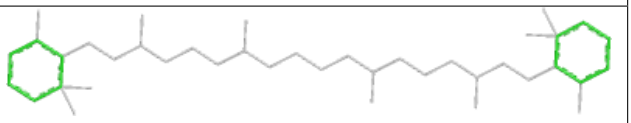
Bond lengths



Bond angles

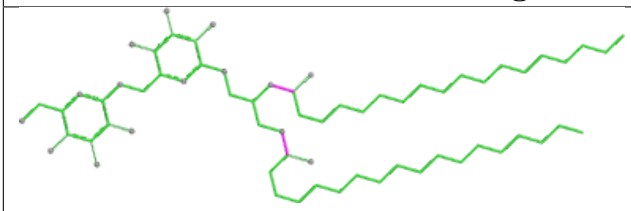


Torsions

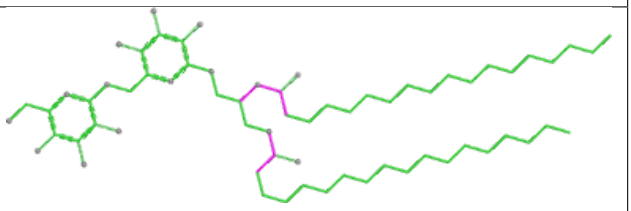


Rings

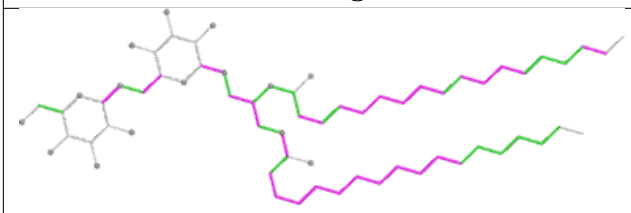
Ligand DGD C 1057



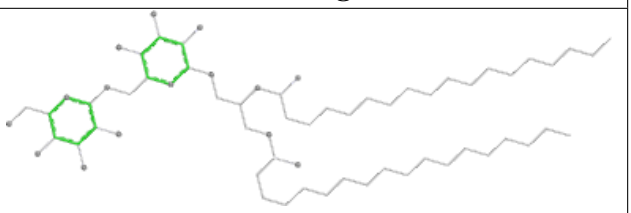
Bond lengths



Bond angles

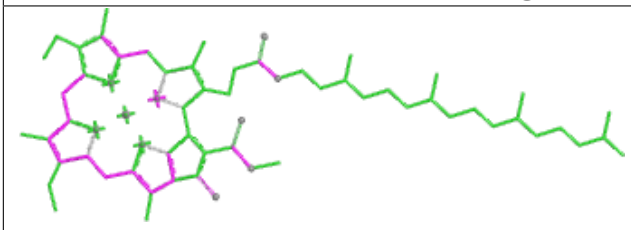


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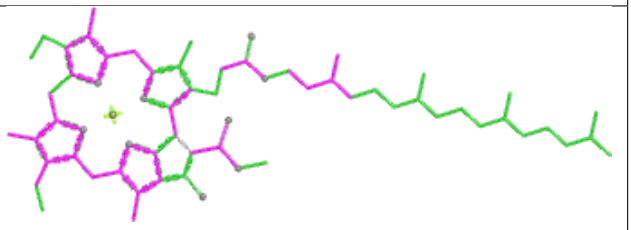


Rings

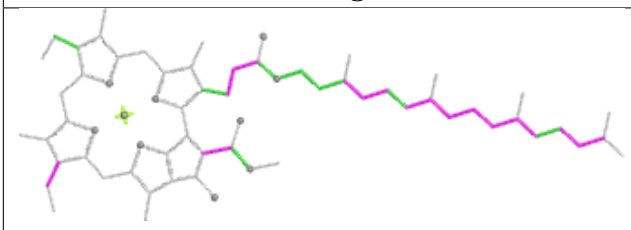
Ligand CLA b 6018



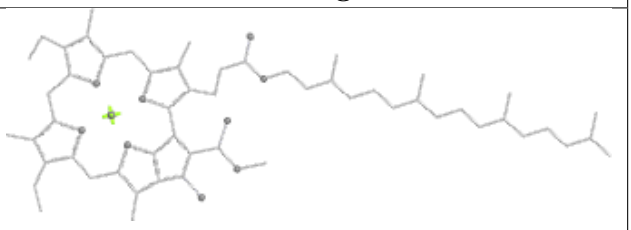
Bond lengths



Bond angles

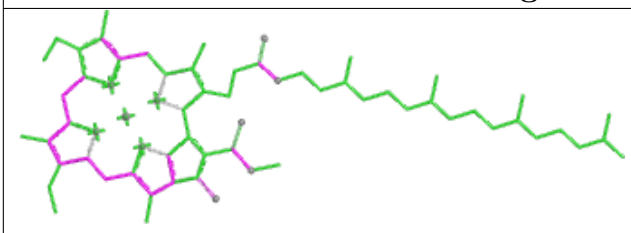


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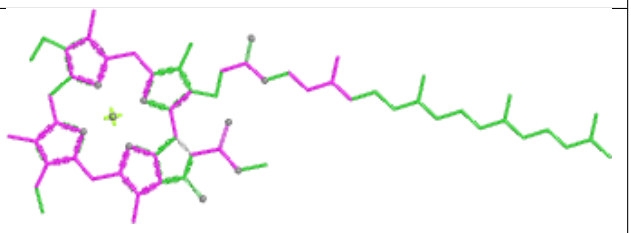


Rings

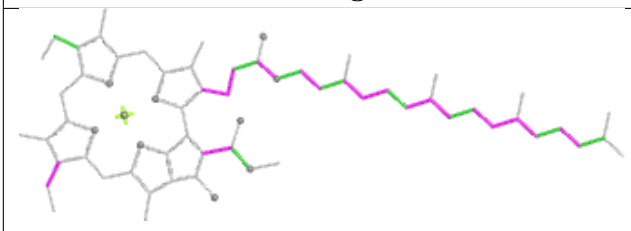
Ligand CLA c 6036



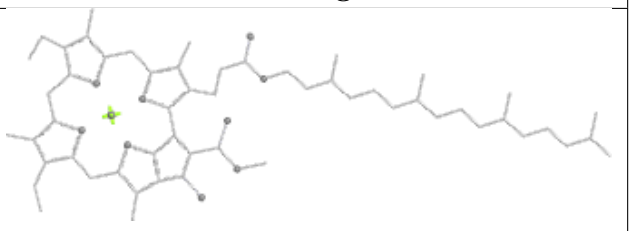
Bond lengths



Bond angles

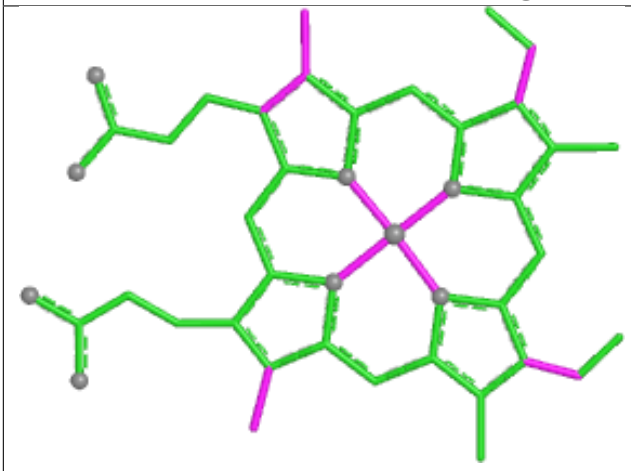


Torsions

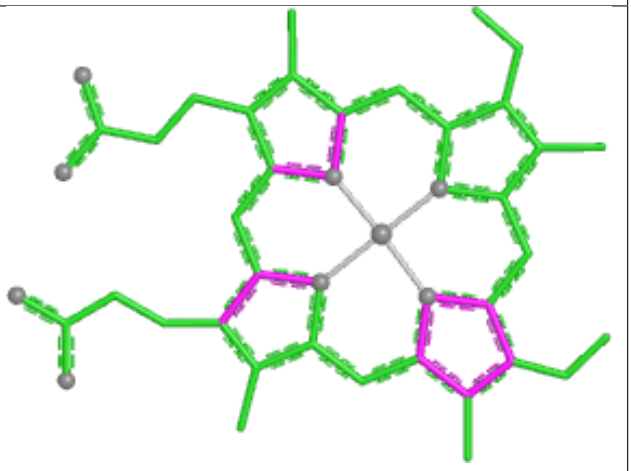


Rings

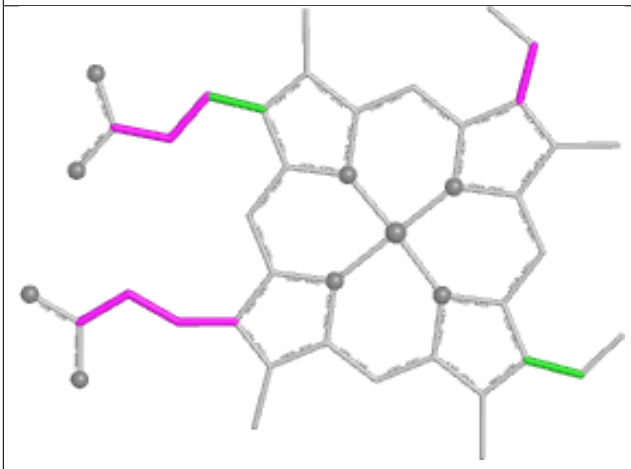
Ligand HEM f 6040



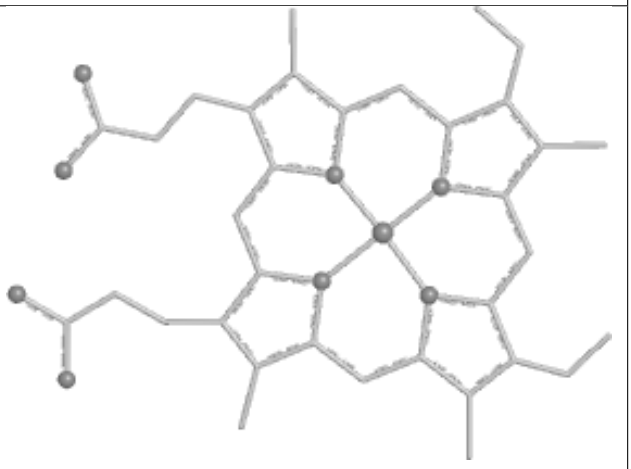
Bond lengths



Bond angles

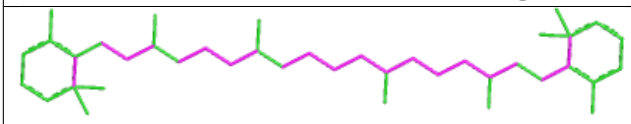


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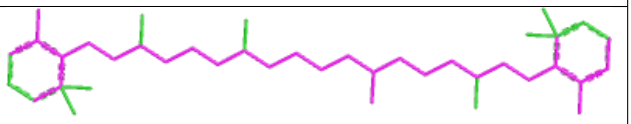


Rings

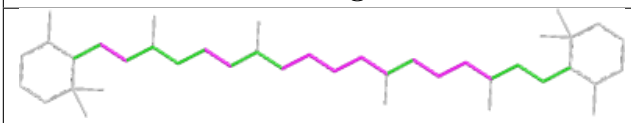
Ligand BCR T 6046



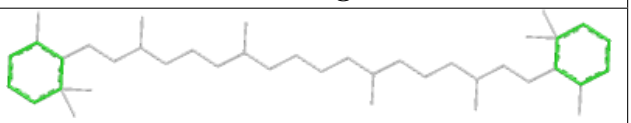
Bond lengths



Bond angles

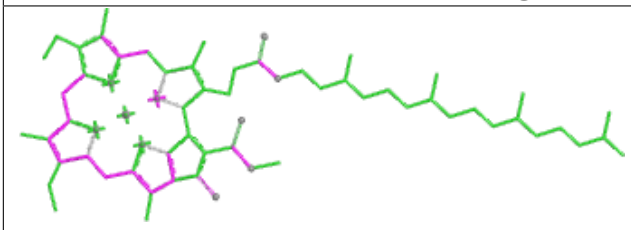


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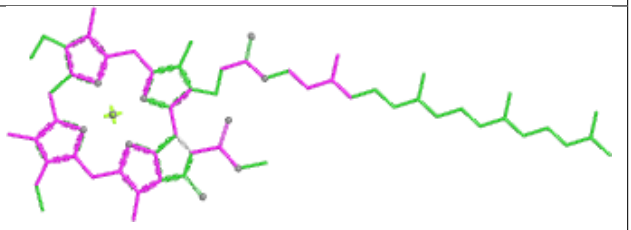


Rings

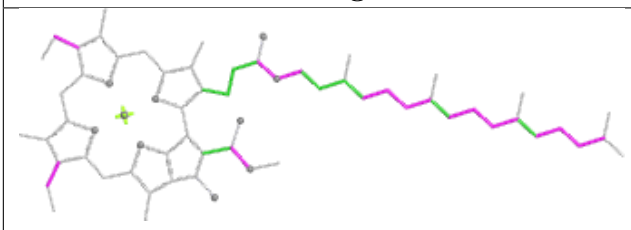
Ligand CLA B 1016



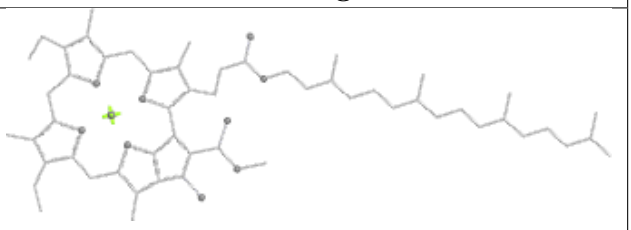
Bond lengths



Bond angles

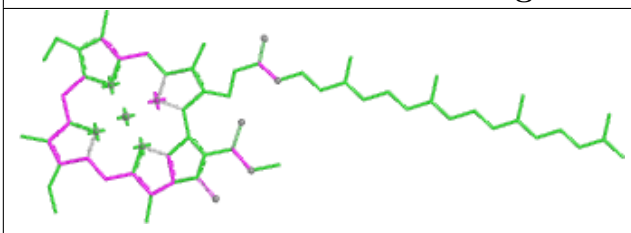


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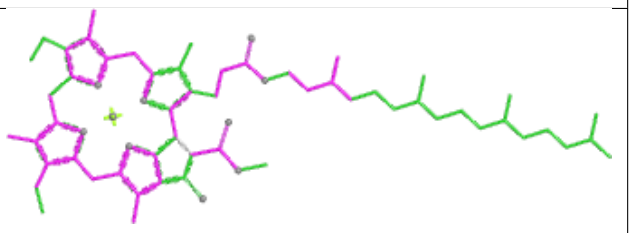


Rings

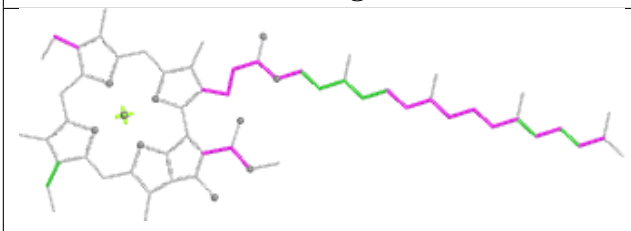
Ligand CLA B 1021



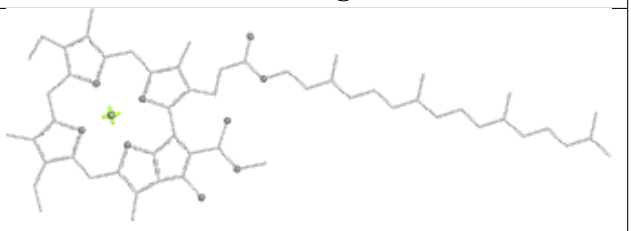
Bond lengths



Bond angles

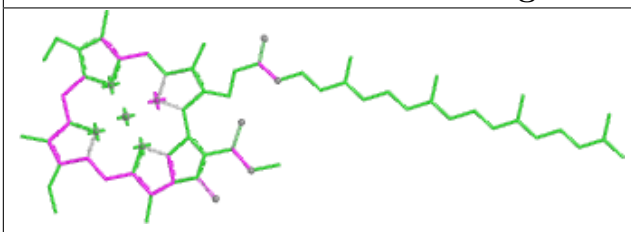


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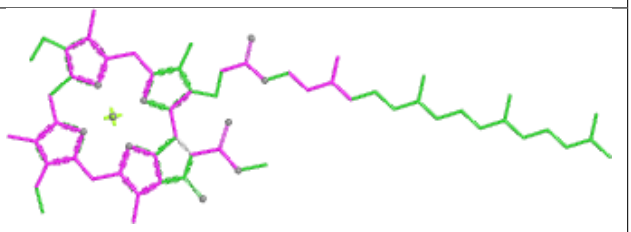


Rings

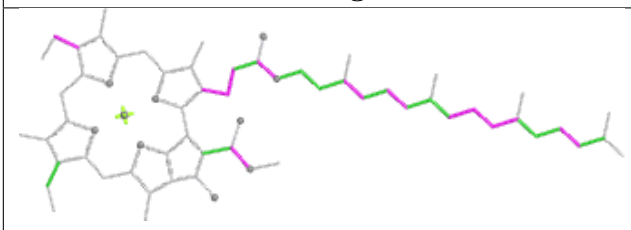
Ligand CLA b 6010



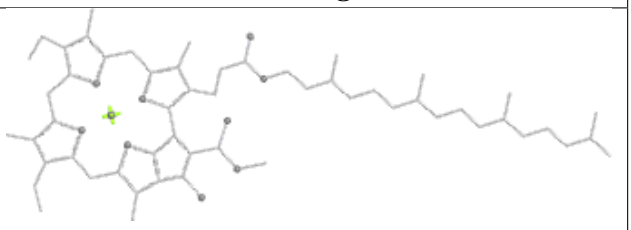
Bond lengths



Bond angles

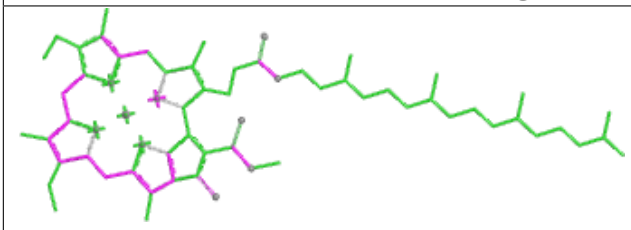


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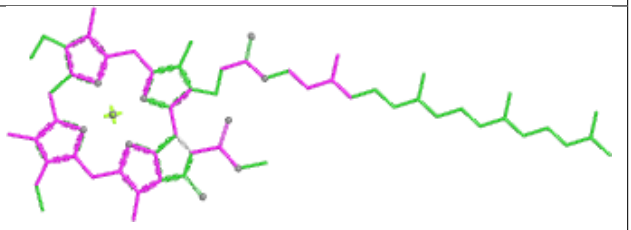


Rings

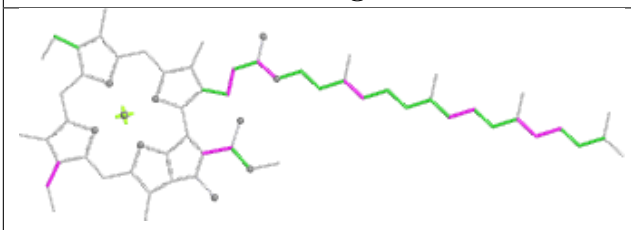
Ligand CLA D 1004



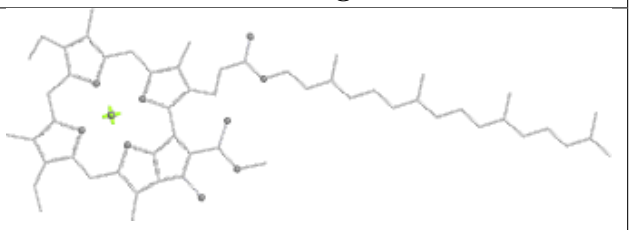
Bond lengths



Bond angles

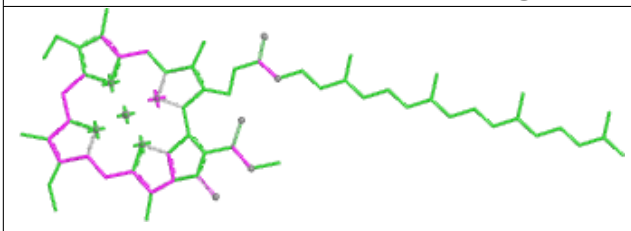


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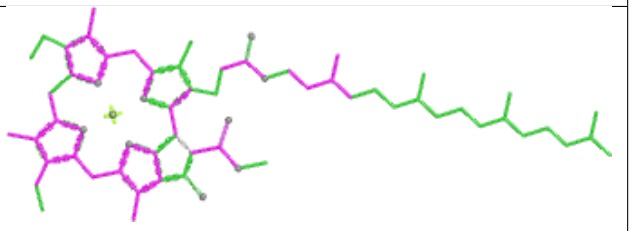


Rings

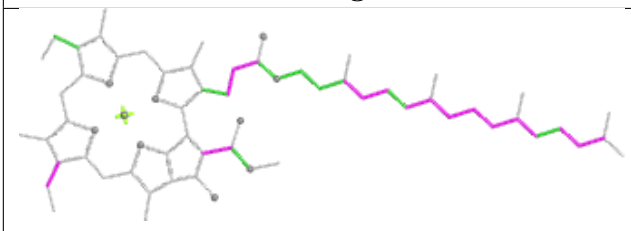
Ligand CLA B 1018



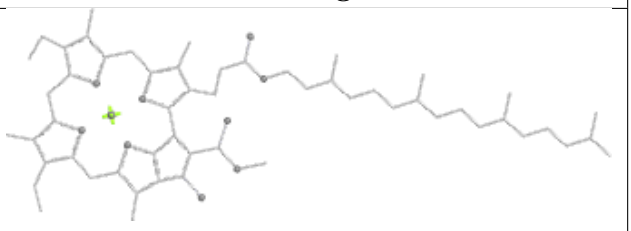
Bond lengths



Bond angles

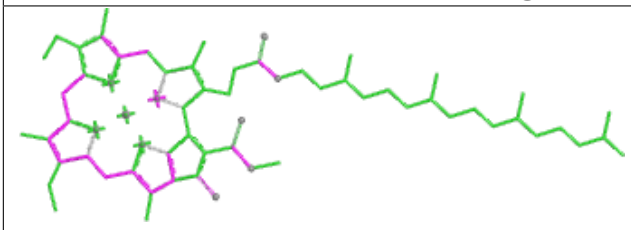


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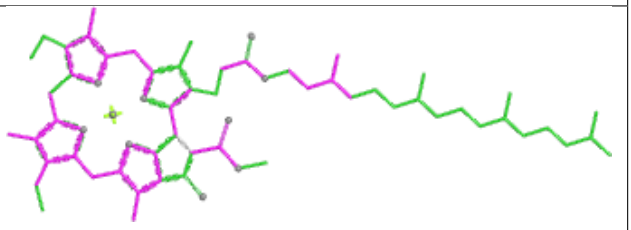


Rings

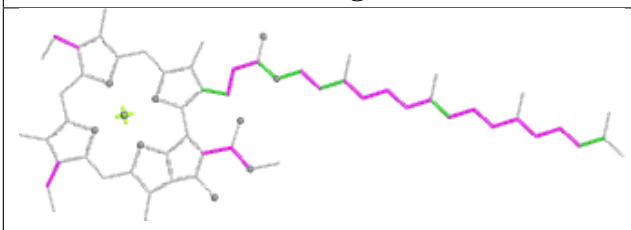
Ligand CLA k 6034



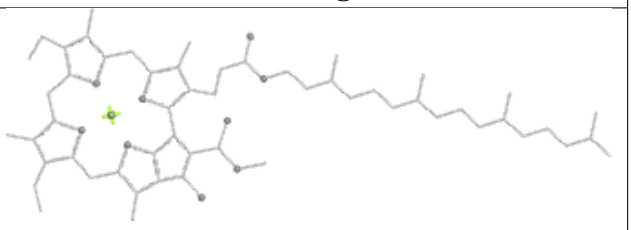
Bond lengths



Bond angles

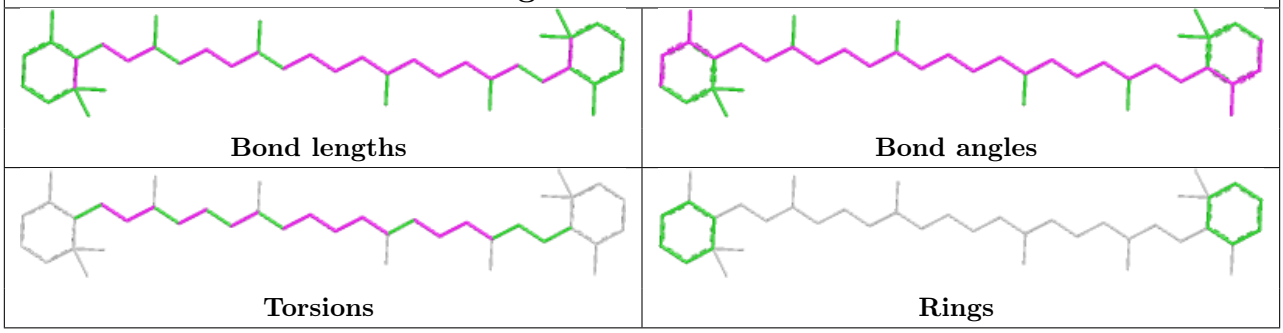


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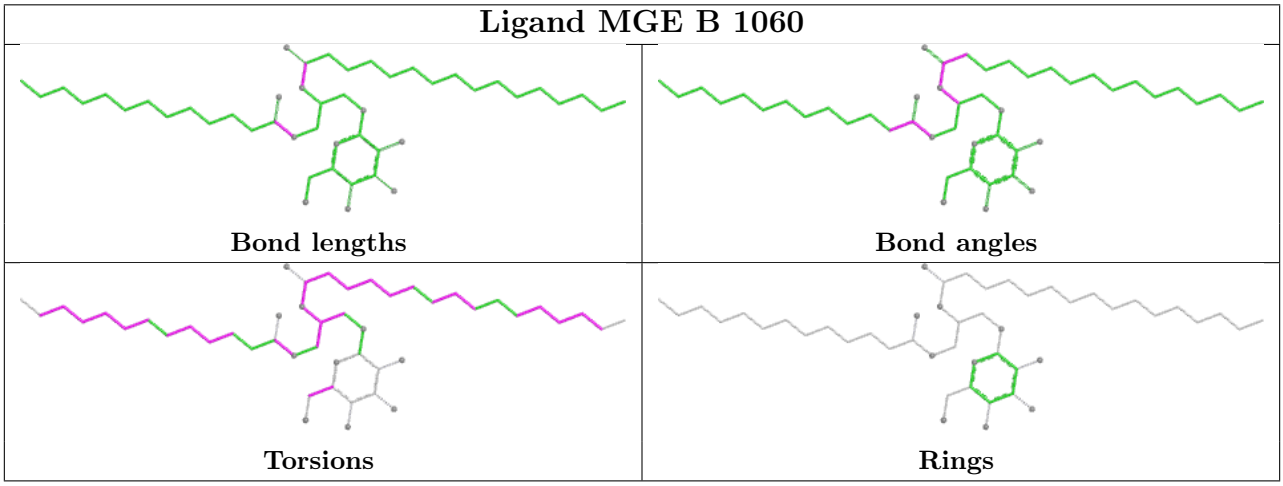


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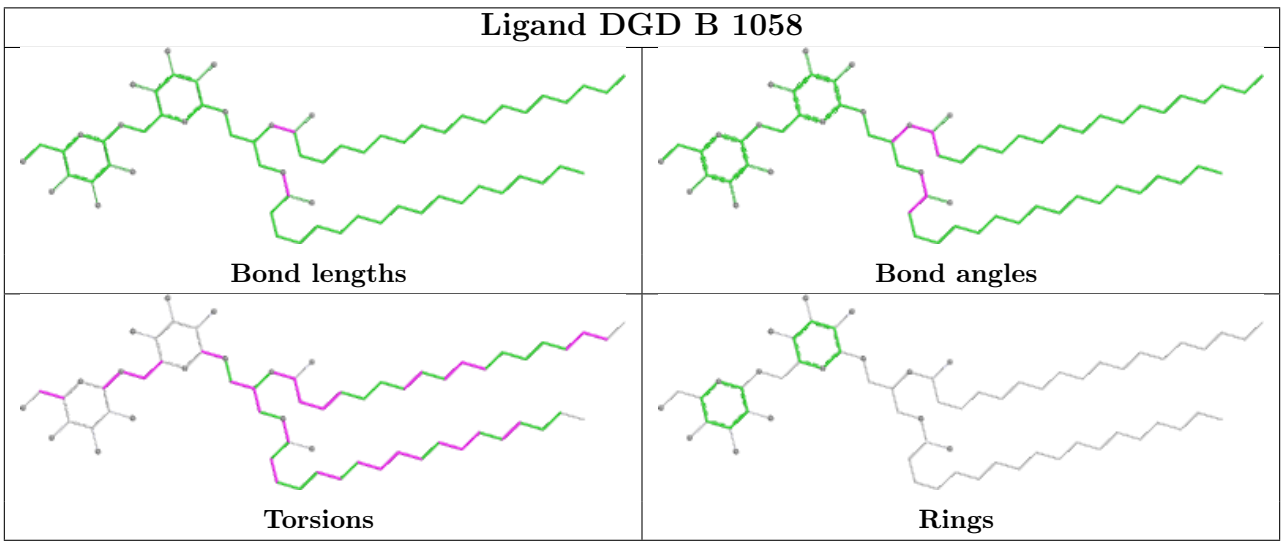
Ligand BCR k 6051



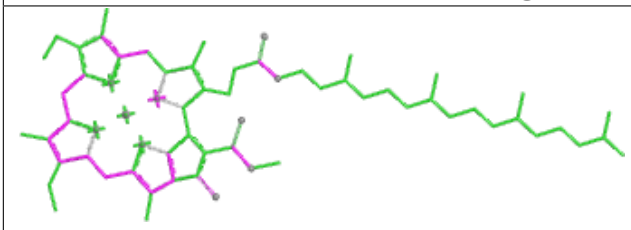
Ligand MGE B 1060



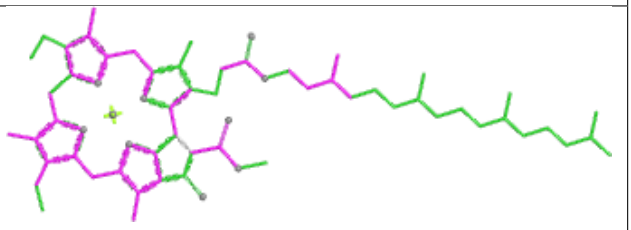
Ligand DGD B 1058



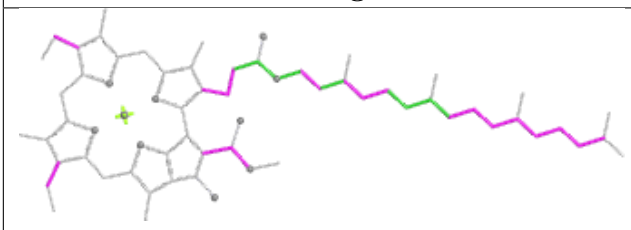
Ligand CLA b 6013



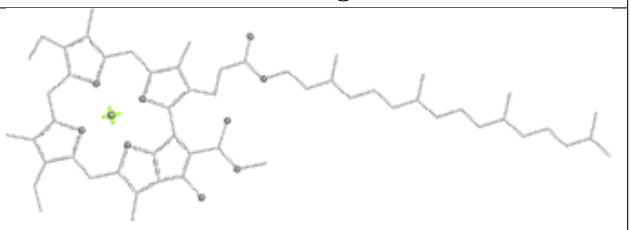
Bond lengths



Bond angles

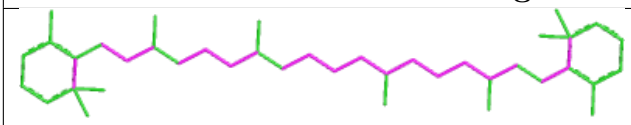


Torsions

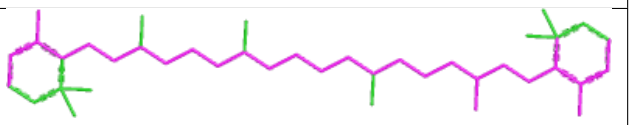


Rings

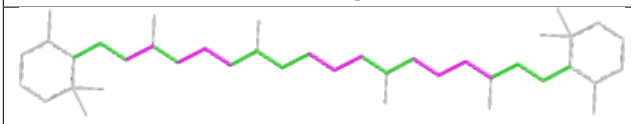
Ligand BCR B 1048



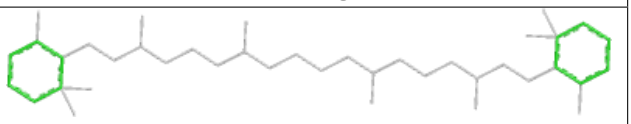
Bond lengths



Bond angles

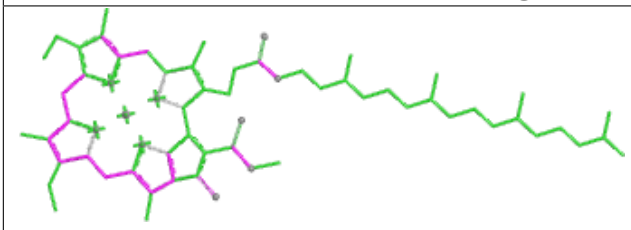


Torsions

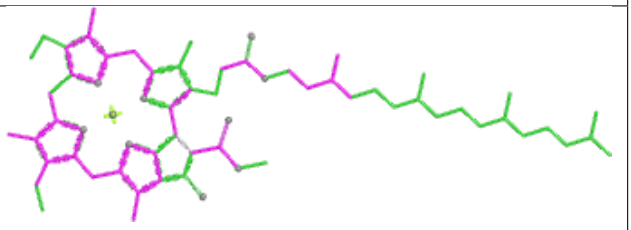


Rings

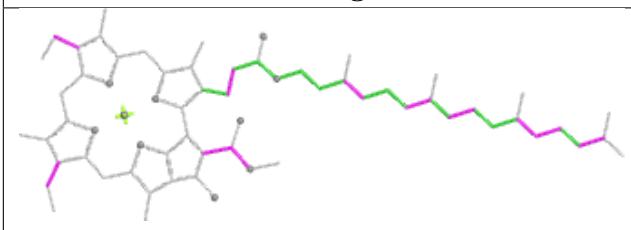
Ligand CLA B 1012



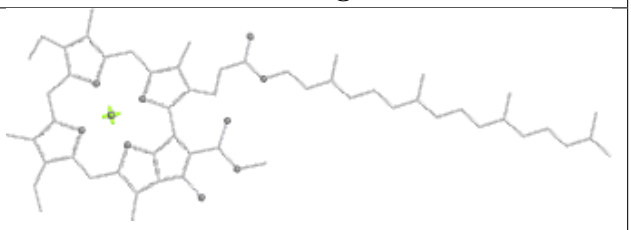
Bond lengths



Bond angles

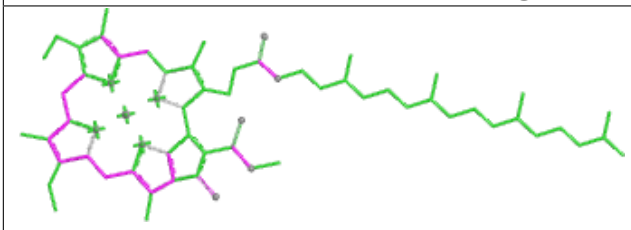


Torsions

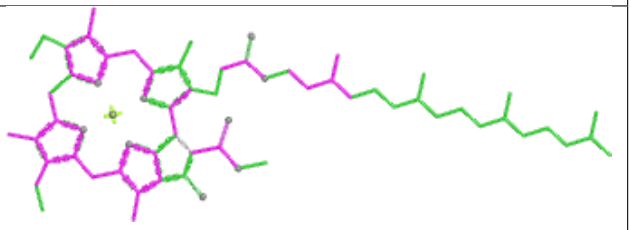


Rings

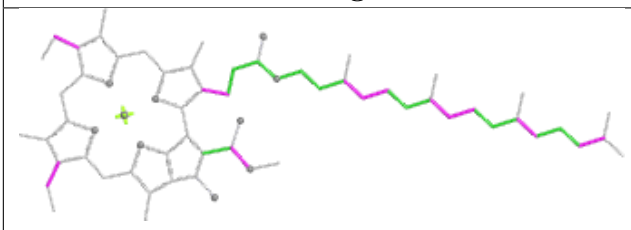
Ligand CLA B 1014



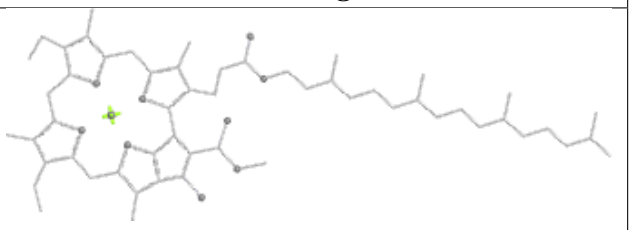
Bond lengths



Bond angles

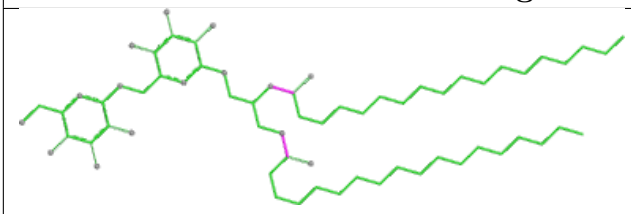


Torsions

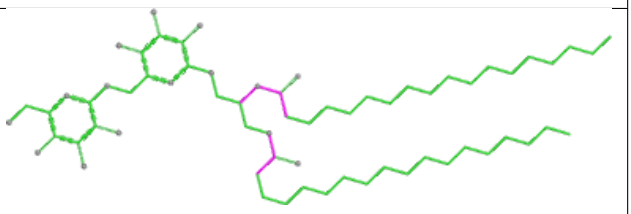


Rings

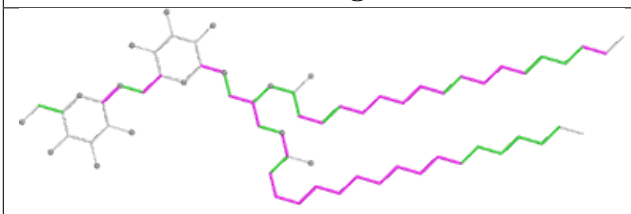
Ligand DGD c 6057



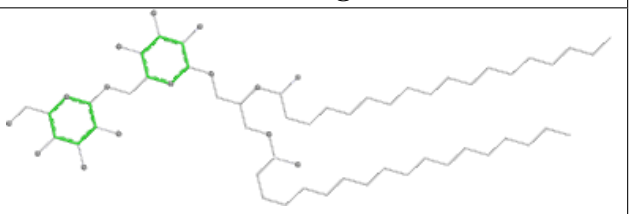
Bond lengths



Bond angles

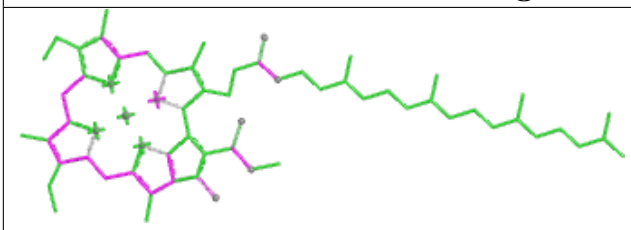


Torsions

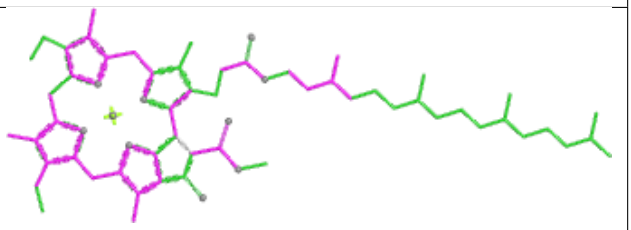


Rings

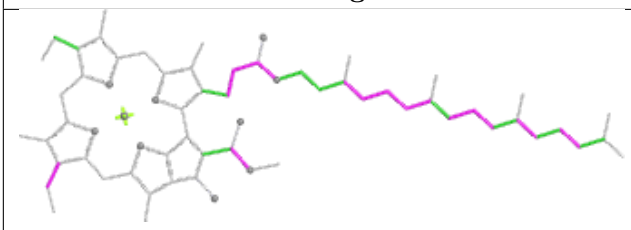
Ligand CLA C 1027



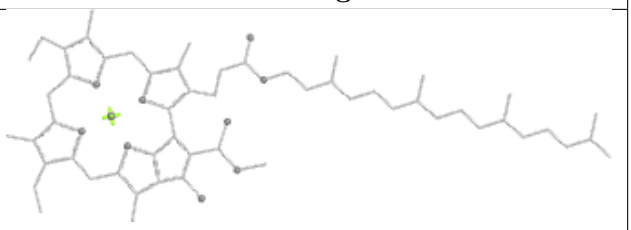
Bond lengths



Bond angles

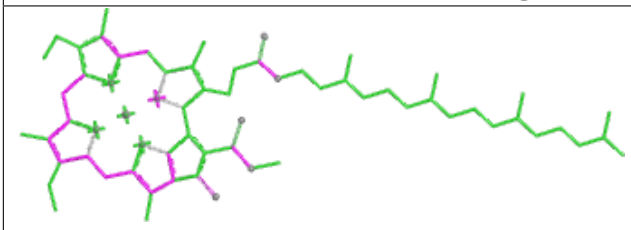


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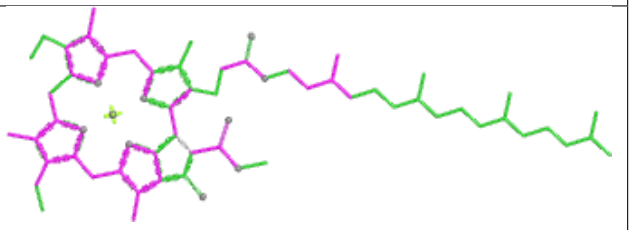


Rings

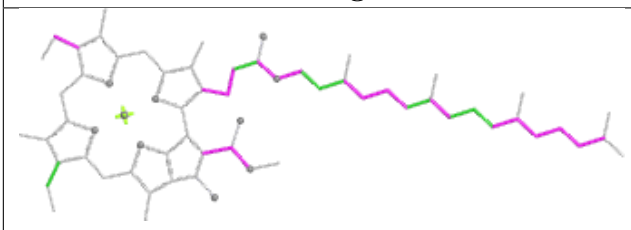
Ligand CLA C 1028



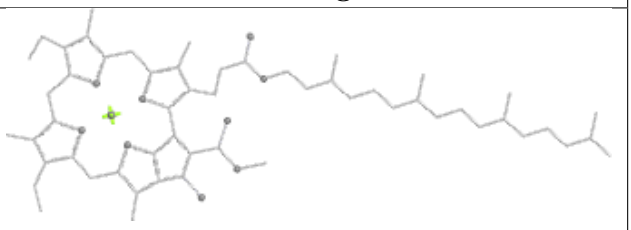
Bond lengths



Bond angles

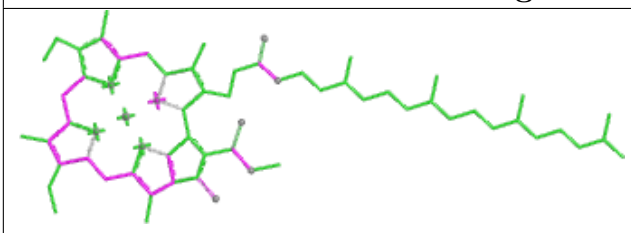


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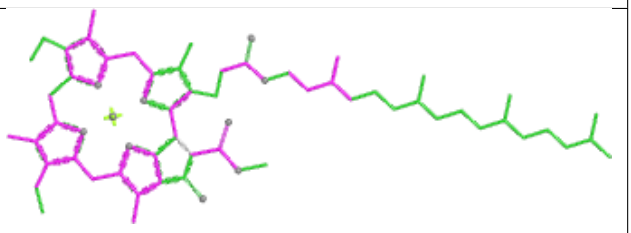


Rings

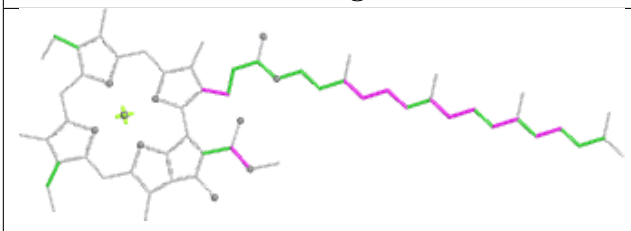
Ligand CLA C 1035



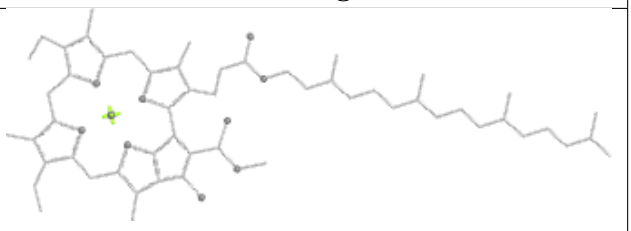
Bond lengths



Bond angles

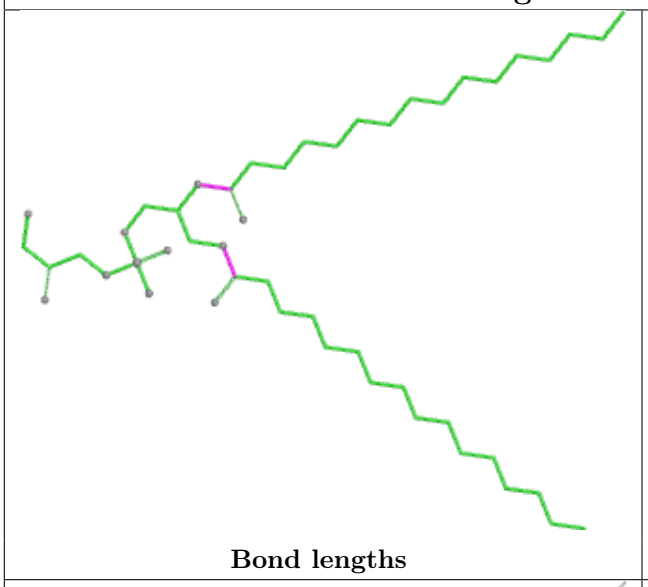


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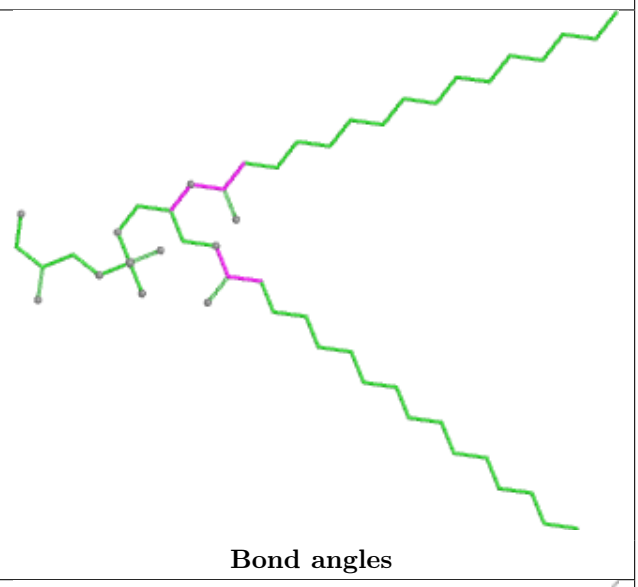


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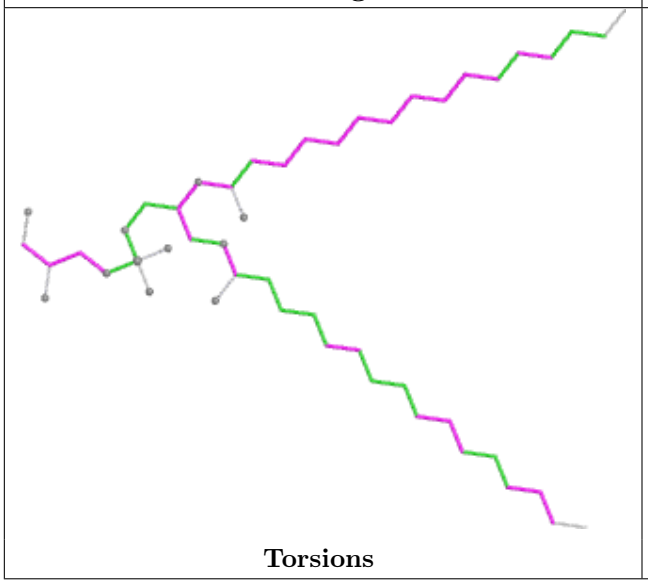
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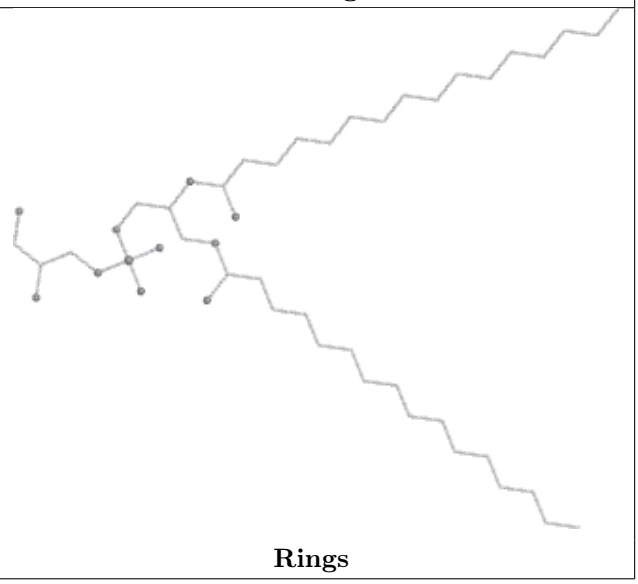
Bond lengths



Bond angles

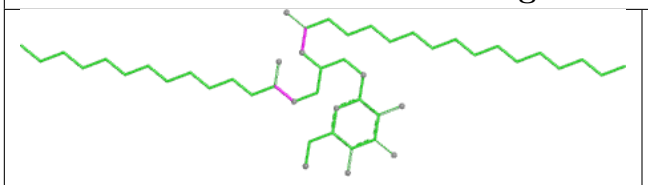


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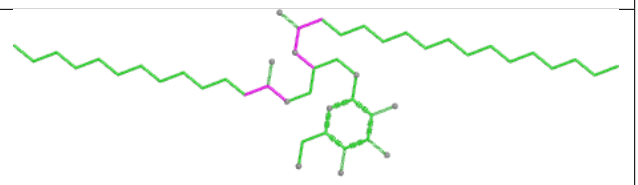


Rings

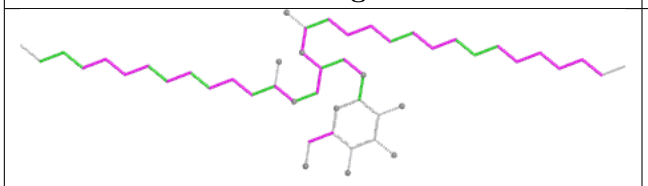
Ligand MGE l 6061



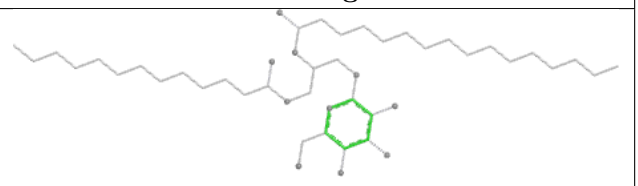
Bond lengths



Bond angles

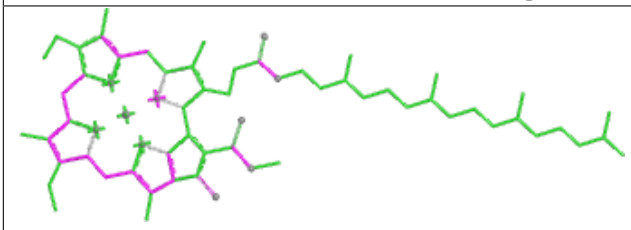


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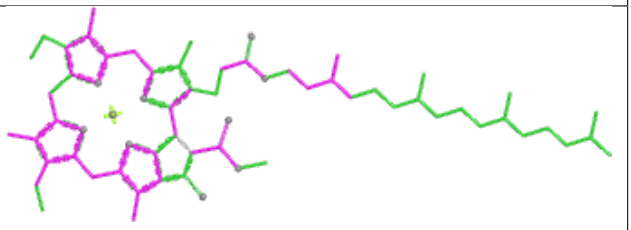


Rings

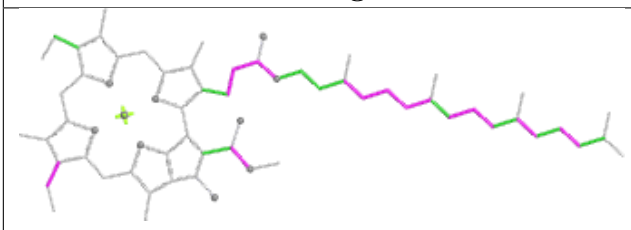
Ligand CLA c 6027



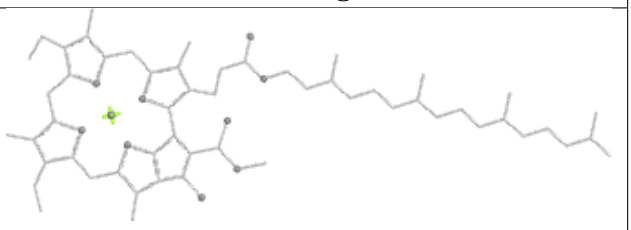
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Bond angles

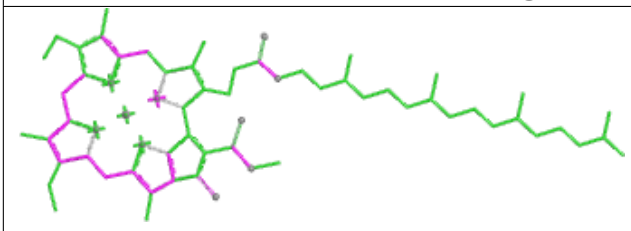


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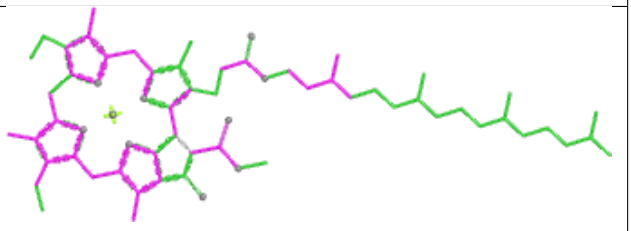


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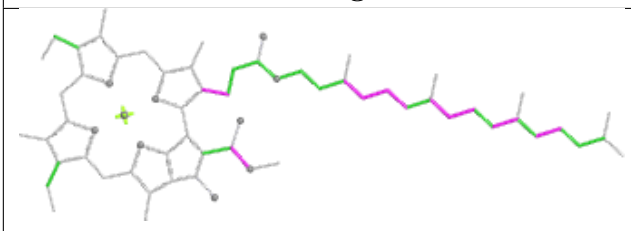
Ligand CLA c 6035



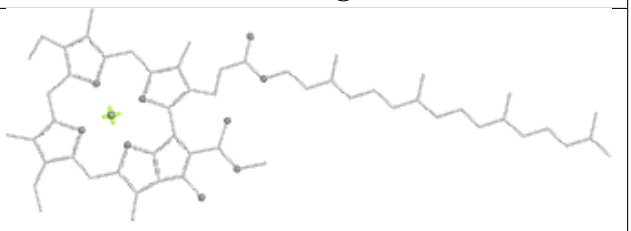
Bond lengths



Bond angles

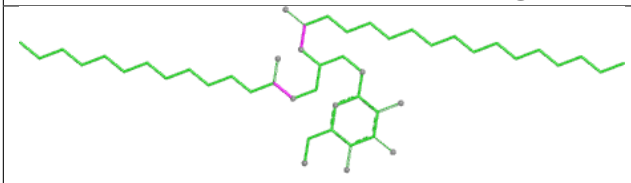


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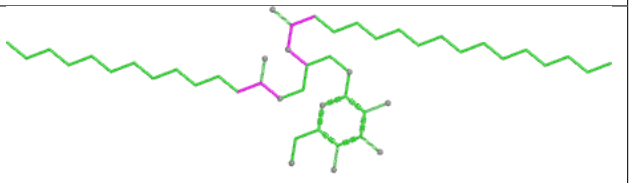


Rings

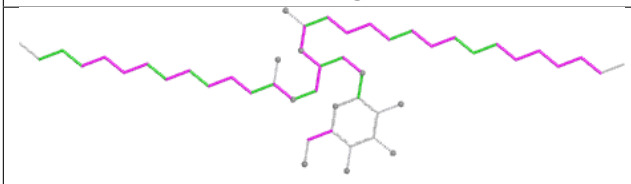
Ligand MGE L 1061



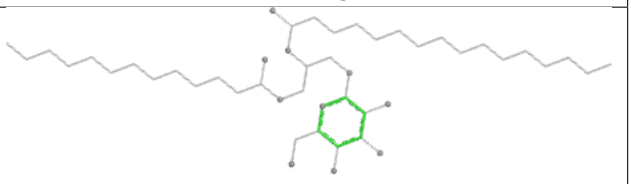
Bond lengths



Bond angles

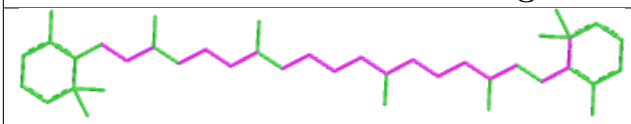


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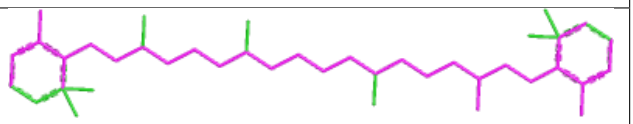


Rings

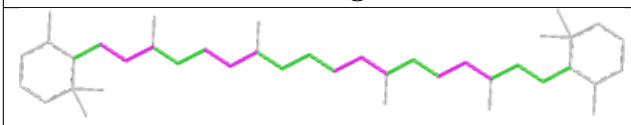
Ligand BCR a 6044



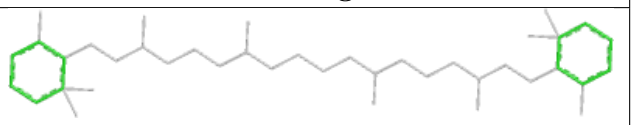
Bond lengths



Bond angles

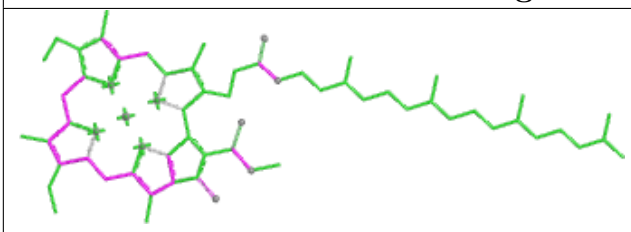


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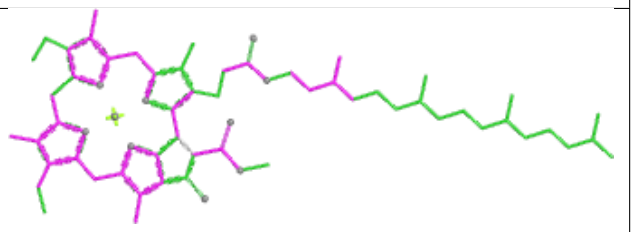


Rings

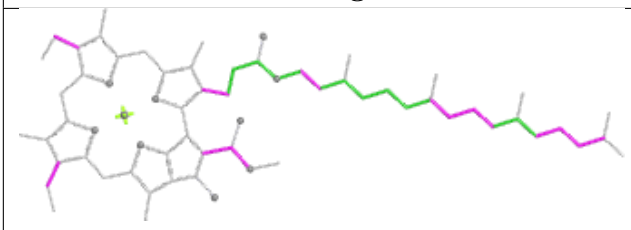
Ligand CLA B 1020



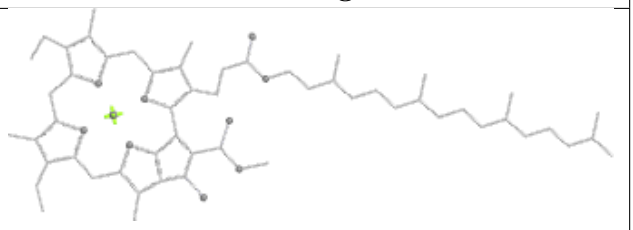
Bond lengths



Bond angles

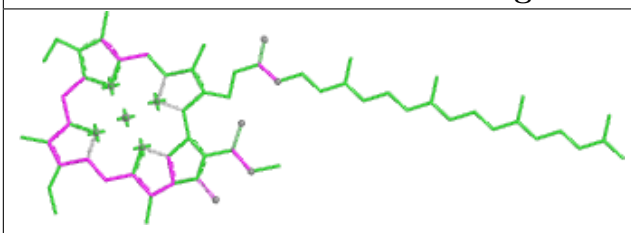


Torsions

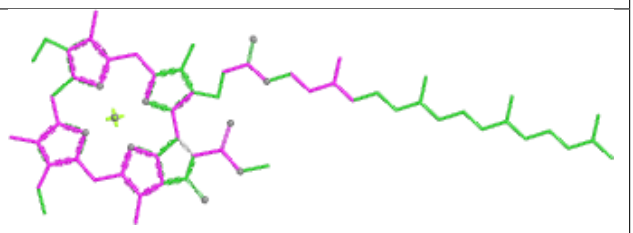


Rings

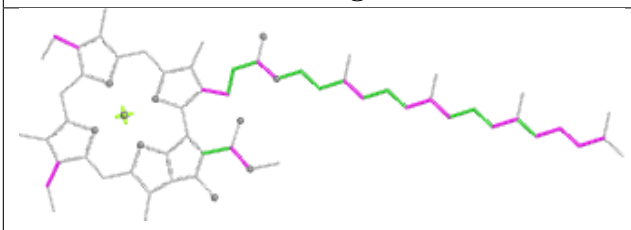
Ligand CLA D 1005



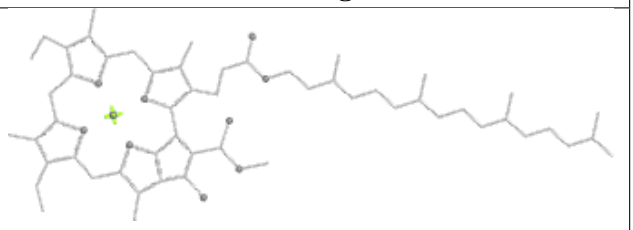
Bond lengths



Bond angles

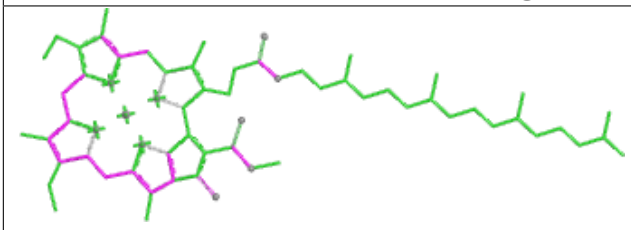


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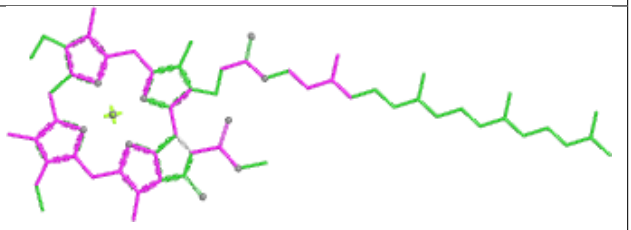


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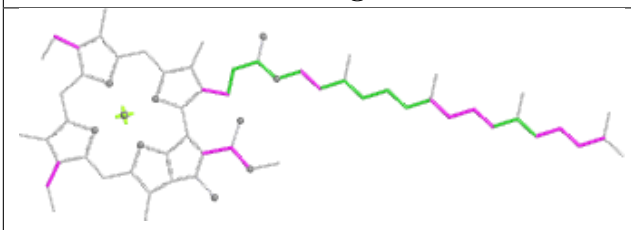
Ligand CLA b 6020



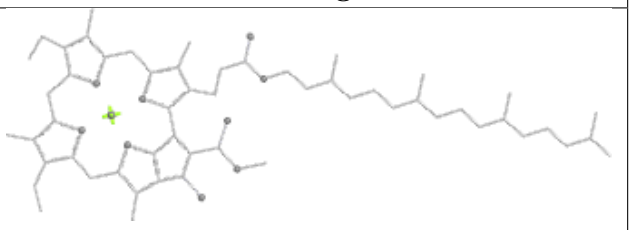
Bond lengths



Bond angles

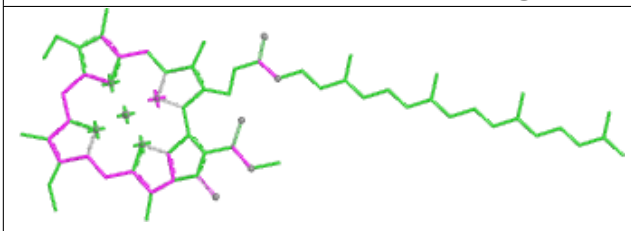


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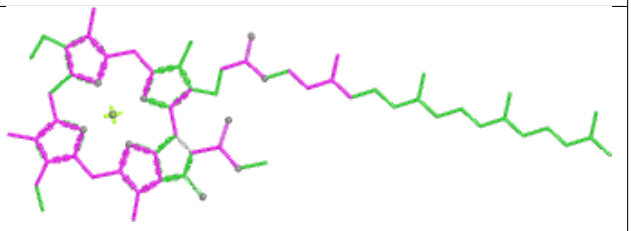


Rings

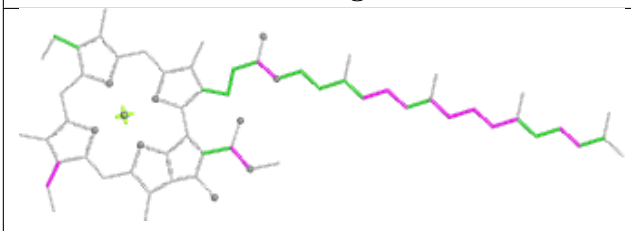
Ligand CLA C 1029



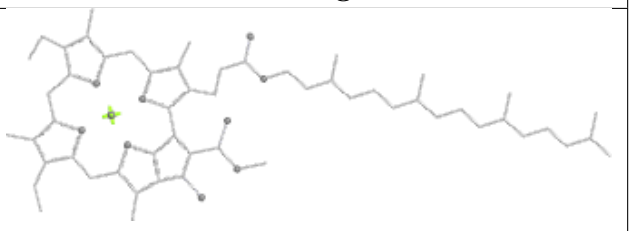
Bond lengths



Bond angles

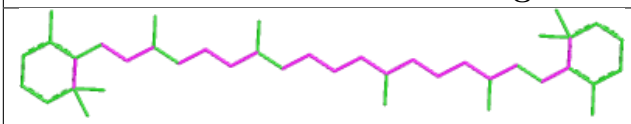


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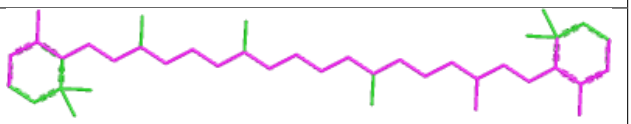


Rings

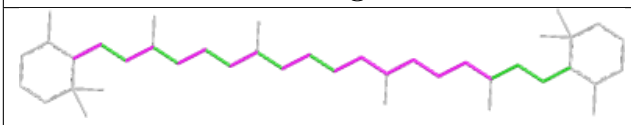
Ligand BCR B 1047



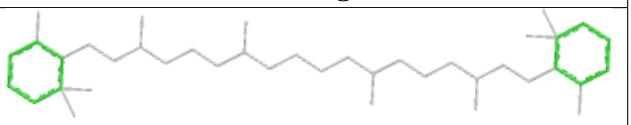
Bond lengths



Bond angles

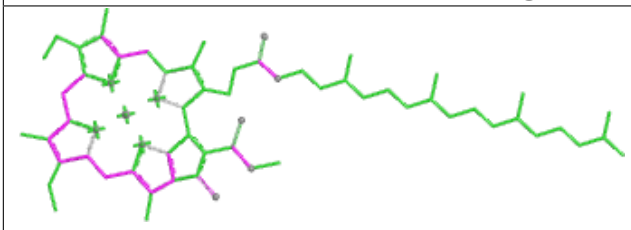


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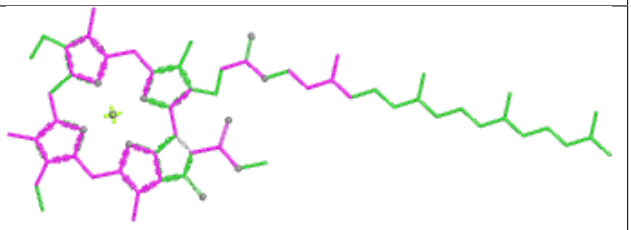


Rings

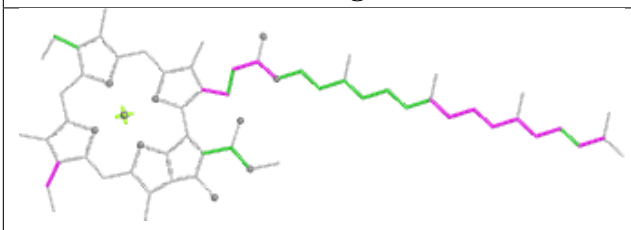
Ligand CLA c 6037



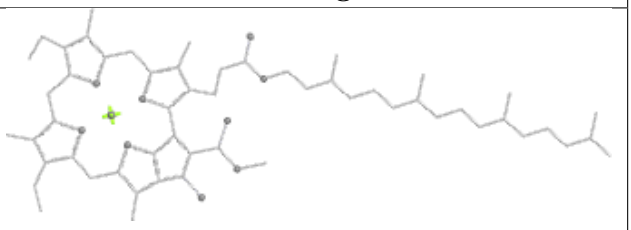
Bond lengths



Bond angles

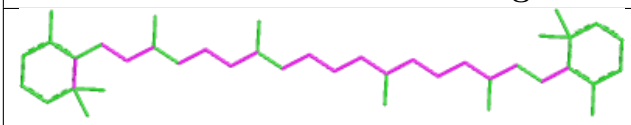


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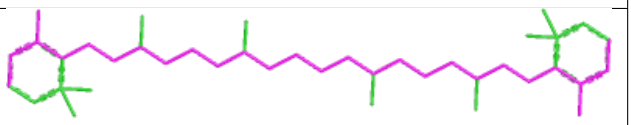


Rings

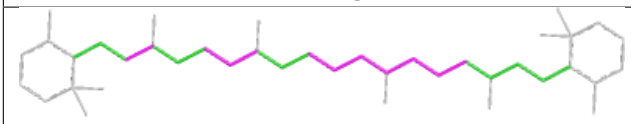
Ligand BCR H 1049



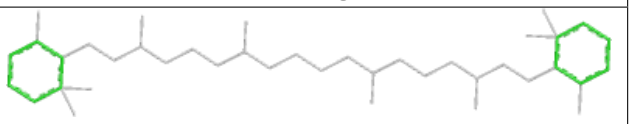
Bond lengths



Bond angles

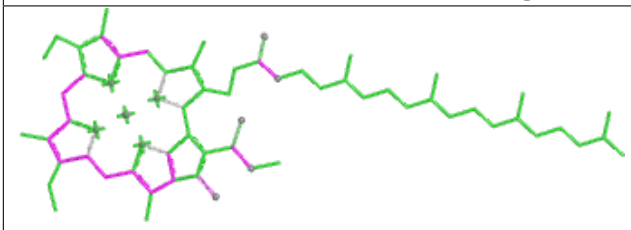


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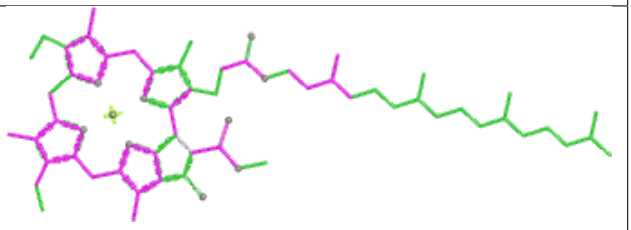


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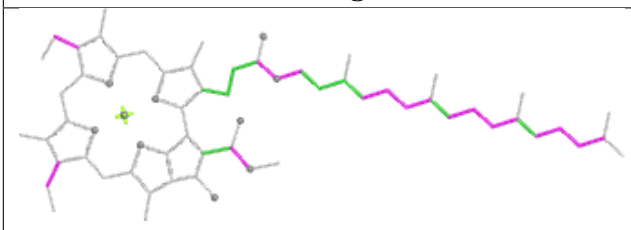
Ligand CLA b 6016



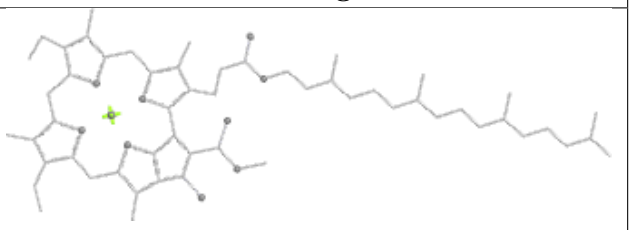
Bond lengths



Bond angles

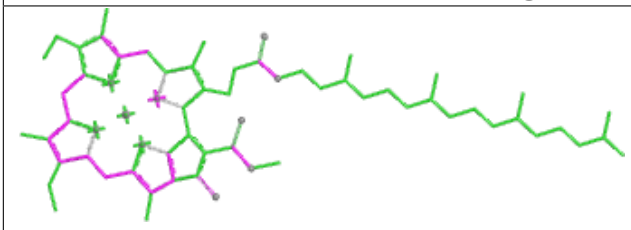


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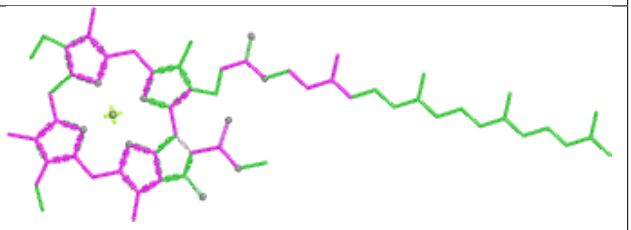


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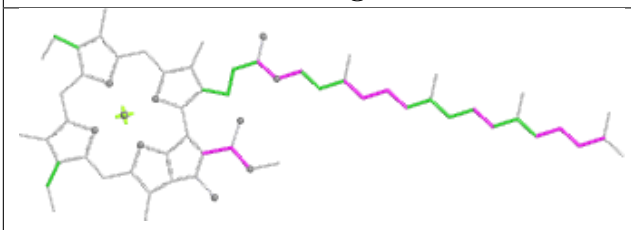
Ligand CLA c 6033



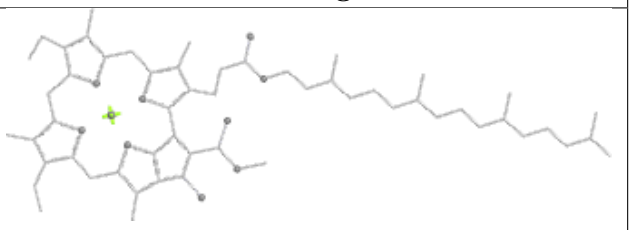
Bond lengths



Bond angles

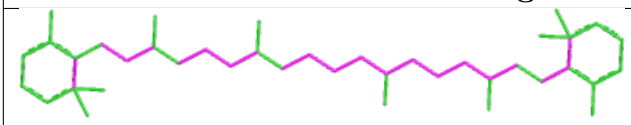


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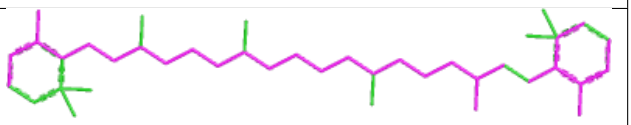


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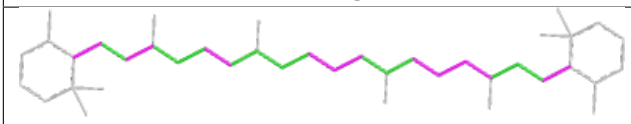
Ligand BCR k 6052



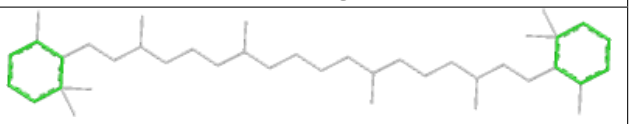
Bond lengths



Bond angles

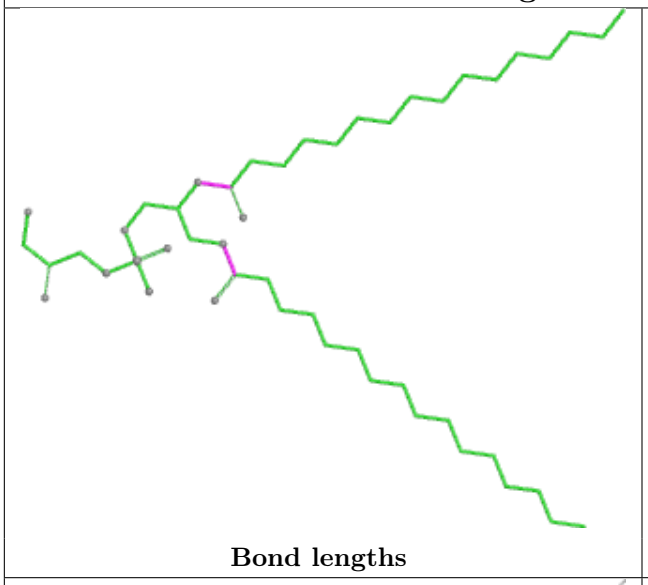


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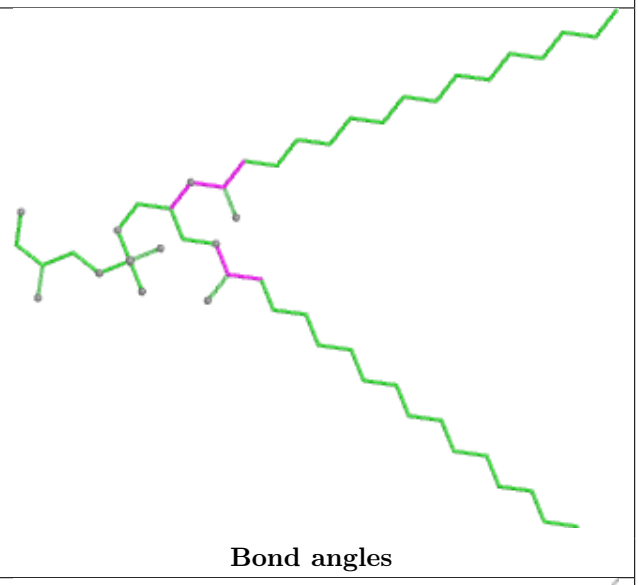


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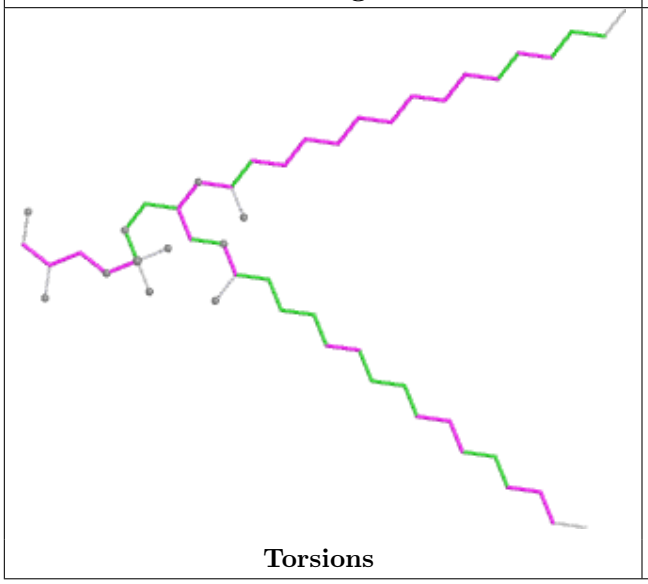
Ligand LHG a 6063



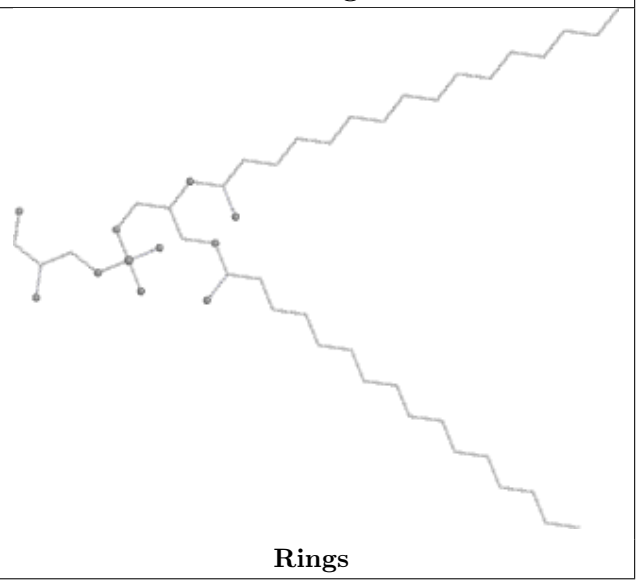
Bond lengths



Bond angles

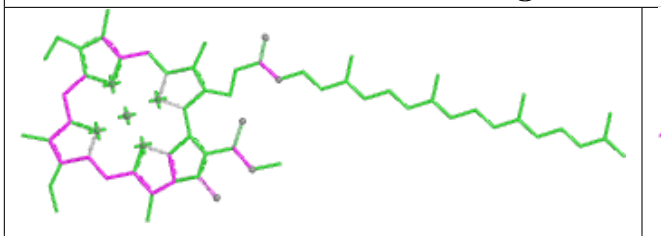


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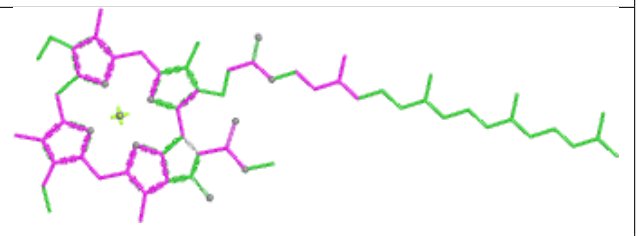


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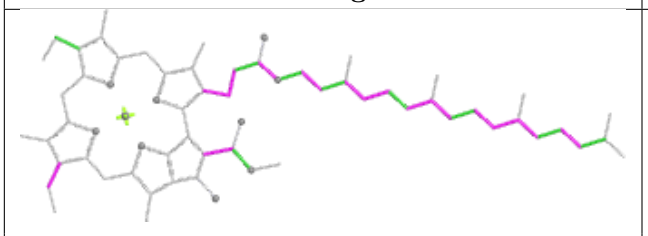
Ligand CLA C 1036



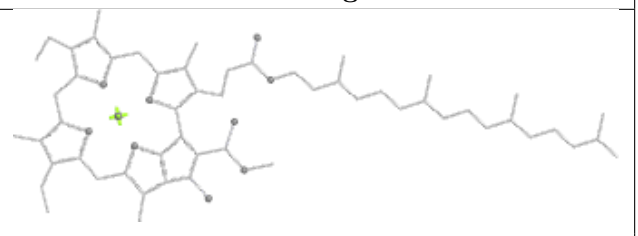
Bond lengths



Bond angles

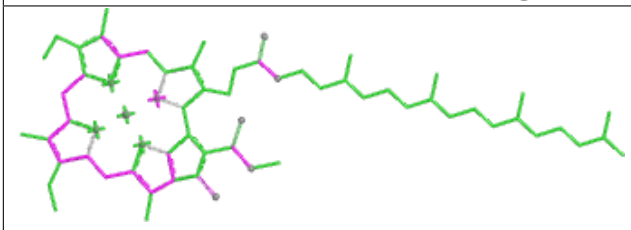


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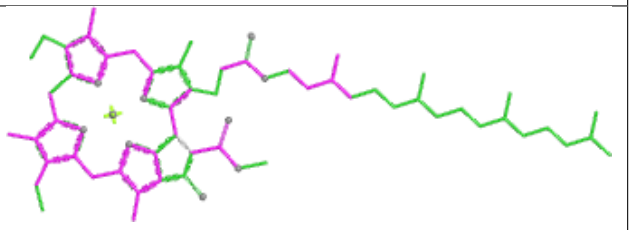


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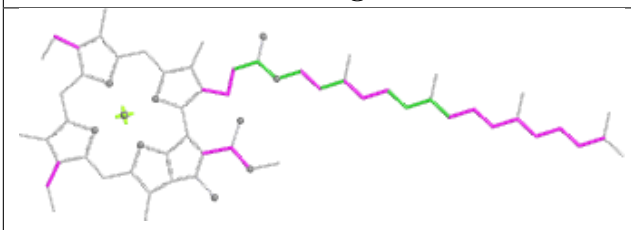
Ligand CLA B 1013



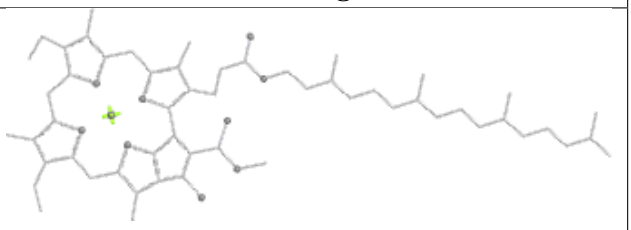
Bond lengths



Bond angles

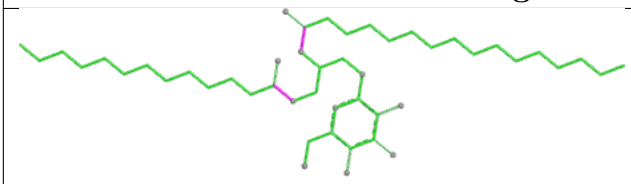


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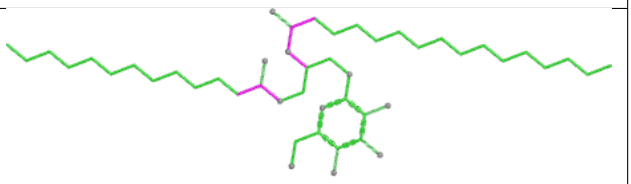


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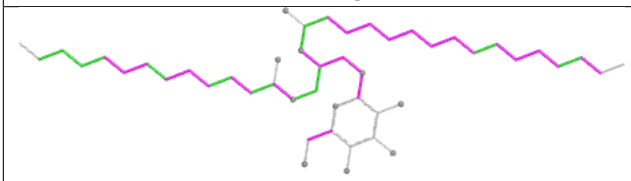
Ligand MGE d 6062



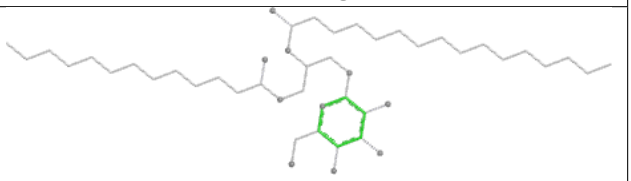
Bond lengths



Bond angles

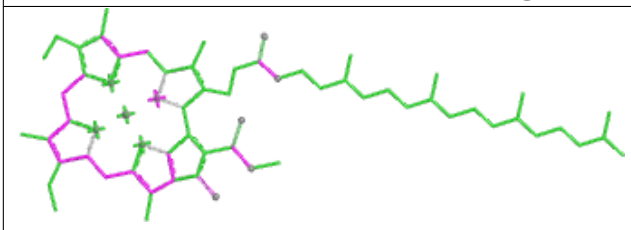


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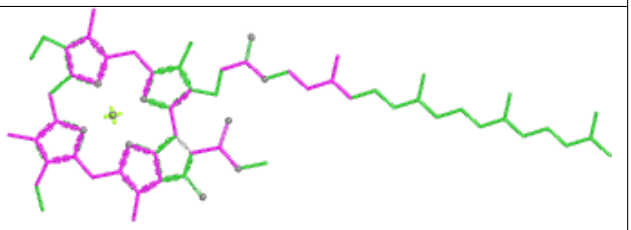


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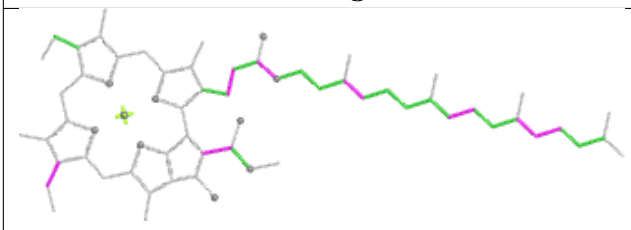
Ligand CLA d 6004



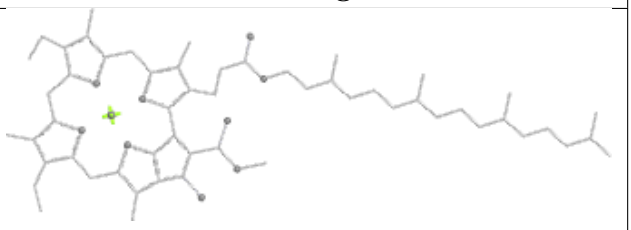
Bond lengths



Bond angles

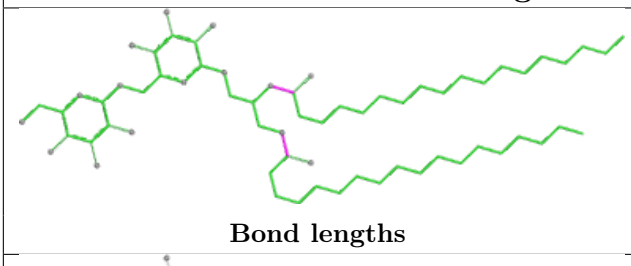


Torsions

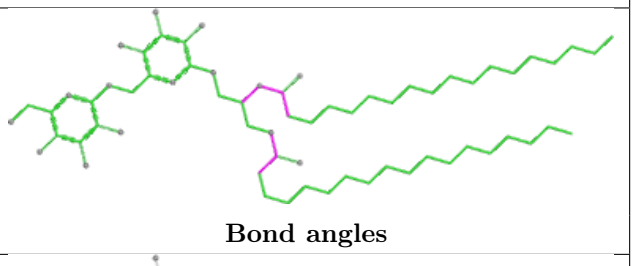


Rings

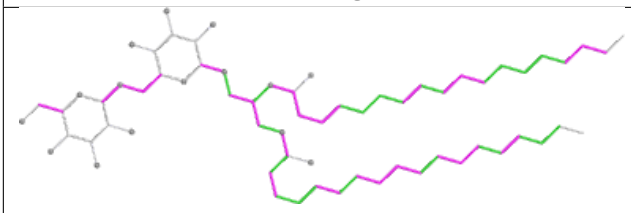
Ligand DGD b 6058



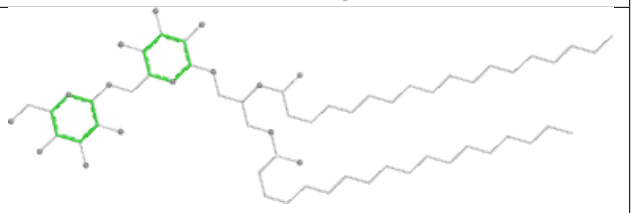
Bond lengths



Bond angles

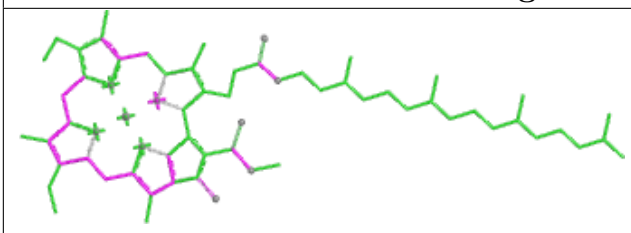


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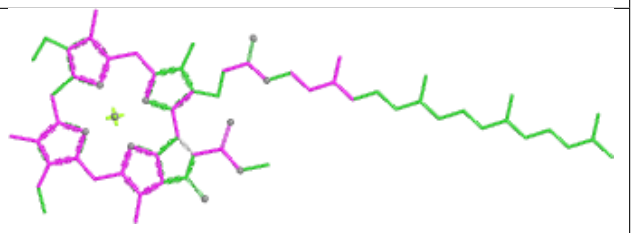


Rings

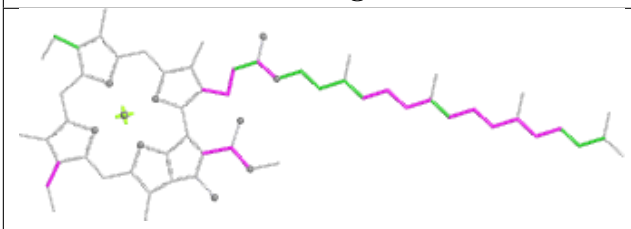
Ligand CLA b 6019



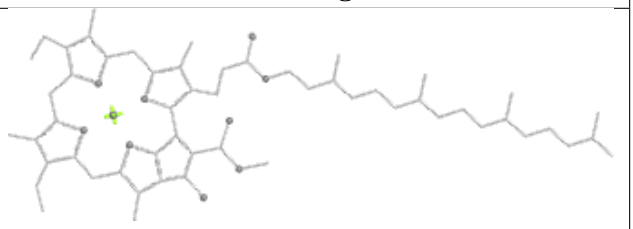
Bond lengths



Bond angles

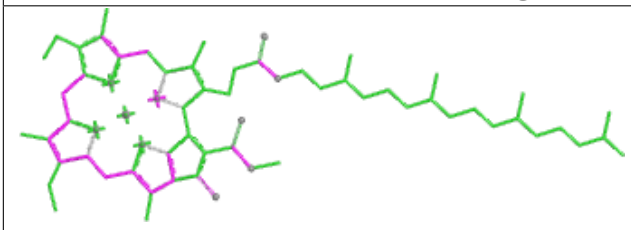


Torsions

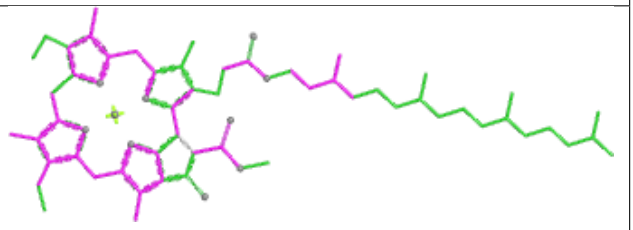


Rings

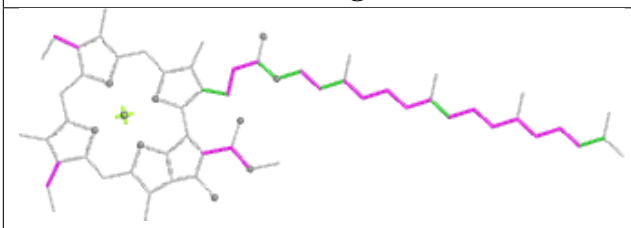
Ligand CLA K 1034



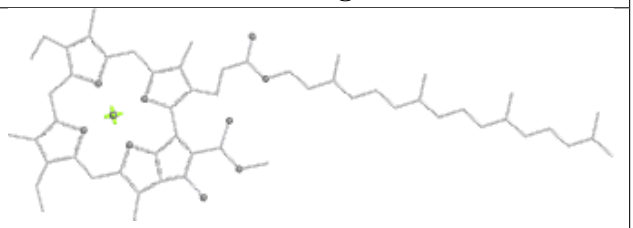
Bond lengths



Bond angles

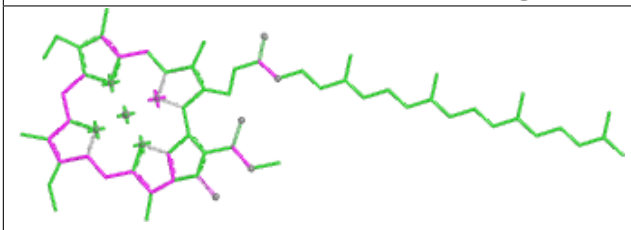


Torsions

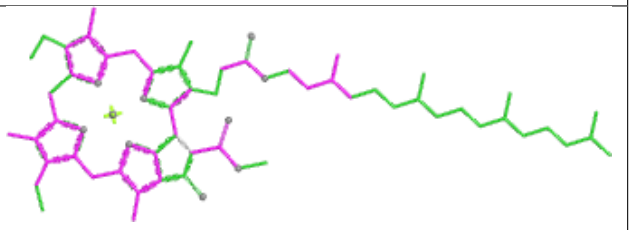


Rings

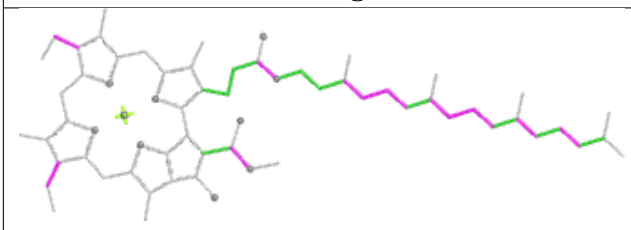
Ligand CLA B 1024



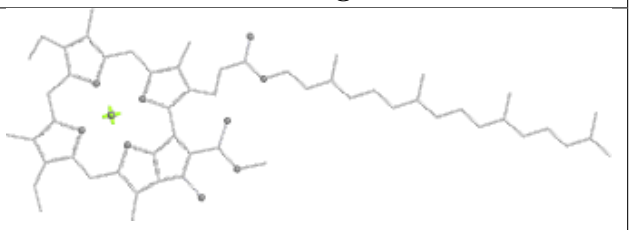
Bond lengths



Bond angles

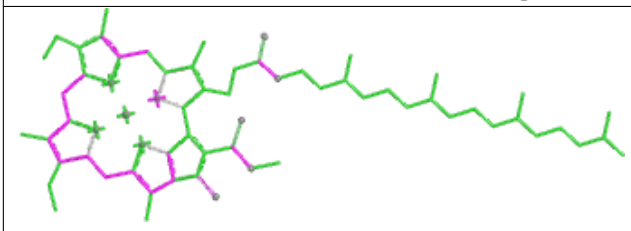


Torsions

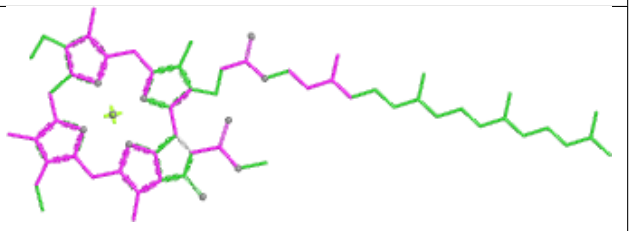


Rings

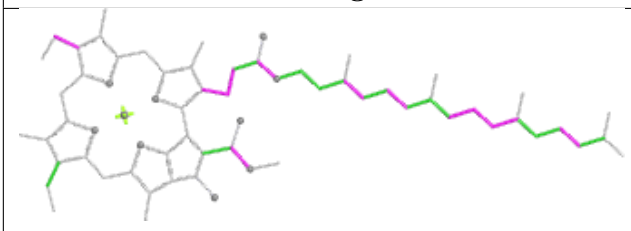
Ligand CLA B 1010



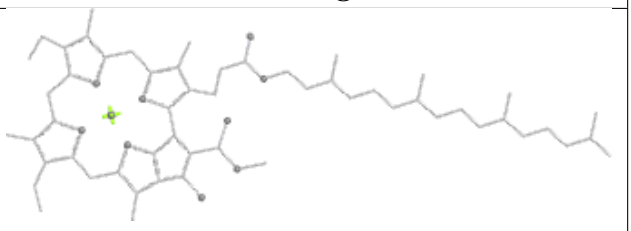
Bond lengths



Bond angles

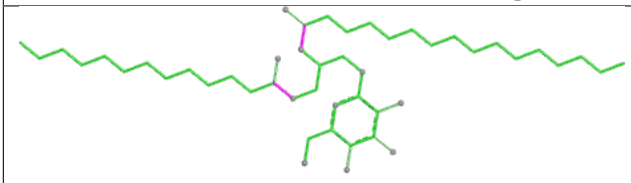


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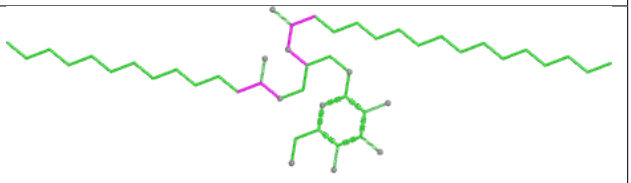


Rings

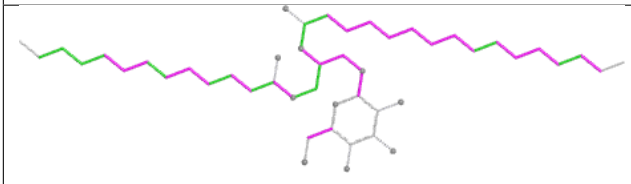
Ligand MGE D 1062



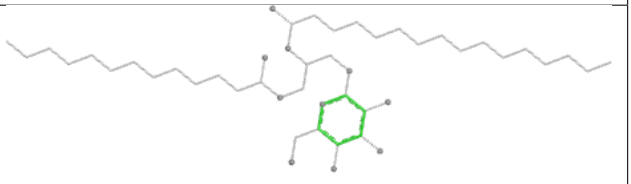
Bond lengths



Bond angles

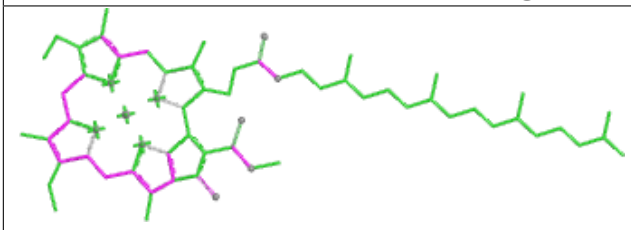


Torsions

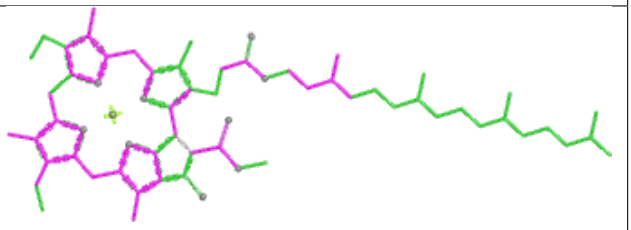


Rings

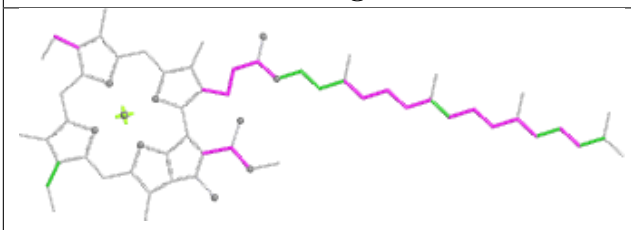
Ligand CLA h 6017



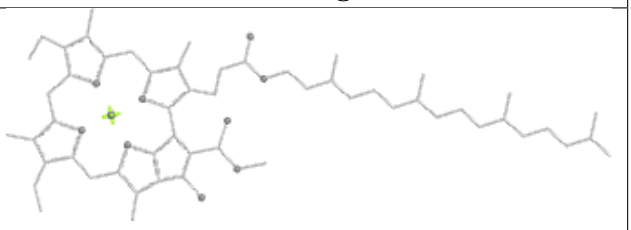
Bond lengths



Bond angles

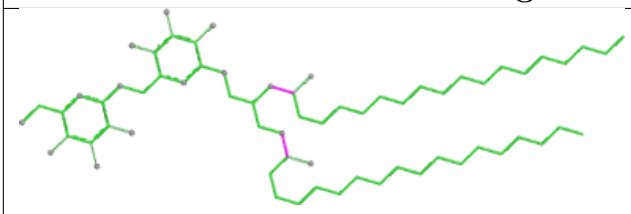


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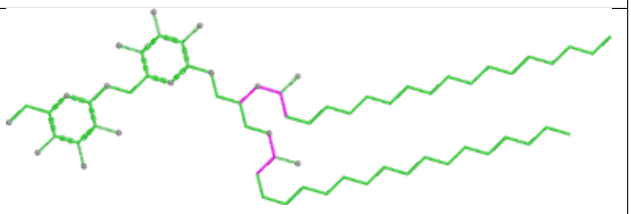


Rings

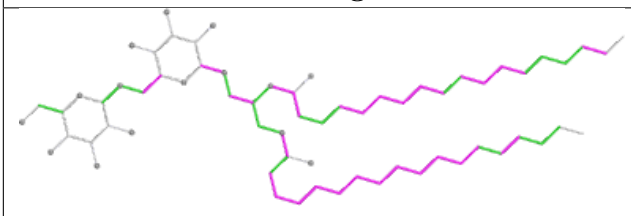
Ligand DGD c 6055



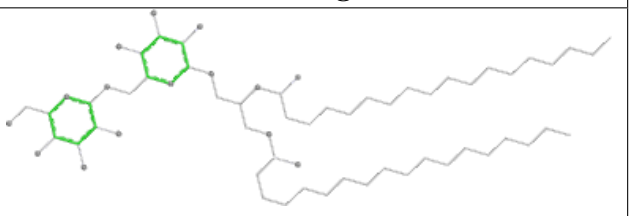
Bond lengths



Bond angles

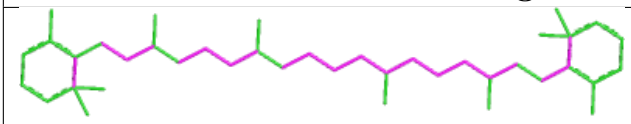


Torsions

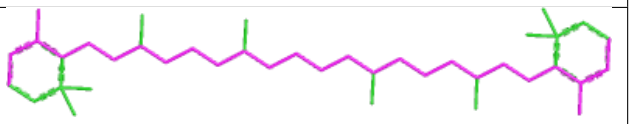


Rings

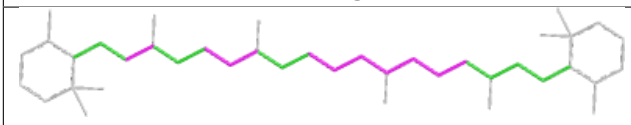
Ligand BCR h 6049



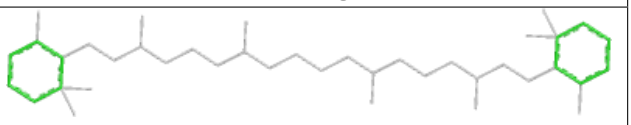
Bond lengths



Bond angles

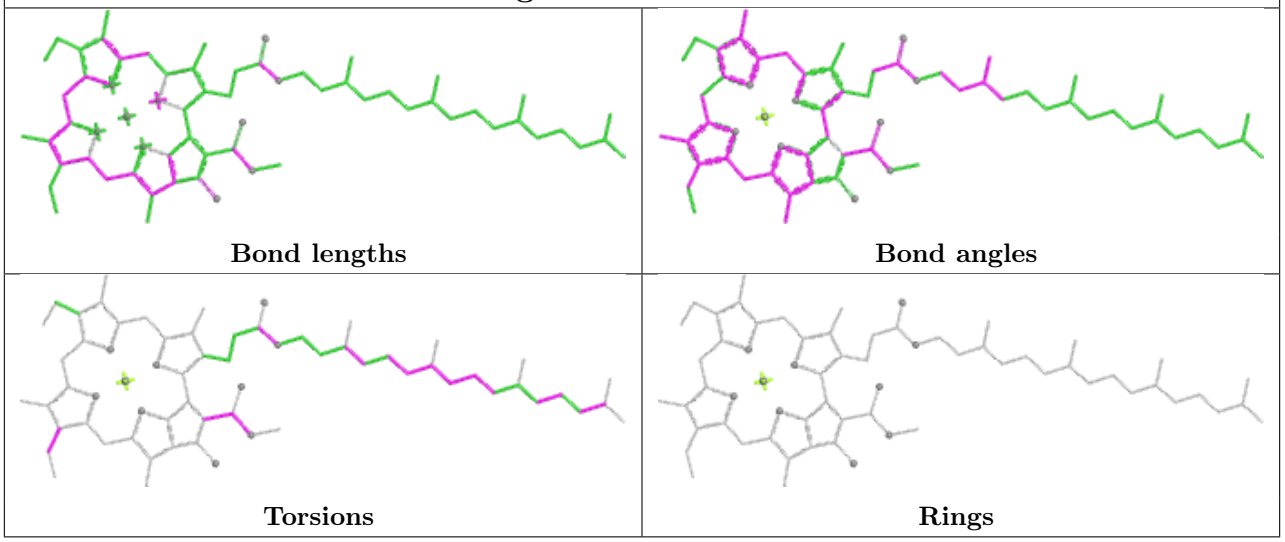


Torsions

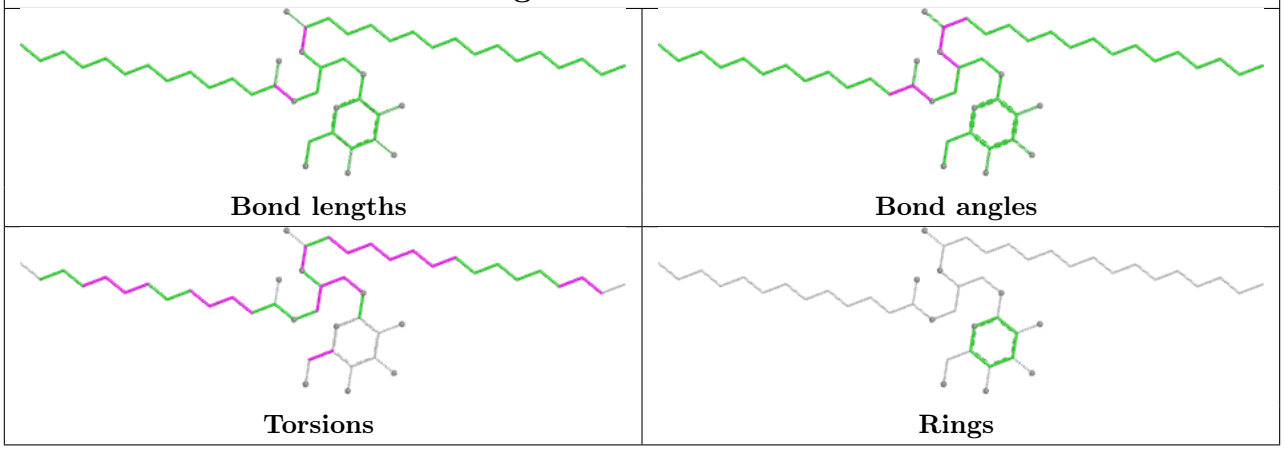


Rings

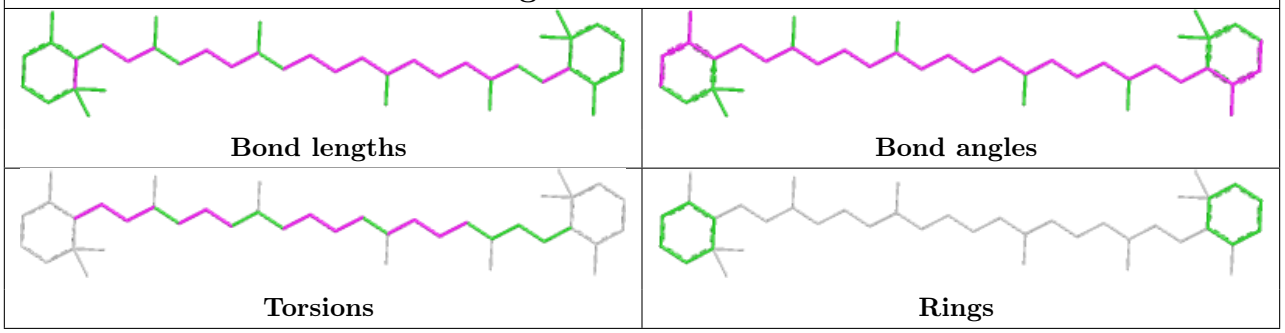
Ligand CLA C 1030



Ligand MGE d 6059



Ligand BCR c 6054



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%)	-0.18	3 (0%)	81	64	135, 156, 186, 200	0
1	a	335/344 (97%)	-0.30	2 (0%)	85	71	135, 156, 186, 200	0
2	B	488/488 (100%)	-0.28	4 (0%)	82	65	133, 156, 180, 191	0
2	b	488/488 (100%)	-0.29	2 (0%)	88	75	133, 156, 180, 191	0
3	C	447/447 (100%)	-0.24	5 (1%)	78	60	138, 165, 181, 193	0
3	c	447/447 (100%)	-0.27	0	100	100	138, 165, 181, 193	0
4	D	340/340 (100%)	-0.24	1 (0%)	90	78	134, 156, 179, 192	0
4	d	340/340 (100%)	-0.28	1 (0%)	90	78	134, 156, 179, 192	0
5	E	82/83 (98%)	-0.35	0	100	100	153, 172, 191, 198	0
5	e	82/83 (98%)	-0.41	0	100	100	153, 172, 191, 198	0
6	F	35/44 (79%)	-0.47	0	100	100	153, 167, 187, 191	0
6	f	35/44 (79%)	-0.32	0	100	100	153, 167, 187, 191	0
7	H	64/64 (100%)	-0.36	1 (1%)	70	52	154, 163, 175, 185	0
7	h	64/64 (100%)	-0.38	0	100	100	154, 163, 175, 185	0
8	I	35/35 (100%)	-0.38	0	100	100	152, 169, 196, 201	0
8	i	35/35 (100%)	-0.18	0	100	100	152, 169, 196, 201	0
9	J	34/40 (85%)	-0.57	0	100	100	155, 162, 184, 192	0
9	j	34/40 (85%)	-0.45	0	100	100	155, 162, 184, 192	0
10	K	36/36 (100%)	-0.19	1 (2%)	55	40	144, 168, 182, 185	0
10	k	36/36 (100%)	-0.16	0	100	100	156, 170, 182, 192	0
11	L	37/37 (100%)	-0.43	0	100	100	138, 160, 191, 197	0
11	l	37/37 (100%)	-0.38	0	100	100	138, 160, 191, 197	0
12	M	36/36 (100%)	-0.23	0	100	100	131, 146, 188, 194	0
12	m	36/36 (100%)	-0.29	1 (2%)	55	40	131, 146, 188, 194	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	O	242/242 (100%)	-0.38	0 100 100	139, 160, 181, 187	0
13	o	242/242 (100%)	-0.38	0 100 100	139, 160, 181, 187	0
14	T	30/30 (100%)	-0.58	0 100 100	124, 143, 186, 191	0
14	t	30/30 (100%)	-0.39	0 100 100	131, 143, 186, 191	0
15	U	98/98 (100%)	-0.46	0 100 100	139, 155, 165, 173	0
15	u	98/98 (100%)	-0.52	0 100 100	139, 155, 165, 173	0
16	V	137/137 (100%)	-0.17	3 (2%) 62 46	144, 162, 173, 178	0
16	v	137/137 (100%)	-0.33	0 100 100	144, 162, 173, 178	0
17	X	34/34 (100%)	-0.25	1 (2%) 53 39	173, 181, 198, 201	0
17	x	34/34 (100%)	-0.39	0 100 100	173, 181, 198, 201	0
18	Y	28/28 (100%)	-0.18	0 100 100	187, 199, 208, 210	0
18	y	28/28 (100%)	-0.27	0 100 100	187, 199, 208, 210	0
19	N	0/23	-	-	-	-
19	n	0/23	-	-	-	-
20	Z	62/62 (100%)	-0.45	0 100 100	159, 173, 188, 196	0
20	z	62/62 (100%)	-0.33	1 (1%) 70 52	159, 173, 188, 196	0
All	All	5200/5296 (98%)	-0.30	26 (0%) 87 73	124, 161, 185, 210	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	279	ARG	6.3
1	a	5279	ARG	6.1
3	C	44	ASN	3.9
2	B	166	MET	3.2
3	C	45	LEU	3.1
16	V	63	CYS	2.8
16	V	78	LEU	2.8
1	a	5205	VAL	2.7
10	K	37	PHE	2.7
2	B	190	PHE	2.5
1	A	209	ALA	2.5
1	A	250	ALA	2.5
16	V	139	VAL	2.5
2	b	5068	ARG	2.5
17	X	44	ASP	2.4
2	b	5031	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
3	C	86	LEU	2.3
12	m	5008	PHE	2.2
7	H	62	TRP	2.2
3	C	348	GLU	2.2
4	d	5136	VAL	2.2
3	C	234	VAL	2.1
2	B	68	ARG	2.1
4	D	291	LEU	2.1
20	z	5042	LEU	2.0
2	B	379	ALA	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	IOD	D	1068	1/1	0.20	0.60	198,198,198,198	0
27	IOD	B	1067	1/1	0.47	0.43	198,198,198,198	0
22	CLA	K	1034	65/65	0.56	0.18	138,189,216,216	0
26	LHG	a	6063	49/49	0.57	0.19	199,213,216,216	0
22	CLA	B	1009	65/65	0.57	0.17	143,192,213,213	0
26	LHG	A	1063	49/49	0.57	0.20	199,213,216,216	0
22	CLA	k	6034	65/65	0.63	0.18	138,189,216,216	0
25	BCR	T	6048	40/40	0.63	0.16	179,184,203,204	0
27	IOD	b	6067	1/1	0.67	0.42	199,199,199,199	0
25	BCR	A	1044	40/40	0.70	0.18	155,177,185,185	0
25	BCR	B	1048	40/40	0.70	0.16	179,184,203,204	0
25	BCR	b	6047	40/40	0.71	0.13	155,171,200,202	0
22	CLA	b	6009	65/65	0.71	0.14	143,192,213,213	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
22	CLA	c	6037	65/65	0.71	0.13	201,211,214,216	0
22	CLA	c	6027	65/65	0.72	0.17	192,198,204,216	0
29	DGD	C	1056	66/66	0.72	0.14	190,201,216,216	0
27	IOD	T	1066	1/1	0.73	0.23	199,199,199,199	0
22	CLA	C	1027	65/65	0.73	0.19	192,198,204,216	0
25	BCR	c	6054	40/40	0.73	0.19	197,201,216,216	0
25	BCR	k	6052	40/40	0.75	0.27	191,195,202,203	0
27	IOD	d	6068	1/1	0.75	0.39	199,199,199,199	0
22	CLA	d	6008	65/65	0.75	0.16	184,188,216,216	0
25	BCR	Z	1053	40/40	0.76	0.15	190,214,216,216	0
22	CLA	c	6026	65/65	0.77	0.16	138,171,178,183	0
25	BCR	z	6053	40/40	0.77	0.13	190,214,216,216	0
25	BCR	b	6045	40/40	0.77	0.19	163,196,216,216	0
25	BCR	C	1054	40/40	0.77	0.22	197,201,216,216	0
28	MGE	d	6062	48/48	0.77	0.19	187,202,208,210	0
25	BCR	B	1047	40/40	0.77	0.13	155,171,200,202	0
29	DGD	c	6056	66/66	0.77	0.12	190,201,216,216	0
22	CLA	b	6014	65/65	0.78	0.16	178,187,197,216	0
28	MGE	B	1060	48/48	0.79	0.20	186,199,213,216	0
28	MGE	D	1059	48/48	0.79	0.16	179,190,215,216	0
25	BCR	T	6046	40/40	0.79	0.15	179,185,188,189	0
22	CLA	C	1037	65/65	0.79	0.13	201,211,214,216	0
25	BCR	d	6050	40/40	0.79	0.17	184,193,198,199	0
22	CLA	B	1014	65/65	0.80	0.14	178,187,197,216	0
28	MGE	d	6059	48/48	0.80	0.15	179,190,215,216	0
25	BCR	h	6049	40/40	0.80	0.17	177,182,188,189	0
25	BCR	D	1050	40/40	0.80	0.18	184,193,198,199	0
25	BCR	K	1051	40/40	0.80	0.23	192,202,210,210	0
25	BCR	a	6044	40/40	0.81	0.15	155,177,185,185	0
24	PQ9	A	1043	45/45	0.81	0.26	171,172,193,197	30
22	CLA	b	6021	65/65	0.81	0.15	154,164,172,176	0
28	MGE	b	6060	48/48	0.82	0.19	186,199,213,216	0
22	CLA	d	6005	65/65	0.82	0.17	135,162,169,173	0
24	PQ9	d	6042	45/45	0.82	0.24	171,173,185,187	0
28	MGE	l	6061	48/48	0.82	0.17	177,191,195,199	0
22	CLA	c	6035	65/65	0.82	0.19	189,202,210,216	0
29	DGD	C	1057	66/66	0.82	0.15	177,190,206,207	0
22	CLA	C	1030	65/65	0.82	0.13	185,197,216,216	0
29	DGD	c	6057	66/66	0.82	0.15	177,190,206,207	0
22	CLA	B	1021	65/65	0.83	0.12	154,164,172,176	0
23	PHO	D	1039	64/64	0.83	0.16	184,187,196,198	0
22	CLA	D	1005	65/65	0.83	0.15	135,162,169,173	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
28	MGE	L	1061	48/48	0.83	0.19	177,191,195,199	0
22	CLA	b	6015	65/65	0.84	0.13	177,182,185,216	0
25	BCR	H	1049	40/40	0.84	0.17	177,182,188,189	0
29	DGD	c	6055	66/66	0.84	0.17	184,192,202,203	0
28	MGE	D	1062	48/48	0.84	0.19	187,202,208,210	0
22	CLA	C	1036	65/65	0.84	0.14	186,190,203,216	0
25	BCR	B	1045	40/40	0.85	0.15	163,196,216,216	0
22	CLA	C	1026	65/65	0.85	0.16	138,171,178,183	0
25	BCR	k	6051	40/40	0.85	0.18	192,202,210,210	0
22	CLA	b	6024	65/65	0.85	0.13	165,193,197,198	0
22	CLA	c	6025	65/65	0.85	0.11	156,187,191,194	0
22	CLA	c	6036	65/65	0.85	0.12	186,190,203,216	0
24	PQ9	a	6043	45/45	0.86	0.23	171,172,193,197	30
22	CLA	C	1028	65/65	0.86	0.15	178,182,201,202	0
22	CLA	c	6032	65/65	0.86	0.14	186,189,200,216	0
22	CLA	B	1024	65/65	0.87	0.12	165,193,197,198	0
22	CLA	b	6019	65/65	0.87	0.12	167,172,175,180	0
29	DGD	C	1055	66/66	0.87	0.19	184,192,202,203	0
22	CLA	a	6007	65/65	0.87	0.17	129,174,204,205	0
22	CLA	C	1025	65/65	0.88	0.12	156,187,191,194	0
25	BCR	t	1046	40/40	0.88	0.12	179,185,188,189	0
29	DGD	B	1058	66/66	0.88	0.20	175,188,196,203	0
22	CLA	C	1032	65/65	0.88	0.16	184,188,192,216	0
22	CLA	b	6012	65/65	0.88	0.14	160,167,172,174	0
23	PHO	a	6038	64/64	0.88	0.14	166,176,178,181	0
29	DGD	b	6058	66/66	0.88	0.20	175,188,196,203	0
23	PHO	d	6039	64/64	0.88	0.12	184,187,196,198	0
22	CLA	C	1029	65/65	0.88	0.14	177,187,190,201	0
25	BCR	C	1052	40/40	0.88	0.29	191,195,202,203	0
22	CLA	a	6003	65/65	0.89	0.17	160,169,175,212	0
22	CLA	c	6031	65/65	0.89	0.16	181,185,202,216	0
22	CLA	b	6022	65/65	0.89	0.13	138,180,198,200	0
22	CLA	D	1008	65/65	0.89	0.13	184,188,216,216	0
22	CLA	B	1011	65/65	0.89	0.12	168,178,184,188	0
22	CLA	b	6011	65/65	0.89	0.15	168,178,184,188	0
31	HEM	f	6040	43/43	0.89	0.20	186,215,216,216	0
22	CLA	a	6006	65/65	0.90	0.11	166,181,211,213	0
24	PQ9	D	1042	45/45	0.90	0.19	171,173,185,187	0
22	CLA	c	6028	65/65	0.90	0.13	178,182,201,202	0
22	CLA	c	6029	65/65	0.90	0.13	177,187,190,201	0
22	CLA	h	6017	65/65	0.90	0.14	169,197,201,208	0
22	CLA	B	1019	65/65	0.90	0.13	167,172,175,180	0

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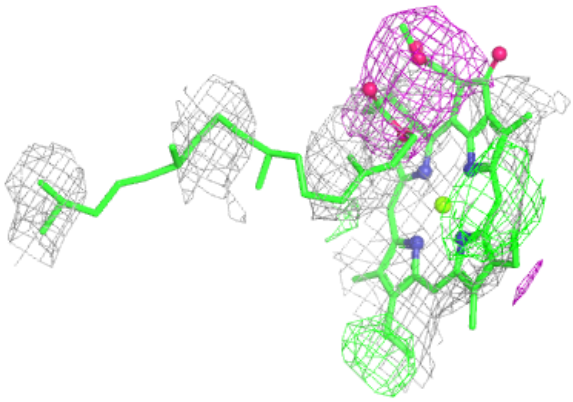
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
23	PHO	A	1038	64/64	0.90	0.13	166,176,178,181	0
22	CLA	A	1006	65/65	0.90	0.14	166,181,211,213	0
22	CLA	b	6016	65/65	0.90	0.12	130,172,175,180	0
22	CLA	C	1035	65/65	0.90	0.18	189,202,210,216	0
22	CLA	B	1023	65/65	0.91	0.11	174,179,181,191	0
22	CLA	c	6030	65/65	0.91	0.10	185,197,216,216	0
22	CLA	B	1012	65/65	0.91	0.11	160,167,172,174	0
22	CLA	A	1007	65/65	0.91	0.14	129,174,204,205	0
22	CLA	B	1022	65/65	0.91	0.11	138,180,198,200	0
22	CLA	A	1003	65/65	0.92	0.14	160,169,175,212	0
22	CLA	C	1031	65/65	0.92	0.14	181,185,202,216	0
22	CLA	B	1015	65/65	0.92	0.12	177,182,185,216	0
22	CLA	c	6033	65/65	0.92	0.14	138,185,199,200	0
22	CLA	C	1033	65/65	0.92	0.16	138,185,199,200	0
22	CLA	H	1017	65/65	0.92	0.15	169,197,201,208	0
27	IOD	t	6066	1/1	0.92	0.08	199,199,199,199	0
22	CLA	B	1010	65/65	0.92	0.15	160,183,186,189	0
22	CLA	b	6018	65/65	0.93	0.14	172,186,191,192	0
22	CLA	b	6010	65/65	0.93	0.12	160,183,186,189	0
22	CLA	b	6020	65/65	0.93	0.15	167,175,180,197	0
22	CLA	D	1004	65/65	0.93	0.15	130,168,179,181	0
22	CLA	B	1016	65/65	0.93	0.12	130,172,175,180	0
30	FE2	a	6002	1/1	0.93	0.14	148,148,148,148	0
31	HEM	F	1040	43/43	0.93	0.17	186,215,216,216	0
22	CLA	b	6023	65/65	0.93	0.11	174,179,181,191	0
22	CLA	b	6013	65/65	0.94	0.17	146,173,183,184	0
22	CLA	B	1018	65/65	0.94	0.13	172,186,191,192	0
31	HEM	V	1041	43/43	0.94	0.23	131,181,185,187	0
22	CLA	B	1013	65/65	0.94	0.14	146,173,183,184	0
31	HEM	v	6041	43/43	0.94	0.15	131,181,185,187	0
30	FE2	D	1002	1/1	0.95	0.09	148,148,148,148	0
22	CLA	d	6004	65/65	0.95	0.13	130,168,179,181	0
27	IOD	a	6065	1/1	0.96	0.06	158,158,158,158	0
22	CLA	B	1020	65/65	0.96	0.13	167,175,180,197	0
21	OEC	a	6001	5/9	0.98	0.09	132,148,162,172	0
27	IOD	A	1065	1/1	0.98	0.04	158,158,158,158	0
21	OEC	A	1001	5/9	0.98	0.07	132,148,162,172	0
27	IOD	D	1064	1/1	0.98	0.03	160,160,160,160	0
27	IOD	d	6064	1/1	0.99	0.04	160,160,160,160	0

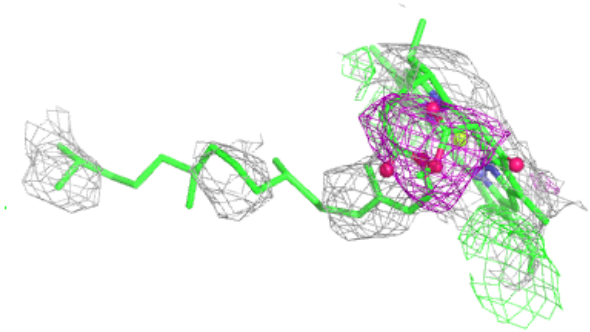
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different

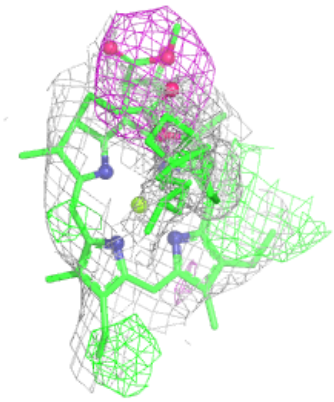
orientation to approximate a three-dimensional view.

Electron density around CLA K 1034:

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

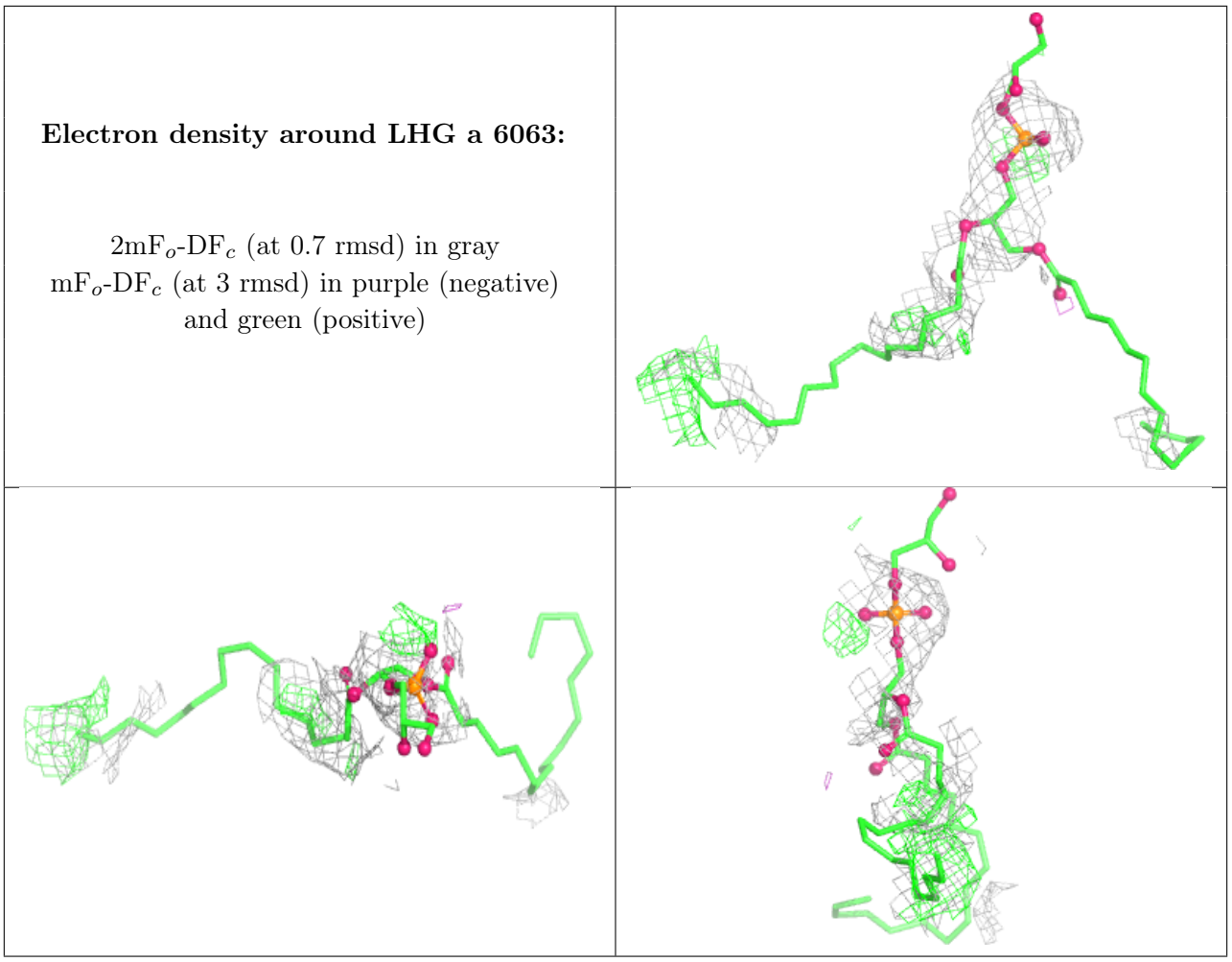






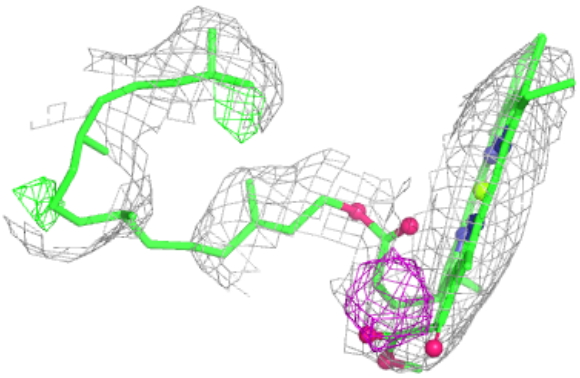
Electron density around LHG a 6063:

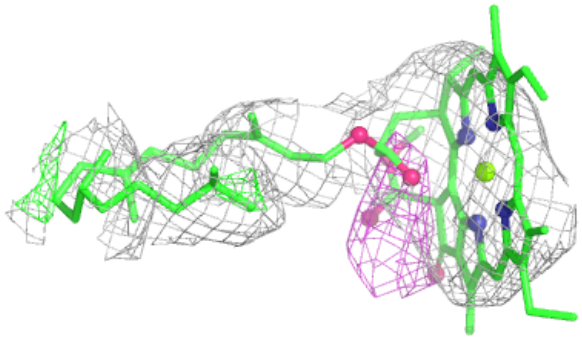
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

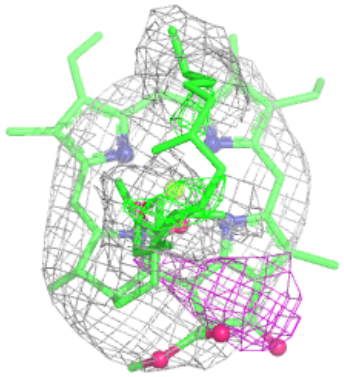


Electron density around CLA B 1009:

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

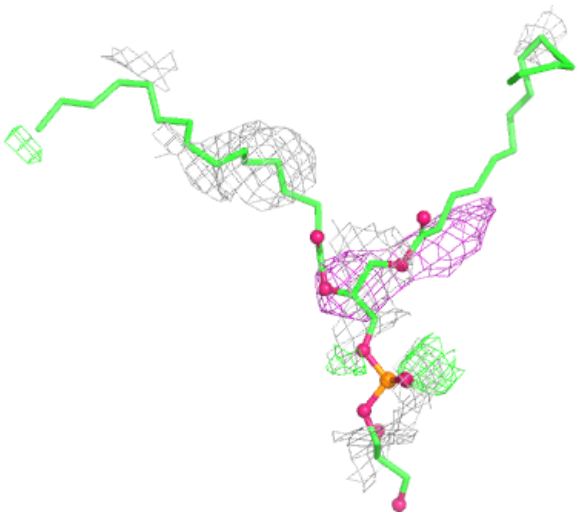


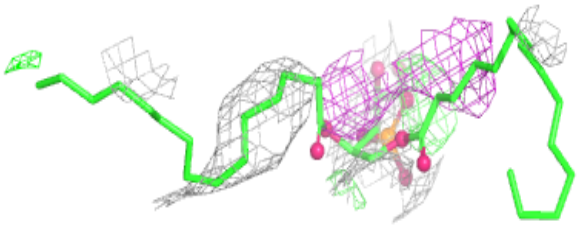


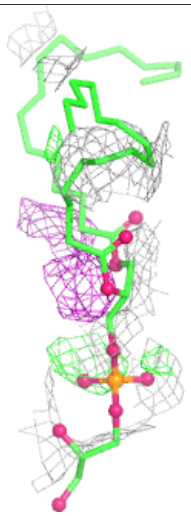


Electron density around LHG A 1063:

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

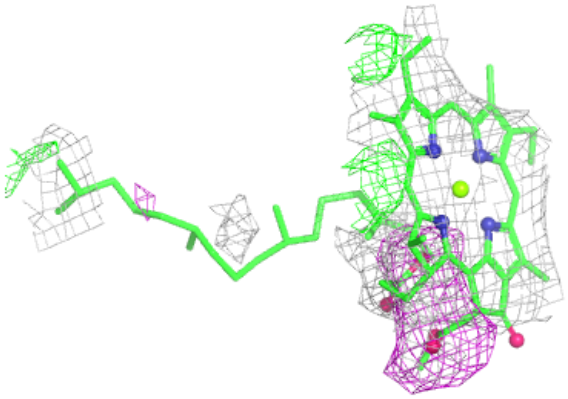


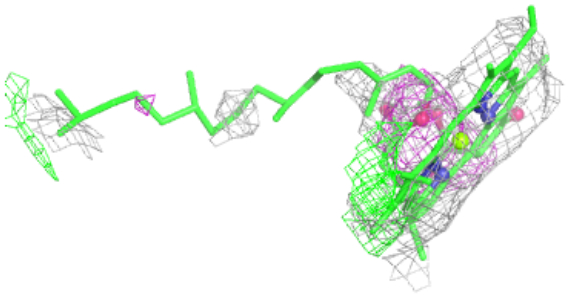


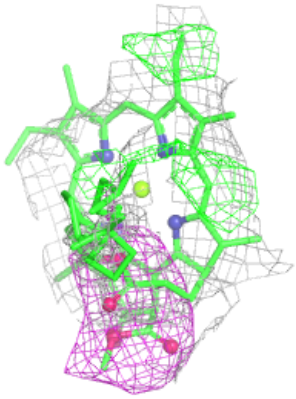


Electron density around CLA k 6034:

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

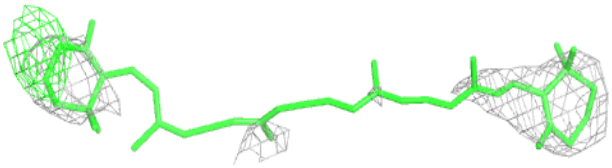




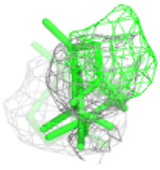


Electron density around BCR T 6048:

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

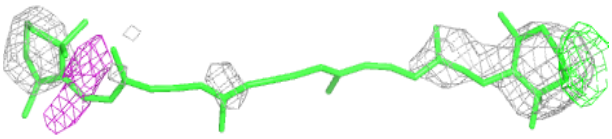


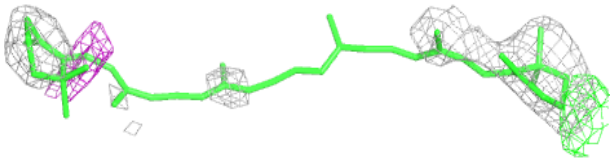


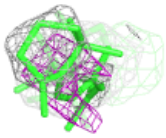


Electron density around BCR A 1044:

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

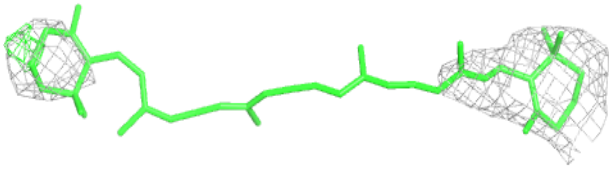


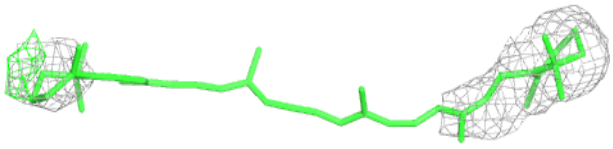


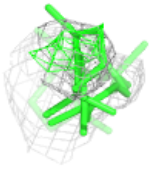


Electron density around BCR B 1048:

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

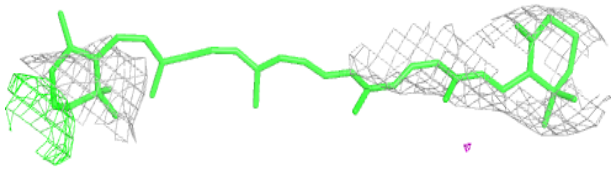


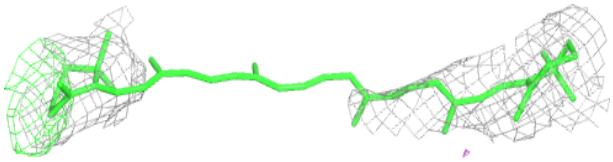


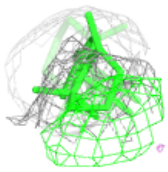


Electron density around BCR b 6047:

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

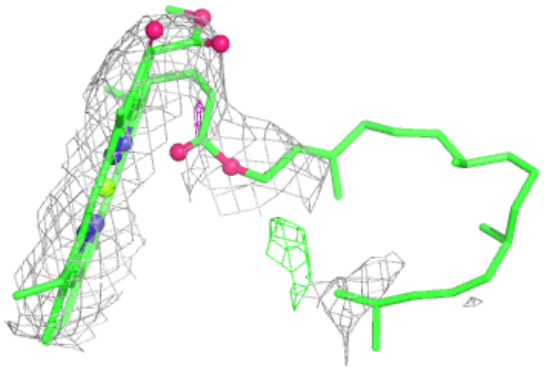


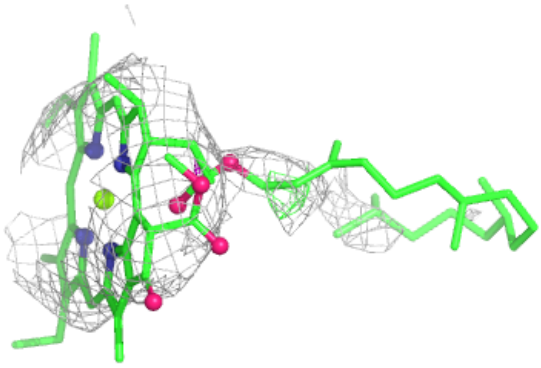


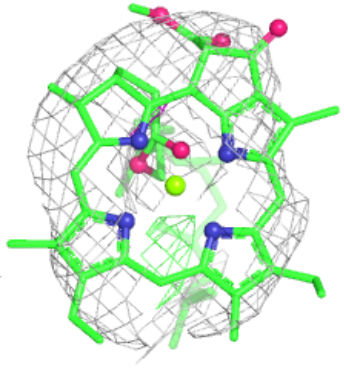


Electron density around CLA b 6009:

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

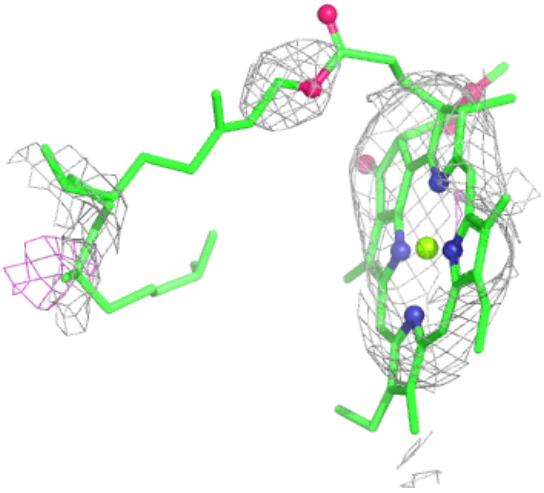


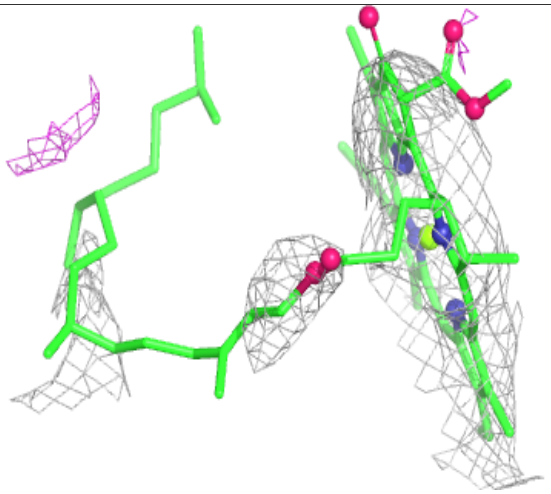


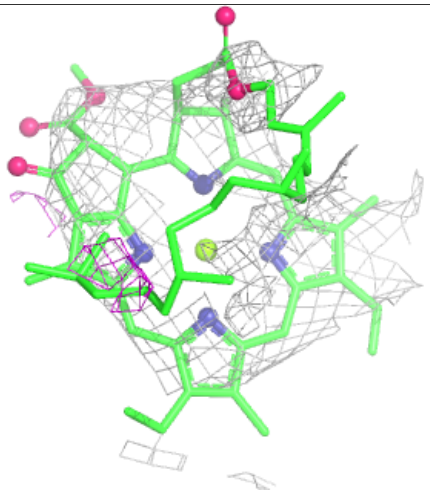


Electron density around CLA c 6037:

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

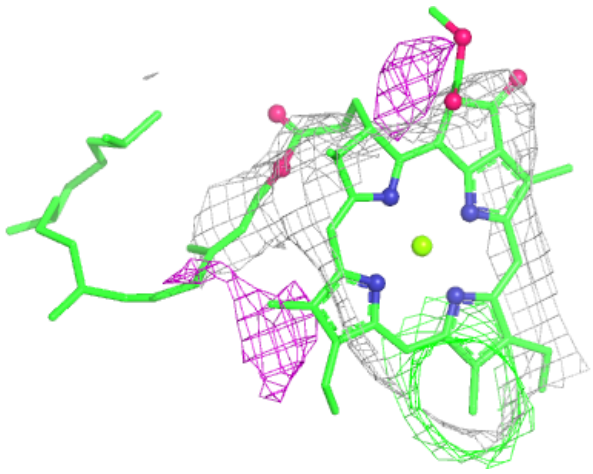


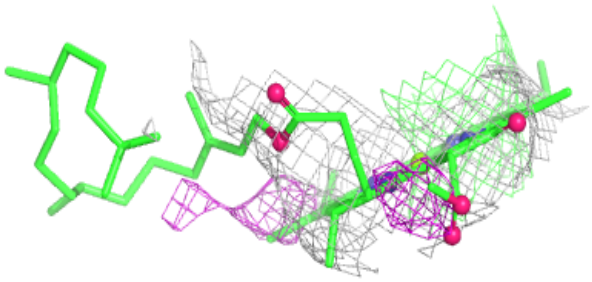


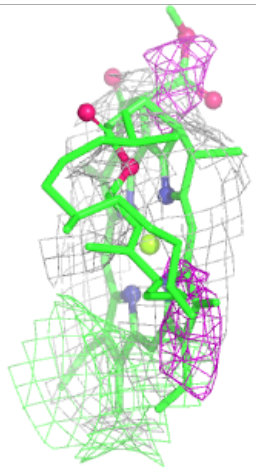


Electron density around CLA c 6027:

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

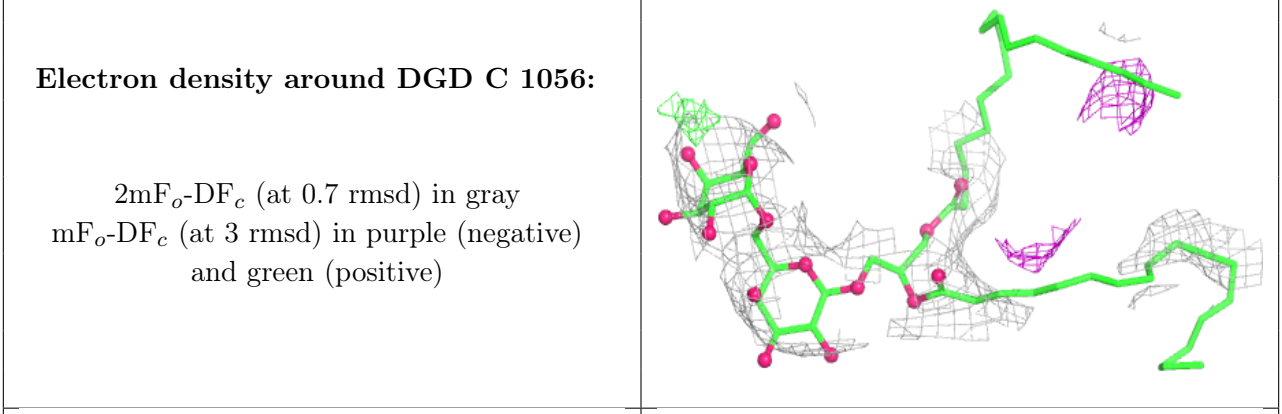






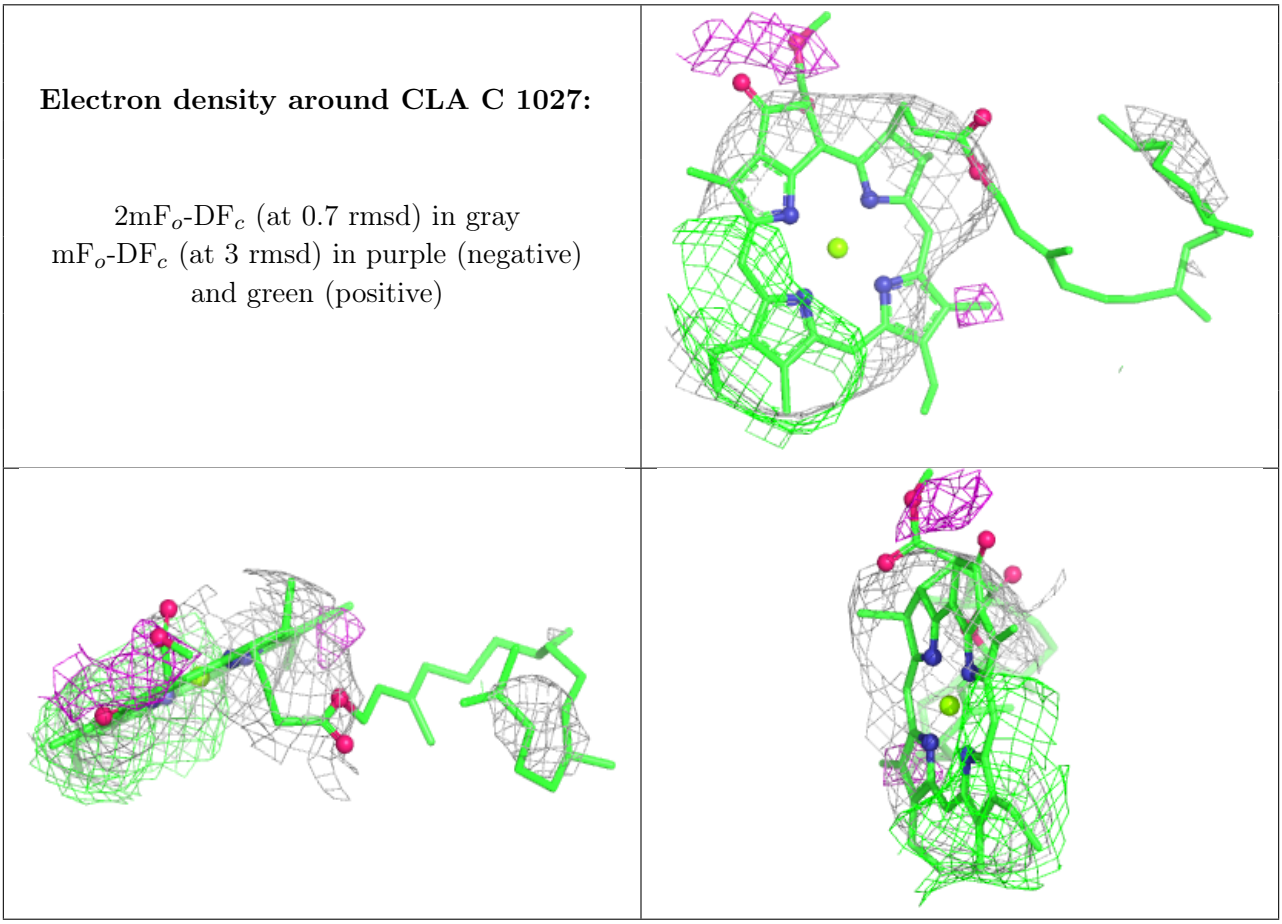
Electron density around DGD C 1056:

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



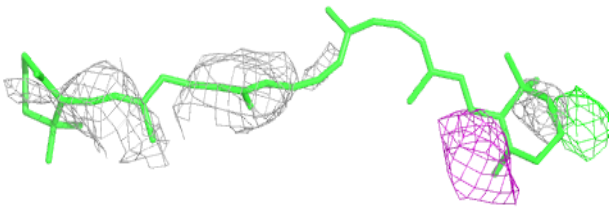
Electron density around CLA C 1027:

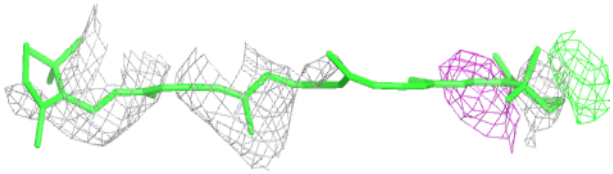
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

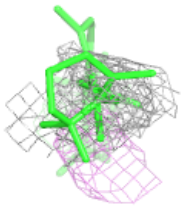


Electron density around BCR c 6054:

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

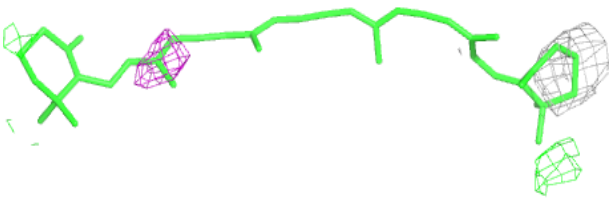


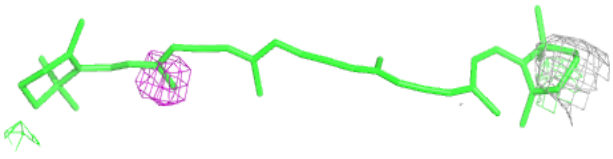


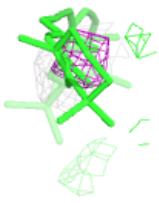


Electron density around BCR k 6052:

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

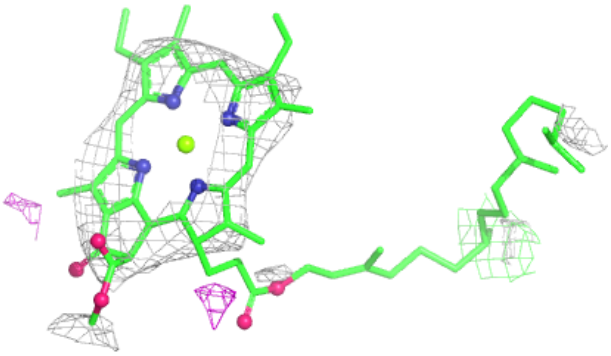


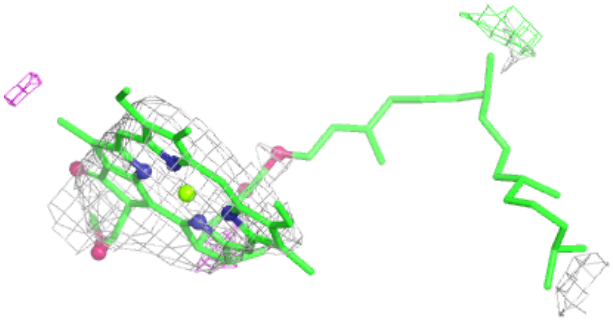


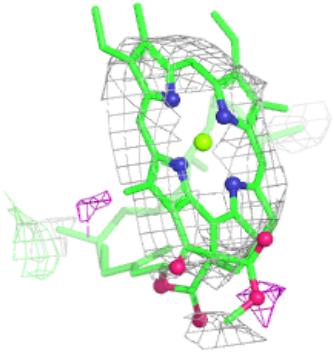


Electron density around CLA d 6008:

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

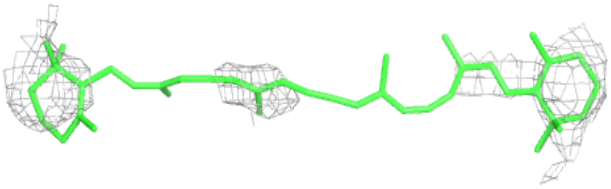


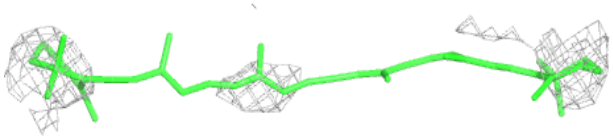


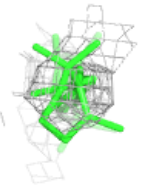


Electron density around BCR Z 1053:

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

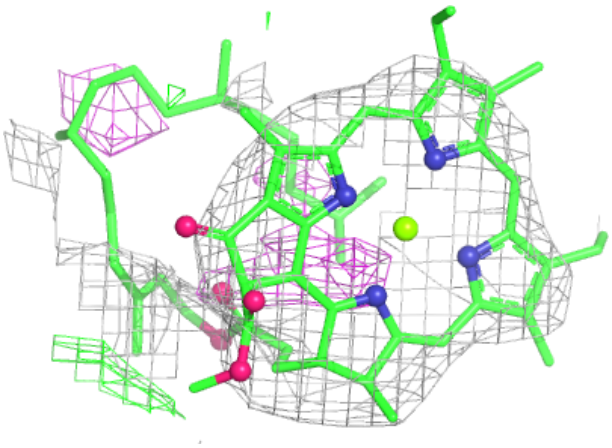


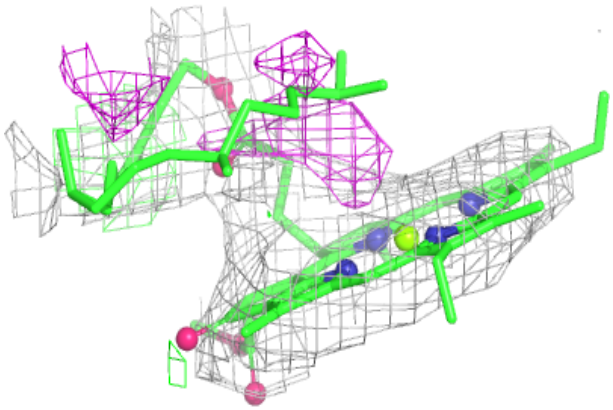


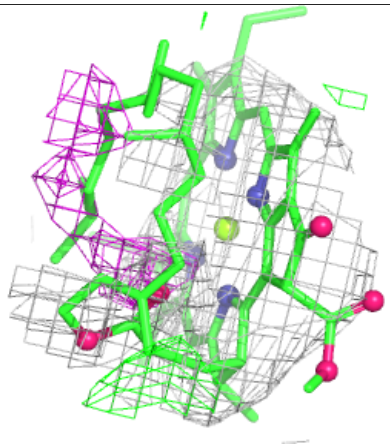


Electron density around CLA c 6026:

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

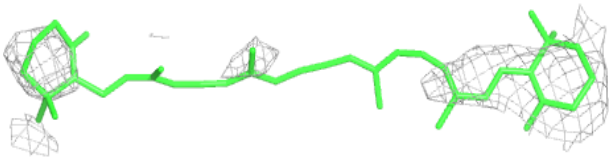


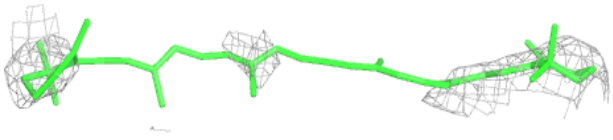


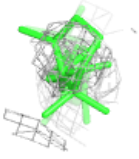


Electron density around BCR z 6053:

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

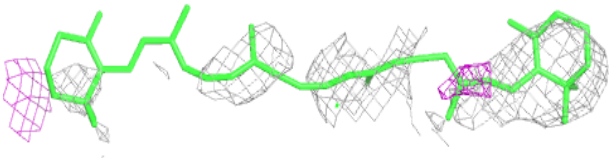


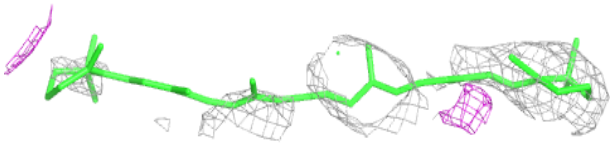


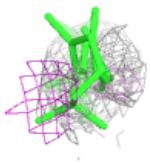


Electron density around BCR b 6045:

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

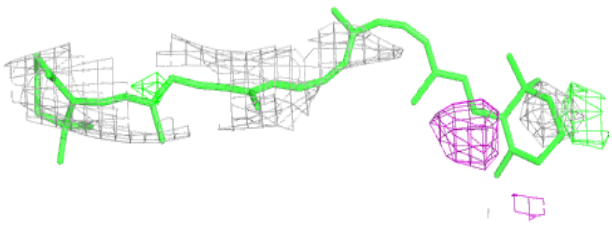


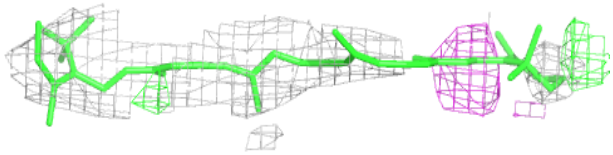


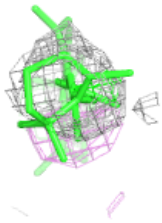


Electron density around BCR C 1054:

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

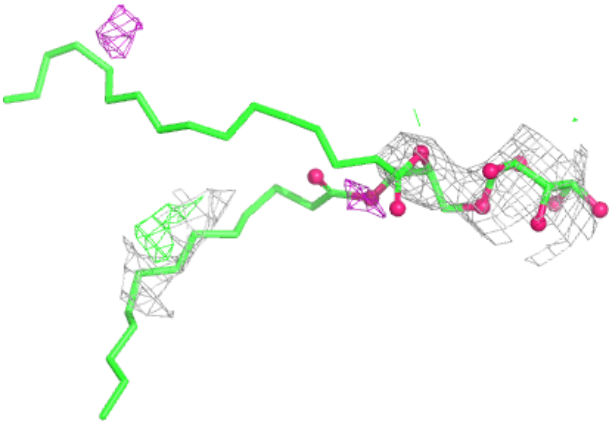


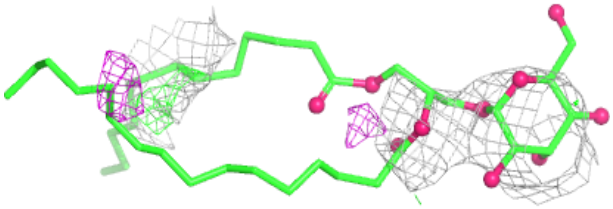


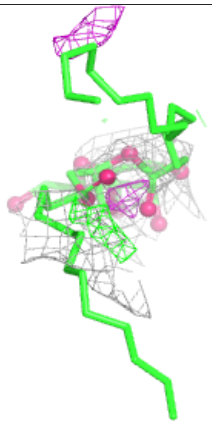


Electron density around MGE d 6062:

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

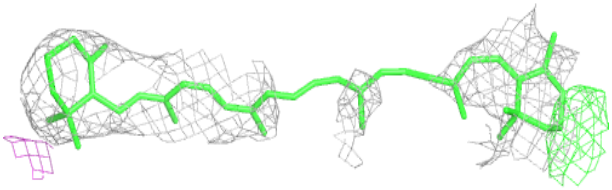


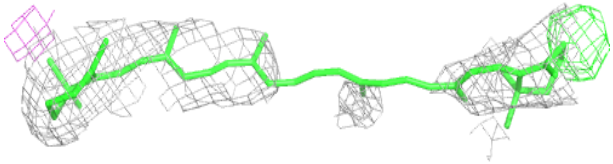


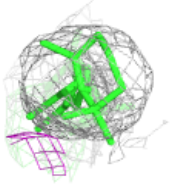


Electron density around BCR B 1047:

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

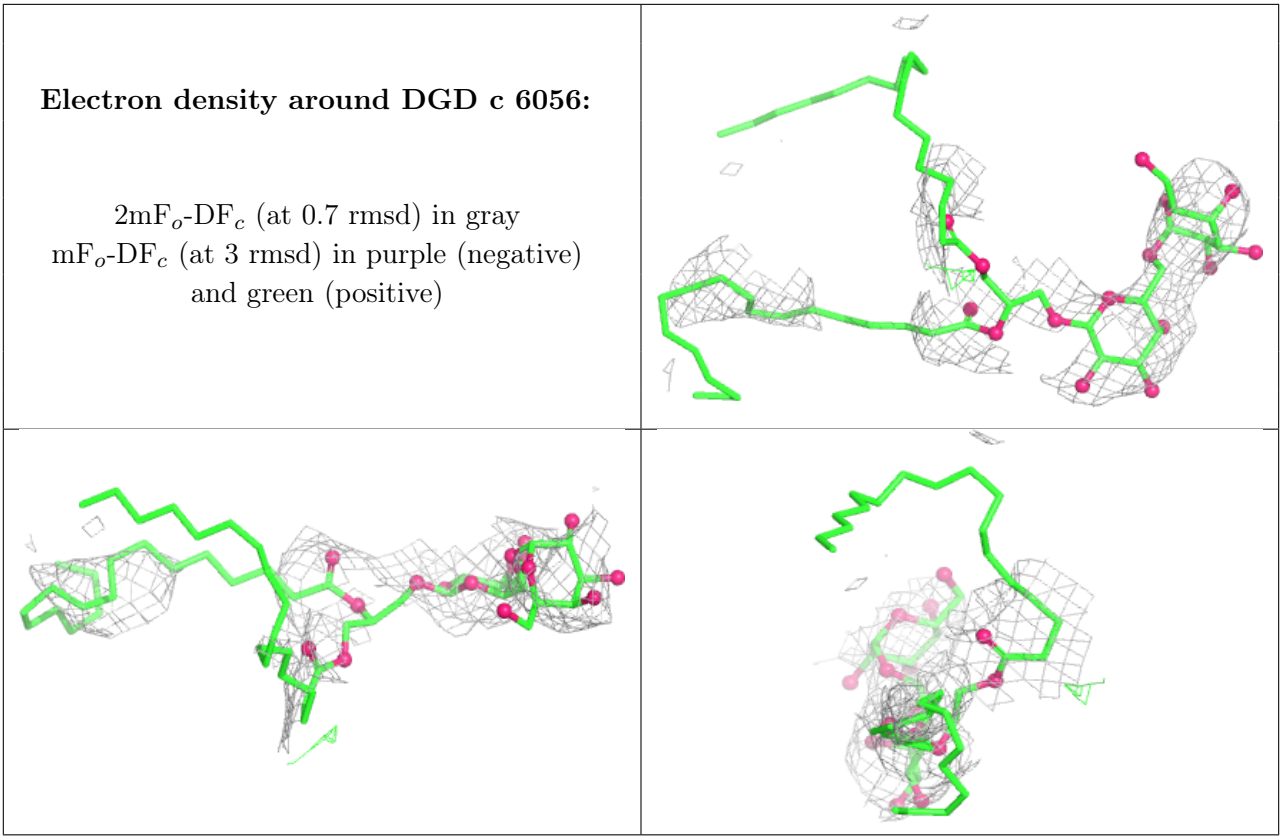






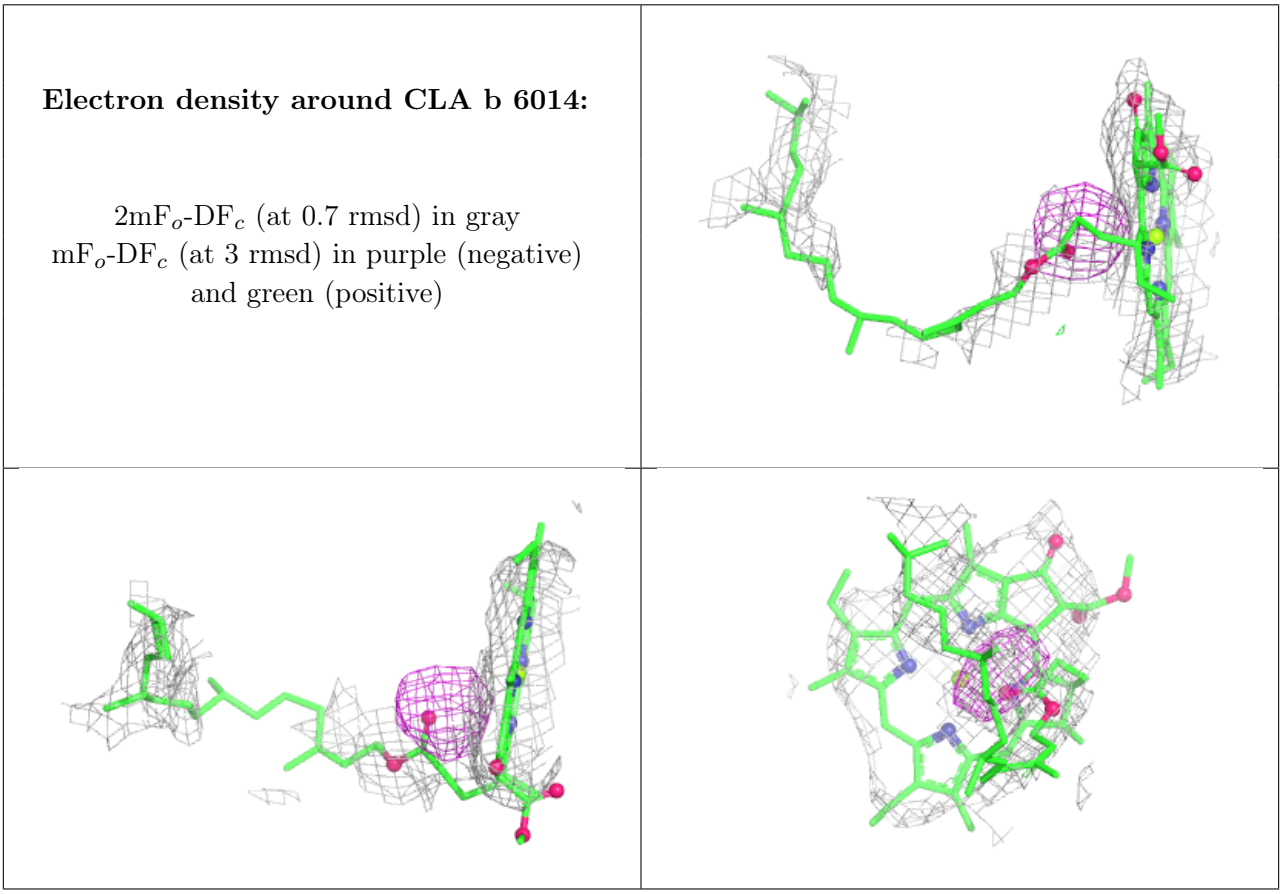
Electron density around DGD c 6056:

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



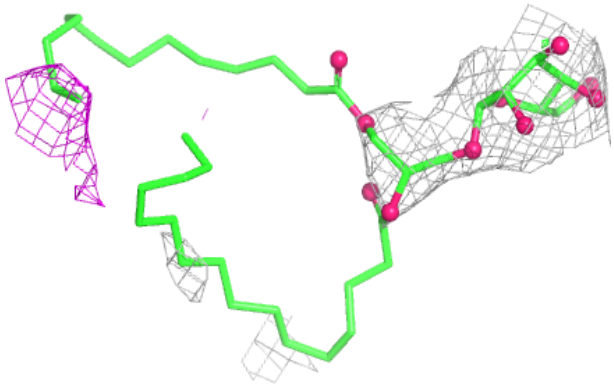
Electron density around CLA b 6014:

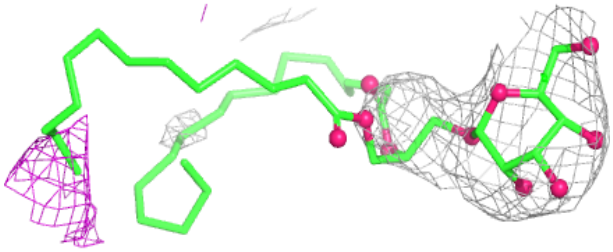
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



Electron density around 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)

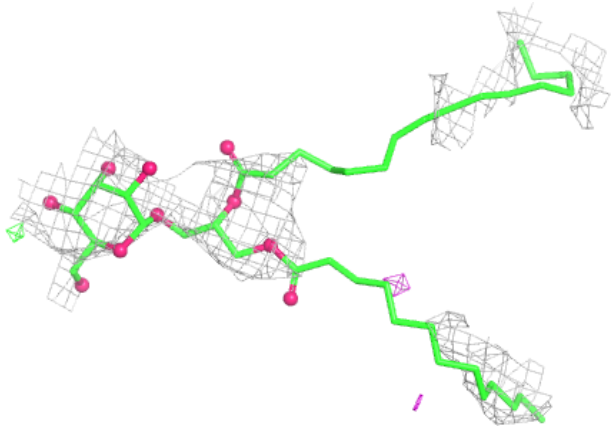


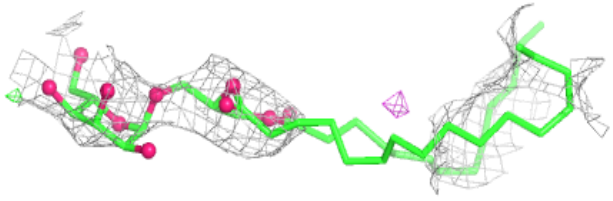


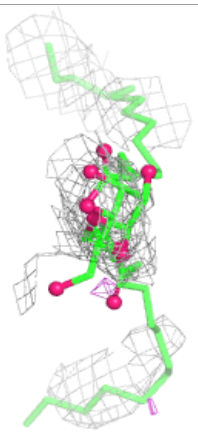


Electron density around MGE D 1059:

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

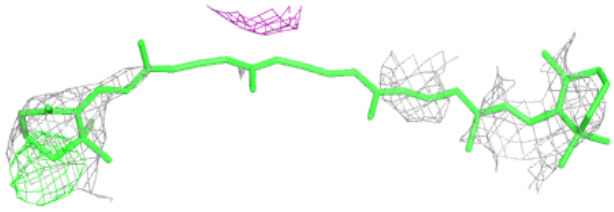


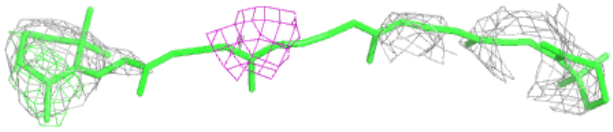


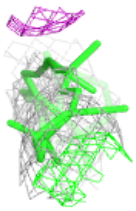


Electron density around BCR T 6046:

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

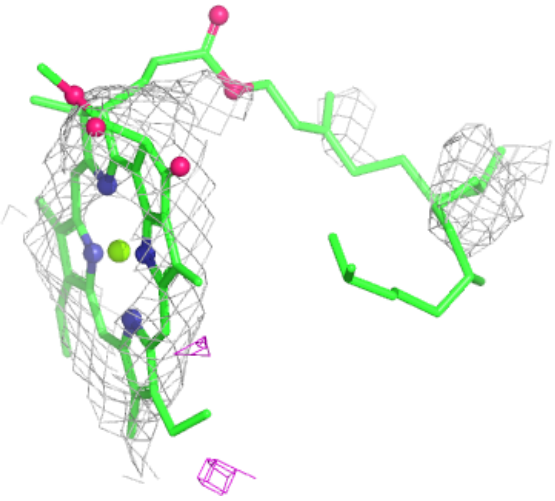


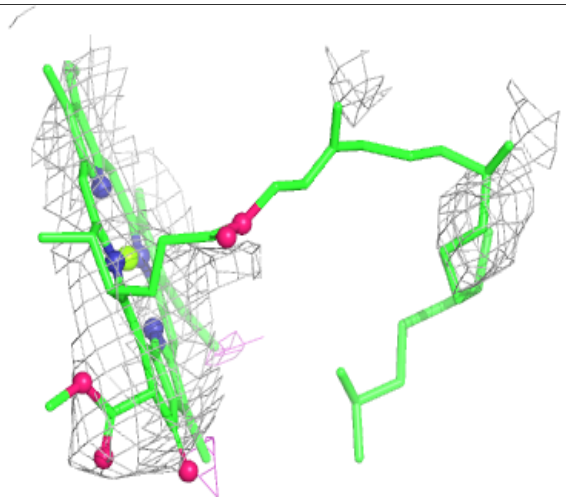


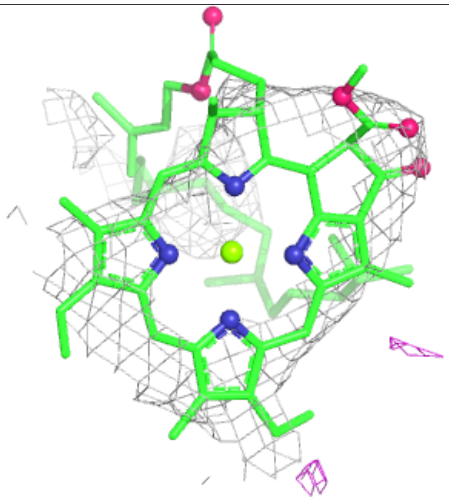


Electron density around CLA C 1037:

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

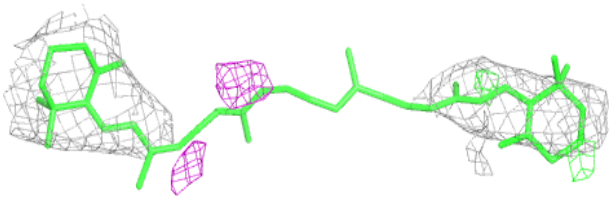


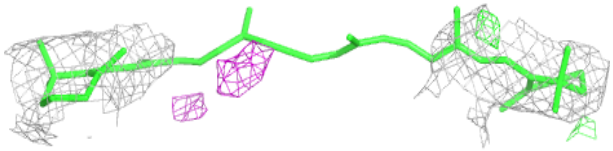


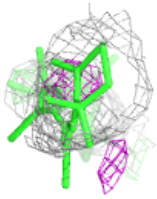


Electron density around BCR d 6050:

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

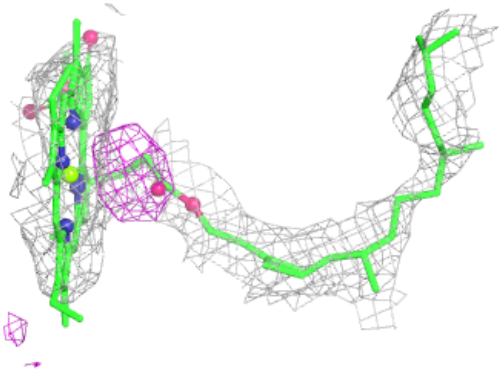


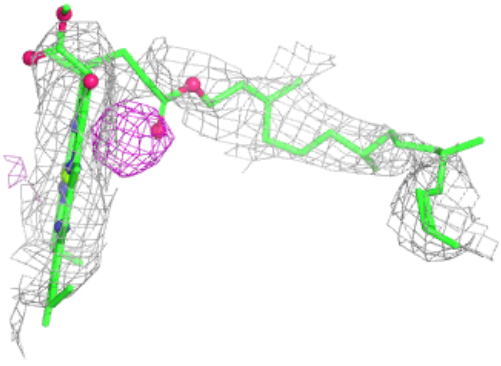


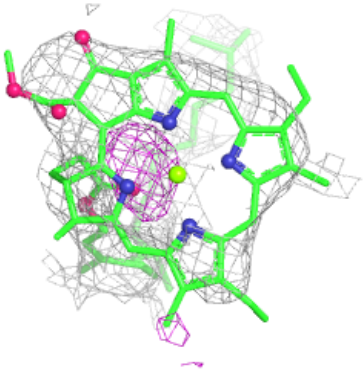


Electron density around CLA B 1014:

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

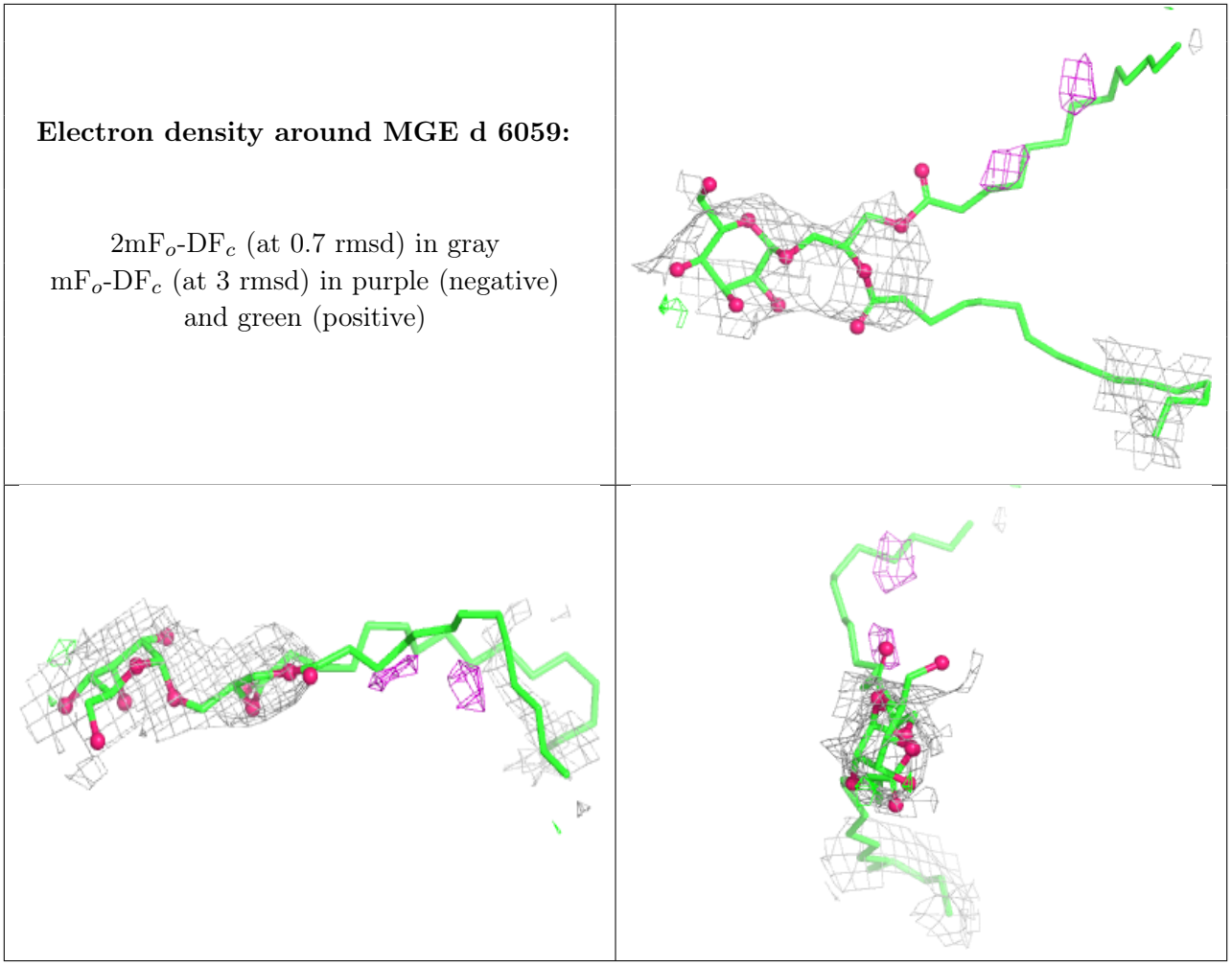






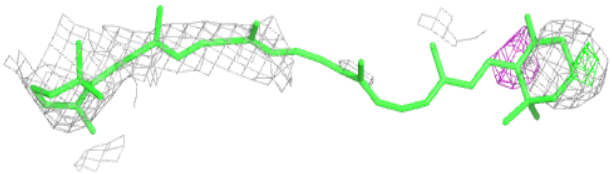
Electron density around MGE d 6059:

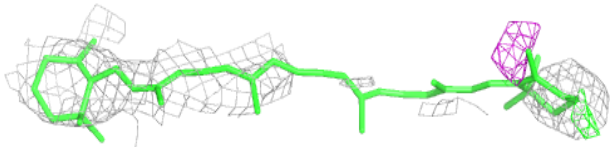
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

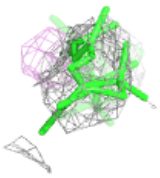


Electron density around BCR h 6049:

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

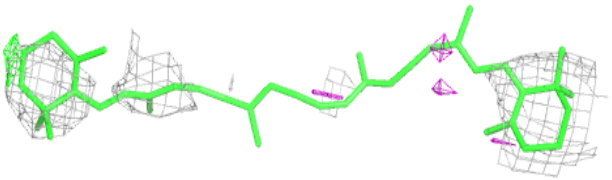


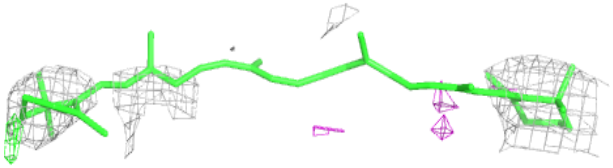


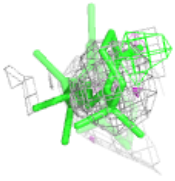


Electron density around BCR D 1050:

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

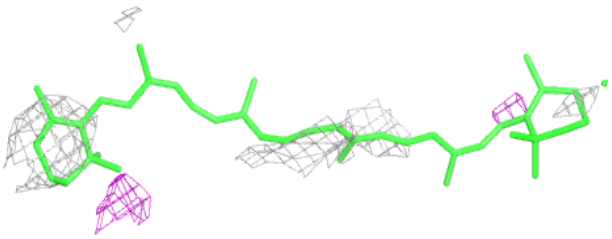




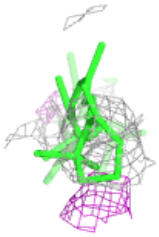


Electron density around BCR K 1051:

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

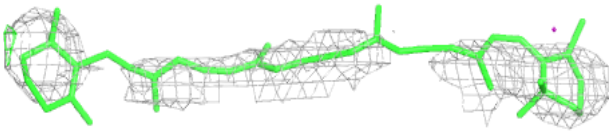


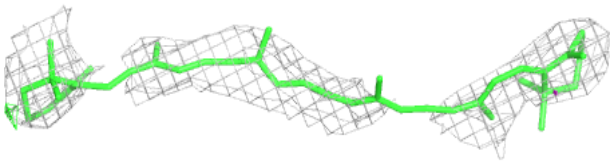


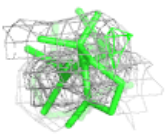


Electron density around BCR a 6044:

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

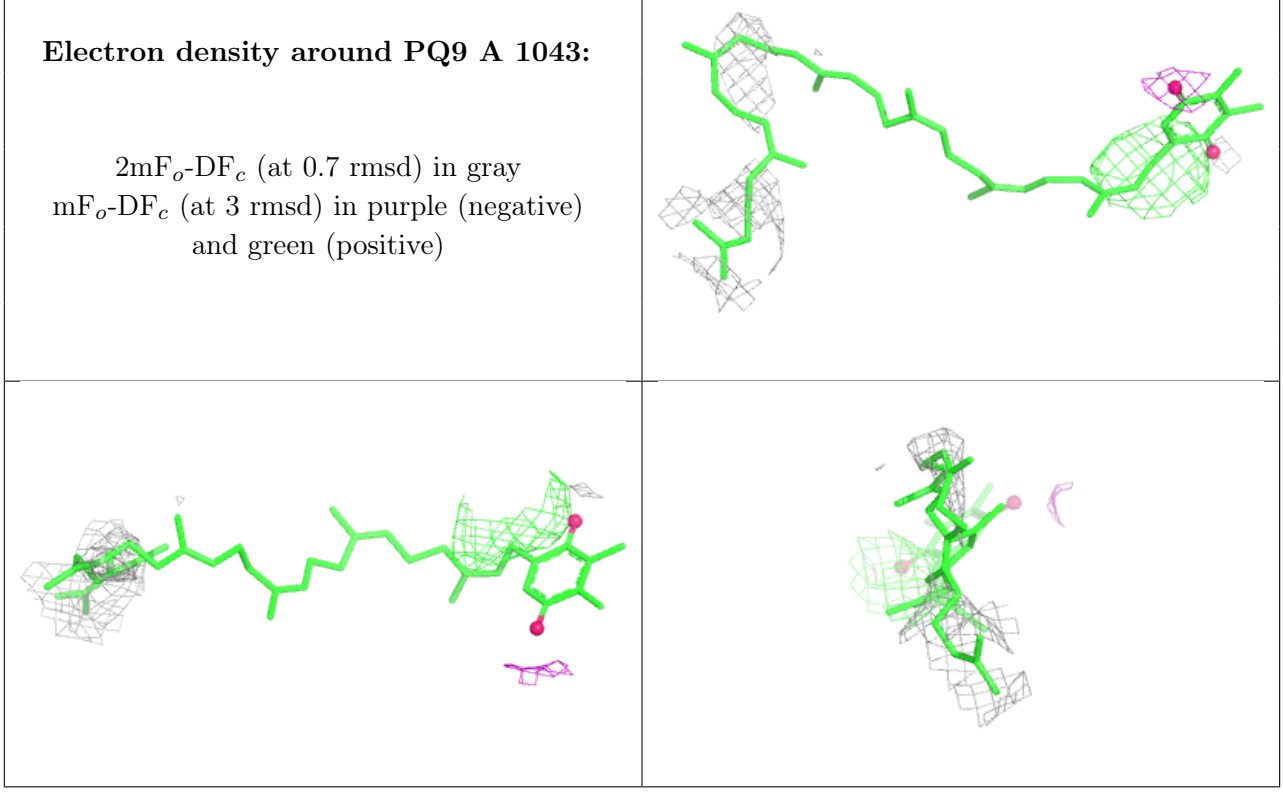






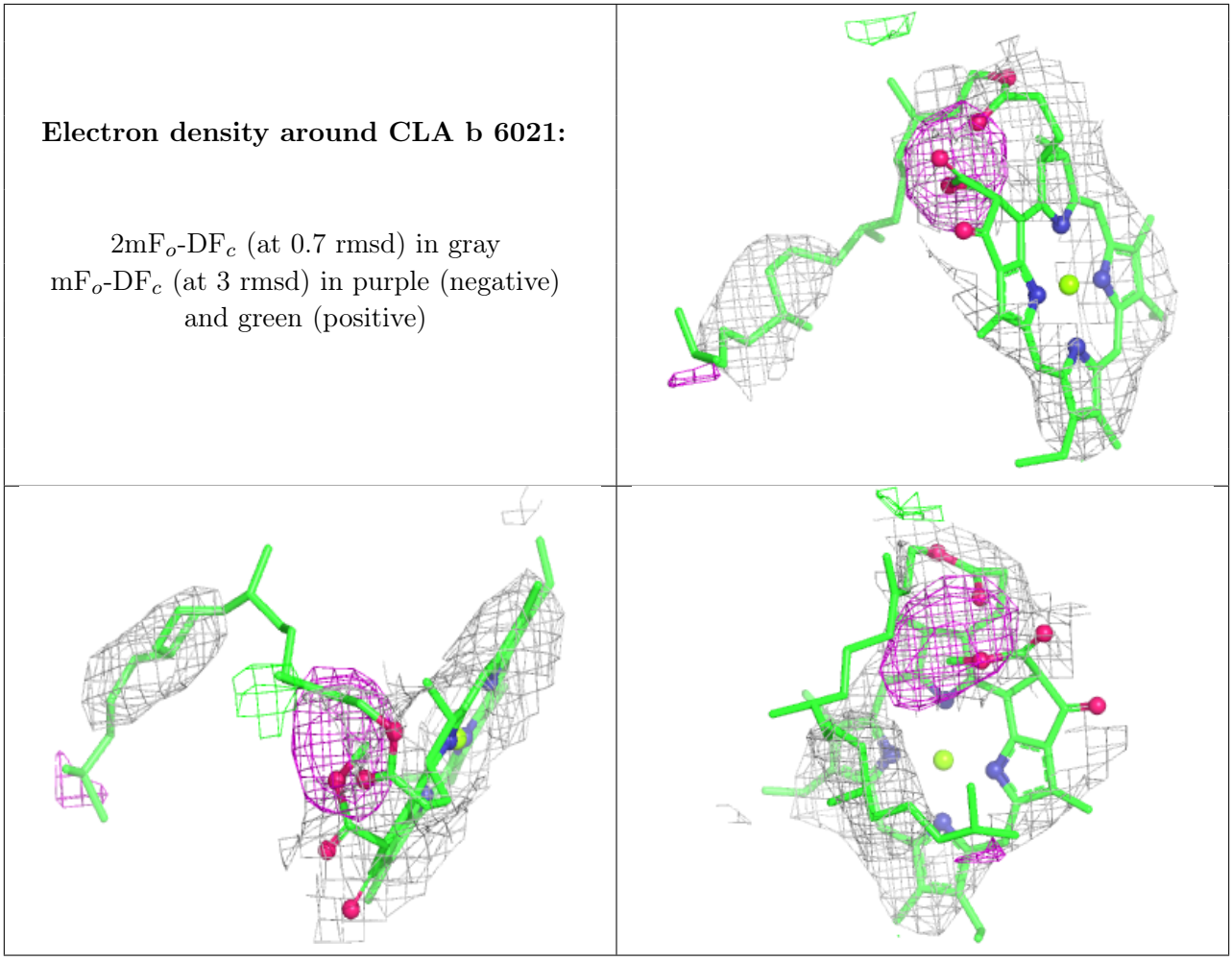
Electron density around PQ9 A 1043:

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



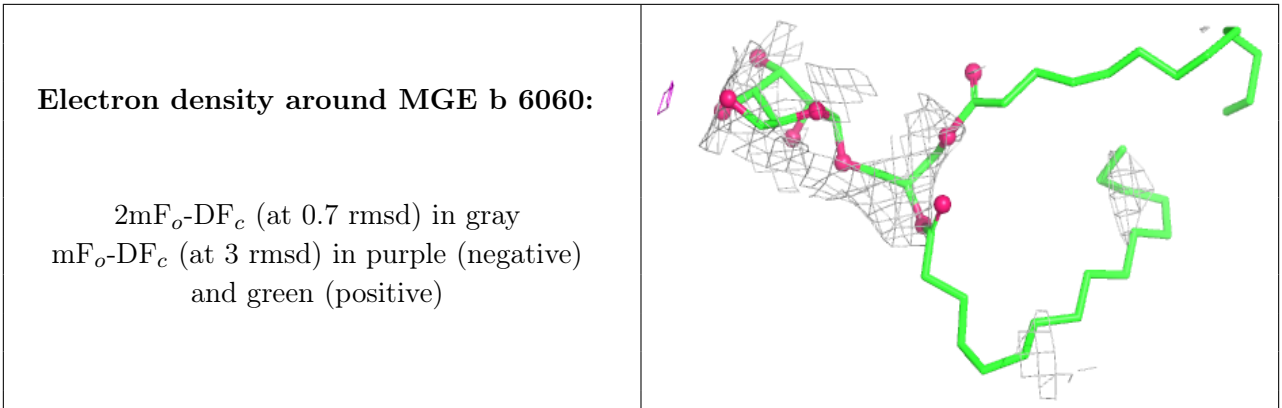
Electron density around CLA b 6021:

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



Electron density around MGE b 6060:

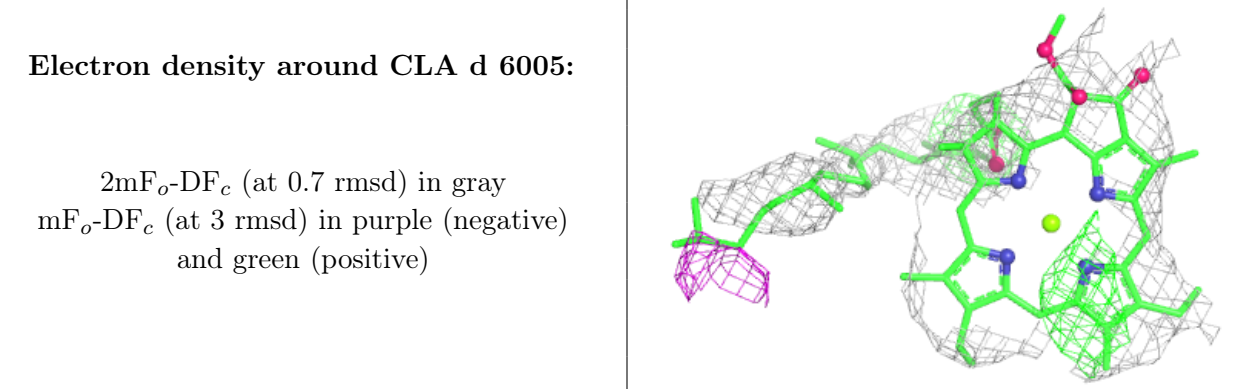
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

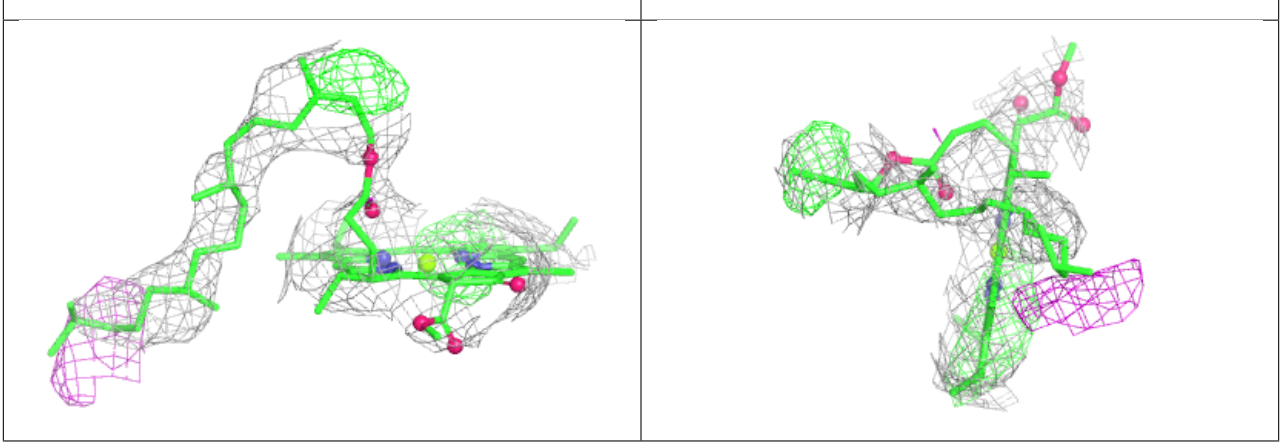




Electron density around CLA d 6005:

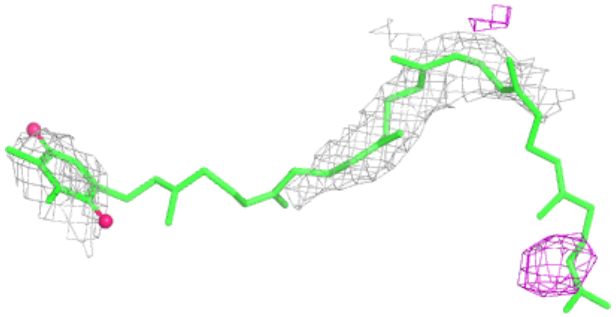
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

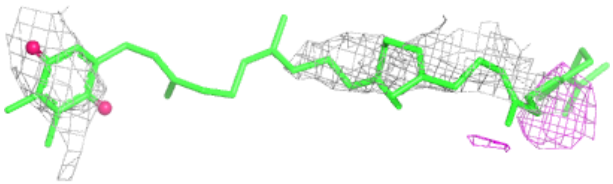


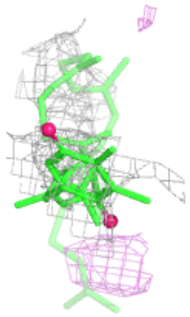


Electron density around PQ9 d 6042:

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



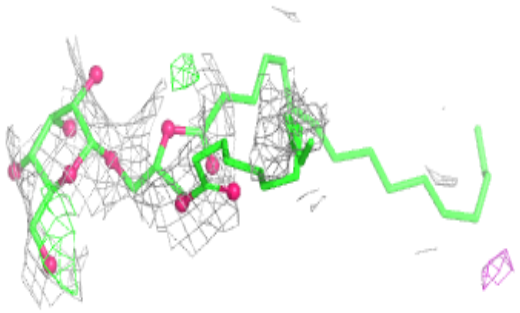




Electron density around MGE l 6061:

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

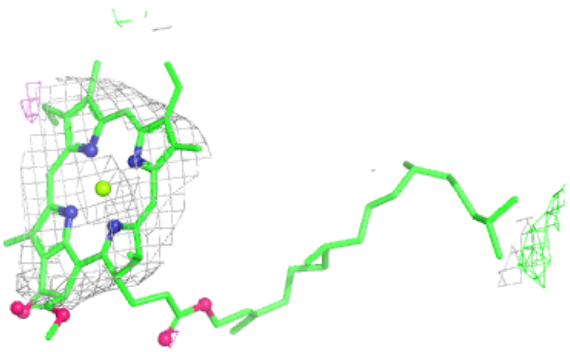


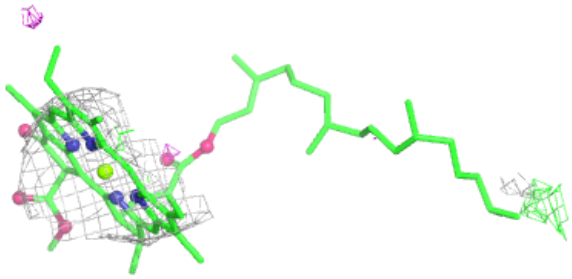


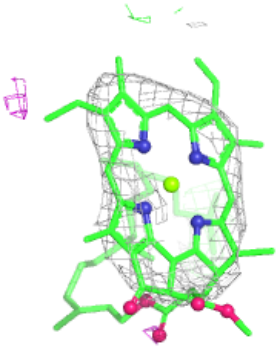


Electron density around CLA c 6035:

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



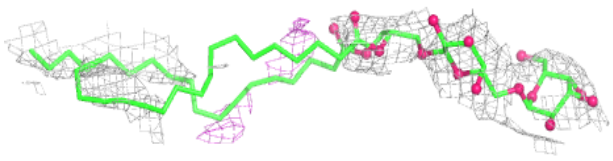


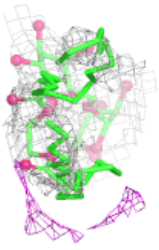


Electron density around DGD C 1057:

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

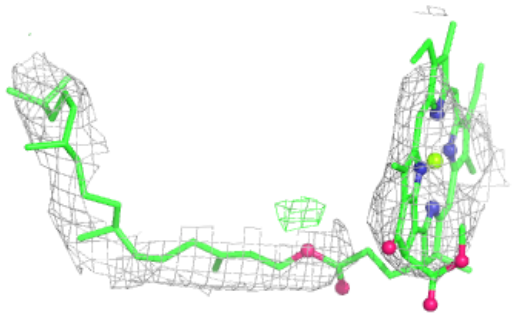


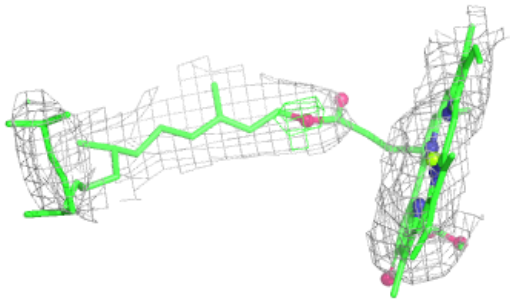




Electron density around CLA C 1030:

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



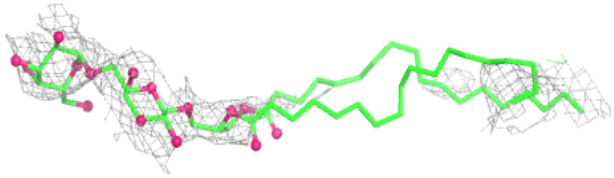


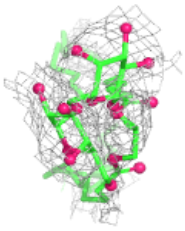


Electron density around DGD c 6057:

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

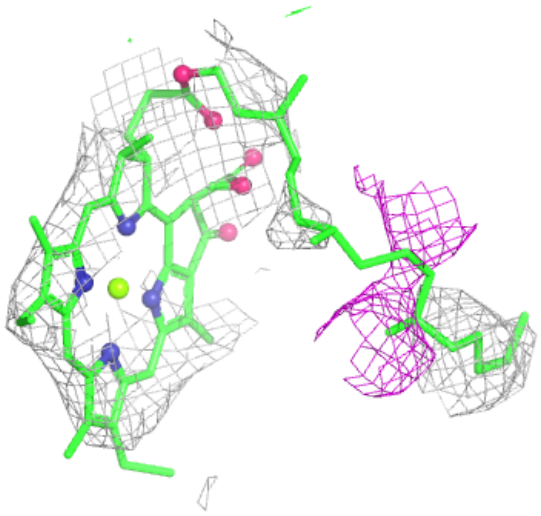


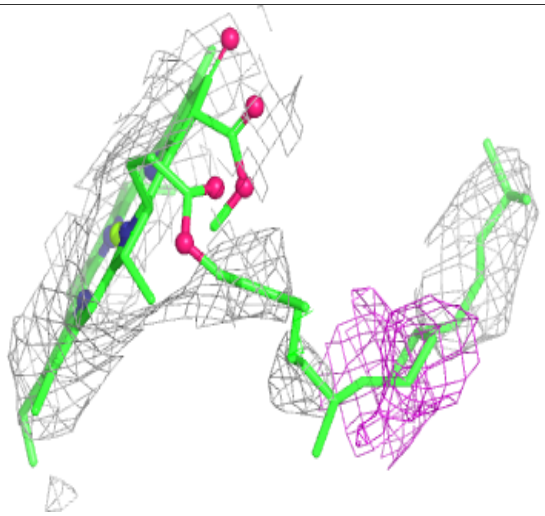


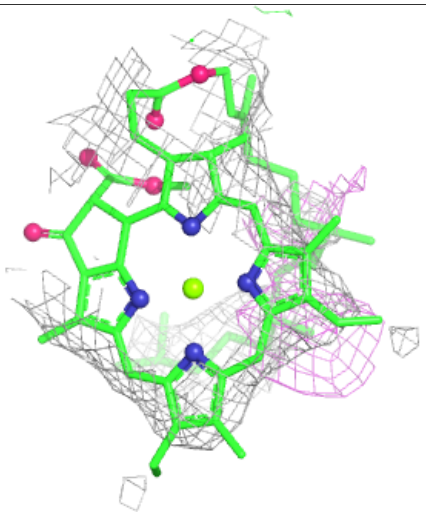


Electron density around CLA B 1021:

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

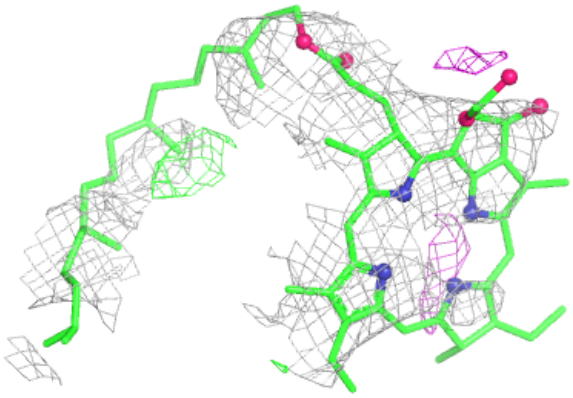


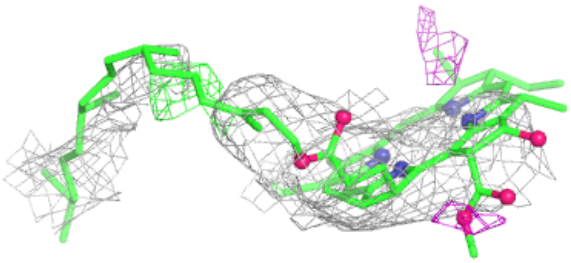


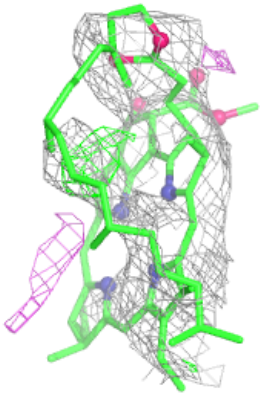


Electron density around PHO D 1039:

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

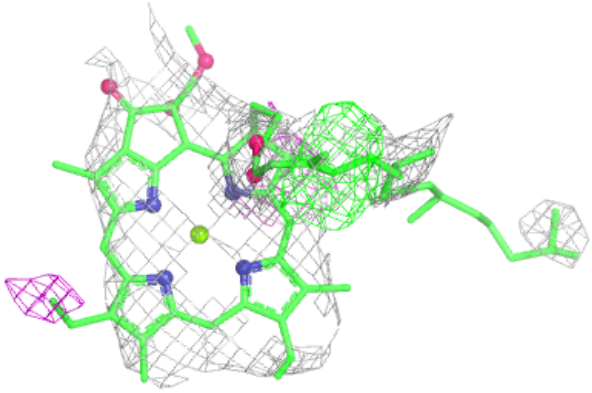


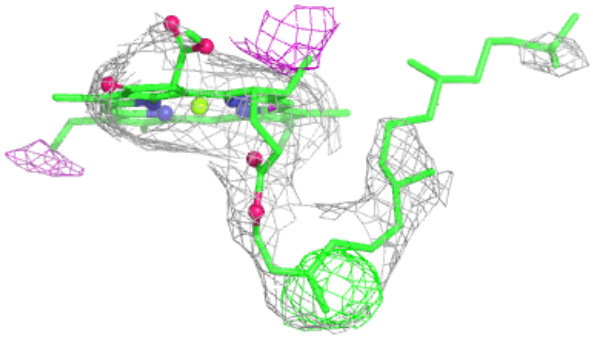


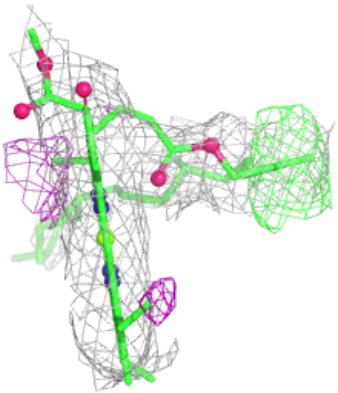


Electron density around CLA D 1005:

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

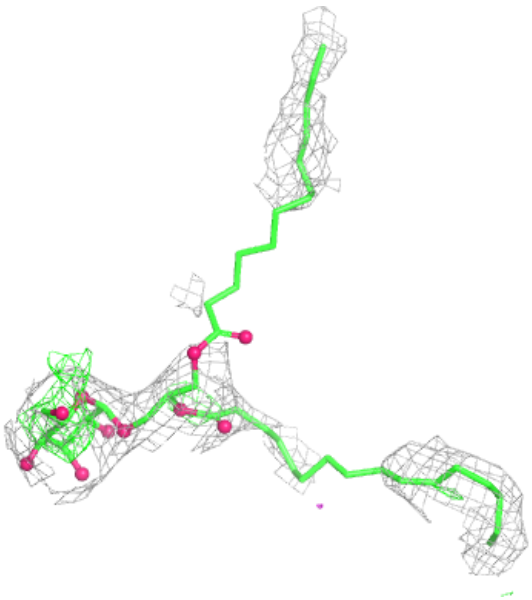


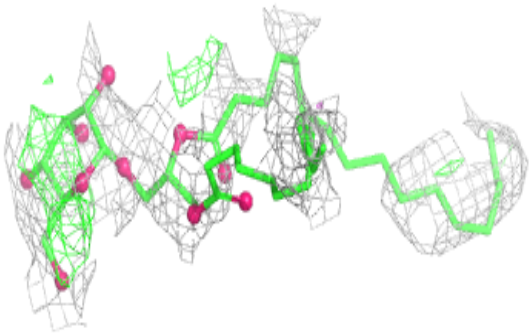




Electron density around MGE L 1061:

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

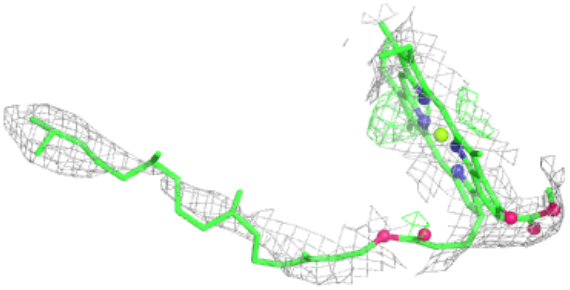


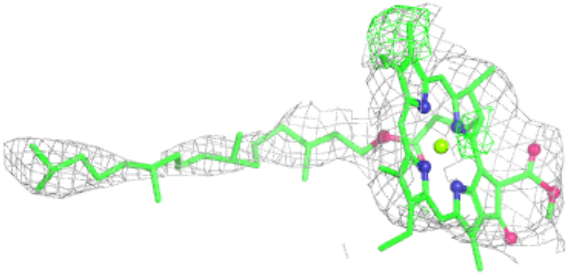


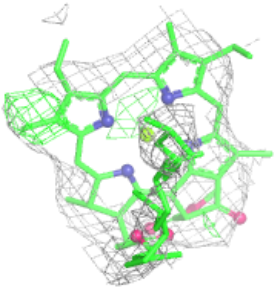


Electron density around CLA b 6015:

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

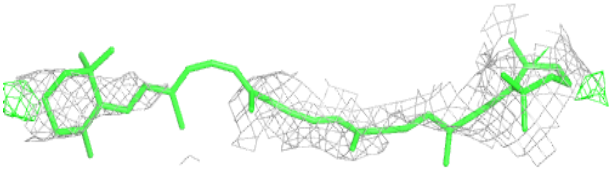


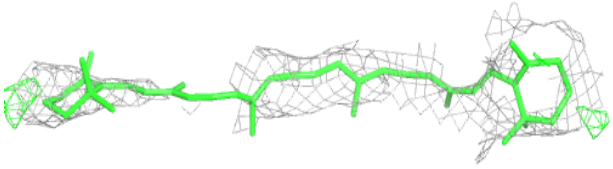


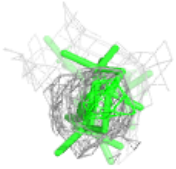


Electron density around BCR H 1049:

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

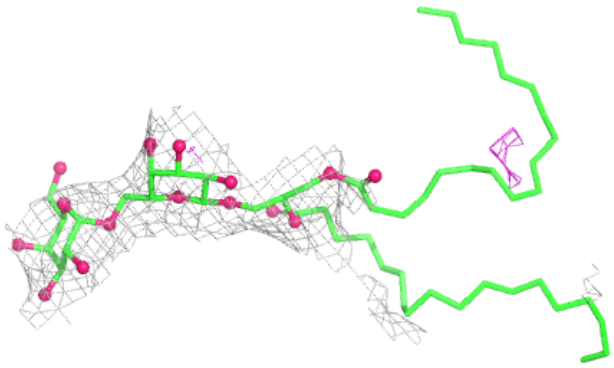


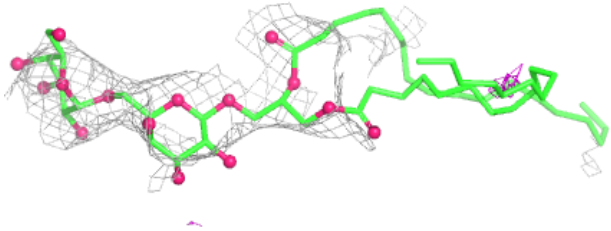


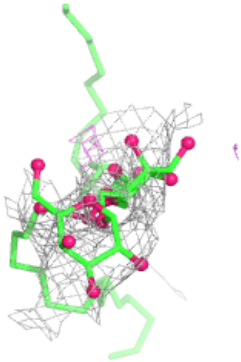


Electron density around DGD c 6055:

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

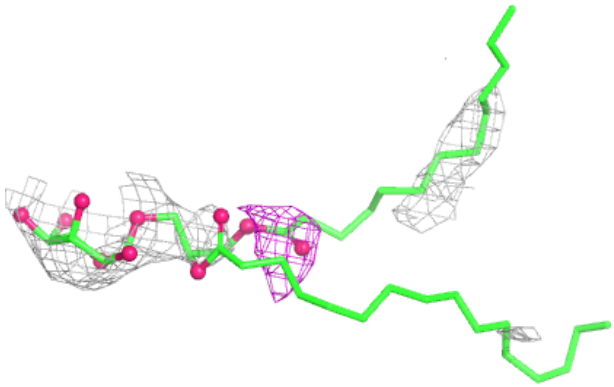


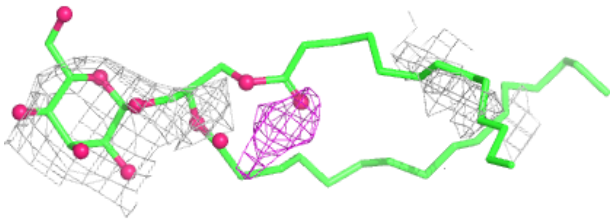


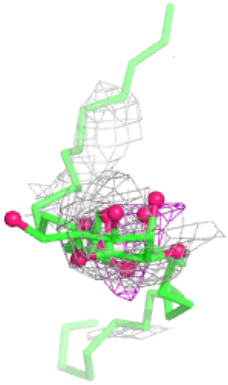


Electron density around MGE D 1062:

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

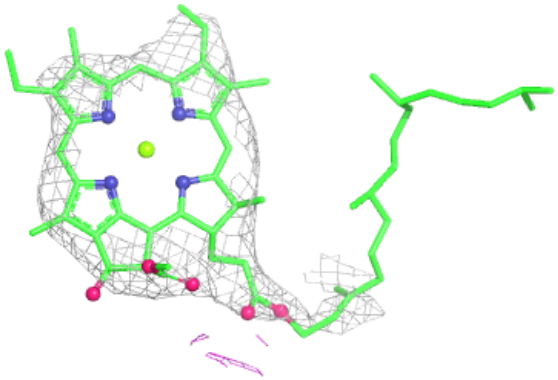


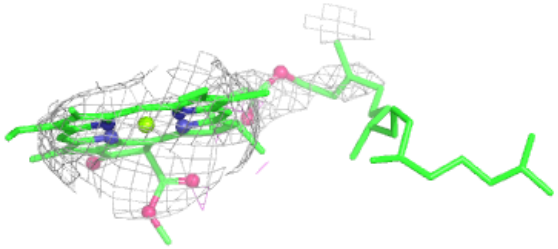


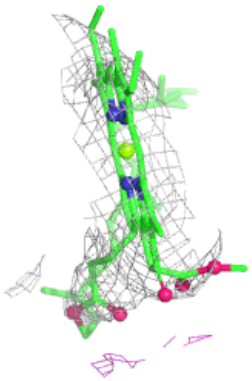


Electron density around CLA C 1036:

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

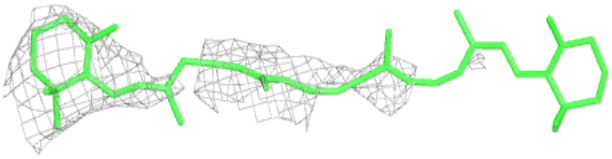


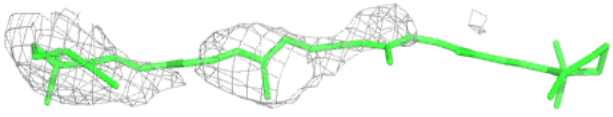


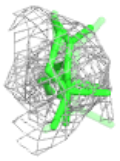


Electron density around BCR B 1045:

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

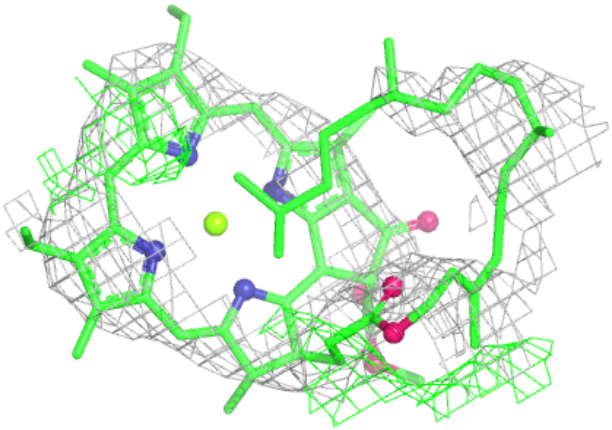


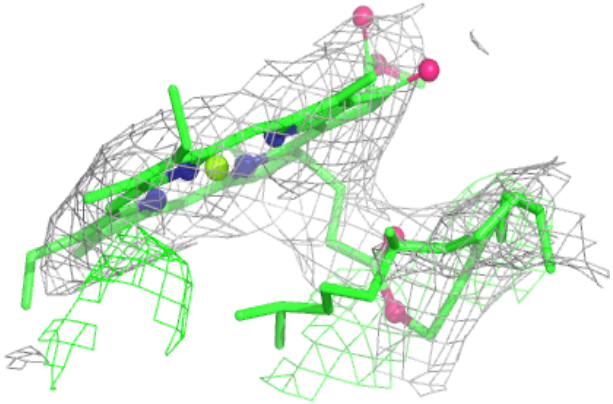


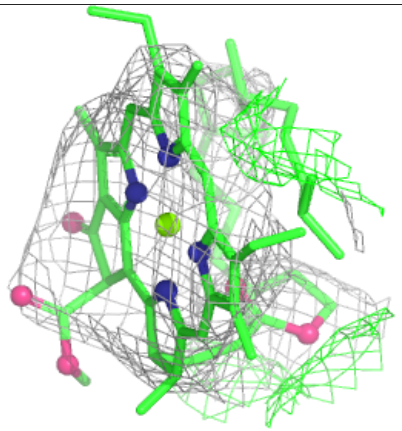


Electron density around CLA C 1026:

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

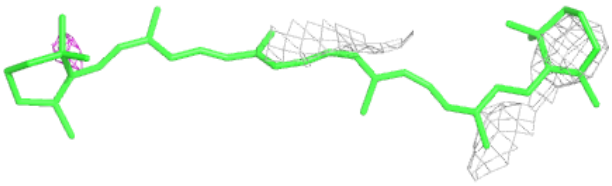




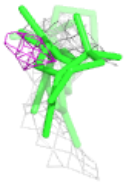


Electron density around BCR k 6051:

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

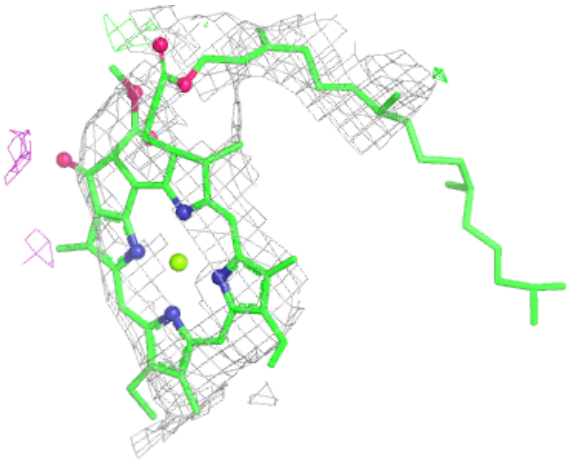


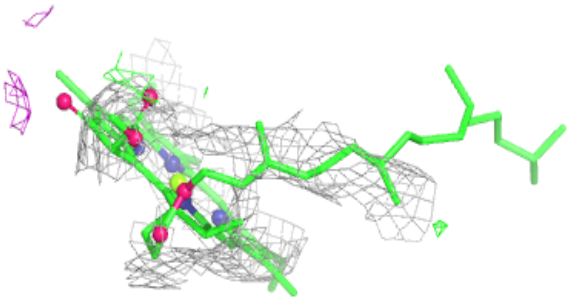


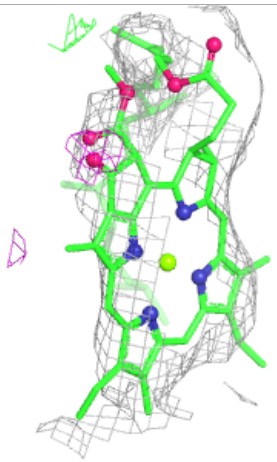


Electron density around CLA b 6024:

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

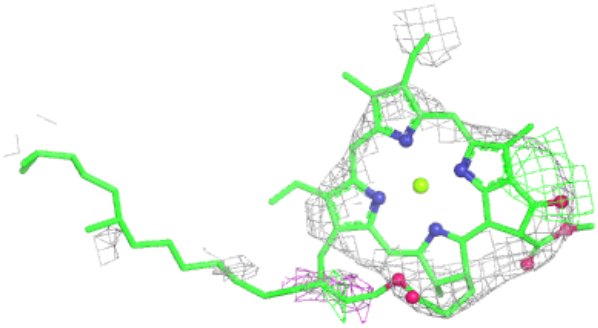


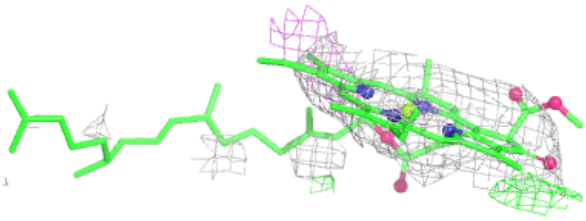




Electron density around CLA c 6025:

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

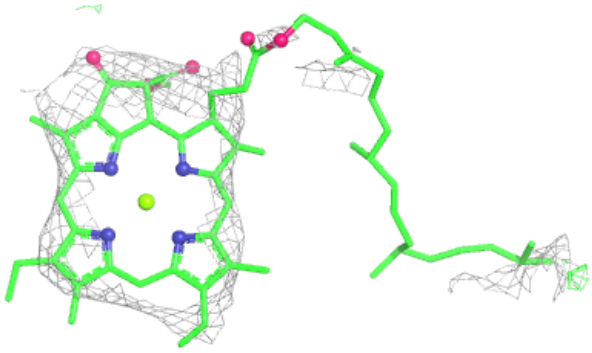


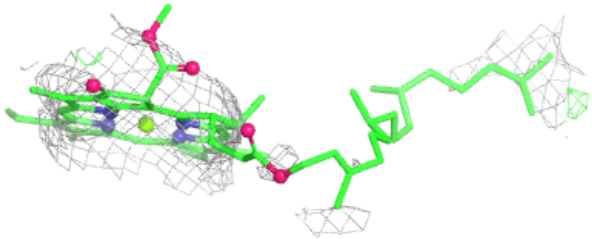


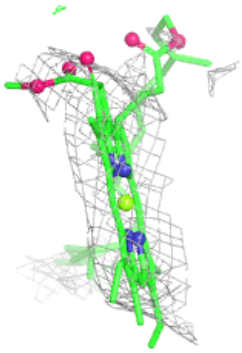


Electron density around CLA c 6036:

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

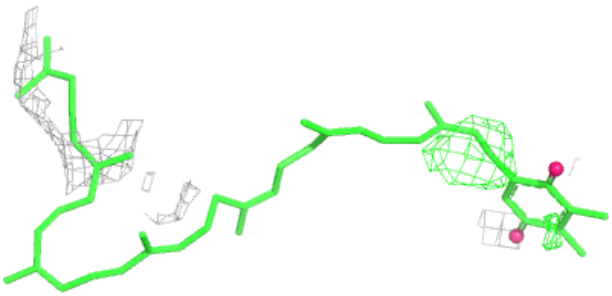


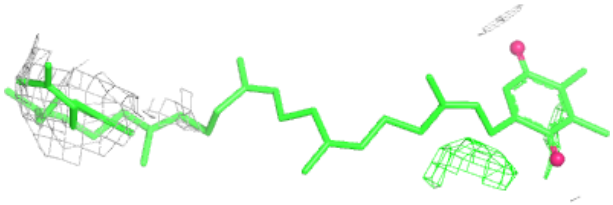


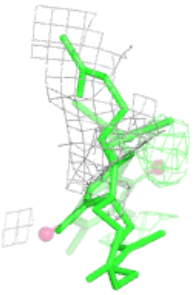


Electron density around PQ9 a 6043:

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

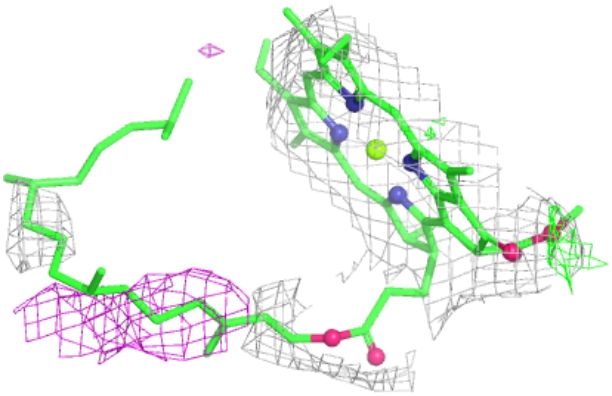


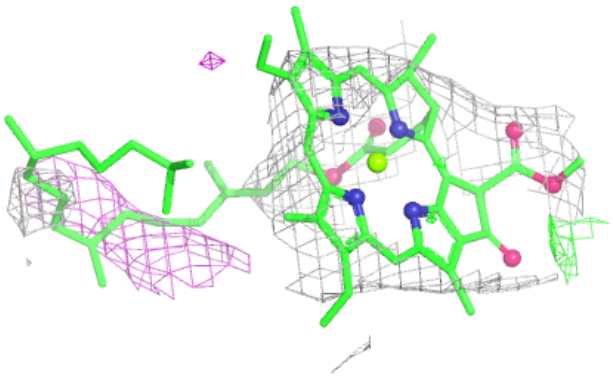




Electron density around CLA C 1028:

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

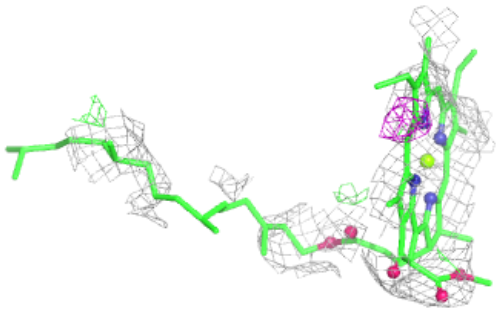


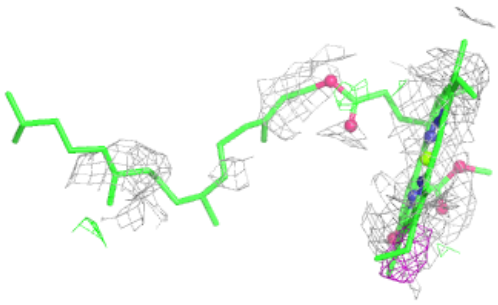


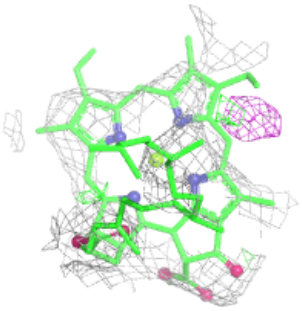


Electron density around CLA c 6032:

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

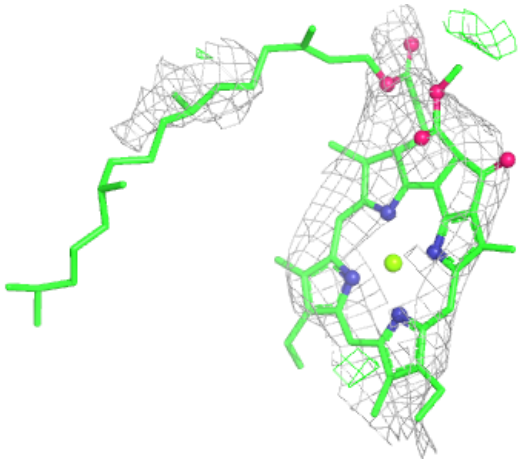


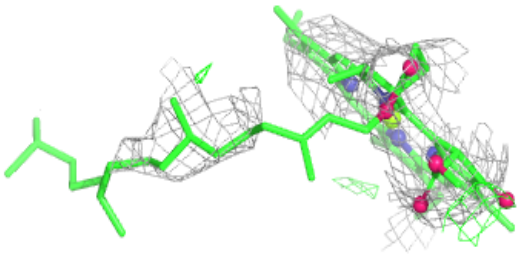


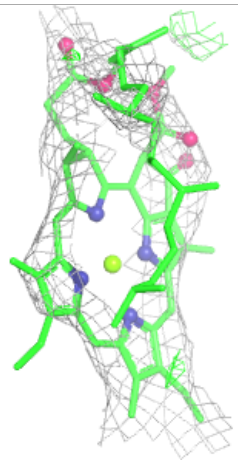


Electron density around CLA B 1024:

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

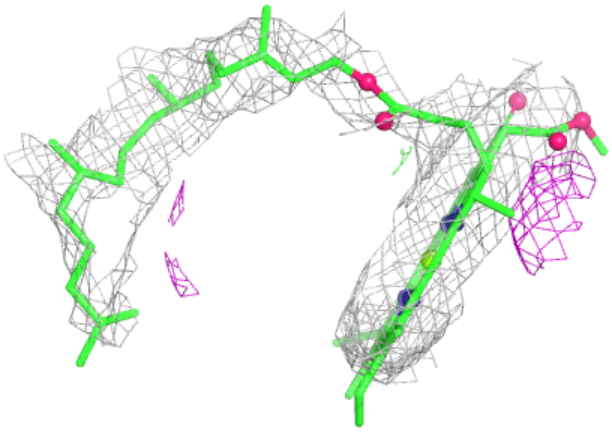


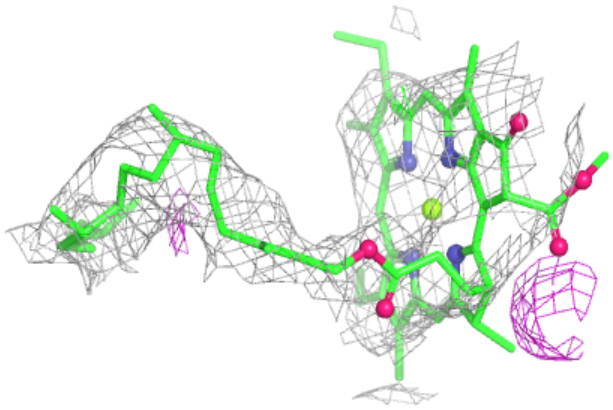


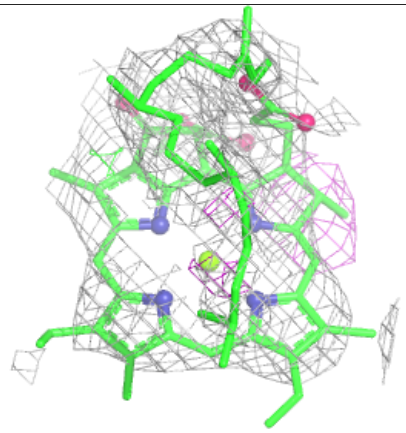


Electron density around CLA b 6019:

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

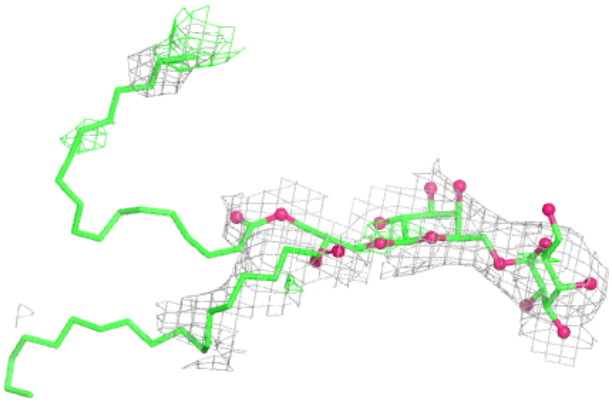


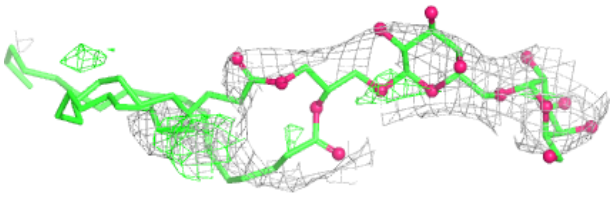


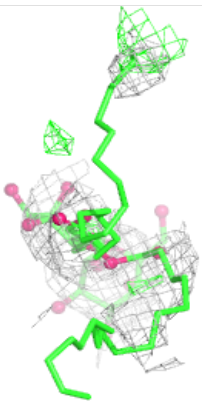


Electron density around DGD C 1055:

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

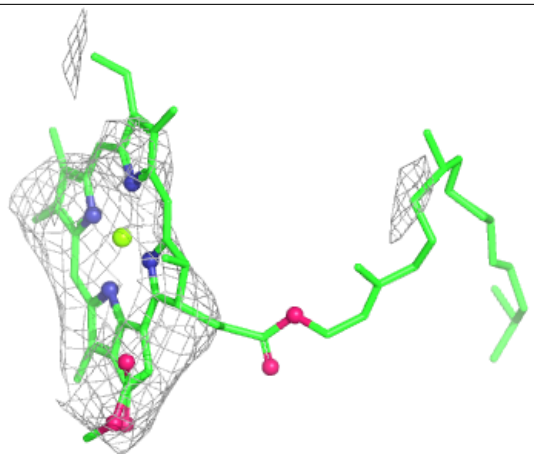


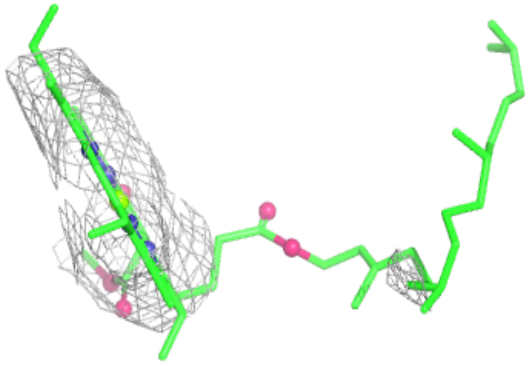


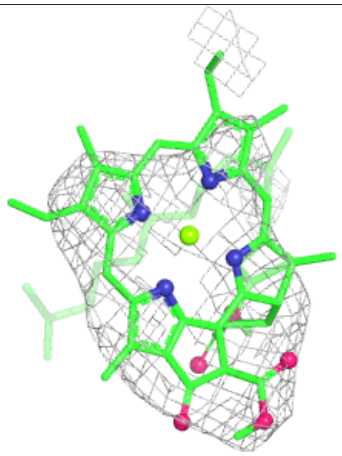


Electron density around CLA a 6007:

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

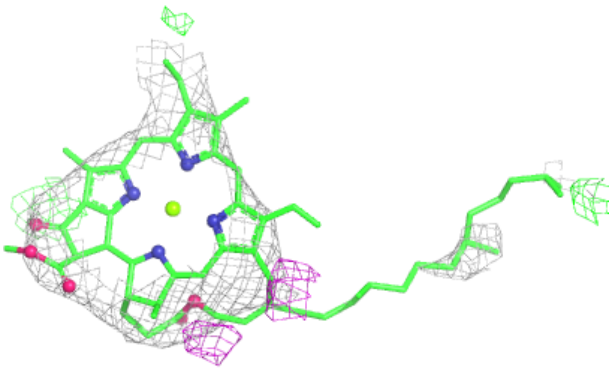


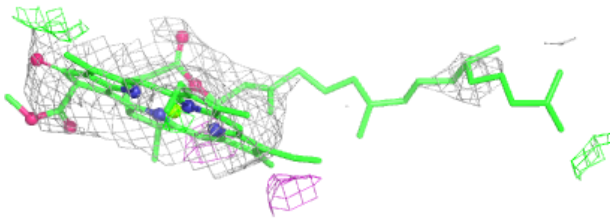


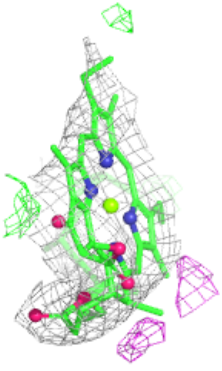


Electron density around CLA C 1025:

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

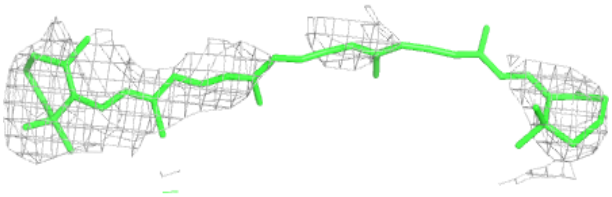


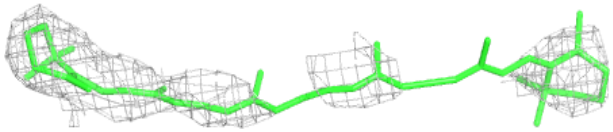


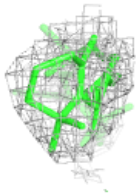


Electron density around BCR t 1046:

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



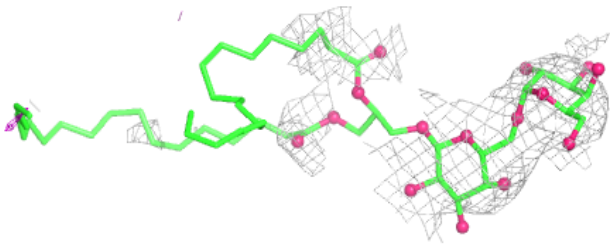


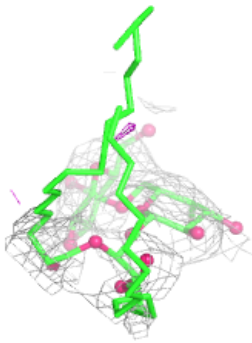


Electron density around DGD B 1058:

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

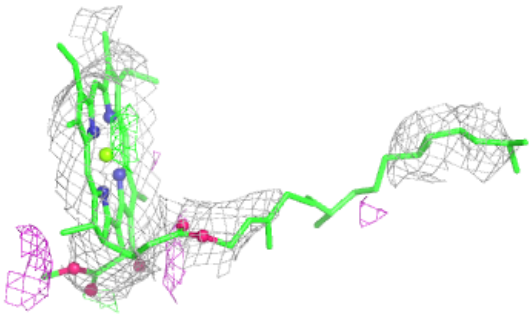


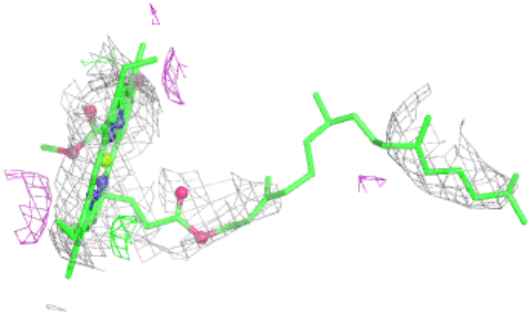


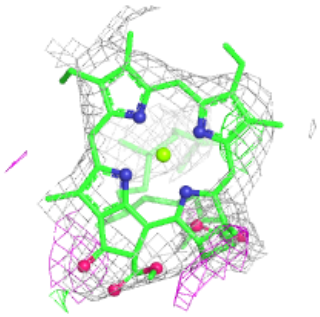


Electron density around CLA C 1032:

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



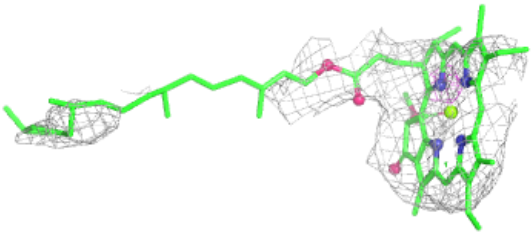


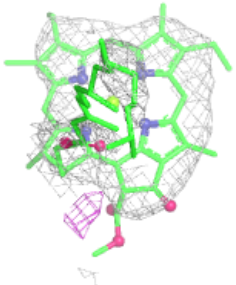


Electron density around CLA b 6012:

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

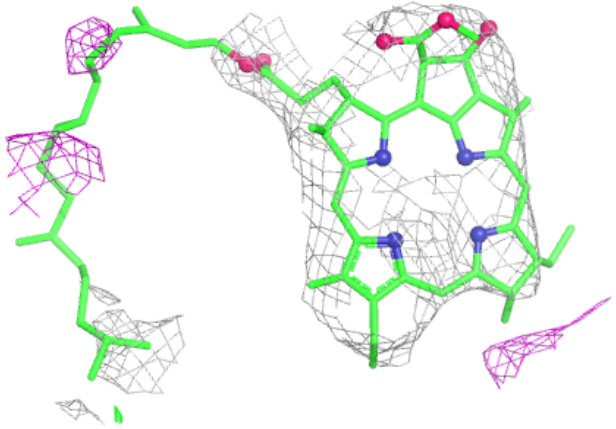


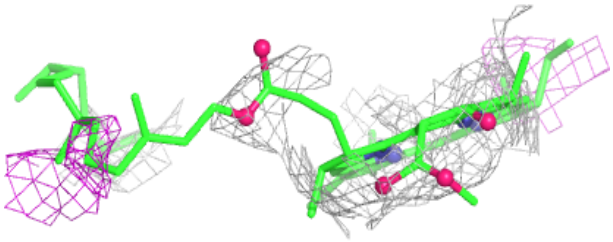




Electron density around PHO a 6038:

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



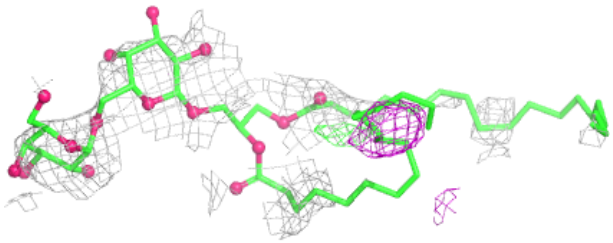


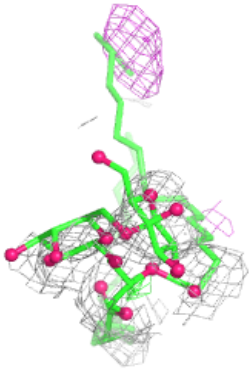


Electron density around DGD b 6058:

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

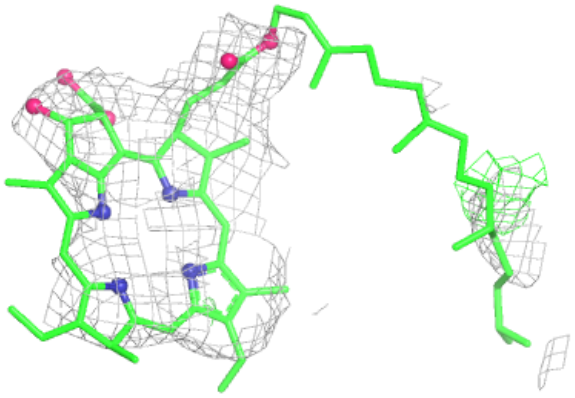


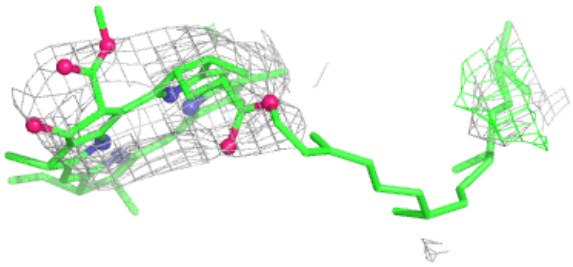


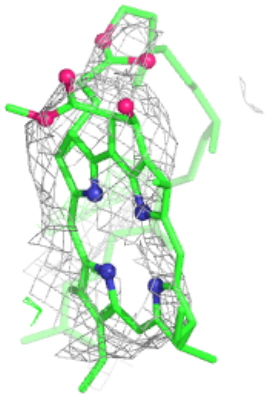


Electron density around PHO d 6039:

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

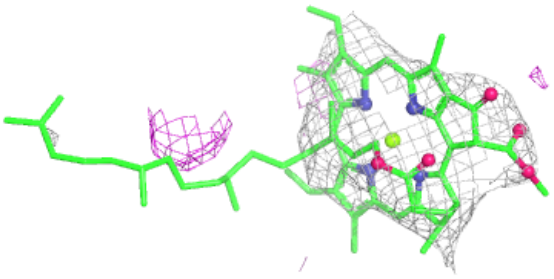


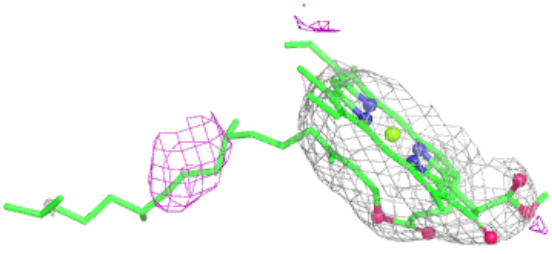


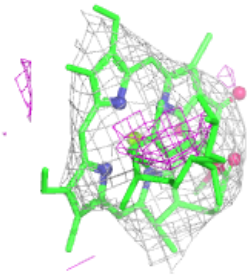


Electron density around CLA C 1029:

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

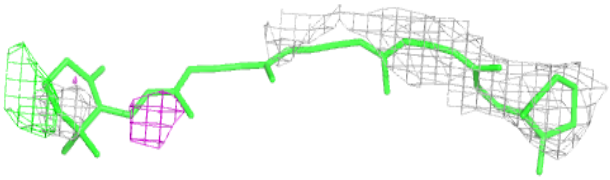


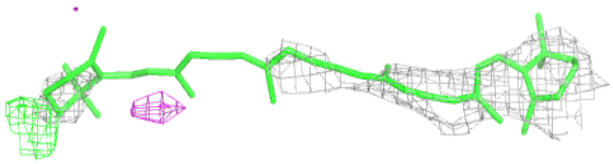


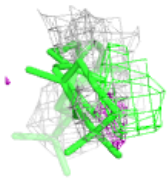


Electron density around BCR C 1052:

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

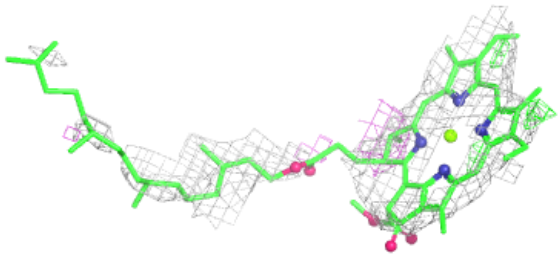


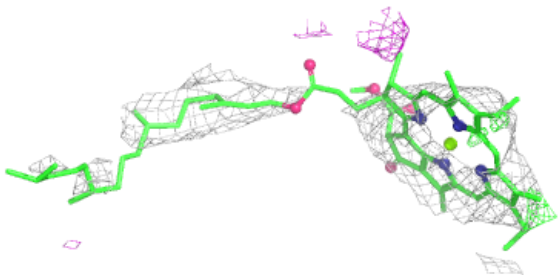


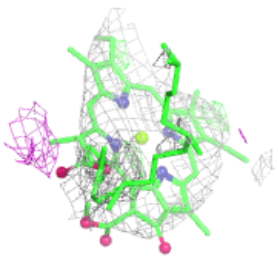


Electron density around CLA a 6003:

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

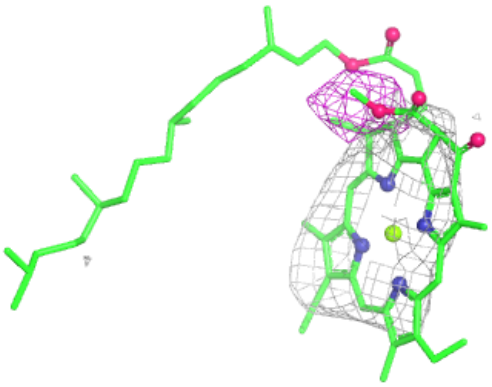


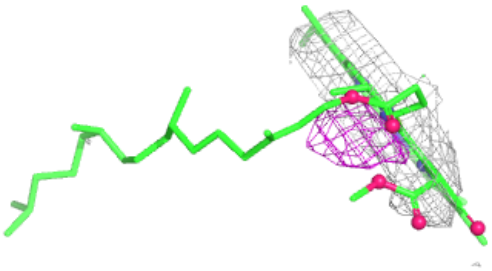


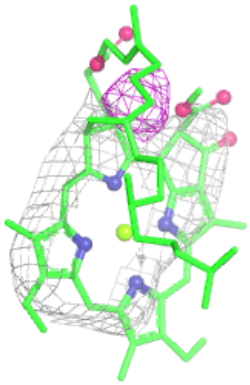


Electron density around CLA c 6031:

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

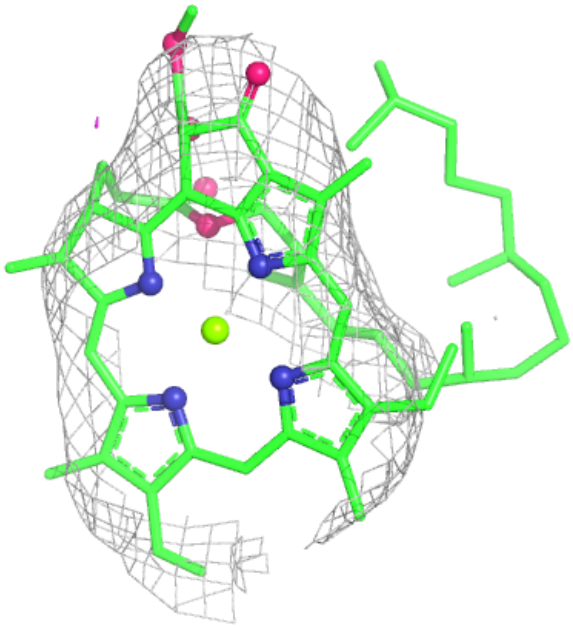


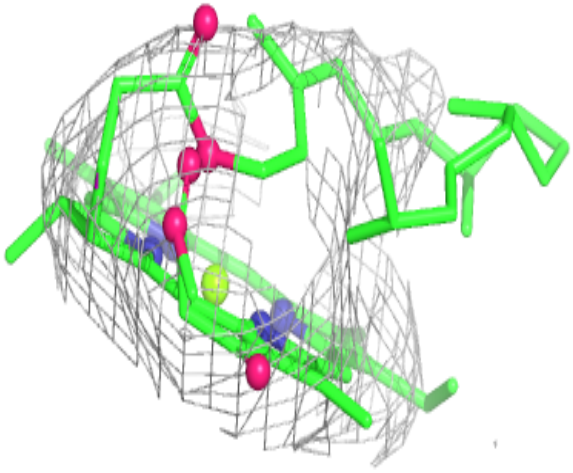


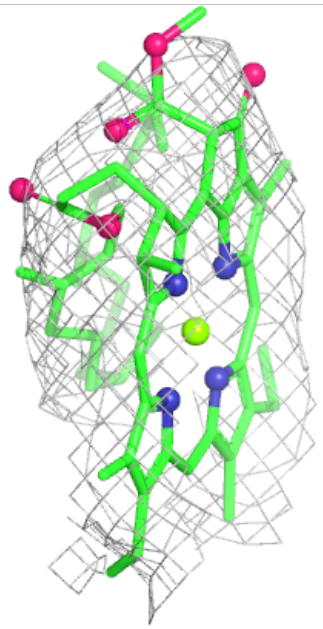


Electron density around CLA b 6022:

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

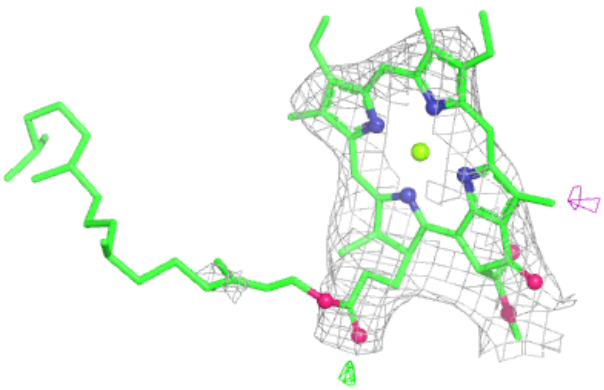


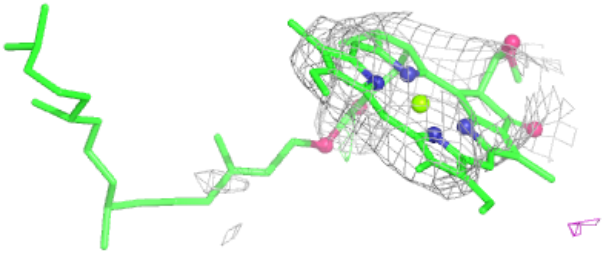


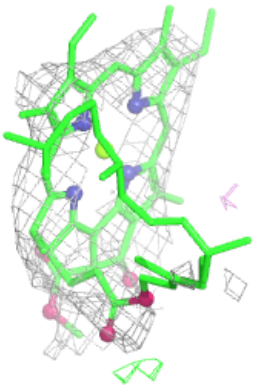


Electron density around CLA D 1008:

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

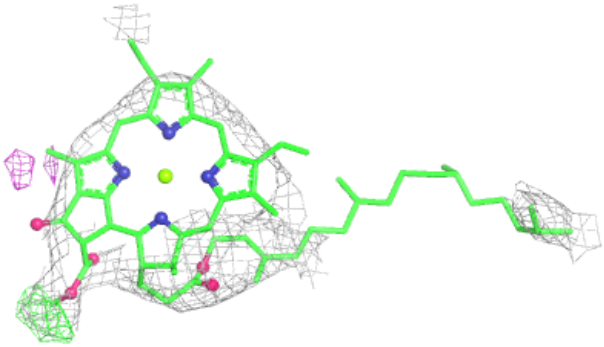


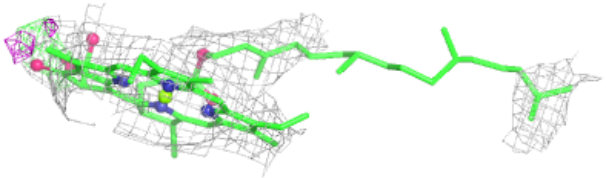


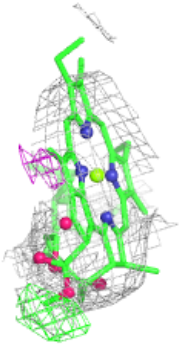


Electron density around CLA B 1011:

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

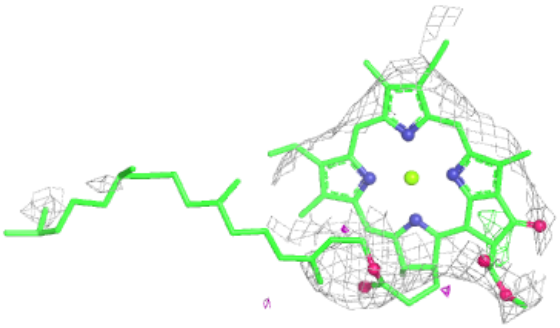


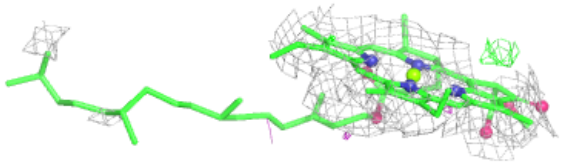


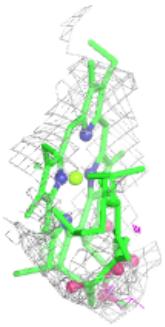


Electron density around CLA b 6011:

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

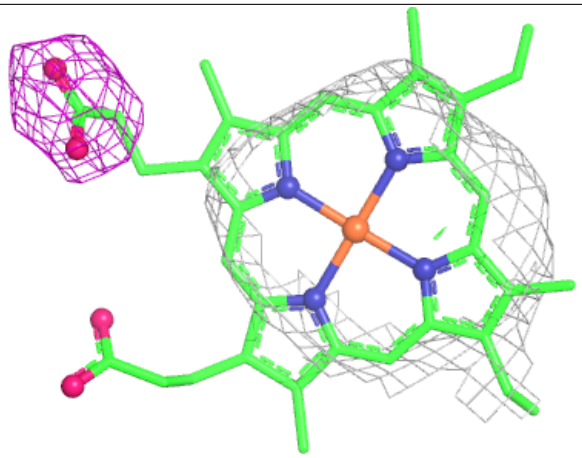


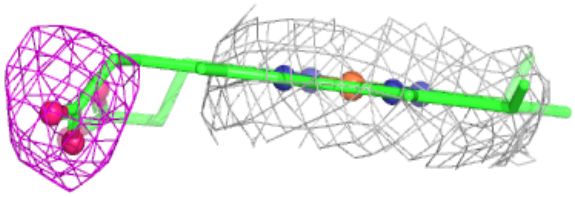


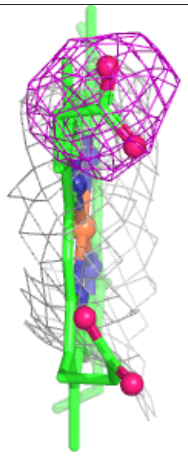


Electron density around HEM f 6040:

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

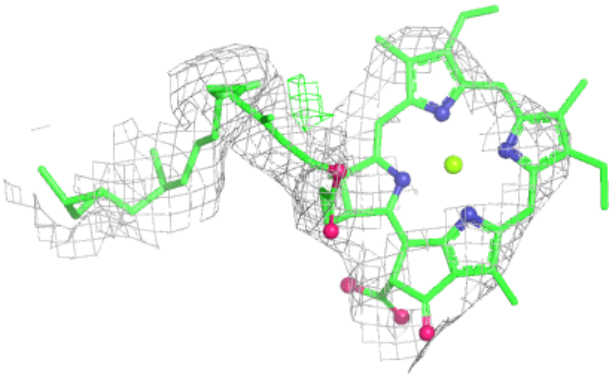


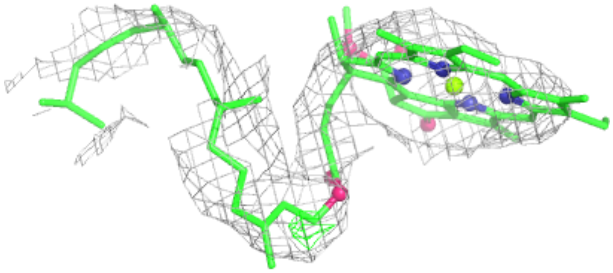




Electron density around CLA a 6006:

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

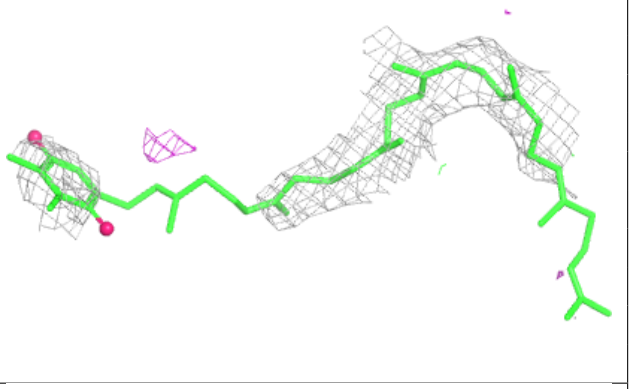


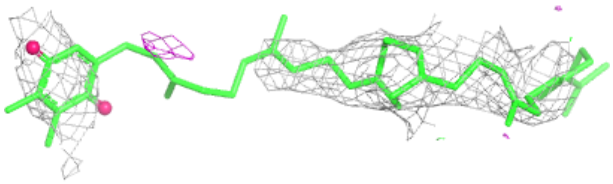


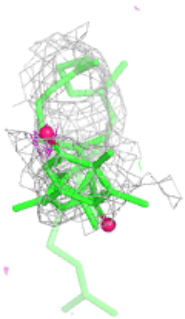


Electron density around PQ9 D 1042:

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

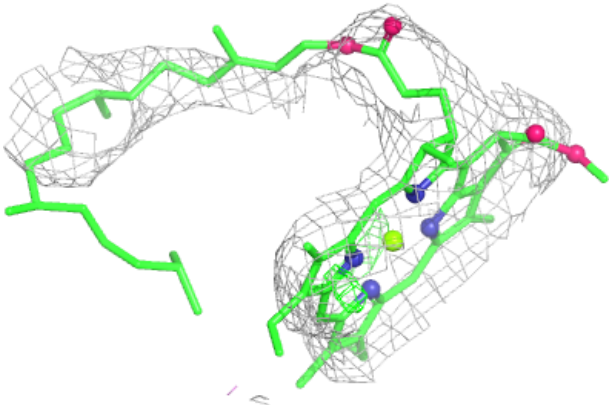


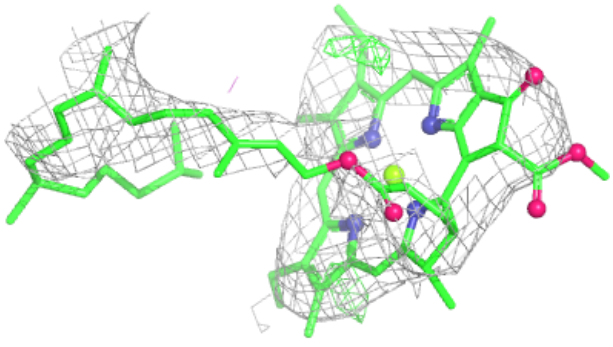




Electron density around CLA c 6028:

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

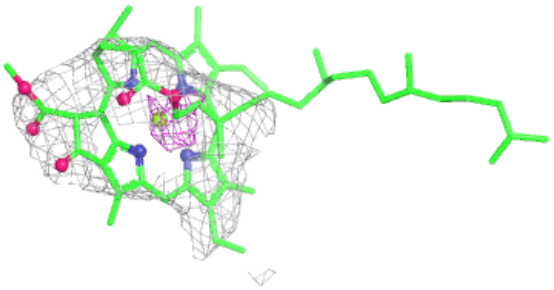


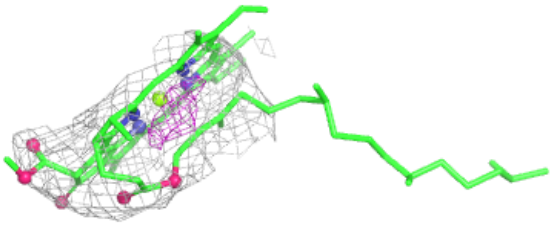


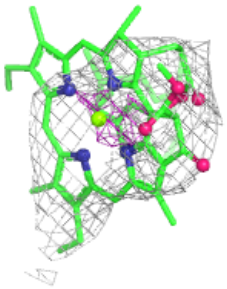


Electron density around CLA c 6029:

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

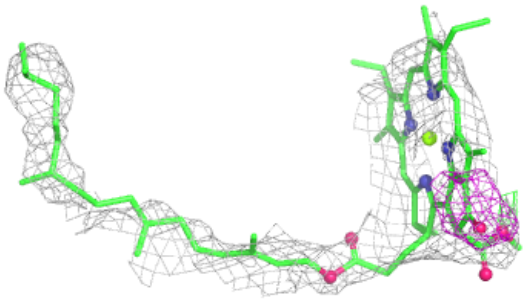


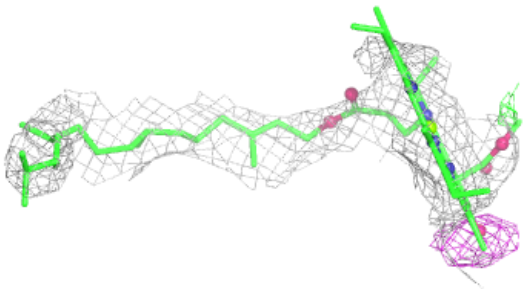


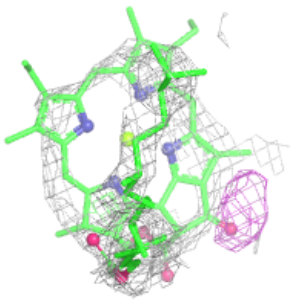


Electron density around CLA h 6017:

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

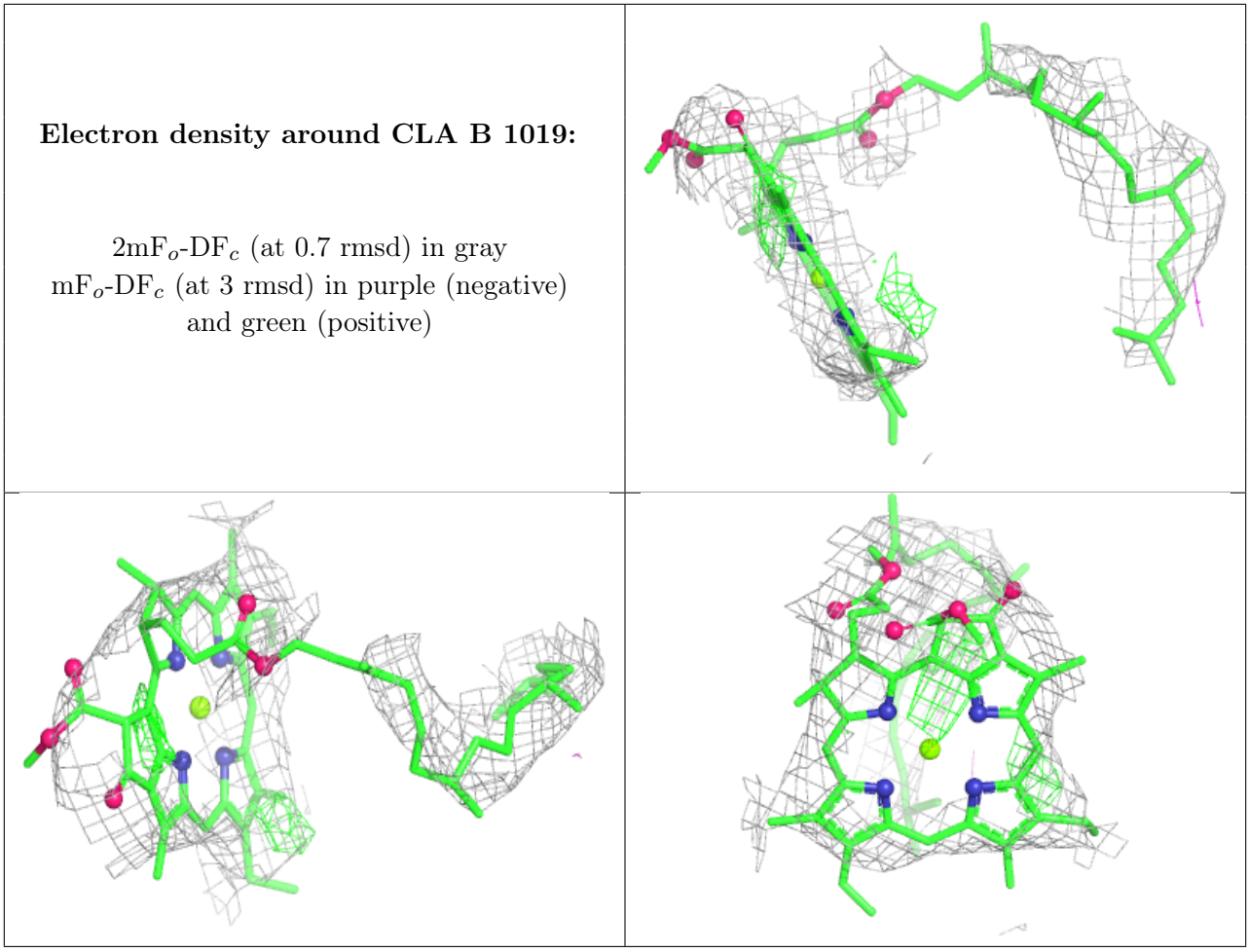






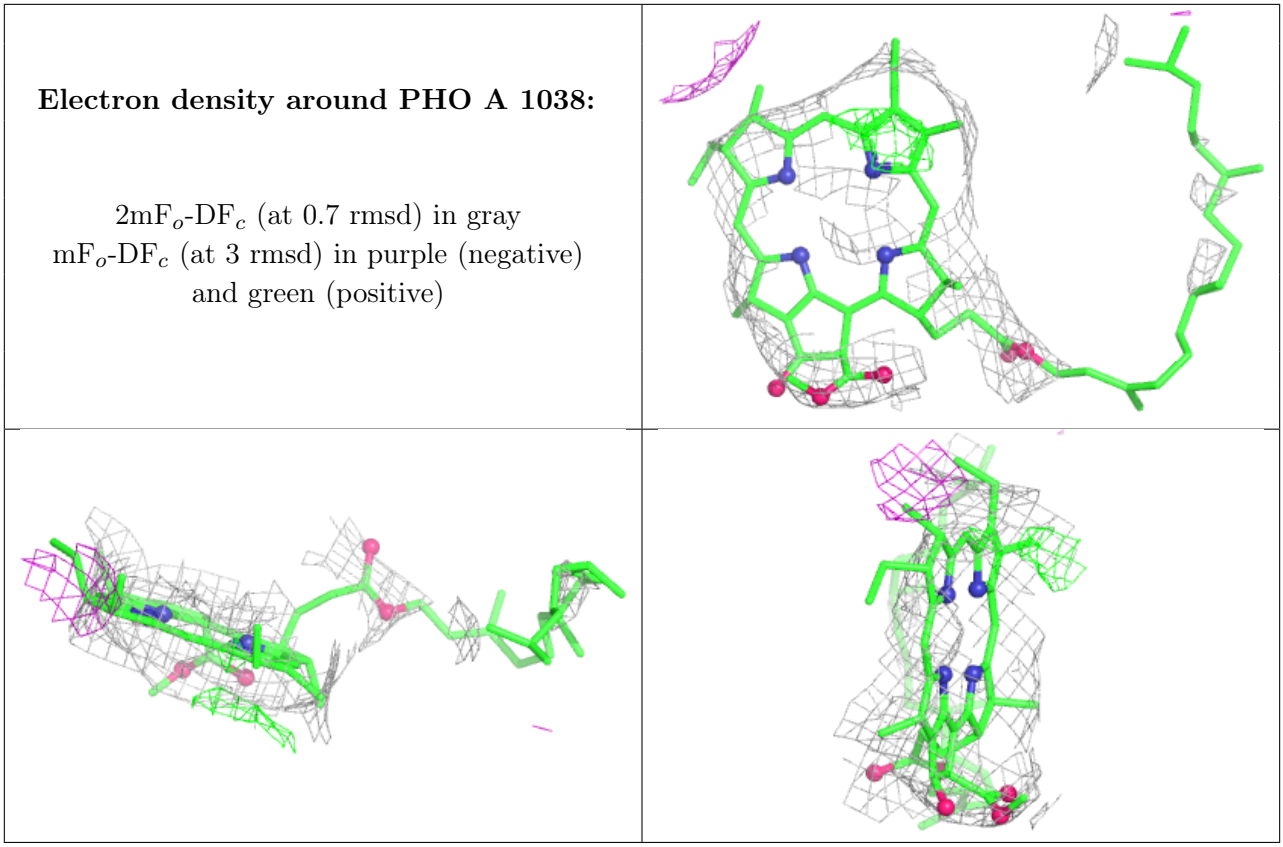
Electron density around CLA B 1019:

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



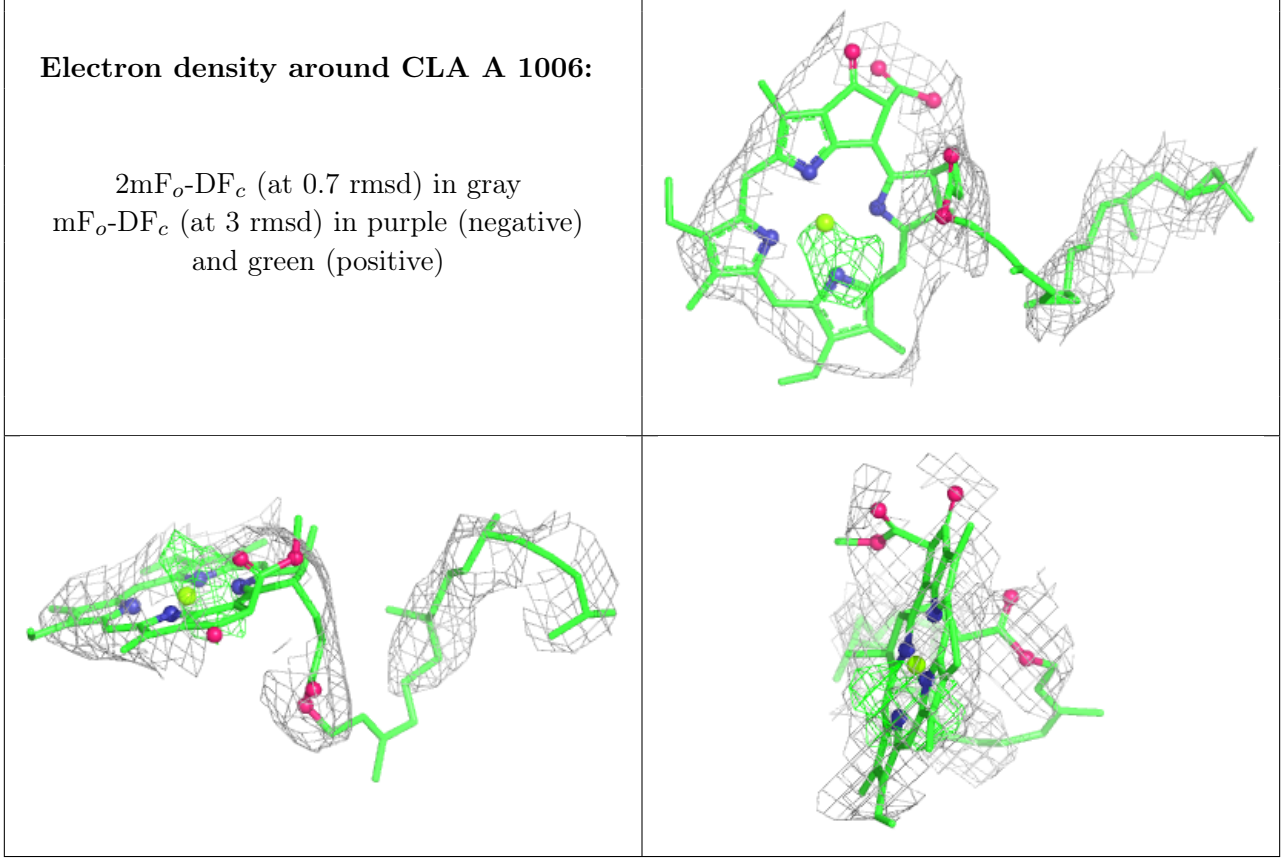
Electron density around PHO A 1038:

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



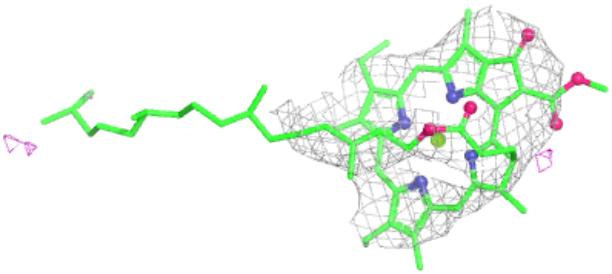
Electron density around CLA A 1006:

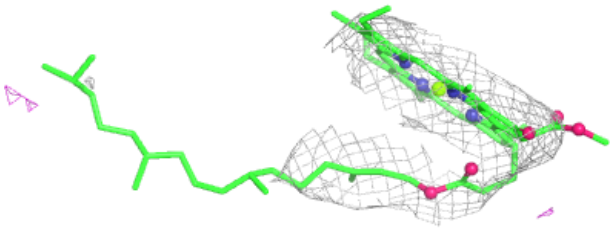
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

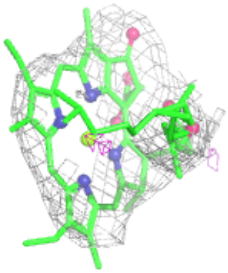


Electron density around CLA b 6016:

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

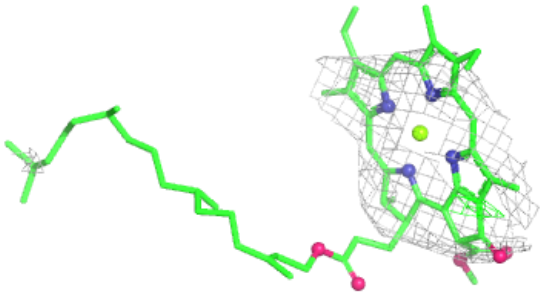


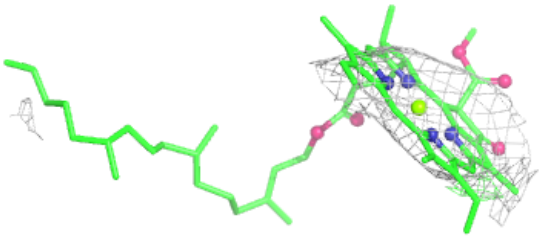


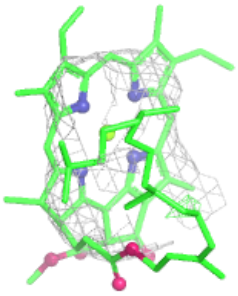


Electron density around CLA C 1035:

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

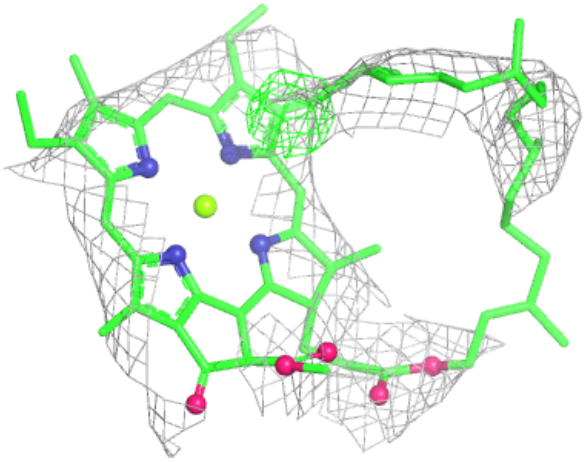


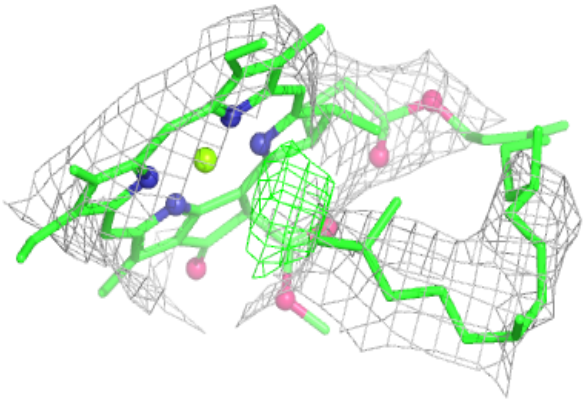


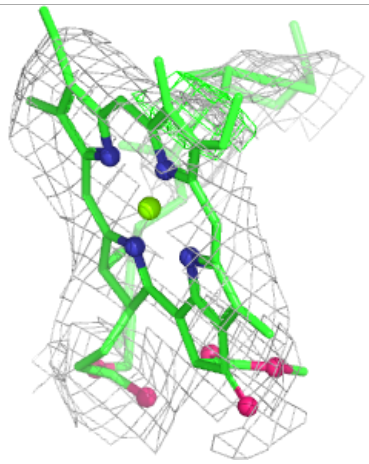


Electron density around CLA B 1023:

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

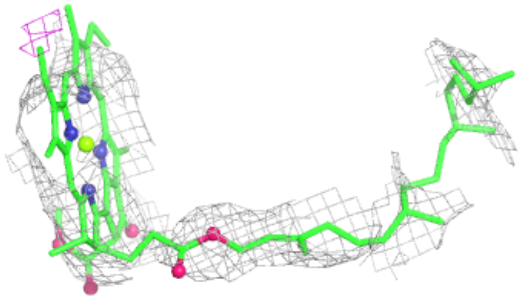


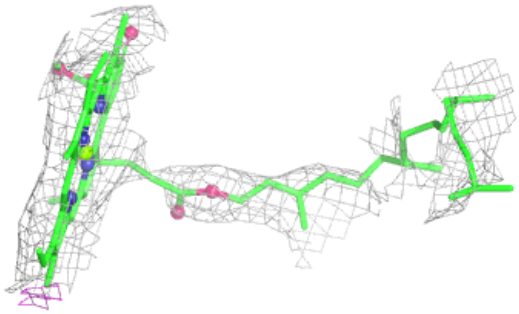


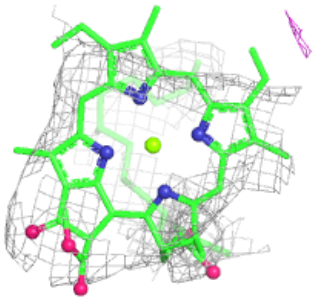


Electron density around CLA c 6030:

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

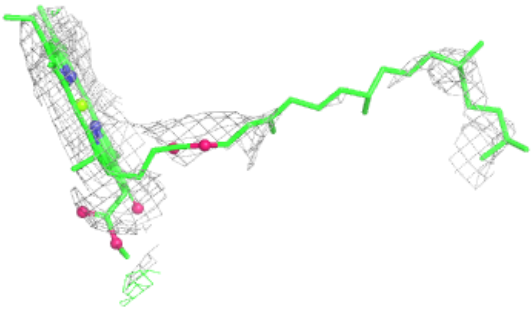


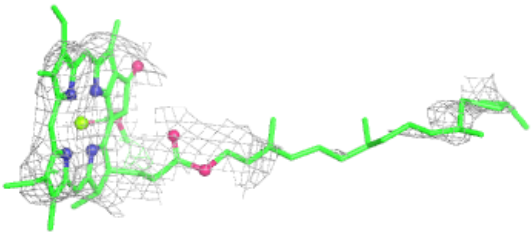


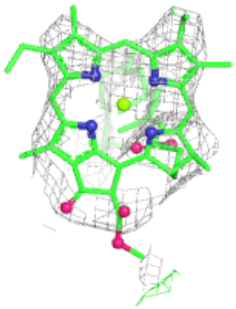


Electron density around CLA B 1012:

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

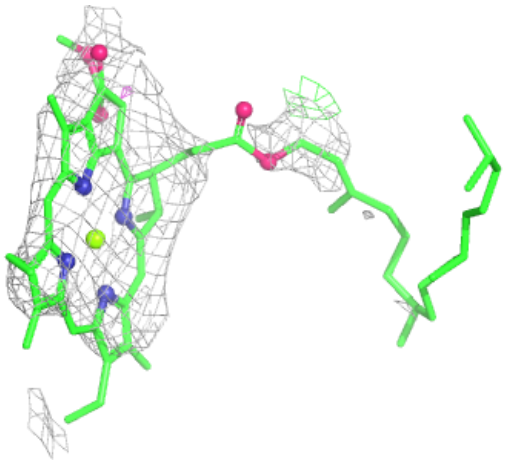


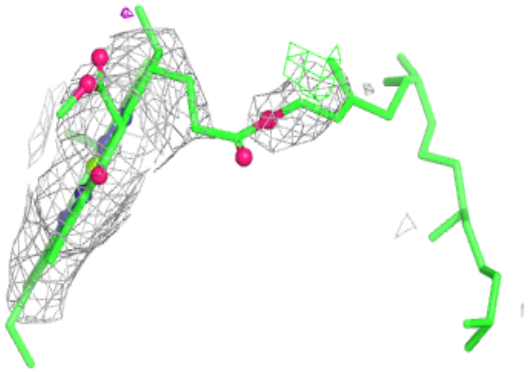


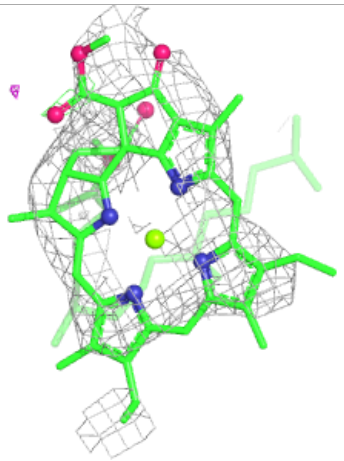


Electron density around CLA A 1007:

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

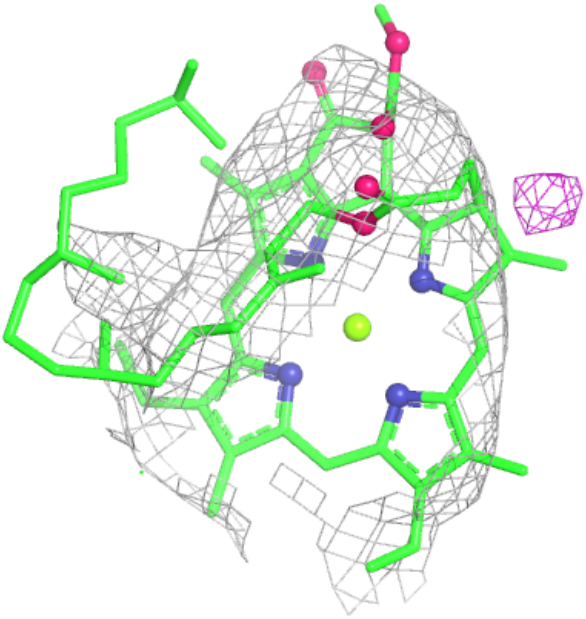


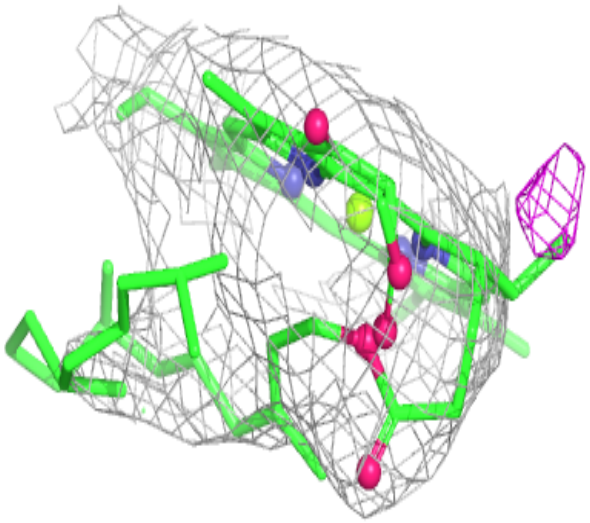


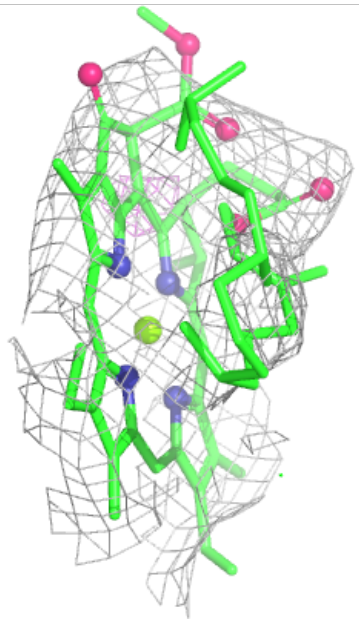


Electron density around CLA B 1022:

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

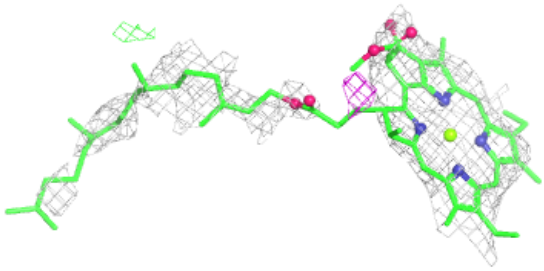


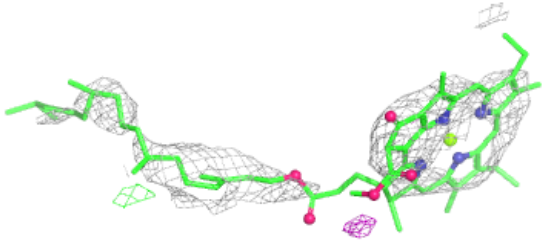


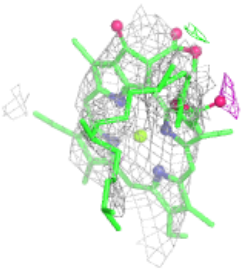


Electron density around CLA A 1003:

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

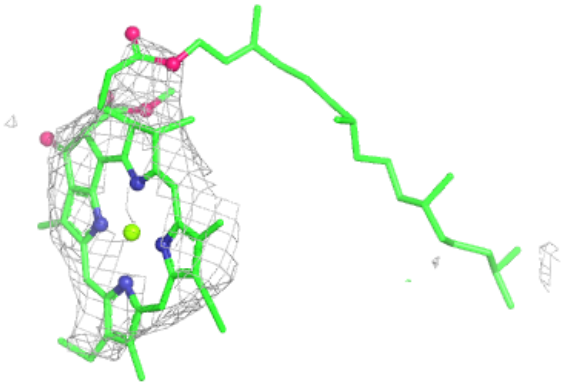


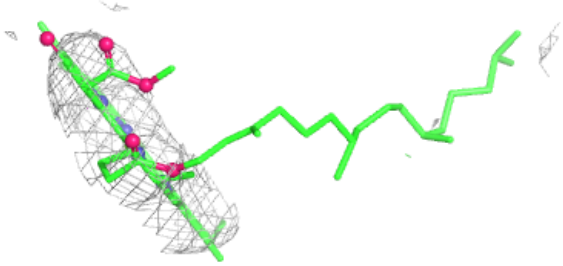


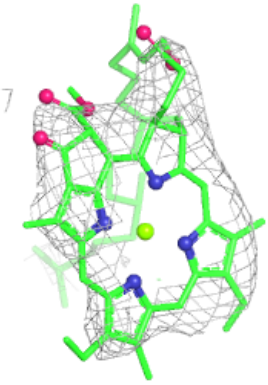


Electron density around CLA C 1031:

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

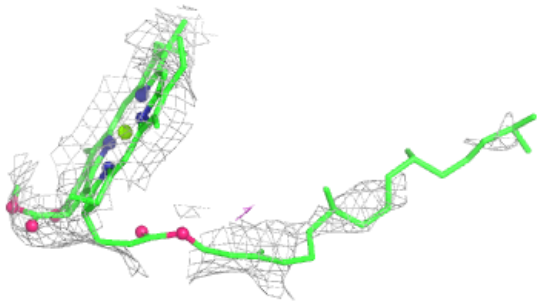


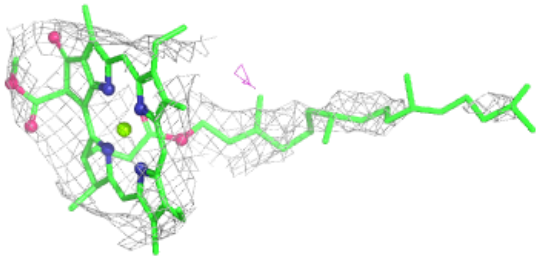


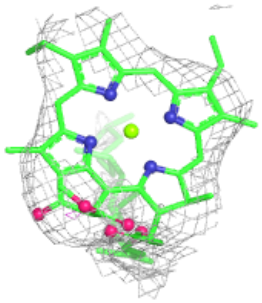


Electron density around CLA B 1015:

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

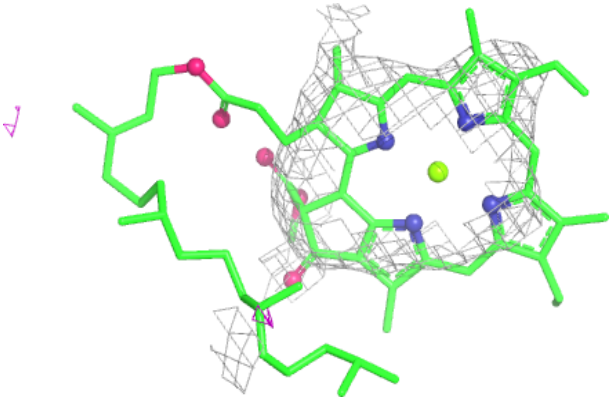


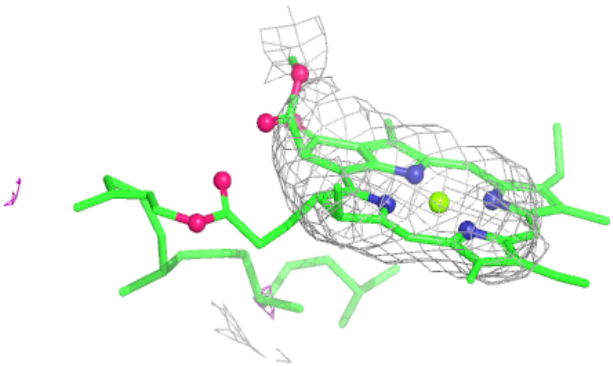




Electron density around CLA c 6033:

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

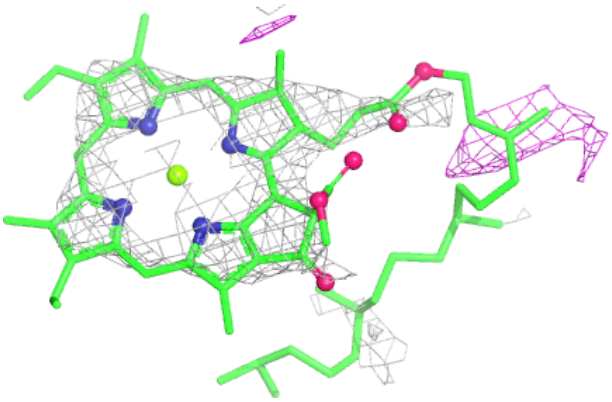


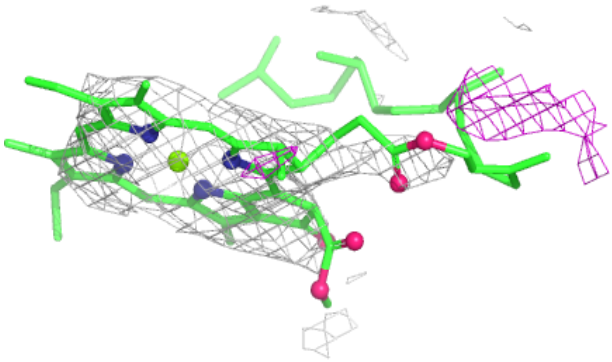


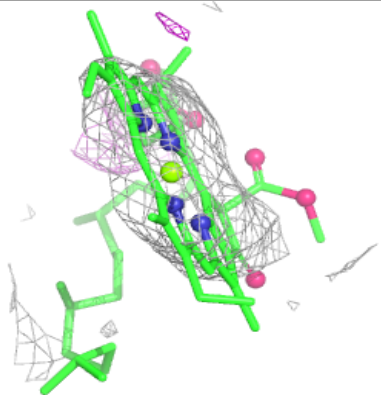


Electron density around CLA C 1033:

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

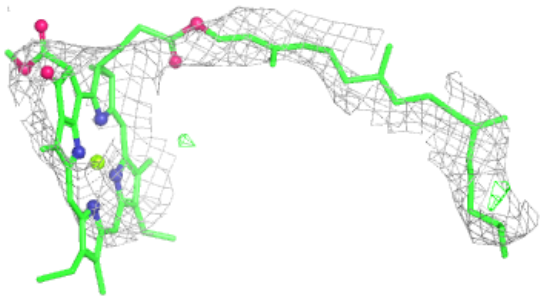


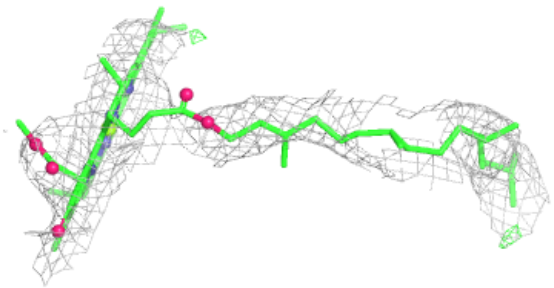


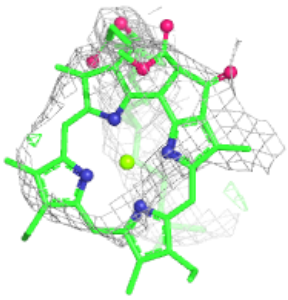


Electron density around CLA H 1017:

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

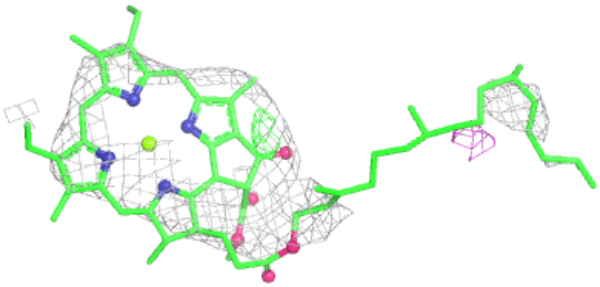


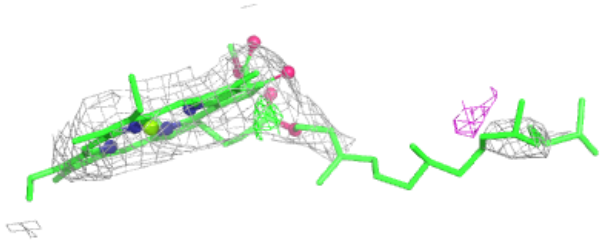


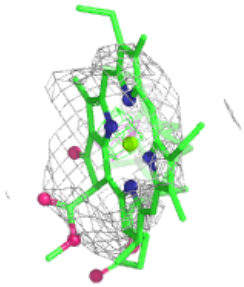


Electron density around CLA B 1010:

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

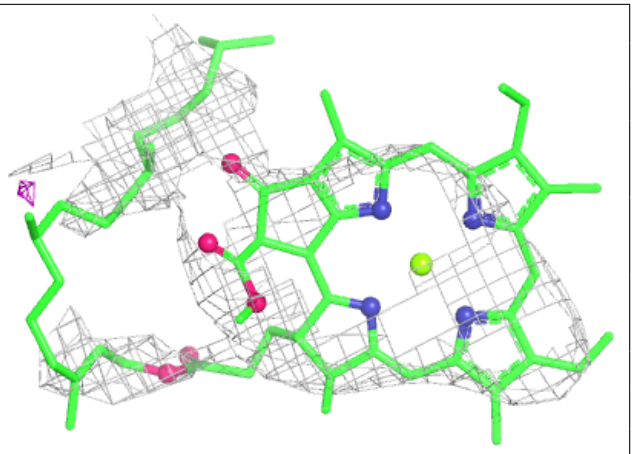


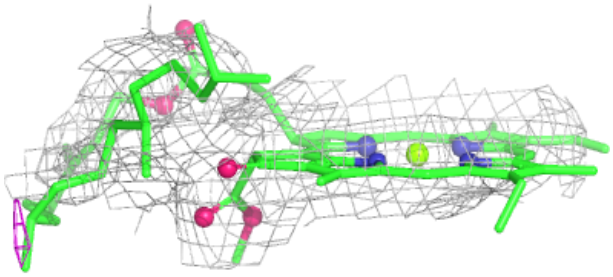




Electron density around CLA b 6018:

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

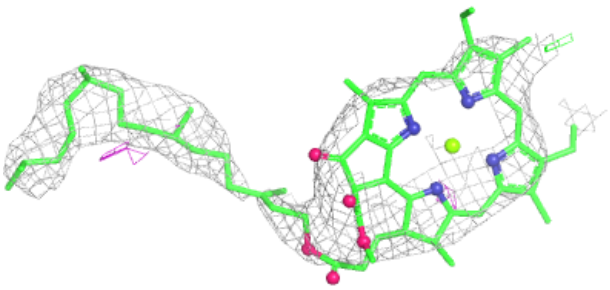


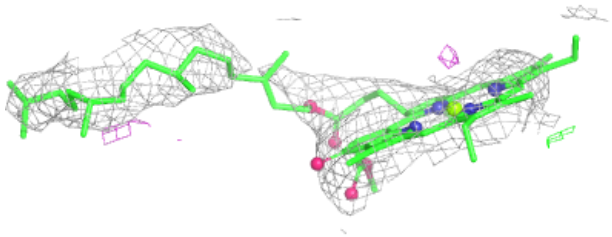


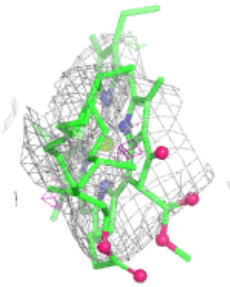


Electron density around CLA b 6010:

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

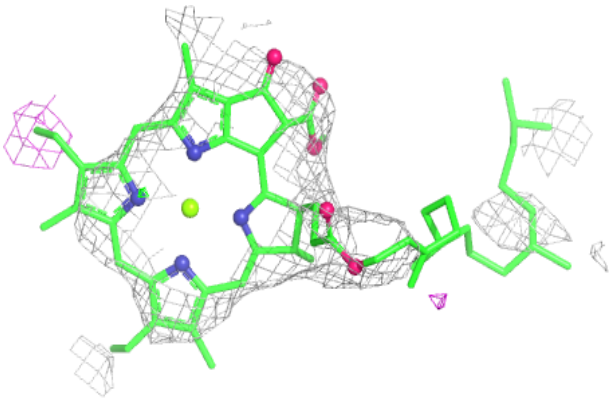


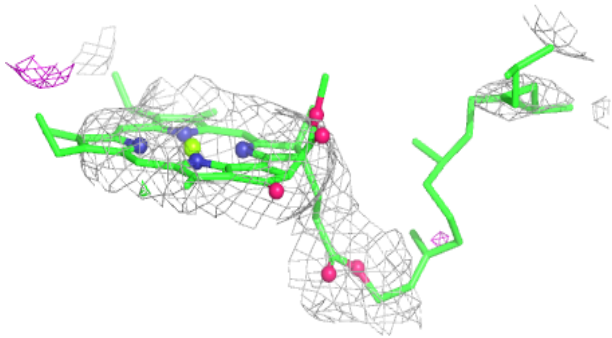


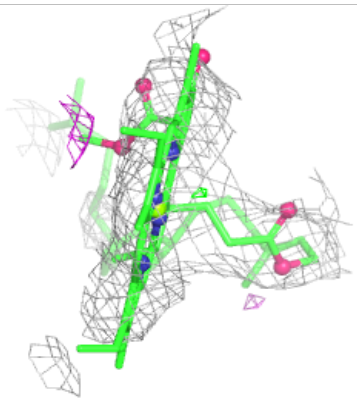


Electron density around CLA b 6020:

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

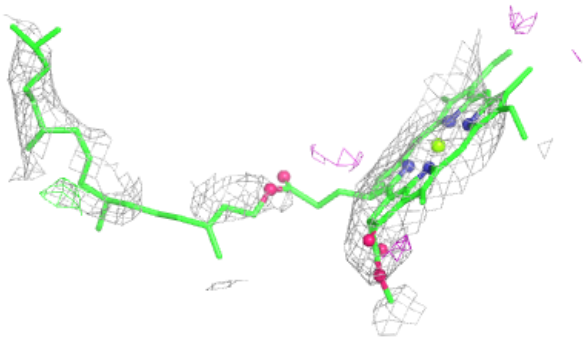


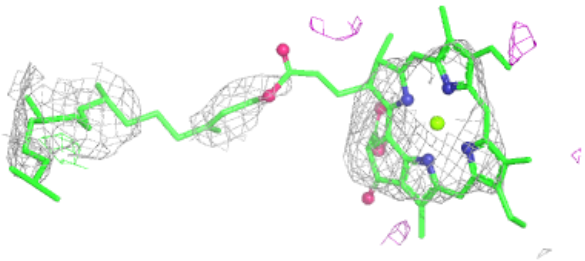




Electron density around CLA D 1004:

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

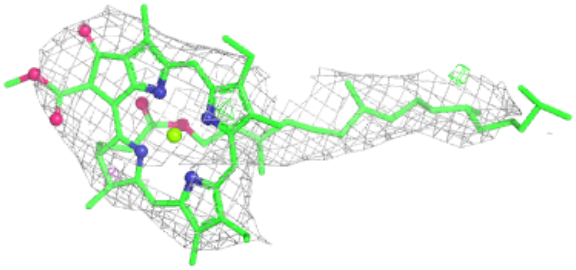


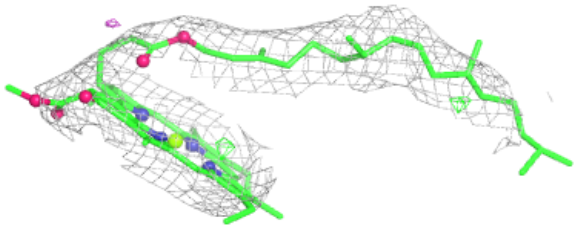


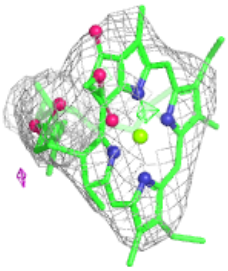


Electron density around CLA B 1016:

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

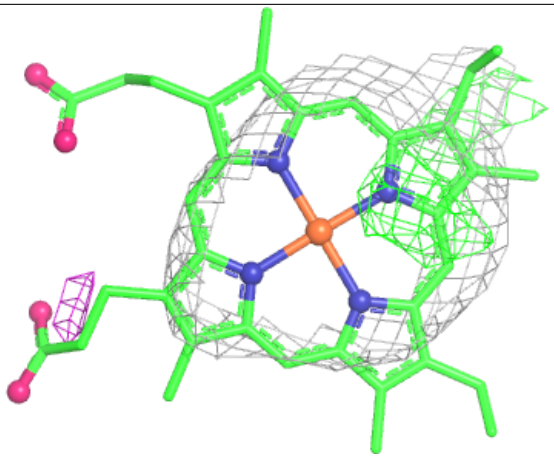


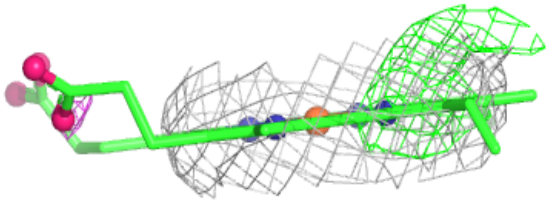


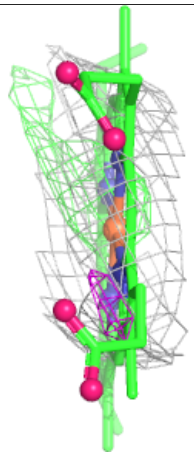


Electron density around HEM F 1040:

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

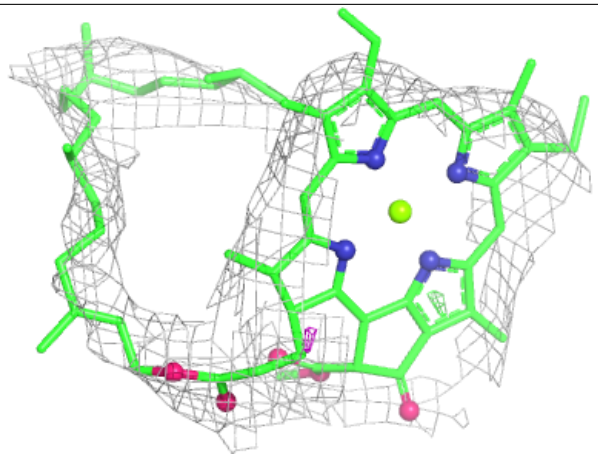


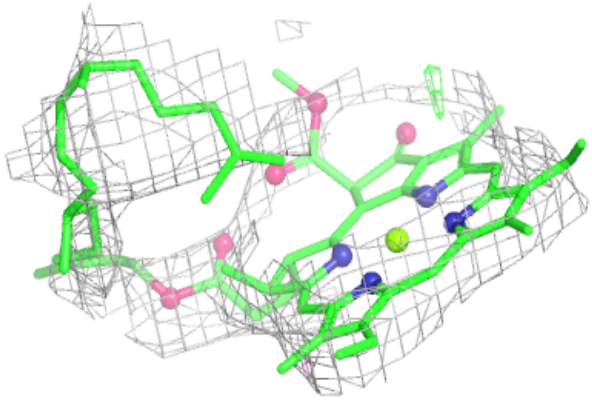




Electron density around CLA b 6023:

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

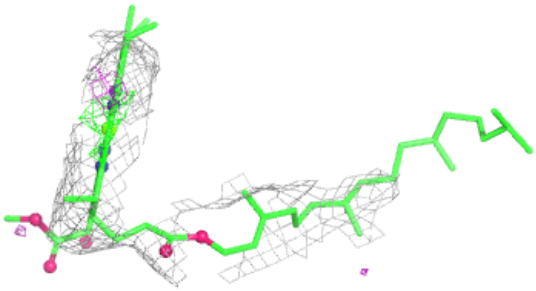


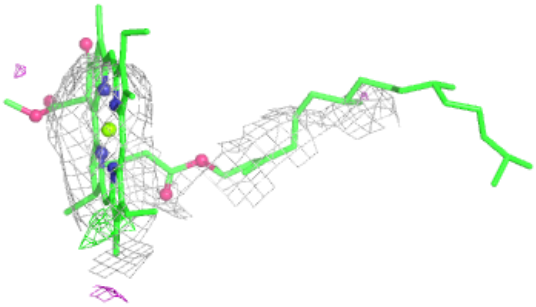


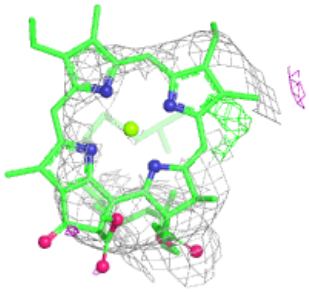


Electron density around CLA b 6013:

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

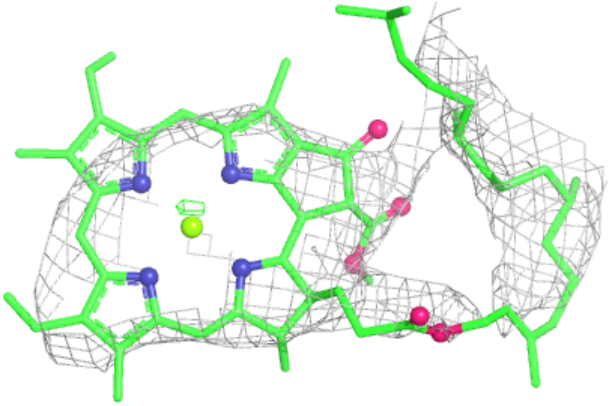


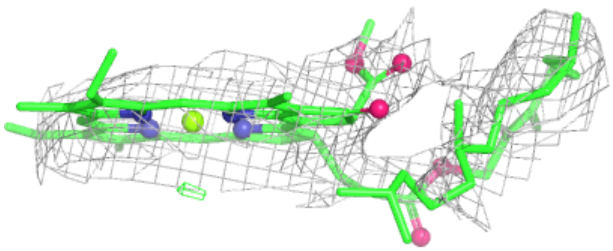


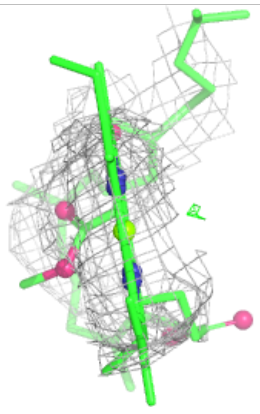


Electron density around CLA B 1018:

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

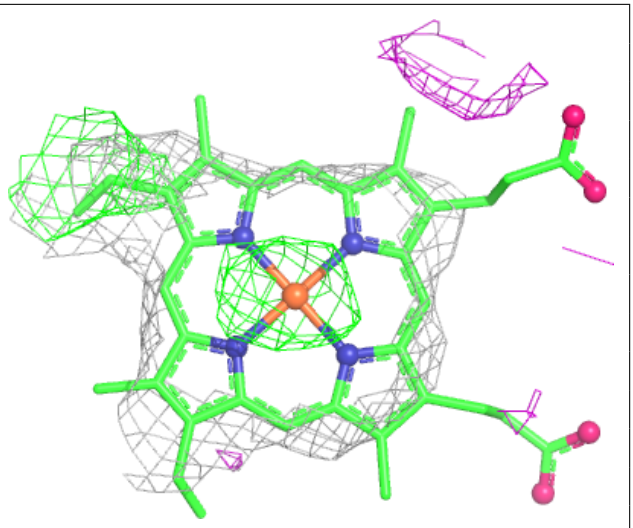


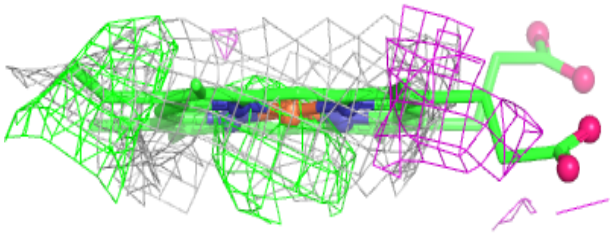


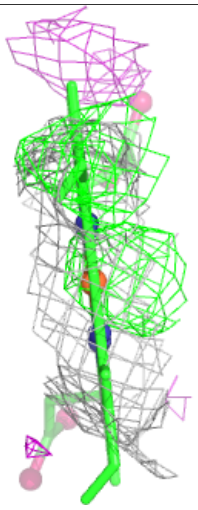


Electron density around HEM V 1041:

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





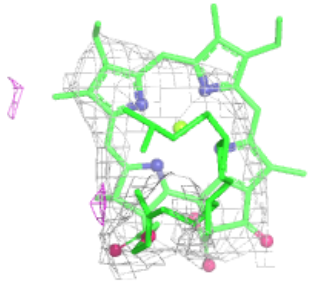


Electron density around CLA B 1013:

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

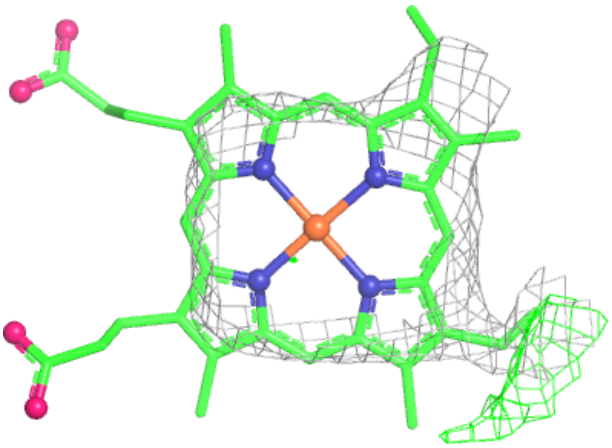


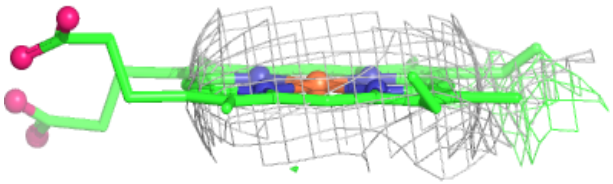


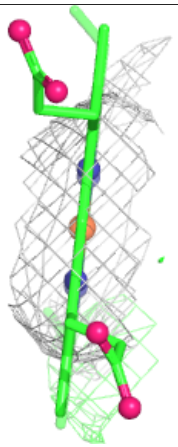


Electron density around HEM v 6041:

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

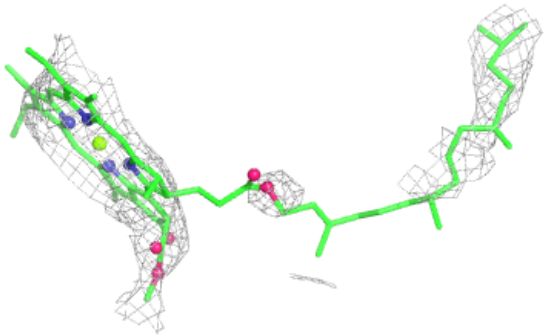


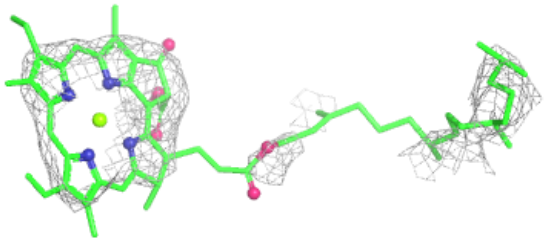


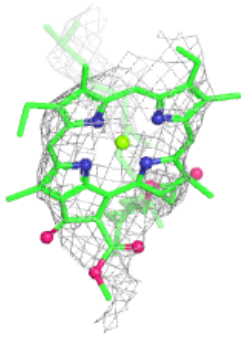


Electron density around CLA d 6004:

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

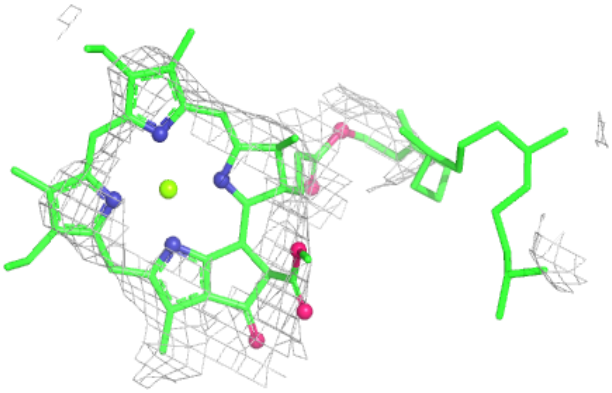


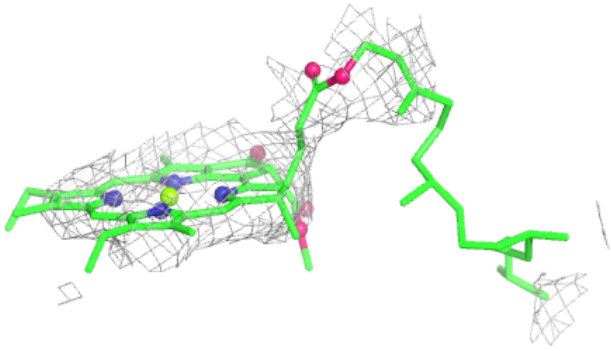


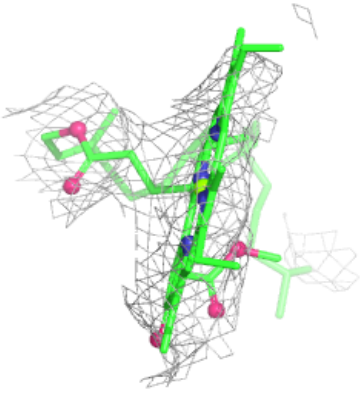


Electron density around CLA B 1020:

$2mF_o$-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 (i)

There are no such residues in this entry.