



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 01:27 PM UTC

PDB ID : 3W9I / pdb_00003w9i
Title : Structural basis for the inhibition of bacterial multidrug exporters
Authors : Sakurai, K.; Nakashima, R.; Hayashi, K.; Yamaguchi, A.
Deposited on : 2013-04-04
Resolution : 2.71 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 ⓘ 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 ⓘ](#)) 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 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

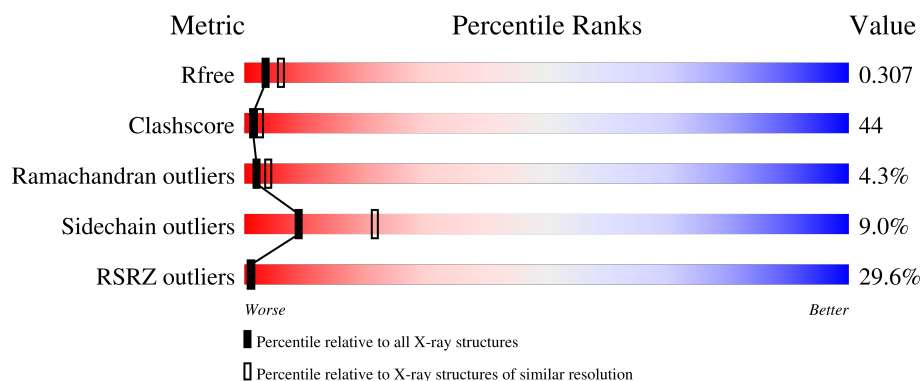
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.71 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	4348 (2.74-2.70)
Clashscore	190562	4665 (2.74-2.70)
Ramachandran outliers	187476	4584 (2.74-2.70)
Sidechain outliers	187428	4585 (2.74-2.70)
RSRZ outliers	180081	4348 (2.74-2.70)

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 $\leq 5\%$. 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	1046	
1	B	1046	
1	C	1046	
1	D	1046	
1	E	1046	

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Mol	Chain	Length	Quality of chain
1	F	1046	

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
2	LMT	E	2001	-	-	X	-
2	LMT	E	2002	-	-	X	-

2 Entry composition ⓘ

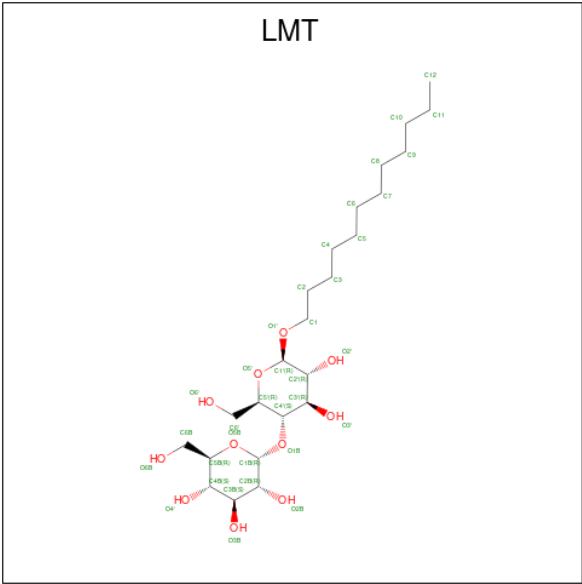
There are 3 unique types of molecules in this entry. The entry contains 47305 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Multidrug resistance protein MexB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1017	Total	C	N	O	S	0	0	0
			7718	4972	1279	1427	40			
1	B	1030	Total	C	N	O	S	0	0	0
			7812	5027	1298	1447	40			
1	C	1030	Total	C	N	O	S	0	0	0
			7812	5027	1298	1447	40			
1	D	1020	Total	C	N	O	S	0	0	0
			7744	4990	1283	1431	40			
1	E	1030	Total	C	N	O	S	0	0	0
			7812	5027	1298	1447	40			
1	F	1033	Total	C	N	O	S	0	0	0
			7840	5046	1302	1452	40			

- Molecule 2 is DODECYL-BETA-D-MALTOSIDE (CCD ID: LMT) (formula: C₂₄H₄₆O₁₁).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 35 24 11	0	0
2	A	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	B	1	Total C O 35 24 11	0	0
2	C	1	Total C O 35 24 11	0	0
2	C	1	Total C O 35 24 11	0	0
2	D	1	Total C O 35 24 11	0	0
2	D	1	Total C O 35 24 11	0	0
2	D	1	Total C O 35 24 11	0	0
2	E	1	Total C O 35 24 11	0	0
2	E	1	Total C O 35 24 11	0	0
2	E	1	Total C O 35 24 11	0	0
2	F	1	Total C O 35 24 11	0	0
2	F	1	Total C O 35 24 11	0	0

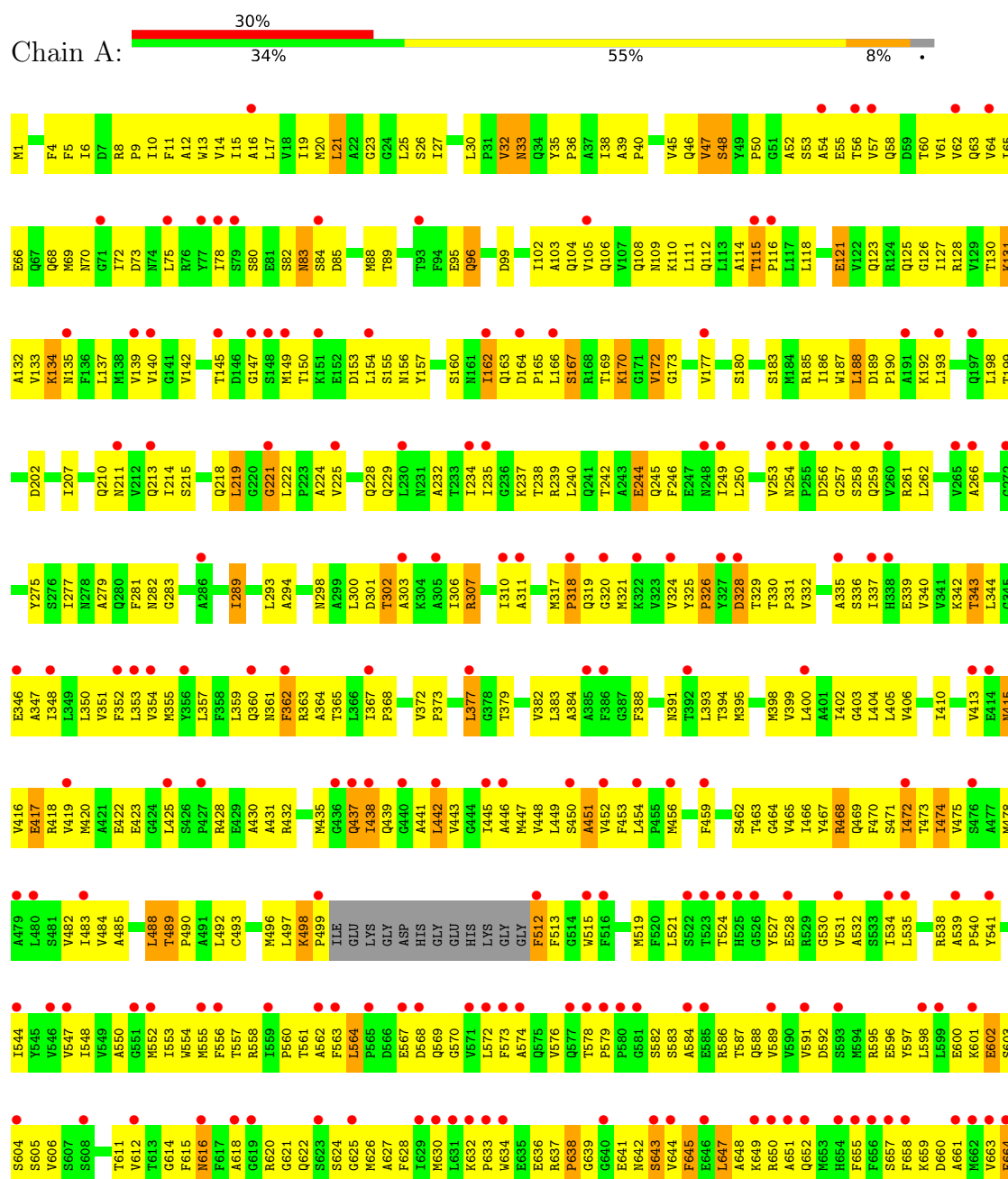
- Molecule 3 is water.

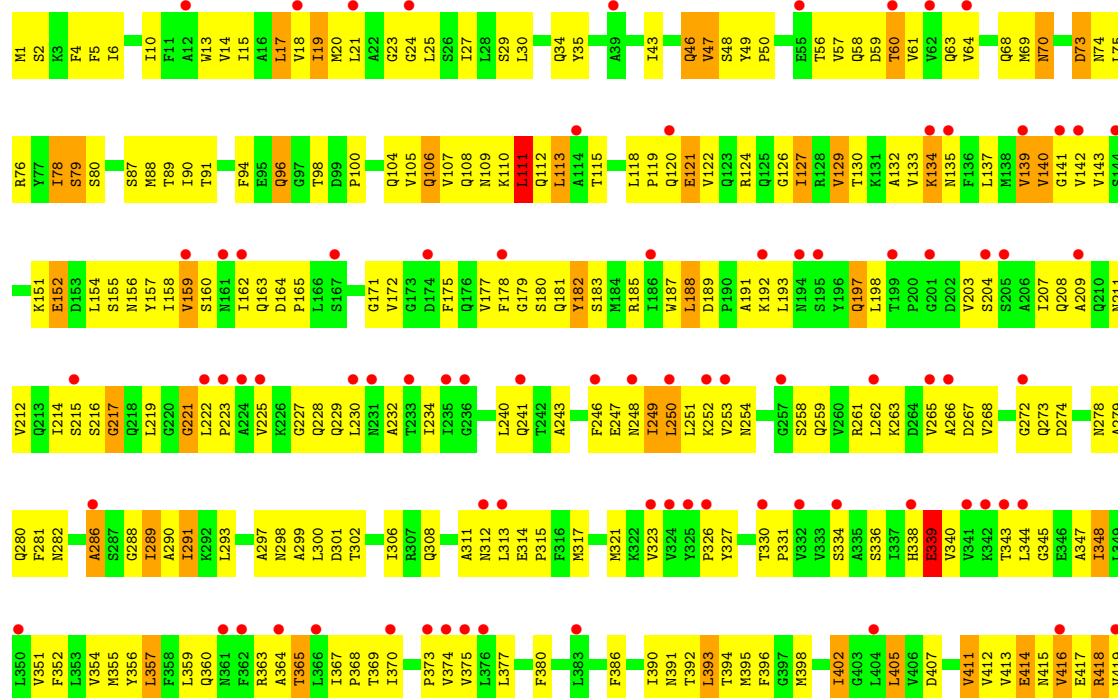
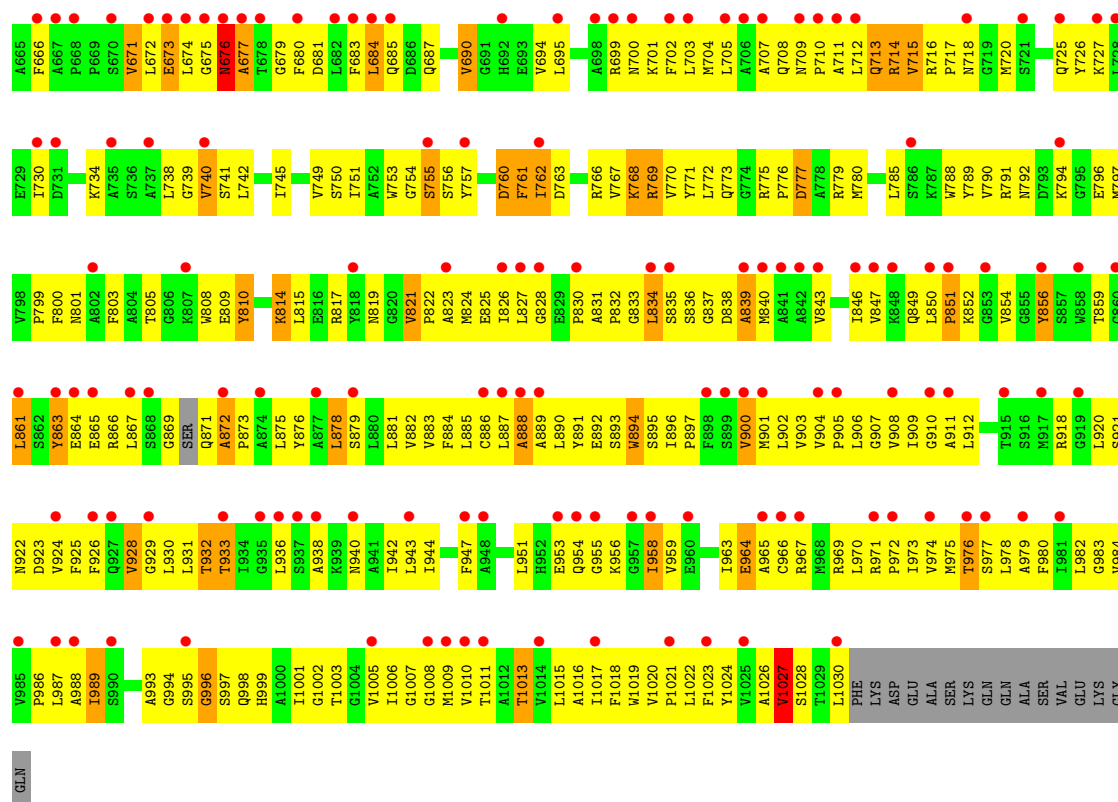
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total O 1 1	0	0
3	B	3	Total O 3 3	0	0
3	C	1	Total O 1 1	0	0
3	D	2	Total O 2 2	0	0

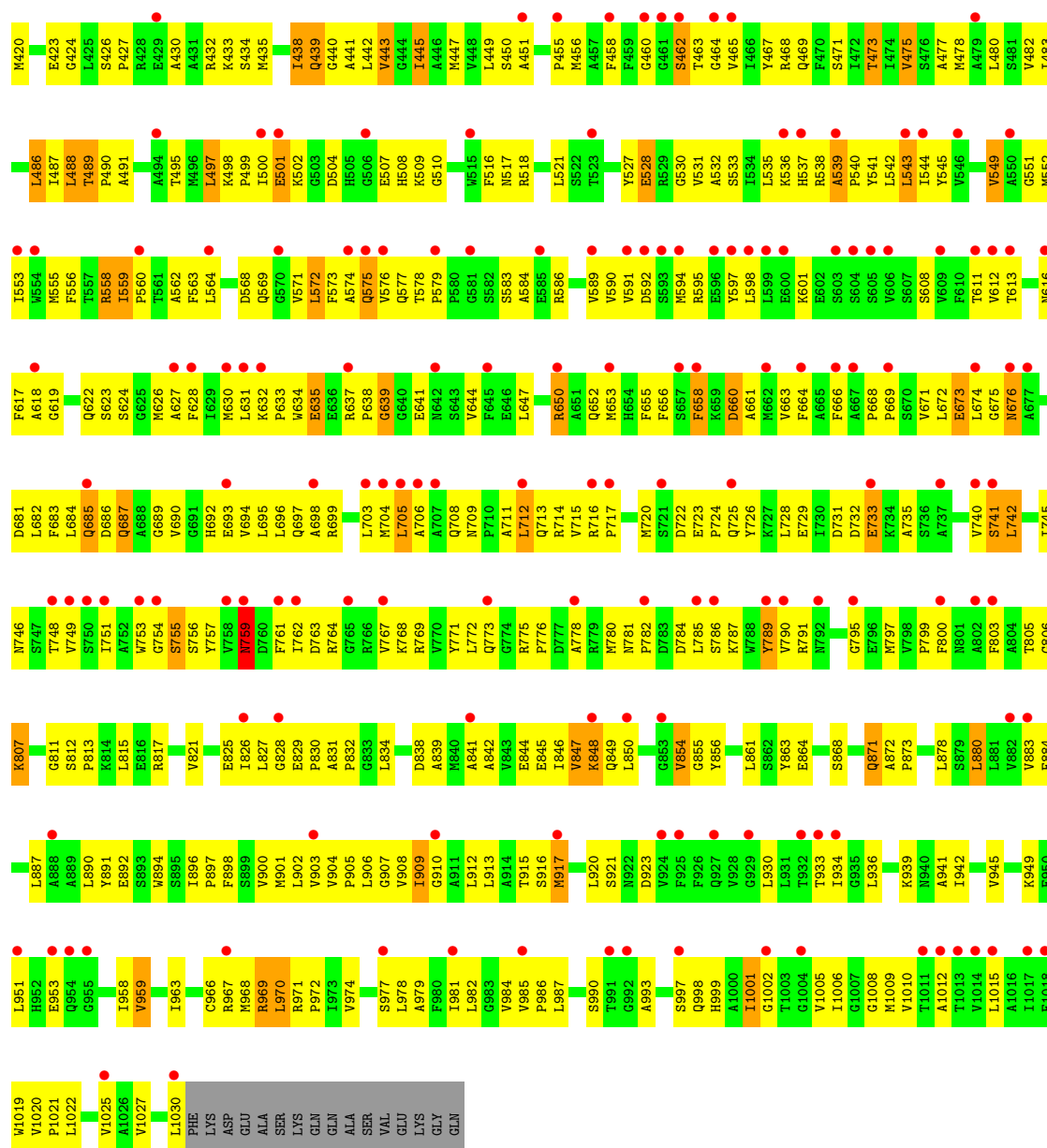
3 Residue-property plots

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.

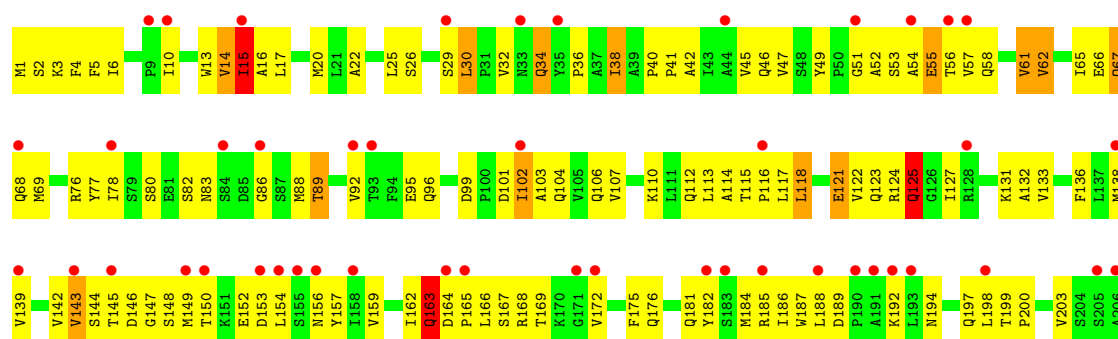
• Molecule 1: Multidrug resistance protein MexB

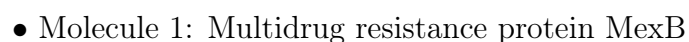


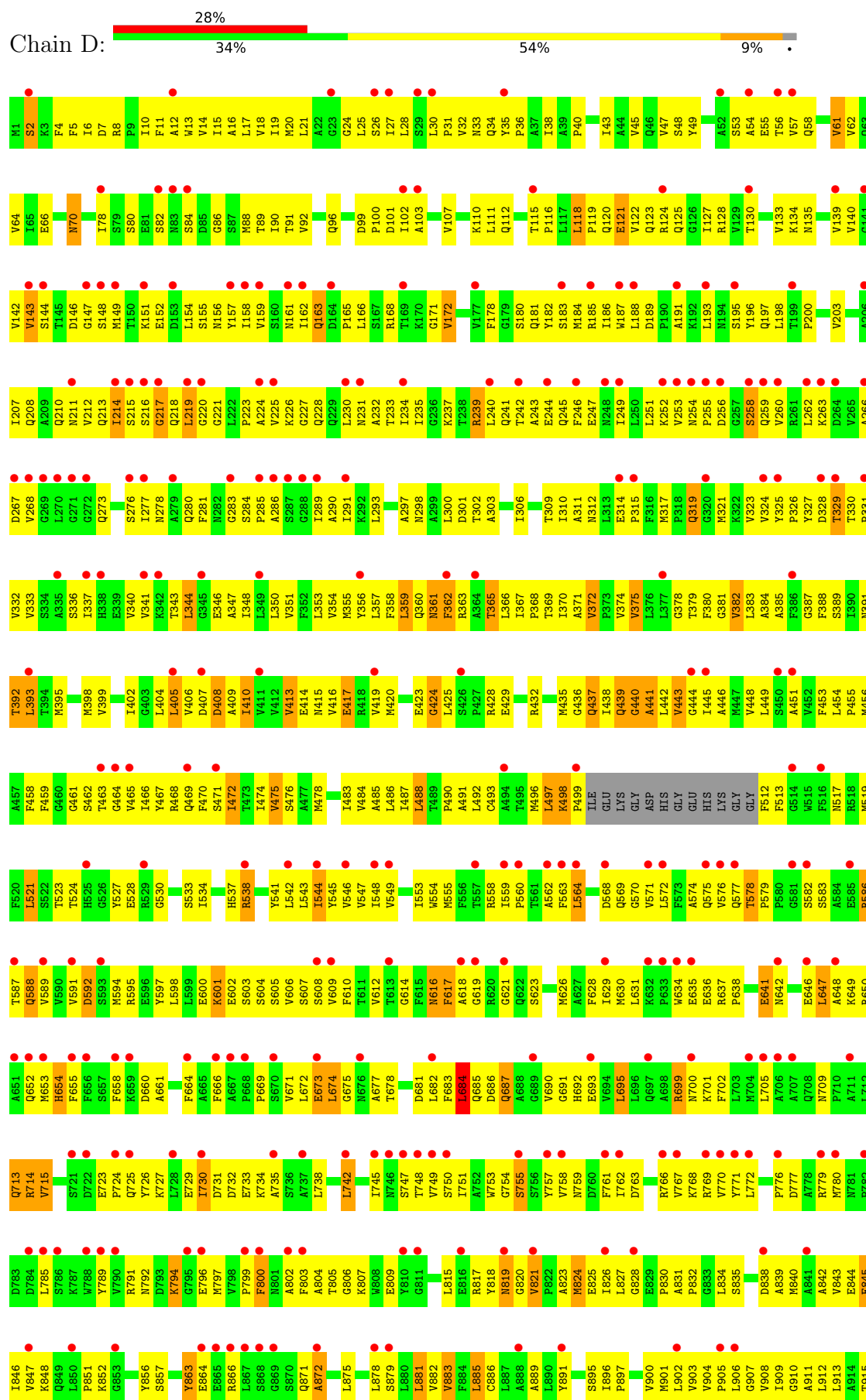


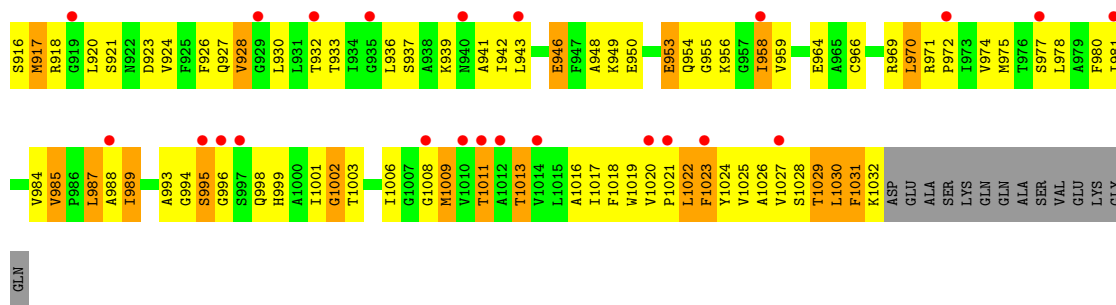


- Molecule 1: Multidrug resistance protein MexB

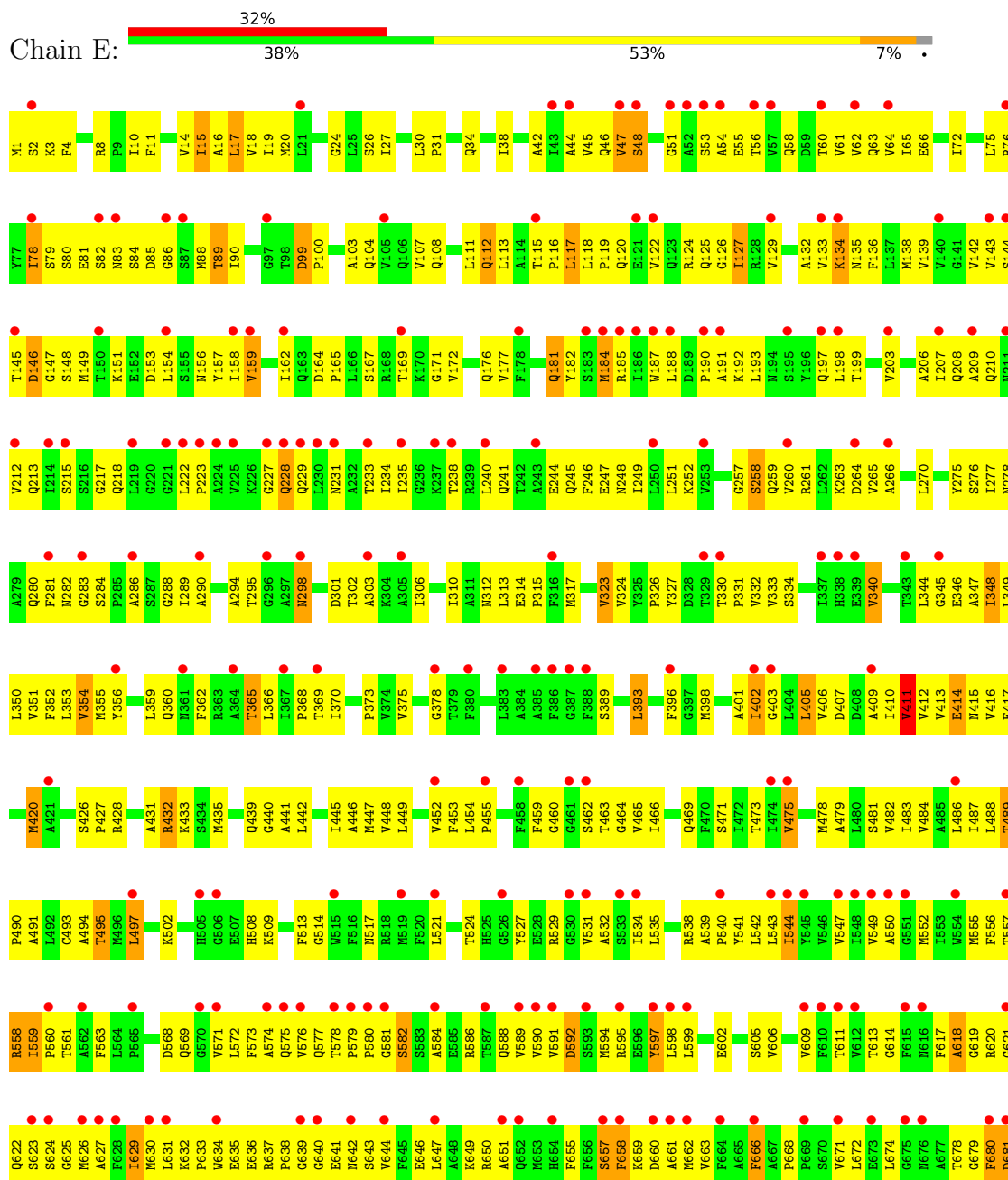


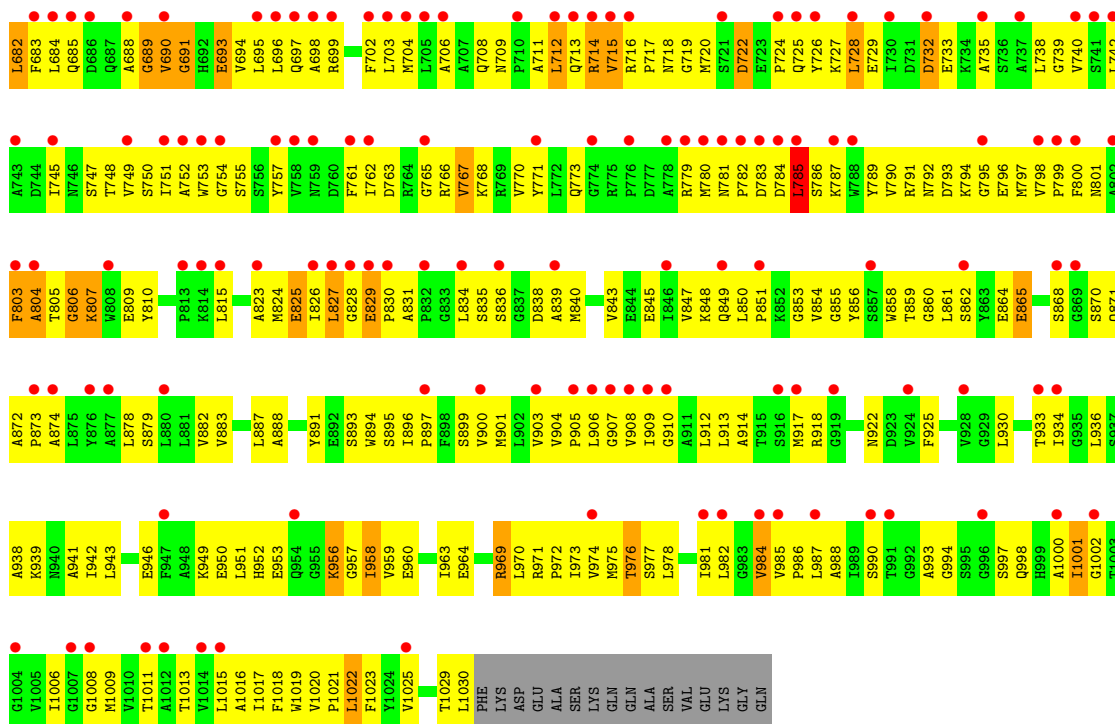




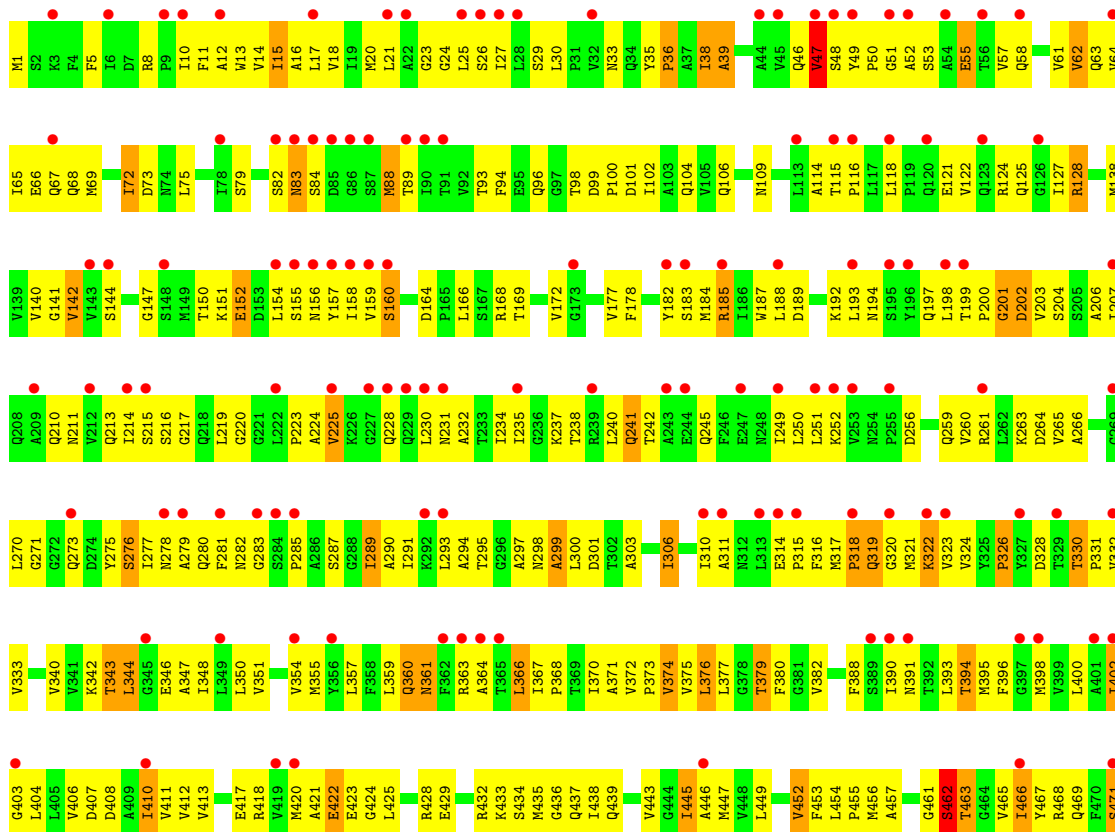


● Molecule 1: Multidrug resistance protein MexB





• Molecule 1: Multidrug resistance protein MexB



GLN	L982	G983	L911	A911	L982	K859	L599	S533	I472
	G984	L912	L913	L914	L915	D860	E800	I534	T473
	V985	L916	L917	L918	L919	M661	K601	L535	I474
	P986	L920	L921	L922	L923	M662	E602	K536	V475
	L987	L924	L925	L926	L927	F663	S603	H537	S476
	A988	L928	L929	L930	L931	V664	S604	H538	A477
	S989	L932	L933	L934	L935	R665	S605	A539	M478
	S990	L936	L937	L938	L939	F666	S606	F540	A479
	T991	L940	L941	L942	L943	L728	S607	F541	L480
	G992	L944	L945	L946	L947	E729	S608	L542	V482
	A993	L948	L949	L950	L951	P669	V609	L543	S481
	G994	L952	L953	L954	L955	E730	L731	I544	I483
	S995	L956	L957	L958	L959	M732	D732	I545	V484
	G996	L960	L961	L962	L963	V733	D733	H546	A485
	S997	L964	L965	L966	L967	K734	K734	V547	L486
	Q998	L968	L969	L970	L971	N801	A735	I548	I487
	V999	L972	L973	L974	L975	A802	S736	V549	L488
	A1000	L976	L977	L978	L979	F803	A737	N615	T489
	T1001	L980	L981	L982	L983	A804	L738	F617	P490
		L984	L985	L986	L987	T805	G739	M552	A491
		L988	L989	L990	L991	G806	V740	M553	L492
		L992	L993	L994	L995	K807	S741	M554	C493
		L996	L997	L998	L999	W808	L742	M555	A494
		L1002	L1003	L1004	L1005	E809	A743	R558	T495
		L1006	L1007	L1008	L1009	Y810	D744	M559	M496
		L1010	L1011	L1012	L1013	G811	I745	P560	L497
		L1014	L1015	L1016	L1017	S812	N746	T561	K498
		L1018	L1019	L1020	L1021	P813	S747	A562	P499
		L1022	L1023	L1024	L1025	K814	T748	F563	I500
		L1026	L1027	L1028	L1029	L815	V749	F563	E501
		L1030	L1031	L1032	L1033	E816	S750	K502	K502
		L1034	L1035	L1036	L1037	W817	I751	G503	G503
		L1038	L1039	L1040	L1041	Y818	A752	D504	D504
		L1042	L1043	L1044	L1045	M819	G753	H505	H505
		L1046	L1047	L1048	L1049	G820	G754	G506	G506
		L1050	L1051	L1052	L1053	V821	S755	W534	W534
		L1054	L1055	L1056	L1057	C886	S756	L572	L572
		L1058	L1059	L1060	L1061	L887	Y757	F573	F573
		L1062	L1063	L1064	L1065	A888	V757	A574	K509
		L1066	L1067	L1068	L1069	A889	V758	Q575	
		L1070	L1071	L1072	L1073	L890	N759	V576	F512
		L1074	L1075	L1076	L1077	Y891	D760	Q577	G514
		L1078	L1079	L1080	L1081	E892	F761	T578	W515
		L1082	L1083	L1084	L1085	S893	I762	G581	F516
		L1086	L1087	L1088	L1089	W894	D763	N517	N517
		L1090	L1091	L1092	L1093	S895	K768	S582	M518
		L1094	L1095	L1096	L1097	I896	F769	S583	M519
		L1098	L1099	L1100	L1101	F897	V770	A584	F520
		L1102	L1103	L1104	L1105	F898	Y771	L647	L521
		L1106	L1107	L1108	L1109	S899	L772	Q588	S522
		L1110	L1111	L1112	L1113	Y900	Q773	V589	T523
		L1114	L1115	L1116	L1117	H901	A778	V590	T524
		L1118	L1119	L1120	L1121	L902	R779	V591	H525
		L1122	L1123	L1124	L1125	W903	A841	D592	G526
		L1126	L1127	L1128	L1129	V904	A842	S593	F527
		L1130	L1131	L1132	L1133	P905	V843	H594	F528
		L1134	L1135	L1136	L1137	L906	W841	A595	R529
		L1138	L1139	L1140	L1141	G907	P782	A596	G530
		L1142	L1143	L1144	L1145	V908	D783	F597	V531
		L1146	L1147	L1148	L1149	W908	L784	V597	A532
		L1150	L1151	L1152	L1153	E845	V847	L598	

4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	124.81Å 133.98Å 150.47Å 87.14° 69.49° 88.54°	Depositor
Resolution (Å)	48.33 – 2.71 48.33 – 2.71	Depositor EDS
% Data completeness (in resolution range)	97.0 (48.33-2.71) 97.1 (48.33-2.71)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.12 (at 2.73Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.282 , 0.315 0.278 , 0.307	Depositor DCC
R_{free} test set	12079 reflections (4.87%)	wwPDB-VP
Wilson B-factor (Å ²)	69.8	Xtriage
Anisotropy	0.385	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 78.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.52$, $\langle L^2 \rangle = 0.36$	Xtriage
Estimated twinning fraction	0.000 for -h,k,-l	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	47305	wwPDB-VP
Average B, all atoms (Å ²)	80.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.37% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ 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: LMT

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	0.68	2/7873 (0.0%)	0.95	15/10701 (0.1%)
1	B	0.74	0/7971	1.01	22/10833 (0.2%)
1	C	0.64	0/7971	0.94	14/10833 (0.1%)
1	D	0.63	1/7901 (0.0%)	0.93	13/10739 (0.1%)
1	E	0.59	0/7971	0.88	6/10833 (0.1%)
1	F	0.63	0/8000	0.91	7/10871 (0.1%)
All	All	0.65	3/47687 (0.0%)	0.94	77/64810 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	1023	PHE	C-N	-6.54	1.25	1.33
1	A	676	ASN	N-CA	5.18	1.52	1.46
1	A	677	ALA	N-CA	-5.04	1.40	1.46

All (77) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	416	VAL	N-CA-C	-10.32	101.85	111.45
1	D	11	PHE	N-CA-C	-8.04	102.46	111.14
1	C	709	ASN	CA-C-N	7.25	126.51	118.97
1	C	709	ASN	C-N-CA	7.25	126.51	118.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	489	THR	CA-C-N	-7.23	111.03	119.05
1	B	489	THR	C-N-CA	-7.23	111.03	119.05
1	A	162	ILE	N-CA-C	6.68	117.30	110.82
1	C	404	LEU	N-CA-C	-6.58	104.90	113.12
1	B	443	VAL	N-CA-C	-6.48	104.17	110.72
1	A	35	TYR	CA-C-N	-6.36	113.43	119.85
1	A	35	TYR	C-N-CA	-6.36	113.43	119.85
1	B	685	GLN	N-CA-C	6.34	119.47	108.76
1	D	883	VAL	N-CA-C	-6.24	104.97	111.58
1	B	6	ILE	N-CA-C	-6.22	104.68	110.53
1	A	888	ALA	N-CA-C	-6.09	104.55	111.07
1	C	1006	ILE	N-CA-C	-6.06	105.82	111.45
1	B	708	GLN	N-CA-C	-5.99	105.28	113.30
1	C	821	VAL	CA-C-N	-5.99	113.52	119.92
1	C	821	VAL	C-N-CA	-5.99	113.52	119.92
1	A	659	LYS	N-CA-C	-5.98	105.95	113.18
1	B	759	ASN	N-CA-C	5.97	118.92	110.14
1	D	1023	PHE	O-C-N	-5.92	115.97	122.07
1	A	137	LEU	N-CA-C	-5.91	104.19	111.40
1	F	829	GLU	CA-C-N	-5.82	113.59	120.11
1	F	829	GLU	C-N-CA	-5.82	113.59	120.11
1	B	528	GLU	N-CA-C	-5.82	104.84	111.07
1	A	769	ARG	N-CA-C	5.75	118.77	109.40
1	A	647	LEU	N-CA-C	-5.70	106.45	113.41
1	C	675	GLY	N-CA-C	5.68	119.04	110.75
1	B	969	ARG	N-CA-C	5.53	120.03	113.28
1	D	1002	GLY	N-CA-C	5.52	119.36	112.73
1	B	111	LEU	N-CA-C	-5.52	105.18	111.14
1	A	751	ILE	CB-CA-C	-5.47	104.88	111.88
1	E	489	THR	CA-C-N	-5.46	113.01	119.84
1	E	489	THR	C-N-CA	-5.46	113.01	119.84
1	D	2	SER	N-CA-C	5.45	119.09	112.23
1	A	130	THR	N-CA-C	5.42	118.06	109.50
1	D	948	ALA	N-CA-C	-5.39	105.30	111.07
1	B	110	LYS	CA-CB-CG	-5.38	103.33	114.10
1	C	15	ILE	N-CA-C	-5.38	105.14	110.62
1	D	410	ILE	N-CA-C	-5.36	105.49	110.53
1	F	900	VAL	N-CA-C	5.35	115.56	110.42
1	F	39	ALA	CA-C-N	-5.35	114.87	120.38
1	F	39	ALA	C-N-CA	-5.35	114.87	120.38
1	B	19	ILE	CB-CA-C	-5.34	104.92	112.14
1	B	73	ASP	N-CA-C	5.31	117.93	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	383	LEU	N-CA-C	-5.30	104.94	111.40
1	A	128	ARG	N-CA-C	5.30	117.37	107.99
1	C	465	VAL	N-CA-C	-5.30	105.33	110.42
1	B	450	SER	N-CA-C	-5.28	105.60	111.36
1	D	863	TYR	N-CA-C	-5.25	105.14	112.45
1	B	46	GLN	N-CA-C	5.24	118.10	109.72
1	E	682	LEU	N-CA-C	5.23	115.44	108.38
1	C	475	VAL	N-CA-CB	5.23	118.75	110.54
1	D	684	LEU	N-CA-C	-5.22	100.80	109.46
1	B	854	VAL	N-CA-C	5.21	115.46	108.17
1	A	676	ASN	CA-C-N	-5.20	110.59	121.81
1	A	676	ASN	C-N-CA	-5.20	110.59	121.81
1	B	29	SER	N-CA-C	-5.20	106.34	113.30
1	B	402	ILE	N-CA-C	5.20	115.81	110.36
1	B	19	ILE	N-CA-CB	5.19	117.59	110.54
1	C	307	ARG	N-CA-C	-5.14	105.11	111.33
1	C	14	VAL	N-CA-C	5.13	115.34	110.42
1	D	375	VAL	N-CA-C	5.12	115.56	110.23
1	C	296	GLY	N-CA-C	5.11	119.77	113.79
1	B	19	ILE	N-CA-C	-5.11	105.41	110.62
1	B	286	ALA	N-CA-C	5.10	116.82	109.07
1	C	316	PHE	N-CA-C	-5.09	108.34	114.75
1	F	1009	MET	N-CA-C	-5.05	105.78	111.28
1	E	411	VAL	N-CA-CB	5.03	117.38	110.54
1	A	123	GLN	N-CA-C	-5.02	105.72	111.14
1	D	1023	PHE	CA-C-N	5.02	126.97	120.44
1	D	1023	PHE	C-N-CA	5.02	126.97	120.44
1	F	443	VAL	N-CA-C	-5.02	105.81	110.53
1	A	894	TRP	N-CA-C	-5.01	108.91	114.62
1	E	99	ASP	CA-C-N	5.01	124.79	119.28
1	E	99	ASP	C-N-CA	5.01	124.79	119.28

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	675	GLY	Peptide

5.2 Too-close contacts ⓘ

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	7718	0	7858	724	0
1	B	7812	0	7944	669	0
1	C	7812	0	7944	805	0
1	D	7744	0	7886	766	0
1	E	7812	0	7944	670	0
1	F	7840	0	7970	712	0
2	A	70	0	92	12	0
2	B	140	0	184	29	0
2	C	70	0	92	18	0
2	D	105	0	138	14	0
2	E	105	0	138	33	0
2	F	70	0	92	9	0
3	A	1	0	0	1	0
3	B	3	0	0	0	0
3	C	1	0	0	0	0
3	D	2	0	0	0	0
All	All	47305	0	48282	4235	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 44.

All (4235) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:447:MET:HE3	2:E:2001:LMT:C12	1.76	1.14
1:E:142:VAL:HG21	1:E:158:ILE:HD11	1.33	1.10
1:D:454:LEU:CD1	2:D:2001:LMT:H101	1.82	1.09
1:E:435:MET:O	1:E:439:GLN:HB2	1.53	1.09
1:E:447:MET:HE3	2:E:2001:LMT:H121	1.32	1.08
1:A:343:THR:HG21	1:A:998:GLN:HE22	1.16	1.08
1:B:359:LEU:HD22	1:B:417:GLU:HG2	1.34	1.07
1:D:343:THR:HG21	1:D:998:GLN:HE22	1.21	1.06
1:A:780:MET:HE1	1:C:224:ALA:HB1	1.37	1.03
1:A:224:ALA:HB1	1:B:780:MET:HE1	1.38	1.03
1:C:367:ILE:HB	1:C:368:PRO:HD3	1.39	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1030:LEU:HB3	1:D:1031:PHE:CE2	1.95	1.02
1:E:589:VAL:HA	1:E:592:ASP:HB2	1.42	1.00
1:A:987:LEU:HD23	1:A:998:GLN:HE21	1.27	1.00
1:B:156:ASN:HD22	1:B:182:TYR:H	1.10	1.00
2:F:2001:LMT:H4'	2:F:2001:LMT:O2B	1.63	0.99
1:A:417:GLU:HA	1:A:420:MET:HE2	1.43	0.99
1:C:156:ASN:ND2	1:C:182:TYR:H	1.59	0.99
1:D:684:LEU:HD11	1:D:826:ILE:HD12	1.45	0.98
1:E:908:VAL:HG23	1:E:930:LEU:HD11	1.44	0.98
1:E:193:LEU:HD13	1:E:265:VAL:HG13	1.45	0.98
1:A:875:LEU:HD21	1:A:931:LEU:HD11	1.46	0.97
1:F:82:SER:C	1:F:83:ASN:HD22	1.73	0.97
1:C:156:ASN:HD22	1:C:182:TYR:N	1.62	0.97
1:E:953:GLU:OE1	2:E:2002:LMT:H6'1	1.65	0.96
1:A:56:THR:O	1:A:60:THR:HG23	1.65	0.96
1:E:359:LEU:HD22	1:E:417:GLU:HG2	1.44	0.96
1:D:471:SER:O	1:D:475:VAL:HG12	1.64	0.96
1:B:527:TYR:OH	1:B:966:CYS:HB3	1.65	0.96
1:B:375:VAL:HG11	1:B:405:LEU:HD11	1.47	0.96
1:E:905:PRO:HA	1:E:908:VAL:HG12	1.44	0.96
1:E:187:TRP:O	1:E:266:ALA:HB1	1.65	0.96
1:B:298:ASN:HD22	1:B:301:ASP:H	1.11	0.95
1:B:460:GLY:H	1:B:871:GLN:HE22	1.12	0.95
1:D:34:GLN:O	1:D:392:THR:HG22	1.67	0.94
2:F:2002:LMT:H3'	2:F:2002:LMT:O5B	1.64	0.94
1:D:1025:VAL:O	1:D:1029:THR:HG23	1.68	0.94
1:F:498:LYS:HE3	1:F:498:LYS:H	1.31	0.94
1:C:402:ILE:HD12	1:C:403:GLY:H	1.29	0.94
1:A:574:ALA:HB3	1:A:627:ALA:HB3	1.49	0.94
1:F:958:ILE:H	1:F:958:ILE:HD12	1.33	0.94
1:B:156:ASN:ND2	1:B:182:TYR:H	1.65	0.93
1:A:690:VAL:HG21	1:A:694:VAL:HB	1.50	0.93
1:C:435:MET:HA	1:C:435:MET:HE3	1.51	0.93
1:B:445:ILE:HD13	1:B:939:LYS:HG3	1.50	0.93
1:A:210:GLN:HE22	1:A:250:LEU:H	1.16	0.92
1:C:717:PRO:HA	1:C:826:ILE:HG22	1.53	0.91
1:A:393:LEU:HD11	1:A:466:ILE:HG23	1.51	0.91
1:B:134:LYS:HZ2	1:B:134:LYS:H	1.18	0.91
1:D:454:LEU:HD12	2:D:2001:LMT:H101	1.52	0.91
1:B:829:GLU:HB2	1:B:830:PRO:HD2	1.54	0.90
1:B:831:ALA:HB3	1:B:834:LEU:HD12	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:471:SER:O	1:E:475:VAL:HG12	1.71	0.90
1:F:717:PRO:HA	1:F:826:ILE:HG22	1.52	0.90
1:D:943:LEU:HD13	1:D:969:ARG:HH21	1.37	0.89
1:E:683:PHE:CZ	1:E:825:GLU:HG2	2.06	0.89
1:B:171:GLY:HA3	1:B:302:THR:HG22	1.52	0.89
2:B:2001:LMT:O3'	2:B:2001:LMT:H1B	1.71	0.89
1:D:745:ILE:O	1:D:749:VAL:HG23	1.71	0.89
1:F:68:GLN:HG3	1:F:114:ALA:HB2	1.52	0.89
1:B:156:ASN:HD22	1:B:182:TYR:N	1.70	0.89
1:D:569:GLN:H	1:D:634:TRP:HH2	1.09	0.89
1:F:314:GLU:HA	1:F:317:MET:HE3	1.55	0.89
1:A:293:LEU:HD11	1:A:302:THR:HG21	1.55	0.89
1:B:616:ASN:ND2	1:B:618:ALA:H	1.71	0.89
1:D:184:MET:HB3	1:D:770:VAL:HG23	1.55	0.88
1:D:911:ALA:O	1:D:915:THR:HG23	1.72	0.88
1:C:248:ASN:HA	1:C:261:ARG:HD3	1.56	0.88
1:F:367:ILE:HB	1:F:368:PRO:HD3	1.53	0.88
1:F:572:LEU:HB3	1:F:629:ILE:HB	1.55	0.88
1:F:730:ILE:H	1:F:730:ILE:HD13	1.39	0.88
1:C:401:ALA:O	1:C:405:LEU:HD23	1.74	0.87
1:A:884:PHE:HB2	1:A:901:MET:HE2	1.55	0.87
1:C:399:VAL:O	1:C:402:ILE:HG13	1.75	0.87
1:E:678:THR:HG22	1:E:679:GLY:H	1.37	0.87
1:E:62:VAL:HG22	1:E:88:MET:HE2	1.54	0.87
1:F:716:ARG:NH1	1:F:827:LEU:HB2	1.88	0.87
1:D:18:VAL:HG13	2:E:2002:LMT:H121	1.57	0.87
1:B:958:ILE:HG22	1:B:1025:VAL:HG22	1.58	0.86
1:C:169:THR:HB	1:C:172:VAL:HG21	1.57	0.86
1:D:641:GLU:HA	1:D:646:GLU:HG2	1.56	0.86
1:F:732:ASP:HA	1:F:735:ALA:HB3	1.57	0.86
1:E:240:LEU:HD22	1:E:245:GLN:HB3	1.57	0.86
1:F:685:GLN:HE21	1:F:857:SER:HB2	1.39	0.86
1:D:953:GLU:HG3	1:D:954:GLN:H	1.40	0.86
1:E:447:MET:CE	2:E:2001:LMT:C12	2.53	0.86
1:F:324:VAL:HG23	1:F:326:PRO:HD3	1.56	0.86
1:D:156:ASN:HD21	1:D:768:LYS:HE2	1.39	0.86
1:D:405:LEU:C	1:D:405:LEU:HD12	2.01	0.86
1:C:454:LEU:HB2	1:C:455:PRO:HD3	1.58	0.85
1:D:780:MET:HE1	1:F:224:ALA:HB1	1.56	0.85
1:A:112:GLN:HG3	1:B:112:GLN:NE2	1.90	0.85
1:C:453:PHE:HB3	1:C:456:MET:HE2	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:747:SER:O	1:D:751:ILE:HG12	1.77	0.85
1:F:572:LEU:HD11	1:F:648:ALA:HB2	1.58	0.85
1:B:478:MET:O	1:B:482:VAL:HG23	1.76	0.85
1:C:686:ASP:HA	1:C:854:VAL:HA	1.58	0.85
1:D:343:THR:HG21	1:D:998:GLN:NE2	1.91	0.85
2:E:2001:LMT:H123	2:E:2002:LMT:H111	1.57	0.85
1:C:115:THR:HA	1:C:118:LEU:HD22	1.56	0.85
1:E:440:GLY:HA3	2:E:2002:LMT:O2'	1.74	0.85
1:A:492:LEU:HD22	1:A:496:MET:HE3	1.55	0.85
1:D:1028:SER:O	1:D:1032:LYS:HB2	1.74	0.85
1:F:520:PHE:O	1:F:524:THR:HG23	1.77	0.85
1:C:563:PHE:CD2	1:C:564:LEU:HD23	2.11	0.85
1:F:58:GLN:HE22	1:F:815:LEU:HD12	1.42	0.85
1:F:524:THR:HG22	1:F:970:LEU:HD12	1.59	0.85
1:C:219:LEU:HG	1:C:234:ILE:HD11	1.57	0.84
1:E:984:VAL:HG13	1:E:987:LEU:HD12	1.58	0.84
1:D:575:GLN:HB3	1:D:616:ASN:ND2	1.92	0.84
1:A:343:THR:HG21	1:A:998:GLN:NE2	1.90	0.84
1:A:377:LEU:HD21	2:A:1102:LMT:H122	1.59	0.84
1:B:273:GLN:HE22	1:B:769:ARG:HH11	1.21	0.84
1:C:922:ASN:OD1	1:C:926:PHE:HD2	1.61	0.84
1:E:47:VAL:HG22	1:E:127:ILE:HG23	1.59	0.84
1:E:579:PRO:HD3	1:E:660:ASP:O	1.78	0.84
1:B:143:VAL:HG21	1:B:281:PHE:HB3	1.59	0.84
1:D:47:VAL:HG12	1:D:88:MET:HE2	1.60	0.84
1:E:738:LEU:HD13	1:E:798:VAL:HG11	1.57	0.84
1:B:282:ASN:C	1:B:595:ARG:HD2	2.02	0.84
1:C:520:PHE:HA	1:C:523:THR:HG22	1.57	0.84
1:B:595:ARG:HG2	1:B:595:ARG:HH11	1.42	0.84
1:B:1002:GLY:O	1:B:1006:ILE:HG12	1.77	0.84
1:F:412:VAL:HG13	1:F:435:MET:HE1	1.58	0.84
1:A:984:VAL:HG11	1:A:1005:VAL:CG2	2.08	0.83
1:B:139:VAL:CG1	1:B:327:TYR:HB3	2.08	0.83
1:D:669:PRO:HG3	1:D:675:GLY:HA3	1.58	0.83
1:B:653:MET:O	1:B:656:PHE:HB3	1.76	0.83
1:C:280:GLN:HB2	1:C:611:THR:HG22	1.59	0.83
1:F:156:ASN:HD22	1:F:182:TYR:H	1.22	0.83
1:A:887:LEU:HD13	1:A:900:VAL:HG11	1.60	0.83
1:B:471:SER:O	1:B:475:VAL:HG13	1.77	0.83
1:A:149:MET:HE2	1:A:153:ASP:HB3	1.61	0.82
1:B:134:LYS:H	1:B:134:LYS:NZ	1.77	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:643:SER:HB3	1:E:646:GLU:HG2	1.58	0.82
1:C:924:VAL:HA	1:C:927:GLN:NE2	1.94	0.82
1:C:188:LEU:HD21	1:C:203:VAL:HG11	1.60	0.82
1:E:491:ALA:O	1:E:495:THR:HB	1.79	0.82
1:E:782:PRO:O	1:E:785:LEU:HG	1.79	0.82
1:B:900:VAL:HG23	1:B:941:ALA:HB3	1.60	0.82
1:F:928:VAL:O	1:F:932:THR:HG22	1.79	0.82
1:C:752:ALA:HA	1:C:774:GLY:H	1.44	0.82
1:D:423:GLU:HG3	1:D:425:LEU:CD1	2.09	0.82
1:D:18:VAL:CG1	2:E:2002:LMT:H121	2.10	0.82
1:C:169:THR:HB	1:C:172:VAL:CG2	2.10	0.82
1:E:156:ASN:HD22	1:E:182:TYR:H	1.25	0.82
1:D:909:ILE:HG13	1:D:1011:THR:HG21	1.60	0.82
1:C:1:MET:N	2:C:2002:LMT:H6E	1.95	0.82
1:D:156:ASN:ND2	1:D:182:TYR:H	1.78	0.82
1:D:367:ILE:HB	1:D:368:PRO:HD3	1.62	0.82
1:F:461:GLY:HA3	1:F:867:LEU:HD21	1.61	0.81
1:C:1:MET:N	2:C:2002:LMT:C6'	2.42	0.81
1:E:447:MET:CE	2:E:2001:LMT:H121	2.11	0.81
1:F:452:VAL:HG22	1:F:883:VAL:HG21	1.62	0.81
1:A:780:MET:SD	1:C:220:GLY:HA2	2.20	0.81
1:E:314:GLU:HA	1:E:317:MET:HE2	1.63	0.81
1:E:479:ALA:O	1:E:483:ILE:HG13	1.81	0.81
1:B:314:GLU:HA	1:B:317:MET:HE2	1.62	0.81
1:D:372:VAL:HA	1:D:405:LEU:HD21	1.63	0.81
1:B:56:THR:O	1:B:60:THR:HB	1.80	0.80
1:E:598:LEU:HD12	1:E:606:VAL:HG21	1.61	0.80
1:F:343:THR:HG21	1:F:998:GLN:HE22	1.46	0.80
1:D:329:THR:O	1:D:332:VAL:HG12	1.82	0.80
1:F:27:ILE:O	1:F:27:ILE:HG22	1.81	0.80
1:B:198:LEU:HD21	1:B:252:LYS:HD2	1.63	0.80
1:B:243:ALA:HB1	1:B:268:VAL:HG12	1.62	0.80
1:C:351:VAL:HG12	1:C:355:MET:HE2	1.63	0.80
1:B:650:ARG:HG2	1:B:650:ARG:HH11	1.45	0.80
1:C:845:GLU:HA	1:C:848:LYS:HE3	1.61	0.80
1:D:78:ILE:HD13	1:D:92:VAL:HG22	1.63	0.80
1:D:575:GLN:HB3	1:D:616:ASN:HD22	1.45	0.80
1:F:562:ALA:O	1:F:923:ASP:HA	1.81	0.80
1:A:792:ASN:HD21	1:A:796:GLU:HB2	1.47	0.80
1:C:686:ASP:HB3	1:C:695:LEU:HD21	1.63	0.80
1:B:900:VAL:O	1:B:903:VAL:HG22	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:370:ILE:O	1:B:373:PRO:HD2	1.82	0.79
1:E:925:PHE:HB3	1:E:1001:ILE:HG23	1.62	0.79
1:F:535:LEU:HD13	1:F:959:VAL:HG13	1.62	0.79
1:B:740:VAL:HG21	1:B:745:ILE:HD11	1.62	0.79
1:C:995:SER:HA	1:C:998:GLN:HG3	1.62	0.79
1:E:185:ARG:NH1	1:E:771:TYR:HB3	1.98	0.79
1:E:785:LEU:HD22	1:E:804:ALA:HB1	1.63	0.79
1:A:445:ILE:HD12	1:A:446:ALA:N	1.97	0.79
1:E:905:PRO:HA	1:E:908:VAL:CG1	2.12	0.79
1:A:1026:ALA:O	1:A:1027:VAL:HG22	1.82	0.79
1:A:131:LYS:HG3	1:A:131:LYS:O	1.82	0.79
1:A:47:VAL:HG22	1:A:48:SER:H	1.45	0.79
1:D:742:LEU:H	1:D:742:LEU:HD12	1.48	0.79
1:C:187:TRP:HA	1:C:773:GLN:O	1.83	0.79
1:A:377:LEU:HD13	2:A:1101:LMT:H101	1.65	0.79
1:F:578:THR:HG21	1:F:587:THR:HA	1.65	0.79
1:C:687:GLN:HG3	1:C:688:ALA:H	1.48	0.78
1:E:459:PHE:O	1:E:464:GLY:HA3	1.83	0.78
1:C:713:GLN:HE21	1:C:714:ARG:HE	1.31	0.78
1:D:541:TYR:HA	1:D:544:ILE:HG22	1.64	0.78
1:D:562:ALA:O	1:D:923:ASP:HA	1.83	0.78
1:E:690:VAL:CG1	1:E:694:VAL:HB	2.13	0.78
1:F:207:ILE:HG22	1:F:759:ASN:HD21	1.46	0.78
1:A:584:ALA:H	1:A:622:GLN:HE21	1.32	0.78
1:C:368:PRO:HG3	1:C:413:VAL:HG21	1.65	0.78
1:D:393:LEU:CD1	1:D:466:ILE:HG23	2.14	0.78
1:E:64:VAL:CG2	1:E:118:LEU:HD23	2.12	0.78
1:D:684:LEU:HD12	1:D:684:LEU:N	1.97	0.78
1:C:908:VAL:O	1:C:912:LEU:HG	1.83	0.78
1:A:298:ASN:O	1:A:302:THR:HG23	1.83	0.78
1:D:571:VAL:HG12	1:D:630:MET:HE1	1.64	0.78
1:F:641:GLU:HB3	1:F:650:ARG:HH12	1.49	0.78
1:D:159:VAL:HA	1:D:163:GLN:HB2	1.63	0.78
1:D:713:GLN:HG3	1:D:714:ARG:HG3	1.66	0.78
1:B:725:GLN:CD	1:B:811:GLY:HA3	2.09	0.78
1:F:920:LEU:HD23	1:F:1000:ALA:HA	1.66	0.78
1:C:1:MET:H3	2:C:2002:LMT:H6E	1.48	0.77
1:D:827:LEU:HD12	1:D:827:LEU:O	1.84	0.77
1:D:187:TRP:HB2	1:D:267:ASP:HB2	1.66	0.77
1:D:225:VAL:HG22	1:E:780:MET:HE2	1.66	0.77
1:A:568:ASP:HB3	1:A:634:TRP:CZ3	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:478:MET:O	1:C:481:SER:HB3	1.84	0.77
1:C:1009:MET:HA	1:C:1009:MET:CE	2.13	0.77
1:C:984:VAL:HG12	1:C:987:LEU:HD12	1.67	0.77
1:D:380:PHE:CE1	1:D:398:MET:HE3	2.19	0.77
1:B:179:GLY:HA2	2:B:2001:LMT:O1'	1.84	0.77
1:E:47:VAL:HG11	1:E:122:VAL:HG13	1.67	0.77
1:F:10:ILE:O	1:F:14:VAL:HG23	1.85	0.77
1:C:909:ILE:O	1:C:913:LEU:HG	1.84	0.77
1:B:900:VAL:HG21	1:B:942:ILE:HG13	1.67	0.77
1:C:565:PRO:HG3	1:C:997:SER:HA	1.66	0.77
1:C:912:LEU:HD23	1:C:926:PHE:HZ	1.48	0.77
1:D:57:VAL:HG13	1:D:82:SER:HB3	1.66	0.77
1:D:347:ALA:O	1:D:351:VAL:HG23	1.83	0.77
1:E:448:VAL:O	1:E:452:VAL:HG23	1.85	0.77
1:B:706:ALA:HB1	1:B:712:LEU:HD12	1.65	0.77
1:C:521:LEU:HD23	1:C:521:LEU:O	1.84	0.77
1:C:958:ILE:H	1:C:958:ILE:HD12	1.48	0.77
1:A:9:PRO:HD2	1:B:892:GLU:OE2	1.85	0.76
1:A:879:SER:O	1:A:883:VAL:HG23	1.84	0.76
1:B:10:ILE:HB	1:C:892:GLU:OE2	1.85	0.76
1:D:1030:LEU:HB3	1:D:1031:PHE:CD2	2.20	0.76
1:F:393:LEU:HD13	1:F:466:ILE:HB	1.67	0.76
1:B:364:ALA:HA	1:B:497:LEU:HD11	1.67	0.76
1:C:693:GLU:HA	1:C:696:LEU:HD12	1.66	0.76
1:D:154:LEU:CD1	1:D:286:ALA:HA	2.16	0.76
1:D:228:GLN:HE21	1:D:230:LEU:H	1.32	0.76
1:E:108:GLN:O	1:E:111:LEU:HB3	1.83	0.76
1:C:928:VAL:O	1:C:932:THR:HG22	1.84	0.76
1:C:1009:MET:HA	1:C:1009:MET:HE3	1.67	0.76
1:E:541:TYR:HA	1:E:544:ILE:HG22	1.67	0.76
1:F:740:VAL:HG21	1:F:744:ASP:HB3	1.66	0.76
1:D:454:LEU:HD13	2:D:2001:LMT:H101	1.66	0.76
1:A:229:GLN:HE22	1:B:586:ARG:HH11	1.31	0.76
1:A:598:LEU:O	1:A:602:GLU:HB2	1.85	0.76
1:B:354:VAL:HG12	1:B:978:LEU:HD23	1.67	0.76
1:E:900:VAL:HG23	1:E:941:ALA:HB3	1.65	0.76
1:B:541:TYR:HA	1:B:544:ILE:HG22	1.67	0.76
1:E:420:MET:HE1	1:E:427:PRO:HA	1.68	0.76
1:E:683:PHE:CE1	1:E:825:GLU:HG2	2.21	0.76
1:F:150:THR:HG23	1:F:152:GLU:HG2	1.67	0.76
1:A:540:PRO:O	1:A:544:ILE:HG12	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:847:VAL:O	1:B:850:LEU:HG	1.86	0.76
1:C:46:GLN:HA	1:C:88:MET:HE3	1.68	0.76
1:C:142:VAL:HG21	1:C:321:MET:HE3	1.66	0.76
1:C:637:ARG:HB3	1:C:642:ASN:HB3	1.67	0.76
1:D:879:SER:O	1:D:883:VAL:HG23	1.86	0.76
1:F:343:THR:HG21	1:F:998:GLN:NE2	2.01	0.76
1:F:518:ARG:HA	1:F:521:LEU:HB3	1.67	0.76
1:A:568:ASP:HB3	1:A:634:TRP:HZ3	1.51	0.75
1:C:648:ALA:HA	1:C:651:ALA:HB3	1.67	0.75
1:E:447:MET:HE3	2:E:2001:LMT:H123	1.68	0.75
1:E:579:PRO:HG2	1:E:586:ARG:NH2	2.01	0.75
1:D:215:SER:HB2	1:E:51:GLY:O	1.87	0.75
1:D:242:THR:OG1	1:D:245:GLN:HB2	1.87	0.75
1:B:217:GLY:O	1:B:234:ILE:HG12	1.85	0.75
1:D:346:GLU:O	1:D:350:LEU:HD23	1.86	0.75
1:E:668:PRO:HB2	1:E:672:LEU:HD21	1.67	0.75
1:A:423:GLU:HB3	1:A:425:LEU:HD13	1.68	0.75
1:C:543:LEU:O	1:C:547:VAL:HG23	1.86	0.75
1:E:953:GLU:OE1	2:E:2002:LMT:C6B	2.35	0.75
1:A:837:GLY:HA2	1:A:840:MET:HE3	1.69	0.75
1:B:247:GLU:HG2	1:B:268:VAL:HG21	1.68	0.75
1:F:1:MET:HB3	2:F:2001:LMT:O2'	1.86	0.75
1:F:436:GLY:HA2	2:F:2001:LMT:O4'	1.85	0.75
1:F:548:ILE:CG2	1:F:909:ILE:HD13	2.17	0.75
1:A:293:LEU:CD1	1:A:302:THR:HG21	2.17	0.75
1:D:900:VAL:O	1:D:903:VAL:HG22	1.86	0.75
1:E:447:MET:CE	2:E:2001:LMT:H123	2.17	0.75
1:F:410:ILE:HG12	1:F:976:THR:HG22	1.69	0.74
1:B:78:ILE:HG12	1:B:79:SER:N	2.00	0.74
1:B:441:ALA:O	1:B:445:ILE:HG22	1.87	0.74
1:C:127:ILE:H	1:C:127:ILE:HD12	1.51	0.74
1:C:391:ASN:H	1:C:394:THR:HG22	1.51	0.74
1:C:727:LYS:HG2	1:C:729:GLU:HG2	1.67	0.74
1:C:730:ILE:H	1:C:730:ILE:HD13	1.51	0.74
1:D:184:MET:HE3	1:D:246:PHE:CE1	2.23	0.74
1:F:242:THR:OG1	1:F:245:GLN:HB2	1.86	0.74
1:A:437:GLN:O	1:A:438:ILE:HG12	1.87	0.74
1:A:1024:TYR:O	1:A:1028:SER:HB2	1.88	0.74
1:B:951:LEU:HD11	1:B:968:MET:HE3	1.68	0.74
1:C:563:PHE:HB2	1:C:865:GLU:HG2	1.69	0.74
1:F:934:ILE:HD12	1:F:934:ILE:O	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:60:THR:HG23	1:B:119:PRO:HG3	1.69	0.74
1:C:314:GLU:HA	1:C:317:MET:SD	2.27	0.74
1:D:393:LEU:HD13	1:D:466:ILE:HG23	1.70	0.74
1:C:502:LYS:HD2	1:C:503:GLY:N	2.02	0.74
1:D:749:VAL:HG22	1:D:753:TRP:HZ3	1.51	0.74
1:F:53:SER:O	1:F:57:VAL:HG23	1.88	0.74
1:D:54:ALA:HB1	1:D:815:LEU:HD23	1.68	0.74
1:D:568:ASP:HB3	1:D:634:TRP:CZ3	2.21	0.74
1:D:757:TYR:CE1	1:D:769:ARG:HD3	2.23	0.74
1:E:605:SER:OG	1:E:647:LEU:HD21	1.88	0.74
1:C:615:PHE:HD1	1:C:620:ARG:HH11	1.36	0.74
1:D:213:GLN:HG3	1:E:56:THR:HG22	1.70	0.74
1:D:1025:VAL:O	1:D:1029:THR:CG2	2.35	0.74
1:B:187:TRP:HA	1:B:773:GLN:O	1.88	0.73
1:C:447:MET:SD	1:C:886:CYS:HB3	2.27	0.73
1:F:340:VAL:HA	1:F:343:THR:HG23	1.70	0.73
1:A:363:ARG:NH2	2:A:1102:LMT:O4'	2.20	0.73
1:E:108:GLN:HB3	1:E:129:VAL:HG11	1.70	0.73
1:F:699:ARG:HD2	1:F:824:MET:HE1	1.68	0.73
1:A:156:ASN:OD1	1:A:768:LYS:NZ	2.20	0.73
1:B:722:ASP:HA	1:B:813:PRO:HD3	1.70	0.73
1:C:156:ASN:HD22	1:C:182:TYR:H	0.79	0.73
1:D:759:ASN:O	1:D:770:VAL:HG12	1.88	0.73
1:A:210:GLN:HE22	1:A:250:LEU:N	1.85	0.73
1:C:36:PRO:O	1:C:38:ILE:HG23	1.88	0.73
1:D:228:GLN:OE1	1:E:780:MET:HE3	1.89	0.73
1:B:442:LEU:HA	1:B:445:ILE:HG23	1.69	0.73
1:B:878:LEU:HD13	2:B:2004:LMT:H32	1.70	0.73
1:C:887:LEU:CD1	1:C:900:VAL:HG21	2.18	0.73
1:D:423:GLU:HG3	1:D:425:LEU:HD13	1.70	0.73
1:E:134:LYS:NZ	1:E:134:LYS:H	1.86	0.73
1:E:786:SER:HA	1:E:801:ASN:HB3	1.71	0.73
1:F:433:LYS:HG2	1:F:437:GLN:HE21	1.52	0.73
1:B:631:LEU:CD1	1:B:644:VAL:HG22	2.19	0.73
1:E:650:ARG:HB3	1:E:650:ARG:HH11	1.51	0.73
1:E:146:ASP:O	1:E:148:SER:N	2.21	0.73
1:E:680:PHE:HB2	1:E:858:TRP:CZ3	2.24	0.73
1:D:213:GLN:HE21	1:D:239:ARG:HG3	1.54	0.73
1:E:251:LEU:HD22	1:E:265:VAL:HG21	1.71	0.73
1:E:671:VAL:HG23	1:E:674:LEU:HB3	1.68	0.73
1:E:718:ASN:HB2	1:E:827:LEU:CD1	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:872:ALA:HB3	1:E:873:PRO:HD3	1.69	0.73
1:F:210:GLN:OE1	1:F:249:ILE:HG23	1.89	0.73
1:E:247:GLU:HB3	1:E:263:LYS:HB3	1.71	0.72
1:F:350:LEU:O	1:F:354:VAL:HG23	1.89	0.72
1:A:85:ASP:OD2	1:A:620:ARG:HD3	1.89	0.72
1:C:544:ILE:O	1:C:547:VAL:HB	1.89	0.72
1:D:404:LEU:HB3	1:D:478:MET:HE1	1.71	0.72
1:D:953:GLU:CG	1:D:954:GLN:H	2.02	0.72
1:A:330:THR:OG1	1:A:331:PRO:HD3	1.88	0.72
1:D:735:ALA:HB2	1:D:803:PHE:HB2	1.70	0.72
1:A:584:ALA:HB2	1:A:622:GLN:HB3	1.71	0.72
1:B:340:VAL:O	1:B:344:LEU:HG	1.88	0.72
1:C:752:ALA:O	1:C:773:GLN:HG3	1.88	0.72
1:D:541:TYR:O	1:D:544:ILE:HG22	1.88	0.72
1:B:47:VAL:HG23	1:B:88:MET:HE2	1.72	0.72
1:B:336:SER:O	1:B:340:VAL:HG23	1.89	0.72
1:C:306:ILE:HD13	1:C:307:ARG:N	2.04	0.72
1:D:32:VAL:HG21	1:D:337:ILE:HD13	1.71	0.72
1:D:555:MET:HB2	1:D:912:LEU:HD13	1.72	0.72
1:B:915:THR:HG23	1:B:920:LEU:HB2	1.71	0.72
1:D:682:LEU:HD23	1:D:826:ILE:O	1.89	0.72
1:A:451:ALA:HB1	1:A:882:VAL:HG12	1.70	0.72
1:A:485:ALA:HA	1:A:489:THR:OG1	1.89	0.72
1:A:727:LYS:HD3	1:A:809:GLU:OE1	1.90	0.72
1:D:185:ARG:HH11	1:D:771:TYR:HB2	1.54	0.72
1:D:319:GLN:NE2	1:D:319:GLN:H	1.88	0.72
1:A:377:LEU:HD21	2:A:1102:LMT:C12	2.19	0.72
1:B:981:ILE:HG13	1:B:982:LEU:N	2.05	0.72
1:C:262:LEU:HD12	1:C:265:VAL:HG23	1.70	0.72
1:C:354:VAL:HG21	1:C:982:LEU:HD23	1.72	0.72
1:E:156:ASN:HD22	1:E:182:TYR:N	1.88	0.72
1:B:185:ARG:NH1	1:B:771:TYR:HB3	2.05	0.72
1:D:646:GLU:HG3	1:D:650:ARG:HH12	1.55	0.72
1:E:586:ARG:O	1:E:590:VAL:HG23	1.90	0.72
1:C:785:LEU:HD12	1:C:786:SER:N	2.04	0.71
1:D:840:MET:O	1:D:844:GLU:HG2	1.89	0.71
1:E:281:PHE:CE2	1:E:324:VAL:HG11	2.25	0.71
1:E:303:ALA:CB	1:E:330:THR:HG21	2.20	0.71
1:E:629:ILE:H	1:E:629:ILE:HD12	1.54	0.71
1:A:410:ILE:HA	1:A:413:VAL:HG12	1.72	0.71
1:C:306:ILE:HD13	1:C:307:ARG:H	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:388:PHE:HE2	1:D:472:ILE:HG13	1.55	0.71
1:D:416:VAL:HG12	1:D:420:MET:HE2	1.69	0.71
1:A:987:LEU:HD23	1:A:998:GLN:NE2	2.04	0.71
1:D:293:LEU:CD1	1:D:302:THR:HG21	2.20	0.71
1:D:871:GLN:NE2	2:D:2001:LMT:O4'	2.20	0.71
1:D:924:VAL:HA	1:D:927:GLN:HE21	1.55	0.71
1:F:300:LEU:HD23	1:F:330:THR:HG23	1.73	0.71
1:E:792:ASN:HD21	1:E:796:GLU:HB2	1.55	0.71
1:F:96:GLN:CD	1:F:461:GLY:O	2.33	0.71
1:A:535:LEU:HD12	1:A:963:ILE:HD11	1.73	0.71
1:E:209:ALA:HB1	1:F:743:ALA:HB3	1.71	0.71
1:E:891:TYR:HA	1:E:949:LYS:HE2	1.73	0.71
1:E:985:VAL:HB	1:E:986:PRO:HD3	1.72	0.71
1:F:773:GLN:HG2	1:F:779:ARG:HH12	1.55	0.71
1:A:705:LEU:HD11	1:A:849:GLN:HB2	1.73	0.71
1:D:298:ASN:O	1:D:302:THR:HG22	1.90	0.71
1:D:723:GLU:HB2	1:D:724:PRO:HD2	1.72	0.71
1:F:15:ILE:HD13	1:F:16:ALA:H	1.53	0.71
1:F:406:VAL:O	1:F:410:ILE:HG23	1.90	0.71
1:B:282:ASN:HD21	1:B:608:SER:HB2	1.55	0.71
1:D:2:SER:O	1:D:6:ILE:HG13	1.90	0.71
1:E:680:PHE:HA	1:E:862:SER:OG	1.90	0.71
1:C:241:GLN:HG3	1:C:762:ILE:O	1.91	0.71
1:D:409:ALA:O	1:D:413:VAL:HG12	1.89	0.71
1:F:584:ALA:H	1:F:622:GLN:HE21	1.38	0.71
1:A:649:LYS:HA	1:A:652:GLN:HB3	1.72	0.71
1:B:904:VAL:HB	1:B:905:PRO:HD3	1.71	0.71
1:D:48:SER:O	1:D:125:GLN:HG2	1.90	0.71
1:F:516:PHE:O	1:F:519:MET:HG3	1.91	0.71
1:C:367:ILE:HD11	1:C:496:MET:HB2	1.72	0.70
1:A:538:ARG:HG3	1:A:1022:LEU:HD21	1.73	0.70
1:B:908:VAL:HB	1:B:930:LEU:HD11	1.73	0.70
1:C:17:LEU:HD23	1:C:20:MET:CE	2.21	0.70
1:C:357:LEU:O	1:C:357:LEU:HD23	1.91	0.70
1:C:934:ILE:HD13	1:C:934:ILE:C	2.16	0.70
1:D:1024:TYR:O	1:D:1028:SER:HB2	1.91	0.70
1:E:75:LEU:HD23	1:E:76:ARG:N	2.05	0.70
1:E:410:ILE:HG13	1:E:976:THR:HG22	1.71	0.70
1:F:903:VAL:CG2	1:F:1020:VAL:HG22	2.21	0.70
1:A:442:LEU:O	1:A:445:ILE:HG13	1.92	0.70
1:B:757:TYR:HB2	1:B:771:TYR:CE1	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:718:ASN:HB2	1:E:827:LEU:HD13	1.72	0.70
1:F:188:LEU:HA	1:F:266:ALA:HB2	1.71	0.70
1:B:47:VAL:HG13	1:B:127:ILE:HA	1.73	0.70
1:D:154:LEU:HD12	1:D:286:ALA:HA	1.73	0.70
1:A:310:ILE:HG13	1:A:311:ALA:N	2.05	0.70
1:C:246:PHE:O	1:C:262:LEU:HD23	1.91	0.70
1:C:790:VAL:HG12	1:C:791:ARG:H	1.57	0.70
1:D:943:LEU:HD13	1:D:969:ARG:NH2	2.05	0.70
1:F:578:THR:OG1	1:F:623:SER:HB2	1.90	0.70
1:C:541:TYR:HA	1:C:544:ILE:HG22	1.74	0.70
1:C:189:ASP:HB3	1:C:192:LYS:HB2	1.73	0.70
1:F:375:VAL:O	1:F:379:THR:HG22	1.91	0.70
1:B:435:MET:O	1:B:439:GLN:HB2	1.92	0.70
1:F:453:PHE:HZ	1:F:932:THR:HB	1.57	0.70
1:B:171:GLY:HA3	1:B:302:THR:CG2	2.22	0.70
1:B:214:ILE:HD12	1:C:749:VAL:HG21	1.73	0.70
1:C:801:ASN:HA	1:C:804:ALA:HB2	1.72	0.70
1:E:64:VAL:HG21	1:E:118:LEU:HD23	1.74	0.70
1:E:159:VAL:HG21	1:E:181:GLN:HG3	1.74	0.70
2:E:2001:LMT:H122	2:E:2002:LMT:H122	1.73	0.70
1:F:413:VAL:O	1:F:417:GLU:HG2	1.91	0.70
1:B:159:VAL:HG12	1:B:163:GLN:NE2	2.06	0.69
1:B:273:GLN:HE22	1:B:769:ARG:NH1	1.90	0.69
1:C:922:ASN:OD1	1:C:926:PHE:CD2	2.45	0.69
1:D:151:LYS:HD3	1:D:278:ASN:HB3	1.73	0.69
1:A:210:GLN:NE2	1:A:249:ILE:HG23	2.07	0.69
1:D:630:MET:HE3	1:D:630:MET:HA	1.74	0.69
1:E:561:THR:HG22	1:E:922:ASN:HD22	1.57	0.69
1:F:342:LYS:O	1:F:346:GLU:HG3	1.92	0.69
1:F:785:LEU:HD12	1:F:786:SER:N	2.06	0.69
1:A:780:MET:CE	1:C:224:ALA:HB1	2.16	0.69
1:C:307:ARG:O	1:C:310:ILE:HG13	1.92	0.69
1:A:373:PRO:O	1:A:377:LEU:HB2	1.92	0.69
1:D:298:ASN:HD22	1:D:301:ASP:H	1.37	0.69
1:E:535:LEU:HD22	1:E:1025:VAL:HG21	1.74	0.69
1:F:396:PHE:CD2	1:F:1001:ILE:HG21	2.27	0.69
1:F:471:SER:O	1:F:475:VAL:HG22	1.92	0.69
1:F:577:GLN:HB3	1:F:662:MET:HB2	1.73	0.69
1:F:902:LEU:O	1:F:905:PRO:HD2	1.93	0.69
1:A:32:VAL:HG13	1:A:300:LEU:HD12	1.75	0.69
1:E:278:ASN:HD22	1:E:588:GLN:HE22	1.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:949:LYS:O	1:B:953:GLU:HG3	1.93	0.69
1:F:555:MET:HE2	1:F:913:LEU:HD23	1.73	0.69
1:D:901:MET:O	1:D:904:VAL:HG23	1.92	0.69
1:E:727:LYS:HE3	1:E:729:GLU:OE1	1.93	0.69
1:F:159:VAL:HG12	1:F:159:VAL:O	1.91	0.69
1:F:310:ILE:C	1:F:310:ILE:HD12	2.17	0.69
1:F:560:PRO:O	1:F:921:SER:HB2	1.93	0.69
1:F:600:GLU:HG3	1:F:601:LYS:H	1.58	0.69
1:A:586:ARG:HH11	1:A:586:ARG:HG3	1.58	0.69
1:B:981:ILE:HG13	1:B:982:LEU:H	1.58	0.69
1:C:402:ILE:HD12	1:C:403:GLY:N	2.04	0.69
1:D:417:GLU:HA	1:D:420:MET:HE3	1.75	0.69
1:D:684:LEU:HD11	1:D:826:ILE:CD1	2.21	0.69
1:F:503:GLY:O	1:F:505:HIS:N	2.26	0.69
1:A:780:MET:HE2	1:C:225:VAL:HG22	1.75	0.69
1:C:578:THR:HG21	1:C:587:THR:HA	1.75	0.69
1:D:80:SER:OG	1:D:817:ARG:HG2	1.92	0.69
1:E:678:THR:HG22	1:E:679:GLY:N	2.08	0.69
1:F:997:SER:O	1:F:1001:ILE:HG22	1.91	0.69
1:B:706:ALA:HB1	1:B:712:LEU:CD1	2.23	0.69
1:D:333:VAL:O	1:D:337:ILE:HG12	1.93	0.69
1:B:111:LEU:HD23	1:B:111:LEU:C	2.18	0.68
1:D:139:VAL:HG23	1:D:326:PRO:HD2	1.75	0.68
1:D:380:PHE:CZ	1:D:398:MET:HE3	2.28	0.68
1:D:572:LEU:HB3	1:D:629:ILE:HB	1.75	0.68
1:A:164:ASP:O	1:A:167:SER:HB2	1.93	0.68
1:C:142:VAL:CG2	1:C:321:MET:HE3	2.22	0.68
1:C:314:GLU:N	1:C:315:PRO:HD2	2.08	0.68
1:A:363:ARG:HD3	1:A:496:MET:O	1.93	0.68
1:C:357:LEU:HD23	1:C:357:LEU:C	2.18	0.68
1:D:904:VAL:HB	1:D:905:PRO:HD3	1.75	0.68
1:C:1:MET:HB3	2:C:2002:LMT:H6D	1.75	0.68
1:C:78:ILE:HG12	1:C:92:VAL:HG13	1.75	0.68
1:C:410:ILE:HD12	1:C:410:ILE:C	2.18	0.68
1:A:38:ILE:O	1:A:96:GLN:NE2	2.27	0.68
1:B:274:ASP:HB3	2:B:2001:LMT:O2'	1.93	0.68
1:C:740:VAL:HG21	1:C:745:ILE:HG23	1.76	0.68
1:F:64:VAL:HG12	1:F:114:ALA:HB1	1.75	0.68
1:A:142:VAL:HG23	1:A:154:LEU:HB3	1.74	0.68
1:A:423:GLU:CB	1:A:425:LEU:HD13	2.24	0.68
1:B:586:ARG:O	1:B:589:VAL:HG12	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:62:VAL:O	1:D:66:GLU:HG3	1.94	0.68
1:D:687:GLN:HE21	1:D:687:GLN:N	1.92	0.68
1:D:831:ALA:HB3	1:D:834:LEU:HD12	1.74	0.68
1:A:185:ARG:NH1	1:A:275:TYR:HE2	1.90	0.68
1:A:489:THR:HB	1:A:490:PRO:HD3	1.74	0.68
1:B:725:GLN:NE2	1:B:811:GLY:HA3	2.09	0.68
1:C:99:ASP:CG	1:C:102:ILE:HG23	2.19	0.68
1:C:686:ASP:OD2	1:C:689:GLY:HA2	1.93	0.68
1:C:782:PRO:O	1:C:785:LEU:HG	1.93	0.68
1:C:980:PHE:O	1:C:984:VAL:HG22	1.94	0.68
1:D:240:LEU:HB2	1:D:246:PHE:CZ	2.29	0.68
1:D:818:TYR:O	1:D:819:ASN:HB2	1.92	0.68
1:E:134:LYS:H	1:E:134:LYS:HZ2	1.39	0.68
1:B:997:SER:O	1:B:1001:ILE:HG22	1.94	0.68
1:D:228:GLN:HE21	1:D:230:LEU:N	1.91	0.68
1:A:710:PRO:O	1:A:831:ALA:HB2	1.93	0.68
1:B:617:PHE:CG	1:B:626:MET:HE1	2.28	0.68
1:D:820:GLY:O	1:D:821:VAL:HG23	1.93	0.68
1:E:714:ARG:HD2	1:E:829:GLU:CD	2.18	0.68
1:A:702:PHE:HZ	1:A:843:VAL:HG13	1.59	0.68
1:B:109:ASN:O	1:B:112:GLN:HB3	1.94	0.68
1:F:600:GLU:HG3	1:F:601:LYS:N	2.09	0.68
1:A:763:ASP:HB3	1:A:768:LYS:HD3	1.74	0.67
1:B:278:ASN:HB3	1:B:613:THR:HB	1.76	0.67
1:B:913:LEU:O	1:B:917:MET:HB2	1.94	0.67
1:D:139:VAL:HG22	1:D:327:TYR:HB3	1.76	0.67
1:E:724:PRO:HA	1:E:810:TYR:HA	1.76	0.67
1:E:878:LEU:CD1	2:E:2001:LMT:H31	2.24	0.67
1:F:498:LYS:H	1:F:498:LYS:CE	2.06	0.67
1:A:127:ILE:O	1:B:113:LEU:HG	1.94	0.67
1:A:745:ILE:O	1:A:749:VAL:HG23	1.95	0.67
1:A:904:VAL:HB	1:A:905:PRO:HD3	1.76	0.67
1:A:906:LEU:HD22	1:A:1015:LEU:HD23	1.75	0.67
1:C:402:ILE:CD1	1:C:403:GLY:H	2.07	0.67
1:C:530:GLY:O	1:C:534:ILE:HD13	1.94	0.67
1:C:605:SER:OG	1:C:647:LEU:HD13	1.95	0.67
1:E:278:ASN:HD22	1:E:588:GLN:NE2	1.91	0.67
1:E:981:ILE:O	1:E:985:VAL:HG23	1.94	0.67
1:A:634:TRP:CD1	1:A:634:TRP:H	2.10	0.67
1:C:407:ASP:OD2	1:C:939:LYS:HE3	1.95	0.67
1:D:310:ILE:C	1:D:312:ASN:H	2.03	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:637:ARG:HB3	1:D:642:ASN:HB3	1.76	0.67
1:D:692:HIS:CG	1:D:692:HIS:O	2.47	0.67
1:F:830:PRO:HB3	1:F:839:ALA:HB2	1.75	0.67
1:B:10:ILE:HG22	1:C:888:ALA:O	1.95	0.67
1:B:215:SER:HA	1:C:51:GLY:HA3	1.75	0.67
1:F:683:PHE:CE1	1:F:825:GLU:HB2	2.30	0.67
1:A:348:ILE:HD12	1:A:372:VAL:HG11	1.76	0.67
1:C:374:VAL:HG13	1:C:375:VAL:H	1.59	0.67
1:D:655:PHE:CE1	1:D:658:PHE:HB3	2.29	0.67
1:F:573:PHE:HB2	1:F:666:PHE:O	1.95	0.67
1:A:164:ASP:HB2	1:A:165:PRO:HD3	1.75	0.67
1:A:647:LEU:HD23	1:A:647:LEU:O	1.95	0.67
1:A:928:VAL:O	1:A:932:THR:HG22	1.95	0.67
1:B:850:LEU:HD13	1:B:854:VAL:HG12	1.76	0.67
1:C:281:PHE:CE1	1:C:608:SER:HB2	2.29	0.67
1:D:791:ARG:HB2	1:D:797:MET:HE3	1.77	0.67
1:E:597:TYR:CD2	1:E:598:LEU:HD22	2.30	0.67
1:F:355:MET:SD	1:F:368:PRO:HB2	2.35	0.67
1:F:716:ARG:HH12	1:F:827:LEU:HB2	1.57	0.67
1:B:14:VAL:HG21	1:C:889:ALA:HB2	1.76	0.67
1:B:555:MET:HE2	1:B:913:LEU:HA	1.75	0.67
1:B:930:LEU:O	1:B:934:ILE:HG23	1.95	0.67
1:C:480:LEU:O	1:C:484:VAL:HG13	1.94	0.67
1:E:690:VAL:HG12	1:E:694:VAL:HB	1.77	0.67
1:B:683:PHE:CE1	1:B:825:GLU:HB2	2.29	0.67
1:F:1014:VAL:HG23	1:F:1015:LEU:HD22	1.76	0.67
1:B:76:ARG:HD3	1:B:863:TYR:CE2	2.29	0.67
1:D:578:THR:HG22	1:D:661:ALA:HB2	1.77	0.67
1:F:164:ASP:HB3	1:F:168:ARG:NH2	2.09	0.67
1:F:504:ASP:O	1:F:505:HIS:C	2.38	0.67
1:A:219:LEU:HD13	1:A:234:ILE:HD11	1.74	0.67
1:A:400:LEU:HD23	1:A:932:THR:HG21	1.76	0.67
1:A:863:TYR:HA	1:A:866:ARG:HB3	1.76	0.67
1:A:909:ILE:HG13	1:A:910:GLY:H	1.59	0.67
1:A:940:ASN:HD22	1:A:973:ILE:HG23	1.60	0.67
1:C:30:LEU:HD11	1:C:384:ALA:HB2	1.77	0.67
1:C:52:ALA:HB1	1:C:56:THR:HB	1.76	0.67
1:C:254:ASN:HB3	1:C:255:PRO:HD2	1.76	0.67
1:E:210:GLN:OE1	1:E:249:ILE:HD13	1.96	0.67
1:F:712:LEU:HD23	1:F:715:VAL:HG21	1.76	0.67
1:B:753:TRP:CZ2	1:B:785:LEU:HB3	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:732:ASP:HB3	1:F:736:SER:HB2	1.75	0.66
1:A:340:VAL:HA	1:A:343:THR:HG23	1.76	0.66
1:C:943:LEU:HD23	1:C:973:ILE:HG12	1.76	0.66
1:D:182:TYR:O	1:D:768:LYS:HD3	1.96	0.66
1:E:164:ASP:HB3	1:E:165:PRO:HD3	1.77	0.66
1:A:63:GLN:HE21	1:A:817:ARG:NH1	1.94	0.66
1:A:218:GLN:HB2	1:A:232:ALA:O	1.94	0.66
1:B:241:GLN:HG2	1:B:762:ILE:O	1.96	0.66
1:B:592:ASP:C	1:B:594:MET:H	2.01	0.66
1:C:616:ASN:HD22	1:C:616:ASN:C	2.02	0.66
1:F:906:LEU:HA	1:F:909:ILE:HD11	1.77	0.66
1:C:1:MET:H2	2:C:2002:LMT:C6'	2.08	0.66
1:C:788:TRP:O	1:C:800:PHE:HB2	1.96	0.66
1:E:184:MET:HG2	1:E:246:PHE:CE2	2.30	0.66
1:A:140:VAL:HG22	1:A:325:TYR:CE1	2.31	0.66
1:A:900:VAL:O	1:A:903:VAL:HG22	1.94	0.66
1:D:47:VAL:H	1:D:88:MET:HE3	1.59	0.66
1:D:303:ALA:HB2	1:D:330:THR:HG21	1.77	0.66
1:F:55:GLU:H	1:F:55:GLU:CD	2.01	0.66
1:F:293:LEU:HD23	1:F:294:ALA:O	1.95	0.66
1:B:154:LEU:O	1:B:158:ILE:HG13	1.95	0.66
1:B:445:ILE:HD13	1:B:939:LYS:CG	2.23	0.66
1:B:906:LEU:HG	1:B:1015:LEU:HB2	1.76	0.66
1:C:555:MET:HE2	1:C:913:LEU:HD23	1.78	0.66
1:D:845:GLU:OE1	1:D:845:GLU:HA	1.95	0.66
1:E:190:PRO:HB2	1:E:787:LYS:O	1.96	0.66
1:E:197:GLN:HE21	1:E:252:LYS:NZ	1.94	0.66
1:E:631:LEU:CD1	1:E:644:VAL:HG22	2.25	0.66
1:E:830:PRO:HB3	1:E:839:ALA:HB2	1.77	0.66
1:E:977:SER:O	1:E:981:ILE:HG12	1.95	0.66
1:F:240:LEU:HG	1:F:245:GLN:HE21	1.61	0.66
1:A:598:LEU:HD13	1:A:602:GLU:HG3	1.78	0.66
1:A:684:LEU:HD11	1:A:826:ILE:HG13	1.76	0.66
1:B:60:THR:HG22	1:B:61:VAL:HG23	1.78	0.66
1:D:40:PRO:HD3	1:D:864:GLU:OE2	1.94	0.66
1:D:218:GLN:HB2	1:D:232:ALA:O	1.96	0.66
1:D:423:GLU:HG3	1:D:425:LEU:HD11	1.76	0.66
1:E:559:ILE:HD13	1:E:560:PRO:N	2.10	0.66
1:E:576:VAL:HG21	1:E:591:VAL:HG12	1.76	0.66
1:E:786:SER:HA	1:E:801:ASN:HD22	1.60	0.66
1:F:156:ASN:ND2	1:F:182:TYR:H	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:172:VAL:HG22	1:B:306:ILE:HD11	1.75	0.66
1:E:484:VAL:HG13	1:E:488:LEU:HB3	1.77	0.66
1:E:874:ALA:O	1:E:878:LEU:HG	1.95	0.66
1:F:250:LEU:HG	1:F:261:ARG:CZ	2.25	0.66
1:A:713:GLN:O	1:A:714:ARG:CB	2.44	0.66
1:B:203:VAL:O	1:B:207:ILE:HG13	1.95	0.66
1:C:330:THR:N	1:C:331:PRO:HD2	2.11	0.66
1:C:544:ILE:HD13	1:C:1019:TRP:HZ2	1.61	0.66
1:D:188:LEU:HA	1:D:266:ALA:HB2	1.78	0.66
1:E:231:ASN:O	1:F:581:GLY:HA2	1.96	0.66
1:E:895:SER:C	1:E:897:PRO:HD2	2.20	0.66
1:F:360:GLN:HB3	1:F:513:PHE:CD2	2.31	0.66
1:F:846:ILE:O	1:F:846:ILE:HG13	1.96	0.66
1:A:713:GLN:O	1:A:714:ARG:HB2	1.95	0.65
1:A:757:TYR:HB2	1:A:771:TYR:CE1	2.31	0.65
1:C:103:ALA:O	1:C:107:VAL:HG23	1.95	0.65
1:C:485:ALA:HA	1:C:489:THR:OG1	1.96	0.65
1:D:99:ASP:HB3	1:D:102:ILE:HD12	1.78	0.65
1:D:406:VAL:O	1:D:410:ILE:HG13	1.97	0.65
1:F:192:LYS:HE2	1:F:264:ASP:O	1.96	0.65
1:F:503:GLY:C	1:F:505:HIS:H	2.04	0.65
1:F:717:PRO:CA	1:F:826:ILE:HG22	2.24	0.65
1:A:690:VAL:CG2	1:A:694:VAL:HB	2.25	0.65
1:B:293:LEU:HG	1:B:297:ALA:HB3	1.77	0.65
1:C:156:ASN:HD21	1:C:768:LYS:HE2	1.61	0.65
1:C:377:LEU:O	1:C:380:PHE:HB2	1.96	0.65
1:D:987:LEU:HA	1:D:998:GLN:HE21	1.61	0.65
1:C:406:VAL:O	1:C:407:ASP:C	2.35	0.65
1:C:887:LEU:HD13	1:C:900:VAL:HG21	1.79	0.65
1:D:219:LEU:HB2	1:D:232:ALA:H	1.61	0.65
1:C:408:ASP:OD2	1:C:445:ILE:HD11	1.97	0.65
1:D:569:GLN:N	1:D:634:TRP:CH2	2.64	0.65
1:D:895:SER:C	1:D:897:PRO:HD2	2.22	0.65
1:A:61:VAL:O	1:A:64:VAL:HG12	1.96	0.65
1:D:731:ASP:OD2	1:D:734:LYS:HD3	1.96	0.65
1:E:674:LEU:HD11	1:E:861:LEU:HD21	1.77	0.65
1:F:723:GLU:O	1:F:810:TYR:HB2	1.96	0.65
1:D:220:GLY:H	1:D:231:ASN:HA	1.62	0.65
1:E:276:SER:C	1:E:277:ILE:HD12	2.21	0.65
1:F:47:VAL:HG22	1:F:127:ILE:HG23	1.78	0.65
1:A:377:LEU:CD1	2:A:1101:LMT:H101	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:560:PRO:O	1:A:921:SER:HB2	1.96	0.65
1:C:283:GLY:H	1:C:595:ARG:CZ	2.10	0.65
1:A:449:LEU:C	1:A:449:LEU:HD13	2.21	0.65
1:A:734:LYS:O	1:A:738:LEU:HD13	1.95	0.65
1:B:575:GLN:HE21	1:B:617:PHE:HB2	1.61	0.65
1:B:987:LEU:HD13	1:B:1001:ILE:HD12	1.78	0.65
1:E:347:ALA:O	1:E:351:VAL:HG23	1.96	0.65
1:F:138:MET:SD	1:F:291:ILE:HD11	2.37	0.65
1:F:936:LEU:HD11	1:F:980:PHE:CE2	2.32	0.65
1:E:420:MET:HE1	1:E:427:PRO:CA	2.27	0.65
1:E:716:ARG:NH1	1:E:827:LEU:HB3	2.12	0.65
1:E:970:LEU:O	1:E:974:VAL:HG23	1.97	0.65
1:A:72:ILE:HD11	1:A:110:LYS:HG2	1.79	0.65
1:A:303:ALA:CB	1:A:330:THR:HG21	2.26	0.65
1:B:46:GLN:HA	1:B:88:MET:HE3	1.79	0.65
1:D:466:ILE:HG13	1:D:563:PHE:HE1	1.62	0.65
1:D:713:GLN:HE21	1:D:714:ARG:HG3	1.61	0.65
1:E:11:PHE:CE1	1:E:15:ILE:HD11	2.32	0.65
1:E:680:PHE:CZ	1:E:828:GLY:HA3	2.32	0.65
1:A:478:MET:O	1:A:482:VAL:HG23	1.96	0.64
1:B:971:ARG:HB3	1:B:972:PRO:HD3	1.79	0.64
1:D:78:ILE:HD12	1:D:91:THR:O	1.96	0.64
1:A:121:GLU:CD	1:A:121:GLU:H	2.06	0.64
1:A:498:LYS:H	1:A:499:PRO:HD2	1.61	0.64
1:A:749:VAL:HG13	1:A:753:TRP:CE3	2.31	0.64
1:C:655:PHE:HA	1:C:658:PHE:HB2	1.80	0.64
1:D:56:THR:HG23	1:F:213:GLN:HG2	1.79	0.64
1:D:847:VAL:HG21	1:D:856:TYR:CD2	2.32	0.64
1:D:896:ILE:N	1:D:897:PRO:HD2	2.12	0.64
1:E:469:GLN:O	1:E:473:THR:HG22	1.98	0.64
1:F:200:PRO:HG3	1:F:748:THR:HG23	1.79	0.64
1:F:466:ILE:HG13	1:F:467:TYR:N	2.11	0.64
1:F:908:VAL:HG12	1:F:912:LEU:HG	1.79	0.64
1:C:414:GLU:OE1	1:C:971:ARG:HD3	1.97	0.64
1:C:987:LEU:HD23	1:C:998:GLN:NE2	2.12	0.64
1:D:115:THR:HA	1:D:118:LEU:HD22	1.77	0.64
1:D:655:PHE:HZ	1:D:660:ASP:HB3	1.62	0.64
1:D:780:MET:HE2	1:F:225:VAL:HG22	1.79	0.64
1:D:910:GLY:HA3	1:D:1011:THR:OG1	1.97	0.64
1:F:38:ILE:HD11	1:F:674:LEU:HD21	1.78	0.64
1:B:143:VAL:CG2	1:B:281:PHE:HB3	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:453:PHE:CE2	1:F:474:ILE:HG21	2.32	0.64
1:A:244:GLU:CD	1:A:244:GLU:H	2.05	0.64
1:C:149:MET:SD	1:C:318:PRO:HG3	2.37	0.64
1:C:199:THR:HB	1:C:200:PRO:HD2	1.79	0.64
1:C:240:LEU:HG	1:C:245:GLN:HB3	1.79	0.64
1:C:489:THR:HB	1:C:490:PRO:HD3	1.78	0.64
1:C:910:GLY:O	1:C:1007:GLY:HA3	1.98	0.64
1:D:27:ILE:CG2	2:D:2002:LMT:H41	2.26	0.64
1:E:310:ILE:HG21	1:E:323:VAL:HG21	1.79	0.64
1:A:56:THR:O	1:A:60:THR:CG2	2.43	0.64
1:C:548:ILE:CG2	1:C:909:ILE:HD13	2.28	0.64
1:F:83:ASN:HD22	1:F:83:ASN:N	1.94	0.64
1:B:326:PRO:HB2	1:B:630:MET:SD	2.38	0.64
1:C:3:LYS:NZ	2:C:2002:LMT:O3B	2.31	0.64
1:D:351:VAL:HG12	1:D:355:MET:HE2	1.79	0.64
1:A:17:LEU:HD21	2:A:1102:LMT:H52	1.78	0.64
1:D:36:PRO:O	1:D:38:ILE:HG23	1.97	0.64
1:E:578:THR:HG22	1:E:661:ALA:HB2	1.80	0.64
1:B:583:SER:HA	1:B:622:GLN:HE21	1.63	0.64
1:C:143:VAL:HG23	1:C:286:ALA:HB2	1.80	0.64
1:C:420:MET:HG2	1:C:500:ILE:HG22	1.80	0.64
1:D:154:LEU:O	1:D:158:ILE:HG12	1.97	0.64
1:D:684:LEU:N	1:D:684:LEU:CD1	2.60	0.64
1:E:157:TYR:OH	1:E:317:MET:HA	1.98	0.64
1:E:732:ASP:CG	1:E:733:GLU:H	2.05	0.64
1:F:187:TRP:HZ3	1:F:773:GLN:HB3	1.63	0.64
1:A:459:PHE:O	1:A:464:GLY:HA3	1.98	0.64
1:A:498:LYS:N	1:A:499:PRO:HD2	2.13	0.64
1:A:943:LEU:HD13	1:A:969:ARG:NH2	2.12	0.64
1:B:30:LEU:HD23	1:B:390:ILE:HD11	1.80	0.64
1:B:351:VAL:O	1:B:355:MET:HB2	1.98	0.64
1:B:352:PHE:CE1	1:B:365:THR:HG21	2.33	0.64
1:C:277:ILE:HA	1:C:613:THR:O	1.98	0.64
1:D:213:GLN:HB2	1:D:239:ARG:HG3	1.80	0.64
2:F:2001:LMT:O2B	2:F:2001:LMT:C4'	2.45	0.64
1:B:357:LEU:HD11	1:B:516:PHE:CE1	2.33	0.63
1:C:391:ASN:HD22	1:C:391:ASN:N	1.95	0.63
1:C:453:PHE:HZ	1:C:932:THR:HB	1.63	0.63
1:C:682:LEU:HD21	1:C:826:ILE:HG13	1.80	0.63
1:D:445:ILE:HD12	1:D:939:LYS:HE3	1.80	0.63
1:D:776:PRO:O	1:D:780:MET:HG2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:558:ARG:HB3	1:E:558:ARG:NH1	2.12	0.63
1:E:631:LEU:HD12	1:E:644:VAL:HG22	1.79	0.63
1:E:900:VAL:HG23	1:E:941:ALA:CB	2.26	0.63
1:F:410:ILE:C	1:F:410:ILE:HD12	2.23	0.63
1:A:554:TRP:CH2	1:A:558:ARG:HD2	2.33	0.63
1:B:558:ARG:HD2	1:B:558:ARG:O	1.98	0.63
1:D:637:ARG:N	1:D:638:PRO:HD3	2.13	0.63
1:D:958:ILE:HD13	1:D:959:VAL:H	1.62	0.63
1:D:969:ARG:O	1:D:972:PRO:HG2	1.97	0.63
1:E:574:ALA:O	1:E:626:MET:HB2	1.97	0.63
1:E:578:THR:HG21	1:E:590:VAL:HG21	1.81	0.63
1:E:650:ARG:HB3	1:E:650:ARG:NH1	2.12	0.63
1:F:328:ASP:H	1:F:630:MET:HE1	1.64	0.63
1:F:726:TYR:O	1:F:727:LYS:HB2	1.97	0.63
1:F:733:GLU:HG3	1:F:734:LYS:N	2.13	0.63
1:B:247:GLU:HB3	1:B:263:LYS:HB3	1.79	0.63
1:C:317:MET:HE2	1:C:321:MET:HE2	1.79	0.63
1:C:414:GLU:O	1:C:417:GLU:N	2.30	0.63
1:C:858:TRP:HE1	1:C:866:ARG:NH2	1.96	0.63
1:D:541:TYR:HA	1:D:544:ILE:CG2	2.27	0.63
1:D:999:HIS:O	1:D:1003:THR:HG23	1.98	0.63
1:E:411:VAL:HB	1:E:969:ARG:HH22	1.64	0.63
1:F:730:ILE:H	1:F:730:ILE:CD1	2.11	0.63
1:A:462:SER:O	1:A:466:ILE:HG12	1.99	0.63
1:A:578:THR:HB	1:A:579:PRO:HD2	1.80	0.63
1:B:111:LEU:HD23	1:B:111:LEU:O	1.98	0.63
1:C:418:ARG:HD2	1:C:968:MET:HE2	1.79	0.63
1:C:448:VAL:O	1:C:452:VAL:HG23	1.99	0.63
1:C:683:PHE:CZ	1:C:825:GLU:HB2	2.34	0.63
1:D:448:VAL:HG22	1:D:886:CYS:HB3	1.80	0.63
1:C:699:ARG:HH12	1:C:721:SER:HA	1.63	0.63
1:E:629:ILE:HD12	1:E:629:ILE:N	2.13	0.63
1:A:959:VAL:O	1:A:963:ILE:HG12	1.98	0.63
1:B:111:LEU:C	1:B:111:LEU:CD2	2.72	0.63
1:B:367:ILE:HB	1:B:368:PRO:HD3	1.81	0.63
1:C:548:ILE:HG23	1:C:909:ILE:HD13	1.80	0.63
1:C:816:GLU:OE1	1:C:824:MET:HA	1.99	0.63
1:D:466:ILE:HG13	1:D:563:PHE:CE1	2.33	0.63
1:D:666:PHE:HB3	1:D:714:ARG:HH22	1.64	0.63
1:E:718:ASN:HB3	1:E:825:GLU:HB3	1.79	0.63
1:F:199:THR:HB	1:F:200:PRO:HD2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:568:ASP:OD1	1:F:644:VAL:HG22	1.98	0.63
1:A:638:PRO:O	1:A:642:ASN:HB2	1.99	0.63
1:B:76:ARG:NH2	1:B:96:GLN:OE1	2.31	0.63
1:B:243:ALA:O	1:B:247:GLU:HG3	1.98	0.63
1:B:829:GLU:HB2	1:B:830:PRO:CD	2.27	0.63
1:C:142:VAL:O	1:C:286:ALA:HB1	1.99	0.63
1:C:281:PHE:HE1	1:C:608:SER:HB2	1.64	0.63
1:C:412:VAL:O	1:C:416:VAL:HG23	1.99	0.63
1:C:801:ASN:HA	1:C:804:ALA:CB	2.28	0.63
1:D:906:LEU:O	1:D:1011:THR:HB	1.98	0.63
1:E:801:ASN:HA	1:E:804:ALA:HB2	1.79	0.63
1:A:760:ASP:HB3	1:A:768:LYS:O	1.98	0.63
1:B:317:MET:HE1	1:B:323:VAL:HG13	1.80	0.63
1:C:95:GLU:HG3	1:C:96:GLN:O	1.98	0.63
1:C:372:VAL:O	1:C:376:LEU:HB2	1.98	0.63
1:D:224:ALA:HB1	1:E:780:MET:HE1	1.81	0.63
1:D:405:LEU:C	1:D:405:LEU:CD1	2.72	0.63
1:E:191:ALA:C	1:E:193:LEU:H	2.06	0.63
1:F:631:LEU:HD11	1:F:644:VAL:HG13	1.80	0.63
1:A:895:SER:C	1:A:897:PRO:HD2	2.24	0.63
1:B:878:LEU:CD1	2:B:2004:LMT:H32	2.28	0.63
1:C:99:ASP:OD1	1:C:102:ILE:HG23	1.99	0.63
1:C:138:MET:HE1	1:C:306:ILE:HD11	1.80	0.63
1:C:570:GLY:HA2	1:C:631:LEU:HD12	1.80	0.63
1:C:745:ILE:HG22	1:C:790:VAL:HG21	1.81	0.63
1:D:336:SER:O	1:D:340:VAL:HG23	1.98	0.63
1:D:923:ASP:O	1:D:927:GLN:HG3	1.98	0.63
1:E:698:ALA:HB2	1:E:854:VAL:HG21	1.80	0.63
1:E:865:GLU:HA	1:E:868:SER:HB2	1.79	0.63
1:A:896:ILE:N	1:A:897:PRO:HD2	2.14	0.62
1:B:347:ALA:O	1:B:351:VAL:HG23	1.98	0.62
1:C:47:VAL:HG22	1:C:127:ILE:HG13	1.82	0.62
1:C:262:LEU:HD12	1:C:265:VAL:CG2	2.29	0.62
1:D:602:GLU:O	1:D:604:SER:N	2.32	0.62
1:A:56:THR:HG23	1:C:213:GLN:HG2	1.79	0.62
1:A:58:GLN:HA	1:A:62:VAL:HB	1.81	0.62
1:A:344:LEU:HD22	1:A:402:ILE:HD11	1.80	0.62
1:B:624:SER:OG	1:B:720:MET:HE1	1.99	0.62
1:B:970:LEU:O	1:B:974:VAL:HG23	1.99	0.62
1:C:790:VAL:HG12	1:C:791:ARG:N	2.13	0.62
1:D:454:LEU:HD12	2:D:2001:LMT:C10	2.26	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:749:VAL:O	1:E:753:TRP:HB2	1.98	0.62
1:F:680:PHE:CZ	1:F:828:GLY:HA3	2.34	0.62
1:F:903:VAL:HG21	1:F:1020:VAL:HG22	1.81	0.62
1:F:987:LEU:HA	1:F:998:GLN:HE21	1.64	0.62
1:A:367:ILE:HB	1:A:368:PRO:HD3	1.80	0.62
1:B:716:ARG:H	1:B:716:ARG:HD3	1.64	0.62
1:B:753:TRP:HZ2	1:B:785:LEU:HB3	1.63	0.62
1:B:781:ASN:H	1:B:784:ASP:CG	2.07	0.62
1:C:102:ILE:O	1:C:106:GLN:HG3	2.00	0.62
1:C:374:VAL:HG13	1:C:375:VAL:N	2.14	0.62
1:C:435:MET:HA	1:C:435:MET:CE	2.28	0.62
1:C:454:LEU:HB2	1:C:455:PRO:CD	2.29	0.62
1:D:283:GLY:HA2	1:D:595:ARG:NH1	2.14	0.62
1:D:598:LEU:O	1:D:602:GLU:HB2	1.99	0.62
1:A:47:VAL:HG22	1:A:48:SER:N	2.15	0.62
1:A:947:PHE:HD2	1:A:969:ARG:HD3	1.65	0.62
1:A:1009:MET:O	1:A:1013:THR:HG23	1.99	0.62
1:B:192:LYS:O	1:B:265:VAL:HG12	1.99	0.62
1:C:884:PHE:CD1	1:C:897:PRO:HB2	2.34	0.62
1:D:233:THR:O	1:E:725:GLN:HB2	1.99	0.62
1:D:293:LEU:HD11	1:D:302:THR:HG21	1.80	0.62
1:F:187:TRP:HA	1:F:773:GLN:O	1.99	0.62
1:A:112:GLN:HG3	1:B:112:GLN:CD	2.24	0.62
1:A:240:LEU:HB2	1:A:246:PHE:CE1	2.35	0.62
1:A:498:LYS:H	1:A:499:PRO:CD	2.13	0.62
1:A:584:ALA:N	1:A:622:GLN:HE21	1.98	0.62
1:B:46:GLN:O	1:B:127:ILE:HA	1.99	0.62
1:B:156:ASN:HD21	1:B:768:LYS:NZ	1.98	0.62
1:B:745:ILE:HD13	1:B:790:VAL:HG21	1.82	0.62
1:D:303:ALA:CB	1:D:330:THR:HG21	2.29	0.62
1:E:127:ILE:H	1:E:127:ILE:HD12	1.64	0.62
1:E:575:GLN:HE21	1:E:666:PHE:HZ	1.46	0.62
1:C:341:VAL:O	1:C:344:LEU:HB3	1.98	0.62
1:F:699:ARG:HD2	1:F:824:MET:CE	2.30	0.62
1:A:62:VAL:O	1:A:66:GLU:HG3	1.98	0.62
1:A:931:LEU:C	1:A:933:THR:H	2.08	0.62
1:C:390:ILE:HA	1:C:394:THR:HG21	1.81	0.62
1:D:244:GLU:HA	1:D:247:GLU:HG2	1.82	0.62
1:D:344:LEU:HB2	1:D:399:VAL:HG22	1.82	0.62
1:D:541:TYR:C	1:D:544:ILE:HG22	2.25	0.62
1:E:191:ALA:O	1:E:193:LEU:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:150:THR:CG2	1:F:152:GLU:HG2	2.28	0.62
1:F:498:LYS:HE3	1:F:498:LYS:N	2.11	0.62
1:A:983:GLY:O	1:A:986:PRO:HD2	2.00	0.62
1:C:471:SER:O	1:C:475:VAL:HG13	2.00	0.62
1:C:908:VAL:HG13	1:C:930:LEU:CD2	2.29	0.62
1:D:17:LEU:HD21	2:D:2003:LMT:H41	1.81	0.62
1:D:429:GLU:OE1	1:D:432:ARG:HD3	2.00	0.62
1:D:442:LEU:H	1:D:442:LEU:HD12	1.65	0.62
1:B:134:LYS:HZ2	1:B:134:LYS:N	1.94	0.62
1:B:650:ARG:HG2	1:B:650:ARG:NH1	2.14	0.62
1:B:676:ASN:O	1:B:861:LEU:HD12	1.99	0.62
1:D:1031:PHE:CD2	1:D:1031:PHE:N	2.68	0.62
1:A:75:LEU:HD23	1:A:75:LEU:C	2.25	0.62
1:C:468:ARG:O	1:C:472:ILE:HG22	1.99	0.62
1:E:493:CYS:O	1:E:497:LEU:HB2	2.00	0.62
1:E:618:ALA:HB1	1:E:718:ASN:O	2.00	0.62
2:E:2001:LMT:C12	2:E:2002:LMT:H111	2.29	0.62
1:A:99:ASP:OD2	1:A:102:ILE:HG12	2.00	0.61
1:A:468:ARG:HG3	1:A:468:ARG:HH11	1.64	0.61
1:A:569:GLN:H	1:A:634:TRP:HH2	1.48	0.61
1:A:933:THR:HG23	1:A:1009:MET:HE2	1.81	0.61
1:B:49:TYR:HE2	1:B:60:THR:HG21	1.64	0.61
1:B:469:GLN:O	1:B:473:THR:HG22	2.00	0.61
1:B:933:THR:HG23	1:B:1009:MET:HE2	1.82	0.61
1:C:118:LEU:O	1:C:123:GLN:NE2	2.33	0.61
1:C:283:GLY:H	1:C:595:ARG:NH2	1.98	0.61
1:C:439:GLN:HG2	2:C:2002:LMT:H6'1	1.82	0.61
1:C:908:VAL:HG13	1:C:930:LEU:HD22	1.81	0.61
1:D:541:TYR:CA	1:D:544:ILE:HG22	2.30	0.61
1:E:682:LEU:HD12	1:E:856:TYR:HB2	1.82	0.61
1:F:520:PHE:O	1:F:523:THR:HG22	2.00	0.61
1:F:530:GLY:O	1:F:534:ILE:HG13	1.99	0.61
1:B:157:TYR:CG	1:B:321:MET:HE1	2.35	0.61
1:B:713:GLN:NE2	1:B:832:PRO:HD3	2.15	0.61
1:C:184:MET:HE2	1:C:268:VAL:HG13	1.83	0.61
1:C:376:LEU:HA	1:C:379:THR:HG22	1.81	0.61
1:C:964:GLU:OE1	1:C:964:GLU:HA	2.00	0.61
1:D:218:GLN:HA	1:D:234:ILE:HG13	1.82	0.61
1:C:121:GLU:HA	1:C:124:ARG:NH1	2.15	0.61
1:C:598:LEU:CD2	1:C:606:VAL:HG21	2.30	0.61
1:F:58:GLN:O	1:F:63:GLN:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:782:PRO:O	1:F:785:LEU:HG	2.00	0.61
1:F:943:LEU:HB3	1:F:973:ILE:HD11	1.81	0.61
1:A:210:GLN:NE2	1:A:250:LEU:H	1.95	0.61
1:B:243:ALA:O	1:B:268:VAL:HG11	2.00	0.61
1:C:592:ASP:O	1:C:595:ARG:HG3	2.00	0.61
1:C:875:LEU:HD21	1:C:931:LEU:HD11	1.81	0.61
1:E:138:MET:HE3	1:E:306:ILE:HD12	1.83	0.61
1:E:349:LEU:O	1:E:352:PHE:HB3	2.01	0.61
1:F:251:LEU:HB2	1:F:260:VAL:HB	1.82	0.61
1:A:10:ILE:HG23	1:B:894:TRP:CZ2	2.35	0.61
1:A:63:GLN:OE1	1:C:767:VAL:HG23	2.00	0.61
1:C:237:LYS:C	1:C:238:THR:HG23	2.25	0.61
1:C:747:SER:OG	1:C:751:ILE:HD11	2.01	0.61
1:D:10:ILE:HG23	1:E:894:TRP:CZ2	2.35	0.61
1:D:437:GLN:O	1:D:438:ILE:HG12	1.99	0.61
1:D:908:VAL:HG22	1:D:930:LEU:HD11	1.82	0.61
1:D:943:LEU:CD1	1:D:969:ARG:HH21	2.11	0.61
1:E:46:GLN:HG2	1:E:89:THR:OG1	2.01	0.61
1:E:61:VAL:HG12	1:E:88:MET:HE3	1.81	0.61
1:F:273:GLN:NE2	1:F:769:ARG:HH21	1.98	0.61
1:A:388:PHE:CE2	1:A:472:ILE:HG13	2.35	0.61
1:C:181:GLN:OE1	1:C:766:ARG:HD3	2.01	0.61
1:C:598:LEU:HD23	1:C:606:VAL:HG21	1.83	0.61
1:C:910:GLY:O	1:C:1007:GLY:C	2.44	0.61
1:F:749:VAL:HA	1:F:753:TRP:CE3	2.35	0.61
1:A:39:ALA:HB3	1:A:673:GLU:HG2	1.81	0.61
1:B:115:THR:HA	1:B:118:LEU:HD12	1.82	0.61
1:D:341:VAL:O	1:D:344:LEU:HB3	2.01	0.61
1:E:127:ILE:HD12	1:E:127:ILE:N	2.15	0.61
1:F:321:MET:O	1:F:322:LYS:C	2.43	0.61
1:A:169:THR:O	1:A:170:LYS:C	2.44	0.61
1:A:663:VAL:O	1:A:663:VAL:HG12	1.99	0.61
1:B:338:HIS:C	1:B:340:VAL:H	2.06	0.61
1:D:699:ARG:O	1:D:702:PHE:N	2.34	0.61
1:D:891:TYR:OH	1:D:942:ILE:HG23	2.00	0.61
1:E:314:GLU:OE2	1:E:323:VAL:HG22	2.01	0.61
1:E:878:LEU:HD13	2:E:2001:LMT:H31	1.83	0.61
1:E:905:PRO:CA	1:E:908:VAL:HG12	2.24	0.61
1:A:616:ASN:HB2	1:A:624:SER:HB3	1.81	0.61
1:D:27:ILE:HG23	2:D:2002:LMT:H41	1.81	0.61
1:D:185:ARG:HH11	1:D:771:TYR:CB	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:309:THR:O	1:D:312:ASN:HB3	2.01	0.61
1:E:212:VAL:HG22	1:E:213:GLN:H	1.65	0.61
1:E:217:GLY:O	1:E:234:ILE:HG12	2.01	0.61
1:B:729:GLU:HB2	1:B:805:THR:CG2	2.31	0.61
1:B:868:SER:HA	1:B:871:GLN:HE21	1.64	0.61
1:C:310:ILE:HD12	1:C:311:ALA:N	2.16	0.61
1:D:6:ILE:HG22	1:D:6:ILE:O	2.00	0.61
1:D:605:SER:HA	1:D:637:ARG:HD2	1.83	0.61
1:A:637:ARG:O	1:A:637:ARG:HG3	2.00	0.60
1:B:499:PRO:O	1:B:500:ILE:HD13	2.01	0.60
1:D:112:GLN:HG3	1:E:112:GLN:CD	2.26	0.60
1:D:382:VAL:HG21	1:D:476:SER:OG	2.01	0.60
1:D:543:LEU:O	1:D:547:VAL:HG23	2.01	0.60
1:E:493:CYS:HA	1:E:497:LEU:HD22	1.82	0.60
1:E:690:VAL:HG13	1:E:694:VAL:HB	1.81	0.60
1:A:5:PHE:HB3	1:A:12:ALA:HB2	1.83	0.60
1:B:181:GLN:NE2	1:B:768:LYS:HG2	2.16	0.60
1:B:352:PHE:HE1	1:B:365:THR:HG21	1.65	0.60
1:B:699:ARG:O	1:B:703:LEU:HG	2.01	0.60
1:C:278:ASN:HB2	1:C:613:THR:OG1	2.02	0.60
1:C:280:GLN:HB2	1:C:611:THR:CG2	2.30	0.60
1:C:391:ASN:ND2	1:C:394:THR:HB	2.17	0.60
1:D:388:PHE:CE2	1:D:472:ILE:HG13	2.36	0.60
1:E:47:VAL:HG11	1:E:122:VAL:CG1	2.31	0.60
1:E:1016:ALA:O	1:E:1020:VAL:HG23	2.00	0.60
1:F:722:ASP:HA	1:F:813:PRO:HD3	1.82	0.60
1:F:905:PRO:O	1:F:909:ILE:HG12	2.01	0.60
1:A:15:ILE:O	1:A:19:ILE:HG13	2.00	0.60
1:A:966:CYS:SG	1:A:1021:PRO:HB3	2.41	0.60
1:C:42:ALA:HB3	1:C:132:ALA:HB3	1.83	0.60
1:C:391:ASN:H	1:C:394:THR:CG2	2.13	0.60
1:E:223:PRO:HD3	1:F:275:TYR:CD2	2.37	0.60
1:E:330:THR:OG1	1:E:331:PRO:HD3	2.01	0.60
1:B:438:ILE:HG13	1:B:439:GLN:H	1.65	0.60
1:B:592:ASP:C	1:B:594:MET:N	2.58	0.60
1:C:47:VAL:CG2	1:C:127:ILE:HG23	2.31	0.60
1:C:150:THR:HG22	1:C:153:ASP:OD1	2.01	0.60
1:C:705:LEU:HD11	1:C:849:GLN:NE2	2.17	0.60
1:E:368:PRO:HB3	1:E:409:ALA:HB1	1.84	0.60
1:F:596:GLU:O	1:F:600:GLU:HG2	2.00	0.60
1:F:849:GLN:C	1:F:850:LEU:HD12	2.26	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:887:LEU:HD13	1:A:900:VAL:CG1	2.32	0.60
1:B:14:VAL:HG13	1:C:885:LEU:HB3	1.83	0.60
1:B:308:GLN:HE21	1:B:308:GLN:HA	1.66	0.60
1:D:545:TYR:HA	1:D:548:ILE:HD12	1.83	0.60
1:D:709:ASN:HD22	1:D:846:ILE:HD11	1.66	0.60
1:D:844:GLU:C	1:D:847:VAL:HG12	2.27	0.60
1:E:156:ASN:ND2	1:E:182:TYR:H	1.97	0.60
1:E:683:PHE:HA	1:E:824:MET:O	2.01	0.60
1:F:157:TYR:CE2	1:F:317:MET:HG2	2.37	0.60
1:A:649:LYS:HA	1:A:652:GLN:CB	2.31	0.60
1:A:830:PRO:HB3	1:A:839:ALA:HB2	1.82	0.60
1:B:222:LEU:HD21	1:C:622:GLN:NE2	2.15	0.60
1:C:448:VAL:HG12	1:C:883:VAL:HG13	1.81	0.60
1:C:743:ALA:HB1	1:C:746:ASN:OD1	2.01	0.60
1:D:319:GLN:H	1:D:319:GLN:CD	2.09	0.60
1:D:472:ILE:O	1:D:476:SER:HB2	2.01	0.60
1:F:537:HIS:O	1:F:538:ARG:C	2.45	0.60
1:F:733:GLU:HG3	1:F:734:LYS:HG2	1.82	0.60
1:A:47:VAL:HG12	1:A:88:MET:HE3	1.82	0.60
1:B:456:MET:HE3	1:B:471:SER:HB2	1.84	0.60
1:E:310:ILE:O	1:E:314:GLU:HG3	2.02	0.60
1:E:594:MET:HE3	1:E:655:PHE:CE2	2.36	0.60
1:F:102:ILE:O	1:F:106:GLN:HG3	2.00	0.60
1:F:156:ASN:O	1:F:160:SER:HB2	2.01	0.60
1:B:47:VAL:CG2	1:B:88:MET:HE2	2.32	0.60
1:B:129:VAL:H	1:C:112:GLN:NE2	1.99	0.60
1:D:49:TYR:CE2	1:D:121:GLU:HG3	2.36	0.60
1:D:324:VAL:HG22	1:D:325:TYR:N	2.17	0.60
1:F:58:GLN:NE2	1:F:815:LEU:HD12	2.15	0.60
1:F:62:VAL:O	1:F:66:GLU:HB2	2.02	0.60
1:F:99:ASP:O	1:F:102:ILE:HG12	2.02	0.60
1:F:184:MET:HA	1:F:184:MET:HE3	1.83	0.60
1:A:289:ILE:H	1:A:289:ILE:HD12	1.65	0.60
1:B:47:VAL:HG11	1:B:127:ILE:HG13	1.83	0.60
1:B:386:PHE:CZ	2:B:2003:LMT:H81	2.37	0.60
1:C:833:GLY:O	1:C:834:LEU:HD23	2.01	0.60
1:C:959:VAL:O	1:C:960:GLU:C	2.45	0.60
1:D:78:ILE:CD1	1:D:92:VAL:HG22	2.30	0.60
1:E:185:ARG:CZ	1:E:771:TYR:HB3	2.32	0.60
1:E:637:ARG:N	1:E:638:PRO:HD3	2.16	0.60
1:E:640:GLY:O	1:E:646:GLU:HG3	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:2001:LMT:C12	2:E:2002:LMT:C11	2.80	0.60
1:A:605:SER:O	1:A:632:LYS:HG2	2.02	0.60
1:C:635:GLU:CD	1:C:635:GLU:H	2.10	0.60
1:C:665:ALA:O	1:C:714:ARG:NH1	2.35	0.60
1:D:731:ASP:C	1:D:733:GLU:H	2.10	0.60
1:D:871:GLN:NE2	2:D:2001:LMT:O3B	2.35	0.60
1:F:616:ASN:HD22	1:F:616:ASN:C	2.10	0.60
1:A:884:PHE:CB	1:A:901:MET:HE2	2.29	0.59
1:C:219:LEU:CG	1:C:234:ILE:HD11	2.30	0.59
1:C:445:ILE:HG13	1:C:446:ALA:N	2.17	0.59
1:C:464:GLY:O	1:C:468:ARG:HB2	2.01	0.59
1:E:78:ILE:HG12	1:E:79:SER:N	2.16	0.59
1:F:367:ILE:HB	1:F:368:PRO:CD	2.31	0.59
1:A:602:GLU:O	1:A:604:SER:N	2.34	0.59
1:C:395:MET:O	1:C:398:MET:HB2	2.01	0.59
1:C:690:VAL:HG22	1:C:694:VAL:HG21	1.85	0.59
1:D:54:ALA:CB	1:D:815:LEU:HD23	2.31	0.59
1:D:99:ASP:OD1	1:D:101:ASP:HB2	2.02	0.59
1:D:393:LEU:HD11	1:D:466:ILE:HG23	1.83	0.59
1:E:143:VAL:HG22	1:E:144:SER:N	2.18	0.59
1:E:366:LEU:O	1:E:370:ILE:HG13	2.01	0.59
1:F:500:ILE:O	1:F:501:GLU:O	2.20	0.59
1:A:451:ALA:HB1	1:A:882:VAL:CG1	2.33	0.59
1:B:984:VAL:HG21	1:B:1005:VAL:HG21	1.83	0.59
1:D:243:ALA:O	1:D:268:VAL:HG11	2.02	0.59
1:C:396:PHE:O	1:C:399:VAL:N	2.33	0.59
1:D:524:THR:O	1:D:528:GLU:HG3	2.02	0.59
1:E:643:SER:HB3	1:E:646:GLU:CG	2.31	0.59
1:F:685:GLN:HA	1:F:823:ALA:HB2	1.83	0.59
1:A:27:ILE:HG23	2:A:1101:LMT:H31	1.85	0.59
1:A:560:PRO:HB3	1:A:833:GLY:O	2.03	0.59
1:B:463:THR:HG22	1:B:563:PHE:HE1	1.67	0.59
1:D:20:MET:HE2	1:D:374:VAL:HG22	1.84	0.59
1:D:228:GLN:NE2	1:D:230:LEU:HB3	2.17	0.59
1:E:60:THR:HG22	1:E:119:PRO:HD3	1.84	0.59
1:E:310:ILE:CG2	1:E:323:VAL:HG21	2.32	0.59
1:E:313:LEU:O	1:E:317:MET:HG3	2.02	0.59
1:E:711:ALA:HA	1:E:834:LEU:CD2	2.33	0.59
1:F:372:VAL:HB	1:F:373:PRO:CD	2.32	0.59
1:B:359:LEU:CD2	1:B:417:GLU:HG2	2.21	0.59
1:B:682:LEU:HD23	1:B:826:ILE:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1020:VAL:N	1:B:1021:PRO:HD2	2.17	0.59
1:C:184:MET:HE1	1:C:269:GLY:N	2.16	0.59
1:C:544:ILE:HD13	1:C:1019:TRP:CZ2	2.38	0.59
1:D:247:GLU:O	1:D:262:LEU:HB3	2.02	0.59
1:D:326:PRO:HB3	1:D:610:PHE:HB2	1.83	0.59
1:D:423:GLU:O	1:D:424:GLY:C	2.43	0.59
1:D:545:TYR:HB2	1:D:1019:TRP:NE1	2.17	0.59
1:D:845:GLU:OE1	1:D:848:LYS:HG3	2.02	0.59
1:E:176:GLN:O	1:E:289:ILE:HA	2.02	0.59
1:E:197:GLN:C	1:E:797:MET:HE2	2.27	0.59
1:E:348:ILE:C	1:E:348:ILE:HD12	2.27	0.59
1:E:848:LYS:NZ	1:E:848:LYS:HB3	2.17	0.59
1:F:912:LEU:HD23	1:F:926:PHE:HZ	1.68	0.59
1:A:228:GLN:OE1	1:B:780:MET:HE3	2.02	0.59
1:A:534:ILE:HG23	1:A:541:TYR:CD2	2.37	0.59
1:B:188:LEU:HA	1:B:266:ALA:HB2	1.85	0.59
1:B:250:LEU:HD23	1:B:261:ARG:HA	1.84	0.59
1:D:45:VAL:HA	1:D:128:ARG:O	2.02	0.59
1:D:332:VAL:HG21	1:D:569:GLN:HG2	1.84	0.59
1:D:684:LEU:CD1	1:D:684:LEU:H	2.15	0.59
1:E:414:GLU:HG2	1:E:972:PRO:HG3	1.84	0.59
1:E:641:GLU:HG2	1:E:642:ASN:ND2	2.17	0.59
1:E:727:LYS:O	1:E:727:LYS:HG2	2.03	0.59
1:F:38:ILE:O	1:F:38:ILE:HG12	2.03	0.59
1:F:46:GLN:O	1:F:128:ARG:HG2	2.03	0.59
1:F:142:VAL:HG21	1:F:321:MET:HE2	1.84	0.59
1:A:1:MET:O	1:A:4:PHE:HB3	2.03	0.59
1:A:515:TRP:CZ2	1:A:519:MET:HG3	2.38	0.59
1:A:969:ARG:O	1:A:973:ILE:HG12	2.03	0.59
1:B:637:ARG:N	1:B:638:PRO:HD3	2.16	0.59
1:B:687:GLN:OE1	1:B:821:VAL:HG21	2.02	0.59
1:C:420:MET:HG3	1:C:425:LEU:O	2.03	0.59
1:D:568:ASP:HB3	1:D:634:TRP:CH2	2.38	0.59
1:D:685:GLN:HG3	1:D:687:GLN:HE22	1.67	0.59
1:D:770:VAL:HG13	1:D:770:VAL:O	2.03	0.59
1:E:717:PRO:HA	1:E:826:ILE:HA	1.84	0.59
1:F:23:GLY:O	1:F:27:ILE:HG13	2.02	0.59
1:F:99:ASP:HB3	1:F:102:ILE:HG12	1.83	0.59
1:F:650:ARG:O	1:F:653:MET:N	2.36	0.59
1:A:253:VAL:HA	1:A:259:GLN:HA	1.84	0.59
1:A:298:ASN:O	1:A:302:THR:CG2	2.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:702:PHE:CZ	1:A:843:VAL:HG13	2.37	0.59
1:B:229:GLN:HB3	1:C:586:ARG:NH2	2.17	0.59
1:B:575:GLN:NE2	1:B:617:PHE:HB2	2.18	0.59
1:C:326:PRO:CB	1:C:610:PHE:HB2	2.33	0.59
1:C:884:PHE:CE1	1:C:897:PRO:HB2	2.38	0.59
1:D:155:SER:HB3	1:D:180:SER:O	2.03	0.59
1:E:45:VAL:O	1:E:89:THR:HA	2.03	0.59
1:F:504:ASP:O	1:F:504:ASP:OD2	2.20	0.59
1:A:837:GLY:HA2	1:A:840:MET:CE	2.32	0.59
1:B:209:ALA:HB2	1:C:742:LEU:HD23	1.84	0.59
1:B:262:LEU:O	1:B:265:VAL:HG22	2.03	0.59
1:B:273:GLN:NE2	1:B:769:ARG:HH11	1.98	0.59
1:C:347:ALA:HB1	1:C:402:ILE:HG12	1.85	0.59
1:D:356:TYR:HB2	1:D:365:THR:HG21	1.85	0.59
1:D:404:LEU:HB3	1:D:478:MET:CE	2.33	0.59
1:D:780:MET:HE1	1:F:224:ALA:CB	2.32	0.59
1:E:222:LEU:HD12	1:F:276:SER:HA	1.85	0.59
1:E:689:GLY:O	1:E:691:GLY:N	2.36	0.59
1:E:755:SER:HA	1:E:773:GLN:HB3	1.85	0.59
1:E:938:ALA:O	1:E:942:ILE:HG13	2.03	0.59
1:F:417:GLU:HA	1:F:417:GLU:OE2	2.02	0.59
1:F:711:ALA:O	1:F:831:ALA:HB2	2.02	0.59
1:F:731:ASP:OD2	1:F:733:GLU:HG2	2.03	0.59
1:F:950:GLU:O	1:F:954:GLN:HG2	2.02	0.59
1:C:1:MET:N	2:C:2002:LMT:H6D	2.17	0.58
1:C:367:ILE:CB	1:C:368:PRO:HD3	2.21	0.58
1:C:479:ALA:O	1:C:483:ILE:HG12	2.03	0.58
1:D:157:TYR:O	1:D:161:ASN:ND2	2.32	0.58
1:D:314:GLU:HA	1:D:317:MET:HE3	1.84	0.58
1:D:534:ILE:HG22	1:D:1022:LEU:HD23	1.83	0.58
1:E:65:ILE:HD11	1:E:118:LEU:HD21	1.85	0.58
1:E:139:VAL:HG22	1:E:327:TYR:HB3	1.84	0.58
1:E:413:VAL:HG22	1:E:493:CYS:SG	2.42	0.58
1:E:713:GLN:HE21	1:E:714:ARG:NE	2.00	0.58
1:E:1009:MET:HE2	1:E:1009:MET:HA	1.84	0.58
1:F:573:PHE:O	1:F:665:ALA:HA	2.03	0.58
1:A:360:GLN:HG2	1:A:513:PHE:CD1	2.38	0.58
1:B:27:ILE:C	1:B:27:ILE:HD12	2.28	0.58
1:B:187:TRP:HB3	1:B:775:ARG:HA	1.85	0.58
1:C:453:PHE:CE2	1:C:474:ILE:HG21	2.38	0.58
1:D:467:TYR:O	1:D:468:ARG:C	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:55:GLU:HG2	1:E:815:LEU:HD11	1.85	0.58
1:E:414:GLU:HG3	1:E:415:ASN:N	2.18	0.58
1:F:187:TRP:CZ3	1:F:773:GLN:HB3	2.38	0.58
1:A:188:LEU:HD13	1:A:772:LEU:HD11	1.85	0.58
1:A:739:GLY:O	1:A:740:VAL:C	2.46	0.58
1:C:318:PRO:HD2	1:C:321:MET:SD	2.42	0.58
1:C:402:ILE:CD1	1:C:403:GLY:N	2.65	0.58
1:C:910:GLY:O	1:C:1007:GLY:CA	2.51	0.58
1:E:65:ILE:CD1	1:E:118:LEU:HD21	2.32	0.58
1:E:360:GLN:HG2	1:E:513:PHE:CE2	2.38	0.58
1:E:900:VAL:O	1:E:903:VAL:HG22	2.03	0.58
1:F:344:LEU:C	1:F:344:LEU:HD13	2.29	0.58
1:F:587:THR:OG1	1:F:623:SER:HA	2.03	0.58
1:A:361:ASN:HB3	1:A:364:ALA:HB3	1.84	0.58
1:B:58:GLN:NE2	1:B:817:ARG:HH11	2.01	0.58
1:B:507:GLU:HG2	1:B:521:LEU:HD22	1.84	0.58
1:E:683:PHE:HB3	1:E:823:ALA:HB1	1.85	0.58
1:E:792:ASN:ND2	1:E:796:GLU:HB2	2.18	0.58
1:F:298:ASN:O	1:F:299:ALA:C	2.46	0.58
1:A:372:VAL:HA	1:A:405:LEU:HD21	1.85	0.58
1:A:598:LEU:HD12	1:A:606:VAL:HG21	1.86	0.58
1:A:726:TYR:HD1	1:A:808:TRP:CE2	2.21	0.58
1:B:98:THR:O	1:B:100:PRO:HD3	2.04	0.58
1:B:178:PHE:HB3	2:B:2001:LMT:C5	2.34	0.58
1:B:298:ASN:HD21	1:B:300:LEU:HB2	1.69	0.58
1:B:298:ASN:ND2	1:B:301:ASP:H	1.91	0.58
1:B:951:LEU:HD11	1:B:968:MET:CE	2.32	0.58
1:C:747:SER:O	1:C:751:ILE:HG13	2.04	0.58
1:D:43:ILE:HA	1:D:130:THR:O	2.03	0.58
1:D:441:ALA:O	1:D:442:LEU:C	2.46	0.58
1:D:669:PRO:HD3	1:D:677:ALA:N	2.19	0.58
1:E:24:GLY:O	1:E:27:ILE:HG12	2.04	0.58
1:E:552:MET:SD	1:E:908:VAL:HG11	2.44	0.58
1:F:27:ILE:O	1:F:27:ILE:CG2	2.51	0.58
1:F:201:GLY:O	1:F:204:SER:N	2.28	0.58
1:F:314:GLU:CA	1:F:317:MET:HE3	2.33	0.58
1:B:143:VAL:HG11	1:B:281:PHE:CD2	2.39	0.58
1:B:357:LEU:HD11	1:B:516:PHE:CD1	2.39	0.58
1:B:367:ILE:H	1:B:367:ILE:HD12	1.69	0.58
1:C:638:PRO:HD2	1:C:642:ASN:ND2	2.18	0.58
1:D:31:PRO:O	1:D:389:SER:HB2	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:420:MET:CE	1:E:427:PRO:HA	2.34	0.58
1:F:24:GLY:O	1:F:25:LEU:C	2.45	0.58
1:F:58:GLN:HE22	1:F:815:LEU:CD1	2.14	0.58
1:F:207:ILE:HG22	1:F:759:ASN:ND2	2.18	0.58
1:A:219:LEU:C	1:A:221:GLY:H	2.12	0.58
1:B:364:ALA:CA	1:B:497:LEU:HD11	2.32	0.58
1:B:838:ASP:O	1:B:841:ALA:HB3	2.04	0.58
1:B:847:VAL:HG11	1:B:856:TYR:CD2	2.38	0.58
2:B:2001:LMT:O2'	2:B:2001:LMT:H11	2.02	0.58
1:C:5:PHE:CD2	1:C:487:ILE:HG23	2.39	0.58
1:C:422:GLU:HG2	1:C:505:HIS:NE2	2.18	0.58
1:C:723:GLU:CD	1:C:813:PRO:HB3	2.29	0.58
1:D:789:TYR:CZ	1:D:799:PRO:HB3	2.39	0.58
1:F:745:ILE:HG22	1:F:790:VAL:HG11	1.86	0.58
1:B:139:VAL:HG13	1:B:327:TYR:HB3	1.85	0.58
1:C:1:MET:CB	2:C:2002:LMT:H6D	2.33	0.58
1:C:367:ILE:HB	1:C:368:PRO:CD	2.26	0.58
1:C:524:THR:HG22	1:C:970:LEU:HD12	1.85	0.58
1:C:684:LEU:O	1:C:823:ALA:HB1	2.03	0.58
1:C:1009:MET:HE2	1:C:1012:ALA:HB3	1.86	0.58
1:D:119:PRO:HB2	1:D:122:VAL:HG23	1.86	0.58
1:D:197:GLN:HA	1:D:797:MET:SD	2.44	0.58
1:A:228:GLN:CG	1:B:780:MET:HE3	2.34	0.58
1:B:528:GLU:CD	1:B:967:ARG:HG3	2.29	0.58
1:B:539:ALA:HB3	1:B:540:PRO:CD	2.34	0.58
1:C:317:MET:HE2	1:C:321:MET:CE	2.33	0.58
1:C:440:GLY:O	1:C:891:TYR:OH	2.20	0.58
1:C:890:LEU:HD22	1:C:890:LEU:O	2.04	0.58
1:D:336:SER:HA	1:D:993:ALA:O	2.04	0.58
1:D:757:TYR:HE1	1:D:769:ARG:HB3	1.69	0.58
1:E:556:PHE:CE1	1:E:912:LEU:HD21	2.39	0.58
1:E:879:SER:O	1:E:883:VAL:HG13	2.04	0.58
1:E:910:GLY:HA3	1:E:1011:THR:HG21	1.86	0.58
1:F:65:ILE:O	1:F:69:MET:HG2	2.03	0.58
1:F:151:LYS:HB2	1:F:152:GLU:OE2	2.03	0.58
1:B:152:GLU:OE1	1:B:272:GLY:HA3	2.03	0.58
1:B:249:ILE:HD11	1:B:262:LEU:HD12	1.84	0.58
1:D:49:TYR:CZ	1:D:121:GLU:HG3	2.39	0.58
1:E:594:MET:O	1:E:598:LEU:HD23	2.04	0.58
2:E:2001:LMT:C12	2:E:2002:LMT:H122	2.34	0.58
1:F:685:GLN:HE21	1:F:857:SER:CB	2.14	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:240:LEU:HD22	1:A:245:GLN:HB3	1.85	0.57
1:A:800:PHE:HA	1:A:803:PHE:CZ	2.38	0.57
1:B:898:PHE:O	1:B:902:LEU:HG	2.03	0.57
1:C:785:LEU:HD13	1:C:800:PHE:CE2	2.39	0.57
1:C:943:LEU:HB3	1:C:973:ILE:HD11	1.85	0.57
1:E:314:GLU:N	1:E:315:PRO:HD2	2.19	0.57
1:E:327:TYR:HB2	1:E:630:MET:HE1	1.85	0.57
1:F:306:ILE:O	1:F:306:ILE:HD13	2.04	0.57
1:F:433:LYS:HG2	1:F:437:GLN:NE2	2.19	0.57
1:F:920:LEU:CD2	1:F:1000:ALA:HA	2.33	0.57
1:F:928:VAL:O	1:F:932:THR:CG2	2.50	0.57
1:B:229:GLN:C	1:B:230:LEU:HD12	2.29	0.57
1:C:45:VAL:O	1:C:88:MET:HE1	2.04	0.57
1:C:52:ALA:HB1	1:C:56:THR:CB	2.34	0.57
1:C:343:THR:O	1:C:346:GLU:N	2.32	0.57
1:C:595:ARG:O	1:C:599:LEU:HB2	2.04	0.57
1:F:83:ASN:ND2	1:F:814:LYS:HG3	2.20	0.57
1:F:388:PHE:CD1	1:F:472:ILE:HG21	2.39	0.57
1:C:372:VAL:HG13	1:C:376:LEU:HD22	1.85	0.57
1:C:896:ILE:HG13	1:C:945:VAL:CG1	2.34	0.57
1:D:488:LEU:HD22	1:D:492:LEU:CD1	2.34	0.57
1:D:1002:GLY:O	1:D:1006:ILE:HG13	2.03	0.57
1:F:359:LEU:O	1:F:360:GLN:C	2.47	0.57
1:A:742:LEU:HD12	1:A:742:LEU:N	2.19	0.57
1:C:184:MET:HB3	1:C:770:VAL:HG22	1.85	0.57
1:C:501:GLU:O	1:C:504:ASP:HB2	2.04	0.57
1:F:548:ILE:HG21	1:F:909:ILE:HD13	1.87	0.57
1:F:549:VAL:O	1:F:552:MET:HB3	2.05	0.57
1:F:872:ALA:HB1	1:F:876:TYR:CE2	2.39	0.57
1:A:133:VAL:HG11	1:A:135:ASN:OD1	2.04	0.57
1:A:584:ALA:HB2	1:A:622:GLN:CB	2.35	0.57
1:B:584:ALA:H	1:B:622:GLN:NE2	2.02	0.57
1:C:563:PHE:CE2	1:C:564:LEU:HD23	2.40	0.57
1:C:563:PHE:CG	1:C:564:LEU:HD23	2.39	0.57
1:D:53:SER:O	1:D:57:VAL:HG12	2.05	0.57
1:F:447:MET:HE3	1:F:886:CYS:HB3	1.87	0.57
1:A:78:ILE:HG22	1:A:819:ASN:HD22	1.70	0.57
1:A:766:ARG:O	1:A:768:LYS:HD2	2.05	0.57
1:B:576:VAL:HG21	1:B:591:VAL:HG12	1.87	0.57
1:C:22:ALA:HA	2:C:2001:LMT:H12	1.86	0.57
1:C:136:PHE:CD1	1:C:290:ALA:HB1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:281:PHE:CD2	1:C:324:VAL:HG21	2.39	0.57
1:C:506:GLY:O	1:C:507:GLU:HB2	2.03	0.57
1:C:966:CYS:SG	1:C:1021:PRO:CG	2.92	0.57
1:D:634:TRP:C	1:D:636:GLU:H	2.13	0.57
1:D:634:TRP:CD1	1:D:634:TRP:H	2.22	0.57
1:D:950:GLU:O	1:D:953:GLU:HB3	2.04	0.57
1:E:241:GLN:HG2	1:E:762:ILE:O	2.05	0.57
1:F:445:ILE:HD12	1:F:445:ILE:C	2.29	0.57
1:F:849:GLN:O	1:F:850:LEU:HD12	2.04	0.57
1:A:749:VAL:HG13	1:A:753:TRP:CZ3	2.40	0.57
1:A:757:TYR:CE1	1:A:769:ARG:HG2	2.40	0.57
1:C:552:MET:SD	1:C:908:VAL:HB	2.44	0.57
1:C:668:PRO:HB2	1:C:672:LEU:CD2	2.35	0.57
1:C:909:ILE:HG13	1:C:910:GLY:H	1.69	0.57
1:C:1007:GLY:O	1:C:1010:VAL:N	2.31	0.57
1:E:413:VAL:HA	1:E:493:CYS:SG	2.44	0.57
1:E:432:ARG:O	1:E:433:LYS:C	2.48	0.57
1:E:578:THR:HB	1:E:579:PRO:HD2	1.86	0.57
1:B:555:MET:HE3	1:B:916:SER:HB2	1.87	0.57
1:B:562:ALA:O	1:B:923:ASP:HA	2.04	0.57
1:B:595:ARG:HG2	1:B:595:ARG:NH1	2.18	0.57
1:B:1001:ILE:C	1:B:1001:ILE:HD13	2.28	0.57
1:C:1:MET:O	1:C:4:PHE:HB3	2.05	0.57
1:C:142:VAL:HG22	1:C:154:LEU:HD22	1.86	0.57
1:C:189:ASP:HA	1:C:775:ARG:HD3	1.87	0.57
1:D:407:ASP:O	1:D:410:ILE:HB	2.05	0.57
1:D:936:LEU:HD12	1:D:980:PHE:CD2	2.39	0.57
1:E:191:ALA:C	1:E:193:LEU:N	2.61	0.57
1:E:212:VAL:HG22	1:E:213:GLN:N	2.19	0.57
1:E:542:LEU:HD21	1:E:1022:LEU:HD22	1.86	0.57
1:E:561:THR:HG22	1:E:922:ASN:ND2	2.19	0.57
1:F:47:VAL:HG12	1:F:48:SER:H	1.68	0.57
1:F:753:TRP:HE1	1:F:785:LEU:HB3	1.70	0.57
1:F:896:ILE:HG13	1:F:945:VAL:CG1	2.35	0.57
1:A:555:MET:HB2	1:A:912:LEU:HD13	1.87	0.57
1:C:1:MET:H3	2:C:2002:LMT:C6'	2.08	0.57
1:C:324:VAL:HG23	1:C:326:PRO:HD3	1.85	0.57
1:C:435:MET:HE1	1:C:438:ILE:HD11	1.86	0.57
1:D:213:GLN:NE2	1:D:239:ARG:H	2.02	0.57
1:D:423:GLU:O	1:D:425:LEU:HD12	2.05	0.57
1:E:794:LYS:C	1:E:796:GLU:H	2.12	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:731:ASP:CG	1:F:733:GLU:HG2	2.30	0.57
1:A:831:ALA:HB3	1:A:834:LEU:CD1	2.35	0.57
1:B:559:ILE:HD11	1:B:921:SER:HA	1.87	0.57
1:C:127:ILE:HD12	1:C:127:ILE:N	2.18	0.57
1:C:432:ARG:HG2	1:C:432:ARG:HH11	1.69	0.57
1:C:872:ALA:HB3	1:C:873:PRO:HD3	1.86	0.57
1:C:936:LEU:HB3	1:C:1009:MET:HE3	1.87	0.57
1:D:729:GLU:HB3	1:D:805:THR:O	2.05	0.57
1:D:1024:TYR:O	1:D:1028:SER:CB	2.51	0.57
1:A:465:VAL:O	1:A:469:GLN:HG2	2.04	0.56
1:A:498:LYS:N	1:A:499:PRO:CD	2.68	0.56
1:A:604:SER:O	1:A:632:LYS:HD2	2.05	0.56
1:A:622:GLN:HB2	1:C:231:ASN:ND2	2.20	0.56
1:A:658:PHE:HD2	1:A:660:ASP:HB3	1.70	0.56
1:B:595:ARG:HH11	1:B:595:ARG:CG	2.16	0.56
1:B:695:LEU:O	1:B:698:ALA:HB3	2.05	0.56
1:C:254:ASN:HB3	1:C:255:PRO:CD	2.35	0.56
1:D:18:VAL:CG1	2:E:2002:LMT:C12	2.83	0.56
1:F:650:ARG:O	1:F:651:ALA:C	2.48	0.56
1:A:415:ASN:ND2	1:A:418:ARG:HH21	2.03	0.56
1:B:60:THR:CG2	1:B:119:PRO:HG3	2.34	0.56
1:B:339:GLU:HG3	1:B:998:GLN:OE1	2.05	0.56
1:C:380:PHE:CZ	1:C:395:MET:HE1	2.40	0.56
1:C:456:MET:HG3	1:C:471:SER:OG	2.05	0.56
1:D:18:VAL:HG11	2:E:2002:LMT:H112	1.87	0.56
1:F:1011:THR:HB	1:F:1015:LEU:HD23	1.86	0.56
1:A:72:ILE:HD11	1:A:110:LYS:CG	2.35	0.56
1:A:448:VAL:HG21	1:A:890:LEU:HD12	1.86	0.56
1:A:701:LYS:O	1:A:705:LEU:HB2	2.05	0.56
2:A:1102:LMT:H6D	2:A:1102:LMT:O5B	2.06	0.56
1:B:282:ASN:CA	1:B:595:ARG:HD2	2.35	0.56
1:B:367:ILE:HD12	1:B:367:ILE:N	2.21	0.56
1:C:347:ALA:O	1:C:351:VAL:HG23	2.05	0.56
1:C:382:VAL:HG12	1:C:472:ILE:HD11	1.88	0.56
1:D:64:VAL:CG2	1:D:118:LEU:HD11	2.34	0.56
1:D:219:LEU:HB2	1:D:232:ALA:N	2.20	0.56
1:D:789:TYR:CE2	1:D:799:PRO:HB3	2.41	0.56
1:D:871:GLN:HE21	2:D:2001:LMT:C4B	2.18	0.56
1:D:988:ALA:O	1:D:989:ILE:HG13	2.03	0.56
1:E:83:ASN:ND2	1:E:620:ARG:HD3	2.21	0.56
1:E:445:ILE:CD1	1:E:939:LYS:HE3	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:142:VAL:HG13	1:F:154:LEU:HD22	1.86	0.56
1:F:544:ILE:HD11	1:F:1019:TRP:CZ2	2.40	0.56
1:F:981:ILE:HG23	1:F:1006:ILE:CD1	2.35	0.56
1:A:281:PHE:O	1:A:282:ASN:HB2	2.05	0.56
1:B:225:VAL:HG22	1:C:780:MET:SD	2.45	0.56
1:B:549:VAL:O	1:B:552:MET:N	2.37	0.56
1:B:633:PRO:HB3	1:B:635:GLU:OE2	2.06	0.56
1:B:741:SER:O	1:B:742:LEU:HB2	2.05	0.56
1:C:339:GLU:O	1:C:342:LYS:N	2.38	0.56
1:C:545:TYR:CE1	1:C:1023:PHE:HZ	2.23	0.56
1:D:172:VAL:HG23	1:D:291:ILE:HG23	1.87	0.56
1:E:431:ALA:CB	1:E:494:ALA:HB2	2.35	0.56
1:E:957:GLY:O	1:E:958:ILE:C	2.48	0.56
1:F:38:ILE:HD12	1:F:671:VAL:HG11	1.87	0.56
1:F:903:VAL:HG22	1:F:1020:VAL:HG22	1.86	0.56
1:A:319:GLN:CD	1:A:319:GLN:N	2.64	0.56
1:A:528:GLU:OE1	1:A:967:ARG:HD3	2.06	0.56
1:A:881:LEU:HD23	1:A:881:LEU:O	2.05	0.56
1:B:489:THR:OG1	1:B:490:PRO:HD3	2.06	0.56
1:E:132:ALA:O	1:E:134:LYS:HE3	2.04	0.56
1:E:298:ASN:O	1:E:302:THR:HG23	2.06	0.56
1:E:956:LYS:NZ	1:E:964:GLU:OE2	2.38	0.56
1:F:445:ILE:HG13	1:F:446:ALA:N	2.20	0.56
1:F:693:GLU:O	1:F:697:GLN:HG2	2.04	0.56
1:F:890:LEU:HD23	1:F:891:TYR:CE2	2.41	0.56
1:A:250:LEU:HD11	1:A:259:GLN:HB2	1.88	0.56
1:A:878:LEU:HD21	1:C:25:LEU:HD11	1.87	0.56
1:A:1013:THR:O	1:A:1017:ILE:HG23	2.05	0.56
1:B:462:SER:HB2	1:B:864:GLU:OE1	2.05	0.56
1:C:361:ASN:O	1:C:364:ALA:N	2.39	0.56
1:C:596:GLU:C	1:C:598:LEU:H	2.14	0.56
1:C:660:ASP:O	1:C:661:ALA:HB2	2.06	0.56
1:C:929:GLY:HA2	1:C:932:THR:HG23	1.86	0.56
1:C:936:LEU:HD13	1:C:1009:MET:HB2	1.87	0.56
1:D:1009:MET:O	1:D:1013:THR:CG2	2.53	0.56
1:F:884:PHE:CD1	1:F:897:PRO:HB2	2.41	0.56
1:A:250:LEU:HD13	1:A:261:ARG:NH1	2.20	0.56
1:A:472:ILE:HD13	1:A:473:THR:N	2.20	0.56
1:C:452:VAL:HG11	1:C:934:ILE:HG23	1.88	0.56
1:C:897:PRO:O	1:C:901:MET:HG2	2.06	0.56
1:D:140:VAL:HB	1:D:289:ILE:HG13	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:632:LYS:HG2	1:E:637:ARG:HD3	1.88	0.56
2:E:2001:LMT:H123	2:E:2002:LMT:C11	2.33	0.56
1:F:33:ASN:O	1:F:391:ASN:HA	2.06	0.56
1:F:159:VAL:CG2	1:F:177:VAL:HG11	2.35	0.56
1:A:644:VAL:HG13	1:A:645:PHE:H	1.71	0.56
1:B:754:GLY:O	1:B:755:SER:CB	2.52	0.56
1:D:284:SER:HB2	1:D:285:PRO:HD2	1.87	0.56
1:D:404:LEU:CD2	1:D:936:LEU:HG	2.35	0.56
1:E:441:ALA:O	1:E:445:ILE:HG23	2.06	0.56
1:B:10:ILE:CG2	1:C:888:ALA:O	2.54	0.56
1:B:542:LEU:O	1:B:545:TYR:HB3	2.06	0.56
1:C:187:TRP:HB3	1:C:775:ARG:HA	1.87	0.56
1:C:336:SER:O	1:C:340:VAL:HG12	2.06	0.56
1:C:896:ILE:HD12	1:C:896:ILE:N	2.20	0.56
1:E:994:GLY:O	1:E:998:GLN:HG3	2.06	0.56
1:F:830:PRO:CB	1:F:839:ALA:HB2	2.36	0.56
1:A:78:ILE:CG2	1:A:819:ASN:HA	2.36	0.56
1:A:253:VAL:HG13	1:A:258:SER:O	2.06	0.56
1:A:350:LEU:HD12	1:A:982:LEU:HG	1.88	0.56
1:A:649:LYS:C	1:A:651:ALA:H	2.13	0.56
1:B:906:LEU:HG	1:B:1015:LEU:CB	2.35	0.56
1:C:34:GLN:O	1:C:391:ASN:HB2	2.06	0.56
1:C:186:ILE:HG12	1:C:268:VAL:HG22	1.87	0.56
1:C:469:GLN:O	1:C:473:THR:HG23	2.06	0.56
1:C:881:LEU:HD22	1:C:885:LEU:HD11	1.86	0.56
1:C:912:LEU:HD23	1:C:926:PHE:CZ	2.35	0.56
1:D:423:GLU:O	1:D:424:GLY:O	2.24	0.56
1:E:535:LEU:HD13	1:E:959:VAL:HG23	1.87	0.56
1:E:682:LEU:HD22	1:E:858:TRP:CZ3	2.41	0.56
1:E:905:PRO:O	1:E:908:VAL:HG12	2.06	0.56
1:F:900:VAL:HG23	1:F:901:MET:N	2.20	0.56
1:A:298:ASN:HD22	1:A:301:ASP:CG	2.13	0.55
1:A:584:ALA:H	1:A:622:GLN:NE2	2.01	0.55
1:B:140:VAL:HB	1:B:289:ILE:HD12	1.87	0.55
1:B:338:HIS:O	1:B:340:VAL:N	2.37	0.55
1:B:712:LEU:HD21	1:B:842:ALA:HB3	1.89	0.55
1:C:15:ILE:HG13	1:C:16:ALA:N	2.21	0.55
1:C:418:ARG:HH21	1:C:419:VAL:CG2	2.18	0.55
1:C:839:ALA:O	1:C:843:VAL:HG23	2.06	0.55
1:C:971:ARG:N	1:C:972:PRO:HD2	2.21	0.55
1:D:435:MET:O	1:D:437:GLN:O	2.23	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:485:ALA:O	1:D:490:PRO:HD3	2.05	0.55
1:F:692:HIS:O	1:F:696:LEU:HG	2.06	0.55
1:A:687:GLN:NE2	1:A:821:VAL:HG21	2.21	0.55
1:A:695:LEU:HD22	1:A:824:MET:HE3	1.89	0.55
1:C:447:MET:HE2	1:C:890:LEU:HG	1.87	0.55
1:C:592:ASP:HA	1:C:595:ARG:HG2	1.88	0.55
1:D:371:ALA:O	1:D:374:VAL:N	2.39	0.55
1:D:578:THR:HB	1:D:579:PRO:HD2	1.89	0.55
1:D:830:PRO:HB3	1:D:839:ALA:HB2	1.88	0.55
1:E:317:MET:HE1	1:E:323:VAL:HG13	1.88	0.55
1:F:520:PHE:HA	1:F:523:THR:HG22	1.88	0.55
1:A:46:GLN:HG2	1:A:89:THR:HG23	1.88	0.55
1:A:145:THR:HB	1:A:320:GLY:HA2	1.87	0.55
1:A:282:ASN:O	1:A:595:ARG:HD3	2.06	0.55
1:A:456:MET:CE	1:A:931:LEU:HD12	2.36	0.55
1:B:172:VAL:HG22	1:B:306:ILE:CD1	2.36	0.55
1:B:241:GLN:NE2	1:B:762:ILE:HG22	2.21	0.55
1:C:62:VAL:O	1:C:66:GLU:HG3	2.06	0.55
1:C:572:LEU:HD12	1:C:666:PHE:O	2.06	0.55
1:C:725:GLN:CD	1:C:811:GLY:HA3	2.31	0.55
1:E:47:VAL:HG12	1:E:48:SER:H	1.71	0.55
1:E:445:ILE:HD13	1:E:939:LYS:HE3	1.88	0.55
1:F:328:ASP:H	1:F:630:MET:CE	2.19	0.55
1:F:856:TYR:C	1:F:856:TYR:CD2	2.82	0.55
1:F:899:SER:O	1:F:902:LEU:HB2	2.07	0.55
1:A:167:SER:HB3	1:B:70:ASN:CB	2.36	0.55
1:A:468:ARG:O	1:A:469:GLN:C	2.49	0.55
1:A:644:VAL:O	1:A:648:ALA:N	2.40	0.55
1:A:727:LYS:HA	1:C:235:ILE:HB	1.88	0.55
1:B:631:LEU:HD12	1:B:644:VAL:HG22	1.86	0.55
1:B:714:ARG:O	1:B:828:GLY:HA2	2.05	0.55
1:D:64:VAL:HG21	1:D:118:LEU:CD1	2.37	0.55
1:D:530:GLY:O	1:D:533:SER:HB3	2.06	0.55
1:A:65:ILE:HD13	1:A:114:ALA:HB1	1.89	0.55
1:A:214:ILE:HD11	1:A:237:LYS:H	1.71	0.55
1:A:918:ARG:NH2	1:A:1003:THR:HG21	2.21	0.55
1:A:1017:ILE:HG13	1:A:1018:PHE:CD1	2.42	0.55
1:B:572:LEU:HD23	1:B:573:PHE:N	2.21	0.55
1:D:298:ASN:ND2	1:D:301:ASP:H	2.03	0.55
1:D:410:ILE:O	1:D:413:VAL:HG13	2.07	0.55
1:D:749:VAL:HA	1:D:753:TRP:CE3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:31:PRO:HB2	1:E:389:SER:HB2	1.88	0.55
1:E:188:LEU:HA	1:E:266:ALA:CB	2.36	0.55
1:E:782:PRO:C	1:E:785:LEU:HG	2.31	0.55
1:F:11:PHE:HD2	1:F:11:PHE:O	1.89	0.55
1:B:541:TYR:O	1:B:544:ILE:HG22	2.07	0.55
1:B:745:ILE:HD12	1:B:803:PHE:CZ	2.42	0.55
1:B:900:VAL:HG23	1:B:941:ALA:CB	2.33	0.55
1:C:343:THR:O	1:C:344:LEU:C	2.49	0.55
1:C:520:PHE:CA	1:C:523:THR:HG22	2.35	0.55
1:C:717:PRO:CA	1:C:826:ILE:HG22	2.33	0.55
1:D:178:PHE:HA	1:D:277:ILE:HG21	1.88	0.55
1:E:184:MET:O	1:E:770:VAL:HA	2.07	0.55
1:E:302:THR:O	1:E:306:ILE:HG13	2.07	0.55
1:E:326:PRO:C	1:E:630:MET:HE3	2.32	0.55
1:E:806:GLY:O	1:E:807:LYS:HB2	2.06	0.55
1:F:922:ASN:OD1	1:F:926:PHE:HD2	1.90	0.55
1:A:164:ASP:O	1:A:165:PRO:C	2.50	0.55
1:A:695:LEU:HD22	1:A:824:MET:SD	2.47	0.55
1:D:554:TRP:CZ2	1:D:558:ARG:HD2	2.42	0.55
1:D:577:GLN:NE2	1:D:623:SER:O	2.40	0.55
1:E:280:GLN:HB2	1:E:611:THR:OG1	2.07	0.55
1:E:930:LEU:O	1:E:934:ILE:HG23	2.06	0.55
1:F:214:ILE:HD11	1:F:237:LYS:H	1.72	0.55
1:F:527:TYR:OH	1:F:1017:ILE:O	2.22	0.55
1:F:591:VAL:HG13	1:F:611:THR:OG1	2.05	0.55
1:B:716:ARG:HD3	1:B:716:ARG:N	2.21	0.55
1:C:139:VAL:HB	1:C:326:PRO:HG2	1.88	0.55
1:C:435:MET:CE	1:C:438:ILE:HD11	2.36	0.55
1:C:785:LEU:HD13	1:C:800:PHE:HE2	1.72	0.55
1:D:915:THR:HG21	1:D:926:PHE:CD1	2.42	0.55
1:E:454:LEU:O	1:E:455:PRO:C	2.49	0.55
1:E:617:PHE:CE2	1:E:626:MET:HE1	2.42	0.55
1:E:891:TYR:OH	1:E:942:ILE:HA	2.06	0.55
1:F:1023:PHE:O	1:F:1027:VAL:HG13	2.07	0.55
1:A:909:ILE:HG13	1:A:910:GLY:N	2.21	0.55
1:A:973:ILE:O	1:A:976:THR:HG22	2.06	0.55
1:B:129:VAL:H	1:C:112:GLN:HE22	1.54	0.55
1:B:483:ILE:HG22	1:B:487:ILE:HD12	1.88	0.55
1:C:10:ILE:O	1:C:14:VAL:HG23	2.07	0.55
1:E:831:ALA:HB3	1:E:834:LEU:HD13	1.89	0.55
1:F:200:PRO:HG3	1:F:748:THR:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:726:TYR:OH	1:F:782:PRO:HB3	2.07	0.55
1:A:372:VAL:HB	1:A:373:PRO:CD	2.37	0.55
1:A:672:LEU:H	1:A:672:LEU:HD12	1.72	0.55
1:A:830:PRO:HG2	1:A:836:SER:HA	1.88	0.55
1:A:984:VAL:HG11	1:A:1005:VAL:HG22	1.88	0.55
1:B:445:ILE:HD11	1:B:449:LEU:HD11	1.87	0.55
1:C:47:VAL:HG23	1:C:88:MET:HE2	1.88	0.55
1:C:156:ASN:HA	1:C:181:GLN:HA	1.88	0.55
1:C:630:MET:C	1:C:631:LEU:HD23	2.33	0.55
1:C:685:GLN:HB3	1:C:823:ALA:HB2	1.88	0.55
1:C:702:PHE:HZ	1:C:843:VAL:HG13	1.72	0.55
1:D:641:GLU:H	1:D:641:GLU:CD	2.14	0.55
1:D:754:GLY:HA2	1:F:217:GLY:CA	2.36	0.55
1:D:1016:ALA:HB1	1:D:1020:VAL:HG23	1.89	0.55
1:E:657:SER:O	1:E:658:PHE:C	2.50	0.55
1:F:669:PRO:HG3	1:F:861:LEU:HD11	1.88	0.55
1:F:789:TYR:CZ	1:F:799:PRO:HG3	2.42	0.55
1:A:30:LEU:HD21	1:A:384:ALA:HA	1.89	0.54
1:A:283:GLY:HA2	1:A:595:ARG:NH1	2.22	0.54
1:A:535:LEU:HD21	1:A:1021:PRO:O	2.06	0.54
1:A:1002:GLY:O	1:A:1006:ILE:HG13	2.07	0.54
1:B:568:ASP:CG	1:B:644:VAL:HG23	2.31	0.54
1:B:784:ASP:O	1:B:787:LYS:HB2	2.07	0.54
1:C:958:ILE:O	1:C:961:ALA:HB3	2.07	0.54
1:D:47:VAL:N	1:D:88:MET:HE3	2.22	0.54
1:D:595:ARG:HH11	1:D:595:ARG:HG3	1.72	0.54
1:D:753:TRP:CZ2	1:D:785:LEU:HG	2.42	0.54
1:E:169:THR:HB	1:E:172:VAL:HG21	1.89	0.54
1:F:780:MET:HE2	1:F:780:MET:HA	1.88	0.54
1:A:186:ILE:HD13	1:A:262:LEU:HD21	1.89	0.54
1:A:328:ASP:C	1:A:328:ASP:OD1	2.50	0.54
1:A:872:ALA:N	1:A:873:PRO:HD2	2.22	0.54
1:C:757:TYR:OH	1:C:760:ASP:OD1	2.25	0.54
1:D:195:SER:C	1:D:197:GLN:H	2.15	0.54
1:D:453:PHE:O	1:D:471:SER:OG	2.24	0.54
1:D:924:VAL:O	1:D:928:VAL:HB	2.07	0.54
1:E:682:LEU:CD1	1:E:856:TYR:HB2	2.38	0.54
1:E:868:SER:O	1:E:871:GLN:HG2	2.07	0.54
1:F:1001:ILE:O	1:F:1001:ILE:HD12	2.08	0.54
1:A:78:ILE:H	1:A:819:ASN:ND2	2.05	0.54
1:B:282:ASN:ND2	1:B:608:SER:HB2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:451:ALA:HB1	1:C:882:VAL:HG12	1.89	0.54
1:D:18:VAL:HG11	2:E:2002:LMT:C11	2.37	0.54
1:D:32:VAL:CG1	1:D:300:LEU:HD12	2.37	0.54
1:E:1:MET:O	1:E:4:PHE:HB3	2.06	0.54
1:E:42:ALA:HB3	1:E:132:ALA:HB3	1.89	0.54
1:E:455:PRO:HG2	1:E:879:SER:HB2	1.89	0.54
1:E:828:GLY:O	1:E:829:GLU:HB3	2.07	0.54
1:E:901:MET:O	1:E:904:VAL:HG23	2.08	0.54
1:E:910:GLY:HA3	1:E:1011:THR:CG2	2.37	0.54
2:E:2001:LMT:H122	2:E:2002:LMT:H102	1.88	0.54
1:F:421:ALA:O	1:F:422:GLU:C	2.50	0.54
1:F:788:TRP:O	1:F:800:PHE:HB2	2.08	0.54
1:A:239:ARG:NH1	1:A:760:ASP:O	2.40	0.54
1:A:448:VAL:HG11	1:A:887:LEU:HD21	1.89	0.54
1:A:1016:ALA:HB1	1:A:1020:VAL:HG23	1.89	0.54
1:B:222:LEU:HA	1:B:223:PRO:C	2.33	0.54
1:C:194:ASN:OD1	1:C:797:MET:HG2	2.07	0.54
1:C:925:PHE:CD1	1:C:1001:ILE:HB	2.43	0.54
1:C:931:LEU:O	1:C:934:ILE:HG23	2.07	0.54
1:C:966:CYS:SG	1:C:1021:PRO:HG3	2.48	0.54
1:D:281:PHE:CE1	1:D:608:SER:HB2	2.42	0.54
1:F:154:LEU:CD2	1:F:321:MET:HE3	2.37	0.54
1:F:418:ARG:NH2	1:F:437:GLN:OE1	2.40	0.54
1:F:902:LEU:HB3	1:F:1023:PHE:CE1	2.41	0.54
1:A:318:PRO:HD2	1:A:321:MET:SD	2.48	0.54
1:A:435:MET:O	1:A:439:GLN:HB2	2.07	0.54
1:A:446:ALA:HB1	1:A:482:VAL:HG21	1.89	0.54
1:A:755:SER:HB3	1:A:773:GLN:NE2	2.23	0.54
1:B:785:LEU:HD12	1:B:786:SER:N	2.22	0.54
1:C:778:ALA:HA	1:C:784:ASP:OD1	2.07	0.54
1:C:909:ILE:HG13	1:C:910:GLY:N	2.22	0.54
1:D:146:ASP:O	1:D:148:SER:N	2.40	0.54
1:D:713:GLN:OE1	1:D:832:PRO:HD3	2.08	0.54
1:E:169:THR:O	1:E:172:VAL:HG23	2.08	0.54
1:E:714:ARG:O	1:E:716:ARG:HD3	2.06	0.54
1:A:938:ALA:O	1:A:942:ILE:HG12	2.06	0.54
1:B:43:ILE:HG12	1:B:104:GLN:HA	1.89	0.54
1:B:189:ASP:HB3	1:B:192:LYS:HB2	1.90	0.54
1:B:441:ALA:O	1:B:445:ILE:CG2	2.54	0.54
1:B:601:LYS:C	1:B:601:LYS:HD3	2.32	0.54
1:B:729:GLU:HB2	1:B:805:THR:HG22	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:908:VAL:CB	1:B:930:LEU:HD11	2.37	0.54
1:C:165:PRO:O	1:C:169:THR:OG1	2.26	0.54
1:C:630:MET:O	1:C:631:LEU:HD23	2.07	0.54
1:D:6:ILE:O	1:D:6:ILE:CG2	2.54	0.54
1:D:212:VAL:CG2	1:D:237:LYS:HG2	2.38	0.54
1:D:675:GLY:C	1:D:677:ALA:H	2.16	0.54
1:D:977:SER:HB3	1:D:1013:THR:HG21	1.89	0.54
1:F:141:GLY:O	1:F:323:VAL:HG23	2.08	0.54
1:F:485:ALA:O	1:F:490:PRO:HD3	2.07	0.54
1:F:493:CYS:O	1:F:497:LEU:HB2	2.08	0.54
1:F:830:PRO:CA	1:F:839:ALA:HB2	2.38	0.54
1:A:65:ILE:HD13	1:A:114:ALA:CB	2.37	0.54
1:A:342:LYS:O	1:A:346:GLU:HG3	2.08	0.54
1:A:492:LEU:HD22	1:A:496:MET:CE	2.33	0.54
1:B:132:ALA:O	1:B:134:LYS:HE3	2.07	0.54
1:C:65:ILE:O	1:C:69:MET:HG2	2.07	0.54
1:C:634:TRP:CE2	1:C:993:ALA:HB2	2.43	0.54
1:D:47:VAL:HG12	1:D:88:MET:CE	2.36	0.54
1:D:125:GLN:NE2	1:D:769:ARG:HH12	2.05	0.54
1:D:154:LEU:HD13	1:D:286:ALA:HA	1.89	0.54
1:E:559:ILE:HD13	1:E:560:PRO:CD	2.37	0.54
1:E:728:LEU:HD11	1:E:800:PHE:CZ	2.43	0.54
1:E:878:LEU:HD12	2:E:2001:LMT:H31	1.89	0.54
1:F:631:LEU:HD12	1:F:637:ARG:HH12	1.71	0.54
1:A:254:ASN:C	1:A:256:ASP:H	2.15	0.54
1:A:403:GLY:HA3	1:A:980:PHE:HD1	1.72	0.54
1:A:652:GLN:HE22	1:A:664:PHE:HD1	1.53	0.54
1:B:61:VAL:CG2	1:B:122:VAL:HG21	2.38	0.54
1:B:915:THR:CG2	1:B:920:LEU:HB2	2.36	0.54
1:C:182:TYR:O	1:C:768:LYS:HD3	2.08	0.54
1:D:171:GLY:HA3	1:D:302:THR:HB	1.89	0.54
1:D:171:GLY:O	1:D:293:LEU:HD12	2.08	0.54
1:D:314:GLU:HB2	1:D:315:PRO:HD3	1.90	0.54
1:D:367:ILE:HB	1:D:368:PRO:CD	2.36	0.54
1:D:367:ILE:CB	1:D:368:PRO:HD3	2.35	0.54
1:D:780:MET:HE3	1:F:228:GLN:CD	2.32	0.54
1:E:854:VAL:HG12	1:E:855:GLY:N	2.23	0.54
1:E:868:SER:HA	1:E:871:GLN:HE21	1.71	0.54
1:F:38:ILE:HD13	1:F:38:ILE:C	2.33	0.54
1:F:699:ARG:O	1:F:703:LEU:HG	2.07	0.54
1:A:68:GLN:O	1:A:70:ASN:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:166:LEU:HD22	1:A:306:ILE:HG23	1.90	0.54
1:A:169:THR:O	1:A:172:VAL:HG13	2.08	0.54
1:B:439:GLN:O	1:B:443:VAL:HG23	2.07	0.54
1:B:661:ALA:O	1:B:663:VAL:HG23	2.07	0.54
1:C:344:LEU:O	1:C:347:ALA:HB3	2.08	0.54
1:C:542:LEU:O	1:C:546:VAL:HG23	2.08	0.54
1:C:845:GLU:C	1:C:847:VAL:H	2.16	0.54
1:E:197:GLN:HE21	1:E:252:LYS:HZ1	1.54	0.54
1:E:609:VAL:CG1	1:E:627:ALA:HB1	2.38	0.54
1:F:347:ALA:O	1:F:351:VAL:HG23	2.08	0.54
1:F:572:LEU:HB3	1:F:629:ILE:CB	2.34	0.54
1:A:757:TYR:HE1	1:A:769:ARG:HG2	1.73	0.54
1:B:178:PHE:HB3	2:B:2001:LMT:H41	1.90	0.54
1:B:330:THR:HB	1:B:331:PRO:HD3	1.90	0.54
1:B:375:VAL:CG1	1:B:405:LEU:HD11	2.30	0.54
1:B:438:ILE:HG13	1:B:439:GLN:N	2.23	0.54
1:C:310:ILE:HD12	1:C:310:ILE:C	2.33	0.54
1:C:736:SER:HA	1:C:740:VAL:O	2.07	0.54
1:C:1007:GLY:O	1:C:1010:VAL:HB	2.08	0.54
1:D:57:VAL:O	1:D:61:VAL:HB	2.07	0.54
1:D:685:GLN:HB2	1:D:687:GLN:HE22	1.73	0.54
1:D:881:LEU:HD22	1:D:885:LEU:HD22	1.89	0.54
1:E:58:GLN:O	1:E:63:GLN:HG3	2.08	0.54
1:E:783:ASP:C	1:E:785:LEU:N	2.65	0.54
1:F:15:ILE:HD13	1:F:16:ALA:N	2.22	0.54
1:F:39:ALA:HB2	1:F:673:GLU:HB3	1.90	0.54
1:F:250:LEU:HG	1:F:261:ARG:NH1	2.23	0.54
1:A:33:ASN:HD22	1:A:33:ASN:C	2.15	0.53
1:B:246:PHE:O	1:B:249:ILE:HG12	2.07	0.53
1:B:568:ASP:OD1	1:B:644:VAL:HG23	2.07	0.53
1:B:669:PRO:HG2	1:B:672:LEU:HA	1.90	0.53
1:D:210:GLN:NE2	1:D:249:ILE:HG23	2.23	0.53
1:D:588:GLN:O	1:D:592:ASP:HB2	2.08	0.53
2:D:2001:LMT:H5'	1:F:29:SER:OG	2.08	0.53
1:E:740:VAL:HG13	1:E:740:VAL:O	2.08	0.53
1:F:75:LEU:HD12	1:F:93:THR:O	2.08	0.53
1:F:84:SER:HB2	1:F:723:GLU:OE1	2.08	0.53
1:A:36:PRO:HG3	1:A:469:GLN:HG3	1.90	0.53
1:A:187:TRP:O	1:A:266:ALA:HB1	2.07	0.53
1:A:188:LEU:HD12	1:A:266:ALA:HB2	1.90	0.53
1:B:228:GLN:C	1:B:230:LEU:H	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:732:ASP:OD1	1:B:742:LEU:HD11	2.08	0.53
1:C:104:GLN:O	1:C:107:VAL:HB	2.08	0.53
1:C:143:VAL:HG12	1:C:322:LYS:HG2	1.90	0.53
1:C:172:VAL:HG22	1:C:291:ILE:HD12	1.90	0.53
1:C:182:TYR:HA	1:C:271:GLY:O	2.08	0.53
1:C:283:GLY:N	1:C:595:ARG:CZ	2.71	0.53
1:C:686:ASP:CB	1:C:695:LEU:HD21	2.37	0.53
1:D:5:PHE:CG	1:D:487:ILE:HG23	2.43	0.53
1:D:18:VAL:HG11	2:E:2002:LMT:H121	1.90	0.53
1:D:534:ILE:HG22	1:D:1022:LEU:CD2	2.38	0.53
1:E:351:VAL:HG13	1:E:410:ILE:HD11	1.90	0.53
1:E:432:ARG:O	1:E:435:MET:N	2.40	0.53
1:A:156:ASN:O	1:A:160:SER:OG	2.20	0.53
1:A:435:MET:SD	1:A:438:ILE:HD11	2.48	0.53
1:A:958:ILE:HG12	1:A:959:VAL:N	2.24	0.53
1:A:974:VAL:O	1:A:975:MET:C	2.51	0.53
1:B:175:PHE:HA	1:B:290:ALA:O	2.08	0.53
1:B:584:ALA:HB1	1:B:613:THR:HG21	1.91	0.53
1:B:872:ALA:O	1:B:873:PRO:C	2.50	0.53
1:C:207:ILE:HG21	1:C:758:VAL:HG21	1.90	0.53
1:C:240:LEU:O	1:C:241:GLN:HB2	2.06	0.53
1:C:243:ALA:HB1	1:C:268:VAL:O	2.08	0.53
1:D:254:ASN:HB2	1:D:258:SER:O	2.08	0.53
1:D:664:PHE:HD2	1:D:666:PHE:HD2	1.56	0.53
1:E:44:ALA:O	1:E:129:VAL:HA	2.07	0.53
1:E:527:TYR:O	1:E:531:VAL:HG23	2.08	0.53
1:E:786:SER:CA	1:E:801:ASN:HD22	2.21	0.53
1:F:502:LYS:O	1:F:504:ASP:N	2.41	0.53
1:A:162:ILE:O	1:A:165:PRO:HD2	2.09	0.53
1:A:579:PRO:HG2	1:A:582:SER:OG	2.09	0.53
1:B:426:SER:HB2	1:B:427:PRO:HD2	1.90	0.53
1:B:489:THR:OG1	1:B:490:PRO:CD	2.55	0.53
1:B:616:ASN:HB2	1:B:624:SER:HB3	1.90	0.53
1:B:616:ASN:HD22	1:B:618:ALA:H	1.54	0.53
1:B:655:PHE:O	1:B:658:PHE:HB2	2.07	0.53
1:B:901:MET:O	1:B:904:VAL:HG23	2.07	0.53
1:C:67:GLN:OE1	1:C:67:GLN:O	2.26	0.53
1:C:357:LEU:HD21	1:C:516:PHE:CZ	2.43	0.53
1:C:453:PHE:CB	1:C:456:MET:HE2	2.35	0.53
1:D:195:SER:O	1:D:197:GLN:N	2.40	0.53
1:D:302:THR:O	1:D:306:ILE:HG13	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:626:MET:HE1	1:D:628:PHE:CE1	2.44	0.53
1:D:909:ILE:O	1:D:913:LEU:HD13	2.07	0.53
1:E:375:VAL:CG1	1:E:405:LEU:HD13	2.39	0.53
1:F:1:MET:HE2	2:F:2001:LMT:O2'	2.09	0.53
1:A:354:VAL:O	1:A:357:LEU:HB3	2.08	0.53
1:A:756:SER:O	1:A:771:TYR:HA	2.08	0.53
1:C:326:PRO:HB3	1:C:610:PHE:HB2	1.89	0.53
1:C:596:GLU:O	1:C:600:GLU:HG2	2.07	0.53
1:D:378:GLY:O	1:D:381:GLY:N	2.41	0.53
1:D:672:LEU:O	1:D:674:LEU:N	2.42	0.53
1:D:713:GLN:HG3	1:D:714:ARG:N	2.24	0.53
1:F:360:GLN:HB3	1:F:513:PHE:CE2	2.44	0.53
1:A:303:ALA:HB2	1:A:330:THR:HG21	1.89	0.53
1:A:552:MET:HB2	1:A:909:ILE:HG23	1.90	0.53
1:A:561:THR:HG22	1:A:922:ASN:HD22	1.72	0.53
1:B:69:MET:C	1:B:70:ASN:HD22	2.17	0.53
1:B:616:ASN:HB3	1:B:619:GLY:O	2.09	0.53
1:B:745:ILE:O	1:B:748:THR:HB	2.08	0.53
1:B:847:VAL:O	1:B:850:LEU:CG	2.55	0.53
1:C:389:SER:O	1:C:391:ASN:ND2	2.41	0.53
1:D:498:LYS:H	1:D:499:PRO:HD2	1.74	0.53
1:D:583:SER:HB3	1:D:586:ARG:HB2	1.89	0.53
1:F:300:LEU:CD2	1:F:330:THR:HG23	2.38	0.53
1:F:469:GLN:O	1:F:473:THR:CG2	2.57	0.53
1:F:564:LEU:HD13	1:F:924:VAL:CG2	2.39	0.53
1:F:966:CYS:SG	1:F:1021:PRO:HG3	2.48	0.53
1:A:222:LEU:HD21	1:B:622:GLN:OE1	2.09	0.53
1:A:452:VAL:HG22	1:A:883:VAL:CG2	2.38	0.53
1:A:563:PHE:O	1:A:564:LEU:HB2	2.07	0.53
1:A:708:GLN:HE22	1:D:809:GLU:CD	2.17	0.53
1:B:211:ASN:OD1	1:B:240:LEU:HG	2.09	0.53
1:B:232:ALA:HB1	1:C:724:PRO:O	2.09	0.53
1:B:628:PHE:CE2	2:B:2001:LMT:H111	2.44	0.53
1:B:1019:TRP:CD1	1:B:1022:LEU:HD13	2.44	0.53
1:D:223:PRO:HD3	1:E:275:TYR:CD2	2.44	0.53
1:D:451:ALA:HB1	1:D:882:VAL:HG12	1.90	0.53
1:E:193:LEU:HD13	1:E:265:VAL:CG1	2.31	0.53
1:F:699:ARG:O	1:F:699:ARG:HG2	2.07	0.53
1:F:706:ALA:HA	1:F:712:LEU:HD22	1.91	0.53
1:A:570:GLY:O	1:A:630:MET:HE3	2.08	0.53
1:A:754:GLY:HA2	1:C:217:GLY:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:951:LEU:O	1:A:956:LYS:HB2	2.09	0.53
1:B:151:LYS:HZ1	2:B:2001:LMT:H21	1.74	0.53
1:B:273:GLN:HG3	1:B:771:TYR:CE2	2.44	0.53
1:B:282:ASN:HA	1:B:595:ARG:HD2	1.90	0.53
1:C:20:MET:SD	1:C:373:PRO:O	2.66	0.53
1:C:163:GLN:O	1:C:166:LEU:N	2.39	0.53
1:C:417:GLU:HA	1:C:417:GLU:OE2	2.08	0.53
1:D:47:VAL:HG22	1:D:48:SER:N	2.24	0.53
1:D:187:TRP:C	1:D:266:ALA:HB1	2.34	0.53
1:D:598:LEU:HD21	1:D:629:ILE:HD13	1.89	0.53
1:D:780:MET:SD	1:F:220:GLY:HA2	2.48	0.53
1:E:188:LEU:HA	1:E:266:ALA:HB2	1.91	0.53
1:E:581:GLY:O	1:E:582:SER:O	2.27	0.53
1:E:703:LEU:O	1:E:706:ALA:HB3	2.09	0.53
1:F:38:ILE:CD1	1:F:674:LEU:HD21	2.39	0.53
1:F:202:ASP:OD1	1:F:203:VAL:N	2.42	0.53
1:F:616:ASN:C	1:F:616:ASN:ND2	2.67	0.53
1:A:355:MET:HE3	1:A:365:THR:HG23	1.90	0.53
1:A:775:ARG:HE	1:A:777:ASP:CG	2.17	0.53
1:B:1006:ILE:O	1:B:1010:VAL:HG23	2.09	0.53
1:C:82:SER:O	1:C:814:LYS:HA	2.09	0.53
1:C:263:LYS:HG3	1:C:264:ASP:OD1	2.08	0.53
1:C:345:GLY:HA2	1:C:348:ILE:HG23	1.91	0.53
1:C:399:VAL:O	1:C:402:ILE:CG1	2.54	0.53
1:C:453:PHE:CE2	1:C:474:ILE:HD13	2.43	0.53
1:C:680:PHE:CE1	1:C:682:LEU:HD22	2.43	0.53
1:D:244:GLU:HA	1:D:247:GLU:CG	2.39	0.53
1:D:439:GLN:O	1:D:440:GLY:O	2.26	0.53
1:F:910:GLY:O	1:F:1007:GLY:HA3	2.08	0.53
1:F:958:ILE:H	1:F:958:ILE:CD1	2.07	0.53
1:A:924:VAL:HG23	1:A:925:PHE:N	2.24	0.53
1:B:80:SER:HB3	1:B:90:ILE:HG12	1.91	0.53
1:C:198:LEU:HD13	1:C:251:LEU:HG	1.91	0.53
1:C:246:PHE:HB2	1:C:268:VAL:HG11	1.91	0.53
1:C:439:GLN:HG3	1:C:440:GLY:N	2.24	0.53
1:D:843:VAL:C	1:D:845:GLU:N	2.66	0.53
1:D:916:SER:C	1:D:918:ARG:H	2.17	0.53
1:E:617:PHE:O	1:E:618:ALA:HB2	2.09	0.53
1:F:641:GLU:HG3	1:F:646:GLU:HG2	1.91	0.53
1:A:521:LEU:O	1:A:524:THR:HB	2.09	0.52
1:A:649:LYS:HE3	1:A:652:GLN:HG2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:947:PHE:CD2	1:A:969:ARG:HD3	2.43	0.52
1:B:5:PHE:CD1	1:B:487:ILE:HG23	2.44	0.52
1:B:354:VAL:HG21	1:B:979:ALA:HB2	1.91	0.52
1:B:714:ARG:HD2	1:B:829:GLU:OE1	2.09	0.52
1:B:755:SER:HA	1:B:773:GLN:HB3	1.91	0.52
1:B:781:ASN:O	1:B:784:ASP:OD1	2.26	0.52
1:B:782:PRO:O	1:B:785:LEU:HG	2.08	0.52
1:C:5:PHE:CE2	1:C:487:ILE:HG23	2.44	0.52
1:D:32:VAL:HG21	1:D:337:ILE:CD1	2.39	0.52
1:D:251:LEU:HD12	1:D:260:VAL:HG12	1.91	0.52
1:D:293:LEU:HG	1:D:297:ALA:HB3	1.89	0.52
1:D:762:ILE:HG23	1:D:766:ARG:O	2.08	0.52
1:F:643:SER:O	1:F:644:VAL:C	2.51	0.52
1:F:654:HIS:C	1:F:654:HIS:ND1	2.66	0.52
1:A:78:ILE:HG23	1:A:819:ASN:HA	1.91	0.52
1:A:155:SER:HB3	1:A:180:SER:O	2.08	0.52
1:A:211:ASN:CG	1:A:211:ASN:O	2.52	0.52
1:A:437:GLN:C	1:A:438:ILE:HG23	2.34	0.52
1:A:741:SER:O	1:A:745:ILE:HG13	2.08	0.52
1:B:250:LEU:CD2	1:B:261:ARG:HG3	2.39	0.52
1:C:583:SER:HA	1:C:622:GLN:HB3	1.91	0.52
1:C:928:VAL:O	1:C:932:THR:CG2	2.56	0.52
1:D:970:LEU:O	1:D:971:ARG:C	2.52	0.52
1:E:84:SER:C	1:E:86:GLY:H	2.18	0.52
1:E:465:VAL:O	1:E:469:GLN:HG2	2.09	0.52
1:E:629:ILE:H	1:E:629:ILE:CD1	2.22	0.52
1:F:391:ASN:C	1:F:391:ASN:OD1	2.52	0.52
1:F:578:THR:HG1	1:F:623:SER:HB2	1.73	0.52
1:F:902:LEU:HB3	1:F:1023:PHE:CZ	2.44	0.52
1:F:945:VAL:HG23	1:F:1020:VAL:HG12	1.91	0.52
1:A:57:VAL:HG21	1:A:88:MET:HB3	1.90	0.52
1:A:133:VAL:CG1	1:A:134:LYS:N	2.71	0.52
1:A:167:SER:O	1:B:70:ASN:HB2	2.09	0.52
1:A:199:THR:O	1:A:202:ASP:HB2	2.09	0.52
1:A:456:MET:O	1:A:467:TYR:HB3	2.09	0.52
1:B:48:SER:HB3	2:B:2001:LMT:O2B	2.09	0.52
1:B:414:GLU:CD	1:B:972:PRO:HG3	2.33	0.52
1:B:905:PRO:HA	1:B:908:VAL:CG1	2.39	0.52
1:C:157:TYR:HE2	1:C:162:ILE:HD11	1.74	0.52
1:C:188:LEU:HA	1:C:266:ALA:HB2	1.91	0.52
1:C:361:ASN:O	1:C:362:PHE:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:452:VAL:HG11	1:C:934:ILE:HD12	1.91	0.52
1:C:527:TYR:OH	1:C:1017:ILE:HB	2.09	0.52
1:C:680:PHE:HE1	1:C:682:LEU:HD22	1.74	0.52
1:D:172:VAL:CG2	1:D:291:ILE:HG23	2.39	0.52
1:D:606:VAL:HG12	1:D:607:SER:N	2.23	0.52
1:E:693:GLU:OE1	1:E:693:GLU:N	2.42	0.52
1:E:803:PHE:C	1:E:805:THR:H	2.16	0.52
1:A:454:LEU:CD2	1:A:475:VAL:HG11	2.40	0.52
1:A:539:ALA:HB3	1:A:540:PRO:HD3	1.91	0.52
1:B:234:ILE:HG22	1:C:726:TYR:HB3	1.92	0.52
1:B:669:PRO:HG3	1:B:675:GLY:HA2	1.91	0.52
1:C:383:LEU:HD21	1:C:473:THR:HG22	1.92	0.52
1:D:360:GLN:HG2	1:D:513:PHE:CD1	2.44	0.52
1:D:913:LEU:HB3	1:D:917:MET:HE2	1.91	0.52
1:D:1009:MET:O	1:D:1013:THR:HG22	2.09	0.52
1:E:493:CYS:CA	1:E:497:LEU:HD22	2.39	0.52
1:E:702:PHE:CZ	1:E:843:VAL:HG13	2.45	0.52
1:F:67:GLN:C	1:F:67:GLN:CD	2.78	0.52
1:F:250:LEU:HG	1:F:261:ARG:NH2	2.23	0.52
1:F:830:PRO:HA	1:F:839:ALA:HB2	1.90	0.52
1:A:643:SER:OG	1:A:644:VAL:N	2.39	0.52
1:B:445:ILE:O	1:B:445:ILE:HG13	1.98	0.52
1:C:46:GLN:HG2	1:C:89:THR:HG1	1.74	0.52
1:C:219:LEU:O	1:C:231:ASN:HA	2.09	0.52
1:C:303:ALA:O	1:C:306:ILE:HD13	2.10	0.52
1:C:395:MET:HE2	1:C:398:MET:HG3	1.90	0.52
1:C:444:GLY:O	1:C:448:VAL:HG22	2.09	0.52
1:C:451:ALA:HA	1:C:454:LEU:HG	1.90	0.52
1:D:12:ALA:O	1:D:13:TRP:C	2.51	0.52
1:D:458:PHE:CE2	2:D:2001:LMT:H52	2.44	0.52
1:D:726:TYR:CE2	1:D:806:GLY:HA3	2.45	0.52
1:D:987:LEU:HA	1:D:998:GLN:NE2	2.23	0.52
1:E:88:MET:HE1	1:E:90:ILE:HD11	1.91	0.52
1:E:414:GLU:OE2	1:E:972:PRO:HG3	2.10	0.52
1:E:896:ILE:N	1:E:897:PRO:CD	2.72	0.52
1:F:252:LYS:O	1:F:260:VAL:HG23	2.10	0.52
1:F:696:LEU:O	1:F:700:ASN:ND2	2.42	0.52
1:F:984:VAL:HG23	1:F:1006:ILE:HD11	1.92	0.52
1:A:395:MET:O	1:A:399:VAL:HG23	2.09	0.52
1:A:472:ILE:HD13	1:A:473:THR:H	1.75	0.52
1:A:888:ALA:HB1	1:A:893:SER:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:47:VAL:CG1	1:B:127:ILE:HG13	2.39	0.52
1:B:395:MET:O	1:B:398:MET:N	2.31	0.52
1:B:971:ARG:N	1:B:972:PRO:HD2	2.25	0.52
1:C:172:VAL:HG13	1:C:291:ILE:HD12	1.92	0.52
1:C:801:ASN:C	1:C:803:PHE:H	2.17	0.52
1:D:18:VAL:HG11	2:E:2002:LMT:C12	2.40	0.52
1:D:212:VAL:HG22	1:D:237:LYS:HG2	1.92	0.52
1:D:519:MET:SD	1:D:519:MET:C	2.93	0.52
1:D:753:TRP:C	1:F:217:GLY:HA3	2.34	0.52
1:E:182:TYR:HB3	1:E:270:LEU:HD22	1.91	0.52
1:E:597:TYR:CD1	1:E:597:TYR:C	2.86	0.52
1:F:958:ILE:HG22	1:F:1025:VAL:HG22	1.91	0.52
1:A:57:VAL:O	1:A:62:VAL:HG23	2.10	0.52
1:A:57:VAL:HG13	1:A:82:SER:HB3	1.91	0.52
1:A:527:TYR:CE2	1:A:1017:ILE:HB	2.44	0.52
1:B:392:THR:HG22	1:B:393:LEU:HD12	1.91	0.52
1:B:909:ILE:O	1:B:913:LEU:HB2	2.09	0.52
1:C:403:GLY:O	1:C:407:ASP:OD1	2.28	0.52
1:C:415:ASN:O	1:C:419:VAL:HG23	2.10	0.52
1:C:520:PHE:HA	1:C:523:THR:CG2	2.36	0.52
1:C:763:ASP:C	1:C:763:ASP:OD1	2.53	0.52
1:D:560:PRO:O	1:D:921:SER:HB2	2.09	0.52
1:D:637:ARG:N	1:D:638:PRO:CD	2.72	0.52
1:D:943:LEU:HD13	1:D:969:ARG:HE	1.74	0.52
1:E:969:ARG:HG3	1:E:969:ARG:NH1	2.23	0.52
1:F:138:MET:HG2	1:F:291:ILE:HG12	1.90	0.52
1:F:189:ASP:O	1:F:193:LEU:HB2	2.09	0.52
1:A:419:VAL:CG2	1:A:430:ALA:HB1	2.40	0.52
1:A:620:ARG:O	1:A:624:SER:OG	2.24	0.52
1:B:751:ILE:O	1:B:751:ILE:HG22	2.09	0.52
1:C:584:ALA:O	1:C:588:GLN:HB2	2.10	0.52
1:C:616:ASN:C	1:C:616:ASN:ND2	2.68	0.52
1:C:713:GLN:HE21	1:C:714:ARG:NE	2.02	0.52
1:D:203:VAL:O	1:D:207:ILE:HG13	2.10	0.52
1:D:864:GLU:OE1	1:D:864:GLU:HA	2.09	0.52
1:E:72:ILE:CG1	1:E:75:LEU:HD12	2.40	0.52
1:E:917:MET:HA	1:E:917:MET:HE2	1.91	0.52
1:E:986:PRO:O	1:E:990:SER:HB3	2.10	0.52
1:F:5:PHE:CD2	1:F:487:ILE:HG23	2.45	0.52
1:F:635:GLU:C	1:F:637:ARG:H	2.18	0.52
1:A:56:THR:HG23	1:C:213:GLN:CG	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:72:ILE:HG23	1:A:106:GLN:HB3	1.92	0.52
1:A:166:LEU:O	1:A:172:VAL:HG11	2.10	0.52
1:A:762:ILE:HD11	1:B:59:ASP:HB3	1.91	0.52
1:A:808:TRP:O	1:D:705:LEU:HD22	2.10	0.52
1:B:469:GLN:O	1:B:473:THR:CG2	2.57	0.52
1:B:578:THR:HB	1:B:579:PRO:HD2	1.92	0.52
1:B:745:ILE:HD12	1:B:803:PHE:HZ	1.75	0.52
1:C:760:ASP:HB3	1:C:767:VAL:HG13	1.92	0.52
1:D:198:LEU:HD11	1:D:260:VAL:HG11	1.92	0.52
1:D:252:LYS:HG3	1:D:253:VAL:H	1.74	0.52
1:F:862:SER:O	1:F:865:GLU:HB3	2.10	0.52
1:A:718:ASN:HB2	1:A:827:LEU:HD22	1.92	0.52
1:B:845:GLU:O	1:B:848:LYS:HB2	2.10	0.52
1:C:452:VAL:CG1	1:C:934:ILE:HD12	2.40	0.52
1:C:544:ILE:O	1:C:548:ILE:HG12	2.10	0.52
1:C:563:PHE:C	1:C:564:LEU:HD22	2.34	0.52
1:C:638:PRO:O	1:C:642:ASN:HB2	2.10	0.52
1:D:15:ILE:O	1:D:19:ILE:HG13	2.10	0.52
1:D:162:ILE:O	1:D:165:PRO:HD2	2.10	0.52
1:E:555:MET:HG2	1:E:912:LEU:HB3	1.92	0.52
1:F:453:PHE:CZ	1:F:932:THR:HB	2.41	0.52
1:F:504:ASP:O	1:F:506:GLY:N	2.42	0.52
1:F:709:ASN:HB3	1:F:712:LEU:HD13	1.92	0.52
1:F:864:GLU:O	1:F:867:LEU:HB3	2.10	0.52
1:A:88:MET:SD	1:A:88:MET:C	2.92	0.51
1:B:705:LEU:HD21	1:B:849:GLN:OE1	2.10	0.51
1:B:751:ILE:HG23	1:B:756:SER:HB3	1.91	0.51
1:C:569:GLN:O	1:C:571:VAL:HG13	2.10	0.51
1:C:591:VAL:O	1:C:594:MET:HG3	2.10	0.51
1:D:314:GLU:HG2	1:D:323:VAL:HG21	1.93	0.51
1:D:563:PHE:O	1:D:564:LEU:HB2	2.10	0.51
1:D:601:LYS:HD3	1:D:601:LYS:N	2.24	0.51
1:E:375:VAL:HG12	1:E:405:LEU:HD13	1.92	0.51
1:F:563:PHE:O	1:F:923:ASP:HB2	2.09	0.51
1:A:644:VAL:HG13	1:A:645:PHE:N	2.25	0.51
1:B:261:ARG:HD3	1:B:261:ARG:H	1.75	0.51
1:B:538:ARG:O	1:B:541:TYR:N	2.36	0.51
1:B:568:ASP:O	1:B:634:TRP:NE1	2.39	0.51
1:C:36:PRO:HG2	1:C:38:ILE:HG22	1.91	0.51
1:C:354:VAL:O	1:C:357:LEU:HB3	2.11	0.51
1:C:641:GLU:CA	1:C:650:ARG:HH12	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:687:GLN:C	1:C:689:GLY:H	2.18	0.51
1:D:139:VAL:HG22	1:D:327:TYR:CB	2.41	0.51
1:D:162:ILE:C	1:D:165:PRO:HD2	2.36	0.51
1:D:283:GLY:HA2	1:D:595:ARG:CZ	2.40	0.51
1:D:375:VAL:HB	1:D:405:LEU:HD22	1.91	0.51
1:D:542:LEU:O	1:D:546:VAL:HG23	2.11	0.51
1:E:622:GLN:C	1:E:624:SER:H	2.18	0.51
1:E:789:TYR:HD1	1:E:797:MET:O	1.92	0.51
1:F:211:ASN:HA	1:F:240:LEU:HD13	1.91	0.51
1:F:504:ASP:O	1:F:504:ASP:CG	2.53	0.51
1:F:705:LEU:HD22	1:F:849:GLN:HE22	1.74	0.51
1:F:730:ILE:HD13	1:F:730:ILE:N	2.19	0.51
1:A:1024:TYR:O	1:A:1028:SER:CB	2.58	0.51
1:B:47:VAL:HG13	1:B:127:ILE:CA	2.39	0.51
2:B:2001:LMT:O2'	2:B:2001:LMT:C1	2.57	0.51
1:C:184:MET:HE3	1:C:185:ARG:N	2.26	0.51
1:C:236:GLY:O	1:C:238:THR:HG23	2.10	0.51
1:C:682:LEU:HD23	1:C:682:LEU:H	1.75	0.51
1:C:1027:VAL:O	1:C:1030:LEU:HB2	2.10	0.51
1:D:233:THR:HB	1:E:725:GLN:HE21	1.75	0.51
1:D:240:LEU:HD22	1:D:245:GLN:HG2	1.93	0.51
1:D:519:MET:SD	1:D:523:THR:OG1	2.68	0.51
1:D:695:LEU:HD13	1:D:824:MET:HE3	1.91	0.51
1:E:218:GLN:HG2	1:E:233:THR:HG22	1.93	0.51
1:E:351:VAL:O	1:E:355:MET:HB2	2.09	0.51
1:E:678:THR:CG2	1:E:679:GLY:H	2.15	0.51
1:E:747:SER:O	1:E:751:ILE:HG12	2.11	0.51
1:F:747:SER:O	1:F:751:ILE:HG13	2.09	0.51
1:F:816:GLU:O	1:F:817:ARG:HG3	2.11	0.51
1:B:23:GLY:O	1:B:27:ILE:HG23	2.11	0.51
1:C:407:ASP:O	1:C:410:ILE:N	2.40	0.51
1:C:632:LYS:O	1:C:633:PRO:O	2.28	0.51
1:C:655:PHE:CD1	1:C:658:PHE:HB3	2.45	0.51
1:C:894:TRP:O	1:C:897:PRO:HG2	2.11	0.51
1:C:931:LEU:O	1:C:934:ILE:CG2	2.58	0.51
1:D:340:VAL:HG11	1:D:395:MET:HB3	1.92	0.51
1:E:568:ASP:OD2	1:E:644:VAL:HG23	2.11	0.51
1:E:712:LEU:O	1:E:713:GLN:HB2	2.09	0.51
1:F:155:SER:HA	1:F:287:SER:OG	2.10	0.51
1:F:970:LEU:O	1:F:974:VAL:HG23	2.09	0.51
1:A:70:ASN:O	1:A:110:LYS:HE3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:379:THR:O	1:A:382:VAL:HG22	2.10	0.51
1:A:908:VAL:O	1:A:912:LEU:HG	2.10	0.51
1:B:391:ASN:HD21	1:B:469:GLN:HE21	1.59	0.51
1:B:628:PHE:CD2	2:B:2001:LMT:H111	2.45	0.51
1:C:281:PHE:O	1:C:282:ASN:HB2	2.10	0.51
1:C:485:ALA:O	1:C:490:PRO:HD3	2.11	0.51
1:C:754:GLY:O	1:C:755:SER:C	2.53	0.51
1:D:159:VAL:HA	1:D:163:GLN:CB	2.39	0.51
1:D:168:ARG:HB2	1:E:75:LEU:HD13	1.93	0.51
1:D:219:LEU:HD23	1:D:230:LEU:HD21	1.93	0.51
1:E:899:SER:HA	1:E:1023:PHE:HB3	1.92	0.51
1:F:152:GLU:H	1:F:152:GLU:CD	2.15	0.51
1:F:157:TYR:CZ	1:F:317:MET:HG2	2.46	0.51
1:A:27:ILE:HG23	2:A:1101:LMT:C3	2.40	0.51
1:A:70:ASN:HB2	1:C:167:SER:HB2	1.91	0.51
1:A:307:ARG:HH11	1:A:307:ARG:HG3	1.75	0.51
1:A:324:VAL:HG22	1:A:325:TYR:H	1.76	0.51
1:B:455:PRO:O	1:B:456:MET:C	2.53	0.51
1:B:578:THR:HB	1:B:579:PRO:CD	2.39	0.51
1:C:3:LYS:HA	1:C:6:ILE:HD12	1.92	0.51
1:E:277:ILE:HG13	1:E:613:THR:O	2.11	0.51
1:F:730:ILE:HA	1:F:803:PHE:O	2.09	0.51
1:A:145:THR:C	1:A:147:GLY:H	2.18	0.51
1:A:410:ILE:HA	1:A:413:VAL:CG1	2.39	0.51
1:B:248:ASN:O	1:B:250:LEU:N	2.44	0.51
1:C:26:SER:O	1:C:30:LEU:HD13	2.11	0.51
1:D:115:THR:HB	1:D:116:PRO:HD3	1.91	0.51
1:D:219:LEU:HD12	1:D:234:ILE:CG1	2.40	0.51
1:E:215:SER:HA	1:F:51:GLY:HA3	1.93	0.51
1:F:452:VAL:HG22	1:F:883:VAL:CG2	2.34	0.51
1:F:502:LYS:HD2	1:F:503:GLY:N	2.25	0.51
1:F:804:ALA:O	1:F:805:THR:HB	2.11	0.51
1:A:149:MET:CE	1:A:153:ASP:HB3	2.38	0.51
1:A:576:VAL:HB	1:A:625:GLY:O	2.10	0.51
1:A:794:LYS:HG3	1:A:796:GLU:HG3	1.93	0.51
1:B:49:TYR:CE2	1:B:60:THR:HG21	2.45	0.51
1:B:781:ASN:HB3	1:B:782:PRO:HD2	1.93	0.51
1:C:3:LYS:HD3	1:C:432:ARG:HH12	1.76	0.51
1:F:280:GLN:HB3	1:F:283:GLY:O	2.11	0.51
1:F:361:ASN:HD21	1:F:498:LYS:HD2	1.76	0.51
1:F:400:LEU:HD21	1:F:1001:ILE:HD11	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:408:ASP:O	1:F:412:VAL:HG23	2.11	0.51
1:F:876:TYR:O	1:F:880:LEU:HD22	2.11	0.51
1:B:541:TYR:CA	1:B:544:ILE:HG22	2.39	0.51
1:D:300:LEU:HD23	1:D:330:THR:HB	1.91	0.51
1:D:713:GLN:O	1:D:715:VAL:N	2.44	0.51
1:D:904:VAL:CB	1:D:905:PRO:HD3	2.40	0.51
1:E:360:GLN:HG2	1:E:513:PHE:CZ	2.46	0.51
1:E:843:VAL:O	1:E:847:VAL:HG23	2.11	0.51
1:E:848:LYS:C	1:E:850:LEU:H	2.19	0.51
1:E:918:ARG:NH1	1:E:988:ALA:O	2.41	0.51
1:F:971:ARG:HB3	1:F:972:PRO:CD	2.40	0.51
1:A:632:LYS:HD3	1:A:636:GLU:HB3	1.91	0.51
1:B:159:VAL:HG13	1:B:177:VAL:HG21	1.92	0.51
1:B:438:ILE:O	1:B:440:GLY:N	2.44	0.51
1:B:933:THR:HG21	1:B:1008:GLY:HA3	1.91	0.51
1:C:713:GLN:HG2	1:C:714:ARG:HG3	1.92	0.51
1:D:702:PHE:C	1:D:702:PHE:CD2	2.89	0.51
1:D:780:MET:HE3	1:F:228:GLN:CG	2.41	0.51
1:D:974:VAL:O	1:D:978:LEU:HB2	2.10	0.51
1:E:162:ILE:O	1:E:165:PRO:HD2	2.12	0.51
1:E:257:GLY:O	1:E:258:SER:C	2.53	0.51
1:E:445:ILE:HG13	1:E:446:ALA:N	2.25	0.51
1:E:622:GLN:O	1:E:624:SER:N	2.44	0.51
2:E:2002:LMT:O2'	2:E:2002:LMT:H11	2.10	0.51
1:F:197:GLN:C	1:F:797:MET:HE1	2.36	0.51
1:F:983:GLY:O	1:F:986:PRO:HD2	2.11	0.51
1:A:133:VAL:CG1	1:A:135:ASN:OD1	2.58	0.50
1:A:584:ALA:HB2	1:A:622:GLN:CG	2.41	0.50
1:A:929:GLY:O	1:A:1005:VAL:HG12	2.11	0.50
1:B:706:ALA:HA	1:B:846:ILE:HD11	1.93	0.50
1:C:340:VAL:HA	1:C:343:THR:HG23	1.92	0.50
1:C:743:ALA:HB1	1:C:746:ASN:CG	2.35	0.50
1:D:157:TYR:CE2	1:D:317:MET:HE2	2.46	0.50
1:D:399:VAL:O	1:D:402:ILE:HG12	2.10	0.50
1:F:240:LEU:HA	1:F:245:GLN:NE2	2.25	0.50
1:F:818:TYR:O	1:F:819:ASN:HB2	2.11	0.50
1:F:985:VAL:HB	1:F:986:PRO:HD3	1.93	0.50
1:A:554:TRP:O	1:A:557:THR:OG1	2.29	0.50
1:A:847:VAL:O	1:A:847:VAL:HG22	2.11	0.50
1:B:203:VAL:HG12	1:B:207:ILE:HD11	1.94	0.50
1:B:370:ILE:O	1:B:374:VAL:HG23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:563:PHE:O	1:B:564:LEU:HD23	2.11	0.50
1:C:156:ASN:ND2	1:C:768:LYS:HE2	2.25	0.50
1:C:466:ILE:O	1:C:467:TYR:C	2.54	0.50
1:C:658:PHE:HD1	1:C:659:LYS:HG3	1.75	0.50
1:D:405:LEU:HD12	1:D:406:VAL:N	2.25	0.50
1:D:685:GLN:CG	1:D:687:GLN:HE22	2.24	0.50
1:D:1009:MET:HA	1:D:1009:MET:HE3	1.93	0.50
1:E:353:LEU:O	1:E:356:TYR:N	2.33	0.50
1:F:150:THR:O	1:F:151:LYS:C	2.54	0.50
1:F:578:THR:HA	1:F:661:ALA:HB1	1.93	0.50
1:F:826:ILE:C	1:F:827:LEU:HD23	2.36	0.50
1:A:140:VAL:HB	1:A:289:ILE:CD1	2.41	0.50
1:C:57:VAL:O	1:C:61:VAL:HB	2.12	0.50
1:D:655:PHE:CZ	1:D:660:ASP:HB3	2.45	0.50
1:F:219:LEU:O	1:F:231:ASN:HA	2.12	0.50
1:F:683:PHE:CZ	1:F:825:GLU:HB2	2.45	0.50
1:F:977:SER:CB	1:F:1009:MET:HE2	2.41	0.50
1:A:213:GLN:OE1	1:B:56:THR:HG22	2.11	0.50
1:B:573:PHE:HD2	1:B:666:PHE:HE1	1.58	0.50
1:C:318:PRO:HG2	1:C:321:MET:HG2	1.94	0.50
1:C:567:GLU:HG3	1:C:568:ASP:H	1.76	0.50
1:D:219:LEU:O	1:D:221:GLY:N	2.41	0.50
1:D:417:GLU:HA	1:D:420:MET:CE	2.42	0.50
1:E:134:LYS:HZ2	1:E:134:LYS:HB2	1.76	0.50
1:E:541:TYR:CA	1:E:544:ILE:HG22	2.40	0.50
1:E:578:THR:HB	1:E:579:PRO:CD	2.40	0.50
1:F:685:GLN:O	1:F:855:GLY:O	2.30	0.50
1:A:27:ILE:HD13	2:A:1101:LMT:H72	1.92	0.50
1:A:157:TYR:CE1	1:A:318:PRO:HD3	2.46	0.50
1:A:254:ASN:HB2	1:A:257:GLY:O	2.12	0.50
1:A:739:GLY:HA3	1:A:792:ASN:HB2	1.93	0.50
1:A:831:ALA:HB3	1:A:834:LEU:HG	1.93	0.50
1:A:847:VAL:HG23	1:A:850:LEU:HD12	1.92	0.50
1:A:851:PRO:O	1:A:852:LYS:C	2.54	0.50
1:B:531:VAL:O	1:B:535:LEU:HG	2.12	0.50
1:C:914:ALA:O	1:C:915:THR:C	2.54	0.50
1:D:577:GLN:HA	1:D:623:SER:O	2.12	0.50
1:D:800:PHE:C	1:D:802:ALA:H	2.20	0.50
1:E:575:GLN:CD	1:E:617:PHE:HB2	2.36	0.50
1:E:674:LEU:CG	1:E:861:LEU:HD11	2.42	0.50
1:E:887:LEU:O	1:E:888:ALA:C	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:283:GLY:H	1:F:595:ARG:NH2	2.10	0.50
1:F:502:LYS:C	1:F:504:ASP:H	2.19	0.50
1:F:594:MET:O	1:F:598:LEU:HB2	2.10	0.50
1:F:863:TYR:O	1:F:864:GLU:C	2.51	0.50
1:A:742:LEU:CD1	1:A:742:LEU:H	2.24	0.50
1:A:791:ARG:NE	1:A:797:MET:HE1	2.27	0.50
1:A:875:LEU:CD2	1:A:931:LEU:HD11	2.32	0.50
1:B:501:GLU:HG3	1:B:504:ASP:CB	2.42	0.50
1:B:694:VAL:O	1:B:697:GLN:N	2.43	0.50
1:B:732:ASP:HA	1:B:735:ALA:HB3	1.94	0.50
1:B:847:VAL:HG11	1:B:856:TYR:CE2	2.47	0.50
1:B:971:ARG:HB3	1:B:972:PRO:CD	2.42	0.50
1:B:985:VAL:HB	1:B:986:PRO:HD3	1.94	0.50
1:C:47:VAL:HG22	1:C:127:ILE:HG23	1.92	0.50
1:C:131:LYS:HD3	1:C:295:THR:HG21	1.92	0.50
1:C:175:PHE:HB2	1:C:289:ILE:HD11	1.94	0.50
1:C:280:GLN:HE21	1:C:588:GLN:HE22	1.60	0.50
1:C:391:ASN:N	1:C:391:ASN:ND2	2.60	0.50
1:C:896:ILE:CD1	1:C:896:ILE:H	2.24	0.50
1:D:193:LEU:HG	1:D:198:LEU:O	2.12	0.50
1:D:219:LEU:HD22	1:D:232:ALA:HB3	1.93	0.50
1:D:293:LEU:HD13	1:D:302:THR:HG21	1.91	0.50
1:D:754:GLY:O	1:D:755:SER:CB	2.60	0.50
1:F:682:LEU:HB3	1:F:858:TRP:CE3	2.47	0.50
1:F:789:TYR:HB3	1:F:797:MET:HG2	1.92	0.50
1:A:672:LEU:O	1:A:674:LEU:N	2.44	0.50
1:A:780:MET:HE3	1:C:228:GLN:NE2	2.27	0.50
1:A:865:GLU:C	1:A:867:LEU:N	2.70	0.50
1:B:58:GLN:O	1:B:63:GLN:HG3	2.12	0.50
1:B:74:ASN:O	1:B:94:PHE:HB3	2.11	0.50
1:B:223:PRO:HD3	1:C:275:TYR:CE2	2.47	0.50
1:B:298:ASN:HB3	1:B:301:ASP:HB2	1.93	0.50
1:C:200:PRO:O	1:C:203:VAL:HB	2.12	0.50
1:C:486:LEU:HD23	2:C:2002:LMT:H12	1.94	0.50
1:D:99:ASP:CB	1:D:102:ILE:HD12	2.41	0.50
1:D:587:THR:C	1:D:589:VAL:H	2.20	0.50
1:E:541:TYR:O	1:E:544:ILE:HG22	2.12	0.50
1:E:576:VAL:HG22	1:E:663:VAL:HG13	1.94	0.50
1:E:738:LEU:O	1:E:792:ASN:HB2	2.11	0.50
1:F:265:VAL:O	1:F:266:ALA:HB2	2.12	0.50
1:F:453:PHE:CD2	1:F:474:ILE:HG21	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:457:ALA:HB1	1:F:468:ARG:HG2	1.93	0.50
1:F:799:PRO:HB2	1:F:801:ASN:OD1	2.12	0.50
1:F:908:VAL:O	1:F:911:ALA:HB3	2.11	0.50
1:A:597:TYR:O	1:A:601:LYS:N	2.41	0.50
1:A:742:LEU:HD12	1:A:742:LEU:H	1.76	0.50
1:A:993:ALA:C	1:A:995:SER:H	2.19	0.50
1:C:143:VAL:HG12	1:C:322:LYS:CG	2.42	0.50
1:D:102:ILE:HD13	1:F:101:ASP:OD2	2.12	0.50
1:D:124:ARG:NH2	1:D:757:TYR:CD2	2.80	0.50
1:D:725:GLN:HA	1:F:232:ALA:HB1	1.93	0.50
1:D:759:ASN:C	1:D:770:VAL:HG12	2.36	0.50
1:E:11:PHE:HE1	1:E:15:ILE:HD11	1.77	0.50
1:E:171:GLY:HA3	1:E:302:THR:HG22	1.93	0.50
1:E:340:VAL:O	1:E:344:LEU:HG	2.12	0.50
1:E:740:VAL:HG22	1:E:745:ILE:HD11	1.92	0.50
1:F:428:ARG:O	1:F:432:ARG:HG3	2.12	0.50
1:A:104:GLN:OE1	1:A:131:LYS:NZ	2.45	0.50
1:A:601:LYS:O	1:A:602:GLU:HG2	2.11	0.50
1:A:754:GLY:HA2	1:C:217:GLY:CA	2.41	0.50
1:B:247:GLU:HG2	1:B:268:VAL:CG2	2.39	0.50
1:B:574:ALA:HA	1:B:664:PHE:O	2.12	0.50
1:C:896:ILE:N	1:C:896:ILE:CD1	2.75	0.50
1:D:597:TYR:HD2	1:D:601:LYS:HE3	1.77	0.50
1:D:985:VAL:HG13	1:D:989:ILE:HD12	1.94	0.50
1:E:142:VAL:HG21	1:E:158:ILE:CD1	2.23	0.50
1:A:330:THR:HG1	1:A:331:PRO:HD3	1.77	0.49
1:A:344:LEU:O	1:A:348:ILE:HG22	2.12	0.49
1:A:684:LEU:HD12	1:A:684:LEU:N	2.27	0.49
1:A:974:VAL:HG12	1:A:975:MET:N	2.25	0.49
1:A:995:SER:O	1:A:996:GLY:C	2.53	0.49
1:B:463:THR:HG22	1:B:563:PHE:CE1	2.45	0.49
1:B:990:SER:O	1:B:999:HIS:NE2	2.40	0.49
1:C:328:ASP:C	1:C:328:ASP:OD1	2.55	0.49
1:C:960:GLU:O	1:C:963:ILE:HB	2.12	0.49
1:C:962:ALA:O	1:C:965:ALA:HB3	2.12	0.49
1:E:126:GLY:HA3	1:F:116:PRO:HB3	1.94	0.49
1:E:577:GLN:HA	1:E:624:SER:OG	2.11	0.49
1:F:79:SER:HB3	1:F:818:TYR:HD1	1.77	0.49
1:F:293:LEU:HD21	1:F:297:ALA:O	2.12	0.49
1:F:314:GLU:N	1:F:315:PRO:HD2	2.27	0.49
1:F:779:ARG:O	1:F:779:ARG:HD2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:6:ILE:CD1	1:A:431:ALA:HB1	2.42	0.49
1:A:72:ILE:HD12	1:A:106:GLN:HB3	1.93	0.49
1:A:527:TYR:CE1	1:A:966:CYS:HB3	2.47	0.49
1:A:989:ILE:HG23	1:A:989:ILE:O	2.11	0.49
1:B:681:ASP:OD2	1:B:825:GLU:OE2	2.30	0.49
1:C:188:LEU:O	1:C:775:ARG:HG3	2.12	0.49
1:C:430:ALA:O	1:C:434:SER:HB2	2.13	0.49
1:D:183:SER:HB2	1:D:769:ARG:O	2.12	0.49
1:D:328:ASP:OD1	1:D:329:THR:N	2.45	0.49
1:D:459:PHE:O	1:D:464:GLY:HA3	2.12	0.49
1:D:685:GLN:CB	1:D:687:GLN:HE22	2.24	0.49
1:E:294:ALA:O	1:E:295:THR:C	2.52	0.49
1:E:830:PRO:HB2	1:E:834:LEU:HB2	1.94	0.49
1:F:5:PHE:O	1:F:491:ALA:HB2	2.12	0.49
1:F:454:LEU:HB2	1:F:455:PRO:HD3	1.93	0.49
1:F:900:VAL:HG23	1:F:901:MET:H	1.77	0.49
1:A:53:SER:O	1:A:56:THR:N	2.46	0.49
1:A:115:THR:O	1:A:118:LEU:HB2	2.13	0.49
1:A:605:SER:OG	1:A:647:LEU:HD12	2.12	0.49
1:A:700:ASN:HA	1:A:703:LEU:HB2	1.94	0.49
1:B:430:ALA:O	1:B:433:LYS:HB3	2.12	0.49
1:B:537:HIS:O	1:B:541:TYR:HD1	1.95	0.49
1:B:682:LEU:HD23	1:B:682:LEU:N	2.26	0.49
1:B:872:ALA:HB3	1:B:873:PRO:HD3	1.94	0.49
1:E:188:LEU:HD12	1:E:266:ALA:HB2	1.93	0.49
1:E:674:LEU:HG	1:E:861:LEU:HD11	1.95	0.49
1:F:58:GLN:HA	1:F:62:VAL:HB	1.93	0.49
1:F:720:MET:N	1:F:720:MET:SD	2.85	0.49
1:F:727:LYS:O	1:F:729:GLU:HG2	2.13	0.49
1:F:749:VAL:HA	1:F:753:TRP:CZ3	2.48	0.49
1:A:6:ILE:HD13	1:A:431:ALA:HB1	1.93	0.49
1:A:456:MET:HE3	1:A:931:LEU:HD12	1.95	0.49
1:A:641:GLU:OE1	1:A:641:GLU:HA	2.12	0.49
1:B:541:TYR:O	1:B:544:ILE:CG2	2.61	0.49
1:C:244:GLU:O	1:C:247:GLU:HB2	2.12	0.49
1:C:359:LEU:C	1:C:360:GLN:HG2	2.37	0.49
1:C:457:ALA:O	1:C:468:ARG:HD3	2.13	0.49
1:D:187:TRP:CH2	1:F:223:PRO:HG2	2.47	0.49
1:D:211:ASN:O	1:D:239:ARG:HG2	2.12	0.49
1:D:731:ASP:HB3	1:D:734:LYS:HB2	1.93	0.49
1:D:971:ARG:N	1:D:972:PRO:HD2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:227:GLY:O	1:E:229:GLN:N	2.45	0.49
1:E:716:ARG:O	1:E:827:LEU:HB2	2.13	0.49
1:E:933:THR:HG21	1:E:1008:GLY:HA3	1.93	0.49
1:F:185:ARG:HA	1:F:185:ARG:HH11	1.76	0.49
1:F:410:ILE:HD13	1:F:975:MET:CE	2.43	0.49
1:F:504:ASP:O	1:F:506:GLY:O	2.30	0.49
1:F:752:ALA:HB3	1:F:753:TRP:CE3	2.48	0.49
1:A:254:ASN:C	1:A:256:ASP:N	2.71	0.49
1:A:329:THR:O	1:A:332:VAL:HG12	2.12	0.49
1:A:572:LEU:CD2	1:A:647:LEU:HD22	2.43	0.49
1:A:890:LEU:HD23	1:A:890:LEU:O	2.12	0.49
1:A:933:THR:HA	1:A:1009:MET:HE3	1.93	0.49
1:A:997:SER:O	1:A:998:GLN:C	2.54	0.49
1:B:120:GLN:O	1:B:124:ARG:HG3	2.12	0.49
1:B:355:MET:O	1:B:359:LEU:HB2	2.12	0.49
1:C:899:SER:O	1:C:903:VAL:HG23	2.12	0.49
1:D:415:ASN:O	1:D:416:VAL:C	2.53	0.49
1:D:492:LEU:HD22	1:D:496:MET:HE3	1.95	0.49
1:D:555:MET:CB	1:D:912:LEU:HD13	2.42	0.49
1:E:139:VAL:CG2	1:E:326:PRO:HG2	2.43	0.49
1:E:206:ALA:HA	1:F:742:LEU:HD23	1.95	0.49
1:E:281:PHE:O	1:E:282:ASN:C	2.54	0.49
1:F:660:ASP:O	1:F:661:ALA:HB2	2.13	0.49
1:F:722:ASP:HA	1:F:813:PRO:CD	2.43	0.49
1:A:234:ILE:HG23	1:B:728:LEU:HD23	1.94	0.49
1:A:383:LEU:HD11	1:A:398:MET:HE2	1.94	0.49
1:A:416:VAL:O	1:A:420:MET:HB2	2.12	0.49
1:B:15:ILE:O	1:B:19:ILE:HG12	2.13	0.49
1:B:556:PHE:CE1	1:B:912:LEU:HD21	2.46	0.49
1:B:631:LEU:HD21	1:B:647:LEU:CD2	2.42	0.49
1:C:360:GLN:HB3	1:C:513:PHE:CE1	2.47	0.49
1:C:456:MET:HG3	1:C:471:SER:HG	1.78	0.49
1:D:616:ASN:O	1:D:617:PHE:C	2.54	0.49
1:D:646:GLU:CG	1:D:650:ARG:HH12	2.22	0.49
1:D:989:ILE:CG2	1:D:989:ILE:O	2.61	0.49
1:E:135:ASN:OD1	1:E:135:ASN:N	2.46	0.49
1:E:143:VAL:CG2	1:E:284:SER:HB2	2.43	0.49
1:E:579:PRO:O	1:E:581:GLY:N	2.45	0.49
1:E:738:LEU:HD13	1:E:798:VAL:CG1	2.36	0.49
2:E:2001:LMT:H122	2:E:2002:LMT:C12	2.40	0.49
1:F:138:MET:HG2	1:F:291:ILE:CG1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:438:ILE:O	1:F:439:GLN:C	2.54	0.49
1:F:465:VAL:O	1:F:469:GLN:HG2	2.13	0.49
1:F:468:ARG:O	1:F:472:ILE:HG22	2.13	0.49
1:F:984:VAL:O	1:F:985:VAL:C	2.55	0.49
1:F:1001:ILE:HD12	1:F:1001:ILE:C	2.38	0.49
1:A:61:VAL:O	1:A:65:ILE:HG12	2.13	0.49
1:A:108:GLN:HA	1:A:111:LEU:HB3	1.93	0.49
1:A:242:THR:H	1:A:245:GLN:NE2	2.10	0.49
1:B:162:ILE:HD13	1:B:313:LEU:HD13	1.95	0.49
1:B:527:TYR:CZ	1:B:966:CYS:HB3	2.45	0.49
1:B:685:GLN:HG2	1:B:855:GLY:C	2.38	0.49
1:C:25:LEU:HB3	2:C:2001:LMT:H3'	1.95	0.49
1:C:142:VAL:CG1	1:C:154:LEU:HB3	2.41	0.49
1:C:393:LEU:HD13	1:C:466:ILE:HB	1.94	0.49
1:C:686:ASP:OD1	1:C:695:LEU:HD11	2.12	0.49
1:D:61:VAL:O	1:D:62:VAL:C	2.54	0.49
1:D:142:VAL:HG13	1:D:158:ILE:HD11	1.95	0.49
1:D:198:LEU:C	1:D:797:MET:HE1	2.37	0.49
1:D:366:LEU:O	1:D:370:ILE:HG13	2.12	0.49
1:D:762:ILE:N	1:D:762:ILE:HD12	2.28	0.49
1:E:151:LYS:HG3	1:E:286:ALA:O	2.13	0.49
1:E:484:VAL:CG1	1:E:488:LEU:HD23	2.42	0.49
1:E:578:THR:CG2	1:E:590:VAL:HG21	2.41	0.49
1:E:649:LYS:C	1:E:651:ALA:H	2.21	0.49
1:F:714:ARG:O	1:F:716:ARG:HD3	2.12	0.49
1:A:838:ASP:C	1:A:840:MET:N	2.71	0.49
1:A:872:ALA:H	1:A:873:PRO:HD2	1.77	0.49
1:A:984:VAL:HG11	1:A:1005:VAL:HG21	1.91	0.49
1:B:189:ASP:O	1:B:193:LEU:HB2	2.13	0.49
1:B:223:PRO:HD2	1:C:187:TRP:CH2	2.48	0.49
1:B:465:VAL:HG22	1:B:468:ARG:HH21	1.78	0.49
1:B:791:ARG:HG3	1:B:795:GLY:HA2	1.95	0.49
1:C:2:SER:H	2:C:2002:LMT:H6D	1.78	0.49
1:C:527:TYR:O	1:C:531:VAL:HG23	2.13	0.49
1:C:527:TYR:CZ	1:C:1017:ILE:HB	2.48	0.49
1:C:912:LEU:O	1:C:913:LEU:C	2.56	0.49
1:C:1009:MET:HA	1:C:1009:MET:HE2	1.95	0.49
1:D:958:ILE:HG12	1:D:959:VAL:N	2.28	0.49
1:E:72:ILE:HG12	1:E:75:LEU:HD12	1.95	0.49
1:E:713:GLN:O	1:E:715:VAL:N	2.45	0.49
1:E:740:VAL:HG23	1:E:791:ARG:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:24:GLY:O	1:F:26:SER:N	2.45	0.49
1:F:340:VAL:HA	1:F:343:THR:CG2	2.40	0.49
1:F:1009:MET:HE3	1:F:1009:MET:O	2.13	0.49
1:A:125:GLN:HG3	1:A:125:GLN:O	2.13	0.49
1:A:1026:ALA:C	1:A:1028:SER:H	2.20	0.49
1:B:1:MET:O	1:B:5:PHE:HD2	1.96	0.49
1:B:313:LEU:O	1:B:317:MET:HG3	2.13	0.49
1:C:1009:MET:CE	1:C:1012:ALA:HB3	2.43	0.49
1:D:7:ASP:OD2	1:D:432:ARG:NH1	2.45	0.49
1:D:754:GLY:HA2	1:F:217:GLY:HA2	1.93	0.49
1:E:169:THR:HB	1:E:172:VAL:CG2	2.42	0.49
1:E:727:LYS:HD2	1:E:809:GLU:OE2	2.13	0.49
1:E:910:GLY:CA	1:E:1011:THR:HG21	2.43	0.49
1:F:425:LEU:HB3	1:F:429:GLU:HB3	1.95	0.49
1:F:563:PHE:CE2	1:F:564:LEU:CD2	2.96	0.49
1:F:571:VAL:O	1:F:644:VAL:HG11	2.12	0.49
1:F:922:ASN:OD1	1:F:926:PHE:CD2	2.66	0.49
1:A:210:GLN:CD	1:A:249:ILE:HG23	2.36	0.49
1:A:422:GLU:HG3	1:A:423:GLU:HG3	1.94	0.49
1:B:314:GLU:CA	1:B:317:MET:HE2	2.40	0.49
1:B:706:ALA:O	1:B:709:ASN:HB3	2.12	0.49
1:B:722:ASP:OD1	1:B:812:SER:HA	2.13	0.49
1:B:887:LEU:HD21	1:B:942:ILE:HD11	1.95	0.49
1:B:1027:VAL:HA	1:B:1030:LEU:HD12	1.95	0.49
1:C:462:SER:OG	1:C:864:GLU:HG3	2.13	0.49
1:C:488:LEU:HD13	1:C:492:LEU:HD12	1.95	0.49
1:D:181:GLN:OE1	1:D:768:LYS:HE3	2.13	0.49
1:D:534:ILE:CD1	1:D:1018:PHE:HB3	2.43	0.49
1:D:709:ASN:ND2	1:D:846:ILE:HD11	2.28	0.49
1:D:754:GLY:O	1:D:755:SER:HB3	2.13	0.49
1:D:1020:VAL:N	1:D:1021:PRO:HD2	2.28	0.49
1:E:184:MET:HB2	1:E:761:PHE:CE1	2.47	0.49
1:E:412:VAL:O	1:E:416:VAL:HG23	2.12	0.49
1:E:650:ARG:NH1	1:E:650:ARG:CB	2.75	0.49
1:F:13:TRP:O	1:F:17:LEU:HG	2.13	0.49
1:C:376:LEU:CA	1:C:379:THR:HG22	2.43	0.48
1:D:157:TYR:C	1:D:161:ASN:HD22	2.18	0.48
1:D:598:LEU:HD21	1:D:629:ILE:CD1	2.43	0.48
1:E:369:THR:O	1:E:373:PRO:HG2	2.12	0.48
1:E:633:PRO:HB2	1:E:636:GLU:HB2	1.95	0.48
1:E:848:LYS:HB3	1:E:848:LYS:HZ2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:897:PRO:O	1:E:900:VAL:HG12	2.13	0.48
2:E:2001:LMT:H122	2:E:2002:LMT:C11	2.42	0.48
1:F:298:ASN:HD22	1:F:301:ASP:H	1.61	0.48
1:F:469:GLN:O	1:F:473:THR:HG22	2.12	0.48
1:F:817:ARG:HG2	1:F:817:ARG:HH11	1.78	0.48
1:A:474:ILE:O	1:A:478:MET:HG2	2.13	0.48
1:A:789:TYR:CZ	1:A:799:PRO:HB3	2.48	0.48
1:B:458:PHE:O	2:B:2003:LMT:H6E	2.12	0.48
1:B:754:GLY:O	1:B:755:SER:HB3	2.12	0.48
1:B:933:THR:HG23	1:B:1009:MET:CE	2.43	0.48
1:C:818:TYR:O	1:C:819:ASN:HB2	2.13	0.48
1:D:58:GLN:OE1	1:D:815:LEU:HB3	2.13	0.48
1:D:759:ASN:OD1	1:D:770:VAL:HG11	2.12	0.48
1:E:509:LYS:HG3	1:E:517:ASN:ND2	2.28	0.48
1:E:592:ASP:O	1:E:595:ARG:HB3	2.12	0.48
1:E:658:PHE:C	1:E:660:ASP:H	2.20	0.48
1:F:390:ILE:HG23	1:F:395:MET:HE3	1.94	0.48
1:F:396:PHE:CE2	1:F:1001:ILE:HG21	2.48	0.48
1:F:817:ARG:HG2	1:F:817:ARG:NH1	2.28	0.48
1:F:991:THR:HA	1:F:995:SER:OG	2.14	0.48
1:F:1024:TYR:O	1:F:1027:VAL:HG22	2.12	0.48
1:A:791:ARG:HE	1:A:797:MET:HE1	1.78	0.48
1:A:878:LEU:HD21	1:C:25:LEU:CD1	2.43	0.48
1:B:298:ASN:ND2	1:B:300:LEU:HB2	2.28	0.48
1:B:560:PRO:O	1:B:921:SER:HB2	2.13	0.48
1:B:598:LEU:HD21	1:B:655:PHE:HZ	1.79	0.48
1:C:54:ALA:O	1:C:82:SER:HB3	2.13	0.48
1:C:142:VAL:HG21	1:C:321:MET:CE	2.41	0.48
1:D:534:ILE:HG23	1:D:541:TYR:CG	2.49	0.48
1:E:684:LEU:O	1:E:823:ALA:HA	2.14	0.48
1:E:896:ILE:N	1:E:897:PRO:HD2	2.28	0.48
1:F:202:ASP:OD1	1:F:203:VAL:HG23	2.12	0.48
1:F:457:ALA:O	1:F:468:ARG:HD3	2.12	0.48
1:B:745:ILE:CD1	1:B:790:VAL:HG21	2.43	0.48
1:C:746:ASN:O	1:C:749:VAL:HG22	2.12	0.48
1:C:1023:PHE:O	1:C:1027:VAL:HG13	2.13	0.48
1:D:140:VAL:HB	1:D:289:ILE:CG1	2.42	0.48
1:D:230:LEU:HD23	1:E:781:ASN:OD1	2.14	0.48
1:D:549:VAL:O	1:D:553:ILE:HG13	2.13	0.48
1:D:683:PHE:HD2	1:D:823:ALA:HB1	1.78	0.48
1:E:350:LEU:HD22	1:E:982:LEU:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:891:TYR:CA	1:E:949:LYS:HE2	2.41	0.48
1:F:279:ALA:HB2	1:F:612:VAL:HG23	1.95	0.48
1:F:382:VAL:HG12	1:F:472:ILE:HD11	1.95	0.48
1:A:361:ASN:HB3	1:A:364:ALA:CB	2.44	0.48
1:B:261:ARG:HD3	1:B:261:ARG:N	2.27	0.48
1:B:488:LEU:O	1:B:491:ALA:N	2.46	0.48
1:B:699:ARG:HD2	1:B:717:PRO:HB3	1.96	0.48
1:C:146:ASP:OD1	1:C:148:SER:CB	2.62	0.48
1:C:153:ASP:HA	1:C:182:TYR:OH	2.13	0.48
1:D:416:VAL:O	1:D:419:VAL:HG22	2.14	0.48
1:D:559:ILE:HD11	1:D:920:LEU:O	2.13	0.48
1:D:671:VAL:CG1	1:D:674:LEU:HD21	2.44	0.48
1:D:943:LEU:HB3	1:D:969:ARG:NE	2.29	0.48
1:D:946:GLU:O	1:D:949:LYS:N	2.47	0.48
1:E:631:LEU:HD11	1:E:644:VAL:HG22	1.95	0.48
1:F:364:ALA:O	1:F:368:PRO:HD3	2.13	0.48
1:F:371:ALA:HA	1:F:374:VAL:HG13	1.96	0.48
1:F:643:SER:O	1:F:646:GLU:N	2.44	0.48
1:F:723:GLU:OE1	1:F:813:PRO:HB3	2.14	0.48
1:A:185:ARG:NE	1:A:771:TYR:HB2	2.28	0.48
1:A:261:ARG:NH2	1:B:733:GLU:OE2	2.45	0.48
1:A:438:ILE:CG1	1:A:439:GLN:N	2.77	0.48
1:A:512:PHE:N	1:A:512:PHE:CD1	2.82	0.48
1:A:584:ALA:CB	1:A:622:GLN:HB3	2.43	0.48
1:A:761:PHE:HD2	1:A:761:PHE:H	1.60	0.48
1:B:60:THR:HG23	1:B:119:PRO:CG	2.41	0.48
1:B:539:ALA:O	1:B:543:LEU:HB2	2.14	0.48
1:C:159:VAL:O	1:C:159:VAL:HG12	2.13	0.48
1:C:641:GLU:O	1:C:650:ARG:NH2	2.39	0.48
1:C:902:LEU:O	1:C:905:PRO:HD2	2.13	0.48
1:C:936:LEU:HB3	1:C:1009:MET:CE	2.43	0.48
1:D:10:ILE:O	1:D:14:VAL:HG23	2.13	0.48
1:D:125:GLN:NE2	1:D:769:ARG:NH1	2.61	0.48
1:E:463:THR:HG22	1:E:563:PHE:HE1	1.78	0.48
1:E:619:GLY:HA3	1:E:720:MET:SD	2.53	0.48
1:F:303:ALA:HB2	1:F:330:THR:OG1	2.14	0.48
1:F:446:ALA:HA	1:F:478:MET:CE	2.44	0.48
1:F:573:PHE:CE2	1:F:668:PRO:HD3	2.48	0.48
1:F:686:ASP:O	1:F:686:ASP:OD2	2.30	0.48
1:F:718:ASN:HB3	1:F:816:GLU:OE1	2.13	0.48
2:F:2001:LMT:H6E	2:F:2001:LMT:H1B	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:616:ASN:ND2	1:A:626:MET:HB3	2.28	0.48
1:A:889:ALA:HB2	1:C:14:VAL:HG21	1.95	0.48
1:A:940:ASN:ND2	1:A:973:ILE:HG23	2.28	0.48
1:B:571:VAL:HG12	1:B:572:LEU:N	2.29	0.48
1:C:76:ARG:HG2	1:C:77:TYR:CD2	2.49	0.48
1:C:166:LEU:O	1:C:172:VAL:HG11	2.14	0.48
1:D:35:TYR:CE1	1:D:392:THR:HG21	2.49	0.48
1:D:110:LYS:O	1:D:111:LEU:C	2.55	0.48
1:D:488:LEU:HD22	1:D:492:LEU:HD12	1.94	0.48
1:D:498:LYS:H	1:D:499:PRO:CD	2.26	0.48
1:E:261:ARG:HE	1:E:263:LYS:HE2	1.79	0.48
1:F:96:GLN:NE2	1:F:462:SER:HB2	2.28	0.48
1:F:314:GLU:C	1:F:316:PHE:H	2.22	0.48
1:F:332:VAL:HG11	1:F:569:GLN:HB3	1.95	0.48
1:F:792:ASN:ND2	1:F:796:GLU:HB2	2.29	0.48
1:F:904:VAL:HB	1:F:905:PRO:HD3	1.95	0.48
1:A:27:ILE:CD1	2:A:1101:LMT:H72	2.42	0.48
1:A:261:ARG:HH22	1:B:733:GLU:CD	2.21	0.48
1:A:443:VAL:O	1:A:447:MET:HG3	2.14	0.48
1:A:579:PRO:HG2	1:A:582:SER:HG	1.78	0.48
1:A:803:PHE:CD1	1:A:803:PHE:C	2.91	0.48
1:C:409:ALA:O	1:C:413:VAL:HG23	2.14	0.48
1:C:632:LYS:HB3	1:C:636:GLU:OE1	2.13	0.48
1:C:740:VAL:HG11	1:C:790:VAL:HG11	1.96	0.48
1:C:923:ASP:O	1:C:924:VAL:C	2.53	0.48
1:D:62:VAL:HG21	1:D:82:SER:OG	2.14	0.48
1:D:424:GLY:C	1:D:425:LEU:HD12	2.38	0.48
1:D:649:LYS:O	1:D:652:GLN:HB3	2.13	0.48
1:D:681:ASP:OD1	1:D:825:GLU:OE2	2.31	0.48
1:E:115:THR:HB	1:E:116:PRO:HD3	1.96	0.48
1:E:414:GLU:CG	1:E:972:PRO:HG3	2.43	0.48
1:E:460:GLY:N	1:E:871:GLN:HE22	2.11	0.48
1:E:765:GLY:O	1:E:766:ARG:C	2.56	0.48
1:F:8:ARG:HH11	1:F:8:ARG:HG2	1.78	0.48
1:F:421:ALA:O	1:F:423:GLU:N	2.47	0.48
1:F:630:MET:C	1:F:631:LEU:HD23	2.38	0.48
1:A:54:ALA:CB	1:A:815:LEU:HD23	2.44	0.48
1:A:62:VAL:O	1:A:62:VAL:HG12	2.13	0.48
1:A:142:VAL:CG2	1:A:154:LEU:HB3	2.43	0.48
1:A:372:VAL:HA	1:A:405:LEU:CD2	2.43	0.48
1:A:819:ASN:C	1:C:168:ARG:HH21	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:918:ARG:CZ	1:A:1003:THR:HG21	2.44	0.48
1:B:984:VAL:HG11	1:B:1005:VAL:CG2	2.44	0.48
1:C:142:VAL:HG13	1:C:154:LEU:HB3	1.96	0.48
1:C:532:ALA:O	1:C:536:LYS:HG3	2.13	0.48
1:C:943:LEU:HD12	1:C:943:LEU:HA	1.64	0.48
1:D:273:GLN:HG3	1:D:771:TYR:HE2	1.79	0.48
1:D:684:LEU:HD12	1:D:684:LEU:H	1.70	0.48
1:D:953:GLU:HG3	1:D:954:GLN:N	2.20	0.48
1:E:280:GLN:NE2	1:E:588:GLN:CD	2.72	0.48
1:E:538:ARG:C	1:E:540:PRO:HD2	2.39	0.48
1:E:602:GLU:OE2	1:E:650:ARG:NH1	2.45	0.48
1:E:783:ASP:C	1:E:785:LEU:H	2.21	0.48
2:E:2001:LMT:C12	2:E:2002:LMT:C12	2.92	0.48
1:F:434:SER:O	1:F:438:ILE:HG12	2.14	0.48
1:F:507:GLU:HB3	1:F:517:ASN:ND2	2.29	0.48
1:F:576:VAL:HG13	1:F:663:VAL:HG22	1.95	0.48
1:F:643:SER:O	1:F:645:PHE:N	2.47	0.48
1:A:193:LEU:HD21	1:A:199:THR:HA	1.95	0.48
1:A:222:LEU:CD2	1:B:622:GLN:OE1	2.61	0.48
1:A:910:GLY:HA3	1:A:1011:THR:HG21	1.96	0.48
1:B:278:ASN:O	1:B:612:VAL:HA	2.14	0.48
1:B:573:PHE:HD2	1:B:666:PHE:CE1	2.32	0.48
1:B:597:TYR:HD2	1:B:598:LEU:HD22	1.79	0.48
1:C:545:TYR:CD1	1:C:1023:PHE:HZ	2.32	0.48
1:C:554:TRP:CZ2	1:C:558:ARG:HD2	2.49	0.48
1:C:599:LEU:HD23	1:C:599:LEU:O	2.14	0.48
1:C:690:VAL:CG2	1:C:694:VAL:HG21	2.44	0.48
1:C:942:ILE:C	1:C:942:ILE:HD12	2.39	0.48
1:E:544:ILE:HD12	1:E:1019:TRP:CZ2	2.49	0.48
1:E:713:GLN:HE21	1:E:714:ARG:HE	1.62	0.48
1:F:635:GLU:O	1:F:637:ARG:N	2.46	0.48
1:F:733:GLU:HG3	1:F:734:LYS:H	1.77	0.48
1:A:936:LEU:C	1:A:936:LEU:HD13	2.38	0.47
1:B:311:ALA:HA	1:B:314:GLU:OE1	2.13	0.47
1:B:559:ILE:HD13	1:B:560:PRO:N	2.29	0.47
1:C:42:ALA:CB	1:C:132:ALA:HB3	2.44	0.47
1:C:658:PHE:CD1	1:C:659:LYS:HG3	2.49	0.47
1:C:1020:VAL:HB	1:C:1021:PRO:HD3	1.96	0.47
1:D:568:ASP:HB3	1:D:634:TRP:HZ3	1.74	0.47
1:D:575:GLN:HE21	1:D:616:ASN:ND2	2.12	0.47
1:D:586:ARG:HH11	1:D:586:ARG:HG3	1.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:462:SER:HB2	1:E:864:GLU:OE1	2.14	0.47
1:E:694:VAL:O	1:E:697:GLN:HB2	2.14	0.47
1:E:840:MET:HE3	1:E:862:SER:HB3	1.95	0.47
1:F:144:SER:HA	1:F:320:GLY:O	2.13	0.47
1:F:291:ILE:CD1	1:F:306:ILE:HG13	2.44	0.47
1:F:500:ILE:O	1:F:500:ILE:HG22	2.14	0.47
1:A:6:ILE:HD13	1:A:431:ALA:CB	2.44	0.47
1:A:39:ALA:HB3	1:A:673:GLU:CG	2.43	0.47
1:A:240:LEU:HB2	1:A:246:PHE:CZ	2.49	0.47
1:A:246:PHE:O	1:A:262:LEU:HD23	2.14	0.47
1:A:767:VAL:HG21	1:B:59:ASP:O	2.14	0.47
1:B:334:SER:C	1:B:336:SER:H	2.22	0.47
1:B:412:VAL:O	1:B:416:VAL:HG23	2.15	0.47
1:B:617:PHE:CD2	1:B:626:MET:HE1	2.48	0.47
1:B:686:ASP:CG	1:B:690:VAL:HG22	2.39	0.47
1:C:164:ASP:HB2	1:C:165:PRO:HD3	1.96	0.47
1:C:175:PHE:C	1:C:175:PHE:CD1	2.92	0.47
1:C:317:MET:CE	1:C:321:MET:HE2	2.44	0.47
1:C:500:ILE:O	1:C:501:GLU:O	2.33	0.47
1:D:33:ASN:ND2	1:D:35:TYR:O	2.47	0.47
1:D:324:VAL:HG22	1:D:325:TYR:H	1.79	0.47
1:E:149:MET:HE2	1:E:153:ASP:HB3	1.97	0.47
1:E:197:GLN:HA	1:E:797:MET:HG3	1.96	0.47
1:E:761:PHE:CE2	1:E:763:ASP:HB2	2.49	0.47
1:E:957:GLY:O	1:E:959:VAL:N	2.48	0.47
1:F:14:VAL:O	1:F:18:VAL:HG23	2.14	0.47
1:F:183:SER:HB3	1:F:185:ARG:HD3	1.96	0.47
1:A:235:ILE:HG13	1:A:235:ILE:O	2.13	0.47
1:A:718:ASN:HB3	1:A:825:GLU:HB3	1.95	0.47
1:A:1010:VAL:HG23	1:A:1011:THR:N	2.29	0.47
1:B:14:VAL:CG1	1:C:885:LEU:HB3	2.44	0.47
1:B:250:LEU:HD21	1:B:261:ARG:HG3	1.96	0.47
1:B:527:TYR:CZ	1:B:531:VAL:HG21	2.49	0.47
1:B:611:THR:HG22	1:B:627:ALA:HB2	1.95	0.47
1:C:303:ALA:O	1:C:307:ARG:HG3	2.14	0.47
1:C:357:LEU:C	1:C:357:LEU:CD2	2.86	0.47
1:D:405:LEU:HD12	1:D:405:LEU:O	2.14	0.47
1:E:144:SER:O	1:E:284:SER:HB3	2.14	0.47
1:E:353:LEU:C	1:E:355:MET:N	2.70	0.47
1:E:748:THR:O	1:E:752:ALA:HB3	2.14	0.47
1:F:446:ALA:HA	1:F:478:MET:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:600:GLU:C	1:F:602:GLU:H	2.22	0.47
1:F:721:SER:O	1:F:813:PRO:HD2	2.15	0.47
1:F:840:MET:SD	1:F:865:GLU:HG2	2.55	0.47
1:F:888:ALA:O	1:F:892:GLU:N	2.47	0.47
1:A:228:GLN:CD	1:B:780:MET:HE3	2.38	0.47
1:A:362:PHE:CD1	1:A:362:PHE:N	2.81	0.47
1:A:452:VAL:HG22	1:A:883:VAL:HG21	1.97	0.47
1:A:587:THR:O	1:A:589:VAL:N	2.48	0.47
1:A:655:PHE:C	1:A:657:SER:N	2.71	0.47
1:A:965:ALA:O	1:A:969:ARG:HG2	2.14	0.47
1:B:151:LYS:NZ	2:B:2001:LMT:H21	2.30	0.47
1:B:386:PHE:HZ	2:B:2003:LMT:H81	1.78	0.47
1:B:571:VAL:O	1:B:644:VAL:HG11	2.13	0.47
1:B:763:ASP:O	1:B:764:ARG:C	2.57	0.47
1:C:326:PRO:HB2	1:C:610:PHE:HB2	1.96	0.47
1:C:393:LEU:CD1	1:C:466:ILE:HB	2.44	0.47
1:C:537:HIS:O	1:C:541:TYR:HD2	1.98	0.47
1:C:914:ALA:O	1:C:917:MET:N	2.47	0.47
1:C:959:VAL:O	1:C:963:ILE:HG12	2.14	0.47
1:C:1024:TYR:O	1:C:1025:VAL:C	2.57	0.47
1:D:472:ILE:O	1:D:476:SER:CB	2.62	0.47
1:D:616:ASN:O	1:D:618:ALA:N	2.47	0.47
1:E:15:ILE:O	1:E:19:ILE:HD13	2.14	0.47
1:E:445:ILE:HG22	1:E:942:ILE:HD12	1.95	0.47
1:E:535:LEU:HD22	1:E:1025:VAL:CG2	2.43	0.47
1:E:558:ARG:HB3	1:E:558:ARG:HH11	1.77	0.47
1:F:156:ASN:HD21	1:F:768:LYS:HE2	1.78	0.47
1:F:463:THR:HG23	1:F:924:VAL:CG1	2.44	0.47
1:F:690:VAL:HG13	1:F:690:VAL:O	2.15	0.47
1:F:692:HIS:NE2	1:F:815:LEU:HD22	2.30	0.47
1:A:190:PRO:HB3	1:A:788:TRP:CD2	2.49	0.47
1:A:228:GLN:HG2	1:B:780:MET:CE	2.44	0.47
1:A:634:TRP:CE2	1:A:993:ALA:HB2	2.49	0.47
1:A:715:VAL:HG13	1:A:715:VAL:O	2.14	0.47
1:A:830:PRO:CG	1:A:836:SER:HA	2.44	0.47
1:A:893:SER:OG	1:A:894:TRP:N	2.48	0.47
1:B:527:TYR:O	1:B:528:GLU:C	2.54	0.47
1:B:709:ASN:C	1:B:711:ALA:H	2.23	0.47
1:C:335:ALA:O	1:C:339:GLU:HG2	2.15	0.47
1:C:344:LEU:C	1:C:344:LEU:HD13	2.40	0.47
1:C:359:LEU:HD21	1:C:413:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:62:VAL:HA	1:D:90:ILE:HD11	1.96	0.47
1:E:47:VAL:HG22	1:E:127:ILE:CG2	2.39	0.47
1:E:108:GLN:HE21	1:E:129:VAL:HG11	1.80	0.47
1:E:326:PRO:HB2	1:E:630:MET:HE2	1.95	0.47
1:E:529:ARG:O	1:E:532:ALA:HB3	2.13	0.47
1:F:461:GLY:HA2	1:F:867:LEU:HD11	1.97	0.47
1:F:986:PRO:O	1:F:990:SER:HB3	2.15	0.47
1:A:891:TYR:O	1:A:892:GLU:C	2.56	0.47
1:B:151:LYS:HD2	1:B:279:ALA:H	1.78	0.47
1:B:395:MET:O	1:B:396:PHE:C	2.57	0.47
1:C:47:VAL:CG2	1:C:127:ILE:HG13	2.43	0.47
1:C:357:LEU:O	1:C:360:GLN:OE1	2.32	0.47
1:C:752:ALA:HB3	1:C:753:TRP:CE3	2.50	0.47
1:C:880:LEU:CD1	1:C:934:ILE:HG13	2.44	0.47
1:D:5:PHE:CD2	1:D:487:ILE:HG23	2.50	0.47
1:D:124:ARG:NH2	1:D:757:TYR:O	2.47	0.47
1:D:672:LEU:O	1:D:673:GLU:C	2.58	0.47
1:D:847:VAL:HG21	1:D:856:TYR:CE2	2.50	0.47
1:F:201:GLY:O	1:F:202:ASP:C	2.57	0.47
1:F:887:LEU:CD1	1:F:900:VAL:HG11	2.44	0.47
1:F:887:LEU:HD13	1:F:900:VAL:HG11	1.97	0.47
1:F:936:LEU:HD13	1:F:1009:MET:SD	2.54	0.47
1:F:947:PHE:O	1:F:950:GLU:HB2	2.15	0.47
1:A:9:PRO:CD	1:B:892:GLU:OE2	2.59	0.47
1:A:150:THR:HG22	1:A:153:ASP:CG	2.39	0.47
1:A:157:TYR:CE2	1:A:317:MET:HE2	2.49	0.47
1:A:562:ALA:O	1:A:923:ASP:HA	2.14	0.47
1:A:705:LEU:HB3	1:A:846:ILE:HG23	1.97	0.47
1:B:129:VAL:C	1:B:130:THR:HG23	2.40	0.47
1:B:348:ILE:HD11	1:B:369:THR:HG23	1.96	0.47
1:B:555:MET:HE2	1:B:913:LEU:HD12	1.97	0.47
1:B:573:PHE:CE2	1:B:668:PRO:HB3	2.49	0.47
1:B:890:LEU:HD12	1:B:890:LEU:O	2.14	0.47
1:B:896:ILE:N	1:B:897:PRO:CD	2.78	0.47
1:B:959:VAL:O	1:B:963:ILE:HG13	2.14	0.47
1:C:207:ILE:HG22	1:C:759:ASN:HD21	1.80	0.47
1:C:262:LEU:HA	1:C:265:VAL:HG22	1.97	0.47
1:C:428:ARG:HG2	1:C:428:ARG:HH11	1.80	0.47
1:C:500:ILE:O	1:C:500:ILE:HG23	2.13	0.47
1:C:701:LYS:HE2	1:C:705:LEU:HD11	1.96	0.47
1:C:804:ALA:O	1:C:805:THR:HB	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:977:SER:HB3	1:C:1013:THR:OG1	2.15	0.47
1:C:1020:VAL:N	1:C:1021:PRO:CD	2.77	0.47
1:D:78:ILE:HD11	1:D:90:ILE:CG2	2.44	0.47
1:D:193:LEU:HD21	1:D:200:PRO:HD3	1.97	0.47
1:D:749:VAL:O	1:D:753:TRP:HB2	2.15	0.47
1:E:261:ARG:HB3	1:E:263:LYS:HG2	1.97	0.47
1:E:483:ILE:HG22	1:E:487:ILE:HD12	1.97	0.47
1:E:556:PHE:C	1:E:558:ARG:H	2.23	0.47
1:E:725:GLN:HG2	1:E:809:GLU:O	2.15	0.47
1:E:969:ARG:HH11	1:E:969:ARG:CG	2.27	0.47
1:F:159:VAL:O	1:F:159:VAL:CG1	2.61	0.47
1:F:360:GLN:O	1:F:361:ASN:HB2	2.15	0.47
1:F:573:PHE:CD2	1:F:668:PRO:HD3	2.50	0.47
1:F:669:PRO:HD2	1:F:675:GLY:O	2.15	0.47
1:F:858:TRP:HE1	1:F:866:ARG:HH21	1.61	0.47
1:F:941:ALA:HA	1:F:1020:VAL:HG21	1.97	0.47
1:A:861:LEU:N	1:A:861:LEU:HD23	2.29	0.47
1:B:715:VAL:O	1:B:715:VAL:HG12	2.14	0.47
1:B:829:GLU:CB	1:B:830:PRO:HD2	2.33	0.47
1:C:359:LEU:HD12	1:C:365:THR:HA	1.95	0.47
1:C:588:GLN:HG2	1:C:613:THR:HG21	1.97	0.47
1:D:218:GLN:HA	1:D:234:ILE:H	1.79	0.47
1:D:449:LEU:CD1	1:D:478:MET:HG3	2.45	0.47
1:D:631:LEU:HD23	1:D:637:ARG:CZ	2.45	0.47
1:D:749:VAL:HG22	1:D:753:TRP:CZ3	2.41	0.47
1:D:994:GLY:O	1:D:996:GLY:N	2.48	0.47
1:E:3:LYS:HG2	1:E:432:ARG:HB3	1.97	0.47
1:E:552:MET:HA	1:E:909:ILE:CD1	2.45	0.47
1:E:555:MET:HE3	1:E:913:LEU:CD1	2.45	0.47
1:E:834:LEU:HD12	1:E:834:LEU:N	2.29	0.47
1:E:859:THR:O	1:E:860:GLY:C	2.56	0.47
1:E:1013:THR:HG22	1:E:1013:THR:O	2.15	0.47
1:F:319:GLN:HG3	1:F:320:GLY:N	2.30	0.47
1:F:501:GLU:O	1:F:502:LYS:O	2.33	0.47
1:F:516:PHE:HA	1:F:519:MET:HG3	1.95	0.47
1:F:592:ASP:O	1:F:595:ARG:HG3	2.15	0.47
1:A:185:ARG:HH12	1:A:275:TYR:HE2	1.58	0.47
1:A:583:SER:HB3	1:C:229:GLN:HA	1.96	0.47
1:A:587:THR:C	1:A:589:VAL:N	2.73	0.47
1:A:1001:ILE:HG23	1:A:1002:GLY:N	2.30	0.47
1:B:141:GLY:HA2	1:B:288:GLY:HA3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:311:ALA:C	1:B:313:LEU:H	2.23	0.47
1:B:443:VAL:O	1:B:447:MET:HG2	2.15	0.47
1:B:803:PHE:CD1	1:B:803:PHE:C	2.93	0.47
1:B:984:VAL:CG1	1:B:1006:ILE:HD11	2.45	0.47
1:C:142:VAL:CG2	1:C:154:LEU:HD22	2.45	0.47
1:C:314:GLU:N	1:C:315:PRO:CD	2.77	0.47
1:C:399:VAL:C	1:C:401:ALA:H	2.23	0.47
1:C:466:ILE:C	1:C:466:ILE:HD12	2.40	0.47
1:C:573:PHE:HB2	1:C:666:PHE:CE1	2.50	0.47
1:C:727:LYS:HD2	1:C:809:GLU:CD	2.40	0.47
1:C:870:SER:O	1:C:873:PRO:HD2	2.14	0.47
1:D:219:LEU:HD12	1:D:234:ILE:HG12	1.96	0.47
1:D:310:ILE:C	1:D:312:ASN:N	2.71	0.47
1:D:470:PHE:CE2	1:D:474:ILE:HG13	2.50	0.47
1:D:472:ILE:HD13	1:D:472:ILE:N	2.30	0.47
1:D:686:ASP:CG	1:D:690:VAL:HG22	2.39	0.47
1:E:431:ALA:HB2	1:E:494:ALA:HB2	1.97	0.47
1:E:713:GLN:O	1:E:714:ARG:C	2.57	0.47
1:E:726:TYR:CZ	1:E:806:GLY:HA3	2.50	0.47
1:F:332:VAL:HA	1:F:634:TRP:HH2	1.78	0.47
1:A:229:GLN:NE2	1:B:586:ARG:HD2	2.30	0.47
1:A:449:LEU:C	1:A:449:LEU:CD1	2.88	0.47
1:A:463:THR:HG21	1:A:869:GLY:C	2.40	0.47
1:A:592:ASP:O	1:A:596:GLU:HG3	2.15	0.47
1:A:847:VAL:HA	1:A:850:LEU:CD1	2.45	0.47
1:A:847:VAL:HA	1:A:850:LEU:HD12	1.97	0.47
1:A:974:VAL:HG13	1:A:978:LEU:HD13	1.97	0.47
1:B:30:LEU:HD23	1:B:390:ILE:CD1	2.44	0.47
1:B:133:VAL:HG21	1:B:135:ASN:ND2	2.30	0.47
1:B:367:ILE:H	1:B:367:ILE:CD1	2.28	0.47
1:B:745:ILE:HG23	1:B:800:PHE:CE1	2.50	0.47
1:C:401:ALA:O	1:C:405:LEU:CD2	2.55	0.47
1:C:609:VAL:HG13	1:C:629:ILE:HD13	1.96	0.47
1:C:706:ALA:HB1	1:C:715:VAL:HG21	1.97	0.47
1:C:727:LYS:HE3	1:C:729:GLU:CG	2.44	0.47
1:C:969:ARG:C	1:C:972:PRO:HD2	2.39	0.47
1:D:655:PHE:HE1	1:D:658:PHE:HB3	1.77	0.47
1:D:685:GLN:HG3	1:D:687:GLN:NE2	2.29	0.47
1:D:761:PHE:CE1	1:D:763:ASP:HB2	2.50	0.47
1:D:791:ARG:HA	1:D:797:MET:HA	1.97	0.47
1:D:954:GLN:HG2	1:D:955:GLY:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:154:LEU:O	1:E:158:ILE:HG12	2.15	0.47
1:E:327:TYR:HB2	1:E:630:MET:CE	2.45	0.47
1:E:426:SER:HB2	1:E:427:PRO:HD2	1.97	0.47
1:E:732:ASP:CG	1:E:733:GLU:N	2.73	0.47
1:E:878:LEU:O	1:E:882:VAL:HG23	2.15	0.47
1:F:49:TYR:HB3	1:F:52:ALA:HB3	1.96	0.47
1:F:281:PHE:O	1:F:282:ASN:HB2	2.15	0.47
1:F:499:PRO:O	1:F:500:ILE:HD13	2.15	0.47
1:F:698:ALA:O	1:F:702:PHE:HB2	2.15	0.47
1:F:904:VAL:O	1:F:907:GLY:N	2.47	0.47
1:A:82:SER:O	1:A:814:LYS:HA	2.15	0.46
1:A:363:ARG:O	1:A:367:ILE:HG13	2.14	0.46
1:A:438:ILE:O	1:A:439:GLN:C	2.58	0.46
1:A:445:ILE:HD12	1:A:445:ILE:C	2.39	0.46
1:A:449:LEU:CD1	1:A:478:MET:HE2	2.45	0.46
1:B:178:PHE:HB3	2:B:2001:LMT:C4	2.45	0.46
1:B:344:LEU:O	1:B:348:ILE:HG22	2.15	0.46
1:B:544:ILE:HG21	1:B:1019:TRP:HZ2	1.80	0.46
1:C:80:SER:HA	1:C:89:THR:O	2.15	0.46
1:C:184:MET:HE1	1:C:269:GLY:C	2.40	0.46
1:C:246:PHE:CB	1:C:268:VAL:HG11	2.45	0.46
1:C:329:THR:C	1:C:331:PRO:HD2	2.40	0.46
1:C:755:SER:HB3	1:C:773:GLN:HB2	1.98	0.46
1:C:923:ASP:O	1:C:926:PHE:N	2.48	0.46
1:D:64:VAL:HG21	1:D:118:LEU:HD11	1.96	0.46
1:D:227:GLY:O	1:D:228:GLN:C	2.58	0.46
1:D:730:ILE:HA	1:D:804:ALA:HB2	1.97	0.46
1:E:969:ARG:HG3	1:E:969:ARG:HH11	1.80	0.46
1:F:605:SER:OG	1:F:647:LEU:HD13	2.15	0.46
1:F:644:VAL:HA	1:F:647:LEU:HB3	1.97	0.46
1:F:646:GLU:O	1:F:649:LYS:N	2.48	0.46
1:F:725:GLN:H	1:F:810:TYR:HA	1.80	0.46
1:F:784:ASP:HA	1:F:787:LYS:HD3	1.96	0.46
1:F:977:SER:OG	1:F:1009:MET:HE2	2.15	0.46
1:A:132:ALA:HB2	1:A:173:GLY:HA3	1.96	0.46
1:A:142:VAL:O	1:A:154:LEU:HD13	2.16	0.46
1:A:684:LEU:O	1:A:823:ALA:HA	2.16	0.46
1:A:685:GLN:HB3	1:A:821:VAL:HG11	1.96	0.46
1:A:974:VAL:O	1:A:977:SER:N	2.48	0.46
1:B:157:TYR:OH	1:B:317:MET:HA	2.15	0.46
1:B:338:HIS:C	1:B:340:VAL:N	2.74	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:140:VAL:HG21	1:D:310:ILE:HD11	1.96	0.46
1:D:254:ASN:CG	1:D:254:ASN:O	2.58	0.46
1:D:606:VAL:CG1	1:D:607:SER:N	2.78	0.46
1:D:953:GLU:CG	1:D:954:GLN:N	2.72	0.46
1:E:405:LEU:HD22	1:E:481:SER:OG	2.14	0.46
1:F:727:LYS:HD3	1:F:807:LYS:HE2	1.97	0.46
1:F:851:PRO:HB2	1:F:854:VAL:HG23	1.96	0.46
1:F:945:VAL:HG23	1:F:1020:VAL:CG1	2.44	0.46
1:A:13:TRP:NE1	2:A:1102:LMT:O2'	2.39	0.46
1:A:163:GLN:O	1:A:164:ASP:C	2.57	0.46
1:A:213:GLN:HG3	1:B:56:THR:HG22	1.98	0.46
1:B:568:ASP:OD2	1:B:568:ASP:C	2.58	0.46
1:B:846:ILE:O	1:B:848:LYS:N	2.48	0.46
1:C:982:LEU:HA	1:C:985:VAL:HG23	1.97	0.46
1:D:842:ALA:O	1:D:846:ILE:HG13	2.15	0.46
1:D:843:VAL:C	1:D:845:GLU:H	2.23	0.46
1:E:47:VAL:HG23	1:E:88:MET:SD	2.56	0.46
1:E:625:GLY:O	1:E:626:MET:HB3	2.16	0.46
1:F:216:SER:HB2	1:F:234:ILE:O	2.16	0.46
1:F:449:LEU:O	1:F:453:PHE:HD2	1.98	0.46
1:F:682:LEU:O	1:F:825:GLU:HG3	2.16	0.46
1:F:874:ALA:O	1:F:875:LEU:C	2.56	0.46
1:A:228:GLN:HB2	1:B:780:MET:CE	2.45	0.46
1:A:242:THR:OG1	1:A:244:GLU:HG2	2.15	0.46
1:A:895:SER:O	1:A:896:ILE:C	2.58	0.46
1:B:159:VAL:HA	1:B:163:GLN:HB2	1.97	0.46
1:B:178:PHE:CZ	2:B:2001:LMT:H81	2.51	0.46
1:B:539:ALA:O	1:B:540:PRO:C	2.59	0.46
1:C:30:LEU:HD11	1:C:384:ALA:CB	2.44	0.46
1:C:184:MET:HE1	1:C:269:GLY:CA	2.45	0.46
1:C:698:ALA:O	1:C:702:PHE:HB2	2.15	0.46
1:C:969:ARG:O	1:C:973:ILE:HG13	2.15	0.46
1:C:1014:VAL:HG23	1:C:1015:LEU:HD22	1.96	0.46
1:D:742:LEU:H	1:D:742:LEU:CD1	2.22	0.46
1:E:16:ALA:O	1:E:20:MET:HG3	2.15	0.46
1:E:185:ARG:HD3	1:E:771:TYR:HB2	1.97	0.46
1:E:249:ILE:C	1:E:249:ILE:HD12	2.41	0.46
1:E:353:LEU:C	1:E:355:MET:H	2.24	0.46
1:E:680:PHE:CE1	1:E:828:GLY:HA3	2.50	0.46
1:E:703:LEU:HD22	1:E:715:VAL:O	2.14	0.46
1:F:121:GLU:O	1:F:124:ARG:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:433:LYS:NZ	1:F:437:GLN:NE2	2.64	0.46
1:F:479:ALA:O	1:F:480:LEU:C	2.58	0.46
1:F:908:VAL:O	1:F:911:ALA:N	2.49	0.46
1:F:912:LEU:CD2	1:F:926:PHE:HZ	2.27	0.46
1:A:60:THR:OG1	1:A:61:VAL:HG23	2.16	0.46
1:A:225:VAL:HG22	1:B:780:MET:HE2	1.98	0.46
1:A:428:ARG:O	1:A:432:ARG:HG3	2.16	0.46
1:A:647:LEU:HD23	1:A:647:LEU:C	2.41	0.46
1:A:780:MET:HE3	1:C:228:GLN:CD	2.41	0.46
1:B:157:TYR:O	1:B:158:ILE:C	2.58	0.46
1:B:415:ASN:O	1:B:419:VAL:HG23	2.16	0.46
1:C:211:ASN:HB2	1:C:240:LEU:HD22	1.97	0.46
1:C:390:ILE:HG23	1:C:395:MET:HE3	1.97	0.46
1:C:449:LEU:HD12	1:C:478:MET:HE2	1.98	0.46
1:C:456:MET:HB2	1:C:467:TYR:HB3	1.98	0.46
1:C:910:GLY:HA3	1:C:1011:THR:OG1	2.16	0.46
1:D:32:VAL:CG2	1:D:337:ILE:HD13	2.42	0.46
1:D:251:LEU:HB2	1:D:260:VAL:O	2.16	0.46
1:D:360:GLN:O	1:D:361:ASN:HB2	2.15	0.46
1:D:544:ILE:O	1:D:548:ILE:HG13	2.16	0.46
1:D:572:LEU:HG	1:D:629:ILE:HD12	1.97	0.46
2:D:2002:LMT:O5B	2:D:2002:LMT:O3'	2.20	0.46
1:E:72:ILE:HD11	1:E:75:LEU:HD12	1.96	0.46
1:E:799:PRO:HB2	1:E:801:ASN:ND2	2.30	0.46
1:F:475:VAL:HG23	1:F:476:SER:N	2.31	0.46
1:F:831:ALA:HB3	1:F:834:LEU:HD12	1.96	0.46
1:A:641:GLU:HG3	1:A:650:ARG:NH1	2.30	0.46
1:A:649:LYS:NZ	1:A:652:GLN:HE21	2.14	0.46
1:A:685:GLN:O	1:A:854:VAL:HG13	2.15	0.46
1:A:750:SER:HA	1:C:215:SER:O	2.16	0.46
1:A:821:VAL:O	1:A:822:PRO:C	2.58	0.46
1:A:951:LEU:C	1:A:953:GLU:H	2.24	0.46
1:B:958:ILE:CG2	1:B:1025:VAL:HG22	2.37	0.46
1:C:371:ALA:HA	1:C:374:VAL:CG1	2.45	0.46
1:D:61:VAL:O	1:D:64:VAL:HG22	2.16	0.46
1:D:751:ILE:O	1:D:751:ILE:HG22	2.16	0.46
1:D:1009:MET:O	1:D:1013:THR:HG23	2.16	0.46
1:E:762:ILE:HD13	1:E:767:VAL:HG12	1.97	0.46
1:F:99:ASP:HB3	1:F:102:ILE:CD1	2.45	0.46
1:F:298:ASN:HB3	1:F:301:ASP:HB2	1.97	0.46
1:F:913:LEU:O	1:F:914:ALA:C	2.57	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1013:THR:O	1:F:1017:ILE:HG12	2.16	0.46
1:B:43:ILE:O	1:B:91:THR:HA	2.15	0.46
1:B:57:VAL:O	1:B:61:VAL:HB	2.16	0.46
1:B:227:GLY:O	1:B:228:GLN:HB3	2.16	0.46
1:B:455:PRO:HG3	2:B:2004:LMT:H51	1.97	0.46
1:C:144:SER:HA	1:C:320:GLY:O	2.16	0.46
1:C:713:GLN:NE2	1:C:714:ARG:HE	2.07	0.46
1:C:946:GLU:O	1:C:950:GLU:HG3	2.15	0.46
1:D:851:PRO:O	1:D:852:LYS:C	2.58	0.46
1:E:133:VAL:HG22	1:E:135:ASN:OD1	2.16	0.46
1:E:203:VAL:O	1:E:207:ILE:HG12	2.15	0.46
1:E:235:ILE:HD12	1:F:53:SER:HB3	1.98	0.46
1:E:763:ASP:C	1:E:763:ASP:OD2	2.59	0.46
1:E:781:ASN:O	1:E:782:PRO:C	2.58	0.46
1:E:913:LEU:O	1:E:914:ALA:C	2.58	0.46
1:F:533:SER:O	1:F:536:LYS:N	2.49	0.46
1:A:1016:ALA:HB1	1:A:1020:VAL:CG2	2.45	0.46
1:B:178:PHE:CE2	2:B:2001:LMT:H81	2.51	0.46
1:B:336:SER:O	1:B:340:VAL:CG2	2.62	0.46
1:C:1:MET:CA	2:C:2002:LMT:H6D	2.45	0.46
1:C:45:VAL:HG12	1:C:127:ILE:HG21	1.97	0.46
1:C:896:ILE:O	1:C:897:PRO:C	2.56	0.46
2:C:2001:LMT:O3'	2:C:2001:LMT:H2B	2.16	0.46
1:D:371:ALA:O	1:D:372:VAL:C	2.58	0.46
1:D:423:GLU:C	1:D:425:LEU:HD12	2.41	0.46
1:E:14:VAL:O	1:E:17:LEU:N	2.49	0.46
1:E:488:LEU:O	1:E:491:ALA:HB3	2.16	0.46
1:F:306:ILE:HD13	1:F:306:ILE:C	2.41	0.46
1:F:531:VAL:O	1:F:535:LEU:HG	2.16	0.46
1:F:595:ARG:HG3	1:F:596:GLU:N	2.31	0.46
1:A:53:SER:O	1:A:54:ALA:C	2.58	0.46
1:A:157:TYR:HE2	1:A:317:MET:HE2	1.80	0.46
1:A:242:THR:OG1	1:A:245:GLN:HG3	2.16	0.46
1:A:279:ALA:HB1	1:A:611:THR:O	2.16	0.46
1:A:347:ALA:HA	1:A:350:LEU:HB2	1.97	0.46
1:A:354:VAL:HG21	1:A:979:ALA:HA	1.97	0.46
1:B:563:PHE:CD2	1:B:564:LEU:HG	2.51	0.46
1:C:537:HIS:O	1:C:541:TYR:CD2	2.69	0.46
1:C:847:VAL:HA	1:C:850:LEU:HD13	1.97	0.46
1:C:1016:ALA:O	1:C:1018:PHE:N	2.48	0.46
1:D:21:LEU:C	1:D:21:LEU:HD13	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:133:VAL:CG1	1:D:135:ASN:OD1	2.64	0.46
1:D:219:LEU:C	1:D:221:GLY:H	2.24	0.46
1:D:391:ASN:ND2	1:D:469:GLN:OE1	2.49	0.46
1:E:555:MET:CG	1:E:912:LEU:HB3	2.46	0.46
1:F:61:VAL:HG21	1:F:122:VAL:HG21	1.97	0.46
1:F:330:THR:HB	1:F:331:PRO:HD3	1.98	0.46
1:F:763:ASP:OD2	1:F:763:ASP:C	2.59	0.46
1:F:859:THR:HA	1:F:863:TYR:HB2	1.96	0.46
1:F:884:PHE:CE1	1:F:897:PRO:HB2	2.50	0.46
1:A:8:ARG:HB3	1:A:11:PHE:HB2	1.97	0.46
1:A:10:ILE:O	1:A:14:VAL:HG23	2.15	0.46
1:A:410:ILE:CA	1:A:413:VAL:HG12	2.43	0.46
1:A:456:MET:HE1	1:A:928:VAL:HA	1.98	0.46
1:A:655:PHE:O	1:A:658:PHE:HB2	2.16	0.46
1:A:725:GLN:O	1:A:808:TRP:CE3	2.69	0.46
1:A:772:LEU:O	1:A:773:GLN:HB2	2.15	0.46
1:A:780:MET:CE	1:C:228:GLN:HB2	2.46	0.46
1:B:134:LYS:NZ	1:B:673:GLU:HA	2.31	0.46
1:B:407:ASP:O	1:B:411:VAL:CG1	2.63	0.46
1:C:927:GLN:HE21	1:C:927:GLN:HB2	1.58	0.46
1:D:410:ILE:O	1:D:414:GLU:HB2	2.16	0.46
1:D:467:TYR:O	1:D:470:PHE:N	2.46	0.46
1:D:468:ARG:O	1:D:472:ILE:HD12	2.16	0.46
1:D:726:TYR:CZ	1:D:806:GLY:HA3	2.50	0.46
1:E:10:ILE:O	1:E:14:VAL:HG23	2.16	0.46
1:E:19:ILE:HG23	1:E:378:GLY:HA3	1.98	0.46
1:E:138:MET:HE3	1:E:306:ILE:CD1	2.45	0.46
1:E:414:GLU:CD	1:E:972:PRO:HG3	2.41	0.46
1:E:655:PHE:HB3	1:E:663:VAL:O	2.15	0.46
1:F:154:LEU:HD23	1:F:321:MET:HE3	1.96	0.46
1:F:293:LEU:CD2	1:F:297:ALA:HB3	2.45	0.46
1:F:542:LEU:HG	1:F:1022:LEU:HD11	1.98	0.46
1:F:698:ALA:HB1	1:F:850:LEU:HD23	1.98	0.46
1:A:293:LEU:HD12	1:A:294:ALA:H	1.81	0.45
1:A:835:SER:HB3	1:A:838:ASP:CG	2.41	0.45
1:A:944:ILE:HD13	1:A:969:ARG:HG3	1.98	0.45
1:B:198:LEU:CD2	1:B:252:LYS:HD2	2.42	0.45
1:C:159:VAL:HG13	1:C:163:GLN:NE2	2.31	0.45
1:C:291:ILE:O	1:C:291:ILE:CG1	2.62	0.45
1:C:914:ALA:HA	1:C:917:MET:HG2	1.97	0.45
1:C:925:PHE:CZ	1:C:997:SER:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:139:VAL:HG22	1:D:327:TYR:N	2.31	0.45
1:D:197:GLN:HB2	1:D:252:LYS:HZ2	1.80	0.45
1:D:519:MET:O	1:D:523:THR:N	2.38	0.45
1:D:900:VAL:HG23	1:D:941:ALA:HB3	1.98	0.45
1:E:136:PHE:CD1	1:E:290:ALA:HB1	2.51	0.45
1:E:442:LEU:O	1:E:445:ILE:HG12	2.16	0.45
1:E:740:VAL:CG2	1:E:745:ILE:HD11	2.45	0.45
1:F:21:LEU:HG	1:F:25:LEU:HD12	1.97	0.45
1:F:516:PHE:HA	1:F:519:MET:CG	2.46	0.45
1:F:518:ARG:HA	1:F:521:LEU:CB	2.42	0.45
1:F:900:VAL:O	1:F:901:MET:C	2.57	0.45
1:F:913:LEU:O	1:F:916:SER:N	2.49	0.45
1:A:649:LYS:HD2	1:A:649:LYS:N	2.31	0.45
1:B:440:GLY:HA3	2:B:2002:LMT:H2'	1.98	0.45
1:B:703:LEU:C	1:B:704:MET:HE2	2.41	0.45
1:B:984:VAL:CG1	1:B:1002:GLY:HA2	2.46	0.45
1:C:56:THR:C	1:C:58:GLN:N	2.74	0.45
1:C:773:GLN:HG2	1:C:779:ARG:NH1	2.31	0.45
1:C:927:GLN:O	1:C:928:VAL:C	2.58	0.45
1:D:120:GLN:O	1:D:124:ARG:HG3	2.16	0.45
1:D:152:GLU:H	1:D:152:GLU:CD	2.25	0.45
1:D:461:GLY:O	1:D:465:VAL:HG23	2.15	0.45
1:D:545:TYR:OH	1:D:902:LEU:HD22	2.16	0.45
1:D:575:GLN:NE2	1:D:616:ASN:ND2	2.64	0.45
1:D:587:THR:C	1:D:589:VAL:N	2.72	0.45
1:D:614:GLY:HA2	1:D:621:GLY:O	2.16	0.45
1:D:753:TRP:HZ2	1:D:785:LEU:HA	1.81	0.45
1:E:252:LYS:HG2	1:E:260:VAL:HB	1.98	0.45
1:E:447:MET:HE1	2:E:2001:LMT:H123	1.95	0.45
1:E:1011:THR:O	1:E:1015:LEU:HB2	2.15	0.45
1:F:545:TYR:CE1	1:F:1023:PHE:HZ	2.34	0.45
1:F:548:ILE:O	1:F:549:VAL:C	2.60	0.45
1:F:595:ARG:O	1:F:599:LEU:HB2	2.17	0.45
1:A:5:PHE:O	1:A:8:ARG:C	2.59	0.45
1:A:80:SER:HA	1:A:89:THR:O	2.16	0.45
1:A:105:VAL:O	1:A:109:ASN:HB2	2.16	0.45
1:A:527:TYR:O	1:A:531:VAL:HG23	2.16	0.45
1:A:676:ASN:O	1:A:677:ALA:HB2	2.15	0.45
1:B:34:GLN:HG2	1:B:35:TYR:CD2	2.51	0.45
1:B:345:GLY:O	1:B:348:ILE:HG23	2.17	0.45
1:B:435:MET:O	1:B:439:GLN:CB	2.62	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:517:ASN:O	1:B:521:LEU:HB2	2.16	0.45
1:C:337:ILE:O	1:C:341:VAL:HG23	2.15	0.45
1:D:5:PHE:CE2	1:D:487:ILE:HD13	2.51	0.45
1:D:100:PRO:O	1:D:103:ALA:HB3	2.17	0.45
1:D:188:LEU:HD11	1:D:203:VAL:HG21	1.98	0.45
1:D:189:ASP:OD2	1:D:191:ALA:HB3	2.16	0.45
1:D:200:PRO:HG2	1:D:748:THR:HG23	1.98	0.45
1:D:219:LEU:HD13	1:D:232:ALA:O	2.16	0.45
1:D:443:VAL:HG12	1:D:444:GLY:N	2.31	0.45
1:E:171:GLY:HA3	1:E:302:THR:CG2	2.46	0.45
1:F:17:LEU:O	1:F:18:VAL:C	2.59	0.45
1:F:158:ILE:C	1:F:160:SER:H	2.24	0.45
1:F:502:LYS:C	1:F:504:ASP:N	2.73	0.45
1:F:908:VAL:HG13	1:F:930:LEU:CD2	2.46	0.45
1:F:1020:VAL:N	1:F:1021:PRO:CD	2.80	0.45
1:A:871:GLN:O	1:A:872:ALA:HB2	2.16	0.45
1:B:204:SER:O	1:B:208:GLN:HG3	2.16	0.45
1:B:507:GLU:O	1:B:518:ARG:NH1	2.50	0.45
1:B:984:VAL:O	1:B:985:VAL:C	2.59	0.45
1:C:68:GLN:HB3	1:C:110:LYS:HB3	1.97	0.45
1:C:306:ILE:CD1	1:C:307:ARG:N	2.77	0.45
1:C:372:VAL:C	1:C:374:VAL:H	2.24	0.45
1:C:374:VAL:O	1:C:375:VAL:C	2.58	0.45
1:C:482:VAL:HG22	1:C:486:LEU:HD22	1.97	0.45
1:D:246:PHE:O	1:D:262:LEU:HD23	2.15	0.45
1:D:574:ALA:HB2	1:D:629:ILE:HD11	1.98	0.45
1:D:674:LEU:HG	1:D:674:LEU:O	2.16	0.45
1:D:757:TYR:CE1	1:D:769:ARG:HB3	2.49	0.45
1:D:984:VAL:O	1:D:987:LEU:N	2.46	0.45
1:E:26:SER:O	1:E:30:LEU:HB2	2.16	0.45
1:E:326:PRO:HB2	1:E:630:MET:CE	2.46	0.45
1:E:449:LEU:HD22	1:E:453:PHE:HE2	1.82	0.45
1:E:573:PHE:CE2	1:E:668:PRO:HB3	2.51	0.45
1:F:206:ALA:HB1	1:F:249:ILE:CG2	2.46	0.45
1:F:241:GLN:HB2	1:F:762:ILE:HG13	1.98	0.45
1:F:410:ILE:HD12	1:F:411:VAL:N	2.31	0.45
1:A:328:ASP:OD1	1:A:331:PRO:CD	2.64	0.45
1:A:348:ILE:HD12	1:A:372:VAL:CG1	2.42	0.45
1:A:493:CYS:HB3	1:A:497:LEU:HD22	1.98	0.45
1:A:943:LEU:HD13	1:A:969:ARG:HH21	1.79	0.45
1:B:228:GLN:O	1:B:230:LEU:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:555:MET:HE3	1:B:916:SER:CB	2.47	0.45
1:B:709:ASN:OD1	1:B:711:ALA:HB3	2.17	0.45
1:C:20:MET:HG2	1:C:377:LEU:HD12	1.99	0.45
1:C:145:THR:C	1:C:147:GLY:H	2.24	0.45
1:C:344:LEU:HD23	1:C:399:VAL:HG22	1.99	0.45
1:C:351:VAL:HG13	1:C:979:ALA:HB1	1.98	0.45
1:C:584:ALA:HA	1:C:587:THR:HB	1.99	0.45
1:C:774:GLY:O	1:C:779:ARG:NH1	2.48	0.45
1:D:30:LEU:HD21	1:D:384:ALA:HB2	1.98	0.45
1:D:78:ILE:HD12	1:D:91:THR:C	2.41	0.45
1:D:123:GLN:C	1:D:125:GLN:N	2.75	0.45
1:D:379:THR:HA	1:D:382:VAL:HG13	1.99	0.45
1:D:445:ILE:HG13	1:D:446:ALA:N	2.31	0.45
1:E:609:VAL:HG13	1:E:627:ALA:HB1	1.99	0.45
1:F:183:SER:N	1:F:271:GLY:O	2.44	0.45
1:F:901:MET:O	1:F:902:LEU:C	2.60	0.45
1:A:302:THR:O	1:A:306:ILE:HG13	2.16	0.45
1:A:554:TRP:CZ2	1:A:558:ARG:HD2	2.52	0.45
1:A:637:ARG:HB2	1:A:642:ASN:HB3	1.98	0.45
1:A:726:TYR:CD1	1:A:808:TRP:CE2	3.04	0.45
1:A:940:ASN:HD21	1:A:976:THR:CG2	2.30	0.45
1:B:30:LEU:HD23	1:B:390:ILE:CG1	2.45	0.45
1:B:49:TYR:O	1:B:50:PRO:C	2.59	0.45
1:B:682:LEU:CD2	1:B:826:ILE:O	2.64	0.45
1:C:376:LEU:HA	1:C:379:THR:CG2	2.44	0.45
1:D:49:TYR:C	1:D:49:TYR:CD2	2.93	0.45
1:D:156:ASN:HD21	1:D:768:LYS:CE	2.20	0.45
1:D:384:ALA:O	1:D:387:GLY:N	2.36	0.45
1:D:626:MET:HE1	1:D:628:PHE:CZ	2.51	0.45
1:D:723:GLU:HB2	1:D:724:PRO:CD	2.43	0.45
1:E:144:SER:O	1:E:145:THR:C	2.59	0.45
1:E:406:VAL:O	1:E:410:ILE:HG12	2.17	0.45
1:E:478:MET:SD	1:E:478:MET:C	3.00	0.45
1:E:569:GLN:O	1:E:571:VAL:N	2.42	0.45
1:E:597:TYR:OH	1:E:650:ARG:O	2.34	0.45
1:E:715:VAL:O	1:E:715:VAL:HG12	2.17	0.45
1:F:602:GLU:OE2	1:F:650:ARG:NH2	2.49	0.45
1:A:512:PHE:N	1:A:512:PHE:HD1	2.14	0.45
1:A:709:ASN:OD1	1:A:711:ALA:HB3	2.16	0.45
1:B:49:TYR:CE1	1:B:121:GLU:HG3	2.52	0.45
1:B:302:THR:O	1:B:306:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:584:ALA:H	1:B:622:GLN:HE21	1.63	0.45
1:C:340:VAL:HG13	1:C:341:VAL:N	2.32	0.45
1:C:414:GLU:C	1:C:414:GLU:OE2	2.59	0.45
1:C:421:ALA:O	1:C:502:LYS:HA	2.16	0.45
1:C:596:GLU:C	1:C:598:LEU:N	2.74	0.45
1:C:687:GLN:C	1:C:689:GLY:N	2.74	0.45
1:D:140:VAL:HB	1:D:289:ILE:HD11	1.98	0.45
1:D:517:ASN:O	1:D:521:LEU:HB2	2.16	0.45
1:E:365:THR:HG22	1:E:366:LEU:HD23	1.98	0.45
1:E:907:GLY:HA2	1:E:1011:THR:OG1	2.16	0.45
1:F:72:ILE:CG2	1:F:73:ASP:N	2.79	0.45
1:F:330:THR:O	1:F:333:VAL:HB	2.17	0.45
1:F:376:LEU:HA	1:F:379:THR:HG22	1.98	0.45
1:A:102:ILE:HD12	1:C:101:ASP:HB3	1.99	0.45
1:A:115:THR:HB	1:A:116:PRO:HD3	1.98	0.45
1:A:324:VAL:HG22	1:A:325:TYR:N	2.32	0.45
1:A:907:GLY:O	1:A:1008:GLY:HA2	2.17	0.45
1:B:451:ALA:HA	2:B:2004:LMT:H92	1.99	0.45
1:C:114:ALA:C	1:C:116:PRO:HD2	2.42	0.45
1:C:900:VAL:HG23	1:C:901:MET:CE	2.46	0.45
1:C:993:ALA:O	1:C:994:GLY:C	2.58	0.45
1:D:527:TYR:CE1	1:D:966:CYS:HB3	2.52	0.45
1:D:616:ASN:OD1	1:D:618:ALA:HB3	2.17	0.45
1:D:671:VAL:HG13	1:D:674:LEU:HG	1.98	0.45
1:D:977:SER:O	1:D:981:ILE:HG13	2.16	0.45
1:E:54:ALA:O	1:E:815:LEU:HD12	2.15	0.45
1:E:681:ASP:OD2	1:E:681:ASP:C	2.60	0.45
1:E:685:GLN:O	1:E:855:GLY:N	2.50	0.45
1:E:739:GLY:O	1:E:793:ASP:N	2.50	0.45
1:F:377:LEU:O	1:F:380:PHE:HB2	2.16	0.45
1:F:758:VAL:HG23	1:F:759:ASN:N	2.32	0.45
1:A:23:GLY:O	1:A:26:SER:HB2	2.17	0.45
1:A:150:THR:HG23	1:A:153:ASP:H	1.82	0.45
1:A:354:VAL:HG11	1:A:979:ALA:HB2	1.99	0.45
1:B:370:ILE:C	1:B:373:PRO:HD2	2.41	0.45
1:B:601:LYS:HD3	1:B:601:LYS:O	2.16	0.45
1:B:631:LEU:HD21	1:B:647:LEU:HD22	1.99	0.45
1:C:214:ILE:CD1	1:C:216:SER:HB3	2.47	0.45
1:C:400:LEU:HD23	1:C:984:VAL:CG1	2.47	0.45
1:C:882:VAL:O	1:C:886:CYS:SG	2.73	0.45
1:D:354:VAL:O	1:D:358:PHE:HD2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:34:GLN:HB2	1:E:333:VAL:CG2	2.46	0.45
1:E:614:GLY:HA2	1:E:621:GLY:O	2.17	0.45
1:E:633:PRO:O	1:E:637:ARG:HG2	2.17	0.45
1:F:376:LEU:HA	1:F:379:THR:CG2	2.47	0.45
1:F:724:PRO:HA	1:F:810:TYR:CB	2.47	0.45
1:F:749:VAL:HG23	1:F:750:SER:N	2.32	0.45
1:A:8:ARG:HA	1:B:892:GLU:OE2	2.16	0.45
1:A:224:ALA:CB	1:B:780:MET:HE1	2.28	0.45
1:A:794:LYS:HZ3	1:A:796:GLU:CD	2.25	0.45
1:A:999:HIS:O	1:A:1003:THR:HG23	2.16	0.45
1:B:156:ASN:HA	1:B:159:VAL:HG23	1.98	0.45
1:B:208:GLN:HA	1:B:759:ASN:OD1	2.17	0.45
1:B:558:ARG:HD2	1:B:558:ARG:C	2.41	0.45
1:B:628:PHE:O	1:B:630:MET:HE3	2.17	0.45
1:C:46:GLN:HG2	1:C:89:THR:OG1	2.17	0.45
1:C:541:TYR:O	1:C:544:ILE:HG22	2.17	0.45
1:C:925:PHE:HD1	1:C:1001:ILE:HB	1.82	0.45
1:D:103:ALA:O	1:D:107:VAL:HG23	2.17	0.45
1:D:124:ARG:NH1	1:D:757:TYR:CE2	2.85	0.45
1:D:416:VAL:HG12	1:D:420:MET:CE	2.44	0.45
1:D:687:GLN:HE21	1:D:687:GLN:CA	2.30	0.45
1:D:902:LEU:C	1:D:904:VAL:H	2.24	0.45
1:D:902:LEU:HD13	1:D:1023:PHE:CE1	2.52	0.45
1:D:994:GLY:O	1:D:995:SER:C	2.60	0.45
1:D:1021:PRO:O	1:D:1025:VAL:HG23	2.17	0.45
1:E:8:ARG:HA	1:F:892:GLU:CD	2.42	0.45
1:E:61:VAL:HG12	1:E:62:VAL:N	2.32	0.45
1:E:159:VAL:HG21	1:E:181:GLN:CG	2.46	0.45
1:E:959:VAL:O	1:E:963:ILE:HG13	2.17	0.45
1:F:178:PHE:CE2	1:F:290:ALA:HB2	2.51	0.45
1:F:891:TYR:O	1:F:892:GLU:C	2.60	0.45
1:A:190:PRO:HB3	1:A:788:TRP:CE3	2.52	0.44
1:A:963:ILE:O	1:A:964:GLU:C	2.59	0.44
1:A:1015:LEU:O	1:A:1019:TRP:HE3	2.00	0.44
1:C:629:ILE:HG22	1:C:631:LEU:HD21	1.98	0.44
1:D:38:ILE:HD11	1:D:671:VAL:HG11	1.98	0.44
1:D:66:GLU:OE1	1:D:820:GLY:HA2	2.16	0.44
1:D:157:TYR:HA	1:D:161:ASN:ND2	2.33	0.44
1:D:240:LEU:HB2	1:D:246:PHE:CE1	2.51	0.44
1:D:330:THR:N	1:D:331:PRO:CD	2.80	0.44
1:D:344:LEU:CD2	1:D:402:ILE:HD11	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:937:SER:HB2	1:D:1009:MET:HE1	1.98	0.44
1:E:143:VAL:HG22	1:E:144:SER:H	1.80	0.44
1:F:20:MET:HG2	1:F:377:LEU:HD12	1.99	0.44
1:F:938:ALA:O	1:F:942:ILE:HG12	2.17	0.44
1:F:1008:GLY:O	1:F:1009:MET:C	2.56	0.44
1:A:187:TRP:HA	1:A:773:GLN:O	2.16	0.44
1:A:671:VAL:HG13	1:A:674:LEU:HD21	1.98	0.44
1:A:680:PHE:CE2	1:A:712:LEU:HD22	2.52	0.44
1:A:930:LEU:O	1:A:933:THR:HB	2.17	0.44
1:B:119:PRO:HB2	1:B:121:GLU:HG2	1.99	0.44
1:B:183:SER:OG	1:B:273:GLN:HB2	2.17	0.44
1:B:806:GLY:O	1:B:807:LYS:HB2	2.18	0.44
1:C:428:ARG:HA	1:C:494:ALA:CB	2.47	0.44
1:C:518:ARG:O	1:C:522:SER:HB3	2.17	0.44
1:C:542:LEU:O	1:C:545:TYR:HB3	2.17	0.44
1:C:655:PHE:HA	1:C:658:PHE:CB	2.45	0.44
1:F:38:ILE:HD11	1:F:674:LEU:HD11	1.99	0.44
1:F:500:ILE:HG22	1:F:504:ASP:OD1	2.17	0.44
1:F:711:ALA:O	1:F:831:ALA:N	2.50	0.44
1:F:744:ASP:O	1:F:746:ASN:N	2.50	0.44
1:F:1007:GLY:O	1:F:1010:VAL:HB	2.18	0.44
1:A:558:ARG:HG2	1:A:558:ARG:HH11	1.83	0.44
1:A:702:PHE:HD1	1:A:850:LEU:HD11	1.82	0.44
1:A:830:PRO:CB	1:A:839:ALA:HB2	2.46	0.44
1:A:909:ILE:O	1:A:912:LEU:N	2.42	0.44
1:C:237:LYS:O	1:C:238:THR:HG23	2.17	0.44
1:C:631:LEU:HD13	1:C:637:ARG:NH1	2.33	0.44
1:C:971:ARG:O	1:C:975:MET:HB2	2.18	0.44
1:D:276:SER:C	1:D:277:ILE:HD12	2.42	0.44
1:D:472:ILE:HA	1:D:475:VAL:CG1	2.47	0.44
1:D:594:MET:O	1:D:598:LEU:HB2	2.16	0.44
1:D:882:VAL:HG12	1:D:882:VAL:O	2.16	0.44
1:E:2:SER:C	1:E:4:PHE:H	2.25	0.44
1:E:47:VAL:HG12	1:E:48:SER:N	2.33	0.44
1:E:47:VAL:CG2	1:E:127:ILE:HG13	2.46	0.44
1:E:401:ALA:O	1:E:405:LEU:HG	2.18	0.44
1:F:194:ASN:OD1	1:F:797:MET:SD	2.75	0.44
1:F:662:MET:O	1:F:663:VAL:HB	2.18	0.44
1:F:727:LYS:HG2	1:F:729:GLU:OE2	2.17	0.44
1:F:908:VAL:HG13	1:F:930:LEU:HD21	1.99	0.44
1:F:951:LEU:O	1:F:952:HIS:C	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:568:ASP:OD1	1:A:637:ARG:NH2	2.51	0.44
1:A:762:ILE:HD11	1:B:59:ASP:CB	2.47	0.44
1:A:1023:PHE:O	1:A:1027:VAL:HG22	2.16	0.44
1:B:1:MET:O	1:B:4:PHE:HB3	2.18	0.44
1:B:308:GLN:HA	1:B:308:GLN:NE2	2.32	0.44
1:B:489:THR:O	1:B:490:PRO:C	2.59	0.44
1:B:847:VAL:HG13	1:B:850:LEU:CD1	2.47	0.44
1:C:54:ALA:HB2	1:C:83:ASN:C	2.43	0.44
1:C:428:ARG:HA	1:C:494:ALA:HB1	1.99	0.44
1:C:466:ILE:HA	1:C:469:GLN:HG2	1.99	0.44
1:C:482:VAL:O	1:C:486:LEU:HB2	2.17	0.44
1:D:462:SER:O	1:D:466:ILE:HG12	2.17	0.44
1:D:492:LEU:HD22	1:D:496:MET:CE	2.48	0.44
1:D:727:LYS:HB2	1:F:235:ILE:HD12	1.99	0.44
1:D:909:ILE:CG1	1:D:1011:THR:HG21	2.41	0.44
1:E:312:ASN:O	1:E:313:LEU:HD23	2.18	0.44
1:E:345:GLY:O	1:E:348:ILE:HG13	2.17	0.44
1:E:714:ARG:O	1:E:716:ARG:N	2.49	0.44
1:E:785:LEU:O	1:E:801:ASN:HB3	2.17	0.44
1:E:906:LEU:HG	1:E:1015:LEU:HB3	1.97	0.44
1:F:72:ILE:CG2	1:F:94:PHE:HE1	2.30	0.44
1:F:328:ASP:O	1:F:630:MET:HE1	2.18	0.44
1:F:445:ILE:HD12	1:F:445:ILE:O	2.16	0.44
1:A:103:ALA:O	1:A:106:GLN:N	2.48	0.44
1:A:335:ALA:O	1:A:339:GLU:HB2	2.17	0.44
1:A:515:TRP:CH2	1:A:519:MET:HE2	2.52	0.44
1:A:684:LEU:N	1:A:684:LEU:CD1	2.81	0.44
1:A:902:LEU:HD13	1:A:1023:PHE:CE1	2.52	0.44
1:A:910:GLY:HA3	1:A:1007:GLY:O	2.18	0.44
1:B:458:PHE:O	2:B:2003:LMT:C6'	2.65	0.44
1:B:720:MET:HB2	1:B:813:PRO:HG2	1.98	0.44
1:C:2:SER:H	2:C:2002:LMT:C6'	2.30	0.44
1:C:376:LEU:O	1:C:379:THR:HG22	2.18	0.44
1:C:641:GLU:HG3	1:C:650:ARG:NH1	2.33	0.44
1:D:413:VAL:O	1:D:417:GLU:HG3	2.17	0.44
1:D:545:TYR:O	1:D:548:ILE:HB	2.17	0.44
1:D:579:PRO:HG2	1:D:582:SER:OG	2.17	0.44
1:D:897:PRO:O	1:D:900:VAL:HG12	2.17	0.44
1:D:998:GLN:HE21	1:D:998:GLN:HB3	1.59	0.44
1:E:905:PRO:C	1:E:908:VAL:HG12	2.43	0.44
1:F:251:LEU:HD22	1:F:251:LEU:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:366:LEU:HD12	1:F:496:MET:HE1	2.00	0.44
1:F:527:TYR:CD2	1:F:970:LEU:HG	2.53	0.44
1:A:572:LEU:HD12	1:A:666:PHE:O	2.17	0.44
1:A:742:LEU:N	1:A:742:LEU:CD1	2.81	0.44
1:A:790:VAL:HG12	1:A:791:ARG:H	1.82	0.44
1:B:751:ILE:HG23	1:B:756:SER:CB	2.47	0.44
1:B:883:VAL:HG23	1:B:884:PHE:N	2.33	0.44
1:C:45:VAL:HG12	1:C:127:ILE:CG2	2.48	0.44
1:C:47:VAL:HG23	1:C:127:ILE:HG23	1.97	0.44
1:C:112:GLN:OE1	1:C:113:LEU:HD12	2.17	0.44
1:C:342:LYS:O	1:C:343:THR:C	2.61	0.44
1:C:354:VAL:HG21	1:C:982:LEU:CD2	2.45	0.44
1:D:577:GLN:O	1:D:578:THR:C	2.60	0.44
1:D:671:VAL:HG11	1:D:674:LEU:HD21	1.99	0.44
1:D:958:ILE:CG1	1:D:959:VAL:N	2.80	0.44
1:E:298:ASN:HB3	1:E:301:ASP:HB2	2.00	0.44
1:E:695:LEU:O	1:E:698:ALA:N	2.50	0.44
1:E:713:GLN:NE2	1:E:714:ARG:NE	2.64	0.44
1:E:713:GLN:HB3	1:E:829:GLU:O	2.18	0.44
1:F:35:TYR:C	1:F:36:PRO:O	2.57	0.44
1:F:98:THR:O	1:F:100:PRO:HD3	2.18	0.44
1:F:169:THR:HB	1:F:172:VAL:HG21	1.98	0.44
1:F:391:ASN:OD1	1:F:394:THR:HB	2.17	0.44
1:F:403:GLY:HA3	1:F:980:PHE:HA	1.99	0.44
1:F:789:TYR:CE2	1:F:799:PRO:HG3	2.53	0.44
1:A:58:GLN:OE1	3:A:1201:HOH:O	2.20	0.44
1:A:140:VAL:HG22	1:A:325:TYR:HE1	1.83	0.44
1:A:228:GLN:HG2	1:B:780:MET:HE3	1.97	0.44
1:A:568:ASP:CB	1:A:634:TRP:HZ3	2.25	0.44
1:A:681:ASP:OD1	1:A:859:THR:CG2	2.66	0.44
1:A:954:GLN:CD	1:A:955:GLY:H	2.25	0.44
1:B:57:VAL:HG11	1:B:88:MET:HB3	1.98	0.44
1:B:134:LYS:NZ	1:B:134:LYS:N	2.56	0.44
1:B:578:THR:CG2	1:B:590:VAL:HG21	2.47	0.44
1:B:812:SER:CB	1:B:815:LEU:HD21	2.47	0.44
1:C:277:ILE:HG23	1:C:615:PHE:H	1.82	0.44
1:C:353:LEU:O	1:C:356:TYR:HB3	2.18	0.44
1:C:370:ILE:O	1:C:373:PRO:HD2	2.18	0.44
1:C:507:GLU:HG3	1:C:509:LYS:HB3	1.99	0.44
1:C:752:ALA:HA	1:C:774:GLY:N	2.23	0.44
1:C:900:VAL:HG23	1:C:901:MET:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:219:LEU:HD13	1:D:232:ALA:HB3	2.00	0.44
1:D:435:MET:O	1:D:436:GLY:C	2.59	0.44
1:D:545:TYR:HB2	1:D:1019:TRP:HE1	1.81	0.44
1:D:975:MET:HE2	1:D:975:MET:HB3	1.76	0.44
1:E:55:GLU:HA	1:E:815:LEU:CD1	2.48	0.44
1:E:231:ASN:N	1:F:581:GLY:O	2.47	0.44
2:E:2002:LMT:O6B	2:E:2002:LMT:H1B	2.18	0.44
1:F:584:ALA:H	1:F:622:GLN:HG2	1.82	0.44
1:A:890:LEU:HD23	1:A:890:LEU:C	2.42	0.44
1:B:197:GLN:HA	1:B:797:MET:SD	2.58	0.44
1:B:356:TYR:O	1:B:357:LEU:C	2.61	0.44
1:B:449:LEU:HB2	1:B:478:MET:HE2	1.99	0.44
1:B:553:ILE:O	1:B:556:PHE:HB2	2.18	0.44
1:C:122:VAL:HA	1:C:125:GLN:HB2	2.00	0.44
1:C:745:ILE:C	1:C:747:SER:N	2.74	0.44
1:C:752:ALA:CA	1:C:774:GLY:H	2.24	0.44
1:C:978:LEU:O	1:C:982:LEU:HD22	2.18	0.44
1:D:26:SER:O	1:D:30:LEU:HG	2.18	0.44
1:D:909:ILE:HG13	1:D:910:GLY:N	2.32	0.44
1:E:84:SER:O	1:E:86:GLY:N	2.50	0.44
1:E:103:ALA:O	1:E:107:VAL:HG23	2.18	0.44
1:E:960:GLU:O	1:E:964:GLU:HB2	2.18	0.44
1:F:140:VAL:HG21	1:F:306:ILE:HD11	2.00	0.44
1:F:500:ILE:CG2	1:F:504:ASP:OD1	2.66	0.44
1:F:685:GLN:NE2	1:F:857:SER:HB2	2.19	0.44
1:F:912:LEU:HD23	1:F:926:PHE:CZ	2.52	0.44
1:F:929:GLY:HA2	1:F:932:THR:HG23	2.00	0.44
1:A:20:MET:O	1:A:21:LEU:C	2.61	0.44
1:A:21:LEU:HD23	1:A:21:LEU:HA	1.90	0.44
1:A:246:PHE:O	1:A:249:ILE:HG13	2.17	0.44
1:A:679:GLY:HA3	1:A:828:GLY:O	2.18	0.44
1:A:791:ARG:HB2	1:A:797:MET:HE1	2.00	0.44
1:B:223:PRO:HD3	1:C:275:TYR:CD2	2.52	0.44
1:B:348:ILE:CD1	1:B:369:THR:HG23	2.48	0.44
1:C:212:VAL:HA	1:C:239:ARG:HD3	1.99	0.44
1:C:453:PHE:CD2	1:C:474:ILE:HG21	2.53	0.44
1:C:500:ILE:O	1:C:500:ILE:HG12	2.18	0.44
1:C:719:GLY:C	1:C:720:MET:SD	3.00	0.44
1:D:731:ASP:C	1:D:733:GLU:N	2.76	0.44
1:D:780:MET:HA	1:F:220:GLY:H	1.82	0.44
1:E:119:PRO:HG2	1:E:122:VAL:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:579:PRO:O	1:E:582:SER:OG	2.35	0.44
1:E:805:THR:O	1:E:805:THR:HG23	2.18	0.44
1:F:193:LEU:HD13	1:F:265:VAL:HB	1.99	0.44
1:F:439:GLN:NE2	1:F:439:GLN:HA	2.33	0.44
1:A:75:LEU:C	1:A:75:LEU:CD2	2.91	0.43
1:A:219:LEU:O	1:A:221:GLY:N	2.51	0.43
1:A:454:LEU:HD23	1:A:475:VAL:HG11	2.00	0.43
1:A:637:ARG:HD2	1:A:642:ASN:O	2.17	0.43
1:B:267:ASP:O	1:B:268:VAL:HG23	2.17	0.43
1:B:352:PHE:CD1	1:B:365:THR:CG2	3.01	0.43
1:C:20:MET:CB	1:C:377:LEU:HD12	2.48	0.43
1:C:702:PHE:CE1	1:C:846:ILE:HG13	2.52	0.43
1:D:99:ASP:O	1:D:100:PRO:C	2.60	0.43
1:D:399:VAL:HG11	1:D:987:LEU:HD11	2.00	0.43
1:D:423:GLU:CG	1:D:425:LEU:HD11	2.45	0.43
1:E:46:GLN:HA	1:E:88:MET:O	2.16	0.43
1:E:637:ARG:HG3	1:E:637:ARG:O	2.18	0.43
1:F:11:PHE:O	1:F:11:PHE:CD2	2.69	0.43
1:F:432:ARG:HG2	1:F:432:ARG:HH11	1.83	0.43
1:F:468:ARG:O	1:F:469:GLN:C	2.61	0.43
1:F:480:LEU:O	1:F:484:VAL:HG13	2.18	0.43
1:F:896:ILE:HD12	1:F:896:ILE:N	2.32	0.43
1:A:213:GLN:NE2	1:A:238:THR:HA	2.32	0.43
1:A:649:LYS:HZ1	1:A:652:GLN:HE21	1.66	0.43
1:B:151:LYS:HG3	1:B:286:ALA:O	2.18	0.43
1:B:367:ILE:HB	1:B:368:PRO:CD	2.46	0.43
1:B:686:ASP:OD2	1:B:689:GLY:N	2.51	0.43
1:C:163:GLN:O	1:C:164:ASP:C	2.61	0.43
1:C:688:ALA:O	1:C:689:GLY:O	2.36	0.43
1:D:70:ASN:O	1:D:110:LYS:HE3	2.18	0.43
1:D:215:SER:O	1:E:750:SER:OG	2.23	0.43
1:D:699:ARG:HD3	1:D:824:MET:SD	2.58	0.43
1:E:54:ALA:HA	1:E:83:ASN:O	2.18	0.43
1:E:234:ILE:HG22	1:F:726:TYR:HB2	2.00	0.43
1:E:303:ALA:HB2	1:E:330:THR:HG21	1.99	0.43
1:E:535:LEU:CD1	1:E:959:VAL:HG23	2.48	0.43
1:E:674:LEU:HD11	1:E:861:LEU:CD2	2.47	0.43
1:E:739:GLY:HA3	1:E:793:ASP:OD2	2.18	0.43
1:F:420:MET:HG3	1:F:425:LEU:O	2.18	0.43
1:F:463:THR:HG22	1:F:467:TYR:CE1	2.53	0.43
1:A:298:ASN:ND2	1:A:301:ASP:H	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:329:THR:O	1:A:329:THR:CG2	2.66	0.43
1:A:597:TYR:C	1:A:597:TYR:CD2	2.95	0.43
1:A:687:GLN:HE22	1:A:821:VAL:HG21	1.83	0.43
1:A:988:ALA:HB2	1:A:1002:GLY:C	2.43	0.43
1:B:314:GLU:N	1:B:315:PRO:CD	2.80	0.43
1:B:405:LEU:HD21	1:B:477:ALA:HB1	2.00	0.43
1:B:630:MET:O	1:B:631:LEU:HG	2.18	0.43
1:B:706:ALA:HA	1:B:846:ILE:CD1	2.48	0.43
1:B:984:VAL:HG12	1:B:1006:ILE:HD11	1.99	0.43
1:C:358:PHE:O	1:C:971:ARG:NH2	2.51	0.43
1:C:368:PRO:O	1:C:369:THR:C	2.59	0.43
1:C:452:VAL:HG22	1:C:883:VAL:CG2	2.48	0.43
1:C:641:GLU:CB	1:C:650:ARG:HH12	2.31	0.43
1:D:144:SER:HB3	1:D:149:MET:HB2	2.00	0.43
1:D:273:GLN:HG3	1:D:771:TYR:CE2	2.54	0.43
1:D:456:MET:HG2	1:D:875:LEU:HD11	1.98	0.43
1:D:560:PRO:O	1:D:921:SER:CB	2.66	0.43
1:D:792:ASN:ND2	1:D:794:LYS:HG2	2.33	0.43
1:D:1016:ALA:O	1:D:1020:VAL:HG23	2.18	0.43
1:E:524:THR:O	1:E:527:TYR:N	2.51	0.43
1:F:47:VAL:CG2	1:F:127:ILE:HG23	2.48	0.43
1:F:99:ASP:HB3	1:F:102:ILE:CG1	2.47	0.43
1:F:744:ASP:C	1:F:746:ASN:H	2.26	0.43
1:F:842:ALA:O	1:F:845:GLU:HB2	2.18	0.43
1:F:1011:THR:CB	1:F:1015:LEU:HD23	2.48	0.43
1:A:65:ILE:HD11	1:A:118:LEU:HD21	2.00	0.43
1:A:156:ASN:O	1:A:160:SER:CB	2.66	0.43
1:A:253:VAL:O	1:A:254:ASN:C	2.61	0.43
1:A:353:LEU:O	1:A:354:VAL:C	2.61	0.43
1:A:695:LEU:HD22	1:A:824:MET:CE	2.48	0.43
1:A:827:LEU:HD23	1:A:827:LEU:H	1.84	0.43
1:A:838:ASP:C	1:A:840:MET:H	2.26	0.43
1:A:885:LEU:O	1:A:886:CYS:C	2.62	0.43
1:B:781:ASN:N	1:B:784:ASP:OD1	2.43	0.43
1:C:29:SER:OG	2:C:2001:LMT:H6D	2.18	0.43
1:C:248:ASN:N	1:C:248:ASN:ND2	2.66	0.43
1:C:545:TYR:C	1:C:547:VAL:N	2.73	0.43
1:D:140:VAL:HB	1:D:289:ILE:CD1	2.49	0.43
1:D:574:ALA:HB1	1:D:594:MET:SD	2.58	0.43
1:D:713:GLN:O	1:D:714:ARG:C	2.60	0.43
1:E:51:GLY:HA3	1:E:754:GLY:HA2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:396:PHE:CD1	1:E:1001:ILE:HD11	2.53	0.43
1:E:402:ILE:HG22	1:E:403:GLY:N	2.32	0.43
1:E:584:ALA:O	1:E:588:GLN:HB2	2.19	0.43
1:E:750:SER:C	1:E:752:ALA:N	2.74	0.43
1:E:854:VAL:CG1	1:E:855:GLY:N	2.81	0.43
1:F:407:ASP:O	1:F:408:ASP:C	2.62	0.43
1:F:449:LEU:O	1:F:453:PHE:CD2	2.72	0.43
1:F:533:SER:O	1:F:534:ILE:C	2.61	0.43
1:F:548:ILE:HG22	1:F:909:ILE:HD13	1.98	0.43
1:F:995:SER:O	1:F:996:GLY:C	2.61	0.43
1:A:57:VAL:HG22	1:A:62:VAL:HG23	2.01	0.43
1:A:596:GLU:O	1:A:600:GLU:HB2	2.18	0.43
1:A:794:LYS:NZ	1:A:796:GLU:CD	2.77	0.43
1:A:827:LEU:O	1:A:827:LEU:HG	2.19	0.43
1:B:391:ASN:HD21	1:B:469:GLN:NE2	2.17	0.43
1:B:463:THR:O	1:B:467:TYR:CD2	2.71	0.43
1:B:569:GLN:C	1:B:571:VAL:H	2.27	0.43
1:C:359:LEU:O	1:C:360:GLN:HG2	2.18	0.43
1:C:422:GLU:HA	1:C:505:HIS:CE1	2.54	0.43
1:C:455:PRO:O	1:C:457:ALA:N	2.51	0.43
1:C:520:PHE:O	1:C:523:THR:HG22	2.18	0.43
1:C:887:LEU:C	1:C:889:ALA:H	2.25	0.43
1:C:951:LEU:HD13	1:C:964:GLU:HB3	1.99	0.43
1:D:488:LEU:O	1:D:491:ALA:HB3	2.19	0.43
1:D:715:VAL:HA	1:D:828:GLY:HA3	1.99	0.43
1:E:127:ILE:H	1:E:127:ILE:CD1	2.28	0.43
1:E:332:VAL:HG12	1:E:333:VAL:N	2.34	0.43
1:E:579:PRO:HG2	1:E:586:ARG:HH22	1.82	0.43
1:E:845:GLU:OE2	1:E:848:LYS:HD3	2.18	0.43
1:E:851:PRO:HB2	1:E:854:VAL:HG23	2.01	0.43
1:E:972:PRO:O	1:E:973:ILE:C	2.62	0.43
2:E:2001:LMT:H122	2:E:2002:LMT:C10	2.49	0.43
1:F:12:ALA:O	1:F:15:ILE:CD1	2.66	0.43
1:A:488:LEU:HD22	1:A:492:LEU:HG	2.00	0.43
1:A:780:MET:HE3	1:C:228:GLN:CG	2.49	0.43
1:A:928:VAL:HG12	1:A:929:GLY:N	2.32	0.43
1:B:24:GLY:O	1:B:27:ILE:HG13	2.18	0.43
1:B:104:GLN:O	1:B:107:VAL:N	2.45	0.43
1:B:108:GLN:HB3	1:B:129:VAL:HG11	1.99	0.43
1:B:178:PHE:HB3	2:B:2001:LMT:H52	2.00	0.43
1:B:363:ARG:NE	1:B:498:LYS:HE3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:277:ILE:HG23	1:C:615:PHE:N	2.33	0.43
1:C:637:ARG:HA	1:C:638:PRO:HD2	1.91	0.43
1:C:687:GLN:HG3	1:C:688:ALA:N	2.27	0.43
1:D:214:ILE:O	1:D:214:ILE:HD12	2.18	0.43
1:D:380:PHE:CD1	1:D:398:MET:HE3	2.53	0.43
1:D:384:ALA:O	1:D:385:ALA:C	2.62	0.43
1:D:616:ASN:O	1:D:619:GLY:N	2.47	0.43
1:E:544:ILE:HG21	1:E:1019:TRP:HZ2	1.84	0.43
1:E:793:ASP:O	1:E:794:LYS:HD3	2.19	0.43
1:F:84:SER:N	1:F:813:PRO:O	2.48	0.43
1:F:188:LEU:HA	1:F:266:ALA:CB	2.45	0.43
1:F:188:LEU:HD23	1:F:266:ALA:HB2	2.00	0.43
1:A:325:TYR:O	1:A:326:PRO:O	2.37	0.43
1:A:532:ALA:HA	1:A:963:ILE:CD1	2.48	0.43
1:A:567:GLU:OE1	1:A:996:GLY:N	2.51	0.43
1:A:876:TYR:CZ	1:A:930:LEU:HD23	2.54	0.43
1:B:480:LEU:HD23	1:B:483:ILE:HD12	2.01	0.43
1:B:572:LEU:HD21	1:B:666:PHE:N	2.33	0.43
1:B:658:PHE:O	1:B:660:ASP:N	2.42	0.43
1:C:32:VAL:CG1	1:C:337:ILE:HG12	2.49	0.43
1:C:682:LEU:HB3	1:C:858:TRP:CE3	2.53	0.43
1:C:725:GLN:NE2	1:C:811:GLY:HA3	2.34	0.43
1:D:713:GLN:HE21	1:D:714:ARG:CG	2.31	0.43
1:E:244:GLU:O	1:E:248:ASN:HB2	2.18	0.43
1:E:1016:ALA:O	1:E:1020:VAL:CG2	2.66	0.43
1:F:38:ILE:C	1:F:38:ILE:CD1	2.91	0.43
1:F:185:ARG:HH11	1:F:185:ARG:CB	2.31	0.43
1:F:201:GLY:O	1:F:203:VAL:N	2.52	0.43
1:F:540:PRO:HA	1:F:543:LEU:HD12	2.01	0.43
1:A:445:ILE:HD12	1:A:446:ALA:CA	2.49	0.43
1:A:958:ILE:HD13	1:A:958:ILE:N	2.33	0.43
1:B:187:TRP:O	1:B:266:ALA:HB1	2.19	0.43
1:C:176:GLN:H	1:C:289:ILE:HD11	1.83	0.43
1:C:317:MET:SD	1:C:321:MET:HE2	2.58	0.43
1:D:49:TYR:CZ	1:F:215:SER:HB3	2.54	0.43
1:D:195:SER:O	1:D:197:GLN:NE2	2.51	0.43
1:D:281:PHE:HE1	1:D:608:SER:HB2	1.81	0.43
1:D:319:GLN:C	1:D:321:MET:H	2.26	0.43
1:D:866:ARG:HG3	1:D:866:ARG:O	2.18	0.43
1:E:61:VAL:CG2	1:E:122:VAL:HG21	2.49	0.43
1:E:199:THR:HG23	1:E:797:MET:HE3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:431:ALA:O	1:E:435:MET:HG2	2.18	0.43
1:E:978:LEU:HA	1:E:981:ILE:HD11	2.00	0.43
1:F:328:ASP:OD1	1:F:330:THR:HB	2.19	0.43
1:F:361:ASN:OD1	1:F:361:ASN:C	2.62	0.43
1:F:555:MET:O	1:F:559:ILE:HG12	2.18	0.43
1:F:740:VAL:HG12	1:F:793:ASP:OD1	2.19	0.43
1:A:183:SER:OG	1:A:769:ARG:O	2.34	0.43
1:A:324:VAL:HG13	1:A:326:PRO:HD3	2.01	0.43
1:A:332:VAL:O	1:A:336:SER:N	2.51	0.43
1:A:452:VAL:HG22	1:A:883:VAL:HG22	2.00	0.43
1:A:471:SER:O	1:A:475:VAL:HG13	2.19	0.43
1:A:555:MET:HB3	1:A:912:LEU:HB3	2.01	0.43
1:A:587:THR:C	1:A:589:VAL:H	2.27	0.43
1:B:175:PHE:HB3	1:B:291:ILE:HG23	2.00	0.43
1:B:241:GLN:HE21	1:B:762:ILE:HG22	1.83	0.43
1:C:454:LEU:CB	1:C:455:PRO:CD	2.97	0.43
1:D:139:VAL:HG22	1:D:327:TYR:H	1.82	0.43
1:D:213:GLN:HG3	1:D:213:GLN:O	2.18	0.43
1:D:343:THR:HG21	1:D:998:GLN:CD	2.43	0.43
1:D:456:MET:HE1	1:D:928:VAL:HG22	2.01	0.43
1:E:10:ILE:HD12	1:F:894:TRP:NE1	2.34	0.43
1:E:14:VAL:O	1:E:17:LEU:HB2	2.18	0.43
1:F:68:GLN:CG	1:F:114:ALA:HB2	2.37	0.43
1:A:63:GLN:HE21	1:A:817:ARG:CZ	2.32	0.43
1:A:131:LYS:O	1:A:131:LYS:CG	2.53	0.43
1:A:574:ALA:O	1:A:627:ALA:N	2.49	0.43
1:A:969:ARG:O	1:A:972:PRO:HG2	2.19	0.43
1:B:47:VAL:HG22	1:B:127:ILE:HG23	2.01	0.43
1:B:156:ASN:ND2	1:B:182:TYR:HB2	2.34	0.43
1:B:191:ALA:C	1:B:193:LEU:H	2.27	0.43
1:B:246:PHE:HZ	1:B:761:PHE:HB3	1.82	0.43
1:B:360:GLN:HE22	1:B:517:ASN:HD21	1.67	0.43
1:B:731:ASP:OD1	1:B:733:GLU:HB2	2.19	0.43
1:C:49:TYR:N	1:C:86:GLY:O	2.32	0.43
1:C:188:LEU:HD21	1:C:772:LEU:HD11	2.01	0.43
1:C:453:PHE:CZ	1:C:932:THR:HB	2.49	0.43
1:C:492:LEU:O	1:C:496:MET:N	2.46	0.43
1:C:596:GLU:O	1:C:598:LEU:N	2.44	0.43
1:C:933:THR:HA	1:C:936:LEU:HD12	2.01	0.43
1:D:734:LYS:O	1:D:738:LEU:HD13	2.19	0.43
1:D:780:MET:HE3	1:F:228:GLN:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1001:ILE:HG23	1:D:1002:GLY:N	2.34	0.43
1:E:1002:GLY:O	1:E:1006:ILE:HG12	2.18	0.43
1:F:17:LEU:HD23	1:F:20:MET:HE3	2.01	0.43
1:F:156:ASN:HD22	1:F:182:TYR:N	2.02	0.43
1:F:277:ILE:HD11	1:F:620:ARG:HH21	1.84	0.43
1:F:856:TYR:C	1:F:856:TYR:HD2	2.25	0.43
1:F:930:LEU:HD23	1:F:930:LEU:HA	1.88	0.43
1:A:446:ALA:CB	1:A:482:VAL:HG21	2.49	0.42
1:A:911:ALA:O	1:A:926:PHE:HE1	2.02	0.42
1:A:1016:ALA:O	1:A:1020:VAL:HG23	2.19	0.42
1:B:46:GLN:HA	1:B:88:MET:CE	2.46	0.42
1:B:364:ALA:HA	1:B:367:ILE:HD13	2.01	0.42
1:B:380:PHE:CZ	1:B:398:MET:HE3	2.54	0.42
1:B:386:PHE:CZ	2:B:2003:LMT:C8	3.02	0.42
1:B:442:LEU:CA	1:B:445:ILE:HG23	2.46	0.42
1:B:537:HIS:O	1:B:541:TYR:CD1	2.72	0.42
1:B:542:LEU:HG	1:B:1022:LEU:HD21	2.01	0.42
1:C:127:ILE:H	1:C:127:ILE:CD1	2.23	0.42
1:C:730:ILE:HD13	1:C:730:ILE:N	2.25	0.42
1:D:64:VAL:HG21	1:D:118:LEU:HD12	2.01	0.42
1:D:143:VAL:HG23	1:D:286:ALA:HB2	2.02	0.42
1:D:251:LEU:CD1	1:D:260:VAL:HG12	2.48	0.42
1:D:328:ASP:OD1	1:D:331:PRO:HD3	2.19	0.42
1:D:367:ILE:HD11	1:D:497:LEU:HD13	2.01	0.42
1:D:762:ILE:CG2	1:D:763:ASP:N	2.82	0.42
1:D:895:SER:C	1:D:897:PRO:CD	2.91	0.42
1:E:34:GLN:HE21	1:E:332:VAL:HG11	1.83	0.42
1:E:330:THR:N	1:E:331:PRO:CD	2.82	0.42
1:E:909:ILE:CG2	1:E:910:GLY:N	2.82	0.42
1:E:971:ARG:N	1:E:972:PRO:CD	2.82	0.42
1:F:82:SER:O	1:F:814:LYS:HA	2.19	0.42
1:F:972:PRO:O	1:F:976:THR:HG23	2.18	0.42
1:A:167:SER:HB3	1:B:70:ASN:HB2	2.00	0.42
1:A:573:PHE:HE1	1:A:628:PHE:CE1	2.38	0.42
1:A:850:LEU:O	1:A:852:LYS:N	2.52	0.42
1:B:20:MET:HG2	1:B:377:LEU:HD12	2.00	0.42
1:B:415:ASN:ND2	1:B:418:ARG:NH1	2.67	0.42
1:B:462:SER:C	1:B:464:GLY:N	2.76	0.42
1:B:713:GLN:HE22	1:B:832:PRO:HD3	1.83	0.42
1:C:40:PRO:HA	1:C:41:PRO:HD3	1.97	0.42
1:C:172:VAL:HG22	1:C:291:ILE:CD1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:228:GLN:OE1	1:C:230:LEU:HB3	2.20	0.42
1:C:1009:MET:CE	1:C:1009:MET:CA	2.93	0.42
1:D:30:LEU:HD21	1:D:384:ALA:CB	2.49	0.42
1:D:186:ILE:HD12	1:D:186:ILE:N	2.34	0.42
1:D:455:PRO:O	1:D:456:MET:C	2.62	0.42
1:D:886:CYS:O	1:D:889:ALA:N	2.52	0.42
1:E:215:SER:HB2	1:F:750:SER:OG	2.20	0.42
1:E:481:SER:O	1:E:482:VAL:C	2.61	0.42
1:E:784:ASP:C	1:E:786:SER:H	2.26	0.42
1:F:118:LEU:N	1:F:118:LEU:HD23	2.35	0.42
1:F:436:GLY:CA	2:F:2001:LMT:O4'	2.62	0.42
1:A:547:VAL:O	1:A:550:ALA:HB3	2.19	0.42
1:B:75:LEU:HD23	1:B:75:LEU:C	2.45	0.42
1:B:129:VAL:HG13	1:C:112:GLN:CD	2.44	0.42
1:B:212:VAL:HG13	1:C:746:ASN:ND2	2.34	0.42
1:B:282:ASN:HD21	1:B:608:SER:CB	2.26	0.42
1:B:311:ALA:O	1:B:315:PRO:HD3	2.19	0.42
1:B:420:MET:O	1:B:424:GLY:HA2	2.19	0.42
1:B:508:HIS:O	1:B:510:GLY:N	2.52	0.42
1:C:314:GLU:C	1:C:316:PHE:H	2.28	0.42
1:C:406:VAL:O	1:C:407:ASP:O	2.37	0.42
1:C:552:MET:SD	1:C:905:PRO:HA	2.59	0.42
1:D:19:ILE:O	1:D:20:MET:C	2.62	0.42
1:D:155:SER:O	1:D:158:ILE:HB	2.19	0.42
1:D:216:SER:O	1:D:217:GLY:C	2.61	0.42
1:D:234:ILE:HA	1:E:726:TYR:O	2.19	0.42
1:D:571:VAL:HG12	1:D:630:MET:CE	2.42	0.42
1:D:602:GLU:C	1:D:604:SER:H	2.27	0.42
1:D:984:VAL:O	1:D:987:LEU:HB2	2.18	0.42
1:E:62:VAL:HG12	1:E:66:GLU:OE2	2.18	0.42
1:E:143:VAL:CG2	1:E:144:SER:N	2.81	0.42
1:E:541:TYR:C	1:E:543:LEU:H	2.26	0.42
1:E:629:ILE:N	1:E:629:ILE:CD1	2.82	0.42
1:E:716:ARG:HG2	1:E:827:LEU:HB2	2.01	0.42
1:F:366:LEU:O	1:F:370:ILE:HG12	2.18	0.42
1:F:400:LEU:HD11	1:F:1001:ILE:HD11	2.01	0.42
1:F:520:PHE:C	1:F:523:THR:HG22	2.44	0.42
1:F:657:SER:O	1:F:658:PHE:C	2.62	0.42
1:F:839:ALA:O	1:F:843:VAL:HG23	2.19	0.42
1:F:927:GLN:O	1:F:928:VAL:C	2.61	0.42
1:F:971:ARG:HH11	1:F:971:ARG:HG3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:13:TRP:O	1:A:16:ALA:HB3	2.19	0.42
1:A:740:VAL:HG13	1:A:790:VAL:HG11	2.02	0.42
1:A:785:LEU:HD12	1:A:785:LEU:N	2.35	0.42
1:B:193:LEU:HG	1:B:198:LEU:O	2.19	0.42
1:B:209:ALA:HB1	1:C:742:LEU:HB3	2.00	0.42
1:B:219:LEU:HB2	1:B:234:ILE:CG2	2.49	0.42
1:B:395:MET:O	1:B:398:MET:HB2	2.19	0.42
1:B:573:PHE:CZ	1:B:668:PRO:HB3	2.54	0.42
1:B:639:GLY:HA3	1:B:641:GLU:OE2	2.20	0.42
1:B:757:TYR:HB2	1:B:771:TYR:CZ	2.54	0.42
1:C:57:VAL:CG1	1:C:88:MET:HB3	2.49	0.42
1:C:146:ASP:OD1	1:C:148:SER:HB3	2.19	0.42
1:C:438:ILE:O	1:C:441:ALA:N	2.46	0.42
1:C:682:LEU:HD23	1:C:682:LEU:N	2.34	0.42
1:C:868:SER:OG	1:C:924:VAL:HG12	2.19	0.42
1:D:367:ILE:CB	1:D:368:PRO:CD	2.96	0.42
1:D:408:ASP:OD1	1:D:408:ASP:N	2.50	0.42
1:D:462:SER:O	1:D:465:VAL:HB	2.19	0.42
1:D:700:ASN:O	1:D:701:LYS:C	2.62	0.42
1:D:943:LEU:HD13	1:D:969:ARG:NE	2.33	0.42
1:E:261:ARG:CB	1:E:263:LYS:HG2	2.49	0.42
1:E:428:ARG:O	1:E:432:ARG:HG2	2.19	0.42
1:E:559:ILE:HD13	1:E:560:PRO:HD2	2.00	0.42
1:E:568:ASP:CG	1:E:644:VAL:HG23	2.44	0.42
1:E:577:GLN:HB3	1:E:662:MET:HB2	2.01	0.42
1:E:684:LEU:HA	1:E:855:GLY:O	2.19	0.42
1:E:698:ALA:CB	1:E:854:VAL:HG21	2.48	0.42
1:F:283:GLY:N	1:F:595:ARG:CZ	2.83	0.42
1:F:421:ALA:O	1:F:424:GLY:N	2.51	0.42
1:F:483:ILE:HD13	1:F:483:ILE:HA	1.92	0.42
1:F:594:MET:O	1:F:598:LEU:CB	2.67	0.42
1:F:1030:LEU:C	1:F:1032:LYS:H	2.27	0.42
1:A:339:GLU:O	1:A:343:THR:CG2	2.68	0.42
1:B:221:GLY:O	1:B:222:LEU:HD23	2.19	0.42
1:B:714:ARG:O	1:B:716:ARG:NH1	2.51	0.42
1:C:36:PRO:HG2	1:C:38:ILE:CG2	2.50	0.42
1:C:563:PHE:O	1:C:923:ASP:HB2	2.20	0.42
1:C:595:ARG:HG2	1:C:595:ARG:HH11	1.84	0.42
1:D:234:ILE:CD1	1:E:753:TRP:CZ3	3.02	0.42
1:D:954:GLN:CG	1:D:955:GLY:N	2.82	0.42
1:E:64:VAL:CG2	1:E:118:LEU:CD2	2.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:120:GLN:O	1:E:124:ARG:HG3	2.19	0.42
1:E:132:ALA:O	1:E:133:VAL:C	2.62	0.42
1:E:1029:THR:O	1:E:1030:LEU:C	2.62	0.42
1:F:310:ILE:HD12	1:F:311:ALA:N	2.34	0.42
1:F:503:GLY:C	1:F:505:HIS:N	2.69	0.42
1:F:525:HIS:O	1:F:529:ARG:HB2	2.19	0.42
1:F:709:ASN:HA	1:F:710:PRO:HD3	1.92	0.42
1:A:189:ASP:CG	1:A:192:LYS:HG2	2.45	0.42
1:A:254:ASN:O	1:A:256:ASP:N	2.53	0.42
1:A:449:LEU:HD11	1:A:478:MET:HE2	2.02	0.42
1:A:704:MET:O	1:A:707:ALA:HB3	2.19	0.42
1:A:931:LEU:C	1:A:933:THR:N	2.76	0.42
1:B:34:GLN:O	1:B:392:THR:HB	2.20	0.42
1:B:48:SER:HA	1:B:87:SER:HA	2.00	0.42
1:B:126:GLY:O	1:B:127:ILE:HB	2.19	0.42
1:B:868:SER:O	1:B:871:GLN:HG3	2.20	0.42
1:C:262:LEU:O	1:C:265:VAL:HG22	2.19	0.42
1:C:445:ILE:HG13	1:C:446:ALA:H	1.85	0.42
1:D:459:PHE:C	1:D:464:GLY:HA3	2.44	0.42
1:D:537:HIS:O	1:D:538:ARG:CB	2.66	0.42
1:D:691:GLY:C	1:D:693:GLU:H	2.27	0.42
1:D:731:ASP:O	1:D:733:GLU:N	2.53	0.42
1:E:99:ASP:HA	1:E:100:PRO:HD3	1.83	0.42
1:E:251:LEU:HD12	1:E:251:LEU:N	2.33	0.42
1:E:350:LEU:O	1:E:354:VAL:HG13	2.20	0.42
1:E:489:THR:OG1	1:E:490:PRO:CD	2.68	0.42
1:E:614:GLY:HA2	1:E:621:GLY:C	2.44	0.42
1:E:761:PHE:CE1	1:E:768:LYS:HB2	2.55	0.42
1:E:943:LEU:HD23	1:E:943:LEU:HA	1.79	0.42
1:F:83:ASN:N	1:F:83:ASN:ND2	2.62	0.42
1:F:283:GLY:N	1:F:595:ARG:NH2	2.66	0.42
1:F:467:TYR:OH	1:F:875:LEU:HD22	2.20	0.42
1:A:186:ILE:HD12	1:A:207:ILE:CD1	2.49	0.42
1:A:449:LEU:HD12	1:A:478:MET:HG3	2.00	0.42
1:A:485:ALA:O	1:A:490:PRO:HD3	2.19	0.42
1:A:489:THR:HB	1:A:490:PRO:CD	2.48	0.42
1:A:530:GLY:O	1:A:534:ILE:HG12	2.18	0.42
1:A:576:VAL:HG21	1:A:591:VAL:HG12	2.00	0.42
1:A:699:ARG:CZ	1:A:824:MET:SD	3.08	0.42
1:A:838:ASP:O	1:A:840:MET:N	2.52	0.42
1:A:1020:VAL:N	1:A:1021:PRO:HD2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:573:PHE:HB2	1:B:666:PHE:CE1	2.55	0.42
1:B:633:PRO:O	1:B:634:TRP:C	2.62	0.42
1:B:903:VAL:O	1:B:904:VAL:C	2.61	0.42
1:C:16:ALA:O	1:C:20:MET:HG3	2.19	0.42
1:C:20:MET:CG	1:C:377:LEU:HD12	2.49	0.42
1:C:197:GLN:HA	1:C:797:MET:SD	2.59	0.42
1:C:244:GLU:CD	1:C:244:GLU:N	2.77	0.42
1:C:372:VAL:HB	1:C:373:PRO:HD3	2.02	0.42
1:C:428:ARG:HG2	1:C:428:ARG:NH1	2.35	0.42
1:C:683:PHE:CE1	1:C:825:GLU:HB2	2.54	0.42
1:C:1011:THR:O	1:C:1015:LEU:HB2	2.20	0.42
1:D:5:PHE:CZ	1:D:487:ILE:HD13	2.55	0.42
1:D:225:VAL:O	1:D:226:LYS:C	2.63	0.42
1:D:235:ILE:O	1:D:235:ILE:HG13	2.20	0.42
1:D:298:ASN:HB3	1:D:301:ASP:HB2	2.01	0.42
1:D:428:ARG:O	1:D:432:ARG:HG3	2.20	0.42
1:D:576:VAL:O	1:D:577:GLN:HG2	2.20	0.42
1:D:915:THR:HG21	1:D:926:PHE:HD1	1.82	0.42
1:E:280:GLN:HE22	1:E:588:GLN:CD	2.27	0.42
1:E:509:LYS:HG3	1:E:517:ASN:HD21	1.84	0.42
1:E:595:ARG:O	1:E:599:LEU:HD13	2.19	0.42
1:E:639:GLY:HA3	1:E:641:GLU:OE2	2.19	0.42
1:E:671:VAL:HG23	1:E:674:LEU:CB	2.45	0.42
1:E:742:LEU:HD12	1:E:742:LEU:O	2.20	0.42
1:E:750:SER:C	1:E:752:ALA:H	2.27	0.42
1:E:971:ARG:O	1:E:975:MET:HG3	2.20	0.42
1:F:49:TYR:CG	1:F:52:ALA:HB2	2.55	0.42
1:F:58:GLN:O	1:F:62:VAL:HG12	2.19	0.42
1:F:198:LEU:HD12	1:F:265:VAL:HG11	2.02	0.42
1:F:404:LEU:HD21	1:F:936:LEU:HD21	2.01	0.42
1:F:612:VAL:CG1	1:F:626:MET:HG3	2.50	0.42
1:F:966:CYS:SG	1:F:1021:PRO:CG	3.07	0.42
1:A:351:VAL:HG22	1:A:979:ALA:O	2.19	0.42
1:A:352:PHE:O	1:A:352:PHE:CG	2.72	0.42
1:A:685:GLN:HB3	1:A:821:VAL:CG1	2.50	0.42
1:A:1030:LEU:C	1:A:1030:LEU:HD23	2.45	0.42
1:B:214:ILE:CG2	1:C:746:ASN:ND2	2.82	0.42
1:B:551:GLY:O	1:B:555:MET:HB2	2.20	0.42
1:B:923:ASP:C	1:B:923:ASP:OD1	2.59	0.42
1:C:343:THR:OG1	1:C:344:LEU:N	2.51	0.42
1:C:693:GLU:O	1:C:696:LEU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1001:ILE:O	1:C:1005:VAL:HG22	2.18	0.42
1:C:1010:VAL:C	1:C:1012:ALA:H	2.27	0.42
1:D:61:VAL:HG12	1:D:62:VAL:N	2.34	0.42
1:D:139:VAL:HG12	1:D:290:ALA:HA	2.02	0.42
1:D:465:VAL:O	1:D:466:ILE:C	2.63	0.42
1:D:537:HIS:O	1:D:538:ARG:HB3	2.19	0.42
1:D:647:LEU:O	1:D:648:ALA:C	2.61	0.42
1:D:943:LEU:HD13	1:D:969:ARG:CZ	2.50	0.42
1:E:177:VAL:HA	1:E:288:GLY:O	2.20	0.42
1:E:631:LEU:HD21	1:E:647:LEU:HD22	2.01	0.42
1:E:835:SER:O	1:E:838:ASP:N	2.52	0.42
1:F:293:LEU:HD23	1:F:297:ALA:HB3	2.02	0.42
1:F:554:TRP:CZ2	1:F:558:ARG:HD3	2.55	0.42
1:F:600:GLU:CG	1:F:601:LYS:N	2.80	0.42
1:F:779:ARG:HG2	1:F:779:ARG:HH11	1.85	0.42
1:A:214:ILE:HG12	1:A:237:LYS:HB2	2.01	0.42
1:A:277:ILE:HD12	1:A:615:PHE:HB2	2.02	0.42
1:A:470:PHE:CZ	1:A:928:VAL:HG13	2.55	0.42
1:A:856:TYR:N	1:A:856:TYR:CD2	2.88	0.42
1:A:1009:MET:O	1:A:1010:VAL:C	2.63	0.42
1:B:155:SER:O	1:B:159:VAL:HG22	2.20	0.42
1:B:185:ARG:CZ	1:B:771:TYR:HB3	2.49	0.42
1:B:253:VAL:HG22	1:B:259:GLN:HG2	2.02	0.42
1:B:375:VAL:HG11	1:B:405:LEU:CD1	2.34	0.42
1:B:402:ILE:HD13	1:B:402:ILE:HA	1.88	0.42
1:B:532:ALA:O	1:B:536:LYS:HG3	2.19	0.42
1:C:399:VAL:C	1:C:401:ALA:N	2.77	0.42
1:C:753:TRP:CD1	1:C:779:ARG:HB2	2.55	0.42
1:C:840:MET:HE2	1:C:862:SER:OG	2.19	0.42
1:D:127:ILE:HG22	1:D:128:ARG:N	2.34	0.42
1:D:208:GLN:HG3	1:D:758:VAL:CG1	2.50	0.42
1:D:362:PHE:H	1:D:362:PHE:HD2	1.68	0.42
1:D:368:PRO:O	1:D:369:THR:C	2.63	0.42
1:D:439:GLN:HG3	1:D:486:LEU:HD22	2.02	0.42
1:D:653:MET:O	1:D:654:HIS:C	2.63	0.42
1:E:330:THR:O	1:E:334:SER:HB2	2.20	0.42
1:F:214:ILE:HG12	1:F:237:LYS:CB	2.49	0.42
1:F:561:THR:OG1	1:F:837:GLY:HA3	2.20	0.42
1:F:732:ASP:HB3	1:F:736:SER:CB	2.46	0.42
1:A:45:VAL:HG12	1:A:88:MET:HE1	2.02	0.42
1:A:683:PHE:CE1	1:A:825:GLU:HG3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:740:VAL:CG1	1:A:745:ILE:HG12	2.50	0.42
1:A:918:ARG:NH2	1:A:999:HIS:HB3	2.35	0.42
1:B:178:PHE:HB3	2:B:2001:LMT:H61	2.02	0.42
1:B:330:THR:N	1:B:331:PRO:CD	2.82	0.42
1:B:395:MET:HE2	1:B:395:MET:HA	2.01	0.42
1:B:478:MET:SD	1:B:478:MET:C	3.03	0.42
1:B:501:GLU:O	1:B:502:LYS:C	2.63	0.42
1:B:776:PRO:C	1:B:778:ALA:H	2.26	0.42
1:B:846:ILE:O	1:B:847:VAL:C	2.62	0.42
1:B:891:TYR:OH	1:B:945:VAL:HB	2.19	0.42
1:C:230:LEU:HG	1:C:231:ASN:N	2.34	0.42
1:C:383:LEU:HD22	1:C:388:PHE:HB3	2.02	0.42
1:C:520:PHE:CZ	1:C:970:LEU:CD1	3.03	0.42
1:C:659:LYS:HE2	1:C:659:LYS:HB2	1.92	0.42
1:D:493:CYS:HA	1:D:497:LEU:HD22	2.01	0.42
1:D:595:ARG:HG2	1:D:609:VAL:HB	2.02	0.42
1:D:631:LEU:HD23	1:D:637:ARG:NH1	2.34	0.42
1:E:198:LEU:N	1:E:797:MET:HE2	2.34	0.42
1:E:261:ARG:HB2	1:E:264:ASP:OD2	2.19	0.42
1:E:414:GLU:C	1:E:414:GLU:OE1	2.63	0.42
1:E:509:LYS:HB2	1:E:514:GLY:HA2	2.01	0.42
1:E:589:VAL:C	1:E:591:VAL:N	2.77	0.42
1:E:951:LEU:HD13	1:E:964:GLU:HB3	2.01	0.42
1:F:410:ILE:HD13	1:F:975:MET:HE3	2.02	0.42
1:F:456:MET:HE2	1:F:467:TYR:O	2.19	0.42
1:A:33:ASN:ND2	1:A:391:ASN:HB3	2.33	0.41
1:A:40:PRO:HD3	1:A:864:GLU:CD	2.45	0.41
1:A:364:ALA:O	1:A:368:PRO:HD3	2.20	0.41
1:A:791:ARG:HE	1:A:797:MET:CE	2.32	0.41
1:B:157:TYR:O	1:B:160:SER:N	2.50	0.41
1:B:180:SER:HB3	2:B:2001:LMT:H4'	2.01	0.41
1:B:830:PRO:HB3	1:B:839:ALA:HB2	2.01	0.41
1:B:880:LEU:O	1:B:883:VAL:HG22	2.20	0.41
1:C:330:THR:N	1:C:331:PRO:CD	2.82	0.41
1:C:790:VAL:O	1:C:797:MET:HE2	2.19	0.41
1:C:971:ARG:N	1:C:972:PRO:CD	2.84	0.41
1:D:218:GLN:CA	1:D:234:ILE:HG13	2.49	0.41
1:D:438:ILE:HG13	1:D:439:GLN:N	2.34	0.41
1:D:780:MET:CE	1:F:220:GLY:HA2	2.50	0.41
1:D:946:GLU:O	1:D:949:LYS:HB3	2.20	0.41
1:E:277:ILE:HD12	1:E:277:ILE:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:679:GLY:HA2	1:E:836:SER:OG	2.20	0.41
1:E:708:GLN:O	1:E:709:ASN:C	2.63	0.41
1:F:574:ALA:HB3	1:F:594:MET:HE1	2.02	0.41
1:A:372:VAL:HB	1:A:373:PRO:HD3	2.01	0.41
1:A:792:ASN:ND2	1:A:796:GLU:HB2	2.25	0.41
1:B:178:PHE:CG	2:B:2001:LMT:H61	2.55	0.41
1:B:672:LEU:O	1:B:674:LEU:N	2.54	0.41
1:B:685:GLN:CD	1:B:687:GLN:HE22	2.27	0.41
1:B:726:TYR:OH	1:B:806:GLY:HA3	2.20	0.41
1:B:740:VAL:CG2	1:B:745:ILE:HD11	2.42	0.41
1:B:909:ILE:CG2	1:B:910:GLY:N	2.83	0.41
1:C:876:TYR:OH	1:C:930:LEU:HD12	2.19	0.41
1:C:888:ALA:HB2	1:C:897:PRO:HG3	2.02	0.41
1:C:926:PHE:O	1:C:929:GLY:N	2.53	0.41
1:D:13:TRP:O	1:D:16:ALA:HB3	2.19	0.41
1:D:139:VAL:CG2	1:D:327:TYR:H	2.33	0.41
1:D:146:ASP:C	1:D:148:SER:H	2.29	0.41
1:D:273:GLN:CG	1:D:771:TYR:HE2	2.32	0.41
1:D:469:GLN:HA	1:D:472:ILE:CD1	2.50	0.41
1:E:64:VAL:HG22	1:E:118:LEU:HD23	2.00	0.41
1:E:527:TYR:CE1	1:E:970:LEU:HD23	2.55	0.41
1:E:794:LYS:C	1:E:796:GLU:N	2.77	0.41
1:F:289:ILE:O	1:F:289:ILE:HG12	2.17	0.41
1:F:498:LYS:H	1:F:498:LYS:CD	2.33	0.41
1:F:599:LEU:HD23	1:F:599:LEU:O	2.20	0.41
1:F:685:GLN:NE2	1:F:857:SER:CB	2.81	0.41
1:A:134:LYS:O	1:A:134:LYS:HD3	2.20	0.41
1:A:394:THR:HG23	1:A:469:GLN:HB3	2.02	0.41
1:A:649:LYS:CE	1:A:652:GLN:HG2	2.50	0.41
1:A:716:ARG:HD3	1:A:827:LEU:O	2.20	0.41
1:A:861:LEU:N	1:A:861:LEU:CD2	2.83	0.41
1:A:971:ARG:N	1:A:972:PRO:HD2	2.36	0.41
1:B:611:THR:HG22	1:B:627:ALA:CB	2.50	0.41
1:B:829:GLU:CB	1:B:830:PRO:CD	2.96	0.41
1:C:332:VAL:HG11	1:C:569:GLN:HG2	2.02	0.41
1:C:418:ARG:O	1:C:421:ALA:HB3	2.20	0.41
1:D:357:LEU:O	1:D:357:LEU:HD12	2.20	0.41
1:D:459:PHE:HD1	1:D:871:GLN:CD	2.28	0.41
1:D:569:GLN:HA	1:D:634:TRP:CZ2	2.55	0.41
1:E:283:GLY:O	1:E:284:SER:C	2.64	0.41
1:E:527:TYR:CE2	1:E:1017:ILE:HB	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:538:ARG:O	1:E:539:ALA:C	2.64	0.41
1:E:904:VAL:HB	1:E:905:PRO:HD3	2.02	0.41
1:F:981:ILE:HG23	1:F:1006:ILE:HD12	2.01	0.41
1:A:83:ASN:ND2	1:A:83:ASN:N	2.68	0.41
1:A:367:ILE:HD11	1:A:497:LEU:HD13	2.01	0.41
1:A:714:ARG:O	1:A:716:ARG:N	2.52	0.41
1:A:865:GLU:C	1:A:867:LEU:H	2.27	0.41
1:B:254:ASN:N	1:B:258:SER:O	2.52	0.41
1:B:486:LEU:HD12	1:B:486:LEU:HA	1.82	0.41
1:B:694:VAL:O	1:B:695:LEU:C	2.62	0.41
1:C:53:SER:OG	1:C:55:GLU:HG2	2.20	0.41
1:C:344:LEU:HA	1:C:399:VAL:HG22	2.01	0.41
1:C:447:MET:HE1	1:C:886:CYS:O	2.21	0.41
1:C:789:TYR:CE2	1:C:799:PRO:HG3	2.55	0.41
1:D:219:LEU:HD13	1:D:232:ALA:C	2.45	0.41
1:D:699:ARG:O	1:D:700:ASN:C	2.62	0.41
1:E:906:LEU:HG	1:E:1015:LEU:HD13	2.02	0.41
1:E:946:GLU:O	1:E:950:GLU:HG3	2.19	0.41
1:F:185:ARG:HH11	1:F:185:ARG:CA	2.34	0.41
1:F:273:GLN:NE2	1:F:769:ARG:HE	2.19	0.41
1:F:407:ASP:O	1:F:410:ILE:HG13	2.20	0.41
1:F:544:ILE:O	1:F:547:VAL:N	2.53	0.41
1:F:654:HIS:C	1:F:656:PHE:H	2.28	0.41
1:F:669:PRO:CG	1:F:861:LEU:HD11	2.50	0.41
1:F:792:ASN:HB3	1:F:796:GLU:N	2.36	0.41
1:F:793:ASP:C	1:F:795:GLY:H	2.28	0.41
1:F:844:GLU:OE2	1:F:866:ARG:NH2	2.52	0.41
1:F:958:ILE:HG23	1:F:1024:TYR:HE2	1.86	0.41
1:A:164:ASP:HB2	1:A:165:PRO:CD	2.48	0.41
1:A:352:PHE:CD1	1:A:365:THR:HG22	2.54	0.41
1:A:701:LYS:HD3	1:A:851:PRO:HD3	2.02	0.41
1:A:810:TYR:CG	1:D:701:LYS:HE3	2.56	0.41
1:B:157:TYR:CD2	1:B:321:MET:HE1	2.56	0.41
1:B:158:ILE:O	1:B:163:GLN:N	2.54	0.41
1:B:249:ILE:CD1	1:B:262:LEU:HD12	2.48	0.41
1:B:847:VAL:HG13	1:B:850:LEU:HD12	2.02	0.41
1:C:462:SER:OG	1:C:864:GLU:CG	2.69	0.41
1:C:655:PHE:HD1	1:C:658:PHE:HB3	1.83	0.41
1:D:24:GLY:O	1:D:28:LEU:HG	2.21	0.41
1:D:324:VAL:CG2	1:D:325:TYR:N	2.82	0.41
1:D:404:LEU:HD21	1:D:936:LEU:HG	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:591:VAL:O	1:D:595:ARG:HB2	2.20	0.41
1:D:664:PHE:HD2	1:D:666:PHE:CD2	2.37	0.41
1:D:789:TYR:HA	1:D:799:PRO:HA	2.02	0.41
1:D:907:GLY:O	1:D:1008:GLY:HA2	2.20	0.41
1:E:53:SER:N	1:E:56:THR:OG1	2.54	0.41
1:E:197:GLN:HE21	1:E:252:LYS:HZ3	1.66	0.41
1:E:713:GLN:HG2	1:E:714:ARG:HG3	2.03	0.41
1:E:739:GLY:HA3	1:E:793:ASP:CG	2.45	0.41
1:E:952:HIS:CE1	1:E:958:ILE:HD13	2.55	0.41
1:F:47:VAL:HG23	1:F:88:MET:HE2	2.03	0.41
1:F:298:ASN:O	1:F:301:ASP:N	2.53	0.41
1:F:318:PRO:O	1:F:319:GLN:C	2.64	0.41
1:F:410:ILE:CG1	1:F:976:THR:HG22	2.47	0.41
1:F:501:GLU:O	1:F:504:ASP:HB2	2.20	0.41
1:F:595:ARG:C	1:F:595:ARG:HD3	2.45	0.41
1:F:980:PHE:O	1:F:983:GLY:N	2.53	0.41
1:A:164:ASP:O	1:A:167:SER:N	2.54	0.41
1:A:618:ALA:O	1:A:720:MET:HE3	2.20	0.41
1:B:157:TYR:CD1	1:B:321:MET:HE1	2.56	0.41
1:B:164:ASP:N	1:B:165:PRO:HD2	2.36	0.41
1:B:230:LEU:HD12	1:B:230:LEU:N	2.35	0.41
1:B:440:GLY:O	1:B:441:ALA:C	2.62	0.41
1:B:559:ILE:CD1	1:B:921:SER:HA	2.50	0.41
1:B:592:ASP:O	1:B:594:MET:N	2.53	0.41
1:C:47:VAL:CG1	1:C:122:VAL:HG13	2.50	0.41
1:C:133:VAL:O	1:C:292:LYS:HD3	2.21	0.41
1:C:258:SER:O	1:C:259:GLN:HG3	2.21	0.41
1:C:573:PHE:O	1:C:665:ALA:HA	2.20	0.41
1:C:791:ARG:HA	1:C:797:MET:CE	2.51	0.41
1:D:183:SER:HB2	1:D:769:ARG:C	2.45	0.41
1:D:259:GLN:NE2	1:E:733:GLU:OE1	2.43	0.41
1:D:326:PRO:O	1:D:630:MET:HB2	2.20	0.41
1:D:356:TYR:CE1	1:D:513:PHE:HZ	2.39	0.41
1:E:249:ILE:HD12	1:E:249:ILE:O	2.20	0.41
1:E:312:ASN:N	1:E:312:ASN:HD22	2.17	0.41
1:E:544:ILE:O	1:E:544:ILE:HD13	2.21	0.41
1:E:714:ARG:HD2	1:E:829:GLU:OE2	2.20	0.41
1:E:949:LYS:O	1:E:953:GLU:HB2	2.20	0.41
1:A:193:LEU:CD2	1:A:198:LEU:O	2.68	0.41
1:A:572:LEU:HD12	1:A:573:PHE:H	1.84	0.41
1:A:896:ILE:N	1:A:897:PRO:CD	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:13:TRP:O	1:B:17:LEU:HB2	2.20	0.41
1:B:21:LEU:HD11	1:B:25:LEU:HD11	2.02	0.41
1:B:188:LEU:CD2	1:B:772:LEU:HD11	2.50	0.41
1:B:987:LEU:O	1:B:999:HIS:HD2	2.03	0.41
1:C:237:LYS:C	1:C:238:THR:CG2	2.93	0.41
1:C:268:VAL:O	1:C:268:VAL:HG12	2.21	0.41
1:C:395:MET:O	1:C:396:PHE:C	2.63	0.41
1:C:575:GLN:HB3	1:C:664:PHE:HB2	2.02	0.41
1:C:616:ASN:ND2	1:C:618:ALA:N	2.68	0.41
1:C:659:LYS:HD3	1:C:659:LYS:C	2.46	0.41
1:C:705:LEU:O	1:C:709:ASN:HB2	2.20	0.41
1:D:4:PHE:O	1:D:8:ARG:NH1	2.52	0.41
1:D:57:VAL:CG1	1:D:82:SER:HB3	2.43	0.41
1:D:359:LEU:O	1:D:360:GLN:C	2.63	0.41
1:D:527:TYR:HE2	1:D:1017:ILE:HG13	1.84	0.41
1:D:745:ILE:O	1:D:749:VAL:CG2	2.55	0.41
1:D:766:ARG:CG	1:D:767:VAL:N	2.84	0.41
1:D:902:LEU:C	1:D:904:VAL:N	2.78	0.41
1:D:1027:VAL:HG23	1:D:1028:SER:N	2.36	0.41
1:E:72:ILE:HG13	1:E:75:LEU:HB2	2.03	0.41
1:E:117:LEU:N	1:E:117:LEU:CD1	2.84	0.41
1:E:346:GLU:O	1:E:347:ALA:C	2.63	0.41
1:E:534:ILE:CD1	1:E:1018:PHE:HB3	2.51	0.41
1:E:699:ARG:HD3	1:E:826:ILE:HD11	2.02	0.41
1:E:732:ASP:O	1:E:735:ALA:HB3	2.20	0.41
1:F:46:GLN:HG2	1:F:89:THR:HG23	2.02	0.41
1:F:463:THR:HG22	1:F:467:TYR:CZ	2.55	0.41
1:F:520:PHE:HA	1:F:523:THR:CG2	2.48	0.41
1:F:572:LEU:HD23	1:F:629:ILE:HG13	2.02	0.41
1:F:612:VAL:HG12	1:F:626:MET:HG3	2.01	0.41
1:F:938:ALA:O	1:F:939:LYS:C	2.62	0.41
1:F:981:ILE:O	1:F:982:LEU:C	2.63	0.41
1:F:1030:LEU:C	1:F:1030:LEU:HD13	2.46	0.41
2:F:2002:LMT:O5B	2:F:2002:LMT:C3'	2.53	0.41
1:A:228:GLN:CG	1:B:780:MET:CE	2.98	0.41
1:A:618:ALA:C	1:A:720:MET:HE3	2.45	0.41
1:A:958:ILE:CG1	1:A:959:VAL:N	2.83	0.41
1:B:314:GLU:OE2	1:B:323:VAL:CG2	2.69	0.41
1:B:407:ASP:O	1:B:411:VAL:HG13	2.20	0.41
1:B:530:GLY:O	1:B:533:SER:HB3	2.19	0.41
1:B:594:MET:O	1:B:597:TYR:HB3	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:52:ALA:HB1	1:C:56:THR:CG2	2.51	0.41
1:C:166:LEU:HA	1:C:169:THR:OG1	2.20	0.41
1:C:978:LEU:O	1:C:981:ILE:HB	2.21	0.41
1:C:1002:GLY:O	1:C:1006:ILE:HG12	2.21	0.41
1:D:634:TRP:C	1:D:636:GLU:N	2.78	0.41
1:D:780:MET:O	1:F:230:LEU:HD23	2.21	0.41
1:D:906:LEU:CD1	1:D:1016:ALA:HB2	2.51	0.41
1:E:120:GLN:OE1	1:E:124:ARG:HD2	2.20	0.41
1:E:298:ASN:C	1:E:298:ASN:HD22	2.29	0.41
1:E:508:HIS:O	1:E:509:LYS:C	2.64	0.41
1:E:847:VAL:O	1:E:850:LEU:HB2	2.21	0.41
1:F:563:PHE:CD2	1:F:564:LEU:CD2	3.04	0.41
1:F:724:PRO:HA	1:F:810:TYR:HB3	2.02	0.41
1:A:548:ILE:HG23	1:A:909:ILE:HD13	2.02	0.41
1:A:650:ARG:O	1:A:650:ARG:HG2	2.20	0.41
1:A:789:TYR:CD1	1:A:797:MET:HB3	2.56	0.41
1:A:856:TYR:N	1:A:856:TYR:HD2	2.19	0.41
1:B:355:MET:HE1	1:B:413:VAL:HB	2.02	0.41
1:B:577:GLN:NE2	1:B:623:SER:O	2.54	0.41
1:B:634:TRP:CE3	1:B:993:ALA:HB2	2.56	0.41
1:B:723:GLU:HB2	1:B:724:PRO:HD2	2.03	0.41
1:B:746:ASN:O	1:B:749:VAL:HG12	2.21	0.41
1:C:138:MET:HB3	1:C:328:ASP:HA	2.02	0.41
1:C:157:TYR:CE2	1:C:162:ILE:HD11	2.56	0.41
1:C:241:GLN:NE2	1:C:762:ILE:CD1	2.84	0.41
1:C:578:THR:O	1:C:623:SER:HB2	2.21	0.41
1:C:715:VAL:CG1	1:C:716:ARG:N	2.84	0.41
1:C:792:ASN:ND2	1:C:796:GLU:HB2	2.35	0.41
1:C:851:PRO:O	1:C:852:LYS:C	2.63	0.41
1:C:881:LEU:O	1:C:885:LEU:HG	2.20	0.41
1:C:986:PRO:O	1:C:987:LEU:C	2.62	0.41
1:D:256:ASP:O	1:D:256:ASP:OD1	2.38	0.41
1:D:317:MET:HE3	1:D:317:MET:HB2	1.89	0.41
1:D:570:GLY:O	1:D:630:MET:CE	2.69	0.41
1:D:586:ARG:HG3	1:D:586:ARG:NH1	2.36	0.41
1:D:612:VAL:HG13	1:D:626:MET:CG	2.51	0.41
1:D:806:GLY:O	1:D:807:LYS:HB2	2.21	0.41
1:D:895:SER:OG	1:D:896:ILE:N	2.54	0.41
1:E:10:ILE:HD12	1:F:894:TRP:CE2	2.56	0.41
1:E:15:ILE:HD13	1:E:15:ILE:N	2.35	0.41
1:E:62:VAL:HG21	1:E:82:SER:OG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:259:GLN:HG3	1:E:261:ARG:HH11	1.86	0.41
1:E:393:LEU:CD2	1:E:466:ILE:HG23	2.51	0.41
1:E:541:TYR:HA	1:E:544:ILE:CG2	2.42	0.41
1:E:895:SER:C	1:E:897:PRO:CD	2.93	0.41
1:F:261:ARG:HB2	1:F:263:LYS:HG2	2.02	0.41
1:F:273:GLN:NE2	1:F:769:ARG:NH2	2.66	0.41
1:F:303:ALA:C	1:F:306:ILE:HG22	2.46	0.41
1:F:379:THR:HG23	1:F:398:MET:HE2	2.02	0.41
1:F:453:PHE:O	1:F:456:MET:HG2	2.20	0.41
1:F:519:MET:SD	1:F:519:MET:C	3.04	0.41
1:F:754:GLY:O	1:F:755:SER:O	2.39	0.41
1:F:791:ARG:HG2	1:F:791:ARG:HH11	1.85	0.41
1:A:438:ILE:HG13	1:A:439:GLN:N	2.34	0.41
1:A:445:ILE:CD1	1:A:446:ALA:N	2.78	0.41
1:A:641:GLU:HG3	1:A:650:ARG:HH12	1.86	0.41
1:A:716:ARG:HB2	1:A:717:PRO:HD2	2.03	0.41
1:A:831:ALA:HB3	1:A:834:LEU:CG	2.51	0.41
1:A:872:ALA:N	1:A:873:PRO:CD	2.84	0.41
1:A:902:LEU:HD13	1:A:1023:PHE:CD1	2.56	0.41
1:A:920:LEU:HD12	1:A:1003:THR:OG1	2.21	0.41
1:B:250:LEU:HD23	1:B:261:ARG:HG3	2.03	0.41
1:B:460:GLY:N	1:B:871:GLN:HE22	1.96	0.41
1:B:541:TYR:CB	1:B:1022:LEU:HD11	2.51	0.41
1:B:595:ARG:NH1	1:B:595:ARG:CG	2.77	0.41
1:B:977:SER:O	1:B:981:ILE:HG12	2.21	0.41
1:C:32:VAL:HA	1:C:390:ILE:O	2.21	0.41
1:C:366:LEU:O	1:C:370:ILE:HG12	2.20	0.41
1:C:792:ASN:O	1:C:793:ASP:C	2.63	0.41
1:C:981:ILE:HD12	1:C:1010:VAL:HG23	2.03	0.41
1:D:372:VAL:HA	1:D:405:LEU:CD2	2.44	0.41
1:D:492:LEU:CD2	1:D:496:MET:HE3	2.51	0.41
1:D:730:ILE:HD11	1:F:237:LYS:HD2	2.02	0.41
1:D:872:ALA:HB2	1:D:927:GLN:OE1	2.21	0.41
1:E:104:GLN:NE2	1:F:109:ASN:HB3	2.36	0.41
1:E:139:VAL:HG23	1:E:326:PRO:HG2	2.02	0.41
1:E:228:GLN:HA	1:E:228:GLN:NE2	2.36	0.41
1:E:228:GLN:O	1:E:229:GLN:HB2	2.21	0.41
1:E:353:LEU:O	1:E:355:MET:N	2.54	0.41
1:E:680:PHE:CA	1:E:862:SER:OG	2.65	0.41
1:F:270:LEU:HD12	1:F:270:LEU:HA	1.90	0.41
1:F:938:ALA:O	1:F:939:LYS:O	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:971:ARG:HG3	1:F:971:ARG:NH1	2.35	0.41
1:F:978:LEU:O	1:F:979:ALA:C	2.64	0.41
1:A:52:ALA:HB1	1:A:56:THR:HB	2.02	0.40
1:A:73:ASP:H	1:A:106:GLN:NE2	2.19	0.40
1:A:420:MET:HE1	1:A:499:PRO:HG2	2.02	0.40
1:A:450:SER:O	1:A:452:VAL:N	2.54	0.40
1:B:298:ASN:O	1:B:299:ALA:C	2.64	0.40
1:B:394:THR:HA	1:B:473:THR:HG21	2.04	0.40
1:B:564:LEU:HD12	1:B:671:VAL:HG23	2.03	0.40
1:B:716:ARG:HG2	1:B:716:ARG:O	2.21	0.40
1:B:789:TYR:CZ	1:B:799:PRO:HB3	2.56	0.40
1:B:789:TYR:N	1:B:789:TYR:CD2	2.88	0.40
1:B:846:ILE:C	1:B:848:LYS:N	2.77	0.40
1:C:47:VAL:HG11	1:C:122:VAL:CG1	2.51	0.40
1:C:545:TYR:CE1	1:C:1023:PHE:CZ	3.07	0.40
1:C:801:ASN:C	1:C:803:PHE:N	2.78	0.40
1:C:823:ALA:O	1:C:824:MET:HG2	2.20	0.40
1:D:317:MET:HE1	1:D:323:VAL:CG2	2.51	0.40
1:D:420:MET:HE2	1:D:420:MET:HB2	1.86	0.40
1:D:600:GLU:C	1:D:602:GLU:H	2.29	0.40
1:D:958:ILE:CD1	1:D:959:VAL:H	2.30	0.40
1:E:53:SER:OG	1:E:56:THR:HG23	2.21	0.40
1:E:757:TYR:HB2	1:E:771:TYR:CE1	2.56	0.40
1:F:151:LYS:CG	1:F:285:PRO:HB3	2.50	0.40
1:F:203:VAL:O	1:F:207:ILE:HG12	2.21	0.40
1:F:412:VAL:HG11	1:F:489:THR:HG22	2.02	0.40
1:F:449:LEU:HD23	1:F:449:LEU:HA	1.93	0.40
1:F:463:THR:HG23	1:F:924:VAL:HG12	2.03	0.40
1:F:656:PHE:CD1	1:F:656:PHE:C	2.99	0.40
1:F:678:THR:HG23	1:F:679:GLY:N	2.36	0.40
1:F:681:ASP:OD2	1:F:859:THR:HG23	2.21	0.40
1:F:694:VAL:O	1:F:697:GLN:HB2	2.20	0.40
1:F:898:PHE:O	1:F:899:SER:C	2.62	0.40
1:A:133:VAL:HG12	1:A:134:LYS:N	2.36	0.40
1:A:404:LEU:HD22	1:A:936:LEU:HD23	2.04	0.40
1:A:441:ALA:O	1:A:442:LEU:C	2.64	0.40
1:A:660:ASP:O	1:A:661:ALA:HB2	2.21	0.40
1:A:727:LYS:HB2	1:C:235:ILE:HD12	2.02	0.40
1:A:840:MET:HB3	1:A:866:ARG:HH22	1.85	0.40
1:B:163:GLN:C	1:B:165:PRO:HD2	2.46	0.40
1:B:652:GLN:O	1:B:653:MET:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:45:VAL:O	1:C:88:MET:CE	2.69	0.40
1:C:76:ARG:HD3	1:C:863:TYR:CE2	2.56	0.40
1:C:207:ILE:C	1:C:209:ALA:H	2.30	0.40
1:C:374:VAL:CG1	1:C:375:VAL:N	2.83	0.40
1:C:456:MET:HE3	1:C:471:SER:OG	2.21	0.40
1:D:32:VAL:HG13	1:D:300:LEU:HD12	2.04	0.40
1:D:178:PHE:CD1	1:D:612:VAL:HG21	2.57	0.40
1:D:362:PHE:CG	1:D:363:ARG:N	2.89	0.40
1:D:544:ILE:HD13	1:D:544:ILE:C	2.46	0.40
1:D:605:SER:O	1:D:631:LEU:HG	2.21	0.40
1:E:61:VAL:O	1:E:65:ILE:HG12	2.21	0.40
1:E:62:VAL:HG11	1:E:80:SER:HB3	2.04	0.40
1:E:158:ILE:HD13	1:E:162:ILE:HG13	2.02	0.40
1:E:556:PHE:C	1:E:558:ARG:N	2.78	0.40
1:E:634:TRP:CZ3	1:E:993:ALA:HB2	2.56	0.40
1:E:643:SER:O	1:E:646:GLU:N	2.54	0.40
1:E:674:LEU:HD21	1:E:861:LEU:HD11	2.04	0.40
1:F:376:LEU:HA	1:F:376:LEU:HD12	1.89	0.40
1:F:410:ILE:HD13	1:F:975:MET:HE2	2.03	0.40
1:F:410:ILE:HD11	1:F:976:THR:CG2	2.51	0.40
1:F:563:PHE:O	1:F:924:VAL:HG22	2.22	0.40
1:F:844:GLU:HA	1:F:847:VAL:HG12	2.04	0.40
1:A:538:ARG:HG3	1:A:1022:LEU:CD2	2.48	0.40
1:A:632:LYS:O	1:A:637:ARG:NH1	2.51	0.40
1:A:779:ARG:NH2	1:C:223:PRO:O	2.39	0.40
1:B:73:ASP:OD1	1:B:106:GLN:NE2	2.55	0.40
1:B:126:GLY:O	1:B:127:ILE:CB	2.70	0.40
1:B:137:LEU:HD21	1:B:302:THR:OG1	2.21	0.40
1:B:538:ARG:O	1:B:539:ALA:C	2.65	0.40
1:B:658:PHE:C	1:B:660:ASP:H	2.28	0.40
1:B:692:HIS:O	1:B:695:LEU:HB3	2.21	0.40
1:C:391:ASN:HD21	1:C:394:THR:HB	1.86	0.40
1:C:683:PHE:O	1:C:856:TYR:HA	2.21	0.40
1:C:912:LEU:CD2	1:C:926:PHE:HZ	2.26	0.40
1:C:929:GLY:CA	1:C:932:THR:HG23	2.51	0.40
1:D:84:SER:C	1:D:86:GLY:H	2.29	0.40
1:D:112:GLN:HG3	1:E:112:GLN:OE1	2.21	0.40
1:D:254:ASN:N	1:D:255:PRO:HD3	2.35	0.40
1:D:441:ALA:C	1:D:443:VAL:N	2.79	0.40
1:D:616:ASN:C	1:D:618:ALA:N	2.80	0.40
1:E:134:LYS:HZ2	1:E:134:LYS:N	2.12	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:517:ASN:O	1:E:521:LEU:HB2	2.20	0.40
1:E:544:ILE:HD13	1:E:544:ILE:C	2.46	0.40
1:E:555:MET:HE3	1:E:913:LEU:HD11	2.03	0.40
1:E:637:ARG:N	1:E:638:PRO:CD	2.83	0.40
1:E:646:GLU:OE1	1:E:646:GLU:HA	2.21	0.40
1:F:214:ILE:CG1	1:F:237:LYS:H	2.34	0.40
1:F:847:VAL:HG21	1:F:856:TYR:CD1	2.56	0.40
1:A:189:ASP:OD2	1:A:192:LYS:HG2	2.22	0.40
1:A:339:GLU:O	1:A:343:THR:HG23	2.22	0.40
1:A:453:PHE:O	1:A:456:MET:HB3	2.21	0.40
1:A:553:ILE:O	1:A:553:ILE:HG22	2.21	0.40
1:A:595:ARG:O	1:A:595:ARG:HD2	2.21	0.40
1:A:633:PRO:HG2	1:A:636:GLU:HB2	2.04	0.40
1:A:910:GLY:CA	1:A:1011:THR:HG21	2.51	0.40
1:A:958:ILE:HG12	1:A:959:VAL:HG23	2.04	0.40
1:B:254:ASN:HB2	1:B:258:SER:OG	2.22	0.40
1:B:616:ASN:HD22	1:B:619:GLY:H	1.69	0.40
1:B:683:PHE:CZ	1:B:825:GLU:HB2	2.56	0.40
1:C:13:TRP:O	1:C:16:ALA:HB3	2.21	0.40
1:C:58:GLN:HB2	1:C:82:SER:OG	2.22	0.40
1:C:350:LEU:O	1:C:354:VAL:HG23	2.21	0.40
1:C:641:GLU:HA	1:C:650:ARG:HH12	1.87	0.40
1:C:653:MET:C	1:C:655:PHE:N	2.79	0.40
1:C:720:MET:HE2	1:C:813:PRO:CG	2.52	0.40
1:C:903:VAL:HG12	1:C:903:VAL:O	2.21	0.40
1:C:1024:TYR:O	1:C:1027:VAL:HG22	2.21	0.40
1:D:13:TRP:CZ3	2:D:2003:LMT:H42	2.56	0.40
1:D:241:GLN:H	1:D:245:GLN:NE2	2.20	0.40
1:D:251:LEU:HD12	1:D:260:VAL:O	2.22	0.40
1:D:280:GLN:HB2	1:D:284:SER:O	2.22	0.40
1:D:449:LEU:HD12	1:D:478:MET:HG3	2.04	0.40
1:D:631:LEU:N	1:D:631:LEU:HD12	2.35	0.40
1:D:762:ILE:HG22	1:D:763:ASP:N	2.35	0.40
1:D:1030:LEU:C	1:D:1031:PHE:CD2	3.00	0.40
1:E:65:ILE:HG21	1:E:90:ILE:HD12	2.03	0.40
1:E:362:PHE:O	1:E:365:THR:HG22	2.21	0.40
1:E:543:LEU:O	1:E:547:VAL:HG23	2.21	0.40
1:E:632:LYS:O	1:E:633:PRO:C	2.64	0.40
1:E:761:PHE:O	1:E:761:PHE:CG	2.74	0.40
1:E:859:THR:HG23	1:E:860:GLY:N	2.36	0.40
1:F:38:ILE:HD13	1:F:39:ALA:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:520:PHE:CA	1:F:523:THR:HG22	2.52	0.40
1:F:664:PHE:CE2	1:F:716:ARG:HB3	2.57	0.40
1:A:16:ALA:O	1:A:17:LEU:C	2.64	0.40
1:A:50:PRO:HG3	1:A:125:GLN:HE22	1.86	0.40
1:A:488:LEU:HD22	1:A:492:LEU:HD11	2.02	0.40
1:A:614:GLY:HA2	1:A:621:GLY:O	2.21	0.40
1:A:633:PRO:HG2	1:A:636:GLU:CG	2.51	0.40
1:B:70:ASN:ND2	1:B:70:ASN:N	2.68	0.40
1:B:142:VAL:CG1	1:B:321:MET:HG3	2.51	0.40
1:B:597:TYR:CD2	1:B:598:LEU:HD22	2.55	0.40
1:B:632:LYS:HG2	1:B:637:ARG:HD3	2.03	0.40
1:B:907:GLY:CA	1:B:1012:ALA:HB2	2.51	0.40
1:C:2:SER:O	1:C:3:LYS:C	2.65	0.40
1:C:211:ASN:OD1	1:C:240:LEU:HB2	2.21	0.40
1:C:219:LEU:CD1	1:C:234:ILE:HD11	2.51	0.40
1:C:247:GLU:C	1:C:248:ASN:HD22	2.29	0.40
1:C:359:LEU:CD1	1:C:365:THR:HA	2.51	0.40
1:C:361:ASN:O	1:C:363:ARG:N	2.55	0.40
1:C:583:SER:C	1:C:585:GLU:N	2.80	0.40
1:C:587:THR:O	1:C:591:VAL:HG23	2.21	0.40
1:C:640:GLY:C	1:C:642:ASN:H	2.29	0.40
1:C:692:HIS:HE1	1:C:696:LEU:HD21	1.87	0.40
1:C:798:VAL:HA	1:C:799:PRO:HD3	1.95	0.40
1:D:64:VAL:HG23	1:D:118:LEU:HD11	2.02	0.40
1:D:750:SER:O	1:D:755:SER:N	2.53	0.40
1:D:835:SER:O	1:D:838:ASP:HB2	2.22	0.40
1:E:127:ILE:N	1:E:127:ILE:CD1	2.83	0.40
1:E:164:ASP:CB	1:E:165:PRO:HD3	2.50	0.40
1:E:184:MET:HB2	1:E:761:PHE:CZ	2.57	0.40
1:E:288:GLY:C	1:E:289:ILE:CG1	2.94	0.40
1:E:407:ASP:O	1:E:411:VAL:HG13	2.21	0.40
1:E:549:VAL:O	1:E:550:ALA:C	2.63	0.40
1:E:704:MET:C	1:E:706:ALA:N	2.78	0.40
1:E:997:SER:O	1:E:1000:ALA:N	2.50	0.40
1:E:1020:VAL:HB	1:E:1021:PRO:CD	2.52	0.40
1:F:214:ILE:CD1	1:F:237:LYS:H	2.32	0.40
1:F:240:LEU:HG	1:F:245:GLN:NE2	2.33	0.40
1:F:364:ALA:O	1:F:368:PRO:CD	2.69	0.40
1:F:402:ILE:HD12	1:F:403:GLY:H	1.87	0.40
1:F:457:ALA:CB	1:F:468:ARG:HG2	2.51	0.40
1:F:544:ILE:O	1:F:548:ILE:HG12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:809:GLU:O	1:F:810:TYR:C	2.64	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	1011/1046 (97%)	834 (82%)	139 (14%)	38 (4%)	2	5
1	B	1028/1046 (98%)	878 (85%)	123 (12%)	27 (3%)	4	10
1	C	1028/1046 (98%)	814 (79%)	161 (16%)	53 (5%)	1	2
1	D	1016/1046 (97%)	815 (80%)	156 (15%)	45 (4%)	2	4
1	E	1028/1046 (98%)	839 (82%)	147 (14%)	42 (4%)	2	4
1	F	1031/1046 (99%)	837 (81%)	133 (13%)	61 (6%)	1	2
All	All	6142/6276 (98%)	5017 (82%)	859 (14%)	266 (4%)	2	4

All (266) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	326	PRO
1	A	603	SER
1	A	673	GLU
1	A	714	ARG
1	A	740	VAL
1	A	872	ALA
1	B	249	ILE
1	B	438	ILE
1	B	741	SER
1	C	125	GLN
1	C	258	SER

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Mol	Chain	Res	Type
1	C	276	SER
1	C	361	ASN
1	C	501	GLU
1	C	633	PRO
1	C	661	ALA
1	C	737	ALA
1	C	796	GLU
1	C	803	PHE
1	C	958	ILE
1	C	1024	TYR
1	D	196	TYR
1	D	219	LEU
1	D	239	ARG
1	D	441	ALA
1	D	603	SER
1	D	654	HIS
1	D	673	GLU
1	D	714	ARG
1	D	872	ALA
1	D	953	GLU
1	D	995	SER
1	E	238	THR
1	E	582	SER
1	E	618	ALA
1	E	623	SER
1	E	690	VAL
1	E	714	ARG
1	F	319	GLN
1	F	361	ASN
1	F	422	GLU
1	F	501	GLU
1	F	504	ASP
1	F	505	HIS
1	F	538	ARG
1	F	636	GLU
1	F	660	ASP
1	F	661	ALA
1	F	687	GLN
1	F	727	LYS
1	F	755	SER
1	F	796	GLU
1	F	913	LEU

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Mol	Chain	Res	Type
1	F	939	LYS
1	A	713	GLN
1	A	715	VAL
1	A	801	ASN
1	A	834	LEU
1	A	1027	VAL
1	B	140	VAL
1	B	250	LEU
1	B	339	GLU
1	B	488	LEU
1	B	558	ARG
1	B	673	GLU
1	B	705	LEU
1	B	742	LEU
1	B	755	SER
1	C	241	GLN
1	C	407	ASP
1	C	507	GLU
1	C	582	SER
1	C	602	GLU
1	C	618	ALA
1	C	663	VAL
1	C	689	GLY
1	C	804	ALA
1	C	1017	ILE
1	D	147	GLY
1	D	217	GLY
1	D	361	ASN
1	D	440	GLY
1	D	498	LYS
1	D	732	ASP
1	D	779	ARG
1	D	796	GLU
1	D	819	ASN
1	D	989	ILE
1	E	147	GLY
1	E	181	GLN
1	E	192	LYS
1	E	228	GLN
1	E	580	PRO
1	E	658	PHE
1	E	680	PHE

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Mol	Chain	Res	Type
1	E	681	ASP
1	E	712	LEU
1	E	719	GLY
1	E	728	LEU
1	E	732	ASP
1	E	790	VAL
1	E	806	GLY
1	E	827	LEU
1	E	958	ILE
1	F	201	GLY
1	F	202	ASP
1	F	225	VAL
1	F	322	LYS
1	F	326	PRO
1	F	360	GLN
1	F	363	ARG
1	F	502	LYS
1	F	644	VAL
1	F	744	ASP
1	F	778	ALA
1	F	810	TYR
1	F	819	ASN
1	F	958	ILE
1	A	69	MET
1	A	170	LYS
1	A	451	ALA
1	A	643	SER
1	A	664	PHE
1	A	755	SER
1	A	832	PRO
1	A	839	ALA
1	A	851	PRO
1	B	127	ILE
1	B	357	LEU
1	B	439	GLN
1	B	509	LYS
1	B	660	ASP
1	B	676	ASN
1	B	807	LYS
1	C	163	GLN
1	C	240	LEU
1	C	422	GLU

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Mol	Chain	Res	Type
1	C	598	LEU
1	C	616	ASN
1	C	687	GLN
1	C	755	SER
1	C	779	ARG
1	D	61	VAL
1	D	143	VAL
1	D	311	ALA
1	D	538	ARG
1	D	635	GLU
1	D	699	ARG
1	D	794	LYS
1	D	1026	ALA
1	E	657	SER
1	E	688	ALA
1	E	689	GLY
1	E	785	LEU
1	E	807	LYS
1	E	849	GLN
1	E	853	GLY
1	F	299	ALA
1	F	462	SER
1	F	503	GLY
1	F	633	PRO
1	F	726	TYR
1	F	742	LEU
1	F	745	ILE
1	F	845	GLU
1	A	328	ASP
1	A	564	LEU
1	A	588	GLN
1	A	602	GLU
1	A	932	THR
1	B	217	GLY
1	B	312	ASN
1	B	639	GLY
1	C	34	GLN
1	C	362	PHE
1	C	400	LEU
1	C	414	GLU
1	C	597	TYR
1	C	641	GLU

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Mol	Chain	Res	Type
1	C	662	MET
1	C	852	LYS
1	C	872	ALA
1	D	258	SER
1	D	263	LYS
1	D	424	GLY
1	D	439	GLN
1	D	564	LEU
1	D	755	SER
1	D	917	MET
1	D	946	GLU
1	E	85	ASP
1	E	722	ASP
1	E	804	ALA
1	E	829	GLU
1	F	241	GLN
1	F	276	SER
1	F	318	PRO
1	F	598	LEU
1	F	601	LYS
1	F	602	GLU
1	F	663	VAL
1	F	678	THR
1	F	853	GLY
1	F	1024	TYR
1	A	126	GLY
1	A	676	ASN
1	B	216	SER
1	C	360	GLN
1	C	1025	VAL
1	D	372	VAL
1	D	588	GLN
1	D	730	ILE
1	D	777	ASP
1	D	956	LYS
1	E	184	MET
1	E	208	GLN
1	E	258	SER
1	F	36	PRO
1	F	238	THR
1	F	330	THR
1	F	618	ALA

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Mol	Chain	Res	Type
1	F	690	VAL
1	A	167	SER
1	A	318	PRO
1	A	638	PRO
1	A	777	ASP
1	B	221	GLY
1	B	549	VAL
1	C	318	PRO
1	C	326	PRO
1	C	456	MET
1	C	539	ALA
1	C	621	GLY
1	C	639	GLY
1	D	617	PHE
1	E	557	THR
1	E	779	ARG
1	F	50	PRO
1	F	857	SER
1	F	1032	LYS
1	A	498	LYS
1	B	847	VAL
1	C	62	VAL
1	C	609	VAL
1	D	214	ILE
1	E	715	VAL
1	F	147	GLY
1	F	981	ILE
1	A	47	VAL
1	A	994	GLY
1	A	996	GLY
1	C	61	VAL
1	C	315	PRO
1	E	340	VAL
1	E	691	GLY
1	E	795	GLY
1	F	851	PRO
1	A	776	PRO
1	B	539	ALA
1	C	580	PRO
1	C	846	ILE
1	D	578	THR
1	F	47	VAL

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Mol	Chain	Res	Type
1	A	221	GLY
1	F	799	PRO
1	A	639	GLY

5.3.2 Protein sidechains ⓘ

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	832/854 (97%)	758 (91%)	74 (9%)	9	22
1	B	841/854 (98%)	764 (91%)	77 (9%)	8	20
1	C	841/854 (98%)	756 (90%)	85 (10%)	7	17
1	D	835/854 (98%)	758 (91%)	77 (9%)	8	20
1	E	841/854 (98%)	778 (92%)	63 (8%)	12	29
1	F	844/854 (99%)	769 (91%)	75 (9%)	9	22
All	All	5034/5124 (98%)	4583 (91%)	451 (9%)	9	21

All (451) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	21	LEU
1	A	25	LEU
1	A	32	VAL
1	A	33	ASN
1	A	48	SER
1	A	55	GLU
1	A	83	ASN
1	A	84	SER
1	A	95	GLU
1	A	96	GLN
1	A	115	THR
1	A	121	GLU
1	A	131	LYS
1	A	134	LYS
1	A	139	VAL

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Mol	Chain	Res	Type
1	A	172	VAL
1	A	177	VAL
1	A	188	LEU
1	A	215	SER
1	A	219	LEU
1	A	244	GLU
1	A	289	ILE
1	A	302	THR
1	A	307	ARG
1	A	337	ILE
1	A	343	THR
1	A	359	LEU
1	A	362	PHE
1	A	377	LEU
1	A	406	VAL
1	A	415	ASN
1	A	417	GLU
1	A	437	GLN
1	A	438	ILE
1	A	442	LEU
1	A	468	ARG
1	A	472	ILE
1	A	474	ILE
1	A	483	ILE
1	A	484	VAL
1	A	488	LEU
1	A	489	THR
1	A	512	PHE
1	A	556	PHE
1	A	612	VAL
1	A	616	ASN
1	A	645	PHE
1	A	671	VAL
1	A	684	LEU
1	A	690	VAL
1	A	730	ILE
1	A	760	ASP
1	A	761	PHE
1	A	762	ILE
1	A	768	LYS
1	A	770	VAL
1	A	805	THR

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Mol	Chain	Res	Type
1	A	810	TYR
1	A	814	LYS
1	A	821	VAL
1	A	856	TYR
1	A	861	LEU
1	A	863	TYR
1	A	878	LEU
1	A	900	VAL
1	A	928	VAL
1	A	933	THR
1	A	958	ILE
1	A	964	GLU
1	A	970	LEU
1	A	976	THR
1	A	989	ILE
1	A	1013	THR
1	A	1027	VAL
1	B	2	SER
1	B	17	LEU
1	B	18	VAL
1	B	47	VAL
1	B	60	THR
1	B	64	VAL
1	B	68	GLN
1	B	70	ASN
1	B	78	ILE
1	B	79	SER
1	B	89	THR
1	B	96	GLN
1	B	105	VAL
1	B	106	GLN
1	B	111	LEU
1	B	113	LEU
1	B	121	GLU
1	B	129	VAL
1	B	134	LYS
1	B	139	VAL
1	B	152	GLU
1	B	159	VAL
1	B	182	TYR
1	B	188	LEU
1	B	197	GLN

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Mol	Chain	Res	Type
1	B	251	LEU
1	B	280	GLN
1	B	289	ILE
1	B	291	ILE
1	B	339	GLU
1	B	343	THR
1	B	348	ILE
1	B	365	THR
1	B	393	LEU
1	B	405	LEU
1	B	411	VAL
1	B	414	GLU
1	B	418	ARG
1	B	423	GLU
1	B	432	ARG
1	B	434	SER
1	B	445	ILE
1	B	462	SER
1	B	473	THR
1	B	475	VAL
1	B	486	LEU
1	B	495	THR
1	B	497	LEU
1	B	501	GLU
1	B	543	LEU
1	B	559	ILE
1	B	572	LEU
1	B	575	GLN
1	B	635	GLU
1	B	650	ARG
1	B	658	PHE
1	B	684	LEU
1	B	687	GLN
1	B	693	GLU
1	B	696	LEU
1	B	712	LEU
1	B	733	GLU
1	B	759	ASN
1	B	767	VAL
1	B	789	TYR
1	B	827	LEU
1	B	844	GLU

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Mol	Chain	Res	Type
1	B	848	LYS
1	B	871	GLN
1	B	880	LEU
1	B	909	ILE
1	B	917	MET
1	B	936	LEU
1	B	959	VAL
1	B	969	ARG
1	B	970	LEU
1	B	1001	ILE
1	C	15	ILE
1	C	30	LEU
1	C	38	ILE
1	C	55	GLU
1	C	67	GLN
1	C	89	THR
1	C	102	ILE
1	C	117	LEU
1	C	118	LEU
1	C	121	GLU
1	C	125	GLN
1	C	143	VAL
1	C	152	GLU
1	C	163	GLN
1	C	210	GLN
1	C	218	GLN
1	C	238	THR
1	C	240	LEU
1	C	248	ASN
1	C	252	LYS
1	C	264	ASP
1	C	277	ILE
1	C	291	ILE
1	C	306	ILE
1	C	343	THR
1	C	348	ILE
1	C	350	LEU
1	C	357	LEU
1	C	391	ASN
1	C	394	THR
1	C	398	MET
1	C	402	ILE

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Mol	Chain	Res	Type
1	C	405	LEU
1	C	408	ASP
1	C	410	ILE
1	C	435	MET
1	C	439	GLN
1	C	448	VAL
1	C	452	VAL
1	C	463	THR
1	C	466	ILE
1	C	468	ARG
1	C	473	THR
1	C	475	VAL
1	C	484	VAL
1	C	486	LEU
1	C	495	THR
1	C	497	LEU
1	C	502	LYS
1	C	544	ILE
1	C	557	THR
1	C	595	ARG
1	C	611	THR
1	C	616	ASN
1	C	635	GLU
1	C	659	LYS
1	C	685	GLN
1	C	718	ASN
1	C	730	ILE
1	C	764	ARG
1	C	797	MET
1	C	814	LYS
1	C	826	ILE
1	C	840	MET
1	C	865	GLU
1	C	867	LEU
1	C	880	LEU
1	C	881	LEU
1	C	890	LEU
1	C	896	ILE
1	C	902	LEU
1	C	906	LEU
1	C	920	LEU
1	C	932	THR

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Mol	Chain	Res	Type
1	C	933	THR
1	C	934	ILE
1	C	937	SER
1	C	943	LEU
1	C	970	LEU
1	C	982	LEU
1	C	984	VAL
1	C	1009	MET
1	C	1010	VAL
1	C	1022	LEU
1	C	1030	LEU
1	D	25	LEU
1	D	55	GLU
1	D	70	ASN
1	D	89	THR
1	D	96	GLN
1	D	118	LEU
1	D	121	GLU
1	D	134	LYS
1	D	163	GLN
1	D	166	LEU
1	D	172	VAL
1	D	319	GLN
1	D	329	THR
1	D	344	LEU
1	D	348	ILE
1	D	353	LEU
1	D	359	LEU
1	D	362	PHE
1	D	365	THR
1	D	382	VAL
1	D	392	THR
1	D	393	LEU
1	D	405	LEU
1	D	408	ASP
1	D	413	VAL
1	D	417	GLU
1	D	437	GLN
1	D	443	VAL
1	D	463	THR
1	D	472	ILE
1	D	475	VAL

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Mol	Chain	Res	Type
1	D	483	ILE
1	D	484	VAL
1	D	488	LEU
1	D	497	LEU
1	D	512	PHE
1	D	521	LEU
1	D	544	ILE
1	D	586	ARG
1	D	592	ASP
1	D	601	LYS
1	D	616	ASN
1	D	641	GLU
1	D	647	LEU
1	D	674	LEU
1	D	678	THR
1	D	684	LEU
1	D	687	GLN
1	D	695	LEU
1	D	713	GLN
1	D	715	VAL
1	D	742	LEU
1	D	772	LEU
1	D	800	PHE
1	D	821	VAL
1	D	824	MET
1	D	845	GLU
1	D	857	SER
1	D	863	TYR
1	D	878	LEU
1	D	881	LEU
1	D	885	LEU
1	D	928	VAL
1	D	932	THR
1	D	933	THR
1	D	958	ILE
1	D	964	GLU
1	D	970	LEU
1	D	985	VAL
1	D	987	LEU
1	D	1009	MET
1	D	1011	THR
1	D	1013	THR

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Mol	Chain	Res	Type
1	D	1022	LEU
1	D	1029	THR
1	D	1030	LEU
1	D	1031	PHE
1	E	15	ILE
1	E	17	LEU
1	E	18	VAL
1	E	38	ILE
1	E	47	VAL
1	E	48	SER
1	E	78	ILE
1	E	81	GLU
1	E	89	THR
1	E	112	GLN
1	E	113	LEU
1	E	117	LEU
1	E	125	GLN
1	E	127	ILE
1	E	134	LYS
1	E	146	ASP
1	E	159	VAL
1	E	167	SER
1	E	298	ASN
1	E	323	VAL
1	E	348	ILE
1	E	354	VAL
1	E	365	THR
1	E	393	LEU
1	E	398	MET
1	E	402	ILE
1	E	405	LEU
1	E	411	VAL
1	E	414	GLU
1	E	420	MET
1	E	432	ARG
1	E	475	VAL
1	E	486	LEU
1	E	495	THR
1	E	497	LEU
1	E	502	LYS
1	E	544	ILE
1	E	558	ARG

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Mol	Chain	Res	Type
1	E	559	ILE
1	E	572	LEU
1	E	592	ASP
1	E	597	TYR
1	E	629	ILE
1	E	635	GLU
1	E	659	LYS
1	E	666	PHE
1	E	693	GLU
1	E	696	LEU
1	E	722	ASP
1	E	767	VAL
1	E	785	LEU
1	E	803	PHE
1	E	825	GLU
1	E	865	GLU
1	E	870	SER
1	E	893	SER
1	E	936	LEU
1	E	956	LYS
1	E	969	ARG
1	E	976	THR
1	E	984	VAL
1	E	1001	ILE
1	E	1022	LEU
1	F	15	ILE
1	F	30	LEU
1	F	38	ILE
1	F	47	VAL
1	F	55	GLU
1	F	62	VAL
1	F	72	ILE
1	F	83	ASN
1	F	88	MET
1	F	104	GLN
1	F	115	THR
1	F	125	GLN
1	F	128	ARG
1	F	142	VAL
1	F	152	GLU
1	F	160	SER
1	F	166	LEU

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Mol	Chain	Res	Type
1	F	185	ARG
1	F	256	ASP
1	F	259	GLN
1	F	278	ASN
1	F	289	ILE
1	F	295	THR
1	F	306	ILE
1	F	343	THR
1	F	344	LEU
1	F	348	ILE
1	F	357	LEU
1	F	366	LEU
1	F	374	VAL
1	F	376	LEU
1	F	379	THR
1	F	394	THR
1	F	402	ILE
1	F	410	ILE
1	F	445	ILE
1	F	452	VAL
1	F	462	SER
1	F	463	THR
1	F	466	ILE
1	F	471	SER
1	F	473	THR
1	F	481	SER
1	F	484	VAL
1	F	486	LEU
1	F	488	LEU
1	F	495	THR
1	F	497	LEU
1	F	498	LYS
1	F	502	LYS
1	F	507	GLU
1	F	519	MET
1	F	544	ILE
1	F	564	LEU
1	F	595	ARG
1	F	608	SER
1	F	616	ASN
1	F	631	LEU
1	F	654	HIS

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Mol	Chain	Res	Type
1	F	716	ARG
1	F	720	MET
1	F	730	ILE
1	F	779	ARG
1	F	827	LEU
1	F	846	ILE
1	F	856	TYR
1	F	880	LEU
1	F	881	LEU
1	F	902	LEU
1	F	909	ILE
1	F	932	THR
1	F	934	ILE
1	F	946	GLU
1	F	973	ILE
1	F	1001	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (221) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	33	ASN
1	A	46	GLN
1	A	63	GLN
1	A	96	GLN
1	A	106	GLN
1	A	108	GLN
1	A	120	GLN
1	A	125	GLN
1	A	176	GLN
1	A	194	ASN
1	A	210	GLN
1	A	229	GLN
1	A	241	GLN
1	A	245	GLN
1	A	248	ASN
1	A	298	ASN
1	A	415	ASN
1	A	437	GLN
1	A	469	GLN
1	A	569	GLN
1	A	588	GLN
1	A	616	ASN

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Mol	Chain	Res	Type
1	A	622	GLN
1	A	652	GLN
1	A	654	HIS
1	A	687	GLN
1	A	697	GLN
1	A	708	GLN
1	A	713	GLN
1	A	819	ASN
1	A	871	GLN
1	A	922	ASN
1	A	927	GLN
1	A	940	ASN
1	A	998	GLN
1	B	58	GLN
1	B	67	GLN
1	B	70	ASN
1	B	112	GLN
1	B	120	GLN
1	B	123	GLN
1	B	156	ASN
1	B	181	GLN
1	B	208	GLN
1	B	228	GLN
1	B	231	ASN
1	B	241	GLN
1	B	259	GLN
1	B	273	GLN
1	B	298	ASN
1	B	308	GLN
1	B	360	GLN
1	B	361	ASN
1	B	415	ASN
1	B	439	GLN
1	B	469	GLN
1	B	577	GLN
1	B	616	ASN
1	B	622	GLN
1	B	685	GLN
1	B	687	GLN
1	B	692	HIS
1	B	697	GLN
1	B	713	GLN

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Mol	Chain	Res	Type
1	B	718	ASN
1	B	746	ASN
1	B	759	ASN
1	B	773	GLN
1	B	871	GLN
1	B	927	GLN
1	C	34	GLN
1	C	68	GLN
1	C	70	ASN
1	C	83	ASN
1	C	104	GLN
1	C	108	GLN
1	C	120	GLN
1	C	125	GLN
1	C	156	ASN
1	C	161	ASN
1	C	163	GLN
1	C	210	GLN
1	C	228	GLN
1	C	231	ASN
1	C	241	GLN
1	C	248	ASN
1	C	254	ASN
1	C	259	GLN
1	C	280	GLN
1	C	319	GLN
1	C	360	GLN
1	C	391	ASN
1	C	439	GLN
1	C	569	GLN
1	C	577	GLN
1	C	616	ASN
1	C	654	HIS
1	C	692	HIS
1	C	708	GLN
1	C	713	GLN
1	C	725	GLN
1	C	746	ASN
1	C	773	GLN
1	C	781	ASN
1	C	849	GLN
1	C	871	GLN

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Mol	Chain	Res	Type
1	C	927	GLN
1	C	998	GLN
1	D	33	ASN
1	D	63	GLN
1	D	67	GLN
1	D	96	GLN
1	D	120	GLN
1	D	125	GLN
1	D	156	ASN
1	D	163	GLN
1	D	176	GLN
1	D	194	ASN
1	D	197	GLN
1	D	210	GLN
1	D	213	GLN
1	D	218	GLN
1	D	228	GLN
1	D	231	ASN
1	D	241	GLN
1	D	245	GLN
1	D	248	ASN
1	D	254	ASN
1	D	273	GLN
1	D	298	ASN
1	D	308	GLN
1	D	319	GLN
1	D	391	ASN
1	D	437	GLN
1	D	575	GLN
1	D	577	GLN
1	D	622	GLN
1	D	685	GLN
1	D	687	GLN
1	D	697	GLN
1	D	708	GLN
1	D	709	ASN
1	D	713	GLN
1	D	819	ASN
1	D	871	GLN
1	D	927	GLN
1	D	998	GLN
1	E	34	GLN

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Mol	Chain	Res	Type
1	E	83	ASN
1	E	108	GLN
1	E	123	GLN
1	E	125	GLN
1	E	156	ASN
1	E	181	GLN
1	E	197	GLN
1	E	218	GLN
1	E	228	GLN
1	E	229	GLN
1	E	245	GLN
1	E	259	GLN
1	E	278	ASN
1	E	280	GLN
1	E	298	ASN
1	E	312	ASN
1	E	415	ASN
1	E	577	GLN
1	E	642	ASN
1	E	654	HIS
1	E	687	GLN
1	E	697	GLN
1	E	700	ASN
1	E	708	GLN
1	E	725	GLN
1	E	759	ASN
1	E	773	GLN
1	E	801	ASN
1	E	819	ASN
1	E	849	GLN
1	E	871	GLN
1	E	922	ASN
1	E	927	GLN
1	E	998	GLN
1	F	34	GLN
1	F	46	GLN
1	F	58	GLN
1	F	83	ASN
1	F	104	GLN
1	F	106	GLN
1	F	108	GLN
1	F	112	GLN

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Mol	Chain	Res	Type
1	F	120	GLN
1	F	156	ASN
1	F	218	GLN
1	F	228	GLN
1	F	231	ASN
1	F	241	GLN
1	F	245	GLN
1	F	248	ASN
1	F	254	ASN
1	F	259	GLN
1	F	273	GLN
1	F	278	ASN
1	F	415	ASN
1	F	437	GLN
1	F	439	GLN
1	F	469	GLN
1	F	517	ASN
1	F	569	GLN
1	F	577	GLN
1	F	622	GLN
1	F	642	ASN
1	F	685	GLN
1	F	687	GLN
1	F	708	GLN
1	F	713	GLN
1	F	781	ASN
1	F	849	GLN
1	F	871	GLN
1	F	927	GLN
1	F	952	HIS
1	F	998	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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

16 ligands are modelled in this entry.

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
2	LMT	F	2001	-	36,36,36	0.82	1 (2%)	47,47,47	2.00	13 (27%)
2	LMT	C	2001	-	36,36,36	0.76	1 (2%)	47,47,47	1.25	5 (10%)
2	LMT	B	2004	-	36,36,36	0.48	0	47,47,47	1.02	3 (6%)
2	LMT	E	2001	-	36,36,36	0.69	1 (2%)	47,47,47	1.11	3 (6%)
2	LMT	A	1102	-	36,36,36	0.69	1 (2%)	47,47,47	1.64	11 (23%)
2	LMT	C	2002	-	36,36,36	0.71	1 (2%)	47,47,47	1.32	5 (10%)
2	LMT	F	2002	-	36,36,36	0.85	1 (2%)	47,47,47	1.36	5 (10%)
2	LMT	D	2002	-	36,36,36	0.65	1 (2%)	47,47,47	1.35	4 (8%)
2	LMT	B	2002	-	36,36,36	0.77	1 (2%)	47,47,47	1.77	11 (23%)
2	LMT	E	2002	-	36,36,36	0.96	1 (2%)	47,47,47	1.47	9 (19%)
2	LMT	E	2003	-	36,36,36	0.75	1 (2%)	47,47,47	1.51	5 (10%)
2	LMT	B	2003	-	36,36,36	0.83	1 (2%)	47,47,47	1.61	10 (21%)
2	LMT	B	2001	-	36,36,36	0.48	0	47,47,47	1.30	4 (8%)
2	LMT	D	2001	-	36,36,36	0.95	2 (5%)	47,47,47	1.47	7 (14%)
2	LMT	D	2003	-	36,36,36	0.80	1 (2%)	47,47,47	1.38	6 (12%)
2	LMT	A	1101	-	36,36,36	0.84	1 (2%)	47,47,47	1.74	15 (31%)

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
2	LMT	F	2001	-	-	12/21/61/61	0/2/2/2
2	LMT	C	2001	-	-	14/21/61/61	0/2/2/2
2	LMT	B	2004	-	-	9/21/61/61	0/2/2/2
2	LMT	E	2001	-	-	9/21/61/61	0/2/2/2
2	LMT	A	1102	-	-	10/21/61/61	0/2/2/2
2	LMT	C	2002	-	-	14/21/61/61	0/2/2/2
2	LMT	F	2002	-	-	12/21/61/61	0/2/2/2
2	LMT	D	2002	-	-	9/21/61/61	0/2/2/2
2	LMT	B	2002	-	-	12/21/61/61	0/2/2/2
2	LMT	E	2002	-	-	5/21/61/61	0/2/2/2
2	LMT	E	2003	-	-	14/21/61/61	0/2/2/2
2	LMT	B	2003	-	-	8/21/61/61	0/2/2/2
2	LMT	B	2001	-	-	5/21/61/61	0/2/2/2
2	LMT	D	2001	-	-	16/21/61/61	0/2/2/2
2	LMT	D	2003	-	-	7/21/61/61	0/2/2/2
2	LMT	A	1101	-	-	13/21/61/61	0/2/2/2

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	2001	LMT	O1'-C1'	3.28	1.45	1.40
2	E	2002	LMT	O1'-C1'	3.27	1.45	1.40
2	D	2003	LMT	O1'-C1'	3.27	1.45	1.40
2	D	2001	LMT	O1'-C1'	3.18	1.45	1.40
2	B	2003	LMT	O1'-C1'	3.07	1.45	1.40
2	E	2001	LMT	O1'-C1'	3.06	1.45	1.40
2	F	2002	LMT	O1'-C1'	2.99	1.45	1.40
2	F	2001	LMT	O1'-C1'	2.88	1.45	1.40
2	A	1101	LMT	O1'-C1'	2.81	1.44	1.40
2	A	1102	LMT	O1'-C1'	2.72	1.44	1.40
2	C	2002	LMT	O1'-C1'	2.65	1.44	1.40
2	E	2003	LMT	O1'-C1'	2.53	1.44	1.40
2	B	2002	LMT	O1'-C1'	2.19	1.43	1.40
2	D	2002	LMT	O1'-C1'	2.12	1.43	1.40
2	D	2001	LMT	O1B-C1B	2.10	1.47	1.41

All (116) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2003	LMT	C1B-O5B-C5B	5.83	125.11	113.72
2	F	2001	LMT	C3'-C4'-C5'	-5.13	99.55	110.93
2	E	2003	LMT	C1B-O5B-C5B	5.05	123.58	113.72
2	B	2001	LMT	C1B-O1B-C4'	-4.72	106.80	117.98
2	B	2002	LMT	O5B-C5B-C4B	4.67	118.12	109.70
2	F	2001	LMT	C1-O1'-C1'	4.55	121.45	113.68
2	E	2002	LMT	C1'-O5'-C5'	4.37	122.26	113.72
2	D	2003	LMT	O1'-C1'-C2'	4.29	114.79	108.27
2	F	2001	LMT	O5B-C5B-C6B	4.11	116.61	106.44
2	A	1101	LMT	C1'-O5'-C5'	4.10	121.72	113.72
2	B	2001	LMT	C1-O1'-C1'	-4.03	106.80	113.68
2	F	2002	LMT	C2'-C3'-C4'	3.97	118.68	109.68
2	B	2002	LMT	C1'-O5'-C5'	3.96	121.46	113.72
2	B	2003	LMT	O5B-C5B-C4B	3.95	116.81	109.70
2	D	2001	LMT	C1B-O5B-C5B	3.94	121.42	113.72
2	D	2002	LMT	C1B-O5B-C5B	3.88	121.30	113.72
2	F	2002	LMT	C1'-C2'-C3'	3.87	118.14	110.01
2	A	1101	LMT	C2'-C3'-C4'	-3.86	100.91	109.68
2	F	2001	LMT	O5'-C5'-C4'	-3.85	101.76	109.72
2	A	1102	LMT	O1'-C1'-C2'	3.85	114.12	108.27
2	F	2001	LMT	O1B-C4'-C5'	3.83	119.52	109.48
2	F	2001	LMT	C1'-C2'-C3'	3.79	117.98	110.01
2	B	2002	LMT	C2'-C3'-C4'	3.78	118.27	109.68
2	B	2002	LMT	C3B-C4B-C5B	3.69	116.92	110.23
2	A	1101	LMT	O1B-C4'-C3'	3.64	116.47	107.23
2	D	2002	LMT	O5'-C5'-C4'	3.62	117.21	109.72
2	E	2003	LMT	C3B-C4B-C5B	3.55	116.66	110.23
2	A	1102	LMT	O1B-C1B-C2B	3.54	116.81	108.09
2	A	1102	LMT	C1B-O5B-C5B	3.41	120.38	113.72
2	D	2001	LMT	O1B-C1B-C2B	3.40	116.46	108.09
2	E	2003	LMT	O1B-C4'-C3'	3.39	115.86	107.23
2	A	1102	LMT	O5B-C5B-C4B	3.36	115.75	109.70
2	A	1102	LMT	C4B-C3B-C2B	-3.32	105.00	110.83
2	B	2002	LMT	C1'-C2'-C3'	3.29	116.93	110.01
2	C	2002	LMT	C2'-C3'-C4'	3.27	117.09	109.68
2	D	2001	LMT	C1'-O5'-C5'	3.26	120.09	113.72
2	A	1101	LMT	C3B-C4B-C5B	3.19	116.01	110.23
2	E	2002	LMT	O1B-C1B-C2B	3.15	115.83	108.09
2	E	2003	LMT	O5B-C5B-C4B	3.15	115.37	109.70
2	C	2001	LMT	C3B-C4B-C5B	3.13	115.91	110.23
2	B	2001	LMT	C1'-O5'-C5'	-3.11	107.64	113.72
2	F	2002	LMT	C1B-O1B-C4'	3.11	125.34	117.98
2	C	2001	LMT	C1'-O5'-C5'	3.10	119.78	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	2001	LMT	C1B-O5B-C5B	-3.10	107.67	113.72
2	A	1102	LMT	O2B-C2B-C3B	3.08	117.64	110.38
2	F	2001	LMT	O1B-C1B-C2B	3.07	115.65	108.09
2	E	2002	LMT	O5'-C5'-C6'	3.07	114.05	106.44
2	A	1102	LMT	O5'-C1'-C2'	-3.07	104.07	110.37
2	F	2001	LMT	C6'-C5'-C4'	3.05	121.96	113.38
2	C	2002	LMT	C1B-O5B-C5B	3.04	119.66	113.72
2	E	2003	LMT	C1'-O5'-C5'	3.03	119.64	113.72
2	F	2001	LMT	O2'-C2'-C3'	-2.96	103.40	110.38
2	B	2003	LMT	O1'-C1'-C2'	2.94	112.73	108.27
2	B	2002	LMT	O5'-C5'-C4'	2.93	115.78	109.72
2	F	2002	LMT	O1B-C4'-C3'	2.91	114.63	107.23
2	D	2003	LMT	C1B-O5B-C5B	2.89	119.37	113.72
2	B	2003	LMT	O1B-C4'-C3'	2.89	114.56	107.23
2	B	2002	LMT	C1B-O1B-C4'	-2.88	111.15	117.98
2	E	2001	LMT	O3B-C3B-C2B	-2.84	103.67	110.38
2	E	2001	LMT	O5B-C5B-C6B	2.82	113.43	106.44
2	A	1101	LMT	O5B-C5B-C6B	2.81	113.40	106.44
2	A	1101	LMT	O5B-C5B-C4B	2.80	114.75	109.70
2	B	2002	LMT	C3'-C4'-C5'	2.78	117.10	110.93
2	D	2003	LMT	C3B-C4B-C5B	2.76	115.23	110.23
2	F	2001	LMT	O1'-C1'-C2'	2.76	112.46	108.27
2	F	2001	LMT	C1B-O5B-C5B	2.73	119.06	113.72
2	B	2002	LMT	C1B-O5B-C5B	2.71	119.00	113.72
2	F	2001	LMT	O5'-C5'-C6'	2.70	113.14	106.44
2	D	2001	LMT	O5'-C1'-O1'	2.66	116.34	110.04
2	B	2003	LMT	O1B-C1B-C2B	2.63	114.56	108.09
2	C	2002	LMT	O5'-C1'-C2'	-2.63	104.97	110.37
2	E	2001	LMT	O1'-C1'-C2'	2.61	112.24	108.27
2	A	1101	LMT	O2'-C2'-C3'	-2.58	104.28	110.38
2	D	2001	LMT	O5B-C5B-C6B	2.57	112.81	106.44
2	A	1101	LMT	C1B-O5B-C5B	2.56	118.71	113.72
2	C	2001	LMT	O1'-C1'-C2'	2.54	112.13	108.27
2	D	2002	LMT	C1'-O5'-C5'	2.53	118.67	113.72
2	B	2003	LMT	C4B-C3B-C2B	-2.53	106.38	110.83
2	A	1101	LMT	O1B-C4'-C5'	2.47	115.97	109.48
2	B	2003	LMT	C3'-C4'-C5'	-2.47	105.46	110.93
2	D	2003	LMT	O5'-C5'-C6'	2.46	112.53	106.44
2	E	2002	LMT	O1B-C4'-C5'	2.44	115.87	109.48
2	D	2001	LMT	O5'-C5'-C6'	2.41	112.42	106.44
2	A	1101	LMT	C1B-O1B-C4'	2.41	123.69	117.98
2	E	2002	LMT	O5'-C5'-C4'	2.41	114.70	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	2001	LMT	C1B-O1B-C4'	-2.38	112.33	117.98
2	E	2002	LMT	C1-O1'-C1'	2.38	117.75	113.68
2	C	2002	LMT	O2'-C2'-C3'	-2.38	104.77	110.38
2	E	2002	LMT	O3'-C3'-C4'	-2.35	103.91	109.94
2	A	1101	LMT	O5'-C5'-C4'	2.34	114.55	109.72
2	B	2003	LMT	C1B-O1B-C4'	-2.33	112.45	117.98
2	A	1102	LMT	O1B-C4'-C5'	2.33	115.59	109.48
2	A	1101	LMT	C4B-C3B-C2B	2.32	114.91	110.83
2	A	1102	LMT	C1B-O1B-C4'	-2.31	112.50	117.98
2	B	2004	LMT	O1'-C1'-C2'	2.31	111.78	108.27
2	C	2001	LMT	C4B-C3B-C2B	2.30	114.86	110.83
2	A	1102	LMT	O5B-C1B-C2B	-2.30	105.65	110.37
2	D	2002	LMT	O5B-C5B-C6B	2.30	112.13	106.44
2	E	2002	LMT	O5B-C5B-C4B	2.28	113.80	109.70
2	F	2002	LMT	O2'-C2'-C3'	-2.27	105.02	110.38
2	B	2003	LMT	C1-O1'-C1'	2.25	117.52	113.68
2	A	1102	LMT	C6B-C5B-C4B	-2.21	107.60	113.02
2	B	2002	LMT	O1B-C1B-C2B	2.21	113.52	108.09
2	A	1101	LMT	O5'-C1'-O1'	2.21	115.26	110.04
2	D	2001	LMT	O5'-C5'-C4'	2.20	114.27	109.72
2	C	2002	LMT	O1B-C1B-C2B	2.18	113.44	108.09
2	B	2002	LMT	O5'-C1'-O1'	2.15	115.13	110.04
2	F	2001	LMT	O2B-C2B-C3B	2.14	115.43	110.38
2	B	2004	LMT	C1B-C2B-C3B	-2.13	105.52	110.01
2	B	2004	LMT	O3B-C3B-C4B	2.12	115.36	110.38
2	D	2003	LMT	O4'-C4B-C3B	-2.11	105.39	110.38
2	D	2003	LMT	C1-O1'-C1'	2.10	117.27	113.68
2	A	1101	LMT	O1B-C1B-O5B	2.07	116.14	110.69
2	E	2002	LMT	O4'-C4B-C5B	2.06	114.39	109.32
2	A	1101	LMT	O5'-C1'-C2'	2.06	114.60	110.37
2	B	2003	LMT	O5'-C5'-C6'	2.03	111.46	106.44

There are no chirality outliers.

All (169) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1101	LMT	C3'-C4'-O1B-C1B
2	B	2001	LMT	O5'-C1'-O1'-C1
2	B	2004	LMT	C2-C1-O1'-C1'
2	C	2001	LMT	O5'-C1'-O1'-C1
2	D	2001	LMT	C2'-C1'-O1'-C1
2	D	2001	LMT	O5'-C1'-O1'-C1

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Mol	Chain	Res	Type	Atoms
2	D	2003	LMT	C2-C1-O1'-C1'
2	E	2002	LMT	O5'-C1'-O1'-C1
2	E	2003	LMT	C2'-C1'-O1'-C1
2	F	2001	LMT	C2B-C1B-O1B-C4'
2	F	2001	LMT	C2'-C1'-O1'-C1
2	F	2002	LMT	C3'-C4'-O1B-C1B
2	D	2002	LMT	O5B-C1B-O1B-C4'
2	D	2001	LMT	C2B-C1B-O1B-C4'
2	C	2002	LMT	O5B-C1B-O1B-C4'
2	F	2001	LMT	O5B-C1B-O1B-C4'
2	F	2002	LMT	O5B-C1B-O1B-C4'
2	C	2001	LMT	C4'-C5'-C6'-O6'
2	D	2001	LMT	O5'-C5'-C6'-O6'
2	D	2001	LMT	O5B-C5B-C6B-O6B
2	F	2002	LMT	C4'-C5'-C6'-O6'
2	B	2002	LMT	O5B-C5B-C6B-O6B
2	E	2003	LMT	C4B-C5B-C6B-O6B
2	A	1101	LMT	C4B-C5B-C6B-O6B
2	A	1102	LMT	O5B-C5B-C6B-O6B
2	B	2003	LMT	O5B-C5B-C6B-O6B
2	C	2001	LMT	O5'-C5'-C6'-O6'
2	B	2002	LMT	C4B-C5B-C6B-O6B
2	D	2001	LMT	C4'-C5'-C6'-O6'
2	A	1101	LMT	O5'-C1'-O1'-C1
2	B	2002	LMT	O5'-C1'-O1'-C1
2	C	2002	LMT	O5'-C1'-O1'-C1
2	E	2003	LMT	O5'-C1'-O1'-C1
2	F	2002	LMT	O5'-C1'-O1'-C1
2	F	2002	LMT	O5'-C5'-C6'-O6'
2	C	2001	LMT	O5B-C5B-C6B-O6B
2	C	2002	LMT	C4B-C5B-C6B-O6B
2	F	2001	LMT	C4'-C5'-C6'-O6'
2	E	2003	LMT	C4'-C5'-C6'-O6'
2	A	1101	LMT	C2'-C1'-O1'-C1
2	B	2002	LMT	C2'-C1'-O1'-C1
2	C	2001	LMT	C2'-C1'-O1'-C1
2	C	2002	LMT	C2'-C1'-O1'-C1
2	F	2002	LMT	C2'-C1'-O1'-C1
2	C	2002	LMT	O5B-C5B-C6B-O6B
2	E	2003	LMT	O5B-C5B-C6B-O6B
2	A	1102	LMT	C4B-C5B-C6B-O6B
2	B	2003	LMT	C4B-C5B-C6B-O6B

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Mol	Chain	Res	Type	Atoms
2	C	2001	LMT	C4B-C5B-C6B-O6B
2	D	2001	LMT	C4B-C5B-C6B-O6B
2	F	2001	LMT	O5'-C5'-C6'-O6'
2	B	2004	LMT	O1'-C1-C2-C3
2	E	2002	LMT	O5'-C5'-C6'-O6'
2	E	2003	LMT	O5'-C5'-C6'-O6'
2	F	2001	LMT	O5'-C1'-O1'-C1
2	C	2002	LMT	O5'-C5'-C6'-O6'
2	A	1101	LMT	O5B-C5B-C6B-O6B
2	B	2002	LMT	C2B-C1B-O1B-C4'
2	B	2001	LMT	C2'-C1'-O1'-C1
2	B	2001	LMT	C5'-C4'-O1B-C1B
2	E	2001	LMT	C4B-C5B-C6B-O6B
2	D	2002	LMT	C1-C2-C3-C4
2	A	1101	LMT	C1-C2-C3-C4
2	B	2003	LMT	C7-C8-C9-C10
2	D	2003	LMT	C4-C5-C6-C7
2	E	2003	LMT	C2-C1-O1'-C1'
2	C	2001	LMT	C2-C3-C4-C5
2	B	2004	LMT	C4-C5-C6-C7
2	F	2002	LMT	C6-C7-C8-C9
2	B	2004	LMT	C1-C2-C3-C4
2	A	1101	LMT	C3-C4-C5-C6
2	D	2001	LMT	C3'-C4'-O1B-C1B
2	C	2002	LMT	C1-C2-C3-C4
2	C	2002	LMT	C7-C8-C9-C10
2	B	2004	LMT	C2-C3-C4-C5
2	E	2003	LMT	C3-C4-C5-C6
2	F	2001	LMT	C1-C2-C3-C4
2	B	2004	LMT	C11-C10-C9-C8
2	B	2004	LMT	C7-C8-C9-C10
2	F	2001	LMT	C5-C6-C7-C8
2	F	2002	LMT	C2-C3-C4-C5
2	B	2002	LMT	C6-C7-C8-C9
2	B	2001	LMT	C3'-C4'-O1B-C1B
2	A	1101	LMT	C11-C10-C9-C8
2	E	2001	LMT	C2-C3-C4-C5
2	D	2001	LMT	C2-C3-C4-C5
2	D	2003	LMT	C2-C3-C4-C5
2	E	2003	LMT	C2-C3-C4-C5
2	D	2001	LMT	C7-C8-C9-C10
2	E	2001	LMT	O5B-C5B-C6B-O6B

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Mol	Chain	Res	Type	Atoms
2	F	2001	LMT	C3'-C4'-O1B-C1B
2	C	2002	LMT	C2B-C1B-O1B-C4'
2	D	2002	LMT	O5'-C5'-C6'-O6'
2	E	2001	LMT	O1'-C1-C2-C3
2	F	2002	LMT	O5B-C5B-C6B-O6B
2	C	2002	LMT	C5-C6-C7-C8
2	D	2002	LMT	C2-C3-C4-C5
2	D	2002	LMT	C5'-C4'-O1B-C1B
2	D	2002	LMT	C11-C10-C9-C8
2	D	2002	LMT	C3'-C4'-O1B-C1B
2	C	2001	LMT	C7-C8-C9-C10
2	B	2004	LMT	C3-C4-C5-C6
2	A	1102	LMT	C4'-C5'-C6'-O6'
2	D	2001	LMT	C5'-C4'-O1B-C1B
2	C	2002	LMT	C3'-C4'-O1B-C1B
2	B	2002	LMT	C4'-C5'-C6'-O6'
2	C	2002	LMT	C2-C3-C4-C5
2	A	1102	LMT	C11-C10-C9-C8
2	C	2001	LMT	C11-C10-C9-C8
2	A	1101	LMT	C9-C10-C11-C12
2	C	2002	LMT	C5'-C4'-O1B-C1B
2	C	2001	LMT	C5-C6-C7-C8
2	D	2001	LMT	O1'-C1-C2-C3
2	D	2003	LMT	C9-C10-C11-C12
2	D	2001	LMT	C4-C5-C6-C7
2	F	2002	LMT	O1'-C1-C2-C3
2	B	2002	LMT	O5B-C1B-O1B-C4'
2	B	2003	LMT	C2-C1-O1'-C1'
2	D	2001	LMT	C2-C1-O1'-C1'
2	A	1101	LMT	C7-C8-C9-C10
2	A	1101	LMT	C2-C3-C4-C5
2	B	2001	LMT	C5-C6-C7-C8
2	E	2003	LMT	C9-C10-C11-C12
2	C	2001	LMT	O1'-C1-C2-C3
2	E	2001	LMT	C11-C10-C9-C8
2	E	2001	LMT	C5-C6-C7-C8
2	E	2003	LMT	C11-C10-C9-C8
2	D	2001	LMT	C9-C10-C11-C12
2	F	2002	LMT	C7-C8-C9-C10
2	E	2002	LMT	C2'-C1'-O1'-C1
2	D	2003	LMT	O5'-C5'-C6'-O6'
2	E	2003	LMT	O1'-C1-C2-C3

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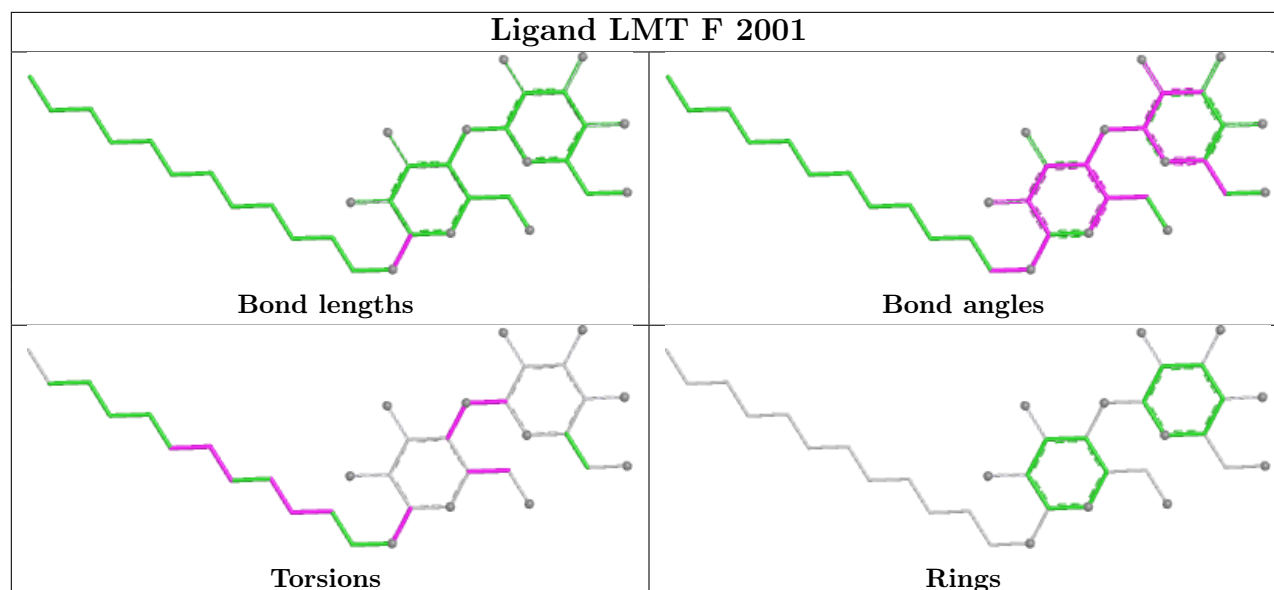
Mol	Chain	Res	Type	Atoms
2	F	2001	LMT	C5'-C4'-O1B-C1B
2	A	1102	LMT	C7-C8-C9-C10
2	A	1101	LMT	C4'-C5'-C6'-O6'
2	E	2001	LMT	C3-C4-C5-C6
2	D	2003	LMT	C6-C7-C8-C9
2	E	2003	LMT	C1-C2-C3-C4
2	E	2002	LMT	C4-C5-C6-C7
2	C	2002	LMT	C3-C4-C5-C6
2	D	2001	LMT	C1-C2-C3-C4
2	B	2002	LMT	C3-C4-C5-C6
2	D	2002	LMT	O1'-C1-C2-C3
2	B	2002	LMT	C2-C3-C4-C5
2	A	1102	LMT	C1-C2-C3-C4
2	E	2001	LMT	C4-C5-C6-C7
2	F	2001	LMT	C2-C3-C4-C5
2	F	2001	LMT	C4-C5-C6-C7
2	C	2001	LMT	C2B-C1B-O1B-C4'
2	B	2003	LMT	C11-C10-C9-C8
2	A	1102	LMT	O5'-C5'-C6'-O6'
2	B	2003	LMT	C4-C5-C6-C7
2	E	2001	LMT	C2-C1-O1'-C1'
2	A	1102	LMT	O5'-C1'-O1'-C1
2	E	2002	LMT	C2B-C1B-O1B-C4'
2	B	2002	LMT	C5-C6-C7-C8
2	C	2001	LMT	C4-C5-C6-C7
2	B	2003	LMT	C3-C4-C5-C6
2	B	2003	LMT	C4'-C5'-C6'-O6'
2	B	2002	LMT	C7-C8-C9-C10
2	E	2003	LMT	C4-C5-C6-C7
2	D	2002	LMT	C2-C1-O1'-C1'
2	A	1102	LMT	C9-C10-C11-C12
2	A	1102	LMT	C3-C4-C5-C6
2	B	2004	LMT	C6-C7-C8-C9
2	D	2003	LMT	C5-C6-C7-C8
2	C	2001	LMT	O5B-C1B-O1B-C4'
2	A	1101	LMT	C5-C6-C7-C8
2	F	2002	LMT	C11-C10-C9-C8

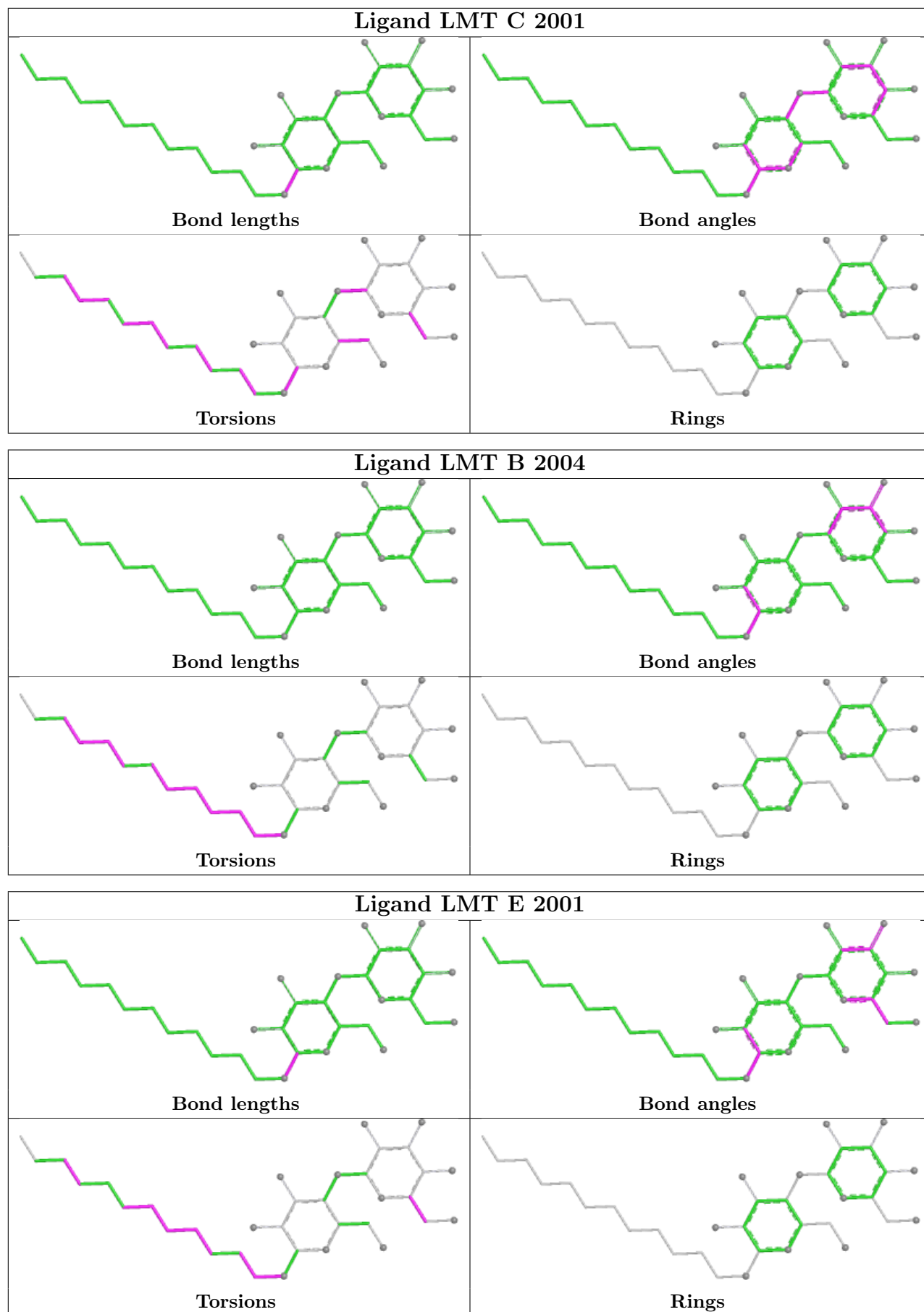
There are no ring outliers.

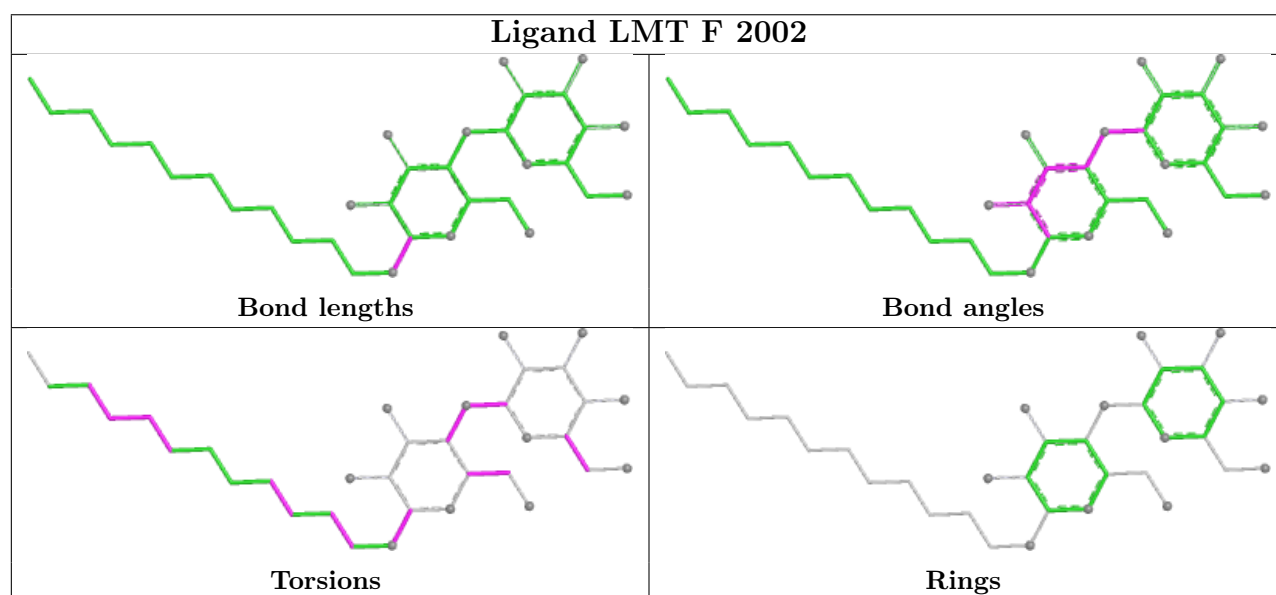
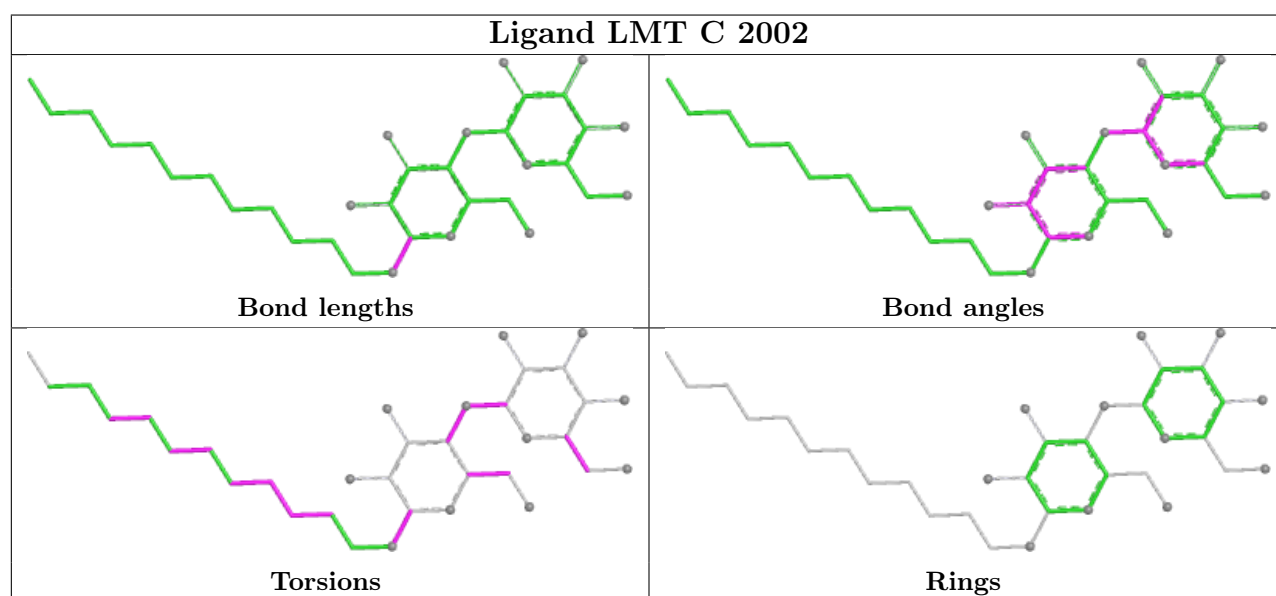
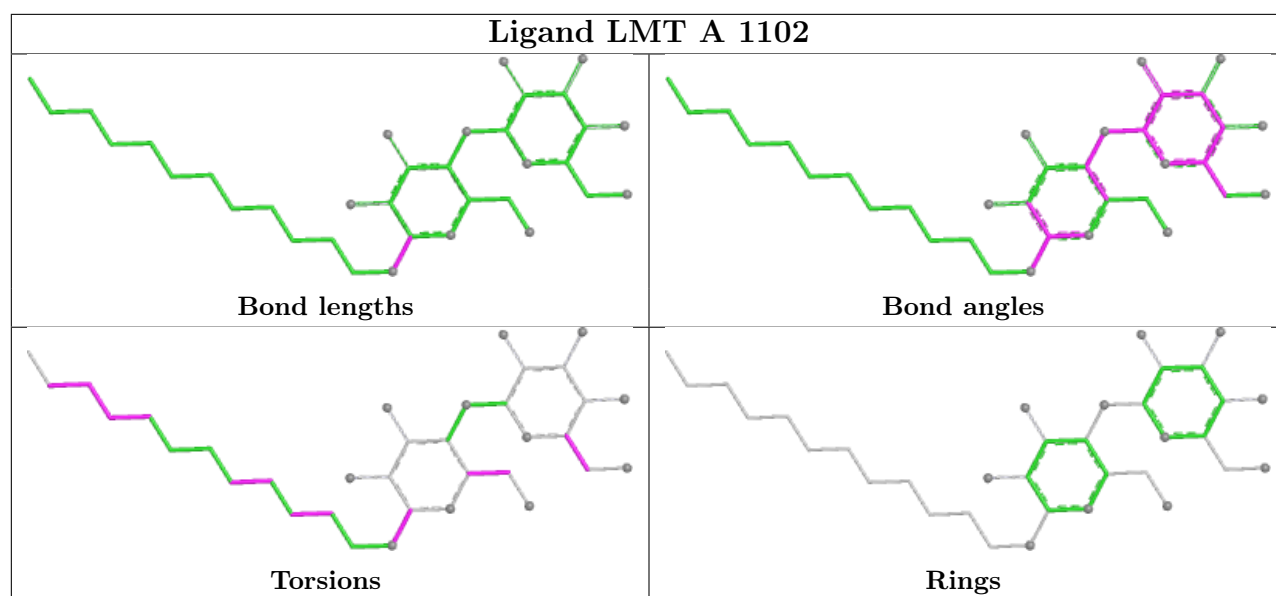
15 monomers are involved in 115 short contacts:

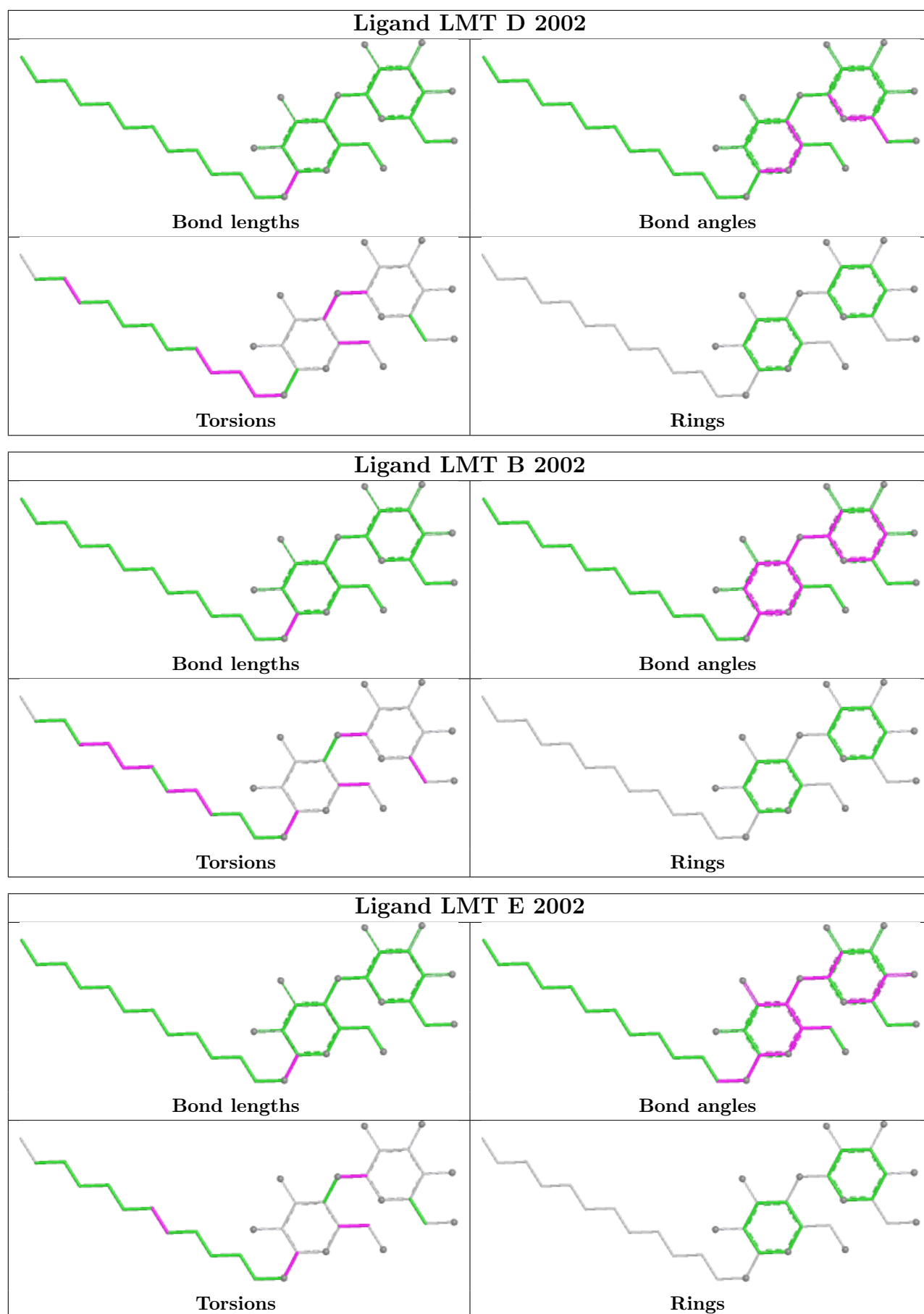
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	F	2001	LMT	7	0
2	C	2001	LMT	4	0
2	B	2004	LMT	4	0
2	E	2001	LMT	21	0
2	A	1102	LMT	6	0
2	C	2002	LMT	14	0
2	F	2002	LMT	2	0
2	D	2002	LMT	3	0
2	B	2002	LMT	1	0
2	E	2002	LMT	23	0
2	B	2003	LMT	5	0
2	B	2001	LMT	19	0
2	D	2001	LMT	9	0
2	D	2003	LMT	2	0
2	A	1101	LMT	6	0

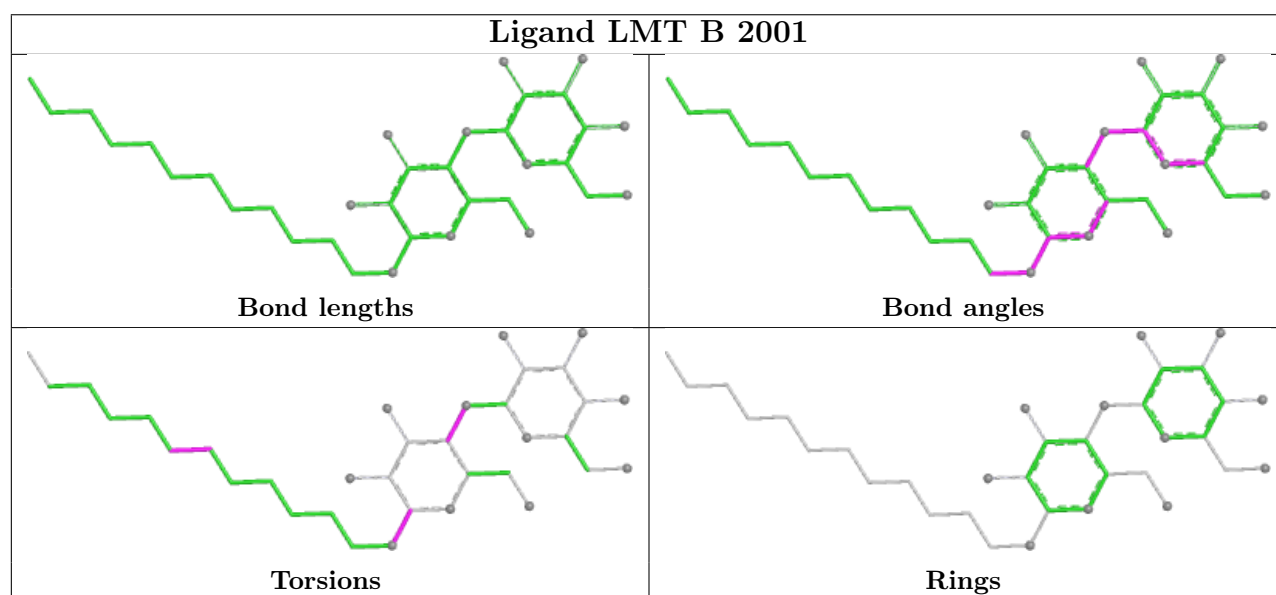
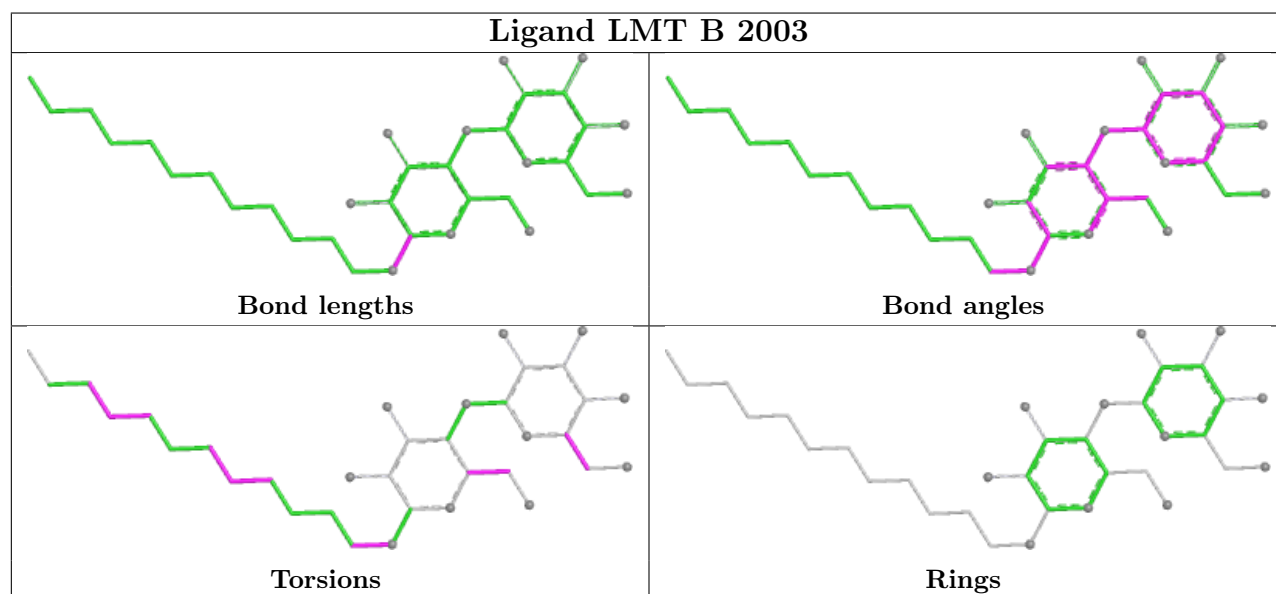
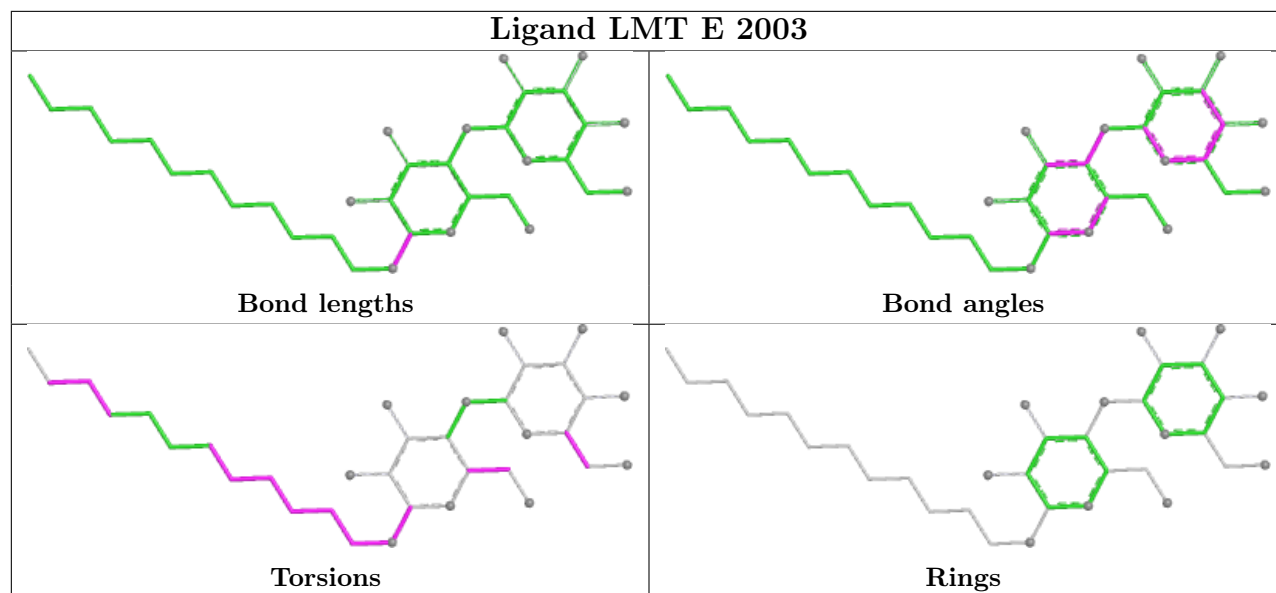
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 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.

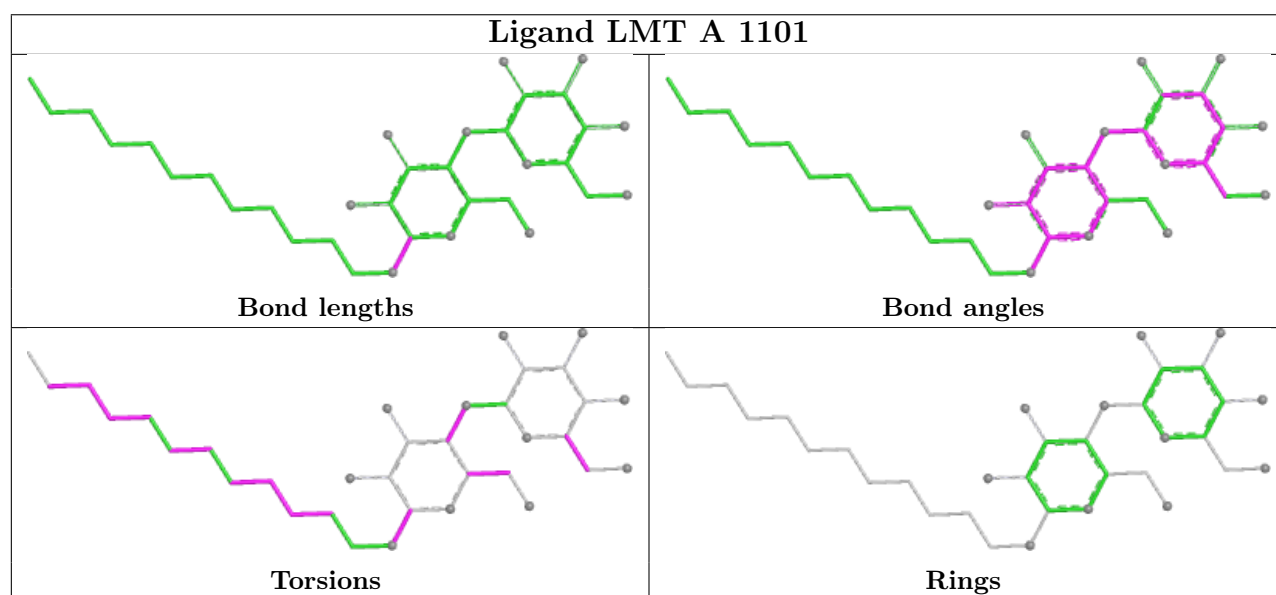
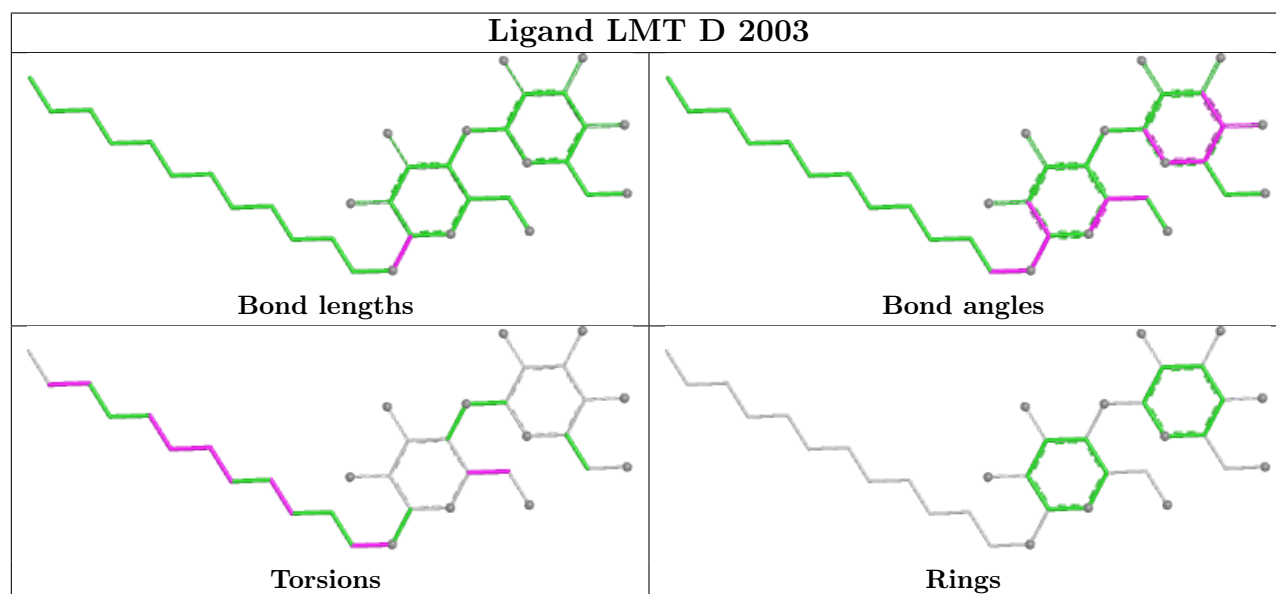
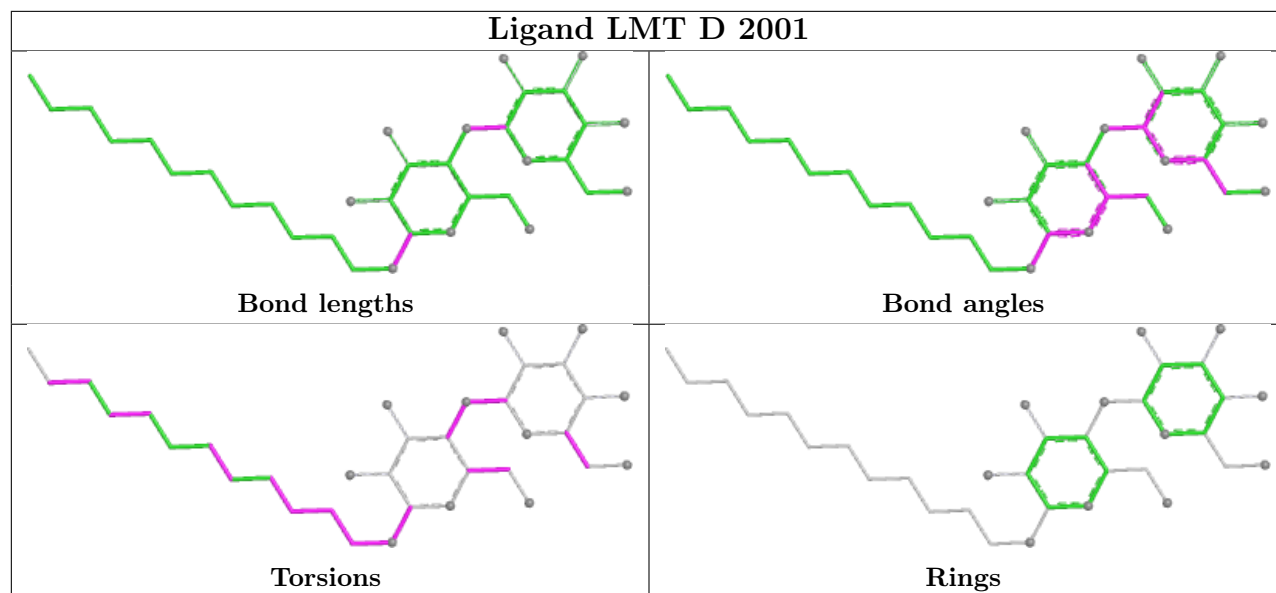












5.7 Other polymers [i](#)

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, 95th 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	1017/1046 (97%)	1.59	316 (31%) 1 1	32, 75, 118, 160	0
1	B	1030/1046 (98%)	1.37	238 (23%) 2 2	29, 69, 112, 139	0
1	C	1030/1046 (98%)	1.61	319 (30%) 1 1	38, 77, 131, 172	0
1	D	1020/1046 (97%)	1.59	288 (28%) 1 1	29, 77, 121, 165	0
1	E	1030/1046 (98%)	1.63	332 (32%) 1 1	37, 83, 126, 159	0
1	F	1033/1046 (98%)	1.62	333 (32%) 1 1	39, 78, 132, 178	0
All	All	6160/6276 (98%)	1.57	1826 (29%) 1 1	29, 76, 125, 178	0

All (1826) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	853	GLY	8.6
1	E	599	LEU	8.0
1	D	786	SER	7.6
1	C	742	LEU	7.5
1	A	937	SER	7.3
1	E	774	GLY	6.9
1	F	86	GLY	6.8
1	B	598	LEU	6.7
1	D	559	ILE	6.7
1	D	219	LEU	6.6
1	C	268	VAL	6.5
1	E	726	TYR	6.5
1	D	593	SER	6.5
1	B	605	SER	6.4
1	D	700	ASN	6.3
1	F	582	SER	6.2
1	D	651	ALA	6.2
1	A	979	ALA	6.1
1	F	742	LEU	6.0

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Mol	Chain	Res	Type	RSRZ
1	E	243	ALA	6.0
1	C	217	GLY	5.9
1	B	570	GLY	5.9
1	A	320	GLY	5.8
1	B	253	VAL	5.8
1	B	748	THR	5.8
1	F	698	ALA	5.7
1	A	874	ALA	5.6
1	F	647	LEU	5.5
1	C	853	GLY	5.5
1	D	272	GLY	5.5
1	D	562	ALA	5.4
1	A	899	SER	5.4
1	D	255	PRO	5.4
1	D	252	LYS	5.3
1	E	1011	THR	5.3
1	E	598	LEU	5.3
1	A	571	VAL	5.3
1	B	589	VAL	5.3
1	A	839	ALA	5.3
1	C	812	SER	5.3
1	C	410	ILE	5.3
1	A	546	VAL	5.3
1	B	785	LEU	5.2
1	A	436	GLY	5.1
1	B	361	ASN	5.1
1	A	707	ALA	5.0
1	F	737	ALA	5.0
1	E	917	MET	5.0
1	C	719	GLY	5.0
1	D	693	GLU	5.0
1	D	997	SER	4.9
1	E	862	SER	4.9
1	A	850	LEU	4.9
1	F	28	LEU	4.9
1	D	888	ALA	4.9
1	D	362	PHE	4.9
1	F	47	VAL	4.8
1	D	320	GLY	4.8
1	D	800	PHE	4.8
1	D	271	GLY	4.8
1	A	367	ILE	4.8

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Mol	Chain	Res	Type	RSRZ
1	B	144	SER	4.8
1	E	506	GLY	4.8
1	A	362	PHE	4.8
1	E	230	LEU	4.8
1	E	305	ALA	4.7
1	D	216	SER	4.7
1	E	630	MET	4.7
1	B	324	VAL	4.7
1	F	410	ILE	4.7
1	E	1015	LEU	4.7
1	F	743	ALA	4.6
1	D	929	GLY	4.6
1	C	33	ASN	4.6
1	A	581	GLY	4.6
1	D	283	GLY	4.6
1	D	748	THR	4.6
1	F	666	PHE	4.6
1	F	721	SER	4.6
1	A	499	PRO	4.6
1	F	583	SER	4.6
1	B	159	VAL	4.6
1	B	751	ILE	4.6
1	B	141	GLY	4.5
1	D	943	LEU	4.5
1	E	21	LEU	4.5
1	E	783	ASP	4.5
1	A	657	SER	4.5
1	C	745	ILE	4.5
1	C	627	ALA	4.5
1	D	711	ALA	4.5
1	B	712	LEU	4.5
1	C	595	ARG	4.5
1	D	324	VAL	4.5
1	C	916	SER	4.4
1	D	217	GLY	4.4
1	B	606	VAL	4.4
1	A	706	ALA	4.4
1	C	661	ALA	4.4
1	F	804	ALA	4.4
1	A	360	GLN	4.4
1	C	805	THR	4.4
1	E	57	VAL	4.4

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Mol	Chain	Res	Type	RSRZ
1	F	51	GLY	4.4
1	E	549	VAL	4.4
1	E	589	VAL	4.4
1	B	599	LEU	4.4
1	C	667	ALA	4.4
1	B	236	GLY	4.4
1	F	739	GLY	4.4
1	C	599	LEU	4.3
1	D	83	ASN	4.3
1	A	948	ALA	4.3
1	C	320	GLY	4.3
1	F	554	TRP	4.3
1	C	193	LEU	4.3
1	A	255	PRO	4.3
1	F	639	GLY	4.3
1	E	680	PHE	4.3
1	A	260	VAL	4.3
1	F	118	LEU	4.2
1	A	619	GLY	4.2
1	F	762	ILE	4.2
1	E	780	MET	4.2
1	E	557	THR	4.2
1	F	120	GLN	4.2
1	E	916	SER	4.2
1	A	1017	ILE	4.2
1	C	512	PHE	4.2
1	E	169	THR	4.2
1	A	676	ASN	4.1
1	E	551	GLY	4.1
1	D	246	PHE	4.1
1	D	516	PHE	4.1
1	E	627	ALA	4.1
1	F	958	ILE	4.1
1	D	658	PHE	4.1
1	F	26	SER	4.1
1	C	578	THR	4.1
1	D	988	ALA	4.1
1	F	156	ASN	4.1
1	B	451	ALA	4.1
1	F	688	ALA	4.1
1	D	725	GLN	4.0
1	C	597	TYR	4.0

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Mol	Chain	Res	Type	RSRZ
1	E	675	GLY	4.0
1	E	830	PRO	4.0
1	C	243	ALA	4.0
1	F	403	GLY	4.0
1	F	753	TRP	4.0
1	E	590	VAL	4.0
1	C	741	SER	4.0
1	E	688	ALA	4.0
1	A	828	GLY	4.0
1	C	639	GLY	4.0
1	E	781	ASN	4.0
1	B	142	VAL	4.0
1	A	618	ALA	4.0
1	C	272	GLY	4.0
1	E	800	PHE	4.0
1	A	840	MET	4.0
1	C	260	VAL	4.0
1	F	606	VAL	4.0
1	A	1011	THR	3.9
1	A	623	SER	3.9
1	C	582	SER	3.9
1	C	846	ILE	3.9
1	C	808	TRP	3.9
1	B	792	ASN	3.9
1	B	593	SER	3.9
1	D	582	SER	3.9
1	A	711	ALA	3.9
1	E	814	LYS	3.9
1	E	827	LEU	3.9
1	F	562	ALA	3.9
1	A	929	GLY	3.9
1	A	556	PHE	3.9
1	E	834	LEU	3.9
1	F	598	LEU	3.9
1	C	983	GLY	3.9
1	D	260	VAL	3.9
1	E	47	VAL	3.9
1	F	740	VAL	3.9
1	E	699	ARG	3.9
1	A	685	GLN	3.9
1	D	750	SER	3.9
1	D	816	GLU	3.9

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Mol	Chain	Res	Type	RSRZ
1	A	682	LEU	3.9
1	A	684	LEU	3.9
1	F	846	ILE	3.9
1	F	985	VAL	3.9
1	D	633	PRO	3.8
1	F	805	THR	3.8
1	A	249	ILE	3.8
1	B	951	LEU	3.8
1	C	15	ILE	3.8
1	C	277	ILE	3.8
1	E	654	HIS	3.8
1	C	737	ALA	3.8
1	D	269	GLY	3.8
1	E	869	GLY	3.8
1	A	976	THR	3.8
1	F	199	THR	3.8
1	A	826	ILE	3.8
1	A	827	LEU	3.8
1	C	682	LEU	3.8
1	D	12	ALA	3.8
1	E	804	ALA	3.8
1	E	316	PHE	3.8
1	B	62	VAL	3.8
1	B	790	VAL	3.8
1	B	248	ASN	3.8
1	D	772	LEU	3.8
1	C	623	SER	3.8
1	B	1012	ALA	3.8
1	C	778	ALA	3.8
1	D	335	ALA	3.8
1	A	512	PHE	3.8
1	D	57	VAL	3.8
1	D	253	VAL	3.8
1	B	597	TYR	3.8
1	E	214	ILE	3.8
1	F	471	SER	3.8
1	D	220	GLY	3.8
1	E	996	GLY	3.8
1	A	1025	VAL	3.8
1	C	517	ASN	3.7
1	C	997	SER	3.7
1	F	914	ALA	3.7

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Mol	Chain	Res	Type	RSRZ
1	A	625	GLY	3.7
1	D	919	GLY	3.7
1	D	1014	VAL	3.7
1	F	589	VAL	3.7
1	A	193	LEU	3.7
1	C	642	ASN	3.7
1	E	515	TRP	3.7
1	D	183	SER	3.7
1	D	828	GLY	3.7
1	E	183	SER	3.7
1	D	673	GLU	3.7
1	F	738	LEU	3.7
1	C	10	ILE	3.7
1	F	808	TRP	3.7
1	B	667	ALA	3.7
1	C	191	ALA	3.7
1	D	995	SER	3.7
1	F	990	SER	3.7
1	E	985	VAL	3.7
1	F	116	PRO	3.7
1	D	149	MET	3.7
1	C	383	LEU	3.7
1	A	650	ARG	3.7
1	B	286	ALA	3.7
1	C	206	ALA	3.7
1	F	397	GLY	3.7
1	A	633	PRO	3.7
1	C	285	PRO	3.7
1	A	703	LEU	3.6
1	C	801	ASN	3.6
1	B	515	TRP	3.6
1	C	911	ALA	3.6
1	E	771	TYR	3.6
1	F	144	SER	3.6
1	C	563	PHE	3.6
1	E	591	VAL	3.6
1	E	759	ASN	3.6
1	C	409	ALA	3.6
1	F	870	SER	3.6
1	C	740	VAL	3.6
1	F	984	VAL	3.6
1	E	685	GLN	3.6

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Mol	Chain	Res	Type	RSRZ
1	A	535	LEU	3.6
1	A	78	ILE	3.6
1	F	231	ASN	3.6
1	E	788	TRP	3.6
1	D	147	GLY	3.6
1	E	221	GLY	3.6
1	F	831	ALA	3.6
1	C	149	MET	3.6
1	F	645	PHE	3.6
1	B	195	SER	3.6
1	C	411	VAL	3.6
1	D	821	VAL	3.6
1	D	728	LEU	3.6
1	D	867	LEU	3.6
1	E	787	LYS	3.6
1	D	153	ASP	3.6
1	A	567	GLU	3.6
1	F	82	SER	3.6
1	D	766	ARG	3.5
1	D	557	THR	3.5
1	A	938	ALA	3.5
1	F	614	GLY	3.5
1	F	9	PRO	3.5
1	C	35	TYR	3.5
1	D	549	VAL	3.5
1	E	64	VAL	3.5
1	D	463	THR	3.5
1	C	266	ALA	3.5
1	C	996	GLY	3.5
1	F	581	GLY	3.5
1	B	883	VAL	3.5
1	C	198	LEU	3.5
1	D	546	VAL	3.5
1	C	518	ARG	3.5
1	F	558	ARG	3.5
1	C	158	ILE	3.5
1	E	745	ILE	3.5
1	B	252	LYS	3.5
1	D	266	ALA	3.5
1	A	658	PHE	3.5
1	B	725	GLN	3.5
1	F	800	PHE	3.5

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Mol	Chain	Res	Type	RSRZ
1	B	903	VAL	3.5
1	E	758	VAL	3.5
1	F	56	THR	3.5
1	F	83	ASN	3.5
1	E	229	GLN	3.5
1	E	338	HIS	3.5
1	E	683	PHE	3.5
1	B	767	VAL	3.5
1	E	753	TRP	3.5
1	F	419	VAL	3.5
1	F	185	ARG	3.5
1	C	500	ILE	3.4
1	D	78	ILE	3.4
1	E	757	TYR	3.4
1	D	879	SER	3.4
1	A	661	ALA	3.4
1	A	735	ALA	3.4
1	C	718	ASN	3.4
1	D	619	GLY	3.4
1	E	813	PRO	3.4
1	D	30	LEU	3.4
1	D	230	LEU	3.4
1	A	755	SER	3.4
1	F	608	SER	3.4
1	A	673	GLU	3.4
1	B	574	ALA	3.4
1	B	754	GLY	3.4
1	B	765	GLY	3.4
1	C	539	ALA	3.4
1	D	164	ASP	3.4
1	E	385	ALA	3.4
1	E	702	PHE	3.4
1	A	354	VAL	3.4
1	C	903	VAL	3.4
1	E	235	ILE	3.4
1	E	195	SER	3.4
1	E	721	SER	3.4
1	E	329	THR	3.4
1	D	724	PRO	3.4
1	A	705	LEU	3.4
1	E	576	VAL	3.4
1	F	924	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
1	E	337	ILE	3.4
1	F	48	SER	3.4
1	F	183	SER	3.4
1	F	285	PRO	3.4
1	A	305	ALA	3.4
1	A	957	GLY	3.4
1	C	871	GLN	3.4
1	E	266	ALA	3.4
1	A	568	ASP	3.4
1	B	759	ASN	3.4
1	D	722	ASP	3.4
1	A	1023	PHE	3.4
1	D	591	VAL	3.4
1	A	818	TYR	3.3
1	B	786	SER	3.3
1	A	678	THR	3.3
1	C	93	THR	3.3
1	A	737	ALA	3.3
1	E	191	ALA	3.3
1	F	311	ALA	3.3
1	B	225	VAL	3.3
1	C	212	VAL	3.3
1	C	547	VAL	3.3
1	D	790	VAL	3.3
1	F	628	PHE	3.3
1	F	1031	PHE	3.3
1	E	846	ILE	3.3
1	E	624	SER	3.3
1	C	542	LEU	3.3
1	D	782	PRO	3.3
1	E	560	PRO	3.3
1	F	315	PRO	3.3
1	A	955	GLY	3.3
1	C	1016	ALA	3.3
1	D	514	GLY	3.3
1	E	1002	GLY	3.3
1	A	612	VAL	3.3
1	B	246	PHE	3.3
1	C	531	VAL	3.3
1	D	1027	VAL	3.3
1	E	225	VAL	3.3
1	E	207	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
1	A	476	SER	3.3
1	C	624	SER	3.3
1	A	75	LEU	3.3
1	F	113	LEU	3.3
1	A	526	GLY	3.3
1	C	86	GLY	3.3
1	B	706	ALA	3.3
1	F	54	ALA	3.3
1	A	253	VAL	3.3
1	A	702	PHE	3.3
1	D	758	VAL	3.3
1	E	903	VAL	3.3
1	E	595	ARG	3.3
1	B	703	LEU	3.3
1	C	1028	SER	3.3
1	D	188	LEU	3.3
1	D	258	SER	3.3
1	E	48	SER	3.3
1	E	906	LEU	3.3
1	A	555	MET	3.3
1	C	999	HIS	3.3
1	F	273	GLN	3.3
1	D	494	ALA	3.3
1	E	706	ALA	3.3
1	F	735	ALA	3.3
1	C	612	VAL	3.3
1	E	784	ASP	3.3
1	F	515	TRP	3.2
1	A	166	LEU	3.2
1	B	704	MET	3.2
1	B	991	THR	3.2
1	F	84	SER	3.2
1	F	812	SER	3.2
1	A	71	GLY	3.2
1	D	581	GLY	3.2
1	D	648	ALA	3.2
1	B	924	VAL	3.2
1	C	253	VAL	3.2
1	D	958	ILE	3.2
1	F	214	ILE	3.2
1	A	135	ASN	3.2
1	C	427	PRO	3.2

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Mol	Chain	Res	Type	RSRZ
1	C	864	GLU	3.2
1	F	525	HIS	3.2
1	B	929	GLY	3.2
1	D	23	GLY	3.2
1	F	389	SER	3.2
1	F	741	SER	3.2
1	A	311	ALA	3.2
1	A	888	ALA	3.2
1	C	948	ALA	3.2
1	A	563	PHE	3.2
1	D	162	ILE	3.2
1	D	386	PHE	3.2
1	E	1014	VAL	3.2
1	F	235	ILE	3.2
1	C	602	GLU	3.2
1	A	580	PRO	3.2
1	C	190	PRO	3.2
1	E	540	PRO	3.2
1	E	832	PRO	3.2
1	F	540	PRO	3.2
1	C	365	THR	3.2
1	A	593	SER	3.2
1	A	868	SER	3.2
1	B	992	GLY	3.2
1	C	171	GLY	3.2
1	F	643	SER	3.2
1	F	182	TYR	3.2
1	B	579	PRO	3.2
1	C	654	HIS	3.2
1	D	315	PRO	3.2
1	E	724	PRO	3.2
1	F	123	GLN	3.2
1	B	1011	THR	3.2
1	D	788	TRP	3.2
1	A	551	GLY	3.2
1	F	828	GLY	3.2
1	A	522	SER	3.2
1	E	215	SER	3.2
1	E	657	SER	3.2
1	F	209	ALA	3.2
1	F	661	ALA	3.2
1	F	872	ALA	3.2

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Mol	Chain	Res	Type	RSRZ
1	F	249	ILE	3.2
1	C	139	VAL	3.2
1	F	847	VAL	3.2
1	F	188	LEU	3.1
1	E	799	PRO	3.1
1	A	858	TRP	3.1
1	F	719	GLY	3.1
1	B	364	ALA	3.1
1	D	286	ALA	3.1
1	B	546	VAL	3.1
1	F	332	VAL	3.1
1	F	653	MET	3.1
1	A	933	THR	3.1
1	D	935	GLY	3.1
1	A	911	ALA	3.1
1	E	186	ILE	3.1
1	C	589	VAL	3.1
1	D	666	PHE	3.1
1	A	77	TYR	3.1
1	C	182	TYR	3.1
1	D	771	TYR	3.1
1	E	676	ASN	3.1
1	D	865	GLU	3.1
1	F	822	PRO	3.1
1	E	991	THR	3.1
1	A	16	ALA	3.1
1	A	841	ALA	3.1
1	B	500	ILE	3.1
1	D	27	ILE	3.1
1	E	874	ALA	3.1
1	D	465	VAL	3.1
1	D	803	PHE	3.1
1	E	143	VAL	3.1
1	E	928	VAL	3.1
1	F	522	SER	3.1
1	F	597	TYR	3.1
1	A	454	LEU	3.1
1	B	350	LEU	3.1
1	D	262	LEU	3.1
1	A	585	GLU	3.1
1	D	141	GLY	3.1
1	A	677	ALA	3.1

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Mol	Chain	Res	Type	RSRZ
1	C	421	ALA	3.1
1	A	656	PHE	3.1
1	A	664	PHE	3.1
1	B	740	VAL	3.1
1	C	653	MET	3.1
1	C	662	MET	3.1
1	D	1010	VAL	3.1
1	F	323	VAL	3.1
1	A	721	SER	3.1
1	B	850	LEU	3.0
1	C	188	LEU	3.0
1	E	703	LEU	3.0
1	B	338	HIS	3.0
1	A	919	GLY	3.0
1	E	1007	GLY	3.0
1	F	115	THR	3.0
1	F	158	ILE	3.0
1	B	494	ALA	3.0
1	B	637	ARG	3.0
1	C	584	ALA	3.0
1	C	665	ALA	3.0
1	D	206	ALA	3.0
1	D	1012	ALA	3.0
1	E	286	ALA	3.0
1	F	446	ALA	3.0
1	E	609	VAL	3.0
1	E	666	PHE	3.0
1	F	159	VAL	3.0
1	F	843	VAL	3.0
1	B	334	SER	3.0
1	D	670	SER	3.0
1	F	155	SER	3.0
1	A	834	LEU	3.0
1	E	696	LEU	3.0
1	F	313	LEU	3.0
1	A	414	GLU	3.0
1	F	314	GLU	3.0
1	D	799	PRO	3.0
1	E	669	PRO	3.0
1	B	762	ILE	3.0
1	C	185	ARG	3.0
1	C	559	ILE	3.0

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Mol	Chain	Res	Type	RSRZ
1	D	288	GLY	3.0
1	E	762	ILE	3.0
1	F	261	ARG	3.0
1	F	363	ARG	3.0
1	F	824	MET	3.0
1	C	651	ALA	3.0
1	E	658	PHE	3.0
1	E	664	PHE	3.0
1	F	253	VAL	3.0
1	B	313	LEU	3.0
1	C	219	LEU	3.0
1	C	836	SER	3.0
1	D	902	LEU	3.0
1	F	25	LEU	3.0
1	F	916	SER	3.0
1	A	616	ASN	3.0
1	B	312	ASN	3.0
1	F	327	TYR	3.0
1	F	897	PRO	3.0
1	A	438	ILE	3.0
1	C	720	MET	3.0
1	A	578	THR	3.0
1	A	584	ALA	3.0
1	D	667	ALA	3.0
1	E	52	ALA	3.0
1	E	752	ALA	3.0
1	C	680	PHE	3.0
1	D	177	VAL	3.0
1	E	671	VAL	3.0
1	E	740	VAL	3.0
1	F	143	VAL	3.0
1	D	705	LEU	3.0
1	F	222	LEU	3.0
1	F	87	SER	3.0
1	A	437	GLN	3.0
1	B	134	LYS	3.0
1	C	734	LYS	3.0
1	C	420	MET	3.0
1	A	234	ILE	3.0
1	B	981	ILE	3.0
1	D	277	ILE	3.0
1	B	330	THR	3.0

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Mol	Chain	Res	Type	RSRZ
1	B	343	THR	3.0
1	C	51	GLY	3.0
1	C	145	THR	3.0
1	E	387	GLY	3.0
1	F	640	GLY	3.0
1	A	191	ALA	3.0
1	C	550	ALA	3.0
1	C	872	ALA	3.0
1	D	224	ALA	3.0
1	D	279	ALA	3.0
1	A	64	VAL	3.0
1	B	591	VAL	3.0
1	C	246	PHE	3.0
1	C	904	VAL	3.0
1	E	612	VAL	3.0
1	F	64	VAL	3.0
1	F	798	VAL	3.0
1	A	425	LEU	2.9
1	E	250	LEU	2.9
1	C	481	SER	2.9
1	D	977	SER	2.9
1	A	552	MET	2.9
1	F	85	ASP	2.9
1	F	704	MET	2.9
1	A	337	ILE	2.9
1	C	762	ILE	2.9
1	D	1011	THR	2.9
1	E	611	THR	2.9
1	A	842	ALA	2.9
1	B	627	ALA	2.9
1	A	225	VAL	2.9
1	B	1014	VAL	2.9
1	A	230	LEU	2.9
1	C	349	LEU	2.9
1	E	339	GLU	2.9
1	E	455	PRO	2.9
1	B	167	SER	2.9
1	C	893	SER	2.9
1	F	747	SER	2.9
1	D	35	TYR	2.9
1	E	686	ASP	2.9
1	B	370	ILE	2.9

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Mol	Chain	Res	Type	RSRZ
1	D	544	ILE	2.9
1	D	130	THR	2.9
1	A	303	ALA	2.9
1	A	479	ALA	2.9
1	D	707	ALA	2.9
1	B	465	VAL	2.9
1	B	612	VAL	2.9
1	B	366	LEU	2.9
1	D	270	LEU	2.9
1	F	696	LEU	2.9
1	D	864	GLU	2.9
1	E	462	SER	2.9
1	E	623	SER	2.9
1	D	529	ARG	2.9
1	E	231	ASN	2.9
1	E	616	ASN	2.9
1	E	544	ILE	2.9
1	E	730	ILE	2.9
1	E	826	ILE	2.9
1	D	464	GLY	2.9
1	A	524	THR	2.9
1	C	523	THR	2.9
1	E	115	THR	2.9
1	F	89	THR	2.9
1	A	947	PHE	2.9
1	B	230	LEU	2.9
1	B	341	VAL	2.9
1	C	425	LEU	2.9
1	C	947	PHE	2.9
1	D	1020	VAL	2.9
1	E	628	PHE	2.9
1	E	785	LEU	2.9
1	D	244	GLU	2.9
1	A	1021	PRO	2.9
1	A	662	MET	2.9
1	A	786	SER	2.9
1	C	205	SER	2.9
1	F	402	ILE	2.9
1	B	464	GLY	2.9
1	C	1011	THR	2.9
1	D	613	THR	2.9
1	A	177	VAL	2.9

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Mol	Chain	Res	Type	RSRZ
1	B	64	VAL	2.9
1	B	222	LEU	2.9
1	B	344	LEU	2.9
1	E	54	ALA	2.9
1	E	198	LEU	2.9
1	F	841	ALA	2.9
1	B	664	PHE	2.9
1	D	185	ARG	2.8
1	E	575	GLN	2.8
1	A	544	ILE	2.8
1	C	156	ASN	2.8
1	C	249	ILE	2.8
1	D	762	ILE	2.8
1	E	934	ILE	2.8
1	A	356	TYR	2.8
1	B	955	GLY	2.8
1	F	320	GLY	2.8
1	F	322	LYS	2.8
1	A	867	LEU	2.8
1	C	494	ALA	2.8
1	D	240	LEU	2.8
1	E	574	ALA	2.8
1	F	12	ALA	2.8
1	F	329	THR	2.8
1	F	707	ALA	2.8
1	F	1030	LEU	2.8
1	A	419	VAL	2.8
1	D	338	HIS	2.8
1	B	600	GLU	2.8
1	A	634	TRP	2.8
1	D	291	ILE	2.8
1	D	608	SER	2.8
1	E	857	SER	2.8
1	F	195	SER	2.8
1	F	909	ILE	2.8
1	D	161	ASN	2.8
1	D	659	LYS	2.8
1	A	935	GLY	2.8
1	B	257	GLY	2.8
1	B	592	ASP	2.8
1	E	86	GLY	2.8
1	A	863	TYR	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	889	ALA	2.8
1	C	286	ALA	2.8
1	C	356	TYR	2.8
1	E	647	LEU	2.8
1	E	987	LEU	2.8
1	E	56	THR	2.8
1	E	823	ALA	2.8
1	C	615	PHE	2.8
1	C	1005	VAL	2.8
1	E	803	PHE	2.8
1	E	900	VAL	2.8
1	E	662	MET	2.8
1	C	776	PRO	2.8
1	B	826	ILE	2.8
1	D	158	ILE	2.8
1	B	997	SER	2.8
1	B	376	LEU	2.8
1	E	461	GLY	2.8
1	F	193	LEU	2.8
1	F	631	LEU	2.8
1	A	802	ALA	2.8
1	C	524	THR	2.8
1	C	172	VAL	2.8
1	F	508	HIS	2.8
1	C	658	PHE	2.8
1	E	388	PHE	2.8
1	F	591	VAL	2.8
1	F	615	PHE	2.8
1	E	579	PRO	2.8
1	D	151	LYS	2.8
1	D	632	LYS	2.8
1	E	981	ILE	2.8
1	B	604	SER	2.8
1	C	750	SER	2.8
1	D	26	SER	2.8
1	D	84	SER	2.8
1	F	893	SER	2.8
1	F	230	LEU	2.8
1	A	57	VAL	2.8
1	A	865	GLU	2.8
1	A	915	THR	2.8
1	B	12	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
1	B	139	VAL	2.8
1	B	778	ALA	2.8
1	B	802	ALA	2.8
1	D	749	VAL	2.8
1	E	644	VAL	2.8
1	E	661	ALA	2.8
1	F	752	ALA	2.8
1	F	780	MET	2.8
1	B	325	TYR	2.8
1	C	128	ARG	2.8
1	B	455	PRO	2.7
1	F	499	PRO	2.7
1	F	252	LYS	2.7
1	D	337	ILE	2.7
1	F	310	ILE	2.7
1	C	712	LEU	2.7
1	C	721	SER	2.7
1	E	82	SER	2.7
1	E	593	SER	2.7
1	F	148	SER	2.7
1	F	603	SER	2.7
1	C	910	GLY	2.7
1	C	935	GLY	2.7
1	E	283	GLY	2.7
1	A	139	VAL	2.7
1	A	547	VAL	2.7
1	A	667	ALA	2.7
1	A	655	PHE	2.7
1	A	843	VAL	2.7
1	B	932	THR	2.7
1	C	143	VAL	2.7
1	C	923	ASP	2.7
1	E	673	GLU	2.7
1	E	933	THR	2.7
1	F	22	ALA	2.7
1	F	706	ALA	2.7
1	F	512	PHE	2.7
1	A	830	PRO	2.7
1	D	285	PRO	2.7
1	E	954	GLN	2.7
1	A	151	LYS	2.7
1	A	730	ILE	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	235	ILE	2.7
1	C	772	LEU	2.7
1	B	461	GLY	2.7
1	B	653	MET	2.7
1	C	276	SER	2.7
1	C	284	SER	2.7
1	C	345	GLY	2.7
1	C	837	GLY	2.7
1	C	957	GLY	2.7
1	F	283	GLY	2.7
1	F	642	ASN	2.7
1	A	900	VAL	2.7
1	B	707	ALA	2.7
1	B	458	PHE	2.7
1	C	516	PHE	2.7
1	C	566	ASP	2.7
1	E	145	THR	2.7
1	E	421	ALA	2.7
1	C	610	PHE	2.7
1	F	731	ASP	2.7
1	C	165	PRO	2.7
1	F	157	TYR	2.7
1	A	629	ILE	2.7
1	D	981	ILE	2.7
1	E	162	ILE	2.7
1	A	1009	MET	2.7
1	E	684	LEU	2.7
1	A	604	SER	2.7
1	A	670	SER	2.7
1	A	990	SER	2.7
1	B	506	GLY	2.7
1	B	753	TRP	2.7
1	C	820	GLY	2.7
1	D	345	GLY	2.7
1	E	530	GLY	2.7
1	A	528	GLU	2.7
1	D	254	ASN	2.7
1	A	562	ALA	2.7
1	A	965	ALA	2.7
1	B	800	PHE	2.7
1	C	44	ALA	2.7
1	C	54	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
1	E	253	VAL	2.7
1	F	354	VAL	2.7
1	F	574	ALA	2.7
1	A	601	LYS	2.7
1	C	536	LYS	2.7
1	E	580	PRO	2.7
1	F	196	TYR	2.7
1	D	405	LEU	2.7
1	C	464	GLY	2.7
1	D	869	GLY	2.7
1	F	227	GLY	2.7
1	B	135	ASN	2.7
1	B	554	TRP	2.7
1	B	721	SER	2.7
1	D	187	TRP	2.7
1	D	471	SER	2.7
1	D	676	ASN	2.7
1	E	836	SER	2.7
1	F	476	SER	2.7
1	F	616	ASN	2.7
1	A	644	VAL	2.7
1	B	576	VAL	2.7
1	C	57	VAL	2.7
1	A	392	THR	2.7
1	B	933	THR	2.7
1	B	1013	THR	2.7
1	D	54	ALA	2.7
1	D	268	VAL	2.7
1	E	209	ALA	2.7
1	E	260	VAL	2.7
1	F	609	VAL	2.7
1	A	710	PRO	2.7
1	C	813	PRO	2.7
1	D	838	ASP	2.7
1	B	927	GLN	2.6
1	F	49	TYR	2.6
1	C	598	LEU	2.6
1	C	738	LEU	2.6
1	E	543	LEU	2.6
1	B	716	ARG	2.6
1	E	185	ARG	2.6
1	B	795	GLY	2.6

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Mol	Chain	Res	Type	RSRZ
1	C	296	GLY	2.6
1	C	640	GLY	2.6
1	E	1004	GLY	2.6
1	A	649	LYS	2.6
1	A	700	ASN	2.6
1	B	161	ASN	2.6
1	B	642	ASN	2.6
1	C	192	LYS	2.6
1	C	939	LYS	2.6
1	B	677	ALA	2.6
1	B	698	ALA	2.6
1	C	351	VAL	2.6
1	C	562	ALA	2.6
1	C	573	PHE	2.6
1	C	743	ALA	2.6
1	C	753	TRP	2.6
1	E	83	ASN	2.6
1	A	523	THR	2.6
1	B	178	PHE	2.6
1	B	373	PRO	2.6
1	B	613	THR	2.6
1	B	628	PHE	2.6
1	D	103	ALA	2.6
1	F	532	ALA	2.6
1	C	915	THR	2.6
1	E	343	THR	2.6
1	A	164	ASP	2.6
1	A	927	GLN	2.6
1	C	164	ASP	2.6
1	F	686	ASP	2.6
1	A	630	MET	2.6
1	C	377	LEU	2.6
1	F	695	LEU	2.6
1	F	529	ARG	2.6
1	A	632	LYS	2.6
1	A	848	LYS	2.6
1	A	960	GLU	2.6
1	C	811	GLY	2.6
1	E	570	GLY	2.6
1	E	1008	GLY	2.6
1	A	459	PHE	2.6
1	A	574	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	908	VAL	2.6
1	A	985	VAL	2.6
1	B	375	VAL	2.6
1	C	450	SER	2.6
1	D	287	SER	2.6
1	D	576	VAL	2.6
1	E	203	VAL	2.6
1	E	364	ALA	2.6
1	E	1025	VAL	2.6
1	E	897	PRO	2.6
1	F	605	SER	2.6
1	F	624	SER	2.6
1	C	577	GLN	2.6
1	C	981	ILE	2.6
1	D	102	ILE	2.6
1	D	730	ILE	2.6
1	F	10	ILE	2.6
1	A	353	LEU	2.6
1	A	631	LEU	2.6
1	A	887	LEU	2.6
1	B	1015	LEU	2.6
1	D	785	LEU	2.6
1	D	891	TYR	2.6
1	E	712	LEU	2.6
1	F	772	LEU	2.6
1	A	322	LYS	2.6
1	A	860	GLY	2.6
1	F	983	GLY	2.6
1	A	324	VAL	2.6
1	C	254	ASN	2.6
1	D	211	ASN	2.6
1	E	361	ASN	2.6
1	E	409	ALA	2.6
1	E	550	ALA	2.6
1	E	735	ALA	2.6
1	E	749	VAL	2.6
1	F	718	ASN	2.6
1	A	258	SER	2.6
1	C	287	SER	2.6
1	D	587	THR	2.6
1	E	634	TRP	2.6
1	F	91	THR	2.6

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Mol	Chain	Res	Type	RSRZ
1	F	899	SER	2.6
1	E	660	ASP	2.6
1	A	445	ILE	2.6
1	C	402	ILE	2.6
1	E	548	ILE	2.6
1	E	751	ILE	2.6
1	E	909	ILE	2.6
1	F	730	ILE	2.6
1	C	1015	LEU	2.6
1	F	521	LEU	2.6
1	A	541	TYR	2.6
1	A	675	GLY	2.6
1	A	910	GLY	2.6
1	C	514	GLY	2.6
1	A	116	PRO	2.6
1	A	335	ALA	2.6
1	A	740	VAL	2.6
1	A	1005	VAL	2.6
1	B	717	PRO	2.6
1	C	841	ALA	2.6
1	C	897	PRO	2.6
1	D	143	VAL	2.6
1	C	298	ASN	2.6
1	D	706	ALA	2.6
1	E	651	ALA	2.6
1	E	839	ALA	2.6
1	F	1018	PHE	2.6
1	A	93	THR	2.5
1	D	450	SER	2.5
1	D	747	SER	2.5
1	E	144	SER	2.5
1	E	233	THR	2.5
1	C	788	TRP	2.5
1	C	256	ASP	2.5
1	A	846	ILE	2.5
1	A	480	LEU	2.5
1	D	742	LEU	2.5
1	E	716	ARG	2.5
1	F	3	LYS	2.5
1	E	876	TYR	2.5
1	D	585	GLU	2.5
1	F	646	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
1	E	765	GLY	2.5
1	E	910	GLY	2.5
1	E	919	GLY	2.5
1	F	1007	GLY	2.5
1	A	265	VAL	2.5
1	A	924	VAL	2.5
1	A	1010	VAL	2.5
1	B	1025	VAL	2.5
1	C	332	VAL	2.5
1	D	499	PRO	2.5
1	D	776	PRO	2.5
1	E	974	VAL	2.5
1	F	663	VAL	2.5
1	F	928	VAL	2.5
1	A	54	ALA	2.5
1	C	914	ALA	2.5
1	E	947	PHE	2.5
1	F	243	ALA	2.5
1	F	664	PHE	2.5
1	C	533	SER	2.5
1	D	721	SER	2.5
1	F	895	SER	2.5
1	D	256	ASP	2.5
1	B	162	ILE	2.5
1	C	1017	ILE	2.5
1	F	6	ILE	2.5
1	A	674	LEU	2.5
1	C	906	LEU	2.5
1	D	542	LEU	2.5
1	E	76	ARG	2.5
1	E	240	LEU	2.5
1	F	154	LEU	2.5
1	A	257	GLY	2.5
1	A	640	GLY	2.5
1	E	227	GLY	2.5
1	D	972	PRO	2.5
1	A	904	VAL	2.5
1	E	62	VAL	2.5
1	A	352	PHE	2.5
1	B	539	ALA	2.5
1	B	685	GLN	2.5
1	E	584	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
1	E	698	ALA	2.5
1	F	648	ALA	2.5
1	A	917	MET	2.5
1	D	932	THR	2.5
1	E	369	THR	2.5
1	C	29	SER	2.5
1	D	629	ILE	2.5
1	F	794	LYS	2.5
1	A	599	LEU	2.5
1	A	672	LEU	2.5
1	B	262	LEU	2.5
1	B	650	ARG	2.5
1	D	779	ARG	2.5
1	D	850	LEU	2.5
1	B	693	GLU	2.5
1	D	646	GLU	2.5
1	F	757	TYR	2.5
1	F	810	TYR	2.5
1	B	560	PRO	2.5
1	A	725	GLN	2.5
1	B	749	VAL	2.5
1	D	770	VAL	2.5
1	E	197	GLN	2.5
1	F	212	VAL	2.5
1	F	770	VAL	2.5
1	C	698	ALA	2.5
1	C	898	PHE	2.5
1	E	778	ALA	2.5
1	F	44	ALA	2.5
1	B	616	ASN	2.5
1	D	248	ASN	2.5
1	E	298	ASN	2.5
1	A	966	CYS	2.5
1	A	712	LEU	2.5
1	A	835	SER	2.5
1	A	995	SER	2.5
1	C	363	ARG	2.5
1	D	755	SER	2.5
1	E	222	LEU	2.5
1	E	880	LEU	2.5
1	E	732	ASP	2.5
1	B	789	TYR	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	1002	GLY	2.5
1	D	789	TYR	2.5
1	E	190	PRO	2.5
1	B	332	VAL	2.5
1	D	575	GLN	2.5
1	E	652	GLN	2.5
1	E	908	VAL	2.5
1	F	67	GLN	2.5
1	B	224	ALA	2.5
1	C	458	PHE	2.5
1	C	842	ALA	2.5
1	D	451	ALA	2.5
1	D	735	ALA	2.5
1	F	947	PHE	2.5
1	F	848	LYS	2.4
1	F	613	THR	2.4
1	F	748	THR	2.4
1	A	248	ASN	2.4
1	C	766	ARG	2.4
1	F	391	ASN	2.4
1	B	186	ILE	2.4
1	B	934	ILE	2.4
1	C	235	ILE	2.4
1	D	193	LEU	2.4
1	D	826	ILE	2.4
1	D	878	LEU	2.4
1	D	906	LEU	2.4
1	E	402	ILE	2.4
1	E	631	LEU	2.4
1	F	21	LEU	2.4
1	C	183	SER	2.4
1	C	522	SER	2.4
1	C	605	SER	2.4
1	C	899	SER	2.4
1	F	755	SER	2.4
1	A	731	ASP	2.4
1	F	760	ASP	2.4
1	C	507	GLU	2.4
1	B	828	GLY	2.4
1	C	221	GLY	2.4
1	E	704	MET	2.4
1	F	619	GLY	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	954	GLN	2.4
1	C	354	VAL	2.4
1	D	225	VAL	2.4
1	D	342	LYS	2.4
1	D	469	GLN	2.4
1	F	58	GLN	2.4
1	F	546	VAL	2.4
1	A	680	PHE	2.4
1	F	573	PHE	2.4
1	F	1016	ALA	2.4
1	B	60	THR	2.4
1	F	365	THR	2.4
1	A	598	LEU	2.4
1	B	631	LEU	2.4
1	C	647	LEU	2.4
1	C	703	LEU	2.4
1	E	188	LEU	2.4
1	E	383	LEU	2.4
1	F	207	ILE	2.4
1	F	349	LEU	2.4
1	A	608	SER	2.4
1	B	215	SER	2.4
1	D	82	SER	2.4
1	D	148	SER	2.4
1	D	267	ASP	2.4
1	D	407	ASP	2.4
1	A	851	PRO	2.4
1	B	581	GLY	2.4
1	D	811	GLY	2.4
1	D	996	GLY	2.4
1	E	345	GLY	2.4
1	B	848	LYS	2.4
1	A	452	VAL	2.4
1	A	954	GLN	2.4
1	F	475	VAL	2.4
1	F	713	GLN	2.4
1	D	757	TYR	2.4
1	F	904	VAL	2.4
1	B	209	ALA	2.4
1	B	479	ALA	2.4
1	C	802	ALA	2.4
1	E	303	ALA	2.4

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Mol	Chain	Res	Type	RSRZ
1	A	534	ILE	2.4
1	B	250	LEU	2.4
1	C	309	THR	2.4
1	D	377	LEU	2.4
1	F	390	ILE	2.4
1	F	472	ILE	2.4
1	F	572	LEU	2.4
1	F	599	LEU	2.4
1	A	940	ASN	2.4
1	A	643	SER	2.4
1	C	155	SER	2.4
1	D	215	SER	2.4
1	F	160	SER	2.4
1	A	346	GLU	2.4
1	B	662	MET	2.4
1	B	632	LYS	2.4
1	C	632	LYS	2.4
1	D	1021	PRO	2.4
1	E	134	LYS	2.4
1	E	873	PRO	2.4
1	F	255	PRO	2.4
1	F	996	GLY	2.4
1	B	120	GLN	2.4
1	E	531	VAL	2.4
1	F	903	VAL	2.4
1	A	683	PHE	2.4
1	C	335	ALA	2.4
1	D	52	ALA	2.4
1	D	656	PHE	2.4
1	D	761	PHE	2.4
1	A	695	LEU	2.4
1	A	958	ILE	2.4
1	A	1030	LEU	2.4
1	C	521	LEU	2.4
1	D	564	LEU	2.4
1	C	463	THR	2.4
1	C	611	THR	2.4
1	E	578	THR	2.4
1	F	654	HIS	2.4
1	F	759	ASN	2.4
1	A	79	SER	2.4
1	F	501	GLU	2.4

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Mol	Chain	Res	Type	RSRZ
1	D	653	MET	2.4
1	A	886	CYS	2.4
1	B	536	LYS	2.4
1	F	632	LYS	2.4
1	A	668	PRO	2.4
1	D	668	PRO	2.4
1	C	765	GLY	2.4
1	D	689	GLY	2.4
1	D	1008	GLY	2.4
1	F	853	GLY	2.4
1	F	919	GLY	2.4
1	E	697	GLN	2.4
1	E	849	GLN	2.4
1	A	589	VAL	2.4
1	A	971	ARG	2.4
1	B	416	VAL	2.4
1	B	609	VAL	2.4
1	C	847	VAL	2.4
1	D	159	VAL	2.4
1	E	133	VAL	2.4
1	A	286	ALA	2.4
1	A	872	ALA	2.4
1	B	362	PHE	2.4
1	C	656	PHE	2.4
1	C	688	ALA	2.4
1	C	804	ALA	2.4
1	D	191	ALA	2.4
1	F	651	ALA	2.4
1	A	728	LEU	2.3
1	C	250	LEU	2.3
1	C	930	LEU	2.3
1	C	78	ILE	2.3
1	C	751	ILE	2.3
1	E	158	ILE	2.3
1	E	474	ILE	2.3
1	B	233	THR	2.3
1	B	611	THR	2.3
1	E	238	THR	2.3
1	C	840	MET	2.3
1	A	328	ASP	2.3
1	D	276	SER	2.3
1	D	784	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
1	E	53	SER	2.3
1	E	533	SER	2.3
1	F	292	LYS	2.3
1	E	554	TRP	2.3
1	D	905	PRO	2.3
1	B	241	GLN	2.3
1	F	269	GLY	2.3
1	F	689	GLY	2.3
1	C	924	VAL	2.3
1	E	475	VAL	2.3
1	A	446	ALA	2.3
1	A	823	ALA	2.3
1	A	926	PHE	2.3
1	E	224	ALA	2.3
1	E	562	ALA	2.3
1	E	610	PHE	2.3
1	B	705	LEU	2.3
1	E	742	LEU	2.3
1	E	877	ALA	2.3
1	A	472	ILE	2.3
1	D	234	ILE	2.3
1	D	445	ILE	2.3
1	D	745	ILE	2.3
1	F	466	ILE	2.3
1	F	745	ILE	2.3
1	C	541	TYR	2.3
1	D	356	TYR	2.3
1	B	199	THR	2.3
1	C	759	ASN	2.3
1	F	746	ASN	2.3
1	A	807	LYS	2.3
1	B	596	GLU	2.3
1	B	733	GLU	2.3
1	C	138	MET	2.3
1	D	263	LYS	2.3
1	E	87	SER	2.3
1	F	744	ASP	2.3
1	B	223	PRO	2.3
1	D	331	PRO	2.3
1	E	565	PRO	2.3
1	F	717	PRO	2.3
1	A	272	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	460	GLY	2.3
1	B	575	GLN	2.3
1	C	307	ARG	2.3
1	C	697	GLN	2.3
1	D	866	ARG	2.3
1	E	51	GLY	2.3
1	E	526	GLY	2.3
1	F	954	GLN	2.3
1	C	419	VAL	2.3
1	A	377	LEU	2.3
1	A	539	ALA	2.3
1	A	572	LEU	2.3
1	A	861	LEU	2.3
1	C	645	PHE	2.3
1	C	884	PHE	2.3
1	E	380	PHE	2.3
1	E	458	PHE	2.3
1	D	841	ALA	2.3
1	E	1012	ALA	2.3
1	F	251	LEU	2.3
1	F	539	ALA	2.3
1	F	627	ALA	2.3
1	D	214	ILE	2.3
1	C	150	THR	2.3
1	C	495	THR	2.3
1	D	157	TYR	2.3
1	D	810	TYR	2.3
1	E	237	LYS	2.3
1	F	720	MET	2.3
1	D	231	ASN	2.3
1	A	977	SER	2.3
1	D	29	SER	2.3
1	E	264	ASP	2.3
1	E	990	SER	2.3
1	F	657	SER	2.3
1	A	905	PRO	2.3
1	B	326	PRO	2.3
1	C	223	PRO	2.3
1	C	261	ARG	2.3
1	D	124	ARG	2.3
1	E	710	PRO	2.3
1	F	791	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
1	F	873	PRO	2.3
1	A	197	GLN	2.3
1	A	577	GLN	2.3
1	B	24	GLY	2.3
1	C	257	GLY	2.3
1	C	828	GLY	2.3
1	D	259	GLN	2.3
1	E	228	GLN	2.3
1	E	296	GLY	2.3
1	E	828	GLY	2.3
1	F	503	GLY	2.3
1	A	140	VAL	2.3
1	C	546	VAL	2.3
1	C	974	VAL	2.3
1	D	609	VAL	2.3
1	A	386	PHE	2.3
1	B	925	PHE	2.3
1	C	683	PHE	2.3
1	D	682	LEU	2.3
1	E	219	LEU	2.3
1	E	761	PHE	2.3
1	F	520	PHE	2.3
1	C	102	ILE	2.3
1	C	874	ALA	2.3
1	D	802	ALA	2.3
1	E	367	ILE	2.3
1	F	942	ILE	2.3
1	A	654	HIS	2.3
1	A	456	MET	2.3
1	D	169	THR	2.3
1	E	545	TYR	2.3
1	F	356	TYR	2.3
1	A	864	GLU	2.3
1	B	55	GLU	2.3
1	A	709	ASN	2.3
1	D	746	ASN	2.3
1	B	977	SER	2.3
1	C	471	SER	2.3
1	C	604	SER	2.3
1	C	732	ASP	2.3
1	C	273	GLN	2.3
1	B	272	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	910	GLY	2.3
1	C	621	GLY	2.3
1	D	444	GLY	2.3
1	E	754	GLY	2.3
1	E	808	TRP	2.3
1	F	173	GLY	2.3
1	A	531	VAL	2.3
1	A	847	VAL	2.3
1	A	936	LEU	2.3
1	C	749	VAL	2.3
1	C	827	LEU	2.3
1	C	912	LEU	2.3
1	D	393	LEU	2.3
1	D	847	VAL	2.3
1	E	815	LEU	2.3
1	F	690	VAL	2.3
1	D	664	PHE	2.3
1	A	877	ALA	2.2
1	B	888	ALA	2.2
1	C	730	ILE	2.2
1	C	831	ALA	2.2
1	E	44	ALA	2.2
1	E	78	ILE	2.2
1	E	290	ALA	2.2
1	E	534	ILE	2.2
1	E	505	HIS	2.2
1	F	398	MET	2.2
1	A	145	THR	2.2
1	B	585	GLU	2.2
1	D	796	GLU	2.2
1	F	865	GLU	2.2
1	E	597	TYR	2.2
1	A	211	ASN	2.2
1	E	642	ASN	2.2
1	A	699	ARG	2.2
1	A	427	PRO	2.2
1	C	822	PRO	2.2
1	F	851	PRO	2.2
1	B	205	SER	2.2
1	B	603	SER	2.2
1	F	284	SER	2.2
1	F	593	SER	2.2

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Mol	Chain	Res	Type	RSRZ
1	F	652	GLN	2.2
1	E	378	GLY	2.2
1	E	907	GLY	2.2
1	F	345	GLY	2.2
1	A	591	VAL	2.2
1	C	475	VAL	2.2
1	D	572	LEU	2.2
1	E	122	VAL	2.2
1	E	129	VAL	2.2
1	E	486	LEU	2.2
1	E	798	VAL	2.2
1	E	984	VAL	2.2
1	A	698	ALA	2.2
1	A	981	ILE	2.2
1	D	872	ALA	2.2
1	F	1032	LYS	2.2
1	E	626	MET	2.2
1	A	56	THR	2.2
1	D	199	THR	2.2
1	E	121	GLU	2.2
1	E	150	THR	2.2
1	C	278	ASN	2.2
1	D	560	PRO	2.2
1	F	318	PRO	2.2
1	B	204	SER	2.2
1	C	84	SER	2.2
1	C	736	SER	2.2
1	C	754	GLY	2.2
1	C	869	GLY	2.2
1	D	795	GLY	2.2
1	D	853	GLY	2.2
1	F	732	ASP	2.2
1	F	923	ASP	2.2
1	C	1030	LEU	2.2
1	F	920	LEU	2.2
1	D	341	VAL	2.2
1	E	715	VAL	2.2
1	E	924	VAL	2.2
1	A	162	ILE	2.2
1	A	573	PHE	2.2
1	B	917	MET	2.2
1	C	525	HIS	2.2

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Mol	Chain	Res	Type	RSRZ
1	D	548	ILE	2.2
1	E	178	PHE	2.2
1	E	184	MET	2.2
1	E	386	PHE	2.2
1	F	1023	PHE	2.2
1	A	266	ALA	2.2
1	B	266	ALA	2.2
1	C	752	ALA	2.2
1	F	364	ALA	2.2
1	C	501	GLU	2.2
1	E	829	GLU	2.2
1	C	620	ARG	2.2
1	A	856	TYR	2.2
1	B	231	ASN	2.2
1	C	527	TYR	2.2
1	D	325	TYR	2.2
1	E	782	PRO	2.2
1	A	652	GLN	2.2
1	B	773	GLN	2.2
1	C	713	GLN	2.2
1	C	283	GLY	2.2
1	C	359	LEU	2.2
1	C	1002	GLY	2.2
1	E	581	GLY	2.2
1	E	795	GLY	2.2
1	E	2	SER	2.2
1	E	741	SER	2.2
1	F	17	LEU	2.2
1	F	568	ASP	2.2
1	A	105	VAL	2.2
1	C	324	VAL	2.2
1	D	589	VAL	2.2
1	E	105	VAL	2.2
1	E	519	MET	2.2
1	E	690	VAL	2.2
1	A	310	ILE	2.2
1	B	803	PHE	2.2
1	C	629	ILE	2.2
1	C	942	ILE	2.2
1	E	43	ILE	2.2
1	B	841	ALA	2.2
1	D	364	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	646	GLU	2.2
1	C	723	GLU	2.2
1	F	507	GLU	2.2
1	F	816	GLU	2.2
1	E	330	THR	2.2
1	E	587	THR	2.2
1	D	769	ARG	2.2
1	A	254	ASN	2.2
1	A	327	TYR	2.2
1	B	194	ASN	2.2
1	C	415	ASN	2.2
1	C	710	PRO	2.2
1	F	726	TYR	2.2
1	F	228	GLN	2.2
1	F	229	GLN	2.2
1	A	154	LEU	2.2
1	A	440	GLY	2.2
1	A	442	LEU	2.2
1	A	1008	GLY	2.2
1	B	1004	GLY	2.2
1	B	1030	LEU	2.2
1	C	987	LEU	2.2
1	F	850	LEU	2.2
1	F	890	LEU	2.2
1	F	929	GLY	2.2
1	D	568	ASP	2.2
1	A	348	ILE	2.2
1	A	559	ILE	2.2
1	A	663	VAL	2.2
1	B	750	SER	2.2
1	B	882	VAL	2.2
1	C	92	VAL	2.2
1	D	868	SER	2.2
1	E	212	VAL	2.2
1	E	547	VAL	2.2
1	F	505	HIS	2.2
1	F	590	VAL	2.2
1	C	655	PHE	2.2
1	C	926	PHE	2.2
1	E	615	PHE	2.2
1	B	618	ALA	2.1
1	C	888	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	F	52	ALA	2.1
1	D	314	GLU	2.1
1	F	641	GLU	2.1
1	A	115	THR	2.1
1	A	967	ARG	2.1
1	E	60	THR	2.1
1	E	714	ARG	2.1
1	F	239	ARG	2.1
1	A	579	PRO	2.1
1	C	116	PRO	2.1
1	C	540	PRO	2.1
1	E	851	PRO	2.1
1	B	342	LYS	2.1
1	C	208	GLN	2.1
1	E	211	ASN	2.1
1	F	278	ASN	2.1
1	F	697	GLN	2.1
1	B	21	LEU	2.1
1	B	383	LEU	2.1
1	B	404	LEU	2.1
1	B	543	LEU	2.1
1	C	400	LEU	2.1
1	C	867	LEU	2.1
1	F	198	LEU	2.1
1	F	820	GLY	2.1
1	C	777	ASP	2.1
1	A	450	SER	2.1
1	C	786	SER	2.1
1	D	139	VAL	2.1
1	D	144	SER	2.1
1	D	249	ILE	2.1
1	F	90	ILE	2.1
1	F	671	VAL	2.1
1	F	989	ILE	2.1
1	B	645	PHE	2.1
1	B	658	PHE	2.1
1	F	655	PHE	2.1
1	A	651	ALA	2.1
1	E	802	ALA	2.1
1	E	1000	ALA	2.1
1	A	515	TRP	2.1
1	D	634	TRP	2.1

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Mol	Chain	Res	Type	RSRZ
1	D	538	ARG	2.1
1	C	56	THR	2.1
1	C	557	THR	2.1
1	D	329	THR	2.1
1	A	794	LYS	2.1
1	B	192	LYS	2.1
1	C	579	PRO	2.1
1	E	223	PRO	2.1
1	E	776	PRO	2.1
1	F	509	LYS	2.1
1	F	814	LYS	2.1
1	C	68	GLN	2.1
1	C	360	GLN	2.1
1	C	725	GLN	2.1
1	D	577	GLN	2.1
1	E	713	GLN	2.1
1	A	149	MET	2.1
1	A	901	MET	2.1
1	B	674	LEU	2.1
1	C	154	LEU	2.1
1	D	780	MET	2.1
1	F	293	LEU	2.1
1	F	630	MET	2.1
1	F	901	MET	2.1
1	C	378	GLY	2.1
1	E	639	GLY	2.1
1	E	640	GLY	2.1
1	C	900	VAL	2.1
1	C	1014	VAL	2.1
1	D	767	VAL	2.1
1	E	681	ASP	2.1
1	F	78	ILE	2.1
1	F	500	ILE	2.1
1	F	944	ILE	2.1
1	F	974	VAL	2.1
1	A	879	SER	2.1
1	C	800	PHE	2.1
1	D	195	SER	2.1
1	D	1023	PHE	2.1
1	F	362	PHE	2.1
1	B	114	ALA	2.1
1	C	279	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	C	305	ALA	2.1
1	C	707	ALA	2.1
1	E	737	ALA	2.1
1	B	501	GLU	2.1
1	F	247	GLU	2.1
1	F	788	TRP	2.1
1	D	56	THR	2.1
1	A	565	PRO	2.1
1	B	782	PRO	2.1
1	C	560	PRO	2.1
1	C	317	MET	2.1
1	D	652	GLN	2.1
1	A	400	LEU	2.1
1	E	497	LEU	2.1
1	E	521	LEU	2.1
1	E	982	LEU	2.1
1	B	676	ASN	2.1
1	F	886	CYS	2.1
1	B	537	HIS	2.1
1	B	853	GLY	2.1
1	C	506	GLY	2.1
1	C	619	GLY	2.1
1	D	525	HIS	2.1
1	F	126	GLY	2.1
1	A	762	ILE	2.1
1	A	974	VAL	2.1
1	B	265	VAL	2.1
1	B	544	ILE	2.1
1	D	411	VAL	2.1
1	D	571	VAL	2.1
1	E	140	VAL	2.1
1	E	452	VAL	2.1
1	F	27	ILE	2.1
1	F	32	VAL	2.1
1	F	225	VAL	2.1
1	F	790	VAL	2.1
1	A	666	PHE	2.1
1	B	174	ASP	2.1
1	B	666	PHE	2.1
1	B	1018	PHE	2.1
1	C	153	ASP	2.1
1	D	655	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
1	E	281	PHE	2.1
1	F	281	PHE	2.1
1	A	385	ALA	2.1
1	B	953	GLU	2.1
1	C	706	ALA	2.1
1	D	426	SER	2.1
1	D	737	ALA	2.1
1	E	743	ALA	2.1
1	E	868	SER	2.1
1	C	866	ARG	2.1
1	F	279	ALA	2.1
1	F	650	ARG	2.1
1	D	242	THR	2.1
1	A	972	PRO	2.1
1	C	9	PRO	2.1
1	A	213	GLN	2.1
1	E	725	GLN	2.1
1	A	943	LEU	2.1
1	F	542	LEU	2.1
1	D	819	ASN	2.1
1	F	801	ASN	2.1
1	A	147	GLY	2.1
1	A	525	HIS	2.1
1	A	235	ILE	2.1
1	B	1017	ILE	2.1
1	E	356	TYR	2.1
1	A	62	VAL	2.1
1	A	413	VAL	2.1
1	B	18	VAL	2.1
1	E	159	VAL	2.1
1	F	576	VAL	2.1
1	F	900	VAL	2.1
1	A	516	PHE	2.1
1	D	264	ASP	2.0
1	D	563	PHE	2.1
1	E	396	PHE	2.1
1	B	967	ARG	2.0
1	C	791	ARG	2.0
1	D	635	GLU	2.0
1	E	779	ARG	2.0
1	B	39	ALA	2.0
1	B	462	SER	2.0

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Mol	Chain	Res	Type	RSRZ
1	B	550	ALA	2.0
1	B	737	ALA	2.0
1	C	979	ALA	2.0
1	F	244	GLU	2.0
1	D	2	SER	2.0
1	F	215	SER	2.0
1	F	993	ALA	2.0
1	A	727	LYS	2.0
1	B	523	THR	2.0
1	D	115	THR	2.0
1	F	915	THR	2.0
1	F	420	MET	2.0
1	D	697	GLN	2.0
1	E	154	LEU	2.0
1	E	728	LEU	2.0
1	A	338	HIS	2.0
1	A	692	HIS	2.0
1	A	718	ASN	2.0
1	D	940	ASN	2.0
1	A	483	ILE	2.0
1	B	201	GLY	2.0
1	B	553	ILE	2.0
1	C	460	GLY	2.0
1	D	289	ILE	2.0
1	D	621	GLY	2.0
1	E	403	GLY	2.0
1	E	621	GLY	2.0
1	A	757	TYR	2.0
1	B	374	VAL	2.0
1	B	419	VAL	2.0
1	B	985	VAL	2.0
1	C	818	TYR	2.0
1	C	1020	VAL	2.0
1	E	571	VAL	2.0
1	A	898	PHE	2.0
1	A	953	GLU	2.0
1	B	429	GLU	2.0
1	B	761	PHE	2.0
1	F	680	PHE	2.0
1	A	988	ALA	2.0
1	C	311	ALA	2.0
1	D	328	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
1	C	601	LYS	2.0
1	D	618	ALA	2.0
1	F	401	ALA	2.0
1	F	667	ALA	2.0
1	A	84	SER	2.0
1	A	148	SER	2.0
1	B	657	SER	2.0
1	B	741	SER	2.0
1	F	750	SER	2.0
1	B	594	MET	2.0
1	B	630	MET	2.0
1	C	515	TRP	2.0
1	D	704	MET	2.0
1	E	187	TRP	2.0
1	F	634	TRP	2.0
1	F	662	MET	2.0
1	A	318	PRO	2.0
1	B	669	PRO	2.0
1	E	905	PRO	2.0
1	A	987	LEU	2.0
1	B	564	LEU	2.0
1	C	262	LEU	2.0
1	D	349	LEU	2.0
1	E	695	LEU	2.0
1	E	705	LEU	2.0
1	F	682	LEU	2.0
1	A	221	GLY	2.0
1	C	436	GLY	2.0
1	C	774	GLY	2.0
1	D	642	ASN	2.0
1	E	97	GLY	2.0
1	F	514	GLY	2.0
1	F	709	ASN	2.0
1	F	940	ASN	2.0
1	A	1014	VAL	2.0
1	B	323	VAL	2.0
1	B	758	VAL	2.0
1	C	606	VAL	2.0
1	C	609	VAL	2.0
1	D	419	VAL	2.0
1	F	45	VAL	2.0
1	F	716	ARG	2.0

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Mol	Chain	Res	Type	RSRZ
1	F	821	VAL	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](#)

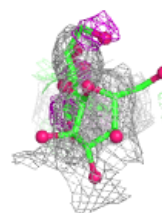
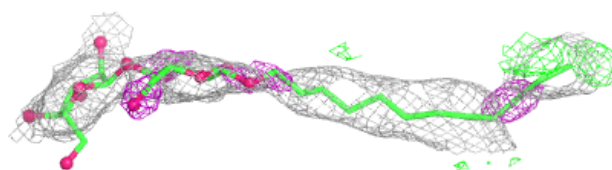
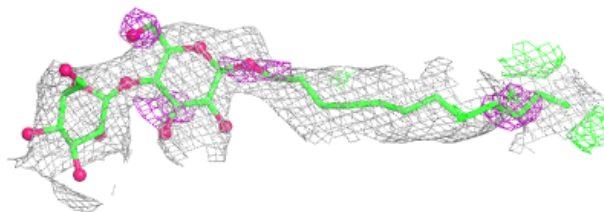
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	LMT	C	2001	35/35	0.66	0.18	43,66,94,103	0
2	LMT	F	2001	35/35	0.66	0.21	82,104,126,139	0
2	LMT	D	2001	35/35	0.67	0.25	47,65,79,89	35
2	LMT	B	2001	35/35	0.67	0.25	75,97,124,139	0
2	LMT	E	2002	35/35	0.69	0.24	67,106,124,132	0
2	LMT	B	2002	35/35	0.70	0.24	63,106,135,137	0
2	LMT	E	2003	35/35	0.72	0.20	67,94,108,124	0
2	LMT	D	2003	35/35	0.72	0.22	70,98,134,144	0
2	LMT	F	2002	35/35	0.74	0.17	76,118,147,148	0
2	LMT	A	1101	35/35	0.75	0.17	60,86,132,142	0
2	LMT	C	2002	35/35	0.75	0.18	80,105,146,151	0
2	LMT	A	1102	35/35	0.76	0.18	64,90,115,120	0
2	LMT	D	2002	35/35	0.79	0.17	69,111,137,144	0
2	LMT	B	2003	35/35	0.80	0.19	71,82,104,111	0
2	LMT	E	2001	35/35	0.83	0.16	67,74,100,103	0
2	LMT	B	2004	35/35	0.88	0.14	62,69,78,84	0

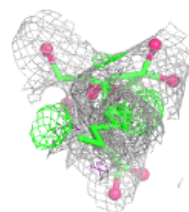
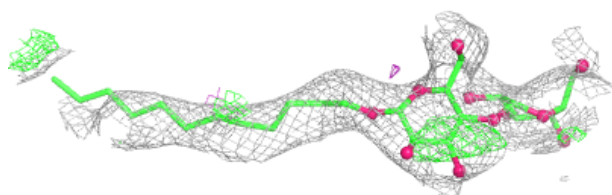
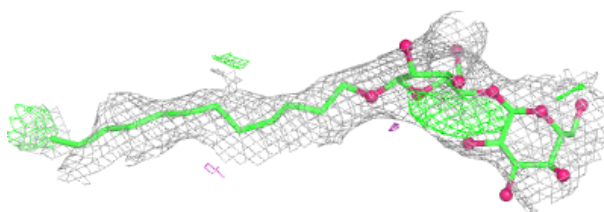
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around LMT C 2001:

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

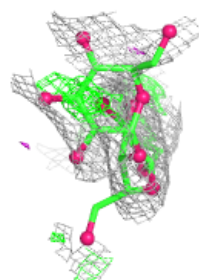
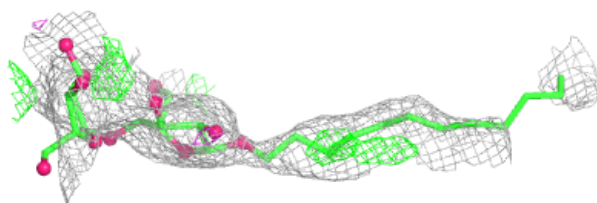
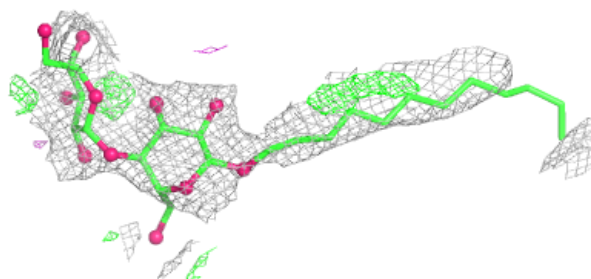
**Electron density around LMT F 2001:**

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

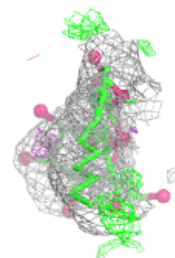
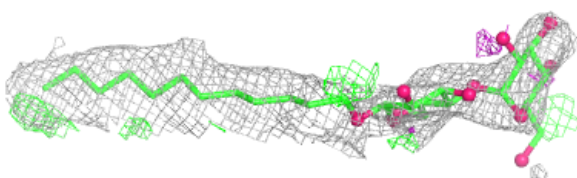
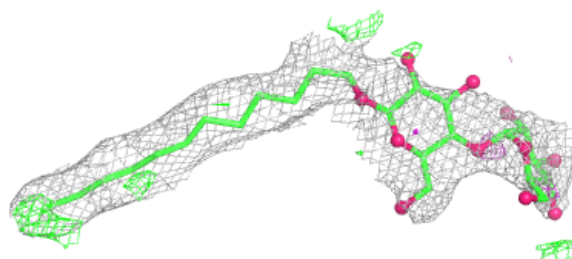


Electron density around LMT D 2001:

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

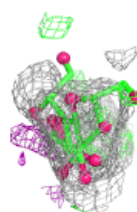
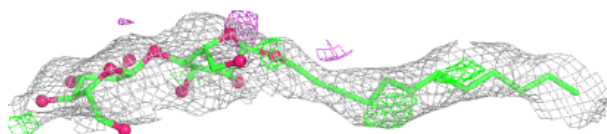
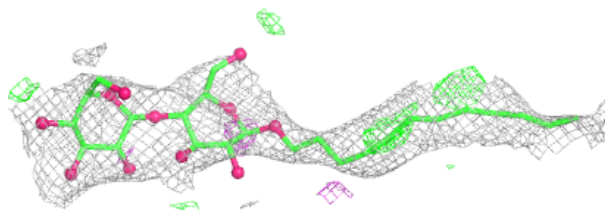
**Electron density around LMT B 2001:**

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

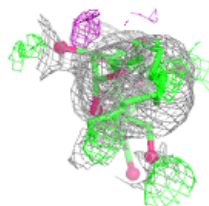
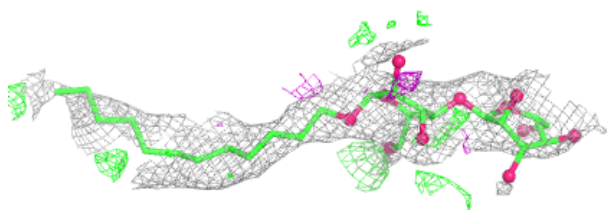
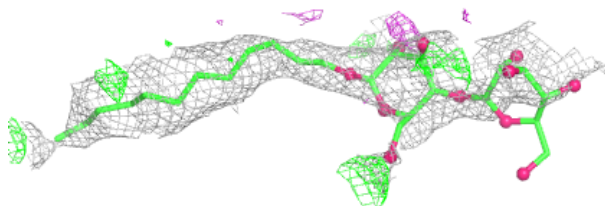


Electron density around LMT E 2002:

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

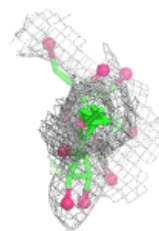
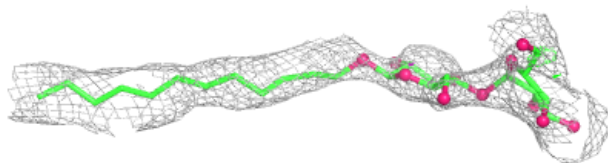
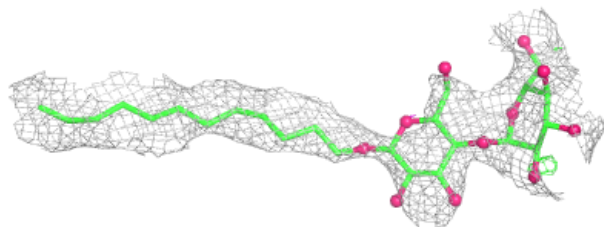
**Electron density around LMT B 2002:**

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

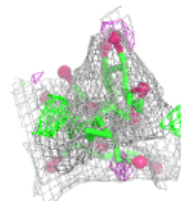
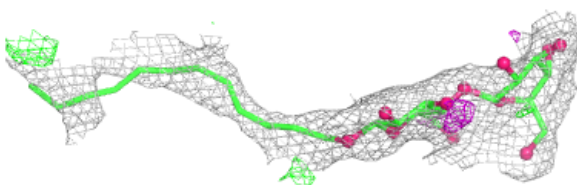
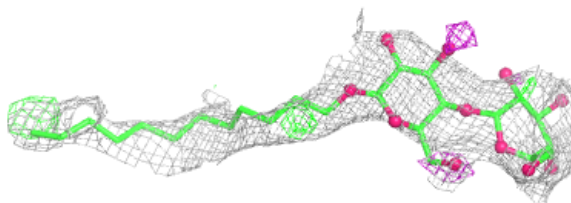


Electron density around LMT E 2003:

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

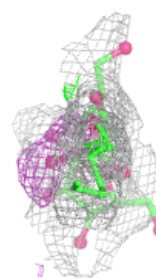
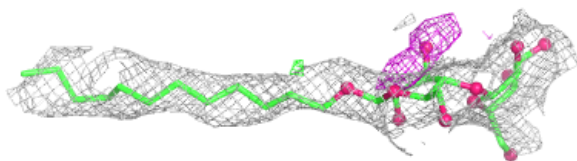
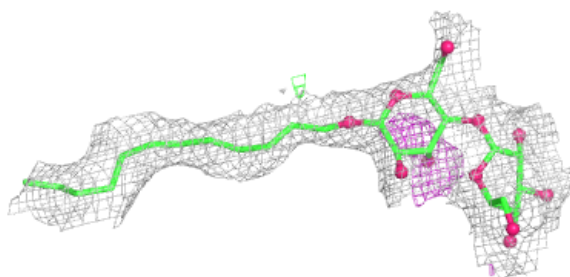
**Electron density around LMT D 2003:**

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

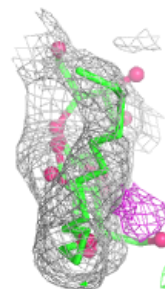
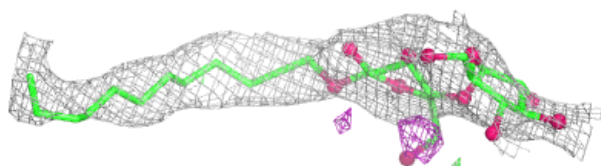
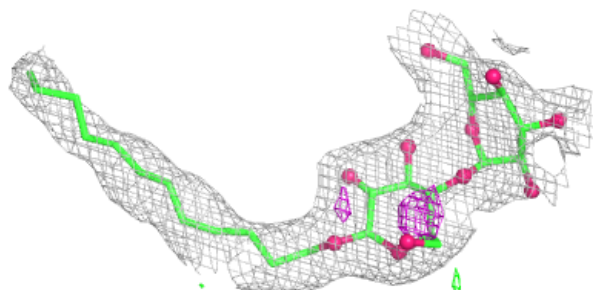


Electron density around LMT F 2002:

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

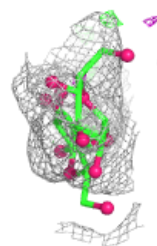
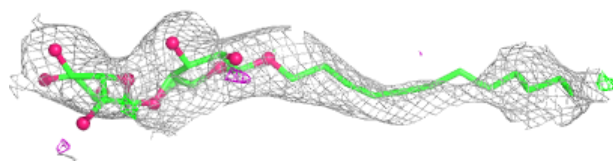
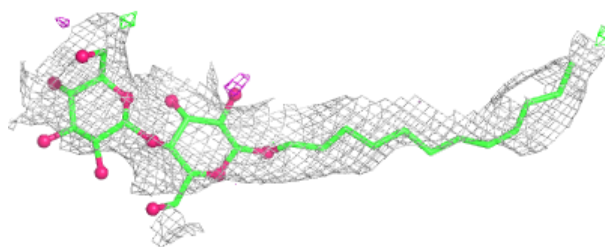
**Electron density around LMT A 1101:**

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

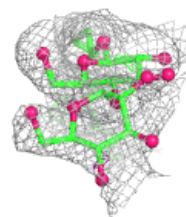
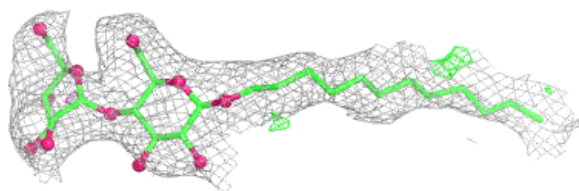
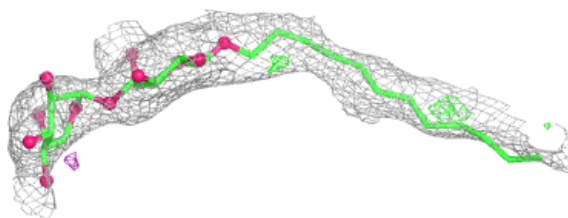


Electron density around LMT C 2002:

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

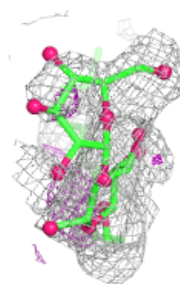
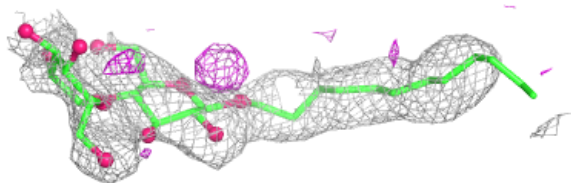
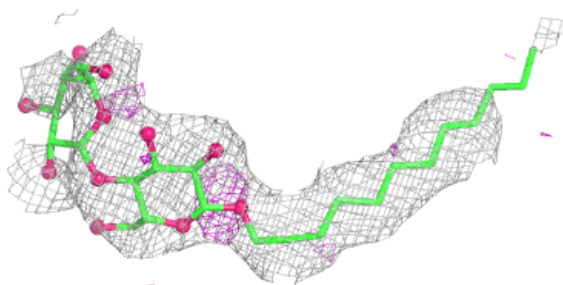
**Electron density around LMT A 1102:**

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

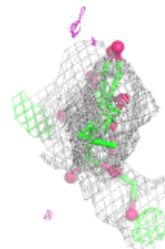
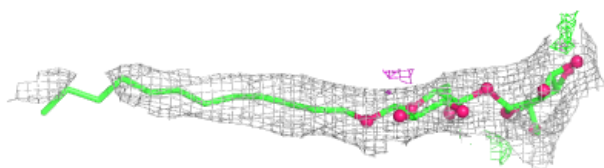
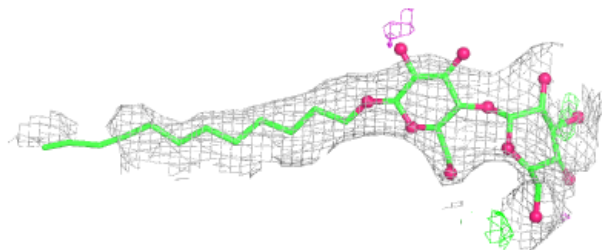


Electron density around LMT D 2002:

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

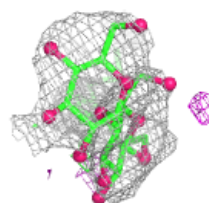
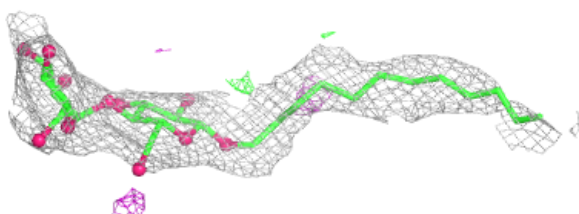
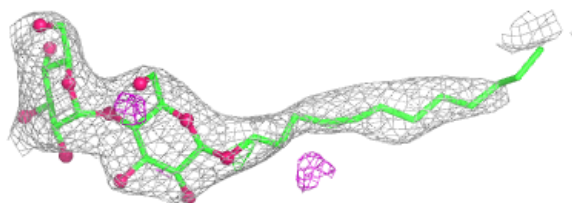
**Electron density around LMT B 2003:**

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

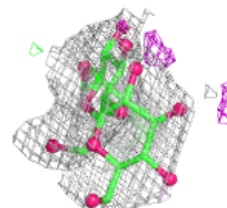
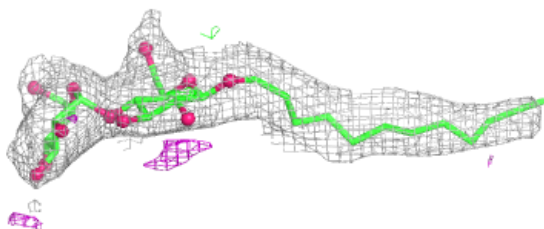
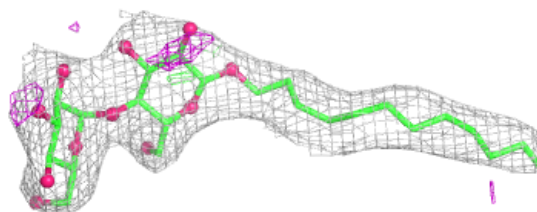


Electron density around LMT E 2001:

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

**Electron density around LMT B 2004:**

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



6.5 Other polymers ⓘ

There are no such residues in this entry.