



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 04:26 PM UTC

PDB ID : 2DRD / pdb_00002drd
Title : Crystal structure of a multidrug transporter reveal a functionally rotating mechanism
Authors : Murakami, S.; Nakashima, R.; Yamashita, E.; Matsumoto, T.
Deposited on : 2006-06-08
Resolution : 3.10 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)
Xtrriage (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

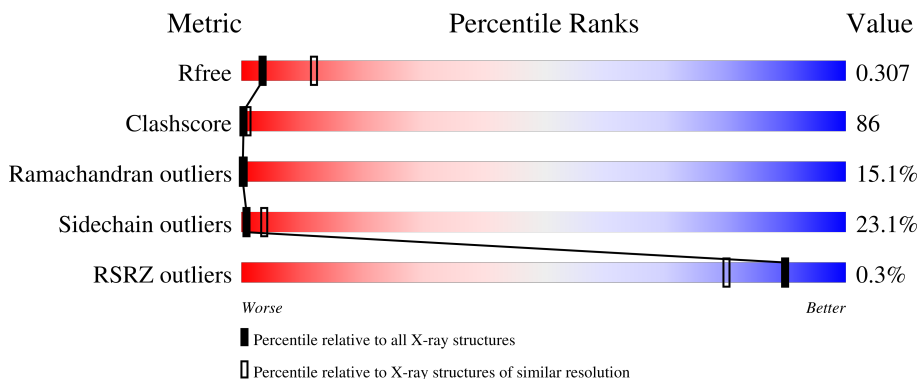
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 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	1456 (3.10-3.10)
Clashscore	190562	1539 (3.10-3.10)
Ramachandran outliers	187476	1467 (3.10-3.10)
Sidechain outliers	187428	1467 (3.10-3.10)
RSRZ outliers	180081	1456 (3.10-3.10)

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	1053	
1	B	1053	
1	C	1053	

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 23355 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.

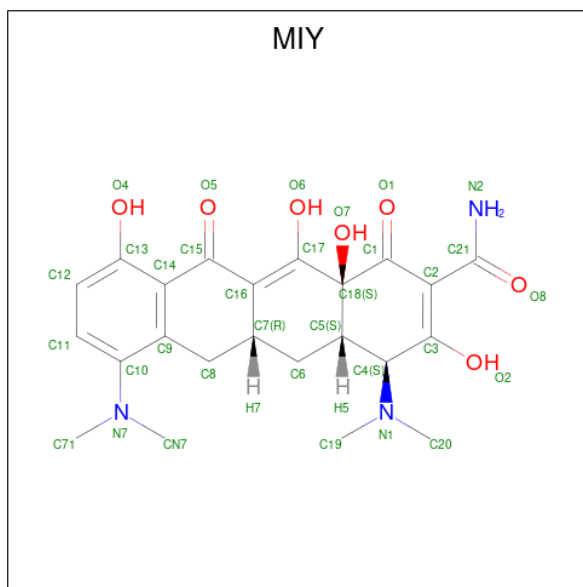
- Molecule 1 is a protein called ACRB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	1022	7774	5003	1283	1444	44	0	0	0
1	B	1022	7774	5003	1283	1444	44	0	0	0
1	C	1022	7774	5003	1283	1444	44	0	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1050	HIS	-	expression tag	UNP P31224
A	1051	HIS	-	expression tag	UNP P31224
A	1052	HIS	-	expression tag	UNP P31224
A	1053	HIS	-	expression tag	UNP P31224
B	1050	HIS	-	expression tag	UNP P31224
B	1051	HIS	-	expression tag	UNP P31224
B	1052	HIS	-	expression tag	UNP P31224
B	1053	HIS	-	expression tag	UNP P31224
C	1050	HIS	-	expression tag	UNP P31224
C	1051	HIS	-	expression tag	UNP P31224
C	1052	HIS	-	expression tag	UNP P31224
C	1053	HIS	-	expression tag	UNP P31224

- Molecule 2 is (4S,4AS,5AR,12AS)-4,7-BIS(DIMETHYLAMINO)-3,10,12,12A-TETRAHYDROXY-1,11-DIOXO-1,4,4A,5,5A,6,11,12A-OCTAHYDROTETRACENE-2-CARBOXAMIDE (CCD ID: MIY) (formula: C₂₃H₂₇N₃O₇).

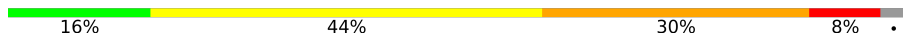


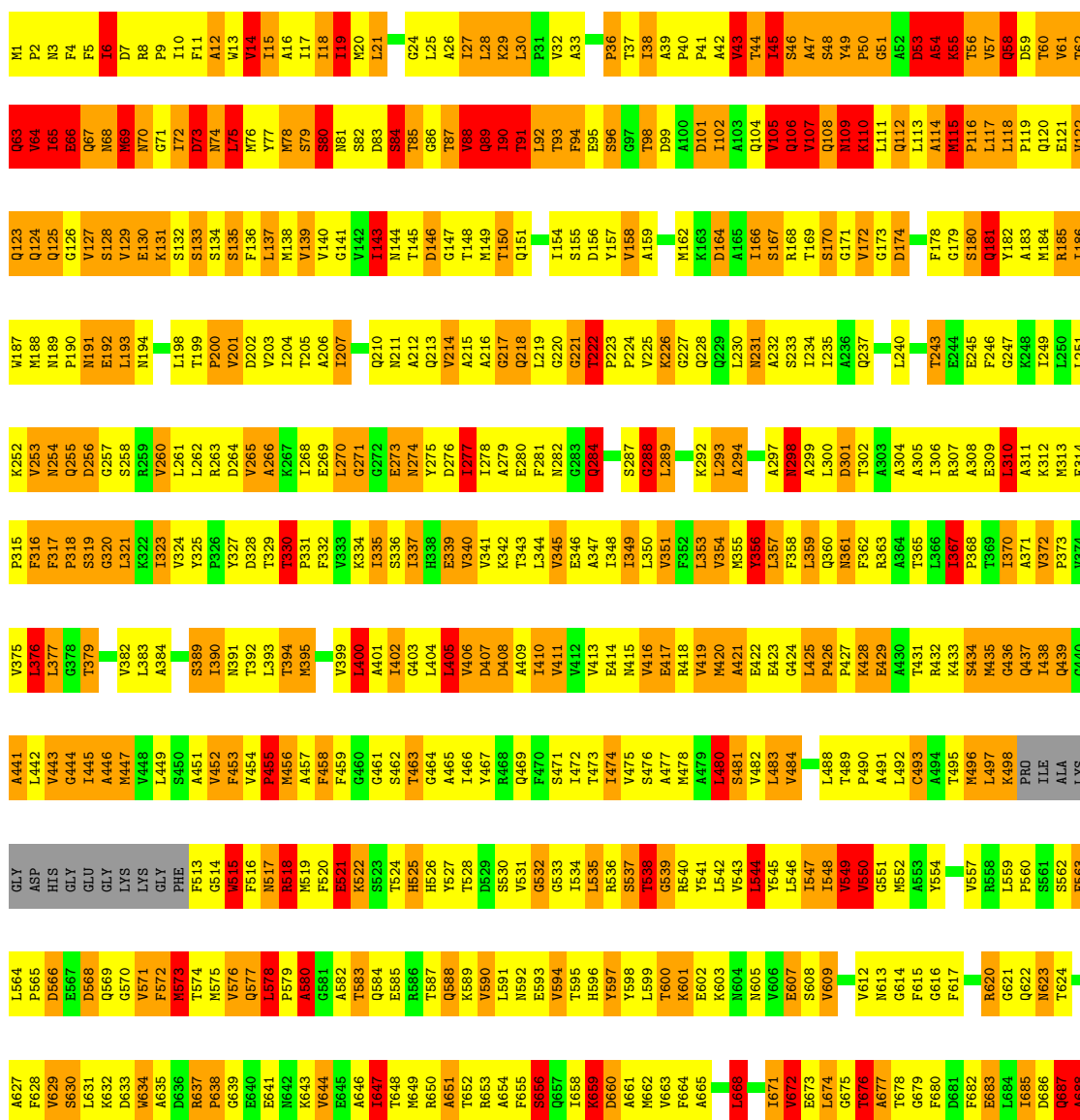
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
2	A	1	33	23	3	7	0	0

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: ACRB

Chain A: 



HIS	P988	Y926	Y864	F804	A738	T678	F615	V550	P490	E429	I367
HIS	L989	F927	Q865	F804	V741	G679	G619	G551	A491	A450	P368
HIS	Y990	Q928	E866	S805	V741	F680	R619	M552	L492	T431	T989
HIS	Y991	V929	R867	S806	S742	F681	R620	M553	C493	R432	I370
HIS	S992	G930	L868	S807	I743	F682	G621	Y554	A494	R433	A371
HIS	T993	L931	S869	R808	N744	F683	Q622	L555	T495	S434	V372
	G994	L932	G870	W909	D745	L684	R623	G556	M496	M435	P373
	A995	T933	M871	G812	I746	I686	T624	R558	L497	C436	V374
	G996	T934	Q872	G813	I747	D686	G625	L559	K498	Q437	V375
	S997	I935	A873	S814	T748	Q687	L626	P560	T438	T438	L376
	G998	G936	P874	P814	T749	A688	A627	S561	PRO	L377	L377
	A999	L937	R815	R815	L750	G689	F628	S562	ILE	Q439	Q378
	Q1000	S938	L876	G751	G751	L690	W629	F563	ALA	C440	G378
	N1001	A939	E817	E817	A752	G691	S630	L584	LYS	A441	T379
	A1002	K940	R818	R818	A753	H692	L631	P565	ASP	L442	F380
	V1003	N941	I879	Y819	W754	G693	R632	D566	HIS	V443	A381
	G1004	A942	S880	N820	G755	K694	D633	D567	GLY	G444	V382
	T1005	I943	G821	G821	G756	L695	W634	D568	GLU	I445	L383
	G1006	L944	L822	L822	S757	T696	A635	O569	GLY	M447	A384
	V1007	I945	P823	P823	Y758	Q697	D636	S570	LYS	V448	A385
	M1008	V946	S824	S824	V759	A698	R637	S571	LYS	L449	S389
	G1009	E947	L886	M825	I760	R699	F638	F572	GLY	S450	I390
	G1010	F948	C887	E826	D761	N700	G639	M573	PHE	A451	N391
	M1011	A949	L888	I827	F762	Q701	E640	T574	F513	V452	T392
	V1012	K950	A889	L828	I763	L702	E641	M575	G514	F453	L393
	T1013	D951	A890	G829	D764	L703	R642	M576	M515	V454	T394
	A1014	L952	L891	Q830	R765	A704	K643	Q577	F516	P455	M395
	T1015	M953	Y892	A831	G766	E705	W644	L578	M517	M456	F396
	V1016	D954	E893	A832	R767	A706	E645	P579	R518	A457	G397
	L1017	G958	S894	P833	V768	A707	A646	M519	F458	M398	M398
	A1018	K959	W895	G834	K769	K708	T647	A582	F520	F459	V399
	I1019	G959	S896	K835	K770	H709	T648	T583	E591	C460	L400
	F1020	L960	R897	S836	V771	P710	M649	Q584	A522	G461	A401
	V1021	I961	P898	T837	I772	D711	R650	E586	S523	S462	I402
	P1022	E962	F899	G838	V773	M712	G653	R588	T524	T463	G403
	V1023	A963	S900	E839	M774	L713	R654	T587	H525	O464	L404
	V1024	T964	A901	A840	S775	T714	A654	O588	H526	A465	L405
	F1025	L865	M841	M841	E776	S715	F655	K589	Y527	I466	V406
	F1026	D966	E842	E842	A777	V716	S656	V590	T528	Y467	D407
	V1027	A967	L843	L843	K778	R717	Q657	L591	D529	R468	D408
	V1028	V968	P906	M844	Y779	P718	L658	M592	S530	Q469	A409
	V1029	R969	L907	E845	R780	N719	K659	E593	V531	F470	I410
	R1030	M970	G908	Q846	M781	G720	D660	V594	G532	S471	V411
	R1031	R971	V909	L847	L782	L721	A661	T595	G533	G533	V412
	R1032	L972	L910	A848	P783	E722	M662	H596	I534	I474	V413
	F1033	R973	G911	S849	D784	D723	V663	Y597	L535	V475	E414
	S1034	P974	A912	K850	D785	T724	F664	Y598	R536	S476	N415
	R1035	I975	L913	L851	I786	P725	A665	L599	S537	A477	V416
	K1036	L976	L914	P852	G787	Q726	F666	T600	T538	M478	E417
	ASN	M977	A915	T853	D788	F727	R667	K601	G539	A479	R418
	GLU	T978	A916	G854	W789	K728	L668	E602	R540	L480	V419
	ASP	S979	T917	G855	Y790	I729	P669	K603	Y541	S481	M420
	ILE	L980	F918	G856	V791	D730	A670	L542	L542	V482	A421
	GLU	A981	R919	Y857	R792	I731	A671	V606	V543	V483	E422
	HIS	F982	G920	D858	A793	D732	V672	L544	L544	V484	E423
	SER	I983	L921	W859	Q733	Q733	E673	S608	Y545	A485	G424
	HIS	L884	T922	T860	E734	E734	L674	L546	L546	L486	L425
	THR	G985	N923	G861	V799	K735	G675	M612	I547	I487	P427
	VAL	V986	D924	M662	P600	A736	T676	M613	L548	L488	P427
	ASP	M987	V925	S863	F801	Q737	A677	C614	V549	T489	K428

4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	225.80Å 134.47Å 162.12Å 90.00° 98.17° 90.00°	Depositor
Resolution (Å)	10.00 – 3.10 10.00 – 3.10	Depositor EDS
% Data completeness (in resolution range)	97.5 (10.00-3.10) 94.4 (10.00-3.10)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.33 (at 3.10Å)	Xtrriage
Refinement program	REFMAC 5.2.0005	Depositor
R, R_{free}	0.255 , 0.310 0.248 , 0.307	Depositor DCC
R_{free} test set	4181 reflections (4.95%)	wwPDB-VP
Wilson B-factor (Å ²)	78.1	Xtrriage
Anisotropy	0.293	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 73.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	23355	wwPDB-VP
Average B, all atoms (Å ²)	83.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.89% 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: MIY

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	1.97	209/7920 (2.6%)	1.78	190/10756 (1.8%)
1	B	1.64	104/7920 (1.3%)	1.66	138/10756 (1.3%)
1	C	1.98	195/7920 (2.5%)	1.87	240/10756 (2.2%)
All	All	1.87	508/23760 (2.1%)	1.77	568/32268 (1.8%)

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	2
1	B	0	1
1	C	0	4
All	All	0	7

All (508) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	45	ILE	CA-CB	-21.34	1.25	1.54
1	C	174	ASP	CA-C	19.29	1.74	1.52
1	C	167	SER	N-CA	17.39	1.68	1.46
1	A	65	ILE	C-O	16.39	1.43	1.24
1	A	90	ILE	CA-CB	-15.83	1.32	1.54
1	C	45	ILE	CA-CB	15.20	1.75	1.54
1	C	166	ILE	CA-CB	14.91	1.74	1.54
1	C	897	ILE	CA-CB	14.27	1.61	1.54
1	A	63	GLN	N-CA	-13.79	1.28	1.46
1	C	235	ILE	CA-CB	13.72	1.71	1.53
1	C	291	ILE	CA-CB	-13.65	1.35	1.54
1	A	725	PRO	C-O	13.19	1.39	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	79	SER	C-O	13.09	1.40	1.23
1	C	91	THR	CA-CB	12.75	1.72	1.53
1	C	159	ALA	CA-CB	-12.71	1.31	1.53
1	A	61	VAL	CA-C	12.16	1.68	1.52
1	B	105	VAL	CA-CB	11.70	1.70	1.54
1	C	96	SER	CA-C	-11.61	1.39	1.52
1	A	44	THR	C-O	11.43	1.39	1.23
1	C	157	TYR	C-O	11.29	1.38	1.24
1	A	820	ASN	C-O	11.23	1.38	1.24
1	A	67	GLN	CA-CB	11.14	1.72	1.53
1	A	105	VAL	C-O	11.03	1.37	1.24
1	A	66	GLU	CA-C	11.02	1.67	1.52
1	C	671	ILE	CA-CB	10.96	1.69	1.54
1	C	161	ASN	N-CA	10.85	1.60	1.46
1	C	57	VAL	CA-CB	10.78	1.68	1.54
1	B	64	VAL	CA-CB	-10.73	1.42	1.54
1	A	85	THR	N-CA	-10.66	1.34	1.46
1	A	64	VAL	CA-CB	10.54	1.68	1.54
1	C	167	SER	C-O	10.53	1.37	1.24
1	A	108	GLN	CA-C	-10.46	1.39	1.52
1	C	165	ALA	CA-CB	-10.34	1.34	1.53
1	A	818	ARG	CG-CD	10.12	1.82	1.52
1	C	44	THR	CA-C	10.12	1.65	1.53
1	C	289	LEU	N-CA	-10.12	1.33	1.46
1	A	768	VAL	CA-CB	-10.00	1.43	1.54
1	A	823	PRO	C-O	9.94	1.37	1.23
1	A	822	LEU	C-O	9.81	1.37	1.24
1	C	169	THR	CA-CB	9.80	1.72	1.53
1	B	46	SER	CA-C	-9.74	1.43	1.53
1	C	163	LYS	C-O	9.69	1.36	1.24
1	A	65	ILE	CA-C	9.66	1.65	1.52
1	C	199	THR	CA-CB	9.62	1.66	1.54
1	A	102	ILE	CA-CB	-9.56	1.42	1.54
1	A	43	VAL	CA-CB	-9.53	1.41	1.54
1	A	70	ASN	N-CA	-9.53	1.34	1.46
1	C	991	ILE	CA-CB	9.51	1.65	1.53
1	C	103	ALA	CA-CB	-9.44	1.38	1.53
1	A	46	SER	CA-CB	-9.43	1.38	1.53
1	C	165	ALA	C-O	9.38	1.36	1.24
1	A	917	THR	CA-CB	9.30	1.69	1.53
1	C	160	ALA	CA-CB	-9.28	1.37	1.53
1	A	688	ALA	CA-CB	9.27	1.69	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	62	THR	CA-C	9.26	1.64	1.52
1	C	767	ARG	CZ-NH2	-9.21	1.21	1.33
1	A	72	ILE	CA-CB	9.21	1.64	1.54
1	A	910	ILE	CA-CB	9.18	1.63	1.54
1	A	93	THR	N-CA	9.14	1.57	1.45
1	C	175	VAL	N-CA	-9.09	1.35	1.46
1	A	688	ALA	N-CA	9.05	1.57	1.46
1	C	767	ARG	C-O	9.02	1.34	1.24
1	A	818	ARG	C-O	9.00	1.35	1.24
1	A	84	SER	CA-C	8.99	1.64	1.52
1	A	105	VAL	CA-CB	-8.99	1.42	1.54
1	B	410	ILE	CA-CB	8.96	1.67	1.54
1	C	291	ILE	CG1-CD1	8.96	1.86	1.51
1	A	819	TYR	C-O	8.94	1.34	1.23
1	C	54	ALA	CA-CB	-8.93	1.38	1.53
1	C	38	ILE	CA-CB	8.86	1.66	1.54
1	C	96	SER	C-O	-8.85	1.14	1.24
1	A	691	GLY	C-O	8.84	1.33	1.23
1	C	137	LEU	CA-C	8.84	1.64	1.52
1	A	727	PHE	CA-C	-8.69	1.42	1.52
1	A	79	SER	CA-C	8.68	1.65	1.53
1	A	133	SER	CA-C	8.63	1.62	1.52
1	C	139	VAL	CA-CB	-8.62	1.42	1.55
1	A	289	LEU	CA-C	8.54	1.62	1.52
1	C	183	ALA	CA-C	-8.54	1.41	1.52
1	C	426	PRO	CA-C	8.51	1.60	1.52
1	A	819	TYR	CG-CD1	8.50	1.57	1.39
1	A	822	LEU	CA-C	-8.45	1.43	1.52
1	A	266	ALA	C-O	-8.41	1.18	1.24
1	A	68	ASN	C-O	8.40	1.34	1.24
1	A	725	PRO	CA-C	8.36	1.62	1.52
1	A	73	ASP	CB-CG	8.33	1.72	1.52
1	C	90	ILE	C-O	8.28	1.33	1.24
1	C	102	ILE	CA-CB	-8.27	1.45	1.54
1	C	211	ASN	CA-C	-8.27	1.42	1.53
1	A	70	ASN	CG-ND2	8.25	1.50	1.33
1	C	688	ALA	CA-CB	-8.17	1.41	1.53
1	C	42	ALA	CA-CB	-8.16	1.38	1.53
1	C	140	VAL	C-N	8.14	1.39	1.33
1	C	131	LYS	C-O	8.11	1.33	1.23
1	B	763	ILE	CA-CB	8.11	1.62	1.53
1	C	140	VAL	CA-CB	-8.10	1.43	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	53	ASP	CA-C	-8.06	1.42	1.52
1	C	101	ASP	CA-C	-8.03	1.42	1.52
1	A	45	ILE	C-N	8.01	1.44	1.33
1	A	64	VAL	N-CA	7.93	1.56	1.46
1	B	897	ILE	CA-CB	7.89	1.59	1.53
1	B	652	THR	CA-CB	7.88	1.66	1.53
1	C	162	MET	N-CA	-7.88	1.35	1.46
1	C	164	ASP	CG-OD2	7.85	1.40	1.25
1	A	749	THR	CA-CB	-7.84	1.41	1.53
1	C	99	ASP	CA-CB	-7.76	1.43	1.53
1	C	123	GLN	C-O	-7.70	1.14	1.24
1	B	90	ILE	CA-CB	-7.69	1.45	1.54
1	A	123	GLN	C-O	-7.62	1.14	1.24
1	A	814	PRO	CA-C	-7.61	1.45	1.52
1	C	108	GLN	CA-C	-7.60	1.42	1.52
1	A	75	LEU	CA-C	7.60	1.62	1.52
1	C	181	GLN	CD-OE1	7.59	1.38	1.23
1	C	162	MET	CA-C	-7.58	1.41	1.52
1	A	58	GLN	CD-OE1	7.57	1.38	1.23
1	C	658	ILE	CA-CB	7.57	1.64	1.54
1	A	91	THR	CA-C	7.56	1.62	1.52
1	C	274	ASN	CA-C	7.56	1.61	1.52
1	B	114	ALA	CA-CB	-7.53	1.42	1.53
1	A	698	ALA	CA-CB	-7.52	1.41	1.53
1	B	767	ARG	CA-C	-7.52	1.43	1.52
1	C	127	VAL	CA-CB	7.51	1.66	1.55
1	A	57	VAL	CA-CB	-7.48	1.43	1.54
1	B	672	VAL	CA-CB	7.47	1.64	1.54
1	A	112	GLN	N-CA	-7.47	1.36	1.46
1	B	241	THR	CA-C	-7.46	1.42	1.52
1	C	390	ILE	CA-CB	-7.46	1.45	1.54
1	A	816	LEU	C-O	7.45	1.32	1.24
1	A	48	SER	N-CA	7.40	1.55	1.45
1	A	698	ALA	N-CA	-7.38	1.37	1.46
1	A	76	MET	CA-C	-7.38	1.42	1.52
1	B	27	ILE	N-CA	-7.36	1.37	1.46
1	A	724	THR	CA-CB	-7.30	1.41	1.53
1	C	294	ALA	CA-CB	-7.29	1.41	1.53
1	C	98	THR	C-O	7.28	1.32	1.23
1	B	910	ILE	CA-CB	7.26	1.62	1.55
1	A	90	ILE	CG1-CD1	7.25	1.80	1.51
1	B	1002	ALA	CA-CB	-7.25	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	93	THR	CA-CB	7.21	1.61	1.52
1	C	757	SER	CA-C	-7.20	1.43	1.52
1	C	262	LEU	CA-C	-7.16	1.43	1.52
1	C	1027	VAL	CA-CB	7.15	1.62	1.54
1	C	314	GLU	N-CA	7.14	1.56	1.46
1	C	438	ILE	CA-CB	7.14	1.64	1.54
1	C	1016	VAL	CA-CB	7.14	1.62	1.54
1	C	548	ILE	CA-CB	7.13	1.64	1.54
1	B	291	ILE	C-O	-7.12	1.15	1.24
1	A	88	VAL	CA-CB	-7.12	1.44	1.54
1	A	644	VAL	CA-CB	-7.10	1.46	1.54
1	C	169	THR	C-O	7.04	1.31	1.24
1	C	945	ILE	CA-CB	7.02	1.64	1.54
1	A	63	GLN	C-O	7.01	1.32	1.24
1	A	65	ILE	CA-CB	-7.01	1.45	1.54
1	C	83	ASP	CA-CB	7.00	1.64	1.53
1	B	975	ILE	CA-CB	-7.00	1.45	1.54
1	A	68	ASN	CA-CB	6.99	1.65	1.53
1	A	214	VAL	CA-CB	-6.96	1.45	1.54
1	C	897	ILE	CA-C	6.93	1.60	1.52
1	B	771	VAL	CA-CB	-6.93	1.45	1.54
1	C	833	PRO	CA-C	6.92	1.62	1.52
1	C	273	GLU	C-O	-6.92	1.16	1.24
1	A	105	VAL	N-CA	-6.91	1.37	1.46
1	A	67	GLN	CA-C	-6.90	1.43	1.52
1	C	175	VAL	CA-CB	-6.88	1.46	1.53
1	A	77	TYR	C-O	6.87	1.32	1.23
1	B	1012	VAL	CA-CB	6.87	1.63	1.54
1	A	106	GLN	CD-OE1	6.86	1.36	1.23
1	A	367	ILE	CA-C	6.86	1.60	1.52
1	A	590	VAL	CA-CB	-6.82	1.46	1.54
1	A	563	PHE	CA-C	-6.78	1.48	1.52
1	B	711	ASP	C-O	6.77	1.32	1.24
1	C	714	THR	CA-CB	6.77	1.65	1.53
1	A	118	LEU	CB-CG	6.73	1.67	1.53
1	A	723	ASP	CA-C	-6.73	1.44	1.52
1	B	267	LYS	CA-C	6.72	1.61	1.53
1	A	81	ASN	N-CA	6.71	1.54	1.46
1	A	721	LEU	CG-CD2	-6.70	1.30	1.52
1	A	91	THR	CA-CB	-6.69	1.42	1.53
1	C	334	LYS	CA-C	6.69	1.62	1.52
1	A	811	TYR	CA-CB	-6.68	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	770	LYS	CA-C	6.67	1.61	1.52
1	B	600	THR	CA-CB	6.67	1.65	1.54
1	A	67	GLN	CB-CG	6.66	1.72	1.52
1	C	762	PHE	C-O	-6.65	1.16	1.23
1	B	426	PRO	CA-C	6.64	1.58	1.52
1	C	232	ALA	CA-CB	-6.64	1.41	1.54
1	A	990	VAL	CA-CB	6.64	1.63	1.54
1	A	49	TYR	C-O	6.64	1.32	1.24
1	B	209	ALA	CA-CB	-6.62	1.44	1.54
1	C	168	ARG	N-CA	-6.62	1.38	1.46
1	C	770	LYS	CD-CE	6.61	1.72	1.52
1	C	183	ALA	C-O	-6.58	1.15	1.24
1	B	459	PHE	CB-CG	6.58	1.65	1.50
1	A	71	GLY	C-O	-6.58	1.15	1.23
1	B	44	THR	N-CA	-6.56	1.38	1.46
1	C	127	VAL	CA-C	6.53	1.60	1.52
1	A	94	PHE	N-CA	6.52	1.54	1.45
1	C	42	ALA	C-O	6.49	1.31	1.23
1	C	88	VAL	CA-C	-6.49	1.45	1.52
1	A	201	VAL	CA-C	-6.48	1.45	1.52
1	B	58	GLN	CA-C	-6.46	1.44	1.53
1	B	242	SER	CA-C	-6.46	1.45	1.53
1	C	45	ILE	CG1-CD1	-6.45	1.26	1.51
1	A	212	ALA	CA-CB	-6.45	1.45	1.54
1	C	769	LYS	CA-C	6.44	1.60	1.52
1	A	801	PHE	CB-CG	6.43	1.65	1.50
1	B	236	ALA	CA-CB	-6.41	1.42	1.53
1	B	277	ILE	CA-CB	6.41	1.61	1.53
1	B	760	ASN	N-CA	-6.40	1.38	1.46
1	B	52	ALA	CA-C	6.40	1.61	1.53
1	C	237	GLN	CA-C	-6.40	1.45	1.52
1	C	72	ILE	C-O	6.39	1.30	1.24
1	C	160	ALA	CA-C	-6.39	1.44	1.52
1	B	771	VAL	CA-C	-6.38	1.44	1.52
1	A	55	LYS	C-O	6.38	1.31	1.24
1	C	218	GLN	CA-C	6.36	1.60	1.52
1	B	93	THR	CA-CB	6.36	1.64	1.53
1	C	116	PRO	C-O	-6.35	1.15	1.24
1	C	159	ALA	N-CA	6.34	1.54	1.46
1	C	534	ILE	CA-C	6.33	1.60	1.52
1	B	993	THR	CA-C	6.31	1.61	1.53
1	B	158	VAL	CA-CB	6.31	1.64	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	158	VAL	CB-CG1	6.30	1.73	1.52
1	A	108	GLN	CA-CB	-6.30	1.43	1.53
1	A	521	GLU	CA-C	6.29	1.61	1.52
1	C	425	LEU	CA-C	6.28	1.60	1.52
1	A	803	ALA	C-O	-6.27	1.16	1.24
1	A	67	GLN	C-O	6.27	1.31	1.24
1	A	37	THR	CA-C	-6.27	1.45	1.52
1	C	40	PRO	CA-C	-6.26	1.48	1.52
1	A	73	ASP	CG-OD1	6.26	1.37	1.25
1	B	402	ILE	CA-CB	6.26	1.62	1.54
1	C	266	ALA	CA-CB	-6.24	1.39	1.53
1	B	110	LYS	N-CA	6.23	1.54	1.46
1	C	759	VAL	CA-CB	-6.22	1.47	1.54
1	A	816	LEU	CA-C	-6.20	1.45	1.52
1	A	114	ALA	CA-CB	-6.19	1.43	1.53
1	B	471	SER	CA-C	-6.19	1.44	1.52
1	C	824	SER	N-CA	6.19	1.54	1.45
1	A	101	ASP	N-CA	-6.18	1.39	1.46
1	A	1022	VAL	CA-CB	6.17	1.58	1.53
1	C	124	GLN	C-O	6.17	1.31	1.24
1	B	44	THR	CA-CB	6.16	1.65	1.53
1	C	833	PRO	N-CA	6.16	1.55	1.47
1	C	42	ALA	N-CA	-6.16	1.39	1.46
1	A	812	GLY	N-CA	-6.13	1.38	1.45
1	B	704	ALA	CA-C	6.09	1.60	1.52
1	C	222	THR	CA-C	-6.09	1.45	1.52
1	A	699	ARG	N-CA	6.09	1.53	1.46
1	C	453	PHE	N-CA	-6.08	1.40	1.46
1	C	154	ILE	C-O	6.08	1.30	1.23
1	B	669	PRO	CA-C	6.08	1.61	1.52
1	A	688	ALA	C-O	6.08	1.31	1.24
1	A	426	PRO	CA-C	6.07	1.57	1.52
1	A	810	GLU	C-O	6.07	1.31	1.23
1	A	819	TYR	CA-CB	-6.07	1.44	1.53
1	C	825	MET	N-CA	6.04	1.53	1.46
1	A	735	LYS	CA-C	-6.04	1.44	1.52
1	A	68	ASN	CG-OD1	6.04	1.35	1.23
1	C	129	VAL	CA-CB	-6.04	1.46	1.54
1	C	587	THR	CA-CB	6.04	1.63	1.53
1	B	857	TYR	CA-C	6.03	1.60	1.52
1	A	128	SER	CA-C	6.02	1.60	1.52
1	C	287	SER	N-CA	-6.01	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	990	VAL	N-CA	6.01	1.53	1.46
1	C	807	SER	N-CA	6.00	1.53	1.45
1	A	819	TYR	CE2-CZ	6.00	1.52	1.38
1	C	159	ALA	C-O	5.99	1.31	1.24
1	C	203	VAL	CA-CB	-5.99	1.46	1.54
1	C	167	SER	CA-C	5.99	1.60	1.52
1	A	128	SER	C-O	5.99	1.31	1.23
1	C	127	VAL	N-CA	5.99	1.53	1.46
1	C	515	TRP	N-CA	5.98	1.53	1.46
1	C	274	ASN	CB-CG	5.97	1.67	1.52
1	C	676	THR	CA-CB	5.96	1.63	1.53
1	A	253	VAL	CA-C	5.96	1.60	1.52
1	C	78	MET	N-CA	5.96	1.53	1.45
1	B	1022	VAL	CA-CB	5.94	1.57	1.54
1	C	753	ALA	CA-C	-5.93	1.44	1.52
1	B	566	ASP	CA-C	-5.92	1.45	1.53
1	C	202	ASP	CA-C	-5.92	1.45	1.52
1	C	763	ILE	CA-CB	-5.92	1.47	1.54
1	B	350	LEU	CA-C	-5.91	1.44	1.52
1	B	406	VAL	CA-CB	5.91	1.61	1.54
1	C	290	GLY	N-CA	5.91	1.53	1.45
1	A	696	THR	CA-CB	5.90	1.63	1.53
1	B	218	GLN	N-CA	5.90	1.53	1.46
1	C	521	GLU	CA-C	5.90	1.60	1.52
1	A	676	THR	CA-CB	5.89	1.63	1.53
1	A	56	THR	C-O	5.87	1.31	1.24
1	C	905	VAL	CA-CB	5.87	1.61	1.54
1	A	64	VAL	CA-C	-5.87	1.45	1.52
1	B	112	GLN	N-CA	5.86	1.53	1.46
1	C	681	ASP	N-CA	5.86	1.53	1.46
1	B	77	TYR	C-O	5.86	1.30	1.23
1	A	550	VAL	CA-CB	-5.85	1.45	1.54
1	A	826	GLU	N-CA	-5.85	1.39	1.46
1	B	222	THR	C-N	5.85	1.40	1.33
1	A	367	ILE	CA-CB	5.84	1.61	1.54
1	B	54	ALA	CA-C	5.83	1.60	1.52
1	A	549	VAL	CA-CB	5.82	1.62	1.54
1	A	68	ASN	N-CA	5.81	1.53	1.46
1	C	549	VAL	CA-CB	5.81	1.62	1.54
1	A	92	LEU	C-N	5.80	1.41	1.33
1	A	44	THR	CA-CB	-5.79	1.43	1.53
1	B	784	ASP	CA-C	-5.79	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	62	THR	CA-CB	-5.79	1.43	1.53
1	A	538	THR	CA-CB	5.79	1.63	1.53
1	C	726	GLN	C-O	-5.79	1.16	1.23
1	C	69	MET	CA-C	-5.78	1.46	1.53
1	A	54	ALA	CA-CB	-5.78	1.43	1.53
1	B	145	THR	CA-CB	5.76	1.63	1.53
1	A	125	GLN	N-CA	5.74	1.53	1.46
1	C	758	TYR	CE2-CZ	5.74	1.52	1.38
1	C	67	GLN	CA-C	-5.73	1.45	1.52
1	C	536	ARG	CA-C	5.72	1.60	1.52
1	A	683	GLU	C-O	5.71	1.30	1.23
1	A	45	ILE	CG1-CD1	5.71	1.74	1.51
1	C	118	LEU	CA-C	5.71	1.60	1.53
1	A	61	VAL	C-O	5.69	1.30	1.24
1	B	675	GLY	N-CA	5.69	1.53	1.45
1	C	304	ALA	CA-CB	-5.68	1.44	1.53
1	A	66	GLU	N-CA	5.68	1.53	1.46
1	A	855	VAL	CB-CG2	-5.68	1.33	1.52
1	C	671	ILE	CA-C	5.67	1.59	1.52
1	C	375	VAL	CA-CB	-5.67	1.48	1.54
1	A	80	SER	N-CA	-5.67	1.39	1.46
1	B	560	PRO	CA-C	5.67	1.60	1.52
1	C	170	SER	CA-C	-5.67	1.45	1.52
1	A	45	ILE	C-O	5.67	1.30	1.24
1	A	61	VAL	CA-CB	5.65	1.62	1.54
1	A	441	ALA	CA-C	5.64	1.59	1.52
1	A	808	ARG	CG-CD	5.64	1.69	1.52
1	A	382	VAL	CA-CB	-5.64	1.47	1.54
1	A	747	ASN	CA-C	-5.64	1.45	1.52
1	B	87	THR	CA-CB	-5.64	1.44	1.53
1	B	215	ALA	CA-C	-5.64	1.45	1.52
1	B	235	ILE	N-CA	5.64	1.53	1.46
1	C	294	ALA	CA-C	-5.62	1.45	1.52
1	C	741	VAL	CA-CB	5.62	1.61	1.54
1	A	594	VAL	CA-CB	-5.62	1.46	1.54
1	C	58	GLN	CB-CG	5.62	1.69	1.52
1	A	29	LYS	CB-CG	5.61	1.69	1.52
1	C	726	GLN	CA-C	-5.61	1.45	1.52
1	C	204	ILE	N-CA	-5.60	1.40	1.46
1	A	693	GLU	CA-C	-5.59	1.46	1.52
1	B	173	GLY	C-O	5.59	1.31	1.23
1	A	583	THR	CA-C	-5.59	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	107	VAL	C-N	5.59	1.40	1.33
1	C	579	PRO	CA-C	-5.58	1.45	1.52
1	A	960	LEU	CA-C	5.58	1.60	1.52
1	B	557	VAL	CA-CB	-5.58	1.46	1.54
1	C	303	ALA	CA-CB	-5.58	1.44	1.53
1	C	822	LEU	CA-C	5.58	1.60	1.52
1	A	660	ASP	CA-C	5.58	1.60	1.52
1	A	87	THR	CA-CB	-5.57	1.44	1.53
1	B	81	ASN	N-CA	-5.56	1.39	1.46
1	C	46	SER	CA-CB	5.56	1.62	1.52
1	B	112	GLN	CG-CD	5.55	1.66	1.52
1	C	162	MET	C-O	-5.55	1.15	1.23
1	B	912	ALA	CA-C	-5.55	1.45	1.52
1	C	167	SER	CB-OG	5.55	1.53	1.42
1	C	715	SER	N-CA	5.54	1.53	1.46
1	A	521	GLU	N-CA	5.54	1.53	1.46
1	B	923	ASN	CA-C	5.54	1.59	1.53
1	C	168	ARG	CZ-NH1	5.54	1.40	1.32
1	C	172	VAL	C-O	-5.54	1.17	1.24
1	A	395	MET	C-O	-5.53	1.17	1.24
1	A	304	ALA	CA-CB	-5.51	1.44	1.53
1	A	127	VAL	N-CA	-5.50	1.39	1.46
1	A	76	MET	CB-CG	-5.50	1.35	1.52
1	A	813	SER	CA-CB	5.50	1.61	1.53
1	A	40	PRO	CA-C	5.50	1.57	1.52
1	C	770	LYS	CG-CD	5.49	1.69	1.52
1	A	55	LYS	CD-CE	5.49	1.69	1.52
1	A	44	THR	CA-C	5.49	1.60	1.53
1	A	644	VAL	CA-C	-5.49	1.46	1.52
1	B	905	VAL	CA-CB	5.48	1.56	1.54
1	A	61	VAL	N-CA	5.48	1.53	1.46
1	C	323	ILE	N-CA	-5.47	1.40	1.46
1	C	631	LEU	N-CA	5.46	1.52	1.46
1	C	308	ALA	CA-CB	-5.46	1.44	1.53
1	A	79	SER	N-CA	5.45	1.52	1.45
1	B	268	ILE	N-CA	5.45	1.53	1.46
1	A	853	THR	CA-CB	5.45	1.60	1.53
1	C	309	GLU	CA-C	-5.43	1.46	1.52
1	A	819	TYR	CE1-CZ	5.43	1.51	1.38
1	B	253	VAL	CA-C	5.43	1.59	1.52
1	C	731	ILE	N-CA	5.43	1.53	1.46
1	C	157	TYR	N-CA	5.43	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	524	THR	CA-CB	5.43	1.61	1.53
1	C	96	SER	C-N	-5.43	1.28	1.34
1	C	115	MET	CA-C	-5.42	1.46	1.52
1	B	945	ILE	CA-CB	5.42	1.61	1.54
1	C	879	ILE	CA-CB	5.42	1.61	1.54
1	A	132	SER	CA-CB	-5.42	1.46	1.52
1	B	767	ARG	C-O	-5.41	1.18	1.24
1	A	710	PRO	CA-C	-5.41	1.47	1.52
1	A	700	ASN	CA-C	-5.40	1.45	1.52
1	C	453	PHE	CA-C	-5.40	1.48	1.52
1	C	110	LYS	CD-CE	5.40	1.68	1.52
1	B	27	ILE	CA-CB	-5.40	1.47	1.54
1	B	458	PHE	CA-C	-5.39	1.44	1.52
1	C	140	VAL	C-O	5.39	1.30	1.24
1	A	801	PHE	CA-C	-5.39	1.45	1.52
1	B	488	LEU	CA-C	-5.39	1.45	1.52
1	A	107	VAL	N-CA	-5.38	1.40	1.46
1	C	289	LEU	CA-C	-5.38	1.46	1.52
1	A	67	GLN	N-CA	-5.38	1.39	1.46
1	A	493	CYS	CA-C	5.38	1.59	1.52
1	B	925	VAL	N-CA	-5.37	1.40	1.46
1	C	72	ILE	CA-CB	-5.37	1.46	1.54
1	A	129	VAL	N-CA	-5.37	1.40	1.46
1	B	102	ILE	CG1-CD1	5.37	1.72	1.51
1	C	278	ILE	C-O	-5.37	1.18	1.24
1	A	46	SER	CA-C	-5.36	1.45	1.52
1	B	462	SER	N-CA	5.36	1.53	1.46
1	C	46	SER	CA-C	5.36	1.58	1.52
1	A	41	PRO	C-O	-5.36	1.19	1.24
1	B	316	PHE	CA-C	-5.35	1.45	1.52
1	C	176	GLN	CG-CD	5.35	1.65	1.52
1	A	204	ILE	CA-CB	5.34	1.60	1.54
1	B	84	SER	N-CA	5.34	1.52	1.46
1	A	685	ILE	CG1-CD1	5.33	1.72	1.51
1	C	768	VAL	C-O	5.33	1.29	1.24
1	B	221	GLY	C-O	5.33	1.31	1.23
1	A	685	ILE	CA-CB	-5.33	1.47	1.54
1	A	47	ALA	C-N	5.33	1.41	1.33
1	A	200	PRO	CA-C	5.32	1.59	1.52
1	B	288	GLY	N-CA	5.32	1.51	1.45
1	C	657	GLN	CA-C	-5.32	1.50	1.53
1	B	237	GLN	C-O	-5.30	1.15	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	628	PHE	CA-C	5.30	1.59	1.52
1	A	515	TRP	N-CA	5.28	1.53	1.46
1	B	258	SER	CA-C	5.28	1.59	1.52
1	A	107	VAL	CB-CG1	5.27	1.70	1.52
1	A	89	GLN	CA-C	5.27	1.59	1.52
1	C	118	LEU	CG-CD1	-5.27	1.35	1.52
1	A	109	ASN	C-O	-5.26	1.17	1.24
1	A	775	SER	N-CA	5.26	1.52	1.46
1	A	27	ILE	CA-CB	-5.26	1.48	1.54
1	A	620	ARG	CA-C	-5.23	1.45	1.52
1	A	580	ALA	CA-C	-5.22	1.45	1.52
1	B	183	ALA	CA-CB	-5.22	1.44	1.53
1	C	18	ILE	CA-CB	-5.22	1.47	1.54
1	B	166	ILE	CA-CB	-5.21	1.48	1.54
1	A	819	TYR	CZ-OH	5.21	1.49	1.38
1	C	64	VAL	N-CA	-5.21	1.40	1.46
1	B	67	GLN	CA-C	-5.21	1.46	1.52
1	B	430	ALA	CA-CB	-5.20	1.45	1.53
1	A	818	ARG	C-N	5.20	1.40	1.33
1	B	308	ALA	CA-C	-5.20	1.46	1.52
1	B	284	GLN	CA-C	5.20	1.59	1.52
1	C	300	LEU	CA-C	-5.20	1.46	1.52
1	C	789	TRP	CA-C	5.19	1.59	1.52
1	B	303	ALA	CA-CB	-5.19	1.45	1.53
1	B	46	SER	CA-CB	-5.19	1.44	1.52
1	C	993	THR	CA-CB	5.19	1.62	1.53
1	B	213	GLN	N-CA	5.18	1.52	1.45
1	C	103	ALA	C-O	5.18	1.30	1.24
1	C	823	PRO	C-O	-5.18	1.16	1.23
1	B	471	SER	C-O	-5.18	1.17	1.24
1	A	69	MET	CG-SD	5.18	1.93	1.80
1	C	92	LEU	N-CA	5.17	1.52	1.46
1	C	102	ILE	N-CA	-5.17	1.40	1.46
1	C	749	THR	C-O	5.17	1.30	1.24
1	C	792	ARG	CA-C	-5.17	1.46	1.52
1	B	201	VAL	CA-CB	-5.16	1.48	1.54
1	A	108	GLN	CB-CG	5.16	1.68	1.52
1	C	793	ALA	CA-CB	-5.15	1.45	1.53
1	C	286	ALA	CA-CB	-5.15	1.48	1.54
1	C	56	THR	CB-CG2	-5.14	1.35	1.52
1	A	131	LYS	N-CA	-5.14	1.39	1.46
1	A	752	ALA	CA-CB	-5.14	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	112	GLN	CG-CD	5.14	1.64	1.52
1	B	365	THR	CA-CB	5.13	1.61	1.54
1	C	190	PRO	N-CA	-5.13	1.40	1.47
1	B	381	ALA	CA-CB	-5.13	1.44	1.53
1	A	367	ILE	C-N	5.13	1.39	1.34
1	A	798	MET	C-O	-5.12	1.17	1.23
1	A	222	THR	CB-CG2	5.12	1.69	1.52
1	A	841	MET	CA-C	-5.11	1.46	1.52
1	A	853	THR	CA-C	-5.11	1.46	1.52
1	B	292	LYS	N-CA	5.10	1.51	1.45
1	B	238	THR	CA-C	5.09	1.58	1.52
1	C	88	VAL	CA-CB	5.09	1.63	1.54
1	C	215	ALA	CA-CB	-5.09	1.44	1.53
1	B	868	LEU	N-CA	5.08	1.52	1.46
1	A	101	ASP	CA-C	-5.07	1.46	1.52
1	A	127	VAL	CB-CG1	5.07	1.69	1.52
1	A	130	GLU	CA-C	5.07	1.59	1.52
1	A	69	MET	CB-CG	5.06	1.67	1.52
1	A	806	SER	C-O	-5.05	1.17	1.23
1	B	124	GLN	CB-CG	5.05	1.67	1.52
1	B	611	ALA	CA-CB	-5.05	1.45	1.53
1	A	822	LEU	C-N	-5.05	1.27	1.33
1	B	116	PRO	CA-C	5.05	1.59	1.52
1	C	762	PHE	CE2-CZ	-5.04	1.23	1.38
1	C	74	ASN	N-CA	-5.04	1.40	1.46
1	B	515	TRP	N-CA	5.03	1.52	1.46
1	A	483	LEU	CA-C	5.03	1.59	1.52
1	A	813	SER	C-N	-5.01	1.29	1.33
1	A	474	ILE	CA-CB	-5.01	1.47	1.54
1	B	668	LEU	CA-C	5.01	1.58	1.52
1	A	705	GLU	C-O	-5.01	1.17	1.24
1	B	1021	PHE	N-CA	-5.01	1.39	1.46
1	A	81	ASN	C-O	5.00	1.29	1.23
1	C	78	MET	SD-CE	-5.00	1.67	1.79

All (568) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	49	TYR	CA-C-N	14.19	137.57	119.84
1	B	49	TYR	C-N-CA	14.19	137.57	119.84
1	C	309	GLU	N-CA-C	-14.16	95.92	111.07
1	A	107	VAL	N-CA-C	-13.24	97.45	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	110	LYS	N-CA-C	-11.94	99.40	114.56
1	C	126	GLY	N-CA-C	-11.87	85.04	113.18
1	B	799	VAL	CA-C-N	11.76	132.24	119.90
1	B	799	VAL	C-N-CA	11.76	132.24	119.90
1	A	317	PHE	CA-C-N	11.22	133.87	119.84
1	A	317	PHE	C-N-CA	11.22	133.87	119.84
1	B	4	PHE	N-CA-C	-11.19	92.18	109.52
1	B	25	LEU	N-CA-C	-10.94	98.58	112.90
1	C	273	GLU	N-CA-C	-10.78	99.22	110.97
1	B	458	PHE	N-CA-C	-10.58	101.08	112.93
1	C	717	ARG	CA-C-N	10.57	132.28	120.98
1	C	717	ARG	C-N-CA	10.57	132.28	120.98
1	B	875	SER	N-CA-C	-10.54	102.60	114.62
1	C	161	ASN	CA-C-N	-10.47	103.89	122.42
1	C	161	ASN	C-N-CA	-10.47	103.89	122.42
1	B	1032	ARG	N-CA-C	-10.40	100.59	113.38
1	B	534	ILE	N-CA-C	-10.19	100.41	110.30
1	C	168	ARG	N-CA-C	9.83	125.97	111.81
1	B	705	GLU	N-CA-C	-9.64	90.26	110.80
1	B	912	ALA	N-CA-C	-9.63	101.08	113.12
1	A	379	THR	N-CA-C	-9.49	100.28	112.23
1	C	175	VAL	CB-CA-C	-9.39	99.33	111.25
1	A	696	THR	N-CA-C	-9.35	98.78	111.96
1	A	816	LEU	N-CA-C	-9.34	93.68	108.90
1	C	594	VAL	N-CA-C	-9.18	101.61	110.42
1	C	692	HIS	N-CA-C	9.13	122.07	111.11
1	B	666	PHE	N-CA-C	9.13	121.34	108.74
1	B	345	VAL	N-CA-C	-9.05	100.81	110.23
1	C	40	PRO	N-CA-C	-9.04	100.90	110.58
1	C	767	ARG	CD-NE-CZ	-9.01	111.78	124.40
1	C	97	GLY	N-CA-C	-9.01	103.94	113.58
1	C	947	GLU	N-CA-C	-8.98	102.23	113.55
1	A	114	ALA	N-CA-C	-8.97	99.97	112.45
1	C	905	VAL	CA-C-N	8.96	128.29	118.97
1	C	905	VAL	C-N-CA	8.96	128.29	118.97
1	B	570	GLY	N-CA-C	-8.84	103.12	115.32
1	B	1022	VAL	N-CA-CB	8.66	116.33	110.52
1	C	107	VAL	N-CA-C	-8.65	101.98	110.72
1	A	57	VAL	N-CA-C	8.64	120.74	111.58
1	C	782	LEU	CA-C-N	8.62	129.47	119.47
1	C	782	LEU	C-N-CA	8.62	129.47	119.47
1	A	62	THR	N-CA-C	8.58	120.63	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	115	MET	CA-C-N	8.58	130.56	119.84
1	C	115	MET	C-N-CA	8.58	130.56	119.84
1	A	222	THR	N-CA-C	-8.57	96.29	109.41
1	A	128	SER	N-CA-C	8.54	123.90	110.32
1	A	735	LYS	N-CA-C	-8.53	101.20	111.69
1	A	126	GLY	CA-C-N	-8.53	112.03	123.12
1	A	126	GLY	C-N-CA	-8.53	112.03	123.12
1	C	135	SER	N-CA-C	-8.49	96.82	110.32
1	C	279	ALA	CA-C-N	-8.44	110.87	122.77
1	C	279	ALA	C-N-CA	-8.44	110.87	122.77
1	B	416	VAL	N-CA-C	-8.41	105.08	111.90
1	C	68	ASN	CB-CA-C	-8.37	100.84	111.22
1	B	673	GLU	N-CA-C	8.31	120.41	110.44
1	A	437	GLN	N-CA-C	-8.30	103.61	114.31
1	A	754	TRP	N-CA-C	8.26	120.29	111.28
1	C	752	ALA	N-CA-C	-8.25	104.09	114.56
1	B	168	ARG	N-CA-C	-8.14	101.03	113.89
1	A	107	VAL	O-C-N	8.12	130.30	121.94
1	C	160	ALA	N-CA-C	8.09	128.03	110.80
1	C	710	PRO	N-CA-C	-8.00	103.43	114.80
1	B	897	ILE	CA-C-N	-8.00	110.13	118.85
1	B	897	ILE	C-N-CA	-8.00	110.13	118.85
1	B	333	VAL	N-CA-C	-8.00	102.74	110.42
1	A	88	VAL	CB-CA-C	-7.97	98.22	111.29
1	C	57	VAL	N-CA-C	-7.96	102.50	110.62
1	C	266	ALA	N-CA-C	7.96	121.07	107.93
1	C	127	VAL	N-CA-C	-7.95	96.61	108.85
1	C	153	ASP	CA-C-N	-7.92	113.20	122.63
1	C	153	ASP	C-N-CA	-7.92	113.20	122.63
1	B	219	LEU	N-CA-C	-7.91	98.58	110.28
1	A	107	VAL	CA-C-N	7.88	131.74	120.79
1	A	107	VAL	C-N-CA	7.88	131.74	120.79
1	A	47	ALA	CA-C-O	-7.87	112.23	120.89
1	B	345	VAL	N-CA-CB	7.86	118.87	110.62
1	A	833	PRO	N-CA-C	-7.85	103.05	113.65
1	C	753	ALA	N-CA-C	-7.83	103.86	113.41
1	C	165	ALA	CA-C-N	-7.82	107.89	121.97
1	C	165	ALA	C-N-CA	-7.82	107.89	121.97
1	A	107	VAL	CB-CA-C	-7.82	102.04	111.81
1	B	238	THR	N-CA-C	7.79	119.97	108.60
1	A	821	GLY	N-CA-C	-7.76	105.45	114.69
1	C	773	VAL	N-CA-C	-7.75	96.96	108.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	452	VAL	N-CA-C	-7.74	102.54	113.07
1	B	1007	VAL	CB-CA-C	-7.71	103.10	110.65
1	B	988	PRO	N-CA-C	-7.69	99.67	111.13
1	C	685	ILE	N-CA-C	7.68	118.88	110.21
1	A	108	GLN	CB-CA-C	-7.67	98.72	110.92
1	C	175	VAL	N-CA-C	7.65	119.67	107.73
1	C	140	VAL	CA-C-N	7.64	128.95	121.62
1	C	140	VAL	C-N-CA	7.64	128.95	121.62
1	A	884	VAL	N-CA-C	-7.62	103.37	110.53
1	B	58	GLN	N-CA-C	-7.60	100.47	110.43
1	B	480	LEU	N-CA-C	-7.58	103.64	113.12
1	A	937	LEU	N-CA-C	-7.55	102.40	111.69
1	A	92	LEU	CA-C-N	7.54	132.78	120.94
1	A	92	LEU	C-N-CA	7.54	132.78	120.94
1	B	415	ASN	N-CA-C	-7.54	103.01	114.16
1	C	567	GLU	N-CA-C	7.53	120.85	109.41
1	C	201	VAL	N-CA-C	-7.49	102.98	110.62
1	C	788	ASP	N-CA-C	-7.49	104.76	114.04
1	A	426	PRO	CA-C-N	7.48	129.19	119.84
1	A	426	PRO	C-N-CA	7.48	129.19	119.84
1	B	38	ILE	CB-CA-C	-7.48	104.39	111.05
1	A	637	ARG	CA-C-N	7.44	129.14	119.84
1	A	637	ARG	C-N-CA	7.44	129.14	119.84
1	B	102	ILE	N-CA-C	-7.41	104.56	111.45
1	A	568	ASP	N-CA-C	-7.40	98.87	109.96
1	C	181	GLN	N-CA-C	-7.39	100.57	110.55
1	C	265	VAL	CA-C-N	-7.39	109.61	121.58
1	C	265	VAL	C-N-CA	-7.39	109.61	121.58
1	A	62	THR	CB-CA-C	-7.38	98.53	110.79
1	C	572	PHE	CA-C-N	-7.38	109.83	123.03
1	C	572	PHE	C-N-CA	-7.38	109.83	123.03
1	C	943	ILE	N-CA-C	-7.38	103.67	110.82
1	B	986	VAL	N-CA-C	-7.37	104.33	112.80
1	B	707	ALA	N-CA-C	-7.35	100.62	110.55
1	A	132	SER	N-CA-C	7.34	120.38	108.63
1	C	233	SER	CA-C-N	-7.34	112.93	123.06
1	C	233	SER	C-N-CA	-7.34	112.93	123.06
1	B	1030	ARG	N-CA-C	-7.34	100.82	110.43
1	C	637	ARG	CA-C-N	7.32	127.25	119.85
1	C	637	ARG	C-N-CA	7.32	127.25	119.85
1	A	58	GLN	CA-C-N	-7.32	110.63	122.26
1	A	58	GLN	C-N-CA	-7.32	110.63	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	87	THR	N-CA-C	7.31	121.49	109.06
1	B	24	GLY	N-CA-C	-7.27	105.80	115.40
1	A	45	ILE	CB-CG1-CD1	-7.24	98.60	113.80
1	B	493	CYS	N-CA-C	-7.23	100.96	110.43
1	A	273	GLU	CA-C-N	-7.17	110.45	122.64
1	A	273	GLU	C-N-CA	-7.17	110.45	122.64
1	A	67	GLN	CB-CG-CD	7.17	124.78	112.60
1	C	159	ALA	CA-C-N	-7.16	107.86	121.54
1	C	159	ALA	C-N-CA	-7.16	107.86	121.54
1	B	552	MET	N-CA-C	-7.16	103.41	111.14
1	A	30	LEU	CA-C-N	-7.15	113.31	120.31
1	A	30	LEU	C-N-CA	-7.15	113.31	120.31
1	C	726	GLN	N-CA-C	-7.14	98.55	109.41
1	C	624	THR	CB-CA-C	-7.12	97.87	111.48
1	A	118	LEU	CB-CA-C	7.09	120.69	109.27
1	C	990	VAL	N-CA-C	7.06	124.02	109.34
1	C	874	PRO	N-CA-C	-7.04	103.75	113.53
1	C	44	THR	N-CA-C	7.01	122.36	107.70
1	A	64	VAL	CB-CA-C	-6.97	99.86	111.29
1	A	70	ASN	N-CA-C	-6.97	97.22	109.06
1	A	710	PRO	N-CA-C	-6.97	107.43	114.68
1	A	310	LEU	N-CA-C	-6.97	103.30	111.03
1	C	785	ASP	N-CA-C	-6.94	104.62	113.23
1	C	759	VAL	N-CA-C	6.89	117.40	110.23
1	B	292	LYS	N-CA-C	6.88	121.09	110.42
1	C	894	SER	N-CA-C	6.88	119.62	108.41
1	A	405	LEU	N-CA-C	-6.87	102.14	112.04
1	B	1008	MET	N-CA-C	-6.87	102.89	112.45
1	A	284	GLN	CA-C-N	6.86	127.27	119.93
1	A	284	GLN	C-N-CA	6.86	127.27	119.93
1	A	122	VAL	N-CA-C	-6.85	104.18	110.82
1	B	175	VAL	CB-CA-C	-6.84	100.07	111.29
1	A	93	THR	N-CA-C	-6.84	100.85	110.50
1	C	11	PHE	N-CA-C	-6.83	104.63	114.12
1	B	166	ILE	N-CA-C	-6.82	103.66	110.62
1	A	257	GLY	N-CA-C	-6.80	103.19	114.48
1	A	46	SER	CA-C-O	-6.80	113.36	121.66
1	A	729	ILE	CG1-CB-CG2	-6.79	90.34	110.70
1	B	768	VAL	CB-CA-C	-6.77	101.24	111.33
1	C	88	VAL	CB-CA-C	-6.77	100.26	110.55
1	A	855	VAL	N-CA-C	6.76	117.77	108.84
1	C	127	VAL	CA-C-N	-6.76	111.54	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	127	VAL	C-N-CA	-6.76	111.54	122.36
1	A	835	LYS	N-CA-C	6.76	119.25	110.53
1	B	7	ASP	N-CA-C	-6.76	96.02	107.99
1	C	241	THR	N-CA-C	6.76	124.66	113.50
1	A	115	MET	CA-C-N	-6.75	111.40	119.84
1	A	115	MET	C-N-CA	-6.75	111.40	119.84
1	A	768	VAL	CB-CA-C	-6.75	101.97	111.28
1	C	117	LEU	CA-C-N	-6.74	110.08	120.86
1	C	117	LEU	C-N-CA	-6.74	110.08	120.86
1	C	302	THR	N-CA-C	-6.73	103.75	112.23
1	B	668	LEU	CA-C-N	6.73	128.25	119.84
1	B	668	LEU	C-N-CA	6.73	128.25	119.84
1	A	518	ARG	N-CA-C	-6.72	104.95	113.02
1	C	286	ALA	N-CA-C	6.71	117.49	108.23
1	A	812	GLY	N-CA-C	-6.71	97.92	110.66
1	A	940	LYS	N-CA-C	-6.70	103.91	111.14
1	C	166	ILE	CB-CA-C	6.70	122.27	111.29
1	C	124	GLN	N-CA-C	-6.68	104.07	111.82
1	C	167	SER	CA-CB-OG	-6.68	97.74	111.10
1	C	1004	GLY	N-CA-C	6.67	120.74	112.73
1	A	707	ALA	N-CA-C	-6.66	104.63	112.89
1	B	905	VAL	N-CA-CB	6.64	114.97	110.52
1	B	61	VAL	N-CA-C	-6.63	106.33	112.96
1	C	397	GLY	N-CA-C	-6.63	106.13	114.16
1	C	102	ILE	CB-CA-C	-6.62	103.54	111.81
1	A	72	ILE	CB-CG1-CD1	-6.60	99.94	113.80
1	C	68	ASN	N-CA-C	6.59	122.17	113.20
1	C	270	LEU	N-CA-C	-6.59	99.28	109.76
1	B	218	GLN	N-CA-C	6.57	120.31	108.48
1	A	695	LEU	CA-C-N	-6.55	112.27	122.42
1	A	695	LEU	C-N-CA	-6.55	112.27	122.42
1	C	69	MET	CG-SD-CE	-6.54	86.50	100.90
1	B	52	ALA	N-CA-C	6.54	120.27	111.24
1	B	769	LYS	N-CA-C	6.54	118.46	109.18
1	B	719	ASN	N-CA-C	-6.52	104.25	111.36
1	B	425	LEU	CA-C-N	6.48	127.05	120.38
1	B	425	LEU	C-N-CA	6.48	127.05	120.38
1	A	891	LEU	N-CA-C	-6.47	103.91	110.97
1	A	1000	GLN	N-CA-C	-6.47	103.91	110.97
1	B	695	LEU	N-CA-C	-6.47	103.74	111.69
1	C	864	TYR	N-CA-C	-6.46	104.16	111.07
1	C	657	GLN	N-CA-C	-6.45	102.56	108.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	690	LEU	CA-C-N	-6.44	112.46	121.67
1	A	690	LEU	C-N-CA	-6.44	112.46	121.67
1	A	39	ALA	CA-C-N	-6.43	113.75	120.38
1	A	39	ALA	C-N-CA	-6.43	113.75	120.38
1	A	90	ILE	CB-CG1-CD1	-6.43	100.30	113.80
1	A	525	HIS	N-CA-C	-6.42	103.57	111.40
1	A	53	ASP	N-CA-C	-6.41	97.15	110.80
1	C	772	TYR	OH-CZ-CE2	-6.41	100.68	119.90
1	C	402	ILE	N-CA-C	-6.40	104.36	113.07
1	B	996	GLY	N-CA-C	-6.40	107.63	114.67
1	C	53	ASP	N-CA-C	6.39	118.47	107.28
1	A	571	VAL	N-CA-C	6.38	116.32	108.53
1	A	201	VAL	CB-CA-C	-6.38	103.81	111.97
1	B	231	ASN	CB-CA-C	-6.37	100.34	110.14
1	B	771	VAL	CB-CA-C	-6.36	100.85	111.29
1	A	75	LEU	N-CA-C	6.36	118.98	109.25
1	C	420	MET	N-CA-C	-6.34	105.18	113.17
1	B	1007	VAL	N-CA-C	-6.31	107.34	113.53
1	A	813	SER	CB-CA-C	6.31	117.07	109.31
1	C	709	HIS	CA-C-N	-6.30	113.27	120.89
1	C	709	HIS	C-N-CA	-6.30	113.27	120.89
1	A	274	ASN	N-CA-C	-6.29	100.04	110.17
1	B	859	TRP	N-CA-C	6.29	120.30	110.17
1	B	946	VAL	N-CA-C	-6.29	103.23	111.09
1	B	174	ASP	CA-C-O	-6.29	115.41	122.01
1	C	13	TRP	N-CA-C	-6.29	105.98	113.21
1	A	158	VAL	CB-CA-C	-6.26	102.91	112.05
1	C	145	THR	N-CA-C	6.25	117.78	110.97
1	C	6	ILE	N-CA-CB	6.24	117.17	110.62
1	B	782	LEU	CA-C-N	6.23	127.63	119.84
1	B	782	LEU	C-N-CA	6.23	127.63	119.84
1	C	708	LYS	N-CA-C	-6.23	105.16	112.89
1	B	450	SER	N-CA-C	-6.23	104.89	113.18
1	C	347	ALA	N-CA-C	-6.23	105.68	113.28
1	C	755	GLY	N-CA-C	-6.22	100.03	111.04
1	C	781	MET	CB-CG-SD	-6.20	94.10	112.70
1	B	488	LEU	N-CA-C	-6.20	105.37	113.12
1	A	124	GLN	N-CA-C	6.19	117.72	110.97
1	C	49	TYR	CA-C-N	6.19	127.58	119.84
1	C	49	TYR	C-N-CA	6.19	127.58	119.84
1	C	1022	VAL	CA-C-N	-6.19	112.53	118.97
1	C	1022	VAL	C-N-CA	-6.19	112.53	118.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	68	ASN	N-CA-C	6.19	119.00	111.82
1	B	299	ALA	N-CA-C	-6.19	104.59	111.71
1	B	405	LEU	N-CA-C	-6.19	105.44	112.87
1	B	26	ALA	N-CA-C	-6.18	106.10	113.21
1	A	51	GLY	N-CA-C	-6.17	98.55	113.18
1	C	102	ILE	CA-C-N	-6.17	112.22	120.79
1	C	102	ILE	C-N-CA	-6.17	112.22	120.79
1	C	223	PRO	CA-C-N	6.16	127.54	119.84
1	C	223	PRO	C-N-CA	6.16	127.54	119.84
1	B	953	MET	N-CA-C	-6.16	103.46	111.71
1	C	151	GLN	N-CA-C	-6.15	103.90	111.40
1	C	228	GLN	N-CA-C	6.15	119.42	109.40
1	B	222	THR	CA-C-N	6.14	126.71	120.38
1	B	222	THR	C-N-CA	6.14	126.71	120.38
1	B	38	ILE	N-CA-C	6.12	116.46	111.62
1	C	629	VAL	CB-CA-C	-6.12	102.66	111.34
1	B	431	THR	N-CA-C	-6.11	104.62	111.28
1	A	416	VAL	N-CA-C	6.10	116.84	110.62
1	A	656	SER	N-CA-C	-6.10	97.81	110.80
1	B	609	VAL	N-CA-C	6.10	116.97	107.28
1	C	240	LEU	CA-C-N	-6.08	110.80	120.17
1	C	240	LEU	C-N-CA	-6.08	110.80	120.17
1	A	109	ASN	N-CA-C	6.08	123.75	110.80
1	C	325	TYR	N-CA-C	6.06	119.61	108.94
1	B	905	VAL	N-CA-C	-6.05	105.11	112.67
1	C	973	ARG	N-CA-C	-6.04	105.79	113.77
1	C	12	ALA	N-CA-C	-6.04	106.04	113.41
1	B	235	ILE	CB-CA-C	-6.04	101.39	111.29
1	C	45	ILE	CA-C-O	-6.03	113.24	120.78
1	A	185	ARG	NE-CZ-NH1	-6.02	115.48	121.50
1	C	102	ILE	CA-C-O	-6.02	114.85	121.29
1	C	127	VAL	CA-C-O	-6.02	113.38	121.32
1	A	181	GLN	N-CA-C	-6.00	98.01	110.80
1	A	934	THR	N-CA-C	6.00	117.82	111.28
1	B	224	PRO	CA-C-N	5.98	128.66	120.35
1	B	224	PRO	C-N-CA	5.98	128.66	120.35
1	C	43	VAL	CA-C-N	-5.98	114.34	122.95
1	C	43	VAL	C-N-CA	-5.98	114.34	122.95
1	C	288	GLY	N-CA-C	5.98	120.48	110.56
1	B	270	LEU	CD1-CG-CD2	-5.97	97.67	110.80
1	C	284	GLN	N-CA-C	-5.96	102.64	110.39
1	A	64	VAL	O-C-N	5.96	130.02	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	67	GLN	O-C-N	5.96	128.28	122.09
1	C	164	ASP	CB-CG-OD1	-5.91	104.80	118.40
1	B	759	VAL	N-CA-C	-5.91	106.48	111.56
1	C	135	SER	N-CA-CB	-5.89	100.80	110.41
1	B	84	SER	N-CA-C	5.89	121.03	111.37
1	A	383	LEU	N-CA-C	-5.89	104.94	111.36
1	A	231	ASN	N-CA-C	-5.88	99.60	109.07
1	C	32	VAL	CB-CA-C	-5.88	101.64	111.29
1	C	63	GLN	N-CA-CB	5.88	118.86	110.16
1	A	55	LYS	CD-CE-NZ	5.87	130.69	111.90
1	C	150	THR	N-CA-C	5.87	118.38	109.63
1	C	454	VAL	N-CA-C	5.87	121.55	108.88
1	C	576	VAL	CB-CA-C	-5.86	101.68	111.29
1	A	74	ASN	N-CA-C	5.85	123.25	110.80
1	C	163	LYS	CD-CE-NZ	-5.84	93.22	111.90
1	A	89	GLN	CA-C-N	5.83	132.47	121.97
1	A	89	GLN	C-N-CA	5.83	132.47	121.97
1	A	79	SER	N-CA-C	5.83	119.39	110.36
1	C	289	LEU	CA-C-N	5.82	125.86	120.34
1	C	289	LEU	C-N-CA	5.82	125.86	120.34
1	A	874	PRO	CB-CA-C	-5.81	101.97	111.56
1	C	751	GLY	N-CA-C	-5.81	99.42	113.18
1	C	85	THR	CB-CA-C	-5.80	98.89	110.42
1	A	1001	ASN	N-CA-C	-5.79	104.16	111.11
1	C	47	ALA	CA-C-O	-5.79	114.26	121.55
1	C	317	PHE	N-CA-CB	5.78	116.45	109.74
1	C	91	THR	CB-CA-C	5.78	119.75	110.16
1	C	96	SER	CA-C-N	-5.77	117.18	123.30
1	C	96	SER	C-N-CA	-5.77	117.18	123.30
1	C	765	ARG	NE-CZ-NH2	5.76	124.38	119.20
1	A	298	ASN	N-CA-C	5.75	118.08	108.02
1	C	265	VAL	N-CA-C	-5.75	105.20	113.07
1	B	46	SER	CB-CA-C	-5.74	104.31	111.43
1	B	613	ASN	N-CA-C	5.74	123.03	110.80
1	A	841	MET	N-CA-C	-5.74	104.64	111.69
1	C	45	ILE	CB-CG1-CD1	-5.73	101.76	113.80
1	C	840	ALA	N-CA-C	-5.73	104.02	111.02
1	C	120	GLN	O-C-N	5.73	128.20	122.12
1	A	44	THR	CA-C-O	5.73	128.57	121.81
1	C	72	ILE	CA-C-N	-5.73	111.94	120.94
1	C	72	ILE	C-N-CA	-5.73	111.94	120.94
1	B	352	PHE	N-CA-C	-5.73	105.95	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	44	THR	O-C-N	-5.73	114.28	122.99
1	A	873	ALA	CA-C-N	5.72	126.99	119.84
1	A	873	ALA	C-N-CA	5.72	126.99	119.84
1	B	106	GLN	N-CA-CB	5.72	118.53	110.12
1	B	678	THR	N-CA-C	5.72	118.12	110.35
1	A	271	GLY	N-CA-C	-5.71	102.90	111.19
1	C	133	SER	CA-CB-OG	-5.71	99.67	111.10
1	C	910	ILE	CB-CA-C	-5.71	104.56	112.04
1	C	90	ILE	CA-C-N	-5.71	114.95	123.00
1	C	90	ILE	C-N-CA	-5.71	114.95	123.00
1	B	717	ARG	CA-C-N	-5.70	114.09	119.90
1	B	717	ARG	C-N-CA	-5.70	114.09	119.90
1	C	913	LEU	N-CA-C	-5.69	106.41	113.19
1	C	614	GLY	N-CA-C	-5.69	107.17	114.85
1	A	480	LEU	N-CA-C	-5.68	104.99	111.07
1	C	769	LYS	N-CA-C	5.68	118.33	109.52
1	C	203	VAL	CB-CA-C	-5.67	101.99	111.29
1	B	255	GLN	N-CA-C	5.67	117.91	111.11
1	C	627	ALA	N-CA-C	5.67	119.55	107.70
1	C	170	SER	N-CA-CB	5.66	118.69	109.69
1	A	715	SER	N-CA-C	-5.66	98.75	110.80
1	C	225	VAL	CB-CA-C	-5.66	104.01	111.70
1	B	768	VAL	CA-C-N	-5.63	112.98	123.01
1	B	768	VAL	C-N-CA	-5.63	112.98	123.01
1	C	909	VAL	CB-CA-C	-5.63	102.06	111.29
1	A	774	MET	CG-SD-CE	5.63	113.28	100.90
1	B	1015	THR	N-CA-C	-5.63	104.03	111.96
1	A	86	GLY	N-CA-C	-5.61	107.58	115.32
1	A	288	GLY	CA-C-N	5.60	130.65	121.58
1	A	288	GLY	C-N-CA	5.60	130.65	121.58
1	C	346	GLU	N-CA-C	5.60	118.31	111.82
1	A	573	MET	N-CA-C	5.59	117.68	109.24
1	B	327	TYR	N-CA-C	5.59	122.70	110.80
1	B	981	ALA	N-CA-C	-5.59	105.11	111.14
1	A	28	LEU	N-CA-C	5.59	117.05	111.07
1	C	595	THR	N-CA-C	-5.58	105.34	111.82
1	A	61	VAL	N-CA-C	5.58	120.95	109.34
1	A	143	ILE	N-CA-C	5.58	117.77	109.17
1	A	125	GLN	N-CA-CB	5.58	118.95	110.14
1	A	668	LEU	CA-C-N	5.58	125.56	120.21
1	A	668	LEU	C-N-CA	5.58	125.56	120.21
1	A	132	SER	CA-CB-OG	-5.57	99.95	111.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	45	ILE	CA-C-N	-5.57	112.61	122.74
1	A	45	ILE	C-N-CA	-5.57	112.61	122.74
1	C	822	LEU	CB-CA-C	5.57	117.12	108.61
1	A	316	PHE	N-CA-C	5.56	117.72	108.99
1	A	724	THR	CA-C-N	-5.56	114.86	120.31
1	A	724	THR	C-N-CA	-5.56	114.86	120.31
1	B	803	ALA	N-CA-C	-5.56	106.57	113.19
1	A	356	TYR	CB-CA-C	-5.56	102.08	110.92
1	B	74	ASN	N-CA-CB	-5.55	103.81	112.41
1	C	214	VAL	CB-CA-C	-5.55	102.19	111.29
1	A	962	GLU	N-CA-C	-5.54	105.16	111.14
1	A	820	ASN	CB-CA-C	-5.54	99.41	110.42
1	C	132	SER	N-CA-C	5.53	116.37	108.74
1	A	105	VAL	CB-CA-C	-5.52	102.23	111.29
1	C	440	GLY	N-CA-C	-5.52	108.09	115.32
1	C	775	SER	N-CA-C	5.52	118.54	109.76
1	B	947	GLU	N-CA-C	-5.51	105.18	111.07
1	B	338	HIS	N-CA-C	-5.50	104.92	111.69
1	C	897	ILE	N-CA-CB	5.50	114.20	110.52
1	A	993	THR	N-CA-C	5.50	117.77	109.41
1	C	770	LYS	CA-CB-CG	5.50	125.10	114.10
1	B	46	SER	CA-CB-OG	-5.50	100.11	111.10
1	C	170	SER	O-C-N	5.49	129.67	122.97
1	C	322	LYS	N-CA-C	5.49	119.01	110.17
1	C	767	ARG	NE-CZ-NH1	-5.49	116.01	121.50
1	C	158	VAL	N-CA-CB	5.49	116.97	110.55
1	C	491	ALA	N-CA-C	-5.49	99.12	110.80
1	C	157	TYR	CA-CB-CG	-5.48	104.03	113.90
1	B	587	THR	N-CA-C	-5.48	104.54	111.11
1	C	912	ALA	N-CA-C	5.48	117.68	111.11
1	A	1030	ARG	N-CA-C	-5.47	106.56	113.23
1	B	819	TYR	N-CA-C	-5.46	100.77	109.23
1	C	209	ALA	CA-C-N	5.46	128.61	120.31
1	C	209	ALA	C-N-CA	5.46	128.61	120.31
1	B	8	ARG	CA-C-N	5.46	125.15	119.64
1	B	8	ARG	C-N-CA	5.46	125.15	119.64
1	C	158	VAL	O-C-N	5.46	127.26	121.91
1	B	693	GLU	N-CA-C	-5.44	99.21	110.80
1	A	856	GLY	N-CA-C	-5.44	103.03	112.06
1	C	612	VAL	N-CA-C	5.44	115.82	107.77
1	C	518	ARG	N-CA-C	5.43	119.41	112.34
1	A	66	GLU	CG-CD-OE2	-5.43	105.90	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	396	PHE	N-CA-C	-5.43	104.40	111.02
1	C	166	ILE	N-CA-CB	5.42	120.17	111.23
1	C	1016	VAL	N-CA-CB	5.42	116.77	110.65
1	B	64	VAL	CB-CA-C	-5.42	105.04	111.81
1	B	237	GLN	CA-C-O	-5.42	115.91	122.03
1	C	239	ARG	NE-CZ-NH1	-5.41	116.09	121.50
1	B	346	GLU	N-CA-C	5.40	119.37	112.34
1	A	456	MET	N-CA-C	-5.39	103.37	110.33
1	C	494	ALA	N-CA-C	-5.39	102.35	110.06
1	B	106	GLN	CA-C-O	-5.38	114.84	120.55
1	C	778	LYS	N-CA-C	5.38	122.27	110.80
1	C	144	ASN	N-CA-C	5.38	118.27	107.41
1	C	854	GLY	CA-C-N	-5.38	115.89	122.93
1	C	854	GLY	C-N-CA	-5.38	115.89	122.93
1	A	127	VAL	N-CA-C	-5.37	100.01	107.80
1	A	944	LEU	N-CA-C	5.37	116.83	110.97
1	A	578	LEU	CA-C-N	-5.36	113.14	119.84
1	A	578	LEU	C-N-CA	-5.36	113.14	119.84
1	A	64	VAL	CA-C-N	-5.36	112.32	121.97
1	A	64	VAL	C-N-CA	-5.36	112.32	121.97
1	C	199	THR	CA-C-N	-5.36	114.09	119.56
1	C	199	THR	C-N-CA	-5.36	114.09	119.56
1	A	84	SER	N-CA-C	5.36	122.21	110.80
1	A	497	LEU	N-CA-C	5.35	117.44	109.25
1	C	457	ALA	N-CA-C	-5.35	104.27	111.54
1	B	685	ILE	N-CA-C	5.34	116.58	109.37
1	A	994	GLY	N-CA-C	-5.33	100.54	113.18
1	C	626	ILE	CA-C-N	-5.33	115.27	122.95
1	C	626	ILE	C-N-CA	-5.33	115.27	122.95
1	C	799	VAL	CA-C-N	5.33	126.51	119.84
1	C	799	VAL	C-N-CA	5.33	126.51	119.84
1	A	92	LEU	CB-CA-C	-5.33	104.44	111.42
1	A	804	PHE	N-CA-C	5.33	118.91	111.56
1	A	823	PRO	N-CA-C	-5.32	102.58	111.26
1	B	121	GLU	N-CA-C	-5.32	105.14	111.69
1	A	66	GLU	CA-C-O	-5.32	112.90	120.51
1	C	83	ASP	N-CA-C	-5.32	102.64	110.52
1	B	150	THR	N-CA-C	5.32	117.49	109.41
1	B	166	ILE	CB-CA-C	-5.30	104.99	112.14
1	B	830	GLN	N-CA-C	5.29	118.44	108.65
1	A	64	VAL	N-CA-CB	5.29	119.95	111.23
1	B	182	TYR	N-CA-C	5.29	117.36	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	532	GLY	N-CA-C	-5.28	105.86	111.93
1	A	687	GLN	N-CA-C	5.28	122.05	110.80
1	A	81	ASN	N-CA-C	5.28	118.42	109.76
1	A	6	ILE	N-CA-C	-5.27	104.50	111.09
1	A	547	ILE	N-CA-C	-5.27	105.19	110.30
1	B	948	PHE	N-CA-C	5.26	117.10	111.36
1	A	53	ASP	O-C-N	5.26	129.58	122.59
1	B	412	VAL	N-CA-C	-5.26	107.27	113.42
1	C	768	VAL	CG1-CB-CG2	-5.26	99.23	110.80
1	A	65	ILE	CB-CG1-CD1	-5.25	102.77	113.80
1	A	694	LYS	CA-CB-CG	-5.25	103.59	114.10
1	A	102	ILE	N-CA-C	5.25	119.82	113.00
1	B	304	ALA	N-CA-C	5.25	117.75	111.71
1	A	14	VAL	CB-CA-C	5.25	118.37	111.81
1	C	452	VAL	CA-C-N	-5.25	115.29	121.90
1	C	452	VAL	C-N-CA	-5.25	115.29	121.90
1	C	756	GLY	N-CA-C	-5.25	104.40	112.85
1	A	70	ASN	O-C-N	-5.24	116.98	123.33
1	C	54	ALA	CA-C-N	-5.24	112.73	120.28
1	C	54	ALA	C-N-CA	-5.24	112.73	120.28
1	B	350	LEU	CB-CG-CD1	-5.24	94.98	110.70
1	C	303	ALA	N-CA-C	-5.24	105.63	112.23
1	C	9	PRO	N-CA-C	-5.24	101.69	112.47
1	A	48	SER	CB-CA-C	-5.23	99.06	109.79
1	A	837	THR	N-CA-C	-5.23	104.83	111.11
1	C	751	GLY	CA-C-N	-5.23	114.08	122.08
1	C	751	GLY	C-N-CA	-5.23	114.08	122.08
1	C	328	ASP	O-C-N	-5.23	117.08	123.30
1	A	858	ASP	N-CA-C	-5.23	100.50	108.76
1	B	410	ILE	CB-CA-C	5.22	118.77	111.92
1	A	991	ILE	CA-C-N	-5.21	115.44	122.95
1	A	991	ILE	C-N-CA	-5.21	115.44	122.95
1	C	815	ARG	CA-C-N	-5.21	115.76	123.05
1	C	815	ARG	C-N-CA	-5.21	115.76	123.05
1	A	463	THR	N-CA-C	-5.21	102.31	110.17
1	B	398	MET	CB-CG-SD	-5.21	97.08	112.70
1	B	897	ILE	N-CA-CB	5.21	113.78	110.50
1	A	87	THR	N-CA-C	5.20	118.59	110.32
1	C	94	PHE	N-CA-C	5.20	117.24	110.43
1	A	647	ILE	CB-CA-C	-5.20	104.11	112.16
1	B	30	LEU	CA-CB-CG	5.20	134.48	116.30
1	A	791	VAL	N-CA-C	5.19	116.06	108.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1021	PHE	N-CA-C	5.19	116.74	111.14
1	B	410	ILE	N-CA-C	-5.19	106.63	111.45
1	B	306	ILE	CA-C-N	-5.18	112.82	120.28
1	B	306	ILE	C-N-CA	-5.18	112.82	120.28
1	B	200	PRO	N-CA-C	-5.18	107.11	113.84
1	C	184	MET	N-CA-C	-5.17	101.54	109.76
1	B	145	THR	N-CA-C	-5.17	103.32	110.35
1	C	73	ASP	N-CA-CB	5.16	117.60	110.17
1	B	800	PRO	CB-CA-C	-5.16	105.22	111.46
1	A	124	GLN	CB-CG-CD	-5.16	103.83	112.60
1	A	93	THR	CA-CB-OG1	-5.15	101.87	109.60
1	C	129	VAL	CA-C-N	-5.15	114.17	122.82
1	C	129	VAL	C-N-CA	-5.15	114.17	122.82
1	A	27	ILE	CB-CA-C	-5.15	105.11	111.70
1	B	166	ILE	CG1-CB-CG2	-5.14	95.27	110.70
1	B	227	GLY	CA-C-N	5.14	131.35	121.54
1	B	227	GLY	C-N-CA	5.14	131.35	121.54
1	C	824	SER	CB-CA-C	-5.14	101.67	111.48
1	B	761	ASP	N-CA-C	-5.13	101.03	109.40
1	C	385	ALA	N-CA-C	-5.13	104.76	111.02
1	A	82	SER	CB-CA-C	-5.12	103.98	111.77
1	A	67	GLN	N-CA-CB	5.11	119.13	110.49
1	C	816	LEU	N-CA-CB	5.11	118.57	110.55
1	A	127	VAL	CA-C-N	-5.10	113.34	122.07
1	A	127	VAL	C-N-CA	-5.10	113.34	122.07
1	C	484	VAL	N-CA-C	-5.10	105.52	110.42
1	A	73	ASP	N-CA-CB	-5.10	101.87	110.49
1	A	270	LEU	CA-C-O	-5.08	116.16	121.55
1	C	969	ARG	N-CA-C	-5.08	105.65	111.14
1	C	1003	VAL	CA-C-N	5.08	125.62	119.98
1	C	1003	VAL	C-N-CA	5.08	125.62	119.98
1	A	402	ILE	O-C-N	5.08	127.54	121.80
1	C	307	ARG	CA-C-N	-5.07	112.26	121.14
1	C	307	ARG	C-N-CA	-5.07	112.26	121.14
1	C	960	LEU	CA-C-N	5.07	128.68	121.02
1	C	960	LEU	C-N-CA	5.07	128.68	121.02
1	C	615	PHE	CA-C-N	5.07	125.81	120.43
1	C	615	PHE	C-N-CA	5.07	125.81	120.43
1	C	316	PHE	N-CA-CB	5.07	118.92	111.01
1	A	93	THR	CA-C-N	5.06	130.64	122.29
1	A	93	THR	C-N-CA	5.06	130.64	122.29
1	C	951	ASP	N-CA-C	-5.06	100.02	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	30	LEU	CB-CA-C	5.05	117.60	109.41
1	C	168	ARG	CG-CD-NE	-5.05	100.88	112.00
1	C	579	PRO	CB-CA-C	-5.05	103.40	110.63
1	C	682	PHE	CB-CA-C	-5.05	104.09	111.77
1	B	306	ILE	N-CA-C	-5.05	104.98	110.23
1	C	817	GLU	N-CA-C	-5.04	102.30	110.32
1	A	960	LEU	CA-CB-CG	5.04	133.93	116.30
1	B	49	TYR	CB-CA-C	5.04	117.18	110.13
1	C	65	ILE	CG1-CB-CG2	-5.04	95.59	110.70
1	A	123	GLN	N-CA-CB	5.03	118.08	110.28
1	C	738	ALA	N-CA-C	-5.03	105.88	111.36
1	A	959	GLY	N-CA-C	5.02	118.80	110.97
1	A	691	GLY	N-CA-C	5.02	120.79	112.66
1	C	313	MET	CG-SD-CE	-5.02	89.86	100.90
1	A	71	GLY	N-CA-C	-5.02	101.29	113.18
1	C	726	GLN	CA-C-O	-5.02	115.76	121.58
1	C	62	THR	CA-C-O	-5.01	113.34	120.51
1	C	211	ASN	O-C-N	5.01	129.52	123.01

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	860	THR	Peptide
1	A	949	ALA	Peptide
1	B	706	ALA	Peptide
1	C	157	TYR	Sidechain
1	C	160	ALA	Mainchain
1	C	166	ILE	Peptide
1	C	751	GLY	Peptide

5.2 Too-close contacts [\(i\)](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7774	0	7931	1330	0
1	B	7774	0	7931	1443	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	7774	0	7931	1384	0
2	A	33	0	25	2	0
All	All	23355	0	23818	4042	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 86.

All (4042) 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:C:166:ILE:CA	1:C:166:ILE:CB	1.74	1.60
1:C:45:ILE:CA	1:C:45:ILE:CB	1.75	1.60
1:A:90:ILE:CG1	1:A:90:ILE:CD1	1.80	1.58
1:A:814:PRO:CB	1:A:814:PRO:CG	1.74	1.56
1:A:818:ARG:CG	1:A:818:ARG:CD	1.82	1.55
1:C:167:SER:N	1:C:167:SER:CA	1.68	1.53
1:C:291:ILE:CD1	1:C:291:ILE:CG1	1.86	1.52
1:B:247:GLY:HA2	1:B:268:ILE:CD1	1.52	1.38
1:B:247:GLY:CA	1:B:268:ILE:HD13	1.58	1.33
1:B:946:VAL:HG22	1:B:1026:PHE:CZ	1.64	1.30
1:C:162:MET:CG	1:C:313:MET:HE3	1.61	1.29
1:C:162:MET:HB3	1:C:313:MET:CE	1.65	1.26
1:A:61:VAL:O	1:A:65:ILE:HG22	1.28	1.25
1:A:108:GLN:HG3	1:B:112:GLN:OE1	1.12	1.25
1:B:49:TYR:CE1	1:B:122:VAL:HG13	1.72	1.22
1:A:713:LEU:O	1:A:714:THR:HG23	1.39	1.21
1:A:61:VAL:O	1:A:65:ILE:CG2	1.87	1.21
1:B:712:MET:HB3	1:B:713:LEU:HD12	1.23	1.19
1:A:971:ARG:O	1:A:974:PRO:HD2	1.38	1.19
1:C:115:MET:HE2	1:C:118:LEU:HD22	1.20	1.19
1:B:904:VAL:HG13	1:B:907:LEU:CD1	1.74	1.18
1:B:412:VAL:HG13	1:B:435:MET:HE1	1.24	1.18
1:C:115:MET:CE	1:C:118:LEU:CD2	2.23	1.17
1:C:162:MET:HG2	1:C:313:MET:CE	1.75	1.16
1:B:990:VAL:HG13	1:B:1005:THR:OG1	1.42	1.16
1:C:115:MET:CE	1:C:118:LEU:HD22	1.73	1.16
1:A:742:SER:OG	1:A:745:ASP:HB2	1.43	1.16
1:B:1:MET:HB2	1:B:2:PRO:HD2	1.17	1.16
1:A:54:ALA:HB1	1:A:816:LEU:HG	1.28	1.15
1:A:979:SER:OG	1:A:1015:THR:HG21	1.45	1.15
1:C:291:ILE:HD13	1:C:306:ILE:HD13	1.24	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:60:THR:CG2	1:A:119:PRO:HG3	1.77	1.14
1:A:108:GLN:CG	1:B:112:GLN:OE1	1.95	1.14
1:A:729:ILE:HG22	1:A:730:ASP:H	1.02	1.14
1:C:162:MET:HG2	1:C:313:MET:HE3	1.20	1.14
1:A:359:LEU:CD1	1:A:417:GLU:HG2	1.78	1.13
1:A:276:ASP:HB3	1:C:222:THR:HG23	1.29	1.13
1:B:42:ALA:HB2	1:B:93:THR:HG22	1.29	1.13
1:A:418:ARG:HG2	1:A:970:MET:HE3	1.31	1.13
1:B:904:VAL:CG1	1:B:907:LEU:HD12	1.79	1.13
1:C:350:LEU:HD13	1:C:984:LEU:HD22	1.16	1.13
1:A:919:ARG:CG	1:A:920:GLY:H	1.62	1.12
1:A:965:LEU:O	1:A:969:ARG:HG3	1.49	1.12
1:A:531:VAL:HA	1:A:534:ILE:HD11	1.13	1.12
1:A:790:TYR:CE1	1:A:800:PRO:HG3	1.84	1.12
1:B:242:SER:HB2	1:B:245:GLU:OE2	1.50	1.12
1:B:291:ILE:HG21	1:B:306:ILE:HD11	1.24	1.12
1:B:144:ASN:HB2	1:B:320:GLY:O	1.48	1.11
1:C:699:ARG:HG2	1:C:699:ARG:HH11	1.11	1.11
1:A:359:LEU:HD12	1:A:417:GLU:HG2	1.18	1.11
1:B:523:SER:HA	1:B:526:HIS:HD2	1.00	1.11
1:B:972:LEU:HD13	1:B:976:LEU:HD23	1.28	1.11
1:C:427:PRO:CA	1:C:498:LYS:HE3	1.80	1.11
1:C:463:THR:HG22	1:C:464:GLY:H	1.15	1.11
1:A:344:LEU:HD23	1:A:402:ILE:HD13	1.22	1.11
1:A:790:TYR:HE1	1:A:800:PRO:HG3	1.02	1.11
1:A:919:ARG:HG3	1:A:920:GLY:H	1.01	1.11
1:A:945:ILE:HG12	1:A:971:ARG:HG2	1.23	1.11
1:C:162:MET:CB	1:C:313:MET:CE	2.28	1.11
1:C:431:THR:HG21	1:C:494:ALA:HB2	1.30	1.11
1:C:1025:PHE:O	1:C:1029:VAL:HG23	1.50	1.11
1:B:225:VAL:HG22	1:C:781:MET:CE	1.79	1.10
1:C:115:MET:HE1	1:C:118:LEU:CD2	1.77	1.10
1:A:713:LEU:HB3	1:A:832:ALA:HA	1.28	1.09
1:A:560:PRO:HB2	1:A:922:THR:HG22	1.30	1.09
1:B:1022:VAL:O	1:B:1024:VAL:O	1.71	1.09
1:C:410:ILE:HG22	1:C:411:VAL:H	1.11	1.09
1:A:649:MET:HB3	1:A:653:ARG:HH21	1.11	1.09
1:A:713:LEU:HD22	1:A:714:THR:H	0.96	1.08
1:B:225:VAL:HG22	1:C:781:MET:HE2	1.28	1.08
1:B:226:LYS:HA	1:B:226:LYS:HE3	1.27	1.08
1:B:542:LEU:HD11	1:B:1028:VAL:HG11	1.36	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:VAL:HG23	1:A:258:SER:O	1.50	1.08
1:B:104:GLN:HG3	1:B:105:VAL:N	1.67	1.08
1:A:959:GLY:HA3	1:A:962:GLU:HB2	1.34	1.08
1:B:523:SER:HA	1:B:526:HIS:CD2	1.89	1.07
1:C:162:MET:CB	1:C:313:MET:HE3	1.82	1.07
1:B:49:TYR:CD2	1:B:122:VAL:HA	1.89	1.07
1:B:911:GLY:HA3	1:B:1013:THR:HG21	1.32	1.07
1:A:713:LEU:HD22	1:A:714:THR:N	1.70	1.07
1:A:1024:VAL:O	1:A:1026:PHE:N	1.86	1.07
1:C:712:MET:HB2	1:C:835:LYS:HG3	1.37	1.07
1:C:729:ILE:HD11	1:C:786:ILE:HD13	1.33	1.07
1:A:435:MET:HG2	1:A:490:PRO:HB3	1.37	1.06
1:B:894:SER:HB3	1:B:897:ILE:HG12	1.37	1.06
1:C:162:MET:CG	1:C:313:MET:CE	2.31	1.06
1:C:162:MET:HB3	1:C:313:MET:HE1	1.10	1.06
1:C:513:PHE:HA	1:C:516:PHE:HB3	1.31	1.06
1:C:365:THR:O	1:C:368:PRO:HD2	1.54	1.06
1:C:911:GLY:HA3	1:C:1013:THR:HG21	1.32	1.06
1:A:536:ARG:HG2	1:A:537:SER:H	1.17	1.05
1:B:742:SER:HB3	1:B:745:ASP:OD2	1.56	1.05
1:B:960:LEU:HD12	1:B:961:ILE:HG13	1.32	1.05
1:A:214:VAL:HG12	1:A:215:ALA:H	1.06	1.05
1:B:6:ILE:HD12	1:B:490:PRO:HB2	1.38	1.05
1:B:441:ALA:HB2	1:B:947:GLU:HG2	1.34	1.05
1:C:143:ILE:HD11	1:C:286:ALA:HB2	1.39	1.05
1:C:350:LEU:CD1	1:C:984:LEU:HD22	1.86	1.05
1:C:699:ARG:HH11	1:C:699:ARG:CG	1.68	1.05
1:C:901:VAL:O	1:C:904:VAL:HG23	1.57	1.05
1:B:49:TYR:CD1	1:B:122:VAL:HG13	1.92	1.04
1:C:713:LEU:HG	1:C:832:ALA:O	1.56	1.04
1:B:14:VAL:HG11	1:C:890:ALA:HB2	1.37	1.04
1:C:372:VAL:HG13	1:C:373:PRO:HD3	1.40	1.03
1:A:406:VAL:HG12	1:A:407:ASP:H	1.23	1.03
1:B:463:THR:HG21	1:B:869:SER:HB2	1.40	1.03
1:B:987:MET:HA	1:B:987:MET:HE3	1.04	1.03
1:C:463:THR:HG22	1:C:464:GLY:N	1.71	1.03
1:C:922:THR:HG22	1:C:923:ASN:H	1.21	1.03
1:A:443:VAL:HG12	1:A:444:GLY:H	1.23	1.03
1:C:1022:VAL:HA	1:C:1025:PHE:HD2	1.22	1.03
1:A:30:LEU:HD21	1:A:384:ALA:HB2	1.41	1.02
1:B:1018:ALA:O	1:B:1022:VAL:HG22	1.59	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:778:LYS:HD2	1:C:779:TYR:HE2	1.20	1.02
1:B:544:LEU:HA	1:B:547:ILE:HD12	1.40	1.02
1:C:950:LYS:NZ	1:C:1030:ARG:HD3	1.71	1.02
1:B:171:GLY:HA3	1:B:302:THR:HG22	1.41	1.02
1:B:644:VAL:HG23	1:B:645:GLU:H	1.20	1.02
1:C:674:LEU:HD11	1:C:862:MET:HA	1.40	1.02
1:C:841:MET:O	1:C:845:GLU:HG3	1.59	1.02
1:A:905:VAL:O	1:A:909:VAL:HG23	1.59	1.02
1:C:576:VAL:HG12	1:C:663:VAL:HG22	1.37	1.02
1:C:847:LEU:HA	1:C:850:LYS:HD3	1.37	1.02
1:B:406:VAL:O	1:B:408:ASP:O	1.77	1.02
1:A:406:VAL:CG1	1:A:407:ASP:N	2.22	1.01
1:B:399:VAL:O	1:B:402:ILE:HG22	1.58	1.01
1:B:431:THR:HG21	1:B:493:CYS:CB	1.91	1.01
1:A:713:LEU:CD2	1:A:714:THR:H	1.72	1.01
1:C:427:PRO:HA	1:C:498:LYS:HE3	1.04	1.01
1:B:431:THR:HG21	1:B:493:CYS:HB2	1.42	1.01
1:C:432:ARG:HG3	1:C:432:ARG:NH1	1.50	1.01
1:A:108:GLN:HG3	1:B:112:GLN:CD	1.86	1.01
1:A:690:LEU:CD1	1:A:854:GLY:HA3	1.89	1.01
1:B:456:MET:HG3	1:B:467:TYR:HB3	1.43	1.01
1:C:190:PRO:HD3	1:C:779:TYR:HD1	1.25	1.01
1:A:298:ASN:HD22	1:A:298:ASN:C	1.62	1.00
1:B:226:LYS:HA	1:B:226:LYS:CE	1.90	1.00
1:B:729:ILE:HG13	1:B:730:ASP:H	1.24	1.00
1:A:5:PHE:CD1	1:A:12:ALA:HB2	1.97	1.00
1:A:200:PRO:HG2	1:A:749:THR:HA	1.44	1.00
1:A:690:LEU:HD11	1:A:854:GLY:HA3	1.00	1.00
1:A:911:GLY:HA3	1:A:1013:THR:HG21	1.41	1.00
1:C:350:LEU:HD13	1:C:984:LEU:CD2	1.91	1.00
1:A:372:VAL:HG22	1:A:405:LEU:CD2	1.92	1.00
1:B:171:GLY:HA3	1:B:302:THR:CG2	1.90	1.00
1:B:986:VAL:O	1:B:990:VAL:HG23	1.60	1.00
1:C:314:GLU:HB2	1:C:315:PRO:HD3	1.42	1.00
1:C:432:ARG:HH11	1:C:432:ARG:CG	1.74	1.00
1:B:843:LEU:HD23	1:B:847:LEU:HD21	1.39	0.99
1:A:968:VAL:CG2	1:A:1023:PRO:HB3	1.92	0.99
1:C:695:LEU:HD22	1:C:825:MET:HE2	1.38	0.99
1:B:987:MET:HA	1:B:987:MET:CE	1.90	0.99
1:C:220:GLY:HA3	1:C:231:ASN:ND2	1.75	0.99
1:B:175:VAL:HG12	1:B:175:VAL:O	1.63	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:623:ASN:HD22	1:B:623:ASN:C	1.66	0.99
1:B:859:TRP:HB3	1:B:863:SER:HB3	1.42	0.99
1:A:400:LEU:HD13	1:A:1003:VAL:HG13	1.42	0.99
1:B:962:GLU:O	1:B:966:ASP:HB2	1.62	0.99
1:A:210:GLN:HG3	1:A:249:ILE:HG23	1.44	0.99
1:A:451:ALA:O	1:A:452:VAL:HG22	1.62	0.99
1:B:160:ALA:HB1	1:B:767:ARG:CD	1.92	0.99
1:B:346:GLU:OE1	1:B:988:PRO:HB3	1.63	0.99
1:B:892:TYR:CB	1:B:897:ILE:HD11	1.92	0.99
1:A:214:VAL:HG12	1:A:215:ALA:N	1.75	0.98
1:A:690:LEU:HD11	1:A:854:GLY:CA	1.92	0.98
1:C:427:PRO:HA	1:C:498:LYS:CE	1.94	0.98
1:B:692:HIS:O	1:B:693:GLU:HG3	1.63	0.98
1:A:139:VAL:CG1	1:A:327:TYR:HB3	1.94	0.98
1:A:472:ILE:HD12	1:A:472:ILE:H	1.28	0.98
1:C:317:PHE:HB2	1:C:318:PRO:HD2	1.43	0.98
1:C:950:LYS:HZ3	1:C:1030:ARG:HD3	1.20	0.98
1:B:291:ILE:HG21	1:B:306:ILE:CD1	1.93	0.97
1:B:792:ARG:HB2	1:B:798:MET:HE1	1.45	0.97
1:B:410:ILE:HG23	1:B:414:GLU:OE2	1.62	0.97
1:B:847:LEU:HD23	1:B:847:LEU:H	1.28	0.97
1:C:410:ILE:HG22	1:C:411:VAL:N	1.70	0.97
1:C:536:ARG:HH11	1:C:961:ILE:HD11	1.25	0.97
1:A:815:ARG:HH11	1:A:815:ARG:HG2	1.27	0.97
1:B:549:VAL:HG22	1:B:550:VAL:H	1.24	0.97
1:B:987:MET:HE3	1:B:987:MET:CA	1.94	0.97
1:A:729:ILE:HG22	1:A:730:ASP:N	1.77	0.97
1:C:4:PHE:HB3	1:C:8:ARG:HH22	1.30	0.97
1:B:574:THR:HG23	1:B:665:ALA:HB2	1.46	0.97
1:C:432:ARG:HG3	1:C:432:ARG:HH11	0.82	0.97
1:C:1:MET:HB2	1:C:2:PRO:HD2	1.44	0.96
1:A:45:ILE:HG22	1:A:45:ILE:O	1.62	0.96
1:B:49:TYR:CG	1:B:122:VAL:HA	1.98	0.96
1:B:904:VAL:HG13	1:B:907:LEU:HD12	1.32	0.96
1:C:415:ASN:ND2	1:C:434:SER:HB2	1.79	0.96
1:A:344:LEU:CD2	1:A:402:ILE:HD13	1.94	0.96
1:B:445:ILE:HG23	1:B:940:LYS:HG3	1.46	0.96
1:B:704:ALA:O	1:B:705:GLU:HG3	1.63	0.96
1:C:352:PHE:HA	1:C:369:THR:HG21	1.46	0.96
1:C:166:ILE:CB	1:C:166:ILE:HA	1.94	0.95
1:A:138:MET:HE3	1:A:306:ILE:HD13	1.45	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:94:PHE:HB2	1:B:98:THR:HG21	1.48	0.95
1:A:400:LEU:CD1	1:A:1003:VAL:HG13	1.95	0.95
1:A:578:LEU:CD2	1:A:587:THR:HG23	1.95	0.95
1:B:831:ALA:CB	1:B:840:ALA:HB2	1.97	0.95
1:C:115:MET:HE1	1:C:118:LEU:HD23	1.46	0.95
1:C:184:MET:HA	1:C:184:MET:HE3	1.45	0.95
1:A:578:LEU:HD23	1:A:587:THR:HG23	1.48	0.95
1:A:32:VAL:HG22	1:A:390:ILE:HB	1.49	0.95
1:A:263:ARG:HB3	1:A:263:ARG:HH21	1.29	0.95
1:A:968:VAL:HG21	1:A:1023:PRO:HB3	1.49	0.94
1:C:190:PRO:HG3	1:C:789:TRP:CZ2	2.03	0.94
1:B:613:ASN:HD22	1:B:614:GLY:N	1.65	0.94
1:A:926:TYR:CE1	1:A:999:ALA:HB2	2.02	0.94
1:C:578:LEU:HD22	1:C:661:ALA:CB	1.97	0.94
1:C:778:LYS:HD2	1:C:779:TYR:CE2	2.02	0.94
1:B:674:LEU:HD13	1:B:860:THR:HG21	1.50	0.94
1:B:804:PHE:HD1	1:B:804:PHE:O	1.50	0.94
1:C:163:LYS:O	1:C:166:ILE:N	1.98	0.94
1:A:919:ARG:HG3	1:A:920:GLY:N	1.73	0.94
1:B:713:LEU:HD12	1:B:713:LEU:H	1.32	0.94
1:A:447:MET:HB3	1:A:887:CYS:SG	2.08	0.94
1:A:405:LEU:HD22	1:A:406:VAL:N	1.83	0.93
1:B:921:LEU:CD2	1:B:1005:THR:HG22	1.99	0.93
1:B:418:ARG:HG3	1:B:970:MET:HE1	1.50	0.93
1:A:328:ASP:OD1	1:A:330:THR:HB	1.69	0.93
1:A:513:PHE:HD1	1:A:517:ASN:ND2	1.65	0.93
1:B:578:LEU:HD12	1:B:586:ARG:NH2	1.84	0.93
1:B:972:LEU:HD13	1:B:976:LEU:CD2	1.99	0.93
1:C:214:VAL:HG12	1:C:215:ALA:N	1.83	0.93
1:C:418:ARG:O	1:C:420:MET:N	2.00	0.93
1:B:517:ASN:O	1:B:521:GLU:HG3	1.68	0.93
1:B:743:ILE:HD12	1:B:743:ILE:H	1.34	0.93
1:B:537:SER:HB2	1:B:540:ARG:HG2	1.48	0.93
1:B:771:VAL:O	1:B:771:VAL:HG12	1.69	0.93
1:B:1022:VAL:HG23	1:B:1023:PRO:HD3	1.50	0.92
1:A:63:GLN:O	1:A:66:GLU:N	2.02	0.92
1:B:158:VAL:HA	1:B:162:MET:HG2	1.49	0.92
1:B:525:HIS:HA	1:B:528:THR:HG22	1.48	0.92
1:A:649:MET:HB3	1:A:653:ARG:NH2	1.85	0.92
1:B:219:LEU:HD12	1:B:234:ILE:HG12	1.51	0.92
1:C:513:PHE:HA	1:C:516:PHE:CB	1.97	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:632:LYS:O	1:A:637:ARG:HD3	1.68	0.92
1:C:190:PRO:CD	1:C:779:TYR:HD1	1.83	0.92
1:A:531:VAL:HA	1:A:534:ILE:CD1	2.00	0.92
1:C:951:ASP:C	1:C:953:MET:H	1.76	0.92
1:B:946:VAL:HG22	1:B:1026:PHE:CE1	2.05	0.91
1:C:277:ILE:HD11	1:C:620:ARG:NH2	1.83	0.91
1:B:713:LEU:CD1	1:B:843:LEU:HD13	2.00	0.91
1:C:58:GLN:CD	1:C:82:SER:OG	2.13	0.91
1:A:105:VAL:O	1:A:108:GLN:HB3	1.70	0.91
1:A:340:VAL:HG13	1:A:399:VAL:HG21	1.51	0.91
1:C:1017:LEU:O	1:C:1017:LEU:HD23	1.69	0.91
1:A:552:MET:HE1	1:A:906:PRO:HA	1.52	0.91
1:C:291:ILE:CD1	1:C:306:ILE:HD13	2.00	0.91
1:A:713:LEU:CB	1:A:832:ALA:HA	2.00	0.91
1:C:950:LYS:H	1:C:953:MET:HE2	1.36	0.91
1:B:200:PRO:HD2	1:B:749:THR:HG22	1.52	0.91
1:A:251:LEU:HD11	1:A:262:LEU:HA	1.52	0.91
1:A:355:MET:HA	1:A:977:MET:HE3	1.50	0.91
1:B:405:LEU:HD12	1:B:406:VAL:N	1.85	0.91
1:A:584:GLN:H	1:A:622:GLN:HB3	1.36	0.91
1:C:58:GLN:CD	1:C:82:SER:HG	1.78	0.91
1:C:143:ILE:CD1	1:C:286:ALA:HB2	2.00	0.91
1:C:167:SER:OG	1:C:168:ARG:N	2.04	0.91
1:C:291:ILE:HD13	1:C:306:ILE:CD1	2.01	0.91
1:C:643:LYS:HG2	1:C:645:GLU:H	1.36	0.91
1:C:980:LEU:O	1:C:980:LEU:HG	1.71	0.91
1:C:76:MET:HE3	1:C:93:THR:HG22	1.49	0.90
1:A:314:GLU:N	1:A:315:PRO:CD	2.34	0.90
1:A:166:ILE:HD13	1:A:166:ILE:N	1.84	0.90
1:A:590:VAL:O	1:A:594:VAL:HG23	1.71	0.90
1:C:702:LEU:HB2	1:C:851:LEU:HD21	1.52	0.90
1:C:847:LEU:HD22	1:C:847:LEU:H	1.36	0.90
1:A:987:MET:N	1:A:988:PRO:HD2	1.86	0.90
1:C:785:ASP:C	1:C:787:GLY:H	1.72	0.90
1:A:513:PHE:HD1	1:A:517:ASN:HD21	1.14	0.90
1:A:568:ASP:HB3	1:A:634:TRP:HZ3	1.34	0.90
1:C:953:MET:HE1	1:C:1030:ARG:HH22	1.37	0.90
1:A:223:PRO:HD3	1:B:275:TYR:CD2	2.07	0.90
1:C:423:GLU:HB3	1:C:426:PRO:CG	2.02	0.90
1:A:60:THR:HG21	1:A:119:PRO:HG3	1.52	0.90
1:B:280:GLU:HB2	1:B:284:GLN:O	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:719:ASN:HD22	1:A:719:ASN:C	1.75	0.89
1:A:1018:ALA:O	1:A:1022:VAL:HG13	1.72	0.89
1:A:971:ARG:C	1:A:974:PRO:HD2	1.97	0.89
1:B:356:TYR:C	1:B:358:PHE:H	1.81	0.89
1:C:144:ASN:ND2	1:C:149:MET:H	1.70	0.89
1:C:922:THR:HG22	1:C:923:ASN:N	1.88	0.89
1:B:1:MET:CB	1:B:2:PRO:HD2	1.99	0.89
1:B:517:ASN:HB3	1:B:521:GLU:OE1	1.71	0.89
1:A:372:VAL:HG22	1:A:405:LEU:HD21	1.54	0.89
1:A:989:LEU:HG	1:A:993:THR:HG23	1.55	0.89
1:A:406:VAL:HG12	1:A:407:ASP:N	1.83	0.89
1:A:515:TRP:HA	1:A:519:MET:SD	2.13	0.89
1:B:68:ASN:O	1:B:70:ASN:ND2	2.05	0.89
1:A:813:SER:HB3	1:A:816:LEU:HD21	1.53	0.89
1:A:781:MET:HE3	1:C:228:GLN:OE1	1.73	0.88
1:B:674:LEU:HD13	1:B:860:THR:CG2	2.02	0.88
1:C:1:MET:CE	1:C:439:GLN:HE22	1.84	0.88
1:C:115:MET:HE2	1:C:118:LEU:CD2	1.96	0.88
1:A:418:ARG:HD3	1:A:970:MET:HG3	1.55	0.88
1:A:454:VAL:O	1:A:456:MET:O	1.90	0.88
1:A:713:LEU:O	1:A:714:THR:CG2	2.21	0.88
1:C:417:GLU:HA	1:C:417:GLU:OE2	1.73	0.88
1:A:139:VAL:HG13	1:A:327:TYR:HB3	1.56	0.88
1:A:909:VAL:HG12	1:A:913:LEU:CD2	2.03	0.88
1:A:750:LEU:HD11	1:C:216:ALA:HB2	1.53	0.88
1:A:1018:ALA:HB1	1:A:1022:VAL:CG1	2.03	0.88
1:C:344:LEU:HD22	1:C:402:ILE:HD11	1.53	0.88
1:C:463:THR:O	1:C:465:ALA:N	2.07	0.88
1:B:1:MET:HB2	1:B:2:PRO:CD	2.02	0.88
1:B:892:TYR:HB2	1:B:897:ILE:HD11	1.56	0.88
1:B:104:GLN:CG	1:B:105:VAL:N	2.37	0.88
1:B:115:MET:HA	1:B:115:MET:CE	2.03	0.88
1:C:588:GLN:HG2	1:C:613:ASN:HD22	1.38	0.88
1:C:911:GLY:CA	1:C:1013:THR:HG21	2.04	0.88
1:C:60:THR:HG22	1:C:61:VAL:HG23	1.55	0.87
1:B:235:ILE:H	1:B:235:ILE:HD13	1.39	0.87
1:B:160:ALA:HB1	1:B:767:ARG:HD3	1.54	0.87
1:C:713:LEU:HD11	1:C:834:GLY:HA3	1.56	0.87
1:A:531:VAL:CA	1:A:534:ILE:HD11	2.03	0.87
1:B:360:GLN:O	1:B:361:ASN:HB2	1.74	0.87
1:B:876:LEU:HD13	1:B:932:LEU:HD11	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:699:ARG:HG2	1:C:699:ARG:NH1	1.89	0.87
1:A:780:ARG:HG2	1:A:780:ARG:HH11	1.38	0.86
1:B:420:MET:HE1	1:B:425:LEU:HD23	1.57	0.86
1:B:573:MET:HE3	1:B:626:ILE:HD12	1.57	0.86
1:A:571:VAL:HG12	1:A:630:SER:HA	1.56	0.86
1:B:291:ILE:CG2	1:B:306:ILE:HD11	2.05	0.86
1:A:255:GLN:H	1:A:255:GLN:CD	1.81	0.86
1:A:528:THR:HG21	1:A:969:ARG:HE	1.41	0.86
1:A:819:TYR:H	1:A:824:SER:HB3	1.38	0.86
1:B:549:VAL:HG22	1:B:550:VAL:N	1.89	0.86
1:C:188:MET:HE1	1:C:200:PRO:HB3	1.58	0.86
1:B:70:ASN:H	1:B:70:ASN:HD22	1.24	0.86
1:B:418:ARG:NE	1:B:970:MET:SD	2.48	0.86
1:B:280:GLU:CB	1:B:284:GLN:O	2.24	0.86
1:A:228:GLN:HG2	1:B:781:MET:HG2	1.57	0.86
1:B:1005:THR:HG22	1:B:1005:THR:O	1.74	0.86
1:B:778:LYS:HZ2	1:B:778:LYS:H	1.22	0.86
1:B:945:ILE:CD1	1:B:1026:PHE:HE2	1.88	0.86
1:A:9:PRO:HB3	1:A:491:ALA:HB1	1.57	0.85
1:B:404:LEU:HD13	1:B:449:LEU:HD13	1.56	0.85
1:B:714:THR:HG21	1:B:833:PRO:HD2	1.57	0.85
1:C:190:PRO:HG3	1:C:789:TRP:CH2	2.10	0.85
1:A:782:LEU:O	1:A:784:ASP:O	1.93	0.85
1:C:190:PRO:CD	1:C:779:TYR:CD1	2.58	0.85
1:C:463:THR:HA	1:C:466:ILE:HD13	1.55	0.85
1:C:713:LEU:HD11	1:C:835:LYS:H	1.41	0.85
1:C:1022:VAL:HA	1:C:1025:PHE:CD2	2.10	0.85
1:A:190:PRO:HG3	1:A:789:TRP:CE2	2.12	0.85
1:C:222:THR:HB	1:C:223:PRO:HD3	1.57	0.85
1:B:644:VAL:HG23	1:B:645:GLU:N	1.92	0.85
1:C:141:GLY:HA3	1:C:324:VAL:HG22	1.57	0.85
1:B:136:PHE:HE1	1:B:617:PHE:CZ	1.95	0.85
1:C:358:PHE:HB3	1:C:977:MET:HE2	1.58	0.85
1:A:90:ILE:HG22	1:A:90:ILE:O	1.72	0.85
1:A:729:ILE:CG2	1:A:730:ASP:H	1.87	0.85
1:B:115:MET:HA	1:B:115:MET:HE3	1.58	0.85
1:B:542:LEU:HD11	1:B:1028:VAL:CG1	2.07	0.85
1:B:966:ASP:O	1:B:970:MET:HB2	1.77	0.85
1:A:298:ASN:ND2	1:A:300:LEU:H	1.74	0.84
1:B:707:ALA:O	1:B:708:LYS:HB3	1.76	0.84
1:C:872:GLN:HB2	1:C:875:SER:HB3	1.56	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:428:LYS:HG3	1:A:429:GLU:H	1.42	0.84
1:B:561:SER:HB2	1:B:838:GLY:HA3	1.57	0.84
1:C:393:LEU:HD13	1:C:466:ILE:HG23	1.58	0.84
1:B:545:TYR:OH	1:B:906:PRO:HG3	1.78	0.84
1:B:228:GLN:NE2	1:C:781:MET:HE3	1.91	0.84
1:C:92:LEU:N	1:C:92:LEU:HD12	1.91	0.84
1:C:592:ASN:O	1:C:593:GLU:HB3	1.76	0.84
1:C:713:LEU:HD11	1:C:835:LYS:N	1.92	0.84
1:A:950:LYS:HA	1:A:953:MET:HB3	1.57	0.84
1:C:540:ARG:HE	1:C:541:TYR:HE1	1.25	0.84
1:B:372:VAL:HG22	1:B:373:PRO:HD3	1.59	0.84
1:B:525:HIS:HA	1:B:528:THR:CG2	2.08	0.84
1:C:950:LYS:NZ	1:C:1030:ARG:CD	2.39	0.84
1:A:214:VAL:CG1	1:A:215:ALA:H	1.90	0.84
1:A:418:ARG:CG	1:A:970:MET:HE3	2.07	0.84
1:C:847:LEU:O	1:C:850:LYS:HG2	1.77	0.84
1:A:493:CYS:O	1:A:497:LEU:HB2	1.78	0.84
1:B:416:VAL:HG21	1:B:431:THR:HA	1.59	0.83
1:A:1024:VAL:HG12	1:A:1028:VAL:HG23	1.58	0.83
1:B:185:ARG:HH11	1:B:185:ARG:HG3	1.41	0.83
1:B:697:GLN:O	1:B:699:ARG:O	1.95	0.83
1:B:729:ILE:HG13	1:B:730:ASP:N	1.90	0.83
1:B:763:ILE:HD11	1:C:59:ASP:HB3	1.60	0.83
1:C:578:LEU:HB3	1:C:579:PRO:HD2	1.59	0.83
1:A:472:ILE:HD12	1:A:472:ILE:N	1.92	0.83
1:A:688:ALA:O	1:A:689:GLY:C	2.18	0.83
1:B:904:VAL:HG13	1:B:907:LEU:HD11	1.58	0.83
1:C:713:LEU:CD1	1:C:834:GLY:HA3	2.09	0.83
1:A:44:THR:CG2	1:A:89:GLN:HG3	2.09	0.83
1:A:951:ASP:O	1:A:955:LYS:HB2	1.78	0.83
1:B:900:SER:HA	1:B:903:LEU:HD12	1.59	0.83
1:B:804:PHE:O	1:B:804:PHE:CD1	2.31	0.83
1:C:644:VAL:CG1	1:C:667:ASN:HB2	2.08	0.83
1:A:210:GLN:HG3	1:A:249:ILE:CG2	2.07	0.83
1:A:243:THR:HG22	1:A:268:ILE:HG22	1.58	0.83
1:B:528:THR:O	1:B:531:VAL:HG12	1.78	0.83
1:C:951:ASP:O	1:C:953:MET:N	2.12	0.83
1:B:584:GLN:HB2	1:B:622:GLN:HE21	1.44	0.83
1:B:946:VAL:CG2	1:B:1026:PHE:CZ	2.57	0.83
1:C:44:THR:HG22	1:C:91:THR:HB	1.60	0.83
1:B:659:LYS:HA	1:B:659:LYS:NZ	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:713:LEU:HD13	1:B:843:LEU:HD13	1.59	0.83
1:C:919:ARG:HB3	1:C:921:LEU:HD23	1.61	0.83
1:B:356:TYR:O	1:B:358:PHE:N	2.12	0.83
1:A:513:PHE:CD1	1:A:517:ASN:ND2	2.47	0.82
1:A:836:SER:OG	1:A:839:GLU:HG2	1.78	0.82
1:A:205:THR:HG22	1:A:205:THR:O	1.76	0.82
1:B:81:ASN:O	1:B:81:ASN:ND2	2.11	0.82
1:B:184:MET:HG3	1:B:184:MET:O	1.77	0.82
1:B:219:LEU:CD2	1:C:783:PRO:HG3	2.10	0.82
1:A:90:ILE:CD1	1:A:90:ILE:CB	2.57	0.82
1:A:1011:MET:HA	1:A:1011:MET:HE3	1.61	0.82
1:C:26:ALA:O	1:C:30:LEU:HG	1.79	0.82
1:C:713:LEU:HB2	1:C:832:ALA:HB3	1.62	0.82
1:A:376:LEU:O	1:A:377:LEU:C	2.17	0.82
1:B:261:LEU:HD13	1:B:261:LEU:H	1.43	0.82
1:C:915:ALA:HA	1:C:918:PHE:HB3	1.61	0.82
1:A:451:ALA:O	1:A:452:VAL:CG2	2.27	0.82
1:B:361:ASN:O	1:B:365:THR:HB	1.80	0.82
1:B:790:TYR:HE1	1:B:800:PRO:HB3	1.45	0.82
1:C:214:VAL:HG12	1:C:215:ALA:H	1.43	0.82
1:C:457:ALA:HB1	1:C:468:ARG:HA	1.60	0.82
1:B:408:ASP:O	1:B:410:ILE:N	2.13	0.82
1:A:740:GLY:O	1:A:793:ALA:HB1	1.79	0.82
1:C:418:ARG:C	1:C:420:MET:H	1.84	0.82
1:A:154:ILE:O	1:A:158:VAL:HG23	1.80	0.82
1:B:894:SER:CB	1:B:897:ILE:HG12	2.08	0.82
1:C:578:LEU:HD22	1:C:661:ALA:HB2	1.62	0.82
1:A:896:SER:O	1:A:899:PHE:HB2	1.79	0.81
1:A:983:ILE:C	1:A:983:ILE:HD12	2.05	0.81
1:B:851:LEU:N	1:B:852:PRO:CD	2.43	0.81
1:B:904:VAL:HG12	1:B:907:LEU:HD12	1.62	0.81
1:A:69:MET:C	1:A:70:ASN:HD22	1.87	0.81
1:A:90:ILE:CD1	1:A:90:ILE:HG21	2.10	0.81
1:B:129:VAL:O	1:B:129:VAL:HG12	1.80	0.81
1:B:157:TYR:HA	1:B:161:ASN:ND2	1.94	0.81
1:B:555:LEU:HD22	1:B:555:LEU:H	1.45	0.81
1:B:568:ASP:OD1	1:B:644:VAL:HG22	1.81	0.81
1:C:167:SER:H	1:C:175:VAL:HG21	1.44	0.81
1:A:418:ARG:HH12	1:A:973:ARG:HB3	1.45	0.81
1:A:425:LEU:HD12	1:A:425:LEU:H	1.45	0.81
1:A:649:MET:CB	1:A:653:ARG:HH21	1.93	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:767:ARG:HD3	1:B:769:LYS:HE2	1.62	0.81
1:C:190:PRO:HD2	1:C:779:TYR:CD1	2.15	0.81
1:C:252:LYS:O	1:C:260:VAL:HG12	1.80	0.81
1:C:592:ASN:O	1:C:593:GLU:CB	2.28	0.81
1:A:495:THR:O	1:A:496:MET:HB2	1.79	0.81
1:A:843:LEU:O	1:A:846:GLN:N	2.13	0.81
1:C:131:LYS:O	1:C:295:THR:HG22	1.79	0.81
1:C:244:GLU:HA	1:C:263:ARG:HH22	1.46	0.81
1:C:361:ASN:HB2	1:C:364:ALA:HB3	1.62	0.81
1:A:568:ASP:OD2	1:A:637:ARG:NH1	2.13	0.81
1:B:150:THR:H	1:B:153:ASP:HB3	1.44	0.81
1:C:685:ILE:HG12	1:C:687:GLN:OE1	1.80	0.81
1:A:543:VAL:O	1:A:544:LEU:HB3	1.80	0.81
1:B:792:ARG:CB	1:B:798:MET:HE1	2.10	0.81
1:C:790:TYR:CD1	1:C:800:PRO:HB3	2.15	0.81
1:A:419:VAL:O	1:A:424:GLY:HA3	1.81	0.81
1:A:585:GLU:OE2	1:C:227:GLY:HA2	1.81	0.81
1:C:953:MET:CE	1:C:1030:ARG:HH22	1.93	0.81
1:B:407:ASP:C	1:B:408:ASP:O	2.21	0.80
1:C:54:ALA:HB2	1:C:84:SER:HB2	1.63	0.80
1:A:456:MET:O	1:A:457:ALA:HB3	1.79	0.80
1:B:775:SER:HB3	1:B:780:ARG:HG3	1.61	0.80
1:C:644:VAL:HG11	1:C:667:ASN:HB2	1.63	0.80
1:C:728:LYS:HG3	1:C:729:ILE:N	1.95	0.80
1:B:739:LEU:O	1:B:793:ALA:HB1	1.81	0.80
1:C:531:VAL:O	1:C:533:GLY:N	2.15	0.80
1:C:552:MET:HE1	1:C:909:VAL:HG21	1.63	0.80
1:C:682:PHE:CE2	1:C:702:LEU:HD11	2.16	0.80
1:C:897:ILE:HG12	1:C:950:LYS:HZ2	1.45	0.80
1:B:178:PHE:HA	1:B:277:ILE:HG21	1.63	0.80
1:B:930:GLY:O	1:B:934:THR:HG23	1.80	0.80
1:C:45:ILE:CA	1:C:45:ILE:CG2	2.57	0.80
1:C:927:PHE:O	1:C:931:LEU:HB2	1.82	0.80
1:A:60:THR:HG23	1:A:119:PRO:HG3	1.62	0.80
1:B:223:PRO:O	1:B:223:PRO:HG2	1.82	0.80
1:B:642:ASN:H	1:B:650:ARG:HH12	1.29	0.80
1:B:880:SER:O	1:B:884:VAL:HG23	1.81	0.80
1:C:536:ARG:NH1	1:C:961:ILE:HD11	1.95	0.80
1:A:986:VAL:C	1:A:988:PRO:HD2	2.05	0.80
1:B:773:VAL:HG13	1:B:773:VAL:O	1.78	0.80
1:C:420:MET:SD	1:C:498:LYS:CE	2.70	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:443:VAL:HG12	1:A:444:GLY:N	1.93	0.80
1:A:534:ILE:HB	1:A:540:ARG:NH1	1.96	0.80
1:A:991:ILE:HD13	1:A:1008:MET:HG3	1.61	0.80
1:A:909:VAL:HG12	1:A:913:LEU:HD21	1.61	0.80
1:A:1023:PRO:O	1:A:1027:VAL:HG23	1.82	0.80
1:C:530:SER:O	1:C:534:ILE:HG23	1.81	0.80
1:B:42:ALA:CB	1:B:93:THR:HG22	2.10	0.80
1:C:114:ALA:O	1:C:115:MET:C	2.22	0.80
1:C:713:LEU:H	1:C:713:LEU:HD13	1.47	0.80
1:A:10:ILE:HD11	1:B:895:TRP:HB2	1.64	0.79
1:C:721:LEU:CD1	1:C:815:ARG:O	2.30	0.79
1:C:721:LEU:HD12	1:C:815:ARG:O	1.82	0.79
1:C:31:PRO:O	1:C:389:SER:HB2	1.82	0.79
1:C:144:ASN:HD21	1:C:149:MET:H	1.30	0.79
1:C:925:VAL:O	1:C:927:PHE:N	2.15	0.79
1:A:389:SER:O	1:A:394:THR:HG21	1.81	0.79
1:A:901:VAL:O	1:A:904:VAL:HG23	1.81	0.79
1:C:45:ILE:CB	1:C:45:ILE:C	2.55	0.79
1:C:901:VAL:HG11	1:C:943:ILE:HD13	1.64	0.79
1:A:713:LEU:HB3	1:A:832:ALA:CA	2.10	0.79
1:B:407:ASP:O	1:B:408:ASP:O	2.01	0.79
1:C:694:LYS:O	1:C:697:GLN:HB2	1.81	0.79
1:B:560:PRO:HB2	1:B:836:SER:HB3	1.63	0.79
1:B:1022:VAL:HG23	1:B:1023:PRO:CD	2.13	0.79
1:C:44:THR:O	1:C:45:ILE:C	2.21	0.79
1:C:420:MET:SD	1:C:498:LYS:CD	2.70	0.79
1:C:682:PHE:HE2	1:C:702:LEU:HD11	1.44	0.79
1:C:844:MET:HA	1:C:847:LEU:HD21	1.62	0.79
1:A:919:ARG:CG	1:A:920:GLY:N	2.33	0.79
1:B:973:ARG:CG	1:B:974:PRO:HD3	2.12	0.79
1:A:731:ILE:HD12	1:A:731:ILE:N	1.96	0.79
1:C:1016:VAL:O	1:C:1019:ILE:HG22	1.82	0.79
1:A:961:ILE:O	1:A:965:LEU:HD23	1.83	0.79
1:A:340:VAL:HG13	1:A:399:VAL:CG2	2.13	0.79
1:B:6:ILE:CD1	1:B:490:PRO:HB2	2.11	0.79
1:B:278:ILE:HD11	1:B:584:GLN:NE2	1.97	0.79
1:B:699:ARG:HG2	1:B:700:ASN:N	1.99	0.78
1:A:61:VAL:O	1:A:65:ILE:HG23	1.82	0.78
1:A:90:ILE:CD1	1:A:90:ILE:CG2	2.60	0.78
1:A:324:VAL:HG12	1:A:325:TYR:H	1.46	0.78
1:A:719:ASN:C	1:A:719:ASN:ND2	2.36	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:190:PRO:O	1:C:191:ASN:C	2.26	0.78
1:C:910:ILE:HG23	1:C:911:GLY:N	1.97	0.78
1:A:596:HIS:C	1:A:598:TYR:H	1.91	0.78
1:B:644:VAL:O	1:B:648:THR:OG1	2.00	0.78
1:B:973:ARG:HG2	1:B:974:PRO:CD	2.12	0.78
1:C:497:LEU:CD1	1:C:498:LYS:H	1.95	0.78
1:C:519:MET:O	1:C:523:SER:OG	2.01	0.78
1:C:785:ASP:C	1:C:787:GLY:N	2.37	0.78
1:A:298:ASN:C	1:A:298:ASN:ND2	2.38	0.78
1:A:987:MET:N	1:A:988:PRO:CD	2.46	0.78
1:A:536:ARG:HG2	1:A:537:SER:N	1.90	0.78
1:B:419:VAL:O	1:B:426:PRO:HG3	1.83	0.78
1:B:573:MET:CE	1:B:626:ILE:HD12	2.14	0.78
1:C:939:ALA:O	1:C:943:ILE:HG12	1.83	0.78
1:C:962:GLU:O	1:C:965:LEU:HB3	1.83	0.78
1:A:168:ARG:O	1:A:168:ARG:HG3	1.82	0.78
1:C:60:THR:CG2	1:C:61:VAL:HG23	2.14	0.78
1:C:696:THR:HA	1:C:825:MET:HE1	1.65	0.78
1:A:124:GLN:HG2	1:A:758:TYR:CE2	2.19	0.78
1:A:355:MET:CE	1:A:410:ILE:HG12	2.13	0.78
1:A:395:MET:HE2	1:A:395:MET:HA	1.66	0.78
1:B:850:LYS:C	1:B:852:PRO:HD3	2.07	0.78
1:B:946:VAL:CG2	1:B:1026:PHE:CE1	2.65	0.78
1:C:115:MET:HE2	1:C:115:MET:HA	1.65	0.78
1:C:188:MET:HA	1:C:266:ALA:HB1	1.66	0.78
1:C:164:ASP:O	1:C:167:SER:OG	2.02	0.78
1:C:887:CYS:O	1:C:890:ALA:HB3	1.84	0.78
1:A:105:VAL:O	1:A:109:ASN:N	2.13	0.78
1:A:583:THR:HG22	1:A:585:GLU:H	1.47	0.78
1:B:714:THR:HG23	1:B:830:GLN:NE2	1.99	0.78
1:C:983:ILE:HG23	1:C:1008:MET:HG3	1.65	0.78
1:A:781:MET:HE3	1:C:228:GLN:CD	2.08	0.77
1:A:911:GLY:HA3	1:A:1013:THR:CG2	2.14	0.77
1:B:49:TYR:CE1	1:B:122:VAL:CG1	2.62	0.77
1:B:970:MET:HA	1:B:970:MET:HE2	1.64	0.77
1:C:442:LEU:O	1:C:445:ILE:HG13	1.83	0.77
1:A:277:ILE:HG23	1:A:277:ILE:O	1.82	0.77
1:A:815:ARG:HG2	1:A:815:ARG:NH1	1.99	0.77
1:B:213:GLN:HE21	1:B:239:ARG:HD2	1.48	0.77
1:B:601:LYS:O	1:B:603:LYS:N	2.17	0.77
1:B:760:ASN:HD22	1:B:761:ASP:H	1.31	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:843:LEU:CD2	1:B:847:LEU:HD21	2.12	0.77
1:C:888:LEU:HB3	1:C:898:PRO:HB3	1.64	0.77
1:A:30:LEU:CD2	1:A:384:ALA:HB2	2.14	0.77
1:A:596:HIS:O	1:A:598:TYR:N	2.17	0.77
1:A:638:PRO:HG2	1:A:639:GLY:H	1.49	0.77
1:B:705:GLU:O	1:B:707:ALA:N	2.17	0.77
1:B:712:MET:CB	1:B:713:LEU:HD12	2.10	0.77
1:C:729:ILE:HD11	1:C:786:ILE:CD1	2.14	0.77
1:A:124:GLN:HG2	1:A:758:TYR:HE2	1.49	0.77
1:A:801:PHE:HD2	1:A:805:SER:OG	1.67	0.77
1:A:979:SER:HG	1:A:1015:THR:HG21	1.44	0.77
1:B:974:PRO:O	1:B:978:THR:HB	1.84	0.77
1:C:459:PHE:H	1:C:459:PHE:HD2	1.30	0.77
1:A:60:THR:HG22	1:A:61:VAL:HG23	1.64	0.77
1:A:263:ARG:HB3	1:A:263:ARG:NH2	1.98	0.77
1:C:686:ASP:CG	1:C:690:LEU:HB2	2.09	0.77
1:B:346:GLU:OE1	1:B:988:PRO:CB	2.32	0.77
1:B:987:MET:O	1:B:990:VAL:HB	1.83	0.77
1:A:634:TRP:CE3	1:A:995:ALA:HB1	2.20	0.77
1:B:213:GLN:HG3	1:C:56:THR:HG23	1.67	0.77
1:B:261:LEU:HD13	1:B:261:LEU:N	1.98	0.77
1:C:44:THR:HG22	1:C:91:THR:CB	2.15	0.77
1:C:213:GLN:NE2	1:C:238:THR:HA	2.00	0.77
1:C:393:LEU:CD1	1:C:466:ILE:HG23	2.15	0.77
1:C:560:PRO:O	1:C:922:THR:HG23	1.84	0.77
1:B:792:ARG:HA	1:B:798:MET:HE2	1.66	0.77
1:B:833:PRO:HG2	1:B:834:GLY:H	1.50	0.77
1:C:346:GLU:OE1	1:C:988:PRO:HG3	1.84	0.77
1:A:1009:GLY:O	1:A:1011:MET:N	2.17	0.76
1:A:888:LEU:HD11	1:A:943:ILE:HG12	1.67	0.76
1:B:468:ARG:O	1:B:469:GLN:C	2.25	0.76
1:B:520:PHE:HA	1:B:523:SER:OG	1.85	0.76
1:B:572:PHE:HB2	1:B:666:PHE:O	1.85	0.76
1:B:713:LEU:H	1:B:713:LEU:CD1	1.99	0.76
1:B:919:ARG:HG3	1:B:1005:THR:CG2	2.14	0.76
1:B:416:VAL:CG2	1:B:431:THR:HA	2.15	0.76
1:C:728:LYS:HG3	1:C:729:ILE:H	1.50	0.76
1:A:64:VAL:O	1:A:65:ILE:C	2.28	0.76
1:B:709:HIS:N	1:B:710:PRO:HD3	1.99	0.76
1:B:431:THR:CG2	1:B:493:CYS:CB	2.64	0.76
1:B:701:GLN:HA	1:B:704:ALA:HB3	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:894:SER:HB3	1:B:897:ILE:CG1	2.15	0.76
1:B:944:LEU:O	1:B:971:ARG:HD2	1.84	0.76
1:C:692:HIS:HE1	1:C:721:LEU:HD21	1.50	0.76
1:C:911:GLY:HA3	1:C:1013:THR:CG2	2.13	0.76
1:A:274:ASN:ND2	1:A:276:ASP:H	1.83	0.76
1:A:400:LEU:HD13	1:A:1003:VAL:CG1	2.14	0.76
1:A:926:TYR:CE1	1:A:999:ALA:CB	2.69	0.76
1:B:626:ILE:HD11	1:B:628:PHE:CZ	2.20	0.76
1:B:714:THR:HG23	1:B:830:GLN:HE22	1.50	0.76
1:B:517:ASN:C	1:B:521:GLU:HG3	2.11	0.76
1:C:684:LEU:HG	1:C:684:LEU:O	1.85	0.76
1:B:835:LYS:HD2	1:B:839:GLU:OE1	1.86	0.76
1:B:945:ILE:HD11	1:B:1026:PHE:CE2	2.20	0.76
1:A:400:LEU:HG	1:A:929:VAL:HG12	1.67	0.76
1:B:941:ASN:ND2	1:B:1015:THR:HA	2.00	0.76
1:C:463:THR:CG2	1:C:464:GLY:N	2.42	0.76
1:C:497:LEU:HD13	1:C:498:LYS:H	1.50	0.76
1:C:997:SER:O	1:C:998:GLY:C	2.27	0.76
1:B:708:LYS:HG2	1:B:708:LYS:O	1.85	0.76
1:C:7:ASP:O	1:C:9:PRO:HD3	1.87	0.76
1:C:584:GLN:HB2	1:C:622:GLN:HE21	1.51	0.76
1:C:1024:VAL:O	1:C:1028:VAL:HG23	1.86	0.76
1:A:314:GLU:N	1:A:315:PRO:HD3	2.01	0.75
1:A:466:ILE:O	1:A:469:GLN:HB2	1.86	0.75
1:A:801:PHE:CD2	1:A:805:SER:OG	2.39	0.75
1:B:775:SER:HB3	1:B:780:ARG:CD	2.16	0.75
1:C:542:LEU:HD23	1:C:542:LEU:O	1.85	0.75
1:B:172:VAL:O	1:B:172:VAL:HG12	1.84	0.75
1:C:847:LEU:HD22	1:C:847:LEU:N	2.01	0.75
1:A:543:VAL:O	1:A:544:LEU:CB	2.35	0.75
1:B:3:ASN:H	1:B:6:ILE:HG12	1.50	0.75
1:C:162:MET:HG2	1:C:313:MET:HE2	1.67	0.75
1:C:457:ALA:CB	1:C:468:ARG:HA	2.15	0.75
1:A:227:GLY:HA2	1:B:585:GLU:OE1	1.86	0.75
1:A:443:VAL:O	1:A:445:ILE:N	2.19	0.75
1:B:973:ARG:CG	1:B:974:PRO:CD	2.64	0.75
1:B:1031:ARG:N	1:B:1034:SER:OG	2.20	0.75
1:C:792:ARG:HB2	1:C:798:MET:HE1	1.68	0.75
1:A:54:ALA:O	1:A:58:GLN:N	2.20	0.75
1:A:106:GLN:O	1:A:110:LYS:HB2	1.86	0.75
1:B:187:TRP:CZ3	1:B:774:MET:HE3	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:852:PRO:HA	1:B:855:VAL:HB	1.69	0.75
1:C:415:ASN:HD21	1:C:434:SER:HB2	1.51	0.75
1:A:117:LEU:HD11	1:C:124:GLN:O	1.85	0.75
1:A:90:ILE:HG21	1:A:90:ILE:HD13	1.67	0.75
1:B:137:LEU:HD11	1:B:299:ALA:HB1	1.68	0.75
1:B:190:PRO:HG2	1:B:779:TYR:CG	2.21	0.75
1:B:350:LEU:HB3	1:B:984:LEU:HD12	1.67	0.75
1:B:485:ALA:HA	1:B:489:THR:HB	1.67	0.75
1:B:659:LYS:HD3	1:B:660:ASP:N	2.01	0.75
1:C:410:ILE:CG2	1:C:411:VAL:H	1.91	0.75
1:C:979:SER:O	1:C:983:ILE:HG13	1.86	0.75
1:A:69:MET:HA	1:A:69:MET:HE2	1.69	0.75
1:A:552:MET:HE1	1:A:906:PRO:CA	2.16	0.75
1:B:411:VAL:O	1:B:438:ILE:HG12	1.86	0.75
1:B:940:LYS:O	1:B:941:ASN:C	2.30	0.75
1:A:649:MET:HE3	1:A:653:ARG:NH2	2.02	0.75
1:B:674:LEU:CD1	1:B:860:THR:HG21	2.17	0.75
1:C:66:GLU:HG2	1:C:78:MET:HE2	1.68	0.75
1:C:758:TYR:CD2	1:C:770:LYS:HE2	2.22	0.75
1:A:425:LEU:HD12	1:A:425:LEU:N	2.02	0.74
1:A:713:LEU:HG	1:A:833:PRO:HD3	1.68	0.74
1:A:935:ILE:HG22	1:A:935:ILE:O	1.86	0.74
1:A:1024:VAL:HG12	1:A:1028:VAL:CG2	2.17	0.74
1:B:531:VAL:HG13	1:B:965:LEU:HD21	1.69	0.74
1:B:602:GLU:OE2	1:B:650:ARG:HD2	1.86	0.74
1:C:727:PHE:CZ	1:C:783:PRO:HB3	2.22	0.74
1:C:951:ASP:C	1:C:953:MET:N	2.44	0.74
1:A:43:VAL:HG12	1:A:43:VAL:O	1.85	0.74
1:A:65:ILE:O	1:A:68:ASN:HB2	1.87	0.74
1:B:225:VAL:HG22	1:C:781:MET:HE3	1.68	0.74
1:A:795:ASP:OD1	1:A:797:GLN:HG2	1.87	0.74
1:B:262:LEU:HD22	1:B:266:ALA:HB3	1.68	0.74
1:B:356:TYR:C	1:B:358:PHE:N	2.43	0.74
1:B:439:GLN:HA	1:B:442:LEU:HD12	1.69	0.74
1:B:740:GLY:O	1:B:794:ALA:N	2.20	0.74
1:B:988:PRO:O	1:B:989:LEU:HB3	1.85	0.74
1:C:673:GLU:O	1:C:674:LEU:HB3	1.86	0.74
1:A:539:GLY:HA2	1:A:542:LEU:HB2	1.69	0.74
1:A:559:LEU:HD12	1:A:560:PRO:HD2	1.67	0.74
1:A:719:ASN:HB2	1:A:828:LEU:HD23	1.69	0.74
1:B:11:PHE:O	1:B:14:VAL:HB	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:431:THR:CG2	1:B:493:CYS:HB2	2.16	0.74
1:A:949:ALA:HB1	1:A:1026:PHE:CE2	2.23	0.74
1:C:345:VAL:O	1:C:348:ILE:HG12	1.86	0.74
1:C:431:THR:O	1:C:435:MET:HG2	1.86	0.74
1:C:713:LEU:CG	1:C:832:ALA:O	2.34	0.74
1:B:704:ALA:O	1:B:705:GLU:CG	2.35	0.74
1:C:758:TYR:H	1:C:758:TYR:HD1	1.33	0.74
1:C:910:ILE:CG2	1:C:911:GLY:N	2.50	0.74
1:B:699:ARG:O	1:B:700:ASN:HB2	1.85	0.74
1:B:986:VAL:O	1:B:990:VAL:CG2	2.36	0.74
1:C:43:VAL:HA	1:C:130:GLU:O	1.88	0.74
1:C:247:GLY:HA3	1:C:263:ARG:NE	2.01	0.74
1:C:785:ASP:O	1:C:787:GLY:N	2.20	0.74
1:B:24:GLY:HA2	1:B:27:ILE:HG23	1.70	0.74
1:C:420:MET:SD	1:C:498:LYS:HD3	2.28	0.74
1:A:115:MET:O	1:A:117:LEU:N	2.21	0.74
1:B:109:ASN:HD22	1:B:112:GLN:NE2	1.86	0.74
1:B:1021:PHE:HB3	1:B:1025:PHE:HE1	1.52	0.74
1:C:176:GLN:NE2	1:C:620:ARG:HH11	1.85	0.74
1:C:925:VAL:C	1:C:927:PHE:H	1.94	0.74
1:C:159:ALA:HB3	1:C:181:GLN:HG3	1.70	0.74
1:C:444:GLY:O	1:C:448:VAL:HG23	1.88	0.74
1:C:946:VAL:O	1:C:946:VAL:HG12	1.87	0.74
1:A:113:LEU:HD21	1:C:128:SER:HA	1.68	0.73
1:A:186:ILE:HB	1:A:773:VAL:HG23	1.69	0.73
1:A:518:ARG:HB3	1:A:518:ARG:CZ	2.16	0.73
1:B:847:LEU:HD23	1:B:847:LEU:N	2.01	0.73
1:C:657:GLN:O	1:C:659:LYS:N	2.21	0.73
1:B:644:VAL:CG2	1:B:645:GLU:H	2.00	0.73
1:C:16:ALA:O	1:C:20:MET:HG3	1.87	0.73
1:C:143:ILE:HG23	1:C:284:GLN:NE2	2.03	0.73
1:C:418:ARG:HD2	1:C:970:MET:HE3	1.69	0.73
1:A:189:ASN:HD21	1:A:192:GLU:HB2	1.54	0.73
1:B:26:ALA:O	1:B:30:LEU:HB2	1.87	0.73
1:B:905:VAL:HG23	1:B:935:ILE:HG12	1.68	0.73
1:C:743:ILE:H	1:C:743:ILE:HD12	1.53	0.73
1:A:56:THR:HG22	1:A:56:THR:O	1.88	0.73
1:A:225:VAL:HG12	1:A:226:LYS:O	1.88	0.73
1:C:60:THR:HG23	1:C:60:THR:O	1.88	0.73
1:C:159:ALA:O	1:C:161:ASN:N	2.21	0.73
1:C:337:ILE:HD13	1:C:338:HIS:N	2.04	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:380:PHE:CE1	1:C:398:MET:SD	2.82	0.73
1:A:61:VAL:HG13	1:A:118:LEU:HD13	1.67	0.73
1:A:104:GLN:NE2	1:B:109:ASN:HB3	2.04	0.73
1:A:594:VAL:HA	1:A:655:PHE:CE2	2.23	0.73
1:C:907:LEU:O	1:C:910:ILE:HG22	1.88	0.73
1:A:731:ILE:N	1:A:731:ILE:CD1	2.52	0.73
1:B:48:SER:O	1:B:48:SER:OG	2.06	0.73
1:B:104:GLN:CG	1:B:105:VAL:H	2.02	0.73
1:B:431:THR:HG21	1:B:493:CYS:HB3	1.69	0.73
1:C:190:PRO:O	1:C:192:GLU:N	2.22	0.73
1:A:1:MET:N	1:A:2:PRO:HD2	2.04	0.73
1:A:28:LEU:N	1:A:28:LEU:CD1	2.51	0.73
1:A:605:ASN:OD1	1:A:637:ARG:HG2	1.89	0.73
1:B:327:TYR:CD2	1:B:628:PHE:HB3	2.23	0.73
1:B:773:VAL:O	1:B:773:VAL:CG1	2.36	0.73
1:C:314:GLU:HB2	1:C:315:PRO:CD	2.17	0.73
1:C:402:ILE:O	1:C:406:VAL:HG23	1.88	0.73
1:C:713:LEU:HD11	1:C:834:GLY:CA	2.18	0.73
1:C:953:MET:HE1	1:C:1030:ARG:NH2	2.02	0.73
1:B:590:VAL:O	1:B:594:VAL:HG23	1.88	0.73
1:B:945:ILE:CD1	1:B:1026:PHE:CE2	2.71	0.73
1:C:753:ALA:HB1	1:C:775:SER:HB2	1.69	0.73
1:A:191:ASN:O	1:A:193:LEU:N	2.22	0.73
1:A:415:ASN:HB3	1:A:434:SER:OG	1.89	0.73
1:A:1013:THR:O	1:A:1017:LEU:HB3	1.89	0.73
1:B:345:VAL:HA	1:B:348:ILE:HD12	1.70	0.73
1:C:197:GLN:HB3	1:C:798:MET:HE3	1.71	0.73
1:C:247:GLY:HA2	1:C:268:ILE:HD13	1.71	0.73
1:C:1035:ARG:HA	1:C:1035:ARG:HE	1.54	0.73
1:A:5:PHE:CE1	1:A:12:ALA:HB2	2.24	0.72
1:B:225:VAL:CG2	1:C:781:MET:HE2	2.14	0.72
1:A:58:GLN:NE2	1:A:816:LEU:CD1	2.52	0.72
1:B:493:CYS:O	1:B:494:ALA:HB3	1.89	0.72
1:C:1:MET:CB	1:C:2:PRO:HD2	2.19	0.72
1:C:190:PRO:HD3	1:C:779:TYR:CD1	2.16	0.72
1:C:219:LEU:HD12	1:C:232:ALA:HB3	1.69	0.72
1:B:70:ASN:HD22	1:B:70:ASN:N	1.86	0.72
1:C:3:ASN:HD21	1:C:432:ARG:HD3	1.53	0.72
1:C:4:PHE:CB	1:C:8:ARG:HH22	2.02	0.72
1:C:185:ARG:HB2	1:C:269:GLU:O	1.88	0.72
1:C:713:LEU:O	1:C:831:ALA:HA	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:7:ASP:C	1:B:8:ARG:HD2	2.14	0.72
1:B:139:VAL:O	1:B:140:VAL:C	2.31	0.72
1:C:58:GLN:OE1	1:C:82:SER:OG	2.04	0.72
1:C:562:SER:O	1:C:924:ASP:HA	1.89	0.72
1:A:729:ILE:O	1:A:730:ASP:HB2	1.89	0.72
1:A:790:TYR:HE1	1:A:800:PRO:CG	1.92	0.72
1:A:885:PHE:HD2	1:A:886:LEU:HD12	1.53	0.72
1:B:355:MET:CE	1:B:369:THR:HG23	2.19	0.72
1:B:356:TYR:O	1:B:359:LEU:N	2.22	0.72
1:C:210:GLN:O	1:C:240:LEU:HD21	1.89	0.72
1:C:626:ILE:HD13	1:C:627:ALA:H	1.54	0.72
1:B:962:GLU:O	1:B:966:ASP:CB	2.37	0.72
1:B:538:THR:O	1:B:540:ARG:N	2.21	0.72
1:C:560:PRO:O	1:C:922:THR:CG2	2.38	0.72
1:C:873:ALA:O	1:C:876:LEU:N	2.20	0.72
1:A:298:ASN:HB3	1:A:301:ASP:OD1	1.88	0.72
1:B:210:GLN:HG3	1:B:249:ILE:HG23	1.72	0.72
1:B:613:ASN:ND2	1:B:614:GLY:N	2.37	0.72
1:C:568:ASP:OD2	1:C:644:VAL:HG23	1.89	0.72
1:A:1018:ALA:HB1	1:A:1022:VAL:HG11	1.69	0.72
1:A:1029:VAL:HG12	1:A:1030:ARG:H	1.55	0.72
1:B:807:SER:C	1:B:808:ARG:HG3	2.15	0.72
1:A:223:PRO:HD3	1:B:275:TYR:HB2	1.72	0.72
1:B:20:MET:O	1:B:23:GLY:O	2.08	0.72
1:B:262:LEU:HB3	1:B:268:ILE:HD11	1.70	0.72
1:B:659:LYS:HA	1:B:659:LYS:HZ3	1.53	0.72
1:C:545:TYR:OH	1:C:1021:PHE:CB	2.38	0.72
1:C:781:MET:O	1:C:782:LEU:HD23	1.90	0.72
1:C:959:GLY:H	1:C:962:GLU:HB2	1.55	0.72
1:B:57:VAL:HG23	1:B:58:GLN:H	1.55	0.71
1:B:714:THR:HG21	1:B:833:PRO:CD	2.18	0.71
1:B:972:LEU:CD1	1:B:976:LEU:CD2	2.68	0.71
1:A:182:TYR:HB3	1:A:270:LEU:HD12	1.70	0.71
1:B:358:PHE:HB3	1:B:977:MET:HE2	1.72	0.71
1:B:990:VAL:CG1	1:B:1005:THR:OG1	2.30	0.71
1:C:545:TYR:OH	1:C:1021:PHE:CG	2.42	0.71
1:C:899:PHE:N	1:C:899:PHE:HD1	1.87	0.71
1:A:95:GLU:O	1:A:98:THR:HG23	1.91	0.71
1:B:360:GLN:O	1:B:361:ASN:CB	2.38	0.71
1:B:418:ARG:HE	1:B:970:MET:CE	2.04	0.71
1:C:310:LEU:O	1:C:313:MET:N	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:450:SER:O	1:C:451:ALA:CB	2.38	0.71
1:A:269:GLU:HG3	1:A:270:LEU:O	1.90	0.71
1:B:30:LEU:HD23	1:B:390:ILE:HG13	1.73	0.71
1:C:924:ASP:C	1:C:925:VAL:O	2.33	0.71
1:A:522:LYS:HE2	1:A:522:LYS:H	1.56	0.71
1:A:1024:VAL:HG12	1:A:1025:PHE:H	1.54	0.71
1:B:158:VAL:HA	1:B:162:MET:CG	2.19	0.71
1:B:235:ILE:N	1:B:235:ILE:CD1	2.53	0.71
1:B:952:LEU:HB3	1:B:963:ALA:HB1	1.71	0.71
1:C:189:ASN:CG	1:C:779:TYR:HE1	1.99	0.71
1:C:568:ASP:OD1	1:C:634:TRP:NE1	2.24	0.71
1:A:44:THR:HG22	1:A:89:GLN:HG3	1.72	0.71
1:A:344:LEU:CD2	1:A:402:ILE:CD1	2.68	0.71
1:A:780:ARG:HG2	1:A:780:ARG:NH1	2.06	0.71
1:A:324:VAL:HG12	1:A:325:TYR:N	2.04	0.71
1:A:552:MET:SD	1:A:909:VAL:HG11	2.30	0.71
1:B:45:ILE:HD13	1:B:65:ILE:CG2	2.20	0.71
1:B:100:ALA:O	1:B:103:ALA:HB3	1.91	0.71
1:B:365:THR:O	1:B:368:PRO:HD2	1.91	0.71
1:C:214:VAL:CG1	1:C:215:ALA:N	2.53	0.71
1:A:60:THR:CG2	1:A:119:PRO:CG	2.64	0.71
1:A:255:GLN:CD	1:A:255:GLN:N	2.49	0.71
1:B:538:THR:N	1:B:540:ARG:HH21	1.88	0.71
1:B:851:LEU:N	1:B:852:PRO:HD3	2.04	0.71
1:C:786:ILE:HG22	1:C:786:ILE:O	1.89	0.71
1:A:104:GLN:O	1:A:108:GLN:HB2	1.90	0.71
1:A:187:TRP:CZ3	1:A:774:MET:HE3	2.26	0.71
1:A:476:SER:O	1:A:480:LEU:HB2	1.91	0.71
1:B:775:SER:HB3	1:B:780:ARG:CG	2.19	0.71
1:C:868:LEU:O	1:C:869:SER:HB3	1.89	0.71
1:A:62:THR:O	1:A:63:GLN:O	2.07	0.71
1:B:139:VAL:O	1:B:139:VAL:HG12	1.90	0.71
1:B:804:PHE:O	1:B:805:SER:HB3	1.91	0.71
1:C:229:GLN:O	1:C:230:LEU:HB3	1.91	0.71
1:B:226:LYS:CE	1:B:226:LYS:CA	2.69	0.70
1:B:435:MET:HA	1:B:435:MET:HE3	1.71	0.70
1:B:687:GLN:NE2	1:B:856:GLY:HA3	2.06	0.70
1:B:921:LEU:HD23	1:B:1005:THR:O	1.91	0.70
1:B:1012:VAL:CG2	1:B:1013:THR:H	2.03	0.70
1:C:423:GLU:HB3	1:C:426:PRO:HG2	1.72	0.70
1:A:359:LEU:HD12	1:A:417:GLU:CG	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:ILE:HD12	1:B:90:ILE:HB	1.71	0.70
1:B:831:ALA:HB2	1:B:840:ALA:HB2	1.72	0.70
1:C:344:LEU:CD2	1:C:402:ILE:HD11	2.20	0.70
1:A:30:LEU:HD21	1:A:384:ALA:CB	2.20	0.70
1:A:274:ASN:HD21	1:A:276:ASP:H	1.36	0.70
1:A:991:ILE:CD1	1:A:1008:MET:HG3	2.21	0.70
1:B:892:TYR:HB3	1:B:897:ILE:HD11	1.72	0.70
1:C:450:SER:O	1:C:451:ALA:HB2	1.91	0.70
1:C:972:LEU:H	1:C:974:PRO:HD2	1.55	0.70
1:A:185:ARG:O	1:A:186:ILE:CG1	2.38	0.70
1:A:246:PHE:O	1:A:249:ILE:CD1	2.39	0.70
1:C:899:PHE:N	1:C:899:PHE:CD1	2.60	0.70
1:A:105:VAL:O	1:A:108:GLN:CB	2.39	0.70
1:A:441:ALA:O	1:A:445:ILE:HG23	1.90	0.70
1:A:578:LEU:HD21	1:A:587:THR:HG23	1.72	0.70
1:A:901:VAL:HG11	1:A:943:ILE:HG13	1.74	0.70
1:B:245:GLU:HA	1:B:248:LYS:HG2	1.74	0.70
1:B:534:ILE:HG23	1:B:541:TYR:CZ	2.26	0.70
1:B:549:VAL:CG2	1:B:550:VAL:N	2.53	0.70
1:C:76:MET:HE3	1:C:93:THR:CG2	2.21	0.70
1:C:395:MET:O	1:C:398:MET:N	2.25	0.70
1:C:426:PRO:HB2	1:C:429:GLU:HB2	1.73	0.70
1:A:90:ILE:O	1:A:90:ILE:CG2	2.38	0.70
1:A:832:ALA:HB3	1:A:835:LYS:HB2	1.73	0.70
1:A:961:ILE:O	1:A:965:LEU:CD2	2.38	0.70
1:B:151:GLN:HE22	1:B:279:ALA:H	1.37	0.70
1:B:157:TYR:HA	1:B:161:ASN:HD22	1.54	0.70
1:B:346:GLU:HG2	1:B:346:GLU:O	1.91	0.70
1:B:743:ILE:H	1:B:743:ILE:CD1	2.01	0.70
1:C:184:MET:HB3	1:C:771:VAL:HG13	1.73	0.70
1:C:417:GLU:HB3	1:C:973:ARG:HH12	1.55	0.70
1:C:713:LEU:HD23	1:C:831:ALA:C	2.16	0.70
1:A:190:PRO:HG3	1:A:789:TRP:CD2	2.26	0.70
1:A:246:PHE:O	1:A:249:ILE:HD12	1.92	0.70
1:A:844:MET:HA	1:A:844:MET:HE3	1.73	0.70
1:B:136:PHE:HE1	1:B:617:PHE:HZ	1.36	0.70
1:C:945:ILE:O	1:C:946:VAL:HG23	1.91	0.70
1:A:108:GLN:CD	1:B:112:GLN:CD	2.59	0.70
1:A:488:LEU:O	1:A:492:LEU:HB2	1.90	0.70
1:B:7:ASP:O	1:B:8:ARG:HB2	1.89	0.70
1:C:476:SER:C	1:C:478:MET:H	1.99	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:143:ILE:HG21	1:A:281:PHE:CD2	2.26	0.70
1:C:188:MET:HE1	1:C:200:PRO:CB	2.22	0.70
1:A:90:ILE:CG2	1:A:90:ILE:HD13	2.22	0.70
1:B:525:HIS:CA	1:B:528:THR:HG22	2.21	0.70
1:A:78:MET:O	1:A:78:MET:CG	2.39	0.69
1:A:355:MET:HE3	1:A:977:MET:CE	2.22	0.69
1:A:790:TYR:CE1	1:A:800:PRO:CG	2.71	0.69
1:A:968:VAL:HG21	1:A:1023:PRO:CB	2.21	0.69
1:B:413:VAL:HG13	1:B:414:GLU:N	2.06	0.69
1:C:459:PHE:O	1:C:460:GLY:O	2.09	0.69
1:C:758:TYR:HB3	1:C:772:TYR:CE2	2.26	0.69
1:C:953:MET:SD	1:C:963:ALA:HB2	2.32	0.69
1:B:699:ARG:O	1:B:701:GLN:N	2.26	0.69
1:C:220:GLY:HA3	1:C:231:ASN:HD22	1.57	0.69
1:C:463:THR:CG2	1:C:464:GLY:H	1.87	0.69
1:A:733:GLN:OE1	1:A:743:ILE:HG12	1.92	0.69
1:B:130:GLU:OE1	1:C:110:LYS:HE2	1.92	0.69
1:C:317:PHE:HB2	1:C:318:PRO:CD	2.20	0.69
1:A:46:SER:O	1:A:127:VAL:HG13	1.92	0.69
1:A:463:THR:HA	1:A:466:ILE:HD12	1.73	0.69
1:B:150:THR:H	1:B:153:ASP:CB	2.04	0.69
1:B:649:MET:O	1:B:653:ARG:HB2	1.93	0.69
1:C:474:ILE:O	1:C:476:SER:O	2.10	0.69
1:C:990:VAL:HG13	1:C:1005:THR:HG22	1.75	0.69
1:A:375:VAL:O	1:A:379:THR:HG23	1.91	0.69
1:B:932:LEU:HA	1:B:935:ILE:HD12	1.75	0.69
1:C:1:MET:HB2	1:C:2:PRO:CD	2.22	0.69
1:C:191:ASN:HA	1:C:194:ASN:OD1	1.92	0.69
1:C:251:LEU:HB2	1:C:260:VAL:HG13	1.72	0.69
1:A:406:VAL:HG13	1:A:407:ASP:N	2.04	0.69
1:A:596:HIS:O	1:A:599:LEU:O	2.11	0.69
1:B:973:ARG:HG2	1:B:974:PRO:HD3	1.72	0.69
1:C:1025:PHE:C	1:C:1029:VAL:HG23	2.16	0.69
1:A:166:ILE:N	1:A:166:ILE:CD1	2.56	0.69
1:A:750:LEU:HD11	1:C:216:ALA:CB	2.21	0.69
1:B:55:LYS:O	1:B:57:VAL:N	2.25	0.69
1:B:156:ASP:OD2	1:B:182:TYR:HB2	1.91	0.69
1:C:44:THR:CG2	1:C:91:THR:HB	2.22	0.69
1:A:49:TYR:HE2	1:A:121:GLU:HG2	1.57	0.69
1:A:313:MET:C	1:A:315:PRO:HD2	2.18	0.69
1:A:528:THR:CG2	1:A:969:ARG:HE	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:607:GLU:O	1:A:607:GLU:OE2	2.11	0.69
1:A:687:GLN:NE2	1:A:856:GLY:HA3	2.08	0.69
1:B:169:THR:HB	1:B:172:VAL:HG21	1.74	0.69
1:C:317:PHE:CB	1:C:318:PRO:HD2	2.22	0.69
1:C:790:TYR:C	1:C:791:VAL:HG23	2.17	0.69
1:C:934:THR:O	1:C:935:ILE:C	2.35	0.69
1:A:69:MET:C	1:A:70:ASN:ND2	2.51	0.69
1:B:219:LEU:HD12	1:B:234:ILE:CG1	2.21	0.69
1:B:235:ILE:HD13	1:B:235:ILE:N	2.08	0.69
1:B:1012:VAL:HG23	1:B:1013:THR:N	2.08	0.69
1:C:159:ALA:CB	1:C:181:GLN:HG3	2.23	0.69
1:C:164:ASP:OD1	1:C:164:ASP:N	2.21	0.69
1:A:367:ILE:HG12	1:A:413:VAL:HG21	1.75	0.69
1:A:548:ILE:HG23	1:A:910:ILE:HG12	1.75	0.69
1:B:6:ILE:HA	1:B:491:ALA:HA	1.74	0.69
1:B:523:SER:CA	1:B:526:HIS:HD2	1.93	0.69
1:B:881:LEU:HD21	1:B:905:VAL:HG21	1.75	0.69
1:A:661:ALA:O	1:A:663:VAL:HG23	1.93	0.68
1:B:30:LEU:HD23	1:B:390:ILE:CG1	2.23	0.68
1:C:410:ILE:CG2	1:C:411:VAL:N	2.44	0.68
1:A:48:SER:HB2	1:A:125:GLN:HG3	1.75	0.68
1:B:563:PHE:O	1:B:925:VAL:HG12	1.92	0.68
1:B:653:ARG:O	1:B:656:SER:OG	2.07	0.68
1:B:324:VAL:O	1:B:326:PRO:HD2	1.93	0.68
1:C:431:THR:HG21	1:C:494:ALA:CB	2.16	0.68
1:A:108:GLN:CG	1:B:112:GLN:CD	2.57	0.68
1:B:252:LYS:HG2	1:B:253:VAL:H	1.57	0.68
1:B:573:MET:HE1	1:B:617:PHE:HE2	1.59	0.68
1:B:942:ALA:HA	1:B:1022:VAL:HG11	1.74	0.68
1:C:17:ILE:N	1:C:17:ILE:CD1	2.56	0.68
1:A:115:MET:O	1:A:116:PRO:C	2.35	0.68
1:A:890:ALA:HB2	1:C:10:ILE:O	1.94	0.68
1:B:109:ASN:ND2	1:B:112:GLN:NE2	2.41	0.68
1:B:157:TYR:CA	1:B:161:ASN:HD22	2.07	0.68
1:B:973:ARG:HG3	1:B:974:PRO:HD3	1.75	0.68
1:C:418:ARG:HD2	1:C:970:MET:CE	2.23	0.68
1:A:194:ASN:ND2	1:A:790:TYR:CD2	2.61	0.68
1:A:261:LEU:HD12	1:A:263:ARG:HH22	1.59	0.68
1:A:600:THR:O	1:A:600:THR:HG22	1.91	0.68
1:B:136:PHE:HD2	1:B:290:GLY:O	1.75	0.68
1:B:555:LEU:HB2	1:B:913:LEU:HD23	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:775:SER:O	1:C:776:GLU:C	2.35	0.68
1:C:922:THR:CG2	1:C:923:ASN:H	2.04	0.68
1:A:15:ILE:O	1:A:19:ILE:HG13	1.93	0.68
1:A:583:THR:HG22	1:A:585:GLU:N	2.09	0.68
1:B:1012:VAL:CG2	1:B:1013:THR:N	2.57	0.68
1:C:162:MET:CB	1:C:313:MET:HE1	1.99	0.68
1:C:420:MET:SD	1:C:498:LYS:NZ	2.66	0.68
1:C:975:ILE:HG22	1:C:976:LEU:N	2.07	0.68
1:B:558:ARG:HG2	1:B:558:ARG:HH11	1.59	0.68
1:B:979:SER:O	1:B:1011:MET:HE3	1.94	0.68
1:C:102:ILE:O	1:C:103:ALA:C	2.34	0.68
1:C:176:GLN:HE21	1:C:620:ARG:HH11	1.42	0.68
1:C:933:THR:O	1:C:937:LEU:HB2	1.94	0.68
1:A:184:MET:HB3	1:A:771:VAL:HG13	1.76	0.68
1:B:945:ILE:HG13	1:B:1026:PHE:CE2	2.27	0.68
1:B:1005:THR:O	1:B:1005:THR:CG2	2.42	0.68
1:C:214:VAL:CG1	1:C:215:ALA:H	2.06	0.68
1:C:241:THR:O	1:C:241:THR:OG1	2.10	0.68
1:C:572:PHE:HE2	1:C:631:LEU:HD21	1.58	0.68
1:A:58:GLN:OE1	1:A:818:ARG:NH2	2.25	0.68
1:C:1024:VAL:HG12	1:C:1028:VAL:HG21	1.74	0.68
1:B:24:GLY:HA2	1:B:27:ILE:CG2	2.24	0.67
1:B:276:ASP:O	1:B:614:GLY:HA3	1.94	0.67
1:B:463:THR:HA	1:B:466:ILE:HG13	1.75	0.67
1:B:945:ILE:HD11	1:B:1026:PHE:HE2	1.56	0.67
1:B:10:ILE:HG13	1:C:893:GLU:O	1.94	0.67
1:B:399:VAL:HG11	1:B:989:LEU:HG	1.75	0.67
1:B:651:ALA:O	1:B:655:PHE:CE2	2.47	0.67
1:B:940:LYS:NZ	1:B:978:THR:HG23	2.09	0.67
1:C:244:GLU:HA	1:C:263:ARG:NH2	2.09	0.67
1:A:324:VAL:C	1:A:325:TYR:HD1	2.02	0.67
1:B:26:ALA:O	1:B:30:LEU:HD22	1.94	0.67
1:B:65:ILE:HD11	1:B:118:LEU:HD21	1.77	0.67
1:B:452:VAL:O	1:B:453:PHE:HB2	1.94	0.67
1:B:785:ASP:O	1:B:786:ILE:C	2.36	0.67
1:A:139:VAL:O	1:A:139:VAL:HG22	1.95	0.67
1:B:537:SER:C	1:B:540:ARG:HE	2.01	0.67
1:C:102:ILE:HG22	1:C:106:GLN:HG3	1.75	0.67
1:A:355:MET:HE3	1:A:410:ILE:HG12	1.76	0.67
1:C:934:THR:O	1:C:936:GLY:N	2.28	0.67
1:A:548:ILE:CG2	1:A:910:ILE:HG12	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:945:ILE:CG1	1:A:971:ARG:HG2	2.14	0.67
1:B:116:PRO:HA	1:B:123:GLN:HE22	1.59	0.67
1:B:140:VAL:HG13	1:B:291:ILE:HD12	1.77	0.67
1:B:252:LYS:HB3	1:B:260:VAL:CG1	2.24	0.67
1:B:897:ILE:HG13	1:B:898:PRO:HD3	1.77	0.67
1:C:514:GLY:O	1:C:518:ARG:HG3	1.95	0.67
1:C:790:TYR:CE1	1:C:800:PRO:HB3	2.29	0.67
1:C:945:ILE:C	1:C:945:ILE:HD12	2.18	0.67
1:A:883:VAL:O	1:A:887:CYS:HB2	1.94	0.67
1:A:945:ILE:HG12	1:A:971:ARG:CG	2.14	0.67
1:A:952:LEU:HD12	1:A:953:MET:N	2.10	0.67
1:B:115:MET:HE1	1:B:127:VAL:HG21	1.77	0.67
1:A:418:ARG:NH1	1:A:973:ARG:HB3	2.08	0.67
1:A:498:LYS:O	1:A:498:LYS:NZ	2.25	0.67
1:B:952:LEU:HD12	1:B:956:GLU:OE2	1.94	0.67
1:C:39:ALA:HB2	1:C:673:GLU:HB3	1.77	0.67
1:C:576:VAL:CG1	1:C:663:VAL:HG22	2.21	0.67
1:A:355:MET:HE3	1:A:977:MET:HE2	1.75	0.67
1:B:355:MET:O	1:B:365:THR:OG1	2.13	0.67
1:B:537:SER:CA	1:B:540:ARG:HE	2.07	0.67
1:C:905:VAL:HB	1:C:906:PRO:HD3	1.76	0.67
1:B:51:GLY:O	1:B:53:ASP:OD2	2.13	0.67
1:B:181:GLN:OE1	1:B:767:ARG:NE	2.24	0.67
1:B:314:GLU:HA	1:B:317:PHE:CD2	2.30	0.67
1:B:420:MET:CE	1:B:425:LEU:HD23	2.25	0.67
1:C:879:ILE:O	1:C:883:VAL:HG23	1.95	0.67
1:A:540:ARG:HG3	1:A:541:TYR:H	1.59	0.66
1:C:554:TYR:HD1	1:C:558:ARG:HH21	1.35	0.66
1:A:601:LYS:HG3	1:A:601:LYS:O	1.94	0.66
1:A:635:ALA:C	1:A:637:ARG:H	2.01	0.66
1:B:213:GLN:CG	1:C:56:THR:HG23	2.25	0.66
1:B:293:LEU:HD22	1:B:294:ALA:O	1.95	0.66
1:B:335:ILE:C	1:B:337:ILE:H	2.03	0.66
1:C:686:ASP:OD1	1:C:690:LEU:HB2	1.95	0.66
1:C:950:LYS:HZ1	1:C:1030:ARG:CD	2.07	0.66
1:B:600:THR:OG1	1:B:601:LYS:NZ	2.26	0.66
1:B:641:GLU:HA	1:B:650:ARG:NH1	2.10	0.66
1:C:721:LEU:HD23	1:C:721:LEU:O	1.95	0.66
1:C:843:LEU:HA	1:C:846:GLN:NE2	2.10	0.66
1:A:655:PHE:C	1:A:656:SER:O	2.31	0.66
1:B:42:ALA:HB2	1:B:93:THR:CG2	2.16	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:5:PHE:HE2	1:C:11:PHE:HD2	1.43	0.66
1:A:188:MET:HA	1:A:266:ALA:HB2	1.76	0.66
1:B:371:ALA:O	1:B:375:VAL:HG23	1.95	0.66
1:A:119:PRO:HG2	1:A:122:VAL:HG23	1.77	0.66
1:A:742:SER:HG	1:A:745:ASP:HB2	1.57	0.66
1:B:13:TRP:HA	1:B:13:TRP:CE3	2.30	0.66
1:B:562:SER:O	1:B:924:ASP:HA	1.95	0.66
1:A:28:LEU:N	1:A:28:LEU:HD12	2.10	0.66
1:A:38:ILE:O	1:A:462:SER:HA	1.95	0.66
1:A:348:ILE:HA	1:A:351:VAL:HG23	1.76	0.66
1:A:418:ARG:HH11	1:A:973:ARG:HE	1.44	0.66
1:A:820:ASN:O	1:A:822:LEU:CD2	2.43	0.66
1:B:178:PHE:CA	1:B:277:ILE:HG21	2.25	0.66
1:B:416:VAL:HG11	1:B:431:THR:HG22	1.76	0.66
1:B:518:ARG:HA	1:B:521:GLU:HB2	1.78	0.66
1:B:574:THR:HG23	1:B:665:ALA:CB	2.25	0.66
1:C:4:PHE:HB3	1:C:8:ARG:NH2	2.08	0.66
1:C:82:SER:HB3	1:C:88:VAL:HA	1.76	0.66
1:A:13:TRP:O	1:A:17:ILE:HG13	1.96	0.66
1:A:155:SER:HA	1:A:287:SER:OG	1.96	0.66
1:B:219:LEU:HD23	1:C:783:PRO:HG3	1.77	0.66
1:A:367:ILE:HD12	1:A:368:PRO:N	2.11	0.66
1:A:428:LYS:HE3	1:A:429:GLU:OE2	1.96	0.66
1:A:521:GLU:HB3	1:A:522:LYS:HZ3	1.61	0.66
1:B:68:ASN:HD22	1:B:114:ALA:HB2	1.61	0.66
1:C:82:SER:CB	1:C:88:VAL:HA	2.26	0.66
1:C:449:LEU:HB2	1:C:478:MET:CE	2.26	0.66
1:C:549:VAL:C	1:C:551:GLY:N	2.53	0.66
1:C:641:GLU:H	1:C:641:GLU:CD	2.04	0.66
1:A:568:ASP:O	1:A:634:TRP:HH2	1.79	0.66
1:B:2:PRO:HD3	1:B:486:LEU:HD12	1.78	0.66
1:C:358:PHE:HB3	1:C:977:MET:CE	2.24	0.66
1:C:527:TYR:CE2	1:C:972:LEU:HD23	2.31	0.66
1:C:742:SER:O	1:C:746:ILE:HG13	1.96	0.66
1:C:848:ALA:HA	1:C:851:LEU:HD11	1.77	0.66
1:A:138:MET:HE3	1:A:306:ILE:CD1	2.22	0.65
1:A:323:ILE:HG12	1:A:325:TYR:HE1	1.60	0.65
1:B:476:SER:O	1:B:477:ALA:C	2.39	0.65
1:B:1021:PHE:HB3	1:B:1025:PHE:CE1	2.30	0.65
1:C:344:LEU:HD23	1:C:399:VAL:HG22	1.79	0.65
1:A:963:ALA:O	1:A:965:LEU:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:247:GLY:HA2	1:B:268:ILE:HD13	0.72	0.65
1:C:17:ILE:N	1:C:17:ILE:HD12	2.10	0.65
1:C:260:VAL:HG13	1:C:260:VAL:O	1.94	0.65
1:C:459:PHE:CD2	1:C:459:PHE:N	2.59	0.65
1:A:64:VAL:O	1:A:65:ILE:O	2.14	0.65
1:A:73:ASP:CG	1:A:106:GLN:NE2	2.54	0.65
1:A:568:ASP:HB3	1:A:634:TRP:CZ3	2.25	0.65
1:A:815:ARG:HH11	1:A:815:ARG:CG	2.06	0.65
1:C:188:MET:HA	1:C:266:ALA:CB	2.25	0.65
1:C:244:GLU:O	1:C:263:ARG:NH2	2.29	0.65
1:C:358:PHE:CB	1:C:977:MET:HE2	2.26	0.65
1:C:688:ALA:C	1:C:690:LEU:H	2.03	0.65
1:A:185:ARG:O	1:A:186:ILE:HG13	1.97	0.65
1:A:521:GLU:HB3	1:A:522:LYS:NZ	2.12	0.65
1:B:48:SER:HA	1:B:87:THR:HA	1.77	0.65
1:B:408:ASP:C	1:B:410:ILE:H	2.04	0.65
1:B:908:GLY:C	1:B:910:ILE:H	2.02	0.65
1:C:102:ILE:HG22	1:C:106:GLN:CG	2.26	0.65
1:C:166:ILE:C	1:C:167:SER:CA	2.65	0.65
1:C:338:HIS:ND1	1:C:338:HIS:O	2.30	0.65
1:C:65:ILE:HD13	1:C:111:LEU:HD23	1.77	0.65
1:C:435:MET:HE2	1:C:490:PRO:HB3	1.77	0.65
1:A:463:THR:O	1:A:465:ALA:N	2.28	0.65
1:B:160:ALA:HB1	1:B:767:ARG:HD2	1.78	0.65
1:B:200:PRO:CD	1:B:749:THR:HG22	2.26	0.65
1:B:562:SER:HA	1:B:837:THR:OG1	1.97	0.65
1:B:784:ASP:O	1:B:785:ASP:C	2.38	0.65
1:B:919:ARG:HG3	1:B:1005:THR:HG21	1.76	0.65
1:C:35:TYR:CD1	1:C:671:ILE:HG12	2.31	0.65
1:C:378:GLY:O	1:C:382:VAL:HG23	1.97	0.65
1:C:928:GLN:N	1:C:928:GLN:OE1	2.28	0.65
1:A:545:TYR:HB2	1:A:1021:PHE:CE1	2.31	0.65
1:B:262:LEU:HD22	1:B:266:ALA:CB	2.26	0.65
1:C:423:GLU:O	1:C:426:PRO:HD3	1.96	0.65
1:A:78:MET:O	1:A:78:MET:HG2	1.96	0.65
1:A:350:LEU:HD11	1:A:984:LEU:HB2	1.79	0.65
1:A:418:ARG:CD	1:A:970:MET:HG3	2.27	0.65
1:B:6:ILE:HD12	1:B:490:PRO:CB	2.22	0.65
1:B:623:ASN:C	1:B:623:ASN:ND2	2.42	0.65
1:B:972:LEU:CD1	1:B:976:LEU:HD23	2.16	0.65
1:C:404:LEU:CD2	1:C:937:LEU:HD13	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:519:MET:HG3	1:C:520:PHE:N	2.10	0.65
1:C:536:ARG:NH1	1:C:961:ILE:CD1	2.60	0.65
1:C:626:ILE:HD13	1:C:627:ALA:N	2.10	0.65
1:A:113:LEU:HD13	1:C:108:GLN:HE22	1.62	0.65
1:A:754:TRP:CZ2	1:A:786:ILE:HG12	2.31	0.65
1:B:177:LEU:HD12	1:B:178:PHE:N	2.12	0.65
1:B:431:THR:CG2	1:B:493:CYS:HB3	2.25	0.65
1:B:587:THR:O	1:B:591:LEU:HB2	1.97	0.65
1:B:713:LEU:HD12	1:B:713:LEU:N	2.09	0.65
1:A:58:GLN:HE21	1:A:816:LEU:HD12	1.60	0.65
1:A:200:PRO:CD	1:A:749:THR:HG23	2.27	0.65
1:B:537:SER:O	1:B:540:ARG:HB2	1.97	0.65
1:C:4:PHE:O	1:C:8:ARG:HG2	1.97	0.65
1:C:251:LEU:HB2	1:C:260:VAL:O	1.97	0.65
1:C:527:TYR:OH	1:C:968:VAL:HG12	1.96	0.65
1:A:51:GLY:O	1:C:215:ALA:HB1	1.97	0.64
1:C:674:LEU:HD21	1:C:862:MET:N	2.11	0.64
1:C:897:ILE:HG12	1:C:950:LYS:NZ	2.12	0.64
1:A:188:MET:HA	1:A:266:ALA:CB	2.27	0.64
1:B:372:VAL:HG22	1:B:373:PRO:CD	2.26	0.64
1:B:655:PHE:C	1:B:658:ILE:HG12	2.22	0.64
1:B:831:ALA:HB3	1:B:840:ALA:HB2	1.78	0.64
1:B:953:MET:HG2	1:B:953:MET:O	1.96	0.64
1:A:407:ASP:O	1:A:408:ASP:C	2.41	0.64
1:B:189:ASN:HD22	1:B:190:PRO:HD2	1.61	0.64
1:C:950:LYS:HZ3	1:C:1030:ARG:CD	1.99	0.64
1:A:73:ASP:CG	1:A:106:GLN:HE22	2.06	0.64
1:B:453:PHE:HA	1:B:456:MET:SD	2.37	0.64
1:B:489:THR:O	1:B:492:LEU:HB2	1.97	0.64
1:B:537:SER:HB2	1:B:540:ARG:CG	2.23	0.64
1:B:555:LEU:HG	1:B:914:LEU:HD23	1.79	0.64
1:B:632:LYS:O	1:B:637:ARG:HD2	1.98	0.64
1:B:640:GLU:O	1:B:643:LYS:HB2	1.98	0.64
1:C:72:ILE:HG22	1:C:94:PHE:HE2	1.62	0.64
1:A:736:ALA:O	1:A:741:VAL:CG1	2.45	0.64
1:B:699:ARG:HG2	1:B:700:ASN:H	1.59	0.64
1:C:685:ILE:HD11	1:C:687:GLN:CD	2.22	0.64
1:A:193:LEU:HB2	1:A:265:VAL:HG13	1.79	0.64
1:A:616:GLY:HA3	1:A:624:THR:OG1	1.98	0.64
1:C:84:SER:C	1:C:86:GLY:H	2.06	0.64
1:C:166:ILE:HA	1:C:166:ILE:CD1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:435:MET:HA	1:C:438:ILE:HG22	1.80	0.64
1:C:686:ASP:OD1	1:C:686:ASP:C	2.37	0.64
1:C:1010:GLY:HA2	1:C:1013:THR:CG2	2.28	0.64
1:A:686:ASP:OD1	1:A:686:ASP:O	2.15	0.64
1:A:983:ILE:HD12	1:A:983:ILE:O	1.96	0.64
1:B:74:ASN:O	1:B:94:PHE:HB3	1.97	0.64
1:B:591:LEU:O	1:B:595:THR:HG22	1.98	0.64
1:C:633:ASP:CG	1:C:633:ASP:O	2.40	0.64
1:C:673:GLU:O	1:C:674:LEU:CB	2.44	0.64
1:A:191:ASN:C	1:A:193:LEU:H	2.05	0.64
1:B:223:PRO:O	1:B:223:PRO:CG	2.45	0.64
1:B:545:TYR:O	1:B:547:ILE:N	2.31	0.64
1:B:602:GLU:C	1:B:604:ASN:H	2.04	0.64
1:B:707:ALA:O	1:B:708:LYS:CB	2.45	0.64
1:C:414:GLU:OE1	1:C:977:MET:HE3	1.98	0.64
1:A:846:GLN:O	1:A:849:SER:HB3	1.98	0.64
1:B:228:GLN:HE21	1:C:781:MET:HE3	1.63	0.64
1:B:601:LYS:C	1:B:603:LYS:H	2.05	0.64
1:C:291:ILE:CD1	1:C:291:ILE:CB	2.73	0.64
1:C:513:PHE:CA	1:C:516:PHE:HB3	2.18	0.64
1:B:409:ALA:HB2	1:B:485:ALA:HB2	1.79	0.64
1:B:911:GLY:CA	1:B:1013:THR:HG21	2.18	0.64
1:B:1014:ALA:O	1:B:1018:ALA:HB2	1.98	0.64
1:A:359:LEU:CD1	1:A:417:GLU:CG	2.68	0.63
1:A:950:LYS:O	1:A:951:ASP:HB3	1.98	0.63
1:B:144:ASN:OD1	1:B:149:MET:HG3	1.98	0.63
1:B:171:GLY:HA3	1:B:302:THR:HG21	1.78	0.63
1:B:230:LEU:HD21	1:C:809:TRP:CH2	2.34	0.63
1:B:910:ILE:O	1:B:914:LEU:HG	1.97	0.63
1:C:453:PHE:O	1:C:456:MET:HG2	1.97	0.63
1:C:552:MET:CE	1:C:909:VAL:HG21	2.28	0.63
1:C:564:LEU:CD2	1:C:671:ILE:HD12	2.28	0.63
1:A:298:ASN:ND2	1:A:300:LEU:N	2.46	0.63
1:A:324:VAL:C	1:A:325:TYR:CD1	2.77	0.63
1:B:602:GLU:OE1	1:B:650:ARG:NH2	2.31	0.63
1:B:921:LEU:CD2	1:B:1005:THR:CG2	2.75	0.63
1:B:1025:PHE:H	1:B:1028:VAL:CG2	2.11	0.63
1:C:202:ASP:OD2	1:C:792:ARG:NH2	2.27	0.63
1:A:298:ASN:HD22	1:A:299:ALA:N	1.97	0.63
1:A:344:LEU:HD23	1:A:402:ILE:CD1	2.13	0.63
1:A:686:ASP:O	1:A:688:ALA:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:727:PHE:O	1:C:234:ILE:HA	1.99	0.63
1:B:85:THR:HG23	1:B:87:THR:HB	1.79	0.63
1:B:448:VAL:O	1:B:452:VAL:HG22	1.99	0.63
1:B:693:GLU:O	1:B:696:THR:OG1	2.16	0.63
1:C:238:THR:HG22	1:C:239:ARG:O	1.99	0.63
1:A:659:LYS:O	1:A:661:ALA:N	2.32	0.63
1:B:622:GLN:CG	1:B:622:GLN:O	2.44	0.63
1:B:785:ASP:O	1:B:787:GLY:N	2.31	0.63
1:B:790:TYR:CE1	1:B:800:PRO:HB3	2.30	0.63
1:B:901:VAL:HG21	1:B:943:ILE:HD13	1.81	0.63
1:C:164:ASP:O	1:C:168:ARG:HG2	1.98	0.63
1:A:426:PRO:HG2	1:A:429:GLU:OE2	1.99	0.63
1:A:911:GLY:H	1:A:914:LEU:HD13	1.63	0.63
1:B:80:SER:OG	1:B:90:ILE:HG12	1.99	0.63
1:B:692:HIS:ND1	1:B:692:HIS:C	2.57	0.63
1:B:904:VAL:CG1	1:B:907:LEU:CD1	2.52	0.63
1:C:45:ILE:CA	1:C:45:ILE:CG1	2.73	0.63
1:A:740:GLY:C	1:A:793:ALA:HB1	2.23	0.63
1:B:116:PRO:HA	1:B:123:GLN:NE2	2.13	0.63
1:B:137:LEU:CD1	1:B:299:ALA:HB1	2.28	0.63
1:B:905:VAL:CG2	1:B:935:ILE:HG12	2.29	0.63
1:C:637:ARG:HB3	1:C:642:ASN:HB3	1.81	0.63
1:A:316:PHE:O	1:A:321:LEU:HD11	1.99	0.63
1:A:372:VAL:O	1:A:375:VAL:N	2.32	0.63
1:A:760:ASN:O	1:A:771:VAL:HB	1.99	0.63
1:A:988:PRO:O	1:A:989:LEU:C	2.42	0.63
1:B:845:GLU:HG3	1:B:857:TYR:OH	1.97	0.63
1:B:876:LEU:CD1	1:B:932:LEU:HD11	2.28	0.63
1:C:701:GLN:O	1:C:704:ALA:HB3	1.99	0.63
1:C:713:LEU:HD21	1:C:835:LYS:H	1.62	0.63
1:C:910:ILE:CG2	1:C:911:GLY:H	2.10	0.63
1:A:11:PHE:CD1	1:B:890:ALA:HB1	2.34	0.63
1:A:47:ALA:HB3	1:A:88:VAL:CG2	2.28	0.63
1:A:58:GLN:NE2	1:A:816:LEU:HD12	2.14	0.63
1:A:193:LEU:HB2	1:A:265:VAL:CG1	2.29	0.63
1:B:49:TYR:CE2	1:B:122:VAL:HA	2.34	0.63
1:C:358:PHE:CD1	1:C:977:MET:HE2	2.33	0.63
1:C:538:THR:O	1:C:540:ARG:HG2	1.99	0.63
1:A:520:PHE:H	1:A:522:LYS:HE3	1.63	0.63
1:A:736:ALA:O	1:A:741:VAL:HG12	1.99	0.63
1:B:125:GLN:CG	1:B:125:GLN:O	2.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:ILE:HG23	1:B:266:ALA:HB1	1.81	0.63
1:B:587:THR:HG22	1:B:613:ASN:OD1	1.99	0.63
1:B:712:MET:HB3	1:B:713:LEU:CD1	2.16	0.63
1:C:352:PHE:CA	1:C:369:THR:HG21	2.26	0.63
1:C:708:LYS:C	1:C:710:PRO:HD3	2.24	0.63
1:C:764:ASP:O	1:C:765:ARG:C	2.42	0.63
1:C:919:ARG:HB3	1:C:921:LEU:CD2	2.29	0.63
1:C:490:PRO:C	1:C:491:ALA:O	2.37	0.62
1:C:801:PHE:O	1:C:805:SER:OG	2.16	0.62
1:A:171:GLY:O	1:A:172:VAL:C	2.42	0.62
1:A:311:ALA:O	1:A:312:LYS:HB2	1.99	0.62
1:A:781:MET:HB3	1:C:228:GLN:OE1	1.99	0.62
1:A:936:GLY:O	1:A:940:LYS:HB2	1.99	0.62
1:A:983:ILE:HG13	1:A:984:LEU:N	2.13	0.62
1:C:1007:VAL:HG12	1:C:1008:MET:N	2.14	0.62
1:B:115:MET:CE	1:B:118:LEU:HD22	2.30	0.62
1:B:403:GLY:O	1:B:404:LEU:HD23	1.98	0.62
1:B:418:ARG:HH21	1:B:970:MET:CG	2.12	0.62
1:B:860:THR:HG22	1:B:861:GLY:N	2.14	0.62
1:C:92:LEU:HD22	1:C:107:VAL:CG2	2.29	0.62
1:C:418:ARG:HG3	1:C:419:VAL:HG13	1.82	0.62
1:A:95:GLU:O	1:A:98:THR:CG2	2.47	0.62
1:A:282:ASN:HD21	1:A:609:VAL:H	1.47	0.62
1:B:437:GLN:HA	1:B:437:GLN:HE21	1.64	0.62
1:A:10:ILE:HD11	1:B:895:TRP:CB	2.30	0.62
1:A:170:SER:O	1:A:170:SER:OG	2.16	0.62
1:B:298:ASN:HB2	1:B:301:ASP:OD1	2.00	0.62
1:B:973:ARG:HG2	1:B:974:PRO:HD2	1.80	0.62
1:C:427:PRO:O	1:C:431:THR:HG22	2.00	0.62
1:C:476:SER:O	1:C:478:MET:N	2.32	0.62
1:B:953:MET:HA	1:B:958:LYS:HA	1.81	0.62
1:C:15:ILE:O	1:C:16:ALA:C	2.41	0.62
1:C:144:ASN:ND2	1:C:149:MET:HG3	2.13	0.62
1:C:492:LEU:O	1:C:496:MET:HG2	2.00	0.62
1:C:685:ILE:HD12	1:C:686:ASP:N	2.15	0.62
1:C:686:ASP:HB3	1:C:823:PRO:HG2	1.82	0.62
1:B:804:PHE:O	1:B:805:SER:CB	2.48	0.62
1:B:902:MET:O	1:B:905:VAL:HG12	1.98	0.62
1:B:1024:VAL:O	1:B:1025:PHE:HB2	1.98	0.62
1:C:80:SER:O	1:C:89:GLN:O	2.17	0.62
1:A:653:ARG:O	1:A:656:SER:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:84:SER:C	1:B:86:GLY:H	2.08	0.62
1:B:190:PRO:HG2	1:B:779:TYR:CD1	2.35	0.62
1:B:681:ASP:O	1:B:859:TRP:HE3	1.82	0.62
1:B:1026:PHE:HB3	1:B:1030:ARG:CZ	2.30	0.62
1:C:685:ILE:HD11	1:C:687:GLN:HA	1.81	0.62
1:C:965:LEU:HG	1:C:966:ASP:H	1.64	0.62
1:C:166:ILE:HA	1:C:166:ILE:HD13	1.82	0.62
1:A:472:ILE:H	1:A:472:ILE:CD1	2.08	0.62
1:A:588:GLN:O	1:A:591:LEU:N	2.32	0.62
1:A:845:GLU:CD	1:A:859:TRP:HE1	2.08	0.62
1:B:612:VAL:HG23	1:B:626:ILE:O	2.00	0.62
1:B:631:LEU:HD13	1:B:637:ARG:NH2	2.15	0.62
1:C:527:TYR:CD2	1:C:972:LEU:HD23	2.35	0.62
1:C:686:ASP:OD2	1:C:690:LEU:HB2	1.99	0.62
1:C:693:GLU:O	1:C:694:LYS:C	2.41	0.62
1:C:699:ARG:CG	1:C:699:ARG:NH1	2.43	0.62
1:A:199:THR:HB	1:A:200:PRO:CD	2.30	0.61
1:A:818:ARG:HA	1:A:824:SER:N	2.15	0.61
1:A:902:MET:O	1:A:905:VAL:HG23	2.00	0.61
1:A:983:ILE:C	1:A:983:ILE:CD1	2.71	0.61
1:A:1020:PHE:O	1:A:1024:VAL:HG23	2.00	0.61
1:B:602:GLU:C	1:B:604:ASN:N	2.58	0.61
1:C:58:GLN:HG3	1:C:62:THR:OG1	1.99	0.61
1:A:61:VAL:HG21	1:A:122:VAL:HG21	1.81	0.61
1:A:191:ASN:C	1:A:193:LEU:N	2.57	0.61
1:A:298:ASN:HD22	1:A:300:LEU:H	1.47	0.61
1:A:527:TYR:CD2	1:A:972:LEU:HG	2.35	0.61
1:A:578:LEU:O	1:A:623:ASN:ND2	2.34	0.61
1:A:588:GLN:HG2	1:A:613:ASN:ND2	2.14	0.61
1:A:924:ASP:O	1:A:927:PHE:HB3	2.00	0.61
1:B:225:VAL:H	1:C:781:MET:HE2	1.64	0.61
1:B:328:ASP:OD2	1:B:330:THR:N	2.33	0.61
1:B:623:ASN:HD22	1:B:624:THR:N	1.97	0.61
1:C:203:VAL:O	1:C:204:ILE:C	2.42	0.61
1:C:344:LEU:HD21	1:C:399:VAL:HG23	1.81	0.61
1:A:64:VAL:O	1:A:68:ASN:OD1	2.18	0.61
1:B:56:THR:O	1:B:60:THR:HB	2.00	0.61
1:B:57:VAL:HG11	1:B:86:GLY:HA2	1.82	0.61
1:B:732:ASP:HB2	1:B:735:LYS:HG3	1.82	0.61
1:B:743:ILE:HD12	1:B:743:ILE:N	2.12	0.61
1:C:189:ASN:HD21	1:C:191:ASN:HD22	1.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:190:PRO:HG3	1:C:789:TRP:CE2	2.35	0.61
1:C:551:GLY:O	1:C:555:LEU:HD23	2.00	0.61
1:C:846:GLN:O	1:C:849:SER:OG	2.18	0.61
1:C:894:SER:C	1:C:896:SER:H	2.07	0.61
1:A:356:TYR:C	1:A:358:PHE:H	2.08	0.61
1:A:359:LEU:HD11	1:A:417:GLU:HG2	1.79	0.61
1:A:543:VAL:HG22	1:A:544:LEU:H	1.64	0.61
1:A:60:THR:HG22	1:A:61:VAL:CG2	2.30	0.61
1:A:461:GLY:O	1:A:463:THR:O	2.19	0.61
1:A:551:GLY:O	1:A:554:TYR:HB3	2.00	0.61
1:A:1016:VAL:O	1:A:1016:VAL:HG12	2.00	0.61
1:B:109:ASN:ND2	1:B:112:GLN:HE22	1.98	0.61
1:B:204:ILE:O	1:B:205:THR:C	2.42	0.61
1:B:543:VAL:O	1:B:547:ILE:CD1	2.48	0.61
1:B:791:VAL:CG2	1:B:801:PHE:HE2	2.13	0.61
1:B:922:THR:OG1	1:B:923:ASN:N	2.33	0.61
1:A:223:PRO:HD3	1:B:275:TYR:CG	2.34	0.61
1:A:894:SER:OG	1:A:897:ILE:HB	1.99	0.61
1:C:682:PHE:HE2	1:C:702:LEU:CD1	2.13	0.61
1:C:848:ALA:HA	1:C:851:LEU:CD1	2.30	0.61
1:A:169:THR:O	1:A:172:VAL:HG22	2.00	0.61
1:A:1021:PHE:O	1:A:1024:VAL:HB	2.00	0.61
1:B:3:ASN:N	1:B:6:ILE:HG12	2.15	0.61
1:B:9:PRO:O	1:B:12:ALA:HB3	1.99	0.61
1:B:423:GLU:OE1	1:B:427:PRO:CD	2.49	0.61
1:B:921:LEU:H	1:B:921:LEU:HD13	1.64	0.61
1:B:1027:VAL:O	1:B:1030:ARG:O	2.19	0.61
1:C:950:LYS:N	1:C:953:MET:HE2	2.11	0.61
1:A:200:PRO:CG	1:A:749:THR:HG23	2.31	0.61
1:A:746:ILE:HD13	1:A:804:PHE:CE1	2.36	0.61
1:B:25:LEU:C	1:B:27:ILE:H	2.07	0.61
1:B:160:ALA:CB	1:B:767:ARG:HD3	2.27	0.61
1:C:445:ILE:HD13	1:C:940:LYS:HE3	1.83	0.61
1:C:584:GLN:HB2	1:C:622:GLN:NE2	2.13	0.61
1:C:819:TYR:O	1:C:820:ASN:HB2	1.99	0.61
1:B:68:ASN:ND2	1:B:114:ALA:HB2	2.15	0.61
1:B:538:THR:C	1:B:540:ARG:H	2.09	0.61
1:B:588:GLN:OE1	1:B:588:GLN:HA	2.01	0.61
1:B:695:LEU:HD12	1:B:825:MET:HE3	1.81	0.61
1:C:456:MET:O	1:C:457:ALA:C	2.41	0.61
1:A:56:THR:HG23	1:C:213:GLN:HG3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:583:THR:O	1:A:584:GLN:C	2.44	0.61
1:A:818:ARG:CG	1:A:818:ARG:NE	2.62	0.61
1:A:885:PHE:CD2	1:A:886:LEU:HD12	2.36	0.61
1:A:901:VAL:O	1:A:904:VAL:CG2	2.49	0.61
1:B:45:ILE:CD1	1:B:69:MET:HE3	2.30	0.61
1:B:136:PHE:CE1	1:B:617:PHE:HZ	2.17	0.61
1:B:777:ALA:O	1:B:780:ARG:HB2	2.01	0.61
1:C:38:ILE:HG21	1:C:466:ILE:HD11	1.83	0.61
1:C:115:MET:N	1:C:116:PRO:HD2	2.16	0.61
1:C:415:ASN:HD21	1:C:434:SER:CB	2.14	0.61
1:C:540:ARG:HG3	1:C:541:TYR:CD1	2.35	0.61
1:C:588:GLN:HG2	1:C:613:ASN:ND2	2.13	0.61
1:C:843:LEU:O	1:C:846:GLN:HB2	2.01	0.61
1:A:436:GLY:HA2	1:A:439:GLN:HB2	1.83	0.60
1:A:528:THR:O	1:A:532:GLY:N	2.33	0.60
1:B:172:VAL:O	1:B:173:GLY:O	2.18	0.60
1:B:622:GLN:O	1:B:622:GLN:HG3	2.00	0.60
1:B:709:HIS:N	1:B:710:PRO:CD	2.63	0.60
1:B:1026:PHE:HB3	1:B:1030:ARG:NH2	2.15	0.60
1:A:10:ILE:CD1	1:B:895:TRP:HB2	2.31	0.60
1:A:73:ASP:CB	1:A:106:GLN:HE22	2.14	0.60
1:A:210:GLN:CG	1:A:249:ILE:HG23	2.27	0.60
1:A:594:VAL:HA	1:A:655:PHE:CZ	2.35	0.60
1:A:780:ARG:HH21	1:C:223:PRO:HD2	1.67	0.60
1:B:193:LEU:HD22	1:B:198:LEU:O	2.01	0.60
1:B:413:VAL:CG1	1:B:414:GLU:N	2.63	0.60
1:B:680:PHE:O	1:B:680:PHE:CD1	2.54	0.60
1:C:726:GLN:CD	1:C:812:GLY:HA3	2.26	0.60
1:A:542:LEU:HD23	1:A:1028:VAL:HG11	1.84	0.60
1:A:634:TRP:O	1:A:637:ARG:O	2.18	0.60
1:A:644:VAL:O	1:A:648:THR:HG23	2.01	0.60
1:A:949:ALA:HB1	1:A:1026:PHE:CZ	2.36	0.60
1:A:952:LEU:HD11	1:A:963:ALA:HB1	1.82	0.60
1:B:58:GLN:HA	1:B:62:THR:CB	2.30	0.60
1:B:149:MET:SD	1:B:154:ILE:HG22	2.42	0.60
1:B:573:MET:HE1	1:B:617:PHE:CE2	2.37	0.60
1:C:350:LEU:CD1	1:C:984:LEU:CD2	2.66	0.60
1:A:355:MET:CE	1:A:977:MET:HE1	2.31	0.60
1:A:818:ARG:HD3	1:A:821:GLY:C	2.26	0.60
1:A:1021:PHE:HB3	1:A:1025:PHE:CZ	2.36	0.60
1:B:99:ASP:C	1:B:99:ASP:OD2	2.42	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:184:MET:HB3	1:B:771:VAL:HG22	1.82	0.60
1:B:605:ASN:OD1	1:B:642:ASN:HB3	2.02	0.60
1:B:115:MET:HA	1:B:118:LEU:HD13	1.83	0.60
1:B:184:MET:O	1:B:184:MET:CG	2.50	0.60
1:B:370:ILE:HG22	1:B:370:ILE:O	2.01	0.60
1:B:405:LEU:HD12	1:B:405:LEU:C	2.26	0.60
1:B:569:GLN:OE1	1:B:569:GLN:HA	2.00	0.60
1:C:375:VAL:HB	1:C:405:LEU:HD13	1.82	0.60
1:A:435:MET:HG2	1:A:490:PRO:CB	2.25	0.60
1:B:187:TRP:O	1:B:266:ALA:HA	2.02	0.60
1:B:187:TRP:HZ3	1:B:774:MET:HE3	1.64	0.60
1:C:404:LEU:O	1:C:405:LEU:HD23	2.02	0.60
1:C:1024:VAL:HG12	1:C:1028:VAL:CG2	2.31	0.60
1:A:963:ALA:O	1:A:964:THR:C	2.45	0.60
1:B:534:ILE:HA	1:B:541:TYR:CE1	2.37	0.60
1:C:118:LEU:HD13	1:C:118:LEU:N	2.16	0.60
1:C:1016:VAL:O	1:C:1018:ALA:N	2.31	0.60
1:A:520:PHE:N	1:A:522:LYS:HE3	2.17	0.60
1:A:571:VAL:HG12	1:A:630:SER:CA	2.30	0.60
1:B:62:THR:OG1	1:B:88:VAL:HG11	2.01	0.60
1:B:160:ALA:CB	1:B:767:ARG:CD	2.75	0.60
1:C:229:GLN:O	1:C:230:LEU:CB	2.48	0.60
1:C:284:GLN:HG3	1:C:285:PRO:HD2	1.83	0.60
1:C:380:PHE:CZ	1:C:395:MET:HE1	2.37	0.60
1:C:657:GLN:C	1:C:659:LYS:H	2.09	0.60
1:A:340:VAL:CG1	1:A:399:VAL:CG2	2.80	0.60
1:A:428:LYS:HG3	1:A:429:GLU:N	2.15	0.60
1:B:13:TRP:HA	1:B:13:TRP:HE3	1.67	0.60
1:B:120:GLN:HG2	1:B:124:GLN:HG2	1.84	0.60
1:B:1029:VAL:HG23	1:B:1032:ARG:HD2	1.83	0.60
1:B:314:GLU:H	1:B:315:PRO:CD	2.14	0.60
1:C:177:LEU:HD13	1:C:179:GLY:C	2.27	0.60
1:C:527:TYR:O	1:C:531:VAL:HG13	2.02	0.60
1:A:106:GLN:O	1:A:107:VAL:C	2.42	0.59
1:A:314:GLU:H	1:A:315:PRO:HD3	1.67	0.59
1:A:584:GLN:N	1:A:622:GLN:HB3	2.12	0.59
1:A:726:GLN:N	1:A:810:GLU:O	2.35	0.59
1:A:813:SER:HB3	1:A:816:LEU:CD2	2.28	0.59
1:B:58:GLN:HA	1:B:62:THR:HB	1.83	0.59
1:B:343:THR:O	1:B:347:ALA:N	2.35	0.59
1:B:776:GLU:HG2	1:B:777:ALA:N	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:844:MET:C	1:B:846:GLN:H	2.09	0.59
1:B:916:ALA:HB2	1:B:1005:THR:O	2.02	0.59
1:B:983:ILE:HD13	1:B:1012:VAL:HG12	1.84	0.59
1:C:1:MET:HE3	1:C:439:GLN:HE22	1.65	0.59
1:C:54:ALA:HB2	1:C:84:SER:CB	2.32	0.59
1:A:185:ARG:C	1:A:186:ILE:HG13	2.27	0.59
1:A:277:ILE:O	1:A:277:ILE:CG2	2.49	0.59
1:A:437:GLN:HG2	1:A:948:PHE:CE2	2.36	0.59
1:A:621:GLY:C	1:A:623:ASN:H	2.10	0.59
1:A:993:THR:HG22	1:A:994:GLY:H	1.67	0.59
1:A:1024:VAL:HG12	1:A:1025:PHE:N	2.16	0.59
1:B:199:THR:HB	1:B:749:THR:CG2	2.31	0.59
1:B:988:PRO:C	1:B:990:VAL:H	2.10	0.59
1:C:482:VAL:O	1:C:486:LEU:HG	2.03	0.59
1:A:99:ASP:O	1:A:102:ILE:HG22	2.02	0.59
1:A:379:THR:CG2	1:A:477:ALA:HA	2.33	0.59
1:A:405:LEU:O	1:A:406:VAL:C	2.46	0.59
1:B:541:TYR:C	1:B:543:VAL:H	2.08	0.59
1:B:569:GLN:HG3	1:B:668:LEU:CD1	2.32	0.59
1:B:987:MET:O	1:B:987:MET:HE2	2.02	0.59
1:C:324:VAL:HG23	1:C:326:PRO:HD3	1.85	0.59
1:C:457:ALA:HB1	1:C:468:ARG:CA	2.32	0.59
1:C:897:ILE:CD1	1:C:950:LYS:HD2	2.33	0.59
1:A:687:GLN:HG2	1:C:316:PHE:CG	2.36	0.59
1:A:905:VAL:HB	1:A:906:PRO:HD3	1.84	0.59
1:B:168:ARG:HD3	1:C:69:MET:O	2.00	0.59
1:B:221:GLY:HA3	1:C:780:ARG:NH1	2.18	0.59
1:B:355:MET:HE3	1:B:369:THR:HG23	1.82	0.59
1:B:405:LEU:HD12	1:B:406:VAL:H	1.66	0.59
1:B:410:ILE:C	1:B:412:VAL:H	2.10	0.59
1:B:943:ILE:O	1:B:947:GLU:HB3	2.02	0.59
1:C:326:PRO:O	1:C:327:TYR:C	2.43	0.59
1:C:354:VAL:C	1:C:356:TYR:H	2.11	0.59
1:C:423:GLU:OE1	1:C:426:PRO:HG2	2.03	0.59
1:A:418:ARG:HH21	1:A:970:MET:HA	1.66	0.59
1:A:634:TRP:HE3	1:A:995:ALA:HB1	1.65	0.59
1:A:886:LEU:O	1:A:887:CYS:C	2.46	0.59
1:A:988:PRO:O	1:A:990:VAL:O	2.20	0.59
1:B:35:TYR:HB3	1:B:38:ILE:HG13	1.84	0.59
1:B:602:GLU:CD	1:B:650:ARG:HH21	2.11	0.59
1:B:835:LYS:HB2	1:B:839:GLU:OE2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:914:LEU:O	1:B:917:THR:HB	2.02	0.59
1:C:792:ARG:HB2	1:C:798:MET:CE	2.32	0.59
1:A:781:MET:HE2	1:C:225:VAL:HG22	1.85	0.59
1:A:843:LEU:HA	1:A:846:GLN:NE2	2.17	0.59
1:B:185:ARG:HG3	1:B:185:ARG:NH1	2.16	0.59
1:B:415:ASN:ND2	1:B:438:ILE:HD13	2.17	0.59
1:B:690:LEU:HB2	1:B:694:LYS:CB	2.33	0.59
1:C:102:ILE:O	1:C:105:VAL:N	2.36	0.59
1:C:726:GLN:NE2	1:C:812:GLY:HA3	2.17	0.59
1:A:888:LEU:HD21	1:A:901:VAL:HB	1.84	0.59
1:A:1025:PHE:O	1:A:1029:VAL:HG23	2.03	0.59
1:B:269:GLU:O	1:B:270:LEU:HB2	2.03	0.59
1:B:520:PHE:O	1:B:523:SER:N	2.30	0.59
1:B:598:TYR:HB3	1:B:606:VAL:HG11	1.84	0.59
1:C:110:LYS:HA	1:C:113:LEU:HD12	1.84	0.59
1:C:564:LEU:HD21	1:C:671:ILE:HD12	1.85	0.59
1:A:201:VAL:HG21	1:A:745:ASP:OD2	2.02	0.59
1:A:733:GLN:O	1:A:736:ALA:HB3	2.03	0.59
1:C:144:ASN:ND2	1:C:149:MET:N	2.48	0.59
1:A:342:LYS:O	1:A:343:THR:C	2.45	0.59
1:A:686:ASP:OD1	1:A:690:LEU:HB2	2.03	0.59
1:B:146:ASP:O	1:B:147:GLY:C	2.44	0.59
1:B:642:ASN:N	1:B:650:ARG:HH12	2.01	0.59
1:B:679:GLY:HA2	1:B:830:GLN:HB3	1.85	0.59
1:B:686:ASP:HB3	1:B:823:PRO:O	2.03	0.59
1:C:158:VAL:HG11	1:C:177:LEU:HD21	1.85	0.59
1:C:189:ASN:C	1:C:189:ASN:HD22	2.11	0.59
1:C:425:LEU:N	1:C:426:PRO:HD3	2.18	0.59
1:C:644:VAL:HG11	1:C:667:ASN:CB	2.33	0.59
1:A:58:GLN:NE2	1:A:816:LEU:HD13	2.17	0.58
1:A:166:ILE:HD13	1:A:166:ILE:H	1.63	0.58
1:A:277:ILE:HD13	1:A:277:ILE:C	2.28	0.58
1:A:773:VAL:O	1:A:773:VAL:CG1	2.50	0.58
1:A:813:SER:CB	1:A:816:LEU:HD21	2.30	0.58
1:B:892:TYR:C	1:B:894:SER:H	2.09	0.58
1:B:960:LEU:HD13	1:B:960:LEU:C	2.27	0.58
1:C:65:ILE:HG23	1:C:111:LEU:HD23	1.85	0.58
1:C:786:ILE:O	1:C:786:ILE:CG2	2.50	0.58
1:A:44:THR:CG2	1:A:89:GLN:CG	2.80	0.58
1:A:251:LEU:CD1	1:A:262:LEU:HA	2.31	0.58
1:A:263:ARG:NH2	1:A:263:ARG:CB	2.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:207:ILE:HG21	1:B:759:VAL:HG11	1.85	0.58
1:B:328:ASP:OD2	1:B:330:THR:HB	2.04	0.58
1:B:362:PHE:HA	1:B:365:THR:HG22	1.84	0.58
1:B:552:MET:SD	1:B:909:VAL:HG23	2.44	0.58
1:B:918:PHE:CD1	1:B:919:ARG:HD3	2.39	0.58
1:C:452:VAL:O	1:C:932:LEU:HD13	2.02	0.58
1:C:988:PRO:O	1:C:989:LEU:C	2.45	0.58
1:A:740:GLY:O	1:A:793:ALA:CB	2.50	0.58
1:B:438:ILE:HD12	1:B:971:ARG:NH1	2.18	0.58
1:B:439:GLN:HE21	1:B:486:LEU:HD11	1.68	0.58
1:B:682:PHE:HD1	1:B:859:TRP:CH2	2.21	0.58
1:B:873:ALA:C	1:B:875:SER:H	2.10	0.58
1:C:331:PRO:C	1:C:335:ILE:HD12	2.29	0.58
1:A:1:MET:N	1:A:2:PRO:CD	2.65	0.58
1:A:752:ALA:O	1:A:774:MET:HG3	2.02	0.58
1:B:144:ASN:CB	1:B:320:GLY:O	2.37	0.58
1:B:177:LEU:HD12	1:B:177:LEU:C	2.27	0.58
1:B:198:LEU:HD13	1:B:251:LEU:HD23	1.86	0.58
1:B:366:LEU:O	1:B:369:THR:N	2.36	0.58
1:B:674:LEU:HD23	1:B:675:GLY:N	2.18	0.58
1:B:680:PHE:CD1	1:B:680:PHE:C	2.82	0.58
1:B:921:LEU:HD23	1:B:1005:THR:HG22	1.85	0.58
1:B:946:VAL:HG13	1:B:1026:PHE:CD1	2.39	0.58
1:C:352:PHE:HD1	1:C:369:THR:HG1	1.51	0.58
1:C:418:ARG:CD	1:C:970:MET:CE	2.81	0.58
1:C:914:LEU:O	1:C:915:ALA:HB3	2.03	0.58
1:A:156:ASP:O	1:A:159:ALA:HB3	2.03	0.58
1:A:991:ILE:HG22	1:A:991:ILE:O	2.04	0.58
1:B:3:ASN:H	1:B:6:ILE:CG1	2.16	0.58
1:B:7:ASP:CG	1:B:8:ARG:HH21	2.12	0.58
1:B:646:ALA:O	1:B:647:ILE:C	2.47	0.58
1:B:973:ARG:N	1:B:974:PRO:HD2	2.17	0.58
1:C:131:LYS:HB2	1:C:295:THR:CG2	2.33	0.58
1:C:169:THR:O	1:C:170:SER:C	2.41	0.58
1:C:245:GLU:O	1:C:246:PHE:C	2.47	0.58
1:C:332:PHE:O	1:C:336:SER:HB3	2.03	0.58
1:C:650:ARG:O	1:C:653:ARG:HG2	2.04	0.58
1:C:705:GLU:O	1:C:707:ALA:N	2.36	0.58
1:C:908:GLY:HA2	1:C:1014:ALA:HB2	1.85	0.58
1:A:164:ASP:HA	1:A:167:SER:HB2	1.84	0.58
1:A:568:ASP:O	1:A:634:TRP:CH2	2.57	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:231:ASN:C	1:B:231:ASN:ND2	2.59	0.58
1:B:280:GLU:HB2	1:B:284:GLN:C	2.29	0.58
1:B:414:GLU:O	1:B:973:ARG:HD3	2.04	0.58
1:C:337:ILE:HD13	1:C:337:ILE:C	2.27	0.58
1:C:559:LEU:HD13	1:C:917:THR:HG23	1.86	0.58
1:C:894:SER:CB	1:C:897:ILE:HG13	2.34	0.58
1:C:972:LEU:N	1:C:974:PRO:HD2	2.19	0.58
1:A:61:VAL:C	1:A:65:ILE:CG2	2.75	0.58
1:A:114:ALA:O	1:A:117:LEU:N	2.34	0.58
1:A:139:VAL:HG12	1:A:327:TYR:HB3	1.84	0.58
1:A:819:TYR:N	1:A:824:SER:HB3	2.13	0.58
1:B:104:GLN:HE21	1:B:108:GLN:HE21	1.50	0.58
1:B:418:ARG:HG3	1:B:970:MET:CE	2.28	0.58
1:B:644:VAL:O	1:B:645:GLU:C	2.45	0.58
1:B:729:ILE:CG1	1:B:730:ASP:H	2.08	0.58
1:B:873:ALA:O	1:B:875:SER:N	2.37	0.58
1:C:143:ILE:HG23	1:C:284:GLN:HE22	1.68	0.58
1:C:1010:GLY:HA2	1:C:1013:THR:HG21	1.86	0.58
1:A:112:GLN:HG3	1:A:112:GLN:O	2.02	0.58
1:A:350:LEU:HD11	1:A:984:LEU:CB	2.32	0.58
1:A:568:ASP:CG	1:A:637:ARG:HH12	2.10	0.58
1:B:65:ILE:O	1:B:69:MET:HG2	2.03	0.58
1:C:759:VAL:O	1:C:760:ASN:HB3	2.04	0.58
1:A:298:ASN:O	1:A:299:ALA:C	2.44	0.58
1:A:400:LEU:HG	1:A:929:VAL:CG1	2.32	0.58
1:A:937:LEU:HD12	1:A:1011:MET:SD	2.43	0.58
1:B:18:ILE:HG22	1:B:19:ILE:N	2.19	0.58
1:B:281:PHE:CE1	1:B:608:SER:HB2	2.39	0.58
1:B:328:ASP:OD2	1:B:328:ASP:C	2.46	0.58
1:B:680:PHE:O	1:B:680:PHE:HD1	1.85	0.58
1:C:33:ALA:HB2	1:C:298:ASN:ND2	2.18	0.58
1:C:50:PRO:CD	1:C:125:GLN:HG3	2.34	0.58
1:C:74:ASN:HB3	1:C:95:GLU:HB2	1.86	0.58
1:C:144:ASN:HD21	1:C:149:MET:N	1.99	0.58
1:A:348:ILE:HD11	1:A:372:VAL:CG1	2.34	0.58
1:A:413:VAL:HG23	1:A:493:CYS:HB2	1.86	0.58
1:A:1015:THR:C	1:A:1017:LEU:H	2.11	0.58
1:B:124:GLN:O	1:B:125:GLN:HB2	2.04	0.58
1:B:1017:LEU:N	1:B:1017:LEU:HD12	2.18	0.58
1:C:2:PRO:C	1:C:6:ILE:HG13	2.28	0.58
1:C:590:VAL:O	1:C:594:VAL:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:894:SER:OG	1:C:897:ILE:N	2.25	0.58
1:C:953:MET:SD	1:C:963:ALA:CB	2.92	0.58
1:A:350:LEU:CD1	1:A:984:LEU:HB2	2.34	0.57
1:A:464:GLY:HA2	1:A:467:TYR:HB2	1.86	0.57
1:B:401:ALA:HA	1:B:404:LEU:HB2	1.85	0.57
1:B:545:TYR:C	1:B:547:ILE:N	2.59	0.57
1:B:639:GLY:HA2	1:B:643:LYS:NZ	2.19	0.57
1:B:929:VAL:O	1:B:933:THR:OG1	2.17	0.57
1:C:576:VAL:HG12	1:C:663:VAL:CG2	2.24	0.57
1:A:2:PRO:O	1:A:6:ILE:HG23	2.04	0.57
1:A:719:ASN:HB2	1:A:828:LEU:CD2	2.33	0.57
1:B:183:ALA:H	1:B:272:GLY:HA2	1.68	0.57
1:B:441:ALA:O	1:B:445:ILE:HG13	2.03	0.57
1:B:699:ARG:CG	1:B:700:ASN:N	2.67	0.57
1:C:358:PHE:CG	1:C:977:MET:HE2	2.39	0.57
1:A:783:PRO:C	1:A:784:ASP:O	2.46	0.57
1:B:456:MET:HG3	1:B:467:TYR:CB	2.26	0.57
1:B:1010:GLY:HA2	1:B:1013:THR:CG2	2.35	0.57
1:C:211:ASN:C	1:C:211:ASN:HD22	2.13	0.57
1:C:415:ASN:ND2	1:C:434:SER:CB	2.62	0.57
1:A:946:VAL:O	1:A:946:VAL:HG12	2.03	0.57
1:B:350:LEU:HD12	1:B:984:LEU:O	2.03	0.57
1:B:445:ILE:CG2	1:B:940:LYS:HG3	2.28	0.57
1:B:975:ILE:O	1:B:979:SER:HB2	2.05	0.57
1:B:986:VAL:HG12	1:B:990:VAL:HG23	1.85	0.57
1:B:1021:PHE:O	1:B:1025:PHE:CD1	2.57	0.57
1:C:417:GLU:CB	1:C:973:ARG:HH12	2.16	0.57
1:C:844:MET:O	1:C:847:LEU:CD2	2.52	0.57
1:A:193:LEU:HA	1:A:265:VAL:HG13	1.86	0.57
1:A:543:VAL:HG22	1:A:544:LEU:N	2.20	0.57
1:B:705:GLU:C	1:B:707:ALA:O	2.47	0.57
1:B:987:MET:CE	1:B:987:MET:CA	2.66	0.57
1:C:190:PRO:CG	1:C:789:TRP:CZ2	2.83	0.57
1:C:593:GLU:O	1:C:597:TYR:N	2.28	0.57
1:C:719:ASN:OD1	1:C:719:ASN:N	2.37	0.57
1:C:728:LYS:CG	1:C:729:ILE:N	2.68	0.57
1:C:897:ILE:HD13	1:C:950:LYS:HD2	1.86	0.57
1:C:953:MET:HE3	1:C:1030:ARG:HH12	1.69	0.57
1:A:947:GLU:O	1:A:950:LYS:O	2.22	0.57
1:B:330:THR:N	1:B:331:PRO:HD2	2.19	0.57
1:B:472:ILE:HG23	1:B:473:THR:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:729:ILE:O	1:B:730:ASP:HB2	2.04	0.57
1:C:156:ASP:O	1:C:157:TYR:C	2.47	0.57
1:C:197:GLN:CB	1:C:798:MET:HE3	2.32	0.57
1:C:204:ILE:HG12	1:C:759:VAL:HG13	1.85	0.57
1:C:380:PHE:CE2	1:C:395:MET:HE1	2.40	0.57
1:C:400:LEU:HG	1:C:929:VAL:HG12	1.85	0.57
1:C:997:SER:O	1:C:999:ALA:N	2.37	0.57
1:A:10:ILE:HG21	1:B:893:GLU:HB2	1.87	0.57
1:B:114:ALA:O	1:B:115:MET:C	2.47	0.57
1:B:280:GLU:CA	1:B:284:GLN:O	2.52	0.57
1:B:836:SER:OG	1:B:838:GLY:N	2.38	0.57
1:B:873:ALA:HB3	1:B:874:PRO:CD	2.35	0.57
1:B:936:GLY:O	1:B:937:LEU:C	2.47	0.57
1:C:115:MET:N	1:C:116:PRO:CD	2.67	0.57
1:C:391:ASN:N	1:C:394:THR:CG2	2.67	0.57
1:C:520:PHE:O	1:C:523:SER:N	2.37	0.57
1:C:681:ASP:OD2	1:C:828:LEU:HD11	2.05	0.57
1:C:868:LEU:O	1:C:868:LEU:HD13	2.04	0.57
1:A:702:LEU:HD11	1:A:844:MET:CE	2.34	0.57
1:A:800:PRO:O	1:A:803:ALA:HB3	2.05	0.57
1:C:254:ASN:OD1	1:C:258:SER:O	2.22	0.57
1:C:697:GLN:O	1:C:698:ALA:C	2.44	0.57
1:C:699:ARG:O	1:C:700:ASN:C	2.48	0.57
1:A:29:LYS:HG2	1:A:29:LYS:O	2.04	0.57
1:A:330:THR:HG22	1:A:331:PRO:N	2.18	0.57
1:A:418:ARG:HH12	1:A:973:ARG:CB	2.18	0.57
1:A:644:VAL:C	1:A:646:ALA:N	2.60	0.57
1:B:24:GLY:CA	1:B:27:ILE:HG23	2.35	0.57
1:B:92:LEU:HD22	1:B:92:LEU:N	2.19	0.57
1:B:697:GLN:O	1:B:698:ALA:C	2.47	0.57
1:B:732:ASP:O	1:B:734:GLU:N	2.38	0.57
1:B:860:THR:CG2	1:B:861:GLY:N	2.67	0.57
1:C:484:VAL:HG13	1:C:488:LEU:HB3	1.87	0.57
1:C:764:ASP:OD2	1:C:765:ARG:HD2	2.05	0.57
1:A:445:ILE:HG22	1:A:943:ILE:HD13	1.86	0.57
1:A:489:THR:HB	1:A:490:PRO:HD3	1.87	0.57
1:A:822:LEU:O	1:A:823:PRO:C	2.48	0.57
1:A:990:VAL:O	1:A:991:ILE:HB	2.05	0.57
1:A:993:THR:HG21	1:A:1000:GLN:OE1	2.05	0.57
1:B:188:MET:HE2	1:B:188:MET:HA	1.86	0.57
1:B:356:TYR:CE2	1:B:365:THR:HG21	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:523:SER:O	1:B:526:HIS:HB2	2.05	0.57
1:B:543:VAL:O	1:B:543:VAL:HG12	2.04	0.57
1:B:560:PRO:CB	1:B:836:SER:HB3	2.33	0.57
1:B:792:ARG:CB	1:B:798:MET:CE	2.82	0.57
1:C:8:ARG:HG2	1:C:8:ARG:HH21	1.70	0.57
1:A:172:VAL:HG23	1:A:172:VAL:O	2.05	0.56
1:A:522:LYS:HE2	1:A:522:LYS:N	2.20	0.56
1:A:635:ALA:C	1:A:637:ARG:N	2.60	0.56
1:A:729:ILE:HD13	1:C:234:ILE:HG23	1.86	0.56
1:A:971:ARG:HE	1:A:974:PRO:HG2	1.69	0.56
1:B:143:ILE:HD12	1:B:322:LYS:HB3	1.86	0.56
1:B:143:ILE:HG23	1:B:286:ALA:HB2	1.87	0.56
1:B:219:LEU:CD1	1:B:234:ILE:HG12	2.29	0.56
1:B:546:LEU:O	1:B:550:VAL:HB	2.04	0.56
1:C:131:LYS:HB2	1:C:295:THR:HG21	1.86	0.56
1:C:463:THR:O	1:C:466:ILE:HD12	2.05	0.56
1:C:758:TYR:CG	1:C:758:TYR:O	2.57	0.56
1:C:777:ALA:O	1:C:779:TYR:N	2.38	0.56
1:C:965:LEU:HG	1:C:966:ASP:N	2.20	0.56
1:A:55:LYS:HD3	1:A:816:LEU:HD11	1.87	0.56
1:A:133:SER:HB3	1:A:136:PHE:CD1	2.40	0.56
1:A:313:MET:C	1:A:315:PRO:CD	2.77	0.56
1:A:736:ALA:HA	1:A:741:VAL:CG1	2.35	0.56
1:B:2:PRO:C	1:B:4:PHE:H	2.13	0.56
1:B:174:ASP:OD1	1:B:175:VAL:N	2.38	0.56
1:B:439:GLN:NE2	1:B:486:LEU:HD11	2.21	0.56
1:C:576:VAL:HG21	1:C:591:LEU:HD22	1.87	0.56
1:C:615:PHE:CD2	1:C:615:PHE:O	2.58	0.56
1:C:713:LEU:CD1	1:C:835:LYS:H	2.16	0.56
1:A:113:LEU:CD1	1:C:108:GLN:HE22	2.18	0.56
1:A:171:GLY:O	1:A:294:ALA:HB2	2.05	0.56
1:A:200:PRO:HG2	1:A:749:THR:CA	2.29	0.56
1:A:223:PRO:CD	1:B:275:TYR:CD2	2.85	0.56
1:A:391:ASN:H	1:A:394:THR:HG22	1.70	0.56
1:A:455:PRO:HB2	1:A:877:TYR:HE1	1.70	0.56
1:A:536:ARG:H	1:A:536:ARG:HD2	1.70	0.56
1:A:607:GLU:HG2	1:A:632:LYS:HG2	1.87	0.56
1:A:671:ILE:O	1:A:672:VAL:C	2.47	0.56
1:A:965:LEU:C	1:A:969:ARG:HG3	2.27	0.56
1:A:999:ALA:HA	1:A:1002:ALA:HB3	1.88	0.56
1:B:413:VAL:CG1	1:B:414:GLU:H	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:431:THR:OG1	1:B:494:ALA:HB2	2.05	0.56
1:B:589:LYS:O	1:B:592:ASN:HB2	2.05	0.56
1:B:659:LYS:HD3	1:B:659:LYS:C	2.30	0.56
1:B:945:ILE:CG1	1:B:1026:PHE:CE2	2.87	0.56
1:B:986:VAL:HG12	1:B:990:VAL:CG2	2.34	0.56
1:B:1017:LEU:H	1:B:1017:LEU:CD1	2.18	0.56
1:C:449:LEU:HB2	1:C:478:MET:HE3	1.87	0.56
1:C:568:ASP:OD1	1:C:634:TRP:CD1	2.58	0.56
1:C:663:VAL:O	1:C:664:PHE:HB3	2.05	0.56
1:C:1022:VAL:O	1:C:1023:PRO:C	2.47	0.56
1:A:282:ASN:ND2	1:A:599:LEU:HD11	2.20	0.56
1:A:330:THR:O	1:A:331:PRO:C	2.49	0.56
1:A:991:ILE:CD1	1:A:1008:MET:CG	2.83	0.56
1:B:188:MET:HE1	1:B:203:VAL:HG11	1.85	0.56
1:B:358:PHE:HZ	1:B:976:LEU:HD12	1.71	0.56
1:B:989:LEU:HA	1:B:992:SER:HB2	1.87	0.56
1:C:220:GLY:CA	1:C:231:ASN:HD22	2.16	0.56
1:C:536:ARG:C	1:C:538:THR:H	2.13	0.56
1:C:695:LEU:O	1:C:696:THR:O	2.24	0.56
1:A:255:GLN:O	1:A:256:ASP:OD1	2.23	0.56
1:A:370:ILE:CG2	1:A:370:ILE:O	2.54	0.56
1:A:455:PRO:O	1:A:458:PHE:HB2	2.05	0.56
1:A:536:ARG:C	1:A:538:THR:H	2.14	0.56
1:A:634:TRP:CD1	1:A:634:TRP:H	2.23	0.56
1:B:25:LEU:O	1:B:28:LEU:HG	2.05	0.56
1:B:310:LEU:O	1:B:314:GLU:HG3	2.05	0.56
1:B:600:THR:CB	1:B:601:LYS:HZ1	2.17	0.56
1:B:671:ILE:O	1:B:673:GLU:HB2	2.05	0.56
1:B:699:ARG:HB3	1:B:699:ARG:HH11	1.71	0.56
1:C:56:THR:O	1:C:60:THR:HB	2.06	0.56
1:C:146:ASP:HB2	1:C:148:THR:OG1	2.05	0.56
1:C:181:GLN:OE1	1:C:767:ARG:NE	2.38	0.56
1:C:277:ILE:CD1	1:C:620:ARG:NH2	2.66	0.56
1:A:199:THR:HB	1:A:200:PRO:HD2	1.88	0.56
1:A:443:VAL:CG1	1:A:444:GLY:H	2.02	0.56
1:A:481:SER:O	1:A:484:VAL:N	2.38	0.56
1:B:235:ILE:H	1:B:235:ILE:CD1	2.08	0.56
1:B:378:GLY:O	1:B:381:ALA:HB3	2.06	0.56
1:B:395:MET:O	1:B:396:PHE:C	2.49	0.56
1:B:775:SER:CB	1:B:780:ARG:HG3	2.35	0.56
1:B:907:LEU:O	1:B:909:VAL:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:960:LEU:CD1	1:B:961:ILE:N	2.68	0.56
1:C:4:PHE:CD2	1:C:8:ARG:NH1	2.73	0.56
1:C:34:GLN:HA	1:C:333:VAL:HG11	1.86	0.56
1:C:644:VAL:HG12	1:C:667:ASN:HB2	1.86	0.56
1:C:983:ILE:CG2	1:C:1008:MET:HG3	2.34	0.56
1:A:527:TYR:O	1:A:530:SER:OG	2.17	0.56
1:A:952:LEU:HD12	1:A:952:LEU:C	2.31	0.56
1:B:380:PHE:CE1	1:B:398:MET:HE2	2.41	0.56
1:A:10:ILE:HG12	1:B:893:GLU:O	2.05	0.56
1:A:114:ALA:O	1:A:115:MET:C	2.48	0.56
1:A:223:PRO:HD3	1:B:275:TYR:CB	2.36	0.56
1:B:179:GLY:N	1:B:277:ILE:HG21	2.21	0.56
1:B:349:ILE:HG22	1:B:350:LEU:HD23	1.88	0.56
1:C:5:PHE:CE2	1:C:11:PHE:HD2	2.23	0.56
1:C:34:GLN:O	1:C:35:TYR:CD2	2.59	0.56
1:C:39:ALA:HB2	1:C:673:GLU:CB	2.36	0.56
1:C:159:ALA:O	1:C:160:ALA:C	2.44	0.56
1:C:184:MET:HA	1:C:184:MET:CE	2.28	0.56
1:C:204:ILE:HG13	1:C:773:VAL:HG11	1.86	0.56
1:C:308:ALA:O	1:C:311:ALA:HB3	2.05	0.56
1:A:11:PHE:CE1	1:B:890:ALA:HB1	2.40	0.56
1:A:72:ILE:N	1:A:72:ILE:HD12	2.20	0.56
1:B:4:PHE:O	1:B:5:PHE:HB2	2.05	0.56
1:B:49:TYR:CD1	1:B:122:VAL:HG22	2.41	0.56
1:B:105:VAL:O	1:B:109:ASN:N	2.32	0.56
1:C:409:ALA:O	1:C:413:VAL:HG12	2.05	0.56
1:C:418:ARG:NE	1:C:970:MET:HE2	2.21	0.56
1:C:449:LEU:CB	1:C:478:MET:HE1	2.36	0.56
1:C:948:PHE:O	1:C:952:LEU:HB2	2.06	0.56
1:A:1:MET:H3	1:A:2:PRO:HD2	1.70	0.56
1:A:741:VAL:O	1:A:741:VAL:HG13	2.05	0.56
1:B:457:ALA:C	1:B:459:PHE:H	2.13	0.56
1:C:166:ILE:CA	1:C:166:ILE:CG2	2.77	0.56
1:C:577:GLN:HB3	1:C:624:THR:CG2	2.36	0.56
1:C:924:ASP:O	1:C:925:VAL:O	2.23	0.56
1:A:11:PHE:C	1:A:13:TRP:H	2.14	0.55
1:A:113:LEU:CD2	1:C:127:VAL:O	2.54	0.55
1:A:298:ASN:HD22	1:A:300:LEU:N	2.04	0.55
1:A:400:LEU:HD11	1:A:1003:VAL:HG13	1.84	0.55
1:A:982:PHE:O	1:A:985:GLY:N	2.39	0.55
1:B:355:MET:CE	1:B:369:THR:CG2	2.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1026:PHE:HB3	1:B:1030:ARG:NE	2.20	0.55
1:C:546:LEU:O	1:C:550:VAL:HG12	2.07	0.55
1:C:598:TYR:HD2	1:C:606:VAL:HG21	1.71	0.55
1:A:58:GLN:HE22	1:A:816:LEU:HD13	1.71	0.55
1:A:572:PHE:N	1:A:572:PHE:CD1	2.74	0.55
1:A:753:ALA:O	1:A:774:MET:HG2	2.07	0.55
1:A:758:TYR:O	1:A:758:TYR:CG	2.55	0.55
1:B:115:MET:HE1	1:B:118:LEU:HD22	1.88	0.55
1:B:341:VAL:HG23	1:B:395:MET:CE	2.36	0.55
1:B:435:MET:HA	1:B:435:MET:CE	2.36	0.55
1:B:937:LEU:O	1:B:940:LYS:HB3	2.06	0.55
1:B:969:ARG:HG2	1:B:969:ARG:HH11	1.70	0.55
1:C:57:VAL:HB	1:C:58:GLN:HE21	1.70	0.55
1:C:247:GLY:HA3	1:C:263:ARG:HE	1.68	0.55
1:C:248:LYS:O	1:C:249:ILE:C	2.48	0.55
1:C:912:ALA:C	1:C:914:LEU:N	2.65	0.55
1:A:9:PRO:HD2	1:A:10:ILE:H	1.72	0.55
1:A:375:VAL:HG21	1:A:481:SER:HA	1.88	0.55
1:A:818:ARG:HB2	1:A:823:PRO:HA	1.88	0.55
1:A:841:MET:O	1:A:845:GLU:HG3	2.07	0.55
1:A:999:ALA:HA	1:A:1002:ALA:CB	2.36	0.55
1:B:213:GLN:C	1:B:214:VAL:HG23	2.31	0.55
1:B:399:VAL:HG12	1:B:400:LEU:N	2.20	0.55
1:B:964:THR:O	1:B:968:VAL:HG23	2.05	0.55
1:C:188:MET:HE1	1:C:200:PRO:HA	1.88	0.55
1:C:305:ALA:O	1:C:306:ILE:C	2.48	0.55
1:C:321:LEU:C	1:C:321:LEU:HD13	2.31	0.55
1:C:391:ASN:H	1:C:394:THR:CG2	2.18	0.55
1:C:997:SER:HA	1:C:1000:GLN:OE1	2.07	0.55
1:A:214:VAL:HG23	1:A:237:GLN:HB3	1.87	0.55
1:A:726:GLN:HG2	1:A:810:GLU:O	2.07	0.55
1:B:314:GLU:O	1:B:316:PHE:N	2.40	0.55
1:B:674:LEU:HD13	1:B:860:THR:HG22	1.84	0.55
1:B:896:SER:HA	1:B:899:PHE:HD2	1.71	0.55
1:C:34:GLN:HA	1:C:333:VAL:CG1	2.36	0.55
1:C:545:TYR:OH	1:C:1021:PHE:HB3	2.05	0.55
1:C:572:PHE:CZ	1:C:629:VAL:HG11	2.41	0.55
1:A:348:ILE:O	1:A:349:ILE:C	2.47	0.55
1:A:425:LEU:HB3	1:A:426:PRO:HD2	1.88	0.55
1:A:593:GLU:O	1:A:594:VAL:C	2.46	0.55
1:B:36:PRO:HD2	1:B:38:ILE:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:118:LEU:O	1:B:119:PRO:C	2.50	0.55
1:B:702:LEU:C	1:B:703:LEU:O	2.50	0.55
1:B:1007:VAL:O	1:B:1007:VAL:HG22	2.06	0.55
1:C:379:THR:CG2	1:C:477:ALA:HB2	2.35	0.55
1:C:428:LYS:O	1:C:432:ARG:HB2	2.06	0.55
1:C:530:SER:O	1:C:534:ILE:CG2	2.54	0.55
1:A:44:THR:HA	1:A:91:THR:HA	1.87	0.55
1:A:309:GLU:O	1:A:313:MET:HG2	2.06	0.55
1:A:756:GLY:CA	1:A:774:MET:HG3	2.37	0.55
1:A:973:ARG:N	1:A:974:PRO:CD	2.69	0.55
1:B:7:ASP:O	1:B:8:ARG:CB	2.55	0.55
1:B:452:VAL:O	1:B:453:PHE:CB	2.55	0.55
1:C:204:ILE:HG12	1:C:759:VAL:CG1	2.37	0.55
1:C:545:TYR:CZ	1:C:1025:PHE:CZ	2.94	0.55
1:C:672:VAL:O	1:C:672:VAL:HG12	2.05	0.55
1:C:889:ALA:O	1:C:890:ALA:C	2.50	0.55
1:A:425:LEU:H	1:A:425:LEU:CD1	2.18	0.55
1:B:68:ASN:O	1:B:70:ASN:N	2.37	0.55
1:B:207:ILE:CG2	1:B:759:VAL:HG11	2.37	0.55
1:B:224:PRO:O	1:B:224:PRO:CD	2.54	0.55
1:B:404:LEU:HD13	1:B:449:LEU:CD1	2.31	0.55
1:B:1022:VAL:CG2	1:B:1023:PRO:CD	2.83	0.55
1:C:536:ARG:HH21	1:C:536:ARG:HG2	1.71	0.55
1:C:703:LEU:O	1:C:706:ALA:HB3	2.06	0.55
1:C:758:TYR:HD1	1:C:758:TYR:N	2.02	0.55
1:C:758:TYR:HD2	1:C:770:LYS:HE2	1.70	0.55
1:A:298:ASN:HD21	1:A:300:LEU:H	1.54	0.55
1:A:455:PRO:HB2	1:A:877:TYR:CE1	2.42	0.55
1:A:764:ASP:HB3	1:A:769:LYS:HD2	1.88	0.55
1:B:191:ASN:O	1:B:194:ASN:HB3	2.06	0.55
1:B:330:THR:N	1:B:331:PRO:CD	2.70	0.55
1:B:472:ILE:HG23	1:B:473:THR:N	2.21	0.55
1:B:946:VAL:HG22	1:B:1026:PHE:HZ	1.55	0.55
1:B:983:ILE:HG23	1:B:1008:MET:HG2	1.88	0.55
1:C:355:MET:N	1:C:355:MET:HE3	2.22	0.55
1:A:280:GLU:HB2	1:A:284:GLN:O	2.07	0.55
1:A:542:LEU:CD2	1:A:1028:VAL:HG11	2.37	0.55
1:B:18:ILE:O	1:B:19:ILE:C	2.49	0.55
1:B:470:PHE:CE2	1:B:929:VAL:HG21	2.41	0.55
1:B:762:PHE:HE1	1:B:764:ASP:HB2	1.72	0.55
1:B:927:PHE:CZ	1:B:931:LEU:HD21	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:26:ALA:O	1:C:30:LEU:CG	2.53	0.55
1:C:188:MET:HE1	1:C:200:PRO:CA	2.37	0.55
1:C:768:VAL:C	1:C:769:LYS:HG2	2.30	0.55
1:A:255:GLN:N	1:A:255:GLN:OE1	2.40	0.55
1:A:515:TRP:C	1:A:515:TRP:CD1	2.85	0.55
1:A:528:THR:HG21	1:A:969:ARG:NE	2.17	0.55
1:B:6:ILE:HA	1:B:491:ALA:CA	2.37	0.55
1:B:13:TRP:O	1:B:17:ILE:HG12	2.06	0.55
1:B:350:LEU:HD13	1:B:984:LEU:CD1	2.37	0.55
1:B:547:ILE:O	1:B:550:VAL:O	2.25	0.55
1:B:638:PRO:HG2	1:B:639:GLY:H	1.72	0.55
1:C:111:LEU:C	1:C:111:LEU:HD13	2.32	0.55
1:C:355:MET:HA	1:C:355:MET:CE	2.37	0.55
1:C:416:VAL:O	1:C:420:MET:HE2	2.07	0.55
1:C:436:GLY:C	1:C:438:ILE:H	2.15	0.55
1:C:598:TYR:CD2	1:C:606:VAL:HG21	2.42	0.55
1:C:717:ARG:HH12	1:C:829:GLY:HA2	1.71	0.55
1:A:150:THR:O	1:A:151:GLN:C	2.50	0.54
1:A:481:SER:OG	1:A:482:VAL:N	2.38	0.54
1:A:644:VAL:O	1:A:646:ALA:N	2.40	0.54
1:B:157:TYR:C	1:B:161:ASN:HD22	2.15	0.54
1:B:226:LYS:HE3	1:B:226:LYS:CA	2.19	0.54
1:B:425:LEU:HB3	1:B:498:LYS:O	2.06	0.54
1:B:429:GLU:HA	1:B:432:ARG:HB3	1.87	0.54
1:B:940:LYS:HZ1	1:B:978:THR:CG2	2.20	0.54
1:B:961:ILE:O	1:B:965:LEU:HB2	2.07	0.54
1:A:228:GLN:HG2	1:B:781:MET:CG	2.32	0.54
1:A:307:ARG:NH1	1:A:325:TYR:CE2	2.75	0.54
1:A:309:GLU:O	1:A:311:ALA:O	2.25	0.54
1:B:45:ILE:HD13	1:B:69:MET:HE3	1.89	0.54
1:B:921:LEU:H	1:B:921:LEU:CD1	2.19	0.54
1:B:940:LYS:HZ2	1:B:978:THR:HG23	1.72	0.54
1:C:166:ILE:CA	1:C:166:ILE:CG1	2.77	0.54
1:C:192:GLU:C	1:C:194:ASN:N	2.64	0.54
1:C:448:VAL:HG12	1:C:448:VAL:O	2.07	0.54
1:C:449:LEU:HB2	1:C:478:MET:HE1	1.89	0.54
1:C:674:LEU:C	1:C:674:LEU:CD1	2.79	0.54
1:C:688:ALA:O	1:C:690:LEU:N	2.40	0.54
1:C:939:ALA:O	1:C:943:ILE:CG1	2.55	0.54
1:A:300:LEU:HD22	1:A:334:LYS:HG3	1.88	0.54
1:A:445:ILE:HD13	1:A:940:LYS:CE	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:70:ASN:ND2	1:B:70:ASN:N	2.56	0.54
1:B:218:GLN:HA	1:B:234:ILE:HG13	1.88	0.54
1:B:367:ILE:HG12	1:B:492:LEU:HD13	1.90	0.54
1:B:639:GLY:O	1:B:641:GLU:HG3	2.07	0.54
1:B:864:TYR:CD1	1:B:864:TYR:C	2.85	0.54
1:B:915:ALA:C	1:B:917:THR:H	2.15	0.54
1:C:331:PRO:O	1:C:335:ILE:HD12	2.08	0.54
1:C:485:ALA:O	1:C:490:PRO:HD3	2.08	0.54
1:C:637:ARG:HB3	1:C:642:ASN:CB	2.37	0.54
1:C:666:PHE:CD2	1:C:666:PHE:N	2.75	0.54
1:C:713:LEU:HG	1:C:832:ALA:C	2.30	0.54
1:C:858:ASP:OD1	1:C:859:TRP:N	2.39	0.54
1:A:171:GLY:O	1:A:173:GLY:N	2.41	0.54
1:A:281:PHE:N	1:A:284:GLN:O	2.38	0.54
1:A:284:GLN:HE21	1:A:284:GLN:HA	1.73	0.54
1:A:818:ARG:HA	1:A:824:SER:H	1.73	0.54
1:B:399:VAL:O	1:B:400:LEU:C	2.50	0.54
1:B:976:LEU:O	1:B:980:LEU:HD12	2.07	0.54
1:B:987:MET:N	1:B:988:PRO:CD	2.70	0.54
1:C:92:LEU:N	1:C:92:LEU:CD1	2.68	0.54
1:C:946:VAL:O	1:C:946:VAL:CG1	2.56	0.54
1:A:28:LEU:CD1	1:A:28:LEU:H	2.20	0.54
1:A:463:THR:C	1:A:465:ALA:N	2.65	0.54
1:A:544:LEU:O	1:A:547:ILE:HB	2.06	0.54
1:A:759:VAL:HG12	1:A:760:ASN:N	2.21	0.54
1:B:438:ILE:CD1	1:B:971:ARG:NH1	2.70	0.54
1:B:493:CYS:O	1:B:494:ALA:CB	2.54	0.54
1:B:605:ASN:HD21	1:B:642:ASN:ND2	2.05	0.54
1:B:911:GLY:HA3	1:B:1013:THR:CG2	2.22	0.54
1:C:49:TYR:HB3	1:C:52:ALA:HB3	1.89	0.54
1:C:414:GLU:OE1	1:C:977:MET:CE	2.55	0.54
1:C:758:TYR:HB3	1:C:772:TYR:CD2	2.42	0.54
1:A:61:VAL:C	1:A:65:ILE:HG22	2.25	0.54
1:A:190:PRO:HG3	1:A:789:TRP:CZ2	2.43	0.54
1:A:418:ARG:NH2	1:A:970:MET:HA	2.23	0.54
1:A:904:VAL:HG21	1:A:942:ALA:HB2	1.88	0.54
1:A:911:GLY:N	1:A:914:LEU:HD13	2.23	0.54
1:B:325:TYR:O	1:B:326:PRO:O	2.25	0.54
1:B:639:GLY:HA2	1:B:643:LYS:HZ3	1.72	0.54
1:C:346:GLU:O	1:C:349:ILE:HB	2.08	0.54
1:C:419:VAL:HA	1:C:422:GLU:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:801:PHE:HA	1:C:804:PHE:CZ	2.43	0.54
1:C:850:LYS:O	1:C:851:LEU:O	2.25	0.54
1:C:945:ILE:HG23	1:C:1022:VAL:HG11	1.90	0.54
1:A:66:GLU:O	1:A:68:ASN:N	2.40	0.54
1:A:988:PRO:C	1:A:990:VAL:N	2.62	0.54
1:C:4:PHE:CB	1:C:8:ARG:NH2	2.68	0.54
1:C:118:LEU:N	1:C:118:LEU:CD1	2.69	0.54
1:C:321:LEU:C	1:C:321:LEU:CD1	2.79	0.54
1:C:687:GLN:HG2	1:C:856:GLY:H	1.72	0.54
1:C:1017:LEU:O	1:C:1017:LEU:CD2	2.49	0.54
1:A:5:PHE:HD1	1:A:12:ALA:HB2	1.61	0.54
1:A:18:ILE:O	1:A:21:LEU:N	2.40	0.54
1:A:28:LEU:H	1:A:28:LEU:HD13	1.72	0.54
1:A:443:VAL:CG1	1:A:444:GLY:N	2.64	0.54
1:A:534:ILE:HD12	1:A:540:ARG:NH2	2.23	0.54
1:A:832:ALA:O	1:A:833:PRO:C	2.49	0.54
1:B:178:PHE:C	1:B:277:ILE:HG21	2.32	0.54
1:B:762:PHE:CE1	1:B:764:ASP:HB2	2.42	0.54
1:B:897:ILE:HG13	1:B:898:PRO:CD	2.37	0.54
1:C:356:TYR:C	1:C:358:PHE:H	2.16	0.54
1:C:578:LEU:HB3	1:C:579:PRO:CD	2.35	0.54
1:C:705:GLU:O	1:C:706:ALA:C	2.51	0.54
1:A:568:ASP:OD1	1:A:634:TRP:CZ3	2.61	0.54
1:A:971:ARG:C	1:A:974:PRO:CD	2.78	0.54
1:B:104:GLN:O	1:B:107:VAL:N	2.41	0.54
1:B:735:LYS:O	1:B:738:ALA:HB3	2.08	0.54
1:B:850:LYS:CA	1:B:852:PRO:HD3	2.38	0.54
1:C:5:PHE:HA	1:C:8:ARG:O	2.07	0.54
1:C:634:TRP:O	1:C:637:ARG:N	2.29	0.54
1:C:695:LEU:O	1:C:696:THR:C	2.51	0.54
1:C:832:ALA:HB1	1:C:833:PRO:HD2	1.90	0.54
1:C:909:VAL:HG12	1:C:931:LEU:CD1	2.38	0.54
1:A:42:ALA:O	1:A:43:VAL:HG23	2.08	0.54
1:A:574:THR:HG22	1:A:665:ALA:HB2	1.90	0.54
1:A:857:TYR:C	1:A:857:TYR:CD1	2.86	0.54
1:A:925:VAL:HA	1:A:928:GLN:NE2	2.23	0.54
1:B:43:VAL:HG23	1:B:94:PHE:HE2	1.72	0.54
1:B:140:VAL:CG1	1:B:291:ILE:HD12	2.38	0.54
1:B:317:PHE:CD1	1:B:321:LEU:HD23	2.43	0.54
1:B:533:GLY:O	1:B:537:SER:OG	2.24	0.54
1:C:423:GLU:HB3	1:C:426:PRO:HG3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:456:MET:HE3	1:C:932:LEU:CD1	2.38	0.54
1:A:46:SER:HA	1:A:88:VAL:O	2.08	0.53
1:A:62:THR:O	1:A:62:THR:HG22	2.02	0.53
1:A:185:ARG:NH2	1:A:774:MET:HE2	2.23	0.53
1:B:58:GLN:HB2	1:B:82:SER:CB	2.38	0.53
1:B:146:ASP:O	1:B:148:THR:N	2.41	0.53
1:B:150:THR:O	1:B:151:GLN:C	2.50	0.53
1:B:737:GLN:O	1:B:737:GLN:HG2	2.07	0.53
1:B:888:LEU:HB2	1:B:898:PRO:HB3	1.90	0.53
1:C:457:ALA:CB	1:C:468:ARG:CA	2.86	0.53
1:C:578:LEU:HD21	1:C:590:VAL:HG21	1.89	0.53
1:C:643:LYS:O	1:C:647:ILE:CG1	2.56	0.53
1:C:713:LEU:HD12	1:C:834:GLY:HA3	1.89	0.53
1:A:83:ASP:OD1	1:A:83:ASP:C	2.52	0.53
1:A:164:ASP:OD1	1:A:164:ASP:N	2.41	0.53
1:A:478:MET:SD	1:A:478:MET:C	2.91	0.53
1:A:533:GLY:O	1:A:535:LEU:HB2	2.08	0.53
1:A:568:ASP:CB	1:A:634:TRP:HZ3	2.15	0.53
1:A:699:ARG:NH2	1:A:722:GLU:OE1	2.38	0.53
1:A:729:ILE:HD13	1:C:234:ILE:CG2	2.39	0.53
1:B:95:GLU:O	1:B:98:THR:HB	2.08	0.53
1:B:344:LEU:O	1:B:345:VAL:C	2.50	0.53
1:B:701:GLN:OE1	1:B:851:LEU:HD11	2.08	0.53
1:B:899:PHE:O	1:B:903:LEU:HG	2.08	0.53
1:B:901:VAL:HG13	1:B:942:ALA:CB	2.39	0.53
1:C:952:LEU:HD11	1:C:966:ASP:HB2	1.90	0.53
1:A:406:VAL:O	1:A:407:ASP:C	2.49	0.53
1:A:991:ILE:HD11	1:A:1008:MET:HB2	1.89	0.53
1:A:1015:THR:O	1:A:1017:LEU:N	2.41	0.53
1:B:65:ILE:CG2	1:B:90:ILE:HD12	2.38	0.53
1:B:566:ASP:O	1:B:567:GLU:O	2.25	0.53
1:B:905:VAL:N	1:B:906:PRO:HD2	2.24	0.53
1:B:967:ALA:O	1:B:968:VAL:C	2.52	0.53
1:A:108:GLN:OE1	1:B:112:GLN:NE2	2.41	0.53
1:A:113:LEU:HD23	1:C:127:VAL:O	2.08	0.53
1:A:128:SER:CB	1:B:113:LEU:HD22	2.39	0.53
1:A:173:GLY:O	1:A:174:ASP:HB2	2.09	0.53
1:A:559:LEU:HD12	1:A:560:PRO:CD	2.37	0.53
1:A:884:VAL:O	1:A:888:LEU:HB2	2.09	0.53
1:B:51:GLY:C	1:B:53:ASP:OD2	2.51	0.53
1:C:18:ILE:O	1:C:19:ILE:C	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:158:VAL:HG12	1:C:159:ALA:N	2.23	0.53
1:C:699:ARG:HB3	1:C:825:MET:HE3	1.90	0.53
1:C:1014:ALA:O	1:C:1018:ALA:HB3	2.09	0.53
1:A:282:ASN:ND2	1:A:609:VAL:H	2.07	0.53
1:A:348:ILE:O	1:A:351:VAL:N	2.42	0.53
1:A:371:ALA:O	1:A:372:VAL:O	2.27	0.53
1:A:576:VAL:HB	1:A:663:VAL:HG22	1.89	0.53
1:A:740:GLY:O	1:A:794:ALA:N	2.32	0.53
1:A:988:PRO:O	1:A:990:VAL:N	2.42	0.53
1:B:16:ALA:HB1	1:B:374:VAL:HG21	1.90	0.53
1:B:110:LYS:O	1:B:111:LEU:C	2.51	0.53
1:B:210:GLN:HG3	1:B:249:ILE:CG2	2.36	0.53
1:B:545:TYR:C	1:B:547:ILE:H	2.15	0.53
1:C:591:LEU:HD23	1:C:613:ASN:HB2	1.91	0.53
1:C:666:PHE:N	1:C:666:PHE:HD2	2.07	0.53
1:C:945:ILE:CG2	1:C:1022:VAL:HG11	2.39	0.53
1:A:107:VAL:O	1:A:110:LYS:HB3	2.08	0.53
1:A:145:THR:HG23	1:A:145:THR:O	2.09	0.53
1:A:294:ALA:HB3	1:A:297:ALA:HB3	1.91	0.53
1:A:515:TRP:HD1	1:A:516:PHE:HB2	1.74	0.53
1:A:532:GLY:HA2	1:A:965:LEU:HD11	1.91	0.53
1:A:685:ILE:HD11	1:A:819:TYR:HD1	1.73	0.53
1:B:13:TRP:CE3	1:B:488:LEU:HD21	2.43	0.53
1:B:130:GLU:C	1:B:131:LYS:O	2.49	0.53
1:B:443:VAL:O	1:B:444:GLY:C	2.50	0.53
1:B:525:HIS:O	1:B:529:ASP:OD2	2.27	0.53
1:B:579:PRO:HD3	1:B:660:ASP:O	2.09	0.53
1:B:690:LEU:HB2	1:B:694:LYS:HB2	1.89	0.53
1:B:844:MET:O	1:B:846:GLN:N	2.41	0.53
1:C:84:SER:C	1:C:86:GLY:N	2.66	0.53
1:C:92:LEU:HD22	1:C:107:VAL:HG21	1.91	0.53
1:C:115:MET:CE	1:C:115:MET:HA	2.32	0.53
1:C:305:ALA:O	1:C:309:GLU:N	2.41	0.53
1:C:451:ALA:O	1:C:455:PRO:CD	2.57	0.53
1:C:456:MET:HE3	1:C:932:LEU:HD11	1.89	0.53
1:C:989:LEU:HB3	1:C:1004:GLY:HA3	1.91	0.53
1:C:989:LEU:HD12	1:C:1000:GLN:CB	2.39	0.53
1:A:399:VAL:C	1:A:401:ALA:N	2.62	0.53
1:A:965:LEU:O	1:A:969:ARG:CG	2.39	0.53
1:B:188:MET:HB2	1:B:775:SER:HA	1.89	0.53
1:B:199:THR:N	1:B:202:ASP:OD2	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:314:GLU:N	1:B:315:PRO:CD	2.72	0.53
1:B:317:PHE:CE2	1:B:323:ILE:HD11	2.44	0.53
1:B:317:PHE:HE2	1:B:323:ILE:HD11	1.74	0.53
1:B:357:LEU:HD12	1:B:357:LEU:O	2.08	0.53
1:C:754:TRP:CZ2	1:C:786:ILE:HG13	2.44	0.53
1:C:912:ALA:C	1:C:914:LEU:H	2.17	0.53
1:C:966:ASP:HA	1:C:969:ARG:HB2	1.91	0.53
1:A:185:ARG:O	1:A:186:ILE:HG12	2.08	0.53
1:A:230:LEU:H	1:A:230:LEU:HD23	1.73	0.53
1:A:307:ARG:NH1	1:A:325:TYR:CD2	2.76	0.53
1:A:633:ASP:O	1:A:635:ALA:N	2.42	0.53
1:A:935:ILE:O	1:A:935:ILE:CG2	2.57	0.53
1:B:763:ILE:HD11	1:C:59:ASP:CB	2.37	0.53
1:C:2:PRO:O	1:C:6:ILE:HG13	2.09	0.53
1:C:396:PHE:CE1	1:C:999:ALA:HB1	2.44	0.53
1:C:533:GLY:O	1:C:536:ARG:HB2	2.08	0.53
1:C:658:ILE:H	1:C:658:ILE:HD12	1.74	0.53
1:C:713:LEU:HB2	1:C:832:ALA:CB	2.37	0.53
1:C:847:LEU:N	1:C:847:LEU:CD2	2.70	0.53
1:C:868:LEU:O	1:C:869:SER:CB	2.56	0.53
1:A:180:SER:O	1:A:181:GLN:HB2	2.09	0.53
1:A:467:TYR:HE1	1:A:925:VAL:HG22	1.73	0.53
1:B:680:PHE:C	1:B:680:PHE:HD1	2.16	0.53
1:B:1025:PHE:H	1:B:1028:VAL:HG21	1.74	0.53
1:C:866:GLU:C	1:C:868:LEU:H	2.17	0.53
1:C:894:SER:O	1:C:896:SER:N	2.42	0.53
1:C:949:ALA:C	1:C:951:ASP:H	2.17	0.53
1:A:87:THR:HG22	1:A:88:VAL:N	2.24	0.53
1:A:222:THR:HG22	1:A:223:PRO:HD2	1.91	0.53
1:A:405:LEU:HD22	1:A:406:VAL:CA	2.38	0.53
1:A:780:ARG:NH2	1:C:223:PRO:HD2	2.24	0.53
1:B:111:LEU:O	1:B:113:LEU:N	2.42	0.53
1:B:518:ARG:HA	1:B:521:GLU:CG	2.39	0.53
1:C:1010:GLY:C	1:C:1013:THR:HG22	2.33	0.53
1:C:1029:VAL:O	1:C:1033:PHE:CD2	2.62	0.53
1:A:166:ILE:O	1:A:169:THR:HG23	2.09	0.52
1:A:189:ASN:ND2	1:A:192:GLU:HB2	2.22	0.52
1:A:379:THR:HG21	1:A:477:ALA:HA	1.91	0.52
1:B:251:LEU:HD11	1:B:262:LEU:HG	1.91	0.52
1:B:448:VAL:O	1:B:452:VAL:CG2	2.57	0.52
1:B:643:LYS:O	1:B:644:VAL:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:703:LEU:O	1:B:705:GLU:HB2	2.09	0.52
1:C:280:GLU:HB3	1:C:284:GLN:O	2.09	0.52
1:C:287:SER:OG	1:C:288:GLY:N	2.42	0.52
1:C:613:ASN:C	1:C:613:ASN:OD1	2.52	0.52
1:A:578:LEU:HD21	1:A:587:THR:HA	1.91	0.52
1:A:593:GLU:O	1:A:596:HIS:N	2.42	0.52
1:B:262:LEU:CD2	1:B:266:ALA:HB3	2.38	0.52
1:B:407:ASP:OD1	1:B:407:ASP:N	2.33	0.52
1:B:776:GLU:CG	1:B:777:ALA:N	2.72	0.52
1:B:908:GLY:C	1:B:910:ILE:N	2.68	0.52
1:B:972:LEU:O	1:B:976:LEU:HD23	2.08	0.52
1:C:50:PRO:HD3	1:C:125:GLN:HG3	1.91	0.52
1:C:57:VAL:HG12	1:C:88:VAL:HG22	1.90	0.52
1:A:431:THR:O	1:A:432:ARG:C	2.51	0.52
1:A:541:TYR:O	1:A:543:VAL:O	2.26	0.52
1:A:706:ALA:HB3	1:A:716:VAL:HG21	1.92	0.52
1:A:775:SER:HB2	1:A:789:TRP:CZ2	2.45	0.52
1:A:820:ASN:O	1:A:822:LEU:HD22	2.10	0.52
1:B:578:LEU:HD12	1:B:586:ARG:CZ	2.39	0.52
1:B:791:VAL:HG21	1:B:801:PHE:HE2	1.75	0.52
1:B:849:SER:O	1:B:850:LYS:HE2	2.09	0.52
1:C:14:VAL:HG13	1:C:15:ILE:N	2.23	0.52
1:C:102:ILE:HD13	1:C:102:ILE:N	2.23	0.52
1:C:491:ALA:O	1:C:493:CYS:N	2.34	0.52
1:C:696:THR:O	1:C:697:GLN:C	2.52	0.52
1:A:727:PHE:CE2	1:A:729:ILE:HD11	2.45	0.52
1:A:813:SER:CB	1:A:816:LEU:CD2	2.87	0.52
1:B:84:SER:C	1:B:86:GLY:N	2.68	0.52
1:C:528:THR:HG22	1:C:528:THR:O	2.09	0.52
1:C:545:TYR:CZ	1:C:1021:PHE:CG	2.97	0.52
1:A:14:VAL:HG11	1:B:886:LEU:O	2.10	0.52
1:A:144:ASN:ND2	1:A:320:GLY:O	2.42	0.52
1:A:325:TYR:N	1:A:325:TYR:CD1	2.75	0.52
1:A:344:LEU:HD22	1:A:376:LEU:HD11	1.92	0.52
1:A:399:VAL:C	1:A:401:ALA:H	2.16	0.52
1:A:600:THR:O	1:A:601:LYS:CB	2.57	0.52
1:B:136:PHE:CE1	1:B:617:PHE:CZ	2.86	0.52
1:B:439:GLN:HA	1:B:442:LEU:CD1	2.38	0.52
1:B:566:ASP:OD1	1:B:566:ASP:N	2.42	0.52
1:B:801:PHE:HA	1:B:804:PHE:CE1	2.44	0.52
1:B:889:ALA:O	1:B:892:TYR:O	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:904:VAL:C	1:B:906:PRO:HD2	2.35	0.52
1:C:997:SER:O	1:C:1000:GLN:N	2.42	0.52
1:A:49:TYR:CE2	1:A:121:GLU:HG2	2.40	0.52
1:A:780:ARG:NH1	1:A:780:ARG:CG	2.69	0.52
1:B:190:PRO:CG	1:B:779:TYR:CG	2.93	0.52
1:B:960:LEU:C	1:B:960:LEU:CD1	2.82	0.52
1:C:188:MET:HE2	1:C:203:VAL:HG21	1.92	0.52
1:C:218:GLN:HG2	1:C:232:ALA:O	2.08	0.52
1:C:225:VAL:O	1:C:226:LYS:C	2.52	0.52
1:C:367:ILE:O	1:C:367:ILE:HD12	2.10	0.52
1:C:532:GLY:O	1:C:534:ILE:HD12	2.09	0.52
1:C:554:TYR:CD1	1:C:558:ARG:NH2	2.68	0.52
1:C:709:HIS:C	1:C:711:ASP:H	2.17	0.52
1:C:827:ILE:O	1:C:827:ILE:HG22	2.09	0.52
1:C:950:LYS:NZ	1:C:1030:ARG:NE	2.57	0.52
1:A:191:ASN:O	1:A:192:GLU:C	2.51	0.52
1:A:219:LEU:HD22	1:B:781:MET:O	2.09	0.52
1:B:129:VAL:O	1:B:129:VAL:CG1	2.51	0.52
1:B:238:THR:OG1	1:B:239:ARG:N	2.42	0.52
1:B:314:GLU:C	1:B:316:PHE:H	2.17	0.52
1:B:407:ASP:O	1:B:408:ASP:C	2.51	0.52
1:B:525:HIS:O	1:B:529:ASP:HB2	2.10	0.52
1:B:940:LYS:HZ1	1:B:978:THR:HG23	1.75	0.52
1:C:402:ILE:O	1:C:406:VAL:CG2	2.56	0.52
1:C:485:ALA:HA	1:C:489:THR:OG1	2.09	0.52
1:C:705:GLU:C	1:C:707:ALA:N	2.66	0.52
1:C:713:LEU:HD11	1:C:834:GLY:C	2.34	0.52
1:A:514:GLY:O	1:A:518:ARG:HB2	2.08	0.52
1:A:696:THR:OG1	1:A:825:MET:HE1	2.10	0.52
1:B:160:ALA:HB2	1:B:181:GLN:OE1	2.09	0.52
1:B:199:THR:C	1:B:201:VAL:N	2.65	0.52
1:B:578:LEU:HB2	1:B:623:ASN:HB2	1.92	0.52
1:B:921:LEU:HD22	1:B:1005:THR:HG22	1.91	0.52
1:C:117:LEU:O	1:C:118:LEU:C	2.50	0.52
1:C:327:TYR:CB	1:C:628:PHE:HB3	2.39	0.52
1:C:552:MET:O	1:C:554:TYR:N	2.43	0.52
1:C:680:PHE:CE1	1:C:844:MET:HE2	2.44	0.52
1:C:1024:VAL:CG1	1:C:1028:VAL:CG2	2.88	0.52
1:A:225:VAL:HG22	1:B:778:LYS:HZ1	1.74	0.52
1:A:643:LYS:O	1:A:647:ILE:HG13	2.10	0.52
1:A:978:THR:CG2	1:A:979:SER:N	2.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:156:ASP:CG	1:B:182:TYR:CD2	2.88	0.52
1:B:157:TYR:CE1	1:B:318:PRO:HD3	2.44	0.52
1:B:224:PRO:O	1:B:224:PRO:HD2	2.09	0.52
1:B:732:ASP:O	1:B:733:GLN:C	2.53	0.52
1:B:831:ALA:HB2	1:B:840:ALA:CB	2.39	0.52
1:C:167:SER:N	1:C:167:SER:CB	2.65	0.52
1:C:409:ALA:O	1:C:410:ILE:O	2.28	0.52
1:A:1:MET:H3	1:A:2:PRO:CD	2.23	0.52
1:A:183:ALA:N	1:A:271:GLY:O	2.41	0.52
1:A:449:LEU:O	1:A:453:PHE:HD1	1.92	0.52
1:A:516:PHE:O	1:A:518:ARG:N	2.33	0.52
1:A:594:VAL:HA	1:A:655:PHE:HE2	1.69	0.52
1:A:691:GLY:O	1:A:692:HIS:C	2.53	0.52
1:B:59:ASP:HA	1:B:63:GLN:HB2	1.92	0.52
1:B:396:PHE:CD2	1:B:1003:VAL:HG21	2.45	0.52
1:B:867:ARG:HG2	1:B:867:ARG:HH11	1.75	0.52
1:B:940:LYS:NZ	1:B:978:THR:CG2	2.72	0.52
1:B:1012:VAL:HG22	1:B:1013:THR:H	1.75	0.52
1:C:338:HIS:ND1	1:C:338:HIS:C	2.68	0.52
1:C:885:PHE:CD1	1:C:886:LEU:N	2.78	0.52
1:C:893:GLU:O	1:C:893:GLU:HG3	2.10	0.52
1:A:426:PRO:CB	1:A:427:PRO:HD2	2.40	0.51
1:A:682:PHE:CZ	1:A:857:TYR:HB2	2.44	0.51
1:A:924:ASP:O	1:A:927:PHE:N	2.36	0.51
1:B:287:SER:OG	1:B:288:GLY:N	2.41	0.51
1:B:335:ILE:C	1:B:337:ILE:N	2.68	0.51
1:B:578:LEU:CD1	1:B:586:ARG:NH2	2.68	0.51
1:B:1016:VAL:C	1:B:1018:ALA:H	2.18	0.51
1:B:1017:LEU:HD12	1:B:1017:LEU:H	1.75	0.51
1:C:493:CYS:O	1:C:493:CYS:SG	2.68	0.51
1:C:657:GLN:C	1:C:659:LYS:N	2.68	0.51
1:C:710:PRO:O	1:C:712:MET:O	2.28	0.51
1:C:950:LYS:O	1:C:954:ASP:HB2	2.09	0.51
1:A:189:ASN:OD1	1:A:189:ASN:O	2.29	0.51
1:A:418:ARG:HH11	1:A:973:ARG:NE	2.09	0.51
1:B:219:LEU:HD23	1:C:783:PRO:CG	2.39	0.51
1:B:339:GLU:HB3	1:B:1000:GLN:HE22	1.75	0.51
1:B:372:VAL:HB	1:B:402:ILE:CD1	2.40	0.51
1:B:485:ALA:HA	1:B:489:THR:CB	2.39	0.51
1:B:605:ASN:O	1:B:632:LYS:HG2	2.10	0.51
1:B:652:THR:O	1:B:656:SER:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:146:ASP:CB	1:C:148:THR:HG23	2.40	0.51
1:C:167:SER:N	1:C:175:VAL:HG21	2.20	0.51
1:C:909:VAL:HG12	1:C:931:LEU:HD11	1.93	0.51
1:C:972:LEU:O	1:C:973:ARG:C	2.52	0.51
1:A:47:ALA:HB3	1:A:88:VAL:HG21	1.92	0.51
1:A:330:THR:HG23	1:A:334:LYS:HE2	1.93	0.51
1:A:428:LYS:CE	1:A:429:GLU:OE2	2.58	0.51
1:B:211:ASN:ND2	1:B:246:PHE:HZ	2.09	0.51
1:B:563:PHE:HB2	1:B:866:GLU:HG2	1.92	0.51
1:B:714:THR:HG22	1:B:831:ALA:HA	1.92	0.51
1:C:183:ALA:N	1:C:271:GLY:O	2.43	0.51
1:C:189:ASN:HD22	1:C:190:PRO:N	2.07	0.51
1:C:310:LEU:O	1:C:313:MET:HB2	2.10	0.51
1:C:396:PHE:O	1:C:400:LEU:HD23	2.10	0.51
1:C:483:LEU:HD22	1:C:487:ILE:HD11	1.92	0.51
1:C:547:ILE:O	1:C:551:GLY:N	2.42	0.51
1:C:643:LYS:O	1:C:647:ILE:HG13	2.10	0.51
1:C:655:PHE:C	1:C:657:GLN:H	2.17	0.51
1:C:949:ALA:C	1:C:951:ASP:N	2.68	0.51
1:A:623:ASN:ND2	1:A:623:ASN:C	2.68	0.51
1:B:234:ILE:HG22	1:B:234:ILE:O	2.10	0.51
1:B:262:LEU:CD2	1:B:266:ALA:CB	2.89	0.51
1:B:307:ARG:HH11	1:B:307:ARG:HB2	1.75	0.51
1:B:633:ASP:CG	1:B:634:TRP:N	2.68	0.51
1:B:685:ILE:HD11	1:B:858:ASP:HB2	1.93	0.51
1:B:785:ASP:O	1:B:788:ASP:N	2.40	0.51
1:B:792:ARG:HG3	1:B:798:MET:CE	2.40	0.51
1:B:925:VAL:HA	1:B:928:GLN:OE1	2.11	0.51
1:C:266:ALA:O	1:C:267:LYS:C	2.53	0.51
1:C:554:TYR:O	1:C:555:LEU:HB2	2.10	0.51
1:C:878:ALA:C	1:C:880:SER:N	2.65	0.51
1:C:907:LEU:HD23	1:C:1018:ALA:HA	1.93	0.51
1:A:141:GLY:HA2	1:A:288:GLY:HA2	1.91	0.51
1:A:329:THR:HG23	1:A:329:THR:O	2.10	0.51
1:A:781:MET:HE2	1:C:225:VAL:HG13	1.93	0.51
1:A:831:ALA:HB2	1:A:837:THR:HA	1.92	0.51
1:A:888:LEU:HD21	1:A:901:VAL:CB	2.39	0.51
1:B:1:MET:CB	1:B:2:PRO:CD	2.76	0.51
1:B:5:PHE:N	1:B:7:ASP:O	2.43	0.51
1:B:538:THR:HG23	1:B:540:ARG:NH2	2.26	0.51
1:B:842:GLU:O	1:B:846:GLN:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:214:VAL:HG23	1:C:237:GLN:HB2	1.91	0.51
1:C:324:VAL:HG23	1:C:325:TYR:N	2.25	0.51
1:C:344:LEU:CD2	1:C:399:VAL:CG2	2.89	0.51
1:C:418:ARG:CD	1:C:970:MET:HE2	2.41	0.51
1:C:527:TYR:OH	1:C:968:VAL:CG1	2.58	0.51
1:C:540:ARG:NE	1:C:541:TYR:CE1	2.68	0.51
1:A:73:ASP:HB3	1:A:106:GLN:HE22	1.75	0.51
1:A:169:THR:OG1	1:A:172:VAL:HG11	2.10	0.51
1:A:252:LYS:HB3	1:A:260:VAL:HG21	1.93	0.51
1:A:325:TYR:N	1:A:325:TYR:HD1	2.08	0.51
1:A:354:VAL:O	1:A:355:MET:HB3	2.09	0.51
1:A:644:VAL:C	1:A:646:ALA:H	2.17	0.51
1:A:872:GLN:O	1:A:873:ALA:C	2.53	0.51
1:B:445:ILE:HG23	1:B:940:LYS:CG	2.29	0.51
1:B:518:ARG:HA	1:B:521:GLU:CB	2.40	0.51
1:B:700:ASN:O	1:B:704:ALA:CB	2.59	0.51
1:B:920:GLY:O	1:B:921:LEU:O	2.28	0.51
1:C:907:LEU:HG	1:C:1017:LEU:HD23	1.92	0.51
1:A:324:VAL:CG1	1:A:325:TYR:N	2.74	0.51
1:A:355:MET:HE3	1:A:977:MET:HE1	1.92	0.51
1:A:563:PHE:O	1:A:564:LEU:HD12	2.11	0.51
1:A:778:LYS:HG2	1:A:779:TYR:CE1	2.45	0.51
1:A:819:TYR:O	1:A:820:ASN:C	2.54	0.51
1:B:26:ALA:O	1:B:30:LEU:CB	2.59	0.51
1:B:255:GLN:HG3	1:B:256:ASP:H	1.75	0.51
1:B:314:GLU:H	1:B:315:PRO:HD2	1.75	0.51
1:B:369:THR:O	1:B:373:PRO:HD3	2.11	0.51
1:B:705:GLU:C	1:B:707:ALA:N	2.69	0.51
1:B:819:TYR:OH	1:B:860:THR:OG1	2.25	0.51
1:C:418:ARG:C	1:C:420:MET:N	2.54	0.51
1:C:685:ILE:CG1	1:C:687:GLN:OE1	2.56	0.51
1:C:774:MET:HG2	1:C:775:SER:N	2.25	0.51
1:C:911:GLY:N	1:C:1013:THR:HG21	2.25	0.51
1:C:912:ALA:O	1:C:914:LEU:O	2.28	0.51
1:A:401:ALA:HB2	1:A:474:ILE:HG12	1.92	0.51
1:A:687:GLN:HB3	1:A:854:GLY:O	2.11	0.51
1:B:351:VAL:O	1:B:351:VAL:HG12	2.11	0.51
1:B:380:PHE:CZ	1:B:398:MET:HE2	2.45	0.51
1:B:455:PRO:O	1:B:456:MET:C	2.53	0.51
1:B:605:ASN:O	1:B:632:LYS:N	2.40	0.51
1:B:648:THR:HG21	1:B:666:PHE:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:699:ARG:CG	1:B:700:ASN:H	2.23	0.51
1:B:701:GLN:HG3	1:B:851:LEU:CD2	2.41	0.51
1:B:706:ALA:HA	1:B:713:LEU:HD22	1.93	0.51
1:C:18:ILE:O	1:C:20:MET:N	2.44	0.51
1:A:263:ARG:HH21	1:A:263:ARG:CB	2.13	0.51
1:A:308:ALA:O	1:A:311:ALA:HB3	2.11	0.51
1:A:463:THR:C	1:A:465:ALA:H	2.19	0.51
1:A:574:THR:HG21	1:A:598:TYR:HE1	1.75	0.51
1:B:12:ALA:O	1:B:13:TRP:C	2.53	0.51
1:B:136:PHE:HA	1:B:292:LYS:HG3	1.93	0.51
1:B:460:GLY:HA2	1:B:872:GLN:HE22	1.76	0.51
1:C:218:GLN:HE21	1:C:231:ASN:HD21	1.57	0.51
1:C:376:LEU:O	1:C:377:LEU:C	2.52	0.51
1:C:392:THR:O	1:C:393:LEU:C	2.53	0.51
1:C:393:LEU:HD13	1:C:466:ILE:CG2	2.37	0.51
1:C:410:ILE:O	1:C:412:VAL:N	2.43	0.51
1:C:681:ASP:OD2	1:C:828:LEU:CD1	2.59	0.51
1:C:790:TYR:C	1:C:791:VAL:CG2	2.84	0.51
1:C:792:ARG:HG3	1:C:793:ALA:O	2.11	0.51
1:C:905:VAL:CB	1:C:906:PRO:HD3	2.41	0.51
1:A:225:VAL:CG1	1:A:226:LYS:N	2.74	0.51
1:A:418:ARG:O	1:A:421:ALA:HB3	2.11	0.51
1:A:616:GLY:CA	1:A:624:THR:OG1	2.59	0.51
1:A:713:LEU:CG	1:A:714:THR:H	2.22	0.51
1:A:1024:VAL:CG1	1:A:1025:PHE:H	2.13	0.51
1:B:776:GLU:O	1:B:777:ALA:C	2.54	0.51
1:C:3:ASN:HD21	1:C:432:ARG:CD	2.24	0.51
1:C:158:VAL:O	1:C:162:MET:N	2.39	0.51
1:C:222:THR:CB	1:C:223:PRO:HD3	2.35	0.51
1:C:303:ALA:O	1:C:304:ALA:C	2.53	0.51
1:C:600:THR:OG1	1:C:601:LYS:N	2.44	0.51
1:C:934:THR:HG22	1:C:1011:MET:SD	2.51	0.51
1:A:456:MET:O	1:A:457:ALA:CB	2.48	0.50
1:A:890:ALA:HB1	1:C:11:PHE:CD1	2.46	0.50
1:A:901:VAL:CG1	1:A:943:ILE:HG13	2.40	0.50
1:A:902:MET:O	1:A:904:VAL:N	2.43	0.50
1:A:966:ASP:O	1:A:969:ARG:HB2	2.11	0.50
1:B:6:ILE:HD12	1:B:491:ALA:N	2.26	0.50
1:B:92:LEU:N	1:B:92:LEU:CD2	2.74	0.50
1:B:355:MET:SD	1:B:368:PRO:HB2	2.50	0.50
1:B:472:ILE:O	1:B:473:THR:C	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:702:LEU:HD13	1:B:702:LEU:O	2.11	0.50
1:B:891:LEU:HD12	1:B:892:TYR:CE1	2.46	0.50
1:C:6:ILE:HA	1:C:491:ALA:HB2	1.93	0.50
1:C:260:VAL:O	1:C:260:VAL:CG1	2.59	0.50
1:C:545:TYR:O	1:C:546:LEU:C	2.54	0.50
1:C:759:VAL:HG23	1:C:771:VAL:O	2.11	0.50
1:C:969:ARG:HG2	1:C:969:ARG:HH21	1.76	0.50
1:C:1016:VAL:HA	1:C:1019:ILE:HG22	1.92	0.50
1:A:45:ILE:HB	1:A:90:ILE:HB	1.93	0.50
1:A:311:ALA:O	1:A:312:LYS:CB	2.59	0.50
1:A:344:LEU:HD22	1:A:402:ILE:CD1	2.40	0.50
1:A:402:ILE:CG2	1:A:403:GLY:N	2.73	0.50
1:A:443:VAL:O	1:A:444:GLY:C	2.52	0.50
1:A:562:SER:HB3	1:A:924:ASP:HB3	1.93	0.50
1:A:573:MET:SD	1:A:628:PHE:CD1	3.04	0.50
1:B:125:GLN:O	1:B:125:GLN:HG2	2.11	0.50
1:B:185:ARG:HH11	1:B:185:ARG:CG	2.17	0.50
1:B:225:VAL:HG13	1:C:781:MET:HE2	1.93	0.50
1:B:960:LEU:HD12	1:B:961:ILE:N	2.25	0.50
1:C:166:ILE:CA	1:C:166:ILE:CD1	2.88	0.50
1:C:211:ASN:C	1:C:211:ASN:ND2	2.69	0.50
1:C:236:ALA:O	1:C:237:GLN:C	2.54	0.50
1:C:1010:GLY:HA2	1:C:1013:THR:HG22	1.93	0.50
1:A:57:VAL:O	1:A:57:VAL:HG13	2.11	0.50
1:A:108:GLN:O	1:A:110:LYS:N	2.45	0.50
1:A:746:ILE:HD13	1:A:804:PHE:CD1	2.46	0.50
1:A:1011:MET:HA	1:A:1011:MET:CE	2.39	0.50
1:B:38:ILE:O	1:B:462:SER:HB2	2.12	0.50
1:B:200:PRO:O	1:B:203:VAL:HB	2.12	0.50
1:B:690:LEU:CB	1:B:694:LYS:HB2	2.41	0.50
1:B:701:GLN:HB3	1:B:851:LEU:HD13	1.93	0.50
1:C:34:GLN:C	1:C:35:TYR:CG	2.88	0.50
1:C:57:VAL:HG12	1:C:88:VAL:CG2	2.40	0.50
1:C:327:TYR:HB3	1:C:628:PHE:HB3	1.93	0.50
1:C:384:ALA:O	1:C:385:ALA:C	2.53	0.50
1:C:449:LEU:O	1:C:452:VAL:N	2.35	0.50
1:C:841:MET:O	1:C:842:GLU:C	2.54	0.50
1:C:897:ILE:HD13	1:C:950:LYS:CD	2.42	0.50
1:C:966:ASP:HA	1:C:969:ARG:CB	2.41	0.50
1:A:27:ILE:HG22	1:A:28:LEU:HD12	1.93	0.50
1:A:211:ASN:ND2	1:A:760:ASN:OD1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:275:TYR:CB	1:C:222:THR:HG22	2.41	0.50
1:A:376:LEU:C	1:A:377:LEU:O	2.54	0.50
1:A:1026:PHE:O	1:A:1029:VAL:O	2.30	0.50
1:B:418:ARG:CZ	1:B:970:MET:SD	3.00	0.50
1:B:535:LEU:O	1:B:536:ARG:C	2.55	0.50
1:B:539:GLY:C	1:B:541:TYR:H	2.19	0.50
1:B:941:ASN:OD1	1:B:979:SER:OG	2.27	0.50
1:B:1012:VAL:C	1:B:1014:ALA:H	2.19	0.50
1:C:54:ALA:N	1:C:57:VAL:HG23	2.27	0.50
1:C:146:ASP:HB3	1:C:148:THR:HG23	1.94	0.50
1:C:247:GLY:O	1:C:263:ARG:HB2	2.11	0.50
1:C:279:ALA:C	1:C:280:GLU:HG3	2.36	0.50
1:C:332:PHE:CE1	1:C:569:GLN:HG2	2.46	0.50
1:C:897:ILE:N	1:C:898:PRO:HD2	2.27	0.50
1:A:456:MET:HE1	1:A:929:VAL:HG22	1.94	0.50
1:A:540:ARG:HD2	1:A:541:TYR:CD2	2.46	0.50
1:A:569:GLN:HA	1:A:634:TRP:CH2	2.47	0.50
1:A:946:VAL:O	1:A:946:VAL:CG1	2.59	0.50
1:A:1004:GLY:O	1:A:1005:THR:C	2.54	0.50
1:B:72:ILE:HD13	1:B:72:ILE:N	2.25	0.50
1:B:545:TYR:HD2	1:B:546:LEU:HD23	1.77	0.50
1:B:799:VAL:HG23	1:B:800:PRO:HD2	1.94	0.50
1:B:915:ALA:O	1:B:917:THR:N	2.37	0.50
1:C:317:PHE:CB	1:C:318:PRO:CD	2.84	0.50
1:C:389:SER:HG	1:C:391:ASN:HD22	1.57	0.50
1:C:545:TYR:HA	1:C:548:ILE:HG13	1.92	0.50
1:A:42:ALA:C	1:A:43:VAL:HG23	2.36	0.50
1:B:14:VAL:CG1	1:C:890:ALA:HB2	2.27	0.50
1:B:25:LEU:C	1:B:27:ILE:N	2.67	0.50
1:B:143:ILE:O	1:B:322:LYS:N	2.38	0.50
1:B:418:ARG:HE	1:B:970:MET:HE3	1.75	0.50
1:B:585:GLU:O	1:B:588:GLN:N	2.43	0.50
1:B:843:LEU:O	1:B:844:MET:C	2.53	0.50
1:B:930:GLY:O	1:B:934:THR:CG2	2.58	0.50
1:C:412:VAL:O	1:C:416:VAL:HG13	2.12	0.50
1:C:841:MET:HE2	1:C:863:SER:OG	2.11	0.50
1:C:972:LEU:H	1:C:974:PRO:CD	2.22	0.50
1:A:49:TYR:O	1:A:50:PRO:C	2.54	0.50
1:A:405:LEU:H	1:A:405:LEU:HD13	1.76	0.50
1:A:552:MET:SD	1:A:909:VAL:CG1	2.99	0.50
1:B:85:THR:CG2	1:B:87:THR:HB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:144:ASN:HA	1:B:321:LEU:HA	1.93	0.50
1:B:188:MET:SD	1:B:200:PRO:HB3	2.51	0.50
1:B:279:ALA:HA	1:B:611:ALA:O	2.11	0.50
1:B:549:VAL:O	1:B:550:VAL:C	2.54	0.50
1:B:841:MET:O	1:B:845:GLU:HB2	2.11	0.50
1:B:975:ILE:H	1:B:975:ILE:HD12	1.76	0.50
1:C:141:GLY:HA3	1:C:324:VAL:CG2	2.36	0.50
1:C:166:ILE:CA	1:C:166:ILE:HD13	2.42	0.50
1:C:945:ILE:HB	1:C:971:ARG:HG3	1.93	0.50
1:A:220:GLY:H	1:A:231:ASN:HD22	1.60	0.50
1:A:912:ALA:HB2	1:A:1010:GLY:HA3	1.93	0.50
1:C:692:HIS:CE1	1:C:721:LEU:HD21	2.39	0.50
1:C:713:LEU:HD13	1:C:713:LEU:N	2.21	0.50
1:C:729:ILE:CD1	1:C:786:ILE:HD13	2.24	0.50
1:A:1:MET:H2	1:A:2:PRO:HD2	1.77	0.50
1:A:16:ALA:HB2	1:A:488:LEU:HD13	1.94	0.50
1:A:596:HIS:C	1:A:598:TYR:N	2.59	0.50
1:A:884:VAL:HG12	1:A:902:MET:CE	2.42	0.50
1:B:348:ILE:HG23	1:B:372:VAL:HG21	1.94	0.50
1:B:602:GLU:HB2	1:B:606:VAL:HG23	1.93	0.50
1:C:11:PHE:CD2	1:C:11:PHE:O	2.65	0.50
1:C:424:GLY:C	1:C:425:LEU:HD22	2.37	0.50
1:C:752:ALA:O	1:C:774:MET:HA	2.11	0.50
1:C:774:MET:HG2	1:C:775:SER:H	1.76	0.50
1:C:861:GLY:O	1:C:864:TYR:N	2.44	0.50
1:A:58:GLN:HE22	1:A:816:LEU:CD1	2.23	0.49
1:A:198:LEU:HD22	1:A:202:ASP:CB	2.42	0.49
1:A:649:MET:HE3	1:A:653:ARG:CZ	2.42	0.49
1:A:709:HIS:N	1:A:710:PRO:HD3	2.27	0.49
1:A:950:LYS:O	1:A:951:ASP:CB	2.59	0.49
1:B:115:MET:HA	1:B:115:MET:HE2	1.88	0.49
1:B:401:ALA:O	1:B:404:LEU:N	2.36	0.49
1:B:560:PRO:O	1:B:923:ASN:HB3	2.12	0.49
1:B:606:VAL:HA	1:B:631:LEU:HD23	1.92	0.49
1:B:659:LYS:CD	1:B:660:ASP:OD2	2.59	0.49
1:B:968:VAL:O	1:B:972:LEU:HB2	2.11	0.49
1:C:35:TYR:HB3	1:C:36:PRO:HD2	1.93	0.49
1:C:98:THR:HG22	1:C:99:ASP:N	2.26	0.49
1:C:568:ASP:OD1	1:C:568:ASP:O	2.29	0.49
1:A:281:PHE:O	1:A:284:GLN:HG2	2.13	0.49
1:A:337:ILE:O	1:A:339:GLU:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:17:ILE:HG13	1:C:886:LEU:HD22	1.94	0.49
1:B:85:THR:HG23	1:B:87:THR:H	1.76	0.49
1:B:148:THR:O	1:B:148:THR:HG22	2.12	0.49
1:C:448:VAL:HG22	1:C:887:CYS:HB3	1.94	0.49
1:C:470:PHE:O	1:C:471:SER:C	2.55	0.49
1:C:527:TYR:CZ	1:C:968:VAL:HG12	2.47	0.49
1:C:633:ASP:O	1:C:634:TRP:HB2	2.12	0.49
1:C:643:LYS:C	1:C:647:ILE:HG13	2.37	0.49
1:C:713:LEU:HD12	1:C:833:PRO:O	2.12	0.49
1:C:754:TRP:CH2	1:C:780:ARG:HA	2.47	0.49
1:C:925:VAL:HG23	1:C:926:TYR:N	2.28	0.49
1:C:1024:VAL:CG1	1:C:1028:VAL:HG21	2.42	0.49
1:A:11:PHE:O	1:A:14:VAL:N	2.44	0.49
1:A:445:ILE:CD1	1:A:940:LYS:HE3	2.43	0.49
1:A:902:MET:C	1:A:904:VAL:H	2.20	0.49
1:B:188:MET:HE1	1:B:203:VAL:HG21	1.94	0.49
1:B:371:ALA:O	1:B:372:VAL:C	2.55	0.49
1:B:572:PHE:CZ	1:B:629:VAL:HG21	2.48	0.49
1:C:137:LEU:N	1:C:291:ILE:O	2.45	0.49
1:C:185:ARG:HG3	1:C:271:GLY:HA3	1.94	0.49
1:C:395:MET:O	1:C:396:PHE:C	2.55	0.49
1:C:680:PHE:HB2	1:C:859:TRP:HZ3	1.77	0.49
1:C:844:MET:HA	1:C:847:LEU:CD2	2.36	0.49
1:C:847:LEU:O	1:C:850:LYS:CG	2.55	0.49
1:A:115:MET:C	1:A:117:LEU:N	2.71	0.49
1:A:367:ILE:HG12	1:A:413:VAL:CG2	2.41	0.49
1:A:538:THR:C	1:A:540:ARG:H	2.20	0.49
1:A:605:ASN:O	1:A:631:LEU:HA	2.12	0.49
1:A:1031:ARG:O	1:A:1035:ARG:NH1	2.44	0.49
1:B:126:GLY:C	1:B:127:VAL:HG23	2.38	0.49
1:B:844:MET:C	1:B:846:GLN:N	2.70	0.49
1:C:185:ARG:CG	1:C:271:GLY:HA3	2.42	0.49
1:C:432:ARG:NH1	1:C:432:ARG:CG	2.40	0.49
1:C:641:GLU:O	1:C:650:ARG:NH1	2.45	0.49
1:C:1026:PHE:O	1:C:1029:VAL:HB	2.12	0.49
1:A:73:ASP:O	1:A:75:LEU:N	2.43	0.49
1:A:216:ALA:O	1:A:217:GLY:O	2.31	0.49
1:A:253:VAL:CG2	1:A:258:SER:O	2.42	0.49
1:A:540:ARG:HD2	1:A:541:TYR:CE2	2.48	0.49
1:B:42:ALA:CB	1:B:93:THR:CG2	2.85	0.49
1:B:316:PHE:CZ	1:C:687:GLN:HG3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:456:MET:CG	1:B:467:TYR:HB3	2.29	0.49
1:B:792:ARG:HA	1:B:798:MET:CE	2.39	0.49
1:B:862:MET:O	1:B:863:SER:C	2.54	0.49
1:B:990:VAL:O	1:B:990:VAL:HG12	2.12	0.49
1:C:108:GLN:HG2	1:C:129:VAL:HG21	1.93	0.49
1:C:332:PHE:O	1:C:333:VAL:C	2.56	0.49
1:C:730:ASP:C	1:C:730:ASP:OD1	2.55	0.49
1:C:950:LYS:HZ1	1:C:1030:ARG:NE	2.09	0.49
1:C:1016:VAL:C	1:C:1018:ALA:H	2.16	0.49
1:A:344:LEU:O	1:A:345:VAL:C	2.52	0.49
1:A:599:LEU:O	1:A:600:THR:HB	2.13	0.49
1:A:911:GLY:H	1:A:914:LEU:CD1	2.25	0.49
1:A:995:ALA:O	1:A:996:GLY:C	2.54	0.49
1:B:281:PHE:CZ	1:B:608:SER:HB2	2.48	0.49
1:B:410:ILE:C	1:B:412:VAL:N	2.70	0.49
1:B:613:ASN:ND2	1:B:613:ASN:C	2.70	0.49
1:B:790:TYR:HD1	1:B:800:PRO:N	2.10	0.49
1:B:888:LEU:O	1:B:889:ALA:C	2.55	0.49
1:B:941:ASN:HD21	1:B:1015:THR:HG23	1.77	0.49
1:B:945:ILE:HD11	1:B:1022:VAL:HB	1.93	0.49
1:C:18:ILE:HG22	1:C:19:ILE:N	2.27	0.49
1:C:146:ASP:HB2	1:C:148:THR:HG1	1.77	0.49
1:A:105:VAL:HG22	1:B:105:VAL:HG13	1.93	0.49
1:A:228:GLN:CG	1:B:781:MET:HG2	2.38	0.49
1:A:340:VAL:CG1	1:A:399:VAL:HG23	2.43	0.49
1:A:683:GLU:CD	1:A:826:GLU:HB2	2.38	0.49
1:A:884:VAL:HG12	1:A:902:MET:HE3	1.94	0.49
1:A:1004:GLY:O	1:A:1007:VAL:N	2.46	0.49
1:B:545:TYR:OH	1:B:906:PRO:CG	2.56	0.49
1:B:655:PHE:CA	1:B:658:ILE:HG12	2.42	0.49
1:B:941:ASN:HD22	1:B:1015:THR:HA	1.77	0.49
1:B:972:LEU:CD1	1:B:976:LEU:HD21	2.41	0.49
1:B:982:PHE:O	1:B:986:VAL:HG23	2.12	0.49
1:B:1024:VAL:HG12	1:B:1028:VAL:HG21	1.94	0.49
1:C:601:LYS:C	1:C:603:LYS:H	2.21	0.49
1:C:644:VAL:HG11	1:C:667:ASN:ND2	2.27	0.49
1:C:666:PHE:HD2	1:C:666:PHE:H	1.60	0.49
1:C:696:THR:CA	1:C:825:MET:HE1	2.41	0.49
1:C:1032:ARG:HG2	1:C:1032:ARG:O	2.11	0.49
1:A:1:MET:HG2	1:A:2:PRO:HD3	1.94	0.49
1:A:198:LEU:HD22	1:A:202:ASP:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:391:ASN:O	1:A:392:THR:C	2.54	0.49
1:A:930:GLY:C	1:A:932:LEU:N	2.69	0.49
1:B:2:PRO:CD	1:B:486:LEU:HD12	2.42	0.49
1:B:369:THR:O	1:B:372:VAL:HG13	2.13	0.49
1:B:638:PRO:HG2	1:B:639:GLY:N	2.28	0.49
1:B:892:TYR:HB3	1:B:897:ILE:CD1	2.43	0.49
1:B:975:ILE:HD12	1:B:975:ILE:N	2.27	0.49
1:C:103:ALA:O	1:C:104:GLN:C	2.55	0.49
1:C:115:MET:HB2	1:C:116:PRO:HD3	1.95	0.49
1:C:144:ASN:HD21	1:C:148:THR:N	2.10	0.49
1:C:158:VAL:HG11	1:C:177:LEU:CD2	2.42	0.49
1:C:371:ALA:O	1:C:375:VAL:HG23	2.12	0.49
1:C:578:LEU:CD2	1:C:661:ALA:CB	2.83	0.49
1:C:685:ILE:HD11	1:C:687:GLN:CA	2.41	0.49
1:C:685:ILE:O	1:C:685:ILE:HG13	2.05	0.49
1:C:894:SER:C	1:C:896:SER:N	2.70	0.49
1:A:25:LEU:HD13	1:A:25:LEU:C	2.38	0.49
1:A:779:TYR:N	1:A:779:TYR:CD1	2.81	0.49
1:A:984:LEU:O	1:A:988:PRO:HD3	2.13	0.49
1:B:110:LYS:HD3	1:B:110:LYS:HA	1.57	0.49
1:B:115:MET:SD	1:B:127:VAL:HG11	2.53	0.49
1:B:577:GLN:C	1:B:578:LEU:O	2.55	0.49
1:B:723:ASP:HA	1:B:814:PRO:HD3	1.95	0.49
1:C:277:ILE:HD11	1:C:620:ARG:HH21	1.75	0.49
1:C:422:GLU:OE2	1:C:423:GLU:HG3	2.13	0.49
1:C:476:SER:O	1:C:477:ALA:HB3	2.12	0.49
1:C:492:LEU:HA	1:C:495:THR:HB	1.95	0.49
1:C:536:ARG:O	1:C:538:THR:N	2.46	0.49
1:C:666:PHE:CD2	1:C:666:PHE:O	2.66	0.49
1:A:275:TYR:HB2	1:C:222:THR:HG22	1.94	0.49
1:A:445:ILE:HG13	1:A:446:ALA:N	2.27	0.49
1:A:516:PHE:C	1:A:518:ARG:H	2.20	0.49
1:A:575:MET:HB2	1:A:664:PHE:HB2	1.95	0.49
1:A:719:ASN:ND2	1:A:719:ASN:O	2.45	0.49
1:A:1017:LEU:HG	1:A:1017:LEU:O	2.13	0.49
1:B:49:TYR:CG	1:B:122:VAL:CA	2.86	0.49
1:B:467:TYR:O	1:B:470:PHE:HB2	2.12	0.49
1:B:548:ILE:HD13	1:B:1017:LEU:HD23	1.94	0.49
1:B:904:VAL:O	1:B:905:VAL:C	2.56	0.49
1:C:211:ASN:HD21	1:C:239:ARG:HG3	1.78	0.49
1:C:399:VAL:C	1:C:401:ALA:N	2.71	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:330:THR:HG22	1:A:331:PRO:CD	2.43	0.48
1:A:638:PRO:HG2	1:A:639:GLY:N	2.24	0.48
1:A:686:ASP:HB2	1:A:823:PRO:HB2	1.94	0.48
1:A:886:LEU:HD21	1:C:17:ILE:CG2	2.43	0.48
1:A:973:ARG:O	1:A:977:MET:HB2	2.13	0.48
1:A:1022:VAL:HG22	1:A:1023:PRO:HD3	1.96	0.48
1:B:2:PRO:HG3	1:B:435:MET:HG2	1.94	0.48
1:B:213:GLN:O	1:B:214:VAL:HG23	2.12	0.48
1:B:339:GLU:O	1:B:343:THR:HG23	2.13	0.48
1:B:956:GLU:H	1:B:956:GLU:CD	2.21	0.48
1:C:445:ILE:HB	1:C:940:LYS:HG3	1.95	0.48
1:C:815:ARG:HH11	1:C:815:ARG:HG3	1.78	0.48
1:C:942:ALA:HA	1:C:945:ILE:HG22	1.94	0.48
1:A:454:VAL:N	1:A:455:PRO:HD2	2.27	0.48
1:B:5:PHE:C	1:B:491:ALA:HB2	2.37	0.48
1:B:30:LEU:HD23	1:B:390:ILE:CD1	2.44	0.48
1:B:45:ILE:HD11	1:B:69:MET:HE3	1.94	0.48
1:B:219:LEU:HD23	1:C:783:PRO:CD	2.42	0.48
1:B:363:ARG:NH1	1:B:498:LYS:HD2	2.28	0.48
1:B:679:GLY:CA	1:B:830:GLN:HB3	2.42	0.48
1:B:776:GLU:O	1:B:777:ALA:O	2.30	0.48
1:B:907:LEU:C	1:B:910:ILE:HG22	2.38	0.48
1:B:1024:VAL:O	1:B:1025:PHE:CB	2.57	0.48
1:C:94:PHE:O	1:C:95:GLU:O	2.31	0.48
1:C:363:ARG:O	1:C:367:ILE:HG22	2.13	0.48
1:C:663:VAL:CG1	1:C:664:PHE:N	2.76	0.48
1:C:850:LYS:O	1:C:851:LEU:C	2.56	0.48
1:A:111:LEU:HD11	1:A:127:VAL:CG1	2.43	0.48
1:A:182:TYR:CB	1:A:270:LEU:HD12	2.43	0.48
1:B:6:ILE:N	1:B:491:ALA:HB2	2.28	0.48
1:B:115:MET:O	1:B:123:GLN:NE2	2.47	0.48
1:B:410:ILE:CG2	1:B:414:GLU:OE2	2.49	0.48
1:B:736:ALA:C	1:B:738:ALA:H	2.20	0.48
1:B:791:VAL:HG23	1:B:801:PHE:HE2	1.77	0.48
1:B:885:PHE:CE2	1:B:898:PRO:HB2	2.48	0.48
1:B:1017:LEU:N	1:B:1017:LEU:CD1	2.76	0.48
1:C:66:GLU:O	1:C:67:GLN:C	2.55	0.48
1:C:192:GLU:O	1:C:195:LYS:N	2.46	0.48
1:C:242:SER:O	1:C:243:THR:C	2.55	0.48
1:C:355:MET:CE	1:C:355:MET:CA	2.91	0.48
1:C:544:LEU:HD12	1:C:1021:PHE:HZ	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:872:GLN:HB2	1:C:875:SER:CB	2.37	0.48
1:C:911:GLY:HA3	1:C:1010:GLY:HA2	1.95	0.48
1:C:945:ILE:O	1:C:946:VAL:CG2	2.59	0.48
1:A:108:GLN:OE1	1:B:112:GLN:CD	2.56	0.48
1:A:193:LEU:CB	1:A:265:VAL:HG13	2.43	0.48
1:A:680:PHE:C	1:A:680:PHE:CD1	2.91	0.48
1:A:959:GLY:HA3	1:A:962:GLU:CB	2.24	0.48
1:B:84:SER:O	1:B:86:GLY:N	2.46	0.48
1:B:462:SER:O	1:B:465:ALA:HB3	2.12	0.48
1:B:641:GLU:HA	1:B:650:ARG:HH11	1.77	0.48
1:B:905:VAL:N	1:B:906:PRO:CD	2.76	0.48
1:B:941:ASN:HA	1:B:944:LEU:HD12	1.94	0.48
1:C:72:ILE:HG22	1:C:94:PHE:CE2	2.45	0.48
1:C:276:ASP:O	1:C:614:GLY:HA3	2.14	0.48
1:C:524:THR:O	1:C:527:TYR:HB3	2.14	0.48
1:A:219:LEU:HD12	1:A:232:ALA:HB3	1.96	0.48
1:A:356:TYR:C	1:A:358:PHE:N	2.71	0.48
1:A:676:THR:O	1:A:677:ALA:O	2.31	0.48
1:A:754:TRP:CZ3	1:A:780:ARG:HA	2.48	0.48
1:A:983:ILE:CG1	1:A:984:LEU:N	2.76	0.48
1:B:82:SER:HA	1:B:88:VAL:HG13	1.95	0.48
1:B:154:ILE:O	1:B:155:SER:C	2.57	0.48
1:B:1029:VAL:HA	1:B:1032:ARG:HB3	1.96	0.48
1:C:64:VAL:HG12	1:C:65:ILE:N	2.29	0.48
1:C:391:ASN:H	1:C:394:THR:HG23	1.77	0.48
1:C:549:VAL:O	1:C:550:VAL:C	2.56	0.48
1:C:831:ALA:HB2	1:C:840:ALA:HB2	1.93	0.48
1:C:950:LYS:HE2	1:C:1026:PHE:CZ	2.48	0.48
1:A:13:TRP:CZ2	1:A:492:LEU:HD11	2.49	0.48
1:A:276:ASP:CB	1:C:222:THR:HG23	2.21	0.48
1:A:284:GLN:HE21	1:A:284:GLN:CA	2.27	0.48
1:A:519:MET:N	1:A:522:LYS:HE3	2.29	0.48
1:B:423:GLU:O	1:B:424:GLY:O	2.32	0.48
1:B:767:ARG:HD3	1:B:769:LYS:CE	2.37	0.48
1:C:420:MET:SD	1:C:498:LYS:HG2	2.54	0.48
1:C:566:ASP:OD1	1:C:669:PRO:HA	2.14	0.48
1:C:762:PHE:CE1	1:C:769:LYS:HB2	2.49	0.48
1:A:138:MET:HE1	1:A:306:ILE:HB	1.94	0.48
1:A:166:ILE:O	1:A:168:ARG:N	2.47	0.48
1:A:418:ARG:NH1	1:A:973:ARG:HE	2.09	0.48
1:A:467:TYR:CE1	1:A:925:VAL:HG22	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:909:VAL:O	1:A:912:ALA:HB3	2.14	0.48
1:A:953:MET:HE1	1:A:960:LEU:O	2.13	0.48
1:A:983:ILE:O	1:A:986:VAL:HG12	2.13	0.48
1:A:1020:PHE:C	1:A:1023:PRO:HD2	2.39	0.48
1:C:55:LYS:HE2	1:C:59:ASP:OD1	2.14	0.48
1:C:389:SER:O	1:C:394:THR:HG21	2.14	0.48
1:C:894:SER:OG	1:C:897:ILE:HG13	2.14	0.48
1:A:33:ALA:HA	1:A:299:ALA:HB2	1.96	0.48
1:A:128:SER:HB3	1:B:113:LEU:HD22	1.94	0.48
1:A:270:LEU:N	1:A:270:LEU:CD2	2.77	0.48
1:A:355:MET:HE2	1:A:977:MET:HE1	1.96	0.48
1:A:577:GLN:CD	1:A:624:THR:HG22	2.39	0.48
1:A:687:GLN:HE21	1:A:856:GLY:HA3	1.78	0.48
1:A:947:GLU:C	1:A:949:ALA:N	2.69	0.48
1:A:990:VAL:O	1:A:991:ILE:CB	2.62	0.48
1:B:30:LEU:HD23	1:B:390:ILE:HD11	1.96	0.48
1:B:483:LEU:O	1:B:485:ALA:O	2.31	0.48
1:B:682:PHE:HD1	1:B:859:TRP:CZ3	2.31	0.48
1:B:901:VAL:HG13	1:B:942:ALA:HB3	1.95	0.48
1:B:1008:MET:HE2	1:B:1008:MET:HB3	1.81	0.48
1:C:338:HIS:C	1:C:338:HIS:HD1	2.21	0.48
1:C:476:SER:C	1:C:478:MET:N	2.67	0.48
1:C:1016:VAL:HA	1:C:1019:ILE:CG2	2.43	0.48
1:A:149:MET:HE3	1:A:154:ILE:HG12	1.95	0.48
1:A:445:ILE:HD13	1:A:940:LYS:HE3	1.95	0.48
1:A:541:TYR:C	1:A:543:VAL:O	2.57	0.48
1:A:575:MET:O	1:A:663:VAL:HA	2.14	0.48
1:A:695:LEU:HD12	1:A:695:LEU:HA	1.38	0.48
1:B:133:SER:HB3	1:B:292:LYS:HD2	1.96	0.48
1:B:474:ILE:HG22	1:B:475:VAL:N	2.29	0.48
1:B:485:ALA:C	1:B:487:ILE:H	2.22	0.48
1:C:162:MET:HE3	1:C:313:MET:HE2	1.94	0.48
1:C:355:MET:HA	1:C:355:MET:HE2	1.96	0.48
1:C:375:VAL:HG13	1:C:480:LEU:HB2	1.95	0.48
1:C:457:ALA:N	1:C:459:PHE:CE2	2.78	0.48
1:C:491:ALA:C	1:C:493:CYS:H	2.21	0.48
1:C:601:LYS:O	1:C:603:LYS:N	2.42	0.48
1:C:701:GLN:O	1:C:704:ALA:N	2.46	0.48
1:C:839:GLU:OE1	1:C:839:GLU:HA	2.14	0.48
1:C:989:LEU:HD12	1:C:1000:GLN:HB3	1.94	0.48
1:C:1007:VAL:O	1:C:1008:MET:C	2.56	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:36:PRO:CD	1:A:393:LEU:HD12	2.44	0.48
1:A:926:TYR:HE1	1:A:999:ALA:HB2	1.70	0.48
1:A:1015:THR:C	1:A:1017:LEU:N	2.70	0.48
1:B:193:LEU:HD23	1:B:265:VAL:HG21	1.96	0.48
1:B:953:MET:O	1:B:953:MET:CG	2.61	0.48
1:B:1021:PHE:O	1:B:1024:VAL:HB	2.14	0.48
1:C:184:MET:CE	1:C:270:LEU:HA	2.44	0.48
1:C:213:GLN:HE22	1:C:238:THR:HA	1.76	0.48
1:C:733:GLN:O	1:C:737:GLN:HG2	2.13	0.48
1:C:760:ASN:O	1:C:771:VAL:HG23	2.13	0.48
1:C:928:GLN:O	1:C:932:LEU:HG	2.13	0.48
1:A:214:VAL:CG1	1:A:215:ALA:N	2.51	0.47
1:A:379:THR:HG22	1:A:477:ALA:HA	1.96	0.47
1:A:413:VAL:HG23	1:A:493:CYS:CB	2.44	0.47
1:A:514:GLY:C	1:A:516:PHE:H	2.22	0.47
1:A:589:LYS:HA	1:A:592:ASN:ND2	2.29	0.47
1:A:818:ARG:CD	1:A:818:ARG:CB	2.82	0.47
1:A:843:LEU:C	1:A:845:GLU:N	2.69	0.47
1:A:907:LEU:O	1:A:910:ILE:HG13	2.13	0.47
1:B:10:ILE:HG13	1:C:893:GLU:HG3	1.96	0.47
1:B:47:ALA:CB	1:B:61:VAL:HG21	2.44	0.47
1:B:56:THR:O	1:B:60:THR:CB	2.62	0.47
1:B:183:ALA:N	1:B:271:GLY:O	2.46	0.47
1:B:405:LEU:C	1:B:405:LEU:CD1	2.86	0.47
1:C:344:LEU:HD23	1:C:399:VAL:CG2	2.43	0.47
1:C:389:SER:OG	1:C:391:ASN:ND2	2.42	0.47
1:A:65:ILE:C	1:A:65:ILE:HD12	2.37	0.47
1:A:351:VAL:CG1	1:A:410:ILE:HD11	2.45	0.47
1:A:569:GLN:HA	1:A:634:TRP:HH2	1.78	0.47
1:A:573:MET:SD	1:A:628:PHE:CE1	3.08	0.47
1:A:689:GLY:O	1:A:690:LEU:C	2.56	0.47
1:B:102:ILE:O	1:B:105:VAL:HB	2.14	0.47
1:B:324:VAL:C	1:B:326:PRO:HD2	2.38	0.47
1:B:490:PRO:C	1:B:492:LEU:H	2.22	0.47
1:B:530:SER:O	1:B:534:ILE:HG12	2.13	0.47
1:B:714:THR:O	1:B:715:SER:CB	2.61	0.47
1:B:912:ALA:HB1	1:B:1006:GLY:O	2.14	0.47
1:C:45:ILE:CA	1:C:45:ILE:HD13	2.43	0.47
1:C:549:VAL:C	1:C:551:GLY:H	2.21	0.47
1:A:54:ALA:CB	1:A:816:LEU:HG	2.20	0.47
1:A:116:PRO:HB2	1:A:117:LEU:HD22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:330:THR:HG23	1:A:334:LYS:HZ3	1.78	0.47
1:A:402:ILE:O	1:A:405:LEU:HD13	2.15	0.47
1:A:540:ARG:O	1:A:543:VAL:HG12	2.14	0.47
1:A:820:ASN:O	1:A:822:LEU:HD23	2.13	0.47
1:A:843:LEU:HD23	1:A:846:GLN:NE2	2.29	0.47
1:B:6:ILE:HA	1:B:491:ALA:CB	2.44	0.47
1:B:6:ILE:N	1:B:6:ILE:HD13	2.29	0.47
1:B:339:GLU:HB3	1:B:1000:GLN:NE2	2.29	0.47
1:B:413:VAL:HG13	1:B:414:GLU:H	1.76	0.47
1:B:531:VAL:O	1:B:535:LEU:HD23	2.14	0.47
1:B:545:TYR:O	1:B:546:LEU:C	2.57	0.47
1:B:712:MET:HG2	1:B:843:LEU:HD12	1.96	0.47
1:B:876:LEU:O	1:B:880:SER:HB2	2.14	0.47
1:B:905:VAL:O	1:B:909:VAL:HG22	2.15	0.47
1:B:1031:ARG:H	1:B:1034:SER:HG	1.56	0.47
1:C:352:PHE:CE1	1:C:365:THR:HG22	2.49	0.47
1:C:414:GLU:HG3	1:C:414:GLU:O	2.14	0.47
1:C:764:ASP:HB3	1:C:769:LYS:HZ2	1.79	0.47
1:C:865:GLN:O	1:C:868:LEU:O	2.33	0.47
1:C:989:LEU:HD12	1:C:1000:GLN:CA	2.44	0.47
1:A:268:ILE:N	1:A:268:ILE:HD12	2.28	0.47
1:A:410:ILE:HG22	1:A:411:VAL:N	2.29	0.47
1:A:466:ILE:O	1:A:469:GLN:N	2.46	0.47
1:A:809:TRP:O	1:A:810:GLU:HB3	2.13	0.47
1:A:837:THR:HG22	1:A:841:MET:HE3	1.96	0.47
1:A:952:LEU:HD11	1:A:963:ALA:CB	2.44	0.47
1:B:219:LEU:HD12	1:B:234:ILE:CD1	2.44	0.47
1:B:271:GLY:HA3	1:B:275:TYR:OH	2.15	0.47
1:C:427:PRO:N	1:C:498:LYS:HE3	2.29	0.47
1:C:591:LEU:HD13	1:C:591:LEU:HA	1.44	0.47
1:A:140:VAL:HG11	1:A:310:LEU:HD11	1.95	0.47
1:A:456:MET:HB2	1:A:471:SER:HB2	1.97	0.47
1:A:711:ASP:C	1:A:713:LEU:H	2.22	0.47
1:A:841:MET:O	1:A:844:MET:HB3	2.15	0.47
1:A:922:THR:C	1:A:924:ASP:H	2.22	0.47
1:B:49:TYR:CD1	1:B:122:VAL:CG1	2.83	0.47
1:B:136:PHE:HE1	1:B:617:PHE:CE1	2.32	0.47
1:B:184:MET:HB2	1:B:762:PHE:CE2	2.49	0.47
1:B:690:LEU:HB2	1:B:694:LYS:HB3	1.97	0.47
1:B:703:LEU:HA	1:B:706:ALA:HB3	1.96	0.47
1:B:978:THR:HG22	1:B:979:SER:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:65:ILE:HD13	1:C:111:LEU:CD2	2.42	0.47
1:C:251:LEU:HD11	1:C:262:LEU:HA	1.95	0.47
1:C:398:MET:O	1:C:401:ALA:HB3	2.14	0.47
1:A:104:GLN:HE22	1:B:109:ASN:HB3	1.78	0.47
1:A:750:LEU:C	1:A:750:LEU:HD13	2.40	0.47
1:A:922:THR:O	1:A:924:ASP:N	2.42	0.47
1:B:12:ALA:O	1:B:14:VAL:N	2.48	0.47
1:C:114:ALA:O	1:C:115:MET:O	2.32	0.47
1:C:317:PHE:O	1:C:318:PRO:C	2.55	0.47
1:C:899:PHE:HD1	1:C:899:PHE:H	1.54	0.47
1:C:982:PHE:O	1:C:983:ILE:C	2.57	0.47
1:A:154:ILE:HG22	1:A:287:SER:HB3	1.97	0.47
1:A:225:VAL:HG22	1:B:778:LYS:NZ	2.30	0.47
1:A:453:PHE:CZ	1:A:474:ILE:HG21	2.49	0.47
1:A:583:THR:HG23	1:A:622:GLN:HE21	1.80	0.47
1:A:736:ALA:O	1:A:741:VAL:HG13	2.13	0.47
1:A:924:ASP:O	1:A:925:VAL:C	2.58	0.47
1:B:49:TYR:CD1	1:B:122:VAL:HA	2.48	0.47
1:B:449:LEU:HB2	1:B:478:MET:HG3	1.97	0.47
1:B:560:PRO:O	1:B:923:ASN:CB	2.63	0.47
1:B:566:ASP:O	1:B:567:GLU:C	2.57	0.47
1:B:578:LEU:HD12	1:B:586:ARG:HH21	1.70	0.47
1:B:640:GLU:N	1:B:643:LYS:HG3	2.29	0.47
1:C:344:LEU:CD2	1:C:399:VAL:HG23	2.44	0.47
1:C:423:GLU:HB3	1:C:426:PRO:CD	2.43	0.47
1:C:698:ALA:O	1:C:851:LEU:HD23	2.14	0.47
1:C:767:ARG:HG2	1:C:769:LYS:HD3	1.96	0.47
1:C:904:VAL:O	1:C:906:PRO:N	2.48	0.47
1:A:26:ALA:O	1:A:30:LEU:HG	2.15	0.47
1:A:371:ALA:O	1:A:372:VAL:C	2.57	0.47
1:A:689:GLY:O	1:A:690:LEU:O	2.33	0.47
1:B:568:ASP:OD2	1:B:634:TRP:HZ3	1.98	0.47
1:B:669:PRO:HB2	1:B:862:MET:HE2	1.96	0.47
1:B:867:ARG:O	1:B:871:ASN:ND2	2.48	0.47
1:B:918:PHE:O	1:B:919:ARG:O	2.32	0.47
1:C:34:GLN:HG2	1:C:333:VAL:HG21	1.96	0.47
1:C:445:ILE:CD1	1:C:940:LYS:HE3	2.44	0.47
1:A:146:ASP:O	1:A:148:THR:N	2.48	0.47
1:A:574:THR:OG1	1:A:627:ALA:HB3	2.14	0.47
1:A:592:ASN:O	1:A:595:THR:HB	2.15	0.47
1:A:948:PHE:N	1:A:948:PHE:CD2	2.81	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:121:GLU:O	1:B:125:GLN:HB3	2.14	0.47
1:B:210:GLN:CG	1:B:249:ILE:HG23	2.41	0.47
1:B:404:LEU:HD21	1:B:937:LEU:HD21	1.97	0.47
1:B:419:VAL:O	1:B:426:PRO:CG	2.59	0.47
1:B:484:VAL:C	1:B:485:ALA:O	2.56	0.47
1:B:960:LEU:HD11	1:B:1027:VAL:HG11	1.96	0.47
1:B:1004:GLY:O	1:B:1007:VAL:HG12	2.14	0.47
1:B:1017:LEU:O	1:B:1021:PHE:HB2	2.15	0.47
1:C:586:ARG:O	1:C:589:LYS:HB2	2.15	0.47
1:C:830:GLN:OE1	1:C:832:ALA:HA	2.14	0.47
1:A:57:VAL:O	1:A:57:VAL:CG1	2.56	0.47
1:A:434:SER:O	1:A:436:GLY:N	2.47	0.47
1:A:911:GLY:C	1:A:1010:GLY:H	2.23	0.47
1:B:249:ILE:HD12	1:B:262:LEU:HD12	1.97	0.47
1:B:374:VAL:HG13	1:B:484:VAL:HG21	1.96	0.47
1:B:408:ASP:C	1:B:410:ILE:N	2.68	0.47
1:B:655:PHE:C	1:B:658:ILE:CG1	2.88	0.47
1:B:1030:ARG:C	1:B:1032:ARG:H	2.22	0.47
1:C:54:ALA:H	1:C:57:VAL:HG23	1.80	0.47
1:C:244:GLU:CA	1:C:263:ARG:HH22	2.21	0.47
1:C:276:ASP:C	1:C:277:ILE:HG13	2.40	0.47
1:C:446:ALA:C	1:C:448:VAL:H	2.23	0.47
1:C:699:ARG:NH2	1:C:722:GLU:OE1	2.44	0.47
1:C:713:LEU:CD2	1:C:832:ALA:O	2.62	0.47
1:C:750:LEU:HA	1:C:750:LEU:HD23	1.51	0.47
1:C:1024:VAL:O	1:C:1025:PHE:C	2.56	0.47
1:A:520:PHE:O	1:A:522:LYS:N	2.48	0.46
1:A:615:PHE:HE1	1:A:628:PHE:HZ	1.63	0.46
1:A:975:ILE:O	1:A:976:LEU:C	2.59	0.46
1:B:314:GLU:C	1:B:316:PHE:N	2.70	0.46
1:B:391:ASN:OD1	1:B:394:THR:N	2.47	0.46
1:B:410:ILE:O	1:B:414:GLU:HG2	2.15	0.46
1:B:970:MET:HA	1:B:970:MET:CE	2.40	0.46
1:C:69:MET:HE3	1:C:69:MET:HB3	1.43	0.46
1:C:449:LEU:O	1:C:452:VAL:HG23	2.15	0.46
1:C:599:LEU:O	1:C:603:LYS:HB2	2.15	0.46
1:C:1030:ARG:HA	1:C:1033:PHE:HD2	1.79	0.46
1:A:10:ILE:HD11	1:B:895:TRP:CD1	2.49	0.46
1:A:45:ILE:HG12	1:A:129:VAL:HG22	1.97	0.46
1:A:65:ILE:HG13	1:A:66:GLU:N	2.29	0.46
1:A:190:PRO:HD3	1:A:789:TRP:CZ2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:GLY:O	1:A:263:ARG:HB2	2.15	0.46
1:A:292:LYS:O	1:A:293:LEU:O	2.33	0.46
1:A:328:ASP:OD1	1:A:328:ASP:C	2.59	0.46
1:A:335:ILE:O	1:A:339:GLU:HG2	2.15	0.46
1:A:813:SER:OG	1:A:816:LEU:HD23	2.15	0.46
1:A:865:GLN:O	1:A:866:GLU:C	2.58	0.46
1:A:930:GLY:O	1:A:932:LEU:N	2.48	0.46
1:A:945:ILE:O	1:A:949:ALA:HB2	2.15	0.46
1:B:8:ARG:HD2	1:B:8:ARG:N	2.29	0.46
1:B:814:PRO:O	1:B:815:ARG:HG2	2.14	0.46
1:B:898:PRO:O	1:B:899:PHE:C	2.56	0.46
1:B:1022:VAL:N	1:B:1023:PRO:HD2	2.29	0.46
1:C:137:LEU:C	1:C:137:LEU:CD2	2.87	0.46
1:C:376:LEU:HD22	1:C:398:MET:HE2	1.98	0.46
1:C:545:TYR:CE1	1:C:1021:PHE:CD1	3.03	0.46
1:A:17:ILE:O	1:A:18:ILE:C	2.56	0.46
1:A:115:MET:C	1:A:117:LEU:H	2.23	0.46
1:A:189:ASN:O	1:A:189:ASN:CG	2.56	0.46
1:A:199:THR:CB	1:A:200:PRO:CD	2.93	0.46
1:A:332:PHE:C	1:A:332:PHE:CD2	2.93	0.46
1:A:568:ASP:OD2	1:A:644:VAL:HG23	2.15	0.46
1:B:862:MET:O	1:B:865:GLN:HB3	2.15	0.46
1:B:909:VAL:HG12	1:B:931:LEU:HD22	1.97	0.46
1:B:1024:VAL:CG1	1:B:1028:VAL:HG21	2.45	0.46
1:C:685:ILE:HD12	1:C:686:ASP:C	2.40	0.46
1:A:456:MET:HE1	1:A:929:VAL:CG2	2.45	0.46
1:B:699:ARG:NH2	1:B:722:GLU:OE1	2.49	0.46
1:C:355:MET:HE3	1:C:355:MET:CA	2.45	0.46
1:C:547:ILE:O	1:C:550:VAL:HG12	2.15	0.46
1:C:549:VAL:O	1:C:551:GLY:N	2.47	0.46
1:C:680:PHE:HE1	1:C:844:MET:HE2	1.80	0.46
1:C:874:PRO:HG2	1:C:875:SER:H	1.81	0.46
1:A:11:PHE:O	1:A:13:TRP:N	2.49	0.46
1:A:162:MET:HB2	1:A:313:MET:SD	2.56	0.46
1:A:243:THR:HG21	1:A:269:GLU:HA	1.97	0.46
1:A:690:LEU:CD1	1:A:854:GLY:CA	2.71	0.46
1:A:1004:GLY:O	1:A:1006:GLY:N	2.49	0.46
1:B:8:ARG:H	1:B:9:PRO:HD3	1.80	0.46
1:B:118:LEU:HD23	1:B:122:VAL:HG11	1.97	0.46
1:B:708:LYS:HD2	1:B:709:HIS:NE2	2.30	0.46
1:C:74:ASN:HB3	1:C:95:GLU:CB	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:193:LEU:HB3	1:C:198:LEU:O	2.15	0.46
1:C:243:THR:OG1	1:C:244:GLU:N	2.49	0.46
1:C:360:GLN:OE1	1:C:516:PHE:HE2	1.99	0.46
1:C:391:ASN:O	1:C:394:THR:HG22	2.16	0.46
1:C:407:ASP:OD2	1:C:940:LYS:NZ	2.41	0.46
1:C:445:ILE:HD12	1:C:446:ALA:N	2.30	0.46
1:C:904:VAL:C	1:C:906:PRO:HD2	2.40	0.46
1:C:1035:ARG:HA	1:C:1035:ARG:NE	2.26	0.46
1:A:264:ASP:O	1:A:266:ALA:N	2.49	0.46
1:A:534:ILE:HD12	1:A:540:ARG:HH22	1.81	0.46
1:A:655:PHE:O	1:A:658:ILE:HG12	2.16	0.46
1:B:49:TYR:CG	1:B:122:VAL:HG22	2.50	0.46
1:B:199:THR:HB	1:B:200:PRO:HD2	1.98	0.46
1:B:555:LEU:H	1:B:555:LEU:CD2	2.23	0.46
1:C:23:GLY:HA3	1:C:377:LEU:O	2.16	0.46
1:C:368:PRO:HG3	1:C:413:VAL:HG11	1.96	0.46
1:C:545:TYR:OH	1:C:1021:PHE:CD2	2.62	0.46
1:C:657:GLN:HB3	1:C:658:ILE:HD12	1.98	0.46
1:C:699:ARG:HD2	1:C:703:LEU:HD11	1.98	0.46
1:A:102:ILE:HA	1:A:105:VAL:HG23	1.98	0.46
1:A:298:ASN:CB	1:A:301:ASP:OD1	2.61	0.46
1:A:324:VAL:CG1	1:A:325:TYR:H	2.21	0.46
1:A:472:ILE:O	1:A:473:THR:C	2.59	0.46
1:A:572:PHE:N	1:A:572:PHE:HD1	2.13	0.46
1:A:701:GLN:OE1	1:A:852:PRO:HD3	2.15	0.46
1:A:713:LEU:O	1:A:714:THR:CB	2.64	0.46
1:B:120:GLN:CG	1:B:124:GLN:HG2	2.43	0.46
1:B:309:GLU:O	1:B:312:LYS:HB2	2.15	0.46
1:B:355:MET:HG2	1:B:410:ILE:HD11	1.98	0.46
1:C:974:PRO:O	1:C:975:ILE:C	2.59	0.46
1:A:133:SER:HB3	1:A:136:PHE:HD1	1.79	0.46
1:A:133:SER:HG	1:A:136:PHE:HE1	1.62	0.46
1:A:221:GLY:C	1:A:222:THR:O	2.54	0.46
1:A:279:ALA:HA	1:A:612:VAL:HG12	1.97	0.46
1:A:837:THR:CG2	1:A:841:MET:HE3	2.45	0.46
1:A:1021:PHE:HB3	1:A:1025:PHE:CE1	2.51	0.46
1:B:49:TYR:OH	1:B:127:VAL:N	2.49	0.46
1:B:193:LEU:HA	1:B:265:VAL:HG21	1.98	0.46
1:B:514:GLY:HA2	1:B:517:ASN:HD22	1.81	0.46
1:B:655:PHE:HA	1:B:658:ILE:HG12	1.97	0.46
1:B:764:ASP:OD1	1:B:764:ASP:C	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:987:MET:CE	1:B:987:MET:O	2.64	0.46
1:C:35:TYR:CG	1:C:671:ILE:HG12	2.50	0.46
1:C:44:THR:HG22	1:C:91:THR:HA	1.98	0.46
1:C:452:VAL:CG1	1:C:935:ILE:HG22	2.46	0.46
1:C:536:ARG:HH11	1:C:961:ILE:CD1	2.07	0.46
1:C:592:ASN:ND2	1:C:592:ASN:H	2.14	0.46
1:A:269:GLU:O	1:A:269:GLU:HG2	2.16	0.46
1:A:277:ILE:C	1:A:277:ILE:CD1	2.88	0.46
1:A:346:GLU:O	1:A:347:ALA:C	2.57	0.46
1:A:405:LEU:HD22	1:A:405:LEU:C	2.39	0.46
1:A:537:SER:O	1:A:539:GLY:N	2.48	0.46
1:A:600:THR:O	1:A:600:THR:CG2	2.62	0.46
1:A:600:THR:O	1:A:601:LYS:HB2	2.16	0.46
1:A:621:GLY:O	1:A:623:ASN:N	2.49	0.46
1:A:897:ILE:HG21	1:A:950:LYS:NZ	2.31	0.46
1:A:904:VAL:O	1:A:905:VAL:C	2.59	0.46
1:A:930:GLY:O	1:A:931:LEU:C	2.57	0.46
1:B:189:ASN:HD22	1:B:190:PRO:CD	2.28	0.46
1:B:686:ASP:CB	1:B:823:PRO:O	2.63	0.46
1:B:722:GLU:O	1:B:814:PRO:CG	2.64	0.46
1:B:882:ILE:HG22	1:B:886:LEU:HD11	1.98	0.46
1:B:913:LEU:O	1:B:917:THR:OG1	2.25	0.46
1:C:467:TYR:CZ	1:C:925:VAL:HG12	2.51	0.46
1:C:730:ASP:OD1	1:C:730:ASP:O	2.34	0.46
1:A:83:ASP:HA	1:A:815:ARG:HA	1.98	0.46
1:A:111:LEU:HD11	1:A:127:VAL:HG11	1.98	0.46
1:A:421:ALA:O	1:A:423:GLU:N	2.48	0.46
1:A:466:ILE:O	1:A:469:GLN:CB	2.61	0.46
1:A:515:TRP:CA	1:A:519:MET:SD	2.97	0.46
1:B:129:VAL:H	1:C:109:ASN:HD21	1.63	0.46
1:B:613:ASN:O	1:B:625:GLY:HA2	2.16	0.46
1:B:646:ALA:O	1:B:648:THR:N	2.48	0.46
1:B:701:GLN:HG3	1:B:851:LEU:HD22	1.98	0.46
1:C:155:SER:HB3	1:C:180:SER:H	1.79	0.46
1:C:452:VAL:HG11	1:C:935:ILE:HG22	1.98	0.46
1:C:598:TYR:HB3	1:C:606:VAL:HG11	1.98	0.46
1:C:818:ARG:HA	1:C:824:SER:H	1.81	0.46
1:C:1010:GLY:CA	1:C:1013:THR:HG22	2.46	0.46
1:A:281:PHE:O	1:A:282:ASN:C	2.57	0.45
1:A:342:LYS:HG3	1:A:343:THR:N	2.32	0.45
1:A:427:PRO:HG3	1:A:497:LEU:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:SER:O	1:A:534:ILE:HG12	2.16	0.45
1:B:347:ALA:HB1	1:B:402:ILE:HG21	1.97	0.45
1:B:355:MET:HE1	1:B:368:PRO:C	2.41	0.45
1:B:771:VAL:O	1:B:771:VAL:CG1	2.37	0.45
1:B:870:GLY:O	1:B:872:GLN:N	2.49	0.45
1:B:900:SER:O	1:B:903:LEU:HB2	2.16	0.45
1:C:2:PRO:O	1:C:3:ASN:C	2.58	0.45
1:C:45:ILE:HG23	1:C:45:ILE:HD12	1.71	0.45
1:C:218:GLN:CG	1:C:232:ALA:O	2.65	0.45
1:C:353:LEU:O	1:C:356:TYR:CB	2.65	0.45
1:C:379:THR:HG23	1:C:477:ALA:HB2	1.96	0.45
1:C:560:PRO:O	1:C:922:THR:HG22	2.13	0.45
1:C:873:ALA:O	1:C:874:PRO:C	2.58	0.45
1:C:938:SER:O	1:C:941:ASN:ND2	2.49	0.45
1:A:310:LEU:C	1:A:311:ALA:O	2.56	0.45
1:A:461:GLY:O	1:A:462:SER:C	2.58	0.45
1:A:868:LEU:HB3	1:A:869:SER:H	1.61	0.45
1:B:71:GLY:O	1:B:72:ILE:C	2.60	0.45
1:B:354:VAL:C	1:B:356:TYR:H	2.24	0.45
1:B:419:VAL:O	1:B:419:VAL:HG12	2.16	0.45
1:B:489:THR:N	1:B:490:PRO:HD2	2.30	0.45
1:B:534:ILE:HG23	1:B:541:TYR:CE1	2.51	0.45
1:C:445:ILE:O	1:C:448:VAL:N	2.47	0.45
1:C:907:LEU:O	1:C:910:ILE:CG2	2.61	0.45
1:C:915:ALA:O	1:C:919:ARG:N	2.44	0.45
1:A:62:THR:O	1:A:63:GLN:C	2.57	0.45
1:A:105:VAL:HB	1:A:106:GLN:H	1.56	0.45
1:A:189:ASN:HB2	1:A:779:TYR:CE2	2.52	0.45
1:A:353:LEU:C	1:A:354:VAL:O	2.57	0.45
1:A:579:PRO:O	1:A:580:ALA:C	2.60	0.45
1:A:758:TYR:HB2	1:A:772:TYR:CE2	2.52	0.45
1:A:843:LEU:O	1:A:844:MET:C	2.59	0.45
1:A:892:TYR:O	1:A:893:GLU:HG3	2.15	0.45
1:B:663:VAL:O	1:B:663:VAL:HG12	2.16	0.45
1:C:69:MET:CE	1:C:92:LEU:HD21	2.45	0.45
1:C:279:ALA:C	1:C:280:GLU:CG	2.89	0.45
1:C:299:ALA:O	1:C:300:LEU:C	2.56	0.45
1:C:696:THR:O	1:C:699:ARG:N	2.49	0.45
1:C:705:GLU:O	1:C:708:LYS:N	2.45	0.45
1:C:897:ILE:HG12	1:C:950:LYS:CE	2.47	0.45
1:C:1028:VAL:O	1:C:1032:ARG:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:200:PRO:O	1:A:203:VAL:HB	2.16	0.45
1:A:218:GLN:HB3	1:A:231:ASN:HD21	1.81	0.45
1:A:354:VAL:HG13	1:A:980:LEU:HD23	1.97	0.45
1:A:729:ILE:CG2	1:A:730:ASP:N	2.50	0.45
1:B:125:GLN:O	1:B:125:GLN:HG3	2.16	0.45
1:B:199:THR:HB	1:B:749:THR:HG22	1.98	0.45
1:B:240:LEU:HB2	1:B:246:PHE:CE2	2.52	0.45
1:B:714:THR:HG22	1:B:831:ALA:N	2.31	0.45
1:B:847:LEU:N	1:B:847:LEU:CD2	2.73	0.45
1:C:444:GLY:O	1:C:445:ILE:C	2.59	0.45
1:C:527:TYR:C	1:C:529:ASP:H	2.24	0.45
1:C:545:TYR:CZ	1:C:1021:PHE:CD2	3.05	0.45
1:C:709:HIS:C	1:C:711:ASP:N	2.72	0.45
1:C:900:SER:HA	1:C:1029:VAL:HG21	1.98	0.45
1:C:925:VAL:O	1:C:926:TYR:HB2	2.17	0.45
1:C:1015:THR:O	1:C:1019:ILE:HB	2.16	0.45
1:A:541:TYR:N	1:A:541:TYR:HD2	2.15	0.45
1:A:846:GLN:HE21	1:A:846:GLN:HB2	1.48	0.45
1:A:1019:ILE:O	1:A:1023:PRO:HG3	2.16	0.45
1:B:149:MET:HB2	1:B:154:ILE:HG23	1.99	0.45
1:B:558:ARG:NH2	1:B:917:THR:OG1	2.48	0.45
1:B:714:THR:HG22	1:B:830:GLN:C	2.42	0.45
1:B:927:PHE:O	1:B:930:GLY:N	2.50	0.45
1:B:1022:VAL:CG2	1:B:1023:PRO:HD3	2.35	0.45
1:C:29:LYS:HB3	1:C:29:LYS:HE2	1.73	0.45
1:C:314:GLU:HA	1:C:317:PHE:CZ	2.51	0.45
1:C:372:VAL:CG1	1:C:373:PRO:HD3	2.28	0.45
1:C:417:GLU:HB3	1:C:973:ARG:NH1	2.26	0.45
1:C:748:THR:O	1:C:752:ALA:HB2	2.16	0.45
1:C:910:ILE:HG22	1:C:911:GLY:H	1.81	0.45
1:C:986:VAL:O	1:C:986:VAL:HG12	2.17	0.45
1:A:2:PRO:O	1:A:6:ILE:N	2.48	0.45
1:A:17:ILE:HG22	1:A:21:LEU:CD2	2.46	0.45
1:A:193:LEU:HD12	1:A:265:VAL:CG1	2.47	0.45
1:A:235:ILE:O	1:A:235:ILE:HG22	2.16	0.45
1:A:488:LEU:HG	1:A:492:LEU:HD22	1.99	0.45
1:A:532:GLY:HA2	1:A:965:LEU:CD1	2.46	0.45
1:A:548:ILE:O	1:A:551:GLY:N	2.49	0.45
1:A:643:LYS:NZ	1:A:995:ALA:HB2	2.31	0.45
1:B:66:GLU:HG3	1:B:78:MET:SD	2.57	0.45
1:B:100:ALA:HA	1:B:103:ALA:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:189:ASN:O	1:B:193:LEU:HB2	2.16	0.45
1:B:314:GLU:HB2	1:B:315:PRO:HD3	1.98	0.45
1:B:518:ARG:C	1:B:520:PHE:N	2.75	0.45
1:C:58:GLN:CD	1:C:82:SER:CB	2.89	0.45
1:C:454:VAL:O	1:C:456:MET:O	2.35	0.45
1:C:527:TYR:O	1:C:529:ASP:N	2.50	0.45
1:C:801:PHE:CD1	1:C:804:PHE:HE1	2.34	0.45
1:A:8:ARG:O	1:A:8:ARG:HG3	2.16	0.45
1:A:14:VAL:CG1	1:B:886:LEU:HB3	2.46	0.45
1:A:336:SER:O	1:A:337:ILE:C	2.55	0.45
1:A:355:MET:HE1	1:A:410:ILE:HG12	1.96	0.45
1:A:758:TYR:CE1	1:A:770:LYS:HG2	2.52	0.45
1:A:819:TYR:O	1:A:822:LEU:N	2.42	0.45
1:A:979:SER:O	1:A:983:ILE:CG2	2.65	0.45
1:B:10:ILE:O	1:B:11:PHE:C	2.60	0.45
1:B:70:ASN:ND2	1:B:70:ASN:O	2.50	0.45
1:B:531:VAL:CG1	1:B:965:LEU:HD11	2.47	0.45
1:B:609:VAL:O	1:B:609:VAL:HG12	2.17	0.45
1:B:671:ILE:H	1:B:671:ILE:HG12	1.51	0.45
1:C:49:TYR:CD2	1:C:52:ALA:HB2	2.51	0.45
1:C:443:VAL:O	1:C:447:MET:HB2	2.17	0.45
1:C:527:TYR:CZ	1:C:1019:ILE:HG13	2.52	0.45
1:C:559:LEU:HD13	1:C:917:THR:CG2	2.46	0.45
1:C:760:ASN:C	1:C:760:ASN:OD1	2.59	0.45
1:C:1030:ARG:HE	1:C:1030:ARG:HB3	1.32	0.45
1:A:56:THR:O	1:A:56:THR:CG2	2.59	0.45
1:A:200:PRO:HG2	1:A:749:THR:HG23	1.98	0.45
1:A:308:ALA:HB1	1:A:312:LYS:HE3	1.99	0.45
1:A:780:ARG:NH2	1:C:223:PRO:O	2.48	0.45
1:B:23:GLY:C	1:B:25:LEU:H	2.25	0.45
1:B:42:ALA:HA	1:B:93:THR:HA	1.99	0.45
1:B:55:LYS:O	1:B:56:THR:C	2.59	0.45
1:B:78:MET:HG3	1:B:92:LEU:HD13	1.99	0.45
1:B:111:LEU:HD21	1:B:127:VAL:CG1	2.47	0.45
1:B:122:VAL:O	1:B:123:GLN:C	2.60	0.45
1:B:130:GLU:O	1:B:131:LYS:O	2.35	0.45
1:B:199:THR:C	1:B:201:VAL:H	2.24	0.45
1:B:714:THR:HG22	1:B:831:ALA:CA	2.47	0.45
1:B:792:ARG:CG	1:B:798:MET:HE1	2.46	0.45
1:C:9:PRO:C	1:C:11:PHE:H	2.24	0.45
1:C:81:ASN:OD1	1:C:815:ARG:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:144:ASN:CG	1:C:149:MET:HG3	2.42	0.45
1:C:197:GLN:CA	1:C:798:MET:HE3	2.47	0.45
1:C:331:PRO:O	1:C:332:PHE:C	2.56	0.45
1:C:380:PHE:CZ	1:C:398:MET:SD	3.10	0.45
1:C:401:ALA:HB2	1:C:474:ILE:HG12	1.98	0.45
1:C:663:VAL:HG12	1:C:664:PHE:N	2.32	0.45
1:C:742:SER:OG	1:C:745:ASP:HB2	2.17	0.45
1:C:753:ALA:O	1:C:775:SER:CB	2.65	0.45
1:C:871:ASN:O	1:C:872:GLN:O	2.35	0.45
1:A:106:GLN:O	1:A:107:VAL:O	2.35	0.45
1:A:305:ALA:O	1:A:308:ALA:HB3	2.17	0.45
1:A:651:ALA:O	1:A:652:THR:C	2.60	0.45
1:A:676:THR:OG1	1:A:677:ALA:N	2.46	0.45
1:A:750:LEU:O	1:A:750:LEU:HD22	2.17	0.45
1:A:897:ILE:O	1:A:900:SER:OG	2.23	0.45
1:B:76:MET:HG2	1:B:95:GLU:HG3	1.99	0.45
1:B:198:LEU:HD23	1:B:792:ARG:NH2	2.31	0.45
1:B:391:ASN:OD1	1:B:391:ASN:C	2.58	0.45
1:B:541:TYR:C	1:B:543:VAL:N	2.73	0.45
1:B:543:VAL:O	1:B:547:ILE:HD11	2.14	0.45
1:B:640:GLU:H	1:B:643:LYS:HG3	1.81	0.45
1:B:921:LEU:HD21	1:B:1005:THR:CG2	2.45	0.45
1:C:82:SER:HB2	1:C:88:VAL:HA	1.97	0.45
1:C:313:MET:O	1:C:316:PHE:HD1	2.00	0.45
1:C:410:ILE:O	1:C:411:VAL:C	2.59	0.45
1:C:484:VAL:O	1:C:488:LEU:N	2.50	0.45
1:C:712:MET:CB	1:C:835:LYS:HG3	2.26	0.45
1:C:758:TYR:HA	1:C:772:TYR:HA	1.98	0.45
1:C:778:LYS:O	1:C:779:TYR:HD2	1.99	0.45
1:C:819:TYR:CE1	1:C:820:ASN:ND2	2.85	0.45
1:C:888:LEU:HB3	1:C:898:PRO:CB	2.41	0.45
1:A:10:ILE:HD11	1:B:895:TRP:CG	2.52	0.45
1:A:344:LEU:HD13	1:A:376:LEU:HD12	1.99	0.45
1:A:549:VAL:HG13	1:A:550:VAL:N	2.32	0.45
1:A:621:GLY:C	1:A:623:ASN:N	2.68	0.45
1:A:923:ASN:OD1	1:A:923:ASN:O	2.36	0.45
1:A:925:VAL:O	1:A:926:TYR:C	2.57	0.45
1:A:953:MET:HE2	1:A:960:LEU:HA	1.99	0.45
1:A:991:ILE:HD13	1:A:1008:MET:CG	2.40	0.45
1:A:991:ILE:HG13	1:A:1004:GLY:HA3	1.98	0.45
1:B:157:TYR:O	1:B:161:ASN:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:221:GLY:HA3	1:C:780:ARG:HH11	1.82	0.45
1:B:223:PRO:HG2	1:C:780:ARG:HH22	1.81	0.45
1:B:330:THR:H	1:B:331:PRO:CD	2.29	0.45
1:B:570:GLY:N	1:B:634:TRP:CH2	2.85	0.45
1:B:638:PRO:CG	1:B:639:GLY:N	2.80	0.45
1:B:864:TYR:C	1:B:864:TYR:HD1	2.24	0.45
1:C:9:PRO:C	1:C:10:ILE:HG12	2.40	0.45
1:C:115:MET:SD	1:C:127:VAL:HG11	2.57	0.45
1:C:372:VAL:HG21	1:C:402:ILE:HG23	1.99	0.45
1:C:532:GLY:O	1:C:533:GLY:C	2.60	0.45
1:C:873:ALA:N	1:C:874:PRO:HD2	2.32	0.45
1:A:525:HIS:O	1:A:526:HIS:C	2.60	0.44
1:A:775:SER:OG	1:A:780:ARG:HG2	2.17	0.44
1:B:49:TYR:CE2	1:B:125:GLN:HB3	2.52	0.44
1:B:124:GLN:O	1:B:125:GLN:CB	2.63	0.44
1:B:219:LEU:HD21	1:C:783:PRO:HG3	1.93	0.44
1:B:418:ARG:NH2	1:B:970:MET:CG	2.78	0.44
1:B:564:LEU:HD23	1:B:565:PRO:HD2	1.99	0.44
1:B:703:LEU:O	1:B:704:ALA:C	2.61	0.44
1:B:944:LEU:CB	1:B:975:ILE:HD11	2.47	0.44
1:C:934:THR:C	1:C:936:GLY:N	2.73	0.44
1:A:128:SER:HB2	1:B:113:LEU:CD2	2.48	0.44
1:A:173:GLY:O	1:A:174:ASP:CB	2.65	0.44
1:A:180:SER:O	1:A:181:GLN:CB	2.65	0.44
1:A:451:ALA:C	1:A:452:VAL:HG22	2.37	0.44
1:A:595:THR:HA	1:A:609:VAL:HG21	1.99	0.44
1:A:978:THR:C	1:A:980:LEU:N	2.72	0.44
1:A:991:ILE:O	1:A:991:ILE:CG2	2.65	0.44
1:B:34:GLN:HB2	1:B:333:VAL:HG22	1.98	0.44
1:B:78:MET:HE3	1:B:78:MET:HB3	1.80	0.44
1:B:97:GLY:O	1:B:98:THR:O	2.36	0.44
1:B:198:LEU:HD11	1:B:252:LYS:HB2	1.99	0.44
1:B:470:PHE:O	1:B:471:SER:C	2.60	0.44
1:B:531:VAL:O	1:B:535:LEU:CD2	2.65	0.44
1:B:535:LEU:O	1:B:538:THR:N	2.50	0.44
1:B:600:THR:OG1	1:B:601:LYS:CE	2.65	0.44
1:B:646:ALA:C	1:B:648:THR:N	2.74	0.44
1:B:691:GLY:O	1:B:693:GLU:N	2.50	0.44
1:C:143:ILE:HD13	1:C:286:ALA:HB2	1.92	0.44
1:C:167:SER:H	1:C:175:VAL:CG2	2.22	0.44
1:C:263:ARG:HA	1:C:268:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:267:LYS:HE3	1:C:267:LYS:HB2	1.91	0.44
1:C:344:LEU:O	1:C:345:VAL:C	2.60	0.44
1:C:534:ILE:C	1:C:536:ARG:H	2.25	0.44
1:C:748:THR:O	1:C:752:ALA:CB	2.65	0.44
1:A:56:THR:HG23	1:C:213:GLN:CG	2.46	0.44
1:A:128:SER:CB	1:B:113:LEU:CD2	2.96	0.44
1:A:133:SER:O	1:A:292:LYS:HE2	2.17	0.44
1:A:428:LYS:HG3	1:A:429:GLU:HG3	1.97	0.44
1:A:813:SER:OG	1:A:816:LEU:CD2	2.66	0.44
1:A:944:LEU:O	1:A:947:GLU:HB3	2.18	0.44
1:B:195:LYS:NZ	1:B:196:PHE:CZ	2.83	0.44
1:B:356:TYR:CD2	1:B:365:THR:HG21	2.52	0.44
1:B:601:LYS:C	1:B:603:LYS:N	2.70	0.44
1:B:792:ARG:HB2	1:B:798:MET:CE	2.31	0.44
1:B:860:THR:O	1:B:863:SER:HB2	2.17	0.44
1:B:873:ALA:HB3	1:B:874:PRO:HD3	1.99	0.44
1:B:889:ALA:O	1:B:890:ALA:C	2.60	0.44
1:B:983:ILE:HG23	1:B:1008:MET:CG	2.47	0.44
1:C:99:ASP:OD2	1:C:99:ASP:C	2.61	0.44
1:C:391:ASN:O	1:C:392:THR:C	2.60	0.44
1:C:393:LEU:H	1:C:393:LEU:HG	1.60	0.44
1:C:399:VAL:O	1:C:400:LEU:C	2.58	0.44
1:C:547:ILE:HA	1:C:550:VAL:HG12	1.99	0.44
1:C:904:VAL:O	1:C:905:VAL:C	2.61	0.44
1:C:904:VAL:O	1:C:906:PRO:HD2	2.18	0.44
1:A:69:MET:HE2	1:A:69:MET:CA	2.43	0.44
1:A:80:SER:HB2	1:A:90:ILE:HG12	1.98	0.44
1:A:254:ASN:O	1:A:256:ASP:N	2.50	0.44
1:A:843:LEU:O	1:A:845:GLU:N	2.51	0.44
1:A:989:LEU:O	1:A:993:THR:OG1	2.31	0.44
1:B:48:SER:N	1:B:49:TYR:CE1	2.73	0.44
1:B:115:MET:HE3	1:B:118:LEU:HD13	1.99	0.44
1:B:190:PRO:CD	1:B:779:TYR:CD2	3.01	0.44
1:B:217:GLY:HA3	1:C:754:TRP:O	2.17	0.44
1:B:474:ILE:O	1:B:475:VAL:C	2.59	0.44
1:C:121:GLU:O	1:C:758:TYR:OH	2.35	0.44
1:C:321:LEU:HD22	1:C:321:LEU:HA	1.67	0.44
1:C:393:LEU:HD11	1:C:466:ILE:HG23	1.98	0.44
1:C:461:GLY:HA3	1:C:869:SER:OG	2.18	0.44
1:C:545:TYR:O	1:C:547:ILE:N	2.50	0.44
1:C:643:LYS:O	1:C:644:VAL:C	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:695:LEU:HD22	1:C:825:MET:CE	2.28	0.44
1:A:520:PHE:C	1:A:522:LYS:H	2.25	0.44
1:A:635:ALA:O	1:A:637:ARG:N	2.51	0.44
1:A:952:LEU:C	1:A:952:LEU:CD1	2.90	0.44
1:A:968:VAL:HG22	1:A:1023:PRO:HB3	1.87	0.44
1:B:170:SER:O	1:B:172:VAL:HG23	2.18	0.44
1:B:609:VAL:HG22	1:B:629:VAL:HB	1.99	0.44
1:B:654:ALA:O	1:B:656:SER:N	2.50	0.44
1:C:314:GLU:O	1:C:317:PHE:CE2	2.71	0.44
1:C:655:PHE:C	1:C:657:GLN:N	2.75	0.44
1:C:680:PHE:HB2	1:C:859:TRP:CZ3	2.52	0.44
1:C:721:LEU:HD11	1:C:815:ARG:O	2.16	0.44
1:A:187:TRP:O	1:A:266:ALA:HB1	2.18	0.44
1:A:978:THR:C	1:A:980:LEU:H	2.24	0.44
1:B:800:PRO:O	1:B:801:PHE:C	2.61	0.44
1:B:947:GLU:O	1:B:951:ASP:HB2	2.18	0.44
1:C:115:MET:CE	1:C:118:LEU:HD21	2.36	0.44
1:C:228:GLN:NE2	1:C:230:LEU:O	2.51	0.44
1:C:457:ALA:HB2	1:C:468:ARG:HA	1.98	0.44
1:C:463:THR:HA	1:C:466:ILE:CD1	2.38	0.44
1:C:790:TYR:O	1:C:791:VAL:HG23	2.17	0.44
1:C:959:GLY:O	1:C:960:LEU:C	2.61	0.44
1:A:151:GLN:HE22	1:A:278:ILE:HG23	1.82	0.44
1:A:318:PRO:O	1:A:319:SER:C	2.60	0.44
1:A:355:MET:HG2	1:A:365:THR:HG22	1.98	0.44
1:A:658:ILE:O	1:A:659:LYS:O	2.34	0.44
1:A:773:VAL:O	1:A:773:VAL:HG13	2.16	0.44
1:A:925:VAL:N	1:A:928:GLN:HE21	2.16	0.44
1:B:87:THR:HG21	1:B:620:ARG:CZ	2.48	0.44
1:B:459:PHE:HB3	1:B:460:GLY:H	1.64	0.44
1:B:490:PRO:O	1:B:492:LEU:N	2.51	0.44
1:B:833:PRO:CG	1:B:834:GLY:H	2.26	0.44
1:B:885:PHE:CD2	1:B:898:PRO:HB2	2.53	0.44
1:C:21:LEU:O	1:C:25:LEU:HG	2.18	0.44
1:C:247:GLY:CA	1:C:268:ILE:HD13	2.45	0.44
1:C:434:SER:O	1:C:438:ILE:HB	2.17	0.44
1:C:670:ALA:C	1:C:672:VAL:H	2.26	0.44
1:C:896:SER:C	1:C:898:PRO:HD2	2.42	0.44
1:A:24:GLY:O	1:A:27:ILE:HB	2.18	0.44
1:A:702:LEU:HB2	1:A:851:LEU:HD21	2.00	0.44
1:B:9:PRO:HD2	1:C:893:GLU:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:104:GLN:NE2	1:B:108:GLN:HE21	2.16	0.44
1:B:729:ILE:CG1	1:B:730:ASP:N	2.66	0.44
1:B:753:ALA:HB3	1:B:754:TRP:HD1	1.83	0.44
1:B:859:TRP:HB3	1:B:863:SER:CB	2.31	0.44
1:B:900:SER:O	1:B:901:VAL:C	2.60	0.44
1:B:937:LEU:HD11	1:B:982:PHE:CE2	2.52	0.44
1:C:249:ILE:HD13	1:C:249:ILE:HG21	1.68	0.44
1:C:544:LEU:HD12	1:C:1021:PHE:CZ	2.52	0.44
1:C:860:THR:HG23	1:C:860:THR:O	2.17	0.44
1:C:950:LYS:HE2	1:C:1026:PHE:HZ	1.83	0.44
1:A:533:GLY:O	1:A:534:ILE:C	2.60	0.44
1:A:652:THR:HG22	1:A:653:ARG:HD3	1.98	0.44
1:A:752:ALA:O	1:A:756:GLY:HA2	2.17	0.44
1:A:756:GLY:CA	1:A:774:MET:HB2	2.48	0.44
1:B:91:THR:C	1:B:92:LEU:HD22	2.42	0.44
1:B:120:GLN:HA	1:B:123:GLN:HB2	2.00	0.44
1:B:197:GLN:HA	1:B:798:MET:SD	2.58	0.44
1:B:515:TRP:O	1:B:519:MET:HB2	2.17	0.44
1:B:699:ARG:C	1:B:701:GLN:N	2.73	0.44
1:C:45:ILE:CA	1:C:45:ILE:CD1	2.95	0.44
1:C:328:ASP:OD1	1:C:330:THR:HB	2.18	0.44
1:C:463:THR:CA	1:C:466:ILE:HD13	2.38	0.44
1:C:561:SER:HA	1:C:923:ASN:CB	2.48	0.44
1:C:866:GLU:O	1:C:868:LEU:N	2.51	0.44
1:C:930:GLY:HA3	1:C:1007:VAL:HG23	2.00	0.44
1:A:9:PRO:CD	1:A:10:ILE:H	2.28	0.43
1:A:29:LYS:O	1:A:29:LYS:CG	2.66	0.43
1:A:353:LEU:O	1:A:354:VAL:C	2.60	0.43
1:A:418:ARG:CG	1:A:970:MET:CE	2.90	0.43
1:A:572:PHE:CE1	1:A:629:VAL:HG13	2.53	0.43
1:A:646:ALA:O	1:A:649:MET:HB2	2.17	0.43
1:A:768:VAL:O	1:A:768:VAL:HG23	2.17	0.43
1:A:801:PHE:CG	1:A:802:SER:N	2.86	0.43
1:B:49:TYR:CE2	1:B:125:GLN:HG2	2.53	0.43
1:B:75:LEU:HD12	1:B:93:THR:O	2.17	0.43
1:B:201:VAL:HG22	1:B:748:THR:HB	1.99	0.43
1:B:247:GLY:CA	1:B:268:ILE:CD1	2.47	0.43
1:B:404:LEU:C	1:B:406:VAL:N	2.70	0.43
1:B:439:GLN:O	1:B:440:GLY:C	2.59	0.43
1:B:462:SER:CB	1:B:865:GLN:NE2	2.81	0.43
1:B:892:TYR:O	1:B:894:SER:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:391:ASN:CG	1:C:394:THR:HG22	2.42	0.43
1:C:420:MET:SD	1:C:498:LYS:CG	3.06	0.43
1:C:708:LYS:O	1:C:710:PRO:CD	2.65	0.43
1:A:72:ILE:CG2	1:A:94:PHE:HE2	2.31	0.43
1:A:106:GLN:O	1:A:110:LYS:CB	2.62	0.43
1:A:253:VAL:HA	1:A:258:SER:O	2.18	0.43
1:A:393:LEU:HD22	1:A:466:ILE:HG23	2.00	0.43
1:B:111:LEU:HD21	1:B:127:VAL:HG12	2.00	0.43
1:B:261:LEU:N	1:B:261:LEU:CD1	2.71	0.43
1:B:418:ARG:HH21	1:B:970:MET:HG3	1.83	0.43
1:B:418:ARG:NH2	1:B:970:MET:HG3	2.33	0.43
1:B:420:MET:HE1	1:B:425:LEU:CD2	2.37	0.43
1:B:425:LEU:HA	1:B:426:PRO:HD3	1.61	0.43
1:B:568:ASP:O	1:B:634:TRP:CH2	2.71	0.43
1:B:597:TYR:CD2	1:B:655:PHE:CE1	3.06	0.43
1:B:760:ASN:HD22	1:B:761:ASP:N	2.09	0.43
1:B:988:PRO:C	1:B:990:VAL:N	2.75	0.43
1:C:61:VAL:O	1:C:62:THR:C	2.60	0.43
1:C:352:PHE:HA	1:C:369:THR:CG2	2.32	0.43
1:C:541:TYR:CD1	1:C:541:TYR:N	2.86	0.43
1:A:66:GLU:OE2	1:A:818:ARG:HD2	2.18	0.43
1:A:101:ASP:O	1:A:105:VAL:HG23	2.18	0.43
1:A:173:GLY:HA3	1:A:294:ALA:HA	1.98	0.43
1:A:189:ASN:O	1:A:190:PRO:C	2.60	0.43
1:A:367:ILE:HD12	1:A:367:ILE:C	2.43	0.43
1:A:435:MET:HA	1:A:438:ILE:CD1	2.49	0.43
1:A:549:VAL:HG13	1:A:550:VAL:H	1.83	0.43
1:A:699:ARG:NH1	1:A:722:GLU:OE1	2.49	0.43
1:A:714:THR:O	1:A:715:SER:HB2	2.17	0.43
1:A:971:ARG:HE	1:A:971:ARG:HA	1.81	0.43
1:B:179:GLY:N	1:B:277:ILE:CG2	2.81	0.43
1:B:465:ALA:O	1:B:466:ILE:C	2.60	0.43
1:B:490:PRO:O	1:B:493:CYS:O	2.36	0.43
1:B:543:VAL:O	1:B:547:ILE:HD12	2.19	0.43
1:B:659:LYS:HD3	1:B:660:ASP:CG	2.42	0.43
1:B:782:LEU:C	1:B:784:ASP:H	2.26	0.43
1:C:66:GLU:HG2	1:C:78:MET:CE	2.45	0.43
1:C:259:ARG:HH11	1:C:259:ARG:HB2	1.82	0.43
1:C:327:TYR:CZ	1:C:573:MET:HE1	2.53	0.43
1:C:418:ARG:HG3	1:C:419:VAL:N	2.33	0.43
1:C:454:VAL:O	1:C:454:VAL:CG2	2.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:104:GLN:O	1:A:105:VAL:C	2.59	0.43
1:A:171:GLY:O	1:A:294:ALA:CB	2.65	0.43
1:A:289:LEU:HD23	1:A:289:LEU:C	2.43	0.43
1:A:435:MET:SD	1:A:490:PRO:HG3	2.58	0.43
1:A:447:MET:CB	1:A:887:CYS:SG	2.96	0.43
1:A:541:TYR:CD2	1:A:541:TYR:N	2.84	0.43
1:A:577:GLN:HE21	1:A:577:GLN:HB2	1.54	0.43
1:A:620:ARG:HD2	1:A:620:ARG:N	2.34	0.43
1:A:678:THR:O	1:A:837:THR:OG1	2.25	0.43
1:A:711:ASP:OD2	1:A:711:ASP:N	2.50	0.43
1:A:880:SER:C	1:A:882:ILE:N	2.77	0.43
1:B:309:GLU:O	1:B:312:LYS:N	2.49	0.43
1:B:457:ALA:C	1:B:459:PHE:N	2.69	0.43
1:B:570:GLY:N	1:B:634:TRP:HH2	2.16	0.43
1:B:592:ASN:HA	1:B:595:THR:HG23	1.99	0.43
1:B:607:GLU:HG2	1:B:632:LYS:HD3	2.00	0.43
1:B:701:GLN:HA	1:B:704:ALA:CB	2.44	0.43
1:B:757:SER:O	1:B:759:VAL:HG23	2.18	0.43
1:B:986:VAL:O	1:B:986:VAL:HG12	2.18	0.43
1:C:520:PHE:C	1:C:524:THR:HG23	2.43	0.43
1:C:524:THR:O	1:C:527:TYR:N	2.51	0.43
1:C:527:TYR:OH	1:C:1019:ILE:HG13	2.18	0.43
1:C:776:GLU:O	1:C:777:ALA:C	2.59	0.43
1:A:108:GLN:HB3	1:A:109:ASN:H	1.49	0.43
1:A:193:LEU:CA	1:A:265:VAL:HG13	2.49	0.43
1:A:223:PRO:HD3	1:B:275:TYR:HD2	1.72	0.43
1:A:713:LEU:HB2	1:A:833:PRO:HD3	2.00	0.43
1:A:739:LEU:HD22	1:A:739:LEU:H	1.83	0.43
1:A:818:ARG:HD3	1:A:822:LEU:N	2.34	0.43
1:B:174:ASP:CG	1:B:175:VAL:N	2.77	0.43
1:B:202:ASP:O	1:B:203:VAL:C	2.62	0.43
1:B:324:VAL:HG23	1:B:326:PRO:CD	2.48	0.43
1:C:12:ALA:C	1:C:14:VAL:H	2.26	0.43
1:C:66:GLU:OE2	1:C:80:SER:OG	2.26	0.43
1:C:131:LYS:C	1:C:295:THR:HG22	2.41	0.43
1:C:246:PHE:HZ	1:C:762:PHE:CB	2.31	0.43
1:C:356:TYR:C	1:C:358:PHE:N	2.74	0.43
1:C:532:GLY:C	1:C:534:ILE:N	2.75	0.43
1:C:674:LEU:C	1:C:674:LEU:HD12	2.44	0.43
1:C:688:ALA:C	1:C:690:LEU:N	2.69	0.43
1:C:713:LEU:CB	1:C:832:ALA:HB3	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:113:LEU:CD2	1:C:128:SER:HA	2.43	0.43
1:A:190:PRO:HD2	1:A:779:TYR:CD2	2.53	0.43
1:A:246:PHE:O	1:A:249:ILE:HD13	2.14	0.43
1:A:340:VAL:CG1	1:A:399:VAL:HG21	2.35	0.43
1:A:348:ILE:HD11	1:A:372:VAL:HG11	1.99	0.43
1:A:583:THR:CG2	1:A:584:GLN:N	2.78	0.43
1:A:713:LEU:CD2	1:A:714:THR:N	2.52	0.43
1:A:747:ASN:HD21	1:C:237:GLN:NE2	2.16	0.43
1:A:775:SER:OG	1:A:776:GLU:O	2.33	0.43
1:A:961:ILE:O	1:A:965:LEU:HD22	2.18	0.43
1:A:988:PRO:O	1:A:990:VAL:C	2.62	0.43
1:B:200:PRO:CG	1:B:749:THR:HG22	2.49	0.43
1:B:572:PHE:C	1:B:572:PHE:CD1	2.97	0.43
1:B:595:THR:HB	1:B:609:VAL:HG11	2.00	0.43
1:B:833:PRO:O	1:B:834:GLY:C	2.62	0.43
1:C:1:MET:CB	1:C:2:PRO:CD	2.87	0.43
1:C:242:SER:O	1:C:244:GLU:N	2.51	0.43
1:C:483:LEU:O	1:C:487:ILE:HD12	2.18	0.43
1:A:111:LEU:C	1:A:113:LEU:N	2.77	0.43
1:A:356:TYR:O	1:A:358:PHE:N	2.51	0.43
1:A:441:ALA:HB1	1:A:944:LEU:HD21	2.01	0.43
1:A:713:LEU:HB2	1:A:833:PRO:CD	2.49	0.43
1:B:65:ILE:HG23	1:B:111:LEU:HD13	2.01	0.43
1:B:415:ASN:OD1	1:B:434:SER:OG	2.36	0.43
1:B:979:SER:HB3	1:B:1011:MET:HE3	2.01	0.43
1:C:103:ALA:C	1:C:105:VAL:N	2.77	0.43
1:C:702:LEU:O	1:C:702:LEU:HD23	2.19	0.43
1:C:758:TYR:CD2	1:C:758:TYR:O	2.71	0.43
1:C:758:TYR:N	1:C:758:TYR:CD1	2.62	0.43
1:C:801:PHE:CD1	1:C:804:PHE:CE1	3.07	0.43
1:A:84:SER:C	1:A:85:THR:CG2	2.87	0.43
1:A:171:GLY:C	1:A:294:ALA:HB2	2.43	0.43
1:A:537:SER:O	1:A:538:THR:C	2.61	0.43
1:A:547:ILE:O	1:A:550:VAL:HB	2.19	0.43
1:A:588:GLN:O	1:A:589:LYS:C	2.61	0.43
1:B:518:ARG:HA	1:B:521:GLU:HG3	1.99	0.43
1:C:483:LEU:HD23	1:C:483:LEU:HA	1.81	0.43
1:C:633:ASP:O	1:C:635:ALA:N	2.44	0.43
1:C:847:LEU:CA	1:C:850:LYS:HD3	2.28	0.43
1:C:987:MET:N	1:C:988:PRO:HD2	2.34	0.43
1:A:21:LEU:HD13	1:A:21:LEU:HA	1.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:128:SER:HB2	1:B:113:LEU:HD22	2.01	0.43
1:A:187:TRP:C	1:A:266:ALA:HB1	2.43	0.43
1:A:472:ILE:HA	1:A:475:VAL:HG12	2.01	0.43
1:A:583:THR:HG22	1:A:584:GLN:N	2.32	0.43
1:A:649:MET:O	1:A:653:ARG:NE	2.52	0.43
1:A:901:VAL:HG11	1:A:943:ILE:CG1	2.47	0.43
1:B:47:ALA:HB3	1:B:88:VAL:HB	2.01	0.43
1:B:833:PRO:HG2	1:B:834:GLY:N	2.27	0.43
1:B:891:LEU:HD12	1:B:892:TYR:CD1	2.53	0.43
1:B:915:ALA:C	1:B:917:THR:N	2.76	0.43
1:B:975:ILE:H	1:B:975:ILE:CD1	2.32	0.43
1:C:345:VAL:O	1:C:348:ILE:CG1	2.62	0.43
1:C:354:VAL:C	1:C:356:TYR:N	2.77	0.43
1:C:490:PRO:O	1:C:491:ALA:O	2.37	0.43
1:C:576:VAL:HG21	1:C:591:LEU:CD2	2.49	0.43
1:C:688:ALA:HB3	1:C:690:LEU:HD13	2.01	0.43
1:C:710:PRO:O	1:C:711:ASP:C	2.62	0.43
1:C:925:VAL:C	1:C:927:PHE:N	2.59	0.43
1:A:7:ASP:O	1:A:9:PRO:HD3	2.18	0.43
1:A:182:TYR:HA	1:A:271:GLY:O	2.18	0.43
1:A:270:LEU:N	1:A:270:LEU:HD22	2.33	0.43
1:A:332:PHE:CD2	1:A:332:PHE:O	2.72	0.43
1:A:516:PHE:C	1:A:518:ARG:N	2.77	0.43
1:A:578:LEU:CD2	1:A:578:LEU:H	2.32	0.43
1:A:709:HIS:C	1:A:711:ASP:H	2.26	0.43
1:A:713:LEU:CG	1:A:833:PRO:HD3	2.44	0.43
1:B:324:VAL:HG23	1:B:326:PRO:HD3	2.00	0.43
1:B:490:PRO:C	1:B:492:LEU:N	2.76	0.43
1:B:867:ARG:HG2	1:B:867:ARG:NH1	2.33	0.43
1:B:892:TYR:C	1:B:894:SER:N	2.76	0.43
1:B:908:GLY:O	1:B:910:ILE:N	2.52	0.43
1:C:245:GLU:O	1:C:248:LYS:N	2.51	0.43
1:C:265:VAL:O	1:C:266:ALA:HB2	2.19	0.43
1:C:396:PHE:CD1	1:C:926:TYR:CE1	3.06	0.43
1:C:819:TYR:CE2	1:C:860:THR:HB	2.54	0.43
1:C:866:GLU:C	1:C:868:LEU:N	2.76	0.43
1:C:959:GLY:O	1:C:963:ALA:CB	2.67	0.43
1:A:112:GLN:HA	1:A:112:GLN:HE21	1.83	0.42
1:A:416:VAL:O	1:A:420:MET:HG3	2.18	0.42
1:A:552:MET:HE1	1:A:906:PRO:CB	2.49	0.42
1:A:731:ILE:CD1	1:A:731:ILE:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1023:PRO:C	1:A:1024:VAL:O	2.61	0.42
1:B:406:VAL:O	1:B:407:ASP:C	2.62	0.42
1:B:655:PHE:HA	1:B:658:ILE:HG21	2.01	0.42
1:B:690:LEU:O	1:B:691:GLY:O	2.37	0.42
1:C:150:THR:OG1	1:C:153:ASP:OD1	2.36	0.42
1:C:193:LEU:O	1:C:198:LEU:N	2.41	0.42
1:C:497:LEU:HD12	1:C:498:LYS:H	1.80	0.42
1:C:615:PHE:CD2	1:C:615:PHE:C	2.97	0.42
1:C:628:PHE:CD1	1:C:628:PHE:N	2.87	0.42
1:A:354:VAL:HG12	1:A:355:MET:N	2.34	0.42
1:A:420:MET:O	1:A:420:MET:HE3	2.19	0.42
1:A:668:LEU:O	1:A:668:LEU:HD12	2.19	0.42
1:A:706:ALA:HB2	1:A:847:LEU:HD12	2.00	0.42
1:A:916:ALA:O	1:A:919:ARG:O	2.37	0.42
1:B:131:LYS:O	1:B:132:SER:HB3	2.19	0.42
1:B:423:GLU:CD	1:B:427:PRO:HD2	2.43	0.42
1:C:77:TYR:CE1	1:C:860:THR:OG1	2.65	0.42
1:C:94:PHE:CZ	1:C:103:ALA:HB1	2.54	0.42
1:C:390:ILE:HD13	1:C:390:ILE:HG21	1.73	0.42
1:C:708:LYS:O	1:C:710:PRO:HD3	2.19	0.42
1:C:719:ASN:O	1:C:721:LEU:N	2.52	0.42
1:A:107:VAL:HG12	1:A:108:GLN:N	2.35	0.42
1:A:607:GLU:OE2	1:A:607:GLU:C	2.61	0.42
1:A:1023:PRO:O	1:A:1027:VAL:CG2	2.63	0.42
1:B:255:GLN:HG3	1:B:256:ASP:N	2.35	0.42
1:B:908:GLY:O	1:B:911:GLY:N	2.52	0.42
1:B:960:LEU:HD11	1:B:1027:VAL:CG1	2.48	0.42
1:B:991:ILE:O	1:B:992:SER:C	2.62	0.42
1:C:58:GLN:OE1	1:C:82:SER:CA	2.67	0.42
1:C:103:ALA:O	1:C:105:VAL:N	2.52	0.42
1:C:143:ILE:HD13	1:C:143:ILE:HA	1.20	0.42
1:C:192:GLU:O	1:C:193:LEU:C	2.62	0.42
1:C:839:GLU:O	1:C:840:ALA:C	2.62	0.42
1:C:953:MET:CE	1:C:1030:ARG:NH2	2.69	0.42
1:C:1023:PRO:O	1:C:1024:VAL:C	2.62	0.42
1:A:111:LEU:O	1:A:113:LEU:N	2.53	0.42
1:A:113:LEU:CD1	1:C:108:GLN:NE2	2.81	0.42
1:A:117:LEU:N	1:A:117:LEU:HD22	2.34	0.42
1:A:119:PRO:O	1:A:122:VAL:N	2.45	0.42
1:A:331:PRO:O	1:A:335:ILE:HG23	2.19	0.42
1:A:370:ILE:O	1:A:370:ILE:HG22	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:417:GLU:HA	1:A:417:GLU:OE2	2.19	0.42
1:A:426:PRO:HB3	1:A:427:PRO:HD2	2.01	0.42
1:A:545:TYR:HA	1:A:548:ILE:HG12	2.01	0.42
1:A:680:PHE:HB2	1:A:859:TRP:CZ3	2.54	0.42
1:B:362:PHE:O	1:B:364:ALA:N	2.52	0.42
1:B:396:PHE:O	1:B:397:GLY:C	2.61	0.42
1:B:513:PHE:O	1:B:516:PHE:HB2	2.19	0.42
1:B:574:THR:HA	1:B:665:ALA:HA	2.02	0.42
1:B:638:PRO:CG	1:B:639:GLY:H	2.30	0.42
1:B:725:PRO:HB2	1:B:809:TRP:CZ3	2.55	0.42
1:B:1031:ARG:CA	1:B:1034:SER:OG	2.67	0.42
1:C:34:GLN:HB3	1:C:333:VAL:HG21	2.01	0.42
1:C:104:GLN:HE21	1:C:104:GLN:HB3	1.57	0.42
1:C:137:LEU:C	1:C:137:LEU:HD22	2.43	0.42
1:C:139:VAL:HG12	1:C:140:VAL:N	2.33	0.42
1:C:743:ILE:H	1:C:743:ILE:CD1	2.20	0.42
1:C:977:MET:HE3	1:C:977:MET:HB2	1.82	0.42
1:C:997:SER:HB2	1:C:1001:ASN:OD1	2.20	0.42
1:A:66:GLU:C	1:A:68:ASN:N	2.78	0.42
1:A:119:PRO:HG2	1:A:122:VAL:CG2	2.48	0.42
1:A:190:PRO:HD3	1:A:789:TRP:CH2	2.54	0.42
1:A:254:ASN:N	1:A:258:SER:OG	2.34	0.42
1:A:323:ILE:O	1:A:323:ILE:HD13	2.18	0.42
1:A:350:LEU:HD12	1:A:981:ALA:HA	2.02	0.42
1:A:614:GLY:O	1:A:620:ARG:HB3	2.19	0.42
1:A:742:SER:O	1:A:743:ILE:C	2.61	0.42
1:A:902:MET:C	1:A:904:VAL:N	2.77	0.42
1:B:121:GLU:H	1:B:121:GLU:HG2	1.67	0.42
1:B:391:ASN:O	1:B:395:MET:HG2	2.19	0.42
1:B:469:GLN:O	1:B:472:ILE:HG22	2.19	0.42
1:B:538:THR:N	1:B:540:ARG:NH2	2.63	0.42
1:B:700:ASN:O	1:B:704:ALA:HB2	2.19	0.42
1:B:740:GLY:HA3	1:B:794:ALA:CB	2.49	0.42
1:C:192:GLU:O	1:C:194:ASN:N	2.53	0.42
1:C:220:GLY:CA	1:C:231:ASN:ND2	2.60	0.42
1:C:306:ILE:O	1:C:309:GLU:N	2.52	0.42
1:C:644:VAL:HG11	1:C:667:ASN:CG	2.44	0.42
1:C:713:LEU:CD2	1:C:835:LYS:H	2.31	0.42
1:C:778:LYS:CD	1:C:779:TYR:CE2	2.91	0.42
1:C:1028:VAL:HG12	1:C:1032:ARG:NH1	2.34	0.42
1:A:199:THR:HG21	1:A:792:ARG:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:376:LEU:N	1:A:376:LEU:HD23	2.35	0.42
1:A:449:LEU:O	1:A:453:PHE:HB2	2.19	0.42
1:A:909:VAL:HG13	1:A:931:LEU:HD11	2.02	0.42
1:A:972:LEU:HD13	1:A:976:LEU:HG	2.01	0.42
1:B:72:ILE:HG23	1:B:72:ILE:HD12	1.63	0.42
1:B:76:MET:CG	1:B:95:GLU:HG3	2.49	0.42
1:B:144:ASN:O	1:B:144:ASN:ND2	2.53	0.42
1:B:219:LEU:CD1	1:B:234:ILE:CD1	2.98	0.42
1:B:254:ASN:O	1:B:257:GLY:N	2.46	0.42
1:B:343:THR:HA	1:B:346:GLU:HB3	2.02	0.42
1:B:628:PHE:CD1	1:B:628:PHE:N	2.87	0.42
1:B:979:SER:CA	1:B:1011:MET:HE3	2.50	0.42
1:C:5:PHE:CD2	1:C:12:ALA:HB2	2.54	0.42
1:C:308:ALA:O	1:C:309:GLU:C	2.60	0.42
1:C:646:ALA:O	1:C:647:ILE:C	2.62	0.42
1:C:759:VAL:H	1:C:759:VAL:HG22	1.38	0.42
1:C:911:GLY:H	1:C:1013:THR:HG21	1.84	0.42
1:A:178:PHE:N	1:A:178:PHE:CD1	2.88	0.42
1:A:418:ARG:CD	1:A:970:MET:CG	2.97	0.42
1:A:577:GLN:CD	1:A:624:THR:CG2	2.92	0.42
1:A:946:VAL:O	1:A:949:ALA:HB3	2.20	0.42
1:B:10:ILE:H	1:B:10:ILE:HG12	1.69	0.42
1:B:143:ILE:HG22	1:B:285:PRO:O	2.20	0.42
1:B:193:LEU:HA	1:B:265:VAL:CG2	2.49	0.42
1:B:213:GLN:O	1:B:214:VAL:CG2	2.67	0.42
1:B:659:LYS:HD2	1:B:660:ASP:OD2	2.20	0.42
1:B:799:VAL:HA	1:B:800:PRO:HD2	1.78	0.42
1:B:898:PRO:C	1:B:900:SER:N	2.74	0.42
1:B:1026:PHE:HB3	1:B:1030:ARG:HH21	1.84	0.42
1:C:210:GLN:OE1	1:C:250:LEU:N	2.47	0.42
1:C:525:HIS:O	1:C:529:ASP:N	2.52	0.42
1:C:622:GLN:O	1:C:622:GLN:HG2	2.19	0.42
1:A:44:THR:HG21	1:A:89:GLN:CG	2.50	0.42
1:A:425:LEU:N	1:A:425:LEU:CD1	2.71	0.42
1:A:876:LEU:HA	1:A:879:ILE:HD12	2.01	0.42
1:A:890:ALA:HB1	1:C:11:PHE:HA	2.02	0.42
1:A:897:ILE:HG12	1:A:950:LYS:HE2	2.02	0.42
1:A:1027:VAL:O	1:A:1029:VAL:O	2.37	0.42
1:B:11:PHE:C	1:B:11:PHE:CD2	2.97	0.42
1:B:443:VAL:HG12	1:B:444:GLY:N	2.34	0.42
1:B:714:THR:O	1:B:715:SER:OG	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:912:ALA:HB2	1:B:1010:GLY:HA3	2.00	0.42
1:B:921:LEU:HD21	1:B:1005:THR:HG22	1.94	0.42
1:B:941:ASN:O	1:B:942:ALA:C	2.62	0.42
1:C:491:ALA:C	1:C:493:CYS:N	2.76	0.42
1:C:516:PHE:CD2	1:C:517:ASN:N	2.88	0.42
1:C:778:LYS:C	1:C:779:TYR:HD2	2.27	0.42
1:A:11:PHE:C	1:A:13:TRP:N	2.77	0.42
1:A:207:ILE:HG22	1:A:207:ILE:O	2.19	0.42
1:A:298:ASN:HB3	1:A:301:ASP:CG	2.44	0.42
1:A:309:GLU:C	1:A:311:ALA:O	2.63	0.42
1:A:359:LEU:HD11	1:A:417:GLU:HB3	2.02	0.42
1:A:531:VAL:HG22	1:A:1020:PHE:HD1	1.85	0.42
1:A:775:SER:HB2	1:A:789:TRP:HZ2	1.84	0.42
1:A:880:SER:O	1:A:882:ILE:N	2.53	0.42
1:A:947:GLU:C	1:A:949:ALA:H	2.28	0.42
1:B:139:VAL:O	1:B:140:VAL:O	2.36	0.42
1:B:231:ASN:HD22	1:B:232:ALA:N	2.18	0.42
1:B:362:PHE:C	1:B:364:ALA:N	2.75	0.42
1:B:395:MET:HA	1:B:398:MET:HG2	2.00	0.42
1:B:410:ILE:O	1:B:413:VAL:HG12	2.20	0.42
1:B:428:LYS:O	1:B:432:ARG:HB2	2.20	0.42
1:B:514:GLY:HA2	1:B:517:ASN:ND2	2.35	0.42
1:B:802:SER:C	1:B:804:PHE:H	2.27	0.42
1:C:1:MET:HE2	1:C:439:GLN:HE22	1.79	0.42
1:C:3:ASN:HD22	1:C:6:ILE:HD12	1.85	0.42
1:C:185:ARG:HG2	1:C:271:GLY:CA	2.50	0.42
1:C:417:GLU:OE2	1:C:417:GLU:CA	2.56	0.42
1:C:513:PHE:HA	1:C:516:PHE:HB2	1.92	0.42
1:C:619:GLY:O	1:C:620:ARG:O	2.38	0.42
1:C:914:LEU:O	1:C:915:ALA:CB	2.66	0.42
1:A:189:ASN:HB2	1:A:779:TYR:CZ	2.54	0.42
1:A:563:PHE:C	1:A:564:LEU:HD12	2.45	0.42
1:A:568:ASP:CB	1:A:634:TRP:CZ3	2.97	0.42
1:A:633:ASP:O	1:A:634:TRP:C	2.63	0.42
1:A:874:PRO:HB2	1:A:875:SER:H	1.50	0.42
1:B:20:MET:HG2	1:B:374:VAL:HA	2.02	0.42
1:B:382:VAL:O	1:B:383:LEU:C	2.63	0.42
1:B:578:LEU:CD1	1:B:586:ARG:HH21	2.30	0.42
1:B:578:LEU:HB3	1:B:579:PRO:CD	2.50	0.42
1:B:992:SER:CB	1:B:1000:GLN:OE1	2.67	0.42
1:C:159:ALA:CB	1:C:181:GLN:HB2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:181:GLN:NE2	1:C:769:LYS:HD2	2.34	0.42
1:C:322:LYS:HG2	1:C:323:ILE:C	2.45	0.42
1:C:362:PHE:O	1:C:365:THR:N	2.43	0.42
1:C:715:SER:O	1:C:717:ARG:NH1	2.52	0.42
1:C:857:TYR:CD1	1:C:857:TYR:C	2.98	0.42
1:A:13:TRP:O	1:A:17:ILE:N	2.52	0.41
1:A:99:ASP:HB3	1:A:102:ILE:HG22	2.02	0.41
1:A:169:THR:OG1	1:A:172:VAL:CG1	2.68	0.41
1:A:268:ILE:HD12	1:A:268:ILE:H	1.84	0.41
1:A:373:PRO:O	1:A:377:LEU:HB2	2.21	0.41
1:A:531:VAL:O	1:A:531:VAL:HG12	2.20	0.41
1:A:671:ILE:HG13	1:A:674:LEU:HD12	2.02	0.41
1:A:925:VAL:C	1:A:927:PHE:N	2.75	0.41
1:B:189:ASN:HB2	1:B:265:VAL:O	2.20	0.41
1:B:376:LEU:O	1:B:379:THR:N	2.50	0.41
1:B:415:ASN:HA	1:B:418:ARG:HB3	2.01	0.41
1:B:470:PHE:CE2	1:B:929:VAL:HG11	2.55	0.41
1:B:585:GLU:O	1:B:586:ARG:C	2.63	0.41
1:B:665:ALA:O	1:B:666:PHE:CD2	2.73	0.41
1:B:685:ILE:HD12	1:B:857:TYR:C	2.45	0.41
1:B:819:TYR:O	1:B:820:ASN:C	2.62	0.41
1:B:952:LEU:HA	1:B:956:GLU:OE2	2.20	0.41
1:B:1030:ARG:H	1:B:1030:ARG:HG3	1.72	0.41
1:C:49:TYR:CG	1:C:52:ALA:HB2	2.56	0.41
1:C:344:LEU:O	1:C:348:ILE:HG23	2.19	0.41
1:C:381:ALA:O	1:C:382:VAL:C	2.63	0.41
1:C:714:THR:HA	1:C:830:GLN:O	2.20	0.41
1:C:815:ARG:HG3	1:C:815:ARG:NH1	2.35	0.41
1:C:915:ALA:CA	1:C:918:PHE:HB3	2.40	0.41
1:A:43:VAL:O	1:A:91:THR:HA	2.21	0.41
1:A:407:ASP:O	1:A:409:ALA:N	2.53	0.41
1:A:552:MET:C	1:A:554:TYR:N	2.77	0.41
1:A:631:LEU:HD11	1:A:644:VAL:HG22	2.02	0.41
1:A:886:LEU:HD21	1:C:17:ILE:HG21	2.01	0.41
1:B:22:ALA:C	1:B:23:GLY:O	2.62	0.41
1:B:33:ALA:O	1:B:337:ILE:HD11	2.20	0.41
1:B:115:MET:HE3	1:B:118:LEU:HD22	2.01	0.41
1:B:158:VAL:CA	1:B:162:MET:HG2	2.35	0.41
1:B:230:LEU:HD21	1:C:809:TRP:HH2	1.83	0.41
1:B:231:ASN:C	1:B:231:ASN:HD22	2.29	0.41
1:B:231:ASN:ND2	1:B:232:ALA:N	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:531:VAL:HG22	1:B:535:LEU:CD2	2.50	0.41
1:B:610:PHE:O	1:B:627:ALA:HB1	2.19	0.41
1:B:641:GLU:CA	1:B:650:ARG:NH1	2.81	0.41
1:B:713:LEU:HD21	1:B:844:MET:HG2	2.03	0.41
1:B:987:MET:CE	1:B:990:VAL:HB	2.50	0.41
1:B:1013:THR:O	1:B:1013:THR:HG23	2.20	0.41
1:C:15:ILE:HD12	1:C:487:ILE:HG21	2.02	0.41
1:C:574:THR:HG22	1:C:575:MET:O	2.20	0.41
1:C:790:TYR:O	1:C:791:VAL:CG2	2.68	0.41
1:A:138:MET:CE	1:A:306:ILE:HB	2.51	0.41
1:A:187:TRP:CH2	1:C:223:PRO:HG2	2.56	0.41
1:A:274:ASN:HB2	2:A:2001:MIY:O8	2.20	0.41
1:A:360:GLN:HE21	1:A:360:GLN:HB3	1.56	0.41
1:A:653:ARG:O	1:A:655:PHE:N	2.53	0.41
1:B:423:GLU:OE1	1:B:427:PRO:HD3	2.20	0.41
1:B:476:SER:O	1:B:478:MET:N	2.53	0.41
1:B:668:LEU:H	1:B:668:LEU:HG	1.51	0.41
1:B:857:TYR:O	1:B:858:ASP:HB2	2.20	0.41
1:B:1016:VAL:C	1:B:1018:ALA:N	2.79	0.41
1:C:105:VAL:O	1:C:106:GLN:C	2.63	0.41
1:C:290:GLY:O	1:C:291:ILE:HG13	2.20	0.41
1:C:375:VAL:HG22	1:C:484:VAL:HG21	2.01	0.41
1:C:396:PHE:HD1	1:C:926:TYR:HE1	1.68	0.41
1:C:402:ILE:HD13	1:C:402:ILE:HG21	1.84	0.41
1:C:578:LEU:HD22	1:C:661:ALA:HB1	1.96	0.41
1:C:708:LYS:C	1:C:710:PRO:CD	2.93	0.41
1:C:713:LEU:HD21	1:C:835:LYS:N	2.33	0.41
1:C:975:ILE:HG21	1:C:1019:ILE:HD13	2.02	0.41
1:A:63:GLN:HB3	1:A:64:VAL:H	1.16	0.41
1:A:65:ILE:HB	1:A:118:LEU:HD11	2.02	0.41
1:A:944:LEU:HD23	1:A:944:LEU:HA	1.66	0.41
1:A:949:ALA:C	1:A:950:LYS:O	2.61	0.41
1:A:991:ILE:HG12	1:A:1005:THR:H	1.85	0.41
1:B:149:MET:CB	1:B:154:ILE:HG23	2.50	0.41
1:B:189:ASN:HB3	1:B:192:GLU:HB3	2.03	0.41
1:B:495:THR:O	1:B:498:LYS:HE3	2.20	0.41
1:B:605:ASN:OD1	1:B:642:ASN:CB	2.68	0.41
1:B:782:LEU:O	1:B:784:ASP:N	2.53	0.41
1:B:938:SER:C	1:B:940:LYS:N	2.74	0.41
1:B:944:LEU:HB2	1:B:975:ILE:HD11	2.03	0.41
1:B:1015:THR:O	1:B:1018:ALA:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:577:GLN:HB3	1:C:624:THR:HG22	2.01	0.41
1:C:892:TYR:OH	1:C:943:ILE:HG23	2.20	0.41
1:C:996:GLY:O	1:C:997:SER:C	2.63	0.41
1:A:8:ARG:O	1:A:8:ARG:CG	2.67	0.41
1:A:187:TRP:HA	1:A:774:MET:O	2.21	0.41
1:A:449:LEU:CB	1:A:478:MET:HE2	2.50	0.41
1:A:598:TYR:O	1:A:602:GLU:HB2	2.20	0.41
1:A:780:ARG:O	1:A:780:ARG:HD2	2.21	0.41
1:A:905:VAL:O	1:A:909:VAL:CG2	2.49	0.41
1:A:1007:VAL:O	1:A:1011:MET:HB2	2.21	0.41
1:B:43:VAL:CG2	1:B:94:PHE:HE2	2.32	0.41
1:B:109:ASN:HD22	1:B:109:ASN:HA	1.75	0.41
1:B:187:TRP:CZ3	1:B:774:MET:CE	2.98	0.41
1:B:468:ARG:O	1:B:470:PHE:N	2.54	0.41
1:B:659:LYS:HD3	1:B:660:ASP:OD2	2.20	0.41
1:C:33:ALA:HB2	1:C:298:ASN:HD22	1.84	0.41
1:C:55:LYS:O	1:C:55:LYS:HG2	2.20	0.41
1:C:246:PHE:O	1:C:249:ILE:HB	2.21	0.41
1:C:573:MET:HE2	1:C:573:MET:HB3	1.79	0.41
1:C:643:LYS:O	1:C:647:ILE:HG12	2.20	0.41
1:C:961:ILE:O	1:C:961:ILE:HG22	2.19	0.41
1:C:1018:ALA:HA	1:C:1021:PHE:HB2	2.02	0.41
1:A:55:LYS:O	1:A:58:GLN:N	2.53	0.41
1:A:84:SER:C	1:A:85:THR:HG23	2.45	0.41
1:A:605:ASN:O	1:A:632:LYS:N	2.54	0.41
1:B:34:GLN:OE1	1:B:35:TYR:CD2	2.74	0.41
1:B:200:PRO:HG2	1:B:749:THR:HA	2.03	0.41
1:B:411:VAL:H	1:B:411:VAL:HG22	1.55	0.41
1:B:659:LYS:HA	1:B:659:LYS:CE	2.48	0.41
1:B:670:ALA:HB3	1:B:862:MET:HE1	2.02	0.41
1:B:790:TYR:HD1	1:B:800:PRO:CA	2.33	0.41
1:B:892:TYR:CB	1:B:897:ILE:CD1	2.80	0.41
1:B:989:LEU:CA	1:B:992:SER:HB2	2.49	0.41
1:C:54:ALA:HB2	1:C:84:SER:CA	2.51	0.41
1:C:351:VAL:HG12	1:C:369:THR:HG22	2.02	0.41
1:C:396:PHE:HE1	1:C:999:ALA:HB1	1.85	0.41
1:C:457:ALA:HB2	1:C:468:ARG:N	2.35	0.41
1:C:465:ALA:O	1:C:469:GLN:HG2	2.21	0.41
1:C:535:LEU:O	1:C:535:LEU:HG	2.19	0.41
1:C:680:PHE:CD2	1:C:829:GLY:O	2.73	0.41
1:C:964:THR:O	1:C:967:ALA:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:965:LEU:O	1:C:969:ARG:HB2	2.21	0.41
1:C:969:ARG:HG2	1:C:969:ARG:NH2	2.35	0.41
1:A:354:VAL:CG1	1:A:980:LEU:HD23	2.51	0.41
1:A:661:ALA:O	1:A:662:MET:C	2.62	0.41
1:A:709:HIS:N	1:A:710:PRO:CD	2.83	0.41
1:A:928:GLN:H	1:A:928:GLN:HG3	1.38	0.41
1:B:177:LEU:HG	1:B:179:GLY:O	2.21	0.41
1:B:178:PHE:HE1	1:B:615:PHE:CE2	2.39	0.41
1:B:298:ASN:O	1:B:302:THR:HG23	2.21	0.41
1:B:335:ILE:O	1:B:337:ILE:N	2.50	0.41
1:B:355:MET:SD	1:B:410:ILE:HD11	2.61	0.41
1:B:447:MET:SD	1:B:887:CYS:HB3	2.60	0.41
1:B:612:VAL:HG21	1:B:628:PHE:HE1	1.85	0.41
1:C:351:VAL:O	1:C:355:MET:HB2	2.20	0.41
1:C:518:ARG:H	1:C:518:ARG:HG2	1.66	0.41
1:C:527:TYR:C	1:C:529:ASP:N	2.78	0.41
1:C:808:ARG:O	1:C:809:TRP:C	2.58	0.41
1:C:861:GLY:H	1:C:864:TYR:HB2	1.85	0.41
1:C:910:ILE:HG23	1:C:1013:THR:OG1	2.20	0.41
1:C:1014:ALA:O	1:C:1018:ALA:CB	2.69	0.41
1:A:32:VAL:HA	1:A:390:ILE:O	2.21	0.41
1:A:66:GLU:C	1:A:68:ASN:H	2.25	0.41
1:A:104:GLN:HB2	1:A:131:LYS:NZ	2.36	0.41
1:A:565:PRO:O	1:A:566:ASP:C	2.64	0.41
1:A:726:GLN:CG	1:A:810:GLU:O	2.69	0.41
1:A:781:MET:HE3	1:C:228:GLN:CG	2.51	0.41
1:A:817:GLU:HG3	1:A:824:SER:O	2.20	0.41
1:A:847:LEU:HD23	1:A:847:LEU:N	2.36	0.41
1:B:22:ALA:O	1:B:23:GLY:C	2.62	0.41
1:B:49:TYR:HE2	1:B:125:GLN:HG2	1.86	0.41
1:B:178:PHE:HD2	1:B:288:GLY:C	2.29	0.41
1:B:227:GLY:O	1:C:585:GLU:OE2	2.38	0.41
1:B:594:VAL:HG22	1:B:663:VAL:HG11	2.01	0.41
1:B:692:HIS:C	1:B:693:GLU:HG3	2.40	0.41
1:C:159:ALA:HB1	1:C:181:GLN:HB2	2.03	0.41
1:C:372:VAL:HG23	1:C:405:LEU:HD12	2.02	0.41
1:C:418:ARG:NH2	1:C:948:PHE:HZ	2.19	0.41
1:C:445:ILE:HD13	1:C:940:LYS:CE	2.49	0.41
1:C:532:GLY:O	1:C:534:ILE:N	2.54	0.41
1:C:713:LEU:N	1:C:713:LEU:HD22	2.35	0.41
1:C:774:MET:CG	1:C:775:SER:N	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:816:LEU:HD23	1:C:816:LEU:HA	1.70	0.41
1:C:898:PRO:HG2	1:C:899:PHE:CD1	2.56	0.41
1:C:932:LEU:HA	1:C:932:LEU:HD23	1.74	0.41
1:C:935:ILE:HG22	1:C:936:GLY:N	2.33	0.41
1:A:20:MET:HE2	1:A:20:MET:HB3	1.99	0.41
1:A:155:SER:OG	1:A:179:GLY:HA3	2.21	0.41
1:A:169:THR:O	1:A:170:SER:C	2.63	0.41
1:A:190:PRO:HG2	1:A:788:ASP:HB3	2.03	0.41
1:A:210:GLN:HG3	1:A:249:ILE:HG21	2.00	0.41
1:A:277:ILE:HA	1:A:613:ASN:O	2.21	0.41
1:A:330:THR:HG22	1:A:331:PRO:HD3	2.03	0.41
1:A:358:PHE:CD2	1:A:973:ARG:HG3	2.56	0.41
1:A:376:LEU:O	1:A:377:LEU:O	2.36	0.41
1:A:483:LEU:C	1:A:483:LEU:HD13	2.45	0.41
1:A:531:VAL:O	1:A:534:ILE:HG13	2.20	0.41
1:A:601:LYS:O	1:A:602:GLU:HG2	2.21	0.41
1:A:952:LEU:CD1	1:A:963:ALA:HB1	2.50	0.41
1:A:989:LEU:HA	1:A:992:SER:O	2.21	0.41
1:A:1018:ALA:HB1	1:A:1022:VAL:HG13	1.93	0.41
2:A:2001:MIY:O5	2:A:2001:MIY:O6	2.39	0.41
1:B:47:ALA:HB3	1:B:88:VAL:CG2	2.51	0.41
1:B:167:SER:HA	1:B:175:VAL:HG21	2.02	0.41
1:B:199:THR:O	1:B:202:ASP:N	2.53	0.41
1:B:219:LEU:HD12	1:B:219:LEU:H	1.86	0.41
1:B:416:VAL:O	1:B:426:PRO:HG2	2.20	0.41
1:B:525:HIS:O	1:B:529:ASP:CB	2.68	0.41
1:B:531:VAL:CG1	1:B:965:LEU:HD21	2.46	0.41
1:B:586:ARG:NH2	1:B:660:ASP:HB2	2.36	0.41
1:B:619:GLY:H	1:B:721:LEU:CD1	2.34	0.41
1:B:665:ALA:O	1:B:666:PHE:CG	2.74	0.41
1:B:709:HIS:C	1:B:711:ASP:N	2.78	0.41
1:B:828:LEU:HD23	1:B:828:LEU:HA	1.82	0.41
1:B:831:ALA:CB	1:B:840:ALA:CB	2.83	0.41
1:B:900:SER:O	1:B:903:LEU:N	2.36	0.41
1:B:938:SER:O	1:B:939:ALA:C	2.63	0.41
1:B:943:ILE:HD12	1:B:943:ILE:HA	1.89	0.41
1:B:972:LEU:HD11	1:B:976:LEU:HD21	2.03	0.41
1:B:987:MET:HE2	1:B:990:VAL:HB	2.03	0.41
1:C:32:VAL:O	1:C:300:LEU:HD13	2.21	0.41
1:C:58:GLN:CG	1:C:82:SER:OG	2.69	0.41
1:C:65:ILE:O	1:C:66:GLU:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:317:PHE:N	1:C:317:PHE:CD2	2.88	0.41
1:C:415:ASN:C	1:C:417:GLU:N	2.78	0.41
1:C:631:LEU:HD11	1:C:644:VAL:HG22	2.03	0.41
1:C:712:MET:HE2	1:C:839:GLU:HB3	2.02	0.41
1:C:931:LEU:HD22	1:C:931:LEU:HA	1.77	0.41
1:A:66:GLU:CD	1:A:818:ARG:HD2	2.46	0.41
1:A:143:ILE:HG21	1:A:281:PHE:HD2	1.83	0.41
1:A:281:PHE:CE1	1:A:608:SER:HB2	2.56	0.41
1:A:351:VAL:HG13	1:A:410:ILE:HD11	2.03	0.41
1:A:367:ILE:HG13	1:A:368:PRO:HD3	2.02	0.41
1:A:588:GLN:HG2	1:A:613:ASN:HD21	1.85	0.41
1:A:740:GLY:O	1:A:793:ALA:CA	2.69	0.41
1:A:958:LYS:HB3	1:A:959:GLY:H	1.61	0.41
1:B:888:LEU:O	1:B:892:TYR:N	2.54	0.41
1:C:25:LEU:HG	1:C:25:LEU:H	1.76	0.41
1:C:58:GLN:OE1	1:C:82:SER:CB	2.69	0.41
1:C:71:GLY:C	1:C:72:ILE:HG13	2.46	0.41
1:C:226:LYS:HB3	1:C:227:GLY:H	1.69	0.41
1:C:586:ARG:O	1:C:587:THR:C	2.64	0.41
1:C:634:TRP:C	1:C:636:ASP:N	2.78	0.41
1:C:687:GLN:HB2	1:C:854:GLY:O	2.20	0.41
1:C:949:ALA:O	1:C:951:ASP:N	2.54	0.41
1:A:134:SER:O	1:A:135:SER:HB3	2.21	0.40
1:A:138:MET:CE	1:A:306:ILE:HD13	2.32	0.40
1:A:234:ILE:HG23	1:B:727:PHE:HD1	1.87	0.40
1:A:347:ALA:O	1:A:350:LEU:HB2	2.21	0.40
1:A:399:VAL:O	1:A:401:ALA:N	2.54	0.40
1:A:753:ALA:HB3	1:A:754:TRP:CD1	2.56	0.40
1:A:1016:VAL:O	1:A:1016:VAL:CG1	2.69	0.40
1:B:2:PRO:O	1:B:3:ASN:HB2	2.20	0.40
1:B:57:VAL:C	1:B:58:GLN:O	2.60	0.40
1:B:462:SER:HB3	1:B:865:GLN:NE2	2.35	0.40
1:B:602:GLU:H	1:B:602:GLU:HG2	1.48	0.40
1:C:102:ILE:CG2	1:C:106:GLN:CG	2.98	0.40
1:C:157:TYR:CE1	1:C:318:PRO:HD3	2.56	0.40
1:C:166:ILE:HG21	1:C:291:ILE:HD11	2.03	0.40
1:C:203:VAL:O	1:C:207:ILE:HG13	2.21	0.40
1:C:399:VAL:HA	1:C:402:ILE:HG13	2.03	0.40
1:C:404:LEU:C	1:C:405:LEU:HD23	2.46	0.40
1:C:405:LEU:HD21	1:C:477:ALA:O	2.21	0.40
1:C:545:TYR:OH	1:C:1021:PHE:O	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:548:ILE:HD13	1:C:907:LEU:HD12	2.01	0.40
1:C:615:PHE:O	1:C:615:PHE:HD2	2.04	0.40
1:C:732:ASP:OD2	1:C:735:LYS:HG3	2.20	0.40
1:C:987:MET:O	1:C:988:PRO:C	2.63	0.40
1:A:115:MET:HE3	1:A:115:MET:HA	2.02	0.40
1:A:157:TYR:CE2	1:A:321:LEU:HD22	2.56	0.40
1:A:162:MET:HE3	1:A:310:LEU:HD22	2.03	0.40
1:A:427:PRO:O	1:A:428:LYS:C	2.61	0.40
1:A:590:VAL:H	1:A:590:VAL:HG23	1.70	0.40
1:A:1008:MET:C	1:A:1009:GLY:O	2.59	0.40
1:B:58:GLN:O	1:B:59:ASP:OD2	2.39	0.40
1:B:103:ALA:O	1:B:104:GLN:O	2.39	0.40
1:B:410:ILE:O	1:B:412:VAL:N	2.54	0.40
1:B:587:THR:OG1	1:B:623:ASN:HA	2.21	0.40
1:B:590:VAL:O	1:B:591:LEU:C	2.63	0.40
1:B:737:GLN:O	1:B:737:GLN:CG	2.70	0.40
1:B:1021:PHE:O	1:B:1025:PHE:CE1	2.74	0.40
1:C:186:ILE:HB	1:C:773:VAL:HA	2.03	0.40
1:C:425:LEU:H	1:C:426:PRO:HD3	1.86	0.40
1:C:456:MET:O	1:C:457:ALA:HB3	2.21	0.40
1:C:662:MET:H	1:C:662:MET:HG2	1.56	0.40
1:C:734:GLU:O	1:C:735:LYS:C	2.63	0.40
1:C:850:LYS:C	1:C:851:LEU:O	2.64	0.40
1:C:878:ALA:O	1:C:879:ILE:C	2.64	0.40
1:A:113:LEU:HD11	1:C:108:GLN:NE2	2.36	0.40
1:A:219:LEU:HD23	1:B:754:TRP:HZ3	1.86	0.40
1:A:240:LEU:HD23	1:A:245:GLU:C	2.46	0.40
1:A:287:SER:O	1:A:288:GLY:O	2.38	0.40
1:A:531:VAL:O	1:A:534:ILE:CG1	2.70	0.40
1:A:638:PRO:CG	1:A:639:GLY:H	2.27	0.40
1:A:797:GLN:O	1:A:799:VAL:HG23	2.21	0.40
1:A:913:LEU:C	1:A:915:ALA:H	2.29	0.40
1:B:24:GLY:HA2	1:B:27:ILE:HG21	2.02	0.40
1:C:417:GLU:C	1:C:418:ARG:O	2.64	0.40
1:C:467:TYR:OH	1:C:925:VAL:HG12	2.21	0.40
1:C:762:PHE:CD2	1:C:763:ILE:N	2.89	0.40
1:A:205:THR:O	1:A:205:THR:CG2	2.49	0.40
1:A:225:VAL:HG12	1:A:226:LYS:N	2.34	0.40
1:A:633:ASP:C	1:A:635:ALA:N	2.78	0.40
1:B:58:GLN:HB2	1:B:82:SER:OG	2.22	0.40
1:B:173:GLY:H	1:B:294:ALA:H	1.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:187:TRP:HA	1:B:774:MET:O	2.22	0.40
1:B:313:MET:HE2	1:B:313:MET:HB3	1.70	0.40
1:B:655:PHE:O	1:B:658:ILE:CG1	2.69	0.40
1:B:696:THR:HG23	1:B:825:MET:HE1	2.04	0.40
1:B:961:ILE:HA	1:B:964:THR:HB	2.04	0.40
1:C:25:LEU:O	1:C:27:ILE:N	2.54	0.40
1:C:34:GLN:H	1:C:34:GLN:HG3	1.76	0.40
1:C:63:GLN:O	1:C:64:VAL:C	2.61	0.40
1:C:106:GLN:H	1:C:106:GLN:HG2	1.63	0.40
1:C:142:VAL:HG13	1:C:321:LEU:HD11	2.03	0.40
1:C:145:THR:N	1:C:320:GLY:O	2.53	0.40
1:C:251:LEU:HD11	1:C:262:LEU:HD12	2.03	0.40
1:C:907:LEU:O	1:C:1013:THR:O	2.39	0.40
1:C:983:ILE:O	1:C:985:GLY:N	2.55	0.40
1:A:73:ASP:H	1:A:106:GLN:HE22	1.69	0.40
1:A:95:GLU:O	1:A:96:SER:C	2.64	0.40
1:A:330:THR:HG23	1:A:334:LYS:CE	2.51	0.40
1:A:348:ILE:HD11	1:A:372:VAL:HG12	2.03	0.40
1:A:492:LEU:HA	1:A:492:LEU:HD12	1.89	0.40
1:A:576:VAL:HG11	1:A:591:LEU:HD23	2.03	0.40
1:A:879:ILE:H	1:A:879:ILE:HG13	1.71	0.40
1:B:11:PHE:HA	1:C:890:ALA:HA	2.04	0.40
1:B:104:GLN:NE2	1:B:108:GLN:NE2	2.70	0.40
1:B:225:VAL:H	1:C:781:MET:CE	2.32	0.40
1:B:344:LEU:HD13	1:B:398:MET:HB2	2.04	0.40
1:B:386:PHE:CD1	1:B:386:PHE:N	2.89	0.40
1:B:759:VAL:HG12	1:B:760:ASN:HB2	2.04	0.40
1:B:863:SER:O	1:B:866:GLU:N	2.53	0.40
1:B:879:ILE:O	1:B:883:VAL:HG23	2.22	0.40
1:C:242:SER:C	1:C:244:GLU:N	2.78	0.40
1:C:291:ILE:O	1:C:291:ILE:HG22	1.99	0.40
1:C:477:ALA:H	1:C:480:LEU:HD23	1.86	0.40
1:C:516:PHE:O	1:C:517:ASN:C	2.65	0.40
1:C:653:ARG:HG3	1:C:654:ALA:N	2.36	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	1018/1053 (97%)	627 (62%)	225 (22%)	166 (16%)	0	0
1	B	1018/1053 (97%)	616 (60%)	246 (24%)	156 (15%)	0	0
1	C	1018/1053 (97%)	642 (63%)	236 (23%)	140 (14%)	0	1
All	All	3054/3159 (97%)	1885 (62%)	707 (23%)	462 (15%)	0	0

All (462) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	63	GLN
1	A	64	VAL
1	A	65	ILE
1	A	73	ASP
1	A	74	ASN
1	A	90	ILE
1	A	96	SER
1	A	135	SER
1	A	137	LEU
1	A	147	GLY
1	A	167	SER
1	A	170	SER
1	A	172	VAL
1	A	174	ASP
1	A	181	GLN
1	A	218	GLN
1	A	221	GLY
1	A	255	GLN
1	A	288	GLY
1	A	293	LEU
1	A	294	ALA
1	A	318	PRO
1	A	376	LEU
1	A	422	GLU

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Mol	Chain	Res	Type
1	A	435	MET
1	A	439	GLN
1	A	443	VAL
1	A	444	GLY
1	A	515	TRP
1	A	521	GLU
1	A	538	THR
1	A	580	ALA
1	A	597	TYR
1	A	601	LYS
1	A	659	LYS
1	A	660	ASP
1	A	672	VAL
1	A	676	THR
1	A	677	ALA
1	A	687	GLN
1	A	689	GLY
1	A	690	LEU
1	A	715	SER
1	A	759	VAL
1	A	775	SER
1	A	784	ASP
1	A	820	ASN
1	A	866	GLU
1	A	868	LEU
1	A	991	ILE
1	A	1016	VAL
1	A	1024	VAL
1	A	1025	PHE
1	B	8	ARG
1	B	12	ALA
1	B	13	TRP
1	B	22	ALA
1	B	50	PRO
1	B	51	GLY
1	B	54	ALA
1	B	56	THR
1	B	85	THR
1	B	98	THR
1	B	112	GLN
1	B	147	GLY
1	B	173	GLY

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Mol	Chain	Res	Type
1	B	228	GLN
1	B	258	SER
1	B	268	ILE
1	B	270	LEU
1	B	326	PRO
1	B	357	LEU
1	B	361	ASN
1	B	408	ASP
1	B	409	ALA
1	B	424	GLY
1	B	466	ILE
1	B	535	LEU
1	B	536	ARG
1	B	538	THR
1	B	549	VAL
1	B	567	GLU
1	B	602	GLU
1	B	606	VAL
1	B	613	ASN
1	B	638	PRO
1	B	644	VAL
1	B	647	ILE
1	B	655	PHE
1	B	671	ILE
1	B	693	GLU
1	B	703	LEU
1	B	705	GLU
1	B	712	MET
1	B	715	SER
1	B	733	GLN
1	B	777	ALA
1	B	786	ILE
1	B	805	SER
1	B	851	LEU
1	B	871	ASN
1	B	907	LEU
1	B	908	GLY
1	B	921	LEU
1	B	1012	VAL
1	B	1034	SER
1	C	19	ILE
1	C	52	ALA

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Mol	Chain	Res	Type
1	C	61	VAL
1	C	81	ASN
1	C	95	GLU
1	C	164	ASP
1	C	167	SER
1	C	187	TRP
1	C	226	LYS
1	C	258	SER
1	C	311	ALA
1	C	319	SER
1	C	336	SER
1	C	366	LEU
1	C	404	LEU
1	C	410	ILE
1	C	411	VAL
1	C	418	ARG
1	C	419	VAL
1	C	460	GLY
1	C	464	GLY
1	C	532	GLY
1	C	536	ARG
1	C	601	LYS
1	C	658	ILE
1	C	690	LEU
1	C	696	THR
1	C	715	SER
1	C	720	GLY
1	C	778	LYS
1	C	869	SER
1	C	871	ASN
1	C	872	GLN
1	C	905	VAL
1	C	925	VAL
1	C	946	VAL
1	C	952	LEU
1	C	960	LEU
1	C	965	LEU
1	C	983	ILE
1	C	989	LEU
1	C	993	THR
1	C	1017	LEU
1	C	1035	ARG

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Mol	Chain	Res	Type
1	A	18	ILE
1	A	53	ASP
1	A	67	GLN
1	A	105	VAL
1	A	109	ASN
1	A	146	ASP
1	A	192	GLU
1	A	206	ALA
1	A	217	GLY
1	A	256	ASP
1	A	317	PHE
1	A	353	LEU
1	A	357	LEU
1	A	372	VAL
1	A	411	VAL
1	A	428	LYS
1	A	459	PHE
1	A	496	MET
1	A	535	LEU
1	A	582	ALA
1	A	634	TRP
1	A	638	PRO
1	A	651	ALA
1	A	654	ALA
1	A	679	GLY
1	A	713	LEU
1	A	730	ASP
1	A	752	ALA
1	A	753	ALA
1	A	794	ALA
1	A	881	LEU
1	A	903	LEU
1	A	925	VAL
1	A	931	LEU
1	A	951	ASP
1	A	957	GLY
1	A	958	LYS
1	A	964	THR
1	A	971	ARG
1	A	1004	GLY
1	A	1005	THR
1	A	1010	GLY

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Mol	Chain	Res	Type
1	A	1034	SER
1	B	2	PRO
1	B	48	SER
1	B	69	MET
1	B	104	GLN
1	B	110	LYS
1	B	125	GLN
1	B	131	LYS
1	B	171	GLY
1	B	175	VAL
1	B	265	VAL
1	B	319	SER
1	B	327	TYR
1	B	363	ARG
1	B	461	GLY
1	B	491	ALA
1	B	495	THR
1	B	519	MET
1	B	539	GLY
1	B	601	LYS
1	B	603	LYS
1	B	618	ALA
1	B	621	GLY
1	B	659	LYS
1	B	669	PRO
1	B	675	GLY
1	B	711	ASP
1	B	730	ASP
1	B	820	ASN
1	B	821	GLY
1	B	831	ALA
1	B	834	GLY
1	B	852	PRO
1	B	863	SER
1	B	919	ARG
1	B	942	ALA
1	B	943	ILE
1	B	959	GLY
1	B	966	ASP
1	B	1011	MET
1	B	1013	THR
1	C	10	ILE

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Mol	Chain	Res	Type
1	C	51	GLY
1	C	54	ALA
1	C	67	GLN
1	C	160	ALA
1	C	255	GLN
1	C	394	THR
1	C	447	MET
1	C	451	ALA
1	C	535	LEU
1	C	537	SER
1	C	540	ARG
1	C	546	LEU
1	C	576	VAL
1	C	577	GLN
1	C	593	GLU
1	C	620	ARG
1	C	671	ILE
1	C	673	GLU
1	C	697	GLN
1	C	706	ALA
1	C	716	VAL
1	C	837	THR
1	C	867	ARG
1	C	890	ALA
1	C	895	TRP
1	C	935	ILE
1	C	950	LYS
1	C	975	ILE
1	C	984	LEU
1	C	998	GLY
1	C	1029	VAL
1	A	12	ALA
1	A	54	ALA
1	A	69	MET
1	A	116	PRO
1	A	265	VAL
1	A	319	SER
1	A	330	THR
1	A	354	VAL
1	A	362	PHE
1	A	400	LEU
1	A	421	ALA

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Mol	Chain	Res	Type
1	A	446	ALA
1	A	539	GLY
1	A	566	ASP
1	A	600	THR
1	A	692	HIS
1	A	714	THR
1	A	751	GLY
1	A	844	MET
1	A	869	SER
1	A	887	CYS
1	A	892	TYR
1	A	950	LYS
1	A	988	PRO
1	B	31	PRO
1	B	140	VAL
1	B	254	ASN
1	B	400	LEU
1	B	471	SER
1	B	677	ALA
1	B	689	GLY
1	B	692	HIS
1	B	783	PRO
1	B	891	LEU
1	B	909	VAL
1	B	918	PHE
1	B	1026	PHE
1	C	18	ILE
1	C	257	GLY
1	C	327	TYR
1	C	357	LEU
1	C	438	ILE
1	C	468	ARG
1	C	491	ALA
1	C	519	MET
1	C	530	SER
1	C	550	VAL
1	C	664	PHE
1	C	675	GLY
1	C	678	THR
1	C	852	PRO
1	C	926	TYR
1	C	994	GLY

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Mol	Chain	Res	Type
1	C	1010	GLY
1	A	15	ILE
1	A	19	ILE
1	A	191	ASN
1	A	301	ASP
1	A	377	LEU
1	A	407	ASP
1	A	436	GLY
1	A	458	PHE
1	A	517	ASN
1	A	537	SER
1	A	544	LEU
1	A	675	GLY
1	A	688	ALA
1	A	795	ASP
1	A	886	LEU
1	A	907	LEU
1	A	923	ASN
1	A	960	LEU
1	A	989	LEU
1	A	1031	ARG
1	B	55	LYS
1	B	59	ASP
1	B	72	ILE
1	B	103	ALA
1	B	105	VAL
1	B	414	GLU
1	B	422	GLU
1	B	444	GLY
1	B	465	ALA
1	B	473	THR
1	B	517	ASN
1	B	640	GLU
1	B	688	ALA
1	B	708	LYS
1	B	729	ILE
1	B	835	LYS
1	B	937	LEU
1	B	941	ASN
1	B	954	ASP
1	B	1014	ALA
1	C	34	GLN

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Mol	Chain	Res	Type
1	C	85	THR
1	C	104	GLN
1	C	146	ASP
1	C	190	PRO
1	C	252	LYS
1	C	355	MET
1	C	422	GLU
1	C	427	PRO
1	C	492	LEU
1	C	520	PHE
1	C	521	GLU
1	C	545	TYR
1	C	639	GLY
1	C	709	HIS
1	C	851	LEU
1	C	976	LEU
1	C	990	VAL
1	A	361	ASN
1	A	408	ASP
1	A	434	SER
1	A	453	PHE
1	A	548	ILE
1	A	656	SER
1	A	896	SER
1	A	996	GLY
1	B	19	ILE
1	B	109	ASN
1	B	115	MET
1	B	127	VAL
1	B	157	TYR
1	B	381	ALA
1	B	407	ASP
1	B	427	PRO
1	B	656	SER
1	B	781	MET
1	B	845	GLU
1	C	3	ASN
1	C	32	VAL
1	C	163	LYS
1	C	223	PRO
1	C	345	VAL
1	C	424	GLY

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Mol	Chain	Res	Type
1	C	425	LEU
1	C	426	PRO
1	C	490	PRO
1	C	582	ALA
1	C	592	ASN
1	C	602	GLU
1	C	777	ALA
1	C	967	ALA
1	C	988	PRO
1	A	277	ILE
1	A	455	PRO
1	A	650	ARG
1	A	874	PRO
1	B	224	PRO
1	B	428	LYS
1	B	460	GLY
1	B	870	GLY
1	B	874	PRO
1	C	50	PRO
1	C	306	ILE
1	C	477	ALA
1	A	36	PRO
1	A	43	VAL
1	A	224	PRO
1	A	320	GLY
1	A	570	GLY
1	A	729	ILE
1	B	315	PRO
1	B	672	VAL
1	C	15	ILE
1	C	166	ILE
1	C	172	VAL
1	C	220	GLY
1	C	717	ARG
1	C	786	ILE
1	C	1007	VAL
1	A	186	ILE
1	A	549	VAL
1	B	223	PRO
1	B	402	ILE
1	B	550	VAL
1	B	796	GLY

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Mol	Chain	Res	Type
1	B	1016	VAL
1	C	644	VAL
1	A	50	PRO
1	A	345	VAL
1	A	773	VAL
1	A	1012	VAL
1	B	36	PRO
1	B	253	VAL
1	B	578	LEU
1	B	901	VAL
1	A	207	ILE
1	A	452	VAL
1	B	222	THR
1	B	833	PRO
1	C	9	PRO
1	C	315	PRO
1	B	107	VAL
1	C	1028	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	833/859 (97%)	645 (77%)	188 (23%)	1	4
1	B	833/859 (97%)	641 (77%)	192 (23%)	1	4
1	C	833/859 (97%)	635 (76%)	198 (24%)	1	3
All	All	2499/2577 (97%)	1921 (77%)	578 (23%)	1	4

All (578) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ASN
1	A	4	PHE
1	A	6	ILE
1	A	14	VAL

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Mol	Chain	Res	Type
1	A	19	ILE
1	A	21	LEU
1	A	38	ILE
1	A	45	ILE
1	A	53	ASP
1	A	55	LYS
1	A	58	GLN
1	A	59	ASP
1	A	60	THR
1	A	63	GLN
1	A	65	ILE
1	A	66	GLU
1	A	69	MET
1	A	75	LEU
1	A	78	MET
1	A	79	SER
1	A	80	SER
1	A	84	SER
1	A	88	VAL
1	A	89	GLN
1	A	91	THR
1	A	92	LEU
1	A	93	THR
1	A	98	THR
1	A	106	GLN
1	A	107	VAL
1	A	109	ASN
1	A	110	LYS
1	A	115	MET
1	A	117	LEU
1	A	120	GLN
1	A	123	GLN
1	A	130	GLU
1	A	137	LEU
1	A	139	VAL
1	A	143	ILE
1	A	150	THR
1	A	164	ASP
1	A	166	ILE
1	A	180	SER
1	A	193	LEU
1	A	213	GLN

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Mol	Chain	Res	Type
1	A	222	THR
1	A	226	LYS
1	A	233	SER
1	A	243	THR
1	A	254	ASN
1	A	260	VAL
1	A	273	GLU
1	A	277	ILE
1	A	284	GLN
1	A	298	ASN
1	A	302	THR
1	A	310	LEU
1	A	321	LEU
1	A	323	ILE
1	A	330	THR
1	A	335	ILE
1	A	337	ILE
1	A	339	GLU
1	A	340	VAL
1	A	341	VAL
1	A	349	ILE
1	A	351	VAL
1	A	356	TYR
1	A	357	LEU
1	A	359	LEU
1	A	361	ASN
1	A	363	ARG
1	A	367	ILE
1	A	370	ILE
1	A	376	LEU
1	A	389	SER
1	A	390	ILE
1	A	394	THR
1	A	400	LEU
1	A	404	LEU
1	A	405	LEU
1	A	406	VAL
1	A	410	ILE
1	A	414	GLU
1	A	417	GLU
1	A	419	VAL
1	A	420	MET

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Mol	Chain	Res	Type
1	A	425	LEU
1	A	429	GLU
1	A	433	LYS
1	A	438	ILE
1	A	442	LEU
1	A	445	ILE
1	A	447	MET
1	A	455	PRO
1	A	480	LEU
1	A	481	SER
1	A	484	VAL
1	A	498	LYS
1	A	518	ARG
1	A	521	GLU
1	A	522	LYS
1	A	544	LEU
1	A	546	LEU
1	A	550	VAL
1	A	557	VAL
1	A	572	PHE
1	A	573	MET
1	A	576	VAL
1	A	577	GLN
1	A	578	LEU
1	A	588	GLN
1	A	597	TYR
1	A	603	LYS
1	A	607	GLU
1	A	609	VAL
1	A	617	PHE
1	A	623	ASN
1	A	629	VAL
1	A	630	SER
1	A	641	GLU
1	A	647	ILE
1	A	659	LYS
1	A	668	LEU
1	A	671	ILE
1	A	672	VAL
1	A	673	GLU
1	A	674	LEU
1	A	676	THR

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Mol	Chain	Res	Type
1	A	687	GLN
1	A	693	GLU
1	A	701	GLN
1	A	702	LEU
1	A	705	GLU
1	A	711	ASP
1	A	713	LEU
1	A	714	THR
1	A	719	ASN
1	A	722	GLU
1	A	731	ILE
1	A	750	LEU
1	A	758	TYR
1	A	763	ILE
1	A	768	VAL
1	A	774	MET
1	A	775	SER
1	A	780	ARG
1	A	782	LEU
1	A	786	ILE
1	A	788	ASP
1	A	801	PHE
1	A	807	SER
1	A	815	ARG
1	A	818	ARG
1	A	843	LEU
1	A	846	GLN
1	A	855	VAL
1	A	868	LEU
1	A	872	GLN
1	A	879	ILE
1	A	887	CYS
1	A	899	PHE
1	A	902	MET
1	A	904	VAL
1	A	917	THR
1	A	919	ARG
1	A	929	VAL
1	A	933	THR
1	A	952	LEU
1	A	954	ASP
1	A	955	LYS

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Mol	Chain	Res	Type
1	A	960	LEU
1	A	961	ILE
1	A	971	ARG
1	A	972	LEU
1	A	976	LEU
1	A	978	THR
1	A	979	SER
1	A	983	ILE
1	A	986	VAL
1	A	992	SER
1	A	993	THR
1	A	1013	THR
1	A	1022	VAL
1	A	1029	VAL
1	A	1030	ARG
1	A	1036	LYS
1	B	6	ILE
1	B	8	ARG
1	B	13	TRP
1	B	15	ILE
1	B	17	ILE
1	B	21	LEU
1	B	50	PRO
1	B	57	VAL
1	B	59	ASP
1	B	61	VAL
1	B	64	VAL
1	B	67	GLN
1	B	70	ASN
1	B	72	ILE
1	B	73	ASP
1	B	74	ASN
1	B	81	ASN
1	B	87	THR
1	B	88	VAL
1	B	91	THR
1	B	92	LEU
1	B	93	THR
1	B	102	ILE
1	B	104	GLN
1	B	110	LYS
1	B	115	MET

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Mol	Chain	Res	Type
1	B	121	GLU
1	B	129	VAL
1	B	131	LYS
1	B	136	PHE
1	B	140	VAL
1	B	143	ILE
1	B	144	ASN
1	B	145	THR
1	B	150	THR
1	B	166	ILE
1	B	174	ASP
1	B	176	GLN
1	B	180	SER
1	B	182	TYR
1	B	185	ARG
1	B	188	MET
1	B	191	ASN
1	B	193	LEU
1	B	202	ASP
1	B	219	LEU
1	B	223	PRO
1	B	224	PRO
1	B	226	LYS
1	B	234	ILE
1	B	235	ILE
1	B	237	GLN
1	B	243	THR
1	B	250	LEU
1	B	253	VAL
1	B	254	ASN
1	B	256	ASP
1	B	261	LEU
1	B	269	GLU
1	B	270	LEU
1	B	280	GLU
1	B	289	LEU
1	B	292	LYS
1	B	293	LEU
1	B	298	ASN
1	B	319	SER
1	B	323	ILE
1	B	330	THR

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Mol	Chain	Res	Type
1	B	335	ILE
1	B	336	SER
1	B	341	VAL
1	B	342	LYS
1	B	343	THR
1	B	344	LEU
1	B	354	VAL
1	B	357	LEU
1	B	365	THR
1	B	372	VAL
1	B	379	THR
1	B	386	PHE
1	B	394	THR
1	B	398	MET
1	B	399	VAL
1	B	404	LEU
1	B	410	ILE
1	B	411	VAL
1	B	416	VAL
1	B	417	GLU
1	B	420	MET
1	B	428	LYS
1	B	435	MET
1	B	437	GLN
1	B	452	VAL
1	B	454	VAL
1	B	456	MET
1	B	466	ILE
1	B	473	THR
1	B	480	LEU
1	B	488	LEU
1	B	496	MET
1	B	497	LEU
1	B	513	PHE
1	B	516	PHE
1	B	523	SER
1	B	538	THR
1	B	549	VAL
1	B	554	TYR
1	B	555	LEU
1	B	557	VAL
1	B	558	ARG

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Mol	Chain	Res	Type
1	B	574	THR
1	B	591	LEU
1	B	595	THR
1	B	601	LYS
1	B	612	VAL
1	B	623	ASN
1	B	624	THR
1	B	629	VAL
1	B	641	GLU
1	B	648	THR
1	B	649	MET
1	B	652	THR
1	B	653	ARG
1	B	655	PHE
1	B	656	SER
1	B	659	LYS
1	B	668	LEU
1	B	671	ILE
1	B	672	VAL
1	B	676	THR
1	B	680	PHE
1	B	692	HIS
1	B	694	LYS
1	B	696	THR
1	B	699	ARG
1	B	703	LEU
1	B	711	ASP
1	B	712	MET
1	B	731	ILE
1	B	735	LYS
1	B	743	ILE
1	B	744	ASN
1	B	760	ASN
1	B	764	ASP
1	B	770	LYS
1	B	778	LYS
1	B	781	MET
1	B	782	LEU
1	B	788	ASP
1	B	797	GLN
1	B	799	VAL
1	B	808	ARG

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Mol	Chain	Res	Type
1	B	813	SER
1	B	828	LEU
1	B	830	GLN
1	B	836	SER
1	B	847	LEU
1	B	864	TYR
1	B	871	ASN
1	B	875	SER
1	B	876	LEU
1	B	879	ILE
1	B	880	SER
1	B	891	LEU
1	B	893	GLU
1	B	895	TRP
1	B	900	SER
1	B	913	LEU
1	B	921	LEU
1	B	922	THR
1	B	943	ILE
1	B	946	VAL
1	B	951	ASP
1	B	953	MET
1	B	956	GLU
1	B	960	LEU
1	B	965	LEU
1	B	966	ASP
1	B	970	MET
1	B	972	LEU
1	B	977	MET
1	B	978	THR
1	B	984	LEU
1	B	987	MET
1	B	989	LEU
1	B	993	THR
1	B	1005	THR
1	B	1012	VAL
1	B	1017	LEU
1	B	1019	ILE
1	B	1027	VAL
1	B	1036	LYS
1	C	4	PHE
1	C	10	ILE

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Mol	Chain	Res	Type
1	C	13	TRP
1	C	17	ILE
1	C	19	ILE
1	C	29	LYS
1	C	32	VAL
1	C	37	THR
1	C	48	SER
1	C	50	PRO
1	C	58	GLN
1	C	60	THR
1	C	62	THR
1	C	63	GLN
1	C	64	VAL
1	C	70	ASN
1	C	75	LEU
1	C	83	ASP
1	C	89	GLN
1	C	91	THR
1	C	92	LEU
1	C	104	GLN
1	C	107	VAL
1	C	110	LYS
1	C	111	LEU
1	C	118	LEU
1	C	137	LEU
1	C	138	MET
1	C	140	VAL
1	C	142	VAL
1	C	143	ILE
1	C	146	ASP
1	C	148	THR
1	C	149	MET
1	C	152	GLU
1	C	158	VAL
1	C	162	MET
1	C	163	LYS
1	C	164	ASP
1	C	169	THR
1	C	170	SER
1	C	177	LEU
1	C	188	MET
1	C	189	ASN

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Mol	Chain	Res	Type
1	C	191	ASN
1	C	192	GLU
1	C	194	ASN
1	C	195	LYS
1	C	204	ILE
1	C	207	ILE
1	C	210	GLN
1	C	211	ASN
1	C	228	GLN
1	C	235	ILE
1	C	238	THR
1	C	239	ARG
1	C	245	GLU
1	C	252	LYS
1	C	253	VAL
1	C	258	SER
1	C	259	ARG
1	C	265	VAL
1	C	268	ILE
1	C	269	GLU
1	C	273	GLU
1	C	274	ASN
1	C	291	ILE
1	C	293	LEU
1	C	295	THR
1	C	300	LEU
1	C	313	MET
1	C	316	PHE
1	C	317	PHE
1	C	321	LEU
1	C	324	VAL
1	C	337	ILE
1	C	341	VAL
1	C	346	GLU
1	C	349	ILE
1	C	351	VAL
1	C	355	MET
1	C	367	ILE
1	C	372	VAL
1	C	395	MET
1	C	406	VAL
1	C	415	ASN

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Mol	Chain	Res	Type
1	C	416	VAL
1	C	417	GLU
1	C	419	VAL
1	C	425	LEU
1	C	432	ARG
1	C	437	GLN
1	C	438	ILE
1	C	458	PHE
1	C	459	PHE
1	C	468	ARG
1	C	475	VAL
1	C	481	SER
1	C	492	LEU
1	C	493	CYS
1	C	496	MET
1	C	497	LEU
1	C	521	GLU
1	C	523	SER
1	C	535	LEU
1	C	536	ARG
1	C	538	THR
1	C	544	LEU
1	C	546	LEU
1	C	564	LEU
1	C	568	ASP
1	C	571	VAL
1	C	576	VAL
1	C	577	GLN
1	C	588	GLN
1	C	591	LEU
1	C	592	ASN
1	C	608	SER
1	C	613	ASN
1	C	624	THR
1	C	626	ILE
1	C	630	SER
1	C	641	GLU
1	C	647	ILE
1	C	648	THR
1	C	650	ARG
1	C	662	MET
1	C	666	PHE

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Mol	Chain	Res	Type
1	C	668	LEU
1	C	674	LEU
1	C	676	THR
1	C	685	ILE
1	C	694	LYS
1	C	695	LEU
1	C	696	THR
1	C	699	ARG
1	C	712	MET
1	C	713	LEU
1	C	716	VAL
1	C	719	ASN
1	C	724	THR
1	C	728	LYS
1	C	730	ASP
1	C	733	GLN
1	C	743	ILE
1	C	745	ASP
1	C	750	LEU
1	C	758	TYR
1	C	759	VAL
1	C	763	ILE
1	C	765	ARG
1	C	768	VAL
1	C	769	LYS
1	C	770	LYS
1	C	778	LYS
1	C	782	LEU
1	C	783	PRO
1	C	792	ARG
1	C	799	VAL
1	C	805	SER
1	C	808	ARG
1	C	813	SER
1	C	826	GLU
1	C	828	LEU
1	C	837	THR
1	C	839	GLU
1	C	841	MET
1	C	847	LEU
1	C	850	LYS
1	C	860	THR

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Mol	Chain	Res	Type
1	C	868	LEU
1	C	872	GLN
1	C	876	LEU
1	C	885	PHE
1	C	899	PHE
1	C	904	VAL
1	C	914	LEU
1	C	919	ARG
1	C	921	LEU
1	C	931	LEU
1	C	935	ILE
1	C	938	SER
1	C	941	ASN
1	C	945	ILE
1	C	952	LEU
1	C	958	LYS
1	C	960	LEU
1	C	979	SER
1	C	980	LEU
1	C	984	LEU
1	C	989	LEU
1	C	991	ILE
1	C	993	THR
1	C	1007	VAL
1	C	1021	PHE
1	C	1030	ARG
1	C	1035	ARG
1	C	1036	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (97) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	3	ASN
1	A	67	GLN
1	A	68	ASN
1	A	70	ASN
1	A	106	GLN
1	A	108	GLN
1	A	109	ASN
1	A	123	GLN
1	A	144	ASN
1	A	151	GLN

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Mol	Chain	Res	Type
1	A	181	GLN
1	A	191	ASN
1	A	210	GLN
1	A	213	GLN
1	A	231	ASN
1	A	254	ASN
1	A	274	ASN
1	A	282	ASN
1	A	284	GLN
1	A	298	ASN
1	A	360	GLN
1	A	361	ASN
1	A	517	ASN
1	A	577	GLN
1	A	592	ASN
1	A	622	GLN
1	A	687	GLN
1	A	719	ASN
1	A	846	GLN
1	A	865	GLN
1	A	871	ASN
1	A	928	GLN
1	A	1001	ASN
1	B	68	ASN
1	B	70	ASN
1	B	104	GLN
1	B	109	ASN
1	B	112	GLN
1	B	123	GLN
1	B	125	GLN
1	B	151	GLN
1	B	161	ASN
1	B	189	ASN
1	B	191	ASN
1	B	194	ASN
1	B	210	GLN
1	B	213	GLN
1	B	218	GLN
1	B	228	GLN
1	B	231	ASN
1	B	254	ASN
1	B	415	ASN

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Mol	Chain	Res	Type
1	B	437	GLN
1	B	439	GLN
1	B	469	GLN
1	B	517	ASN
1	B	526	HIS
1	B	577	GLN
1	B	584	GLN
1	B	613	ASN
1	B	623	ASN
1	B	642	ASN
1	B	667	ASN
1	B	726	GLN
1	B	744	ASN
1	B	760	ASN
1	B	830	GLN
1	B	846	GLN
1	B	865	GLN
1	B	872	GLN
1	B	1001	ASN
1	C	3	ASN
1	C	63	GLN
1	C	68	ASN
1	C	104	GLN
1	C	120	GLN
1	C	123	GLN
1	C	144	ASN
1	C	176	GLN
1	C	189	ASN
1	C	197	GLN
1	C	211	ASN
1	C	213	GLN
1	C	231	ASN
1	C	237	GLN
1	C	391	ASN
1	C	415	ASN
1	C	439	GLN
1	C	584	GLN
1	C	588	GLN
1	C	592	ASN
1	C	622	GLN
1	C	667	ASN
1	C	846	GLN

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Mol	Chain	Res	Type
1	C	872	GLN
1	C	923	ASN
1	C	941	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand is 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	MIY	A	2001	-	36,36,36	1.36	5 (13%)	42,58,58	2.51	18 (42%)

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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	MIY	A	2001	-	-	5/12/70/70	0/4/4/4

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	2001	MIY	C4-N1	4.29	1.56	1.47
2	A	2001	MIY	C18-C17	3.08	1.54	1.52
2	A	2001	MIY	C5-C4	2.46	1.57	1.54
2	A	2001	MIY	C4-C3	2.45	1.56	1.51
2	A	2001	MIY	C8-C9	2.10	1.54	1.51

All (18) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2001	MIY	C1-C18-C17	8.44	119.78	109.88
2	A	2001	MIY	O7-C18-C17	-4.52	102.92	110.14
2	A	2001	MIY	C18-C17-C16	4.14	127.27	123.06
2	A	2001	MIY	C13-C14-C9	4.12	123.45	119.03
2	A	2001	MIY	O6-C17-C16	-4.00	115.77	123.52
2	A	2001	MIY	CN7-N7-C10	-3.93	102.99	115.16
2	A	2001	MIY	O5-C15-C14	-3.32	116.06	122.06
2	A	2001	MIY	C71-N7-CN7	-3.06	106.33	116.18
2	A	2001	MIY	O2-C3-C2	-3.02	117.89	122.93
2	A	2001	MIY	C13-C14-C15	-2.99	117.03	121.45
2	A	2001	MIY	C18-C1-C2	2.85	120.28	115.75
2	A	2001	MIY	O6-C17-C18	2.37	116.80	113.37
2	A	2001	MIY	C6-C5-C4	2.37	117.16	113.73
2	A	2001	MIY	C11-C10-N7	-2.25	118.55	121.65
2	A	2001	MIY	C19-N1-C4	2.15	119.00	114.10
2	A	2001	MIY	C9-C10-N7	2.08	121.36	118.87
2	A	2001	MIY	O5-C15-C16	2.06	124.72	121.14
2	A	2001	MIY	O1-C1-C2	-2.02	118.97	123.23

There are no chirality outliers.

All (5) torsion outliers are listed below:

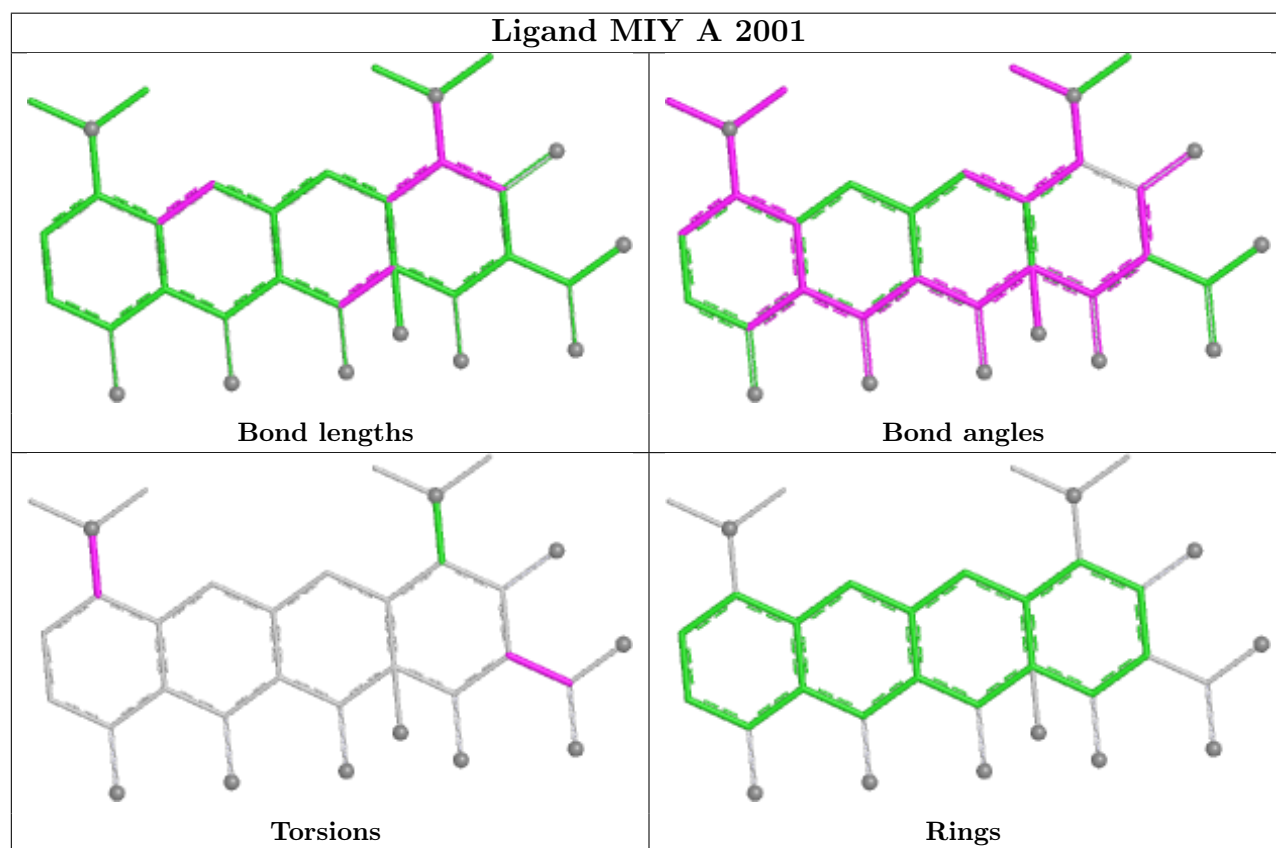
Mol	Chain	Res	Type	Atoms
2	A	2001	MIY	C1-C2-C21-O8
2	A	2001	MIY	C1-C2-C21-N2
2	A	2001	MIY	C3-C2-C21-N2
2	A	2001	MIY	C3-C2-C21-O8
2	A	2001	MIY	C9-C10-N7-CN7

There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	2001	MIY	2	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

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	1022/1053 (97%)	-0.63	0 100 100	3, 87, 108, 120	0
1	B	1022/1053 (97%)	-0.43	4 (0%) 88 76	42, 93, 108, 120	0
1	C	1022/1053 (97%)	-0.63	4 (0%) 88 76	5, 84, 109, 120	0
All	All	3066/3159 (97%)	-0.57	8 (0%) 90 80	3, 88, 108, 120	0

All (8) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	194	ASN	3.3
1	C	670	ALA	3.1
1	B	52	ALA	3.0
1	C	656	SER	2.7
1	B	145	THR	2.3
1	B	414	GLU	2.2
1	B	553	ALA	2.1
1	C	414	GLU	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.

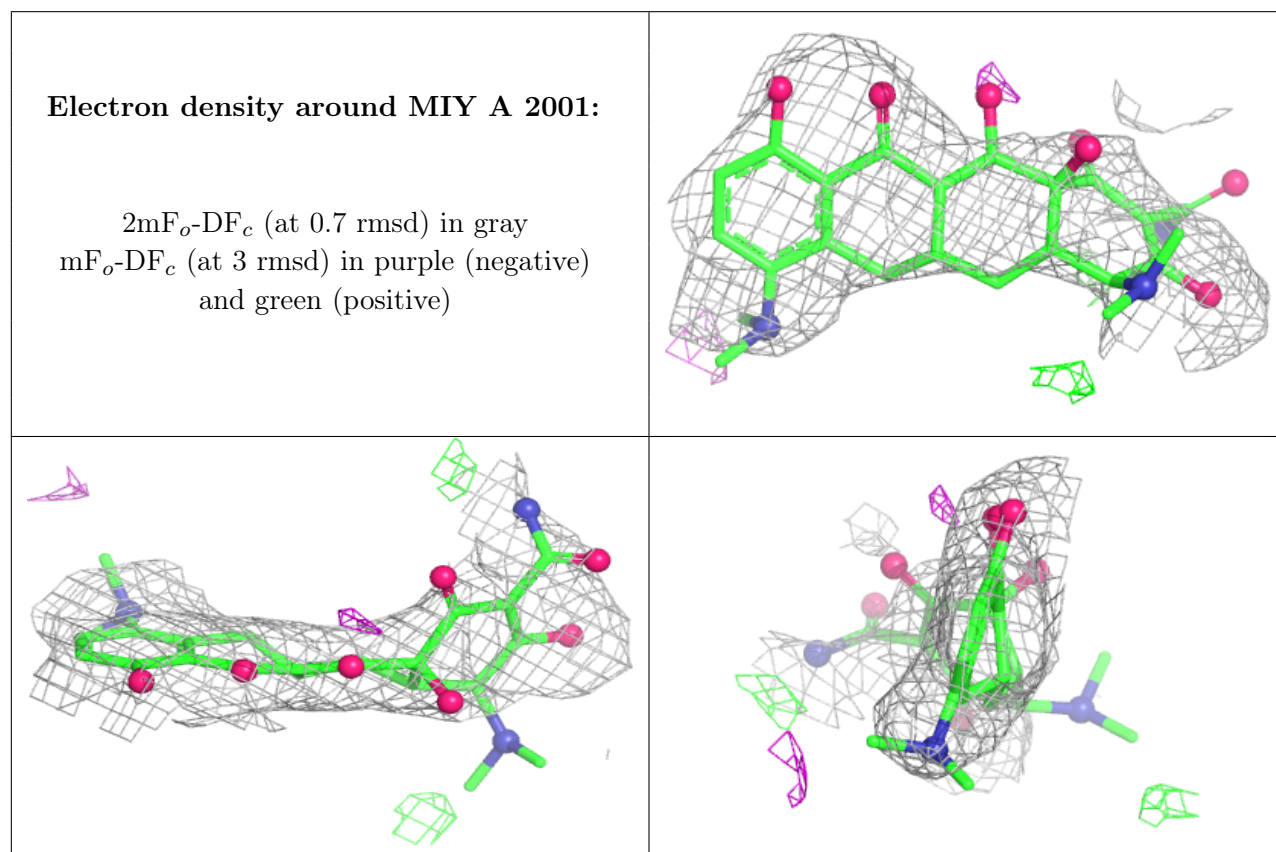
6.4 Ligands [i](#)

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(Å ²)	Q<0.9
2	MIY	A	2001	33/33	0.84	0.11	112,122,129,131	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.



6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.