



# Full wwPDB X-ray Structure Validation Report

Feb 27, 2014 – 10:09 PM GMT

PDB ID : 2DHH  
Title : Crystal structure of a multidrug transporter reveal a functionally rotating mechanism  
Authors : Murakami, S.; Nakashima, R.; Yamashita, E.; Matsumoto, T.  
Deposited on : 2006-03-23  
Resolution : 2.80 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.  
We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)  
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

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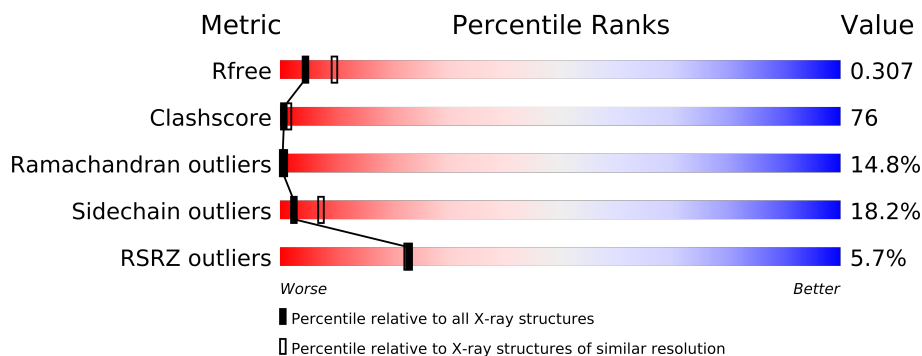
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.15 2013  
Xtriage (Phenix) : dev-1323  
EDS : stable22639  
Percentile statistics : 21963  
Refmac : 5.8.0049  
CCP4 : 6.3.0 (Settle)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : stable22683

# 1 Overall quality at a glance

The reported resolution of this entry is 2.80 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))
$R_{free}$	66092	1799 (2.80-2.80)
Clashscore	79885	2295 (2.80-2.80)
Ramachandran outliers	78287	2252 (2.80-2.80)
Sidechain outliers	78261	2254 (2.80-2.80)
RSRZ outliers	66119	1802 (2.80-2.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	1053	
1	B	1053	
1	C	1053	

## 2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 23378 atoms, of which 0 are hydrogen and 0 are deuterium.

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
1	A	1022	Total	C	N	O	S	0	0	0
			7774	5003	1283	1444	44			
1	B	1022	Total	C	N	O	S	0	0	0
			7774	5003	1283	1444	44			
1	C	1022	Total	C	N	O	S	0	0	0
			7774	5003	1283	1444	44			

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

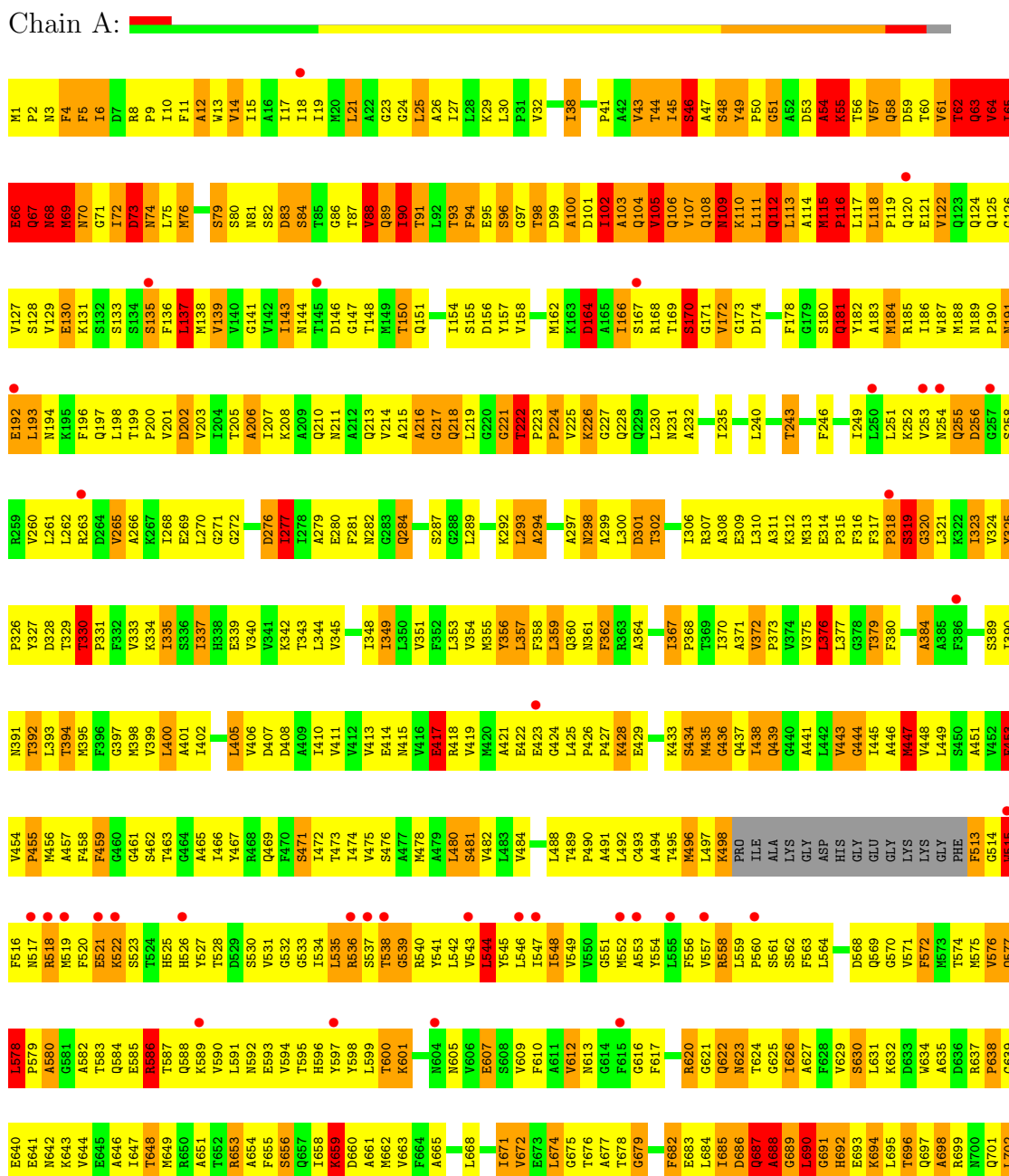
- Molecule 2 is water.

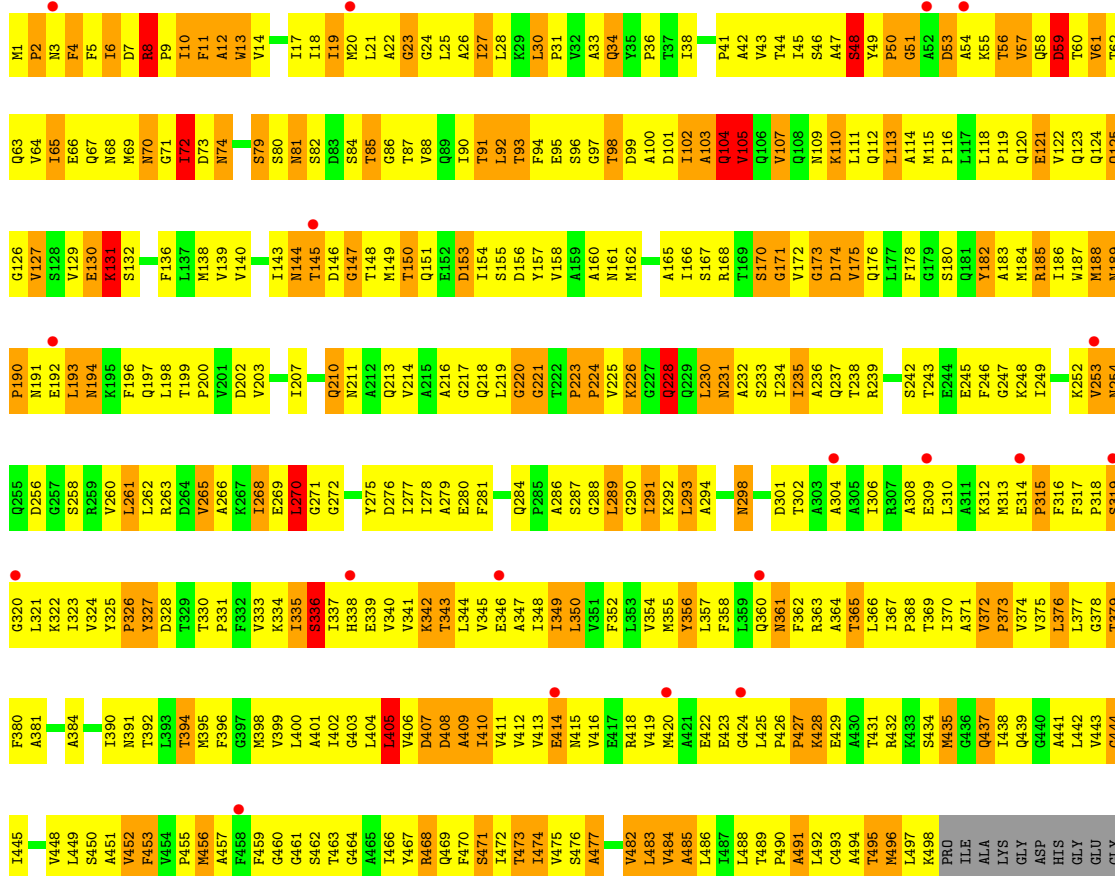
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	22	Total	O	0	0
			22	22		
2	B	8	Total	O	0	0
			8	8		
2	C	26	Total	O	0	0
			26	26		

### 3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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







T993	L932	Q872	G812	T749	D686	G621	A553	C493	R432	L370	L310
G994	T933	A873	S813	L750	Q687	Q622	T654	A494	K433	A371	A311
S997	T934	P874	R814	G751	A688	M623	T555	T495	S434	V372	K312
G998	L935	S875	R815	A752	Q689	T624	F566	M496	M435	P373	M313
A999	G936	L876	L816	A753	G691	G625	V557	L497	G436	V374	E314
Q1000	L937	T877	R817	A754	H692	T626	R568	K498	Q437	V375	P315
	S938	A878	R818	G755	A627	A627	L559	P80	K438	L376	F316
V1003	A939	L879	R819		H693		P560	I1E	Q439	L377	F317
G1004	K940	S880	M820	Y758	K694	G639	S561	ALA	Q440	G378	P318
	N941	L881	G821	V759	L695	E640	S562	LYS	A441	T379	S319
	A942	L882	L822	N760	T896	E641	F563	GLY	L442	F380	G320
V1007	L943	R883	P823	D761	Q697	M632	L564	ASP	V443		L321
M1008	L944	V884	S824	F762	A698	D634		HIS	G444		L322
G1009	T945	F885	M825	I763	R699	A635	D588	GLY	I445		I323
	V946	L886	E826	D764	Q700		Q569	GLU	A446		V324
G1010	E947	C887	L827	R765	Q701	G639	Q570	GLY	M447		G325
V1012	F948	L888	L828	G766	L702	E640	V571	LYS	F388		P326
A1013	A949	A889	G829	R767	L703	E641	F572	LYS	L448		P327
A1014	K950	A890	Q830	V768	A704	M642	M673	GLY	S450		D328
T1015	D951	L891	A831	K769	E705	K643	T574	PHE	A451		T329
V1016	L952	Y892	A832	K770	A706	V644	P575	F513	V452		T330
L1017	M953	E893	P833	Y771	K708	A646	V576	G514	F453		P331
A1018	D954	S894	G834	Y772	H709	E645	Q577	M515	T394		F332
I1019		R895	K835	W773	P710	T647	L578	F516	N395		V333
F1020	G957	S896	S836	M774	H710	T648	P579	N517	M456		K334
F1021	K958	L897	T837	S775	D711	M649		R518	A457		T335
V1022	G959	P898	G838	E776	M712	R650	R586	M519	F458		S336
P1023	L960	R899	E839	A777	L713		T587	F520	F459		I337
V1024	L961	S900	M840	K778	T714	R653	Q588	E521	G460		H338
F1025	E962	V901	A841	Y779	S715	A654	K589	K522	G461		A401
A1026	A963	M902	E842	R780	V716	F655	V590	S523	S462		V340
V1027	T964	L903	L843	H781	R717	S656	L591	T524	T463		G403
L965	L966	V904	M844	L782	F718	Q657	N592	H525	T464		L404
V1029	D966	P905	Q846	D783	N719	T658	V594	Y527	A465		L405
R1030	A967	Q906	Q846	L784	G720	K659		T528	I466		L344
R1031	V968	L907	L847	T785	E721	D660	T595	D529	Y467		V345
R1032	R969	G908	A848	I786	E722	A661	H596	S530	R468		E346
M970	N970	V909	S849	G787	D723	M662	Y597	S531	Q469		I347
F1033	R971	G911	L851	D788	T724	F663	V598	G532	F470		I348
S1034	L972	A912	T851	T789	P725	P664	L599	G533	S471		I349
K1036	R973	L913	P852	W789	Q726	A665	T600	G534			L350
ASN	P974	G914	T853	Y790	F727	F666	K601	L534	I474		V351
GLU	L975	A915	G854	V791	K728	M667	E602	L535	V475		F352
ASP	L976	A915	V855	R992	I729	L668	K603	R536	S476		L353
ILE	M977	A916	G856	A793	D730	F669		S537	A477		V354
GLU	T978	T917	Y857	G796	I731		V606	T538	E417		M355
HIS	S979	F918	D858	Q797	D732	A670	E507	G539	M478		Y356
SER	L980	R919	W859	W798	Q733	V672	S608	R540	A479		L357
HIS	A981	G920	T860	V799	E734	E673	V609	Y541	L480		F358
THR	F982	L921	G861	P800	K735	L674	T610	L542	S481		M420
VAL	L983	T922	M862	F801	A738	Q675	A611	V543	V482		L359
ASP	L984	N923	S863	S802			V612	L544	L483		Q360
HIS	G985	D924	Y864	A803	S742	T678	N613	Y545	V484		N361
HIS	V986	V925	Q865	F804		G679	G614	L546	A485		F362
HIS	M987	Y926	E866	S805	I743	F680	P615	L425	L486		L363
HIS	P988	F927	R867	N744	I743	D681	G616	I547	A487		A364
HIS	L989	Q928	L868	R808	D745	F682	P617	V549	L488		T365
HIS	V990	V929	S869	W809	I746	E683	A618	V550	T489		L366
	L991	G930	G870	E810	N747	L684	G619	G551	P490		I367
	S992	L931	N871	Y811	T748	T685	R620	M552	A491		P368
									L492		T369

## 4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	225.87Å 134.42Å 163.19Å 90.00° 97.71° 90.00°	Depositor
Resolution (Å)	10.00 – 2.80 10.00 – 2.80	Depositor EDS
% Data completeness (in resolution range)	99.0 (10.00-2.80) 99.0 (10.00-2.80)	Depositor EDS
$R_{merge}$	0.08	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.40 (at 2.80Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R, $R_{free}$	0.268 , 0.307 0.265 , 0.307	Depositor DCC
$R_{free}$ test set	5752 reflections (5.26%)	DCC
Wilson B-factor (Å <sup>2</sup> )	73.4	Xtriage
Anisotropy	0.444	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.31 , 74.2	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle  L  \rangle = 0.46$ , $\langle L^2 \rangle = 0.29$	Xtriage
Outliers	0 of 115025 reflections	Xtriage
$F_o, F_c$ correlation	0.92	EDS
Total number of atoms	23378	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	93.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.99% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.



## 5 Model quality i

### 5.1 Standard geometry i

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	1.50	104/7920 (1.3%)	1.28	74/10756 (0.7%)
1	B	1.02	6/7920 (0.1%)	1.05	18/10756 (0.2%)
1	C	1.54	94/7920 (1.2%)	1.33	82/10756 (0.8%)
All	All	1.37	204/23760 (0.9%)	1.23	174/32268 (0.5%)

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	4
1	B	0	2
1	C	0	6
All	All	0	12

All (204) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	67	GLN	CB-CG	23.76	2.16	1.52
1	C	129	VAL	CB-CG2	21.03	1.97	1.52
1	C	167	SER	N-CA	20.35	1.87	1.46
1	A	818	ARG	CG-CD	20.25	2.02	1.51
1	C	166	ILE	CA-CB	20.11	2.01	1.54
1	A	68	ASN	CA-CB	16.05	1.94	1.53
1	C	164	ASP	C-O	15.81	1.53	1.23
1	C	161	ASN	N-CA	14.93	1.76	1.46
1	A	54	ALA	CA-CB	-14.74	1.21	1.52
1	C	45	ILE	CA-CB	14.56	1.88	1.54
1	C	128	SER	CA-CB	14.17	1.74	1.52
1	C	166	ILE	CA-C	-12.56	1.20	1.52
1	C	169	THR	CA-CB	12.51	1.85	1.53
1	C	160	ALA	CA-CB	-12.39	1.26	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	108	GLN	CB-CG	12.39	1.85	1.52
1	A	823	PRO	C-O	12.22	1.47	1.23
1	A	68	ASN	N-CA	12.03	1.70	1.46
1	A	819	TYR	CG-CD1	12.02	1.54	1.39
1	A	63	GLN	N-CA	-11.79	1.22	1.46
1	C	158	VAL	CB-CG2	11.70	1.77	1.52
1	C	157	TYR	C-O	11.57	1.45	1.23
1	A	69	MET	C-O	11.39	1.45	1.23
1	C	767	ARG	CZ-NH2	-11.12	1.18	1.33
1	C	46	SER	CA-CB	10.61	1.68	1.52
1	A	823	PRO	N-CA	-10.60	1.29	1.47
1	A	45	ILE	CA-CB	-10.55	1.30	1.54
1	C	164	ASP	CG-OD2	10.47	1.49	1.25
1	C	42	ALA	CA-CB	-10.25	1.30	1.52
1	C	157	TYR	CE2-CZ	-10.24	1.25	1.38
1	A	65	ILE	C-O	10.17	1.42	1.23
1	C	181	GLN	CD-OE1	10.08	1.46	1.24
1	A	65	ILE	CA-C	10.05	1.79	1.52
1	C	127	VAL	CA-CB	9.97	1.75	1.54
1	C	91	THR	CA-CB	9.49	1.78	1.53
1	A	43	VAL	CB-CG1	-9.27	1.33	1.52
1	A	67	GLN	CA-C	-8.97	1.29	1.52
1	C	161	ASN	CA-CB	-8.83	1.30	1.53
1	A	55	LYS	CD-CE	8.80	1.73	1.51
1	C	289	LEU	N-CA	-8.73	1.28	1.46
1	A	819	TYR	CE2-CZ	8.63	1.49	1.38
1	A	813	SER	CA-CB	8.50	1.65	1.52
1	C	157	TYR	CE1-CZ	-8.49	1.27	1.38
1	A	107	VAL	C-N	8.34	1.53	1.34
1	A	110	LYS	N-CA	-8.34	1.29	1.46
1	C	316	PHE	CG-CD1	-8.30	1.26	1.38
1	C	58	GLN	CB-CG	8.28	1.75	1.52
1	A	105	VAL	C-O	8.19	1.39	1.23
1	A	108	GLN	CA-C	-8.16	1.31	1.52
1	A	66	GLU	CA-C	8.09	1.74	1.52
1	A	819	TYR	CE1-CZ	8.08	1.49	1.38
1	A	61	VAL	CA-CB	7.84	1.71	1.54
1	A	819	TYR	CA-CB	-7.84	1.36	1.53
1	C	316	PHE	CG-CD2	-7.84	1.26	1.38
1	A	70	ASN	CA-C	7.80	1.73	1.52
1	C	104	GLN	CA-CB	7.79	1.71	1.53
1	A	46	SER	CA-CB	-7.77	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	104	GLN	CG-CD	7.74	1.68	1.51
1	A	688	ALA	CA-CB	7.72	1.68	1.52
1	A	73	ASP	CB-CG	7.69	1.68	1.51
1	A	66	GLU	CD-OE1	7.57	1.33	1.25
1	A	811	TYR	CE2-CZ	-7.53	1.28	1.38
1	C	165	ALA	C-O	7.52	1.37	1.23
1	C	772	TYR	CE2-CZ	-7.51	1.28	1.38
1	C	164	ASP	CG-OD1	7.43	1.42	1.25
1	C	166	ILE	N-CA	-7.41	1.31	1.46
1	B	107	VAL	CB-CG1	7.39	1.68	1.52
1	A	819	TYR	C-O	7.38	1.37	1.23
1	A	722	GLU	CB-CG	7.37	1.66	1.52
1	C	127	VAL	CB-CG1	7.32	1.68	1.52
1	A	855	VAL	CB-CG2	-7.29	1.37	1.52
1	C	164	ASP	CB-CG	7.27	1.67	1.51
1	A	69	MET	CB-CG	7.26	1.74	1.51
1	A	818	ARG	C-N	7.24	1.50	1.34
1	C	104	GLN	CG-CD	-7.21	1.34	1.51
1	A	816	LEU	N-CA	-7.19	1.31	1.46
1	C	94	PHE	CD2-CE2	-7.15	1.25	1.39
1	C	94	PHE	CD1-CE1	-7.14	1.25	1.39
1	C	297	ALA	CA-CB	-7.14	1.37	1.52
1	A	107	VAL	CA-C	-7.12	1.34	1.52
1	C	769	LYS	CA-C	7.00	1.71	1.52
1	A	70	ASN	CB-CG	-6.96	1.35	1.51
1	A	122	VAL	CB-CG2	-6.91	1.38	1.52
1	A	111	LEU	N-CA	6.89	1.60	1.46
1	C	128	SER	CB-OG	6.86	1.51	1.42
1	A	819	TYR	CB-CG	6.82	1.61	1.51
1	A	109	ASN	CB-CG	6.80	1.66	1.51
1	A	64	VAL	C-N	6.78	1.49	1.34
1	A	685	ILE	C-O	-6.78	1.10	1.23
1	A	821	GLY	N-CA	6.72	1.56	1.46
1	A	94	PHE	CG-CD1	6.71	1.48	1.38
1	A	79	SER	C-O	6.69	1.36	1.23
1	A	822	LEU	CA-CB	6.68	1.69	1.53
1	C	157	TYR	CD1-CE1	6.66	1.49	1.39
1	C	106	GLN	C-O	6.60	1.35	1.23
1	C	130	GLU	CG-CD	6.59	1.61	1.51
1	C	758	TYR	CE2-CZ	6.59	1.47	1.38
1	C	131	LYS	CE-NZ	6.57	1.65	1.49
1	A	57	VAL	CA-CB	-6.55	1.41	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	130	GLU	CD-OE2	6.55	1.32	1.25
1	C	169	THR	C-O	6.49	1.35	1.23
1	C	770	LYS	CD-CE	6.43	1.67	1.51
1	C	316	PHE	CB-CG	6.40	1.62	1.51
1	C	160	ALA	CA-C	-6.38	1.36	1.52
1	A	88	VAL	CB-CG1	6.30	1.66	1.52
1	A	66	GLU	C-O	-6.28	1.11	1.23
1	B	105	VAL	CA-CB	6.27	1.68	1.54
1	A	682	PHE	CE2-CZ	6.18	1.49	1.37
1	C	46	SER	CB-OG	6.18	1.50	1.42
1	C	168	ARG	CZ-NH2	6.17	1.41	1.33
1	A	696	THR	CA-CB	6.11	1.69	1.53
1	C	167	SER	CB-OG	6.10	1.50	1.42
1	A	65	ILE	CA-CB	-6.10	1.40	1.54
1	A	105	VAL	CA-CB	-6.09	1.42	1.54
1	C	139	VAL	CB-CG1	-6.09	1.40	1.52
1	C	767	ARG	C-O	6.08	1.34	1.23
1	A	698	ALA	CA-CB	-6.08	1.39	1.52
1	C	182	TYR	CE1-CZ	6.08	1.46	1.38
1	C	770	LYS	CG-CD	6.06	1.73	1.52
1	A	801	PHE	CB-CG	6.05	1.61	1.51
1	A	116	PRO	CA-C	-6.04	1.40	1.52
1	A	129	VAL	N-CA	-6.04	1.34	1.46
1	A	820	ASN	C-N	6.00	1.43	1.33
1	A	88	VAL	CB-CG2	-5.99	1.40	1.52
1	C	269	GLU	CD-OE1	5.99	1.32	1.25
1	C	182	TYR	CD2-CE2	5.97	1.48	1.39
1	A	725	PRO	C-O	5.95	1.35	1.23
1	A	66	GLU	CA-CB	5.92	1.67	1.53
1	A	67	GLN	C-O	5.87	1.34	1.23
1	A	55	LYS	CB-CG	5.86	1.68	1.52
1	B	773	VAL	CB-CG2	-5.82	1.40	1.52
1	C	44	THR	C-O	5.79	1.34	1.23
1	C	127	VAL	CB-CG2	-5.79	1.40	1.52
1	A	103	ALA	CA-CB	5.79	1.64	1.52
1	A	61	VAL	CA-C	5.78	1.68	1.52
1	C	764	ASP	N-CA	5.78	1.57	1.46
1	C	174	ASP	N-CA	5.76	1.57	1.46
1	C	324	VAL	CB-CG2	-5.75	1.40	1.52
1	C	772	TYR	CG-CD2	-5.75	1.31	1.39
1	C	212	ALA	CA-CB	5.75	1.64	1.52
1	C	180	SER	CB-OG	5.73	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	45	ILE	C-O	5.70	1.34	1.23
1	B	459	PHE	CB-CG	5.69	1.61	1.51
1	C	817	GLU	CB-CG	5.66	1.62	1.52
1	A	61	VAL	CB-CG1	5.64	1.64	1.52
1	A	94	PHE	CE1-CZ	5.64	1.48	1.37
1	A	817	GLU	CD-OE2	5.63	1.31	1.25
1	A	48	SER	CA-CB	-5.61	1.44	1.52
1	C	772	TYR	CD2-CE2	-5.58	1.30	1.39
1	A	41	PRO	CG-CD	5.56	1.69	1.50
1	C	136	PHE	CD2-CE2	-5.53	1.28	1.39
1	A	682	PHE	CD1-CE1	5.51	1.50	1.39
1	A	62	THR	N-CA	5.50	1.57	1.46
1	A	44	THR	C-O	5.47	1.33	1.23
1	A	45	ILE	N-CA	-5.45	1.35	1.46
1	A	69	MET	CG-SD	5.45	1.95	1.81
1	B	110	LYS	N-CA	5.45	1.57	1.46
1	C	178	PHE	CD1-CE1	5.44	1.50	1.39
1	A	72	ILE	C-O	5.43	1.33	1.23
1	C	107	VAL	CA-CB	5.43	1.66	1.54
1	A	100	ALA	CA-CB	-5.40	1.41	1.52
1	C	157	TYR	CG-CD1	-5.40	1.32	1.39
1	C	57	VAL	CB-CG1	-5.39	1.41	1.52
1	C	617	PHE	CE2-CZ	5.38	1.47	1.37
1	A	811	TYR	CA-CB	-5.35	1.42	1.53
1	C	273	GLU	CB-CG	-5.35	1.42	1.52
1	C	162	MET	CA-CB	5.35	1.65	1.53
1	A	106	GLN	N-CA	5.33	1.57	1.46
1	C	172	VAL	CB-CG1	5.33	1.64	1.52
1	A	826	GLU	CG-CD	5.31	1.59	1.51
1	C	887	CYS	CB-SG	-5.30	1.73	1.81
1	C	102	ILE	CA-CB	-5.29	1.42	1.54
1	A	94	PHE	CE2-CZ	5.29	1.47	1.37
1	C	266	ALA	CA-CB	-5.29	1.41	1.52
1	A	81	ASN	C-O	5.27	1.33	1.23
1	A	113	LEU	CG-CD1	5.26	1.71	1.51
1	A	111	LEU	CG-CD1	5.26	1.71	1.51
1	C	78	MET	CB-CG	5.25	1.68	1.51
1	A	93	THR	C-O	5.22	1.33	1.23
1	A	94	PHE	CD1-CE1	5.21	1.49	1.39
1	C	157	TYR	CG-CD2	-5.20	1.32	1.39
1	C	238	THR	CB-CG2	5.16	1.69	1.52
1	C	839	GLU	CG-CD	5.15	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	314	GLU	N-CA	5.14	1.56	1.46
1	C	156	ASP	CB-CG	5.13	1.62	1.51
1	A	815	ARG	NE-CZ	5.13	1.39	1.33
1	A	727	PHE	CA-C	-5.12	1.39	1.52
1	A	687	GLN	CA-CB	5.11	1.65	1.53
1	C	74	ASN	C-O	-5.09	1.13	1.23
1	A	112	GLN	N-CA	-5.09	1.36	1.46
1	A	688	ALA	N-CA	5.09	1.56	1.46
1	A	67	GLN	N-CA	-5.08	1.36	1.46
1	C	88	VAL	CB-CG2	-5.08	1.42	1.52
1	B	130	GLU	CB-CG	-5.07	1.42	1.52
1	C	572	PHE	CE1-CZ	5.07	1.47	1.37
1	C	291	ILE	CA-CB	-5.07	1.43	1.54
1	A	104	GLN	N-CA	5.04	1.56	1.46
1	C	273	GLU	C-O	-5.04	1.13	1.23
1	A	45	ILE	C-N	5.03	1.45	1.34
1	A	63	GLN	CD-NE2	5.03	1.45	1.32
1	C	220	GLY	C-O	-5.02	1.15	1.23
1	A	691	GLY	C-O	5.02	1.31	1.23
1	C	683	GLU	CG-CD	-5.01	1.44	1.51
1	A	55	LYS	CG-CD	5.01	1.69	1.52
1	C	158	VAL	CB-CG1	-5.00	1.42	1.52

All (174) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	164	ASP	CB-CG-OD1	-17.91	102.18	118.30
1	C	767	ARG	CD-NE-CZ	-16.19	100.94	123.60
1	C	168	ARG	N-CA-C	10.95	140.57	111.00
1	A	818	ARG	NE-CZ-NH2	9.96	125.28	120.30
1	A	111	LEU	CB-CA-C	-9.93	91.33	110.20
1	A	717	ARG	NE-CZ-NH2	-9.81	115.39	120.30
1	C	126	GLY	N-CA-C	-9.77	88.68	113.10
1	C	131	LYS	CD-CE-NZ	-9.68	89.43	111.70
1	A	818	ARG	CA-CB-CG	-9.66	92.14	113.40
1	A	68	ASN	N-CA-CB	-9.62	93.28	110.60
1	A	62	THR	CA-CB-CG2	-9.41	99.22	112.40
1	C	815	ARG	NE-CZ-NH2	-9.40	115.60	120.30
1	A	828	LEU	CB-CG-CD1	-9.39	95.03	111.00
1	A	70	ASN	N-CA-C	-9.26	85.99	111.00
1	C	166	ILE	O-C-N	9.18	137.39	122.70
1	A	818	ARG	CD-NE-CZ	-9.04	110.95	123.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	164	ASP	CB-CG-OD2	8.98	126.38	118.30
1	C	157	TYR	CA-CB-CG	-8.97	96.36	113.40
1	A	812	GLY	N-CA-C	-8.93	90.78	113.10
1	B	30	LEU	CA-CB-CG	8.58	135.04	115.30
1	C	767	ARG	NE-CZ-NH2	-8.35	116.12	120.30
1	B	230	LEU	CA-CB-CG	8.31	134.41	115.30
1	A	717	ARG	NE-CZ-NH1	8.28	124.44	120.30
1	C	168	ARG	CB-CA-C	-8.16	94.09	110.40
1	A	721	LEU	CB-CG-CD2	-8.04	97.33	111.00
1	C	239	ARG	NE-CZ-NH2	-7.99	116.30	120.30
1	C	425	LEU	CA-CB-CG	7.67	132.95	115.30
1	A	118	LEU	CB-CG-CD1	7.61	123.94	111.00
1	A	686	ASP	CB-CG-OD2	7.52	125.07	118.30
1	A	818	ARG	N-CA-CB	7.51	124.11	110.60
1	A	578	LEU	CA-CB-CG	7.50	132.54	115.30
1	A	65	ILE	CB-CG1-CD1	-7.36	93.29	113.90
1	B	989	LEU	CA-CB-CG	7.32	132.14	115.30
1	B	705	GLU	N-CA-C	-7.31	91.25	111.00
1	A	817	GLU	OE1-CD-OE2	7.26	132.01	123.30
1	C	167	SER	C-N-CA	-7.20	103.69	121.70
1	B	468	ARG	NE-CZ-NH1	-7.17	116.71	120.30
1	A	723	ASP	CB-CG-OD2	-7.16	111.86	118.30
1	C	73	ASP	CB-CG-OD1	-7.07	111.93	118.30
1	C	185	ARG	NE-CZ-NH2	-7.06	116.77	120.30
1	C	166	ILE	CB-CG1-CD1	-6.99	94.32	113.90
1	A	696	THR	N-CA-C	-6.96	92.20	111.00
1	B	289	LEU	CA-CB-CG	6.96	131.31	115.30
1	C	620	ARG	NE-CZ-NH1	-6.93	116.83	120.30
1	A	108	GLN	CB-CA-C	-6.88	96.65	110.40
1	A	723	ASP	CB-CG-OD1	6.83	124.45	118.30
1	C	239	ARG	NE-CZ-NH1	6.83	123.71	120.30
1	C	166	ILE	N-CA-CB	6.79	126.42	110.80
1	C	172	VAL	CA-CB-CG1	6.78	121.07	110.90
1	A	544	LEU	CA-CB-CG	6.78	130.88	115.30
1	B	4	PHE	N-CA-C	-6.76	92.75	111.00
1	C	66	GLU	OE1-CD-OE2	-6.74	115.21	123.30
1	B	952	LEU	CA-CB-CG	6.73	130.79	115.30
1	A	761	ASP	CB-CG-OD2	-6.67	112.29	118.30
1	C	127	VAL	CG1-CB-CG2	-6.53	100.46	110.90
1	C	160	ALA	N-CA-C	6.51	128.59	111.00
1	A	750	LEU	CA-CB-CG	6.48	130.21	115.30
1	A	44	THR	CA-CB-CG2	6.46	121.45	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	818	ARG	NH1-CZ-NH2	-6.45	112.31	119.40
1	A	57	VAL	CB-CA-C	-6.44	99.17	111.40
1	C	686	ASP	CB-CG-OD2	6.43	124.09	118.30
1	C	818	ARG	NE-CZ-NH2	6.38	123.49	120.30
1	C	68	ASN	N-CA-C	6.36	128.17	111.00
1	B	73	ASP	CB-CG-OD2	6.35	124.02	118.30
1	C	163	LYS	CD-CE-NZ	-6.34	97.12	111.70
1	C	131	LYS	CG-CD-CE	-6.33	92.91	111.90
1	C	45	ILE	CB-CA-C	-6.33	98.94	111.60
1	C	168	ARG	NE-CZ-NH1	-6.32	117.14	120.30
1	A	118	LEU	CA-CB-CG	-6.31	100.78	115.30
1	A	61	VAL	N-CA-C	6.30	128.00	111.00
1	A	67	GLN	N-CA-C	6.29	127.98	111.00
1	A	729	ILE	CG1-CB-CG2	-6.27	97.61	111.40
1	C	162	MET	CB-CG-SD	-6.26	93.62	112.40
1	A	724	THR	OG1-CB-CG2	-6.25	95.62	110.00
1	A	66	GLU	N-CA-CB	6.25	121.85	110.60
1	A	164	ASP	CB-CG-OD1	-6.15	112.76	118.30
1	C	620	ARG	NE-CZ-NH2	6.13	123.36	120.30
1	A	823	PRO	CA-N-CD	6.13	120.28	111.70
1	A	181	GLN	N-CA-C	-6.12	94.48	111.00
1	A	55	LYS	CD-CE-NZ	6.11	125.76	111.70
1	A	586	ARG	NE-CZ-NH1	6.10	123.35	120.30
1	A	63	GLN	CA-CB-CG	6.09	126.80	113.40
1	B	220	GLY	N-CA-C	-6.00	98.10	113.10
1	A	115	MET	N-CA-CB	5.99	121.38	110.60
1	C	159	ALA	N-CA-CB	-5.99	101.72	110.10
1	C	166	ILE	CB-CA-C	5.99	123.57	111.60
1	A	821	GLY	N-CA-C	-5.92	98.31	113.10
1	A	276	ASP	CB-CG-OD2	-5.91	112.98	118.30
1	A	69	MET	CG-SD-CE	5.91	109.65	100.20
1	A	819	TYR	CB-CA-C	5.88	122.17	110.40
1	C	792	ARG	NE-CZ-NH1	-5.87	117.36	120.30
1	C	239	ARG	CG-CD-NE	-5.87	99.47	111.80
1	C	127	VAL	N-CA-C	-5.86	95.18	111.00
1	A	674	LEU	CA-CB-CG	5.85	128.76	115.30
1	C	159	ALA	C-N-CA	-5.85	107.08	121.70
1	C	732	ASP	CB-CG-OD2	-5.82	113.06	118.30
1	C	755	GLY	N-CA-C	-5.81	98.57	113.10
1	C	177	LEU	CB-CG-CD2	5.81	120.88	111.00
1	C	90	ILE	CB-CA-C	-5.80	100.00	111.60
1	C	157	TYR	CG-CD2-CE2	5.80	125.94	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	825	MET	CG-SD-CE	5.79	109.46	100.20
1	A	81	ASN	CB-CA-C	-5.78	98.84	110.40
1	A	118	LEU	CB-CG-CD2	-5.76	101.20	111.00
1	C	357	LEU	CA-CB-CG	5.76	128.55	115.30
1	C	87	THR	N-CA-C	5.76	126.55	111.00
1	C	164	ASP	N-CA-CB	-5.73	100.29	110.60
1	A	90	ILE	N-CA-C	-5.70	95.60	111.00
1	A	113	LEU	CB-CG-CD1	5.70	120.68	111.00
1	C	168	ARG	CG-CD-NE	-5.68	99.87	111.80
1	A	822	LEU	C-N-CD	-5.68	108.10	120.60
1	A	107	VAL	N-CA-C	-5.67	95.70	111.00
1	C	767	ARG	CG-CD-NE	-5.66	99.91	111.80
1	C	66	GLU	N-CA-CB	5.63	120.74	110.60
1	A	93	THR	O-C-N	5.60	131.66	122.70
1	A	62	THR	CA-C-N	-5.59	104.89	117.20
1	A	89	GLN	N-CA-C	-5.59	95.91	111.00
1	C	818	ARG	NE-CZ-NH1	-5.54	117.53	120.30
1	A	913	LEU	CA-CB-CG	5.52	128.00	115.30
1	C	156	ASP	CB-CG-OD1	5.51	123.25	118.30
1	C	681	ASP	CB-CG-OD2	5.51	123.26	118.30
1	C	972	LEU	CA-CB-CG	5.48	127.91	115.30
1	C	773	VAL	N-CA-C	-5.48	96.21	111.00
1	C	699	ARG	NE-CZ-NH1	-5.45	117.57	120.30
1	B	113	LEU	CB-CG-CD1	5.44	120.25	111.00
1	C	721	LEU	CA-CB-CG	5.44	127.81	115.30
1	A	68	ASN	N-CA-C	-5.44	96.32	111.00
1	C	166	ILE	CA-CB-CG1	-5.43	100.68	111.00
1	C	248	LYS	CD-CE-NZ	-5.43	99.22	111.70
1	A	109	ASN	CB-CA-C	-5.41	99.57	110.40
1	C	165	ALA	N-CA-CB	5.40	117.66	110.10
1	C	576	VAL	CB-CA-C	-5.40	101.14	111.40
1	A	818	ARG	CB-CG-CD	-5.39	97.58	111.60
1	B	350	LEU	CB-CG-CD1	-5.37	101.86	111.00
1	C	989	LEU	CA-CB-CG	5.36	127.63	115.30
1	A	788	ASP	CB-CG-OD1	-5.35	113.48	118.30
1	A	63	GLN	CA-C-N	-5.34	105.46	117.20
1	C	868	LEU	CA-CB-CG	5.34	127.57	115.30
1	A	64	VAL	C-N-CA	-5.33	108.36	121.70
1	B	650	ARG	NE-CZ-NH2	5.33	122.97	120.30
1	C	960	LEU	CA-CB-CG	5.32	127.54	115.30
1	C	822	LEU	CA-CB-CG	-5.30	103.11	115.30
1	C	772	TYR	CB-CG-CD1	5.29	124.17	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	66	GLU	CB-CA-C	-5.28	99.84	110.40
1	C	157	TYR	CA-C-N	-5.28	105.58	117.20
1	C	686	ASP	CB-CG-OD1	-5.28	113.55	118.30
1	A	867	ARG	NE-CZ-NH1	5.27	122.93	120.30
1	B	72	ILE	CG1-CB-CG2	-5.26	99.83	111.40
1	B	998	GLY	N-CA-C	-5.25	99.98	113.10
1	C	125	GLN	CB-CA-C	5.25	120.89	110.40
1	A	816	LEU	N-CA-C	-5.23	96.87	111.00
1	C	129	VAL	CA-CB-CG1	-5.22	103.07	110.90
1	B	980	LEU	CA-CB-CG	5.20	127.27	115.30
1	C	720	GLY	N-CA-C	5.18	126.06	113.10
1	C	952	LEU	CA-CB-CG	5.17	127.20	115.30
1	A	721	LEU	CA-CB-CG	5.17	127.20	115.30
1	A	71	GLY	N-CA-C	-5.17	100.18	113.10
1	A	222	THR	N-CA-C	-5.17	97.05	111.00
1	C	104	GLN	CA-CB-CG	-5.17	102.04	113.40
1	B	376	LEU	CB-CG-CD1	-5.15	102.24	111.00
1	A	820	ASN	CB-CA-C	-5.14	100.11	110.40
1	C	765	ARG	CB-CA-C	-5.13	100.13	110.40
1	C	165	ALA	CA-C-N	-5.10	105.98	117.20
1	A	102	ILE	O-C-N	-5.10	114.54	122.70
1	C	157	TYR	CG-CD1-CE1	-5.09	117.23	121.30
1	C	123	GLN	N-CA-C	-5.08	97.29	111.00
1	C	172	VAL	N-CA-C	-5.07	97.32	111.00
1	C	815	ARG	CG-CD-NE	-5.06	101.17	111.80
1	A	67	GLN	CA-C-N	5.05	128.32	117.20
1	C	88	VAL	CB-CA-C	-5.05	101.81	111.40
1	C	167	SER	N-CA-C	-5.04	97.39	111.00
1	A	478	MET	CG-SD-CE	5.04	108.26	100.20
1	C	772	TYR	OH-CZ-CE2	-5.03	106.53	120.10
1	A	107	VAL	CB-CA-C	-5.01	101.87	111.40
1	A	824	SER	N-CA-C	5.00	124.51	111.00

There are no chirality outliers.

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	62	THR	Mainchain
1	A	65	ILE	Mainchain
1	A	66	GLU	Peptide
1	A	818	ARG	Mainchain
1	B	102	ILE	Peptide

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Mol	Chain	Res	Type	Group
1	B	706	ALA	Peptide
1	C	104	GLN	Mainchain
1	C	160	ALA	Mainchain,Peptide
1	C	166	ILE	Peptide
1	C	168	ARG	Mainchain
1	C	45	ILE	Mainchain

## 5.2 Close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7774	0	7931	1178	0
1	B	7774	0	7931	1189	0
1	C	7774	0	7931	1304	0
2	A	22	0	0	30	0
2	B	8	0	0	6	0
2	C	26	0	0	35	0
All	All	23378	0	23793	3559	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 76.

All (3559) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:127:VAL:CB	1:C:127:VAL:CA	1.75	1.63
1:C:158:VAL:CB	1:C:158:VAL:CG2	1.77	1.60
1:A:69:MET:CG	1:A:69:MET:CB	1.74	1.60
1:C:58:GLN:CG	1:C:58:GLN:CB	1.74	1.55
1:A:68:ASN:CA	1:A:68:ASN:N	1.70	1.55
1:A:108:GLN:CB	1:A:108:GLN:CG	1.86	1.53
1:C:91:THR:CB	1:C:91:THR:CA	1.78	1.53
1:A:65:ILE:CA	1:A:65:ILE:C	1.79	1.51
1:C:169:THR:CB	1:C:169:THR:CA	1.85	1.50
1:C:45:ILE:CA	1:C:45:ILE:CB	1.88	1.49
1:C:161:ASN:N	1:C:161:ASN:CA	1.76	1.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:61:VAL:O	1:A:65:ILE:CG2	1.66	1.43
1:C:129:VAL:CB	1:C:129:VAL:CG2	1.97	1.43
1:A:68:ASN:CA	1:A:68:ASN:CB	1.94	1.42
1:C:167:SER:N	1:C:167:SER:CA	1.87	1.38
1:C:166:ILE:CA	1:C:166:ILE:CB	2.01	1.36
1:A:818:ARG:CD	1:A:818:ARG:CG	2.02	1.35
1:B:247:GLY:HA2	1:B:268:ILE:CD1	1.63	1.28
1:B:247:GLY:CA	1:B:268:ILE:HD13	1.67	1.23
1:A:67:GLN:CB	1:A:67:GLN:CG	2.16	1.22
1:A:61:VAL:O	1:A:65:ILE:HG22	1.09	1.22
1:C:115:MET:CE	1:C:118:LEU:HD22	1.70	1.22
1:C:159:ALA:HA	2:C:1078:HOH:O	1.05	1.21
1:C:950:LYS:NZ	1:C:1030:ARG:HD3	1.56	1.21
1:C:44:THR:HG22	1:C:91:THR:CB	1.70	1.20
1:A:66:GLU:HG2	2:A:1058:HOH:O	1.40	1.19
1:C:274:ASN:HB2	2:C:1060:HOH:O	1.43	1.19
1:A:686:ASP:HB3	2:A:1059:HOH:O	1.37	1.18
1:A:108:GLN:HG3	1:B:112:GLN:OE1	1.38	1.18
1:C:291:ILE:HD13	1:C:306:ILE:HD13	1.23	1.18
1:C:44:THR:CG2	1:C:91:THR:HB	1.74	1.17
1:B:456:MET:HG3	1:B:467:TYR:HB3	1.21	1.17
1:C:110:LYS:HA	1:C:113:LEU:HD12	1.28	1.16
1:C:82:SER:HB3	1:C:88:VAL:HA	1.26	1.15
1:C:58:GLN:HB3	2:C:1079:HOH:O	1.45	1.15
1:B:1:MET:HB2	1:B:2:PRO:HD2	1.25	1.15
1:A:344:LEU:HD23	1:A:402:ILE:HD13	1.15	1.15
1:B:544:LEU:HA	1:B:547:ILE:HD12	1.30	1.14
1:C:713:LEU:HG	1:C:832:ALA:O	1.47	1.14
1:C:166:ILE:HA	1:C:166:ILE:HD13	1.20	1.14
1:C:54:ALA:HB2	1:C:84:SER:HB2	1.30	1.14
1:B:1022:VAL:O	1:B:1024:VAL:O	1.66	1.14
1:A:690:LEU:HD11	1:A:854:GLY:HA3	1.27	1.13
1:A:531:VAL:HA	1:A:534:ILE:HD11	1.24	1.13
1:B:445:ILE:HG23	1:B:940:LYS:HG3	1.27	1.13
1:C:190:PRO:HD3	1:C:779:TYR:HD1	1.13	1.12
1:C:432:ARG:HG3	1:C:432:ARG:HH11	1.14	1.12
1:C:69:MET:CE	1:C:92:LEU:HD21	1.78	1.11
1:B:990:VAL:HG13	1:B:1005:THR:OG1	1.48	1.11
1:C:220:GLY:HA3	1:C:231:ASN:ND2	1.65	1.11
1:C:699:ARG:HG2	1:C:699:ARG:HH11	1.16	1.11
1:A:261:LEU:HD12	1:A:263:ARG:HH22	1.08	1.11
1:B:894:SER:HB3	1:B:897:ILE:HG12	1.33	1.10

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:358:PHE:HB3	1:C:977:MET:HE2	1.33	1.10
1:A:400:LEU:HD13	1:A:1003:VAL:HG13	1.27	1.10
1:A:686:ASP:O	1:A:688:ALA:N	1.84	1.09
1:C:770:LYS:HG3	2:C:1070:HOH:O	1.48	1.09
1:B:441:ALA:HB2	1:B:947:GLU:HG2	1.18	1.09
1:A:713:LEU:HD22	1:A:714:THR:H	1.15	1.09
1:C:699:ARG:CG	1:C:699:ARG:HH11	1.66	1.09
1:A:729:ILE:HG22	1:A:730:ASP:H	1.14	1.09
1:B:42:ALA:HB2	1:B:93:THR:HG22	1.34	1.08
1:C:847:LEU:HA	1:C:850:LYS:HD3	1.30	1.08
1:C:747:ASN:HA	2:C:1066:HOH:O	1.54	1.08
1:A:443:VAL:HG12	1:A:444:GLY:H	1.19	1.07
1:C:427:PRO:HA	1:C:498:LYS:HE3	1.22	1.07
1:A:945:ILE:HG12	1:A:971:ARG:HG2	1.32	1.07
1:A:66:GLU:HA	2:A:1056:HOH:O	1.54	1.06
1:C:1:MET:HB2	1:C:2:PRO:HD2	1.32	1.06
1:C:166:ILE:HA	1:C:166:ILE:CD1	1.85	1.06
1:C:69:MET:HE2	1:C:92:LEU:CD2	1.86	1.06
1:B:843:LEU:HD23	1:B:847:LEU:HD21	1.07	1.06
1:A:112:GLN:HA	1:A:112:GLN:HE21	1.15	1.05
1:A:713:LEU:HG	1:A:833:PRO:HD3	1.34	1.05
1:A:649:MET:HB3	1:A:653:ARG:HH21	1.22	1.05
1:C:167:SER:OG	1:C:168:ARG:N	1.85	1.05
1:C:163:LYS:O	1:C:166:ILE:N	1.89	1.04
1:A:54:ALA:HB1	1:A:816:LEU:HG	1.38	1.04
1:A:344:LEU:CD2	1:A:402:ILE:HD13	1.88	1.03
1:C:420:MET:SD	1:C:498:LYS:CE	2.46	1.03
1:C:115:MET:HE2	1:C:118:LEU:HD22	1.08	1.03
1:A:400:LEU:CD1	1:A:1003:VAL:HG13	1.87	1.03
1:C:162:MET:HB3	1:C:313:MET:HE1	1.41	1.03
1:B:904:VAL:HG13	1:B:907:LEU:HD12	1.35	1.03
1:C:1022:VAL:HA	1:C:1025:PHE:HD2	1.22	1.03
1:B:574:THR:HG23	1:B:665:ALA:HB2	1.39	1.03
1:C:713:LEU:HD11	1:C:834:GLY:HA3	1.35	1.03
1:B:431:THR:HG21	1:B:493:CYS:HB3	1.37	1.02
1:A:713:LEU:HB3	1:A:832:ALA:HA	1.37	1.02
1:A:959:GLY:HA3	1:A:962:GLU:HB2	1.41	1.02
1:C:712:MET:HB2	1:C:835:LYS:HG3	1.41	1.02
1:A:205:THR:O	1:A:205:THR:HG22	1.54	1.01
1:B:226:LYS:HA	1:B:226:LYS:HE3	1.40	1.01
1:C:415:ASN:ND2	1:C:434:SER:HB2	1.74	1.01
1:C:238:THR:HG22	1:C:239:ARG:O	1.59	1.01

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:876:LEU:HD13	1:B:932:LEU:HD11	1.43	1.00
1:C:901:VAL:O	1:C:904:VAL:HG23	1.59	1.00
1:A:713:LEU:CB	1:A:832:ALA:HA	1.91	1.00
1:A:713:LEU:O	1:A:714:THR:HG23	1.61	1.00
1:A:559:LEU:HD12	1:A:560:PRO:HD2	1.41	1.00
1:A:435:MET:HG2	1:A:490:PRO:HB3	1.44	0.99
1:C:115:MET:CE	1:C:118:LEU:CD2	2.40	0.99
1:A:536:ARG:HG2	1:A:537:SER:H	1.22	0.99
1:C:887:CYS:O	1:C:890:ALA:HB3	1.62	0.99
1:C:166:ILE:HA	1:C:166:ILE:CB	1.84	0.99
1:A:328:ASP:OD1	1:A:330:THR:HB	1.62	0.99
1:C:159:ALA:O	1:C:161:ASN:N	1.94	0.99
1:B:49:TYR:CD2	1:B:122:VAL:HA	1.98	0.99
1:B:144:ASN:HB2	1:B:320:GLY:O	1.62	0.99
1:C:143:ILE:HG23	1:C:284:GLN:NE2	1.77	0.98
1:A:819:TYR:H	1:A:824:SER:HB3	1.27	0.98
1:B:523:SER:HA	1:B:526:HIS:HD2	1.29	0.98
1:B:687:GLN:NE2	1:B:856:GLY:HA3	1.79	0.98
1:B:549:VAL:HG22	1:B:550:VAL:N	1.79	0.97
1:C:162:MET:HG2	1:C:313:MET:CE	1.94	0.97
1:A:818:ARG:HD3	1:A:821:GLY:O	1.64	0.97
1:C:729:ILE:HD11	1:C:786:ILE:HD13	1.46	0.97
1:A:687:GLN:NE2	1:A:856:GLY:HA3	1.78	0.97
1:A:251:LEU:HD11	1:A:262:LEU:HA	1.46	0.97
1:A:690:LEU:HD11	1:A:854:GLY:CA	1.96	0.96
1:C:588:GLN:HG2	1:C:613:ASN:HD22	1.25	0.96
1:C:111:LEU:HB3	2:C:1056:HOH:O	1.64	0.96
1:C:674:LEU:HD11	1:C:862:MET:HA	1.46	0.96
1:B:704:ALA:O	1:B:705:GLU:HG3	1.66	0.96
1:C:684:LEU:HG	1:C:684:LEU:O	1.64	0.96
1:B:361:ASN:O	1:B:365:THR:HB	1.64	0.96
1:C:164:ASP:O	1:C:167:SER:OG	1.84	0.95
1:A:105:VAL:O	1:A:109:ASN:N	1.99	0.95
1:C:372:VAL:HG13	1:C:373:PRO:HD3	1.48	0.95
1:B:843:LEU:CD2	1:B:847:LEU:HD21	1.96	0.95
1:B:742:SER:HB3	1:B:745:ASP:OD2	1.66	0.95
1:B:537:SER:HB2	1:B:540:ARG:HG2	1.47	0.95
1:B:714:THR:HG21	1:B:833:PRO:HD2	1.49	0.95
1:B:712:MET:HB3	1:B:713:LEU:HD12	1.46	0.95
1:A:790:TYR:HE1	1:A:800:PRO:HG3	1.30	0.95
1:A:389:SER:O	1:A:394:THR:HG21	1.67	0.95
1:A:108:GLN:HG3	1:B:112:GLN:CD	1.86	0.95

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:214:VAL:HG12	1:A:215:ALA:N	1.79	0.95
1:A:979:SER:OG	1:A:1015:THR:HG21	1.66	0.95
1:B:172:VAL:HG12	1:B:172:VAL:O	1.64	0.94
1:B:1022:VAL:HG23	1:B:1023:PRO:HD3	1.48	0.94
1:C:420:MET:SD	1:C:498:LYS:HE2	2.06	0.94
1:A:76:MET:HG2	1:A:95:GLU:OE2	1.66	0.94
1:C:162:MET:CB	1:C:313:MET:CE	2.45	0.94
1:C:162:MET:HB3	1:C:313:MET:CE	1.96	0.94
1:B:431:THR:HG21	1:B:493:CYS:CB	1.96	0.94
1:B:988:PRO:O	1:B:989:LEU:HB3	1.65	0.94
1:A:66:GLU:CG	2:A:1058:HOH:O	2.02	0.94
1:A:818:ARG:HD3	1:A:821:GLY:C	1.88	0.94
1:C:69:MET:HE2	1:C:92:LEU:HD21	0.94	0.94
1:B:930:GLY:O	1:B:934:THR:HG23	1.68	0.94
1:B:807:SER:O	1:B:808:ARG:HG3	1.68	0.94
1:A:742:SER:OG	1:A:745:ASP:HB2	1.68	0.94
1:C:535:LEU:HB2	2:C:1076:HOH:O	1.68	0.94
1:A:418:ARG:HD3	1:A:970:MET:HG3	1.46	0.94
1:C:190:PRO:HD3	1:C:779:TYR:CD1	2.02	0.93
1:C:58:GLN:HG3	1:C:62:THR:OG1	1.67	0.93
1:A:578:LEU:CD2	1:A:587:THR:HG23	1.98	0.93
1:B:987:MET:HE3	1:B:987:MET:HA	1.49	0.93
1:B:225:VAL:HG22	1:C:781:MET:CE	1.98	0.93
1:C:548:ILE:HD12	1:C:549:VAL:N	1.84	0.93
1:B:962:GLU:O	1:B:966:ASP:HB2	1.69	0.93
1:C:979:SER:O	1:C:983:ILE:HG13	1.68	0.93
1:A:560:PRO:HB2	1:A:922:THR:HG22	1.50	0.92
1:C:222:THR:HB	1:C:223:PRO:HD3	1.50	0.92
1:C:115:MET:HE2	1:C:118:LEU:CD2	1.96	0.92
1:C:162:MET:CG	1:C:313:MET:CE	2.48	0.92
1:C:3:ASN:HD21	1:C:432:ARG:HD3	1.35	0.92
1:A:965:LEU:O	1:A:969:ARG:HG3	1.69	0.92
1:A:919:ARG:HG3	1:A:920:GLY:H	1.33	0.92
1:A:57:VAL:HG12	1:A:58:GLN:N	1.84	0.92
1:B:406:VAL:O	1:B:408:ASP:O	1.88	0.92
1:C:950:LYS:H	1:C:953:MET:HE2	1.35	0.92
1:B:549:VAL:HG22	1:B:550:VAL:H	1.33	0.92
1:A:214:VAL:HG12	1:A:215:ALA:H	1.32	0.92
1:C:4:PHE:HB3	1:C:8:ARG:HH22	1.34	0.91
1:C:143:ILE:HG23	1:C:284:GLN:HE22	1.35	0.91
1:C:1022:VAL:HA	1:C:1025:PHE:CD2	2.05	0.91
1:A:919:ARG:CG	1:A:920:GLY:H	1.82	0.91

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:443:VAL:O	1:A:445:ILE:N	2.03	0.91
1:C:1025:PHE:O	1:C:1029:VAL:HG23	1.71	0.91
1:A:495:THR:O	1:A:496:MET:HB2	1.71	0.91
1:A:901:VAL:O	1:A:904:VAL:HG23	1.70	0.91
1:A:5:PHE:CD1	1:A:12:ALA:HB2	2.05	0.91
1:B:81:ASN:O	1:B:81:ASN:ND2	2.02	0.91
1:A:781:MET:HB3	1:C:228:GLN:OE1	1.70	0.91
1:A:585:GLU:OE2	1:C:227:GLY:HA2	1.71	0.91
1:A:128:SER:HB2	1:B:113:LEU:CD2	2.01	0.91
1:A:571:VAL:HG12	1:A:630:SER:HA	1.53	0.91
1:C:459:PHE:HD2	1:C:459:PHE:H	1.13	0.91
1:C:417:GLU:HA	1:C:417:GLU:OE2	1.70	0.91
1:C:431:THR:HG21	1:C:494:ALA:HB2	1.51	0.90
1:C:188:MET:CE	1:C:200:PRO:HB3	2.01	0.90
1:B:115:MET:HE1	1:B:127:VAL:HG21	1.53	0.90
1:A:968:VAL:CG2	1:A:1023:PRO:HB3	2.00	0.90
1:A:578:LEU:HD21	1:A:587:THR:HA	1.52	0.90
1:C:314:GLU:HB2	1:C:315:PRO:HD3	1.54	0.90
1:C:185:ARG:HG3	1:C:271:GLY:HA3	1.54	0.90
1:B:911:GLY:HA3	1:B:1013:THR:HG21	1.51	0.90
1:A:552:MET:HE1	1:A:906:PRO:HA	1.51	0.90
1:B:51:GLY:O	1:B:53:ASP:OD2	1.90	0.90
1:A:418:ARG:HG2	1:A:970:MET:HE3	1.53	0.90
1:C:44:THR:HG22	1:C:91:THR:HB	0.91	0.89
1:A:277:ILE:O	1:A:277:ILE:HG23	1.70	0.89
1:B:441:ALA:O	1:B:445:ILE:HG13	1.72	0.89
1:C:418:ARG:O	1:C:420:MET:N	2.04	0.89
1:C:214:VAL:HG12	1:C:215:ALA:N	1.88	0.89
1:B:49:TYR:CE1	1:B:122:VAL:HG13	2.06	0.89
1:A:139:VAL:CG1	1:A:327:TYR:HB3	2.02	0.89
1:C:950:LYS:HZ1	1:C:1030:ARG:HD3	1.30	0.89
1:B:1:MET:CB	1:B:2:PRO:HD2	2.01	0.89
1:A:968:VAL:HG21	1:A:1023:PRO:HB3	1.52	0.89
1:B:184:MET:HG3	1:B:184:MET:O	1.71	0.89
1:A:190:PRO:HG3	1:A:789:TRP:CE2	2.08	0.89
1:A:909:VAL:HG12	1:A:913:LEU:HD21	1.55	0.89
1:B:456:MET:HG3	1:B:467:TYR:CB	2.02	0.89
1:C:423:GLU:HB3	1:C:426:PRO:HG3	1.54	0.89
1:B:225:VAL:H	1:C:781:MET:HE2	1.34	0.88
1:B:242:SER:HB2	1:B:245:GLU:OE2	1.72	0.88
1:B:171:GLY:HA3	1:B:302:THR:CG2	2.03	0.88
1:A:818:ARG:HD2	2:A:1054:HOH:O	1.72	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:131:LYS:O	1:C:295:THR:HG22	1.72	0.88
1:A:1024:VAL:HG12	1:A:1025:PHE:H	1.37	0.88
1:C:291:ILE:HD13	1:C:306:ILE:CD1	2.03	0.88
1:B:247:GLY:HA2	1:B:268:ILE:HD13	0.88	0.88
1:C:1017:LEU:O	1:C:1017:LEU:HD23	1.73	0.88
1:B:47:ALA:HB3	1:B:88:VAL:HB	1.56	0.88
1:A:64:VAL:O	1:A:65:ILE:C	2.12	0.88
1:C:444:GLY:O	1:C:448:VAL:HG23	1.74	0.88
1:B:103:ALA:O	1:B:107:VAL:HG23	1.73	0.88
1:B:171:GLY:HA3	1:B:302:THR:HG22	1.56	0.87
1:B:14:VAL:HG11	1:C:890:ALA:HB2	1.54	0.87
1:C:950:LYS:NZ	1:C:1030:ARG:CD	2.36	0.87
1:A:355:MET:CE	1:A:410:ILE:HG12	2.03	0.87
1:A:909:VAL:HG12	1:A:913:LEU:CD2	2.03	0.87
1:A:105:VAL:O	1:A:108:GLN:HB3	1.75	0.87
1:A:228:GLN:HG2	1:B:781:MET:HG2	1.54	0.87
1:C:452:VAL:O	1:C:932:LEU:HD13	1.73	0.87
1:A:214:VAL:CG1	1:A:215:ALA:H	1.87	0.87
1:C:396:PHE:O	1:C:400:LEU:HD23	1.73	0.87
1:A:1009:GLY:O	1:A:1011:MET:N	2.08	0.87
1:C:141:GLY:HA3	1:C:324:VAL:HG22	1.56	0.86
1:C:162:MET:HG2	1:C:313:MET:HE2	1.57	0.86
1:C:291:ILE:CD1	1:C:306:ILE:HD13	2.04	0.86
1:B:3:ASN:H	1:B:6:ILE:HG12	1.39	0.86
1:A:528:THR:HG21	1:A:969:ARG:HE	1.38	0.86
1:B:590:VAL:O	1:B:594:VAL:HG23	1.75	0.86
1:A:819:TYR:N	1:A:824:SER:HB3	1.89	0.86
1:B:919:ARG:HG3	1:B:1005:THR:CG2	2.05	0.86
1:B:42:ALA:CB	1:B:93:THR:HG22	2.05	0.86
1:A:261:LEU:HD12	1:A:263:ARG:NH2	1.89	0.86
1:B:49:TYR:CD1	1:B:122:VAL:HG22	2.10	0.86
1:C:513:PHE:HA	1:C:516:PHE:HB3	1.57	0.86
1:A:32:VAL:HG22	1:A:390:ILE:HB	1.57	0.86
1:C:950:LYS:HZ3	1:C:1030:ARG:HD3	1.34	0.86
1:B:714:THR:HG22	1:B:831:ALA:HA	1.57	0.86
1:B:729:ILE:HG13	1:B:730:ASP:N	1.90	0.86
1:B:804:PHE:HD1	1:B:804:PHE:O	1.58	0.86
1:C:181:GLN:OE1	1:C:767:ARG:NE	2.08	0.86
1:B:226:LYS:CE	1:B:226:LYS:HA	2.06	0.86
1:C:743:ILE:HD12	1:C:743:ILE:H	1.38	0.86
1:B:517:ASN:HB3	1:B:521:GLU:OE1	1.75	0.86
1:B:225:VAL:HG22	1:C:781:MET:HE3	1.54	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:872:GLN:HB2	1:C:875:SER:HB3	1.55	0.86
1:C:686:ASP:OD1	1:C:690:LEU:HB2	1.76	0.85
1:A:756:GLY:HA2	1:A:774:MET:HB2	1.56	0.85
1:A:809:TRP:O	1:A:810:GLU:HB3	1.73	0.85
1:A:355:MET:HE1	1:A:410:ILE:HG12	1.58	0.85
1:A:729:ILE:HG22	1:A:730:ASP:N	1.88	0.85
1:B:690:LEU:HB2	1:B:694:LYS:HB2	1.57	0.85
1:C:314:GLU:HB2	1:C:315:PRO:CD	2.06	0.85
1:A:139:VAL:HG13	1:A:327:TYR:HB3	1.58	0.85
1:C:927:PHE:O	1:C:931:LEU:HB2	1.74	0.85
1:C:43:VAL:HA	1:C:130:GLU:O	1.74	0.85
1:A:911:GLY:HA3	1:A:1013:THR:HG21	1.56	0.85
1:A:513:PHE:HD1	1:A:517:ASN:ND2	1.73	0.85
1:C:432:ARG:HG3	1:C:432:ARG:NH1	1.79	0.85
1:A:113:LEU:HD21	1:C:128:SER:HA	1.56	0.85
1:C:62:THR:HG23	1:C:90:ILE:HD11	1.56	0.85
1:A:520:PHE:H	1:A:522:LYS:HE3	1.42	0.84
1:B:431:THR:CG2	1:B:493:CYS:HB3	2.06	0.84
1:B:552:MET:SD	1:B:909:VAL:HG23	2.17	0.84
1:A:632:LYS:O	1:A:637:ARG:HD3	1.76	0.84
1:B:605:ASN:HD21	1:B:642:ASN:ND2	1.75	0.84
1:A:10:ILE:HD11	1:B:895:TRP:HB2	1.58	0.84
1:A:103:ALA:O	1:A:107:VAL:HG23	1.76	0.84
1:A:687:GLN:HG2	1:C:316:PHE:CG	2.13	0.84
1:C:951:ASP:C	1:C:953:MET:H	1.79	0.84
1:B:150:THR:H	1:B:153:ASP:HB3	1.41	0.84
1:A:454:VAL:O	1:A:456:MET:O	1.95	0.84
1:C:162:MET:CG	1:C:313:MET:HE3	2.06	0.84
1:C:685:ILE:HD11	1:C:687:GLN:HA	1.59	0.84
1:B:659:LYS:HD3	1:B:660:ASP:N	1.92	0.84
1:B:190:PRO:HG2	1:B:779:TYR:CD1	2.12	0.84
1:B:49:TYR:CG	1:B:122:VAL:HA	2.12	0.84
1:A:186:ILE:HB	1:A:773:VAL:HG23	1.60	0.84
1:C:759:VAL:O	1:C:760:ASN:HB3	1.78	0.84
1:A:441:ALA:O	1:A:445:ILE:HG23	1.77	0.84
1:B:200:PRO:HD2	1:B:749:THR:HG22	1.58	0.84
1:A:1024:VAL:O	1:A:1026:PHE:N	2.11	0.84
1:C:72:ILE:HG22	1:C:94:PHE:CE2	2.13	0.84
1:B:26:ALA:O	1:B:30:LEU:HD22	1.78	0.84
1:A:1029:VAL:HG12	1:A:1030:ARG:H	1.43	0.83
1:A:154:ILE:HG22	1:A:287:SER:HB3	1.60	0.83
1:B:831:ALA:CB	1:B:840:ALA:HB2	2.08	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:406:VAL:HG13	1:A:407:ASP:N	1.92	0.83
1:A:1020:PHE:O	1:A:1024:VAL:HG23	1.77	0.83
1:B:555:LEU:HB2	1:B:913:LEU:HD23	1.59	0.83
1:A:46:SER:O	1:A:127:VAL:HG13	1.78	0.83
1:A:63:GLN:O	1:A:66:GLU:N	2.10	0.83
1:B:945:ILE:HD12	1:B:1026:PHE:HE2	1.42	0.83
1:C:247:GLY:HA2	1:C:268:ILE:HD13	1.59	0.83
1:C:713:LEU:HD11	1:C:834:GLY:CA	2.07	0.83
1:C:699:ARG:HD2	1:C:703:LEU:HD11	1.60	0.83
1:C:190:PRO:CD	1:C:779:TYR:HD1	1.89	0.83
1:C:4:PHE:CB	1:C:8:ARG:HH22	1.92	0.83
1:A:649:MET:HB3	1:A:653:ARG:NH2	1.93	0.83
1:B:158:VAL:HA	1:B:162:MET:HG2	1.58	0.83
1:B:187:TRP:CZ3	1:B:774:MET:HE3	2.13	0.83
1:C:420:MET:SD	1:C:498:LYS:NZ	2.52	0.83
1:C:568:ASP:OD1	1:C:634:TRP:NE1	2.10	0.83
1:B:528:THR:O	1:B:531:VAL:HG12	1.79	0.83
1:A:902:MET:O	1:A:905:VAL:HG23	1.79	0.83
1:B:894:SER:CB	1:B:897:ILE:HG12	2.07	0.83
1:C:164:ASP:O	1:C:168:ARG:HG2	1.78	0.83
1:C:418:ARG:C	1:C:420:MET:H	1.81	0.83
1:B:563:PHE:O	1:B:925:VAL:HG12	1.78	0.83
1:C:164:ASP:CG	2:C:1058:HOH:O	2.15	0.82
1:C:165:ALA:HA	1:C:168:ARG:HG3	1.59	0.82
1:C:950:LYS:HZ1	1:C:1030:ARG:CD	1.92	0.82
1:B:493:CYS:O	1:B:494:ALA:HB3	1.79	0.82
1:B:892:TYR:CB	1:B:897:ILE:HD11	2.09	0.82
1:B:713:LEU:H	1:B:713:LEU:HD12	1.44	0.82
1:B:613:ASN:HD22	1:B:614:GLY:N	1.75	0.82
1:A:106:GLN:O	1:A:107:VAL:O	1.97	0.82
1:B:104:GLN:HG3	1:B:105:VAL:N	1.93	0.82
1:A:405:LEU:HD22	1:A:406:VAL:N	1.93	0.82
1:C:699:ARG:HG2	1:C:699:ARG:NH1	1.93	0.82
1:B:987:MET:CE	1:B:987:MET:HA	2.09	0.82
1:C:54:ALA:H	1:C:57:VAL:HG23	1.44	0.82
1:C:562:SER:O	1:C:924:ASP:HA	1.79	0.82
1:C:686:ASP:HB3	1:C:823:PRO:HG2	1.61	0.82
1:B:45:ILE:HD12	1:B:90:ILE:HB	1.61	0.82
1:C:55:LYS:HE2	1:C:59:ASP:OD1	1.79	0.82
1:A:820:ASN:O	1:C:168:ARG:NH2	2.13	0.82
1:A:342:LYS:HG3	1:A:343:THR:H	1.43	0.82
1:C:962:GLU:O	1:C:965:LEU:HB3	1.79	0.82

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:144:ASN:HB3	2:C:1077:HOH:O	1.80	0.82
1:B:245:GLU:HA	1:B:248:LYS:HG2	1.62	0.82
1:A:115:MET:HE3	1:A:115:MET:HA	1.60	0.82
1:C:115:MET:HA	1:C:115:MET:CE	2.10	0.82
1:C:166:ILE:CD1	2:C:1075:HOH:O	2.27	0.82
1:A:443:VAL:HG12	1:A:444:GLY:N	1.95	0.82
1:A:69:MET:HG2	2:A:1056:HOH:O	1.77	0.82
1:A:498:LYS:O	1:A:498:LYS:NZ	2.11	0.82
1:B:1:MET:HB2	1:B:2:PRO:CD	2.09	0.82
1:A:545:TYR:HB2	1:A:1021:PHE:CE1	2.14	0.82
1:A:722:GLU:HG3	2:A:1060:HOH:O	1.78	0.82
1:A:713:LEU:CD2	1:A:714:THR:H	1.92	0.81
1:B:104:GLN:CG	1:B:105:VAL:N	2.42	0.81
1:A:276:ASP:HB3	1:C:222:THR:HG23	1.62	0.81
1:B:276:ASP:O	1:B:614:GLY:HA3	1.81	0.81
1:A:419:VAL:O	1:A:424:GLY:HA3	1.81	0.81
1:B:880:SER:O	1:B:884:VAL:HG23	1.81	0.81
1:B:213:GLN:HE21	1:B:239:ARG:HD2	1.45	0.81
1:A:45:ILE:HG22	1:A:45:ILE:O	1.81	0.81
1:A:223:PRO:HD3	1:B:275:TYR:CD2	2.16	0.81
1:C:164:ASP:O	1:C:168:ARG:CG	2.28	0.81
1:C:888:LEU:HB3	1:C:898:PRO:HB3	1.62	0.81
1:C:644:VAL:HG11	1:C:667:ASN:HD22	1.45	0.81
1:B:92:LEU:N	1:B:92:LEU:HD22	1.94	0.81
1:B:674:LEU:HD23	1:B:675:GLY:N	1.94	0.81
1:B:859:TRP:HB3	1:B:863:SER:HB2	1.61	0.81
1:C:38:ILE:HG21	1:C:466:ILE:HD11	1.61	0.81
1:A:536:ARG:HG2	1:A:537:SER:N	1.95	0.81
1:A:214:VAL:CG1	1:A:215:ALA:N	2.44	0.81
1:B:405:LEU:HD12	1:B:406:VAL:N	1.96	0.81
1:A:314:GLU:HA	2:A:1061:HOH:O	1.79	0.81
1:B:399:VAL:O	1:B:402:ILE:HG22	1.81	0.81
1:A:713:LEU:HB3	1:A:832:ALA:CA	2.11	0.81
1:A:205:THR:O	1:A:205:THR:CG2	2.27	0.81
1:A:413:VAL:HG23	1:A:493:CYS:HB2	1.63	0.81
1:B:70:ASN:ND2	1:B:70:ASN:O	2.14	0.81
1:B:314:GLU:H	1:B:315:PRO:HD2	1.44	0.81
1:B:623:ASN:C	1:B:623:ASN:HD22	1.82	0.81
1:A:467:TYR:CE1	1:A:925:VAL:HG22	2.16	0.80
1:A:253:VAL:HG23	1:A:258:SER:O	1.80	0.80
1:B:350:LEU:HB3	1:B:984:LEU:HD12	1.61	0.80
1:C:713:LEU:HD21	1:C:835:LYS:H	1.46	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:350:LEU:HD13	1:C:984:LEU:CD2	2.11	0.80
1:B:456:MET:CG	1:B:467:TYR:HB3	2.09	0.80
1:B:416:VAL:HG11	1:B:431:THR:HG22	1.64	0.80
1:B:100:ALA:O	1:B:103:ALA:HB3	1.81	0.80
1:A:634:TRP:CE3	1:A:995:ALA:HB1	2.16	0.80
1:A:605:ASN:OD1	1:A:637:ARG:HG2	1.82	0.80
1:C:702:LEU:HB2	1:C:851:LEU:HD21	1.62	0.80
1:C:184:MET:HE3	1:C:184:MET:HA	1.62	0.80
1:B:879:ILE:O	1:B:883:VAL:HG23	1.82	0.80
1:A:951:ASP:O	1:A:955:LYS:HB2	1.81	0.80
1:A:801:PHE:CD2	1:A:805:SER:OG	2.34	0.80
1:B:157:TYR:HA	1:B:161:ASN:ND2	1.97	0.80
1:B:849:SER:O	1:B:850:LYS:HD3	1.81	0.80
1:B:646:ALA:O	1:B:648:THR:N	2.13	0.80
1:A:298:ASN:HD22	1:A:298:ASN:C	1.84	0.80
1:B:11:PHE:O	1:B:14:VAL:HB	1.81	0.80
1:B:945:ILE:HD11	1:B:1022:VAL:HB	1.64	0.80
1:A:949:ALA:HB1	1:A:1026:PHE:CE2	2.17	0.80
1:C:346:GLU:OE1	1:C:988:PRO:HG3	1.82	0.80
1:C:188:MET:HE1	1:C:200:PRO:HB3	1.62	0.80
1:A:372:VAL:HB	1:A:373:PRO:HD3	1.62	0.80
1:C:190:PRO:CD	1:C:779:TYR:CD1	2.64	0.80
1:A:406:VAL:HG13	1:A:407:ASP:H	1.45	0.79
1:C:536:ARG:HH11	1:C:961:ILE:HD11	1.47	0.79
1:B:568:ASP:OD1	1:B:644:VAL:HG22	1.82	0.79
1:A:66:GLU:OE2	2:A:1058:HOH:O	1.99	0.79
1:C:169:THR:HB	1:C:172:VAL:HG21	1.63	0.79
1:B:912:ALA:HB2	1:B:1010:GLY:HA3	1.65	0.79
1:B:830:GLN:H	1:B:830:GLN:HE21	1.30	0.79
1:B:230:LEU:HD21	1:C:809:TRP:CH2	2.16	0.79
1:A:105:VAL:O	1:A:108:GLN:CB	2.30	0.79
1:A:685:ILE:HG22	1:A:687:GLN:H	1.48	0.79
1:C:162:MET:HG2	1:C:313:MET:HE3	1.63	0.79
1:A:986:VAL:C	1:A:988:PRO:HD2	2.02	0.79
1:C:350:LEU:HD12	1:C:985:GLY:HA2	1.64	0.79
1:A:112:GLN:HE21	1:A:112:GLN:CA	1.95	0.79
1:A:61:VAL:O	1:A:65:ILE:HG23	1.77	0.79
1:B:2:PRO:HD3	1:B:486:LEU:HD12	1.65	0.79
1:B:972:LEU:HD13	1:B:976:LEU:HD23	1.64	0.79
1:A:590:VAL:O	1:A:594:VAL:HG23	1.83	0.79
1:C:423:GLU:HB3	1:C:426:PRO:CG	2.12	0.79
1:C:728:LYS:HG3	1:C:729:ILE:N	1.97	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:427:PRO:CA	1:C:498:LYS:HE3	2.09	0.79
1:C:183:ALA:O	1:C:185:ARG:HG2	1.82	0.79
1:A:568:ASP:OD2	1:A:637:ARG:NH1	2.16	0.79
1:C:158:VAL:O	1:C:162:MET:N	2.15	0.79
1:B:358:PHE:HZ	1:B:976:LEU:HD12	1.47	0.79
1:C:778:LYS:HD2	1:C:779:TYR:HE2	1.48	0.79
1:A:255:GLN:CD	1:A:255:GLN:H	1.85	0.79
1:B:452:VAL:O	1:B:453:PHE:HB2	1.82	0.78
1:C:685:ILE:HG12	1:C:687:GLN:OE1	1.82	0.78
1:A:584:GLN:H	1:A:622:GLN:HB3	1.48	0.78
1:C:911:GLY:HA3	1:C:1013:THR:HG21	1.63	0.78
1:A:60:THR:HG21	1:A:119:PRO:HG3	1.65	0.78
1:C:61:VAL:HG12	2:C:1064:HOH:O	1.81	0.78
1:B:531:VAL:HG13	1:B:965:LEU:HD21	1.64	0.78
1:A:781:MET:HE1	1:C:225:VAL:H	1.49	0.78
1:C:252:LYS:O	1:C:260:VAL:HG12	1.82	0.78
1:C:352:PHE:HA	1:C:369:THR:HG21	1.65	0.78
1:B:538:THR:N	1:B:540:ARG:HH21	1.81	0.78
1:B:729:ILE:HG13	1:B:730:ASP:H	1.46	0.78
1:A:61:VAL:HG13	1:A:118:LEU:HD22	1.64	0.78
1:B:525:HIS:HA	1:B:528:THR:HG22	1.64	0.78
1:A:298:ASN:ND2	1:A:300:LEU:H	1.80	0.78
1:A:210:GLN:HG3	1:A:249:ILE:HG23	1.63	0.78
1:A:400:LEU:HD13	1:A:1003:VAL:CG1	2.11	0.78
1:B:587:THR:O	1:B:591:LEU:HB2	1.83	0.78
1:A:886:LEU:HD21	1:C:17:ILE:HG21	1.63	0.78
1:A:578:LEU:HD23	1:A:587:THR:HG23	1.66	0.78
1:C:463:THR:O	1:C:465:ALA:N	2.17	0.78
1:B:157:TYR:HA	1:B:161:ASN:HD22	1.49	0.78
1:A:836:SER:OG	1:A:839:GLU:HG2	1.84	0.78
1:A:166:ILE:HD13	1:A:166:ILE:N	1.96	0.78
1:C:410:ILE:HG22	1:C:411:VAL:N	1.98	0.78
1:A:520:PHE:N	1:A:522:LYS:HE3	1.99	0.78
1:A:783:PRO:HD3	1:C:219:LEU:HD13	1.65	0.78
1:B:602:GLU:OE2	1:B:650:ARG:HD2	1.82	0.78
1:A:467:TYR:HE1	1:A:925:VAL:HG22	1.46	0.78
1:A:314:GLU:N	1:A:315:PRO:CD	2.47	0.78
1:A:719:ASN:HD22	1:A:719:ASN:C	1.85	0.78
1:B:562:SER:O	1:B:924:ASP:HA	1.84	0.78
1:C:115:MET:N	1:C:116:PRO:CD	2.47	0.77
1:B:448:VAL:O	1:B:452:VAL:HG22	1.84	0.77
1:C:143:ILE:HD11	1:C:286:ALA:HB2	1.67	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:578:LEU:HB3	1:C:579:PRO:HD2	1.65	0.77
1:B:6:ILE:HD12	1:B:490:PRO:HB2	1.64	0.77
1:A:909:VAL:O	1:A:912:ALA:HB3	1.84	0.77
1:B:699:ARG:HG2	1:B:700:ASN:H	1.49	0.77
1:A:168:ARG:HG3	1:A:168:ARG:O	1.84	0.77
1:A:843:LEU:HA	1:A:846:GLN:NE2	1.98	0.77
1:A:54:ALA:CB	1:A:816:LEU:HG	2.15	0.77
1:A:108:GLN:CG	1:B:112:GLN:OE1	2.28	0.77
1:B:346:GLU:OE1	1:B:988:PRO:HB3	1.84	0.77
1:A:495:THR:O	1:A:495:THR:HG22	1.83	0.77
1:B:983:ILE:HD13	1:B:1012:VAL:HG12	1.66	0.77
1:C:754:TRP:CZ2	1:C:786:ILE:HG13	2.20	0.77
1:B:345:VAL:HA	1:B:348:ILE:HD12	1.67	0.77
1:C:220:GLY:CA	1:C:231:ASN:ND2	2.46	0.77
1:A:1018:ALA:O	1:A:1022:VAL:HG13	1.85	0.77
1:A:522:LYS:N	1:A:522:LYS:HE2	2.00	0.77
1:B:674:LEU:HD13	1:B:860:THR:HG21	1.66	0.77
1:A:57:VAL:HG13	1:A:57:VAL:O	1.81	0.77
1:A:687:GLN:HE21	1:A:856:GLY:HA3	1.47	0.77
1:A:596:HIS:O	1:A:598:TYR:N	2.18	0.77
1:C:127:VAL:CG2	1:C:127:VAL:CA	2.60	0.77
1:B:714:THR:HG21	1:B:833:PRO:CD	2.14	0.77
1:A:514:GLY:O	1:A:518:ARG:HB2	1.84	0.77
1:C:62:THR:CA	2:C:1064:HOH:O	2.33	0.76
1:B:945:ILE:CD1	1:B:1026:PHE:HE2	1.98	0.76
1:A:728:LYS:NZ	1:C:235:ILE:HG22	2.00	0.76
1:C:717:ARG:HH12	1:C:829:GLY:HA2	1.50	0.76
1:C:162:MET:CB	1:C:313:MET:HE1	2.11	0.76
1:B:411:VAL:O	1:B:438:ILE:HG12	1.86	0.76
1:A:543:VAL:O	1:A:544:LEU:HB3	1.86	0.76
1:C:975:ILE:HG21	1:C:1019:ILE:HD13	1.65	0.76
1:A:885:PHE:HD2	1:A:886:LEU:HD12	1.50	0.76
1:B:707:ALA:O	1:B:708:LYS:HB3	1.83	0.76
1:C:72:ILE:HG22	1:C:94:PHE:HE2	1.49	0.76
1:A:48:SER:HA	1:A:86:GLY:O	1.85	0.76
1:C:82:SER:HB3	1:C:88:VAL:CA	2.13	0.76
1:C:972:LEU:H	1:C:974:PRO:HD2	1.49	0.76
1:B:517:ASN:O	1:B:521:GLU:HG3	1.85	0.76
1:B:520:PHE:HA	1:B:523:SER:OG	1.85	0.76
1:A:539:GLY:HA2	1:A:542:LEU:HB2	1.67	0.76
1:C:190:PRO:O	1:C:191:ASN:C	2.23	0.76
1:B:418:ARG:HG3	1:B:970:MET:CE	2.16	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:407:ASP:OD2	1:C:940:LYS:NZ	2.17	0.76
1:A:522:LYS:H	1:A:522:LYS:HE2	1.50	0.76
1:C:259:ARG:HB2	1:C:259:ARG:HH11	1.46	0.76
1:C:391:ASN:H	1:C:394:THR:CG2	1.97	0.76
1:C:527:TYR:OH	1:C:968:VAL:HG12	1.86	0.76
1:B:420:MET:HE2	1:B:425:LEU:HD23	1.68	0.76
1:B:136:PHE:HE1	1:B:617:PHE:CZ	2.04	0.76
1:A:818:ARG:HA	1:A:824:SER:H	1.49	0.76
1:B:894:SER:HB3	1:B:897:ILE:CG1	2.15	0.76
1:B:690:LEU:HB2	1:B:694:LYS:CB	2.14	0.76
1:A:60:THR:HG22	1:A:119:PRO:HD3	1.68	0.76
1:C:713:LEU:H	1:C:713:LEU:HD22	1.51	0.76
1:A:472:ILE:N	1:A:472:ILE:HD12	1.98	0.76
1:B:221:GLY:HA3	1:C:780:ARG:NH1	2.02	0.75
1:B:234:ILE:O	1:B:234:ILE:HG22	1.87	0.75
1:B:269:GLU:O	1:B:270:LEU:HB2	1.86	0.75
1:B:418:ARG:HG3	1:B:970:MET:HE1	1.66	0.75
1:A:472:ILE:H	1:A:472:ILE:HD12	1.48	0.75
1:A:1:MET:N	1:A:2:PRO:HD2	2.01	0.75
1:C:156:ASP:O	1:C:157:TYR:C	2.22	0.75
1:A:282:ASN:HD21	1:A:609:VAL:H	1.31	0.75
1:A:515:TRP:HA	1:A:519:MET:SD	2.26	0.75
1:A:227:GLY:HA2	1:B:585:GLU:OE1	1.87	0.75
1:B:328:ASP:HB2	2:B:1059:HOH:O	1.86	0.75
1:A:890:ALA:HB1	1:C:11:PHE:CD1	2.22	0.75
1:B:804:PHE:CD1	1:B:804:PHE:O	2.39	0.75
1:B:610:PHE:O	1:B:627:ALA:HB1	1.86	0.75
1:A:818:ARG:HE	1:A:818:ARG:CB	1.98	0.75
1:A:713:LEU:HD22	1:A:714:THR:N	1.97	0.75
1:A:790:TYR:CE1	1:A:800:PRO:HG3	2.20	0.75
1:C:459:PHE:CD2	1:C:459:PHE:N	2.48	0.75
1:A:61:VAL:HG13	1:A:118:LEU:CD2	2.16	0.75
1:B:1022:VAL:HG23	1:B:1023:PRO:CD	2.16	0.75
1:B:549:VAL:CG2	1:B:550:VAL:N	2.49	0.75
1:A:534:ILE:HB	1:A:540:ARG:NH1	2.01	0.75
1:A:661:ALA:O	1:A:663:VAL:HG23	1.87	0.75
1:A:112:GLN:HA	1:A:112:GLN:NE2	1.97	0.74
1:B:560:PRO:HB2	1:B:836:SER:HB3	1.69	0.74
1:A:73:ASP:HB3	1:A:106:GLN:HE22	1.51	0.74
1:C:489:THR:O	1:C:493:CYS:HB3	1.88	0.74
1:A:781:MET:HE1	1:C:225:VAL:N	2.02	0.74
1:A:1023:PRO:O	1:A:1027:VAL:HG23	1.87	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:975:ILE:HG22	1:C:976:LEU:N	2.00	0.74
1:A:599:LEU:O	1:A:600:THR:HB	1.86	0.74
1:C:32:VAL:HG12	1:C:32:VAL:O	1.87	0.74
1:C:457:ALA:HB1	1:C:468:ARG:HA	1.67	0.74
1:C:73:ASP:O	1:C:74:ASN:O	2.06	0.74
1:C:643:LYS:O	1:C:647:ILE:HG13	1.87	0.74
1:C:424:GLY:HA2	2:C:1073:HOH:O	1.86	0.74
1:C:577:GLN:HB3	1:C:624:THR:HG22	1.69	0.74
1:C:158:VAL:CG1	1:C:158:VAL:CG2	2.62	0.74
1:B:946:VAL:HG22	1:B:1026:PHE:CZ	2.23	0.74
1:A:559:LEU:HD12	1:A:560:PRO:CD	2.15	0.74
1:A:578:LEU:HD21	1:A:587:THR:HG23	1.69	0.74
1:C:655:PHE:C	1:C:657:GLN:H	1.91	0.74
1:C:166:ILE:HG12	2:C:1075:HOH:O	1.88	0.74
1:B:262:LEU:HB3	1:B:268:ILE:HD11	1.69	0.74
1:C:588:GLN:HG2	1:C:613:ASN:ND2	2.03	0.74
1:C:513:PHE:HA	1:C:516:PHE:CB	2.18	0.74
1:C:643:LYS:HG2	1:C:645:GLU:H	1.52	0.74
1:C:655:PHE:HA	1:C:659:LYS:HD3	1.70	0.74
1:A:68:ASN:C	1:A:68:ASN:N	2.41	0.74
1:B:973:ARG:HG2	1:B:974:PRO:HD3	1.70	0.74
1:A:44:THR:O	1:A:45:ILE:CG1	2.36	0.74
1:A:44:THR:O	1:A:45:ILE:HG13	1.88	0.74
1:A:701:GLN:OE1	1:A:852:PRO:HD3	1.87	0.74
1:B:686:ASP:HB3	1:B:823:PRO:O	1.87	0.74
1:A:568:ASP:HB3	1:A:634:TRP:HZ3	1.53	0.74
1:C:592:ASN:HD22	1:C:592:ASN:N	1.84	0.74
1:A:919:ARG:HG3	1:A:920:GLY:N	2.03	0.73
1:C:184:MET:HG2	1:C:246:PHE:CD1	2.23	0.73
1:C:69:MET:CE	1:C:92:LEU:CD2	2.54	0.73
1:C:950:LYS:O	1:C:954:ASP:HB2	1.88	0.73
1:B:704:ALA:O	1:B:705:GLU:CG	2.35	0.73
1:A:749:THR:O	1:A:753:ALA:HB2	1.88	0.73
1:A:578:LEU:O	1:A:623:ASN:ND2	2.20	0.73
1:C:879:ILE:O	1:C:883:VAL:HG23	1.88	0.73
1:A:69:MET:C	1:A:70:ASN:HD22	1.91	0.73
1:C:62:THR:HA	2:C:1064:HOH:O	1.86	0.73
1:B:945:ILE:CD1	1:B:1026:PHE:CE2	2.72	0.73
1:A:993:THR:HG21	1:A:1000:GLN:OE1	1.87	0.73
1:A:736:ALA:O	1:A:741:VAL:HG13	1.88	0.73
1:C:87:THR:CG2	1:C:88:VAL:N	2.51	0.73
1:A:832:ALA:HB3	1:A:835:LYS:HB2	1.70	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:144:ASN:ND2	1:C:149:MET:H	1.86	0.73
1:B:291:ILE:HG21	1:B:306:ILE:HD11	1.69	0.73
1:A:947:GLU:O	1:A:951:ASP:HB2	1.88	0.73
1:A:426:PRO:HG2	1:A:429:GLU:OE2	1.88	0.73
1:A:773:VAL:HG13	1:A:773:VAL:O	1.87	0.73
1:B:350:LEU:HB3	1:B:984:LEU:CD1	2.17	0.73
1:B:790:TYR:HE1	1:B:800:PRO:HB3	1.53	0.73
1:A:190:PRO:HG3	1:A:789:TRP:CD2	2.23	0.73
1:C:922:THR:HG22	1:C:923:ASN:H	1.53	0.73
1:B:423:GLU:OE1	1:B:427:PRO:CD	2.37	0.73
1:B:1018:ALA:O	1:B:1022:VAL:HG22	1.88	0.73
1:C:1:MET:HB2	1:C:2:PRO:CD	2.16	0.73
1:C:726:GLN:CD	1:C:812:GLY:HA3	2.08	0.73
1:C:45:ILE:C	1:C:45:ILE:CB	2.56	0.73
1:A:428:LYS:HG3	1:A:429:GLU:H	1.52	0.73
1:A:540:ARG:HG3	1:A:541:TYR:H	1.53	0.73
1:A:919:ARG:CG	1:A:920:GLY:N	2.52	0.73
1:B:759:VAL:HG12	1:B:760:ASN:HB2	1.70	0.73
1:B:439:GLN:HA	1:B:442:LEU:HD12	1.71	0.73
1:A:461:GLY:O	1:A:463:THR:O	2.06	0.73
1:B:7:ASP:O	1:B:8:ARG:HB2	1.89	0.73
1:C:144:ASN:HD21	1:C:149:MET:H	1.33	0.73
1:C:365:THR:O	1:C:368:PRO:HD2	1.88	0.73
1:A:102:ILE:HA	1:A:105:VAL:CG2	2.18	0.72
1:A:115:MET:C	1:A:117:LEU:H	1.92	0.72
1:B:42:ALA:HB2	1:B:93:THR:CG2	2.16	0.72
1:A:801:PHE:HD2	1:A:805:SER:OG	1.70	0.72
1:A:822:LEU:HB3	1:A:823:PRO:HD2	1.69	0.72
1:B:412:VAL:HG13	1:B:435:MET:HE1	1.71	0.72
1:A:90:ILE:O	1:A:90:ILE:HG22	1.85	0.72
1:B:136:PHE:HD2	1:B:290:GLY:O	1.72	0.72
1:B:845:GLU:CG	1:B:857:TYR:OH	2.37	0.72
1:B:65:ILE:O	1:B:69:MET:HG2	1.89	0.72
1:B:750:LEU:C	1:B:750:LEU:HD13	2.10	0.72
1:C:108:GLN:C	2:C:1056:HOH:O	2.28	0.72
1:A:10:ILE:HG12	1:B:893:GLU:O	1.90	0.72
1:B:740:GLY:O	1:B:794:ALA:N	2.22	0.72
1:C:450:SER:O	1:C:451:ALA:CB	2.35	0.72
1:C:84:SER:C	1:C:86:GLY:H	1.92	0.72
1:C:729:ILE:CD1	1:C:786:ILE:HD13	2.18	0.72
1:B:713:LEU:CD1	1:B:843:LEU:HD13	2.19	0.72
1:B:642:ASN:H	1:B:650:ARG:HH12	1.38	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:418:ARG:HG2	1:A:970:MET:CE	2.19	0.72
1:B:412:VAL:HG13	1:B:435:MET:CE	2.20	0.72
1:B:489:THR:O	1:B:492:LEU:HB2	1.89	0.72
1:C:592:ASN:H	1:C:592:ASN:ND2	1.87	0.72
1:C:519:MET:HG3	1:C:520:PHE:N	2.03	0.72
1:C:946:VAL:HG12	1:C:946:VAL:O	1.90	0.72
1:C:104:GLN:HG3	1:C:131:LYS:HG2	1.72	0.72
1:B:944:LEU:O	1:B:971:ARG:HD2	1.89	0.72
1:B:48:SER:OG	1:B:48:SER:O	2.00	0.72
1:B:172:VAL:O	1:B:173:GLY:O	2.06	0.72
1:A:225:VAL:HG22	1:B:778:LYS:NZ	2.04	0.72
1:B:30:LEU:HD23	1:B:390:ILE:HD11	1.72	0.72
1:A:415:ASN:HB3	1:A:434:SER:OG	1.90	0.72
1:A:67:GLN:C	1:A:68:ASN:CA	2.57	0.72
1:A:69:MET:O	1:A:70:ASN:ND2	2.19	0.72
2:B:1060:HOH:O	1:C:110:LYS:HD3	1.90	0.72
1:B:970:MET:HE2	1:B:970:MET:HA	1.72	0.72
1:C:536:ARG:NH1	1:C:961:ILE:HD11	2.05	0.72
1:A:733:GLN:OE1	1:A:743:ILE:HG12	1.90	0.72
1:A:311:ALA:O	1:A:312:LYS:HB2	1.89	0.72
1:A:314:GLU:N	1:A:315:PRO:HD3	2.04	0.71
1:B:136:PHE:HE1	1:B:617:PHE:HZ	1.38	0.71
1:B:235:ILE:HD13	1:B:235:ILE:H	1.55	0.71
1:A:447:MET:HB3	1:A:887:CYS:SG	2.30	0.71
1:B:314:GLU:H	1:B:315:PRO:CD	2.03	0.71
1:A:782:LEU:O	1:A:784:ASP:O	2.07	0.71
1:B:92:LEU:N	1:B:92:LEU:CD2	2.53	0.71
1:A:359:LEU:HD12	1:A:417:GLU:HG2	1.72	0.71
1:C:108:GLN:HA	2:C:1056:HOH:O	1.89	0.71
1:A:406:VAL:CG1	1:A:407:ASP:H	2.02	0.71
1:B:892:TYR:HB3	1:B:897:ILE:HD11	1.71	0.71
1:A:729:ILE:CG2	1:A:730:ASP:H	1.99	0.71
1:B:714:THR:HG22	1:B:831:ALA:CA	2.20	0.71
1:A:436:GLY:HA2	1:A:439:GLN:HB2	1.73	0.71
1:C:327:TYR:HB3	1:C:628:PHE:HB3	1.70	0.71
1:C:764:ASP:OD2	1:C:765:ARG:HD2	1.90	0.71
1:C:695:LEU:HD22	1:C:825:MET:HG3	1.73	0.71
1:C:713:LEU:CD1	1:C:834:GLY:HA3	2.16	0.71
1:A:904:VAL:HG21	1:A:942:ALA:HB2	1.72	0.71
1:A:896:SER:O	1:A:899:PHE:HB2	1.90	0.71
1:C:542:LEU:HD23	1:C:542:LEU:O	1.89	0.71
1:B:115:MET:O	1:B:123:GLN:NE2	2.23	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:11:PHE:CD1	1:B:890:ALA:HB1	2.26	0.71
1:A:644:VAL:O	1:A:648:THR:HG23	1.90	0.71
1:C:105:VAL:O	1:C:108:GLN:N	2.23	0.71
1:B:116:PRO:HA	1:B:123:GLN:NE2	2.06	0.71
1:C:568:ASP:OD2	1:C:644:VAL:HG23	1.88	0.71
1:B:790:TYR:CE1	1:B:800:PRO:HB3	2.25	0.71
1:C:166:ILE:CG1	2:C:1075:HOH:O	2.38	0.71
1:C:169:THR:HG22	1:C:172:VAL:HG23	1.72	0.71
1:A:1027:VAL:O	1:A:1029:VAL:O	2.07	0.71
1:A:894:SER:OG	1:A:897:ILE:HB	1.90	0.71
1:C:777:ALA:O	1:C:779:TYR:N	2.24	0.71
1:B:987:MET:HE2	1:B:987:MET:O	1.90	0.71
1:C:945:ILE:O	1:C:946:VAL:HG23	1.90	0.71
1:B:623:ASN:HD22	1:B:624:THR:N	1.88	0.71
1:B:219:LEU:HD12	1:B:234:ILE:HG12	1.71	0.71
1:C:290:GLY:O	1:C:291:ILE:HG13	1.91	0.71
1:C:317:PHE:HB2	1:C:318:PRO:HD2	1.71	0.71
1:C:418:ARG:HG3	1:C:419:VAL:HG13	1.73	0.71
1:B:518:ARG:HA	1:B:521:GLU:HB2	1.73	0.71
1:B:228:GLN:HG2	1:C:781:MET:HE1	1.73	0.71
1:C:463:THR:HG22	1:C:464:GLY:N	2.05	0.71
1:B:231:ASN:C	1:B:231:ASN:ND2	2.43	0.71
1:A:65:ILE:O	1:A:68:ASN:HB2	1.91	0.71
1:C:350:LEU:HD13	1:C:984:LEU:HD23	1.73	0.71
1:C:552:MET:O	1:C:553:ALA:HB3	1.90	0.71
1:A:818:ARG:NE	1:A:818:ARG:CB	2.54	0.70
1:A:687:GLN:HG2	1:C:316:PHE:CD1	2.25	0.70
1:A:328:ASP:O	1:A:331:PRO:HD2	1.91	0.70
1:A:189:ASN:HD21	1:A:192:GLU:CB	2.04	0.70
1:C:158:VAL:CG2	1:C:158:VAL:CA	2.69	0.70
1:A:551:GLY:O	1:A:554:TYR:HB3	1.91	0.70
1:C:399:VAL:HA	1:C:402:ILE:CD1	2.21	0.70
1:B:188:MET:SD	1:B:200:PRO:HB3	2.31	0.70
1:C:144:ASN:ND2	1:C:149:MET:HG3	2.07	0.70
1:B:291:ILE:HG21	1:B:306:ILE:CD1	2.22	0.70
1:A:9:PRO:HB3	1:A:491:ALA:HB1	1.73	0.70
1:C:959:GLY:H	1:C:962:GLU:HB2	1.56	0.70
1:B:556:PHE:N	1:B:913:LEU:HD21	2.06	0.70
1:B:537:SER:HB2	1:B:540:ARG:CG	2.21	0.70
1:B:1005:THR:O	1:B:1005:THR:HG22	1.89	0.70
1:C:12:ALA:HB1	1:C:487:ILE:HG22	1.73	0.70
1:A:228:GLN:HG2	1:B:781:MET:CG	2.22	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:279:ALA:HA	1:B:611:ALA:O	1.91	0.70
1:C:166:ILE:C	1:C:172:VAL:HG11	2.11	0.70
1:B:987:MET:O	1:B:990:VAL:HB	1.92	0.70
1:C:192:GLU:O	1:C:195:LYS:N	2.25	0.70
1:B:523:SER:HA	1:B:526:HIS:CD2	2.18	0.70
1:C:785:ASP:C	1:C:787:GLY:H	1.93	0.70
1:B:705:GLU:O	1:B:707:ALA:N	2.23	0.70
1:A:634:TRP:HE3	1:A:995:ALA:HB1	1.54	0.70
1:A:1013:THR:O	1:A:1017:LEU:HB3	1.91	0.70
1:A:73:ASP:CB	1:A:106:GLN:HE22	2.05	0.70
1:C:945:ILE:HB	1:C:971:ARG:HG3	1.72	0.70
1:A:155:SER:HA	1:A:287:SER:OG	1.92	0.70
1:C:1035:ARG:HA	1:C:1035:ARG:HE	1.57	0.70
1:A:68:ASN:O	1:A:70:ASN:N	2.25	0.69
1:C:166:ILE:CA	1:C:166:ILE:CG1	2.70	0.69
1:B:542:LEU:HD11	1:B:1028:VAL:HG11	1.74	0.69
1:A:936:GLY:O	1:A:940:LYS:HB2	1.91	0.69
1:C:146:ASP:HB2	1:C:148:THR:OG1	1.92	0.69
1:A:64:VAL:C	1:A:65:ILE:C	2.50	0.69
1:C:915:ALA:HA	1:C:918:PHE:HB3	1.73	0.69
1:B:713:LEU:H	1:B:713:LEU:CD1	2.05	0.69
1:C:450:SER:O	1:C:451:ALA:HB2	1.92	0.69
1:A:11:PHE:CE1	1:B:890:ALA:HB1	2.27	0.69
1:A:114:ALA:O	1:A:117:LEU:HB2	1.92	0.69
1:A:531:VAL:HA	1:A:534:ILE:CD1	2.14	0.69
1:B:118:LEU:HD23	1:B:122:VAL:HG11	1.74	0.69
1:B:13:TRP:O	1:B:17:ILE:HG12	1.92	0.69
1:B:1024:VAL:HG12	1:B:1025:PHE:H	1.56	0.69
1:C:7:ASP:O	1:C:9:PRO:HD3	1.92	0.69
1:B:225:VAL:HG22	1:C:781:MET:HE2	1.72	0.69
1:C:247:GLY:CA	1:C:268:ILE:HD13	2.23	0.69
1:A:901:VAL:HG11	1:A:943:ILE:HG12	1.74	0.69
1:B:986:VAL:O	1:B:990:VAL:HG23	1.92	0.69
1:B:851:LEU:N	1:B:852:PRO:HD3	2.08	0.69
1:B:49:TYR:CG	1:B:122:VAL:HG22	2.27	0.69
1:B:157:TYR:CA	1:B:161:ASN:HD22	2.05	0.69
1:C:159:ALA:O	1:C:160:ALA:C	2.17	0.69
1:C:163:LYS:HG2	1:C:175:VAL:HG11	1.74	0.69
1:C:131:LYS:C	1:C:295:THR:HG22	2.12	0.69
1:C:402:ILE:O	1:C:406:VAL:HG23	1.92	0.69
1:C:415:ASN:HD21	1:C:434:SER:HB2	1.57	0.69
1:C:556:PHE:HB2	1:C:913:LEU:CD1	2.22	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:340:VAL:HG13	1:A:399:VAL:CG2	2.23	0.69
1:A:115:MET:O	1:A:117:LEU:N	2.25	0.69
1:B:943:ILE:O	1:B:947:GLU:HB3	1.92	0.69
1:B:773:VAL:O	1:B:773:VAL:HG13	1.92	0.69
1:A:822:LEU:N	1:A:822:LEU:HD22	2.08	0.69
1:B:973:ARG:HG2	1:B:974:PRO:CD	2.22	0.69
1:A:653:ARG:O	1:A:656:SER:N	2.24	0.69
1:B:572:PHE:CZ	1:B:629:VAL:HG21	2.27	0.69
1:C:184:MET:CE	1:C:184:MET:HA	2.23	0.69
1:B:845:GLU:HG3	1:B:857:TYR:OH	1.93	0.69
1:A:731:ILE:HD12	1:A:731:ILE:N	2.07	0.69
1:A:108:GLN:CG	1:B:112:GLN:CD	2.62	0.69
1:C:157:TYR:O	1:C:161:ASN:HB2	1.93	0.69
1:C:82:SER:OG	1:C:88:VAL:HG13	1.93	0.69
1:B:929:VAL:O	1:B:933:THR:OG1	2.11	0.69
1:C:358:PHE:HB3	1:C:977:MET:CE	2.19	0.69
1:C:214:VAL:CG1	1:C:215:ALA:N	2.56	0.69
1:B:211:ASN:ND2	1:B:246:PHE:HZ	1.91	0.69
1:A:659:LYS:O	1:A:661:ALA:N	2.26	0.69
1:A:200:PRO:HG2	1:A:749:THR:HA	1.73	0.69
1:A:124:GLN:HG2	1:A:758:TYR:CE2	2.28	0.69
1:B:1012:VAL:HG23	1:B:1013:THR:N	2.08	0.68
1:B:151:GLN:HE22	1:B:279:ALA:H	1.39	0.68
1:B:425:LEU:HB3	1:B:498:LYS:O	1.93	0.68
1:A:279:ALA:HA	1:A:612:VAL:HG12	1.74	0.68
1:A:406:VAL:CG1	1:A:407:ASP:N	2.56	0.68
1:A:572:PHE:CE1	1:A:629:VAL:HG13	2.29	0.68
1:B:771:VAL:O	1:B:771:VAL:HG12	1.92	0.68
1:B:281:PHE:HE1	1:B:608:SER:HG	1.39	0.68
1:C:33:ALA:HB2	1:C:298:ASN:ND2	2.08	0.68
1:A:813:SER:HB3	1:A:816:LEU:HD21	1.73	0.68
1:A:950:LYS:O	1:A:951:ASP:HB3	1.93	0.68
1:B:214:VAL:HG21	1:C:747:ASN:HD21	1.58	0.68
1:B:207:ILE:CG2	1:B:759:VAL:HG11	2.22	0.68
1:C:590:VAL:O	1:C:594:VAL:HG23	1.92	0.68
1:C:592:ASN:O	1:C:593:GLU:CB	2.42	0.68
1:B:109:ASN:HD22	1:B:112:GLN:HE22	1.41	0.68
1:C:939:ALA:O	1:C:943:ILE:CD1	2.42	0.68
1:B:922:THR:OG1	1:B:923:ASN:N	2.26	0.68
1:A:73:ASP:HB3	2:C:1054:HOH:O	1.93	0.68
1:A:413:VAL:HG23	1:A:493:CYS:CB	2.23	0.68
1:A:596:HIS:C	1:A:598:TYR:H	1.95	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:199:THR:HB	1:A:200:PRO:HD2	1.76	0.68
1:B:584:GLN:HB2	1:B:622:GLN:HE21	1.58	0.68
1:A:372:VAL:O	1:A:375:VAL:N	2.26	0.68
1:A:106:GLN:O	1:A:107:VAL:C	2.26	0.68
1:C:713:LEU:HD12	1:C:833:PRO:O	1.91	0.68
1:B:327:TYR:CD2	1:B:628:PHE:HB3	2.28	0.68
1:A:521:GLU:HB3	1:A:522:LYS:NZ	2.08	0.68
1:C:1016:VAL:O	1:C:1018:ALA:N	2.22	0.68
1:B:659:LYS:NZ	1:B:659:LYS:HA	2.08	0.68
1:B:356:TYR:C	1:B:358:PHE:H	1.95	0.68
1:A:552:MET:HE1	1:A:906:PRO:CA	2.24	0.68
1:B:919:ARG:HG3	1:B:1005:THR:HG21	1.76	0.68
1:B:420:MET:CE	1:B:425:LEU:HD23	2.23	0.68
1:B:138:MET:HE3	1:B:306:ILE:HD13	1.76	0.68
1:B:739:LEU:O	1:B:793:ALA:HB1	1.94	0.68
1:C:420:MET:SD	1:C:498:LYS:CD	2.81	0.68
1:A:773:VAL:O	1:A:773:VAL:CG1	2.42	0.68
1:C:576:VAL:HG12	1:C:663:VAL:HG22	1.74	0.68
1:B:129:VAL:HG12	1:B:129:VAL:O	1.94	0.68
1:A:819:TYR:O	1:A:822:LEU:N	2.18	0.68
1:A:822:LEU:HB3	2:A:1059:HOH:O	1.94	0.68
1:C:713:LEU:N	1:C:713:LEU:HD22	2.09	0.68
1:C:713:LEU:HB2	1:C:832:ALA:HB3	1.75	0.68
1:B:418:ARG:HE	1:B:970:MET:HE3	1.58	0.68
1:B:591:LEU:O	1:B:595:THR:HG22	1.92	0.68
1:A:855:VAL:HG23	1:A:855:VAL:O	1.94	0.68
1:A:104:GLN:O	1:A:108:GLN:HB2	1.94	0.67
1:B:120:GLN:HG2	1:B:124:GLN:HG2	1.76	0.67
1:C:110:LYS:O	1:C:112:GLN:N	2.27	0.67
1:B:358:PHE:CZ	1:B:976:LEU:HD12	2.27	0.67
1:B:404:LEU:HD13	1:B:449:LEU:HD13	1.75	0.67
1:A:901:VAL:O	1:A:904:VAL:CG2	2.41	0.67
1:A:909:VAL:CG1	1:A:913:LEU:HD21	2.22	0.67
1:B:119:PRO:HG2	1:B:122:VAL:CG2	2.24	0.67
1:B:116:PRO:HA	1:B:123:GLN:HE22	1.59	0.67
1:C:727:PHE:CZ	1:C:783:PRO:HB3	2.29	0.67
1:C:658:ILE:HD12	1:C:658:ILE:H	1.60	0.67
1:C:58:GLN:OE1	1:C:82:SER:CA	2.43	0.67
1:C:58:GLN:OE1	1:C:82:SER:N	2.26	0.67
1:B:525:HIS:HA	1:B:528:THR:CG2	2.25	0.67
1:A:435:MET:HA	1:A:438:ILE:HD11	1.76	0.67
1:B:190:PRO:HG2	1:B:779:TYR:CG	2.30	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:342:LYS:HG3	1:A:343:THR:N	2.10	0.67
1:C:159:ALA:C	1:C:161:ASN:H	1.98	0.67
1:B:416:VAL:CG2	1:B:431:THR:HA	2.25	0.67
1:B:537:SER:O	1:B:540:ARG:HB2	1.94	0.67
1:C:778:LYS:O	1:C:779:TYR:HD2	1.77	0.67
1:C:905:VAL:HB	1:C:906:PRO:HD3	1.75	0.67
1:B:150:THR:H	1:B:153:ASP:CB	2.08	0.67
1:A:173:GLY:HA3	1:A:294:ALA:HA	1.76	0.67
1:A:815:ARG:CZ	2:A:1071:HOH:O	2.41	0.67
1:A:818:ARG:HA	1:A:824:SER:N	2.10	0.67
1:B:347:ALA:HB1	1:B:402:ILE:HG21	1.76	0.67
1:C:5:PHE:HE2	1:C:11:PHE:HD2	1.40	0.67
1:A:571:VAL:HG12	1:A:630:SER:CA	2.24	0.67
1:C:457:ALA:CB	1:C:468:ARG:HA	2.23	0.67
1:A:818:ARG:HB2	1:A:818:ARG:HE	1.57	0.67
1:C:426:PRO:HB2	1:C:429:GLU:HB2	1.77	0.67
1:A:742:SER:HG	1:A:745:ASP:HB2	1.57	0.67
1:A:201:VAL:HG21	1:A:745:ASP:OD2	1.95	0.67
1:C:166:ILE:HA	1:C:166:ILE:CG1	2.24	0.67
1:C:613:ASN:C	1:C:613:ASN:OD1	2.32	0.67
1:B:94:PHE:HB2	1:B:98:THR:HG21	1.77	0.67
1:B:6:ILE:HA	1:B:491:ALA:HA	1.77	0.67
1:A:536:ARG:HD2	1:A:536:ARG:H	1.60	0.67
1:C:225:VAL:O	1:C:226:LYS:C	2.32	0.67
1:B:298:ASN:O	1:B:302:THR:HG23	1.94	0.67
1:B:178:PHE:HE1	1:B:615:PHE:CE2	2.13	0.67
1:B:175:VAL:O	1:B:175:VAL:HG12	1.94	0.67
1:B:940:LYS:O	1:B:941:ASN:C	2.32	0.67
1:C:103:ALA:O	1:C:104:GLN:C	2.32	0.67
1:A:1018:ALA:HB1	1:A:1022:VAL:CG1	2.24	0.67
1:C:190:PRO:HG3	1:C:789:TRP:CH2	2.30	0.67
1:B:172:VAL:CG1	1:B:172:VAL:O	2.39	0.67
1:A:69:MET:C	1:A:70:ASN:ND2	2.48	0.66
1:C:953:MET:HE1	1:C:1030:ARG:HH22	1.61	0.66
1:C:389:SER:OG	1:C:391:ASN:ND2	2.28	0.66
1:A:583:THR:HG22	1:A:585:GLU:H	1.58	0.66
1:B:30:LEU:HD23	1:B:390:ILE:CG1	2.24	0.66
1:B:860:THR:HG22	1:B:861:GLY:N	2.10	0.66
1:A:376:LEU:O	1:A:377:LEU:C	2.34	0.66
1:C:713:LEU:O	1:C:831:ALA:HA	1.95	0.66
1:B:641:GLU:HA	1:B:650:ARG:NH1	2.11	0.66
1:B:124:GLN:O	1:B:125:GLN:HB2	1.95	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:125:GLN:HG2	1:B:125:GLN:O	1.94	0.66
1:C:457:ALA:N	1:C:459:PHE:CE2	2.61	0.66
1:A:987:MET:N	1:A:988:PRO:HD2	2.10	0.66
1:A:521:GLU:HB3	1:A:522:LYS:HZ3	1.60	0.66
1:B:330:THR:N	1:B:331:PRO:HD2	2.11	0.66
1:A:674:LEU:HD22	1:A:675:GLY:H	1.61	0.66
1:B:74:ASN:O	1:B:94:PHE:HB3	1.95	0.66
1:C:1024:VAL:O	1:C:1028:VAL:HG23	1.95	0.66
1:C:476:SER:C	1:C:478:MET:H	1.98	0.66
1:A:736:ALA:O	1:A:741:VAL:CG1	2.43	0.66
1:B:671:ILE:O	1:B:673:GLU:HB2	1.95	0.66
1:C:586:ARG:O	1:C:589:LYS:HB2	1.95	0.66
1:C:688:ALA:O	1:C:690:LEU:N	2.25	0.66
1:C:143:ILE:CD1	1:C:286:ALA:HB2	2.25	0.66
1:A:55:LYS:HD3	1:A:816:LEU:HD11	1.77	0.66
1:C:317:PHE:HB2	1:C:318:PRO:CD	2.26	0.66
1:B:990:VAL:CG1	1:B:1005:THR:OG1	2.38	0.66
1:A:243:THR:HG22	1:A:268:ILE:HG22	1.78	0.66
1:C:997:SER:O	1:C:998:GLY:C	2.31	0.66
1:A:119:PRO:HG2	1:A:122:VAL:HG23	1.78	0.66
1:A:189:ASN:HD21	1:A:192:GLU:HB3	1.61	0.66
1:A:759:VAL:HG12	1:A:760:ASN:N	2.09	0.66
1:C:1026:PHE:O	1:C:1029:VAL:HB	1.96	0.66
1:C:35:TYR:CD1	1:C:671:ILE:HG12	2.31	0.66
1:C:380:PHE:CE1	1:C:398:MET:SD	2.88	0.66
1:A:693:GLU:O	1:A:696:THR:N	2.23	0.66
1:C:592:ASN:HD22	1:C:592:ASN:H	1.40	0.66
1:C:713:LEU:HG	1:C:832:ALA:C	2.17	0.66
1:A:540:ARG:HD2	1:A:541:TYR:CD2	2.30	0.66
1:C:189:ASN:CG	1:C:779:TYR:HE1	1.98	0.66
1:C:372:VAL:HG21	1:C:402:ILE:HG23	1.78	0.66
1:C:416:VAL:HG12	1:C:434:SER:OG	1.96	0.66
1:C:801:PHE:HA	1:C:804:PHE:CZ	2.31	0.66
1:C:714:THR:HG22	1:C:715:SER:H	1.60	0.66
1:C:163:LYS:HD2	1:C:177:LEU:HB2	1.76	0.66
1:C:181:GLN:HG2	1:C:769:LYS:HE3	1.78	0.66
1:B:238:THR:OG1	1:B:239:ARG:N	2.29	0.66
1:B:940:LYS:NZ	1:B:978:THR:HG23	2.10	0.66
1:C:474:ILE:O	1:C:476:SER:O	2.14	0.66
1:C:367:ILE:HG23	1:C:368:PRO:HD3	1.78	0.66
1:A:719:ASN:HB2	1:A:828:LEU:HD23	1.78	0.66
1:B:95:GLU:O	1:B:98:THR:HB	1.96	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:843:LEU:O	1:C:846:GLN:HB2	1.96	0.66
1:A:111:LEU:O	1:A:113:LEU:N	2.29	0.66
1:B:1026:PHE:O	1:B:1030:ARG:HG3	1.95	0.66
1:A:344:LEU:CD2	1:A:402:ILE:CD1	2.68	0.66
1:C:901:VAL:HG11	1:C:943:ILE:HD13	1.76	0.66
1:C:166:ILE:CA	1:C:166:ILE:HD13	2.12	0.65
1:C:423:GLU:O	1:C:426:PRO:HD3	1.97	0.65
1:B:199:THR:N	1:B:202:ASP:OD2	2.27	0.65
1:C:102:ILE:O	1:C:103:ALA:C	2.31	0.65
1:B:30:LEU:HD23	1:B:390:ILE:CD1	2.26	0.65
1:C:633:ASP:O	1:C:634:TRP:HB2	1.95	0.65
1:A:44:THR:HA	1:A:91:THR:HA	1.79	0.65
1:A:706:ALA:HB3	1:A:716:VAL:HG21	1.77	0.65
1:B:902:MET:O	1:B:905:VAL:HG12	1.97	0.65
1:C:939:ALA:O	1:C:943:ILE:HD11	1.95	0.65
1:A:330:THR:HG23	1:A:334:LYS:HE2	1.78	0.65
1:C:188:MET:HA	1:C:266:ALA:HB1	1.78	0.65
1:B:644:VAL:HG23	1:B:645:GLU:H	1.61	0.65
1:C:115:MET:HE1	1:C:118:LEU:CD2	2.27	0.65
1:B:775:SER:HB3	1:B:780:ARG:CG	2.27	0.65
1:B:984:LEU:O	1:B:984:LEU:HD13	1.96	0.65
1:B:495:THR:O	1:B:498:LYS:HE3	1.97	0.65
1:A:108:GLN:CA	1:A:108:GLN:CG	2.74	0.65
1:A:128:SER:HB2	1:B:113:LEU:HD21	1.77	0.65
1:A:100:ALA:CB	1:A:131:LYS:HE3	2.27	0.65
1:B:405:LEU:HD12	1:B:406:VAL:H	1.60	0.65
1:C:713:LEU:CG	1:C:832:ALA:O	2.36	0.65
1:C:524:THR:O	1:C:527:TYR:HB3	1.97	0.65
1:B:328:ASP:C	1:B:328:ASP:OD2	2.35	0.65
1:B:773:VAL:CG1	1:B:773:VAL:O	2.45	0.65
1:A:83:ASP:HB3	2:A:1068:HOH:O	1.96	0.65
1:A:76:MET:CG	1:A:95:GLU:OE2	2.42	0.65
1:A:128:SER:CB	1:B:113:LEU:CD2	2.75	0.65
1:C:324:VAL:HG23	1:C:326:PRO:HD3	1.79	0.65
1:C:45:ILE:CA	1:C:45:ILE:CG2	2.71	0.65
1:B:1024:VAL:CG1	1:B:1028:VAL:HG21	2.27	0.65
1:A:527:TYR:O	1:A:530:SER:OG	2.11	0.65
1:C:14:VAL:HG13	1:C:15:ILE:N	2.12	0.65
1:B:45:ILE:HG22	1:B:46:SER:N	2.12	0.65
1:B:293:LEU:HD22	1:B:294:ALA:O	1.97	0.65
1:C:74:ASN:HB3	1:C:95:GLU:HB2	1.78	0.65
1:B:330:THR:N	1:B:331:PRO:CD	2.59	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:197:GLN:HB3	1:C:798:MET:HE2	1.79	0.65
1:B:655:PHE:HA	1:B:658:ILE:HG21	1.79	0.65
1:A:133:SER:HG	1:A:136:PHE:HE1	1.43	0.65
1:C:169:THR:C	1:C:169:THR:CB	2.64	0.65
1:B:6:ILE:CD1	1:B:490:PRO:HB2	2.26	0.65
1:A:263:ARG:HB3	1:A:263:ARG:HH21	1.62	0.65
1:A:521:GLU:HG3	2:A:1075:HOH:O	1.97	0.65
1:B:601:LYS:O	1:B:603:LYS:N	2.30	0.65
1:A:100:ALA:HB1	1:A:131:LYS:HE3	1.79	0.65
1:C:54:ALA:N	1:C:57:VAL:HG23	2.12	0.65
1:C:728:LYS:HG3	1:C:729:ILE:H	1.60	0.65
1:C:431:THR:O	1:C:435:MET:HG2	1.96	0.65
1:B:646:ALA:C	1:B:648:THR:N	2.46	0.65
1:B:572:PHE:HB2	1:B:666:PHE:O	1.97	0.65
1:B:49:TYR:CE2	1:B:125:GLN:HB3	2.31	0.65
1:B:578:LEU:HB2	1:B:623:ASN:HB2	1.79	0.65
1:A:222:THR:HG22	1:A:223:PRO:HD2	1.79	0.65
1:A:60:THR:CG2	1:A:119:PRO:HD3	2.26	0.65
1:C:592:ASN:O	1:C:593:GLU:HB3	1.97	0.65
1:B:598:TYR:HB3	1:B:606:VAL:HG11	1.78	0.65
1:B:160:ALA:HB1	1:B:767:ARG:HD3	1.76	0.65
1:C:60:THR:CG2	1:C:61:VAL:HG23	2.26	0.65
1:C:786:ILE:O	1:C:786:ILE:HG22	1.97	0.65
1:B:699:ARG:HB3	1:B:699:ARG:HH11	1.62	0.65
1:B:835:LYS:HB2	1:B:839:GLU:OE2	1.96	0.65
1:B:561:SER:HB2	1:B:838:GLY:HA3	1.78	0.65
1:C:520:PHE:O	1:C:523:SER:N	2.29	0.65
1:C:1024:VAL:HG12	1:C:1028:VAL:HG21	1.78	0.65
1:A:56:THR:HG23	1:C:213:GLN:HG3	1.79	0.65
1:C:110:LYS:O	1:C:111:LEU:C	2.35	0.64
1:B:1012:VAL:CG2	1:B:1013:THR:N	2.61	0.64
1:A:905:VAL:HB	1:A:906:PRO:HD3	1.78	0.64
1:C:844:MET:HA	1:C:847:LEU:HD21	1.78	0.64
1:C:395:MET:O	1:C:398:MET:N	2.30	0.64
1:C:545:TYR:OH	1:C:1021:PHE:CG	2.49	0.64
1:C:657:GLN:O	1:C:659:LYS:N	2.30	0.64
1:A:95:GLU:O	1:A:98:THR:HG23	1.97	0.64
1:C:64:VAL:HG12	1:C:65:ILE:N	2.11	0.64
1:B:468:ARG:O	1:B:469:GLN:C	2.34	0.64
1:B:537:SER:C	1:B:540:ARG:HE	2.00	0.64
1:B:544:LEU:CA	1:B:547:ILE:HD12	2.19	0.64
1:B:960:LEU:HD12	1:B:961:ILE:HG13	1.79	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:885:PHE:CD2	1:A:886:LEU:HD12	2.32	0.64
1:C:244:GLU:HA	1:C:263:ARG:HH22	1.61	0.64
1:B:972:LEU:CD1	1:B:976:LEU:HD23	2.28	0.64
1:A:355:MET:HE3	1:A:410:ILE:HG12	1.78	0.64
1:C:545:TYR:OH	1:C:1021:PHE:CB	2.45	0.64
1:C:222:THR:HB	1:C:223:PRO:CD	2.24	0.64
1:A:418:ARG:CD	1:A:970:MET:HG3	2.25	0.64
1:B:139:VAL:O	1:B:139:VAL:HG12	1.96	0.64
1:A:476:SER:O	1:A:480:LEU:HB2	1.96	0.64
1:C:62:THR:CB	2:C:1064:HOH:O	2.45	0.64
1:A:534:ILE:HD12	1:A:540:ARG:NH2	2.13	0.64
1:A:727:PHE:O	1:C:234:ILE:HA	1.97	0.64
1:C:418:ARG:HG3	1:C:419:VAL:CG1	2.28	0.64
1:B:654:ALA:O	1:B:656:SER:N	2.31	0.64
1:A:574:THR:HG21	1:A:598:TYR:HE1	1.63	0.64
1:B:659:LYS:HA	1:B:659:LYS:HZ3	1.62	0.64
1:A:298:ASN:HD22	1:A:300:LEU:N	1.95	0.64
1:B:715:SER:HB2	1:B:830:GLN:NE2	2.12	0.64
1:C:899:PHE:CD1	1:C:899:PHE:N	2.65	0.64
1:A:59:ASP:HB3	1:C:763:ILE:HD11	1.78	0.64
1:B:314:GLU:N	1:B:315:PRO:HD2	2.12	0.64
1:C:710:PRO:O	1:C:712:MET:O	2.16	0.64
1:A:540:ARG:HG2	2:A:1064:HOH:O	1.96	0.64
1:C:1:MET:CE	1:C:439:GLN:HE22	2.11	0.64
1:A:785:ASP:O	1:A:788:ASP:N	2.30	0.64
1:B:1012:VAL:CG2	1:B:1013:THR:H	2.10	0.64
1:B:2:PRO:CD	1:B:486:LEU:HD12	2.28	0.64
1:A:911:GLY:H	1:A:914:LEU:HD13	1.63	0.64
1:C:404:LEU:O	1:C:405:LEU:HD23	1.98	0.64
1:C:114:ALA:O	1:C:118:LEU:HD13	1.98	0.64
1:C:115:MET:SD	1:C:123:GLN:NE2	2.71	0.64
1:C:344:LEU:CD2	1:C:402:ILE:HD11	2.28	0.64
1:B:68:ASN:O	1:B:70:ASN:ND2	2.31	0.64
1:B:184:MET:O	1:B:184:MET:CG	2.46	0.64
1:B:136:PHE:CE1	1:B:617:PHE:HZ	2.16	0.64
1:C:26:ALA:O	1:C:30:LEU:HG	1.98	0.64
1:A:949:ALA:HB1	1:A:1026:PHE:CZ	2.33	0.64
1:C:850:LYS:O	1:C:851:LEU:O	2.16	0.64
1:C:371:ALA:O	1:C:375:VAL:HG23	1.98	0.64
1:B:328:ASP:OD2	1:B:330:THR:N	2.31	0.64
1:B:335:ILE:C	1:B:337:ILE:H	2.00	0.64
1:C:672:VAL:HG12	1:C:672:VAL:O	1.98	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:167:SER:C	1:C:167:SER:N	2.51	0.64
1:B:187:TRP:HZ3	1:B:774:MET:HE3	1.61	0.64
1:B:9:PRO:O	1:B:12:ALA:HB3	1.97	0.64
1:C:894:SER:C	1:C:896:SER:H	2.01	0.64
1:B:356:TYR:C	1:B:358:PHE:N	2.50	0.64
1:A:728:LYS:HZ3	1:C:235:ILE:HG22	1.60	0.64
1:C:545:TYR:HA	1:C:548:ILE:HG13	1.80	0.64
1:A:601:LYS:O	1:A:601:LYS:HG3	1.98	0.64
1:B:463:THR:HG21	1:B:869:SER:HB2	1.80	0.64
1:A:692:HIS:O	1:A:696:THR:OG1	2.13	0.64
1:A:44:THR:HG22	1:A:89:GLN:HG3	1.80	0.64
1:A:255:GLN:O	1:A:256:ASP:OD1	2.16	0.64
1:C:176:GLN:NE2	1:C:620:ARG:HH11	1.96	0.64
1:B:437:GLN:HA	1:B:437:GLN:HE21	1.63	0.64
1:B:410:ILE:HG23	1:B:414:GLU:OE2	1.98	0.63
1:C:687:GLN:HB2	1:C:854:GLY:O	1.97	0.63
1:B:750:LEU:HD13	1:B:750:LEU:O	1.98	0.63
1:A:225:VAL:HG12	1:A:226:LYS:N	2.12	0.63
1:A:46:SER:HA	1:A:88:VAL:O	1.99	0.63
1:A:935:ILE:O	1:A:935:ILE:HG22	1.97	0.63
1:C:60:THR:HG23	1:C:61:VAL:HG23	1.80	0.63
1:C:391:ASN:H	1:C:394:THR:HG23	1.63	0.63
1:A:649:MET:CB	1:A:653:ARG:HH21	2.04	0.63
1:A:367:ILE:HG12	1:A:413:VAL:HG21	1.80	0.63
1:B:371:ALA:O	1:B:375:VAL:HG23	1.98	0.63
1:C:361:ASN:HB2	1:C:364:ALA:HB3	1.80	0.63
1:B:953:MET:O	1:B:953:MET:HG2	1.98	0.63
1:A:818:ARG:CD	1:A:818:ARG:CB	2.76	0.63
1:B:416:VAL:HG21	1:B:431:THR:HA	1.80	0.63
1:B:314:GLU:N	1:B:315:PRO:CD	2.61	0.63
1:C:644:VAL:HG11	1:C:667:ASN:ND2	2.11	0.63
1:A:298:ASN:HD22	1:A:300:LEU:H	1.44	0.63
1:A:102:ILE:HA	1:A:105:VAL:HG23	1.80	0.63
1:C:159:ALA:CA	2:C:1078:HOH:O	1.89	0.63
1:A:348:ILE:HA	1:A:351:VAL:HG23	1.80	0.63
1:A:443:VAL:CG1	1:A:444:GLY:H	1.98	0.63
1:B:228:GLN:CG	1:C:781:MET:HE1	2.29	0.63
1:C:465:ALA:O	1:C:469:GLN:HG2	1.99	0.63
1:C:615:PHE:O	1:C:615:PHE:CD2	2.51	0.63
1:B:452:VAL:O	1:B:453:PHE:CB	2.46	0.63
1:C:924:ASP:C	1:C:925:VAL:O	2.31	0.63
1:B:235:ILE:N	1:B:235:ILE:HD13	2.13	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:598:TYR:CD2	1:C:606:VAL:HG21	2.33	0.63
1:A:688:ALA:O	1:A:689:GLY:C	2.36	0.63
1:C:950:LYS:HZ3	1:C:1030:ARG:CD	2.06	0.63
1:A:983:ILE:HG13	1:A:984:LEU:N	2.14	0.63
1:A:968:VAL:HG21	1:A:1023:PRO:CB	2.29	0.63
1:A:989:LEU:HG	1:A:993:THR:HG23	1.81	0.63
1:A:516:PHE:C	1:A:518:ARG:H	2.00	0.63
1:B:674:LEU:HD13	1:B:860:THR:CG2	2.28	0.63
1:B:859:TRP:HB3	1:B:863:SER:CB	2.28	0.63
1:C:177:LEU:HD13	1:C:179:GLY:C	2.18	0.63
1:A:1024:VAL:HG12	1:A:1025:PHE:N	2.13	0.63
1:C:346:GLU:O	1:C:349:ILE:HB	1.99	0.63
1:B:613:ASN:ND2	1:B:614:GLY:N	2.46	0.63
1:A:255:GLN:CD	1:A:255:GLN:N	2.52	0.63
1:B:10:ILE:HG13	1:C:893:GLU:O	1.99	0.63
1:C:391:ASN:N	1:C:394:THR:CG2	2.62	0.63
1:B:360:GLN:O	1:B:361:ASN:HB2	1.99	0.63
1:C:114:ALA:O	1:C:115:MET:C	2.35	0.63
1:B:545:TYR:OH	1:B:906:PRO:HG3	1.99	0.63
1:B:713:LEU:N	1:B:713:LEU:HD12	2.14	0.63
1:C:221:GLY:O	1:C:222:THR:C	2.37	0.63
1:A:54:ALA:O	1:A:58:GLN:N	2.29	0.62
1:A:73:ASP:CG	1:A:106:GLN:NE2	2.53	0.62
1:B:136:PHE:HA	1:B:292:LYS:HG3	1.81	0.62
1:C:274:ASN:CB	2:C:1060:HOH:O	2.20	0.62
1:B:538:THR:HG23	1:B:540:ARG:NH2	2.14	0.62
1:B:945:ILE:HD12	1:B:1026:PHE:CE2	2.31	0.62
1:A:154:ILE:O	1:A:158:VAL:HG23	1.99	0.62
1:A:574:THR:OG1	1:A:627:ALA:HB3	1.99	0.62
1:C:204:ILE:HG12	1:C:759:VAL:CG1	2.29	0.62
1:B:775:SER:HB3	1:B:780:ARG:HG3	1.80	0.62
1:A:64:VAL:O	1:A:65:ILE:O	2.17	0.62
1:A:756:GLY:CA	1:A:774:MET:HB2	2.29	0.62
1:A:5:PHE:CE1	1:A:12:ALA:HB2	2.33	0.62
1:C:457:ALA:H	1:C:459:PHE:HE2	1.42	0.62
1:A:106:GLN:O	1:A:110:LYS:HB2	1.98	0.62
1:C:190:PRO:HG3	1:C:789:TRP:CZ2	2.34	0.62
1:C:379:THR:HB	1:C:398:MET:HE3	1.81	0.62
1:B:831:ALA:HB3	1:B:840:ALA:HB2	1.80	0.62
1:A:298:ASN:C	1:A:298:ASN:ND2	2.52	0.62
1:B:252:LYS:HB3	1:B:260:VAL:CG1	2.30	0.62
1:C:189:ASN:HD22	1:C:190:PRO:N	1.98	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:723:ASP:HA	1:B:814:PRO:HD3	1.81	0.62
1:B:589:LYS:O	1:B:592:ASN:HB2	2.00	0.62
1:C:785:ASP:C	1:C:787:GLY:N	2.51	0.62
1:B:148:THR:O	1:B:148:THR:HG22	2.00	0.62
1:C:999:ALA:O	1:C:1003:VAL:HG23	1.99	0.62
1:C:463:THR:HA	1:C:466:ILE:HD13	1.80	0.62
1:A:750:LEU:HD11	1:C:216:ALA:HB2	1.82	0.62
1:C:104:GLN:NE2	1:C:131:LYS:HE2	2.15	0.62
1:C:830:GLN:OE1	1:C:832:ALA:HA	2.00	0.62
1:C:554:TYR:O	1:C:555:LEU:HB2	1.99	0.62
1:B:699:ARG:HG2	1:B:700:ASN:N	2.14	0.62
1:B:831:ALA:HB2	1:B:840:ALA:HB2	1.82	0.62
1:C:925:VAL:C	1:C:927:PHE:H	2.03	0.62
1:A:184:MET:HB3	1:A:771:VAL:HG13	1.80	0.62
1:B:534:ILE:HG23	1:B:541:TYR:CZ	2.35	0.62
1:C:778:LYS:C	1:C:779:TYR:HD2	2.03	0.62
1:A:728:LYS:HG3	1:A:729:ILE:O	2.00	0.62
1:B:852:PRO:HA	1:B:855:VAL:HB	1.80	0.62
1:C:644:VAL:CG1	1:C:667:ASN:HB2	2.30	0.62
1:A:1:MET:H2	1:A:2:PRO:HD2	1.65	0.62
1:C:92:LEU:HD22	1:C:107:VAL:HG22	1.82	0.62
1:B:407:ASP:C	1:B:408:ASP:O	2.37	0.62
1:A:228:GLN:CG	1:B:781:MET:HG2	2.30	0.62
1:A:719:ASN:HB2	1:A:828:LEU:CD2	2.29	0.62
1:C:657:GLN:HB3	1:C:658:ILE:HD12	1.82	0.62
1:C:899:PHE:HD1	1:C:899:PHE:N	1.96	0.62
1:C:530:SER:O	1:C:534:ILE:HG23	1.99	0.62
1:A:113:LEU:CD2	1:C:128:SER:HA	2.27	0.62
1:C:703:LEU:O	1:C:706:ALA:HB3	2.00	0.62
1:B:921:LEU:CD2	1:B:1005:THR:HG22	2.30	0.62
1:A:713:LEU:HB3	1:A:831:ALA:O	1.99	0.62
1:C:143:ILE:CG2	1:C:284:GLN:HE22	2.08	0.62
1:A:513:PHE:CD1	1:A:517:ASN:ND2	2.63	0.62
1:C:578:LEU:HD22	1:C:661:ALA:CB	2.30	0.62
1:C:259:ARG:CB	1:C:259:ARG:HH11	2.13	0.62
1:C:167:SER:H	1:C:175:VAL:HG21	1.64	0.61
1:C:417:GLU:HB3	1:C:973:ARG:HH12	1.64	0.61
1:C:184:MET:HG2	1:C:246:PHE:CE1	2.35	0.61
1:A:709:HIS:N	1:A:710:PRO:HD3	2.14	0.61
1:C:693:GLU:O	1:C:694:LYS:C	2.38	0.61
1:C:164:ASP:O	1:C:168:ARG:HG3	1.99	0.61
1:B:978:THR:CG2	1:B:979:SER:N	2.62	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:345:VAL:O	1:C:348:ILE:HG12	2.00	0.61
1:C:418:ARG:NE	1:C:970:MET:HE2	2.15	0.61
1:B:49:TYR:HE2	1:B:125:GLN:HB3	1.65	0.61
1:A:61:VAL:HG13	1:A:118:LEU:HD13	1.81	0.61
1:B:109:ASN:HD22	1:B:112:GLN:NE2	1.98	0.61
1:C:54:ALA:HB2	1:C:84:SER:CB	2.20	0.61
1:A:950:LYS:O	1:A:951:ASP:CB	2.47	0.61
1:C:344:LEU:HD22	1:C:402:ILE:HD11	1.82	0.61
1:B:184:MET:HB3	1:B:771:VAL:HG22	1.82	0.61
1:B:280:GLU:CB	1:B:284:GLN:O	2.48	0.61
1:A:340:VAL:HG13	1:A:399:VAL:HG21	1.83	0.61
1:B:585:GLU:O	1:B:588:GLN:N	2.32	0.61
1:C:410:ILE:HG22	1:C:411:VAL:H	1.65	0.61
1:B:673:GLU:HA	1:B:673:GLU:OE1	2.00	0.61
1:C:607:GLU:O	1:C:607:GLU:HG3	2.00	0.61
1:C:305:ALA:O	1:C:309:GLU:N	2.33	0.61
1:C:310:LEU:O	1:C:313:MET:N	2.31	0.61
1:C:62:THR:HG23	1:C:90:ILE:CD1	2.28	0.61
1:C:115:MET:HE2	1:C:115:MET:HA	1.83	0.61
1:C:705:GLU:O	1:C:707:ALA:N	2.33	0.61
1:A:909:VAL:HG12	1:A:913:LEU:HD23	1.81	0.61
1:A:950:LYS:HA	1:A:953:MET:HB3	1.80	0.61
1:B:697:GLN:O	1:B:699:ARG:O	2.18	0.61
1:B:703:LEU:HA	1:B:706:ALA:HB3	1.82	0.61
1:A:367:ILE:HG13	1:A:368:PRO:HD3	1.83	0.61
1:B:280:GLU:HB2	1:B:284:GLN:O	2.01	0.61
1:A:44:THR:CG2	1:A:89:GLN:HG3	2.31	0.61
1:C:600:THR:OG1	1:C:601:LYS:N	2.34	0.61
1:A:481:SER:O	1:A:484:VAL:N	2.32	0.61
1:C:131:LYS:HB2	1:C:295:THR:CG2	2.30	0.61
1:C:57:VAL:CG1	1:C:88:VAL:CG2	2.79	0.61
1:A:554:TYR:CE1	1:A:558:ARG:HD3	2.36	0.61
1:C:431:THR:HG21	1:C:494:ALA:CB	2.28	0.61
1:A:563:PHE:O	1:A:564:LEU:HD12	2.00	0.61
1:B:115:MET:HA	1:B:115:MET:CE	2.30	0.61
1:A:48:SER:HB2	1:A:125:GLN:HG3	1.83	0.61
1:A:544:LEU:O	1:A:547:ILE:HB	2.01	0.61
1:A:897:ILE:N	1:A:898:PRO:HD2	2.15	0.61
1:A:154:ILE:CG2	1:A:287:SER:HB3	2.27	0.61
1:B:975:ILE:H	1:B:975:ILE:HD12	1.65	0.61
1:B:646:ALA:O	1:B:647:ILE:C	2.38	0.61
1:C:161:ASN:N	1:C:164:ASP:OD2	2.34	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:187:TRP:O	1:B:266:ALA:HA	2.01	0.61
1:B:7:ASP:C	1:B:8:ARG:HD2	2.21	0.61
1:C:911:GLY:CA	1:C:1013:THR:HG21	2.31	0.61
1:C:160:ALA:C	1:C:164:ASP:OD2	2.39	0.61
1:B:310:LEU:O	1:B:314:GLU:HG3	2.01	0.61
1:A:324:VAL:HG12	1:A:325:TYR:N	2.15	0.61
1:B:517:ASN:C	1:B:521:GLU:HG3	2.22	0.61
1:C:453:PHE:O	1:C:456:MET:HG2	2.00	0.61
1:B:775:SER:HB3	1:B:780:ARG:CD	2.30	0.61
1:B:143:ILE:HD12	1:B:322:LYS:HB3	1.83	0.61
1:B:709:HIS:N	1:B:710:PRO:HD3	2.15	0.61
1:C:688:ALA:C	1:C:690:LEU:H	2.04	0.60
1:C:699:ARG:HG2	1:C:825:MET:HE1	1.82	0.60
1:C:851:LEU:HD12	1:C:851:LEU:N	2.16	0.60
1:C:908:GLY:HA2	1:C:1014:ALA:HB2	1.81	0.60
1:C:554:TYR:HD1	1:C:558:ARG:HH21	1.42	0.60
1:A:418:ARG:HH12	1:A:973:ARG:HB3	1.65	0.60
1:A:171:GLY:O	1:A:172:VAL:C	2.39	0.60
1:C:368:PRO:HG3	1:C:413:VAL:HG11	1.82	0.60
1:B:235:ILE:CD1	1:B:235:ILE:N	2.64	0.60
1:C:254:ASN:OD1	1:C:258:SER:O	2.19	0.60
1:B:543:VAL:O	1:B:547:ILE:CD1	2.49	0.60
1:B:314:GLU:HB2	1:B:315:PRO:HD3	1.82	0.60
1:A:713:LEU:O	1:A:714:THR:CG2	2.44	0.60
1:C:2:PRO:O	1:C:6:ILE:HG13	2.00	0.60
1:A:323:ILE:HG12	1:A:325:TYR:HE1	1.65	0.60
1:B:157:TYR:C	1:B:161:ASN:HD22	2.04	0.60
1:B:219:LEU:CD2	1:C:783:PRO:HG3	2.31	0.60
1:B:143:ILE:HG23	1:B:286:ALA:HB2	1.84	0.60
1:A:58:GLN:HG3	1:A:63:GLN:HE22	1.66	0.60
1:A:391:ASN:H	1:A:394:THR:HG22	1.65	0.60
1:C:657:GLN:C	1:C:659:LYS:H	2.04	0.60
1:C:615:PHE:HD2	1:C:615:PHE:O	1.84	0.60
1:A:857:TYR:CD1	1:A:857:TYR:C	2.73	0.60
1:C:57:VAL:HG12	1:C:88:VAL:CG2	2.31	0.60
1:C:942:ALA:HA	1:C:945:ILE:HG22	1.84	0.60
1:C:576:VAL:HG21	1:C:591:LEU:HD22	1.83	0.60
1:C:266:ALA:O	1:C:267:LYS:C	2.40	0.60
1:A:51:GLY:O	1:C:215:ALA:HB1	2.01	0.60
1:A:719:ASN:C	1:A:719:ASN:ND2	2.49	0.60
1:A:643:LYS:O	1:A:647:ILE:HG13	2.01	0.60
1:A:108:GLN:CB	1:A:108:GLN:CD	2.66	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:591:LEU:CD1	1:B:611:ALA:HB1	2.31	0.60
1:C:552:MET:CE	1:C:909:VAL:HG21	2.31	0.60
1:C:291:ILE:HG22	1:C:291:ILE:O	1.99	0.60
1:C:897:ILE:HG12	1:C:950:LYS:HE3	1.82	0.60
1:A:905:VAL:O	1:A:909:VAL:HG23	2.00	0.60
1:C:560:PRO:O	1:C:922:THR:HG22	2.01	0.60
1:A:246:PHE:O	1:A:249:ILE:CD1	2.49	0.60
1:C:10:ILE:O	1:C:10:ILE:HG22	2.00	0.60
1:A:425:LEU:HB3	1:A:426:PRO:HD2	1.82	0.60
1:C:663:VAL:O	1:C:664:PHE:HB3	2.02	0.60
1:A:10:ILE:HD11	1:B:895:TRP:CB	2.29	0.60
1:C:1024:VAL:HG12	1:C:1028:VAL:CG2	2.32	0.60
1:C:933:THR:O	1:C:937:LEU:HB2	2.02	0.60
1:C:485:ALA:O	1:C:490:PRO:HD3	2.02	0.60
1:B:574:THR:HG23	1:B:665:ALA:CB	2.22	0.60
1:B:808:ARG:CB	1:B:808:ARG:HH21	2.15	0.60
1:A:758:TYR:CG	1:A:758:TYR:O	2.55	0.60
1:C:308:ALA:O	1:C:311:ALA:HB3	2.02	0.60
1:C:758:TYR:HB3	1:C:772:TYR:CE2	2.36	0.60
1:A:540:ARG:HD2	1:A:541:TYR:CE2	2.37	0.60
1:A:952:LEU:HD12	1:A:953:MET:N	2.17	0.60
1:A:728:LYS:HD2	1:C:235:ILE:HG22	1.84	0.60
1:A:583:THR:HG22	1:A:585:GLU:N	2.17	0.60
1:A:171:GLY:O	1:A:294:ALA:HB2	2.02	0.60
1:A:827:ILE:N	1:A:827:ILE:HD12	2.16	0.60
1:C:236:ALA:O	1:C:237:GLN:C	2.40	0.60
1:C:790:TYR:CD1	1:C:800:PRO:HB3	2.37	0.60
1:A:54:ALA:HB1	1:A:816:LEU:CG	2.24	0.60
1:B:3:ASN:N	1:B:6:ILE:HG12	2.13	0.60
1:C:684:LEU:HD11	1:C:855:VAL:CG1	2.32	0.60
1:B:418:ARG:HH21	1:B:970:MET:CG	2.14	0.60
1:B:207:ILE:HG21	1:B:759:VAL:HG11	1.82	0.60
1:A:699:ARG:NH2	1:A:722:GLU:OE1	2.35	0.60
1:A:17:ILE:HG22	1:A:21:LEU:CD2	2.31	0.60
1:C:166:ILE:O	1:C:172:VAL:HG11	2.02	0.59
1:A:528:THR:CG2	1:A:969:ARG:HE	2.10	0.59
1:B:214:VAL:HG21	1:C:747:ASN:ND2	2.16	0.59
1:B:623:ASN:C	1:B:623:ASN:ND2	2.53	0.59
1:C:590:VAL:O	1:C:592:ASN:O	2.20	0.59
1:A:196:PHE:O	1:A:197:GLN:HB2	2.03	0.59
1:A:68:ASN:CB	1:A:68:ASN:N	2.65	0.59
1:C:886:LEU:O	1:C:890:ALA:HB2	2.02	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:431:THR:HG21	1:B:493:CYS:HB2	1.84	0.59
1:B:346:GLU:OE1	1:B:988:PRO:CB	2.48	0.59
1:C:911:GLY:HA3	1:C:1013:THR:CG2	2.32	0.59
1:C:912:ALA:C	1:C:914:LEU:H	2.04	0.59
1:C:140:VAL:O	1:C:288:GLY:HA3	2.02	0.59
1:C:200:PRO:HG2	1:C:749:THR:HA	1.83	0.59
1:B:776:GLU:HG2	1:B:777:ALA:N	2.17	0.59
1:C:540:ARG:HE	1:C:541:TYR:HE1	1.47	0.59
1:B:560:PRO:CB	1:B:836:SER:HB3	2.32	0.59
1:C:211:ASN:C	1:C:211:ASN:HD22	2.05	0.59
1:B:952:LEU:HA	1:B:956:GLU:OE2	2.02	0.59
1:B:907:LEU:O	1:B:909:VAL:N	2.35	0.59
1:B:975:ILE:HD12	1:B:975:ILE:N	2.17	0.59
1:C:847:LEU:O	1:C:850:LYS:HG2	2.03	0.59
1:B:692:HIS:O	1:B:693:GLU:HG3	2.02	0.59
1:A:26:ALA:O	1:A:30:LEU:HG	2.02	0.59
1:A:795:ASP:OD1	1:A:797:GLN:HG2	2.03	0.59
1:C:84:SER:C	1:C:86:GLY:N	2.56	0.59
1:A:548:ILE:CG2	1:A:910:ILE:HG12	2.32	0.59
1:A:571:VAL:CG1	1:A:630:SER:HA	2.30	0.59
1:B:281:PHE:CE2	1:B:324:VAL:HG11	2.37	0.59
1:A:10:ILE:CD1	1:B:895:TRP:HB2	2.29	0.59
1:C:262:LEU:CD2	1:C:268:ILE:HD11	2.33	0.59
1:A:321:LEU:CD1	2:A:1061:HOH:O	2.49	0.59
1:C:352:PHE:HA	1:C:369:THR:CG2	2.33	0.59
1:B:330:THR:H	1:B:331:PRO:CD	2.14	0.59
1:A:269:GLU:HG3	1:A:270:LEU:O	2.03	0.59
1:A:115:MET:C	1:A:117:LEU:N	2.56	0.59
1:C:951:ASP:C	1:C:953:MET:N	2.48	0.59
1:C:14:VAL:HG13	1:C:15:ILE:H	1.66	0.59
1:A:435:MET:HA	1:A:438:ILE:CD1	2.32	0.59
1:B:754:TRP:CZ2	1:B:786:ILE:HG12	2.37	0.59
1:C:72:ILE:CG2	1:C:94:PHE:CE2	2.83	0.59
1:A:223:PRO:HD3	1:B:275:TYR:HB2	1.84	0.59
1:B:568:ASP:O	1:B:634:TRP:CH2	2.55	0.59
1:A:166:ILE:O	1:A:168:ARG:N	2.36	0.59
1:A:687:GLN:HB3	1:A:854:GLY:O	2.03	0.59
1:B:1024:VAL:HG12	1:B:1028:VAL:HG21	1.84	0.59
1:B:980:LEU:HD23	1:B:983:ILE:HD12	1.83	0.59
1:B:371:ALA:HA	1:B:374:VAL:HG12	1.84	0.59
1:C:185:ARG:HD3	1:C:272:GLY:O	2.01	0.59
1:A:576:VAL:HG11	1:A:591:LEU:HD23	1.84	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:563:PHE:HB2	1:B:866:GLU:HG2	1.85	0.59
1:A:644:VAL:C	1:A:646:ALA:H	2.06	0.59
1:B:99:ASP:C	1:B:99:ASP:OD2	2.39	0.59
1:B:1024:VAL:O	1:B:1025:PHE:HB2	2.03	0.59
1:A:534:ILE:HD12	1:A:540:ARG:HH22	1.68	0.59
1:C:414:GLU:OE2	1:C:977:MET:SD	2.61	0.59
1:A:886:LEU:HD21	1:C:17:ILE:CG2	2.31	0.59
1:A:282:ASN:ND2	1:A:609:VAL:H	2.00	0.59
1:C:94:PHE:O	1:C:95:GLU:O	2.20	0.59
1:A:166:ILE:O	1:A:169:THR:HG23	2.03	0.59
1:B:196:PHE:O	1:B:197:GLN:HB2	2.03	0.59
1:A:49:TYR:HE2	1:A:121:GLU:HG2	1.68	0.59
1:B:6:ILE:HD12	1:B:491:ALA:N	2.17	0.59
1:B:652:THR:O	1:B:656:SER:HB3	2.02	0.59
1:A:467:TYR:HE1	1:A:925:VAL:CG2	2.15	0.59
1:B:860:THR:CG2	1:B:861:GLY:N	2.66	0.59
1:A:90:ILE:O	1:A:90:ILE:CG2	2.50	0.59
1:B:606:VAL:HA	1:B:631:LEU:HD23	1.84	0.59
1:A:857:TYR:CD1	1:A:857:TYR:O	2.55	0.59
1:A:30:LEU:HD21	1:A:384:ALA:HB2	1.85	0.59
1:C:60:THR:HG23	1:C:60:THR:O	2.00	0.59
1:C:547:ILE:O	1:C:550:VAL:HG12	2.03	0.59
1:C:972:LEU:N	1:C:974:PRO:HD2	2.17	0.59
1:C:459:PHE:O	1:C:460:GLY:O	2.19	0.59
1:C:925:VAL:O	1:C:927:PHE:N	2.35	0.59
1:B:231:ASN:C	1:B:231:ASN:HD22	2.06	0.59
1:A:709:HIS:H	1:A:710:PRO:HD3	1.68	0.59
1:A:193:LEU:HD12	1:A:265:VAL:CG1	2.32	0.59
1:B:876:LEU:CD1	1:B:932:LEU:HD11	2.27	0.58
1:A:961:ILE:O	1:A:965:LEU:HD23	2.02	0.58
1:B:986:VAL:HG12	1:B:990:VAL:HG23	1.85	0.58
1:C:545:TYR:HH	1:C:1021:PHE:CB	2.16	0.58
1:C:907:LEU:O	1:C:910:ILE:HG22	2.03	0.58
1:C:919:ARG:HB3	1:C:921:LEU:HD23	1.83	0.58
1:C:987:MET:HB3	1:C:988:PRO:CD	2.33	0.58
1:A:5:PHE:HD1	1:A:12:ALA:HB2	1.64	0.58
1:A:702:LEU:HD11	1:A:844:MET:CE	2.32	0.58
1:C:553:ALA:O	1:C:557:VAL:HG23	2.03	0.58
1:A:855:VAL:CG2	1:A:855:VAL:O	2.51	0.58
1:B:921:LEU:HD23	1:B:1005:THR:O	2.03	0.58
1:B:851:LEU:N	1:B:852:PRO:CD	2.65	0.58
1:A:185:ARG:O	1:A:186:ILE:HG13	2.02	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:277:ILE:O	1:A:277:ILE:CG2	2.43	0.58
1:C:162:MET:CG	1:C:313:MET:HE2	2.24	0.58
1:C:91:THR:CB	1:C:91:THR:C	2.68	0.58
1:C:15:ILE:O	1:C:16:ALA:C	2.41	0.58
1:B:48:SER:N	1:B:49:TYR:CE1	2.62	0.58
1:B:80:SER:HB2	1:B:90:ILE:HG23	1.84	0.58
1:A:375:VAL:O	1:A:379:THR:HG23	2.02	0.58
1:C:726:GLN:NE2	1:C:812:GLY:HA3	2.18	0.58
1:C:181:GLN:OE1	1:C:767:ARG:NH2	2.37	0.58
1:B:13:TRP:HA	1:B:13:TRP:CE3	2.37	0.58
1:A:190:PRO:HG3	1:A:789:TRP:CZ2	2.38	0.58
1:B:200:PRO:CD	1:B:749:THR:HG22	2.30	0.58
1:A:13:TRP:O	1:A:17:ILE:HG13	2.03	0.58
1:A:124:GLN:HG2	1:A:758:TYR:HE2	1.67	0.58
1:B:472:ILE:HG23	1:B:473:THR:H	1.68	0.58
1:A:685:ILE:HG22	1:A:687:GLN:N	2.18	0.58
1:C:327:TYR:CB	1:C:628:PHE:HB3	2.33	0.58
1:B:456:MET:HA	1:B:876:LEU:HD21	1.86	0.58
1:C:786:ILE:O	1:C:786:ILE:CG2	2.51	0.58
1:C:847:LEU:H	1:C:847:LEU:HD22	1.69	0.58
1:B:842:GLU:O	1:B:846:GLN:HG3	2.04	0.58
1:C:414:GLU:OE1	1:C:977:MET:HE1	2.03	0.58
1:B:646:ALA:C	1:B:648:THR:H	2.05	0.58
1:A:60:THR:HG22	1:A:119:PRO:CD	2.33	0.58
1:A:1:MET:N	1:A:2:PRO:CD	2.66	0.58
1:B:328:ASP:CB	2:B:1059:HOH:O	2.48	0.58
1:A:135:SER:O	1:A:136:PHE:CD2	2.56	0.58
1:A:69:MET:HA	1:A:69:MET:HE2	1.84	0.58
1:C:844:MET:HA	1:C:847:LEU:CD2	2.34	0.58
1:A:780:ARG:HG2	1:A:780:ARG:HH11	1.68	0.58
1:B:30:LEU:HD23	1:B:390:ILE:HG13	1.85	0.58
1:B:230:LEU:HD21	1:C:809:TRP:HH2	1.64	0.58
1:B:601:LYS:C	1:B:603:LYS:H	2.07	0.58
1:B:309:GLU:O	1:B:312:LYS:N	2.36	0.58
1:A:528:THR:O	1:A:532:GLY:N	2.35	0.58
1:B:602:GLU:C	1:B:604:ASN:H	2.06	0.58
1:A:588:GLN:HG2	1:A:613:ASN:ND2	2.19	0.58
1:C:762:PHE:H	1:C:771:VAL:CG2	2.17	0.58
1:C:102:ILE:HG22	1:C:103:ALA:N	2.13	0.58
1:C:928:GLN:OE1	1:C:928:GLN:N	2.37	0.58
1:B:420:MET:HE2	1:B:425:LEU:HA	1.86	0.58
1:B:219:LEU:CD1	1:B:234:ILE:HG12	2.33	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:463:THR:O	1:A:465:ALA:N	2.36	0.58
1:C:169:THR:O	1:C:170:SER:C	2.42	0.58
1:B:975:ILE:H	1:B:975:ILE:CD1	2.17	0.58
1:C:686:ASP:CG	1:C:690:LEU:HB2	2.23	0.58
1:C:497:LEU:CD1	1:C:498:LYS:H	2.17	0.58
1:B:850:LYS:C	1:B:852:PRO:HD3	2.24	0.58
1:B:419:VAL:O	1:B:426:PRO:HG3	2.04	0.58
1:A:488:LEU:O	1:A:492:LEU:HB2	2.04	0.58
1:C:1028:VAL:HG12	1:C:1032:ARG:NH1	2.18	0.58
1:A:292:LYS:O	1:A:293:LEU:O	2.22	0.58
1:B:911:GLY:CA	1:B:1013:THR:HG21	2.30	0.57
1:B:403:GLY:O	1:B:404:LEU:HD23	2.04	0.57
1:B:531:VAL:CG1	1:B:965:LEU:HD21	2.34	0.57
1:C:489:THR:N	1:C:490:PRO:HD2	2.18	0.57
1:B:369:THR:O	1:B:373:PRO:HD3	2.04	0.57
1:C:185:ARG:HG3	1:C:271:GLY:CA	2.32	0.57
1:B:644:VAL:HG23	1:B:645:GLU:N	2.18	0.57
1:C:885:PHE:CD1	1:C:886:LEU:N	2.72	0.57
1:C:832:ALA:HB1	1:C:833:PRO:HD2	1.85	0.57
1:A:1021:PHE:O	1:A:1024:VAL:HB	2.04	0.57
1:C:220:GLY:CA	1:C:231:ASN:HD22	2.15	0.57
1:A:401:ALA:HB2	1:A:474:ILE:HG12	1.86	0.57
1:C:277:ILE:HD11	1:C:620:ARG:NH2	2.18	0.57
1:B:472:ILE:HG23	1:B:473:THR:N	2.20	0.57
1:B:24:GLY:HA2	1:B:27:ILE:HG23	1.85	0.57
1:C:719:ASN:N	1:C:719:ASN:OD1	2.37	0.57
1:A:164:ASP:OD1	1:A:164:ASP:N	2.35	0.57
1:C:314:GLU:O	1:C:317:PHE:CE2	2.57	0.57
1:B:485:ALA:HA	1:B:489:THR:HB	1.86	0.57
1:C:685:ILE:HD11	1:C:687:GLN:CA	2.33	0.57
1:C:399:VAL:HA	1:C:402:ILE:HD11	1.84	0.57
1:C:721:LEU:HD12	1:C:815:ARG:O	2.04	0.57
1:C:66:GLU:OE2	1:C:818:ARG:HD3	2.05	0.57
1:A:600:THR:O	1:A:601:LYS:HB2	2.05	0.57
1:B:115:MET:CE	1:B:127:VAL:HG21	2.32	0.57
1:A:139:VAL:O	1:A:139:VAL:HG22	2.04	0.57
1:A:843:LEU:HA	1:A:846:GLN:HE21	1.66	0.57
1:C:57:VAL:O	1:C:61:VAL:HB	2.03	0.57
1:B:531:VAL:HA	1:B:534:ILE:HG12	1.86	0.57
1:C:831:ALA:HB2	1:C:840:ALA:HB2	1.85	0.57
1:B:640:GLU:OE2	1:B:640:GLU:N	2.38	0.57
1:B:65:ILE:HD11	1:B:118:LEU:HD21	1.87	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:194:ASN:ND2	1:A:790:TYR:CD2	2.72	0.57
1:B:211:ASN:ND2	1:B:246:PHE:CZ	2.71	0.57
1:A:182:TYR:HB3	1:A:270:LEU:HD12	1.85	0.57
1:B:873:ALA:O	1:B:875:SER:N	2.36	0.57
1:B:873:ALA:C	1:B:875:SER:H	2.08	0.57
1:C:124:GLN:HB3	1:C:758:TYR:HE2	1.68	0.57
1:A:655:PHE:C	1:A:656:SER:O	2.41	0.57
1:B:49:TYR:CE2	1:B:122:VAL:HA	2.40	0.57
1:B:663:VAL:O	1:B:663:VAL:HG12	2.05	0.57
1:A:644:VAL:C	1:A:646:ALA:N	2.58	0.57
1:A:318:PRO:O	1:A:319:SER:C	2.42	0.57
1:A:822:LEU:CB	1:A:823:PRO:HD2	2.22	0.57
1:C:105:VAL:HG12	1:C:106:GLN:N	2.18	0.57
1:B:940:LYS:HZ1	1:B:978:THR:HG23	1.69	0.57
1:A:911:GLY:N	1:A:914:LEU:HD13	2.19	0.57
1:C:548:ILE:HD12	1:C:549:VAL:H	1.67	0.57
1:C:214:VAL:HG12	1:C:215:ALA:H	1.67	0.57
1:B:622:GLN:O	1:B:622:GLN:CG	2.53	0.57
1:A:345:VAL:O	1:A:349:ILE:HD13	2.05	0.57
1:C:50:PRO:HD3	1:C:125:GLN:HG3	1.86	0.57
1:C:92:LEU:HD12	1:C:92:LEU:N	2.19	0.57
1:B:1013:THR:HG23	1:B:1013:THR:O	2.05	0.57
1:B:910:ILE:O	1:B:914:LEU:HG	2.05	0.57
1:A:983:ILE:HD12	1:A:983:ILE:C	2.24	0.57
1:B:847:LEU:H	1:B:847:LEU:HD23	1.69	0.57
1:A:228:GLN:HG2	1:B:781:MET:SD	2.45	0.57
1:A:188:MET:HA	1:A:266:ALA:HB2	1.86	0.57
1:B:1015:THR:O	1:B:1018:ALA:HB3	2.05	0.57
1:B:945:ILE:HD11	1:B:1026:PHE:CE2	2.39	0.57
1:B:431:THR:CG2	1:B:493:CYS:CB	2.74	0.57
1:C:699:ARG:CD	1:C:703:LEU:HD11	2.32	0.57
1:A:907:LEU:O	1:A:910:ILE:HG13	2.05	0.57
1:C:549:VAL:C	1:C:551:GLY:N	2.56	0.57
1:A:927:PHE:CE2	1:A:931:LEU:HD22	2.39	0.57
1:B:966:ASP:O	1:B:970:MET:HB2	2.04	0.57
1:A:583:THR:O	1:A:584:GLN:C	2.43	0.57
1:C:644:VAL:HG11	1:C:667:ASN:HB2	1.87	0.57
1:A:45:ILE:HB	1:A:90:ILE:HB	1.86	0.57
1:B:439:GLN:HA	1:B:442:LEU:CD1	2.34	0.57
1:B:57:VAL:HG23	1:B:58:GLN:H	1.68	0.57
1:C:699:ARG:CG	1:C:699:ARG:NH1	2.42	0.56
1:C:189:ASN:HD22	1:C:189:ASN:C	2.08	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:649:MET:O	1:A:653:ARG:NE	2.37	0.56
1:A:325:TYR:CD1	1:A:325:TYR:N	2.70	0.56
1:C:229:GLN:O	1:C:230:LEU:HB3	2.05	0.56
1:A:170:SER:OG	1:A:170:SER:O	2.23	0.56
1:B:845:GLU:HG2	1:B:857:TYR:OH	2.03	0.56
1:B:210:GLN:HG3	1:B:249:ILE:HG23	1.86	0.56
1:B:193:LEU:HD22	1:B:198:LEU:O	2.05	0.56
1:C:897:ILE:N	1:C:898:PRO:HD2	2.20	0.56
1:A:282:ASN:ND2	1:A:599:LEU:HD11	2.20	0.56
1:B:785:ASP:O	1:B:787:GLY:N	2.38	0.56
1:B:651:ALA:O	1:B:655:PHE:CE2	2.58	0.56
1:A:926:TYR:CE1	1:A:999:ALA:HB2	2.39	0.56
1:C:123:GLN:O	1:C:125:GLN:N	2.37	0.56
1:C:311:ALA:O	1:C:313:MET:N	2.39	0.56
1:C:58:GLN:OE1	1:C:82:SER:CB	2.54	0.56
1:B:941:ASN:HD22	1:B:1015:THR:HA	1.70	0.56
1:B:221:GLY:HA3	1:C:780:ARG:HH11	1.71	0.56
1:A:400:LEU:HG	1:A:929:VAL:HG12	1.87	0.56
1:C:418:ARG:C	1:C:420:MET:N	2.50	0.56
1:C:527:TYR:OH	1:C:1019:ILE:HG13	2.05	0.56
1:A:162:MET:CE	1:A:310:LEU:HD22	2.36	0.56
1:C:988:PRO:O	1:C:989:LEU:C	2.43	0.56
1:A:516:PHE:CD1	1:A:517:ASN:N	2.73	0.56
1:B:585:GLU:O	1:B:586:ARG:C	2.42	0.56
1:B:913:LEU:O	1:B:917:THR:OG1	2.19	0.56
1:A:11:PHE:O	1:A:14:VAL:N	2.38	0.56
1:A:191:ASN:C	1:A:193:LEU:H	2.07	0.56
1:A:191:ASN:O	1:A:193:LEU:N	2.39	0.56
1:A:252:LYS:HB3	1:A:260:VAL:HG21	1.87	0.56
1:C:274:ASN:ND2	2:C:1057:HOH:O	2.26	0.56
1:C:379:THR:CG2	1:C:477:ALA:HB2	2.36	0.56
1:C:912:ALA:C	1:C:914:LEU:N	2.59	0.56
1:B:639:GLY:HA2	1:B:643:LYS:NZ	2.20	0.56
1:A:394:THR:HG23	1:A:395:MET:HE2	1.88	0.56
1:A:726:GLN:N	1:A:810:GLU:O	2.38	0.56
1:A:298:ASN:HB3	1:A:301:ASP:OD1	2.05	0.56
1:C:601:LYS:O	1:C:603:LYS:N	2.37	0.56
1:C:953:MET:HE1	1:C:1030:ARG:NH2	2.21	0.56
1:A:911:GLY:HA2	1:A:914:LEU:HD13	1.86	0.56
1:A:400:LEU:HD11	1:A:1003:VAL:HG13	1.80	0.56
1:C:391:ASN:O	1:C:392:THR:C	2.44	0.56
1:B:571:VAL:O	1:B:572:PHE:HB3	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:428:LYS:HG3	1:A:429:GLU:N	2.20	0.56
1:A:456:MET:O	1:A:457:ALA:HB3	2.05	0.56
1:A:223:PRO:HD3	1:B:275:TYR:CG	2.39	0.56
1:A:60:THR:CG2	1:A:119:PRO:HG3	2.34	0.56
1:C:764:ASP:OD2	1:C:765:ARG:CD	2.53	0.56
1:C:306:ILE:O	1:C:309:GLU:N	2.38	0.56
1:C:56:THR:O	1:C:60:THR:HB	2.06	0.56
1:C:91:THR:CA	1:C:91:THR:CG2	2.76	0.56
1:C:697:GLN:O	1:C:698:ALA:C	2.41	0.56
1:A:530:SER:O	1:A:534:ILE:HG12	2.06	0.56
1:A:263:ARG:HB3	1:A:263:ARG:NH2	2.20	0.56
1:C:5:PHE:CE2	1:C:11:PHE:HD2	2.22	0.56
1:C:5:PHE:CD2	1:C:12:ALA:HB2	2.41	0.56
1:C:868:LEU:O	1:C:869:SER:HB3	2.06	0.56
1:B:47:ALA:HB3	1:B:88:VAL:CB	2.31	0.56
1:A:717:ARG:NH1	1:A:830:GLN:HE22	2.02	0.56
1:C:764:ASP:CG	1:C:765:ARG:HD2	2.24	0.56
1:A:268:ILE:N	1:A:268:ILE:HD12	2.20	0.56
1:A:102:ILE:O	1:A:102:ILE:HG23	2.01	0.56
1:C:62:THR:HG21	1:C:80:SER:HB3	1.88	0.56
1:A:897:ILE:O	1:A:900:SER:OG	2.20	0.56
1:C:427:PRO:O	1:C:431:THR:HG22	2.06	0.56
1:B:48:SER:HA	1:B:87:THR:HA	1.86	0.56
1:A:199:THR:HB	1:A:200:PRO:CD	2.35	0.56
1:B:370:ILE:O	1:B:370:ILE:HG22	2.05	0.56
1:A:169:THR:O	1:A:172:VAL:HG22	2.06	0.56
1:C:409:ALA:O	1:C:413:VAL:HG12	2.04	0.56
1:A:690:LEU:HD11	1:A:854:GLY:C	2.26	0.56
1:A:687:GLN:HE22	1:A:856:GLY:HA3	1.70	0.56
1:B:104:GLN:CG	1:B:105:VAL:H	2.18	0.56
1:B:1026:PHE:HB3	1:B:1030:ARG:NH2	2.21	0.56
1:B:942:ALA:HA	1:B:1022:VAL:HG11	1.88	0.56
1:B:441:ALA:CB	1:B:947:GLU:HG2	2.13	0.56
1:A:911:GLY:HA3	1:A:1013:THR:CG2	2.32	0.56
1:A:901:VAL:HG13	1:A:942:ALA:HB3	1.87	0.56
1:B:701:GLN:HA	1:B:704:ALA:HB3	1.88	0.56
1:A:594:VAL:HA	1:A:655:PHE:CE2	2.41	0.56
1:B:110:LYS:O	1:B:111:LEU:C	2.40	0.56
1:B:591:LEU:HD12	1:B:611:ALA:HB1	1.87	0.56
1:B:681:ASP:O	1:B:859:TRP:HE3	1.88	0.56
1:B:25:LEU:C	1:B:27:ILE:H	2.09	0.56
1:C:102:ILE:HG22	1:C:106:GLN:HG3	1.88	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:186:ILE:HD13	1:B:262:LEU:HD13	1.88	0.56
1:B:1024:VAL:HG12	1:B:1025:PHE:N	2.21	0.56
1:B:905:VAL:N	1:B:906:PRO:HD2	2.21	0.56
1:A:255:GLN:O	1:A:256:ASP:CG	2.43	0.56
1:A:731:ILE:CD1	1:A:731:ILE:N	2.69	0.56
1:C:169:THR:CG2	1:C:169:THR:CA	2.79	0.56
1:C:894:SER:O	1:C:896:SER:N	2.39	0.56
1:C:950:LYS:H	1:C:953:MET:CE	2.13	0.56
1:C:3:ASN:HD21	1:C:432:ARG:CD	2.15	0.56
1:B:987:MET:CE	1:B:987:MET:CA	2.82	0.56
1:A:418:ARG:HH12	1:A:973:ARG:CB	2.18	0.56
1:B:278:ILE:HD11	1:B:584:GLN:NE2	2.20	0.56
1:A:188:MET:HA	1:A:266:ALA:CB	2.36	0.56
1:B:71:GLY:O	1:B:72:ILE:O	2.24	0.56
1:A:99:ASP:OD1	1:A:101:ASP:HB2	2.06	0.55
1:A:818:ARG:CG	2:A:1062:HOH:O	2.54	0.55
1:B:899:PHE:O	1:B:903:LEU:HG	2.06	0.55
1:C:847:LEU:CA	1:C:850:LYS:HD3	2.20	0.55
1:A:945:ILE:CG1	1:A:971:ARG:HG2	2.22	0.55
1:C:615:PHE:C	1:C:615:PHE:CD2	2.79	0.55
1:B:216:ALA:HB2	1:B:236:ALA:HB2	1.88	0.55
1:B:535:LEU:O	1:B:536:ARG:C	2.45	0.55
1:B:632:LYS:O	1:B:637:ARG:HD2	2.05	0.55
1:B:557:VAL:O	1:B:557:VAL:HG12	2.06	0.55
1:A:686:ASP:C	1:A:688:ALA:H	2.08	0.55
1:B:1027:VAL:O	1:B:1030:ARG:O	2.24	0.55
1:C:415:ASN:HA	1:C:418:ARG:NH1	2.21	0.55
1:C:525:HIS:O	1:C:529:ASP:N	2.38	0.55
1:B:699:ARG:O	1:B:701:GLN:N	2.38	0.55
1:A:699:ARG:NH1	1:A:722:GLU:OE1	2.36	0.55
1:A:298:ASN:ND2	1:A:300:LEU:N	2.49	0.55
1:B:419:VAL:HG12	1:B:419:VAL:O	2.06	0.55
1:B:146:ASP:O	1:B:148:THR:N	2.39	0.55
1:B:737:GLN:HG2	1:B:737:GLN:O	2.06	0.55
1:C:169:THR:N	1:C:169:THR:CB	2.62	0.55
1:A:961:ILE:O	1:A:965:LEU:CD2	2.54	0.55
1:C:192:GLU:O	1:C:194:ASN:N	2.39	0.55
1:C:910:ILE:HG23	1:C:911:GLY:N	2.22	0.55
1:C:457:ALA:HB1	1:C:468:ARG:CA	2.35	0.55
1:B:325:TYR:O	1:B:326:PRO:O	2.25	0.55
1:A:169:THR:O	1:A:170:SER:C	2.43	0.55
1:B:71:GLY:O	1:B:72:ILE:C	2.44	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:544:LEU:HD22	1:B:1021:PHE:HZ	1.72	0.55
1:B:485:ALA:HA	1:B:489:THR:CB	2.35	0.55
1:B:975:ILE:O	1:B:979:SER:HB2	2.07	0.55
1:A:367:ILE:HG13	1:A:368:PRO:CD	2.37	0.55
1:A:200:PRO:CD	1:A:749:THR:HG23	2.37	0.55
1:B:743:ILE:HA	1:B:746:ILE:HD12	1.88	0.55
1:B:941:ASN:ND2	1:B:1015:THR:HA	2.21	0.55
1:B:2:PRO:C	1:B:4:PHE:H	2.08	0.55
1:A:400:LEU:HG	1:A:929:VAL:CG1	2.36	0.55
1:B:713:LEU:HD13	1:B:843:LEU:HD13	1.88	0.55
1:A:325:TYR:HD1	1:A:325:TYR:N	2.04	0.55
1:A:29:LYS:HG2	1:A:29:LYS:O	2.07	0.55
1:B:356:TYR:O	1:B:358:PHE:N	2.39	0.55
1:B:545:TYR:O	1:B:547:ILE:N	2.40	0.55
1:C:824:SER:O	1:C:825:MET:HG2	2.06	0.55
1:A:548:ILE:HG23	1:A:910:ILE:HG12	1.87	0.55
1:A:901:VAL:HG13	1:A:942:ALA:CB	2.37	0.55
1:C:190:PRO:O	1:C:192:GLU:N	2.39	0.55
1:B:986:VAL:O	1:B:988:PRO:O	2.24	0.55
1:C:742:SER:O	1:C:746:ILE:HG13	2.07	0.55
1:B:807:SER:C	1:B:808:ARG:HG3	2.27	0.55
1:B:785:ASP:O	1:B:786:ILE:C	2.44	0.55
1:A:47:ALA:HB2	1:A:127:VAL:HG22	1.88	0.55
1:B:335:ILE:HG22	1:B:336:SER:N	2.20	0.55
1:C:598:TYR:HB3	1:C:606:VAL:HG11	1.88	0.55
1:C:819:TYR:O	1:C:820:ASN:HB2	2.05	0.55
1:B:165:ALA:O	1:B:166:ILE:C	2.45	0.55
1:C:767:ARG:O	1:C:769:LYS:HG2	2.07	0.55
1:B:493:CYS:O	1:B:494:ALA:CB	2.46	0.55
1:B:898:PRO:O	1:B:900:SER:N	2.40	0.55
1:A:1009:GLY:C	1:A:1011:MET:H	2.07	0.55
1:A:513:PHE:HD1	1:A:517:ASN:HD21	1.55	0.55
1:B:674:LEU:HD22	1:B:681:ASP:OD2	2.06	0.55
1:A:717:ARG:NH2	1:A:828:LEU:HG	2.22	0.55
1:A:68:ASN:N	1:A:69:MET:N	2.54	0.55
1:C:570:GLY:O	1:C:571:VAL:HG13	2.07	0.55
1:C:1030:ARG:HA	1:C:1033:PHE:HD2	1.72	0.55
1:B:947:GLU:O	1:B:951:ASP:HB2	2.06	0.55
1:C:383:LEU:HD11	1:C:394:THR:OG1	2.07	0.55
1:B:707:ALA:O	1:B:708:LYS:CB	2.51	0.55
1:C:533:GLY:O	1:C:536:ARG:HB2	2.07	0.55
1:A:815:ARG:HD2	2:A:1068:HOH:O	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:156:ASP:O	1:C:159:ALA:HB3	2.07	0.55
1:B:960:LEU:C	1:B:960:LEU:CD1	2.76	0.55
1:C:549:VAL:O	1:C:551:GLY:N	2.40	0.55
1:C:946:VAL:O	1:C:946:VAL:CG1	2.54	0.55
1:B:639:GLY:HA2	1:B:643:LYS:HZ3	1.70	0.55
1:A:916:ALA:O	1:A:919:ARG:O	2.25	0.55
1:C:456:MET:O	1:C:457:ALA:HB3	2.07	0.55
1:A:988:PRO:O	1:A:990:VAL:O	2.25	0.55
1:A:225:VAL:CG1	1:A:226:LYS:N	2.69	0.55
1:A:11:PHE:O	1:A:14:VAL:HG23	2.06	0.55
1:C:136:PHE:CE2	1:C:292:LYS:HE2	2.41	0.55
1:C:328:ASP:OD1	1:C:330:THR:HB	2.06	0.55
1:A:54:ALA:HB2	1:A:82:SER:O	2.07	0.55
1:C:87:THR:HG22	1:C:88:VAL:N	2.18	0.55
1:A:354:VAL:O	1:A:355:MET:HB3	2.08	0.55
1:C:778:LYS:C	1:C:779:TYR:CD2	2.80	0.55
1:C:778:LYS:HD2	1:C:779:TYR:CE2	2.38	0.55
1:A:10:ILE:HG21	1:B:893:GLU:HB2	1.88	0.55
1:C:210:GLN:OE1	1:C:249:ILE:HG23	2.06	0.55
1:B:570:GLY:N	1:B:634:TRP:CH2	2.75	0.55
1:A:14:VAL:HG11	1:B:886:LEU:O	2.06	0.55
1:B:59:ASP:HA	1:B:63:GLN:HB2	1.89	0.55
1:A:62:THR:O	1:A:63:GLN:O	2.24	0.54
1:A:689:GLY:O	1:A:690:LEU:O	2.25	0.54
1:B:534:ILE:HA	1:B:541:TYR:CE1	2.42	0.54
1:C:707:ALA:O	1:C:710:PRO:HD3	2.06	0.54
1:B:1001:ASN:O	1:B:1005:THR:HB	2.06	0.54
1:B:344:LEU:O	1:B:345:VAL:C	2.45	0.54
1:B:641:GLU:HA	1:B:650:ARG:HH12	1.72	0.54
1:B:362:PHE:O	1:B:364:ALA:N	2.40	0.54
1:B:228:GLN:HA	1:B:228:GLN:NE2	2.23	0.54
1:A:987:MET:N	1:A:988:PRO:CD	2.69	0.54
1:C:251:LEU:HB2	1:C:260:VAL:O	2.08	0.54
1:B:952:LEU:HD12	1:B:956:GLU:OE2	2.07	0.54
1:B:2:PRO:HG3	1:B:435:MET:HG2	1.87	0.54
1:C:190:PRO:HD2	1:C:779:TYR:CD1	2.42	0.54
1:B:897:ILE:HG13	1:B:898:PRO:HD3	1.89	0.54
1:C:847:LEU:O	1:C:851:LEU:HD11	2.07	0.54
1:A:310:LEU:HD12	1:A:325:TYR:OH	2.07	0.54
1:A:186:ILE:CB	1:A:773:VAL:HG23	2.34	0.54
1:B:372:VAL:HG22	1:B:373:PRO:CD	2.38	0.54
1:C:645:GLU:O	1:C:648:THR:HG22	2.08	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:860:THR:HG23	1:C:860:THR:O	2.07	0.54
1:A:740:GLY:O	1:A:793:ALA:HB1	2.08	0.54
1:B:7:ASP:O	1:B:8:ARG:CB	2.54	0.54
1:B:540:ARG:O	1:B:541:TYR:CD1	2.60	0.54
1:B:891:LEU:HD12	1:B:892:TYR:CE1	2.42	0.54
1:C:398:MET:O	1:C:402:ILE:HG13	2.07	0.54
1:C:475:VAL:CG1	1:C:476:SER:N	2.70	0.54
1:B:245:GLU:O	1:B:246:PHE:C	2.44	0.54
1:C:913:LEU:HD23	1:C:927:PHE:HZ	1.72	0.54
1:A:329:THR:O	1:A:329:THR:HG23	2.06	0.54
1:C:317:PHE:N	1:C:317:PHE:CD2	2.71	0.54
1:B:448:VAL:O	1:B:452:VAL:CG2	2.53	0.54
1:B:945:ILE:HD11	1:B:1026:PHE:CZ	2.42	0.54
1:B:399:VAL:HG11	1:B:989:LEU:HG	1.89	0.54
1:C:903:LEU:O	1:C:906:PRO:HD2	2.08	0.54
1:A:780:ARG:HG2	1:A:780:ARG:NH1	2.23	0.54
1:B:418:ARG:HE	1:B:970:MET:CE	2.21	0.54
1:B:131:LYS:O	1:B:132:SER:HB3	2.06	0.54
1:C:268:ILE:HG22	1:C:268:ILE:O	2.06	0.54
1:B:156:ASP:OD2	1:B:182:TYR:HB2	2.07	0.54
1:A:818:ARG:NE	1:A:818:ARG:HB2	2.19	0.54
1:A:104:GLN:NE2	1:B:109:ASN:HB3	2.22	0.54
1:B:940:LYS:O	1:B:943:ILE:N	2.41	0.54
1:B:979:SER:CB	1:B:1011:MET:HE3	2.38	0.54
1:C:851:LEU:HD12	1:C:851:LEU:H	1.73	0.54
1:C:477:ALA:H	1:C:480:LEU:HD23	1.72	0.54
1:B:706:ALA:HA	1:B:713:LEU:HD22	1.90	0.54
1:B:49:TYR:CE2	1:B:122:VAL:O	2.61	0.54
1:C:633:ASP:CG	1:C:633:ASP:O	2.45	0.54
1:C:144:ASN:HD21	1:C:149:MET:N	2.05	0.54
1:C:144:ASN:OD1	1:C:320:GLY:O	2.25	0.54
1:A:231:ASN:OD1	1:B:622:GLN:OE1	2.26	0.54
1:B:136:PHE:CE1	1:B:617:PHE:CZ	2.90	0.54
1:C:951:ASP:O	1:C:953:MET:N	2.38	0.54
1:B:1010:GLY:HA2	1:B:1013:THR:CG2	2.38	0.54
1:B:483:LEU:O	1:B:485:ALA:O	2.26	0.54
1:B:971:ARG:O	1:B:975:ILE:HD13	2.08	0.54
1:B:42:ALA:CB	1:B:93:THR:CG2	2.82	0.54
1:B:640:GLU:O	1:B:643:LYS:HB2	2.07	0.54
1:C:801:PHE:HA	1:C:804:PHE:CE1	2.42	0.54
1:C:731:ILE:HD13	1:C:805:SER:HB3	1.89	0.54
1:B:130:GLU:OE1	1:C:110:LYS:HE2	2.08	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:431:THR:OG1	1:B:494:ALA:HB2	2.07	0.54
1:C:713:LEU:HD21	1:C:835:LYS:N	2.19	0.54
1:A:203:VAL:HG13	1:A:262:LEU:CD1	2.37	0.54
1:C:461:GLY:HA3	1:C:869:SER:OG	2.07	0.54
1:B:750:LEU:HB2	1:B:801:PHE:CE1	2.42	0.54
1:A:843:LEU:O	1:A:846:GLN:N	2.40	0.54
1:A:736:ALA:HA	1:A:741:VAL:CG1	2.38	0.54
1:A:99:ASP:HB3	1:A:102:ILE:HG22	1.90	0.54
1:A:58:GLN:HG3	1:A:63:GLN:NE2	2.22	0.54
1:B:367:ILE:HG12	1:B:492:LEU:HD13	1.89	0.54
1:B:941:ASN:OD1	1:B:979:SER:OG	2.26	0.54
1:C:778:LYS:HG3	1:C:779:TYR:CE2	2.43	0.54
1:B:70:ASN:H	1:B:70:ASN:HD22	1.55	0.54
1:C:188:MET:CE	1:C:200:PRO:CB	2.82	0.54
1:A:172:VAL:HG23	1:A:172:VAL:O	2.08	0.54
1:C:578:LEU:HD21	1:C:590:VAL:HG21	1.90	0.54
1:C:861:GLY:H	1:C:864:TYR:HB2	1.73	0.54
1:C:241:THR:OG1	1:C:241:THR:O	2.25	0.54
1:C:137:LEU:HG	1:C:293:LEU:HB2	1.90	0.54
1:C:87:THR:HG23	1:C:88:VAL:N	2.22	0.54
1:A:1021:PHE:HB3	1:A:1025:PHE:CE1	2.43	0.54
1:B:885:PHE:CE2	1:B:898:PRO:HB2	2.42	0.54
1:B:372:VAL:HG22	1:B:373:PRO:HD3	1.90	0.54
1:B:740:GLY:HA3	1:B:794:ALA:HB2	1.90	0.54
1:A:65:ILE:O	1:A:68:ASN:OD1	2.26	0.54
1:C:115:MET:SD	1:C:127:VAL:HG11	2.48	0.54
1:A:966:ASP:O	1:A:969:ARG:HB2	2.08	0.54
1:C:682:PHE:HE2	1:C:702:LEU:HD11	1.73	0.54
1:C:924:ASP:O	1:C:925:VAL:O	2.25	0.54
1:C:966:ASP:HA	1:C:969:ARG:HB2	1.90	0.54
1:A:210:GLN:HG3	1:A:249:ILE:CG2	2.34	0.54
1:A:38:ILE:O	1:A:462:SER:HA	2.08	0.54
1:B:143:ILE:CD1	1:B:322:LYS:HB3	2.37	0.54
1:C:666:PHE:O	1:C:666:PHE:CD2	2.61	0.54
1:A:687:GLN:HA	2:A:1055:HOH:O	2.08	0.53
1:B:233:SER:OG	1:C:53:ASP:OD1	2.25	0.53
1:B:416:VAL:HG11	1:B:431:THR:CG2	2.36	0.53
1:B:537:SER:CA	1:B:540:ARG:HE	2.21	0.53
1:C:705:GLU:O	1:C:706:ALA:C	2.47	0.53
1:A:939:ALA:O	1:A:943:ILE:HG13	2.08	0.53
1:A:713:LEU:HB2	1:A:833:PRO:HD2	1.89	0.53
1:C:484:VAL:HG12	1:C:489:THR:HG23	1.90	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:119:PRO:HG2	1:B:122:VAL:HG23	1.90	0.53
1:B:832:ALA:N	1:B:833:PRO:HD2	2.22	0.53
1:B:925:VAL:HA	1:B:928:GLN:OE1	2.08	0.53
1:A:472:ILE:H	1:A:472:ILE:CD1	2.19	0.53
1:B:178:PHE:HA	1:B:277:ILE:HG21	1.88	0.53
1:A:138:MET:HE3	1:A:306:ILE:HB	1.89	0.53
1:A:43:VAL:HG11	1:A:107:VAL:HG21	1.91	0.53
1:A:58:GLN:NE2	1:A:816:LEU:HD13	2.23	0.53
1:A:68:ASN:CB	1:A:68:ASN:C	2.72	0.53
1:C:947:GLU:O	1:C:949:ALA:O	2.26	0.53
1:C:476:SER:O	1:C:477:ALA:HB3	2.08	0.53
1:A:575:MET:O	1:A:663:VAL:HA	2.08	0.53
1:C:186:ILE:O	1:C:188:MET:N	2.41	0.53
1:B:184:MET:HB2	1:B:762:PHE:CE2	2.44	0.53
1:C:410:ILE:O	1:C:412:VAL:N	2.40	0.53
1:C:714:THR:HG22	1:C:715:SER:N	2.22	0.53
1:B:146:ASP:O	1:B:147:GLY:C	2.44	0.53
1:A:764:ASP:HB3	1:A:769:LYS:HD2	1.90	0.53
1:A:116:PRO:HB3	1:C:123:GLN:HG3	1.91	0.53
1:B:525:HIS:CA	1:B:528:THR:HG22	2.38	0.53
1:A:344:LEU:HD22	1:A:376:LEU:HD11	1.89	0.53
1:C:753:ALA:HB1	1:C:789:TRP:CZ2	2.43	0.53
1:C:776:GLU:O	1:C:777:ALA:C	2.46	0.53
1:C:778:LYS:CD	1:C:779:TYR:HE2	2.19	0.53
1:C:35:TYR:CG	1:C:671:ILE:HG12	2.43	0.53
1:C:673:GLU:O	1:C:674:LEU:HB3	2.07	0.53
1:A:568:ASP:O	1:A:634:TRP:HH2	1.91	0.53
1:C:246:PHE:HZ	1:C:762:PHE:HB2	1.72	0.53
1:A:342:LYS:O	1:A:343:THR:C	2.46	0.53
1:A:694:LYS:O	1:A:698:ALA:HB2	2.08	0.53
1:A:638:PRO:HG2	1:A:639:GLY:H	1.73	0.53
1:C:616:GLY:HA3	1:C:619:GLY:O	2.08	0.53
1:A:818:ARG:HD3	1:A:822:LEU:N	2.23	0.53
1:C:103:ALA:O	1:C:105:VAL:N	2.41	0.53
1:C:949:ALA:C	1:C:951:ASP:H	2.11	0.53
1:B:989:LEU:HA	1:B:992:SER:HB2	1.90	0.53
1:C:915:ALA:O	1:C:919:ARG:N	2.40	0.53
1:A:752:ALA:O	1:A:774:MET:HG3	2.08	0.53
1:C:204:ILE:HG12	1:C:759:VAL:HG13	1.90	0.53
1:B:562:SER:HB3	1:B:922:THR:HG21	1.90	0.53
1:A:2:PRO:O	1:A:6:ILE:HG23	2.09	0.53
1:B:261:LEU:HD13	1:B:261:LEU:N	2.23	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:80:SER:O	1:C:81:ASN:HB3	2.08	0.53
1:A:402:ILE:O	1:A:405:LEU:HD13	2.08	0.53
1:B:395:MET:O	1:B:396:PHE:C	2.44	0.53
1:C:901:VAL:HG12	1:C:942:ALA:HB1	1.90	0.53
1:A:575:MET:SD	1:A:626:ILE:HG13	2.49	0.53
1:C:743:ILE:CD1	1:C:743:ILE:H	2.04	0.53
1:A:399:VAL:C	1:A:401:ALA:H	2.12	0.53
1:B:613:ASN:ND2	1:B:613:ASN:C	2.62	0.53
1:C:965:LEU:O	1:C:969:ARG:HB2	2.09	0.53
1:B:291:ILE:CG2	1:B:306:ILE:HD11	2.38	0.53
1:B:25:LEU:O	1:B:27:ILE:N	2.41	0.53
1:B:443:VAL:O	1:B:444:GLY:C	2.44	0.53
1:C:175:VAL:O	1:C:175:VAL:HG12	2.08	0.53
1:C:157:TYR:CE1	1:C:318:PRO:HD3	2.43	0.53
1:B:937:LEU:O	1:B:940:LYS:HB3	2.08	0.53
1:A:897:ILE:HG21	1:A:950:LYS:HE2	1.89	0.53
1:B:668:LEU:HD23	1:B:668:LEU:N	2.24	0.53
1:B:962:GLU:O	1:B:966:ASP:CB	2.48	0.53
1:B:58:GLN:HA	1:B:62:THR:HB	1.90	0.53
1:A:393:LEU:HD11	1:A:466:ILE:HG12	1.91	0.53
1:B:525:HIS:O	1:B:529:ASP:OD2	2.27	0.53
1:B:6:ILE:N	1:B:6:ILE:HD13	2.24	0.53
1:B:944:LEU:CB	1:B:975:ILE:HD11	2.39	0.53
1:A:1021:PHE:HB3	1:A:1025:PHE:CZ	2.44	0.53
1:A:901:VAL:HG11	1:A:943:ILE:CG1	2.38	0.53
1:A:443:VAL:CG1	1:A:444:GLY:N	2.65	0.53
1:C:914:LEU:O	1:C:915:ALA:HB3	2.09	0.53
1:C:17:ILE:CD1	1:C:17:ILE:N	2.71	0.53
1:A:780:ARG:NH2	1:C:223:PRO:HG2	2.24	0.53
1:C:674:LEU:HD11	1:C:862:MET:CA	2.31	0.53
1:A:472:ILE:CD1	1:A:472:ILE:N	2.72	0.53
1:A:911:GLY:H	1:A:914:LEU:CD1	2.20	0.53
1:A:884:VAL:HG12	1:A:902:MET:HE3	1.91	0.53
1:B:987:MET:N	1:B:988:PRO:CD	2.70	0.53
1:C:389:SER:HG	1:C:391:ASN:HD22	1.52	0.53
1:C:4:PHE:O	1:C:8:ARG:HG2	2.09	0.53
1:A:141:GLY:N	1:A:324:VAL:O	2.38	0.53
1:A:774:MET:O	1:A:775:SER:O	2.26	0.53
1:C:492:LEU:HA	1:C:495:THR:HB	1.91	0.53
1:A:444:GLY:O	1:A:448:VAL:HG23	2.09	0.53
1:C:564:LEU:CD2	1:C:671:ILE:HD12	2.39	0.53
1:A:143:ILE:HG21	1:A:281:PHE:CD2	2.44	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:868:LEU:O	1:C:869:SER:CB	2.57	0.53
1:B:586:ARG:HH22	1:B:660:ASP:HB2	1.74	0.53
1:C:155:SER:HB3	1:C:180:SER:H	1.74	0.53
1:A:64:VAL:O	1:A:68:ASN:OD1	2.27	0.52
1:B:401:ALA:O	1:B:404:LEU:N	2.41	0.52
1:C:699:ARG:HH11	1:C:699:ARG:HG3	1.67	0.52
1:A:649:MET:HE2	1:A:653:ARG:NH2	2.24	0.52
1:A:600:THR:O	1:A:600:THR:HG22	2.10	0.52
1:C:578:LEU:HB3	1:C:579:PRO:CD	2.35	0.52
1:B:541:TYR:C	1:B:543:VAL:H	2.12	0.52
1:C:404:LEU:CD2	1:C:937:LEU:HD13	2.40	0.52
1:C:997:SER:O	1:C:1000:GLN:N	2.42	0.52
1:B:613:ASN:HD22	1:B:614:GLY:CA	2.22	0.52
1:C:443:VAL:O	1:C:447:MET:HB2	2.09	0.52
1:A:739:LEU:HD22	1:A:739:LEU:H	1.74	0.52
1:A:61:VAL:HG22	1:A:118:LEU:HD22	1.90	0.52
1:C:177:LEU:HD13	1:C:179:GLY:O	2.09	0.52
1:A:1007:VAL:O	1:A:1011:MET:HB2	2.08	0.52
1:A:986:VAL:O	1:A:991:ILE:HD12	2.09	0.52
1:C:410:ILE:CG2	1:C:411:VAL:N	2.69	0.52
1:C:520:PHE:O	1:C:523:SER:OG	2.27	0.52
1:C:552:MET:O	1:C:553:ALA:CB	2.56	0.52
1:C:841:MET:O	1:C:845:GLU:HG3	2.10	0.52
1:B:961:ILE:O	1:B:965:LEU:HB2	2.09	0.52
1:A:902:MET:O	1:A:904:VAL:N	2.43	0.52
1:C:6:ILE:HA	1:C:491:ALA:HB2	1.90	0.52
1:B:777:ALA:O	1:B:780:ARG:HB2	2.09	0.52
1:A:189:ASN:HD21	1:A:192:GLU:HB2	1.72	0.52
1:B:952:LEU:O	1:B:963:ALA:HB2	2.09	0.52
1:A:999:ALA:O	1:A:1002:ALA:HB3	2.10	0.52
1:A:107:VAL:O	1:A:110:LYS:CB	2.58	0.52
1:C:110:LYS:CA	1:C:113:LEU:HD12	2.20	0.52
1:C:161:ASN:N	1:C:161:ASN:CB	2.59	0.52
1:A:406:VAL:O	1:A:407:ASP:C	2.45	0.52
1:A:572:PHE:CD1	1:A:572:PHE:N	2.78	0.52
1:C:459:PHE:HD2	1:C:459:PHE:N	1.89	0.52
1:A:399:VAL:O	1:A:401:ALA:N	2.43	0.52
1:B:162:MET:HB2	1:B:313:MET:SD	2.50	0.52
1:B:41:PRO:HG2	1:B:98:THR:HG22	1.90	0.52
1:C:211:ASN:C	1:C:211:ASN:ND2	2.61	0.52
1:A:616:GLY:HA3	1:A:624:THR:OG1	2.09	0.52
1:B:551:GLY:O	1:B:554:TYR:HB2	2.09	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:128:SER:HB2	1:B:113:LEU:HD22	1.90	0.52
1:C:324:VAL:CG2	1:C:326:PRO:HD3	2.39	0.52
1:A:407:ASP:O	1:A:408:ASP:C	2.48	0.52
1:C:432:ARG:CG	1:C:432:ARG:HH11	2.02	0.52
1:C:419:VAL:HA	1:C:422:GLU:HB3	1.91	0.52
1:B:649:MET:O	1:B:653:ARG:HB2	2.10	0.52
1:B:87:THR:HG21	1:B:620:ARG:NH1	2.25	0.52
1:A:644:VAL:O	1:A:646:ALA:N	2.43	0.52
1:A:133:SER:OG	1:A:136:PHE:HE1	1.91	0.52
1:B:960:LEU:HD11	1:B:1027:VAL:CG1	2.39	0.52
1:C:394:THR:O	1:C:395:MET:HE2	2.08	0.52
1:C:939:ALA:O	1:C:943:ILE:HG12	2.10	0.52
1:B:365:THR:O	1:B:368:PRO:HD2	2.10	0.52
1:C:352:PHE:CA	1:C:369:THR:HG21	2.37	0.52
1:A:246:PHE:O	1:A:249:ILE:HD12	2.09	0.52
1:B:740:GLY:HA3	1:B:794:ALA:CB	2.39	0.52
1:B:34:GLN:HB2	1:B:333:VAL:HG22	1.92	0.52
1:A:113:LEU:CD2	1:C:127:VAL:O	2.58	0.52
1:A:58:GLN:HG2	1:A:59:ASP:OD1	2.09	0.52
1:A:59:ASP:CB	1:C:763:ILE:HD11	2.38	0.52
1:A:67:GLN:NE2	2:A:1063:HOH:O	2.12	0.52
1:B:973:ARG:CG	1:B:974:PRO:HD3	2.37	0.52
1:C:752:ALA:O	1:C:774:MET:HA	2.10	0.52
1:B:518:ARG:HA	1:B:521:GLU:CB	2.40	0.52
1:B:784:ASP:O	1:B:785:ASP:C	2.46	0.52
1:B:763:ILE:HD11	1:C:59:ASP:HB3	1.91	0.52
1:B:570:GLY:N	1:B:634:TRP:HH2	2.07	0.52
1:A:246:PHE:O	1:A:249:ILE:HD13	2.10	0.52
1:A:717:ARG:HH11	1:A:830:GLN:HE22	1.55	0.52
1:C:877:TYR:O	1:C:880:SER:HB3	2.09	0.52
1:A:686:ASP:C	1:A:688:ALA:N	2.62	0.52
1:C:314:GLU:CB	1:C:315:PRO:CD	2.79	0.52
1:B:4:PHE:O	1:B:5:PHE:HB2	2.10	0.52
1:B:358:PHE:HB3	1:B:977:MET:CE	2.39	0.52
1:C:442:LEU:O	1:C:445:ILE:HG13	2.10	0.52
1:B:572:PHE:CE2	1:B:629:VAL:HG21	2.45	0.52
1:C:287:SER:OG	1:C:288:GLY:N	2.43	0.52
1:A:183:ALA:N	1:A:271:GLY:O	2.43	0.52
1:C:519:MET:O	1:C:523:SER:OG	2.24	0.52
1:C:1024:VAL:CG1	1:C:1028:VAL:CG2	2.88	0.52
1:B:335:ILE:O	1:B:337:ILE:N	2.43	0.52
1:C:599:LEU:O	1:C:603:LYS:HB2	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:761:ASP:N	1:A:761:ASP:OD2	2.42	0.52
1:C:572:PHE:CZ	1:C:629:VAL:HG11	2.45	0.52
1:B:304:ALA:O	1:B:308:ALA:HB2	2.10	0.52
1:B:168:ARG:HD3	1:C:69:MET:O	2.10	0.52
1:B:545:TYR:C	1:B:547:ILE:N	2.62	0.52
1:B:968:VAL:O	1:B:972:LEU:HB2	2.09	0.52
1:C:945:ILE:CB	1:C:971:ARG:HG3	2.40	0.52
1:A:102:ILE:HA	1:A:105:VAL:HG21	1.92	0.51
1:C:159:ALA:C	2:C:1078:HOH:O	2.32	0.51
1:B:399:VAL:O	1:B:400:LEU:C	2.47	0.51
1:B:360:GLN:O	1:B:361:ASN:CB	2.58	0.51
1:A:1004:GLY:O	1:A:1007:VAL:N	2.43	0.51
1:C:248:LYS:O	1:C:249:ILE:C	2.48	0.51
1:C:655:PHE:C	1:C:657:GLN:N	2.58	0.51
1:A:100:ALA:HB1	1:A:131:LYS:CE	2.39	0.51
1:A:68:ASN:H	1:A:69:MET:N	2.08	0.51
1:B:6:ILE:HD12	1:B:490:PRO:CB	2.39	0.51
1:A:354:VAL:HG13	1:A:980:LEU:HD23	1.92	0.51
1:A:911:GLY:CA	1:A:914:LEU:HD13	2.38	0.51
1:A:904:VAL:O	1:A:905:VAL:C	2.49	0.51
1:A:578:LEU:HD21	1:A:587:THR:CA	2.34	0.51
1:B:659:LYS:HD3	1:B:660:ASP:H	1.72	0.51
1:C:1035:ARG:HA	1:C:1035:ARG:NE	2.25	0.51
1:B:25:LEU:O	1:B:28:LEU:HG	2.10	0.51
1:B:55:LYS:O	1:B:57:VAL:N	2.43	0.51
1:A:65:ILE:N	1:A:65:ILE:C	2.61	0.51
1:A:819:TYR:O	1:A:820:ASN:C	2.48	0.51
1:B:358:PHE:HB3	1:B:977:MET:HE1	1.92	0.51
1:B:978:THR:HG22	1:B:979:SER:H	1.76	0.51
1:A:783:PRO:C	1:A:784:ASP:O	2.48	0.51
1:C:682:PHE:CE2	1:C:702:LEU:HD11	2.46	0.51
1:B:712:MET:HB3	1:B:713:LEU:CD1	2.29	0.51
1:C:214:VAL:CG1	1:C:215:ALA:H	2.23	0.51
1:B:729:ILE:CG1	1:B:730:ASP:N	2.70	0.51
1:B:556:PHE:HA	1:B:913:LEU:HD11	1.92	0.51
1:C:641:GLU:O	1:C:650:ARG:NH1	2.41	0.51
1:C:121:GLU:O	1:C:758:TYR:OH	2.27	0.51
1:C:695:LEU:HD22	1:C:825:MET:HE2	1.92	0.51
1:A:902:MET:C	1:A:904:VAL:H	2.13	0.51
1:B:594:VAL:HG22	1:B:663:VAL:HG11	1.91	0.51
1:C:263:ARG:HG3	1:C:263:ARG:O	2.08	0.51
1:A:826:GLU:C	1:A:827:ILE:HD12	2.31	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:116:PRO:HA	2:A:1072:HOH:O	2.10	0.51
1:B:105:VAL:O	1:B:109:ASN:N	2.35	0.51
1:B:1022:VAL:CG2	1:B:1023:PRO:CD	2.86	0.51
1:B:1026:PHE:HB3	1:B:1030:ARG:NE	2.25	0.51
1:C:341:VAL:O	1:C:345:VAL:HG23	2.11	0.51
1:A:314:GLU:H	1:A:315:PRO:HD3	1.74	0.51
1:A:311:ALA:O	1:A:312:LYS:CB	2.53	0.51
1:A:148:THR:HG21	1:A:319:SER:OG	2.10	0.51
1:B:736:ALA:C	1:B:738:ALA:H	2.12	0.51
1:B:104:GLN:HG2	1:B:105:VAL:H	1.74	0.51
1:B:1027:VAL:O	1:B:1031:ARG:HB3	2.10	0.51
1:A:543:VAL:O	1:A:544:LEU:CB	2.55	0.51
1:A:621:GLY:O	1:A:623:ASN:N	2.43	0.51
1:C:978:THR:O	1:C:979:SER:C	2.46	0.51
1:B:583:THR:HG22	1:B:586:ARG:HG3	1.93	0.51
1:C:760:ASN:C	1:C:760:ASN:OD1	2.49	0.51
1:B:420:MET:HA	1:B:423:GLU:O	2.09	0.51
1:B:330:THR:O	1:B:334:LYS:HG3	2.09	0.51
1:A:11:PHE:CD1	1:B:890:ALA:CB	2.94	0.51
1:A:191:ASN:C	1:A:193:LEU:N	2.63	0.51
1:A:280:GLU:HB2	1:A:284:GLN:O	2.09	0.51
1:A:63:GLN:O	1:A:65:ILE:C	2.49	0.51
1:A:687:GLN:O	1:A:688:ALA:HB2	2.09	0.51
1:C:115:MET:N	1:C:116:PRO:HD3	2.23	0.51
1:C:708:LYS:C	1:C:710:PRO:HD3	2.31	0.51
1:A:831:ALA:HB2	1:A:837:THR:HA	1.93	0.51
1:C:399:VAL:C	1:C:401:ALA:H	2.14	0.51
1:A:651:ALA:O	1:A:655:PHE:HD1	1.93	0.51
1:A:158:VAL:HA	1:A:162:MET:HG2	1.92	0.51
1:C:792:ARG:HG2	1:C:793:ALA:O	2.11	0.51
1:A:69:MET:CG	1:A:69:MET:CA	2.80	0.51
1:C:129:VAL:CA	1:C:129:VAL:CG2	2.84	0.51
1:B:186:ILE:HG23	1:B:266:ALA:HB1	1.91	0.51
1:B:1024:VAL:HG13	1:B:1028:VAL:HG21	1.93	0.51
1:B:974:PRO:O	1:B:976:LEU:N	2.44	0.51
1:A:1016:VAL:HG12	1:A:1016:VAL:O	2.10	0.51
1:B:986:VAL:HG12	1:B:990:VAL:CG2	2.40	0.51
1:B:778:LYS:O	1:B:779:TYR:HB2	2.11	0.51
1:A:166:ILE:N	1:A:166:ILE:CD1	2.67	0.51
1:A:488:LEU:HG	1:A:492:LEU:HD22	1.93	0.51
1:B:476:SER:O	1:B:477:ALA:C	2.49	0.51
1:C:326:PRO:O	1:C:327:TYR:C	2.50	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:181:GLN:CD	1:C:769:LYS:HD2	2.31	0.51
1:B:552:MET:SD	1:B:909:VAL:CG2	2.96	0.51
1:C:701:GLN:O	1:C:704:ALA:N	2.44	0.51
1:C:1016:VAL:O	1:C:1019:ILE:HG22	2.11	0.51
1:C:392:THR:O	1:C:395:MET:N	2.42	0.51
1:C:549:VAL:HG12	1:C:550:VAL:N	2.25	0.51
1:B:863:SER:O	1:B:866:GLU:N	2.44	0.51
1:A:14:VAL:CG1	1:B:886:LEU:HB3	2.41	0.51
1:C:482:VAL:O	1:C:486:LEU:HG	2.11	0.51
1:A:112:GLN:NE2	1:A:112:GLN:CA	2.65	0.51
1:A:818:ARG:NH1	1:A:821:GLY:O	2.43	0.51
1:C:50:PRO:CD	1:C:125:GLN:HG3	2.41	0.51
1:B:168:ARG:HH11	1:C:69:MET:HB2	1.75	0.51
1:C:713:LEU:CD1	1:C:833:PRO:O	2.59	0.51
1:C:754:TRP:CH2	1:C:780:ARG:HA	2.46	0.51
1:B:898:PRO:C	1:B:900:SER:N	2.63	0.51
1:C:911:GLY:O	1:C:914:LEU:O	2.29	0.51
1:C:16:ALA:O	1:C:20:MET:HG3	2.10	0.51
1:C:280:GLU:HB3	1:C:284:GLN:O	2.11	0.51
1:A:584:GLN:N	1:A:622:GLN:HB3	2.23	0.51
1:A:691:GLY:O	1:A:692:HIS:C	2.50	0.51
1:B:91:THR:C	1:B:92:LEU:HD22	2.31	0.51
1:C:785:ASP:O	1:C:787:GLY:N	2.44	0.51
1:A:750:LEU:HD11	1:C:216:ALA:CB	2.41	0.51
1:A:579:PRO:O	1:A:580:ALA:C	2.49	0.51
1:C:734:GLU:O	1:C:738:ALA:N	2.44	0.51
1:A:65:ILE:HG13	1:A:66:GLU:N	2.26	0.50
1:B:946:VAL:HG22	1:B:1026:PHE:CE1	2.45	0.50
1:C:907:LEU:HG	1:C:1017:LEU:HD23	1.93	0.50
1:C:418:ARG:CD	1:C:970:MET:HE2	2.40	0.50
1:C:425:LEU:N	1:C:426:PRO:HD3	2.26	0.50
1:A:583:THR:HB	1:A:586:ARG:HG3	1.93	0.50
1:C:655:PHE:O	1:C:657:GLN:N	2.45	0.50
1:A:732:ASP:HB3	1:A:735:LYS:HB2	1.93	0.50
1:A:107:VAL:O	1:A:110:LYS:HB3	2.11	0.50
1:B:316:PHE:CZ	1:C:687:GLN:HG3	2.46	0.50
1:A:533:GLY:O	1:A:534:ILE:C	2.49	0.50
1:B:987:MET:N	1:B:988:PRO:HD2	2.26	0.50
1:A:658:ILE:O	1:A:659:LYS:O	2.27	0.50
1:B:149:MET:SD	1:B:154:ILE:HG22	2.51	0.50
1:B:595:THR:HB	1:B:609:VAL:HG11	1.93	0.50
1:A:116:PRO:C	1:A:117:LEU:HD22	2.32	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:527:TYR:CD2	1:A:972:LEU:HG	2.47	0.50
1:A:599:LEU:O	1:A:600:THR:CB	2.59	0.50
1:A:418:ARG:NH1	1:A:973:ARG:HB3	2.26	0.50
1:C:188:MET:HA	1:C:266:ALA:CB	2.40	0.50
1:C:556:PHE:HB2	1:C:913:LEU:HD11	1.93	0.50
1:A:399:VAL:C	1:A:401:ALA:N	2.65	0.50
1:C:247:GLY:HA2	1:C:268:ILE:CD1	2.38	0.50
1:B:462:SER:OG	1:B:865:GLN:NE2	2.44	0.50
1:C:666:PHE:CD2	1:C:666:PHE:N	2.79	0.50
1:A:76:MET:SD	1:A:95:GLU:OE2	2.70	0.50
1:C:102:ILE:O	1:C:105:VAL:HB	2.12	0.50
1:B:960:LEU:C	1:B:960:LEU:HD13	2.31	0.50
1:C:490:PRO:C	1:C:491:ALA:O	2.47	0.50
1:A:276:ASP:CB	1:C:222:THR:HG23	2.35	0.50
1:B:228:GLN:HA	1:B:228:GLN:HE21	1.76	0.50
1:C:188:MET:HE2	1:C:200:PRO:HB3	1.92	0.50
1:B:679:GLY:HA2	1:B:830:GLN:HB3	1.94	0.50
1:B:25:LEU:O	1:B:28:LEU:N	2.36	0.50
1:A:73:ASP:CG	1:A:106:GLN:HE22	2.15	0.50
1:A:952:LEU:C	1:A:952:LEU:HD12	2.32	0.50
1:A:428:LYS:CG	1:A:429:GLU:H	2.22	0.50
1:A:421:ALA:O	1:A:423:GLU:N	2.44	0.50
1:C:226:LYS:HA	2:C:1072:HOH:O	2.11	0.50
1:A:635:ALA:C	1:A:637:ARG:H	2.14	0.50
1:B:578:LEU:HD12	1:B:586:ARG:NH2	2.26	0.50
1:C:467:TYR:C	1:C:469:GLN:H	2.15	0.50
1:A:254:ASN:O	1:A:258:SER:OG	2.20	0.50
1:C:726:GLN:N	1:C:810:GLU:O	2.38	0.50
1:C:169:THR:CB	1:C:172:VAL:HG21	2.38	0.50
1:C:758:TYR:H	1:C:758:TYR:HD1	1.55	0.50
1:C:949:ALA:C	1:C:951:ASP:N	2.64	0.50
1:B:317:PHE:CD1	1:B:321:LEU:HD23	2.47	0.50
1:C:695:LEU:CD2	1:C:825:MET:HG3	2.41	0.50
1:A:552:MET:SD	1:A:909:VAL:HG11	2.52	0.50
1:C:191:ASN:O	1:C:194:ASN:HB2	2.11	0.50
1:B:49:TYR:CD1	1:B:122:VAL:HG13	2.46	0.50
1:C:674:LEU:HD12	1:C:865:GLN:OE1	2.12	0.50
1:C:643:LYS:C	1:C:647:ILE:HG13	2.32	0.50
1:C:644:VAL:O	1:C:648:THR:HG22	2.12	0.50
1:C:536:ARG:NH1	1:C:961:ILE:CD1	2.75	0.50
1:B:728:LYS:HD3	1:B:810:GLU:OE1	2.12	0.50
1:A:75:LEU:HD12	1:A:76:MET:N	2.26	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:10:ILE:O	1:B:11:PHE:C	2.48	0.50
1:A:534:ILE:HD12	1:A:540:ARG:NH1	2.26	0.50
1:C:428:LYS:O	1:C:432:ARG:HB2	2.12	0.50
1:C:422:GLU:OE2	1:C:423:GLU:HG3	2.12	0.50
1:B:833:PRO:HG2	1:B:834:GLY:H	1.77	0.50
1:A:588:GLN:O	1:A:591:LEU:N	2.43	0.50
1:B:324:VAL:C	1:B:326:PRO:HD2	2.32	0.50
1:C:243:THR:OG1	1:C:244:GLU:N	2.45	0.50
1:A:371:ALA:O	1:A:372:VAL:O	2.30	0.50
1:A:709:HIS:N	1:A:710:PRO:CD	2.74	0.50
1:A:193:LEU:HA	1:A:265:VAL:HG13	1.94	0.50
1:C:735:LYS:O	1:C:738:ALA:HB3	2.11	0.50
1:A:235:ILE:O	1:A:235:ILE:HG22	2.11	0.50
1:C:311:ALA:O	1:C:312:LYS:C	2.49	0.50
1:B:8:ARG:H	1:B:9:PRO:HD3	1.76	0.50
1:B:1019:ILE:O	1:B:1023:PRO:HG3	2.11	0.50
1:C:192:GLU:C	1:C:194:ASN:N	2.64	0.50
1:C:393:LEU:O	1:C:395:MET:N	2.45	0.50
1:C:559:LEU:HD13	1:C:917:THR:HG23	1.94	0.50
1:B:572:PHE:HA	1:B:668:LEU:HD21	1.93	0.50
1:A:186:ILE:HD12	1:A:207:ILE:HD13	1.94	0.50
1:A:200:PRO:HG2	1:A:749:THR:HG23	1.93	0.50
1:A:578:LEU:H	1:A:578:LEU:HD22	1.76	0.50
1:C:997:SER:O	1:C:999:ALA:N	2.45	0.50
1:C:463:THR:HG22	1:C:464:GLY:H	1.73	0.50
1:C:540:ARG:HG3	1:C:541:TYR:CD1	2.46	0.50
1:A:689:GLY:O	1:A:690:LEU:C	2.51	0.50
1:C:127:VAL:C	1:C:127:VAL:CB	2.73	0.50
1:B:693:GLU:C	1:B:695:LEU:H	2.15	0.50
1:B:703:LEU:O	1:B:704:ALA:C	2.50	0.50
1:C:934:THR:O	1:C:936:GLY:N	2.45	0.50
1:B:830:GLN:H	1:B:830:GLN:NE2	2.04	0.50
1:B:129:VAL:H	1:C:109:ASN:HD21	1.58	0.50
1:A:133:SER:HB3	1:A:136:PHE:CD1	2.46	0.50
1:B:1016:VAL:C	1:B:1018:ALA:H	2.16	0.49
1:B:1017:LEU:O	1:B:1021:PHE:HB2	2.12	0.49
1:B:1022:VAL:CG2	1:B:1023:PRO:HD3	2.33	0.49
1:B:401:ALA:HA	1:B:404:LEU:HB2	1.93	0.49
1:B:547:ILE:O	1:B:550:VAL:O	2.30	0.49
1:C:1010:GLY:C	1:C:1013:THR:HG22	2.32	0.49
1:C:376:LEU:HD22	1:C:398:MET:HE1	1.93	0.49
1:B:712:MET:HA	1:B:712:MET:CE	2.42	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:115:MET:HA	1:B:118:LEU:HD13	1.94	0.49
1:A:395:MET:HA	1:A:395:MET:CE	2.41	0.49
1:A:218:GLN:HB3	1:A:231:ASN:HD21	1.77	0.49
1:C:260:VAL:O	1:C:260:VAL:HG13	2.11	0.49
1:C:1032:ARG:O	1:C:1032:ARG:HG2	2.11	0.49
1:B:600:THR:OG1	1:B:601:LYS:HE2	2.13	0.49
1:B:25:LEU:C	1:B:27:ILE:N	2.64	0.49
1:C:88:VAL:HG11	2:C:1064:HOH:O	2.12	0.49
1:B:1012:VAL:C	1:B:1014:ALA:H	2.15	0.49
1:B:542:LEU:HD11	1:B:1028:VAL:CG1	2.40	0.49
1:B:973:ARG:N	1:B:974:PRO:HD2	2.27	0.49
1:C:966:ASP:HA	1:C:969:ARG:CB	2.42	0.49
1:C:519:MET:CG	1:C:520:PHE:N	2.75	0.49
1:B:413:VAL:HG13	1:B:414:GLU:N	2.27	0.49
1:A:728:LYS:HZ3	1:C:235:ILE:CG2	2.23	0.49
1:C:847:LEU:N	1:C:847:LEU:HD22	2.28	0.49
1:C:847:LEU:HD23	1:C:847:LEU:C	2.33	0.49
1:A:790:TYR:HE1	1:A:800:PRO:CG	2.14	0.49
1:B:100:ALA:HB1	1:B:131:LYS:HD2	1.94	0.49
1:A:455:PRO:HB2	1:A:877:TYR:CE1	2.48	0.49
1:C:100:ALA:O	1:C:101:ASP:C	2.50	0.49
1:C:219:LEU:O	1:C:220:GLY:O	2.30	0.49
1:C:333:VAL:O	1:C:337:ILE:HD12	2.12	0.49
1:B:119:PRO:HG2	1:B:122:VAL:HG21	1.95	0.49
1:A:613:ASN:HA	1:A:625:GLY:HA3	1.95	0.49
1:B:690:LEU:HB2	1:B:694:LYS:HB3	1.94	0.49
1:C:561:SER:HA	1:C:923:ASN:CB	2.43	0.49
1:A:516:PHE:C	1:A:518:ARG:N	2.66	0.49
1:A:568:ASP:HB3	1:A:634:TRP:CZ3	2.41	0.49
1:C:184:MET:HB3	1:C:771:VAL:HG13	1.94	0.49
1:A:38:ILE:HD11	1:A:671:ILE:HG21	1.94	0.49
1:A:359:LEU:CD1	1:A:417:GLU:HG2	2.41	0.49
1:A:682:PHE:CZ	1:A:857:TYR:HB2	2.48	0.49
1:C:166:ILE:CA	1:C:166:ILE:CD1	2.75	0.49
1:A:1024:VAL:HG12	1:A:1028:VAL:HG23	1.94	0.49
1:A:552:MET:C	1:A:554:TYR:H	2.16	0.49
1:C:1022:VAL:N	1:C:1023:PRO:CD	2.75	0.49
1:C:1025:PHE:C	1:C:1029:VAL:HG23	2.33	0.49
1:C:389:SER:O	1:C:394:THR:HG21	2.12	0.49
1:B:602:GLU:C	1:B:604:ASN:N	2.65	0.49
1:C:461:GLY:CA	1:C:869:SER:OG	2.61	0.49
1:C:454:VAL:O	1:C:456:MET:O	2.31	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:158:VAL:HA	1:B:162:MET:CG	2.36	0.49
1:A:719:ASN:N	1:A:826:GLU:O	2.46	0.49
1:A:843:LEU:HD23	1:A:846:GLN:NE2	2.27	0.49
1:C:23:GLY:O	1:C:27:ILE:HG13	2.13	0.49
1:C:166:ILE:CG2	1:C:166:ILE:CA	2.85	0.49
1:C:314:GLU:HA	1:C:317:PHE:CZ	2.47	0.49
1:B:1026:PHE:HB3	1:B:1030:ARG:CZ	2.42	0.49
1:B:410:ILE:C	1:B:412:VAL:H	2.15	0.49
1:A:533:GLY:O	1:A:535:LEU:HB2	2.12	0.49
1:B:343:THR:O	1:B:347:ALA:N	2.39	0.49
1:C:545:TYR:CZ	1:C:1021:PHE:CD2	3.01	0.49
1:C:399:VAL:HA	1:C:402:ILE:HD12	1.92	0.49
1:C:8:ARG:HG2	1:C:8:ARG:HH21	1.78	0.49
1:B:701:GLN:HB3	1:B:851:LEU:HD13	1.95	0.49
1:A:330:THR:H	1:A:331:PRO:HD2	1.78	0.49
1:A:574:THR:HG21	1:A:598:TYR:CE1	2.44	0.49
1:A:754:TRP:CZ2	1:A:786:ILE:HG12	2.48	0.49
1:C:781:MET:O	1:C:782:LEU:HD23	2.13	0.49
1:A:693:GLU:C	1:A:695:LEU:N	2.65	0.49
1:C:492:LEU:O	1:C:496:MET:HG2	2.13	0.49
1:A:68:ASN:H	1:A:69:MET:H	1.61	0.49
1:C:912:ALA:O	1:C:914:LEU:N	2.46	0.49
1:A:219:LEU:HD23	1:B:754:TRP:HZ3	1.78	0.49
1:C:513:PHE:CA	1:C:516:PHE:HB3	2.33	0.49
1:C:562:SER:OG	1:C:922:THR:HG21	2.12	0.49
1:A:372:VAL:HB	1:A:373:PRO:CD	2.37	0.49
1:A:999:ALA:HA	1:A:1002:ALA:CB	2.43	0.49
1:B:380:PHE:CZ	1:B:398:MET:HE2	2.48	0.49
1:B:619:GLY:H	1:B:721:LEU:CD1	2.26	0.49
1:A:818:ARG:HG3	2:A:1062:HOH:O	2.11	0.49
1:C:80:SER:O	1:C:89:GLN:O	2.31	0.49
1:B:471:SER:O	1:B:475:VAL:HB	2.13	0.49
1:B:404:LEU:HD13	1:B:449:LEU:CD1	2.42	0.49
1:C:685:ILE:HD12	1:C:686:ASP:N	2.28	0.49
1:C:705:GLU:O	1:C:708:LYS:N	2.45	0.49
1:A:963:ALA:O	1:A:965:LEU:N	2.46	0.49
1:C:476:SER:C	1:C:478:MET:N	2.66	0.49
1:B:20:MET:HG3	1:B:374:VAL:HG23	1.94	0.49
1:C:568:ASP:OD1	1:C:634:TRP:CD1	2.65	0.49
1:C:650:ARG:O	1:C:653:ARG:HG2	2.12	0.49
1:A:631:LEU:HD11	1:A:644:VAL:HG22	1.94	0.49
1:C:102:ILE:O	1:C:105:VAL:N	2.46	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:490:PRO:O	1:B:493:CYS:O	2.30	0.49
1:C:192:GLU:O	1:C:193:LEU:C	2.51	0.49
1:B:642:ASN:N	1:B:650:ARG:HH12	2.05	0.49
1:B:125:GLN:CG	1:B:125:GLN:O	2.59	0.49
1:C:987:MET:HB3	1:C:988:PRO:HD3	1.94	0.49
1:C:188:MET:HE2	1:C:200:PRO:HA	1.95	0.49
1:A:521:GLU:CG	2:A:1075:HOH:O	2.57	0.49
1:B:183:ALA:H	1:B:272:GLY:HA2	1.78	0.49
1:B:453:PHE:HA	1:B:456:MET:SD	2.52	0.49
1:B:485:ALA:HA	1:B:489:THR:OG1	2.13	0.49
1:B:905:VAL:N	1:B:906:PRO:CD	2.76	0.49
1:A:832:ALA:CB	1:A:835:LYS:HB2	2.40	0.49
1:C:396:PHE:HA	1:C:399:VAL:HB	1.94	0.49
1:C:4:PHE:HB3	1:C:8:ARG:NH2	2.16	0.49
1:B:362:PHE:HA	1:B:365:THR:HG22	1.95	0.49
1:B:583:THR:HG23	1:B:585:GLU:H	1.78	0.49
1:A:171:GLY:O	1:A:173:GLY:N	2.45	0.49
1:A:736:ALA:CA	1:A:741:VAL:HG13	2.42	0.49
1:C:574:THR:O	1:C:626:ILE:HD13	2.12	0.49
1:A:63:GLN:O	1:A:64:VAL:C	2.50	0.48
1:A:67:GLN:CB	2:A:1057:HOH:O	2.60	0.48
1:B:7:ASP:CG	1:B:8:ARG:HH21	2.16	0.48
1:B:942:ALA:O	1:B:945:ILE:HG12	2.13	0.48
1:B:900:SER:O	1:B:903:LEU:N	2.39	0.48
1:B:638:PRO:HG2	1:B:639:GLY:H	1.78	0.48
1:B:355:MET:O	1:B:365:THR:OG1	2.30	0.48
1:B:369:THR:O	1:B:372:VAL:HG13	2.13	0.48
1:B:578:LEU:HD12	1:B:586:ARG:CZ	2.42	0.48
1:B:586:ARG:NH2	1:B:660:ASP:HB2	2.26	0.48
1:A:193:LEU:HB2	1:A:265:VAL:HG13	1.95	0.48
1:B:969:ARG:HH11	1:B:969:ARG:HG2	1.78	0.48
1:A:64:VAL:HG12	1:A:65:ILE:N	2.27	0.48
1:C:324:VAL:HG23	1:C:325:TYR:N	2.27	0.48
1:C:65:ILE:O	1:C:66:GLU:C	2.48	0.48
1:C:893:GLU:HG3	1:C:893:GLU:O	2.13	0.48
1:A:534:ILE:HD12	1:A:540:ARG:CZ	2.43	0.48
1:A:554:TYR:HE1	1:A:558:ARG:HD3	1.76	0.48
1:C:753:ALA:HB1	1:C:775:SER:HB2	1.95	0.48
1:C:576:VAL:HG21	1:C:591:LEU:CD2	2.43	0.48
1:C:449:LEU:O	1:C:452:VAL:N	2.26	0.48
1:A:449:LEU:O	1:A:453:PHE:HD1	1.96	0.48
1:B:218:GLN:HA	1:B:234:ILE:HG13	1.95	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:956:GLU:CD	1:B:956:GLU:H	2.17	0.48
1:B:261:LEU:CD2	1:B:263:ARG:HB2	2.43	0.48
1:B:261:LEU:HD13	1:B:261:LEU:H	1.78	0.48
1:B:743:ILE:H	1:B:743:ILE:HD12	1.78	0.48
1:A:72:ILE:HG22	1:A:72:ILE:O	2.13	0.48
1:C:110:LYS:HA	1:C:113:LEU:CD1	2.20	0.48
1:C:127:VAL:CA	1:C:127:VAL:CG1	2.83	0.48
1:B:4:PHE:O	1:B:6:ILE:N	2.44	0.48
1:B:341:VAL:CG1	1:B:342:LYS:N	2.76	0.48
1:C:545:TYR:OH	1:C:1021:PHE:HB3	2.13	0.48
1:C:435:MET:HA	1:C:438:ILE:HG22	1.95	0.48
1:C:252:LYS:O	1:C:260:VAL:CG1	2.57	0.48
1:A:671:ILE:O	1:A:672:VAL:C	2.51	0.48
1:A:819:TYR:N	1:A:822:LEU:O	2.45	0.48
1:C:163:LYS:O	1:C:165:ALA:N	2.46	0.48
1:B:220:GLY:O	1:B:221:GLY:O	2.30	0.48
1:C:4:PHE:CB	1:C:8:ARG:NH2	2.68	0.48
1:A:281:PHE:O	1:A:282:ASN:C	2.51	0.48
1:B:418:ARG:HG3	1:B:970:MET:HE3	1.92	0.48
1:A:190:PRO:HG2	1:A:788:ASP:HB3	1.95	0.48
1:B:423:GLU:OE1	1:B:427:PRO:HD3	2.10	0.48
1:B:610:PHE:O	1:B:627:ALA:CB	2.59	0.48
1:B:174:ASP:CG	1:B:175:VAL:H	2.16	0.48
1:B:197:GLN:O	1:B:792:ARG:NH2	2.45	0.48
1:A:686:ASP:O	1:A:687:GLN:C	2.50	0.48
1:B:912:ALA:HB1	1:B:1006:GLY:O	2.13	0.48
1:A:531:VAL:CA	1:A:534:ILE:HD11	2.17	0.48
1:C:417:GLU:HB3	1:C:973:ARG:NH1	2.28	0.48
1:A:924:ASP:O	1:A:925:VAL:C	2.50	0.48
1:A:600:THR:O	1:A:601:LYS:CB	2.61	0.48
1:C:925:VAL:O	1:C:926:TYR:HB2	2.14	0.48
1:B:26:ALA:O	1:B:30:LEU:HB2	2.14	0.48
1:C:466:ILE:N	1:C:466:ILE:HD12	2.28	0.48
1:A:60:THR:CG2	1:A:119:PRO:CD	2.90	0.48
1:A:309:GLU:O	1:A:311:ALA:O	2.32	0.48
1:A:189:ASN:ND2	1:A:192:GLU:HB3	2.27	0.48
1:B:709:HIS:N	1:B:710:PRO:CD	2.76	0.48
1:C:964:THR:O	1:C:967:ALA:HB3	2.13	0.48
1:A:289:LEU:HD23	1:A:289:LEU:C	2.33	0.48
1:C:386:PHE:O	1:C:388:PHE:HD1	1.96	0.48
1:A:818:ARG:CD	1:A:821:GLY:O	2.51	0.48
1:A:105:VAL:HA	1:B:109:ASN:HD21	1.79	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:892:TYR:C	1:B:894:SER:H	2.16	0.48
1:C:1018:ALA:HA	1:C:1021:PHE:HB2	1.94	0.48
1:B:648:THR:HG21	1:B:666:PHE:HA	1.95	0.48
1:B:742:SER:CB	1:B:745:ASP:OD2	2.52	0.48
1:C:997:SER:HA	1:C:1000:GLN:OE1	2.12	0.48
1:B:327:TYR:HD2	1:B:628:PHE:HB3	1.75	0.48
1:A:255:GLN:N	1:A:255:GLN:OE1	2.46	0.48
1:A:56:THR:HG22	1:A:56:THR:O	2.12	0.48
1:B:335:ILE:C	1:B:337:ILE:N	2.66	0.48
1:C:758:TYR:CD2	1:C:770:LYS:HE2	2.49	0.48
1:B:932:LEU:HA	1:B:935:ILE:HD12	1.95	0.48
1:B:407:ASP:O	1:B:410:ILE:HG22	2.13	0.48
1:B:416:VAL:HG22	1:B:431:THR:HA	1.94	0.48
1:C:528:THR:O	1:C:531:VAL:HG22	2.14	0.48
1:C:910:ILE:CG2	1:C:911:GLY:N	2.77	0.48
1:C:1:MET:HE3	1:C:439:GLN:HE22	1.75	0.48
1:A:189:ASN:O	1:A:189:ASN:CG	2.52	0.48
1:C:846:GLN:O	1:C:849:SER:OG	2.29	0.48
1:C:958:LYS:N	1:C:958:LYS:HD2	2.29	0.48
1:A:99:ASP:O	1:A:102:ILE:HG22	2.13	0.48
1:C:165:ALA:C	2:C:1075:HOH:O	2.52	0.48
1:B:485:ALA:O	1:B:486:LEU:HB3	2.14	0.48
1:C:545:TYR:OH	1:C:1021:PHE:CD2	2.51	0.48
1:A:158:VAL:O	1:A:158:VAL:HG12	2.13	0.48
1:B:20:MET:HE2	1:B:373:PRO:O	2.13	0.48
1:A:578:LEU:HD21	1:A:587:THR:CG2	2.42	0.48
1:C:913:LEU:HD23	1:C:927:PHE:CZ	2.49	0.48
1:C:350:LEU:HD12	1:C:985:GLY:CA	2.39	0.48
1:A:702:LEU:HA	1:A:705:GLU:HB2	1.96	0.48
1:B:252:LYS:HB3	1:B:260:VAL:HG11	1.95	0.48
1:B:101:ASP:O	1:B:105:VAL:HG23	2.14	0.48
1:C:950:LYS:HZ3	1:C:1030:ARG:NH1	2.11	0.48
1:B:409:ALA:HB2	1:B:485:ALA:HB2	1.94	0.48
1:C:974:PRO:O	1:C:975:ILE:C	2.52	0.48
1:A:307:ARG:NH1	1:A:325:TYR:CD2	2.82	0.48
1:B:362:PHE:C	1:B:364:ALA:H	2.16	0.48
1:A:391:ASN:O	1:A:392:THR:C	2.51	0.48
1:B:298:ASN:HB2	1:B:301:ASP:OD1	2.14	0.48
1:C:644:VAL:HG12	1:C:667:ASN:HB2	1.95	0.48
1:A:498:LYS:HA	1:A:498:LYS:HE2	1.95	0.48
1:A:218:GLN:OE1	1:A:221:GLY:HA3	2.14	0.48
1:A:841:MET:O	1:A:844:MET:HB3	2.14	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:108:GLN:CD	1:B:112:GLN:CD	2.72	0.48
1:C:104:GLN:HG3	1:C:131:LYS:CG	2.42	0.48
1:C:115:MET:HE1	1:C:118:LEU:HD23	1.96	0.48
1:C:121:GLU:OE2	1:C:121:GLU:N	2.44	0.48
1:B:438:ILE:CD1	1:B:971:ARG:NH1	2.77	0.48
1:B:341:VAL:HG13	1:B:342:LYS:N	2.29	0.48
1:C:420:MET:SD	1:C:498:LYS:HD3	2.53	0.48
1:B:833:PRO:O	1:B:834:GLY:O	2.31	0.48
1:B:324:VAL:O	1:B:326:PRO:HD2	2.13	0.48
1:C:246:PHE:HZ	1:C:762:PHE:CB	2.27	0.48
1:C:262:LEU:HD23	1:C:268:ILE:HD11	1.95	0.48
1:C:536:ARG:HH21	1:C:536:ARG:HG2	1.79	0.48
1:B:830:GLN:N	1:B:830:GLN:HE21	2.06	0.48
1:B:423:GLU:OE1	1:B:427:PRO:CG	2.60	0.48
1:B:219:LEU:HD12	1:B:219:LEU:H	1.79	0.48
1:C:115:MET:HB2	1:C:116:PRO:HD3	1.95	0.47
1:C:181:GLN:OE1	1:C:767:ARG:CZ	2.62	0.47
1:B:525:HIS:O	1:B:529:ASP:HB2	2.14	0.47
1:A:978:THR:C	1:A:980:LEU:H	2.16	0.47
1:C:945:ILE:HD12	1:C:945:ILE:C	2.34	0.47
1:B:665:ALA:O	1:B:666:PHE:CG	2.67	0.47
1:A:251:LEU:CD1	1:A:262:LEU:HA	2.29	0.47
1:B:366:LEU:O	1:B:369:THR:N	2.41	0.47
1:A:1004:GLY:O	1:A:1005:THR:C	2.52	0.47
1:B:626:ILE:HD11	1:B:628:PHE:CZ	2.49	0.47
1:C:244:GLU:O	1:C:263:ARG:NH2	2.47	0.47
1:B:562:SER:HA	1:B:837:THR:OG1	2.14	0.47
1:C:653:ARG:O	1:C:655:PHE:O	2.32	0.47
1:B:391:ASN:H	1:B:394:THR:HG1	1.57	0.47
1:A:54:ALA:O	1:A:55:LYS:C	2.50	0.47
1:C:131:LYS:HB2	1:C:295:THR:HG21	1.96	0.47
1:B:247:GLY:HA2	1:B:268:ILE:HD11	1.78	0.47
1:C:950:LYS:HE2	1:C:1030:ARG:CZ	2.45	0.47
1:B:339:GLU:HB3	1:B:1000:GLN:HE22	1.79	0.47
1:A:729:ILE:O	1:A:730:ASP:HB2	2.13	0.47
1:A:574:THR:HG22	1:A:665:ALA:HB2	1.96	0.47
1:A:418:ARG:HH21	1:A:970:MET:HA	1.78	0.47
1:B:280:GLU:CA	1:B:284:GLN:O	2.62	0.47
1:B:573:MET:HE2	1:B:626:ILE:HD12	1.96	0.47
1:B:575:MET:O	1:B:663:VAL:HA	2.14	0.47
1:B:984:LEU:O	1:B:984:LEU:CD1	2.60	0.47
1:C:1024:VAL:CG1	1:C:1028:VAL:HG21	2.44	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:58:GLN:HB2	1:B:82:SER:CB	2.44	0.47
1:B:249:ILE:O	1:B:261:LEU:HB2	2.14	0.47
1:A:639:GLY:O	1:A:642:ASN:N	2.37	0.47
1:A:964:THR:O	1:A:964:THR:HG22	2.12	0.47
1:A:102:ILE:CA	1:A:105:VAL:HG23	2.44	0.47
1:A:111:LEU:O	1:A:112:GLN:C	2.47	0.47
1:C:57:VAL:CG1	1:C:88:VAL:HG23	2.45	0.47
1:B:1024:VAL:O	1:B:1025:PHE:CB	2.62	0.47
1:B:415:ASN:ND2	1:B:438:ILE:HD13	2.29	0.47
1:B:489:THR:N	1:B:490:PRO:HD2	2.29	0.47
1:A:538:THR:C	1:A:540:ARG:H	2.17	0.47
1:B:988:PRO:O	1:B:989:LEU:CB	2.45	0.47
1:B:889:ALA:O	1:B:892:TYR:O	2.33	0.47
1:C:13:TRP:O	1:C:17:ILE:HD13	2.14	0.47
1:A:920:GLY:O	1:A:921:LEU:HD23	2.14	0.47
1:A:568:ASP:CG	1:A:637:ARG:HH12	2.16	0.47
1:B:560:PRO:O	1:B:922:THR:OG1	2.32	0.47
1:B:330:THR:H	1:B:331:PRO:HD2	1.74	0.47
1:A:779:TYR:CD1	1:A:779:TYR:N	2.82	0.47
1:A:999:ALA:HA	1:A:1002:ALA:HB3	1.97	0.47
1:C:300:LEU:O	1:C:303:ALA:N	2.48	0.47
1:A:592:ASN:O	1:A:595:THR:HB	2.14	0.47
1:A:113:LEU:HD23	1:C:127:VAL:O	2.14	0.47
1:B:548:ILE:HD13	1:B:1017:LEU:HD23	1.95	0.47
1:B:972:LEU:CD1	1:B:976:LEU:CD2	2.92	0.47
1:A:1019:ILE:O	1:A:1023:PRO:HG3	2.14	0.47
1:C:358:PHE:CB	1:C:977:MET:HE2	2.25	0.47
1:B:20:MET:O	1:B:23:GLY:O	2.32	0.47
1:B:418:ARG:NE	1:B:970:MET:SD	2.87	0.47
1:C:978:THR:O	1:C:981:ALA:N	2.47	0.47
1:B:281:PHE:O	1:B:284:GLN:HB3	2.15	0.47
1:A:455:PRO:HB2	1:A:877:TYR:HE1	1.79	0.47
1:C:71:GLY:C	1:C:72:ILE:HG13	2.33	0.47
1:B:953:MET:HA	1:B:958:LYS:HA	1.96	0.47
1:A:481:SER:OG	1:A:482:VAL:N	2.46	0.47
1:C:66:GLU:HB3	1:C:78:MET:CE	2.45	0.47
1:C:438:ILE:O	1:C:441:ALA:HB3	2.14	0.47
1:A:438:ILE:H	1:A:438:ILE:HD13	1.79	0.47
1:A:277:ILE:HA	1:A:613:ASN:O	2.13	0.47
1:A:877:TYR:OH	1:A:932:LEU:HD11	2.15	0.47
1:A:736:ALA:HA	1:A:741:VAL:HG13	1.95	0.47
1:B:600:THR:O	1:B:603:LYS:HG2	2.15	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:450:SER:O	1:B:451:ALA:C	2.50	0.47
1:B:185:ARG:NH2	2:B:1054:HOH:O	2.47	0.47
1:A:96:SER:OG	1:A:97:GLY:N	2.44	0.47
1:C:767:ARG:HG2	1:C:769:LYS:HD3	1.96	0.47
1:B:944:LEU:HB2	1:B:975:ILE:HD11	1.96	0.47
1:B:892:TYR:HB2	1:B:897:ILE:HD11	1.95	0.47
1:C:474:ILE:O	1:C:478:MET:HB2	2.15	0.47
1:C:1:MET:HE1	1:C:439:GLN:HE22	1.80	0.47
1:C:140:VAL:HG12	1:C:140:VAL:O	2.13	0.47
1:B:355:MET:SD	1:B:368:PRO:HB2	2.54	0.47
1:B:729:ILE:CG1	1:B:730:ASP:H	2.24	0.47
1:B:750:LEU:C	1:B:750:LEU:CD1	2.82	0.47
1:B:158:VAL:CA	1:B:162:MET:HG2	2.36	0.47
1:B:864:TYR:O	1:B:868:LEU:HB2	2.14	0.47
1:B:568:ASP:HA	1:B:644:VAL:HG21	1.96	0.47
1:A:65:ILE:HD12	1:A:65:ILE:C	2.34	0.47
1:C:327:TYR:HD1	1:C:571:VAL:HB	1.80	0.47
1:A:114:ALA:O	1:A:115:MET:C	2.53	0.47
1:A:130:GLU:HG2	1:B:113:LEU:HD11	1.97	0.47
1:A:65:ILE:CA	1:A:66:GLU:N	2.66	0.47
1:A:69:MET:HA	1:A:69:MET:CE	2.44	0.47
1:A:95:GLU:O	1:A:98:THR:CG2	2.62	0.47
1:C:66:GLU:HB3	1:C:78:MET:HE1	1.97	0.47
1:C:62:THR:O	1:C:66:GLU:HG3	2.15	0.47
1:B:467:TYR:O	1:B:470:PHE:HB2	2.14	0.47
1:B:908:GLY:C	1:B:910:ILE:H	2.17	0.47
1:B:978:THR:HG23	1:B:979:SER:N	2.30	0.47
1:A:1015:THR:C	1:A:1017:LEU:H	2.18	0.47
1:A:344:LEU:HD22	1:A:402:ILE:CD1	2.45	0.47
1:B:314:GLU:HA	1:B:317:PHE:CD2	2.50	0.47
1:A:1026:PHE:O	1:A:1030:ARG:HB2	2.14	0.47
1:C:415:ASN:HD21	1:C:434:SER:CB	2.27	0.47
1:C:417:GLU:CA	1:C:417:GLU:OE2	2.55	0.47
1:C:1:MET:CB	1:C:2:PRO:HD2	2.21	0.47
1:B:85:THR:HG23	1:B:87:THR:HB	1.95	0.47
1:B:144:ASN:OD1	1:B:149:MET:HG3	2.15	0.47
1:A:185:ARG:NH2	1:A:774:MET:HE2	2.29	0.47
1:A:200:PRO:CG	1:A:749:THR:HG23	2.45	0.47
1:B:612:VAL:HG23	1:B:626:ILE:O	2.15	0.47
1:C:925:VAL:C	1:C:927:PHE:N	2.68	0.47
1:C:934:THR:O	1:C:935:ILE:C	2.52	0.47
1:A:674:LEU:HD13	1:A:675:GLY:N	2.30	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:607:GLU:HB2	1:C:632:LYS:HD3	1.97	0.47
1:B:166:ILE:HG22	1:B:167:SER:N	2.30	0.47
1:C:300:LEU:O	1:C:301:ASP:C	2.53	0.47
1:B:17:ILE:HG21	1:C:886:LEU:HD21	1.97	0.47
1:B:354:VAL:HG21	1:B:981:ALA:HA	1.96	0.47
1:B:904:VAL:HG13	1:B:907:LEU:CD1	2.25	0.47
1:B:945:ILE:HG13	1:B:946:VAL:N	2.30	0.47
1:B:314:GLU:O	1:B:316:PHE:N	2.47	0.47
1:A:711:ASP:C	1:A:713:LEU:H	2.18	0.47
1:B:418:ARG:HH21	1:B:970:MET:HG2	1.80	0.47
1:A:221:GLY:C	1:A:222:THR:O	2.50	0.47
1:B:425:LEU:HA	1:B:426:PRO:HD3	1.70	0.47
1:C:688:ALA:C	1:C:690:LEU:N	2.66	0.47
1:C:695:LEU:O	1:C:696:THR:C	2.54	0.47
1:B:343:THR:HG21	1:B:1000:GLN:OE1	2.15	0.47
1:C:355:MET:CE	1:C:355:MET:HA	2.45	0.47
1:A:831:ALA:HA	1:A:840:ALA:CB	2.45	0.47
1:B:692:HIS:CE1	1:B:723:ASP:OD1	2.68	0.47
1:A:426:PRO:CB	1:A:427:PRO:HD2	2.45	0.47
1:B:588:GLN:HA	1:B:588:GLN:OE1	2.14	0.47
1:A:695:LEU:HG	1:A:695:LEU:O	2.14	0.47
1:A:223:PRO:HD3	1:B:275:TYR:CB	2.45	0.47
1:A:298:ASN:HB3	1:A:301:ASP:HB2	1.97	0.47
1:C:32:VAL:CG1	1:C:32:VAL:O	2.56	0.47
1:A:150:THR:O	1:A:151:GLN:C	2.54	0.47
1:A:8:ARG:HG3	1:A:8:ARG:O	2.15	0.47
1:A:118:LEU:HA	1:A:118:LEU:HD23	1.50	0.47
1:B:262:LEU:HD22	1:B:266:ALA:HB3	1.96	0.47
1:C:705:GLU:C	1:C:707:ALA:N	2.67	0.47
1:C:393:LEU:C	1:C:395:MET:H	2.18	0.47
1:C:184:MET:HE3	1:C:270:LEU:HA	1.97	0.47
1:B:790:TYR:HD1	1:B:800:PRO:N	2.13	0.47
1:B:792:ARG:HB2	1:B:798:MET:HE1	1.97	0.47
1:C:721:LEU:HD23	1:C:721:LEU:O	2.15	0.47
1:B:57:VAL:HG11	1:B:86:GLY:HA2	1.97	0.47
1:B:428:LYS:O	1:B:432:ARG:HB2	2.15	0.47
1:A:58:GLN:HE21	1:A:816:LEU:CD1	2.28	0.46
1:C:315:PRO:HB2	1:C:316:PHE:CD1	2.50	0.46
1:B:538:THR:H	1:B:540:ARG:HH21	1.61	0.46
1:B:979:SER:HB3	1:B:1011:MET:HE3	1.97	0.46
1:C:713:LEU:CD2	1:C:835:LYS:H	2.24	0.46
1:C:729:ILE:HD11	1:C:786:ILE:CD1	2.33	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:713:LEU:HB2	1:A:833:PRO:CD	2.45	0.46
1:A:922:THR:C	1:A:924:ASP:H	2.18	0.46
1:B:115:MET:HE1	1:B:127:VAL:CG2	2.36	0.46
1:C:872:GLN:HB2	1:C:875:SER:CB	2.37	0.46
1:B:556:PHE:CA	1:B:913:LEU:HD21	2.46	0.46
1:C:578:LEU:CD2	1:C:590:VAL:HG21	2.45	0.46
1:C:332:PHE:CE1	1:C:569:GLN:HG2	2.50	0.46
1:C:169:THR:CG2	1:C:172:VAL:CG2	2.93	0.46
1:C:52:ALA:O	1:C:53:ASP:CG	2.53	0.46
1:B:538:THR:HG23	1:B:540:ARG:HH22	1.77	0.46
1:B:546:LEU:O	1:B:550:VAL:HB	2.15	0.46
1:B:217:GLY:HA3	1:C:754:TRP:O	2.16	0.46
1:C:399:VAL:O	1:C:401:ALA:N	2.49	0.46
1:C:445:ILE:HD13	1:C:940:LYS:HE3	1.97	0.46
1:B:375:VAL:HG22	1:B:484:VAL:HG21	1.97	0.46
1:C:228:GLN:HG3	1:C:228:GLN:O	2.15	0.46
1:B:690:LEU:HD22	1:B:694:LYS:HB2	1.97	0.46
1:C:259:ARG:CB	1:C:259:ARG:NH1	2.77	0.46
1:B:174:ASP:CG	1:B:175:VAL:N	2.69	0.46
1:C:719:ASN:N	2:C:1063:HOH:O	2.26	0.46
1:B:743:ILE:O	1:B:747:ASN:ND2	2.48	0.46
1:C:279:ALA:HA	1:C:611:ALA:O	2.16	0.46
1:A:335:ILE:HD12	1:A:335:ILE:C	2.36	0.46
1:A:822:LEU:O	1:A:823:PRO:C	2.52	0.46
1:A:113:LEU:HD13	1:C:108:GLN:HE22	1.80	0.46
1:A:909:VAL:O	1:A:912:ALA:CB	2.59	0.46
1:B:345:VAL:HG12	1:B:349:ILE:CD1	2.45	0.46
1:B:898:PRO:O	1:B:899:PHE:C	2.53	0.46
1:A:728:LYS:HZ2	1:C:235:ILE:HG22	1.78	0.46
1:B:42:ALA:HA	1:B:93:THR:HA	1.97	0.46
1:C:559:LEU:HD13	1:C:917:THR:CG2	2.45	0.46
1:C:16:ALA:HB2	1:C:488:LEU:HD22	1.97	0.46
1:C:674:LEU:HD21	1:C:862:MET:N	2.29	0.46
1:B:355:MET:CE	1:B:369:THR:HG22	2.46	0.46
1:B:366:LEU:O	1:B:370:ILE:HG13	2.15	0.46
1:C:989:LEU:HD12	1:C:1000:GLN:HA	1.96	0.46
1:A:572:PHE:CD1	1:A:629:VAL:HG13	2.50	0.46
1:B:804:PHE:O	1:B:805:SER:CB	2.63	0.46
1:B:189:ASN:HB3	1:B:192:GLU:HB3	1.98	0.46
1:C:26:ALA:O	1:C:30:LEU:CG	2.64	0.46
1:A:822:LEU:HG	2:A:1055:HOH:O	2.15	0.46
1:C:169:THR:HG22	1:C:172:VAL:CG2	2.41	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:11:PHE:O	1:B:14:VAL:N	2.48	0.46
1:C:897:ILE:HD13	1:C:950:LYS:HG3	1.98	0.46
1:B:316:PHE:CE2	1:C:687:GLN:HG3	2.50	0.46
1:C:1022:VAL:O	1:C:1023:PRO:C	2.50	0.46
1:B:693:GLU:C	1:B:695:LEU:N	2.68	0.46
1:A:316:PHE:O	1:A:321:LEU:HD11	2.15	0.46
1:A:741:VAL:HG22	1:A:746:ILE:HD11	1.97	0.46
1:A:135:SER:O	1:A:136:PHE:CG	2.69	0.46
1:C:470:PHE:CD2	1:C:929:VAL:HG11	2.50	0.46
1:B:104:GLN:HG2	1:B:105:VAL:N	2.27	0.46
2:B:1060:HOH:O	1:C:110:LYS:CD	2.59	0.46
1:C:60:THR:HG22	1:C:61:VAL:HG23	1.97	0.46
1:B:1020:PHE:O	1:B:1023:PRO:HG2	2.15	0.46
1:A:1015:THR:OG1	1:A:1016:VAL:N	2.48	0.46
1:C:696:THR:O	1:C:697:GLN:C	2.52	0.46
1:A:713:LEU:CG	1:A:832:ALA:HA	2.46	0.46
1:A:729:ILE:HD13	1:C:234:ILE:HG23	1.97	0.46
1:B:518:ARG:O	1:B:520:PHE:N	2.48	0.46
1:B:518:ARG:HA	1:B:521:GLU:CG	2.46	0.46
1:A:203:VAL:HG13	1:A:262:LEU:HD11	1.97	0.46
1:B:41:PRO:HG2	1:B:98:THR:CG2	2.46	0.46
1:B:287:SER:OG	1:B:288:GLY:N	2.49	0.46
1:C:321:LEU:C	1:C:321:LEU:HD13	2.36	0.46
1:A:109:ASN:CG	1:C:108:GLN:OE1	2.53	0.46
1:A:820:ASN:HB3	1:C:168:ARG:NH2	2.31	0.46
1:C:58:GLN:C	2:C:1079:HOH:O	2.54	0.46
1:A:552:MET:HB2	1:A:910:ILE:HG23	1.96	0.46
1:C:355:MET:CE	1:C:977:MET:HG2	2.45	0.46
1:C:418:ARG:NH2	1:C:948:PHE:HZ	2.14	0.46
1:B:693:GLU:O	1:B:695:LEU:N	2.49	0.46
1:A:572:PHE:CE1	1:A:629:VAL:CG1	2.99	0.46
1:B:613:ASN:O	1:B:625:GLY:HA2	2.16	0.46
1:A:166:ILE:HG22	1:A:172:VAL:HG11	1.98	0.46
1:B:174:ASP:OD1	1:B:175:VAL:N	2.49	0.46
1:A:252:LYS:HB3	1:A:260:VAL:CG2	2.45	0.46
1:C:666:PHE:HD2	1:C:666:PHE:N	2.13	0.46
1:C:895:TRP:HA	1:C:895:TRP:CE3	2.51	0.46
1:A:58:GLN:NE2	1:A:816:LEU:CD1	2.78	0.46
1:B:213:GLN:CG	1:C:56:THR:HG23	2.45	0.46
1:B:470:PHE:O	1:B:471:SER:C	2.52	0.46
1:B:920:GLY:O	1:B:921:LEU:O	2.34	0.46
1:C:400:LEU:HD12	1:C:930:GLY:HA2	1.98	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:663:VAL:HG12	1:C:664:PHE:N	2.30	0.46
1:B:819:TYR:O	1:B:820:ASN:C	2.54	0.46
1:B:252:LYS:HG2	1:B:253:VAL:H	1.80	0.46
1:A:349:ILE:CD1	1:A:349:ILE:N	2.79	0.46
1:A:639:GLY:O	1:A:640:GLU:C	2.54	0.46
1:B:973:ARG:CG	1:B:974:PRO:CD	2.92	0.46
1:B:344:LEU:O	1:B:347:ALA:HB3	2.16	0.46
1:B:897:ILE:HG13	1:B:898:PRO:CD	2.46	0.46
1:C:356:TYR:C	1:C:358:PHE:H	2.18	0.46
1:A:443:VAL:O	1:A:444:GLY:C	2.54	0.46
1:A:187:TRP:HH2	1:C:223:PRO:HG3	1.79	0.46
1:A:572:PHE:N	1:A:572:PHE:HD1	2.13	0.46
1:A:576:VAL:HG11	1:A:591:LEU:CD2	2.45	0.46
1:B:716:VAL:HA	1:B:828:LEU:O	2.16	0.46
1:B:219:LEU:HD21	1:C:783:PRO:HG3	1.97	0.46
1:B:231:ASN:O	1:B:231:ASN:CG	2.52	0.46
1:B:671:ILE:HB	1:B:672:VAL:H	1.50	0.46
1:A:66:GLU:OE2	1:A:818:ARG:HD2	2.16	0.46
1:C:165:ALA:O	1:C:166:ILE:O	2.34	0.46
1:C:307:ARG:HA	1:C:310:LEU:HD12	1.98	0.46
1:C:49:TYR:HB3	1:C:52:ALA:HB3	1.98	0.46
1:C:66:GLU:O	1:C:69:MET:N	2.49	0.46
1:B:396:PHE:CD2	1:B:1003:VAL:HG21	2.50	0.46
1:C:545:TYR:CZ	1:C:1025:PHE:CZ	3.04	0.46
1:B:20:MET:HE2	1:B:377:LEU:HD12	1.98	0.46
1:A:988:PRO:O	1:A:989:LEU:C	2.54	0.46
1:B:575:MET:HA	1:B:626:ILE:HG22	1.96	0.46
1:B:778:LYS:O	1:B:779:TYR:CB	2.64	0.46
1:A:44:THR:C	1:A:45:ILE:HG13	2.35	0.46
1:B:429:GLU:HA	1:B:432:ARG:HB3	1.97	0.46
1:A:23:GLY:O	1:A:27:ILE:HG12	2.16	0.46
1:C:514:GLY:O	1:C:518:ARG:HG3	2.16	0.46
1:C:818:ARG:NH2	1:C:821:GLY:O	2.47	0.46
1:C:711:ASP:CG	1:C:712:MET:N	2.70	0.46
1:A:543:VAL:HG22	1:A:544:LEU:H	1.80	0.46
1:C:549:VAL:C	1:C:551:GLY:H	2.18	0.46
1:C:945:ILE:CG2	1:C:1022:VAL:HG11	2.46	0.46
1:A:428:LYS:HE3	1:A:429:GLU:OE2	2.15	0.46
1:C:228:GLN:NE2	1:C:230:LEU:O	2.49	0.46
1:C:446:ALA:C	1:C:448:VAL:H	2.20	0.46
1:A:521:GLU:N	1:A:522:LYS:HE2	2.31	0.46
1:C:759:VAL:O	1:C:760:ASN:CB	2.47	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:371:ALA:O	1:A:372:VAL:C	2.54	0.46
1:A:171:GLY:O	1:A:294:ALA:CB	2.64	0.46
1:C:367:ILE:HG13	1:C:368:PRO:N	2.30	0.46
1:B:686:ASP:CB	1:B:823:PRO:O	2.62	0.46
1:B:112:GLN:HB2	2:B:1055:HOH:O	2.16	0.45
1:C:114:ALA:HA	1:C:117:LEU:HD12	1.97	0.45
1:C:88:VAL:HG12	1:C:89:GLN:N	2.32	0.45
1:C:44:THR:O	1:C:45:ILE:C	2.54	0.45
1:B:907:LEU:O	1:B:910:ILE:HG22	2.16	0.45
1:B:939:ALA:O	1:B:943:ILE:HB	2.15	0.45
1:B:975:ILE:N	1:B:975:ILE:CD1	2.78	0.45
1:C:695:LEU:HD22	1:C:825:MET:CE	2.46	0.45
1:B:1005:THR:CG2	1:B:1005:THR:O	2.60	0.45
1:B:987:MET:HE2	1:B:991:ILE:HG23	1.98	0.45
1:C:939:ALA:O	1:C:943:ILE:CG1	2.64	0.45
1:C:491:ALA:O	1:C:493:CYS:N	2.38	0.45
1:B:597:TYR:CE1	1:B:654:ALA:CB	2.99	0.45
1:B:602:GLU:CD	1:B:650:ARG:HH21	2.19	0.45
1:A:427:PRO:HG3	1:A:497:LEU:O	2.16	0.45
1:B:45:ILE:CG2	1:B:46:SER:N	2.79	0.45
1:C:143:ILE:CG2	1:C:284:GLN:NE2	2.64	0.45
1:B:714:THR:HG22	1:B:831:ALA:N	2.30	0.45
1:B:170:SER:C	1:B:172:VAL:H	2.19	0.45
1:B:579:PRO:HD3	1:B:660:ASP:O	2.16	0.45
1:B:189:ASN:HD22	1:B:190:PRO:HD2	1.81	0.45
1:C:246:PHE:O	1:C:249:ILE:HG13	2.17	0.45
1:B:162:MET:CB	1:B:313:MET:SD	3.04	0.45
1:C:350:LEU:HD13	1:C:984:LEU:HD22	1.93	0.45
1:B:157:TYR:O	1:B:161:ASN:ND2	2.45	0.45
1:B:74:ASN:O	1:B:94:PHE:CB	2.62	0.45
1:B:193:LEU:HD23	1:B:265:VAL:HG21	1.98	0.45
1:C:111:LEU:HD13	1:C:111:LEU:C	2.35	0.45
1:C:162:MET:O	1:C:166:ILE:HG12	2.16	0.45
1:B:539:GLY:C	1:B:541:TYR:H	2.20	0.45
1:B:545:TYR:C	1:B:547:ILE:H	2.20	0.45
1:A:1018:ALA:HB1	1:A:1022:VAL:HG13	1.95	0.45
1:A:552:MET:C	1:A:554:TYR:N	2.69	0.45
1:C:1017:LEU:CD2	1:C:1017:LEU:O	2.56	0.45
1:C:907:LEU:HD23	1:C:1018:ALA:HA	1.99	0.45
1:C:343:THR:O	1:C:344:LEU:C	2.55	0.45
1:C:399:VAL:C	1:C:401:ALA:N	2.70	0.45
1:C:547:ILE:HA	1:C:550:VAL:HG12	1.98	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:633:ASP:CG	1:B:634:TRP:N	2.68	0.45
1:A:189:ASN:HB2	1:A:779:TYR:CZ	2.51	0.45
1:A:243:THR:HG22	1:A:268:ILE:CG2	2.46	0.45
1:C:626:ILE:HD13	1:C:627:ALA:H	1.80	0.45
1:A:569:GLN:O	1:A:570:GLY:C	2.55	0.45
1:B:513:PHE:N	1:B:513:PHE:CD1	2.83	0.45
1:C:159:ALA:HB1	1:C:181:GLN:HG3	1.98	0.45
1:A:913:LEU:C	1:A:915:ALA:H	2.20	0.45
1:C:535:LEU:HG	1:C:535:LEU:O	2.16	0.45
1:B:970:MET:HE2	1:B:970:MET:CA	2.45	0.45
1:A:696:THR:O	1:A:699:ARG:N	2.49	0.45
1:C:363:ARG:O	1:C:367:ILE:HG22	2.15	0.45
1:C:108:GLN:HG3	1:C:129:VAL:HG21	1.97	0.45
1:C:160:ALA:HA	1:C:767:ARG:CZ	2.47	0.45
1:B:972:LEU:HD13	1:B:976:LEU:CD2	2.41	0.45
1:A:1022:VAL:N	1:A:1023:PRO:HD2	2.31	0.45
1:A:552:MET:O	1:A:554:TYR:N	2.50	0.45
1:B:693:GLU:O	1:B:696:THR:OG1	2.26	0.45
1:B:705:GLU:C	1:B:707:ALA:N	2.70	0.45
1:B:602:GLU:O	1:B:604:ASN:N	2.50	0.45
1:B:97:GLY:O	1:B:98:THR:O	2.34	0.45
1:C:858:ASP:OD1	1:C:859:TRP:N	2.50	0.45
1:C:614:GLY:HA2	1:C:621:GLY:O	2.17	0.45
1:C:897:ILE:HG12	1:C:950:LYS:CE	2.47	0.45
1:C:685:ILE:CG1	1:C:687:GLN:OE1	2.61	0.45
1:C:140:VAL:HB	1:C:289:LEU:HB2	1.99	0.45
1:B:659:LYS:HD3	1:B:659:LYS:C	2.36	0.45
1:B:776:GLU:CG	1:B:777:ALA:N	2.79	0.45
1:A:294:ALA:HB3	1:A:297:ALA:HB3	1.97	0.45
1:A:740:GLY:O	1:A:794:ALA:N	2.43	0.45
1:C:218:GLN:HG2	1:C:232:ALA:O	2.17	0.45
1:C:114:ALA:O	1:C:115:MET:O	2.34	0.45
1:C:758:TYR:O	1:C:758:TYR:CG	2.70	0.45
1:C:1016:VAL:C	1:C:1018:ALA:H	2.16	0.45
1:C:940:LYS:HA	1:C:943:ILE:HG12	1.99	0.45
1:C:937:LEU:O	1:C:940:LYS:HB3	2.16	0.45
1:B:847:LEU:HD23	1:B:847:LEU:N	2.29	0.45
1:A:281:PHE:CZ	1:A:324:VAL:HG11	2.52	0.45
1:B:65:ILE:HG23	1:B:111:LEU:HD13	1.98	0.45
1:A:583:THR:HG22	1:A:584:GLN:N	2.31	0.45
1:B:188:MET:HE1	1:B:203:VAL:HG11	1.97	0.45
1:B:26:ALA:HB1	1:B:384:ALA:HB2	1.98	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:577:GLN:HB3	1:C:624:THR:CG2	2.42	0.45
1:A:11:PHE:C	1:A:13:TRP:H	2.18	0.45
1:A:607:GLU:HB2	1:A:631:LEU:O	2.17	0.45
1:C:714:THR:CG2	1:C:716:VAL:HG23	2.46	0.45
1:B:709:HIS:O	1:B:711:ASP:N	2.50	0.45
1:C:721:LEU:CD1	1:C:815:ARG:O	2.64	0.45
1:B:725:PRO:HB2	1:B:809:TRP:CZ3	2.51	0.45
1:B:680:PHE:C	1:B:680:PHE:CD1	2.90	0.45
1:B:569:GLN:OE1	1:B:569:GLN:HA	2.16	0.45
1:A:822:LEU:HA	1:A:823:PRO:HD3	1.32	0.45
1:C:162:MET:CB	1:C:313:MET:HE3	2.35	0.45
1:C:950:LYS:NZ	1:C:1030:ARG:NE	2.65	0.45
1:B:1018:ALA:O	1:B:1020:PHE:N	2.50	0.45
1:B:974:PRO:C	1:B:976:LEU:N	2.70	0.45
1:B:987:MET:CE	1:B:990:VAL:HB	2.47	0.45
1:B:418:ARG:NH2	1:B:970:MET:CG	2.79	0.45
1:C:987:MET:HA	1:C:1008:MET:HE1	1.99	0.45
1:B:863:SER:O	1:B:864:TYR:C	2.55	0.45
1:B:868:LEU:O	1:B:869:SER:C	2.55	0.45
1:A:1:MET:H3	1:A:2:PRO:HD2	1.75	0.45
1:A:492:LEU:HD12	1:A:492:LEU:HA	1.64	0.45
1:A:684:LEU:HD11	1:A:851:LEU:HD13	1.98	0.45
1:B:376:LEU:O	1:B:379:THR:N	2.49	0.45
1:A:65:ILE:O	1:A:68:ASN:CB	2.63	0.45
1:C:310:LEU:HD22	1:C:323:ILE:HD13	1.99	0.45
1:C:758:TYR:HA	1:C:772:TYR:HA	1.98	0.45
1:B:187:TRP:CZ3	1:B:774:MET:CE	2.94	0.45
1:C:774:MET:HG2	1:C:775:SER:N	2.31	0.45
1:C:779:TYR:CD2	1:C:779:TYR:N	2.83	0.45
1:B:987:MET:CE	1:B:987:MET:O	2.62	0.45
1:C:34:GLN:HA	1:C:333:VAL:CG1	2.47	0.45
1:C:14:VAL:CG1	1:C:15:ILE:N	2.79	0.45
1:B:687:GLN:CD	1:B:856:GLY:HA3	2.34	0.45
1:C:249:ILE:HD13	1:C:249:ILE:HG21	1.61	0.45
1:C:242:SER:O	1:C:243:THR:C	2.55	0.45
1:B:269:GLU:HB3	1:B:270:LEU:H	1.61	0.45
1:B:174:ASP:C	1:B:175:VAL:HG23	2.37	0.45
1:C:176:GLN:HE21	1:C:620:ARG:HH11	1.64	0.45
1:A:73:ASP:O	1:A:75:LEU:N	2.42	0.45
1:A:82:SER:HB2	1:A:816:LEU:HB2	1.99	0.45
1:C:104:GLN:CD	1:C:131:LYS:HE2	2.38	0.45
1:C:163:LYS:HG2	1:C:175:VAL:CG1	2.45	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:753:ALA:O	1:C:775:SER:CB	2.65	0.45
1:B:345:VAL:HG12	1:B:349:ILE:HD13	1.98	0.45
1:C:355:MET:HE1	1:C:977:MET:HG2	1.98	0.45
1:A:400:LEU:HD21	1:A:1003:VAL:HG22	1.98	0.45
1:A:713:LEU:CG	1:A:714:THR:H	2.30	0.45
1:C:395:MET:C	1:C:397:GLY:N	2.69	0.45
1:C:439:GLN:HG3	1:C:440:GLY:N	2.32	0.45
1:A:418:ARG:NH2	1:A:970:MET:HA	2.32	0.45
1:B:690:LEU:CB	1:B:694:LYS:HB2	2.38	0.45
1:B:775:SER:CB	1:B:780:ARG:HG3	2.46	0.45
1:B:271:GLY:HA3	1:B:275:TYR:OH	2.17	0.45
1:C:463:THR:CG2	1:C:464:GLY:H	2.28	0.45
1:A:372:VAL:O	1:A:373:PRO:C	2.55	0.45
1:C:680:PHE:HB2	1:C:859:TRP:HZ3	1.82	0.45
1:A:102:ILE:O	1:A:106:GLN:HG3	2.16	0.45
1:A:820:ASN:HB3	1:C:168:ARG:CZ	2.46	0.45
1:B:438:ILE:HD12	1:B:971:ARG:NH1	2.32	0.45
1:A:407:ASP:OD2	1:A:978:THR:HG21	2.17	0.45
1:A:897:ILE:HG21	1:A:950:LYS:CE	2.47	0.45
1:C:682:PHE:HE2	1:C:702:LEU:CD1	2.29	0.45
1:C:497:LEU:HD13	1:C:498:LYS:H	1.81	0.45
1:B:640:GLU:H	1:B:643:LYS:HG3	1.82	0.45
1:A:418:ARG:HH11	1:A:973:ARG:NE	2.14	0.45
1:B:762:PHE:HE1	1:B:764:ASP:HB2	1.82	0.45
1:A:219:LEU:HD12	1:A:232:ALA:HB3	1.99	0.45
1:B:819:TYR:CE1	1:B:860:THR:OG1	2.70	0.45
1:A:298:ASN:O	1:A:299:ALA:C	2.55	0.45
1:A:836:SER:OG	1:A:839:GLU:CG	2.62	0.45
1:A:208:LYS:HA	1:A:760:ASN:HD21	1.82	0.45
1:A:102:ILE:C	1:A:105:VAL:HG23	2.37	0.44
1:A:115:MET:N	1:A:116:PRO:CD	2.80	0.44
1:C:166:ILE:HD11	2:C:1075:HOH:O	2.05	0.44
1:B:341:VAL:HG23	1:B:395:MET:CE	2.47	0.44
1:B:640:GLU:N	1:B:643:LYS:HG3	2.32	0.44
1:B:643:LYS:C	1:B:647:ILE:HG13	2.38	0.44
1:A:330:THR:N	1:A:331:PRO:HD2	2.32	0.44
1:B:371:ALA:O	1:B:372:VAL:C	2.55	0.44
1:C:188:MET:HE1	1:C:200:PRO:CB	2.38	0.44
1:B:762:PHE:CE1	1:B:764:ASP:HB2	2.52	0.44
1:C:934:THR:HG22	1:C:1011:MET:SD	2.57	0.44
1:C:130:GLU:OE1	1:C:174:ASP:HB2	2.17	0.44
1:B:592:ASN:HA	1:B:595:THR:HG23	2.00	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:72:ILE:CG2	1:C:94:PHE:CZ	3.00	0.44
1:A:843:LEU:O	1:A:844:MET:C	2.56	0.44
1:A:846:GLN:HB2	1:A:846:GLN:HE21	1.60	0.44
1:A:94:PHE:HZ	1:A:107:VAL:HG22	1.82	0.44
1:C:58:GLN:NE2	1:C:82:SER:O	2.50	0.44
1:B:314:GLU:C	1:B:316:PHE:H	2.20	0.44
1:A:537:SER:O	1:A:538:THR:C	2.55	0.44
1:B:891:LEU:HD12	1:B:892:TYR:CD1	2.52	0.44
1:C:354:VAL:C	1:C:356:TYR:H	2.20	0.44
1:A:713:LEU:HB2	1:A:832:ALA:HA	1.90	0.44
1:C:418:ARG:NH2	1:C:948:PHE:CZ	2.85	0.44
1:A:562:SER:HB3	1:A:924:ASP:HB3	1.99	0.44
1:B:115:MET:HE2	1:B:115:MET:HA	1.98	0.44
1:A:790:TYR:CE1	1:A:800:PRO:CG	2.96	0.44
1:B:139:VAL:O	1:B:140:VAL:C	2.55	0.44
1:B:778:LYS:HZ2	1:B:778:LYS:HB3	1.82	0.44
1:C:335:ILE:HD13	1:C:634:TRP:CZ3	2.51	0.44
1:B:155:SER:O	1:B:156:ASP:C	2.55	0.44
1:C:657:GLN:C	1:C:659:LYS:N	2.71	0.44
1:A:393:LEU:HD13	1:A:466:ILE:HG23	1.98	0.44
1:C:873:ALA:O	1:C:876:LEU:N	2.50	0.44
1:A:356:TYR:C	1:A:358:PHE:H	2.21	0.44
1:C:323:ILE:HG22	1:C:324:VAL:O	2.17	0.44
1:C:758:TYR:CD1	1:C:758:TYR:N	2.83	0.44
1:A:1029:VAL:HG12	1:A:1030:ARG:N	2.21	0.44
1:A:545:TYR:HE1	1:A:907:LEU:HD11	1.82	0.44
1:C:527:TYR:O	1:C:531:VAL:HG13	2.17	0.44
1:C:912:ALA:O	1:C:914:LEU:O	2.34	0.44
1:C:948:PHE:O	1:C:952:LEU:HB2	2.16	0.44
1:B:696:THR:O	1:B:699:ARG:HB3	2.17	0.44
1:B:703:LEU:O	1:B:705:GLU:HB2	2.17	0.44
1:B:115:MET:HE1	1:B:127:VAL:HG11	2.00	0.44
1:A:207:ILE:HG22	1:A:207:ILE:O	2.17	0.44
1:C:931:LEU:O	1:C:935:ILE:HB	2.17	0.44
1:A:702:LEU:HD11	1:A:844:MET:HE2	1.99	0.44
1:B:740:GLY:O	1:B:794:ALA:HB2	2.17	0.44
1:C:801:PHE:CD1	1:C:804:PHE:HE1	2.36	0.44
1:A:678:THR:O	1:A:679:GLY:O	2.35	0.44
1:A:94:PHE:CZ	1:A:103:ALA:HB1	2.52	0.44
1:B:945:ILE:O	1:B:949:ALA:N	2.32	0.44
1:A:978:THR:C	1:A:980:LEU:N	2.70	0.44
1:C:685:ILE:HD11	1:C:687:GLN:CD	2.38	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:1018:ALA:HB1	1:A:1022:VAL:HG11	1.98	0.44
1:A:540:ARG:O	1:A:543:VAL:HG12	2.18	0.44
1:C:395:MET:O	1:C:397:GLY:N	2.50	0.44
1:B:835:LYS:HD2	1:B:839:GLU:OE1	2.18	0.44
1:B:44:THR:HG22	1:B:45:ILE:O	2.17	0.44
1:C:286:ALA:HB1	1:C:287:SER:H	1.48	0.44
1:B:520:PHE:O	1:B:523:SER:N	2.43	0.44
1:B:362:PHE:O	1:B:365:THR:N	2.43	0.44
1:B:785:ASP:O	1:B:788:ASP:N	2.47	0.44
1:B:804:PHE:O	1:B:805:SER:HB3	2.17	0.44
1:B:150:THR:O	1:B:151:GLN:C	2.55	0.44
1:A:340:VAL:HG13	1:A:399:VAL:HG23	1.96	0.44
1:B:188:MET:HB2	1:B:775:SER:HA	1.99	0.44
1:B:682:PHE:HD1	1:B:859:TRP:CZ3	2.36	0.44
1:B:79:SER:OG	1:B:79:SER:O	2.26	0.44
1:A:178:PHE:HD1	1:A:178:PHE:N	2.15	0.44
1:A:130:GLU:HB3	2:A:1074:HOH:O	2.17	0.44
1:A:687:GLN:HG2	1:C:316:PHE:CD2	2.49	0.44
1:A:820:ASN:HB3	1:C:168:ARG:NH1	2.33	0.44
1:C:181:GLN:HG2	1:C:769:LYS:CE	2.46	0.44
1:B:1021:PHE:HB3	1:B:1025:PHE:CE1	2.53	0.44
1:A:407:ASP:OD1	1:A:940:LYS:NZ	2.40	0.44
1:C:434:SER:O	1:C:438:ILE:HB	2.17	0.44
1:B:702:LEU:HD22	1:B:702:LEU:HA	1.78	0.44
1:A:307:ARG:NH1	1:A:325:TYR:CE2	2.86	0.44
1:B:26:ALA:O	1:B:30:LEU:CB	2.65	0.44
1:A:746:ILE:HD13	1:A:804:PHE:CE1	2.52	0.44
1:C:197:GLN:HB3	1:C:197:GLN:HE21	1.57	0.44
1:A:437:GLN:HG2	1:A:948:PHE:CE2	2.52	0.44
1:A:687:GLN:HB2	1:A:687:GLN:HE21	1.18	0.44
1:C:163:LYS:C	1:C:165:ALA:N	2.71	0.44
1:C:686:ASP:HB2	1:C:695:LEU:HD12	1.98	0.44
1:A:1020:PHE:C	1:A:1023:PRO:HD2	2.38	0.44
1:A:729:ILE:CD1	1:A:729:ILE:N	2.78	0.44
1:C:35:TYR:HB3	1:C:36:PRO:HD2	2.00	0.44
1:C:901:VAL:HG12	1:C:942:ALA:CB	2.47	0.44
1:A:971:ARG:C	1:A:974:PRO:HD2	2.38	0.44
1:A:323:ILE:HG12	1:A:325:TYR:CE1	2.49	0.44
1:A:621:GLY:C	1:A:623:ASN:H	2.21	0.44
1:B:53:ASP:HB2	1:B:56:THR:HB	1.99	0.44
1:A:521:GLU:HG2	1:A:521:GLU:O	2.18	0.44
1:C:262:LEU:HG	1:C:268:ILE:HD11	2.00	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:254:ASN:O	1:A:256:ASP:N	2.50	0.44
1:A:83:ASP:C	1:A:83:ASP:OD1	2.56	0.44
1:B:58:GLN:NE2	1:B:818:ARG:HH11	2.15	0.44
1:A:362:PHE:C	1:A:364:ALA:H	2.21	0.44
1:A:87:THR:HG21	1:A:620:ARG:NH2	2.33	0.44
1:A:946:VAL:O	1:A:946:VAL:HG12	2.18	0.44
1:C:169:THR:O	1:C:172:VAL:HG23	2.18	0.44
1:C:888:LEU:O	1:C:891:LEU:HB3	2.17	0.44
1:C:894:SER:C	1:C:896:SER:N	2.66	0.44
1:A:979:SER:O	1:A:983:ILE:HG22	2.17	0.44
1:C:696:THR:O	1:C:699:ARG:N	2.50	0.44
1:B:338:HIS:O	1:B:341:VAL:HG12	2.18	0.44
1:B:712:MET:SD	1:B:839:GLU:HB3	2.57	0.44
1:B:118:LEU:O	1:B:119:PRO:C	2.56	0.44
1:C:182:TYR:HA	1:C:271:GLY:O	2.18	0.44
1:B:682:PHE:HD1	1:B:859:TRP:CH2	2.35	0.44
1:C:467:TYR:C	1:C:469:GLN:N	2.71	0.44
1:C:538:THR:O	1:C:540:ARG:HG2	2.18	0.44
1:A:3:ASN:O	1:A:6:ILE:HD13	2.18	0.44
1:B:767:ARG:HG2	1:B:769:LYS:HE3	2.00	0.44
1:C:198:LEU:HA	1:C:792:ARG:NH2	2.33	0.44
1:B:378:GLY:O	1:B:381:ALA:HB3	2.18	0.44
1:C:124:GLN:HB3	1:C:758:TYR:CE2	2.50	0.44
1:C:87:THR:HG23	1:C:88:VAL:H	1.82	0.44
1:A:1024:VAL:CG1	1:A:1025:PHE:H	2.09	0.44
1:C:432:ARG:CG	1:C:432:ARG:NH1	2.62	0.44
1:C:1010:GLY:HA2	1:C:1013:THR:CG2	2.48	0.44
1:C:892:TYR:OH	1:C:943:ILE:HG23	2.17	0.44
1:A:649:MET:CE	1:A:653:ARG:NH2	2.80	0.44
1:A:594:VAL:HA	1:A:655:PHE:CZ	2.53	0.44
1:B:38:ILE:O	1:B:462:SER:HB2	2.18	0.44
1:A:313:MET:C	1:A:315:PRO:CD	2.85	0.44
1:A:3:ASN:HA	1:A:6:ILE:HD12	1.99	0.44
1:B:58:GLN:NE2	1:B:818:ARG:NH1	2.66	0.44
1:C:470:PHE:O	1:C:471:SER:C	2.55	0.44
1:C:163:LYS:O	1:C:166:ILE:CA	2.61	0.44
1:B:13:TRP:HA	1:B:13:TRP:HE3	1.80	0.44
1:B:534:ILE:HG23	1:B:541:TYR:CE2	2.53	0.44
1:C:832:ALA:HB1	1:C:833:PRO:CD	2.48	0.44
1:A:540:ARG:NH1	1:A:541:TYR:CZ	2.86	0.44
1:C:941:ASN:O	1:C:945:ILE:HG22	2.18	0.44
1:C:928:GLN:O	1:C:932:LEU:HG	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:520:PHE:O	1:A:522:LYS:N	2.51	0.44
1:A:339:GLU:HA	1:A:342:LYS:HG2	1.99	0.44
1:A:722:GLU:HA	2:A:1060:HOH:O	2.17	0.44
1:A:256:ASP:HB2	1:A:258:SER:HB3	1.99	0.44
1:A:935:ILE:O	1:A:935:ILE:CG2	2.64	0.44
1:A:525:HIS:O	1:A:526:HIS:C	2.53	0.44
1:B:881:LEU:HD21	1:B:905:VAL:HG21	1.99	0.43
1:A:541:TYR:O	1:A:543:VAL:O	2.36	0.43
1:B:921:LEU:CD2	1:B:1005:THR:CG2	2.96	0.43
1:B:699:ARG:NH2	1:B:722:GLU:OE1	2.51	0.43
1:C:267:LYS:HE3	1:C:267:LYS:HB2	1.71	0.43
1:C:692:HIS:HE1	1:C:721:LEU:HD21	1.83	0.43
1:A:216:ALA:O	1:A:217:GLY:O	2.36	0.43
1:A:116:PRO:CA	1:A:117:LEU:HD22	2.48	0.43
1:B:1031:ARG:O	1:B:1035:ARG:HB2	2.17	0.43
1:C:711:ASP:CG	1:C:712:MET:H	2.22	0.43
1:C:713:LEU:HD11	1:C:835:LYS:H	1.82	0.43
1:C:191:ASN:HA	1:C:194:ASN:OD1	2.18	0.43
1:B:885:PHE:HE2	1:B:898:PRO:HB2	1.83	0.43
1:C:34:GLN:C	1:C:35:TYR:CG	2.91	0.43
1:C:379:THR:HG23	1:C:477:ALA:HB2	1.99	0.43
1:C:403:GLY:C	1:C:405:LEU:H	2.21	0.43
1:A:958:LYS:HB3	1:A:959:GLY:H	1.64	0.43
1:C:226:LYS:HG2	2:C:1072:HOH:O	2.17	0.43
1:A:583:THR:CG2	1:A:584:GLN:N	2.80	0.43
1:B:612:VAL:HG23	1:B:626:ILE:HG13	2.00	0.43
1:A:455:PRO:O	1:A:876:LEU:HD13	2.18	0.43
1:C:72:ILE:CG2	1:C:94:PHE:HE2	2.23	0.43
1:C:262:LEU:O	1:C:264:ASP:N	2.51	0.43
1:B:818:ARG:HH11	1:B:818:ARG:HG3	1.82	0.43
1:B:732:ASP:HB2	1:B:735:LYS:HG3	2.00	0.43
1:A:72:ILE:O	1:A:73:ASP:O	2.37	0.43
1:C:51:GLY:O	1:C:53:ASP:OD2	2.36	0.43
1:B:453:PHE:CZ	1:B:474:ILE:HD13	2.53	0.43
1:B:408:ASP:C	1:B:410:ILE:H	2.20	0.43
1:B:538:THR:C	1:B:540:ARG:H	2.20	0.43
1:B:538:THR:O	1:B:540:ARG:N	2.51	0.43
1:C:686:ASP:C	1:C:686:ASP:OD1	2.55	0.43
1:A:943:ILE:O	1:A:947:GLU:HB2	2.17	0.43
1:B:999:ALA:O	1:B:1003:VAL:HG23	2.19	0.43
1:B:987:MET:HB3	1:B:988:PRO:HD3	1.99	0.43
1:B:699:ARG:O	1:B:700:ASN:HB2	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:362:PHE:C	1:B:364:ALA:N	2.72	0.43
1:B:801:PHE:HA	1:B:804:PHE:CE1	2.54	0.43
1:B:922:THR:HG1	1:B:923:ASN:H	1.62	0.43
1:C:764:ASP:OD2	1:C:765:ARG:NE	2.51	0.43
1:B:145:THR:O	1:B:146:ASP:CG	2.56	0.43
1:C:532:GLY:O	1:C:534:ILE:HD12	2.19	0.43
1:C:790:TYR:CE1	1:C:800:PRO:HB3	2.52	0.43
1:C:719:ASN:O	1:C:721:LEU:N	2.52	0.43
1:B:185:ARG:NH1	1:B:772:TYR:HB3	2.33	0.43
1:A:178:PHE:CD1	1:A:178:PHE:N	2.86	0.43
1:C:681:ASP:OD2	1:C:828:LEU:HD11	2.18	0.43
1:C:35:TYR:HD2	1:C:392:THR:HG1	1.65	0.43
1:B:110:LYS:HD3	1:B:110:LYS:HA	1.62	0.43
1:C:591:LEU:HA	1:C:591:LEU:HD13	1.67	0.43
1:B:225:VAL:CG2	1:C:781:MET:HE3	2.37	0.43
1:B:183:ALA:N	1:B:271:GLY:O	2.52	0.43
1:C:841:MET:O	1:C:842:GLU:C	2.56	0.43
1:C:881:LEU:O	1:C:882:ILE:C	2.57	0.43
1:A:778:LYS:HE2	1:A:778:LYS:HB2	1.48	0.43
1:A:818:ARG:NH2	1:A:823:PRO:HG3	2.33	0.43
1:B:9:PRO:O	1:B:13:TRP:N	2.42	0.43
1:C:896:SER:C	1:C:898:PRO:HD2	2.39	0.43
1:C:356:TYR:C	1:C:358:PHE:N	2.72	0.43
1:C:850:LYS:O	1:C:851:LEU:C	2.57	0.43
1:A:649:MET:HE3	1:A:653:ARG:CZ	2.46	0.43
1:C:238:THR:CG2	1:C:239:ARG:N	2.82	0.43
1:B:831:ALA:C	1:B:833:PRO:HD2	2.39	0.43
1:A:988:PRO:C	1:A:990:VAL:N	2.67	0.43
1:B:326:PRO:HB2	1:B:327:TYR:H	1.55	0.43
1:B:234:ILE:O	1:B:234:ILE:CG2	2.50	0.43
1:C:764:ASP:CB	1:C:765:ARG:HD2	2.49	0.43
1:A:857:TYR:O	1:A:857:TYR:CG	2.71	0.43
1:B:58:GLN:HA	1:B:62:THR:CB	2.48	0.43
1:B:18:ILE:HG22	1:B:19:ILE:N	2.34	0.43
1:B:109:ASN:ND2	1:B:112:GLN:HE22	2.14	0.43
1:C:82:SER:CB	1:C:88:VAL:HA	2.19	0.43
1:C:44:THR:HG22	1:C:91:THR:CA	2.47	0.43
1:C:91:THR:HB	1:C:91:THR:CA	2.20	0.43
1:B:1030:ARG:C	1:B:1032:ARG:H	2.22	0.43
1:B:904:VAL:C	1:B:906:PRO:HD2	2.39	0.43
1:C:695:LEU:O	1:C:696:THR:O	2.37	0.43
1:A:904:VAL:HG21	1:A:942:ALA:CB	2.45	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:396:PHE:HE2	1:B:999:ALA:HB1	1.82	0.43
1:C:4:PHE:CG	1:C:8:ARG:NH2	2.87	0.43
1:B:115:MET:HA	1:B:115:MET:HE3	2.00	0.43
1:B:207:ILE:HG22	1:B:759:VAL:HG11	1.97	0.43
1:A:454:VAL:N	1:A:455:PRO:HD2	2.33	0.43
1:B:776:GLU:HG2	1:B:777:ALA:H	1.83	0.43
1:B:819:TYR:O	1:B:822:LEU:N	2.51	0.43
1:A:222:THR:HG22	1:A:223:PRO:CD	2.48	0.43
1:B:873:ALA:C	1:B:875:SER:N	2.71	0.43
1:C:768:VAL:O	1:C:768:VAL:CG1	2.66	0.43
1:A:113:LEU:C	1:A:116:PRO:HD2	2.39	0.43
1:A:65:ILE:HG13	1:A:66:GLU:H	1.83	0.43
1:A:818:ARG:HG2	2:A:1062:HOH:O	2.16	0.43
1:C:118:LEU:CD1	1:C:118:LEU:N	2.82	0.43
1:B:415:ASN:O	1:B:434:SER:OG	2.28	0.43
1:C:685:ILE:O	1:C:685:ILE:HG13	2.08	0.43
1:C:544:LEU:HD12	1:C:1021:PHE:HZ	1.83	0.43
1:C:17:ILE:HD12	1:C:17:ILE:N	2.34	0.43
1:B:639:GLY:O	1:B:641:GLU:O	2.37	0.43
1:A:574:THR:HA	1:A:665:ALA:HA	2.01	0.43
1:A:418:ARG:O	1:A:421:ALA:HB3	2.19	0.43
1:B:245:GLU:O	1:B:248:LYS:N	2.51	0.43
1:A:809:TRP:O	1:A:810:GLU:CB	2.51	0.43
1:C:578:LEU:HA	1:C:661:ALA:HB1	2.00	0.43
1:A:11:PHE:O	1:A:13:TRP:N	2.52	0.43
1:C:534:ILE:H	1:C:534:ILE:HG13	1.55	0.43
1:C:878:ALA:C	1:C:880:SER:N	2.70	0.43
1:A:43:VAL:HA	1:A:130:GLU:O	2.19	0.43
1:A:66:GLU:CD	2:A:1054:HOH:O	2.56	0.43
1:A:822:LEU:CD2	1:A:822:LEU:N	2.81	0.43
1:B:345:VAL:CA	1:B:348:ILE:HD12	2.43	0.43
1:B:228:GLN:HE21	1:B:228:GLN:CA	2.32	0.43
1:A:2:PRO:O	1:A:6:ILE:N	2.51	0.43
1:A:359:LEU:HA	1:A:359:LEU:HD13	1.81	0.43
1:A:13:TRP:CZ2	1:A:492:LEU:HD11	2.54	0.43
1:B:231:ASN:HD22	1:B:232:ALA:N	2.17	0.43
1:B:1022:VAL:HB	1:B:1026:PHE:CZ	2.54	0.43
1:B:492:LEU:O	1:B:496:MET:HB2	2.18	0.43
1:C:728:LYS:CG	1:C:729:ILE:N	2.76	0.43
1:B:892:TYR:CG	1:B:897:ILE:HD11	2.54	0.43
1:C:529:ASP:O	1:C:531:VAL:O	2.36	0.43
1:C:14:VAL:CG1	1:C:15:ILE:H	2.31	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:367:ILE:HD13	1:A:489:THR:HG23	2.00	0.43
1:B:144:ASN:ND2	1:B:144:ASN:O	2.52	0.43
1:C:591:LEU:HD23	1:C:613:ASN:HB2	1.99	0.43
1:B:327:TYR:HB2	1:B:628:PHE:HB3	1.99	0.43
1:C:184:MET:HE1	1:C:270:LEU:N	2.34	0.43
1:B:556:PHE:C	1:B:558:ARG:H	2.22	0.43
1:A:166:ILE:HD13	1:A:166:ILE:H	1.78	0.43
1:C:653:ARG:HG3	1:C:654:ALA:N	2.34	0.43
1:A:845:GLU:CD	1:A:859:TRP:HE1	2.22	0.43
1:C:158:VAL:HG12	1:C:159:ALA:N	2.29	0.43
1:C:163:LYS:HB2	2:C:1078:HOH:O	2.18	0.43
1:C:166:ILE:HG21	1:C:291:ILE:HD11	2.01	0.43
1:B:411:VAL:HG12	1:B:974:PRO:HB3	2.00	0.43
1:B:489:THR:HB	1:B:490:PRO:CD	2.49	0.43
1:A:1023:PRO:C	1:A:1024:VAL:O	2.58	0.43
1:A:531:VAL:O	1:A:534:ILE:HG13	2.19	0.43
1:C:194:ASN:HB3	2:C:1059:HOH:O	2.19	0.43
1:C:778:LYS:CD	1:C:779:TYR:CE2	3.01	0.43
1:A:394:THR:CG2	1:A:395:MET:HE2	2.48	0.43
1:B:173:GLY:H	1:B:294:ALA:H	1.65	0.43
1:C:247:GLY:O	1:C:263:ARG:HB2	2.19	0.43
1:B:819:TYR:CZ	1:B:860:THR:OG1	2.72	0.43
1:B:328:ASP:OD2	1:B:330:THR:HB	2.19	0.43
1:A:197:GLN:HA	1:A:798:MET:HE2	2.00	0.43
1:A:182:TYR:CB	1:A:270:LEU:HD12	2.49	0.43
1:C:47:ALA:HB1	1:C:122:VAL:CG1	2.49	0.43
1:A:108:GLN:HG3	1:B:112:GLN:NE2	2.30	0.42
1:A:59:ASP:HB3	1:C:763:ILE:CD1	2.47	0.42
1:A:66:GLU:O	1:A:68:ASN:N	2.52	0.42
1:C:169:THR:CG2	1:C:169:THR:C	2.87	0.42
1:C:92:LEU:HD22	1:C:107:VAL:CG2	2.47	0.42
1:C:354:VAL:HG13	1:C:980:LEU:HD23	2.01	0.42
1:C:701:GLN:O	1:C:702:LEU:C	2.58	0.42
1:B:48:SER:C	1:B:49:TYR:CG	2.93	0.42
1:B:760:ASN:O	1:B:771:VAL:HB	2.19	0.42
1:A:449:LEU:O	1:A:451:ALA:O	2.37	0.42
1:B:858:ASP:OD1	1:B:859:TRP:N	2.52	0.42
1:B:330:THR:CG2	1:B:330:THR:O	2.67	0.42
1:A:308:ALA:O	1:A:311:ALA:HB3	2.19	0.42
1:A:83:ASP:OD1	1:A:84:SER:N	2.52	0.42
1:C:532:GLY:O	1:C:534:ILE:N	2.52	0.42
1:B:709:HIS:C	1:B:711:ASP:N	2.72	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:57:VAL:HG12	1:A:58:GLN:CA	2.49	0.42
1:C:159:ALA:CB	1:C:181:GLN:HG3	2.49	0.42
1:C:54:ALA:CB	1:C:84:SER:HB2	2.22	0.42
1:A:351:VAL:HG13	1:A:410:ILE:HD11	2.00	0.42
1:A:978:THR:HG23	1:A:979:SER:N	2.33	0.42
1:B:318:PRO:HD2	1:B:321:LEU:HD22	2.00	0.42
1:A:545:TYR:HB2	1:A:1021:PHE:CZ	2.53	0.42
1:A:947:GLU:O	1:A:951:ASP:CB	2.63	0.42
1:C:484:VAL:HG13	1:C:488:LEU:HB3	2.00	0.42
1:B:45:ILE:HD13	1:B:65:ILE:CG2	2.50	0.42
1:B:418:ARG:NH2	1:B:970:MET:HG3	2.35	0.42
1:A:219:LEU:HD22	1:B:781:MET:O	2.18	0.42
1:A:453:PHE:CZ	1:A:474:ILE:HG21	2.53	0.42
1:A:337:ILE:O	1:A:339:GLU:O	2.38	0.42
1:C:409:ALA:O	1:C:410:ILE:O	2.37	0.42
1:A:208:LYS:HA	1:A:760:ASN:ND2	2.34	0.42
1:C:532:GLY:C	1:C:534:ILE:N	2.71	0.42
1:A:156:ASP:O	1:A:157:TYR:C	2.55	0.42
1:A:108:GLN:OE1	1:B:112:GLN:NE2	2.53	0.42
1:C:123:GLN:HB3	1:C:124:GLN:H	1.68	0.42
1:B:404:LEU:O	1:B:406:VAL:N	2.53	0.42
1:A:532:GLY:HA2	1:A:965:LEU:HD11	2.01	0.42
1:C:344:LEU:O	1:C:348:ILE:HG23	2.19	0.42
1:C:524:THR:O	1:C:527:TYR:N	2.50	0.42
1:C:547:ILE:O	1:C:551:GLY:N	2.52	0.42
1:A:593:GLU:O	1:A:594:VAL:C	2.55	0.42
1:A:276:ASP:HB3	1:C:222:THR:CG2	2.42	0.42
1:C:983:ILE:HG23	1:C:1008:MET:HG3	2.01	0.42
1:A:937:LEU:HD12	1:A:1011:MET:SD	2.59	0.42
1:B:863:SER:C	1:B:865:GLN:N	2.71	0.42
1:B:715:SER:O	1:B:716:VAL:C	2.57	0.42
1:A:702:LEU:HD11	1:A:844:MET:HE3	2.01	0.42
1:A:471:SER:O	1:A:472:ILE:C	2.57	0.42
1:A:948:PHE:CD2	1:A:948:PHE:N	2.86	0.42
1:C:21:LEU:O	1:C:24:GLY:N	2.50	0.42
1:B:1004:GLY:O	1:B:1007:VAL:HG12	2.18	0.42
1:C:750:LEU:HA	1:C:750:LEU:HD23	1.53	0.42
1:A:25:LEU:C	1:A:25:LEU:HD13	2.40	0.42
1:C:894:SER:OG	1:C:897:ILE:N	2.33	0.42
1:B:885:PHE:CD2	1:B:898:PRO:HB2	2.55	0.42
1:C:417:GLU:OE2	1:C:420:MET:CE	2.67	0.42
1:C:491:ALA:C	1:C:493:CYS:H	2.22	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:562:SER:OG	1:A:563:PHE:N	2.51	0.42
1:B:114:ALA:O	1:B:115:MET:C	2.58	0.42
1:A:455:PRO:HG3	1:A:880:SER:HB2	2.02	0.42
1:B:778:LYS:HZ2	1:B:778:LYS:H	1.66	0.42
1:C:144:ASN:HA	1:C:320:GLY:O	2.20	0.42
1:B:671:ILE:H	1:B:671:ILE:HG12	1.71	0.42
1:C:18:ILE:O	1:C:19:ILE:C	2.56	0.42
1:B:870:GLY:O	1:B:872:GLN:N	2.52	0.42
1:A:116:PRO:HB2	1:A:117:LEU:HD22	2.02	0.42
1:A:407:ASP:O	1:A:411:VAL:HG23	2.20	0.42
1:C:775:SER:HG	1:C:789:TRP:HZ2	1.66	0.42
1:B:396:PHE:O	1:B:399:VAL:N	2.44	0.42
1:C:1021:PHE:N	1:C:1023:PRO:HD2	2.35	0.42
1:A:995:ALA:O	1:A:996:GLY:C	2.57	0.42
1:A:225:VAL:CG2	1:B:778:LYS:NZ	2.80	0.42
1:C:281:PHE:O	1:C:282:ASN:C	2.57	0.42
1:C:305:ALA:O	1:C:306:ILE:C	2.55	0.42
1:C:44:THR:HA	1:C:91:THR:HA	2.01	0.42
1:B:12:ALA:O	1:B:13:TRP:C	2.58	0.42
1:B:413:VAL:C	1:B:415:ASN:H	2.23	0.42
1:B:314:GLU:C	1:B:316:PHE:N	2.72	0.42
1:C:545:TYR:CZ	1:C:1021:PHE:CG	3.08	0.42
1:C:417:GLU:CB	1:C:973:ARG:HH12	2.32	0.42
1:B:712:MET:HE3	1:B:712:MET:HA	2.01	0.42
1:B:126:GLY:C	1:B:127:VAL:HG23	2.39	0.42
1:B:970:MET:HA	1:B:970:MET:CE	2.47	0.42
1:C:457:ALA:CB	1:C:468:ARG:CA	2.93	0.42
1:A:515:TRP:HD1	1:A:516:PHE:HB2	1.84	0.42
1:B:578:LEU:HD13	1:B:661:ALA:HB2	2.00	0.42
1:B:915:ALA:C	1:B:917:THR:H	2.23	0.42
1:A:47:ALA:HB3	1:A:88:VAL:CG2	2.50	0.42
1:C:55:LYS:CE	1:C:59:ASP:OD1	2.60	0.42
1:B:182:TYR:HD1	1:B:271:GLY:O	2.02	0.42
1:A:197:GLN:HA	1:A:798:MET:CE	2.49	0.42
1:B:472:ILE:O	1:B:473:THR:C	2.55	0.42
1:C:685:ILE:HD12	1:C:686:ASP:C	2.39	0.42
1:A:534:ILE:HD12	1:A:540:ARG:HH12	1.85	0.42
1:A:547:ILE:O	1:A:551:GLY:N	2.47	0.42
1:C:702:LEU:HD12	1:C:851:LEU:HD21	2.02	0.42
1:C:910:ILE:HG23	1:C:1013:THR:OG1	2.18	0.42
1:C:12:ALA:C	1:C:14:VAL:H	2.23	0.42
1:A:924:ASP:O	1:A:927:PHE:HB3	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:596:HIS:C	1:A:598:TYR:N	2.65	0.42
1:B:578:LEU:HB3	1:B:579:PRO:HD2	2.00	0.42
1:B:683:GLU:O	1:B:857:TYR:HA	2.18	0.42
1:C:331:PRO:O	1:C:332:PHE:C	2.56	0.42
1:A:105:VAL:HB	1:A:106:GLN:H	1.63	0.42
1:A:820:ASN:O	1:A:822:LEU:CD2	2.68	0.42
1:C:123:GLN:C	1:C:125:GLN:N	2.73	0.42
1:B:407:ASP:O	1:B:408:ASP:O	2.38	0.42
1:B:543:VAL:HG12	1:B:543:VAL:O	2.20	0.42
1:C:696:THR:HG22	1:C:699:ARG:HH12	1.85	0.42
1:C:777:ALA:HA	1:C:780:ARG:CZ	2.50	0.42
1:B:898:PRO:C	1:B:900:SER:H	2.23	0.42
1:C:379:THR:HB	1:C:398:MET:CE	2.47	0.42
1:C:489:THR:N	1:C:490:PRO:CD	2.81	0.42
1:A:187:TRP:CH2	1:C:223:PRO:HG3	2.55	0.42
1:A:635:ALA:C	1:A:637:ARG:N	2.73	0.42
1:B:463:THR:HA	1:B:466:ILE:HG13	2.00	0.42
1:C:352:PHE:CD1	1:C:369:THR:HG21	2.55	0.42
1:B:873:ALA:HB3	1:B:874:PRO:CD	2.50	0.42
1:C:666:PHE:CD2	1:C:666:PHE:C	2.92	0.42
1:A:180:SER:O	1:A:181:GLN:HB2	2.20	0.42
1:B:455:PRO:C	1:B:457:ALA:N	2.72	0.42
1:C:857:TYR:C	1:C:857:TYR:CD1	2.92	0.42
1:A:370:ILE:O	1:A:370:ILE:HG22	2.19	0.42
1:A:104:GLN:HB2	1:A:131:LYS:NZ	2.35	0.42
1:A:983:ILE:HD13	1:A:1008:MET:SD	2.60	0.42
1:A:983:ILE:CG1	1:A:984:LEU:N	2.81	0.42
1:C:775:SER:HB3	1:C:780:ARG:HD3	2.02	0.42
1:A:728:LYS:HD2	1:C:235:ILE:CG2	2.49	0.42
1:C:478:MET:O	1:C:481:SER:HB3	2.19	0.42
1:C:549:VAL:O	1:C:550:VAL:C	2.57	0.42
1:C:17:ILE:O	1:C:20:MET:HB2	2.20	0.42
1:B:653:ARG:C	1:B:654:ALA:O	2.55	0.42
1:A:186:ILE:HD13	1:A:262:LEU:HD21	2.02	0.42
1:B:674:LEU:CD1	1:B:860:THR:HG21	2.43	0.42
1:C:536:ARG:C	1:C:538:THR:H	2.22	0.42
1:A:469:GLN:O	1:A:473:THR:OG1	2.31	0.42
1:C:986:VAL:HG12	1:C:986:VAL:O	2.20	0.42
1:C:816:LEU:HA	1:C:816:LEU:HD23	1.83	0.42
1:C:50:PRO:O	1:C:52:ALA:N	2.49	0.42
1:B:470:PHE:CD2	1:B:929:VAL:HG11	2.55	0.42
1:B:1021:PHE:O	1:B:1024:VAL:HB	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:348:ILE:O	1:A:351:VAL:N	2.53	0.42
1:C:415:ASN:OD1	1:C:418:ARG:CZ	2.67	0.42
1:A:653:ARG:O	1:A:655:PHE:N	2.52	0.42
1:B:68:ASN:HD22	1:B:114:ALA:HB2	1.85	0.42
1:A:753:ALA:HB3	1:A:754:TRP:H	1.61	0.42
1:A:754:TRP:CZ3	1:A:780:ARG:HA	2.54	0.42
1:C:865:GLN:O	1:C:868:LEU:O	2.38	0.42
1:B:808:ARG:HB3	1:B:808:ARG:HH21	1.85	0.42
1:A:571:VAL:HG12	1:A:629:VAL:O	2.19	0.42
1:C:922:THR:HG22	1:C:923:ASN:N	2.26	0.42
1:A:515:TRP:C	1:A:515:TRP:CD1	2.93	0.42
1:C:246:PHE:O	1:C:249:ILE:N	2.33	0.42
1:B:841:MET:O	1:B:845:GLU:HB2	2.20	0.42
1:A:760:ASN:O	1:A:771:VAL:HB	2.19	0.42
1:B:336:SER:O	1:B:392:THR:HG22	2.20	0.42
1:C:880:SER:O	1:C:884:VAL:HG23	2.20	0.42
1:A:104:GLN:O	1:A:105:VAL:C	2.57	0.41
1:B:474:ILE:O	1:B:475:VAL:C	2.59	0.41
1:B:1021:PHE:HB3	1:B:1025:PHE:HE1	1.84	0.41
1:B:544:LEU:O	1:B:547:ILE:HB	2.19	0.41
1:B:941:ASN:O	1:B:942:ALA:C	2.58	0.41
1:B:972:LEU:HD21	1:B:1019:ILE:HG12	2.02	0.41
1:A:1015:THR:O	1:A:1017:LEU:N	2.53	0.41
1:C:353:LEU:O	1:C:356:TYR:HB3	2.19	0.41
1:C:1015:THR:O	1:C:1019:ILE:HB	2.20	0.41
1:C:904:VAL:O	1:C:905:VAL:C	2.58	0.41
1:A:753:ALA:O	1:A:774:MET:CG	2.68	0.41
1:A:605:ASN:O	1:A:632:LYS:N	2.52	0.41
1:B:462:SER:OG	1:B:865:GLN:CD	2.58	0.41
1:B:644:VAL:O	1:B:645:GLU:C	2.58	0.41
1:A:198:LEU:HD22	1:A:202:ASP:HB3	2.00	0.41
1:A:466:ILE:O	1:A:469:GLN:N	2.50	0.41
1:A:114:ALA:C	1:A:116:PRO:HD2	2.41	0.41
1:B:354:VAL:O	1:B:358:PHE:HB2	2.20	0.41
1:B:544:LEU:HD22	1:B:1021:PHE:CZ	2.54	0.41
1:A:355:MET:HE1	1:A:410:ILE:HA	2.02	0.41
1:C:699:ARG:HB3	1:C:825:MET:HE3	2.01	0.41
1:A:545:TYR:HB2	1:A:1021:PHE:HE1	1.76	0.41
1:A:894:SER:CB	1:A:897:ILE:HD13	2.50	0.41
1:C:375:VAL:HB	1:C:405:LEU:HD13	2.02	0.41
1:C:375:VAL:H	1:C:375:VAL:HG23	1.64	0.41
1:C:417:GLU:O	1:C:420:MET:HB3	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:527:TYR:O	1:C:529:ASP:N	2.53	0.41
1:B:648:THR:O	1:B:652:THR:N	2.40	0.41
1:A:144:ASN:ND2	1:A:320:GLY:O	2.53	0.41
1:A:330:THR:CG2	1:A:334:LYS:HE2	2.47	0.41
1:B:352:PHE:HE1	1:B:365:THR:HG23	1.84	0.41
1:A:578:LEU:CD2	1:A:587:THR:HA	2.37	0.41
1:A:621:GLY:C	1:A:623:ASN:N	2.73	0.41
1:B:47:ALA:HB3	1:B:88:VAL:CG2	2.50	0.41
1:B:47:ALA:CB	1:B:61:VAL:HG21	2.50	0.41
1:A:211:ASN:ND2	1:A:760:ASN:OD1	2.53	0.41
1:C:77:TYR:CE1	1:C:860:THR:OG1	2.68	0.41
1:A:61:VAL:HG13	1:A:118:LEU:CD1	2.46	0.41
1:B:410:ILE:O	1:B:413:VAL:HG12	2.20	0.41
1:A:831:ALA:HA	1:A:840:ALA:HB1	2.01	0.41
1:C:973:ARG:N	1:C:974:PRO:CD	2.83	0.41
1:C:485:ALA:HA	1:C:489:THR:OG1	2.21	0.41
1:A:594:VAL:HA	1:A:655:PHE:HE2	1.85	0.41
1:A:596:HIS:O	1:A:599:LEU:O	2.37	0.41
1:B:144:ASN:H	1:B:144:ASN:HD22	1.68	0.41
1:A:185:ARG:HD3	1:A:272:GLY:O	2.20	0.41
1:C:673:GLU:O	1:C:674:LEU:CB	2.67	0.41
1:A:988:PRO:HB2	1:A:989:LEU:H	1.57	0.41
1:B:84:SER:O	1:B:86:GLY:N	2.54	0.41
1:A:879:ILE:HG13	1:A:879:ILE:H	1.64	0.41
1:A:686:ASP:HB2	1:A:823:PRO:HB2	2.02	0.41
1:A:690:LEU:CD1	1:A:854:GLY:HA3	2.20	0.41
1:B:468:ARG:HA	1:B:471:SER:HB2	2.01	0.41
1:B:961:ILE:O	1:B:965:LEU:CB	2.68	0.41
1:A:978:THR:O	1:A:980:LEU:N	2.53	0.41
1:C:914:LEU:HA	1:C:917:THR:OG1	2.20	0.41
1:A:583:THR:O	1:A:586:ARG:N	2.54	0.41
1:B:730:ASP:O	1:B:805:SER:HA	2.20	0.41
1:B:750:LEU:HB2	1:B:801:PHE:HE1	1.82	0.41
1:C:144:ASN:CG	1:C:149:MET:HG3	2.40	0.41
1:C:533:GLY:HA3	2:C:1068:HOH:O	2.20	0.41
1:A:683:GLU:OE1	1:A:826:GLU:HB2	2.20	0.41
1:C:680:PHE:HB2	1:C:859:TRP:CZ3	2.55	0.41
1:B:732:ASP:O	1:B:734:GLU:N	2.53	0.41
1:B:669:PRO:HB2	1:B:670:ALA:H	1.65	0.41
1:A:72:ILE:CG1	1:A:107:VAL:HA	2.51	0.41
1:A:72:ILE:HG13	1:A:106:GLN:HB2	2.02	0.41
1:B:404:LEU:HD21	1:B:937:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:405:LEU:HD13	1:A:405:LEU:H	1.85	0.41
1:C:775:SER:OG	1:C:789:TRP:HZ2	2.03	0.41
1:B:986:VAL:C	1:B:988:PRO:HD2	2.39	0.41
1:C:544:LEU:HD12	1:C:1021:PHE:CZ	2.56	0.41
1:C:395:MET:O	1:C:396:PHE:C	2.58	0.41
1:A:493:CYS:O	1:A:497:LEU:HB2	2.21	0.41
1:A:307:ARG:NH2	1:A:328:ASP:OD2	2.49	0.41
1:B:788:ASP:N	1:B:788:ASP:OD1	2.52	0.41
1:A:44:THR:C	1:A:45:ILE:CG1	2.89	0.41
1:B:43:VAL:O	1:B:92:LEU:N	2.42	0.41
1:A:294:ALA:HB3	1:A:297:ALA:CB	2.51	0.41
1:C:253:VAL:HG12	1:C:259:ARG:HG3	2.03	0.41
1:C:681:ASP:OD2	1:C:828:LEU:CD1	2.68	0.41
1:A:116:PRO:N	2:A:1072:HOH:O	2.54	0.41
1:C:894:SER:OG	1:C:897:ILE:HG13	2.20	0.41
1:B:482:VAL:HG13	1:B:483:LEU:HD23	2.02	0.41
1:C:193:LEU:HA	1:C:193:LEU:HD23	1.86	0.41
1:B:988:PRO:C	1:B:990:VAL:H	2.24	0.41
1:B:989:LEU:CA	1:B:992:SER:HB2	2.50	0.41
1:C:425:LEU:H	1:C:426:PRO:HD3	1.84	0.41
1:C:528:THR:O	1:C:528:THR:HG22	2.20	0.41
1:A:126:GLY:HA3	1:B:116:PRO:HB3	2.01	0.41
1:C:143:ILE:HA	1:C:143:ILE:HD13	1.26	0.41
1:B:763:ILE:HD11	1:C:59:ASP:CB	2.50	0.41
1:A:298:ASN:O	1:A:302:THR:HG23	2.20	0.41
1:B:498:LYS:HB3	1:B:498:LYS:HE2	1.66	0.41
1:A:206:ALA:C	1:A:208:LYS:N	2.74	0.41
1:C:303:ALA:O	1:C:304:ALA:C	2.58	0.41
1:A:589:LYS:HA	1:A:592:ASN:ND2	2.36	0.41
1:C:40:PRO:CB	1:C:76:MET:HE1	2.51	0.41
1:C:115:MET:CB	1:C:116:PRO:HD3	2.48	0.41
1:B:1014:ALA:O	1:B:1018:ALA:HB2	2.20	0.41
1:B:1026:PHE:HB3	1:B:1030:ARG:HE	1.85	0.41
1:A:902:MET:C	1:A:904:VAL:N	2.74	0.41
1:C:187:TRP:HZ3	1:C:774:MET:CE	2.34	0.41
1:C:372:VAL:HG23	1:C:376:LEU:HG	2.02	0.41
1:C:901:VAL:O	1:C:902:MET:C	2.58	0.41
1:C:4:PHE:HD2	1:C:8:ARG:HH12	1.69	0.41
1:A:661:ALA:O	1:A:662:MET:C	2.58	0.41
1:A:426:PRO:HB2	1:A:427:PRO:HD2	2.03	0.41
1:A:324:VAL:CG1	1:A:325:TYR:N	2.81	0.41
1:C:989:LEU:HB3	1:C:1004:GLY:HA3	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:836:SER:OG	1:B:838:GLY:N	2.54	0.41
1:A:370:ILE:CG2	1:A:370:ILE:O	2.68	0.41
1:B:213:GLN:HG3	1:C:56:THR:HG23	2.03	0.41
1:C:1030:ARG:HB3	1:C:1030:ARG:HE	1.21	0.41
1:C:894:SER:HB3	1:C:897:ILE:HD12	2.03	0.41
1:B:470:PHE:CE2	1:B:929:VAL:HG11	2.55	0.41
1:B:1026:PHE:HB3	1:B:1030:ARG:HH21	1.82	0.41
1:B:901:VAL:HG21	1:B:943:ILE:HD13	2.02	0.41
1:A:1022:VAL:N	1:A:1023:PRO:CD	2.83	0.41
1:B:896:SER:O	1:B:899:PHE:HB2	2.20	0.41
1:B:850:LYS:CA	1:B:852:PRO:HD3	2.51	0.41
1:A:453:PHE:O	1:A:454:VAL:C	2.59	0.41
1:C:196:PHE:O	1:C:252:LYS:NZ	2.36	0.41
1:C:552:MET:HE1	1:C:909:VAL:HG21	2.02	0.41
1:B:741:VAL:HG22	1:B:793:ALA:HA	2.03	0.41
1:A:193:LEU:HD12	1:A:265:VAL:HG11	2.02	0.41
1:A:685:ILE:CG2	1:A:687:GLN:H	2.27	0.41
1:C:166:ILE:HG22	1:C:172:VAL:CG1	2.51	0.41
1:C:137:LEU:N	1:C:291:ILE:O	2.53	0.41
1:C:322:LYS:HG2	1:C:323:ILE:N	2.34	0.41
1:C:66:GLU:OE1	1:C:821:GLY:HA2	2.20	0.41
1:B:935:ILE:O	1:B:935:ILE:HG22	2.20	0.41
1:B:945:ILE:HG13	1:B:946:VAL:H	1.86	0.41
1:A:539:GLY:CA	1:A:542:LEU:HB2	2.45	0.41
1:B:340:VAL:O	1:B:341:VAL:C	2.59	0.41
1:C:844:MET:O	1:C:847:LEU:CD2	2.69	0.41
1:C:418:ARG:HD2	1:C:970:MET:CE	2.51	0.41
1:C:1014:ALA:O	1:C:1018:ALA:HB3	2.21	0.41
1:C:344:LEU:O	1:C:345:VAL:C	2.59	0.41
1:C:392:THR:O	1:C:393:LEU:C	2.59	0.41
1:C:9:PRO:C	1:C:11:PHE:H	2.24	0.41
1:B:702:LEU:C	1:B:703:LEU:O	2.58	0.41
1:A:655:PHE:O	1:A:658:ILE:HG12	2.20	0.41
1:A:493:CYS:C	1:A:494:ALA:O	2.59	0.41
1:A:991:ILE:HG13	1:A:1004:GLY:HA3	2.03	0.41
1:B:578:LEU:H	1:B:578:LEU:CD2	2.33	0.41
1:A:223:PRO:HA	1:A:224:PRO:HD3	1.92	0.41
1:A:472:ILE:HA	1:A:475:VAL:HG12	2.01	0.41
1:A:736:ALA:O	1:A:741:VAL:HG12	2.20	0.41
1:C:764:ASP:O	1:C:765:ARG:C	2.59	0.41
1:B:33:ALA:O	1:B:337:ILE:HD11	2.20	0.41
1:A:49:TYR:O	1:A:50:PRO:C	2.59	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:826:GLU:O	2:C:1063:HOH:O	2.22	0.41
1:B:64:VAL:O	1:B:66:GLU:N	2.54	0.41
1:B:66:GLU:OE2	1:B:818:ARG:HD3	2.21	0.41
1:B:216:ALA:CB	1:B:236:ALA:HB2	2.50	0.41
1:B:743:ILE:H	1:B:743:ILE:CD1	2.32	0.41
1:A:137:LEU:O	1:A:329:THR:HG22	2.21	0.41
1:A:24:GLY:O	1:A:27:ILE:HB	2.20	0.41
1:C:218:GLN:HG3	1:C:233:SER:HA	2.03	0.41
1:B:121:GLU:HG2	1:B:121:GLU:H	1.41	0.41
1:A:975:ILE:O	1:A:976:LEU:C	2.59	0.41
1:A:360:GLN:HB3	1:A:360:GLN:HE21	1.58	0.41
1:A:542:LEU:HD23	1:A:1028:VAL:HG21	2.02	0.41
1:A:541:TYR:C	1:A:543:VAL:O	2.59	0.41
1:A:729:ILE:CG2	1:A:730:ASP:N	2.62	0.41
1:A:428:LYS:CG	1:A:429:GLU:N	2.83	0.41
1:A:183:ALA:O	1:A:185:ARG:N	2.54	0.41
1:C:188:MET:CE	1:C:200:PRO:HA	2.51	0.41
1:B:139:VAL:O	1:B:326:PRO:HG2	2.21	0.41
1:A:456:MET:HG2	1:A:459:PHE:HE1	1.86	0.41
1:B:775:SER:OG	1:B:776:GLU:N	2.54	0.41
1:B:38:ILE:HD12	1:B:466:ILE:CD1	2.52	0.41
1:C:593:GLU:O	1:C:597:TYR:N	2.32	0.41
1:C:790:TYR:C	1:C:791:VAL:HG23	2.40	0.41
1:C:75:LEU:HD22	1:C:77:TYR:O	2.21	0.41
1:C:202:ASP:O	1:C:205:THR:N	2.54	0.41
1:C:317:PHE:CB	1:C:318:PRO:CD	2.92	0.40
1:C:889:ALA:O	1:C:890:ALA:C	2.59	0.40
1:C:949:ALA:O	1:C:951:ASP:N	2.55	0.40
1:A:897:ILE:HG21	1:A:950:LYS:NZ	2.36	0.40
1:C:900:SER:HA	1:C:1029:VAL:HG21	2.03	0.40
1:C:919:ARG:HD2	1:C:919:ARG:HA	1.92	0.40
1:A:143:ILE:HG12	1:A:144:ASN:N	2.37	0.40
1:C:663:VAL:CG1	1:C:664:PHE:N	2.84	0.40
1:B:592:ASN:O	1:B:595:THR:HG23	2.21	0.40
1:A:333:VAL:O	1:A:337:ILE:HD13	2.21	0.40
1:A:696:THR:O	1:A:697:GLN:C	2.58	0.40
1:A:44:THR:O	1:A:45:ILE:HG12	2.17	0.40
1:A:815:ARG:NH2	2:A:1071:HOH:O	2.54	0.40
1:A:198:LEU:HD11	1:A:252:LYS:HB2	2.03	0.40
1:C:178:PHE:CD1	1:C:610:PHE:HE2	2.38	0.40
1:A:380:PHE:CZ	1:A:398:MET:HE1	2.56	0.40
1:C:315:PRO:HB2	1:C:316:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:885:PHE:O	1:C:888:LEU:N	2.53	0.40
1:B:974:PRO:O	1:B:978:THR:HG22	2.21	0.40
1:A:545:TYR:HA	1:A:548:ILE:HG12	2.03	0.40
1:A:952:LEU:HD11	1:A:963:ALA:HB1	2.03	0.40
1:C:337:ILE:N	1:C:337:ILE:HD13	2.36	0.40
1:A:753:ALA:O	1:A:774:MET:HG3	2.21	0.40
1:B:418:ARG:HH21	1:B:970:MET:HG3	1.85	0.40
1:C:760:ASN:O	1:C:771:VAL:HG23	2.21	0.40
1:C:568:ASP:O	1:C:568:ASP:OD1	2.39	0.40
1:C:410:ILE:O	1:C:411:VAL:C	2.59	0.40
1:A:461:GLY:O	1:A:462:SER:C	2.58	0.40
1:B:756:GLY:HA2	1:B:773:VAL:O	2.20	0.40
1:C:30:LEU:HA	1:C:31:PRO:HD3	1.95	0.40
1:A:193:LEU:CB	1:A:265:VAL:HG13	2.50	0.40
1:B:58:GLN:C	1:B:60:THR:H	2.25	0.40
1:A:240:LEU:N	1:A:240:LEU:HD12	2.37	0.40
1:A:4:PHE:HA	1:A:4:PHE:HD2	1.80	0.40
1:C:817:GLU:O	1:C:818:ARG:HG2	2.21	0.40
1:A:405:LEU:O	1:A:406:VAL:C	2.57	0.40
1:C:754:TRP:CE3	1:C:780:ARG:HB2	2.56	0.40
1:C:551:GLY:O	1:C:554:TYR:HB2	2.21	0.40
1:C:400:LEU:O	1:C:933:THR:HG21	2.21	0.40
1:A:971:ARG:O	1:A:974:PRO:HD2	2.20	0.40
1:A:790:TYR:CE1	1:A:800:PRO:HB3	2.56	0.40
1:C:203:VAL:O	1:C:204:ILE:C	2.58	0.40
1:A:693:GLU:O	1:A:694:LYS:C	2.59	0.40
1:A:462:SER:HB2	1:A:674:LEU:CD2	2.52	0.40
1:B:460:GLY:HA2	1:B:872:GLN:OE1	2.21	0.40
1:B:670:ALA:H	1:B:862:MET:HE1	1.85	0.40
1:B:223:PRO:HA	1:B:224:PRO:HD3	1.98	0.40
1:B:317:PHE:CE2	1:B:323:ILE:HD11	2.56	0.40
1:C:713:LEU:HD11	1:C:835:LYS:N	2.36	0.40
1:B:921:LEU:HD22	1:B:1005:THR:HG22	2.02	0.40
1:A:713:LEU:HG	1:A:833:PRO:CD	2.25	0.40
1:C:844:MET:O	1:C:848:ALA:N	2.53	0.40
1:C:475:VAL:HG12	1:C:476:SER:N	2.35	0.40
1:C:4:PHE:CD2	1:C:8:ARG:NH1	2.89	0.40
1:B:641:GLU:CA	1:B:650:ARG:HH12	2.33	0.40
1:A:959:GLY:HA3	1:A:962:GLU:CB	2.30	0.40
1:A:489:THR:HB	1:A:490:PRO:HD3	2.03	0.40
1:A:418:ARG:CG	1:A:970:MET:CE	2.96	0.40
1:C:360:GLN:OE1	1:C:516:PHE:HE2	2.04	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:520:PHE:C	1:A:522:LYS:H	2.25	0.40
1:A:243:THR:CG2	1:A:268:ILE:HG22	2.49	0.40
1:B:598:TYR:HD1	1:B:606:VAL:HG21	1.85	0.40
1:C:957:GLY:C	1:C:958:LYS:HD2	2.42	0.40
1:A:1036:LYS:HD2	1:A:1036:LYS:C	2.42	0.40
1:A:114:ALA:O	1:A:117:LEU:CD2	2.70	0.40
1:A:65:ILE:HD13	1:A:111:LEU:HD23	2.02	0.40
1:C:950:LYS:N	1:C:953:MET:HE2	2.18	0.40
1:B:945:ILE:CD1	1:B:1022:VAL:CG2	3.00	0.40
1:B:490:PRO:C	1:B:492:LEU:N	2.75	0.40
1:B:552:MET:HA	1:B:910:ILE:HD12	2.04	0.40
1:A:541:TYR:CD2	1:A:541:TYR:N	2.89	0.40
1:B:345:VAL:O	1:B:348:ILE:HB	2.21	0.40
1:C:746:ILE:O	1:C:747:ASN:C	2.59	0.40
1:C:5:PHE:HA	1:C:8:ARG:O	2.22	0.40
1:B:776:GLU:CG	1:B:777:ALA:H	2.35	0.40
1:A:607:GLU:OE2	1:A:607:GLU:O	2.40	0.40
1:A:151:GLN:NE2	1:A:279:ALA:H	2.19	0.40
1:C:714:THR:HG22	1:C:716:VAL:H	1.85	0.40
1:B:194:ASN:ND2	1:B:194:ASN:O	2.55	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone ⓘ

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%)	621 (61%)	243 (24%)	154 (15%)	0	1
1	B	1018/1053 (97%)	611 (60%)	259 (25%)	148 (14%)	0	1
1	C	1018/1053 (97%)	642 (63%)	225 (22%)	151 (15%)	0	1
All	All	3054/3159 (97%)	1874 (61%)	727 (24%)	453 (15%)	0	1

All (453) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	53	ASP
1	A	63	GLN
1	A	64	VAL
1	A	65	ILE
1	A	67	GLN
1	A	69	MET
1	A	73	ASP
1	A	74	ASN
1	A	76	MET
1	A	96	SER
1	A	105	VAL
1	A	112	GLN
1	A	137	LEU
1	A	146	ASP
1	A	167	SER
1	A	172	VAL
1	A	181	GLN
1	A	255	GLN
1	A	277	ILE
1	A	293	LEU
1	A	294	ALA
1	A	318	PRO
1	A	330	THR
1	A	376	LEU
1	A	422	GLU
1	A	439	GLN
1	A	443	VAL
1	A	444	GLY
1	A	521	GLU
1	A	538	THR
1	A	597	TYR
1	A	601	LYS
1	A	638	PRO
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	690	LEU
1	A	713	LEU
1	A	715	SER
1	A	730	ASP

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Mol	Chain	Res	Type
1	A	759	VAL
1	A	775	SER
1	A	820	ASN
1	A	868	LEU
1	A	925	VAL
1	A	988	PRO
1	A	991	ILE
1	A	1016	VAL
1	A	1024	VAL
1	B	8	ARG
1	B	50	PRO
1	B	51	GLY
1	B	54	ALA
1	B	56	THR
1	B	72	ILE
1	B	85	THR
1	B	98	THR
1	B	104	GLN
1	B	147	GLY
1	B	173	GLY
1	B	175	VAL
1	B	228	GLN
1	B	258	SER
1	B	268	ILE
1	B	270	LEU
1	B	326	PRO
1	B	361	ASN
1	B	363	ARG
1	B	517	ASN
1	B	519	MET
1	B	535	LEU
1	B	536	ARG
1	B	538	THR
1	B	549	VAL
1	B	602	GLU
1	B	606	VAL
1	B	647	ILE
1	B	654	ALA
1	B	655	PHE
1	B	671	ILE
1	B	688	ALA
1	B	689	GLY

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Mol	Chain	Res	Type
1	B	693	GLU
1	B	703	LEU
1	B	705	GLU
1	B	712	MET
1	B	733	GLN
1	B	820	ASN
1	B	831	ALA
1	B	871	ASN
1	B	891	LEU
1	B	907	LEU
1	B	908	GLY
1	B	921	LEU
1	B	1012	VAL
1	B	1019	ILE
1	B	1034	SER
1	C	52	ALA
1	C	61	VAL
1	C	68	ASN
1	C	95	GLU
1	C	110	LYS
1	C	111	LEU
1	C	157	TYR
1	C	160	ALA
1	C	167	SER
1	C	187	TRP
1	C	226	LYS
1	C	311	ALA
1	C	312	LYS
1	C	314	GLU
1	C	319	SER
1	C	394	THR
1	C	410	ILE
1	C	411	VAL
1	C	419	VAL
1	C	464	GLY
1	C	540	ARG
1	C	601	LYS
1	C	658	ILE
1	C	720	GLY
1	C	778	LYS
1	C	851	LEU
1	C	869	SER

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Mol	Chain	Res	Type
1	C	871	ASN
1	C	895	TRP
1	C	925	VAL
1	C	946	VAL
1	C	960	LEU
1	C	965	LEU
1	C	975	ILE
1	C	989	LEU
1	C	993	THR
1	C	1035	ARG
1	A	12	ALA
1	A	54	ALA
1	A	66	GLU
1	A	90	ILE
1	A	135	SER
1	A	147	GLY
1	A	170	SER
1	A	218	GLN
1	A	221	GLY
1	A	256	ASP
1	A	265	VAL
1	A	400	LEU
1	A	435	MET
1	A	446	ALA
1	A	453	PHE
1	A	455	PRO
1	A	459	PHE
1	A	496	MET
1	A	548	ILE
1	A	553	ALA
1	A	580	ALA
1	A	582	ALA
1	A	600	THR
1	A	622	GLN
1	A	654	ALA
1	A	679	GLY
1	A	688	ALA
1	A	689	GLY
1	A	784	ASP
1	A	866	GLU
1	A	869	SER
1	A	903	LEU

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Mol	Chain	Res	Type
1	A	926	TYR
1	A	951	ASP
1	A	958	LYS
1	A	964	THR
1	A	971	ARG
1	A	1010	GLY
1	A	1012	VAL
1	A	1025	PHE
1	B	22	ALA
1	B	103	ALA
1	B	125	GLN
1	B	221	GLY
1	B	254	ASN
1	B	265	VAL
1	B	291	ILE
1	B	424	GLY
1	B	453	PHE
1	B	471	SER
1	B	539	GLY
1	B	557	VAL
1	B	567	GLU
1	B	603	LYS
1	B	638	PRO
1	B	659	LYS
1	B	669	PRO
1	B	715	SER
1	B	723	ASP
1	B	794	ALA
1	B	805	SER
1	B	834	GLY
1	B	852	PRO
1	B	899	PHE
1	B	901	VAL
1	B	918	PHE
1	B	966	ASP
1	B	975	ILE
1	B	1013	THR
1	C	10	ILE
1	C	34	GLN
1	C	51	GLY
1	C	74	ASN
1	C	164	ASP

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Mol	Chain	Res	Type
1	C	182	TYR
1	C	217	GLY
1	C	220	GLY
1	C	243	THR
1	C	258	SER
1	C	263	ARG
1	C	396	PHE
1	C	404	LEU
1	C	418	ARG
1	C	451	ALA
1	C	460	GLY
1	C	468	ARG
1	C	536	ARG
1	C	576	VAL
1	C	656	SER
1	C	678	THR
1	C	690	LEU
1	C	696	THR
1	C	706	ALA
1	C	715	SER
1	C	803	ALA
1	C	872	GLN
1	C	935	ILE
1	C	998	GLY
1	C	1017	LEU
1	C	1029	VAL
1	A	192	GLU
1	A	206	ALA
1	A	301	ASP
1	A	317	PHE
1	A	319	SER
1	A	320	GLY
1	A	353	LEU
1	A	357	LEU
1	A	372	VAL
1	A	428	LYS
1	A	447	MET
1	A	458	PHE
1	A	515	TRP
1	A	535	LEU
1	A	656	SER
1	A	694	LYS

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Mol	Chain	Res	Type
1	A	753	ALA
1	A	831	ALA
1	A	881	LEU
1	B	2	PRO
1	B	48	SER
1	B	171	GLY
1	B	319	SER
1	B	336	SER
1	B	357	LEU
1	B	405	LEU
1	B	408	ASP
1	B	422	GLU
1	B	491	ALA
1	B	495	THR
1	B	601	LYS
1	B	640	GLU
1	B	675	GLY
1	B	788	ASP
1	B	804	PHE
1	B	1011	MET
1	C	190	PRO
1	C	191	ASN
1	C	193	LEU
1	C	327	TYR
1	C	336	SER
1	C	386	PHE
1	C	422	GLU
1	C	427	PRO
1	C	463	THR
1	C	491	ALA
1	C	497	LEU
1	C	530	SER
1	C	593	GLU
1	C	600	THR
1	C	639	GLY
1	C	671	ILE
1	C	675	GLY
1	C	747	ASN
1	C	760	ASN
1	C	801	PHE
1	C	950	LYS
1	C	952	LEU

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Mol	Chain	Res	Type
1	C	983	ILE
1	C	994	GLY
1	C	1010	GLY
1	A	68	ASN
1	A	116	PRO
1	A	184	MET
1	A	217	GLY
1	A	362	PHE
1	A	384	ALA
1	A	434	SER
1	A	436	GLY
1	A	577	GLN
1	A	712	MET
1	A	810	GLU
1	A	907	LEU
1	A	923	ASN
1	A	960	LEU
1	A	1004	GLY
1	A	1005	THR
1	B	12	ALA
1	B	36	PRO
1	B	59	ASP
1	B	131	LYS
1	B	327	TYR
1	B	407	ASP
1	B	414	GLU
1	B	427	PRO
1	B	461	GLY
1	B	485	ALA
1	B	656	SER
1	B	694	LYS
1	B	870	GLY
1	B	941	ASN
1	B	950	LYS
1	B	959	GLY
1	B	960	LEU
1	B	1014	ALA
1	B	1026	PHE
1	C	54	ALA
1	C	81	ASN
1	C	124	GLN
1	C	159	ALA

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Mol	Chain	Res	Type
1	C	343	THR
1	C	490	PRO
1	C	520	PHE
1	C	620	ARG
1	C	664	PHE
1	C	674	LEU
1	C	777	ALA
1	C	967	ALA
1	C	974	PRO
1	C	976	LEU
1	C	988	PRO
1	A	19	ILE
1	A	174	ASP
1	A	216	ALA
1	A	224	PRO
1	A	392	THR
1	A	417	GLU
1	A	549	VAL
1	A	692	HIS
1	A	714	THR
1	A	818	ARG
1	A	1002	ALA
1	B	10	ILE
1	B	409	ALA
1	B	542	LEU
1	B	618	ALA
1	B	716	VAL
1	B	777	ALA
1	B	849	SER
1	B	851	LEU
1	B	909	VAL
1	B	954	ASP
1	B	1006	GLY
1	B	1017	LEU
1	C	192	GLU
1	C	237	GLN
1	C	332	PHE
1	C	392	THR
1	C	425	LEU
1	C	438	ILE
1	C	458	PHE
1	C	519	MET

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Mol	Chain	Res	Type
1	C	528	THR
1	C	546	LEU
1	C	640	GLU
1	C	716	VAL
1	C	837	THR
1	C	850	LYS
1	C	852	PRO
1	C	963	ALA
1	A	18	ILE
1	A	109	ASN
1	A	191	ASN
1	A	397	GLY
1	A	471	SER
1	A	794	ALA
1	A	892	TYR
1	B	23	GLY
1	B	65	ILE
1	B	105	VAL
1	B	127	VAL
1	B	474	ILE
1	B	477	ALA
1	B	674	LEU
1	B	786	ILE
1	B	942	ALA
1	B	1016	VAL
1	C	80	SER
1	C	106	GLN
1	C	207	ILE
1	C	315	PRO
1	C	333	VAL
1	C	399	VAL
1	C	447	MET
1	C	537	SER
1	C	796	GLY
1	C	926	TYR
1	C	1007	VAL
1	A	709	HIS
1	B	315	PRO
1	B	444	GLY
1	B	484	VAL
1	B	710	PRO
1	B	821	GLY

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Mol	Chain	Res	Type
1	C	19	ILE
1	C	32	VAL
1	C	223	PRO
1	C	426	PRO
1	C	550	VAL
1	A	51	GLY
1	A	539	GLY
1	B	19	ILE
1	B	31	PRO
1	B	190	PRO
1	B	771	VAL
1	C	709	HIS
1	A	729	ILE
1	A	874	PRO
1	B	224	PRO
1	B	974	PRO
1	C	9	PRO
1	C	50	PRO
1	C	291	ILE
1	C	533	GLY
1	A	15	ILE
1	A	716	VAL
1	A	905	VAL
1	B	464	GLY
1	C	15	ILE
1	C	424	GLY
1	C	448	VAL
1	C	571	VAL
1	C	786	ILE
1	C	800	PRO
1	A	326	PRO
1	B	783	PRO

### 5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	833/859 (97%)	678 (81%)	155 (19%)	<b>2</b> <b>7</b>

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	833/859 (97%)	688 (83%)	145 (17%)	3	8
1	C	833/859 (97%)	679 (82%)	154 (18%)	2	7
All	All	2499/2577 (97%)	2045 (82%)	454 (18%)	2	7

All (454) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	PHE
1	A	5	PHE
1	A	6	ILE
1	A	14	VAL
1	A	21	LEU
1	A	25	LEU
1	A	38	ILE
1	A	46	SER
1	A	49	TYR
1	A	55	LYS
1	A	58	GLN
1	A	62	THR
1	A	63	GLN
1	A	65	ILE
1	A	66	GLU
1	A	69	MET
1	A	74	ASN
1	A	79	SER
1	A	80	SER
1	A	83	ASP
1	A	84	SER
1	A	88	VAL
1	A	91	THR
1	A	93	THR
1	A	98	THR
1	A	102	ILE
1	A	105	VAL
1	A	109	ASN
1	A	112	GLN
1	A	115	MET
1	A	120	GLN
1	A	130	GLU
1	A	137	LEU
1	A	139	VAL

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Mol	Chain	Res	Type
1	A	143	ILE
1	A	150	THR
1	A	164	ASP
1	A	166	ILE
1	A	170	SER
1	A	193	LEU
1	A	202	ASP
1	A	213	GLN
1	A	222	THR
1	A	226	LYS
1	A	230	LEU
1	A	243	THR
1	A	277	ILE
1	A	284	GLN
1	A	298	ASN
1	A	302	THR
1	A	319	SER
1	A	323	ILE
1	A	325	TYR
1	A	330	THR
1	A	335	ILE
1	A	337	ILE
1	A	349	ILE
1	A	356	TYR
1	A	357	LEU
1	A	359	LEU
1	A	361	ASN
1	A	367	ILE
1	A	376	LEU
1	A	379	THR
1	A	394	THR
1	A	405	LEU
1	A	414	GLU
1	A	417	GLU
1	A	433	LYS
1	A	438	ILE
1	A	447	MET
1	A	453	PHE
1	A	480	LEU
1	A	481	SER
1	A	498	LYS
1	A	513	PHE

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Mol	Chain	Res	Type
1	A	515	TRP
1	A	518	ARG
1	A	522	LYS
1	A	523	SER
1	A	536	ARG
1	A	544	LEU
1	A	546	LEU
1	A	556	PHE
1	A	557	VAL
1	A	558	ARG
1	A	561	SER
1	A	572	PHE
1	A	576	VAL
1	A	577	GLN
1	A	578	LEU
1	A	586	ARG
1	A	607	GLU
1	A	610	PHE
1	A	612	VAL
1	A	617	PHE
1	A	620	ARG
1	A	623	ASN
1	A	626	ILE
1	A	630	SER
1	A	641	GLU
1	A	648	THR
1	A	653	ARG
1	A	659	LYS
1	A	668	LEU
1	A	671	ILE
1	A	687	GLN
1	A	690	LEU
1	A	702	LEU
1	A	705	GLU
1	A	711	ASP
1	A	713	LEU
1	A	717	ARG
1	A	719	ASN
1	A	721	LEU
1	A	722	GLU
1	A	729	ILE
1	A	750	LEU

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Mol	Chain	Res	Type
1	A	758	TYR
1	A	763	ILE
1	A	768	VAL
1	A	774	MET
1	A	775	SER
1	A	778	LYS
1	A	779	TYR
1	A	780	ARG
1	A	782	LEU
1	A	786	ILE
1	A	801	PHE
1	A	805	SER
1	A	807	SER
1	A	815	ARG
1	A	818	ARG
1	A	822	LEU
1	A	824	SER
1	A	828	LEU
1	A	843	LEU
1	A	855	VAL
1	A	867	ARG
1	A	887	CYS
1	A	899	PHE
1	A	917	THR
1	A	954	ASP
1	A	955	LYS
1	A	960	LEU
1	A	976	LEU
1	A	982	PHE
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	1030	ARG
1	A	1036	LYS
1	B	6	ILE
1	B	8	ARG
1	B	11	PHE
1	B	13	TRP
1	B	21	LEU

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Mol	Chain	Res	Type
1	B	27	ILE
1	B	34	GLN
1	B	48	SER
1	B	50	PRO
1	B	53	ASP
1	B	57	VAL
1	B	59	ASP
1	B	61	VAL
1	B	67	GLN
1	B	70	ASN
1	B	72	ILE
1	B	74	ASN
1	B	79	SER
1	B	81	ASN
1	B	91	THR
1	B	92	LEU
1	B	93	THR
1	B	96	SER
1	B	102	ILE
1	B	104	GLN
1	B	121	GLU
1	B	131	LYS
1	B	144	ASN
1	B	145	THR
1	B	150	THR
1	B	153	ASP
1	B	170	SER
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	189	ASN
1	B	191	ASN
1	B	193	LEU
1	B	194	ASN
1	B	210	GLN
1	B	223	PRO
1	B	226	LYS
1	B	228	GLN
1	B	231	ASN

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Mol	Chain	Res	Type
1	B	235	ILE
1	B	237	GLN
1	B	243	THR
1	B	253	VAL
1	B	254	ASN
1	B	256	ASP
1	B	261	LEU
1	B	270	LEU
1	B	289	LEU
1	B	293	LEU
1	B	298	ASN
1	B	319	SER
1	B	335	ILE
1	B	336	SER
1	B	342	LYS
1	B	343	THR
1	B	349	ILE
1	B	356	TYR
1	B	365	THR
1	B	372	VAL
1	B	373	PRO
1	B	379	THR
1	B	394	THR
1	B	405	LEU
1	B	410	ILE
1	B	428	LYS
1	B	435	MET
1	B	437	GLN
1	B	452	VAL
1	B	456	MET
1	B	473	THR
1	B	482	VAL
1	B	483	LEU
1	B	488	LEU
1	B	496	MET
1	B	497	LEU
1	B	513	PHE
1	B	516	PHE
1	B	538	THR
1	B	540	ARG
1	B	549	VAL
1	B	554	TYR

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Mol	Chain	Res	Type
1	B	562	SER
1	B	574	THR
1	B	591	LEU
1	B	595	THR
1	B	601	LYS
1	B	607	GLU
1	B	612	VAL
1	B	623	ASN
1	B	629	VAL
1	B	641	GLU
1	B	653	ARG
1	B	655	PHE
1	B	659	LYS
1	B	668	LEU
1	B	673	GLU
1	B	680	PHE
1	B	681	ASP
1	B	696	THR
1	B	712	MET
1	B	743	ILE
1	B	757	SER
1	B	758	TYR
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	799	VAL
1	B	808	ARG
1	B	830	GLN
1	B	836	SER
1	B	847	LEU
1	B	864	TYR
1	B	868	LEU
1	B	871	ASN
1	B	876	LEU
1	B	879	ILE
1	B	895	TRP
1	B	900	SER
1	B	933	THR

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Mol	Chain	Res	Type
1	B	943	ILE
1	B	946	VAL
1	B	951	ASP
1	B	956	GLU
1	B	960	LEU
1	B	965	LEU
1	B	966	ASP
1	B	970	MET
1	B	978	THR
1	B	984	LEU
1	B	987	MET
1	B	993	THR
1	B	1027	VAL
1	B	1036	LYS
1	C	4	PHE
1	C	13	TRP
1	C	17	ILE
1	C	19	ILE
1	C	37	THR
1	C	45	ILE
1	C	48	SER
1	C	49	TYR
1	C	58	GLN
1	C	60	THR
1	C	63	GLN
1	C	65	ILE
1	C	70	ASN
1	C	74	ASN
1	C	75	LEU
1	C	82	SER
1	C	83	ASP
1	C	89	GLN
1	C	91	THR
1	C	102	ILE
1	C	104	GLN
1	C	107	VAL
1	C	108	GLN
1	C	110	LYS
1	C	111	LEU
1	C	117	LEU
1	C	118	LEU
1	C	134	SER

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Mol	Chain	Res	Type
1	C	137	LEU
1	C	143	ILE
1	C	148	THR
1	C	149	MET
1	C	151	GLN
1	C	152	GLU
1	C	153	ASP
1	C	168	ARG
1	C	169	THR
1	C	170	SER
1	C	177	LEU
1	C	184	MET
1	C	185	ARG
1	C	189	ASN
1	C	194	ASN
1	C	207	ILE
1	C	210	GLN
1	C	211	ASN
1	C	228	GLN
1	C	231	ASN
1	C	233	SER
1	C	239	ARG
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	274	ASN
1	C	295	THR
1	C	301	ASP
1	C	313	MET
1	C	316	PHE
1	C	317	PHE
1	C	337	ILE
1	C	339	GLU
1	C	341	VAL
1	C	355	MET
1	C	367	ILE
1	C	372	VAL
1	C	377	LEU
1	C	400	LEU

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Mol	Chain	Res	Type
1	C	417	GLU
1	C	419	VAL
1	C	420	MET
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	475	VAL
1	C	492	LEU
1	C	493	CYS
1	C	497	LEU
1	C	521	GLU
1	C	535	LEU
1	C	536	ARG
1	C	538	THR
1	C	544	LEU
1	C	546	LEU
1	C	568	ASP
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	617	PHE
1	C	622	GLN
1	C	624	THR
1	C	626	ILE
1	C	650	ARG
1	C	662	MET
1	C	666	PHE
1	C	668	LEU
1	C	674	LEU
1	C	685	ILE
1	C	696	THR
1	C	699	ARG
1	C	713	LEU
1	C	719	ASN
1	C	721	LEU

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Mol	Chain	Res	Type
1	C	722	GLU
1	C	724	THR
1	C	733	GLN
1	C	743	ILE
1	C	745	ASP
1	C	750	LEU
1	C	759	VAL
1	C	762	PHE
1	C	764	ASP
1	C	765	ARG
1	C	768	VAL
1	C	770	LYS
1	C	778	LYS
1	C	782	LEU
1	C	799	VAL
1	C	808	ARG
1	C	813	SER
1	C	847	LEU
1	C	850	LYS
1	C	867	ARG
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	907	LEU
1	C	922	THR
1	C	935	ILE
1	C	941	ASN
1	C	945	ILE
1	C	952	LEU
1	C	954	ASP
1	C	958	LYS
1	C	960	LEU
1	C	982	PHE
1	C	984	LEU
1	C	993	THR
1	C	1021	PHE
1	C	1030	ARG
1	C	1035	ARG
1	C	1036	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (89) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	3	ASN
1	A	63	GLN
1	A	68	ASN
1	A	70	ASN
1	A	89	GLN
1	A	106	GLN
1	A	108	GLN
1	A	109	ASN
1	A	123	GLN
1	A	124	GLN
1	A	181	GLN
1	A	191	ASN
1	A	210	GLN
1	A	231	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	577	GLN
1	A	622	GLN
1	A	623	ASN
1	A	687	GLN
1	A	719	ASN
1	A	830	GLN
1	A	846	GLN
1	A	865	GLN
1	A	871	ASN
1	B	34	GLN
1	B	58	GLN
1	B	68	ASN
1	B	70	ASN
1	B	108	GLN
1	B	109	ASN
1	B	112	GLN
1	B	120	GLN
1	B	125	GLN
1	B	151	GLN
1	B	161	ASN
1	B	189	ASN

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Mol	Chain	Res	Type
1	B	210	GLN
1	B	213	GLN
1	B	218	GLN
1	B	228	GLN
1	B	231	ASN
1	B	237	GLN
1	B	254	ASN
1	B	415	ASN
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	726	GLN
1	B	744	ASN
1	B	760	ASN
1	B	830	GLN
1	B	846	GLN
1	B	865	GLN
1	B	871	ASN
1	C	3	ASN
1	C	63	GLN
1	C	104	GLN
1	C	106	GLN
1	C	120	GLN
1	C	123	GLN
1	C	125	GLN
1	C	144	ASN
1	C	176	GLN
1	C	189	ASN
1	C	197	GLN
1	C	211	ASN
1	C	231	ASN
1	C	237	GLN
1	C	284	GLN
1	C	391	ASN
1	C	439	GLN

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Mol	Chain	Res	Type
1	C	577	GLN
1	C	588	GLN
1	C	592	ASN
1	C	605	ASN
1	C	667	ASN
1	C	747	ASN

### 5.3.3 RNA ⓘ

There are no RNA chains in this entry.

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

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

### 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

### 5.6 Ligand geometry ⓘ

There are no ligands in this entry.

### 5.7 Other polymers ⓘ

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

### 6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	1022/1053 (97%)	0.05	54 (5%) 25 26	5, 97, 116, 127	0
1	B	1022/1053 (97%)	0.15	61 (5%) 21 21	49, 102, 116, 127	0
1	C	1022/1053 (97%)	0.05	61 (5%) 21 21	5, 94, 118, 127	0
All	All	3066/3159 (97%)	0.08	176 (5%) 23 23	5, 99, 117, 127	0

All (176) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1034	SER	14.1
1	C	870	GLY	9.9
1	C	538	THR	8.2
1	C	869	SER	6.5
1	C	513	PHE	6.5
1	B	529	ASP	6.2
1	A	526	HIS	5.7
1	C	656	SER	5.7
1	C	536	ARG	5.5
1	C	525	HIS	5.2
1	B	957	GLY	5.0
1	C	515	TRP	5.0
1	A	253	VAL	4.7
1	C	1034	SER	4.6
1	C	920	GLY	4.5
1	B	811	TYR	4.5
1	C	649	MET	4.5
1	B	554	TYR	4.3
1	A	318	PRO	4.3
1	A	801	PHE	4.3
1	C	539	GLY	4.1
1	B	526	HIS	4.1
1	C	514	GLY	4.1

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Mol	Chain	Res	Type	RSRZ
1	A	536	ARG	4.0
1	C	596	HIS	3.9
1	C	670	ALA	3.9
1	A	515	TRP	3.9
1	B	711	ASP	3.9
1	B	424	GLY	3.9
1	B	192	GLU	3.9
1	A	871	ASN	3.7
1	C	671	ILE	3.7
1	A	145	THR	3.6
1	C	526	HIS	3.6
1	B	420	MET	3.6
1	C	436	GLY	3.6
1	A	519	MET	3.6
1	A	962	GLU	3.6
1	B	563	PHE	3.6
1	B	1033	PHE	3.6
1	B	515	TRP	3.5
1	B	958	LYS	3.5
1	C	521	GLU	3.5
1	B	1035	ARG	3.5
1	C	554	TYR	3.5
1	C	520	PHE	3.5
1	B	832	ALA	3.5
1	B	652	THR	3.4
1	C	546	LEU	3.4
1	B	304	ALA	3.4
1	B	52	ALA	3.4
1	A	918	PHE	3.3
1	A	254	ASN	3.3
1	A	870	GLY	3.3
1	A	955	LYS	3.3
1	A	537	SER	3.2
1	A	135	SER	3.2
1	C	4	PHE	3.2
1	C	437	GLN	3.2
1	B	320	GLY	3.1
1	B	1036	LYS	3.1
1	B	546	LEU	3.1
1	C	537	SER	3.1
1	C	957	GLY	3.0
1	C	194	ASN	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	521	GLU	3.0
1	C	658	ILE	3.0
1	C	425	LEU	2.9
1	A	257	GLY	2.9
1	C	1035	ARG	2.9
1	B	918	PHE	2.9
1	C	597	TYR	2.9
1	A	538	THR	2.9
1	A	557	VAL	2.9
1	A	597	TYR	2.9
1	A	923	ASN	2.9
1	B	657	GLN	2.8
1	A	954	ASP	2.8
1	B	675	GLY	2.8
1	A	546	LEU	2.8
1	C	424	GLY	2.8
1	A	192	GLU	2.8
1	A	969	ARG	2.7
1	C	833	PRO	2.7
1	A	615	PHE	2.7
1	B	604	ASN	2.7
1	C	34	GLN	2.7
1	A	250	LEU	2.7
1	B	319	SER	2.7
1	C	951	ASP	2.7
1	A	1033	PHE	2.7
1	C	872	GLN	2.7
1	B	520	PHE	2.6
1	A	1035	ARG	2.6
1	C	993	THR	2.6
1	C	544	LEU	2.6
1	B	951	ASP	2.6
1	A	263	ARG	2.6
1	B	253	VAL	2.6
1	A	957	GLY	2.5
1	B	708	LYS	2.5
1	C	414	GLU	2.5
1	C	707	ALA	2.5
1	B	561	SER	2.5
1	A	589	LYS	2.5
1	B	589	LYS	2.5
1	C	643	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	120	GLN	2.4
1	B	521	GLU	2.4
1	B	20	MET	2.4
1	B	145	THR	2.4
1	B	338	HIS	2.4
1	A	518	ARG	2.4
1	C	540	ARG	2.4
1	C	498	LYS	2.4
1	C	522	LYS	2.4
1	A	555	LEU	2.4
1	A	1034	SER	2.4
1	B	651	ALA	2.4
1	B	597	TYR	2.3
1	C	342	LYS	2.3
1	A	423	GLU	2.3
1	B	360	GLN	2.3
1	A	794	ALA	2.3
1	B	54	ALA	2.3
1	B	346	GLU	2.3
1	A	842	GLU	2.3
1	A	553	ALA	2.3
1	B	314	GLU	2.3
1	B	952	LEU	2.3
1	B	981	ALA	2.3
1	B	976	LEU	2.3
1	B	557	VAL	2.3
1	C	711	ASP	2.2
1	C	991	ILE	2.2
1	B	588	GLN	2.2
1	A	708	LYS	2.2
1	C	635	ALA	2.2
1	B	697	GLN	2.2
1	C	784	ASP	2.2
1	A	560	PRO	2.2
1	C	868	LEU	2.2
1	C	918	PHE	2.2
1	B	653	ARG	2.2
1	B	1032	ARG	2.2
1	A	543	VAL	2.2
1	B	3	ASN	2.2
1	A	522	LYS	2.1
1	C	713	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	951	ASP	2.1
1	C	257	GLY	2.1
1	B	518	ARG	2.1
1	B	525	HIS	2.1
1	B	458	PHE	2.1
1	C	662	MET	2.1
1	B	924	ASP	2.1
1	B	846	GLN	2.1
1	A	552	MET	2.1
1	C	497	LEU	2.1
1	C	589	LYS	2.1
1	A	18	ILE	2.1
1	A	547	ILE	2.1
1	B	728	LYS	2.1
1	C	766	GLY	2.1
1	B	309	GLU	2.1
1	A	604	ASN	2.0
1	A	893	GLU	2.0
1	C	346	GLU	2.0
1	B	575	MET	2.0
1	A	517	ASN	2.0
1	B	414	GLU	2.0
1	C	362	PHE	2.0
1	A	167	SER	2.0
1	A	386	PHE	2.0
1	C	551	GLY	2.0
1	C	828	LEU	2.0

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

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

## 6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 6.4 Ligands ⓘ

There are no ligands in this entry.

## 6.5 Other polymers ⓘ

There are no such residues in this entry.