



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 4, 2026 – 09:52 PM UTC

PDB ID : 2DR6 / pdb_00002dr6
Title : Crystal structure of a multidrug transporter reveal a functionally rotating mechanism
Authors : Murakami, S.; Nakashima, R.; Yamashita, E.; Matsumoto, T.
Deposited on : 2006-06-08
Resolution : 3.30 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	NOT EXECUTED
EDS	:	NOT EXECUTED
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

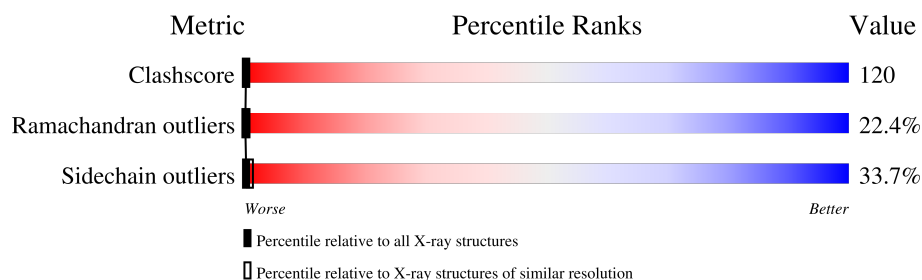
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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))
Clashscore	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$.

Note EDS was not executed.

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

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	DM2	A	2002	X	-	X	-

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 23361 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

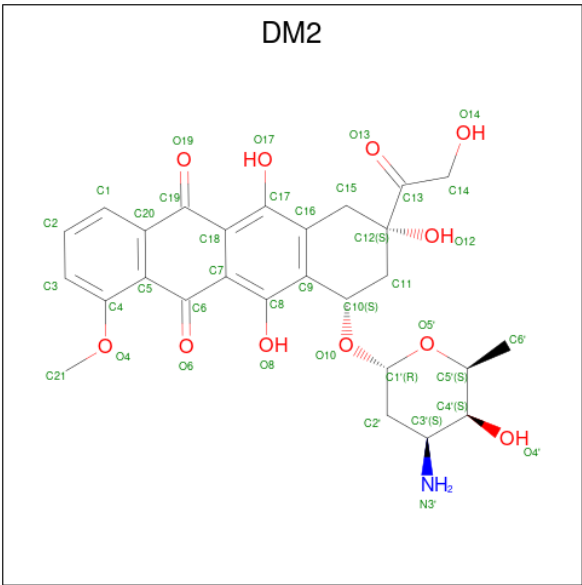
- Molecule 1 is a protein called ACRB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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 DOXORUBICIN (CCD ID: DM2) (formula: C₂₇H₂₉NO₁₁).



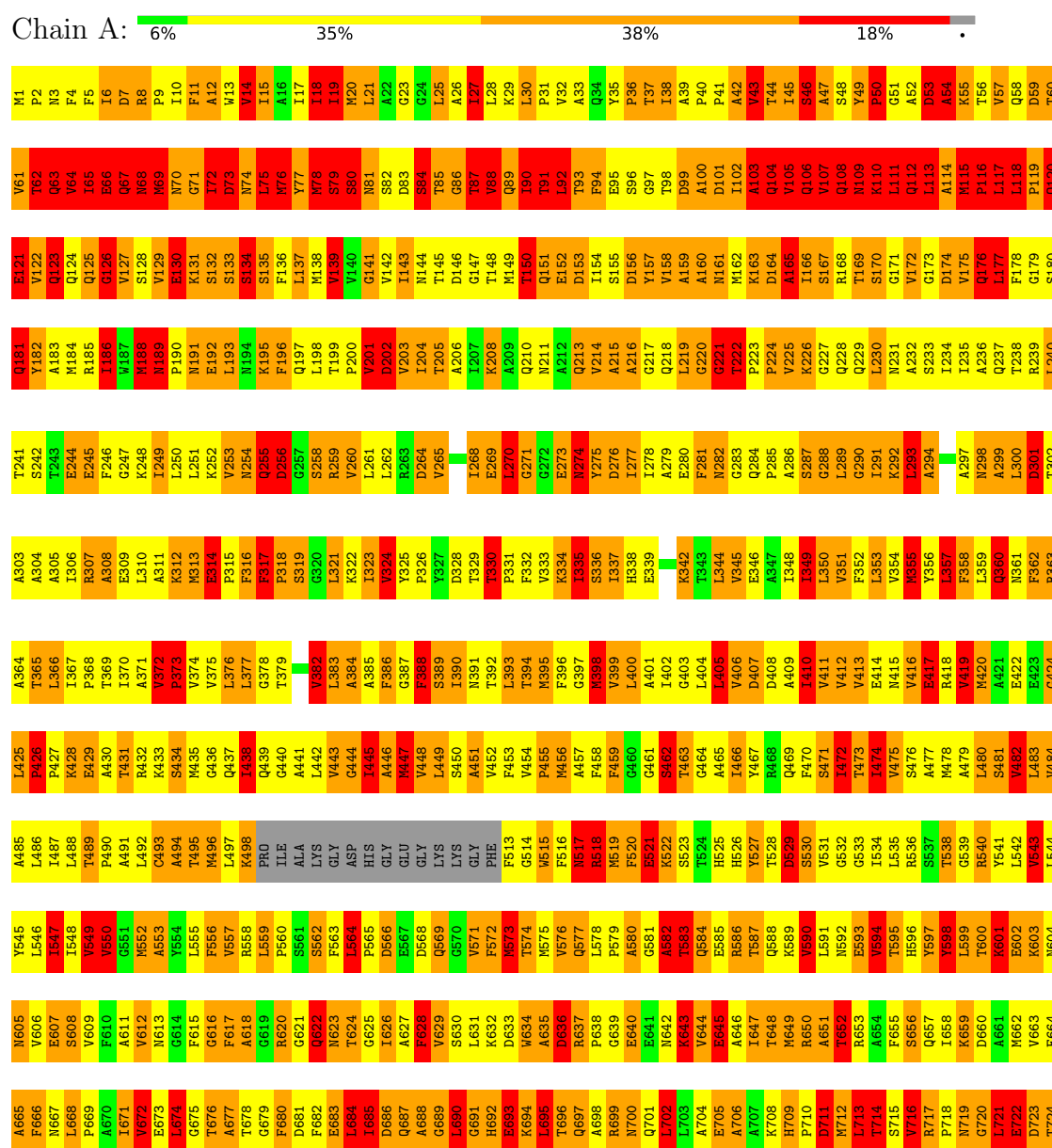
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			39	27	1	11		

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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.

Note EDS was not executed.

• Molecule 1: ACRB



- Molecule 1: ACRB

Chain B:  7% 37% 37% 16% .

I547	I487	P427	I387	I306	E244	M184	Q123	T62	M1
I548	L488	K428	I368	R307	E245	R185	Q124	Q63	P2
I549	T489	E429	T369	A308	F246	I186	Q125	Q64	N3
I550	P490	A430	I370	E309	G247	M187	G126	I65	F4
I551	A491	T431	A371	I310	K248	M188	I127	E66	F5
I552	L492	I432	V372	A311	I249	M189	S128	G67	I6
I553	C493	K433	P373	K312	L250	P190	V129	N68	D7
I554	A494	S434	V374	K313	I251	N191	E130	N69	R8
I555	T495	M435	V375	E314	K252	E192	I131	P70	P9
I556	M496	C436	L376	P315	L253	L193	S132	G71	I10
I557	L497	Q437	L377	F316	N254	N194	S133	I72	F11
I558	K498	I438	G378	F317	G255	K195	S134	D73	A12
I559	P499	Q439	T379	P318	D256	F196	S135	N74	M13
I560	ILE	G440	F380	G320	G257	Q197	F136	L75	V14
I561	ALA	A441	V382	L321	S258	L198	L137	M76	I15
I562	LYS	I442	V383	L322	R259	T199	M138	Y77	A16
I563	GLY	V443	L383	K322	V260	P200	V139	M78	I17
I564	ASP	G444	A384	I323	I261	V201	V140	I18	I18
I565	HIS	I445	A385	V324	I262	D202	G141	N81	I19
I566	GLY	A446	F386	V325	R263	V203	V142	S82	M20
I567	GLU	M447	F387	P326	D264	T204	I143	D83	L21
I568	GLY	V448	F388	V327	V265	T205	N144	S84	
I569	LYS	L449	S389	D328	L266	A206	T145	T85	
I570	LYS	S450	I390	T329	K267	T207	D146	G86	L25
I571	GLY	A451	N391	T330	I268	K208	G147	T87	A26
I572	PHE	V452	T392	P331		A209	T148	V88	I27
I573	F513	F453	L393	F332	G271	Q210	M149	Q89	L28
I574	G514	V454	T394	V333	G272	N211	T150	L90	K29
I575	W515	P455	N395	K334	E273	A212	Q151	T91	L30
I576	F516	M456	F396	I335	N274	Q213	E152	L92	P31
I577	M517	A457	G397	S336	T275	V214	D153	T93	V32
I578	R518	F458	M398	I337	G276	A215	I154	F94	A33
I579	M519	F459	V399	L338	I277	A216	S155	Q94	Q34
I580	F520	C460	L400	E339	L278	G217	D156	S96	V35
I581									
I582	F521	G461	A401	V340	E279	Q218	I157	G97	P36
I583	K522	S462	I402	V341	A280	L219	V158	T98	T37
I584	S523	T463	T403	K342	F281	G220	A159	D99	I38
I585	T524	G464	L404	T343	N282	G221	A160	A100	A39
I586	H525	A465	L405	L344	G283	T222	N161	D101	P40
I587	H526	I466	L406	V345	G284	P223	M162	I102	P41
I588	V527	V467	D407	F346		P224	A103	A42	A42
I589	T528	R468	D408	A347	S287	V225	Q104	Q104	V43
I590	S529	Q469	A409	I348	G288	K226	I166	V106	T44
I591	S530	F470	T410	T349	L289	G227	S167	Q106	T45
I592	F531	S471	V411	L350	G290	Q228	R168	I107	S46
I593	G532	I472	V412	V351	I291	Q229	T169	Q108	A47
I594	G533	T473	V413		K292	L230	S170	N109	S48
I595	F534	T474	E414	V354	L293	N231	G171	K110	Y49
I596	L535	V475	M415	M355	A294	A232	V172	P50	P50
I597	R536	S476	V416	V356	T295	S233	Q112	Q112	G51
I598	S537	A477	E417	L357	G296	T234	D174	L113	A52
I599	T538	M478	R418	F358	A297	T235	V175	A114	D53
I600	G539	A479	V419	L359	N298	A236	Q176	M115	A54
I601	R540	L480	M420	Q360	A299	Q237	L177	P116	K35
I602	F541	S481	A421	R361	L300	T238	F178	L117	T56
I603	L542	V482	E422	F362	D301	R239	G179	L118	V57
I604	V543	L483	E423	R363	T302	L240	S180	Q58	P119
I605	L544	V484	Q424	A364	A303	T241	Q181	Q120	D59
I606	V545	L485	L425	A365	A304	S242	V182	E121	T60
I607	L546	L486	L426	T366	A305	T243	A182	V122	N61

[illegible]

F1025	L965	V965	E845	D785	P725	A665	R665	Y645
F1026	D966	P906	Q846	I786	Q726	F666	V606	L546
Y1027	A967	L907	Q847	G787	F727	F667	E607	I547
V1028	V968	G908	A848	D788	K728	L668	S608	I548
V1029	R969	V909	S849	W789	T729	P669	V609	V549
R1030	M970	I910	X850	Y790	D730	A670	F610	V550
R1031	R971	G911	L851	W791	I731	L671	A611	G551
	L972	A912	P852	R792	D732	V672	V612	M552
S1034	R973	L913	T853	A793	Q733	M673	M613	A553
R1035	P974	L914	G854	A794	E734	L674	G614	Y554
K1036	I975	A915	V855	D795	K735	G675	F615	L555
ASN	L976	A916	G856	G796	A736	V676	G616	F556
GLU	M977	T917	V857	Q797	Q737	A677	V617	V557
ASP	T978	F918	D858	W798	A738	T678	A618	R558
ILE	S979	R919	W859	V799	L739	G679	G619	L559
GLU	L980	G920	T860	P800	G740	F680	R620	P560
HIS	A981	L921	G861	F801	T741	D681	G621	S561
SER	F982	T922	M862	S802	S742	F682	Q622	S562
HIS	I983	N923	S863	A803	T743	E683	R623	F563
THR	L984	D924	Y864	F804	N744	L684	T624	L564
VAL	G985	V925	Q865	S805	D745	I685	G625	P565
ASP	V986	Y926	E866	S806	T746	D686	I626	D566
HIS	M987	F927	R867	S807	N747	G687	A627	E567
HIS	P988	Q928	L868	R808	T748	A688	F628	D568
HIS	L989	V929	S869	W809	T749	G689	V629	Q569
HIS	V990	G930	G870	E810	L750	L690	S630	G570
HIS	I991	L931	M871	F811	G751	G691	L631	V571
HIS	S992	L932	Q872	G812	A752	H692	K632	F572
HIS	T993	T933	A873	S813	A753	E693	D633	M573
	G994	T934	P874	P814	V754	K694	W634	T574
	A995	I935	S875	R815	G755	L695	A635	M575
	G996	V936	L876	L816	G756	T696	D636	V576
	S997	L937	Y877	E817	S757	Q697	R637	Q577
	G998	S938	A878	R818	Y758	A698	P638	L578
	A999	A939	I879	Y819	V759	R699	G639	P579
	Q1000	K940	S880	N820	N760	E640	A580	A580
	N1001	I941	L881	G821	D761	Q701	E641	G581
A1002		A942	I882	L822	F762	L702	M642	A582
V1003		I943	V883	P823	T763	L703	K643	T583
G1004		L944	V884	S824	D764	A704	V644	Q584
T1005		I945	F885	M825	R765	E705	E645	E585
G1006		V946	L886	E826	G766	A706	A646	R586
V1007		E947	C887	I827	R767	A707	I647	T587
M1008		F948	L888	L828	V768	K708	T648	Q588
G1009		A949	A889	G829	K769	H709	M649	X589
G1010		K950	A890	Q830	K770	P710	R650	V590
M1011		D951	L891	A831	V771	D711	A651	L591
V1012		L952	Y892	A832	Y772	T652	T652	N592
T1013		M953	S893	P833	V773	L713	R653	E593
A1014		D954	S894	G834	M774	T714	A654	V594
T1015		K955	W895	K835	S775	S715	F655	T595
V1016		E956	S896	S836	E776	V716	S656	H596
L1017		G957	I897	T837	A777	R717	Q657	Y597
A1018		K958	P898	G838	K778	F718	T658	Y598
I1019		G959	F899	E839	Y779	N719	K659	L599
F1020		L960	S900	A840	R780	D660	T600	T600
F1021		I961	V901	M841	N781	L721	A661	K601
V1022		E962	M902	E842	L782	E722	M662	E602
P1023		A963	L903	L843	P783	D723	V663	K603
V1024		T964	Y904	M844	D784	T724	F664	N604

4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	227.05Å 134.56Å 161.70Å 90.00° 98.08° 90.00°	Depositor
Resolution (Å)	10.00 – 3.30	Depositor
% Data completeness (in resolution range)	94.2 (10.00-3.30)	Depositor
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	REFMAC 5.2.0005	Depositor
R, R_{free}	0.298 , 0.359	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	23361	wwPDB-VP
Average B, all atoms (Å ²)	116.0	wwPDB-VP

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: DM2

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	2.78	426/7920 (5.4%)	2.36	507/10756 (4.7%)
1	B	2.03	219/7920 (2.8%)	2.03	299/10756 (2.8%)
1	C	2.60	452/7920 (5.7%)	2.36	455/10756 (4.2%)
All	All	2.49	1097/23760 (4.6%)	2.26	1261/32268 (3.9%)

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	1	31
1	B	0	11
1	C	0	19
All	All	1	61

All (1097) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	64	VAL	CA-CB	52.28	2.25	1.54
1	A	66	GLU	N-CA	33.62	1.89	1.46
1	A	69	MET	N-CA	28.47	1.82	1.46
1	A	68	ASN	CA-CB	28.41	2.01	1.53
1	A	114	ALA	CA-C	-27.40	1.29	1.52
1	A	818	ARG	CZ-NH1	25.71	1.68	1.32
1	A	72	ILE	C-O	25.02	1.48	1.24
1	A	72	ILE	CA-C	24.69	1.79	1.52
1	A	818	ARG	CA-C	21.41	1.77	1.52
1	A	77	TYR	CA-C	19.87	1.81	1.53
1	A	768	VAL	CA-CB	-19.55	1.34	1.54
1	C	88	VAL	CA-CB	19.12	1.80	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	765	ARG	C-O	18.99	1.48	1.24
1	C	169	THR	N-CA	18.72	1.69	1.46
1	C	763	ILE	CA-CB	-18.71	1.32	1.54
1	A	45	ILE	CA-CB	-18.47	1.28	1.54
1	C	64	VAL	CA-CB	-18.47	1.29	1.54
1	A	68	ASN	C-O	18.43	1.47	1.24
1	A	43	VAL	CA-CB	-18.33	1.31	1.53
1	A	90	ILE	CA-CB	-18.32	1.29	1.54
1	A	65	ILE	C-O	18.32	1.45	1.24
1	A	70	ASN	CG-ND2	18.14	1.71	1.33
1	C	169	THR	CA-CB	17.98	1.82	1.53
1	A	823	PRO	N-CA	16.95	1.69	1.47
1	A	79	SER	CA-C	16.21	1.76	1.53
1	C	160	ALA	CA-CB	-15.79	1.26	1.53
1	A	68	ASN	CG-OD1	15.75	1.53	1.23
1	A	65	ILE	C-N	15.73	1.55	1.33
1	A	102	ILE	CA-CB	-15.61	1.31	1.54
1	C	768	VAL	C-O	15.52	1.42	1.24
1	C	162	MET	N-CA	-15.46	1.26	1.46
1	A	816	LEU	C-O	15.33	1.43	1.24
1	A	92	LEU	C-O	15.32	1.42	1.23
1	B	90	ILE	CA-CB	-15.21	1.37	1.54
1	A	107	VAL	C-O	14.74	1.41	1.24
1	A	88	VAL	CA-CB	-14.59	1.34	1.54
1	C	103	ALA	CA-C	14.59	1.72	1.52
1	C	165	ALA	CA-CB	14.29	1.77	1.53
1	A	822	LEU	CA-C	-14.22	1.34	1.52
1	A	60	THR	C-O	14.15	1.42	1.24
1	C	127	VAL	CA-C	14.15	1.70	1.52
1	C	157	TYR	N-CA	14.04	1.62	1.46
1	C	159	ALA	CA-CB	-13.96	1.29	1.53
1	C	773	VAL	CA-CB	13.96	1.71	1.54
1	A	110	LYS	CB-CG	13.89	1.94	1.52
1	C	156	ASP	C-O	13.80	1.41	1.24
1	A	69	MET	SD-CE	13.78	2.14	1.79
1	A	75	LEU	CA-C	13.68	1.69	1.52
1	C	235	ILE	CA-CB	13.56	1.70	1.54
1	A	61	VAL	C-O	13.52	1.40	1.24
1	C	102	ILE	CA-CB	-13.45	1.36	1.54
1	A	105	VAL	C-O	13.27	1.39	1.24
1	C	169	THR	C-O	13.24	1.38	1.23
1	A	111	LEU	N-CA	13.09	1.61	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	165	ALA	N-CA	13.06	1.63	1.46
1	A	820	ASN	C-N	12.98	1.51	1.33
1	A	82	SER	N-CA	12.94	1.61	1.46
1	C	57	VAL	CA-CB	12.88	1.70	1.54
1	A	112	GLN	CG-CD	12.88	1.84	1.52
1	A	824	SER	C-O	12.75	1.40	1.24
1	A	62	THR	N-CA	12.52	1.62	1.46
1	B	139	VAL	CA-CB	12.39	1.71	1.54
1	C	727	PHE	N-CA	12.37	1.61	1.46
1	C	164	ASP	CB-CG	12.36	1.82	1.52
1	A	108	GLN	C-O	-12.33	1.08	1.24
1	B	236	ALA	CA-CB	-12.30	1.32	1.53
1	C	83	ASP	C-O	12.24	1.38	1.24
1	C	87	THR	N-CA	12.19	1.61	1.46
1	A	727	PHE	CA-C	-12.18	1.37	1.52
1	C	161	ASN	CG-OD1	12.16	1.46	1.23
1	A	822	LEU	CG-CD1	12.14	1.92	1.52
1	C	770	LYS	C-O	12.13	1.38	1.23
1	A	688	ALA	CA-CB	12.07	1.74	1.53
1	C	130	GLU	C-O	12.05	1.38	1.23
1	C	726	GLN	CA-C	-12.01	1.38	1.52
1	C	127	VAL	C-O	11.96	1.38	1.24
1	C	764	ASP	CA-C	-11.90	1.36	1.52
1	A	818	ARG	C-O	11.88	1.38	1.24
1	C	770	LYS	CD-CE	11.82	1.88	1.52
1	C	767	ARG	CZ-NH2	11.76	1.48	1.33
1	C	126	GLY	C-O	11.75	1.39	1.23
1	A	112	GLN	N-CA	-11.59	1.31	1.46
1	A	61	VAL	N-CA	11.56	1.60	1.46
1	A	81	ASN	C-O	11.52	1.39	1.23
1	A	330	THR	CA-CB	11.46	1.71	1.53
1	B	857	TYR	CA-C	11.44	1.67	1.52
1	C	124	GLN	CA-C	-11.41	1.37	1.52
1	C	164	ASP	CG-OD1	11.39	1.47	1.25
1	A	819	TYR	CG-CD2	11.31	1.63	1.39
1	C	291	ILE	CG1-CD1	11.31	1.95	1.51
1	A	725	PRO	C-O	11.29	1.36	1.23
1	C	757	SER	CA-C	-11.20	1.39	1.52
1	A	72	ILE	C-N	11.18	1.49	1.33
1	C	121	GLU	CA-C	11.16	1.67	1.52
1	A	724	THR	C-O	11.15	1.38	1.24
1	A	65	ILE	CA-C	-11.09	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	66	GLU	CD-OE1	11.05	1.46	1.25
1	C	167	SER	N-CA	11.04	1.60	1.46
1	B	767	ARG	CA-C	-11.03	1.39	1.52
1	C	167	SER	CA-C	-11.03	1.37	1.52
1	A	823	PRO	CA-C	10.98	1.68	1.52
1	C	763	ILE	CA-C	10.98	1.66	1.52
1	C	779	TYR	CA-C	-10.95	1.39	1.53
1	A	277	ILE	CA-CB	-10.92	1.39	1.54
1	C	772	TYR	CA-C	10.89	1.65	1.52
1	A	105	VAL	CA-C	10.83	1.66	1.52
1	C	40	PRO	CA-C	-10.82	1.42	1.52
1	A	105	VAL	CA-CB	-10.78	1.39	1.54
1	A	76	MET	CA-C	-10.74	1.38	1.52
1	C	63	GLN	N-CA	10.72	1.60	1.46
1	A	61	VAL	CA-CB	10.72	1.69	1.54
1	B	545	TYR	CA-C	-10.70	1.43	1.53
1	A	820	ASN	C-O	10.66	1.37	1.24
1	C	174	ASP	CA-C	10.66	1.67	1.52
1	A	716	VAL	CA-CB	-10.52	1.41	1.54
1	C	767	ARG	CZ-NH1	10.52	1.47	1.32
1	C	174	ASP	C-O	10.49	1.37	1.24
1	C	341	VAL	CA-C	10.49	1.66	1.52
1	C	1027	VAL	CA-CB	10.49	1.68	1.54
1	C	183	ALA	CA-CB	-10.46	1.32	1.54
1	C	762	PHE	CA-C	10.46	1.67	1.53
1	B	112	GLN	CA-C	10.45	1.66	1.52
1	C	106	GLN	C-O	-10.44	1.10	1.24
1	C	897	ILE	CA-C	10.43	1.63	1.52
1	C	272	GLY	CA-C	10.42	1.61	1.52
1	A	612	VAL	CA-CB	-10.40	1.40	1.54
1	C	168	ARG	CZ-NH2	10.37	1.47	1.33
1	C	159	ALA	C-O	10.31	1.36	1.24
1	C	159	ALA	N-CA	10.31	1.59	1.46
1	A	91	THR	CA-CB	-10.27	1.36	1.53
1	A	60	THR	C-N	10.26	1.47	1.33
1	A	110	LYS	CE-NZ	10.24	1.80	1.49
1	C	771	VAL	CA-CB	-10.23	1.41	1.54
1	C	295	THR	CA-C	10.22	1.66	1.52
1	A	102	ILE	CA-C	10.20	1.66	1.52
1	C	125	GLN	CA-C	10.18	1.64	1.53
1	A	77	TYR	C-O	10.14	1.36	1.23
1	A	721	LEU	CG-CD2	-10.13	1.19	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	171	GLY	C-O	10.12	1.37	1.23
1	C	207	ILE	CA-CB	-10.11	1.41	1.54
1	A	41	PRO	C-O	10.09	1.31	1.24
1	A	213	GLN	CA-C	-10.07	1.41	1.52
1	A	90	ILE	CG1-CD1	10.06	1.91	1.51
1	C	308	ALA	CA-CB	10.05	1.68	1.53
1	A	106	GLN	N-CA	10.04	1.59	1.46
1	B	768	VAL	CA-CB	-10.04	1.40	1.54
1	C	622	GLN	CA-C	10.03	1.66	1.52
1	A	107	VAL	CB-CG1	9.98	1.85	1.52
1	A	55	LYS	CD-CE	9.95	1.82	1.52
1	A	94	PHE	N-CA	9.95	1.58	1.45
1	A	46	SER	C-O	9.94	1.35	1.23
1	A	860	THR	CA-CB	9.90	1.70	1.53
1	B	102	ILE	CA-C	-9.89	1.40	1.52
1	C	789	TRP	CA-CB	9.88	1.66	1.53
1	B	112	GLN	CG-CD	9.88	1.76	1.52
1	A	117	LEU	CG-CD2	9.86	1.85	1.52
1	A	106	GLN	C-N	9.84	1.47	1.33
1	A	73	ASP	CB-CG	9.83	1.76	1.52
1	C	536	ARG	N-CA	9.83	1.58	1.46
1	A	812	GLY	C-O	9.79	1.35	1.23
1	C	294	ALA	C-O	9.79	1.35	1.23
1	A	683	GLU	CA-C	-9.75	1.40	1.52
1	C	536	ARG	CA-C	9.73	1.65	1.52
1	C	163	LYS	CE-NZ	9.72	1.78	1.49
1	C	168	ARG	CZ-NH1	9.71	1.46	1.32
1	B	117	LEU	N-CA	9.69	1.58	1.46
1	C	87	THR	CB-CG2	9.64	1.84	1.52
1	B	6	ILE	CA-CB	9.63	1.67	1.54
1	A	70	ASN	CA-C	-9.62	1.39	1.52
1	C	260	VAL	CA-CB	-9.61	1.41	1.54
1	A	75	LEU	CA-CB	9.60	1.67	1.53
1	C	765	ARG	C-N	9.60	1.45	1.33
1	C	88	VAL	N-CA	9.57	1.57	1.46
1	C	121	GLU	C-O	9.53	1.35	1.24
1	A	117	LEU	CB-CG	9.52	1.72	1.53
1	C	770	LYS	CA-C	9.51	1.64	1.52
1	A	113	LEU	C-O	9.47	1.34	1.23
1	C	767	ARG	C-O	9.47	1.35	1.23
1	A	69	MET	CG-SD	9.44	2.04	1.80
1	A	426	PRO	CA-C	9.42	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	237	GLN	CA-C	9.42	1.64	1.52
1	A	819	TYR	CE2-CZ	9.41	1.60	1.38
1	A	108	GLN	CD-OE1	9.37	1.41	1.23
1	A	55	LYS	N-CA	9.37	1.58	1.46
1	B	762	PHE	C-O	-9.36	1.12	1.23
1	A	819	TYR	CE1-CZ	9.36	1.60	1.38
1	A	724	THR	CA-CB	-9.35	1.38	1.53
1	B	14	VAL	CA-CB	9.35	1.64	1.54
1	C	158	VAL	CB-CG1	9.34	1.83	1.52
1	C	105	VAL	CA-C	9.33	1.64	1.52
1	A	64	VAL	CB-CG1	9.31	1.83	1.52
1	C	54	ALA	CA-C	-9.30	1.40	1.52
1	C	168	ARG	N-CA	-9.29	1.34	1.46
1	A	79	SER	C-O	9.28	1.38	1.24
1	A	719	ASN	CA-C	-9.25	1.41	1.53
1	A	87	THR	CA-CB	-9.22	1.39	1.53
1	C	714	THR	CA-CB	9.18	1.71	1.54
1	B	753	ALA	CA-C	-9.18	1.45	1.52
1	C	764	ASP	CA-CB	-9.17	1.38	1.53
1	C	1028	VAL	CA-CB	9.15	1.64	1.54
1	A	818	ARG	CD-NE	9.14	1.59	1.46
1	A	72	ILE	CA-CB	9.13	1.65	1.53
1	C	166	ILE	N-CA	-9.12	1.34	1.46
1	A	78	MET	N-CA	9.12	1.57	1.46
1	C	671	ILE	CA-CB	9.11	1.66	1.54
1	B	205	THR	CA-CB	9.07	1.68	1.53
1	B	216	ALA	CA-CB	9.06	1.68	1.53
1	C	126	GLY	CA-C	9.02	1.64	1.51
1	A	92	LEU	CA-C	9.01	1.63	1.53
1	A	67	GLN	CD-OE1	8.98	1.40	1.23
1	C	764	ASP	CB-CG	-8.97	1.29	1.52
1	C	775	SER	CA-C	8.97	1.64	1.52
1	B	113	LEU	CA-C	8.96	1.64	1.52
1	A	823	PRO	CG-CD	8.95	1.81	1.50
1	C	808	ARG	N-CA	8.95	1.56	1.45
1	A	115	MET	N-CA	8.91	1.58	1.46
1	A	291	ILE	CA-C	-8.91	1.41	1.52
1	C	87	THR	CA-CB	8.91	1.68	1.53
1	A	817	GLU	CD-OE2	8.91	1.42	1.25
1	B	236	ALA	N-CA	-8.91	1.34	1.46
1	A	822	LEU	CB-CG	8.90	1.71	1.53
1	A	75	LEU	N-CA	8.88	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	168	ARG	NE-CZ	8.87	1.42	1.33
1	A	108	GLN	C-N	-8.86	1.21	1.33
1	A	808	ARG	C-O	8.81	1.34	1.23
1	C	172	VAL	C-O	8.81	1.32	1.24
1	A	78	MET	CA-CB	8.79	1.65	1.53
1	B	1002	ALA	CA-CB	-8.79	1.38	1.53
1	A	416	VAL	CA-C	8.78	1.64	1.52
1	A	688	ALA	N-CA	8.77	1.57	1.46
1	B	274	ASN	CA-C	-8.77	1.42	1.52
1	C	767	ARG	CB-CG	8.76	1.78	1.52
1	A	116	PRO	N-CA	-8.74	1.36	1.47
1	A	64	VAL	CB-CG2	-8.73	1.23	1.52
1	A	1022	VAL	CA-CB	8.73	1.65	1.54
1	C	38	ILE	CA-CB	8.73	1.66	1.54
1	C	166	ILE	CB-CG2	8.73	1.81	1.52
1	B	764	ASP	CA-C	-8.72	1.42	1.52
1	A	57	VAL	CA-CB	-8.71	1.44	1.54
1	B	771	VAL	CA-CB	-8.71	1.42	1.54
1	C	125	GLN	C-O	8.71	1.33	1.23
1	C	456	MET	CA-C	8.70	1.62	1.52
1	A	68	ASN	N-CA	8.70	1.57	1.46
1	C	52	ALA	CA-CB	8.69	1.68	1.53
1	C	771	VAL	N-CA	8.68	1.56	1.46
1	A	100	ALA	CA-C	8.67	1.64	1.52
1	A	52	ALA	C-O	8.66	1.34	1.24
1	B	105	VAL	CB-CG1	8.63	1.81	1.52
1	A	129	VAL	C-O	8.62	1.32	1.24
1	B	52	ALA	CA-C	8.60	1.64	1.52
1	A	159	ALA	CA-CB	-8.60	1.39	1.53
1	A	106	GLN	CD-OE1	8.57	1.39	1.23
1	C	161	ASN	CA-C	8.55	1.63	1.52
1	A	822	LEU	N-CA	8.54	1.58	1.46
1	A	820	ASN	CG-OD1	8.53	1.39	1.23
1	C	206	ALA	CA-C	-8.53	1.42	1.52
1	A	1003	VAL	CA-CB	8.53	1.63	1.54
1	C	120	GLN	C-O	-8.51	1.13	1.24
1	A	58	GLN	CA-C	8.50	1.63	1.52
1	A	817	GLU	N-CA	8.50	1.56	1.46
1	C	234	ILE	CA-CB	-8.49	1.43	1.54
1	B	138	MET	CA-C	-8.49	1.43	1.53
1	C	260	VAL	CA-C	-8.46	1.41	1.52
1	B	185	ARG	CZ-NH2	8.46	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	139	VAL	CA-CB	-8.44	1.43	1.54
1	C	770	LYS	CB-CG	8.43	1.77	1.52
1	C	156	ASP	CA-C	8.39	1.64	1.52
1	B	41	PRO	C-O	8.37	1.32	1.23
1	B	768	VAL	C-O	-8.36	1.14	1.24
1	C	158	VAL	CA-CB	-8.36	1.45	1.54
1	C	164	ASP	C-O	8.33	1.34	1.24
1	C	780	ARG	N-CA	8.32	1.54	1.46
1	C	38	ILE	CA-C	8.32	1.63	1.52
1	B	392	THR	CA-CB	8.30	1.66	1.53
1	C	441	ALA	CA-C	8.28	1.60	1.52
1	B	406	VAL	CA-CB	8.28	1.64	1.54
1	C	334	LYS	CA-C	8.25	1.63	1.52
1	A	644	VAL	CA-CB	-8.24	1.43	1.54
1	C	156	ASP	C-N	8.22	1.43	1.33
1	C	897	ILE	CA-CB	8.22	1.64	1.54
1	C	163	LYS	N-CA	8.21	1.56	1.46
1	B	291	ILE	CA-CB	-8.21	1.43	1.54
1	C	698	ALA	CA-CB	-8.21	1.40	1.53
1	A	57	VAL	C-O	8.18	1.31	1.23
1	C	131	LYS	C-O	8.16	1.33	1.24
1	A	145	THR	CA-CB	8.14	1.65	1.53
1	C	815	ARG	N-CA	8.13	1.55	1.46
1	A	819	TYR	N-CA	8.13	1.56	1.45
1	A	990	VAL	CA-CB	8.12	1.65	1.54
1	B	233	SER	CA-C	-8.10	1.42	1.53
1	C	991	ILE	CA-CB	8.10	1.65	1.54
1	C	128	SER	N-CA	8.09	1.56	1.46
1	C	44	THR	CA-C	8.07	1.61	1.52
1	A	111	LEU	CG-CD1	8.06	1.79	1.52
1	B	105	VAL	CA-C	-8.06	1.42	1.52
1	B	367	ILE	CA-C	8.02	1.61	1.52
1	A	543	VAL	CA-CB	8.01	1.64	1.54
1	A	48	SER	C-O	7.98	1.34	1.23
1	A	67	GLN	CA-C	7.97	1.63	1.52
1	C	249	ILE	CA-CB	-7.96	1.44	1.54
1	A	809	TRP	C-O	7.96	1.33	1.23
1	C	183	ALA	CA-C	-7.93	1.43	1.52
1	C	236	ALA	CA-C	7.92	1.57	1.53
1	C	246	PHE	C-O	-7.90	1.14	1.24
1	A	110	LYS	CA-C	7.87	1.63	1.52
1	A	101	ASP	C-O	-7.84	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	379	THR	N-CA	7.84	1.55	1.46
1	A	42	ALA	C-O	7.83	1.32	1.23
1	C	90	ILE	CA-C	-7.82	1.43	1.52
1	A	37	THR	CA-C	-7.82	1.43	1.53
1	A	68	ASN	C-N	7.80	1.44	1.33
1	C	273	GLU	CA-C	-7.80	1.42	1.52
1	A	43	VAL	C-O	7.79	1.32	1.24
1	A	66	GLU	CG-CD	7.79	1.71	1.52
1	C	315	PRO	CA-C	7.78	1.63	1.52
1	C	758	TYR	CE1-CZ	7.78	1.56	1.38
1	C	184	MET	SD-CE	7.77	1.99	1.79
1	C	272	GLY	C-O	7.77	1.34	1.23
1	C	779	TYR	CA-CB	-7.75	1.42	1.53
1	C	184	MET	N-CA	7.75	1.56	1.46
1	C	993	THR	CA-CB	7.74	1.66	1.53
1	C	341	VAL	CA-CB	7.73	1.65	1.54
1	B	759	VAL	CA-CB	7.72	1.66	1.55
1	A	114	ALA	C-O	7.71	1.33	1.23
1	C	166	ILE	CB-CG1	7.71	1.68	1.53
1	A	120	GLN	N-CA	7.71	1.56	1.46
1	A	84	SER	N-CA	-7.71	1.36	1.46
1	A	62	THR	CA-CB	-7.71	1.40	1.53
1	A	128	SER	CA-C	7.70	1.62	1.52
1	C	789	TRP	CA-C	7.70	1.62	1.52
1	C	211	ASN	CA-C	-7.65	1.43	1.53
1	B	128	SER	N-CA	7.65	1.54	1.45
1	C	131	LYS	CE-NZ	7.63	1.72	1.49
1	B	466	ILE	CA-C	-7.63	1.43	1.52
1	A	128	SER	C-O	7.61	1.32	1.23
1	A	92	LEU	N-CA	-7.61	1.36	1.47
1	B	867	ARG	CA-C	7.60	1.63	1.52
1	B	35	TYR	CA-C	-7.58	1.41	1.52
1	A	818	ARG	CB-CG	7.57	1.75	1.52
1	C	611	ALA	CA-CB	-7.56	1.42	1.53
1	C	658	ILE	CA-CB	7.55	1.64	1.54
1	C	65	ILE	CB-CG2	7.55	1.77	1.52
1	A	44	THR	CA-CB	-7.54	1.40	1.53
1	A	484	VAL	CA-CB	7.54	1.64	1.54
1	A	816	LEU	CG-CD2	7.53	1.77	1.52
1	A	722	GLU	N-CA	-7.52	1.36	1.46
1	B	112	GLN	N-CA	7.52	1.55	1.46
1	C	116	PRO	C-O	-7.52	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	699	ARG	C-O	-7.51	1.14	1.24
1	A	574	THR	N-CA	-7.51	1.36	1.45
1	A	735	LYS	CA-C	-7.50	1.43	1.52
1	C	59	ASP	N-CA	-7.50	1.36	1.46
1	B	292	LYS	CA-C	7.49	1.63	1.53
1	A	816	LEU	CA-C	-7.49	1.43	1.52
1	C	264	ASP	N-CA	7.48	1.56	1.46
1	A	71	GLY	CA-C	7.48	1.62	1.51
1	C	61	VAL	N-CA	7.48	1.55	1.46
1	C	612	VAL	CA-CB	-7.47	1.43	1.54
1	C	729	ILE	CA-CB	-7.46	1.44	1.54
1	C	736	ALA	CA-CB	-7.46	1.41	1.53
1	C	521	GLU	CA-C	7.44	1.62	1.52
1	B	35	TYR	C-O	-7.43	1.16	1.23
1	A	593	GLU	CA-C	7.43	1.62	1.52
1	A	813	SER	CA-C	7.42	1.62	1.53
1	C	1022	VAL	CA-CB	7.40	1.58	1.54
1	A	118	LEU	CA-C	7.38	1.61	1.53
1	A	249	ILE	CA-CB	7.38	1.63	1.54
1	A	789	TRP	CA-CB	7.35	1.63	1.53
1	A	74	ASN	CA-C	-7.34	1.43	1.52
1	A	104	GLN	CD-OE1	7.34	1.37	1.23
1	A	112	GLN	CB-CG	7.33	1.74	1.52
1	C	766	GLY	N-CA	7.33	1.56	1.45
1	A	103	ALA	C-O	7.33	1.33	1.24
1	A	823	PRO	C-O	-7.32	1.14	1.24
1	A	63	GLN	N-CA	-7.32	1.36	1.46
1	A	812	GLY	N-CA	7.32	1.53	1.45
1	C	40	PRO	C-O	-7.30	1.16	1.24
1	A	72	ILE	CB-CG1	7.30	1.68	1.53
1	B	538	THR	CA-CB	7.30	1.67	1.52
1	A	290	GLY	N-CA	7.29	1.54	1.45
1	B	381	ALA	CA-C	7.29	1.62	1.52
1	B	924	ASP	CA-C	-7.29	1.43	1.53
1	C	805	SER	CA-C	-7.28	1.46	1.53
1	C	770	LYS	CG-CD	7.27	1.74	1.52
1	A	106	GLN	CA-CB	7.27	1.65	1.53
1	A	820	ASN	CA-CB	-7.26	1.41	1.53
1	C	42	ALA	CA-CB	-7.26	1.40	1.53
1	A	723	ASP	CA-C	-7.25	1.43	1.52
1	A	271	GLY	CA-C	-7.23	1.45	1.52
1	C	165	ALA	C-O	7.23	1.33	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	905	VAL	CA-CB	7.23	1.63	1.54
1	B	248	LYS	CA-C	7.23	1.61	1.53
1	A	110	LYS	N-CA	7.22	1.55	1.46
1	C	204	ILE	N-CA	-7.22	1.37	1.46
1	C	627	ALA	N-CA	7.21	1.55	1.46
1	C	176	GLN	CG-CD	7.21	1.70	1.52
1	C	136	PHE	CA-C	-7.20	1.44	1.52
1	C	175	VAL	CA-C	7.20	1.61	1.52
1	C	123	GLN	CA-C	-7.19	1.43	1.52
1	A	253	VAL	CA-C	7.18	1.62	1.52
1	C	758	TYR	CA-C	-7.18	1.43	1.52
1	A	749	THR	CA-CB	-7.18	1.42	1.53
1	A	762	PHE	N-CA	-7.17	1.37	1.46
1	A	44	THR	CB-CG2	-7.17	1.28	1.52
1	B	853	THR	CA-CB	7.17	1.65	1.53
1	B	1034	SER	CA-CB	7.16	1.58	1.53
1	C	261	LEU	N-CA	-7.16	1.37	1.45
1	A	50	PRO	CA-CB	7.14	1.64	1.53
1	B	897	ILE	CA-CB	7.14	1.63	1.54
1	C	138	MET	C-O	-7.14	1.15	1.24
1	A	862	MET	N-CA	-7.14	1.37	1.46
1	A	808	ARG	CA-C	7.12	1.61	1.52
1	B	674	LEU	N-CA	7.11	1.55	1.46
1	C	122	VAL	CA-CB	-7.11	1.44	1.54
1	C	202	ASP	CA-C	-7.09	1.43	1.52
1	A	813	SER	C-O	-7.09	1.13	1.23
1	B	370	ILE	CA-CB	7.09	1.62	1.54
1	C	104	GLN	N-CA	7.09	1.55	1.46
1	A	67	GLN	CA-CB	7.08	1.65	1.53
1	A	395	MET	CA-C	-7.08	1.43	1.52
1	C	57	VAL	N-CA	7.07	1.55	1.46
1	A	64	VAL	C-O	-7.06	1.15	1.24
1	A	811	TYR	C-O	7.05	1.32	1.23
1	C	714	THR	CA-C	7.05	1.61	1.52
1	C	155	SER	CA-C	7.05	1.61	1.52
1	A	731	ILE	C-O	7.04	1.32	1.24
1	B	107	VAL	C-O	7.04	1.32	1.24
1	A	124	GLN	N-CA	-7.03	1.37	1.46
1	C	155	SER	N-CA	-7.02	1.38	1.46
1	B	215	ALA	CA-C	-7.02	1.43	1.53
1	A	118	LEU	CG-CD2	7.01	1.75	1.52
1	C	515	TRP	CA-C	7.01	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1034	SER	CA-C	7.01	1.60	1.53
1	C	810	GLU	C-O	7.01	1.31	1.23
1	B	672	VAL	CA-C	7.00	1.61	1.52
1	C	164	ASP	N-CA	-7.00	1.37	1.46
1	C	165	ALA	CA-C	6.96	1.62	1.52
1	C	160	ALA	CA-C	6.96	1.62	1.52
1	C	122	VAL	CB-CG1	-6.96	1.29	1.52
1	C	210	GLN	CG-CD	6.95	1.69	1.52
1	C	96	SER	CA-C	-6.95	1.44	1.52
1	A	685	ILE	CB-CG2	6.94	1.75	1.52
1	C	132	SER	N-CA	-6.93	1.37	1.46
1	C	39	ALA	C-N	6.93	1.41	1.33
1	A	684	LEU	C-O	-6.92	1.15	1.24
1	C	96	SER	C-O	-6.92	1.15	1.24
1	C	60	THR	CB-CG2	6.92	1.75	1.52
1	B	426	PRO	CA-C	6.92	1.58	1.52
1	B	923	ASN	CA-C	6.91	1.62	1.52
1	A	416	VAL	CA-CB	6.91	1.65	1.54
1	C	661	ALA	CA-C	6.90	1.60	1.52
1	B	131	LYS	CG-CD	6.89	1.73	1.52
1	B	117	LEU	CA-C	6.89	1.62	1.52
1	A	59	ASP	C-O	6.89	1.32	1.24
1	A	951	ASP	N-CA	6.89	1.54	1.46
1	C	54	ALA	CA-CB	-6.87	1.41	1.53
1	B	922	THR	CA-CB	6.87	1.65	1.54
1	C	300	LEU	CA-C	-6.86	1.44	1.52
1	C	92	LEU	C-O	6.86	1.32	1.24
1	C	172	VAL	N-CA	6.86	1.55	1.46
1	B	222	THR	C-N	6.84	1.41	1.33
1	A	214	VAL	CA-CB	-6.84	1.46	1.54
1	A	62	THR	C-N	-6.83	1.24	1.33
1	C	277	ILE	C-O	-6.83	1.15	1.23
1	C	750	LEU	C-O	6.82	1.32	1.24
1	A	815	ARG	CG-CD	6.82	1.73	1.52
1	B	36	PRO	CA-C	6.82	1.62	1.52
1	B	849	SER	CA-C	6.82	1.61	1.52
1	C	140	VAL	C-O	-6.82	1.15	1.23
1	B	771	VAL	CA-C	-6.81	1.44	1.52
1	C	158	VAL	C-N	6.81	1.43	1.33
1	B	680	PHE	CA-C	6.80	1.61	1.52
1	A	106	GLN	CD-NE2	6.80	1.47	1.33
1	C	769	LYS	C-O	-6.80	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	582	ALA	CA-CB	-6.79	1.42	1.53
1	A	726	GLN	CD-OE1	6.77	1.36	1.23
1	B	1007	VAL	N-CA	6.76	1.52	1.46
1	C	300	LEU	N-CA	-6.76	1.38	1.46
1	C	292	LYS	C-O	6.76	1.32	1.23
1	A	826	GLU	CA-C	-6.76	1.43	1.52
1	B	472	ILE	C-O	-6.75	1.16	1.24
1	C	135	SER	CA-C	-6.75	1.43	1.53
1	A	89	GLN	C-O	6.75	1.32	1.23
1	B	386	PHE	N-CA	6.75	1.53	1.46
1	C	1028	VAL	N-CA	6.75	1.54	1.46
1	C	175	VAL	CA-CB	-6.74	1.46	1.54
1	A	685	ILE	CA-CB	-6.74	1.45	1.54
1	B	634	TRP	N-CA	6.74	1.54	1.46
1	B	91	THR	N-CA	6.74	1.54	1.46
1	C	184	MET	CB-CG	6.73	1.72	1.52
1	B	310	LEU	N-CA	6.73	1.54	1.46
1	A	292	LYS	N-CA	6.72	1.54	1.45
1	A	101	ASP	CA-C	-6.72	1.44	1.52
1	B	407	ASP	CA-C	-6.71	1.44	1.52
1	A	801	PHE	CB-CG	6.71	1.66	1.50
1	B	212	ALA	CA-C	-6.71	1.46	1.53
1	A	804	PHE	N-CA	6.70	1.54	1.46
1	A	817	GLU	CA-C	-6.70	1.44	1.52
1	C	102	ILE	N-CA	-6.70	1.38	1.46
1	A	112	GLN	CA-C	6.68	1.61	1.52
1	A	107	VAL	C-N	6.68	1.43	1.33
1	A	859	TRP	N-CA	6.68	1.53	1.45
1	C	59	ASP	CA-C	-6.67	1.43	1.52
1	B	207	ILE	CA-C	-6.67	1.45	1.52
1	B	550	VAL	CA-C	6.67	1.59	1.52
1	B	184	MET	CA-C	-6.66	1.44	1.53
1	A	67	GLN	CG-CD	6.66	1.68	1.52
1	B	1027	VAL	CA-CB	6.65	1.61	1.54
1	C	626	ILE	CA-CB	-6.65	1.45	1.54
1	A	657	GLN	N-CA	6.65	1.54	1.46
1	A	58	GLN	N-CA	-6.65	1.38	1.46
1	C	762	PHE	C-O	6.65	1.32	1.23
1	A	189	ASN	N-CA	6.64	1.55	1.46
1	A	230	LEU	CA-C	6.64	1.61	1.52
1	C	768	VAL	C-N	6.64	1.43	1.33
1	B	674	LEU	CA-C	6.62	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	811	TYR	CA-C	-6.62	1.44	1.52
1	C	129	VAL	N-CA	6.61	1.54	1.46
1	C	767	ARG	N-CA	-6.60	1.38	1.47
1	C	115	MET	CA-C	-6.59	1.44	1.52
1	A	85	THR	C-O	6.58	1.28	1.23
1	A	73	ASP	CG-OD1	6.58	1.37	1.25
1	A	49	TYR	CA-C	-6.58	1.44	1.52
1	C	278	ILE	CA-C	-6.57	1.44	1.52
1	A	42	ALA	CA-CB	-6.56	1.43	1.53
1	C	811	TYR	CA-CB	-6.56	1.43	1.53
1	A	855	VAL	CA-C	6.56	1.61	1.52
1	A	66	GLU	C-N	-6.55	1.24	1.33
1	A	77	TYR	N-CA	6.55	1.53	1.45
1	B	137	LEU	N-CA	-6.54	1.38	1.46
1	C	47	ALA	N-CA	6.54	1.54	1.45
1	A	729	ILE	CA-C	-6.53	1.44	1.52
1	C	814	PRO	N-CA	-6.53	1.40	1.47
1	C	754	TRP	CA-C	6.52	1.61	1.52
1	B	853	THR	N-CA	6.52	1.54	1.46
1	C	304	ALA	CA-C	6.51	1.61	1.52
1	A	814	PRO	C-O	-6.50	1.16	1.24
1	A	926	TYR	CA-C	6.50	1.61	1.52
1	A	90	ILE	C-O	6.50	1.31	1.24
1	A	104	GLN	N-CA	6.49	1.54	1.46
1	C	270	LEU	CG-CD1	6.49	1.74	1.52
1	B	49	TYR	N-CA	6.48	1.54	1.46
1	C	160	ALA	N-CA	6.47	1.54	1.46
1	A	324	VAL	CA-C	-6.47	1.46	1.53
1	A	324	VAL	CA-CB	-6.47	1.45	1.54
1	A	188	MET	CA-C	6.45	1.61	1.52
1	C	375	VAL	CA-C	6.43	1.60	1.52
1	C	767	ARG	CA-C	-6.43	1.45	1.53
1	B	410	ILE	CA-CB	6.43	1.63	1.54
1	B	218	GLN	CA-C	-6.42	1.44	1.52
1	A	196	PHE	CA-C	-6.42	1.43	1.52
1	B	336	SER	CA-C	6.42	1.61	1.52
1	A	76	MET	C-O	-6.40	1.16	1.24
1	B	467	TYR	N-CA	6.39	1.54	1.46
1	C	305	ALA	CA-CB	6.39	1.63	1.53
1	A	722	GLU	C-O	6.38	1.31	1.23
1	C	215	ALA	CA-C	-6.38	1.45	1.53
1	C	751	GLY	CA-C	-6.38	1.42	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	651	ALA	CA-C	6.37	1.61	1.52
1	A	747	ASN	CB-CG	6.36	1.68	1.52
1	C	100	ALA	CA-CB	-6.36	1.42	1.53
1	C	758	TYR	CB-CG	-6.36	1.37	1.51
1	B	107	VAL	CA-C	6.35	1.60	1.52
1	C	123	GLN	C-O	-6.35	1.16	1.24
1	B	198	LEU	CA-C	6.34	1.60	1.52
1	C	236	ALA	C-O	6.34	1.31	1.24
1	A	49	TYR	C-O	-6.34	1.16	1.24
1	A	102	ILE	CB-CG1	-6.33	1.40	1.53
1	C	182	TYR	C-O	6.33	1.31	1.23
1	B	112	GLN	CD-NE2	6.33	1.46	1.33
1	C	741	VAL	CA-CB	6.33	1.62	1.54
1	B	52	ALA	N-CA	6.32	1.54	1.46
1	C	661	ALA	N-CA	6.32	1.53	1.45
1	C	161	ASN	C-O	6.32	1.32	1.23
1	A	757	SER	CA-C	-6.31	1.44	1.52
1	B	291	ILE	C-O	-6.30	1.16	1.24
1	B	731	ILE	CA-CB	-6.30	1.47	1.54
1	A	270	LEU	N-CA	6.29	1.53	1.46
1	C	671	ILE	N-CA	6.29	1.54	1.46
1	A	729	ILE	CA-CB	-6.28	1.46	1.54
1	C	107	VAL	CA-CB	6.28	1.63	1.54
1	B	324	VAL	CA-CB	-6.27	1.46	1.54
1	C	252	LYS	N-CA	6.27	1.53	1.46
1	C	671	ILE	CA-C	6.27	1.60	1.52
1	A	73	ASP	N-CA	6.27	1.54	1.46
1	B	230	LEU	N-CA	6.26	1.54	1.46
1	A	44	THR	C-O	6.26	1.31	1.23
1	A	697	GLN	N-CA	6.26	1.54	1.46
1	B	892	TYR	N-CA	6.25	1.53	1.46
1	C	567	GLU	N-CA	6.25	1.54	1.45
1	B	201	VAL	CA-CB	-6.24	1.47	1.54
1	A	104	GLN	CA-CB	-6.24	1.43	1.53
1	C	814	PRO	CA-C	-6.24	1.45	1.52
1	C	733	GLN	CA-C	6.23	1.61	1.52
1	A	811	TYR	CA-CB	-6.22	1.43	1.53
1	C	756	GLY	N-CA	6.22	1.52	1.45
1	A	143	ILE	CA-C	6.22	1.58	1.52
1	C	42	ALA	C-O	6.22	1.31	1.23
1	A	736	ALA	CA-CB	-6.21	1.43	1.53
1	C	682	PHE	N-CA	-6.21	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	246	PHE	CA-C	-6.21	1.44	1.52
1	A	103	ALA	N-CA	6.21	1.54	1.46
1	A	721	LEU	N-CA	6.20	1.53	1.45
1	A	658	ILE	CA-CB	6.20	1.60	1.53
1	A	301	ASP	N-CA	6.20	1.53	1.46
1	A	717	ARG	CA-C	6.20	1.58	1.52
1	A	668	LEU	CA-C	-6.20	1.45	1.52
1	C	463	THR	CA-CB	6.19	1.64	1.53
1	C	98	THR	N-CA	6.19	1.54	1.46
1	C	105	VAL	CB-CG2	6.19	1.73	1.52
1	A	116	PRO	CA-C	-6.18	1.43	1.52
1	C	759	VAL	CB-CG1	6.18	1.73	1.52
1	A	726	GLN	C-O	6.17	1.31	1.23
1	A	728	LYS	CA-C	6.17	1.60	1.52
1	B	443	VAL	C-O	-6.17	1.16	1.24
1	C	585	GLU	CG-CD	6.17	1.67	1.52
1	A	39	ALA	CA-CB	-6.17	1.42	1.53
1	A	483	LEU	CA-C	6.17	1.61	1.52
1	B	767	ARG	N-CA	-6.16	1.39	1.46
1	C	684	LEU	C-O	-6.16	1.16	1.24
1	B	1002	ALA	CA-C	-6.16	1.44	1.52
1	C	261	LEU	CA-C	-6.15	1.45	1.52
1	C	69	MET	N-CA	6.15	1.55	1.46
1	A	63	GLN	C-N	6.15	1.42	1.33
1	A	416	VAL	N-CA	6.15	1.54	1.46
1	C	865	GLN	N-CA	6.15	1.54	1.46
1	A	1035	ARG	CA-C	6.14	1.60	1.52
1	B	171	GLY	N-CA	6.14	1.54	1.45
1	A	45	ILE	CB-CG2	-6.13	1.32	1.52
1	C	837	THR	CA-C	6.12	1.60	1.52
1	B	626	ILE	CA-C	-6.12	1.47	1.52
1	B	392	THR	CA-C	6.12	1.60	1.52
1	C	159	ALA	CA-C	-6.12	1.44	1.52
1	A	819	TYR	CZ-OH	6.11	1.50	1.38
1	A	825	MET	CA-C	-6.11	1.44	1.52
1	C	42	ALA	N-CA	-6.10	1.39	1.46
1	C	815	ARG	CA-C	-6.10	1.45	1.52
1	A	687	GLN	CA-CB	6.10	1.63	1.53
1	A	135	SER	CA-C	6.09	1.60	1.52
1	B	724	THR	CA-CB	6.09	1.61	1.54
1	B	827	ILE	N-CA	6.09	1.53	1.46
1	A	398	MET	N-CA	6.09	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	425	LEU	CA-C	6.09	1.60	1.52
1	A	253	VAL	CA-CB	6.08	1.62	1.54
1	B	685	ILE	CA-C	6.08	1.60	1.52
1	A	54	ALA	CA-CB	-6.08	1.43	1.53
1	A	771	VAL	CA-CB	-6.06	1.46	1.54
1	C	133	SER	CA-C	-6.06	1.45	1.52
1	C	280	GLU	CA-C	-6.06	1.45	1.52
1	B	358	PHE	N-CA	-6.05	1.41	1.47
1	C	879	ILE	CA-CB	6.05	1.61	1.54
1	B	543	VAL	CA-CB	6.04	1.61	1.54
1	C	234	ILE	C-O	-6.04	1.17	1.24
1	A	748	THR	CA-CB	-6.04	1.43	1.53
1	B	235	ILE	C-O	-6.03	1.16	1.24
1	A	853	THR	CA-C	-6.02	1.45	1.52
1	C	83	ASP	CA-CB	6.01	1.61	1.53
1	C	930	GLY	N-CA	6.01	1.54	1.45
1	A	113	LEU	CA-C	6.01	1.59	1.52
1	C	94	PHE	N-CA	-6.01	1.38	1.45
1	B	1035	ARG	CA-C	6.00	1.57	1.52
1	B	583	THR	CA-CB	5.99	1.63	1.53
1	B	828	LEU	CA-C	-5.99	1.45	1.53
1	C	43	VAL	N-CA	5.99	1.52	1.46
1	B	84	SER	N-CA	5.99	1.53	1.46
1	C	58	GLN	CA-CB	-5.98	1.45	1.53
1	A	729	ILE	N-CA	-5.98	1.38	1.46
1	C	109	ASN	CA-C	-5.98	1.45	1.52
1	C	876	LEU	CA-C	-5.98	1.47	1.53
1	C	828	LEU	N-CA	-5.97	1.38	1.45
1	C	734	GLU	CA-C	5.97	1.60	1.52
1	A	72	ILE	N-CA	-5.97	1.39	1.46
1	A	817	GLU	C-O	5.96	1.31	1.24
1	C	102	ILE	CA-C	-5.96	1.45	1.52
1	B	16	ALA	CA-CB	-5.95	1.45	1.53
1	A	91	THR	CA-C	5.95	1.60	1.52
1	B	459	PHE	CB-CG	5.94	1.64	1.50
1	B	521	GLU	CA-C	5.94	1.60	1.52
1	A	451	ALA	CA-C	5.94	1.61	1.52
1	C	622	GLN	C-O	5.93	1.31	1.24
1	C	765	ARG	N-CA	5.93	1.53	1.46
1	A	747	ASN	CA-C	-5.93	1.44	1.52
1	C	156	ASP	CG-OD1	5.92	1.36	1.25
1	A	70	ASN	C-O	5.92	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	652	THR	CA-CB	5.91	1.62	1.53
1	A	55	LYS	CE-NZ	5.91	1.67	1.49
1	B	32	VAL	CA-CB	-5.91	1.46	1.53
1	B	658	ILE	CA-CB	5.91	1.62	1.54
1	C	203	VAL	CA-C	-5.91	1.45	1.52
1	C	318	PRO	N-CA	-5.90	1.39	1.47
1	A	550	VAL	CA-CB	5.90	1.62	1.54
1	C	47	ALA	CA-CB	5.90	1.64	1.53
1	B	593	GLU	CG-CD	5.90	1.66	1.52
1	C	65	ILE	N-CA	5.90	1.53	1.46
1	A	825	MET	SD-CE	5.89	1.94	1.79
1	A	103	ALA	C-N	5.89	1.42	1.33
1	B	1021	PHE	N-CA	-5.89	1.38	1.46
1	A	176	GLN	N-CA	5.88	1.53	1.46
1	C	157	TYR	CA-CB	5.88	1.62	1.53
1	C	271	GLY	N-CA	5.88	1.53	1.45
1	C	132	SER	CA-C	-5.88	1.44	1.52
1	B	213	GLN	N-CA	5.87	1.53	1.46
1	C	111	LEU	N-CA	5.87	1.53	1.46
1	A	547	ILE	CA-CB	5.87	1.61	1.54
1	C	77	TYR	CA-C	5.87	1.59	1.52
1	B	316	PHE	C-O	-5.87	1.17	1.23
1	C	330	THR	CA-C	5.86	1.60	1.52
1	C	681	ASP	C-O	-5.86	1.16	1.23
1	A	775	SER	N-CA	5.85	1.53	1.46
1	C	487	ILE	CA-CB	-5.85	1.46	1.54
1	A	60	THR	N-CA	5.85	1.53	1.46
1	C	101	ASP	CA-C	-5.85	1.45	1.52
1	C	49	TYR	CG-CD1	-5.84	1.27	1.39
1	B	94	PHE	N-CA	5.84	1.52	1.45
1	A	99	ASP	CG-OD2	5.84	1.36	1.25
1	B	494	ALA	CA-C	5.84	1.60	1.52
1	C	305	ALA	N-CA	5.83	1.53	1.46
1	C	170	SER	C-O	5.83	1.31	1.24
1	C	751	GLY	N-CA	-5.82	1.36	1.45
1	C	660	ASP	CB-CG	5.82	1.66	1.52
1	A	817	GLU	CD-OE1	5.82	1.36	1.25
1	C	841	MET	CA-C	-5.81	1.45	1.52
1	C	176	GLN	C-O	5.81	1.31	1.23
1	A	38	ILE	N-CA	-5.81	1.40	1.46
1	C	155	SER	C-O	5.81	1.30	1.24
1	A	409	ALA	N-CA	5.80	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	268	ILE	CA-CB	5.80	1.61	1.54
1	A	293	LEU	N-CA	5.79	1.53	1.46
1	C	284	GLN	N-CA	5.79	1.54	1.46
1	A	564	LEU	CA-C	-5.79	1.45	1.52
1	A	59	ASP	CB-CG	5.78	1.66	1.52
1	C	803	ALA	CA-CB	-5.78	1.44	1.53
1	A	50	PRO	CA-C	5.78	1.60	1.52
1	A	69	MET	C-N	5.78	1.41	1.33
1	A	782	LEU	CA-CB	-5.78	1.46	1.54
1	A	815	ARG	CB-CG	5.77	1.69	1.52
1	C	201	VAL	CA-CB	-5.77	1.46	1.54
1	C	237	GLN	CB-CG	-5.77	1.35	1.52
1	C	474	ILE	CA-C	5.77	1.60	1.52
1	A	685	ILE	C-O	-5.77	1.17	1.24
1	C	590	VAL	N-CA	-5.76	1.39	1.46
1	B	925	VAL	N-CA	-5.75	1.40	1.46
1	B	712	MET	CG-SD	5.75	1.95	1.80
1	B	316	PHE	CA-C	-5.74	1.44	1.52
1	A	997	SER	N-CA	5.74	1.50	1.46
1	C	46	SER	CA-CB	5.74	1.63	1.53
1	A	791	VAL	N-CA	5.73	1.53	1.46
1	C	235	ILE	CB-CG2	-5.73	1.33	1.52
1	C	273	GLU	CD-OE2	5.72	1.36	1.25
1	C	305	ALA	CA-C	5.72	1.59	1.52
1	A	165	ALA	CA-C	-5.72	1.45	1.52
1	A	915	ALA	CA-CB	-5.72	1.43	1.53
1	B	752	ALA	CA-CB	-5.71	1.43	1.53
1	A	603	LYS	N-CA	5.71	1.53	1.46
1	C	760	ASN	C-O	5.71	1.31	1.24
1	C	912	ALA	CA-C	5.71	1.60	1.52
1	A	839	GLU	CA-C	5.70	1.60	1.52
1	B	237	GLN	CA-C	-5.70	1.45	1.52
1	B	215	ALA	C-O	-5.70	1.16	1.23
1	A	133	SER	N-CA	5.70	1.53	1.46
1	C	45	ILE	CA-CB	5.70	1.60	1.54
1	A	409	ALA	CA-CB	5.69	1.62	1.53
1	A	704	ALA	CA-C	-5.69	1.45	1.52
1	A	823	PRO	CB-CG	5.69	1.78	1.49
1	B	858	ASP	CB-CG	5.69	1.66	1.52
1	A	618	ALA	CA-C	5.69	1.60	1.52
1	B	1024	VAL	CA-CB	5.68	1.62	1.54
1	A	1005	THR	CA-CB	5.68	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	327	TYR	CA-C	5.68	1.60	1.52
1	A	825	MET	C-O	5.67	1.31	1.24
1	C	112	GLN	CA-C	5.67	1.60	1.52
1	A	626	ILE	CA-CB	-5.66	1.45	1.55
1	A	65	ILE	CA-CB	-5.66	1.46	1.54
1	C	141	GLY	C-O	-5.66	1.16	1.23
1	C	84	SER	CA-C	5.66	1.60	1.52
1	A	806	SER	C-O	-5.65	1.17	1.23
1	B	174	ASP	CA-C	5.65	1.60	1.52
1	B	941	ASN	CA-C	-5.65	1.45	1.52
1	A	412	VAL	CA-C	5.65	1.59	1.52
1	A	687	GLN	N-CA	5.64	1.53	1.46
1	B	243	THR	CA-CB	5.64	1.62	1.53
1	A	80	SER	CA-C	-5.64	1.45	1.52
1	B	138	MET	CA-CB	-5.64	1.46	1.54
1	B	1033	PHE	N-CA	5.64	1.52	1.46
1	C	203	VAL	CA-CB	-5.64	1.48	1.54
1	A	70	ASN	CG-OD1	5.63	1.34	1.23
1	A	720	GLY	N-CA	5.63	1.51	1.45
1	C	106	GLN	CD-OE1	5.62	1.34	1.23
1	B	487	ILE	CA-CB	5.62	1.62	1.54
1	A	688	ALA	C-O	5.62	1.30	1.23
1	A	814	PRO	CA-C	-5.62	1.45	1.52
1	B	134	SER	N-CA	5.61	1.52	1.46
1	A	55	LYS	CG-CD	5.61	1.69	1.52
1	A	549	VAL	CA-CB	5.61	1.62	1.54
1	C	114	ALA	CA-CB	-5.61	1.43	1.53
1	C	819	TYR	C-O	-5.61	1.17	1.23
1	B	335	ILE	C-O	-5.60	1.17	1.23
1	C	181	GLN	CD-OE1	5.60	1.34	1.23
1	C	538	THR	CA-C	5.60	1.58	1.52
1	A	133	SER	CA-C	5.60	1.60	1.52
1	A	73	ASP	C-N	-5.59	1.25	1.33
1	C	130	GLU	CA-C	5.59	1.59	1.52
1	C	316	PHE	C-O	5.59	1.31	1.24
1	C	425	LEU	CA-C	5.59	1.59	1.52
1	A	176	GLN	CA-C	5.58	1.59	1.52
1	B	130	GLU	C-O	5.58	1.31	1.23
1	A	91	THR	N-CA	5.58	1.53	1.46
1	A	273	GLU	C-O	-5.58	1.17	1.24
1	A	52	ALA	N-CA	-5.58	1.39	1.46
1	A	1022	VAL	CA-C	5.58	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	163	LYS	CD-CE	5.58	1.69	1.52
1	A	917	THR	CA-CB	5.58	1.62	1.53
1	A	597	TYR	CB-CG	5.57	1.64	1.51
1	B	414	GLU	CA-C	5.57	1.60	1.52
1	B	544	LEU	CA-C	5.57	1.60	1.52
1	A	594	VAL	CA-CB	-5.57	1.46	1.54
1	C	232	ALA	C-O	-5.57	1.16	1.23
1	A	69	MET	CB-CG	5.56	1.69	1.52
1	C	750	LEU	CG-CD1	-5.56	1.34	1.52
1	B	89	GLN	C-O	5.55	1.30	1.23
1	C	131	LYS	CA-C	5.54	1.59	1.52
1	A	37	THR	C-N	-5.54	1.28	1.33
1	C	770	LYS	CA-CB	5.54	1.62	1.53
1	A	726	GLN	CG-CD	5.54	1.65	1.52
1	C	166	ILE	C-O	-5.54	1.17	1.24
1	C	8	ARG	C-N	5.53	1.38	1.33
1	B	77	TYR	C-O	5.52	1.31	1.23
1	B	360	GLN	CA-C	5.52	1.60	1.52
1	C	269	GLU	C-O	5.52	1.30	1.23
1	C	761	ASP	C-N	-5.52	1.25	1.33
1	A	657	GLN	CA-C	5.51	1.60	1.52
1	A	1007	VAL	CA-CB	5.51	1.61	1.54
1	B	948	PHE	CA-C	5.51	1.60	1.52
1	A	900	SER	CA-C	5.50	1.60	1.52
1	B	879	ILE	CA-CB	-5.50	1.47	1.54
1	C	181	GLN	C-O	5.50	1.31	1.23
1	C	232	ALA	N-CA	5.50	1.53	1.46
1	B	63	GLN	N-CA	-5.50	1.39	1.46
1	C	120	GLN	CD-NE2	5.50	1.44	1.33
1	C	804	PHE	CA-C	5.50	1.59	1.52
1	C	825	MET	C-O	5.49	1.30	1.24
1	C	265	VAL	C-O	-5.48	1.17	1.24
1	C	452	VAL	CA-CB	5.48	1.61	1.54
1	A	221	GLY	N-CA	5.47	1.53	1.45
1	B	225	VAL	N-CA	5.47	1.52	1.46
1	C	60	THR	CA-CB	-5.47	1.45	1.53
1	C	328	ASP	CA-C	5.47	1.59	1.52
1	C	829	GLY	N-CA	5.47	1.53	1.45
1	A	123	GLN	C-O	-5.47	1.17	1.24
1	B	764	ASP	N-CA	5.47	1.52	1.46
1	C	231	ASN	CA-C	-5.47	1.45	1.52
1	A	70	ASN	C-N	5.46	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	128	SER	CA-C	-5.46	1.46	1.52
1	C	265	VAL	CA-CB	5.45	1.61	1.54
1	B	671	ILE	N-CA	5.45	1.53	1.46
1	C	61	VAL	CA-C	5.45	1.59	1.52
1	C	219	LEU	N-CA	-5.45	1.39	1.46
1	C	54	ALA	N-CA	5.44	1.53	1.46
1	C	580	ALA	CA-C	-5.44	1.45	1.52
1	C	788	ASP	CB-CG	5.44	1.65	1.52
1	A	762	PHE	CA-C	-5.44	1.46	1.52
1	B	784	ASP	CA-C	-5.44	1.45	1.52
1	A	726	GLN	CD-NE2	5.44	1.44	1.33
1	C	524	THR	CA-CB	5.44	1.62	1.53
1	C	793	ALA	CA-CB	-5.44	1.45	1.53
1	B	520	PHE	N-CA	-5.43	1.38	1.46
1	A	683	GLU	N-CA	-5.43	1.39	1.46
1	B	46	SER	CA-CB	-5.43	1.43	1.53
1	B	175	VAL	N-CA	5.43	1.53	1.46
1	A	91	THR	C-O	5.42	1.30	1.23
1	A	67	GLN	CD-NE2	5.42	1.44	1.33
1	C	47	ALA	C-O	5.42	1.30	1.23
1	A	121	GLU	CB-CG	5.41	1.68	1.52
1	A	281	PHE	N-CA	-5.41	1.40	1.46
1	C	993	THR	CA-C	5.41	1.60	1.52
1	C	51	GLY	C-O	-5.41	1.16	1.23
1	B	60	THR	C-O	5.41	1.32	1.23
1	A	752	ALA	CA-CB	-5.40	1.44	1.53
1	C	72	ILE	CA-CB	-5.40	1.47	1.54
1	C	893	GLU	CA-C	5.40	1.60	1.52
1	A	753	ALA	CA-C	-5.40	1.46	1.52
1	A	820	ASN	N-CA	-5.40	1.39	1.46
1	B	623	ASN	CA-C	-5.40	1.44	1.52
1	A	43	VAL	CA-C	5.39	1.59	1.52
1	A	608	SER	CA-C	-5.39	1.45	1.52
1	A	820	ASN	CG-ND2	5.39	1.44	1.33
1	B	365	THR	CA-C	5.38	1.59	1.52
1	C	263	ARG	CG-CD	5.38	1.68	1.52
1	A	88	VAL	C-O	5.38	1.30	1.24
1	A	133	SER	CA-CB	5.38	1.62	1.53
1	C	49	TYR	CA-C	5.37	1.58	1.52
1	C	78	MET	N-CA	5.37	1.52	1.45
1	B	768	VAL	N-CA	-5.37	1.39	1.46
1	A	113	LEU	CG-CD2	5.37	1.70	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	44	THR	CA-C	5.36	1.60	1.52
1	B	175	VAL	C-O	-5.36	1.17	1.24
1	C	325	TYR	CA-C	-5.36	1.46	1.52
1	C	725	PRO	CA-C	-5.36	1.44	1.52
1	B	574	THR	CA-CB	5.36	1.59	1.52
1	A	101	ASP	C-N	-5.35	1.27	1.34
1	C	777	ALA	CA-C	5.35	1.59	1.52
1	B	87	THR	CA-CB	-5.35	1.45	1.53
1	B	922	THR	CA-C	5.35	1.59	1.52
1	B	725	PRO	CA-C	5.34	1.57	1.52
1	A	44	THR	N-CA	5.34	1.52	1.45
1	A	355	MET	CA-C	5.34	1.59	1.52
1	A	879	ILE	CA-C	5.34	1.59	1.52
1	C	249	ILE	N-CA	-5.34	1.39	1.46
1	B	475	VAL	C-O	-5.33	1.17	1.24
1	B	760	ASN	N-CA	-5.33	1.39	1.46
1	C	658	ILE	CA-C	5.33	1.59	1.52
1	B	234	ILE	C-O	5.33	1.30	1.24
1	C	232	ALA	CA-CB	5.33	1.62	1.53
1	A	49	TYR	N-CA	5.32	1.53	1.46
1	C	960	LEU	N-CA	5.32	1.53	1.46
1	A	890	ALA	N-CA	5.32	1.53	1.46
1	C	9	PRO	CA-C	5.32	1.58	1.52
1	C	619	GLY	N-CA	5.32	1.53	1.45
1	A	605	ASN	CA-C	5.31	1.59	1.52
1	B	109	ASN	CB-CG	5.31	1.65	1.52
1	C	769	LYS	CA-C	-5.31	1.45	1.52
1	B	795	ASP	N-CA	5.31	1.52	1.46
1	B	214	VAL	CA-C	-5.31	1.45	1.52
1	C	86	GLY	C-O	5.31	1.31	1.24
1	C	237	GLN	N-CA	-5.31	1.39	1.46
1	C	485	ALA	CA-C	5.31	1.59	1.52
1	A	6	ILE	CA-C	-5.31	1.46	1.52
1	B	201	VAL	CA-C	-5.31	1.46	1.52
1	C	129	VAL	CA-C	5.30	1.59	1.52
1	C	343	THR	CA-C	5.30	1.60	1.52
1	C	126	GLY	N-CA	5.30	1.53	1.45
1	B	46	SER	N-CA	-5.30	1.39	1.46
1	C	132	SER	C-O	-5.30	1.17	1.24
1	C	931	LEU	CA-C	5.30	1.58	1.52
1	B	221	GLY	C-O	5.29	1.31	1.23
1	C	809	TRP	CA-C	5.29	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	788	ASP	CA-CB	5.29	1.62	1.54
1	C	798	MET	CA-C	5.29	1.59	1.53
1	C	176	GLN	CA-C	-5.29	1.46	1.53
1	A	6	ILE	CA-CB	5.29	1.61	1.54
1	C	897	ILE	C-N	5.29	1.40	1.34
1	C	154	ILE	C-O	5.28	1.29	1.24
1	A	214	VAL	N-CA	-5.28	1.40	1.46
1	C	767	ARG	CG-CD	5.28	1.68	1.52
1	A	46	SER	C-N	5.28	1.40	1.33
1	C	184	MET	CA-C	-5.28	1.45	1.52
1	C	1026	PHE	CB-CG	-5.28	1.38	1.50
1	B	644	VAL	CA-CB	5.27	1.61	1.54
1	C	154	ILE	CA-CB	5.27	1.60	1.54
1	A	586	ARG	CG-CD	5.26	1.68	1.52
1	B	274	ASN	N-CA	-5.26	1.39	1.46
1	A	801	PHE	CA-C	-5.26	1.45	1.52
1	B	37	THR	CA-CB	5.26	1.59	1.53
1	B	610	PHE	N-CA	5.26	1.53	1.46
1	C	219	LEU	CG-CD2	5.26	1.70	1.52
1	B	767	ARG	C-O	-5.26	1.18	1.24
1	C	887	CYS	N-CA	5.26	1.52	1.46
1	A	438	ILE	CA-CB	5.25	1.62	1.54
1	B	1001	ASN	C-O	-5.25	1.17	1.24
1	C	484	VAL	CA-C	-5.25	1.46	1.52
1	A	700	ASN	N-CA	-5.25	1.40	1.46
1	B	349	ILE	CA-CB	5.25	1.60	1.54
1	B	770	LYS	C-O	5.25	1.30	1.23
1	B	850	LYS	N-CA	5.25	1.52	1.46
1	A	63	GLN	CD-OE1	5.25	1.33	1.23
1	C	168	ARG	CD-NE	5.24	1.53	1.46
1	C	170	SER	CA-CB	-5.24	1.44	1.53
1	A	71	GLY	N-CA	5.24	1.52	1.45
1	B	588	GLN	CA-C	-5.24	1.46	1.52
1	A	808	ARG	CG-CD	5.23	1.68	1.52
1	C	738	ALA	N-CA	-5.23	1.40	1.46
1	A	810	GLU	CG-CD	5.23	1.65	1.52
1	C	757	SER	C-O	-5.23	1.18	1.23
1	C	76	MET	C-O	5.23	1.30	1.23
1	A	817	GLU	CG-CD	5.23	1.65	1.52
1	B	729	ILE	CA-CB	-5.22	1.47	1.54
1	A	62	THR	CA-C	5.22	1.59	1.52
1	B	222	THR	C-O	5.22	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	53	ASP	C-O	5.22	1.30	1.24
1	C	308	ALA	C-O	5.21	1.30	1.24
1	A	75	LEU	C-O	5.21	1.30	1.24
1	B	295	THR	CA-CB	-5.21	1.45	1.53
1	A	115	MET	C-O	5.21	1.30	1.24
1	B	481	SER	N-CA	5.21	1.52	1.46
1	A	63	GLN	CA-CB	-5.21	1.44	1.53
1	A	636	ASP	CA-C	-5.20	1.45	1.52
1	B	120	GLN	CA-CB	5.20	1.59	1.53
1	B	92	LEU	C-O	5.20	1.29	1.23
1	A	557	VAL	CA-CB	5.20	1.60	1.54
1	B	229	GLN	CA-C	-5.20	1.45	1.52
1	B	293	LEU	CA-C	-5.20	1.46	1.52
1	B	300	LEU	N-CA	-5.20	1.39	1.46
1	C	43	VAL	CA-C	5.20	1.59	1.52
1	C	810	GLU	CA-C	5.19	1.59	1.52
1	A	249	ILE	CA-C	5.19	1.59	1.52
1	B	121	GLU	C-O	5.18	1.30	1.24
1	C	95	GLU	CA-C	5.18	1.59	1.52
1	A	84	SER	CA-C	5.18	1.60	1.53
1	C	50	PRO	C-O	-5.18	1.17	1.24
1	C	66	GLU	CA-C	5.18	1.60	1.52
1	C	270	LEU	CG-CD2	5.18	1.69	1.52
1	A	119	PRO	CA-C	5.18	1.58	1.52
1	A	70	ASN	CB-CG	-5.18	1.39	1.52
1	B	1016	VAL	CA-CB	5.18	1.61	1.54
1	C	871	ASN	N-CA	5.17	1.52	1.46
1	C	380	PHE	N-CA	5.17	1.52	1.46
1	C	762	PHE	CA-CB	-5.17	1.45	1.53
1	A	66	GLU	CD-OE2	5.17	1.35	1.25
1	A	695	LEU	CA-C	5.17	1.59	1.52
1	A	822	LEU	CG-CD2	5.17	1.69	1.52
1	B	757	SER	CA-C	-5.16	1.46	1.52
1	C	719	ASN	CA-C	5.16	1.59	1.52
1	A	163	LYS	CB-CG	5.15	1.68	1.52
1	C	210	GLN	CA-CB	5.15	1.62	1.53
1	B	471	SER	C-O	-5.15	1.17	1.24
1	C	599	LEU	C-O	5.14	1.30	1.24
1	A	107	VAL	CA-CB	5.14	1.61	1.54
1	A	818	ARG	CA-CB	5.14	1.61	1.53
1	C	89	GLN	C-O	5.14	1.30	1.23
1	B	56	THR	N-CA	-5.14	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	52	ALA	CA-CB	-5.14	1.44	1.53
1	A	71	GLY	C-O	5.13	1.30	1.23
1	A	92	LEU	CG-CD1	-5.13	1.35	1.52
1	C	89	GLN	CD-OE1	5.13	1.33	1.23
1	C	770	LYS	CE-NZ	5.13	1.64	1.49
1	A	130	GLU	C-O	5.13	1.30	1.24
1	B	44	THR	C-O	5.13	1.30	1.24
1	B	330	THR	CA-C	5.13	1.59	1.52
1	A	598	TYR	CA-C	-5.13	1.45	1.52
1	C	605	ASN	CA-C	5.12	1.57	1.53
1	C	59	ASP	CG-OD2	5.12	1.35	1.25
1	A	75	LEU	CG-CD1	5.12	1.69	1.52
1	B	380	PHE	CA-C	5.12	1.59	1.52
1	C	170	SER	N-CA	5.11	1.52	1.46
1	A	463	THR	CA-CB	5.11	1.61	1.53
1	A	964	THR	CA-CB	5.11	1.62	1.53
1	B	131	LYS	CB-CG	5.11	1.67	1.52
1	C	701	GLN	N-CA	5.11	1.52	1.46
1	C	390	ILE	CA-CB	-5.11	1.47	1.54
1	C	186	ILE	N-CA	-5.10	1.40	1.46
1	C	118	LEU	CG-CD2	5.10	1.69	1.52
1	B	393	LEU	CA-C	-5.10	1.45	1.52
1	B	714	THR	CA-C	5.10	1.59	1.52
1	B	102	ILE	CG1-CD1	5.10	1.71	1.51
1	C	140	VAL	CA-CB	-5.10	1.47	1.53
1	B	231	ASN	N-CA	5.09	1.52	1.45
1	B	876	LEU	N-CA	-5.09	1.39	1.46
1	C	239	ARG	CB-CG	5.08	1.67	1.52
1	C	1004	GLY	N-CA	5.08	1.52	1.45
1	B	865	GLN	CA-C	-5.08	1.46	1.52
1	C	359	LEU	CA-C	5.08	1.57	1.52
1	A	69	MET	C-O	-5.08	1.17	1.24
1	C	40	PRO	C-N	-5.08	1.27	1.33
1	A	417	GLU	CA-C	-5.07	1.46	1.52
1	A	879	ILE	N-CA	5.07	1.52	1.46
1	C	818	ARG	CA-C	5.07	1.58	1.52
1	B	407	ASP	CA-CB	-5.07	1.45	1.53
1	C	296	GLY	N-CA	-5.06	1.38	1.45
1	C	200	PRO	CA-CB	-5.06	1.46	1.53
1	C	754	TRP	C-O	5.06	1.30	1.24
1	C	416	VAL	CA-C	5.06	1.58	1.52
1	A	801	PHE	CG-CD2	5.06	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	723	ASP	CA-CB	-5.05	1.45	1.53
1	A	89	GLN	CB-CG	5.05	1.67	1.52
1	A	748	THR	CA-C	-5.05	1.46	1.52
1	C	777	ALA	C-O	5.05	1.29	1.24
1	C	760	ASN	CA-C	5.05	1.59	1.52
1	B	3	ASN	CA-C	5.05	1.59	1.52
1	C	83	ASP	N-CA	5.04	1.52	1.46
1	A	57	VAL	CB-CG1	-5.04	1.35	1.52
1	C	157	TYR	CZ-OH	5.04	1.48	1.38
1	B	337	ILE	CA-CB	5.04	1.61	1.54
1	C	59	ASP	CG-OD1	5.04	1.34	1.25
1	C	45	ILE	N-CA	5.03	1.52	1.46
1	C	416	VAL	N-CA	-5.03	1.41	1.46
1	B	771	VAL	CB-CG1	-5.03	1.35	1.52
1	C	290	GLY	N-CA	5.03	1.51	1.45
1	C	640	GLU	N-CA	5.03	1.52	1.46
1	C	762	PHE	CB-CG	-5.03	1.39	1.50
1	C	238	THR	N-CA	5.03	1.52	1.45
1	C	529	ASP	N-CA	5.03	1.52	1.46
1	C	52	ALA	CA-C	5.02	1.59	1.52
1	C	294	ALA	CA-CB	-5.02	1.44	1.53
1	A	529	ASP	N-CA	5.02	1.52	1.46
1	B	110	LYS	CA-C	5.02	1.59	1.52
1	A	105	VAL	CB-CG2	5.01	1.69	1.52
1	A	1033	PHE	CA-C	5.01	1.58	1.53
1	B	238	THR	C-O	5.01	1.30	1.23
1	C	615	PHE	N-CA	5.01	1.53	1.46
1	C	789	TRP	C-O	5.01	1.30	1.24
1	A	550	VAL	CA-C	5.01	1.59	1.52
1	C	228	GLN	C-O	-5.01	1.18	1.24
1	C	235	ILE	CA-C	5.01	1.59	1.52
1	C	298	ASN	CB-CG	5.01	1.64	1.52
1	C	374	VAL	CA-C	-5.01	1.47	1.52
1	C	427	PRO	CA-C	5.00	1.59	1.52
1	C	772	TYR	N-CA	5.00	1.52	1.46

All (1261) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	818	ARG	NE-CZ-NH2	-25.73	96.04	119.20
1	A	114	ALA	N-CA-C	-25.55	77.12	112.13
1	C	773	VAL	N-CA-C	-17.56	83.53	108.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	788	ASP	N-CA-C	-16.21	92.64	113.72
1	B	1007	VAL	CB-CA-C	-16.17	94.69	110.70
1	A	399	VAL	N-CA-C	-16.07	96.89	112.96
1	A	91	THR	N-CA-C	15.49	132.08	110.24
1	A	90	ILE	CB-CG1-CD1	-15.14	82.00	113.80
1	A	65	ILE	CA-C-O	-14.96	102.09	120.78
1	A	114	ALA	O-C-N	14.95	141.35	121.92
1	C	40	PRO	CA-C-N	14.73	134.93	119.90
1	C	40	PRO	C-N-CA	14.73	134.93	119.90
1	B	30	LEU	CA-C-N	14.49	137.96	119.84
1	B	30	LEU	C-N-CA	14.49	137.96	119.84
1	C	724	THR	CA-C-N	14.41	137.85	119.84
1	C	724	THR	C-N-CA	14.41	137.85	119.84
1	A	92	LEU	CB-CG-CD1	-14.38	67.57	110.70
1	C	726	GLN	N-CA-C	-14.15	87.14	109.50
1	C	767	ARG	NE-CZ-NH1	-14.03	107.47	121.50
1	A	818	ARG	NH1-CZ-NH2	13.77	137.20	119.30
1	A	39	ALA	CA-C-N	-13.76	106.21	120.38
1	A	39	ALA	C-N-CA	-13.76	106.21	120.38
1	A	222	THR	CA-C-N	-13.75	106.22	120.38
1	A	222	THR	C-N-CA	-13.75	106.22	120.38
1	C	165	ALA	CA-C-N	-13.56	99.04	120.47
1	C	165	ALA	C-N-CA	-13.56	99.04	120.47
1	C	484	VAL	CB-CA-C	-13.50	94.42	111.70
1	C	161	ASN	N-CA-C	13.32	130.27	113.88
1	C	109	ASN	N-CA-C	-13.28	96.29	111.03
1	C	273	GLU	N-CA-C	-13.16	95.65	112.23
1	C	267	LYS	N-CA-C	-13.09	93.22	110.24
1	B	273	GLU	N-CA-C	-13.06	97.81	113.88
1	A	818	ARG	CA-CB-CG	-12.95	88.20	114.10
1	A	324	VAL	CB-CA-C	-12.82	97.48	111.59
1	B	207	ILE	N-CA-C	-12.80	97.88	110.30
1	C	170	SER	CA-CB-OG	-12.79	85.52	111.10
1	B	466	ILE	N-CA-C	-12.65	98.53	110.42
1	A	74	ASN	CA-C-N	-12.61	105.32	122.72
1	A	74	ASN	C-N-CA	-12.61	105.32	122.72
1	A	121	GLU	N-CA-C	-12.59	98.05	113.41
1	C	763	ILE	N-CA-C	12.50	126.25	107.99
1	A	65	ILE	O-C-N	12.45	138.13	122.57
1	B	564	LEU	CA-C-N	12.33	132.04	120.21
1	B	564	LEU	C-N-CA	12.33	132.04	120.21
1	A	43	VAL	N-CA-CB	-12.27	96.21	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	203	VAL	CB-CA-C	-12.25	96.20	111.88
1	C	249	ILE	N-CA-C	-12.19	92.63	109.21
1	C	767	ARG	CG-CD-NE	-12.19	85.17	112.00
1	C	762	PHE	CA-C-N	-12.18	107.31	122.90
1	C	762	PHE	C-N-CA	-12.18	107.31	122.90
1	C	202	ASP	N-CA-C	-12.14	98.03	111.14
1	A	817	GLU	CA-C-N	-12.02	105.01	122.44
1	A	817	GLU	C-N-CA	-12.02	105.01	122.44
1	B	666	PHE	N-CA-C	11.99	123.55	108.45
1	C	793	ALA	N-CA-C	-11.97	90.97	109.65
1	A	113	LEU	CA-C-O	11.91	131.62	118.52
1	B	822	LEU	N-CA-C	-11.83	96.53	110.13
1	C	302	THR	N-CA-C	-11.78	92.78	111.04
1	C	755	GLY	N-CA-C	-11.65	89.24	111.03
1	C	752	ALA	N-CA-C	-11.58	96.24	113.61
1	C	278	ILE	CB-CA-C	-11.54	92.37	111.29
1	A	78	MET	N-CA-C	11.53	127.31	108.52
1	C	64	VAL	CB-CA-C	-11.50	92.44	111.29
1	C	305	ALA	N-CA-C	11.18	123.16	110.97
1	C	769	LYS	N-CA-C	11.16	134.57	110.80
1	A	68	ASN	N-CA-C	-11.15	87.04	110.80
1	C	98	THR	CB-CA-C	-11.09	94.29	109.71
1	A	57	VAL	CB-CA-C	-11.08	98.81	111.55
1	A	117	LEU	CA-C-O	11.07	130.49	118.65
1	A	107	VAL	CB-CA-C	-11.03	93.20	111.29
1	A	60	THR	CB-CA-C	-10.93	87.15	109.99
1	B	68	ASN	N-CA-C	10.86	122.69	111.07
1	A	105	VAL	CB-CA-C	-10.84	93.51	111.29
1	A	115	MET	CA-C-N	-10.81	106.33	119.84
1	A	115	MET	C-N-CA	-10.81	106.33	119.84
1	A	291	ILE	CB-CA-C	-10.79	93.60	111.29
1	C	163	LYS	CD-CE-NZ	10.78	146.40	111.90
1	A	818	ARG	CB-CA-C	10.66	126.19	110.62
1	A	62	THR	N-CA-C	10.63	133.45	110.80
1	A	6	ILE	N-CA-C	-10.57	99.84	110.62
1	C	756	GLY	N-CA-C	-10.50	96.53	112.60
1	A	61	VAL	N-CA-C	10.50	131.18	109.34
1	C	580	ALA	N-CA-C	-10.48	94.97	110.48
1	A	821	GLY	CA-C-N	-10.48	96.24	121.80
1	A	821	GLY	C-N-CA	-10.48	96.24	121.80
1	C	385	ALA	N-CA-C	-10.43	99.46	111.03
1	C	159	ALA	CA-C-N	-10.42	101.64	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	159	ALA	C-N-CA	-10.42	101.64	121.54
1	A	735	LYS	N-CA-C	-10.38	100.05	111.36
1	A	400	LEU	N-CA-C	-10.36	100.65	113.18
1	C	822	LEU	CA-C-N	-10.34	107.51	120.23
1	C	822	LEU	C-N-CA	-10.34	107.51	120.23
1	A	382	VAL	CB-CA-C	-10.31	98.95	111.94
1	A	76	MET	CG-SD-CE	-10.29	78.26	100.90
1	B	32	VAL	N-CA-C	10.29	121.46	106.85
1	C	726	GLN	CA-C-O	-10.29	109.07	121.11
1	A	89	GLN	N-CA-C	10.28	124.33	110.35
1	A	86	GLY	CA-C-N	-10.27	105.19	122.64
1	A	86	GLY	C-N-CA	-10.27	105.19	122.64
1	C	140	VAL	CB-CA-C	-10.24	99.71	111.59
1	A	690	LEU	CA-C-N	-10.22	110.51	122.16
1	A	690	LEU	C-N-CA	-10.22	110.51	122.16
1	A	65	ILE	CB-CA-C	-10.12	94.69	111.29
1	A	66	GLU	CA-C-N	-10.10	102.25	121.54
1	A	66	GLU	C-N-CA	-10.10	102.25	121.54
1	C	751	GLY	CA-C-N	-10.10	106.54	122.29
1	C	751	GLY	C-N-CA	-10.10	106.54	122.29
1	C	154	ILE	N-CA-C	-10.10	101.55	110.74
1	C	168	ARG	O-C-N	-10.10	109.16	122.59
1	A	129	VAL	N-CA-C	-10.05	92.48	108.86
1	C	87	THR	N-CA-C	10.04	124.92	108.26
1	B	208	LYS	CA-C-N	-10.00	106.99	122.49
1	B	208	LYS	C-N-CA	-10.00	106.99	122.49
1	C	799	VAL	CB-CA-C	-9.94	101.14	110.88
1	C	762	PHE	N-CA-C	9.94	123.35	110.53
1	A	97	GLY	N-CA-C	-9.88	89.78	113.18
1	C	307	ARG	CA-C-N	-9.81	106.94	122.73
1	C	307	ARG	C-N-CA	-9.81	106.94	122.73
1	A	117	LEU	N-CA-C	-9.77	97.39	113.50
1	A	88	VAL	CA-CB-CG2	-9.76	93.81	110.40
1	A	696	THR	N-CA-C	-9.75	99.50	111.40
1	C	115	MET	CA-C-N	9.75	132.03	119.84
1	C	115	MET	C-N-CA	9.75	132.03	119.84
1	C	274	ASN	N-CA-C	9.74	124.00	107.93
1	A	637	ARG	CA-C-N	9.71	131.98	119.84
1	A	637	ARG	C-N-CA	9.71	131.98	119.84
1	A	495	THR	N-CA-C	9.65	122.02	110.44
1	A	72	ILE	CA-CB-CG1	9.64	126.79	110.40
1	B	163	LYS	N-CA-C	-9.61	101.56	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	559	LEU	CA-C-N	9.59	131.83	119.84
1	B	559	LEU	C-N-CA	9.59	131.83	119.84
1	C	247	GLY	CA-C-N	-9.58	106.74	122.65
1	C	247	GLY	C-N-CA	-9.58	106.74	122.65
1	C	133	SER	N-CA-C	-9.57	94.77	110.17
1	A	63	GLN	N-CA-C	9.56	131.17	110.80
1	C	236	ALA	CA-C-O	9.52	124.33	118.33
1	C	105	VAL	N-CA-C	9.52	129.14	109.34
1	A	814	PRO	CB-CA-C	-9.51	97.47	110.88
1	C	158	VAL	CA-C-O	-9.49	111.54	121.41
1	C	135	SER	N-CA-C	-9.46	95.09	109.94
1	A	65	ILE	N-CA-CB	9.45	126.83	111.23
1	A	838	GLY	N-CA-C	9.45	124.08	112.64
1	C	67	GLN	CA-C-N	-9.44	107.53	122.73
1	C	67	GLN	C-N-CA	-9.44	107.53	122.73
1	B	202	ASP	N-CA-C	-9.44	100.87	111.82
1	C	767	ARG	NH1-CZ-NH2	9.40	131.52	119.30
1	A	68	ASN	CB-CG-ND2	-9.40	102.31	116.40
1	C	172	VAL	N-CA-CB	9.39	121.29	110.49
1	A	624	THR	N-CA-C	9.38	123.80	108.52
1	C	206	ALA	O-C-N	9.37	132.10	122.08
1	B	141	GLY	N-CA-C	-9.37	97.78	112.58
1	C	567	GLU	N-CA-C	9.36	124.13	109.81
1	A	147	GLY	N-CA-C	-9.27	102.36	115.43
1	C	850	LYS	N-CA-C	-9.23	101.80	113.43
1	A	817	GLU	CA-C-O	9.20	130.74	120.43
1	C	236	ALA	N-CA-C	9.19	117.57	108.75
1	B	63	GLN	N-CA-C	-9.18	100.84	111.03
1	C	765	ARG	O-C-N	9.17	134.78	122.59
1	A	72	ILE	CB-CG1-CD1	-9.16	94.56	113.80
1	A	817	GLU	N-CA-C	9.16	123.53	108.96
1	B	637	ARG	CA-C-N	9.13	131.25	119.84
1	B	637	ARG	C-N-CA	9.13	131.25	119.84
1	C	587	THR	N-CA-C	-9.13	100.90	111.03
1	C	612	VAL	N-CA-C	9.11	122.94	107.18
1	C	261	LEU	N-CA-C	-9.10	95.16	109.72
1	A	64	VAL	CA-CB-CG1	9.09	125.85	110.40
1	C	557	VAL	CB-CA-C	-9.07	101.12	111.55
1	B	948	PHE	N-CA-C	9.06	122.33	111.82
1	C	157	TYR	N-CA-CB	9.04	123.56	109.82
1	A	91	THR	CA-C-N	9.03	137.47	122.76
1	A	91	THR	C-N-CA	9.03	137.47	122.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	35	TYR	N-CA-C	-8.98	99.53	110.31
1	C	536	ARG	N-CA-C	8.97	129.91	110.80
1	A	816	LEU	O-C-N	8.95	134.35	123.26
1	B	153	ASP	N-CA-C	-8.95	104.42	114.62
1	C	726	GLN	CA-C-N	8.94	134.31	122.42
1	C	726	GLN	C-N-CA	8.94	134.31	122.42
1	A	110	LYS	CA-CB-CG	8.92	131.95	114.10
1	C	767	ARG	CB-CG-CD	8.92	131.82	111.30
1	C	769	LYS	CG-CD-CE	-8.91	90.80	111.30
1	A	813	SER	N-CA-C	8.85	121.22	110.07
1	C	753	ALA	N-CA-C	-8.82	103.03	113.88
1	A	87	THR	N-CA-C	8.79	124.32	110.17
1	A	851	LEU	CA-C-N	8.77	130.80	119.84
1	A	851	LEU	C-N-CA	8.77	130.80	119.84
1	B	609	VAL	N-CA-C	8.76	119.29	106.85
1	B	542	LEU	N-CA-C	-8.74	103.16	113.21
1	C	745	ASP	N-CA-C	-8.74	100.94	111.69
1	B	223	PRO	CA-C-N	8.71	130.73	119.84
1	B	223	PRO	C-N-CA	8.71	130.73	119.84
1	A	683	GLU	CA-CB-CG	-8.71	96.67	114.10
1	B	636	ASP	N-CA-C	-8.67	101.70	112.88
1	A	804	PHE	N-CA-C	8.65	123.36	112.03
1	B	46	SER	CA-CB-OG	-8.65	93.81	111.10
1	A	822	LEU	CA-C-N	8.61	130.60	119.84
1	A	822	LEU	C-N-CA	8.61	130.60	119.84
1	A	70	ASN	CA-C-O	-8.60	108.21	120.51
1	B	284	GLN	CA-C-N	-8.58	109.70	120.51
1	B	284	GLN	C-N-CA	-8.58	109.70	120.51
1	B	379	THR	CB-CA-C	-8.57	97.67	110.95
1	B	32	VAL	CB-CA-C	-8.56	100.40	111.53
1	A	276	ASP	N-CA-C	8.54	120.69	110.44
1	A	700	ASN	N-CA-C	8.52	120.57	111.28
1	A	99	ASP	N-CA-C	8.48	122.20	108.63
1	A	176	GLN	N-CA-C	8.48	123.75	108.48
1	C	45	ILE	N-CA-C	-8.47	97.44	109.63
1	A	110	LYS	CD-CE-NZ	-8.46	84.81	111.90
1	C	397	GLY	N-CA-C	-8.46	104.17	114.66
1	C	63	GLN	N-CA-CB	8.46	124.79	110.49
1	A	107	VAL	N-CA-C	-8.45	91.77	109.34
1	B	67	GLN	CA-C-N	8.44	131.41	120.44
1	B	67	GLN	C-N-CA	8.44	131.41	120.44
1	B	105	VAL	CA-C-N	-8.43	108.98	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	105	VAL	C-N-CA	-8.43	108.98	120.44
1	A	417	GLU	CB-CA-C	-8.40	97.50	111.02
1	A	93	THR	CB-CA-C	-8.40	96.80	109.90
1	A	517	ASN	N-CA-C	8.38	120.41	111.28
1	C	95	GLU	CA-C-N	-8.38	111.44	123.00
1	C	95	GLU	C-N-CA	-8.38	111.44	123.00
1	C	130	GLU	N-CA-C	8.37	121.44	108.96
1	C	719	ASN	N-CA-C	8.37	123.72	107.98
1	C	164	ASP	N-CA-C	8.32	128.53	110.80
1	B	102	ILE	N-CA-C	-8.32	92.03	109.34
1	A	685	ILE	N-CA-C	8.32	126.64	109.34
1	C	765	ARG	CG-CD-NE	-8.31	93.71	112.00
1	C	762	PHE	O-C-N	-8.31	112.42	122.65
1	A	978	THR	CB-CA-C	-8.31	97.84	110.88
1	A	696	THR	CB-CA-C	8.28	124.70	110.79
1	A	775	SER	CB-CA-C	-8.27	93.96	110.42
1	C	129	VAL	CB-CA-C	-8.27	99.88	111.21
1	A	68	ASN	CB-CA-C	-8.25	94.01	110.42
1	A	106	GLN	O-C-N	8.24	133.56	122.59
1	C	260	VAL	CB-CA-C	-8.24	97.68	110.95
1	A	72	ILE	CA-C-N	8.22	137.24	121.54
1	A	72	ILE	C-N-CA	8.22	137.24	121.54
1	B	96	SER	N-CA-C	8.21	121.52	110.35
1	A	106	GLN	CB-CA-C	-8.20	94.09	110.42
1	B	758	TYR	N-CA-C	-8.20	97.24	110.20
1	B	185	ARG	NE-CZ-NH1	-8.19	113.31	121.50
1	C	751	GLY	N-CA-C	-8.19	93.77	113.18
1	C	166	ILE	CB-CA-C	-8.18	99.48	112.16
1	C	759	VAL	CA-C-N	-8.17	105.93	121.54
1	C	759	VAL	C-N-CA	-8.17	105.93	121.54
1	C	300	LEU	CA-CB-CG	-8.17	87.71	116.30
1	A	69	MET	N-CA-CB	8.16	124.28	110.49
1	A	271	GLY	N-CA-C	-8.16	99.83	111.42
1	A	821	GLY	N-CA-C	-8.15	103.57	115.30
1	A	92	LEU	CA-CB-CG	8.14	144.79	116.30
1	A	70	ASN	CA-CB-CG	-8.11	104.50	112.60
1	A	264	ASP	N-CA-C	-8.10	103.53	113.50
1	C	944	LEU	N-CA-C	-8.10	103.52	113.41
1	A	89	GLN	O-C-N	8.08	132.75	122.81
1	A	92	LEU	CD1-CG-CD2	-8.06	93.06	110.80
1	B	289	LEU	CB-CA-C	-8.06	99.59	110.79
1	B	27	ILE	N-CA-C	-8.05	103.02	110.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	904	VAL	CB-CA-C	-8.04	101.68	111.97
1	C	167	SER	N-CA-CB	8.04	122.39	110.33
1	A	116	PRO	CA-C-O	-8.02	106.01	120.60
1	C	822	LEU	CB-CA-C	8.00	121.16	109.48
1	C	164	ASP	CB-CG-OD2	-7.99	100.02	118.40
1	A	416	VAL	N-CA-C	7.98	122.19	111.17
1	A	599	LEU	CA-CB-CG	-7.97	88.39	116.30
1	A	67	GLN	N-CA-C	7.97	127.78	110.80
1	B	736	ALA	N-CA-C	7.96	119.95	111.28
1	A	864	TYR	N-CA-C	-7.96	100.74	111.96
1	A	60	THR	O-C-N	7.95	133.43	122.46
1	C	770	LYS	CA-CB-CG	7.94	129.98	114.10
1	A	189	ASN	CA-C-N	7.92	128.66	119.47
1	A	189	ASN	C-N-CA	7.92	128.66	119.47
1	A	108	GLN	CA-C-N	-7.91	106.43	121.54
1	A	108	GLN	C-N-CA	-7.91	106.43	121.54
1	B	53	ASP	CA-C-N	-7.91	110.72	121.71
1	B	53	ASP	C-N-CA	-7.91	110.72	121.71
1	C	1022	VAL	CB-CA-C	-7.90	103.65	114.00
1	C	238	THR	CB-CA-C	-7.90	95.57	112.63
1	B	858	ASP	N-CA-C	-7.89	96.75	107.88
1	C	14	VAL	N-CA-C	7.89	118.00	110.42
1	A	37	THR	CA-C-N	-7.88	113.22	122.36
1	A	37	THR	C-N-CA	-7.88	113.22	122.36
1	A	91	THR	CB-CA-C	-7.87	97.03	109.70
1	A	81	ASN	O-C-N	7.85	133.40	123.19
1	B	106	GLN	N-CA-CB	7.85	121.46	110.07
1	C	68	ASN	N-CA-C	-7.81	103.81	112.72
1	B	620	ARG	N-CA-C	-7.81	96.50	109.46
1	B	289	LEU	CA-CB-CG	7.80	143.59	116.30
1	A	65	ILE	N-CA-C	-7.78	93.15	109.34
1	A	656	SER	N-CA-C	-7.78	97.70	109.60
1	B	622	GLN	N-CA-C	-7.78	101.20	111.24
1	C	199	THR	CA-C-N	-7.77	110.46	119.32
1	C	199	THR	C-N-CA	-7.77	110.46	119.32
1	B	46	SER	N-CA-C	7.76	121.88	108.76
1	B	331	PRO	N-CA-C	-7.75	96.50	112.47
1	B	477	ALA	N-CA-C	-7.74	103.68	113.43
1	C	839	GLU	N-CA-C	-7.74	102.76	112.90
1	C	873	ALA	CA-C-N	-7.73	111.54	120.12
1	C	873	ALA	C-N-CA	-7.73	111.54	120.12
1	A	702	LEU	CA-CB-CG	-7.71	89.31	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	32	VAL	CB-CA-C	-7.71	98.64	111.29
1	A	46	SER	CA-C-O	-7.70	112.26	120.80
1	C	167	SER	CA-C-N	-7.69	106.85	121.54
1	C	167	SER	C-N-CA	-7.69	106.85	121.54
1	A	45	ILE	CA-C-O	7.68	127.06	120.22
1	B	925	VAL	N-CA-C	-7.67	102.31	110.36
1	B	200	PRO	N-CA-C	-7.67	104.09	113.98
1	C	1009	GLY	N-CA-C	7.64	123.44	113.27
1	C	237	GLN	CB-CA-C	7.63	121.29	109.84
1	B	514	GLY	N-CA-C	7.63	123.24	113.24
1	B	291	ILE	CB-CA-C	-7.63	98.78	111.29
1	C	770	LYS	CG-CD-CE	7.62	128.82	111.30
1	A	823	PRO	N-CD-CG	-7.60	91.79	103.20
1	A	72	ILE	CB-CA-C	-7.58	101.17	111.33
1	B	115	MET	CA-C-N	-7.58	110.37	119.84
1	B	115	MET	C-N-CA	-7.58	110.37	119.84
1	B	26	ALA	N-CA-C	-7.57	104.18	113.19
1	B	827	ILE	N-CA-C	7.57	118.76	108.17
1	C	617	PHE	N-CA-C	-7.56	104.06	113.28
1	A	642	ASN	N-CA-C	7.55	122.17	113.19
1	A	594	VAL	CB-CA-C	-7.55	98.91	111.29
1	C	38	ILE	CA-C-N	-7.55	112.45	122.56
1	C	38	ILE	C-N-CA	-7.55	112.45	122.56
1	A	695	LEU	CB-CG-CD1	-7.54	88.09	110.70
1	A	410	ILE	N-CA-CB	7.54	118.83	110.62
1	A	61	VAL	O-C-N	7.53	131.99	122.57
1	B	770	LYS	N-CA-C	7.52	121.50	110.59
1	A	386	PHE	N-CA-C	-7.51	102.09	112.30
1	A	134	SER	CA-C-N	7.51	135.88	121.54
1	A	134	SER	C-N-CA	7.51	135.88	121.54
1	C	240	LEU	CA-C-N	-7.48	108.50	120.70
1	C	240	LEU	C-N-CA	-7.48	108.50	120.70
1	B	146	ASP	N-CA-C	7.47	122.35	113.23
1	B	738	ALA	N-CA-C	-7.47	105.08	114.56
1	C	990	VAL	N-CA-C	7.46	121.47	111.17
1	A	104	GLN	CA-C-N	-7.46	108.54	121.97
1	A	104	GLN	C-N-CA	-7.46	108.54	121.97
1	A	273	GLU	CA-C-N	-7.46	110.86	122.87
1	A	273	GLU	C-N-CA	-7.46	110.86	122.87
1	C	762	PHE	N-CA-CB	-7.45	99.79	110.44
1	A	54	ALA	CA-C-O	-7.44	109.87	120.51
1	B	298	ASN	N-CA-C	7.42	119.84	109.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	91	THR	CA-CB-CG2	-7.41	97.91	110.50
1	B	844	MET	N-CA-C	-7.41	102.22	111.11
1	A	62	THR	CA-C-N	-7.40	107.41	121.54
1	A	62	THR	C-N-CA	-7.40	107.41	121.54
1	A	573	MET	N-CA-C	7.40	120.41	109.24
1	B	32	VAL	CA-C-N	-7.40	110.62	122.53
1	B	32	VAL	C-N-CA	-7.40	110.62	122.53
1	B	756	GLY	CA-C-N	-7.39	111.20	122.81
1	B	756	GLY	C-N-CA	-7.39	111.20	122.81
1	B	903	LEU	N-CA-C	-7.39	104.35	113.15
1	C	194	ASN	N-CA-CB	7.39	121.10	110.16
1	C	32	VAL	CA-C-N	-7.39	109.44	122.07
1	C	32	VAL	C-N-CA	-7.39	109.44	122.07
1	C	781	MET	CA-C-N	-7.38	113.33	123.96
1	C	781	MET	C-N-CA	-7.38	113.33	123.96
1	C	775	SER	N-CA-C	7.37	121.02	109.96
1	C	217	GLY	N-CA-C	-7.37	95.72	113.18
1	B	617	PHE	N-CA-C	-7.36	102.96	112.23
1	C	267	LYS	CA-C-O	-7.36	113.50	121.44
1	A	684	LEU	N-CA-C	7.35	126.45	110.80
1	A	820	ASN	CB-CA-C	-7.33	95.83	110.42
1	C	239	ARG	N-CA-C	-7.33	97.78	109.59
1	B	93	THR	CB-CA-C	-7.32	98.87	110.14
1	C	90	ILE	N-CA-C	-7.31	96.89	107.78
1	A	771	VAL	CB-CA-C	-7.31	99.66	110.33
1	B	35	TYR	CA-C-N	7.30	128.97	119.84
1	B	35	TYR	C-N-CA	7.30	128.97	119.84
1	C	780	ARG	N-CA-C	7.30	123.57	112.54
1	C	207	ILE	CG1-CB-CG2	-7.30	88.79	110.70
1	C	629	VAL	CB-CA-C	-7.29	101.22	111.21
1	A	360	GLN	N-CA-C	-7.29	99.85	110.64
1	C	771	VAL	CB-CA-C	-7.29	98.77	110.28
1	C	182	TYR	N-CA-C	7.28	120.25	110.35
1	C	193	LEU	N-CA-C	-7.27	103.67	112.54
1	A	21	LEU	CA-CB-CG	-7.26	90.89	116.30
1	C	115	MET	CA-CB-CG	-7.25	99.61	114.10
1	A	590	VAL	N-CA-C	-7.24	103.28	110.30
1	C	268	ILE	CG1-CB-CG2	-7.23	89.01	110.70
1	C	172	VAL	CB-CA-C	-7.22	100.42	111.69
1	B	232	ALA	N-CA-C	-7.22	95.43	110.80
1	A	75	LEU	N-CA-C	7.21	120.99	109.24
1	A	139	VAL	N-CA-C	7.21	116.69	106.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	102	ILE	CB-CA-C	-7.20	99.49	111.29
1	B	626	ILE	N-CA-CB	7.20	120.59	112.32
1	A	77	TYR	N-CA-C	7.18	121.15	110.52
1	A	818	ARG	CG-CD-NE	-7.18	96.20	112.00
1	A	802	SER	N-CA-C	-7.15	103.48	111.71
1	A	365	THR	N-CA-C	-7.15	104.53	113.18
1	B	32	VAL	N-CA-CB	-7.13	103.06	111.83
1	A	274	ASN	N-CA-C	-7.13	98.61	109.95
1	A	728	LYS	N-CA-C	7.12	120.48	108.02
1	A	479	ALA	N-CA-C	-7.12	104.47	113.01
1	B	709	HIS	CA-C-N	7.11	128.73	119.84
1	B	709	HIS	C-N-CA	7.11	128.73	119.84
1	C	733	GLN	N-CA-C	7.11	119.64	111.11
1	A	818	ARG	N-CA-C	7.10	120.08	107.80
1	C	772	TYR	CA-C-O	7.09	129.11	120.60
1	C	1030	ARG	N-CA-C	7.09	120.82	111.75
1	A	70	ASN	N-CA-CB	7.07	122.44	110.49
1	A	798	MET	CA-C-O	-7.07	113.35	120.98
1	A	722	GLU	CB-CA-C	7.06	121.73	109.65
1	C	726	GLN	O-C-N	7.06	131.92	123.24
1	A	690	LEU	N-CA-C	-7.04	100.13	110.42
1	B	338	HIS	N-CA-C	-7.04	106.59	114.62
1	A	410	ILE	N-CA-C	-7.04	103.47	110.30
1	C	202	ASP	O-C-N	7.03	129.68	122.09
1	A	629	VAL	CB-CA-C	-7.02	101.37	111.34
1	C	139	VAL	CA-C-N	-7.02	114.44	122.93
1	C	139	VAL	C-N-CA	-7.02	114.44	122.93
1	A	270	LEU	CA-C-N	-7.02	115.92	122.17
1	A	270	LEU	C-N-CA	-7.02	115.92	122.17
1	C	761	ASP	CA-C-N	-7.01	106.45	121.45
1	C	761	ASP	C-N-CA	-7.01	106.45	121.45
1	A	108	GLN	CG-CD-NE2	-7.01	105.89	116.40
1	C	759	VAL	N-CA-C	7.00	123.90	109.34
1	C	219	LEU	N-CA-C	7.00	118.91	111.28
1	C	268	ILE	CB-CG1-CD1	-6.99	99.13	113.80
1	B	111	LEU	CB-CG-CD1	-6.98	89.75	110.70
1	C	42	ALA	N-CA-C	-6.96	96.15	108.13
1	C	60	THR	N-CA-C	6.96	122.76	112.94
1	A	46	SER	O-C-N	6.96	131.33	123.19
1	A	317	PHE	CA-C-N	6.95	128.53	119.84
1	A	317	PHE	C-N-CA	6.95	128.53	119.84
1	B	358	PHE	N-CA-C	-6.94	103.49	113.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	990	VAL	CB-CA-C	6.94	122.67	111.29
1	B	943	ILE	N-CA-C	6.94	120.75	111.17
1	A	78	MET	CB-CA-C	-6.92	98.83	110.19
1	C	243	THR	CA-C-N	6.91	129.77	120.65
1	C	243	THR	C-N-CA	6.91	129.77	120.65
1	A	721	LEU	N-CA-C	6.91	119.93	109.23
1	A	691	GLY	N-CA-C	6.90	124.30	112.51
1	C	161	ASN	CA-C-O	6.90	127.03	119.24
1	A	163	LYS	CA-C-N	-6.89	109.54	121.66
1	A	163	LYS	C-N-CA	-6.89	109.54	121.66
1	C	1022	VAL	O-C-N	6.88	124.82	120.42
1	A	659	LYS	CA-C-N	6.88	132.69	123.20
1	A	659	LYS	C-N-CA	6.88	132.69	123.20
1	B	447	MET	N-CA-C	-6.87	103.57	112.23
1	A	647	ILE	CB-CA-C	-6.87	102.74	112.22
1	A	80	SER	CA-CB-OG	6.87	124.83	111.10
1	C	308	ALA	CA-C-O	6.86	127.95	119.78
1	A	314	GLU	CA-C-N	-6.85	112.51	120.12
1	A	314	GLU	C-N-CA	-6.85	112.51	120.12
1	C	90	ILE	CB-CA-C	-6.85	100.80	110.12
1	C	102	ILE	CB-CA-C	-6.85	100.06	111.29
1	B	49	TYR	CA-C-N	6.84	128.39	119.84
1	B	49	TYR	C-N-CA	6.84	128.39	119.84
1	C	739	LEU	N-CA-C	-6.84	103.23	112.26
1	C	104	GLN	CB-CG-CD	-6.82	101.01	112.60
1	A	358	PHE	N-CA-C	6.82	120.82	112.23
1	B	489	THR	CA-C-N	6.81	128.36	119.84
1	B	489	THR	C-N-CA	6.81	128.36	119.84
1	B	724	THR	CB-CA-C	6.81	119.58	109.22
1	B	220	GLY	N-CA-C	-6.81	97.05	113.18
1	C	813	SER	CA-CB-OG	-6.81	97.48	111.10
1	A	858	ASP	N-CA-C	-6.80	98.38	108.79
1	C	874	PRO	N-CA-C	-6.80	106.04	114.20
1	A	821	GLY	O-C-N	-6.80	113.31	122.35
1	C	696	THR	N-CA-C	-6.79	96.33	110.80
1	B	767	ARG	NE-CZ-NH1	-6.79	114.71	121.50
1	A	93	THR	N-CA-C	6.79	120.22	110.10
1	A	849	SER	N-CA-C	-6.79	103.94	111.82
1	A	53	ASP	N-CA-C	-6.79	96.34	110.80
1	B	207	ILE	O-C-N	6.78	128.92	121.94
1	C	763	ILE	CB-CG1-CD1	-6.78	99.57	113.80
1	A	99	ASP	CB-CG-OD1	-6.77	102.82	118.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	462	SER	N-CA-C	-6.77	103.59	110.97
1	B	89	GLN	CA-C-N	-6.76	110.88	120.75
1	B	89	GLN	C-N-CA	-6.76	110.88	120.75
1	A	603	LYS	N-CA-C	6.76	118.64	111.28
1	C	182	TYR	CA-C-O	6.75	128.71	121.55
1	B	38	ILE	N-CA-C	6.75	117.79	112.12
1	C	948	PHE	N-CA-C	6.75	119.47	111.71
1	C	730	ASP	N-CA-C	6.74	119.42	108.63
1	B	121	GLU	N-CA-C	-6.74	105.62	114.31
1	B	121	GLU	O-C-N	6.73	129.74	122.34
1	A	713	LEU	CB-CA-C	6.72	123.79	110.42
1	B	762	PHE	N-CA-C	6.71	119.53	108.99
1	A	220	GLY	CA-C-N	6.71	134.56	121.41
1	A	220	GLY	C-N-CA	6.71	134.56	121.41
1	A	518	ARG	N-CA-C	-6.70	103.13	112.45
1	C	158	VAL	CA-C-N	6.70	134.34	121.54
1	C	158	VAL	C-N-CA	6.70	134.34	121.54
1	C	370	ILE	N-CA-C	6.70	116.85	110.42
1	C	764	ASP	CB-CG-OD2	-6.70	102.98	118.40
1	A	763	ILE	N-CA-C	6.70	117.49	108.11
1	B	24	GLY	N-CA-C	-6.70	106.36	114.66
1	A	55	LYS	CG-CD-CE	6.69	126.69	111.30
1	A	818	ARG	CD-NE-CZ	-6.69	115.03	124.40
1	A	64	VAL	CB-CA-C	-6.69	100.32	111.29
1	A	112	GLN	O-C-N	-6.69	113.70	122.59
1	A	559	LEU	O-C-N	6.68	127.22	121.20
1	A	628	PHE	CB-CA-C	-6.67	97.14	110.42
1	C	85	THR	N-CA-C	-6.67	105.90	112.97
1	A	678	THR	N-CA-C	-6.67	105.11	113.18
1	C	786	ILE	N-CA-CB	6.66	121.00	110.54
1	A	105	VAL	N-CA-C	6.66	123.19	109.34
1	A	110	LYS	N-CA-C	-6.66	96.62	110.80
1	A	1003	VAL	CB-CA-C	6.66	120.22	111.70
1	C	167	SER	N-CA-C	-6.65	104.18	112.90
1	A	102	ILE	N-CA-C	6.65	119.36	111.05
1	A	143	ILE	N-CA-C	6.64	118.63	109.46
1	A	107	VAL	CA-CB-CG1	6.64	121.68	110.40
1	B	424	GLY	N-CA-C	6.63	128.90	113.18
1	C	790	TYR	N-CA-C	-6.63	99.31	109.65
1	C	761	ASP	CA-C-O	6.62	127.35	120.40
1	C	317	PHE	N-CA-CB	6.62	118.91	109.78
1	C	88	VAL	CB-CA-C	-6.61	100.77	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	858	ASP	CA-C-O	-6.61	114.16	121.23
1	C	241	THR	CB-CA-C	-6.61	100.20	110.37
1	A	822	LEU	N-CA-CB	6.60	122.12	110.37
1	B	61	VAL	N-CA-C	-6.60	105.89	111.56
1	C	122	VAL	CG1-CB-CG2	-6.60	96.29	110.80
1	A	91	THR	O-C-N	6.59	131.01	122.97
1	A	525	HIS	N-CA-C	-6.59	102.73	111.24
1	C	74	ASN	CA-C-N	-6.58	113.63	122.72
1	C	74	ASN	C-N-CA	-6.58	113.63	122.72
1	B	160	ALA	N-CA-C	-6.58	103.75	113.61
1	A	92	LEU	CB-CA-C	-6.55	102.78	111.82
1	C	660	ASP	N-CA-C	6.55	120.13	111.75
1	A	202	ASP	N-CA-C	-6.53	104.00	112.23
1	C	685	ILE	N-CA-C	6.53	118.44	108.71
1	C	626	ILE	N-CA-C	6.53	118.11	108.65
1	B	887	CYS	CB-CA-C	-6.52	100.38	110.81
1	C	166	ILE	CG1-CB-CG2	6.51	130.24	110.70
1	C	879	ILE	N-CA-C	-6.51	104.21	113.07
1	A	225	VAL	CB-CA-C	-6.51	101.80	110.98
1	B	824	SER	N-CA-C	6.51	119.21	108.99
1	C	139	VAL	CB-CA-C	-6.51	100.83	110.33
1	C	454	VAL	N-CA-C	6.51	122.94	108.88
1	A	574	THR	CB-CA-C	6.50	122.14	109.33
1	B	588	GLN	N-CA-C	-6.50	104.28	111.36
1	C	43	VAL	CB-CA-C	-6.50	102.00	111.68
1	B	593	GLU	N-CA-C	-6.50	103.09	111.02
1	C	47	ALA	CA-C-N	-6.50	111.19	122.37
1	C	47	ALA	C-N-CA	-6.50	111.19	122.37
1	A	571	VAL	N-CA-C	6.50	119.45	108.86
1	A	230	LEU	N-CA-C	6.49	119.30	108.20
1	C	81	ASN	N-CA-C	-6.49	100.00	110.32
1	C	163	LYS	CA-C-N	-6.49	109.15	121.54
1	C	163	LYS	C-N-CA	-6.49	109.15	121.54
1	B	629	VAL	N-CA-C	6.49	117.85	107.73
1	A	602	GLU	N-CA-C	6.48	119.88	109.83
1	C	1027	VAL	CA-C-N	6.48	128.80	120.70
1	C	1027	VAL	C-N-CA	6.48	128.80	120.70
1	A	723	ASP	CA-CB-CG	-6.48	106.12	112.60
1	C	789	TRP	CB-CA-C	6.48	120.68	110.19
1	B	57	VAL	CB-CA-C	-6.47	103.56	112.04
1	C	184	MET	O-C-N	6.46	130.96	122.95
1	A	724	THR	O-C-N	6.46	128.75	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	244	GLU	CB-CG-CD	6.46	123.58	112.60
1	C	674	LEU	CA-CB-CG	6.44	138.84	116.30
1	A	419	VAL	N-CA-C	6.44	119.09	111.05
1	C	238	THR	N-CA-CB	6.44	121.72	110.07
1	B	766	GLY	CA-C-N	-6.43	113.72	122.86
1	B	766	GLY	C-N-CA	-6.43	113.72	122.86
1	B	311	ALA	N-CA-C	-6.43	105.59	113.50
1	A	59	ASP	CA-CB-CG	6.43	119.03	112.60
1	B	215	ALA	N-CA-C	-6.42	102.24	110.53
1	A	74	ASN	N-CA-CB	-6.42	99.64	110.49
1	C	767	ARG	O-C-N	6.42	131.79	123.06
1	C	219	LEU	O-C-N	-6.41	115.32	122.12
1	C	714	THR	CB-CA-C	6.40	124.15	110.07
1	A	113	LEU	N-CA-CB	-6.39	98.86	110.88
1	A	275	TYR	CA-C-N	-6.39	111.83	123.34
1	A	275	TYR	C-N-CA	-6.39	111.83	123.34
1	B	929	VAL	N-CA-CB	6.39	119.73	110.52
1	A	629	VAL	N-CA-C	6.39	117.90	109.21
1	A	823	PRO	CA-N-CD	6.39	120.95	112.00
1	A	690	LEU	CB-CA-C	6.39	118.59	109.71
1	A	724	THR	CA-CB-CG2	-6.38	99.65	110.50
1	C	172	VAL	O-C-N	6.38	129.49	122.66
1	B	535	LEU	N-CA-C	6.37	119.46	111.24
1	A	45	ILE	O-C-N	6.37	128.70	122.97
1	A	88	VAL	CB-CA-C	-6.36	100.86	111.29
1	A	684	LEU	CA-C-O	-6.36	111.41	120.51
1	C	291	ILE	N-CA-CB	6.36	121.72	111.23
1	C	729	ILE	CB-CG1-CD1	-6.36	100.44	113.80
1	A	177	LEU	N-CA-C	6.35	120.24	110.20
1	C	611	ALA	CA-C-N	-6.35	113.31	122.84
1	C	611	ALA	C-N-CA	-6.35	113.31	122.84
1	C	160	ALA	N-CA-C	6.34	124.31	110.80
1	A	117	LEU	CB-CG-CD2	6.34	129.73	110.70
1	B	201	VAL	CB-CA-C	-6.34	103.85	111.97
1	B	731	ILE	CB-CA-C	-6.34	104.35	111.45
1	B	857	TYR	N-CA-C	6.34	116.82	107.88
1	C	315	PRO	O-C-N	-6.33	114.10	122.64
1	B	452	VAL	N-CA-C	6.32	119.91	111.44
1	B	405	LEU	CA-C-N	6.32	128.52	120.56
1	B	405	LEU	C-N-CA	6.32	128.52	120.56
1	A	712	MET	CA-C-N	6.31	133.59	121.54
1	A	712	MET	C-N-CA	6.31	133.59	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	756	GLY	CA-C-O	-6.31	113.66	122.36
1	B	621	GLY	N-CA-C	6.30	120.33	111.19
1	C	425	LEU	CA-C-N	-6.30	113.89	120.38
1	C	425	LEU	C-N-CA	-6.30	113.89	120.38
1	A	43	VAL	CA-C-O	6.29	128.03	120.66
1	A	853	THR	N-CA-CB	6.29	119.22	109.97
1	B	222	THR	CA-C-N	6.29	126.86	120.38
1	B	222	THR	C-N-CA	6.29	126.86	120.38
1	C	159	ALA	N-CA-C	-6.28	97.42	110.80
1	A	101	ASP	CA-C-N	-6.28	110.55	120.47
1	A	101	ASP	C-N-CA	-6.28	110.55	120.47
1	A	753	ALA	O-C-N	6.27	128.53	122.07
1	C	764	ASP	CB-CA-C	-6.27	99.86	109.89
1	A	109	ASN	CA-CB-CG	6.27	118.87	112.60
1	B	452	VAL	CB-CA-C	-6.26	101.95	112.16
1	C	69	MET	CG-SD-CE	-6.26	87.13	100.90
1	B	466	ILE	N-CA-CB	6.25	117.72	110.65
1	B	21	LEU	CA-CB-CG	6.25	138.19	116.30
1	C	239	ARG	NE-CZ-NH2	6.25	124.83	119.20
1	C	786	ILE	CG1-CB-CG2	-6.25	91.94	110.70
1	A	59	ASP	N-CA-C	-6.24	105.82	113.50
1	C	865	GLN	N-CA-C	6.24	120.46	112.34
1	A	827	ILE	N-CA-C	-6.24	99.21	108.45
1	C	931	LEU	N-CA-C	-6.24	105.57	113.43
1	B	426	PRO	N-CA-C	6.23	118.30	110.70
1	A	68	ASN	OD1-CG-ND2	6.23	128.83	122.60
1	C	768	VAL	O-C-N	6.23	130.35	122.57
1	C	330	THR	N-CA-C	6.22	123.56	109.81
1	A	733	GLN	N-CA-C	-6.21	104.20	110.97
1	A	173	GLY	CA-C-N	6.21	133.39	121.54
1	A	173	GLY	C-N-CA	6.21	133.39	121.54
1	A	126	GLY	CA-C-N	-6.20	114.37	122.37
1	A	126	GLY	C-N-CA	-6.20	114.37	122.37
1	C	767	ARG	CD-NE-CZ	-6.19	115.73	124.40
1	C	158	VAL	O-C-N	6.19	128.64	121.96
1	C	131	LYS	CA-C-N	-6.18	109.73	121.54
1	C	131	LYS	C-N-CA	-6.18	109.73	121.54
1	A	281	PHE	CA-C-N	-6.18	113.75	122.34
1	A	281	PHE	C-N-CA	-6.18	113.75	122.34
1	A	297	ALA	CA-C-N	-6.18	113.48	122.44
1	A	297	ALA	C-N-CA	-6.18	113.48	122.44
1	A	158	VAL	CB-CA-C	-6.17	103.95	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1020	PHE	CA-C-N	-6.17	110.02	120.58
1	B	1020	PHE	C-N-CA	-6.17	110.02	120.58
1	A	99	ASP	CA-CB-CG	-6.17	106.43	112.60
1	B	406	VAL	N-CA-C	6.17	116.34	110.42
1	A	258	SER	N-CA-C	6.16	119.68	109.46
1	A	658	ILE	N-CA-C	6.16	116.57	107.15
1	A	66	GLU	CG-CD-OE1	6.15	132.55	118.40
1	A	66	GLU	CG-CD-OE2	-6.15	104.26	118.40
1	A	763	ILE	CB-CA-C	-6.14	101.54	110.63
1	C	87	THR	CA-CB-CG2	6.14	120.94	110.50
1	C	233	SER	N-CA-C	6.14	123.87	110.80
1	C	837	THR	N-CA-C	6.12	123.84	110.80
1	C	814	PRO	CB-CA-C	-6.12	102.37	110.27
1	B	472	ILE	CB-CA-C	-6.12	101.26	111.29
1	B	520	PHE	N-CA-C	-6.11	106.46	114.04
1	C	775	SER	O-C-N	-6.11	115.41	122.93
1	A	116	PRO	N-CA-CB	6.11	109.66	103.25
1	B	143	ILE	CB-CA-C	-6.11	99.49	110.48
1	B	327	TYR	N-CA-C	6.10	123.80	110.80
1	A	77	TYR	CA-CB-CG	-6.10	102.92	113.90
1	C	825	MET	CG-SD-CE	-6.10	87.48	100.90
1	A	102	ILE	CG1-CB-CG2	-6.10	92.41	110.70
1	A	79	SER	N-CA-C	6.09	120.16	109.80
1	A	801	PHE	CA-CB-CG	6.09	119.89	113.80
1	B	929	VAL	CB-CA-C	-6.09	104.06	112.04
1	C	63	GLN	CA-C-O	-6.09	111.80	120.51
1	A	382	VAL	N-CA-C	-6.09	105.13	111.58
1	C	157	TYR	CA-C-N	-6.09	112.80	120.77
1	C	157	TYR	C-N-CA	-6.09	112.80	120.77
1	B	99	ASP	CA-C-N	-6.07	112.63	120.65
1	B	99	ASP	C-N-CA	-6.07	112.63	120.65
1	C	818	ARG	NE-CZ-NH1	-6.07	115.43	121.50
1	A	817	GLU	N-CA-CB	6.07	120.37	110.17
1	A	324	VAL	N-CA-C	6.06	116.66	110.05
1	C	758	TYR	CB-CA-C	-6.06	101.17	110.26
1	A	131	LYS	CA-C-O	-6.05	113.78	120.38
1	A	583	THR	CB-CA-C	-6.05	98.38	110.42
1	C	772	TYR	CA-C-N	-6.05	115.21	123.14
1	C	772	TYR	C-N-CA	-6.05	115.21	123.14
1	B	30	LEU	CA-CB-CG	6.05	137.47	116.30
1	B	865	GLN	CB-CA-C	-6.04	101.58	110.95
1	C	222	THR	N-CA-C	6.04	123.16	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	142	VAL	N-CA-C	-6.04	96.79	109.34
1	C	66	GLU	CB-CG-CD	-6.03	102.35	112.60
1	A	846	GLN	N-CA-C	-6.03	103.36	112.04
1	B	753	ALA	N-CA-C	-6.03	103.87	112.13
1	A	274	ASN	CA-C-N	-6.03	113.09	122.67
1	A	274	ASN	C-N-CA	-6.03	113.09	122.67
1	B	390	ILE	CA-C-N	-6.03	112.12	123.27
1	B	390	ILE	C-N-CA	-6.03	112.12	123.27
1	C	219	LEU	CA-C-N	-6.02	109.61	121.41
1	C	219	LEU	C-N-CA	-6.02	109.61	121.41
1	C	82	SER	N-CA-C	6.02	118.27	108.76
1	A	792	ARG	N-CA-C	-6.01	102.02	110.50
1	A	369	THR	N-CA-C	6.00	120.22	113.01
1	B	48	SER	CB-CA-C	-6.00	98.47	110.42
1	A	718	PRO	N-CA-C	-6.00	100.77	110.55
1	B	923	ASN	N-CA-CB	-6.00	100.36	110.49
1	B	439	GLN	N-CA-C	-5.99	105.82	113.01
1	B	375	VAL	CB-CA-C	-5.99	104.22	112.24
1	C	161	ASN	CA-C-N	-5.98	110.11	121.54
1	C	161	ASN	C-N-CA	-5.98	110.11	121.54
1	C	167	SER	CA-C-O	-5.98	112.60	119.60
1	B	145	THR	N-CA-C	-5.98	102.22	110.35
1	A	66	GLU	CB-CA-C	-5.97	98.53	110.42
1	B	295	THR	N-CA-C	5.97	118.37	109.59
1	A	686	ASP	N-CA-C	5.97	118.68	111.40
1	A	113	LEU	CD1-CG-CD2	5.97	123.93	110.80
1	A	668	LEU	CA-C-N	5.97	127.36	120.98
1	A	668	LEU	C-N-CA	5.97	127.36	120.98
1	A	870	GLY	N-CA-C	-5.97	100.94	111.80
1	C	274	ASN	CA-C-N	5.96	131.41	122.23
1	C	274	ASN	C-N-CA	5.96	131.41	122.23
1	A	51	GLY	CA-C-N	-5.96	110.15	121.54
1	A	51	GLY	C-N-CA	-5.96	110.15	121.54
1	A	46	SER	CA-CB-OG	-5.96	99.18	111.10
1	B	670	ALA	N-CA-C	-5.96	97.59	108.02
1	A	540	ARG	CA-C-N	5.96	130.81	120.68
1	A	540	ARG	C-N-CA	5.96	130.81	120.68
1	C	443	VAL	N-CA-C	5.96	116.61	110.36
1	A	750	LEU	CB-CA-C	-5.95	101.80	110.96
1	C	815	ARG	CB-CA-C	-5.95	99.83	109.89
1	C	887	CYS	N-CA-CB	5.95	118.69	110.07
1	A	547	ILE	CB-CA-C	-5.95	104.36	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	82	SER	N-CA-C	5.95	118.42	108.02
1	C	729	ILE	CG1-CB-CG2	-5.94	92.88	110.70
1	B	545	TYR	N-CA-C	-5.94	99.04	110.56
1	C	525	HIS	CA-C-N	5.94	128.23	120.28
1	C	525	HIS	C-N-CA	5.94	128.23	120.28
1	B	235	ILE	N-CA-C	5.93	121.68	109.34
1	B	563	PHE	CB-CA-C	5.93	119.52	109.55
1	A	818	ARG	CA-C-O	5.93	127.72	120.25
1	A	871	ASN	N-CA-C	5.92	119.41	110.64
1	A	687	GLN	N-CA-CB	5.92	120.50	110.49
1	C	344	LEU	N-CA-C	-5.92	103.60	111.24
1	C	154	ILE	CB-CA-C	5.92	119.75	111.94
1	A	342	LYS	N-CA-C	-5.92	104.74	111.07
1	B	135	SER	CA-CB-OG	-5.92	99.27	111.10
1	C	234	ILE	CB-CA-C	-5.91	102.38	110.77
1	B	72	ILE	CA-C-N	5.91	129.23	120.90
1	B	72	ILE	C-N-CA	5.91	129.23	120.90
1	C	210	GLN	CA-CB-CG	5.91	125.91	114.10
1	C	764	ASP	O-C-N	5.90	130.19	122.93
1	A	480	LEU	N-CA-C	-5.90	104.20	111.40
1	C	698	ALA	N-CA-C	-5.90	104.44	111.69
1	A	111	LEU	CB-CG-CD2	-5.89	93.01	110.70
1	B	182	TYR	N-CA-C	5.89	119.03	110.42
1	C	722	GLU	CA-C-N	-5.89	110.91	120.87
1	C	722	GLU	C-N-CA	-5.89	110.91	120.87
1	C	80	SER	N-CA-C	-5.88	96.16	107.57
1	A	819	TYR	CA-C-N	-5.88	110.32	121.54
1	A	819	TYR	C-N-CA	-5.88	110.32	121.54
1	A	62	THR	CA-CB-CG2	-5.88	100.51	110.50
1	C	100	ALA	CA-C-O	-5.88	113.62	120.20
1	C	207	ILE	CA-CB-CG2	-5.88	100.51	110.50
1	A	40	PRO	N-CA-C	-5.87	103.53	110.70
1	B	367	ILE	N-CA-C	5.87	121.56	108.88
1	B	712	MET	CB-CG-SD	5.87	130.31	112.70
1	A	116	PRO	CA-N-CD	5.87	120.22	112.00
1	B	78	MET	N-CA-C	-5.87	100.23	109.50
1	B	217	GLY	N-CA-C	-5.87	103.96	112.17
1	C	901	VAL	CB-CA-C	-5.87	101.67	111.29
1	B	410	ILE	CB-CA-C	5.86	120.89	111.29
1	A	521	GLU	CA-C-N	5.85	131.49	122.42
1	A	521	GLU	C-N-CA	5.85	131.49	122.42
1	C	46	SER	CA-C-N	-5.85	113.00	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	46	SER	C-N-CA	-5.85	113.00	122.36
1	C	174	ASP	CA-C-N	-5.85	115.51	123.12
1	C	174	ASP	C-N-CA	-5.85	115.51	123.12
1	C	763	ILE	N-CA-CB	-5.85	104.37	111.21
1	C	99	ASP	N-CA-C	5.84	119.21	108.58
1	A	48	SER	CB-CA-C	-5.84	100.59	109.99
1	A	879	ILE	N-CA-C	5.84	119.23	111.17
1	B	991	ILE	CB-CA-C	-5.84	104.43	111.85
1	C	766	GLY	CA-C-N	-5.84	113.24	122.76
1	C	766	GLY	C-N-CA	-5.84	113.24	122.76
1	A	253	VAL	N-CA-C	5.84	117.05	107.24
1	B	379	THR	N-CA-CB	5.83	118.44	109.98
1	B	629	VAL	CB-CA-C	-5.83	103.84	111.25
1	A	219	LEU	CB-CA-C	5.83	116.68	109.16
1	C	193	LEU	CA-CB-CG	5.83	136.70	116.30
1	A	890	ALA	N-CA-C	5.83	120.12	113.19
1	A	841	MET	N-CA-C	-5.82	103.92	111.02
1	B	52	ALA	N-CA-C	5.82	123.19	110.80
1	B	254	ASN	N-CA-C	5.81	118.25	110.35
1	C	42	ALA	CA-C-N	5.81	132.95	122.43
1	C	42	ALA	C-N-CA	5.81	132.95	122.43
1	C	181	GLN	N-CA-C	-5.81	102.71	110.55
1	A	424	GLY	N-CA-C	5.80	120.84	111.38
1	A	748	THR	N-CA-C	5.80	123.16	110.80
1	C	90	ILE	O-C-N	5.80	129.00	123.03
1	A	520	PHE	N-CA-C	-5.80	104.39	112.45
1	C	681	ASP	CA-C-N	-5.80	114.24	122.41
1	C	681	ASP	C-N-CA	-5.80	114.24	122.41
1	B	113	LEU	N-CA-C	5.79	123.13	110.80
1	B	663	VAL	N-CA-C	-5.79	99.72	108.17
1	A	208	LYS	CA-C-N	-5.79	111.29	122.06
1	A	208	LYS	C-N-CA	-5.79	111.29	122.06
1	A	811	TYR	CA-CB-CG	-5.79	103.48	113.90
1	C	132	SER	CA-CB-OG	-5.79	99.53	111.10
1	C	74	ASN	CB-CA-C	-5.78	102.43	111.39
1	A	45	ILE	CB-CA-C	-5.78	103.82	110.41
1	C	483	LEU	N-CA-C	-5.78	105.32	112.72
1	C	296	GLY	CA-C-N	-5.78	110.20	121.06
1	C	296	GLY	C-N-CA	-5.78	110.20	121.06
1	A	781	MET	CB-CG-SD	-5.78	95.37	112.70
1	A	372	VAL	N-CA-C	-5.77	96.41	108.88
1	A	73	ASP	OD1-CG-OD2	-5.76	109.07	122.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	835	LYS	N-CA-C	5.76	118.99	110.46
1	B	49	TYR	CA-CB-CG	-5.76	103.53	113.90
1	A	827	ILE	CB-CA-C	-5.76	100.74	110.71
1	C	265	VAL	CB-CA-C	5.76	120.73	111.29
1	C	816	LEU	CA-C-N	-5.76	110.45	122.03
1	C	816	LEU	C-N-CA	-5.76	110.45	122.03
1	C	707	ALA	N-CA-C	5.76	117.64	111.36
1	A	196	PHE	N-CA-C	5.75	120.29	113.16
1	C	241	THR	N-CA-C	5.75	122.67	114.16
1	C	53	ASP	O-C-N	5.74	130.23	122.59
1	A	75	LEU	CD1-CG-CD2	5.74	123.42	110.80
1	A	629	VAL	CA-C-N	5.74	130.86	122.77
1	A	629	VAL	C-N-CA	5.74	130.86	122.77
1	A	873	ALA	CA-C-N	5.74	127.01	119.84
1	A	873	ALA	C-N-CA	5.74	127.01	119.84
1	B	896	SER	CB-CA-C	-5.73	99.01	110.42
1	C	765	ARG	NE-CZ-NH1	-5.73	115.77	121.50
1	C	184	MET	N-CA-CB	5.73	118.45	109.69
1	A	112	GLN	N-CA-C	5.73	123.00	110.80
1	A	106	GLN	CA-C-O	-5.72	112.33	120.51
1	A	111	LEU	CA-CB-CG	-5.72	96.27	116.30
1	A	312	LYS	CA-C-O	-5.72	114.97	120.92
1	C	429	GLU	N-CA-C	-5.72	104.96	111.14
1	A	203	VAL	N-CA-C	-5.71	104.94	110.42
1	A	711	ASP	N-CA-C	-5.71	104.97	111.14
1	B	734	GLU	N-CA-C	5.71	118.27	111.71
1	C	960	LEU	CA-C-N	5.71	130.65	122.72
1	C	960	LEU	C-N-CA	5.71	130.65	122.72
1	C	960	LEU	CA-CB-CG	5.70	136.26	116.30
1	A	41	PRO	CA-C-O	5.70	127.26	121.11
1	A	429	GLU	CA-C-N	-5.70	112.87	120.79
1	A	429	GLU	C-N-CA	-5.70	112.87	120.79
1	C	181	GLN	CB-CG-CD	-5.70	102.92	112.60
1	A	59	ASP	CA-C-O	5.69	125.40	119.14
1	A	104	GLN	CA-CB-CG	-5.69	102.72	114.10
1	B	72	ILE	N-CA-C	5.69	121.17	109.34
1	B	460	GLY	N-CA-C	5.69	126.66	113.18
1	C	234	ILE	N-CA-CB	-5.69	104.25	111.64
1	B	351	VAL	CB-CA-C	5.69	120.61	111.29
1	A	321	LEU	CA-CB-CG	5.68	136.19	116.30
1	C	236	ALA	CB-CA-C	-5.68	108.18	116.53
1	B	626	ILE	CB-CA-C	-5.68	102.62	110.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	102	ILE	CA-C-O	-5.68	113.68	120.78
1	C	753	ALA	O-C-N	5.68	129.97	122.36
1	A	256	ASP	N-CA-C	-5.67	105.27	113.21
1	B	98	THR	CA-C-N	-5.67	114.07	122.41
1	B	98	THR	C-N-CA	-5.67	114.07	122.41
1	B	179	GLY	N-CA-C	-5.67	103.65	111.76
1	A	399	VAL	CB-CA-C	5.67	116.05	111.06
1	A	116	PRO	N-CA-C	5.67	124.14	112.47
1	B	7	ASP	N-CA-C	-5.67	100.16	109.40
1	A	45	ILE	CG1-CB-CG2	5.66	127.69	110.70
1	B	223	PRO	CB-CA-C	-5.66	104.02	110.92
1	B	674	LEU	N-CA-C	5.66	122.86	110.80
1	A	108	GLN	O-C-N	-5.64	115.09	122.59
1	B	31	PRO	CB-CA-C	-5.64	102.25	111.56
1	A	335	ILE	N-CA-C	-5.64	105.35	110.82
1	A	493	CYS	N-CA-C	5.63	117.42	111.28
1	B	227	GLY	CA-C-N	5.63	132.30	121.54
1	B	227	GLY	C-N-CA	5.63	132.30	121.54
1	B	978	THR	N-CA-C	-5.63	104.78	111.03
1	A	81	ASN	CA-C-N	5.63	131.29	123.07
1	A	81	ASN	C-N-CA	5.63	131.29	123.07
1	A	399	VAL	CA-C-O	5.62	124.01	119.29
1	A	826	GLU	CA-C-N	5.62	130.80	122.71
1	A	826	GLU	C-N-CA	5.62	130.80	122.71
1	B	624	THR	N-CA-C	5.62	117.59	108.26
1	C	118	LEU	CB-CG-CD1	-5.61	93.87	110.70
1	C	176	GLN	N-CA-C	-5.61	103.12	110.53
1	C	145	THR	N-CA-C	5.61	117.08	110.97
1	C	98	THR	N-CA-C	5.60	118.59	110.42
1	A	633	ASP	N-CA-C	5.60	118.59	110.42
1	B	672	VAL	CB-CA-C	5.59	120.47	111.29
1	C	764	ASP	CA-CB-CG	-5.59	107.01	112.60
1	A	118	LEU	CA-C-N	-5.59	112.70	120.25
1	A	118	LEU	C-N-CA	-5.59	112.70	120.25
1	C	260	VAL	CG1-CB-CG2	5.59	123.10	110.80
1	B	198	LEU	N-CA-C	5.59	118.58	108.69
1	C	178	PHE	CA-C-O	5.59	128.80	122.37
1	B	534	ILE	N-CA-C	-5.59	104.91	111.00
1	A	65	ILE	CG1-CB-CG2	-5.58	93.95	110.70
1	A	768	VAL	CA-CB-CG2	-5.58	100.91	110.40
1	B	815	ARG	CB-CA-C	-5.58	104.13	111.82
1	A	125	GLN	N-CA-CB	5.57	119.04	110.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	185	ARG	NE-CZ-NH2	5.57	124.22	119.20
1	B	714	THR	N-CA-C	5.57	121.97	113.61
1	B	399	VAL	N-CA-C	5.57	116.60	111.81
1	A	746	ILE	CB-CA-C	-5.57	102.16	111.29
1	A	89	GLN	CA-C-N	5.56	131.99	121.97
1	A	89	GLN	C-N-CA	5.56	131.99	121.97
1	C	62	THR	N-CA-CB	-5.56	101.09	110.49
1	C	772	TYR	OH-CZ-CE2	-5.56	103.23	119.90
1	A	820	ASN	CA-C-O	-5.55	112.57	120.51
1	B	495	THR	CB-CA-C	-5.55	99.37	110.42
1	A	27	ILE	N-CA-CB	5.55	116.67	110.51
1	A	255	GLN	CA-C-N	5.55	128.67	119.35
1	A	255	GLN	C-N-CA	5.55	128.67	119.35
1	A	662	MET	CB-CG-SD	-5.55	96.06	112.70
1	A	219	LEU	N-CA-C	-5.54	107.76	114.75
1	A	259	ARG	N-CA-C	5.54	117.71	107.73
1	C	721	LEU	N-CA-C	-5.54	106.40	112.72
1	A	75	LEU	CB-CA-C	5.54	118.89	109.75
1	A	728	LYS	CB-CG-CD	-5.54	98.56	111.30
1	A	824	SER	CA-CB-OG	-5.54	100.02	111.10
1	C	73	ASP	CA-C-N	-5.54	114.76	122.74
1	C	73	ASP	C-N-CA	-5.54	114.76	122.74
1	C	791	VAL	CB-CA-C	-5.54	102.21	111.29
1	C	45	ILE	CB-CA-C	-5.54	102.30	111.32
1	B	651	ALA	N-CA-C	5.53	118.03	111.33
1	C	237	GLN	N-CA-CB	-5.53	100.91	109.48
1	B	614	GLY	N-CA-C	-5.53	107.67	113.58
1	A	813	SER	CB-CA-C	5.53	116.66	108.87
1	C	72	ILE	CB-CA-C	-5.53	102.26	110.33
1	B	162	MET	N-CA-C	5.52	122.56	110.80
1	A	918	PHE	N-CA-C	-5.52	107.20	114.04
1	C	772	TYR	O-C-N	-5.52	116.65	123.33
1	A	101	ASP	O-C-N	-5.52	116.18	122.08
1	A	997	SER	N-CA-C	5.52	116.45	108.34
1	C	359	LEU	N-CA-C	5.51	119.50	112.12
1	A	159	ALA	N-CA-C	-5.51	106.40	113.23
1	B	822	LEU	CA-C-N	5.51	126.72	119.84
1	B	822	LEU	C-N-CA	5.51	126.72	119.84
1	C	235	ILE	CA-C-N	-5.50	117.24	123.13
1	C	235	ILE	C-N-CA	-5.50	117.24	123.13
1	A	213	GLN	CB-CA-C	-5.50	102.21	110.24
1	C	181	GLN	CG-CD-NE2	-5.50	108.15	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	244	GLU	CA-CB-CG	-5.49	103.11	114.10
1	C	788	ASP	CA-C-O	5.49	125.09	119.05
1	A	911	GLY	N-CA-C	-5.49	106.13	112.50
1	C	741	VAL	N-CA-CB	5.49	117.78	110.26
1	A	597	TYR	CA-CB-CG	5.49	123.78	113.90
1	B	867	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	B	566	ASP	N-CA-C	5.49	119.76	112.30
1	A	93	THR	CA-CB-CG2	-5.48	101.18	110.50
1	B	113	LEU	CA-C-N	-5.48	113.92	122.42
1	B	113	LEU	C-N-CA	-5.48	113.92	122.42
1	A	75	LEU	CB-CG-CD1	5.48	127.14	110.70
1	B	354	VAL	N-CA-C	-5.48	97.95	109.34
1	A	357	LEU	CA-C-N	-5.47	111.38	120.68
1	A	357	LEU	C-N-CA	-5.47	111.38	120.68
1	C	57	VAL	N-CA-C	-5.47	104.90	112.50
1	B	113	LEU	N-CA-CB	-5.47	101.25	110.49
1	B	613	ASN	N-CA-C	5.47	118.46	109.76
1	A	273	GLU	O-C-N	-5.47	116.19	122.09
1	A	283	GLY	N-CA-C	-5.47	108.10	115.21
1	A	69	MET	CG-SD-CE	5.46	112.91	100.90
1	C	527	TYR	N-CA-C	-5.45	104.98	111.03
1	C	395	MET	N-CA-C	5.45	117.67	111.02
1	B	772	TYR	CA-CB-CG	5.45	123.71	113.90
1	A	576	VAL	CB-CA-C	5.44	119.00	111.38
1	A	426	PRO	N-CA-C	5.44	117.33	110.70
1	B	35	TYR	N-CA-CB	-5.44	103.52	109.72
1	A	76	MET	CB-CG-SD	-5.43	96.40	112.70
1	A	842	GLU	CB-CG-CD	-5.43	103.36	112.60
1	B	84	SER	N-CA-C	5.43	117.20	111.28
1	B	248	LYS	N-CA-C	5.43	119.12	110.70
1	C	278	ILE	N-CA-C	-5.43	98.04	109.34
1	C	181	GLN	CA-C-O	-5.43	115.40	121.81
1	C	851	LEU	CA-C-N	5.43	126.62	119.84
1	C	851	LEU	C-N-CA	5.43	126.62	119.84
1	A	951	ASP	N-CA-C	5.42	120.32	111.37
1	C	1022	VAL	N-CA-CB	5.42	114.68	110.45
1	C	211	ASN	CB-CA-C	-5.42	102.12	111.23
1	B	827	ILE	CB-CA-C	-5.42	102.75	110.83
1	C	831	ALA	N-CA-C	5.42	119.41	112.26
1	C	63	GLN	CB-CA-C	-5.42	99.64	110.42
1	A	51	GLY	O-C-N	-5.41	115.66	122.70
1	A	59	ASP	CA-C-N	-5.41	111.67	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	59	ASP	C-N-CA	-5.41	111.67	121.14
1	C	807	SER	N-CA-C	5.41	118.06	109.24
1	A	829	GLY	O-C-N	5.41	129.03	123.29
1	B	199	THR	CA-C-N	-5.41	114.52	119.82
1	B	199	THR	C-N-CA	-5.41	114.52	119.82
1	C	466	ILE	CB-CA-C	-5.41	104.75	112.22
1	C	222	THR	CA-C-N	5.41	125.95	120.38
1	C	222	THR	C-N-CA	5.41	125.95	120.38
1	A	783	PRO	N-CA-C	-5.41	106.35	113.65
1	A	66	GLU	N-CA-CB	5.40	119.61	110.49
1	C	161	ASN	CA-CB-CG	-5.39	107.21	112.60
1	C	774	MET	CA-C-N	-5.39	113.40	120.95
1	C	774	MET	C-N-CA	-5.39	113.40	120.95
1	A	291	ILE	CA-C-O	-5.39	114.04	120.78
1	A	674	LEU	CA-CB-CG	5.38	135.15	116.30
1	C	709	HIS	CB-CA-C	-5.38	103.80	110.96
1	C	813	SER	CA-C-N	5.38	127.40	120.89
1	C	813	SER	C-N-CA	5.38	127.40	120.89
1	C	45	ILE	CA-CB-CG2	5.38	119.65	110.50
1	C	170	SER	N-CA-C	5.38	122.25	110.80
1	B	513	PHE	CA-C-N	5.37	126.85	120.14
1	B	513	PHE	C-N-CA	5.37	126.85	120.14
1	A	6	ILE	O-C-N	5.37	127.08	121.87
1	B	272	GLY	N-CA-C	-5.37	100.46	113.18
1	B	494	ALA	N-CA-C	5.37	122.23	110.80
1	A	792	ARG	CA-C-N	-5.36	113.81	122.82
1	A	792	ARG	C-N-CA	-5.36	113.81	122.82
1	B	47	ALA	N-CA-C	-5.36	102.26	110.14
1	C	39	ALA	CA-C-N	5.36	125.90	120.38
1	C	39	ALA	C-N-CA	5.36	125.90	120.38
1	B	819	TYR	N-CA-C	-5.36	99.95	109.06
1	B	472	ILE	CA-C-N	-5.36	113.47	120.44
1	B	472	ILE	C-N-CA	-5.36	113.47	120.44
1	C	113	LEU	N-CA-C	-5.35	106.13	113.30
1	C	744	ASN	N-CA-C	5.35	122.20	110.80
1	B	593	GLU	CB-CG-CD	5.35	121.69	112.60
1	A	70	ASN	CB-CG-ND2	5.35	124.42	116.40
1	A	103	ALA	O-C-N	5.35	129.70	122.59
1	B	237	GLN	N-CA-C	-5.35	103.29	110.24
1	A	823	PRO	N-CA-C	-5.34	101.46	112.47
1	C	615	PHE	N-CA-C	5.34	118.03	107.98
1	C	288	GLY	CA-C-N	-5.34	113.56	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	288	GLY	C-N-CA	-5.34	113.56	122.64
1	A	757	SER	N-CA-C	-5.34	101.00	108.96
1	A	53	ASP	CB-CA-C	-5.34	99.80	110.42
1	B	300	LEU	CB-CG-CD2	-5.34	94.69	110.70
1	C	725	PRO	CB-CA-C	-5.34	102.75	111.56
1	C	212	ALA	N-CA-C	5.33	116.52	108.46
1	B	159	ALA	N-CA-C	-5.33	106.90	113.41
1	B	233	SER	CA-C-O	-5.33	115.15	121.60
1	A	643	LYS	N-CA-C	5.33	117.62	109.95
1	B	243	THR	N-CA-C	-5.33	107.33	113.88
1	C	840	ALA	N-CA-C	-5.33	105.12	111.03
1	A	626	ILE	CB-CA-C	-5.32	102.17	110.69
1	C	168	ARG	CD-NE-CZ	5.32	131.85	124.40
1	C	60	THR	N-CA-CB	-5.32	102.20	110.98
1	B	239	ARG	N-CA-C	5.32	118.60	110.20
1	A	434	SER	CA-C-N	5.31	129.63	121.19
1	A	434	SER	C-N-CA	5.31	129.63	121.19
1	B	394	THR	N-CA-CB	5.31	118.11	110.20
1	C	112	GLN	N-CA-C	5.30	122.10	110.80
1	C	765	ARG	CA-C-N	5.30	130.00	120.77
1	C	765	ARG	C-N-CA	5.30	130.00	120.77
1	C	779	TYR	O-C-N	5.30	128.99	122.20
1	C	781	MET	N-CA-C	5.30	119.88	113.41
1	B	120	GLN	N-CA-C	-5.30	105.99	113.20
1	C	30	LEU	CA-CB-CG	5.30	134.85	116.30
1	A	101	ASP	N-CA-CB	5.29	117.87	109.82
1	A	860	THR	OG1-CB-CG2	-5.29	98.71	109.30
1	C	218	GLN	N-CA-C	5.29	116.89	108.79
1	A	823	PRO	O-C-N	-5.29	115.50	122.64
1	A	222	THR	N-CA-CB	-5.29	100.96	110.37
1	A	556	PHE	O-C-N	5.29	128.19	122.11
1	A	106	GLN	CA-CB-CG	5.28	124.67	114.10
1	B	947	GLU	CA-C-N	5.28	128.34	120.31
1	B	947	GLU	C-N-CA	5.28	128.34	120.31
1	A	27	ILE	CB-CA-C	-5.28	105.12	111.88
1	C	456	MET	CB-CA-C	5.28	117.52	109.34
1	B	259	ARG	CA-C-N	-5.27	115.72	123.10
1	B	259	ARG	C-N-CA	-5.27	115.72	123.10
1	B	313	MET	N-CA-CB	5.27	119.27	110.41
1	B	175	VAL	N-CA-CB	5.27	119.93	111.23
1	C	78	MET	N-CA-C	5.27	118.15	109.72
1	A	76	MET	N-CA-CB	5.27	119.39	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	950	LYS	CA-C-N	5.27	128.72	120.82
1	A	950	LYS	C-N-CA	5.27	128.72	120.82
1	A	822	LEU	CB-CA-C	-5.26	99.80	110.17
1	B	348	ILE	CB-CA-C	-5.26	102.66	111.29
1	C	314	GLU	CA-C-N	-5.26	113.26	119.84
1	C	314	GLU	C-N-CA	-5.26	113.26	119.84
1	C	727	PHE	N-CA-C	5.26	116.88	108.41
1	A	727	PHE	CA-C-N	-5.26	115.39	123.07
1	A	727	PHE	C-N-CA	-5.26	115.39	123.07
1	C	685	ILE	CB-CA-C	-5.26	103.57	110.98
1	A	685	ILE	CG1-CB-CG2	5.25	126.46	110.70
1	C	158	VAL	CG1-CB-CG2	5.25	122.36	110.80
1	C	271	GLY	N-CA-C	5.25	125.63	113.18
1	A	110	LYS	N-CA-CB	-5.25	101.62	110.49
1	A	576	VAL	N-CA-C	-5.25	101.09	109.17
1	A	70	ASN	CB-CG-OD1	-5.25	110.31	120.80
1	B	577	GLN	N-CA-C	5.24	118.22	107.37
1	B	543	VAL	CB-CA-C	-5.24	105.25	111.65
1	C	125	GLN	N-CA-CB	-5.24	102.68	110.60
1	C	169	THR	CA-C-O	-5.24	113.80	120.20
1	C	234	ILE	O-C-N	-5.24	117.64	123.20
1	A	818	ARG	NE-CZ-NH1	5.24	126.74	121.50
1	B	905	VAL	CA-C-N	5.24	126.38	119.84
1	B	905	VAL	C-N-CA	5.24	126.38	119.84
1	A	968	VAL	CB-CA-C	-5.23	105.00	112.22
1	C	773	VAL	N-CA-CB	5.23	118.63	111.41
1	A	63	GLN	CA-C-N	-5.23	112.56	121.97
1	A	63	GLN	C-N-CA	-5.23	112.56	121.97
1	C	526	HIS	N-CA-C	5.23	116.98	111.28
1	C	806	SER	CB-CA-C	-5.23	100.02	110.42
1	C	235	ILE	N-CA-C	-5.23	100.36	107.99
1	B	375	VAL	N-CA-C	5.22	116.69	111.00
1	A	747	ASN	CB-CA-C	5.22	120.81	110.42
1	C	758	TYR	N-CA-CB	5.22	117.75	109.71
1	B	849	SER	CA-C-N	5.22	130.97	121.89
1	B	849	SER	C-N-CA	5.22	130.97	121.89
1	C	734	GLU	N-CA-C	5.22	121.92	110.80
1	B	398	MET	CB-CG-SD	-5.22	97.05	112.70
1	C	419	VAL	CB-CA-C	5.22	118.19	112.19
1	B	412	VAL	N-CA-C	-5.22	105.92	113.07
1	A	57	VAL	CA-CB-CG1	-5.21	101.53	110.40
1	B	51	GLY	N-CA-C	5.21	125.54	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	53	ASP	CA-C-N	5.21	131.50	121.54
1	C	53	ASP	C-N-CA	5.21	131.50	121.54
1	A	163	LYS	CB-CG-CD	5.21	123.29	111.30
1	C	69	MET	CB-CA-C	-5.21	102.25	111.22
1	C	626	ILE	CB-CA-C	-5.21	102.34	110.52
1	C	855	VAL	N-CA-C	-5.21	102.21	109.45
1	C	652	THR	N-CA-C	5.21	117.04	111.36
1	C	391	ASN	N-CA-C	5.21	116.58	109.18
1	C	815	ARG	CA-C-N	-5.20	115.44	122.77
1	C	815	ARG	C-N-CA	-5.20	115.44	122.77
1	C	124	GLN	CA-C-N	-5.20	114.22	122.23
1	C	124	GLN	C-N-CA	-5.20	114.22	122.23
1	A	47	ALA	CA-C-N	5.20	133.51	121.87
1	A	47	ALA	C-N-CA	5.20	133.51	121.87
1	A	842	GLU	N-CA-C	5.20	117.69	111.71
1	A	18	ILE	N-CA-CB	5.20	119.80	111.23
1	A	693	GLU	N-CA-C	5.20	117.36	111.02
1	A	816	LEU	CA-CB-CG	5.20	134.48	116.30
1	A	451	ALA	N-CA-C	5.19	119.09	112.34
1	B	902	MET	CB-CG-SD	5.18	128.25	112.70
1	A	289	LEU	CA-C-N	5.18	126.09	120.44
1	A	289	LEU	C-N-CA	5.18	126.09	120.44
1	C	53	ASP	N-CA-C	5.18	121.84	110.80
1	A	685	ILE	CB-CA-C	-5.18	102.79	111.29
1	C	258	SER	N-CA-C	-5.18	101.97	109.59
1	C	583	THR	CB-CA-C	-5.18	100.33	109.70
1	C	799	VAL	N-CA-CB	5.18	116.70	110.33
1	B	134	SER	N-CA-C	5.18	119.56	112.88
1	B	727	PHE	N-CA-C	5.18	117.19	108.96
1	B	265	VAL	CA-C-N	-5.17	114.69	122.81
1	B	265	VAL	C-N-CA	-5.17	114.69	122.81
1	C	171	GLY	N-CA-C	5.17	125.44	113.18
1	C	682	PHE	N-CA-CB	-5.17	102.89	110.49
1	A	105	VAL	CA-C-O	5.17	127.24	120.78
1	A	141	GLY	CA-C-O	-5.17	117.07	121.57
1	A	762	PHE	N-CA-CB	-5.17	103.50	111.46
1	C	629	VAL	N-CA-C	5.17	116.73	108.87
1	B	803	ALA	N-CA-C	-5.17	107.15	113.50
1	C	676	THR	N-CA-C	5.17	117.45	110.06
1	B	466	ILE	O-C-N	5.16	127.47	121.94
1	B	615	PHE	N-CA-C	5.16	116.81	108.34
1	A	69	MET	CB-CA-C	-5.16	100.15	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	674	LEU	N-CA-C	5.16	114.64	107.73
1	B	767	ARG	CB-CA-C	-5.16	102.83	110.62
1	B	343	THR	N-CA-CB	5.16	119.09	110.32
1	A	150	THR	CB-CA-C	-5.16	101.68	113.33
1	B	687	GLN	N-CA-C	5.15	119.32	113.19
1	A	66	GLU	CA-CB-CG	-5.15	103.80	114.10
1	B	158	VAL	CA-C-N	-5.15	112.87	122.09
1	B	158	VAL	C-N-CA	-5.15	112.87	122.09
1	C	49	TYR	CA-C-O	-5.15	114.31	120.54
1	A	559	LEU	CA-C-N	5.15	126.28	119.84
1	A	559	LEU	C-N-CA	5.15	126.28	119.84
1	C	254	ASN	N-CA-C	5.15	118.40	110.42
1	A	221	GLY	N-CA-C	5.14	125.37	113.18
1	B	869	SER	N-CA-C	5.14	118.33	111.75
1	B	1024	VAL	CA-C-N	5.14	127.44	120.44
1	B	1024	VAL	C-N-CA	5.14	127.44	120.44
1	A	111	LEU	CB-CA-C	-5.14	102.31	110.84
1	B	39	ALA	CA-C-N	-5.14	115.08	120.38
1	B	39	ALA	C-N-CA	-5.14	115.08	120.38
1	C	249	ILE	CA-C-N	5.14	129.24	122.30
1	C	249	ILE	C-N-CA	5.14	129.24	122.30
1	B	291	ILE	N-CA-C	5.14	120.03	109.34
1	A	415	ASN	N-CA-CB	5.13	117.67	110.12
1	B	383	LEU	CA-CB-CG	-5.13	98.36	116.30
1	C	763	ILE	CB-CA-C	-5.13	103.96	110.98
1	A	791	VAL	CB-CA-C	-5.12	104.07	111.34
1	C	760	ASN	CB-CA-C	5.12	120.61	110.42
1	B	229	GLN	N-CA-C	-5.12	99.89	110.80
1	C	184	MET	CB-CG-SD	5.12	128.07	112.70
1	B	3	ASN	N-CA-C	5.12	121.70	110.80
1	A	395	MET	CB-CG-SD	-5.12	97.35	112.70
1	A	659	LYS	CB-CA-C	-5.12	109.18	116.34
1	C	68	ASN	CB-CA-C	5.12	119.38	110.94
1	B	175	VAL	CB-CA-C	-5.11	102.90	111.29
1	A	997	SER	CB-CA-C	-5.11	109.08	116.54
1	A	74	ASN	CA-CB-CG	-5.11	107.49	112.60
1	B	723	ASP	CA-C-N	-5.11	114.05	123.65
1	B	723	ASP	C-N-CA	-5.11	114.05	123.65
1	C	94	PHE	O-C-N	5.11	128.66	122.94
1	A	993	THR	N-CA-C	5.11	117.48	108.75
1	A	462	SER	CA-C-N	5.10	129.23	120.71
1	A	462	SER	C-N-CA	5.10	129.23	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1002	ALA	CA-C-N	5.10	127.46	120.77
1	A	1002	ALA	C-N-CA	5.10	127.46	120.77
1	C	111	LEU	CA-CB-CG	-5.10	98.43	116.30
1	A	128	SER	N-CA-CB	-5.10	102.31	110.63
1	B	850	LYS	N-CA-C	5.10	117.66	108.48
1	A	85	THR	OG1-CB-CG2	-5.10	99.10	109.30
1	B	773	VAL	N-CA-C	-5.10	101.28	108.27
1	B	419	VAL	CA-C-N	5.09	131.12	122.36
1	B	419	VAL	C-N-CA	5.09	131.12	122.36
1	B	333	VAL	CB-CA-C	5.09	118.71	112.04
1	C	48	SER	CB-CA-C	5.09	119.72	109.38
1	C	769	LYS	CD-CE-NZ	5.09	128.20	111.90
1	A	70	ASN	N-CA-C	-5.09	99.95	110.80
1	C	61	VAL	CB-CA-C	-5.09	102.94	111.29
1	A	157	TYR	CB-CA-C	-5.09	100.30	110.42
1	A	62	THR	CA-CB-OG1	-5.08	101.97	109.60
1	B	768	VAL	N-CA-CB	-5.08	102.84	111.23
1	C	73	ASP	N-CA-CB	-5.08	102.38	110.06
1	B	90	ILE	N-CA-C	-5.08	103.04	109.80
1	B	1015	THR	N-CA-CB	5.08	118.20	110.42
1	C	143	ILE	N-CA-C	-5.08	98.77	109.34
1	C	46	SER	CB-CA-C	5.08	118.54	109.65
1	B	288	GLY	N-CA-C	5.08	117.96	110.80
1	C	262	LEU	N-CA-C	5.08	119.10	113.01
1	A	686	ASP	O-C-N	-5.07	116.04	122.17
1	A	697	GLN	CA-C-N	-5.07	113.13	121.19
1	A	697	GLN	C-N-CA	-5.07	113.13	121.19
1	B	386	PHE	N-CA-CB	5.07	118.25	110.70
1	A	30	LEU	CB-CA-C	5.07	116.26	109.42
1	C	93	THR	N-CA-CB	5.07	118.52	110.16
1	C	164	ASP	CB-CA-C	5.07	120.50	110.42
1	B	380	PHE	CA-C-N	-5.06	111.87	121.54
1	B	380	PHE	C-N-CA	-5.06	111.87	121.54
1	C	13	TRP	CB-CA-C	5.06	118.90	110.90
1	C	860	THR	N-CA-CB	5.06	119.22	111.22
1	A	902	MET	CB-CG-SD	5.06	127.88	112.70
1	C	156	ASP	CB-CG-OD1	5.06	130.04	118.40
1	A	6	ILE	N-CA-CB	5.06	117.42	110.54
1	A	195	LYS	CA-C-N	-5.06	113.23	122.38
1	A	195	LYS	C-N-CA	-5.06	113.23	122.38
1	C	88	VAL	N-CA-CB	5.06	120.19	111.39
1	B	652	THR	N-CA-C	-5.05	105.47	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	95	GLU	O-C-N	-5.05	115.87	122.59
1	C	484	VAL	O-C-N	5.05	127.42	121.96
1	A	124	GLN	N-CA-CB	-5.05	102.67	110.20
1	A	79	SER	CA-CB-OG	-5.05	101.00	111.10
1	A	149	MET	N-CA-C	5.05	117.84	109.46
1	A	522	LYS	CB-CA-C	-5.05	101.94	110.88
1	A	58	GLN	CA-C-N	-5.05	113.19	121.92
1	A	58	GLN	C-N-CA	-5.05	113.19	121.92
1	C	67	GLN	N-CA-C	-5.04	106.23	112.38
1	C	172	VAL	CA-C-O	-5.04	114.78	120.98
1	B	310	LEU	N-CA-CB	5.04	119.01	110.49
1	A	44	THR	CA-CB-CG2	-5.04	101.94	110.50
1	A	665	ALA	N-CA-C	-5.04	101.42	109.23
1	B	115	MET	N-CA-C	5.04	120.94	109.81
1	C	864	TYR	CA-C-N	5.03	128.74	120.63
1	C	864	TYR	C-N-CA	5.03	128.74	120.63
1	A	74	ASN	N-CA-C	5.03	121.51	110.80
1	A	93	THR	O-C-N	5.03	129.19	122.95
1	A	680	PHE	O-C-N	5.03	129.85	123.11
1	C	88	VAL	CA-CB-CG2	5.03	118.95	110.40
1	A	696	THR	OG1-CB-CG2	-5.03	99.24	109.30
1	A	762	PHE	N-CA-C	-5.03	101.26	108.60
1	B	234	ILE	N-CA-C	5.03	119.80	109.34
1	A	479	ALA	CA-C-N	-5.03	112.32	120.71
1	A	479	ALA	C-N-CA	-5.03	112.32	120.71
1	B	903	LEU	CB-CG-CD1	5.02	125.77	110.70
1	C	371	ALA	CA-C-N	-5.02	112.84	122.13
1	C	371	ALA	C-N-CA	-5.02	112.84	122.13
1	B	431	THR	N-CA-C	-5.02	103.14	111.37
1	B	1027	VAL	N-CA-C	5.02	115.45	110.23
1	A	49	TYR	CB-CA-C	-5.02	100.28	110.17
1	A	727	PHE	O-C-N	5.02	129.19	123.27
1	B	2	PRO	CA-C-N	5.02	131.12	121.54
1	B	2	PRO	C-N-CA	5.02	131.12	121.54
1	C	416	VAL	N-CA-C	-5.02	106.71	112.98
1	A	816	LEU	CD1-CG-CD2	5.02	121.84	110.80
1	C	561	SER	N-CA-CB	-5.01	101.93	111.00
1	C	964	THR	CB-CA-C	5.01	120.18	110.46
1	B	825	MET	N-CA-C	5.00	117.97	109.76
1	C	248	LYS	CB-CG-CD	-5.00	99.80	111.30

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	61	VAL	CA

All (61) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	105	VAL	Peptide
1	A	107	VAL	Peptide
1	A	110	LYS	Peptide
1	A	113	LEU	Peptide
1	A	126	GLY	Peptide
1	A	160	ALA	Peptide
1	A	176	GLN	Peptide
1	A	405	LEU	Peptide
1	A	445	ILE	Peptide
1	A	62	THR	Peptide
1	A	628	PHE	Peptide
1	A	64	VAL	Mainchain,Peptide
1	A	65	ILE	Peptide
1	A	68	ASN	Sidechain
1	A	69	MET	Peptide
1	A	71	GLY	Peptide
1	A	72	ILE	Peptide
1	A	722	GLU	Peptide
1	A	78	MET	Peptide
1	A	79	SER	Peptide
1	A	80	SER	Peptide
1	A	819	TYR	Peptide
1	A	822	LEU	Mainchain,Peptide
1	A	823	PRO	Peptide
1	A	86	GLY	Peptide
1	A	860	THR	Peptide
1	A	88	VAL	Peptide
1	A	90	ILE	Peptide
1	A	92	LEU	Peptide
1	B	1007	VAL	Peptide
1	B	130	GLU	Peptide
1	B	232	ALA	Peptide
1	B	308	ALA	Peptide
1	B	379	THR	Peptide
1	B	464	GLY	Peptide
1	B	52	ALA	Peptide
1	B	670	ALA	Peptide
1	B	673	GLU	Peptide

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Mol	Chain	Res	Type	Group
1	B	717	ARG	Peptide
1	B	732	ASP	Peptide
1	C	123	GLN	Peptide
1	C	124	GLN	Peptide
1	C	126	GLY	Peptide
1	C	137	LEU	Peptide
1	C	164	ASP	Peptide
1	C	171	GLY	Peptide
1	C	214	VAL	Peptide
1	C	247	GLY	Peptide
1	C	295	THR	Peptide
1	C	329	THR	Peptide
1	C	53	ASP	Peptide
1	C	57	VAL	Peptide
1	C	751	GLY	Peptide
1	C	756	GLY	Peptide
1	C	800	PRO	Peptide
1	C	809	TRP	Peptide
1	C	821	GLY	Peptide
1	C	86	GLY	Peptide
1	C	88	VAL	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	7774	0	7928	1982	0
1	B	7774	0	7931	1906	0
1	C	7774	0	7930	1981	0
2	A	39	0	27	23	0
All	All	23361	0	23816	5679	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 120.

All (5679) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:LEU:CD2	1:A:118:LEU:CG	1.75	1.64
1:C:60:THR:CB	1:C:60:THR:CG2	1.75	1.62
1:C:88:VAL:CA	1:C:88:VAL:CB	1.80	1.59
1:C:767:ARG:CB	1:C:767:ARG:CG	1.78	1.59
1:C:65:ILE:CB	1:C:65:ILE:CG2	1.77	1.59
1:C:166:ILE:CB	1:C:166:ILE:CG2	1.81	1.59
1:B:105:VAL:CG1	1:B:105:VAL:CB	1.81	1.58
1:C:770:LYS:CB	1:C:770:LYS:CG	1.77	1.58
1:C:166:ILE:CG2	1:C:175:VAL:HG21	1.17	1.58
1:B:112:GLN:CG	1:B:112:GLN:CD	1.76	1.57
1:A:73:ASP:CG	1:A:73:ASP:CB	1.76	1.57
1:C:165:ALA:CB	1:C:165:ALA:CA	1.77	1.57
1:A:685:ILE:CB	1:A:685:ILE:CG2	1.75	1.56
1:A:1021:PHE:HB3	1:A:1025:PHE:CE2	1.39	1.56
1:A:816:LEU:CD2	1:A:816:LEU:CG	1.77	1.55
1:C:158:VAL:CB	1:C:158:VAL:CG1	1.83	1.55
1:A:72:ILE:C	1:A:72:ILE:CA	1.80	1.55
1:A:818:ARG:NH1	1:A:818:ARG:CZ	1.68	1.55
1:C:115:MET:CE	1:C:118:LEU:HD22	1.35	1.55
1:A:64:VAL:CG1	1:A:64:VAL:CB	1.83	1.54
1:A:79:SER:CA	1:A:79:SER:C	1.76	1.54
1:A:818:ARG:CG	1:A:818:ARG:CB	1.75	1.54
1:B:380:PHE:CE1	1:B:398:MET:HE1	1.37	1.54
1:C:169:THR:CA	1:C:169:THR:CB	1.82	1.53
1:A:55:LYS:CE	1:A:55:LYS:CD	1.82	1.53
1:A:77:TYR:CA	1:A:77:TYR:C	1.81	1.53
1:A:111:LEU:CG	1:A:111:LEU:CD1	1.79	1.53
1:A:818:ARG:CA	1:A:818:ARG:C	1.77	1.53
1:A:823:PRO:CG	1:A:823:PRO:CD	1.81	1.53
1:C:131:LYS:NZ	1:C:131:LYS:CE	1.72	1.53
1:A:823:PRO:CG	1:A:823:PRO:CB	1.78	1.52
1:C:87:THR:CB	1:C:87:THR:CG2	1.84	1.52
1:C:770:LYS:CE	1:C:770:LYS:CD	1.87	1.52
1:A:107:VAL:CB	1:A:107:VAL:CG1	1.85	1.51
1:A:117:LEU:CD2	1:A:117:LEU:CG	1.85	1.51
1:C:169:THR:CA	1:C:169:THR:N	1.69	1.50
1:A:112:GLN:CG	1:A:112:GLN:CD	1.84	1.50
1:A:823:PRO:N	1:A:823:PRO:CA	1.69	1.50
1:C:164:ASP:CB	1:C:164:ASP:CG	1.82	1.49
1:A:90:ILE:CG1	1:A:90:ILE:CD1	1.91	1.48
1:A:70:ASN:CG	1:A:70:ASN:ND2	1.71	1.46
1:A:813:SER:HB3	1:A:816:LEU:CD2	1.45	1.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:163:LYS:NZ	1:C:163:LYS:CE	1.78	1.45
1:A:110:LYS:NZ	1:A:110:LYS:CE	1.80	1.44
1:C:291:ILE:CD1	1:C:291:ILE:CG1	1.95	1.44
1:A:69:MET:SD	1:A:69:MET:CG	2.04	1.44
1:A:822:LEU:CG	1:A:822:LEU:CD1	1.92	1.44
1:A:110:LYS:CG	1:A:110:LYS:CB	1.94	1.43
1:A:69:MET:N	1:A:69:MET:CA	1.82	1.42
1:B:380:PHE:CE1	1:B:398:MET:CE	2.00	1.41
1:A:68:ASN:CB	1:A:68:ASN:CA	2.01	1.38
1:A:375:VAL:CG2	1:A:484:VAL:HG11	1.53	1.38
1:B:986:VAL:HG12	1:B:990:VAL:CG2	1.55	1.37
1:C:238:THR:CG2	1:C:239:ARG:H	1.01	1.37
1:C:30:LEU:CD2	1:C:384:ALA:HB2	1.55	1.37
1:A:400:LEU:CD2	1:A:1003:VAL:HG22	1.54	1.36
1:A:69:MET:SD	1:A:69:MET:CE	2.14	1.36
1:B:523:SER:HA	1:B:526:HIS:CD2	1.61	1.35
1:B:228:GLN:OE1	1:C:781:MET:HE3	1.25	1.35
1:A:61:VAL:HG22	1:A:118:LEU:CD2	1.55	1.34
1:B:115:MET:HE1	1:B:127:VAL:CB	1.57	1.34
1:A:949:ALA:HB1	1:A:1026:PHE:CE2	1.62	1.33
1:B:324:VAL:HG23	1:B:326:PRO:CD	1.58	1.33
1:A:66:GLU:O	1:A:68:ASN:N	1.57	1.32
1:A:66:GLU:N	1:A:66:GLU:CA	1.89	1.32
1:C:1025:PHE:O	1:C:1029:VAL:HG23	1.29	1.31
1:A:112:GLN:HG3	1:C:112:GLN:NE2	1.39	1.31
1:B:1022:VAL:HG23	1:B:1023:PRO:CD	1.57	1.30
1:C:725:PRO:HD3	1:C:811:TYR:CE2	1.63	1.30
1:B:357:LEU:HD12	1:B:357:LEU:O	1.29	1.30
1:C:190:PRO:HD3	1:C:779:TYR:CD1	1.67	1.30
1:B:35:TYR:CB	1:B:38:ILE:HD11	1.61	1.30
1:C:58:GLN:CD	1:C:82:SER:HB2	1.56	1.29
1:B:35:TYR:HB3	1:B:38:ILE:CD1	1.62	1.29
1:B:115:MET:HE1	1:B:127:VAL:CG2	1.61	1.29
1:B:683:GLU:OE2	1:B:826:GLU:HG3	1.15	1.29
1:A:191:ASN:O	1:A:193:LEU:N	1.66	1.28
1:B:187:TRP:CZ3	1:B:774:MET:HE3	1.68	1.28
1:C:231:ASN:HD22	1:C:232:ALA:N	1.30	1.28
1:A:108:GLN:HG3	1:B:112:GLN:OE1	1.26	1.28
1:A:781:MET:CE	1:C:228:GLN:OE1	1.79	1.28
1:B:945:ILE:HG21	1:B:1026:PHE:CE2	1.67	1.27
1:B:1022:VAL:CG2	1:B:1023:PRO:HD3	1.63	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:166:ILE:CG2	1:C:175:VAL:CG2	2.13	1.27
1:A:926:TYR:CE1	1:A:999:ALA:HB1	1.67	1.27
1:B:5:PHE:O	1:B:491:ALA:HB2	1.33	1.27
1:B:235:ILE:HD11	1:C:726:GLN:NE2	1.50	1.27
1:A:103:ALA:O	1:A:106:GLN:HB2	1.29	1.26
1:B:987:MET:HA	1:B:987:MET:CE	1.64	1.26
1:B:280:GLU:HB2	1:B:284:GLN:O	1.21	1.26
1:A:72:ILE:HG23	1:A:106:GLN:NE2	1.46	1.25
1:C:414:GLU:OE2	1:C:977:MET:HG3	1.33	1.25
1:B:49:TYR:CD2	1:B:122:VAL:HA	1.70	1.25
1:A:781:MET:HE3	1:C:228:GLN:OE1	1.06	1.24
1:A:210:GLN:HG3	1:A:249:ILE:CG2	1.65	1.24
1:C:138:MET:CE	1:C:306:ILE:HG21	1.66	1.24
1:B:104:GLN:HE21	1:B:104:GLN:C	1.43	1.23
1:C:423:GLU:O	1:C:426:PRO:HD3	1.33	1.23
1:B:49:TYR:CE2	1:B:122:VAL:HA	1.73	1.23
1:C:545:TYR:OH	1:C:1021:PHE:HB3	1.06	1.23
1:B:1016:VAL:CG1	1:B:1017:LEU:HD23	1.68	1.22
1:A:447:MET:HB3	1:A:887:CYS:SG	1.77	1.22
1:C:545:TYR:OH	1:C:1021:PHE:CB	1.87	1.22
1:A:1021:PHE:CB	1:A:1025:PHE:HE2	1.52	1.21
1:C:26:ALA:O	1:C:30:LEU:HG	1.39	1.21
1:A:986:VAL:C	1:A:988:PRO:HD2	1.63	1.21
1:B:144:ASN:HB2	1:B:320:GLY:O	1.06	1.21
1:B:899:PHE:O	1:B:903:LEU:HD13	1.40	1.21
1:A:53:ASP:OD2	1:A:56:THR:HB	1.37	1.21
1:A:114:ALA:O	1:A:117:LEU:HD23	1.41	1.20
1:A:375:VAL:CG2	1:A:484:VAL:CG1	2.18	1.19
1:C:102:ILE:CG2	1:C:103:ALA:N	1.97	1.19
1:A:30:LEU:CD2	1:A:384:ALA:HB2	1.72	1.19
1:A:713:LEU:O	1:A:714:THR:HG23	1.38	1.19
1:B:531:VAL:HG12	1:B:535:LEU:CD1	1.73	1.19
1:C:485:ALA:O	1:C:490:PRO:HD3	1.43	1.19
1:C:721:LEU:HD12	1:C:815:ARG:O	1.43	1.18
1:A:685:ILE:HD11	1:A:687:GLN:NE2	1.58	1.18
1:A:993:THR:HG21	1:A:1000:GLN:OE1	1.40	1.18
1:B:240:LEU:CD2	1:B:245:GLU:HB2	1.73	1.18
1:A:105:VAL:O	1:A:108:GLN:HB3	1.39	1.18
1:A:965:LEU:O	1:A:969:ARG:HG3	1.40	1.18
1:A:375:VAL:HG22	1:A:484:VAL:CG1	1.73	1.17
1:C:34:GLN:HB3	1:C:333:VAL:HG21	1.26	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:166:ILE:HG23	1:C:175:VAL:HG21	1.23	1.17
1:A:72:ILE:CG2	1:A:106:GLN:HE21	1.57	1.17
1:B:683:GLU:OE2	1:B:826:GLU:CG	1.93	1.17
1:A:61:VAL:HG22	1:A:118:LEU:HD22	1.25	1.17
1:A:210:GLN:CG	1:A:249:ILE:HG23	1.74	1.17
1:C:830:GLN:NE2	1:C:832:ALA:HB2	1.60	1.17
1:A:690:LEU:HD11	1:A:854:GLY:CA	1.74	1.16
1:B:115:MET:CE	1:B:127:VAL:HG21	1.73	1.16
1:B:945:ILE:HB	1:B:1026:PHE:CZ	1.81	1.16
1:A:225:VAL:O	1:A:226:LYS:O	1.64	1.16
1:A:349:ILE:HG22	1:A:350:LEU:HD23	1.16	1.16
1:B:324:VAL:CG2	1:B:326:PRO:HD3	1.76	1.16
1:A:109:ASN:ND2	1:C:108:GLN:OE1	1.79	1.16
1:A:176:GLN:NE2	2:A:2002:DM2:H10	1.59	1.16
1:B:340:VAL:HG21	1:B:396:PHE:HE1	1.11	1.16
1:C:83:ASP:OD2	1:C:87:THR:HG22	1.41	1.16
1:C:166:ILE:HG21	1:C:175:VAL:CG2	1.75	1.16
1:A:228:GLN:NE2	1:B:781:MET:HB3	1.60	1.16
1:B:790:TYR:CE1	1:B:800:PRO:HB3	1.81	1.16
1:A:559:LEU:HD12	1:A:560:PRO:HD2	1.17	1.15
1:A:344:LEU:HD23	1:A:402:ILE:HD13	1.28	1.15
1:A:926:TYR:CE1	1:A:999:ALA:CB	2.28	1.15
1:B:713:LEU:HD23	1:B:713:LEU:H	0.99	1.15
1:C:231:ASN:HD22	1:C:231:ASN:C	1.50	1.15
1:B:65:ILE:HG21	1:B:90:ILE:HD13	1.29	1.15
1:C:30:LEU:HD21	1:C:384:ALA:CB	1.75	1.15
1:C:115:MET:CE	1:C:118:LEU:CD2	2.24	1.15
1:C:138:MET:HE2	1:C:306:ILE:HD13	1.28	1.15
1:C:919:ARG:HB3	1:C:921:LEU:HD23	1.18	1.15
1:A:107:VAL:CG1	1:A:108:GLN:H	1.59	1.14
1:B:559:LEU:HD23	1:B:923:ASN:HB2	1.15	1.14
1:C:830:GLN:HE21	1:C:832:ALA:HB2	1.05	1.14
1:A:540:ARG:O	1:A:543:VAL:HG12	1.45	1.14
1:B:946:VAL:HG22	1:B:1026:PHE:CE1	1.82	1.14
1:C:115:MET:HE2	1:C:118:LEU:HD22	1.16	1.14
1:A:108:GLN:O	1:A:110:LYS:N	1.80	1.14
1:A:441:ALA:O	1:A:445:ILE:HG13	1.44	1.14
1:A:852:PRO:O	1:A:855:VAL:HG23	1.45	1.14
1:C:552:MET:SD	1:C:909:VAL:HG11	1.88	1.14
1:B:925:VAL:HA	1:B:928:GLN:OE1	1.45	1.13
1:B:1:MET:SD	1:B:487:ILE:HD11	1.88	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:TYR:HA	1:B:161:ASN:ND2	1.63	1.13
1:B:101:ASP:O	1:B:105:VAL:HG23	1.48	1.13
1:A:359:LEU:HD21	1:A:417:GLU:HG2	1.23	1.13
1:B:983:ILE:HD11	1:B:1012:VAL:HG23	1.18	1.13
1:A:64:VAL:CB	1:A:64:VAL:CA	2.25	1.13
1:A:105:VAL:CG1	1:A:106:GLN:H	1.49	1.12
1:B:242:SER:HB2	1:B:245:GLU:OE1	1.48	1.12
1:B:559:LEU:CD2	1:B:923:ASN:HB2	1.79	1.12
1:C:688:ALA:O	1:C:690:LEU:N	1.82	1.12
1:A:90:ILE:CD1	1:A:90:ILE:CB	2.27	1.12
1:B:355:MET:CE	1:B:369:THR:HG23	1.79	1.12
1:A:518:ARG:HH11	1:A:518:ARG:HB2	1.13	1.12
1:B:987:MET:HE3	1:B:987:MET:CA	1.80	1.12
1:C:60:THR:HG23	1:C:61:VAL:HG23	1.13	1.12
1:A:740:GLY:O	1:A:793:ALA:HB1	1.49	1.12
1:C:197:GLN:HA	1:C:798:MET:HE2	1.27	1.12
1:B:13:TRP:CE3	1:B:488:LEU:HD21	1.85	1.12
1:B:115:MET:HE1	1:B:127:VAL:HG21	1.23	1.12
1:B:240:LEU:HD22	1:B:245:GLU:HB2	1.17	1.12
1:C:218:GLN:HB3	1:C:233:SER:HA	1.31	1.12
1:B:410:ILE:HG21	1:B:978:THR:HG22	1.32	1.11
1:C:74:ASN:ND2	1:C:98:THR:CG2	2.14	1.11
1:A:252:LYS:HB3	1:A:260:VAL:HG21	1.22	1.11
1:A:729:ILE:CG2	1:A:730:ASP:H	1.63	1.11
1:B:1007:VAL:HG13	1:B:1007:VAL:O	1.30	1.11
1:A:30:LEU:HD21	1:A:384:ALA:HB2	1.19	1.11
1:B:973:ARG:HA	1:B:976:LEU:HD12	1.28	1.11
1:B:1016:VAL:HG12	1:B:1017:LEU:CD2	1.79	1.11
1:C:118:LEU:N	1:C:118:LEU:HD12	1.61	1.11
1:C:577:GLN:HB3	1:C:624:THR:HG22	1.12	1.11
1:B:177:LEU:HD12	1:B:178:PHE:N	1.65	1.11
1:B:226:LYS:HA	1:B:226:LYS:HE3	1.15	1.11
1:B:463:THR:HG21	1:B:869:SER:HB2	1.11	1.11
1:B:601:LYS:O	1:B:603:LYS:N	1.83	1.11
1:C:184:MET:CE	1:C:185:ARG:H	1.62	1.11
1:A:583:THR:HG23	1:A:583:THR:O	1.46	1.10
1:B:431:THR:HG21	1:B:493:CYS:HB2	1.32	1.10
1:C:102:ILE:HG22	1:C:103:ALA:N	1.16	1.10
1:A:443:VAL:O	1:A:445:ILE:N	1.83	1.10
1:B:200:PRO:HD2	1:B:749:THR:HG22	1.15	1.10
1:C:393:LEU:HD11	1:C:466:ILE:HG23	1.27	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:234:ILE:O	1:B:52:ALA:HB2	1.51	1.10
1:A:400:LEU:HD21	1:A:1003:VAL:CG2	1.82	1.10
1:B:337:ILE:HG22	1:B:337:ILE:O	1.48	1.10
1:A:9:PRO:HB3	1:A:491:ALA:HB1	1.28	1.10
1:B:144:ASN:CB	1:B:320:GLY:O	1.98	1.10
1:C:728:LYS:HG3	1:C:729:ILE:H	1.07	1.10
1:B:157:TYR:HA	1:B:161:ASN:HD21	1.11	1.09
1:B:547:ILE:HG22	1:B:548:ILE:H	1.09	1.09
1:C:58:GLN:OE1	1:C:82:SER:HB2	1.50	1.09
1:C:843:LEU:O	1:C:846:GLN:HB2	1.51	1.09
1:A:66:GLU:OE1	1:A:818:ARG:HD3	1.50	1.09
1:A:674:LEU:HD22	1:A:675:GLY:H	1.10	1.09
1:B:115:MET:CE	1:B:127:VAL:CG2	2.29	1.09
1:B:130:GLU:OE1	1:C:110:LYS:HE2	1.53	1.09
1:C:74:ASN:ND2	1:C:98:THR:HG23	1.66	1.09
1:C:108:GLN:HG3	1:C:129:VAL:HG21	1.20	1.09
1:A:813:SER:HB3	1:A:816:LEU:HD23	1.17	1.09
1:B:478:MET:HE3	1:B:478:MET:HA	1.15	1.09
1:B:988:PRO:HA	1:B:991:ILE:HD13	1.29	1.09
1:C:289:LEU:HD12	1:C:289:LEU:H	1.04	1.09
1:C:455:PRO:O	1:C:876:LEU:HD22	1.53	1.09
1:C:699:ARG:HG2	1:C:699:ARG:HH11	1.12	1.09
1:A:695:LEU:HG	1:A:825:MET:HE3	1.15	1.09
1:B:990:VAL:HG13	1:B:1005:THR:HG22	1.21	1.09
1:C:222:THR:HB	1:C:223:PRO:HD3	1.34	1.09
1:C:568:ASP:OD1	1:C:634:TRP:HE3	1.34	1.09
1:A:60:THR:HG21	1:A:119:PRO:HG3	1.32	1.08
1:B:425:LEU:HB3	1:B:498:LYS:O	1.51	1.08
1:C:530:SER:HB2	1:C:534:ILE:HD11	1.18	1.08
1:C:657:GLN:NE2	1:C:657:GLN:HA	1.61	1.08
1:C:699:ARG:HH11	1:C:699:ARG:CG	1.63	1.08
1:A:443:VAL:HG12	1:A:444:GLY:H	0.91	1.08
1:A:540:ARG:O	1:A:543:VAL:CG1	2.01	1.08
1:A:894:SER:CB	1:A:897:ILE:HD13	1.84	1.08
1:A:926:TYR:HE1	1:A:999:ALA:CB	1.66	1.08
1:B:1:MET:HA	1:B:3:ASN:OD1	1.52	1.08
1:B:200:PRO:HA	1:B:203:VAL:CG2	1.83	1.08
1:B:393:LEU:HD11	1:B:466:ILE:HG23	1.35	1.08
1:C:161:ASN:HB3	1:C:162:MET:HG3	1.30	1.08
1:C:729:ILE:HD11	1:C:786:ILE:HD13	1.27	1.08
1:C:1024:VAL:HG12	1:C:1028:VAL:CG2	1.83	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:105:VAL:HG12	1:A:106:GLN:N	1.43	1.08
1:A:228:GLN:HE22	1:B:781:MET:CB	1.67	1.08
1:B:865:GLN:HE21	1:B:868:LEU:CD2	1.66	1.08
1:C:76:MET:HE2	1:C:95:GLU:HA	1.35	1.08
1:C:152:GLU:O	1:C:154:ILE:N	1.87	1.08
1:C:195:LYS:HG2	1:C:196:PHE:N	1.65	1.08
1:A:822:LEU:HB2	1:A:823:PRO:HD2	1.25	1.08
1:A:90:ILE:HG21	1:A:90:ILE:HD13	1.15	1.07
1:B:65:ILE:CG2	1:B:90:ILE:HD13	1.82	1.07
1:B:187:TRP:HZ3	1:B:774:MET:HE3	0.94	1.07
1:B:324:VAL:HG23	1:B:326:PRO:HD3	1.14	1.07
1:C:901:VAL:O	1:C:904:VAL:CG2	2.01	1.07
1:A:115:MET:O	1:A:117:LEU:N	1.88	1.07
1:A:188:MET:HE1	1:A:200:PRO:HB3	1.34	1.07
1:C:5:PHE:HE2	1:C:11:PHE:CD2	1.70	1.07
1:A:400:LEU:HD21	1:A:1003:VAL:HG22	1.10	1.07
1:A:822:LEU:CB	1:A:823:PRO:HD2	1.77	1.07
1:B:904:VAL:HG13	1:B:907:LEU:HD12	1.30	1.07
1:B:986:VAL:HG12	1:B:990:VAL:HG23	1.26	1.07
1:C:289:LEU:HD12	1:C:289:LEU:N	1.68	1.07
1:C:758:TYR:HD2	1:C:758:TYR:N	1.49	1.07
1:B:945:ILE:CG2	1:B:1026:PHE:CE2	2.36	1.07
1:B:964:THR:HG22	1:B:965:LEU:CD2	1.85	1.07
1:B:646:ALA:HA	1:B:649:MET:HB2	1.33	1.07
1:C:423:GLU:CB	1:C:426:PRO:HD2	1.85	1.07
1:A:298:ASN:ND2	1:A:300:LEU:H	1.53	1.06
1:A:818:ARG:C	1:A:818:ARG:HA	1.79	1.06
1:B:453:PHE:HZ	1:B:933:THR:HG23	1.17	1.06
1:B:1022:VAL:CG2	1:B:1023:PRO:CD	2.24	1.06
1:C:4:PHE:O	1:C:8:ARG:NH1	1.88	1.06
1:A:61:VAL:HG22	1:A:118:LEU:HD21	1.31	1.06
1:A:578:LEU:HD12	1:A:587:THR:HG23	1.32	1.06
1:A:961:ILE:HG22	1:A:965:LEU:HD11	1.35	1.06
1:B:13:TRP:HE3	1:B:488:LEU:HD21	1.09	1.06
1:B:986:VAL:HG12	1:B:990:VAL:HG21	1.35	1.06
1:A:107:VAL:HG12	1:A:108:GLN:H	1.21	1.06
1:A:818:ARG:CG	1:A:818:ARG:CA	2.34	1.06
1:B:174:ASP:O	1:B:175:VAL:HG23	1.50	1.06
1:B:187:TRP:CZ3	1:B:774:MET:CE	2.38	1.06
1:B:445:ILE:HG23	1:B:940:LYS:HG3	1.37	1.06
1:C:69:MET:CE	1:C:92:LEU:HD21	1.84	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:150:THR:OG1	1:C:152:GLU:HG2	1.53	1.06
1:C:705:GLU:HA	1:C:708:LYS:HG3	1.34	1.06
1:C:901:VAL:O	1:C:904:VAL:HG23	1.54	1.06
1:C:912:ALA:O	1:C:914:LEU:N	1.88	1.06
1:A:72:ILE:CD1	1:A:72:ILE:H	1.69	1.06
1:A:107:VAL:O	1:A:110:LYS:HB3	1.56	1.06
1:B:14:VAL:HG11	1:C:890:ALA:HB2	1.35	1.06
1:C:115:MET:HE1	1:C:118:LEU:CD2	1.85	1.06
1:C:848:ALA:HA	1:C:851:LEU:HD11	1.37	1.06
1:C:238:THR:HG22	1:C:239:ARG:N	0.99	1.06
1:A:676:THR:O	1:A:677:ALA:O	1.72	1.05
1:B:453:PHE:CZ	1:B:933:THR:HG23	1.91	1.05
1:C:166:ILE:CG2	1:C:166:ILE:C	2.29	1.05
1:A:60:THR:CG2	1:A:119:PRO:HG3	1.85	1.05
1:A:1019:ILE:HG13	1:A:1020:PHE:CD2	1.89	1.05
1:A:107:VAL:HG12	1:A:108:GLN:N	1.70	1.05
1:A:690:LEU:CD1	1:A:854:GLY:HA3	1.86	1.05
1:B:189:ASN:HB3	1:B:192:GLU:HB2	1.38	1.05
1:B:331:PRO:CD	1:B:332:PHE:H	1.65	1.05
1:B:474:ILE:HG22	1:B:475:VAL:H	0.93	1.05
1:C:658:ILE:HD13	1:C:658:ILE:H	1.16	1.05
1:A:72:ILE:H	1:A:72:ILE:HD13	1.20	1.05
1:A:367:ILE:HG12	1:A:493:CYS:HB3	1.38	1.05
1:A:873:ALA:HB3	1:A:874:PRO:HD2	1.35	1.05
1:C:184:MET:HA	1:C:184:MET:HE3	1.39	1.05
1:A:382:VAL:HG11	1:A:476:SER:HB2	1.36	1.05
1:B:235:ILE:HD11	1:C:726:GLN:CD	1.81	1.05
1:A:968:VAL:HG21	1:A:1023:PRO:HG3	1.32	1.04
1:A:7:ASP:O	1:A:9:PRO:HD3	1.57	1.04
1:B:119:PRO:HB2	1:B:122:VAL:HG23	1.30	1.04
1:B:992:SER:OG	1:B:1000:GLN:NE2	1.90	1.04
1:C:564:LEU:CD2	1:C:671:ILE:HD12	1.87	1.04
1:A:114:ALA:O	1:A:117:LEU:CD2	2.04	1.04
1:A:560:PRO:HB2	1:A:922:THR:HG22	1.06	1.04
1:A:615:PHE:CE1	2:A:2002:DM2:H1	1.91	1.04
1:A:989:LEU:HD13	1:A:993:THR:CG2	1.87	1.04
1:B:474:ILE:HG22	1:B:475:VAL:N	1.68	1.04
1:B:669:PRO:HB2	1:B:862:MET:HE2	1.37	1.04
1:C:189:ASN:ND2	1:C:779:TYR:CE1	2.25	1.04
1:C:894:SER:HB2	1:C:897:ILE:HD12	1.40	1.04
1:A:90:ILE:HG22	1:A:90:ILE:O	1.51	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:340:VAL:HG21	1:B:396:PHE:CE1	1.93	1.04
1:B:372:VAL:HG12	1:B:373:PRO:HD3	1.34	1.04
1:B:986:VAL:CG1	1:B:990:VAL:CG2	2.36	1.04
1:C:423:GLU:HB3	1:C:426:PRO:CD	1.88	1.04
1:A:443:VAL:HG12	1:A:444:GLY:N	1.71	1.04
1:B:74:ASN:ND2	1:B:98:THR:HB	1.70	1.04
1:C:190:PRO:CD	1:C:779:TYR:CD1	2.41	1.04
1:C:399:VAL:HG12	1:C:400:LEU:N	1.69	1.04
1:A:105:VAL:HG12	1:A:106:GLN:H	0.98	1.03
1:B:525:HIS:HB3	1:B:529:ASP:OD2	1.57	1.03
1:C:115:MET:HE1	1:C:118:LEU:HD22	1.09	1.03
1:C:725:PRO:HD3	1:C:811:TYR:HE2	0.87	1.03
1:A:727:PHE:CE1	1:A:783:PRO:HB3	1.93	1.03
1:A:729:ILE:HG23	1:A:730:ASP:H	1.20	1.03
1:B:324:VAL:CG2	1:B:326:PRO:CD	2.32	1.03
1:C:5:PHE:CE2	1:C:11:PHE:CD2	2.47	1.03
1:C:619:GLY:O	1:C:620:ARG:O	1.74	1.03
1:B:200:PRO:HA	1:B:203:VAL:HG23	1.36	1.03
1:B:242:SER:CB	1:B:245:GLU:OE1	2.06	1.03
1:C:743:ILE:O	1:C:746:ILE:HG13	1.56	1.03
1:A:167:SER:HB2	1:A:175:VAL:HG22	1.41	1.03
1:B:34:GLN:HB2	1:B:333:VAL:CG2	1.88	1.03
1:B:34:GLN:HB2	1:B:333:VAL:HG21	1.36	1.03
1:C:721:LEU:CD1	1:C:815:ARG:O	2.05	1.03
1:C:790:TYR:CD1	1:C:800:PRO:HB3	1.91	1.03
1:A:375:VAL:HG22	1:A:484:VAL:HG11	1.08	1.03
1:A:616:GLY:O	1:A:618:ALA:N	1.92	1.03
1:A:729:ILE:CG2	1:A:730:ASP:N	2.17	1.03
1:A:1024:VAL:O	1:A:1028:VAL:HG23	1.59	1.03
1:B:667:ASN:O	1:B:678:THR:OG1	1.76	1.03
1:B:870:GLY:O	1:B:872:GLN:N	1.89	1.03
1:C:742:SER:OG	1:C:745:ASP:OD2	1.77	1.03
1:A:989:LEU:HD13	1:A:993:THR:HG23	1.40	1.02
1:B:225:VAL:CG2	1:C:781:MET:HE2	1.89	1.02
1:A:775:SER:O	1:A:775:SER:OG	1.63	1.02
1:B:115:MET:CE	1:B:127:VAL:CB	2.36	1.02
1:B:331:PRO:HD2	1:B:332:PHE:H	1.21	1.02
1:A:90:ILE:HD13	1:A:90:ILE:CG2	1.89	1.02
1:A:813:SER:HB3	1:A:816:LEU:HD21	1.38	1.02
1:A:860:THR:O	1:A:864:TYR:HB2	1.55	1.02
1:B:115:MET:CE	1:B:127:VAL:HB	1.90	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:949:ALA:CB	1:A:1026:PHE:CE2	2.42	1.02
1:B:531:VAL:HG12	1:B:535:LEU:HD11	1.40	1.02
1:B:918:PHE:CD1	1:B:919:ARG:HD3	1.95	1.02
1:C:138:MET:HE1	1:C:306:ILE:HG21	1.39	1.02
1:A:274:ASN:ND2	1:A:276:ASP:H	1.58	1.02
1:A:685:ILE:HD11	1:A:687:GLN:HE21	0.85	1.02
1:A:387:GLY:O	1:A:388:PHE:O	1.78	1.01
1:B:713:LEU:H	1:B:713:LEU:CD2	1.72	1.01
1:C:54:ALA:HB2	1:C:84:SER:HB2	1.42	1.01
1:C:728:LYS:HG3	1:C:729:ILE:N	1.65	1.01
1:B:340:VAL:HG11	1:B:395:MET:HB3	1.42	1.01
1:B:618:ALA:O	1:B:815:ARG:NH2	1.93	1.01
1:C:69:MET:HE1	1:C:92:LEU:HD21	1.39	1.01
1:C:361:ASN:HB2	1:C:364:ALA:HB3	1.42	1.01
1:C:393:LEU:HD11	1:C:466:ILE:CG2	1.90	1.01
1:C:410:ILE:CG2	1:C:411:VAL:H	1.73	1.01
1:A:767:ARG:NH2	1:B:67:GLN:HE22	1.58	1.01
1:B:380:PHE:CZ	1:B:398:MET:CE	2.43	1.01
1:B:431:THR:HG21	1:B:493:CYS:CB	1.90	1.01
1:A:90:ILE:CD1	1:A:90:ILE:HG21	1.89	1.01
1:A:574:THR:HG21	1:A:594:VAL:CG1	1.90	1.01
1:A:1021:PHE:CB	1:A:1025:PHE:CE2	2.34	1.01
1:B:474:ILE:CG2	1:B:475:VAL:H	1.72	1.01
1:A:104:GLN:HE22	1:B:109:ASN:HB3	1.24	1.00
1:A:174:ASP:HA	1:B:70:ASN:ND2	1.76	1.00
1:A:857:TYR:C	1:A:857:TYR:CD1	2.38	1.00
1:B:150:THR:H	1:B:153:ASP:HB3	1.22	1.00
1:A:117:LEU:CD1	1:C:124:GLN:O	2.09	1.00
1:A:189:ASN:HB2	1:A:779:TYR:CE2	1.94	1.00
1:B:380:PHE:O	1:B:382:VAL:N	1.94	1.00
1:C:5:PHE:CE2	1:C:11:PHE:HD2	1.77	1.00
1:C:114:ALA:O	1:C:118:LEU:CD1	2.10	1.00
1:C:410:ILE:O	1:C:412:VAL:N	1.92	1.00
1:C:410:ILE:HG22	1:C:411:VAL:H	0.87	1.00
1:B:225:VAL:HG22	1:C:781:MET:CE	1.91	1.00
1:B:324:VAL:HG23	1:B:326:PRO:HD2	1.44	1.00
1:B:763:ILE:N	1:B:763:ILE:CD1	2.23	1.00
1:B:780:ARG:CB	1:B:780:ARG:NH1	2.24	1.00
1:C:423:GLU:O	1:C:426:PRO:CD	2.09	1.00
1:A:66:GLU:O	1:A:67:GLN:C	2.02	1.00
1:A:112:GLN:CG	1:C:112:GLN:NE2	2.22	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:894:SER:HB3	1:A:897:ILE:HD13	1.40	1.00
1:B:3:ASN:HA	1:B:6:ILE:HG13	1.41	1.00
1:B:340:VAL:CG1	1:B:395:MET:HB3	1.90	1.00
1:C:44:THR:HG22	1:C:91:THR:OG1	1.62	1.00
1:C:966:ASP:OD1	1:C:969:ARG:HD3	1.60	1.00
1:A:841:MET:HE1	1:A:863:SER:OG	1.60	1.00
1:B:514:GLY:HA2	1:B:517:ASN:ND2	1.77	1.00
1:C:211:ASN:ND2	1:C:240:LEU:H	1.59	1.00
1:B:915:ALA:CB	1:B:1009:GLY:HA3	1.92	1.00
1:C:324:VAL:HG23	1:C:325:TYR:N	1.77	1.00
1:C:58:GLN:HG2	1:C:62:THR:HB	1.44	0.99
1:C:190:PRO:HD3	1:C:779:TYR:HD1	0.87	0.99
1:A:72:ILE:HD11	1:A:110:LYS:HG2	1.44	0.99
1:C:118:LEU:N	1:C:118:LEU:CD1	2.24	0.99
1:B:780:ARG:HB3	1:B:780:ARG:HH11	1.26	0.99
1:B:15:ILE:O	1:B:19:ILE:HD12	1.60	0.99
1:B:740:GLY:O	1:B:794:ALA:N	1.94	0.99
1:B:946:VAL:HG13	1:B:1026:PHE:CD1	1.96	0.99
1:B:100:ALA:O	1:B:103:ALA:N	1.94	0.99
1:C:58:GLN:OE1	1:C:82:SER:CB	2.10	0.99
1:A:234:ILE:O	1:B:52:ALA:CB	2.10	0.99
1:B:564:LEU:HB3	1:B:565:PRO:HD2	1.42	0.99
1:C:847:LEU:O	1:C:850:LYS:HG2	1.60	0.99
1:B:1007:VAL:O	1:B:1007:VAL:CG1	2.07	0.99
1:C:324:VAL:HG23	1:C:325:TYR:H	1.25	0.99
1:A:778:LYS:HG2	1:A:779:TYR:CE1	1.96	0.99
1:A:659:LYS:HG2	1:A:660:ASP:H	1.28	0.98
1:A:78:MET:O	1:A:78:MET:HG2	1.62	0.98
1:A:394:THR:HG23	1:A:395:MET:CE	1.93	0.98
1:B:226:LYS:HA	1:B:226:LYS:CE	1.92	0.98
1:B:1018:ALA:O	1:B:1022:VAL:HG22	1.63	0.98
1:C:346:GLU:OE1	1:C:988:PRO:HG3	1.62	0.98
1:B:325:TYR:O	1:B:326:PRO:O	1.81	0.98
1:C:699:ARG:HG3	1:C:700:ASN:N	1.78	0.98
1:A:105:VAL:CG1	1:A:106:GLN:N	2.08	0.98
1:A:298:ASN:HD22	1:A:298:ASN:C	1.70	0.98
1:A:713:LEU:O	1:A:714:THR:CG2	2.11	0.98
1:A:813:SER:CB	1:A:816:LEU:CD2	2.41	0.98
1:C:279:ALA:CB	1:C:612:VAL:HG22	1.93	0.98
1:C:410:ILE:HG22	1:C:411:VAL:N	1.69	0.98
1:B:780:ARG:CB	1:B:780:ARG:HH11	1.76	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:426:PRO:HB3	1:B:430:ALA:CB	1.94	0.98
1:C:252:LYS:O	1:C:260:VAL:CG2	2.10	0.98
1:A:575:MET:HB2	1:A:664:PHE:HB2	1.46	0.98
1:B:790:TYR:HE1	1:B:800:PRO:HB3	1.28	0.97
1:C:657:GLN:HA	1:C:657:GLN:HE21	1.17	0.97
1:A:559:LEU:HD12	1:A:560:PRO:CD	1.94	0.97
1:B:588:GLN:O	1:B:592:ASN:ND2	1.96	0.97
1:A:498:LYS:O	1:A:498:LYS:NZ	1.97	0.97
1:B:474:ILE:CG2	1:B:475:VAL:N	2.26	0.97
1:B:240:LEU:CD2	1:B:245:GLU:CB	2.41	0.97
1:B:560:PRO:O	1:B:923:ASN:HB3	1.65	0.97
1:B:760:ASN:O	1:B:771:VAL:HB	1.61	0.97
1:C:143:ILE:HD13	1:C:144:ASN:H	1.30	0.97
1:C:189:ASN:HD22	1:C:190:PRO:CD	1.77	0.97
1:A:2:PRO:O	1:A:6:ILE:HG23	1.64	0.97
1:A:314:GLU:N	1:A:315:PRO:CD	2.27	0.97
1:B:518:ARG:HA	1:B:521:GLU:HB2	1.46	0.97
1:A:182:TYR:HB3	1:A:270:LEU:HD13	1.46	0.97
1:B:410:ILE:CG2	1:B:978:THR:HG22	1.95	0.97
1:B:441:ALA:HB2	1:B:947:GLU:HG2	1.45	0.97
1:A:45:ILE:HG22	1:A:45:ILE:O	1.60	0.97
1:A:813:SER:CB	1:A:816:LEU:HD23	1.94	0.97
1:B:337:ILE:O	1:B:337:ILE:CG2	2.13	0.97
1:A:78:MET:N	1:A:820:ASN:OD1	1.97	0.97
1:A:482:VAL:HG12	1:A:483:LEU:H	1.29	0.96
1:A:560:PRO:HB2	1:A:922:THR:CG2	1.94	0.96
1:B:360:GLN:O	1:B:361:ASN:HB2	1.64	0.96
1:B:380:PHE:CD1	1:B:398:MET:HE1	1.99	0.96
1:A:107:VAL:CG1	1:A:108:GLN:N	2.26	0.96
1:A:628:PHE:HD2	1:A:628:PHE:H	1.13	0.96
1:B:478:MET:HA	1:B:478:MET:CE	1.95	0.96
1:B:775:SER:HB3	1:B:780:ARG:HD3	1.47	0.96
1:C:568:ASP:OD1	1:C:634:TRP:CE3	2.18	0.96
1:C:686:ASP:OD1	1:C:690:LEU:HB2	1.64	0.96
1:A:575:MET:O	1:A:663:VAL:HA	1.65	0.96
1:C:946:VAL:HG22	1:C:1026:PHE:CZ	2.00	0.96
1:A:90:ILE:CD1	1:A:90:ILE:CG2	2.43	0.96
1:B:200:PRO:CD	1:B:749:THR:HG22	1.95	0.96
1:C:146:ASP:HB2	1:C:148:THR:HG23	1.45	0.96
1:C:231:ASN:ND2	1:C:232:ALA:N	2.13	0.96
1:B:945:ILE:HG21	1:B:1026:PHE:HE2	1.21	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:20:MET:O	1:C:377:LEU:HD12	1.66	0.96
1:A:100:ALA:HB1	1:A:131:LYS:HE3	1.46	0.96
1:B:115:MET:HA	1:B:118:LEU:HG	1.46	0.96
1:B:447:MET:SD	1:B:887:CYS:HB3	2.05	0.96
1:B:564:LEU:CB	1:B:565:PRO:HD2	1.91	0.96
1:C:3:ASN:HA	1:C:6:ILE:HG22	1.47	0.96
1:B:219:LEU:CD2	1:B:234:ILE:HG12	1.96	0.96
1:B:259:ARG:HG3	1:B:259:ARG:HH11	1.30	0.96
1:A:110:LYS:NZ	1:A:110:LYS:CD	2.27	0.96
1:A:685:ILE:CG2	1:A:685:ILE:HB	1.93	0.96
1:A:72:ILE:HA	1:A:106:GLN:HE22	1.30	0.95
1:B:983:ILE:CD1	1:B:1012:VAL:HG23	1.96	0.95
1:C:380:PHE:HE1	1:C:398:MET:SD	1.88	0.95
1:A:926:TYR:HE1	1:A:999:ALA:HB2	1.31	0.95
1:A:764:ASP:HB3	1:A:769:LYS:HD2	1.47	0.95
1:C:699:ARG:HG2	1:C:699:ARG:NH1	1.68	0.95
1:A:617:PHE:HB2	2:A:2002:DM2:H1	1.45	0.95
1:B:200:PRO:HD2	1:B:749:THR:CG2	1.96	0.95
1:A:42:ALA:HB3	1:A:132:SER:HB3	1.45	0.95
1:A:713:LEU:HB2	1:A:832:ALA:HA	1.47	0.95
1:B:522:LYS:O	1:B:524:THR:N	1.99	0.95
1:C:132:SER:OG	1:C:133:SER:N	1.79	0.95
1:A:821:GLY:O	1:A:822:LEU:HB3	1.64	0.95
1:A:857:TYR:CD1	1:A:857:TYR:O	2.20	0.95
1:B:228:GLN:OE1	1:C:781:MET:CE	2.15	0.95
1:C:713:LEU:HB3	1:C:832:ALA:O	1.67	0.95
1:A:62:THR:O	1:A:63:GLN:O	1.84	0.95
1:C:699:ARG:HD2	1:C:703:LEU:HD11	1.46	0.95
1:A:621:GLY:O	1:A:623:ASN:N	1.99	0.95
1:C:5:PHE:HE2	1:C:11:PHE:HD2	0.95	0.95
1:A:168:ARG:O	1:A:168:ARG:HG3	1.66	0.94
1:B:865:GLN:HE21	1:B:868:LEU:HD22	1.31	0.94
1:C:684:LEU:HD12	1:C:685:ILE:N	1.82	0.94
1:C:60:THR:CG2	1:C:61:VAL:HG23	1.96	0.94
1:C:189:ASN:ND2	1:C:190:PRO:HD2	1.82	0.94
1:A:527:TYR:OH	1:A:968:VAL:HG11	1.67	0.94
1:A:277:ILE:HG23	1:A:277:ILE:O	1.65	0.94
1:A:400:LEU:HD23	1:A:1003:VAL:HG22	1.50	0.94
1:C:166:ILE:HG21	1:C:175:VAL:HG21	0.96	0.94
1:C:393:LEU:CD1	1:C:466:ILE:CG2	2.46	0.94
1:A:312:LYS:O	1:A:313:MET:HB3	1.67	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:359:LEU:CD2	1:A:417:GLU:HG2	1.97	0.94
1:A:893:GLU:HG3	1:C:10:ILE:CD1	1.97	0.94
1:C:58:GLN:HG2	1:C:62:THR:CB	1.96	0.94
1:C:184:MET:HE2	1:C:185:ARG:H	1.29	0.94
1:B:45:ILE:HD11	1:B:69:MET:HE3	1.47	0.94
1:B:463:THR:CG2	1:B:869:SER:HB2	1.95	0.94
1:A:382:VAL:HG11	1:A:476:SER:CB	1.96	0.94
1:B:380:PHE:CZ	1:B:398:MET:HE1	1.99	0.94
1:C:102:ILE:HG22	1:C:103:ALA:H	1.13	0.94
1:A:31:PRO:HB2	1:A:389:SER:HB2	1.48	0.94
1:A:144:ASN:HD21	1:A:146:ASP:HB2	1.29	0.94
1:B:563:PHE:O	1:B:564:LEU:HG	1.67	0.94
1:A:626:ILE:O	1:A:626:ILE:HG23	1.66	0.94
1:B:357:LEU:O	1:B:357:LEU:CD1	2.14	0.94
1:B:380:PHE:CE1	1:B:398:MET:HE2	2.01	0.94
1:C:185:ARG:HB2	1:C:269:GLU:O	1.65	0.94
1:C:946:VAL:HG13	1:C:1026:PHE:HE1	1.28	0.94
1:C:966:ASP:HA	1:C:969:ARG:HG2	1.46	0.94
1:A:32:VAL:HG22	1:A:390:ILE:HB	1.49	0.94
1:B:94:PHE:HB2	1:B:98:THR:HG21	1.48	0.94
1:B:280:GLU:CB	1:B:284:GLN:O	2.14	0.94
1:C:684:LEU:HD12	1:C:684:LEU:C	1.92	0.94
1:C:966:ASP:HA	1:C:969:ARG:CG	1.98	0.94
1:A:277:ILE:O	1:A:277:ILE:CG2	2.16	0.93
1:B:136:PHE:HD2	1:B:290:GLY:O	1.49	0.93
1:B:372:VAL:HG12	1:B:373:PRO:CD	1.97	0.93
1:B:713:LEU:HD23	1:B:713:LEU:N	1.80	0.93
1:A:482:VAL:HG12	1:A:483:LEU:N	1.81	0.93
1:A:683:GLU:OE2	1:A:819:TYR:CD1	2.21	0.93
1:B:356:TYR:C	1:B:358:PHE:H	1.76	0.93
1:C:188:MET:HE2	1:C:203:VAL:HG21	1.51	0.93
1:B:566:ASP:O	1:B:567:GLU:O	1.86	0.93
1:A:131:LYS:O	1:A:132:SER:O	1.86	0.93
1:C:634:TRP:CD1	1:C:634:TRP:H	1.71	0.93
1:C:946:VAL:HG22	1:C:1026:PHE:HZ	1.32	0.93
1:A:476:SER:O	1:A:480:LEU:HB2	1.67	0.93
1:C:238:THR:HG22	1:C:239:ARG:CA	1.98	0.93
1:A:310:LEU:HD12	1:A:325:TYR:OH	1.68	0.93
1:A:344:LEU:CD2	1:A:402:ILE:HD13	1.98	0.93
1:A:386:PHE:O	1:A:388:PHE:HD1	1.48	0.93
1:B:972:LEU:CD1	1:B:976:LEU:HD21	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:309:GLU:O	1:C:312:LYS:N	2.00	0.93
1:A:375:VAL:HG23	1:A:484:VAL:HG11	1.51	0.93
1:A:443:VAL:CG1	1:A:444:GLY:H	1.80	0.93
1:C:310:LEU:HD23	1:C:323:ILE:HD13	1.48	0.93
1:C:758:TYR:N	1:C:758:TYR:CD2	2.22	0.93
1:C:824:SER:OG	1:C:825:MET:N	1.90	0.93
1:B:16:ALA:HB1	1:B:374:VAL:HG21	1.50	0.93
1:A:447:MET:CB	1:A:887:CYS:SG	2.56	0.93
1:A:685:ILE:CD1	1:A:687:GLN:HE21	1.80	0.93
1:A:108:GLN:CG	1:B:112:GLN:OE1	2.15	0.92
1:A:208:LYS:HE3	1:A:759:VAL:HG13	1.50	0.92
1:A:736:ALA:O	1:A:741:VAL:HG12	1.70	0.92
1:A:43:VAL:HG11	1:A:107:VAL:HG21	1.49	0.92
1:B:225:VAL:HG22	1:C:781:MET:HE2	0.95	0.92
1:C:290:GLY:O	1:C:291:ILE:HG12	1.68	0.92
1:A:578:LEU:CD1	1:A:587:THR:HG23	1.97	0.92
1:A:30:LEU:HD21	1:A:384:ALA:CB	1.99	0.92
1:A:191:ASN:C	1:A:193:LEU:H	1.77	0.92
1:C:527:TYR:CE2	1:C:972:LEU:HD12	2.04	0.92
1:A:406:VAL:O	1:A:407:ASP:C	2.06	0.92
1:A:689:GLY:O	1:A:690:LEU:C	2.13	0.92
1:A:832:ALA:O	1:A:833:PRO:C	2.11	0.92
1:C:114:ALA:O	1:C:118:LEU:HD13	1.68	0.92
1:C:195:LYS:HG2	1:C:196:PHE:H	1.28	0.92
1:A:394:THR:HG23	1:A:395:MET:HE2	1.50	0.92
1:A:729:ILE:HG22	1:A:730:ASP:N	1.81	0.92
1:A:949:ALA:HB1	1:A:1026:PHE:HE2	1.17	0.92
1:B:431:THR:CG2	1:B:493:CYS:CB	2.48	0.92
1:A:705:GLU:HA	1:A:705:GLU:OE2	1.66	0.92
1:A:719:ASN:HB2	1:A:828:LEU:HD21	1.47	0.92
1:A:781:MET:HE3	1:C:228:GLN:CD	1.95	0.92
1:B:380:PHE:O	1:B:381:ALA:C	2.13	0.92
1:B:411:VAL:O	1:B:438:ILE:HD13	1.69	0.92
1:A:1021:PHE:O	1:A:1024:VAL:HB	1.70	0.92
1:C:77:TYR:CZ	1:C:860:THR:HG22	2.04	0.92
1:C:447:MET:O	1:C:447:MET:HE3	1.70	0.92
1:C:912:ALA:C	1:C:914:LEU:H	1.78	0.92
1:A:767:ARG:O	1:A:769:LYS:HG3	1.70	0.92
1:C:184:MET:CG	1:C:246:PHE:CE1	2.53	0.92
1:A:615:PHE:CE1	1:A:617:PHE:HB2	2.05	0.91
1:C:679:GLY:HA2	1:C:830:GLN:HA	1.47	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:250:LEU:HD11	1:B:734:GLU:HB3	1.49	0.91
1:B:104:GLN:C	1:B:104:GLN:NE2	2.28	0.91
1:B:453:PHE:HZ	1:B:933:THR:CG2	1.82	0.91
1:B:949:ALA:HB3	1:B:1030:ARG:HH22	1.35	0.91
1:A:389:SER:O	1:A:394:THR:HG21	1.70	0.91
1:A:119:PRO:O	1:A:121:GLU:N	2.03	0.91
1:A:313:MET:C	1:A:315:PRO:HD2	1.95	0.91
1:A:739:LEU:N	1:A:739:LEU:HD23	1.85	0.91
1:A:822:LEU:HB2	1:A:823:PRO:CD	2.01	0.91
1:B:555:LEU:H	1:B:555:LEU:HD12	1.34	0.91
1:A:5:PHE:CD2	1:A:12:ALA:HB2	2.05	0.91
1:A:560:PRO:CB	1:A:922:THR:HG22	2.00	0.91
1:B:924:ASP:O	1:B:928:GLN:HG3	1.69	0.91
1:B:18:ILE:HG22	1:B:19:ILE:H	1.30	0.91
1:B:790:TYR:CD1	1:B:800:PRO:HB3	2.04	0.91
1:B:895:TRP:O	1:B:899:PHE:HE2	1.52	0.91
1:B:949:ALA:CB	1:B:1030:ARG:HH22	1.83	0.91
1:A:488:LEU:O	1:A:492:LEU:HB2	1.68	0.91
1:A:495:THR:HG22	1:A:495:THR:O	1.68	0.91
1:B:409:ALA:HB2	1:B:485:ALA:HB2	1.49	0.91
1:C:156:ASP:O	1:C:160:ALA:N	2.02	0.91
1:C:423:GLU:OE2	1:C:426:PRO:HG2	1.71	0.91
1:B:579:PRO:O	1:B:580:ALA:O	1.89	0.91
1:A:223:PRO:HD3	1:B:275:TYR:CD2	2.06	0.91
1:A:828:LEU:N	1:A:828:LEU:HD23	1.86	0.91
1:C:99:ASP:OD2	1:C:99:ASP:C	2.13	0.91
1:A:61:VAL:CG2	1:A:118:LEU:HD22	2.01	0.91
1:A:937:LEU:HD12	1:A:1011:MET:SD	2.11	0.91
1:A:1011:MET:HA	1:A:1011:MET:HE3	1.51	0.91
1:B:240:LEU:HB3	1:B:246:PHE:CE2	2.06	0.91
1:B:523:SER:HA	1:B:526:HIS:NE2	1.85	0.91
1:B:671:ILE:HG21	1:B:676:THR:HG23	1.51	0.91
1:A:314:GLU:N	1:A:315:PRO:HD2	1.84	0.90
1:C:530:SER:HB2	1:C:534:ILE:CD1	2.01	0.90
1:A:361:ASN:HD22	1:A:364:ALA:CB	1.84	0.90
1:A:843:LEU:HA	1:A:846:GLN:NE2	1.85	0.90
1:B:763:ILE:N	1:B:763:ILE:HD13	1.86	0.90
1:C:197:GLN:CA	1:C:798:MET:HE2	1.99	0.90
1:C:761:ASP:OD1	1:C:770:LYS:NZ	2.04	0.90
1:A:112:GLN:HG3	1:C:112:GLN:CD	1.97	0.90
1:B:193:LEU:HB3	1:B:198:LEU:O	1.72	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:111:LEU:O	1:A:113:LEU:N	2.04	0.90
1:A:386:PHE:O	1:A:388:PHE:CD1	2.24	0.90
1:B:990:VAL:CG1	1:B:1005:THR:HG22	2.01	0.90
1:C:115:MET:HE2	1:C:118:LEU:CD2	1.96	0.90
1:C:44:THR:HG22	1:C:91:THR:CB	2.00	0.90
1:A:515:TRP:NE1	1:A:516:PHE:CE1	2.39	0.90
1:A:779:TYR:N	1:A:779:TYR:HD1	1.69	0.90
1:B:356:TYR:O	1:B:358:PHE:N	2.05	0.90
1:C:6:ILE:HD11	1:C:494:ALA:HB2	1.51	0.90
1:A:695:LEU:CG	1:A:825:MET:HE3	2.01	0.90
1:A:986:VAL:C	1:A:988:PRO:CD	2.45	0.90
1:B:49:TYR:HE2	1:B:125:GLN:HB3	1.37	0.90
1:C:138:MET:HE2	1:C:306:ILE:CD1	2.00	0.90
1:C:225:VAL:O	1:C:226:LYS:C	2.13	0.90
1:C:393:LEU:CD1	1:C:466:ILE:HG23	2.02	0.90
1:C:397:GLY:O	1:C:474:ILE:HD13	1.71	0.90
1:A:244:GLU:O	1:A:246:PHE:N	2.05	0.90
1:B:356:TYR:O	1:B:359:LEU:N	2.03	0.90
1:B:416:VAL:HG23	1:B:434:SER:CB	2.00	0.90
1:C:252:LYS:O	1:C:260:VAL:HG23	1.70	0.90
1:C:612:VAL:O	1:C:612:VAL:HG12	1.72	0.90
1:C:725:PRO:CD	1:C:811:TYR:HE2	1.82	0.90
1:A:615:PHE:CD1	1:A:615:PHE:C	2.49	0.89
1:A:717:ARG:O	1:A:827:ILE:HA	1.71	0.89
1:B:177:LEU:HD12	1:B:178:PHE:H	1.29	0.89
1:C:552:MET:SD	1:C:909:VAL:CG1	2.58	0.89
1:A:111:LEU:CD1	1:A:111:LEU:HG	2.01	0.89
1:A:767:ARG:HH21	1:B:67:GLN:HE22	1.10	0.89
1:C:65:ILE:CD1	1:C:111:LEU:HD11	2.01	0.89
1:B:240:LEU:HD21	1:B:245:GLU:CB	2.00	0.89
1:C:80:SER:HB3	1:C:90:ILE:HG12	1.54	0.89
1:C:184:MET:HG2	1:C:246:PHE:CE1	2.06	0.89
1:A:104:GLN:HE21	1:B:109:ASN:CG	1.80	0.89
1:A:151:GLN:HB3	1:A:152:GLU:OE2	1.73	0.89
1:A:579:PRO:O	1:A:580:ALA:O	1.91	0.89
1:A:986:VAL:O	1:A:988:PRO:HD2	1.71	0.89
1:B:157:TYR:CA	1:B:161:ASN:ND2	2.35	0.89
1:C:682:PHE:CE2	1:C:702:LEU:HD11	2.06	0.89
1:A:72:ILE:HG22	1:A:73:ASP:OD2	1.71	0.89
1:A:324:VAL:C	1:A:325:TYR:HD1	1.80	0.89
1:C:231:ASN:C	1:C:231:ASN:ND2	2.20	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:713:LEU:HB2	1:A:832:ALA:CA	2.01	0.89
1:C:393:LEU:HD13	1:C:466:ILE:HG22	1.55	0.89
1:C:623:ASN:H	1:C:623:ASN:HD22	1.20	0.89
1:C:645:GLU:O	1:C:648:THR:HG22	1.72	0.89
1:C:949:ALA:HB2	1:C:967:ALA:CB	2.02	0.89
1:A:418:ARG:HD3	1:A:970:MET:HG3	1.51	0.89
1:A:611:ALA:HB2	1:A:627:ALA:CB	2.03	0.89
1:C:463:THR:HG22	1:C:464:GLY:N	1.87	0.89
1:A:578:LEU:HD12	1:A:587:THR:CG2	2.01	0.89
1:B:13:TRP:HH2	1:B:370:ILE:HD13	1.36	0.89
1:B:547:ILE:HG22	1:B:548:ILE:N	1.81	0.89
1:C:354:VAL:HG21	1:C:980:LEU:O	1.73	0.89
1:C:399:VAL:HG12	1:C:400:LEU:H	1.34	0.89
1:C:450:SER:N	1:C:478:MET:HE1	1.88	0.89
1:C:741:VAL:CG1	1:C:791:VAL:HG12	2.02	0.89
1:A:76:MET:HG2	1:A:95:GLU:OE2	1.71	0.89
1:A:573:MET:O	1:A:665:ALA:HA	1.72	0.89
1:C:43:VAL:HA	1:C:130:GLU:O	1.73	0.89
1:C:79:SER:HA	1:C:818:ARG:O	1.73	0.89
1:A:674:LEU:CD2	1:A:675:GLY:H	1.85	0.88
1:A:781:MET:CE	1:C:228:GLN:CD	2.45	0.88
1:B:115:MET:HE1	1:B:127:VAL:CG1	2.02	0.88
1:C:528:THR:HG21	1:C:969:ARG:HB3	1.53	0.88
1:C:682:PHE:HE2	1:C:702:LEU:HD11	1.35	0.88
1:A:105:VAL:O	1:A:108:GLN:CB	2.20	0.88
1:B:531:VAL:CG1	1:B:535:LEU:HD11	2.02	0.88
1:A:103:ALA:O	1:A:106:GLN:CB	2.19	0.88
1:A:228:GLN:HE22	1:B:781:MET:HB3	0.77	0.88
1:B:92:LEU:HD22	1:B:92:LEU:N	1.88	0.88
1:B:393:LEU:HD11	1:B:466:ILE:CG2	2.02	0.88
1:B:431:THR:CG2	1:B:493:CYS:HB2	2.04	0.88
1:B:648:THR:O	1:B:652:THR:HG22	1.74	0.88
1:C:34:GLN:CB	1:C:333:VAL:HG21	2.03	0.88
1:C:819:TYR:OH	1:C:860:THR:HG23	1.73	0.88
1:C:164:ASP:OD2	1:C:168:ARG:NH2	2.07	0.88
1:C:1024:VAL:O	1:C:1028:VAL:HG23	1.74	0.88
1:A:626:ILE:O	1:A:626:ILE:CG2	2.20	0.88
1:B:177:LEU:HD12	1:B:177:LEU:C	1.92	0.88
1:C:20:MET:HG3	1:C:374:VAL:CG2	2.04	0.88
1:A:313:MET:CA	1:A:315:PRO:HD2	2.03	0.88
1:A:986:VAL:HG12	1:A:991:ILE:CD1	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:382:VAL:HG11	1:C:476:SER:HB2	1.53	0.88
1:A:235:ILE:O	1:A:235:ILE:HG22	1.73	0.88
1:A:298:ASN:HD21	1:A:300:LEU:HB2	1.39	0.88
1:A:823:PRO:CG	1:A:823:PRO:N	2.36	0.88
1:C:108:GLN:HG3	1:C:129:VAL:CG2	2.03	0.88
1:A:167:SER:CB	1:A:175:VAL:HG22	2.04	0.88
1:A:780:ARG:NH2	1:C:223:PRO:HD2	1.88	0.88
1:A:756:GLY:HA2	1:A:774:MET:HB2	1.54	0.88
1:A:891:LEU:O	1:A:892:TYR:HD2	1.57	0.88
1:B:404:LEU:HD23	1:B:449:LEU:CD1	2.04	0.88
1:C:166:ILE:HG22	1:C:175:VAL:HG21	1.55	0.88
1:A:185:ARG:HG2	1:A:271:GLY:HA3	1.56	0.87
1:A:674:LEU:HD22	1:A:675:GLY:N	1.89	0.87
1:B:74:ASN:HD22	1:B:98:THR:HB	1.35	0.87
1:B:131:LYS:O	1:B:132:SER:HB3	1.74	0.87
1:B:671:ILE:O	1:B:673:GLU:N	2.07	0.87
1:B:918:PHE:HD1	1:B:919:ARG:HD3	1.39	0.87
1:B:990:VAL:HG13	1:B:1005:THR:CG2	2.04	0.87
1:C:685:ILE:HG21	1:C:687:GLN:OE1	1.73	0.87
1:A:351:VAL:O	1:A:355:MET:HB2	1.73	0.87
1:C:188:MET:CE	1:C:203:VAL:HG21	2.04	0.87
1:C:400:LEU:HD12	1:C:933:THR:OG1	1.74	0.87
1:B:200:PRO:CA	1:B:203:VAL:HG23	2.04	0.87
1:C:74:ASN:ND2	1:C:98:THR:HG21	1.89	0.87
1:C:741:VAL:CG1	1:C:791:VAL:CG1	2.53	0.87
1:C:894:SER:HB2	1:C:897:ILE:CD1	2.04	0.87
1:A:108:GLN:HG3	1:B:112:GLN:CD	1.99	0.87
1:A:176:GLN:NE2	2:A:2002:DM2:C10	2.38	0.87
1:A:188:MET:CE	1:A:200:PRO:HB3	2.03	0.87
1:B:694:LYS:HA	1:B:697:GLN:HE21	1.40	0.87
1:B:871:ASN:HD22	1:B:871:ASN:N	1.73	0.87
1:A:965:LEU:O	1:A:969:ARG:CG	2.21	0.87
1:B:90:ILE:HG22	1:B:91:THR:N	1.89	0.87
1:B:533:GLY:O	1:B:537:SER:OG	1.91	0.87
1:C:908:GLY:HA2	1:C:1014:ALA:HB2	1.55	0.87
1:A:615:PHE:HE1	1:A:617:PHE:HB2	1.37	0.87
1:A:901:VAL:O	1:A:904:VAL:CG2	2.23	0.87
1:B:380:PHE:CZ	1:B:398:MET:HE2	2.08	0.87
1:A:152:GLU:H	1:A:152:GLU:CD	1.81	0.87
1:A:371:ALA:O	1:A:372:VAL:O	1.92	0.87
1:A:690:LEU:HD11	1:A:854:GLY:HA3	0.91	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:10:ILE:HD12	1:C:893:GLU:O	1.73	0.87
1:B:13:TRP:CZ3	1:B:488:LEU:HD11	2.10	0.87
1:B:380:PHE:HE1	1:B:398:MET:CE	1.82	0.87
1:C:545:TYR:CE2	1:C:1025:PHE:CZ	2.63	0.87
1:C:715:SER:O	1:C:717:ARG:NH1	2.07	0.87
1:A:323:ILE:HD13	1:A:323:ILE:H	1.39	0.86
1:A:843:LEU:C	1:A:843:LEU:HD22	2.00	0.86
1:B:419:VAL:O	1:B:426:PRO:HG3	1.72	0.86
1:B:472:ILE:HG23	1:B:473:THR:N	1.90	0.86
1:C:83:ASP:OD2	1:C:87:THR:CG2	2.23	0.86
1:A:901:VAL:O	1:A:904:VAL:HG23	1.75	0.86
1:B:372:VAL:HB	1:B:373:PRO:HD2	1.56	0.86
1:C:365:THR:C	1:C:367:ILE:H	1.82	0.86
1:C:532:GLY:O	1:C:535:LEU:HD23	1.74	0.86
1:C:545:TYR:CE2	1:C:1025:PHE:CE1	2.62	0.86
1:C:1024:VAL:HG12	1:C:1028:VAL:HG21	1.57	0.86
1:A:72:ILE:HA	1:A:106:GLN:NE2	1.90	0.86
1:A:348:ILE:HD11	1:A:373:PRO:HD3	1.57	0.86
1:C:545:TYR:HE2	1:C:1025:PHE:CZ	1.92	0.86
1:C:527:TYR:CD2	1:C:972:LEU:CD1	2.58	0.86
1:C:830:GLN:HE21	1:C:832:ALA:CB	1.86	0.86
1:B:185:ARG:HH11	1:B:185:ARG:HG3	1.38	0.86
1:B:986:VAL:CG1	1:B:990:VAL:HG23	2.02	0.86
1:C:30:LEU:CD2	1:C:384:ALA:CB	2.43	0.86
1:A:108:GLN:O	1:A:109:ASN:C	2.08	0.86
1:B:602:GLU:C	1:B:604:ASN:H	1.79	0.86
1:A:115:MET:HB2	1:A:116:PRO:CD	2.05	0.86
1:A:695:LEU:HG	1:A:825:MET:CE	2.03	0.86
1:B:421:ALA:C	1:B:422:GLU:OE2	2.19	0.86
1:B:547:ILE:CG2	1:B:548:ILE:H	1.88	0.86
1:B:952:LEU:O	1:B:954:ASP:N	2.08	0.86
1:A:513:PHE:HD1	1:A:517:ASN:OD1	1.58	0.86
1:C:456:MET:O	1:C:458:PHE:N	2.09	0.86
1:C:726:GLN:O	1:C:810:GLU:O	1.94	0.86
1:A:968:VAL:CG2	1:A:1023:PRO:HG3	2.05	0.86
1:C:151:GLN:O	1:C:152:GLU:O	1.93	0.86
1:C:399:VAL:HG12	1:C:400:LEU:CD2	2.06	0.86
1:A:927:PHE:C	1:A:927:PHE:CD2	2.54	0.86
1:C:190:PRO:CD	1:C:779:TYR:HD1	1.78	0.86
1:A:139:VAL:HG23	1:A:290:GLY:HA2	1.56	0.85
1:A:193:LEU:HD12	1:A:265:VAL:HG11	1.55	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:574:THR:HG21	1:A:594:VAL:HG11	1.55	0.85
1:A:581:GLY:O	1:A:582:ALA:O	1.94	0.85
1:B:668:LEU:HB3	1:B:676:THR:CG2	2.06	0.85
1:C:42:ALA:HB2	1:C:93:THR:HG23	1.55	0.85
1:C:138:MET:HE2	1:C:306:ILE:HG21	1.56	0.85
1:A:72:ILE:CD1	1:A:110:LYS:HG2	2.06	0.85
1:A:606:VAL:HG22	1:A:629:VAL:HG11	1.58	0.85
1:A:957:GLY:O	1:A:959:GLY:N	2.07	0.85
1:B:1:MET:CA	1:B:3:ASN:OD1	2.25	0.85
1:B:585:GLU:O	1:B:588:GLN:N	2.09	0.85
1:C:64:VAL:HG12	1:C:65:ILE:N	1.91	0.85
1:C:423:GLU:HB3	1:C:426:PRO:HD2	0.92	0.85
1:C:463:THR:O	1:C:466:ILE:HG12	1.74	0.85
1:C:559:LEU:HD13	1:C:917:THR:HG23	1.58	0.85
1:A:176:GLN:HE22	2:A:2002:DM2:H10	1.39	0.85
1:B:225:VAL:O	1:B:227:GLY:N	2.09	0.85
1:B:157:TYR:CG	1:B:161:ASN:ND2	2.44	0.85
1:B:228:GLN:OE1	1:C:781:MET:HB3	1.75	0.85
1:A:349:ILE:CG2	1:A:350:LEU:HD23	2.05	0.85
1:B:331:PRO:CD	1:B:332:PHE:N	2.35	0.85
1:A:615:PHE:HE1	2:A:2002:DM2:H1	1.37	0.85
1:A:650:ARG:HH11	1:A:650:ARG:HG3	1.39	0.85
1:B:45:ILE:HG23	1:B:129:VAL:CG2	2.06	0.85
1:B:964:THR:HG22	1:B:965:LEU:HD22	1.55	0.85
1:B:340:VAL:CG2	1:B:396:PHE:HE1	1.87	0.85
1:C:415:ASN:OD1	1:C:434:SER:HB2	1.75	0.85
1:B:49:TYR:CE2	1:B:122:VAL:CA	2.59	0.85
1:B:416:VAL:HG21	1:B:431:THR:HA	1.59	0.85
1:C:844:MET:O	1:C:847:LEU:HD12	1.76	0.85
1:A:572:PHE:HE1	1:A:629:VAL:HB	1.41	0.85
1:A:952:LEU:HD12	1:A:963:ALA:CB	2.07	0.85
1:B:355:MET:CE	1:B:369:THR:CG2	2.54	0.85
1:C:195:LYS:O	1:C:197:GLN:N	2.10	0.85
1:C:461:GLY:CA	1:C:869:SER:HB2	2.07	0.85
1:A:785:ASP:C	1:A:787:GLY:H	1.83	0.84
1:B:235:ILE:CD1	1:C:726:GLN:CD	2.49	0.84
1:C:74:ASN:HD22	1:C:98:THR:HG21	1.42	0.84
1:A:159:ALA:HB2	1:A:177:LEU:HD11	1.59	0.84
1:C:439:GLN:C	1:C:441:ALA:H	1.85	0.84
1:C:817:GLU:O	1:C:818:ARG:HG2	1.77	0.84
1:A:104:GLN:O	1:A:105:VAL:C	2.19	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:13:TRP:HZ3	1:B:488:LEU:HD11	1.41	0.84
1:B:680:PHE:O	1:B:828:LEU:HD13	1.77	0.84
1:C:49:TYR:O	1:C:52:ALA:HB3	1.76	0.84
1:C:161:ASN:HB3	1:C:162:MET:CG	2.07	0.84
1:A:779:TYR:N	1:A:779:TYR:CD1	2.41	0.84
1:B:192:GLU:HA	1:B:192:GLU:OE2	1.76	0.84
1:B:224:PRO:O	1:B:224:PRO:CD	2.26	0.84
1:B:634:TRP:CZ3	1:B:637:ARG:NH1	2.44	0.84
1:A:351:VAL:HG11	1:A:368:PRO:HB2	1.57	0.84
1:B:174:ASP:O	1:B:175:VAL:CG2	2.25	0.84
1:B:1022:VAL:HG23	1:B:1023:PRO:HD3	0.85	0.84
1:C:633:ASP:OD1	1:C:634:TRP:CD1	2.31	0.84
1:C:775:SER:HB3	1:C:780:ARG:HD3	1.58	0.84
1:A:517:ASN:ND2	1:A:517:ASN:H	1.71	0.84
1:A:568:ASP:OD1	1:A:634:TRP:CZ3	2.31	0.84
1:A:790:TYR:HD1	1:A:799:VAL:O	1.61	0.84
1:C:170:SER:O	1:C:172:VAL:N	2.10	0.84
1:C:190:PRO:HG3	1:C:789:TRP:CZ2	2.12	0.84
1:C:354:VAL:O	1:C:354:VAL:HG12	1.75	0.84
1:B:291:ILE:HG21	1:B:306:ILE:CD1	2.07	0.84
1:C:189:ASN:ND2	1:C:190:PRO:CD	2.36	0.84
1:A:971:ARG:HE	1:A:974:PRO:HG2	1.40	0.84
1:B:751:GLY:O	1:B:753:ALA:N	2.11	0.84
1:C:44:THR:CG2	1:C:91:THR:OG1	2.26	0.84
1:C:102:ILE:HG22	1:C:103:ALA:CA	2.07	0.84
1:C:919:ARG:CB	1:C:921:LEU:HD23	2.06	0.84
1:A:57:VAL:O	1:A:57:VAL:HG12	1.76	0.84
1:A:298:ASN:ND2	1:A:300:LEU:N	2.24	0.84
1:A:313:MET:H	1:A:315:PRO:CD	1.91	0.84
1:B:934:THR:C	1:B:936:GLY:H	1.86	0.84
1:B:975:ILE:O	1:B:975:ILE:HG22	1.76	0.84
1:C:894:SER:CB	1:C:897:ILE:HD12	2.08	0.84
1:A:12:ALA:O	1:A:488:LEU:HD13	1.77	0.84
1:B:945:ILE:CB	1:B:1026:PHE:CZ	2.61	0.84
1:C:266:ALA:O	1:C:267:LYS:C	2.16	0.84
1:A:279:ALA:HA	1:A:612:VAL:HG12	1.60	0.83
1:C:252:LYS:O	1:C:260:VAL:HG22	1.77	0.83
1:C:450:SER:H	1:C:478:MET:HE1	1.41	0.83
1:C:966:ASP:O	1:C:970:MET:HB2	1.78	0.83
1:A:609:VAL:HG12	1:A:629:VAL:HG22	1.59	0.83
1:B:653:ARG:O	1:B:656:SER:OG	1.95	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:27:ILE:HG12	1:C:380:PHE:HD2	1.40	0.83
1:C:545:TYR:HE2	1:C:1025:PHE:HZ	1.24	0.83
1:C:946:VAL:HG13	1:C:1026:PHE:CE1	2.12	0.83
1:C:1026:PHE:O	1:C:1029:VAL:HB	1.78	0.83
1:C:203:VAL:HG13	1:C:262:LEU:CD1	2.08	0.83
1:C:416:VAL:HG22	1:C:434:SER:OG	1.77	0.83
1:C:965:LEU:O	1:C:969:ARG:HG2	1.78	0.83
1:A:372:VAL:O	1:A:375:VAL:N	2.11	0.83
1:A:443:VAL:HG23	1:A:486:LEU:HD11	1.61	0.83
1:C:848:ALA:HA	1:C:851:LEU:CD1	2.08	0.83
1:A:104:GLN:NE2	1:B:109:ASN:HB3	1.94	0.83
1:A:545:TYR:HB2	1:A:1021:PHE:HE1	1.44	0.83
1:A:594:VAL:HA	1:A:655:PHE:HZ	1.44	0.83
1:A:894:SER:HB2	1:A:897:ILE:HD13	1.58	0.83
1:C:420:MET:HB2	1:C:498:LYS:NZ	1.93	0.83
1:A:225:VAL:O	1:A:226:LYS:C	2.22	0.83
1:A:393:LEU:HD21	1:A:466:ILE:HG23	1.59	0.83
1:B:219:LEU:HD23	1:B:234:ILE:HG12	1.59	0.83
1:B:567:GLU:HB3	1:B:996:GLY:HA2	1.61	0.83
1:B:945:ILE:HB	1:B:1026:PHE:HZ	1.42	0.83
1:A:69:MET:CE	1:A:69:MET:HA	2.08	0.83
1:A:823:PRO:CG	1:A:823:PRO:CA	2.57	0.83
1:C:545:TYR:CZ	1:C:1021:PHE:HB3	2.13	0.83
1:C:940:LYS:HA	1:C:943:ILE:HD12	1.59	0.83
1:C:972:LEU:N	1:C:974:PRO:HD2	1.93	0.83
1:A:221:GLY:H	1:B:622:GLN:HE22	1.27	0.83
1:B:132:SER:O	1:B:132:SER:OG	1.89	0.83
1:B:555:LEU:HA	1:B:558:ARG:HH11	1.42	0.83
1:B:916:ALA:O	1:B:917:THR:C	2.22	0.83
1:B:987:MET:HA	1:B:987:MET:HE3	0.85	0.83
1:C:214:VAL:HG13	1:C:215:ALA:H	1.43	0.83
1:C:908:GLY:CA	1:C:1014:ALA:HB2	2.09	0.83
1:A:152:GLU:OE2	1:A:152:GLU:N	2.12	0.82
1:B:568:ASP:OD1	1:B:644:VAL:HB	1.79	0.82
1:B:957:GLY:O	1:B:958:LYS:O	1.97	0.82
1:C:754:TRP:CZ3	1:C:780:ARG:O	2.32	0.82
1:C:754:TRP:CE3	1:C:780:ARG:HB2	2.14	0.82
1:C:831:ALA:HB2	1:C:840:ALA:HB2	1.61	0.82
1:C:900:SER:HB3	1:C:1029:VAL:HG21	1.61	0.82
1:A:105:VAL:O	1:A:109:ASN:N	2.12	0.82
1:A:361:ASN:HD22	1:A:364:ALA:HB2	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:74:ASN:HD22	1:C:98:THR:CG2	1.92	0.82
1:C:102:ILE:O	1:C:103:ALA:C	2.22	0.82
1:A:961:ILE:HG22	1:A:965:LEU:CD1	2.08	0.82
1:B:247:GLY:HA2	1:B:268:ILE:HD13	1.61	0.82
1:B:355:MET:HE1	1:B:369:THR:HG23	1.62	0.82
1:B:760:ASN:OD1	1:B:761:ASP:N	2.11	0.82
1:B:973:ARG:HA	1:B:976:LEU:CD1	2.08	0.82
1:C:64:VAL:CG1	1:C:65:ILE:H	1.92	0.82
1:C:102:ILE:HG23	1:C:106:GLN:HG3	1.61	0.82
1:C:198:LEU:HD13	1:C:251:LEU:HD13	1.59	0.82
1:A:119:PRO:HD2	1:A:122:VAL:HG23	1.58	0.82
1:A:167:SER:CB	1:A:175:VAL:CG2	2.57	0.82
1:A:467:TYR:CE1	1:A:925:VAL:HG22	2.14	0.82
1:A:527:TYR:O	1:A:530:SER:OG	1.95	0.82
1:A:562:SER:OG	1:A:563:PHE:N	2.00	0.82
1:B:228:GLN:CD	1:C:781:MET:HE3	2.04	0.82
1:B:494:ALA:O	1:B:495:THR:HG23	1.79	0.82
1:C:144:ASN:ND2	1:C:148:THR:OG1	2.13	0.82
1:C:145:THR:HG22	1:C:146:ASP:OD1	1.80	0.82
1:A:515:TRP:O	1:A:519:MET:HB2	1.79	0.82
1:B:224:PRO:O	1:B:224:PRO:HD2	1.77	0.82
1:B:249:ILE:HD12	1:B:262:LEU:HD12	1.62	0.82
1:C:82:SER:OG	1:C:88:VAL:HA	1.78	0.82
1:C:189:ASN:O	1:C:193:LEU:HD12	1.79	0.82
1:C:949:ALA:HB2	1:C:967:ALA:HB2	1.62	0.82
1:B:117:LEU:HD12	1:B:117:LEU:H	1.44	0.82
1:C:213:GLN:HB2	1:C:239:ARG:HD2	1.58	0.82
1:C:376:LEU:O	1:C:378:GLY:N	2.12	0.82
1:A:583:THR:O	1:A:583:THR:CG2	2.22	0.82
1:A:655:PHE:CD2	1:A:663:VAL:HG11	2.14	0.82
1:B:916:ALA:O	1:B:918:PHE:N	2.12	0.82
1:A:930:GLY:O	1:A:932:LEU:N	2.13	0.82
1:C:380:PHE:CE1	1:C:398:MET:SD	2.73	0.82
1:A:90:ILE:O	1:A:90:ILE:CG2	2.28	0.82
1:B:431:THR:CG2	1:B:493:CYS:HB3	2.09	0.82
1:B:694:LYS:HA	1:B:697:GLN:NE2	1.95	0.82
1:B:696:THR:HG22	1:B:699:ARG:HH21	1.44	0.82
1:B:775:SER:HB3	1:B:780:ARG:CD	2.10	0.82
1:C:754:TRP:HZ3	1:C:780:ARG:O	1.63	0.82
1:C:872:GLN:HB2	1:C:875:SER:OG	1.78	0.82
1:A:53:ASP:OD2	1:A:53:ASP:O	1.98	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:141:GLY:HA2	1:A:288:GLY:HA2	1.62	0.81
1:A:154:ILE:O	1:A:158:VAL:HG23	1.79	0.81
1:B:103:ALA:O	1:B:107:VAL:HG23	1.79	0.81
1:B:350:LEU:HD12	1:B:984:LEU:HD12	1.59	0.81
1:B:937:LEU:HD11	1:B:982:PHE:CE2	2.15	0.81
1:C:30:LEU:HD21	1:C:384:ALA:HB2	0.84	0.81
1:A:710:PRO:O	1:A:713:LEU:HD23	1.80	0.81
1:B:192:GLU:OE1	1:B:264:ASP:O	1.97	0.81
1:B:531:VAL:HG12	1:B:535:LEU:HD12	1.59	0.81
1:A:688:ALA:O	1:A:690:LEU:N	2.13	0.81
1:A:956:GLU:O	1:A:958:LYS:N	2.12	0.81
1:A:960:LEU:HB2	1:A:1031:ARG:HH21	1.45	0.81
1:B:158:VAL:HG21	1:B:287:SER:OG	1.80	0.81
1:B:582:ALA:HB1	1:B:586:ARG:HD3	1.61	0.81
1:B:911:GLY:HA3	1:B:1013:THR:OG1	1.79	0.81
1:C:138:MET:HE1	1:C:306:ILE:CG2	2.10	0.81
1:C:251:LEU:CD1	1:C:265:VAL:HG11	2.11	0.81
1:C:987:MET:O	1:C:990:VAL:HG23	1.81	0.81
1:A:98:THR:HG22	1:A:99:ASP:N	1.95	0.81
1:A:576:VAL:HG12	1:A:663:VAL:HG22	1.63	0.81
1:B:13:TRP:CE3	1:B:13:TRP:HA	2.15	0.81
1:B:428:LYS:O	1:B:432:ARG:HB2	1.79	0.81
1:B:48:SER:HA	1:B:87:THR:HA	1.63	0.81
1:C:901:VAL:O	1:C:904:VAL:HG22	1.80	0.81
1:A:65:ILE:O	1:A:68:ASN:HB2	1.80	0.81
1:A:818:ARG:HB2	1:A:823:PRO:HA	1.62	0.81
1:A:1019:ILE:CD1	1:A:1020:PHE:CE2	2.64	0.81
1:B:559:LEU:HD23	1:B:923:ASN:CB	2.06	0.81
1:C:417:GLU:HA	1:C:417:GLU:OE2	1.81	0.81
1:C:467:TYR:OH	1:C:925:VAL:HG12	1.81	0.81
1:A:1019:ILE:HD11	1:A:1020:PHE:CE2	2.16	0.81
1:A:1036:LYS:HB2	1:A:1036:LYS:NZ	1.94	0.81
1:B:309:GLU:C	1:B:311:ALA:H	1.85	0.81
1:B:717:ARG:HG2	1:B:717:ARG:HH11	1.45	0.81
1:C:152:GLU:CD	1:C:152:GLU:H	1.87	0.81
1:C:467:TYR:CZ	1:C:925:VAL:HG12	2.15	0.81
1:A:186:ILE:HG12	1:A:268:ILE:HD12	1.60	0.81
1:B:291:ILE:HG21	1:B:306:ILE:HD11	1.62	0.81
1:B:668:LEU:HB3	1:B:676:THR:HG22	1.61	0.81
1:B:100:ALA:O	1:B:102:ILE:N	2.13	0.81
1:C:27:ILE:CG1	1:C:380:PHE:HD2	1.93	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:393:LEU:CD1	1:C:466:ILE:HG22	2.09	0.81
1:C:728:LYS:CG	1:C:729:ILE:N	2.44	0.81
1:C:818:ARG:HA	1:C:824:SER:H	1.46	0.81
1:A:252:LYS:O	1:A:260:VAL:HG23	1.81	0.81
1:A:344:LEU:HD23	1:A:402:ILE:CD1	2.10	0.81
1:B:598:TYR:HB3	1:B:606:VAL:HG11	1.62	0.81
1:B:952:LEU:C	1:B:954:ASP:H	1.89	0.81
1:C:790:TYR:C	1:C:791:VAL:HG23	2.06	0.81
1:A:370:ILE:O	1:A:370:ILE:HG22	1.80	0.80
1:A:719:ASN:HB2	1:A:828:LEU:CD2	2.11	0.80
1:A:785:ASP:O	1:A:787:GLY:N	2.13	0.80
1:C:189:ASN:ND2	1:C:779:TYR:HE1	1.72	0.80
1:C:699:ARG:HG3	1:C:700:ASN:H	1.42	0.80
1:A:235:ILE:HA	1:B:52:ALA:HB1	1.62	0.80
1:B:128:SER:O	1:B:129:VAL:HG23	1.79	0.80
1:B:247:GLY:HA2	1:B:268:ILE:CD1	2.10	0.80
1:B:897:ILE:HD13	1:B:946:VAL:HG12	1.60	0.80
1:B:1016:VAL:CG1	1:B:1017:LEU:CD2	2.48	0.80
1:C:184:MET:CE	1:C:185:ARG:N	2.42	0.80
1:C:623:ASN:H	1:C:623:ASN:ND2	1.75	0.80
1:A:174:ASP:HA	1:B:70:ASN:HD22	1.41	0.80
1:A:407:ASP:OD1	1:A:940:LYS:NZ	2.15	0.80
1:A:685:ILE:CD1	1:A:687:GLN:NE2	2.42	0.80
1:A:966:ASP:O	1:A:969:ARG:HB2	1.79	0.80
1:B:26:ALA:O	1:B:30:LEU:HB2	1.82	0.80
1:C:44:THR:HG22	1:C:91:THR:CA	2.11	0.80
1:C:45:ILE:HG23	1:C:111:LEU:HD22	1.62	0.80
1:C:253:VAL:HG12	1:C:259:ARG:HG3	1.61	0.80
1:C:368:PRO:HB3	1:C:409:ALA:HB1	1.62	0.80
1:C:531:VAL:O	1:C:534:ILE:HB	1.81	0.80
1:C:595:THR:HG23	1:C:609:VAL:CG1	2.11	0.80
1:C:713:LEU:HG	1:C:833:PRO:O	1.81	0.80
1:B:223:PRO:O	1:B:223:PRO:HG2	1.81	0.80
1:B:416:VAL:CG2	1:B:434:SER:CB	2.59	0.80
1:B:426:PRO:HB3	1:B:430:ALA:HB3	1.61	0.80
1:B:526:HIS:O	1:B:530:SER:OG	1.98	0.80
1:B:905:VAL:HG13	1:B:935:ILE:HG23	1.62	0.80
1:C:361:ASN:CB	1:C:364:ALA:HB3	2.11	0.80
1:C:513:PHE:HB3	1:C:517:ASN:H	1.46	0.80
1:C:762:PHE:CE1	1:C:764:ASP:N	2.49	0.80
1:A:945:ILE:HG21	1:A:1022:VAL:CG2	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:945:ILE:HD11	1:A:975:ILE:HD11	1.61	0.80
1:B:422:GLU:O	1:B:423:GLU:HB2	1.82	0.80
1:C:413:VAL:HG12	1:C:414:GLU:N	1.96	0.80
1:C:456:MET:C	1:C:458:PHE:H	1.89	0.80
1:B:184:MET:HE3	1:B:246:PHE:CD2	2.16	0.80
1:B:355:MET:HE3	1:B:369:THR:HG23	1.64	0.80
1:B:1026:PHE:O	1:B:1030:ARG:HD2	1.82	0.80
1:A:800:PRO:O	1:A:803:ALA:HB3	1.81	0.80
1:A:926:TYR:CD1	1:A:999:ALA:HB1	2.17	0.80
1:B:834:GLY:O	1:B:835:LYS:HG3	1.81	0.80
1:C:711:ASP:O	1:C:713:LEU:N	2.15	0.80
1:A:598:TYR:CD1	1:A:629:VAL:HG21	2.17	0.80
1:B:1016:VAL:HG12	1:B:1017:LEU:HD23	0.85	0.80
1:C:65:ILE:O	1:C:68:ASN:N	2.14	0.80
1:C:99:ASP:OD2	1:C:99:ASP:O	2.00	0.80
1:C:125:GLN:O	1:C:126:GLY:C	2.25	0.80
1:C:166:ILE:HG23	1:C:175:VAL:CG2	1.93	0.80
1:C:634:TRP:CD1	1:C:634:TRP:N	2.47	0.80
1:A:298:ASN:HD22	1:A:300:LEU:H	1.26	0.80
1:A:897:ILE:O	1:A:900:SER:OG	2.00	0.80
1:C:685:ILE:HG22	1:C:687:GLN:HG2	1.63	0.80
1:A:87:THR:C	1:A:88:VAL:HG22	2.02	0.80
1:B:351:VAL:HG21	1:B:981:ALA:O	1.81	0.80
1:C:161:ASN:CB	1:C:162:MET:HG3	2.11	0.80
1:C:211:ASN:HD22	1:C:240:LEU:H	1.30	0.80
1:C:613:ASN:OD1	1:C:614:GLY:N	2.15	0.80
1:A:14:VAL:HA	1:A:17:ILE:HD12	1.62	0.79
1:B:465:ALA:N	1:B:468:ARG:HD2	1.96	0.79
1:A:184:MET:HB3	1:A:771:VAL:HG22	1.63	0.79
1:B:171:GLY:HA3	1:B:302:THR:CG2	2.12	0.79
1:B:240:LEU:HD21	1:B:245:GLU:HB3	1.65	0.79
1:B:259:ARG:HG3	1:B:259:ARG:NH1	1.93	0.79
1:C:142:VAL:O	1:C:286:ALA:HB1	1.81	0.79
1:C:324:VAL:HG23	1:C:326:PRO:HD3	1.63	0.79
1:C:790:TYR:HD1	1:C:800:PRO:HB3	1.45	0.79
1:A:594:VAL:HG13	1:A:655:PHE:CE2	2.16	0.79
1:B:780:ARG:NH1	1:B:780:ARG:HB2	1.95	0.79
1:B:780:ARG:NH1	1:B:780:ARG:HB3	1.94	0.79
1:C:65:ILE:HD13	1:C:111:LEU:CD1	2.12	0.79
1:C:184:MET:HE3	1:C:184:MET:CA	2.12	0.79
1:A:30:LEU:HD23	1:A:384:ALA:HB2	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:515:TRP:CD1	1:A:519:MET:SD	2.76	0.79
1:A:1019:ILE:HG13	1:A:1020:PHE:CE2	2.18	0.79
1:B:189:ASN:HB3	1:B:192:GLU:CB	2.12	0.79
1:B:750:LEU:C	1:B:750:LEU:CD2	2.55	0.79
1:B:1029:VAL:C	1:B:1031:ARG:N	2.36	0.79
1:C:44:THR:HG22	1:C:91:THR:HA	1.64	0.79
1:C:791:VAL:HG12	1:C:791:VAL:O	1.82	0.79
1:A:176:GLN:CD	2:A:2002:DM2:H10	2.06	0.79
1:A:816:LEU:CD2	1:A:816:LEU:HG	2.05	0.79
1:B:225:VAL:O	1:B:226:LYS:C	2.23	0.79
1:C:414:GLU:OE1	1:C:974:PRO:HA	1.83	0.79
1:C:858:ASP:OD1	1:C:859:TRP:N	2.15	0.79
1:A:65:ILE:O	1:A:68:ASN:ND2	2.14	0.79
1:B:58:GLN:NE2	1:B:816:LEU:HB3	1.97	0.79
1:B:293:LEU:HD22	1:B:294:ALA:N	1.97	0.79
1:B:393:LEU:CD1	1:B:466:ILE:CG2	2.61	0.79
1:B:1021:PHE:HB3	1:B:1025:PHE:HE2	1.48	0.79
1:C:60:THR:HG23	1:C:61:VAL:CG2	2.04	0.79
1:C:279:ALA:HB2	1:C:612:VAL:HG22	1.65	0.79
1:C:434:SER:O	1:C:438:ILE:HG13	1.81	0.79
1:C:904:VAL:O	1:C:906:PRO:HD2	1.81	0.79
1:B:3:ASN:CA	1:B:6:ILE:HG13	2.12	0.79
1:B:782:LEU:O	1:B:785:ASP:HB2	1.83	0.79
1:B:934:THR:O	1:B:936:GLY:N	2.16	0.79
1:C:446:ALA:HB2	1:C:482:VAL:HG21	1.65	0.79
1:A:568:ASP:OD1	1:A:634:TRP:HZ3	1.64	0.79
1:A:743:ILE:H	1:A:743:ILE:HD12	1.47	0.79
1:B:953:MET:HG2	1:B:953:MET:O	1.83	0.79
1:A:155:SER:OG	1:A:287:SER:OG	2.01	0.79
1:B:3:ASN:ND2	1:B:4:PHE:H	1.81	0.79
1:C:444:GLY:O	1:C:448:VAL:HG23	1.83	0.79
1:A:46:SER:O	1:A:127:VAL:HG12	1.81	0.78
1:C:246:PHE:O	1:C:249:ILE:HB	1.82	0.78
1:C:259:ARG:HH11	1:C:259:ARG:HB2	1.48	0.78
1:C:726:GLN:N	1:C:810:GLU:O	2.13	0.78
1:B:228:GLN:HB2	1:C:781:MET:HE3	1.65	0.78
1:C:80:SER:OG	1:C:818:ARG:HD3	1.82	0.78
1:C:911:GLY:HA3	1:C:1010:GLY:HA2	1.63	0.78
1:A:64:VAL:CG1	1:A:64:VAL:CG2	2.57	0.78
1:A:73:ASP:O	1:A:75:LEU:N	2.17	0.78
1:B:13:TRP:HE3	1:B:13:TRP:HA	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:115:MET:SD	1:B:127:VAL:HG21	2.23	0.78
1:B:350:LEU:HD12	1:B:984:LEU:CD1	2.14	0.78
1:C:76:MET:CE	1:C:95:GLU:HA	2.11	0.78
1:C:256:ASP:O	1:C:258:SER:N	2.17	0.78
1:C:399:VAL:CG1	1:C:400:LEU:N	2.43	0.78
1:A:30:LEU:CD2	1:A:384:ALA:CB	2.58	0.78
1:A:400:LEU:CD2	1:A:1003:VAL:CG2	2.47	0.78
1:A:563:PHE:HB3	1:A:564:LEU:HD22	1.64	0.78
1:A:584:GLN:H	1:A:622:GLN:CB	1.97	0.78
1:A:278:ILE:HG21	1:A:588:GLN:NE2	1.99	0.78
1:B:3:ASN:C	1:B:5:PHE:H	1.91	0.78
1:C:157:TYR:HE2	1:C:161:ASN:HD22	1.30	0.78
1:C:453:PHE:C	1:C:455:PRO:HD2	2.07	0.78
1:A:43:VAL:O	1:A:91:THR:HA	1.84	0.78
1:A:99:ASP:C	1:A:99:ASP:OD1	2.18	0.78
1:A:144:ASN:ND2	1:A:146:ASP:HB2	1.99	0.78
1:A:186:ILE:CG1	1:A:268:ILE:HD12	2.12	0.78
1:B:393:LEU:CD1	1:B:466:ILE:HG23	2.14	0.78
1:C:65:ILE:HD13	1:C:111:LEU:HD11	1.65	0.78
1:C:753:ALA:O	1:C:775:SER:CB	2.31	0.78
1:A:219:LEU:HD22	1:B:781:MET:O	1.82	0.78
1:A:312:LYS:O	1:A:313:MET:CB	2.31	0.78
1:B:419:VAL:O	1:B:419:VAL:HG12	1.82	0.78
1:C:3:ASN:CA	1:C:6:ILE:HG22	2.13	0.78
1:C:345:VAL:O	1:C:348:ILE:HB	1.84	0.78
1:A:348:ILE:O	1:A:350:LEU:N	2.16	0.78
1:A:584:GLN:O	1:A:585:GLU:C	2.25	0.78
1:A:731:ILE:HG21	1:A:746:ILE:HD12	1.66	0.78
1:B:228:GLN:HB2	1:C:781:MET:CE	2.13	0.78
1:B:404:LEU:HD23	1:B:449:LEU:HD11	1.63	0.78
1:A:110:LYS:CB	1:A:110:LYS:CD	2.62	0.78
1:A:298:ASN:ND2	1:A:298:ASN:C	2.40	0.78
1:A:687:GLN:HB2	1:A:854:GLY:O	1.84	0.78
1:A:778:LYS:HB3	1:A:779:TYR:CE1	2.18	0.78
1:A:888:LEU:HD21	1:A:901:VAL:HB	1.64	0.78
1:B:952:LEU:HD12	1:B:963:ALA:HA	1.65	0.78
1:C:88:VAL:CB	1:C:88:VAL:C	2.56	0.78
1:B:361:ASN:O	1:B:365:THR:HB	1.83	0.78
1:B:514:GLY:HA2	1:B:517:ASN:HD22	1.47	0.78
1:B:556:PHE:HD2	1:B:557:VAL:HG22	1.49	0.78
1:B:974:PRO:O	1:B:976:LEU:N	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3:ASN:HA	1:C:6:ILE:CG2	2.13	0.78
1:C:703:LEU:O	1:C:706:ALA:HB3	1.84	0.78
1:C:725:PRO:CD	1:C:811:TYR:CE2	2.58	0.78
1:A:741:VAL:O	1:A:741:VAL:HG13	1.83	0.77
1:B:328:ASP:O	1:B:331:PRO:HD3	1.84	0.77
1:B:904:VAL:O	1:B:907:LEU:HG	1.83	0.77
1:B:913:LEU:O	1:B:917:THR:OG1	2.01	0.77
1:C:110:LYS:O	1:C:111:LEU:C	2.27	0.77
1:C:441:ALA:O	1:C:445:ILE:HG12	1.84	0.77
1:B:188:MET:HE1	1:B:203:VAL:HG11	1.64	0.77
1:B:517:ASN:O	1:B:521:GLU:HG3	1.84	0.77
1:B:619:GLY:HA3	1:B:721:LEU:HD21	1.66	0.77
1:B:987:MET:O	1:B:991:ILE:HG23	1.84	0.77
1:C:184:MET:HE3	1:C:185:ARG:H	1.46	0.77
1:C:684:LEU:HD11	1:C:855:VAL:HG13	1.65	0.77
1:C:841:MET:O	1:C:842:GLU:C	2.25	0.77
1:A:518:ARG:HB2	1:A:518:ARG:NH1	1.96	0.77
1:A:675:GLY:O	1:A:676:THR:O	2.01	0.77
1:B:240:LEU:HD13	1:B:246:PHE:CD2	2.18	0.77
1:C:365:THR:O	1:C:368:PRO:HD2	1.84	0.77
1:C:699:ARG:CD	1:C:703:LEU:HD11	2.15	0.77
1:A:244:GLU:HG2	1:A:248:LYS:HZ3	1.49	0.77
1:B:24:GLY:HA2	1:B:27:ILE:HG13	1.67	0.77
1:B:128:SER:C	1:B:129:VAL:HG23	2.09	0.77
1:B:944:LEU:O	1:B:971:ARG:HG3	1.85	0.77
1:C:244:GLU:HA	1:C:263:ARG:HH22	1.50	0.77
1:C:302:THR:O	1:C:303:ALA:C	2.26	0.77
1:C:713:LEU:CB	1:C:832:ALA:O	2.32	0.77
1:C:775:SER:O	1:C:776:GLU:C	2.21	0.77
1:A:182:TYR:HB3	1:A:270:LEU:CD1	2.15	0.77
1:A:585:GLU:OE2	1:C:227:GLY:HA2	1.83	0.77
1:B:186:ILE:CD1	1:B:268:ILE:HG13	2.15	0.77
1:C:151:GLN:O	1:C:152:GLU:C	2.25	0.77
1:A:45:ILE:O	1:A:88:VAL:O	2.02	0.77
1:A:138:MET:HE3	1:A:306:ILE:HD13	1.65	0.77
1:A:151:GLN:CB	1:A:152:GLU:OE2	2.32	0.77
1:A:84:SER:C	1:A:85:THR:HG23	2.10	0.77
1:A:115:MET:O	1:A:116:PRO:C	2.18	0.77
1:A:821:GLY:CA	1:C:168:ARG:HH12	1.97	0.77
1:A:935:ILE:HG22	1:A:935:ILE:O	1.85	0.77
1:B:223:PRO:O	1:B:223:PRO:CG	2.31	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:792:ARG:N	1:B:798:MET:HE3	2.00	0.77
1:B:908:GLY:O	1:B:911:GLY:N	2.18	0.77
1:C:54:ALA:HB2	1:C:84:SER:CB	2.15	0.77
1:C:972:LEU:H	1:C:974:PRO:HD2	1.49	0.77
1:C:729:ILE:CD1	1:C:786:ILE:HD13	2.13	0.77
1:C:892:TYR:OH	1:C:946:VAL:HB	1.84	0.77
1:A:185:ARG:O	1:A:186:ILE:HG13	1.85	0.77
1:A:210:GLN:HG3	1:A:249:ILE:HG23	0.83	0.77
1:A:846:GLN:O	1:A:849:SER:HB3	1.85	0.77
1:B:324:VAL:CG2	1:B:326:PRO:HD2	2.08	0.77
1:B:833:PRO:HG2	1:B:834:GLY:H	1.50	0.77
1:C:159:ALA:O	1:C:160:ALA:C	2.27	0.77
1:C:310:LEU:CD2	1:C:323:ILE:HD13	2.15	0.77
1:A:190:PRO:HA	1:A:193:LEU:HD22	1.64	0.76
1:A:527:TYR:OH	1:A:968:VAL:CG1	2.32	0.76
1:A:857:TYR:C	1:A:857:TYR:HD1	1.91	0.76
1:B:587:THR:O	1:B:591:LEU:HB2	1.84	0.76
1:C:80:SER:CB	1:C:90:ILE:HG12	2.14	0.76
1:C:166:ILE:HG23	1:C:166:ILE:C	2.09	0.76
1:C:699:ARG:CG	1:C:700:ASN:H	1.96	0.76
1:C:727:PHE:HE2	1:C:786:ILE:HD12	1.48	0.76
1:A:98:THR:HG22	1:A:99:ASP:H	1.48	0.76
1:A:778:LYS:CG	1:A:779:TYR:CE1	2.68	0.76
1:B:68:ASN:HD22	1:B:114:ALA:HB2	1.50	0.76
1:C:741:VAL:HG11	1:C:791:VAL:HG11	1.65	0.76
1:A:313:MET:N	1:A:315:PRO:HD2	2.00	0.76
1:A:713:LEU:HB2	1:A:832:ALA:CB	2.16	0.76
1:A:767:ARG:NH2	1:B:67:GLN:NE2	2.32	0.76
1:C:55:LYS:O	1:C:59:ASP:HB2	1.86	0.76
1:C:527:TYR:CE2	1:C:972:LEU:CD1	2.68	0.76
1:A:104:GLN:NE2	1:B:109:ASN:CG	2.42	0.76
1:B:104:GLN:HE21	1:B:104:GLN:CA	1.99	0.76
1:B:415:ASN:O	1:B:434:SER:OG	2.03	0.76
1:C:189:ASN:HD22	1:C:190:PRO:HD2	1.40	0.76
1:C:190:PRO:O	1:C:192:GLU:N	2.19	0.76
1:C:549:VAL:HG12	1:C:550:VAL:N	1.99	0.76
1:C:602:GLU:OE1	1:C:647:ILE:HG23	1.85	0.76
1:C:711:ASP:CG	1:C:712:MET:H	1.92	0.76
1:A:156:ASP:O	1:A:159:ALA:N	2.19	0.76
1:B:372:VAL:HG13	1:B:402:ILE:HD11	1.66	0.76
1:B:763:ILE:N	1:B:763:ILE:HD12	2.01	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:310:LEU:O	1:C:313:MET:N	2.13	0.76
1:C:485:ALA:O	1:C:490:PRO:CD	2.30	0.76
1:A:162:MET:O	1:A:165:ALA:HB3	1.85	0.76
1:A:400:LEU:HD13	1:A:929:VAL:HG12	1.68	0.76
1:A:1036:LYS:HB2	1:A:1036:LYS:HZ2	1.51	0.76
1:C:758:TYR:HD1	1:C:770:LYS:HE2	1.51	0.76
1:C:790:TYR:O	1:C:791:VAL:HG23	1.85	0.76
1:B:157:TYR:O	1:B:159:ALA:N	2.19	0.76
1:B:171:GLY:HA3	1:B:302:THR:HG22	1.68	0.76
1:C:741:VAL:HG11	1:C:791:VAL:CG1	2.15	0.76
1:A:902:MET:O	1:A:904:VAL:N	2.19	0.76
1:A:949:ALA:HB1	1:A:1026:PHE:CD2	2.21	0.76
1:A:1015:THR:HG22	1:A:1016:VAL:N	2.01	0.76
1:B:16:ALA:HB1	1:B:374:VAL:CG2	2.16	0.76
1:B:456:MET:HB2	1:B:467:TYR:CD2	2.21	0.76
1:B:523:SER:CA	1:B:526:HIS:CD2	2.56	0.76
1:C:251:LEU:HD12	1:C:265:VAL:HG11	1.68	0.76
1:A:108:GLN:HB2	1:A:129:VAL:HG11	1.67	0.76
1:A:467:TYR:HE1	1:A:925:VAL:HG22	1.48	0.76
1:A:584:GLN:H	1:A:622:GLN:HB2	1.49	0.76
1:B:18:ILE:CG2	1:B:19:ILE:N	2.49	0.76
1:B:472:ILE:CG2	1:B:473:THR:N	2.48	0.76
1:B:598:TYR:CE2	1:B:655:PHE:HZ	2.03	0.76
1:C:414:GLU:CD	1:C:977:MET:HG3	2.10	0.76
1:A:139:VAL:CG2	1:A:290:GLY:HA2	2.16	0.76
1:A:628:PHE:HD2	1:A:628:PHE:N	1.82	0.76
1:C:99:ASP:OD2	1:C:101:ASP:N	2.18	0.76
1:A:485:ALA:O	1:A:490:PRO:HD3	1.85	0.75
1:A:559:LEU:CD1	1:A:560:PRO:HD2	2.08	0.75
1:B:605:ASN:O	1:B:632:LYS:N	2.18	0.75
1:B:905:VAL:HB	1:B:906:PRO:CD	2.16	0.75
1:C:158:VAL:CG1	1:C:158:VAL:C	2.59	0.75
1:C:166:ILE:HG12	1:C:291:ILE:HD11	1.67	0.75
1:C:405:LEU:CD2	1:C:481:SER:HB2	2.16	0.75
1:A:355:MET:HE1	1:A:410:ILE:HG21	1.66	0.75
1:A:466:ILE:O	1:A:469:GLN:HB2	1.85	0.75
1:A:609:VAL:HG12	1:A:629:VAL:CG2	2.15	0.75
1:C:69:MET:CE	1:C:92:LEU:CD2	2.64	0.75
1:C:241:THR:H	1:C:245:GLU:HG3	1.51	0.75
1:A:178:PHE:HB2	1:A:288:GLY:O	1.86	0.75
1:A:844:MET:HA	1:A:844:MET:HE3	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:717:ARG:HH11	1:B:717:ARG:CG	1.98	0.75
1:B:865:GLN:NE2	1:B:868:LEU:CD2	2.47	0.75
1:A:968:VAL:HG21	1:A:1023:PRO:CG	2.13	0.75
1:A:1015:THR:HG22	1:A:1016:VAL:H	1.50	0.75
1:B:583:THR:HG22	1:B:586:ARG:HG3	1.67	0.75
1:A:117:LEU:CD2	1:A:117:LEU:CD1	2.65	0.75
1:A:736:ALA:O	1:A:741:VAL:CG1	2.34	0.75
1:A:778:LYS:HB3	1:A:779:TYR:HE1	1.49	0.75
1:A:893:GLU:HG3	1:C:10:ILE:HD12	1.68	0.75
1:B:301:ASP:O	1:B:304:ALA:HB3	1.86	0.75
1:C:280:GLU:CB	1:C:284:GLN:O	2.34	0.75
1:A:244:GLU:HG2	1:A:248:LYS:NZ	2.00	0.75
1:C:168:ARG:C	1:C:169:THR:CA	2.59	0.75
1:C:184:MET:HE2	1:C:185:ARG:N	1.99	0.75
1:A:11:PHE:O	1:A:13:TRP:N	2.20	0.75
1:A:171:GLY:C	1:A:294:ALA:HB2	2.12	0.75
1:A:323:ILE:H	1:A:323:ILE:CD1	1.99	0.75
1:A:578:LEU:HD11	1:A:587:THR:HA	1.69	0.75
1:A:775:SER:O	1:A:776:GLU:O	2.04	0.75
1:A:910:ILE:O	1:A:914:LEU:HD23	1.87	0.75
1:B:45:ILE:HG23	1:B:129:VAL:HG22	1.67	0.75
1:C:182:TYR:HD2	1:C:271:GLY:O	1.70	0.75
1:A:221:GLY:H	1:B:622:GLN:NE2	1.84	0.75
1:A:412:VAL:HG22	1:A:438:ILE:HD12	1.69	0.75
1:A:467:TYR:HE1	1:A:925:VAL:CG2	2.00	0.75
1:A:601:LYS:O	1:A:602:GLU:HG2	1.86	0.75
1:A:702:LEU:O	1:A:705:GLU:HB3	1.87	0.75
1:A:821:GLY:O	1:A:822:LEU:CB	2.13	0.75
1:C:39:ALA:CB	1:C:673:GLU:HG3	2.17	0.75
1:A:819:TYR:O	1:A:820:ASN:C	2.26	0.75
1:A:823:PRO:C	1:A:824:SER:OG	2.30	0.75
1:B:13:TRP:HA	1:B:488:LEU:HD21	1.69	0.75
1:B:901:VAL:HG11	1:B:943:ILE:CD1	2.16	0.75
1:C:682:PHE:HE2	1:C:702:LEU:CD1	1.99	0.75
1:C:925:VAL:HA	1:C:928:GLN:HE22	1.50	0.75
1:C:959:GLY:O	1:C:963:ALA:HB2	1.87	0.75
1:A:10:ILE:HG21	1:B:893:GLU:O	1.87	0.74
1:A:108:GLN:CD	1:B:112:GLN:CD	2.55	0.74
1:B:485:ALA:HA	1:B:489:THR:OG1	1.86	0.74
1:C:99:ASP:O	1:C:100:ALA:C	2.19	0.74
1:C:222:THR:HB	1:C:223:PRO:CD	2.16	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:844:MET:HA	1:C:847:LEU:HD11	1.69	0.74
1:A:66:GLU:OE1	1:A:818:ARG:CD	2.31	0.74
1:A:251:LEU:HD21	1:A:262:LEU:CD1	2.17	0.74
1:A:529:ASP:O	1:A:532:GLY:N	2.20	0.74
1:B:520:PHE:HA	1:B:523:SER:OG	1.88	0.74
1:B:785:ASP:O	1:B:787:GLY:N	2.20	0.74
1:C:252:LYS:H	1:C:260:VAL:HG23	1.52	0.74
1:C:400:LEU:HD12	1:C:933:THR:HG1	1.51	0.74
1:C:797:GLN:HA	1:C:797:GLN:HE21	1.50	0.74
1:C:950:LYS:O	1:C:954:ASP:N	2.14	0.74
1:C:975:ILE:HG22	1:C:976:LEU:N	2.02	0.74
1:A:72:ILE:HG13	1:A:107:VAL:HA	1.69	0.74
1:A:155:SER:HB3	1:A:179:GLY:HA3	1.69	0.74
1:A:572:PHE:C	1:A:573:MET:HG2	2.08	0.74
1:B:157:TYR:CE1	1:B:318:PRO:HD3	2.22	0.74
1:B:555:LEU:HD12	1:B:555:LEU:N	2.02	0.74
1:C:836:SER:O	1:C:838:GLY:N	2.20	0.74
1:C:941:ASN:HA	1:C:944:LEU:HD12	1.68	0.74
1:A:355:MET:SD	1:A:410:ILE:HG23	2.27	0.74
1:A:559:LEU:HD11	1:A:922:THR:HA	1.69	0.74
1:A:596:HIS:C	1:A:598:TYR:H	1.94	0.74
1:B:439:GLN:HA	1:B:442:LEU:HG	1.69	0.74
1:A:64:VAL:CG1	1:A:64:VAL:HB	2.11	0.74
1:B:527:TYR:N	1:B:527:TYR:HD1	1.85	0.74
1:C:31:PRO:O	1:C:389:SER:HB2	1.88	0.74
1:C:184:MET:HG3	1:C:246:PHE:CE1	2.22	0.74
1:A:518:ARG:HH11	1:A:518:ARG:CB	1.98	0.74
1:A:575:MET:CB	1:A:664:PHE:HB2	2.16	0.74
1:A:832:ALA:O	1:A:834:GLY:N	2.20	0.74
1:B:33:ALA:O	1:B:337:ILE:HD11	1.88	0.74
1:B:379:THR:CG2	1:B:476:SER:O	2.36	0.74
1:B:578:LEU:N	1:B:578:LEU:CD1	2.50	0.74
1:C:57:VAL:O	1:C:61:VAL:HB	1.88	0.74
1:C:114:ALA:O	1:C:118:LEU:HD11	1.85	0.74
1:A:186:ILE:HG21	1:A:773:VAL:HG23	1.70	0.74
1:A:199:THR:CG2	1:A:792:ARG:H	2.00	0.74
1:A:219:LEU:HD12	1:A:232:ALA:HB3	1.69	0.74
1:A:449:LEU:HB3	1:A:478:MET:HE2	1.68	0.74
1:A:1018:ALA:O	1:A:1022:VAL:HG13	1.87	0.74
1:B:3:ASN:HA	1:B:6:ILE:CG1	2.17	0.74
1:B:219:LEU:HD23	1:B:234:ILE:CG1	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:65:ILE:HG22	1:C:66:GLU:N	2.03	0.74
1:C:394:THR:HG22	1:C:395:MET:N	2.03	0.74
1:A:162:MET:CE	1:A:310:LEU:HD22	2.18	0.74
1:A:435:MET:HA	1:A:435:MET:HE3	1.68	0.74
1:A:611:ALA:HB2	1:A:627:ALA:HB1	1.68	0.74
1:B:18:ILE:HG22	1:B:19:ILE:N	2.02	0.74
1:B:200:PRO:HA	1:B:203:VAL:HG21	1.69	0.74
1:B:255:GLN:HG3	1:B:256:ASP:OD1	1.88	0.74
1:B:975:ILE:O	1:B:975:ILE:CG2	2.34	0.74
1:C:577:GLN:NE2	1:C:577:GLN:H	1.85	0.74
1:A:936:GLY:O	1:A:937:LEU:C	2.31	0.74
1:B:49:TYR:CZ	1:B:122:VAL:HG13	2.23	0.74
1:B:66:GLU:OE2	1:B:821:GLY:HA2	1.88	0.74
1:B:420:MET:HG2	1:B:424:GLY:O	1.88	0.74
1:B:954:ASP:HA	1:B:958:LYS:HE2	1.70	0.74
1:C:64:VAL:CG1	1:C:65:ILE:N	2.42	0.74
1:C:102:ILE:CG2	1:C:106:GLN:HG3	2.17	0.74
1:C:203:VAL:HG12	1:C:207:ILE:HD11	1.70	0.74
1:C:658:ILE:H	1:C:658:ILE:CD1	1.94	0.74
1:C:888:LEU:HB3	1:C:898:PRO:HB3	1.69	0.74
1:A:643:LYS:NZ	1:A:995:ALA:HB2	2.02	0.74
1:B:865:GLN:NE2	1:B:868:LEU:HD22	2.03	0.74
1:C:166:ILE:CG2	1:C:166:ILE:CA	2.64	0.74
1:A:252:LYS:HB3	1:A:260:VAL:CG2	2.10	0.73
1:A:398:MET:HA	1:A:401:ALA:HB3	1.70	0.73
1:A:734:GLU:OE2	1:C:259:ARG:HD2	1.88	0.73
1:B:226:LYS:HE3	1:B:226:LYS:CA	2.08	0.73
1:B:737:GLN:O	1:B:737:GLN:HG2	1.88	0.73
1:B:950:LYS:O	1:B:950:LYS:HD3	1.88	0.73
1:C:15:ILE:HG22	1:C:16:ALA:N	2.01	0.73
1:C:713:LEU:HG	1:C:832:ALA:O	1.88	0.73
1:A:72:ILE:CG2	1:A:73:ASP:OD2	2.35	0.73
1:A:359:LEU:HD21	1:A:417:GLU:CG	2.11	0.73
1:A:578:LEU:O	1:A:623:ASN:OD1	2.05	0.73
1:A:1013:THR:C	1:A:1015:THR:H	1.96	0.73
1:B:534:ILE:HG23	1:B:541:TYR:CZ	2.23	0.73
1:B:547:ILE:CG2	1:B:548:ILE:N	2.48	0.73
1:C:222:THR:CB	1:C:223:PRO:HD3	2.17	0.73
1:C:317:PHE:CB	1:C:318:PRO:HD2	2.17	0.73
1:A:66:GLU:OE1	1:A:818:ARG:NH1	2.18	0.73
1:A:119:PRO:HD2	1:A:122:VAL:CG2	2.17	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:188:MET:HE1	1:A:200:PRO:CB	2.15	0.73
1:A:250:LEU:HD11	1:B:734:GLU:CB	2.17	0.73
1:A:886:LEU:O	1:C:14:VAL:HG21	1.88	0.73
1:B:18:ILE:CG2	1:B:19:ILE:H	2.01	0.73
1:B:74:ASN:O	1:B:94:PHE:HB3	1.87	0.73
1:B:307:ARG:HH11	1:B:307:ARG:HB2	1.53	0.73
1:B:427:PRO:C	1:B:429:GLU:H	1.96	0.73
1:C:175:VAL:CG1	1:C:289:LEU:HB3	2.18	0.73
1:C:208:LYS:HA	1:C:760:ASN:HD21	1.53	0.73
1:C:399:VAL:HG12	1:C:400:LEU:HD23	1.69	0.73
1:C:762:PHE:CD1	1:C:762:PHE:C	2.66	0.73
1:A:53:ASP:CG	1:A:56:THR:HB	2.12	0.73
1:A:111:LEU:O	1:A:114:ALA:HB2	1.89	0.73
1:A:139:VAL:O	1:A:326:PRO:HD2	1.88	0.73
1:B:262:LEU:HD22	1:B:266:ALA:HB3	1.70	0.73
1:A:666:PHE:HD2	1:A:666:PHE:N	1.86	0.73
1:A:758:TYR:CD1	1:A:758:TYR:C	2.66	0.73
1:B:412:VAL:HG13	1:B:435:MET:HE1	1.69	0.73
1:B:763:ILE:HD13	1:B:763:ILE:H	1.52	0.73
1:C:326:PRO:O	1:C:327:TYR:C	2.31	0.73
1:C:449:LEU:O	1:C:452:VAL:HG23	1.87	0.73
1:C:729:ILE:HG12	1:C:807:SER:HB3	1.70	0.73
1:A:574:THR:CG2	1:A:594:VAL:HG11	2.17	0.73
1:B:762:PHE:CE1	1:B:764:ASP:HB2	2.23	0.73
1:C:548:ILE:HD11	1:C:1017:LEU:HD11	1.71	0.73
1:B:537:SER:O	1:B:540:ARG:HD2	1.89	0.73
1:B:785:ASP:O	1:B:786:ILE:C	2.30	0.73
1:B:791:VAL:CG2	1:B:801:PHE:HE2	2.02	0.73
1:C:4:PHE:CB	1:C:8:ARG:HH22	2.02	0.73
1:C:161:ASN:C	1:C:162:MET:CG	2.62	0.73
1:C:470:PHE:O	1:C:471:SER:C	2.30	0.73
1:C:785:ASP:O	1:C:788:ASP:OD2	2.06	0.73
1:B:441:ALA:CB	1:B:947:GLU:HG2	2.17	0.73
1:B:471:SER:O	1:B:472:ILE:C	2.31	0.73
1:B:707:ALA:O	1:B:710:PRO:HD3	1.89	0.73
1:B:986:VAL:O	1:B:990:VAL:HG23	1.87	0.73
1:C:15:ILE:O	1:C:16:ALA:C	2.32	0.73
1:C:514:GLY:O	1:C:518:ARG:HB2	1.87	0.73
1:C:650:ARG:HA	1:C:653:ARG:HG2	1.70	0.73
1:C:859:TRP:HB3	1:C:863:SER:O	1.89	0.73
1:A:68:ASN:CB	1:A:68:ASN:C	2.62	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:LEU:HD11	1:C:124:GLN:O	1.89	0.73
1:A:298:ASN:HD22	1:A:300:LEU:N	1.84	0.73
1:B:602:GLU:C	1:B:604:ASN:N	2.47	0.73
1:B:973:ARG:CA	1:B:976:LEU:HD12	2.15	0.73
1:C:360:GLN:HE21	1:C:513:PHE:HE2	1.34	0.73
1:A:709:HIS:N	1:A:710:PRO:CD	2.51	0.73
1:B:38:ILE:O	1:B:462:SER:HB2	1.89	0.73
1:B:871:ASN:N	1:B:871:ASN:ND2	2.36	0.73
1:B:983:ILE:HD13	1:B:1008:MET:HG3	1.68	0.73
1:B:1021:PHE:O	1:B:1025:PHE:CD2	2.41	0.73
1:C:88:VAL:CA	1:C:88:VAL:HB	2.13	0.73
1:C:637:ARG:NH1	1:C:642:ASN:O	2.22	0.73
1:A:717:ARG:NH1	1:A:828:LEU:HG	2.03	0.72
1:A:945:ILE:HD11	1:A:975:ILE:CD1	2.18	0.72
1:B:213:GLN:CG	1:C:56:THR:HG23	2.19	0.72
1:B:219:LEU:HD21	1:B:234:ILE:HG12	1.70	0.72
1:B:240:LEU:CB	1:B:246:PHE:CE2	2.72	0.72
1:B:278:ILE:CD1	1:B:584:GLN:NE2	2.52	0.72
1:B:327:TYR:CD2	1:B:628:PHE:HB3	2.23	0.72
1:B:945:ILE:HD13	1:B:1022:VAL:HG21	1.69	0.72
1:C:21:LEU:O	1:C:25:LEU:HG	1.89	0.72
1:A:361:ASN:ND2	1:A:364:ALA:HB2	2.03	0.72
1:B:1029:VAL:C	1:B:1031:ARG:H	1.97	0.72
1:C:7:ASP:O	1:C:9:PRO:HD3	1.88	0.72
1:C:266:ALA:C	1:C:267:LYS:O	2.22	0.72
1:A:102:ILE:HD11	1:C:101:ASP:HB3	1.71	0.72
1:A:185:ARG:CG	1:A:271:GLY:HA3	2.19	0.72
1:A:461:GLY:O	1:A:463:THR:N	2.21	0.72
1:A:818:ARG:CB	1:A:818:ARG:HE	2.02	0.72
1:A:991:ILE:HD11	1:A:1004:GLY:HA3	1.70	0.72
1:B:356:TYR:C	1:B:358:PHE:N	2.47	0.72
1:B:695:LEU:HD21	1:B:825:MET:HG3	1.71	0.72
1:B:1026:PHE:HB3	1:B:1030:ARG:NH1	2.05	0.72
1:C:35:TYR:CG	1:C:671:ILE:HG12	2.24	0.72
1:C:46:SER:N	1:C:128:SER:O	2.21	0.72
1:C:158:VAL:CG1	1:C:158:VAL:HB	2.16	0.72
1:C:308:ALA:HA	1:C:311:ALA:HB3	1.71	0.72
1:C:394:THR:CG2	1:C:395:MET:N	2.53	0.72
1:A:317:PHE:O	1:A:321:LEU:HD23	1.89	0.72
1:A:325:TYR:HD1	1:A:325:TYR:N	1.84	0.72
1:A:443:VAL:CG1	1:A:444:GLY:N	2.46	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:713:LEU:O	1:A:714:THR:CB	2.38	0.72
1:A:893:GLU:CG	1:C:10:ILE:CD1	2.67	0.72
1:A:966:ASP:HA	1:A:969:ARG:HB2	1.70	0.72
1:B:669:PRO:CB	1:B:862:MET:HE2	2.15	0.72
1:A:69:MET:O	1:A:70:ASN:OD1	2.07	0.72
1:A:615:PHE:CE1	2:A:2002:DM2:C1	2.70	0.72
1:C:753:ALA:O	1:C:775:SER:HB3	1.89	0.72
1:A:162:MET:HE1	1:A:310:LEU:HD22	1.72	0.72
1:A:1035:ARG:HG3	1:A:1036:LYS:HG3	1.72	0.72
1:B:77:TYR:HB2	1:B:820:ASN:HD21	1.54	0.72
1:B:157:TYR:CD2	1:B:161:ASN:ND2	2.55	0.72
1:C:65:ILE:CG2	1:C:65:ILE:CD1	2.67	0.72
1:C:302:THR:O	1:C:305:ALA:N	2.22	0.72
1:C:545:TYR:CE1	1:C:1021:PHE:CD2	2.78	0.72
1:C:65:ILE:CG2	1:C:65:ILE:CG1	2.67	0.72
1:C:247:GLY:O	1:C:263:ARG:HB2	1.90	0.72
1:C:380:PHE:HA	1:C:383:LEU:HD12	1.72	0.72
1:C:1001:ASN:O	1:C:1005:THR:HG23	1.89	0.72
1:A:193:LEU:HA	1:A:265:VAL:HG22	1.70	0.72
1:A:756:GLY:CA	1:A:774:MET:HB2	2.19	0.72
1:A:801:PHE:HD1	1:A:805:SER:CB	2.03	0.72
1:A:864:TYR:O	1:A:865:GLN:O	2.08	0.72
1:B:62:THR:HG23	1:B:88:VAL:HG11	1.72	0.72
1:B:601:LYS:C	1:B:603:LYS:H	1.96	0.72
1:B:684:LEU:HD13	1:B:702:LEU:CD2	2.19	0.72
1:B:946:VAL:HG22	1:B:1026:PHE:HE1	1.47	0.72
1:B:981:ALA:O	1:B:985:GLY:N	2.23	0.72
1:C:399:VAL:HG12	1:C:400:LEU:HD22	1.72	0.72
1:C:532:GLY:O	1:C:535:LEU:CD2	2.38	0.72
1:C:596:HIS:O	1:C:597:TYR:C	2.32	0.72
1:A:171:GLY:O	1:A:172:VAL:C	2.32	0.72
1:A:364:ALA:O	1:A:368:PRO:HD2	1.90	0.72
1:A:379:THR:HA	1:A:382:VAL:CG2	2.20	0.72
1:A:563:PHE:O	1:A:564:LEU:HD13	1.88	0.72
1:A:951:ASP:O	1:A:955:LYS:HB2	1.89	0.72
1:B:45:ILE:CD1	1:B:69:MET:HE3	2.17	0.72
1:B:49:TYR:CD1	1:B:122:VAL:HG22	2.24	0.72
1:B:148:THR:O	1:B:149:MET:HG2	1.89	0.72
1:B:150:THR:O	1:B:151:GLN:C	2.32	0.72
1:B:185:ARG:HH11	1:B:185:ARG:CG	2.02	0.72
1:B:204:ILE:HG22	1:B:208:LYS:HD2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:572:PHE:HZ	1:B:598:TYR:CE1	2.08	0.72
1:C:990:VAL:HG13	1:C:1005:THR:HG22	1.72	0.72
1:A:26:ALA:O	1:A:30:LEU:HG	1.90	0.72
1:A:348:ILE:CD1	1:A:373:PRO:HD3	2.20	0.72
1:A:482:VAL:CG1	1:A:483:LEU:N	2.51	0.72
1:B:416:VAL:CG2	1:B:434:SER:HB3	2.20	0.72
1:B:646:ALA:O	1:B:647:ILE:C	2.32	0.72
1:B:775:SER:HB3	1:B:780:ARG:CG	2.20	0.72
1:B:924:ASP:HB3	1:B:926:TYR:H	1.54	0.72
1:C:35:TYR:HB2	1:C:671:ILE:HG23	1.71	0.72
1:C:157:TYR:CE2	1:C:161:ASN:ND2	2.57	0.72
1:C:244:GLU:HA	1:C:263:ARG:NH2	2.04	0.72
1:C:750:LEU:O	1:C:754:TRP:HB2	1.89	0.72
1:C:994:GLY:HA2	1:C:997:SER:HB3	1.71	0.72
1:A:672:VAL:O	1:A:674:LEU:N	2.23	0.71
1:A:927:PHE:C	1:A:927:PHE:HD2	1.96	0.71
1:B:578:LEU:N	1:B:578:LEU:HD12	2.06	0.71
1:C:41:PRO:O	1:C:94:PHE:N	2.20	0.71
1:C:65:ILE:HD11	1:C:111:LEU:HD11	1.70	0.71
1:C:138:MET:CE	1:C:306:ILE:CG2	2.58	0.71
1:A:459:PHE:CD1	1:A:467:TYR:CD2	2.78	0.71
1:A:726:GLN:HB3	1:C:235:ILE:HD13	1.70	0.71
1:B:171:GLY:O	1:B:294:ALA:HB2	1.88	0.71
1:C:6:ILE:HD11	1:C:494:ALA:CB	2.20	0.71
1:C:140:VAL:O	1:C:140:VAL:HG12	1.90	0.71
1:A:313:MET:H	1:A:315:PRO:HD2	1.54	0.71
1:A:379:THR:OG1	1:A:477:ALA:HA	1.90	0.71
1:A:535:LEU:HD22	1:A:1027:VAL:HG21	1.72	0.71
1:B:310:LEU:O	1:B:314:GLU:HG2	1.90	0.71
1:B:790:TYR:HD1	1:B:800:PRO:CA	2.02	0.71
1:C:721:LEU:O	1:C:721:LEU:HG	1.89	0.71
1:A:190:PRO:HD3	1:A:789:TRP:CH2	2.26	0.71
1:A:842:GLU:O	1:A:846:GLN:HG3	1.89	0.71
1:B:36:PRO:O	1:B:38:ILE:HG12	1.90	0.71
1:B:379:THR:HG22	1:B:476:SER:O	1.90	0.71
1:C:353:LEU:O	1:C:356:TYR:HB2	1.90	0.71
1:C:416:VAL:CG2	1:C:434:SER:OG	2.37	0.71
1:C:545:TYR:CZ	1:C:1021:PHE:HD2	2.08	0.71
1:A:801:PHE:HD1	1:A:805:SER:OG	1.74	0.71
1:A:860:THR:O	1:A:864:TYR:CB	2.37	0.71
1:B:314:GLU:HA	1:B:317:PHE:CE2	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:791:VAL:HG21	1:B:801:PHE:HE2	1.54	0.71
1:B:916:ALA:C	1:B:918:PHE:N	2.41	0.71
1:C:586:ARG:O	1:C:589:LYS:HB2	1.90	0.71
1:A:186:ILE:HG12	1:A:268:ILE:CD1	2.19	0.71
1:A:594:VAL:HA	1:A:655:PHE:CZ	2.25	0.71
1:A:666:PHE:N	1:A:666:PHE:CD2	2.59	0.71
1:B:194:ASN:ND2	1:B:790:TYR:CD2	2.59	0.71
1:B:262:LEU:HD22	1:B:266:ALA:CB	2.19	0.71
1:B:411:VAL:O	1:B:438:ILE:CD1	2.39	0.71
1:B:987:MET:O	1:B:990:VAL:HB	1.90	0.71
1:C:262:LEU:HD23	1:C:268:ILE:HD11	1.73	0.71
1:A:578:LEU:HD12	1:A:587:THR:CB	2.21	0.71
1:B:104:GLN:HG3	1:B:105:VAL:H	1.56	0.71
1:B:309:GLU:O	1:B:311:ALA:N	2.23	0.71
1:B:896:SER:HA	1:B:899:PHE:HD2	1.54	0.71
1:B:973:ARG:H	1:B:973:ARG:HD2	1.54	0.71
1:C:375:VAL:CG2	1:C:484:VAL:HG21	2.21	0.71
1:C:435:MET:HE3	1:C:490:PRO:HB3	1.71	0.71
1:C:463:THR:CG2	1:C:464:GLY:N	2.52	0.71
1:A:104:GLN:NE2	1:B:109:ASN:CB	2.54	0.71
1:A:268:ILE:HD13	1:A:268:ILE:N	2.05	0.71
1:A:456:MET:HE3	1:A:471:SER:HB2	1.73	0.71
1:B:119:PRO:HB2	1:B:122:VAL:CG2	2.13	0.71
1:B:578:LEU:HB2	1:B:623:ASN:HB2	1.73	0.71
1:C:159:ALA:O	1:C:161:ASN:N	2.24	0.71
1:C:564:LEU:HD22	1:C:671:ILE:HD12	1.72	0.71
1:C:717:ARG:HH21	1:C:828:LEU:HD23	1.55	0.71
1:C:904:VAL:O	1:C:906:PRO:CD	2.39	0.71
1:A:578:LEU:CD1	1:A:587:THR:HA	2.20	0.71
1:A:697:GLN:O	1:A:698:ALA:C	2.34	0.71
1:A:832:ALA:O	1:A:835:LYS:N	2.23	0.71
1:B:372:VAL:CG1	1:B:373:PRO:CD	2.68	0.71
1:B:489:THR:N	1:B:490:PRO:HD2	2.04	0.71
1:C:181:GLN:OE1	1:C:767:ARG:NH1	2.24	0.71
1:C:657:GLN:HE21	1:C:657:GLN:CA	1.97	0.71
1:C:658:ILE:HD13	1:C:658:ILE:N	2.00	0.71
1:A:6:ILE:HG21	1:A:431:THR:CG2	2.21	0.71
1:C:158:VAL:HG11	1:C:177:LEU:HD21	1.71	0.71
1:C:456:MET:C	1:C:458:PHE:N	2.48	0.71
1:C:577:GLN:H	1:C:577:GLN:HE21	1.37	0.71
1:C:790:TYR:CD1	1:C:800:PRO:CB	2.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:972:LEU:H	1:C:974:PRO:CD	2.03	0.71
1:C:997:SER:O	1:C:999:ALA:N	2.24	0.71
1:A:615:PHE:CD1	1:A:615:PHE:O	2.44	0.70
1:A:691:GLY:O	1:A:692:HIS:C	2.34	0.70
1:A:817:GLU:O	1:A:818:ARG:CB	2.37	0.70
1:B:117:LEU:HD12	1:B:117:LEU:N	2.04	0.70
1:B:416:VAL:HG23	1:B:434:SER:HB3	1.73	0.70
1:C:144:ASN:ND2	1:C:320:GLY:O	2.24	0.70
1:C:203:VAL:HG13	1:C:262:LEU:HD12	1.72	0.70
1:C:685:ILE:HB	1:C:856:GLY:O	1.92	0.70
1:A:447:MET:O	1:A:448:VAL:C	2.33	0.70
1:A:711:ASP:C	1:A:713:LEU:H	1.98	0.70
1:B:355:MET:HE1	1:B:368:PRO:C	2.16	0.70
1:B:467:TYR:O	1:B:470:PHE:N	2.23	0.70
1:B:912:ALA:C	1:B:914:LEU:N	2.43	0.70
1:C:545:TYR:CE2	1:C:1025:PHE:HE1	2.06	0.70
1:C:727:PHE:CE2	1:C:783:PRO:HB3	2.25	0.70
1:A:49:TYR:HE2	1:A:121:GLU:HG2	1.56	0.70
1:A:818:ARG:CB	1:A:818:ARG:NE	2.53	0.70
1:C:105:VAL:HG12	1:C:106:GLN:N	2.04	0.70
1:C:166:ILE:CG2	1:C:166:ILE:HB	2.13	0.70
1:A:344:LEU:CD2	1:A:402:ILE:CD1	2.67	0.70
1:A:896:SER:OG	1:A:897:ILE:HD12	1.90	0.70
1:C:195:LYS:CG	1:C:196:PHE:N	2.45	0.70
1:C:641:GLU:O	1:C:650:ARG:NH2	2.24	0.70
1:C:790:TYR:HD1	1:C:800:PRO:CB	2.04	0.70
1:A:44:THR:HG22	1:A:45:ILE:N	2.00	0.70
1:A:66:GLU:CD	1:A:818:ARG:HD3	2.15	0.70
1:A:731:ILE:CG2	1:A:746:ILE:HD12	2.22	0.70
1:A:739:LEU:N	1:A:739:LEU:CD2	2.55	0.70
1:B:372:VAL:HG13	1:B:402:ILE:CD1	2.21	0.70
1:C:119:PRO:O	1:C:121:GLU:N	2.24	0.70
1:C:200:PRO:O	1:C:203:VAL:N	2.25	0.70
1:C:657:GLN:O	1:C:659:LYS:N	2.20	0.70
1:A:60:THR:O	1:A:60:THR:HG22	1.92	0.70
1:A:348:ILE:O	1:A:349:ILE:C	2.34	0.70
1:A:527:TYR:CE2	1:A:972:LEU:HD13	2.26	0.70
1:A:649:MET:HE3	1:A:653:ARG:CZ	2.22	0.70
1:A:733:GLN:HE22	1:A:743:ILE:CG2	2.05	0.70
1:B:686:ASP:HB3	1:B:823:PRO:O	1.91	0.70
1:B:690:LEU:HD13	1:B:694:LYS:HG3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:244:GLU:O	1:C:248:LYS:HG3	1.91	0.70
1:C:830:GLN:HG2	1:C:832:ALA:H	1.55	0.70
1:A:426:PRO:HG2	1:A:428:LYS:HB2	1.73	0.70
1:B:837:THR:O	1:B:841:MET:HG3	1.90	0.70
1:C:58:GLN:CD	1:C:82:SER:CB	2.49	0.70
1:C:463:THR:HG22	1:C:464:GLY:H	1.54	0.70
1:C:775:SER:O	1:C:776:GLU:O	2.10	0.70
1:A:225:VAL:C	1:A:226:LYS:O	2.33	0.70
1:A:905:VAL:HG13	1:A:935:ILE:HD13	1.74	0.70
1:B:250:LEU:HG	1:B:251:LEU:N	2.04	0.70
1:B:341:VAL:HG13	1:B:341:VAL:O	1.92	0.70
1:B:750:LEU:CD2	1:B:750:LEU:O	2.40	0.70
1:B:895:TRP:O	1:B:899:PHE:CE2	2.41	0.70
1:C:203:VAL:O	1:C:206:ALA:HB3	1.92	0.70
1:C:279:ALA:HB1	1:C:612:VAL:HG22	1.74	0.70
1:C:375:VAL:HG22	1:C:484:VAL:CG2	2.22	0.70
1:C:375:VAL:O	1:C:376:LEU:O	2.10	0.70
1:A:733:GLN:HE22	1:A:743:ILE:HG23	1.57	0.70
1:A:818:ARG:HA	1:A:819:TYR:N	2.07	0.70
1:C:141:GLY:H	1:C:326:PRO:HD2	1.55	0.70
1:C:199:THR:OG1	1:C:201:VAL:HG23	1.91	0.70
1:C:294:ALA:O	1:C:295:THR:C	2.34	0.70
1:C:978:THR:O	1:C:981:ALA:N	2.20	0.70
1:A:388:PHE:O	1:A:389:SER:HB3	1.92	0.70
1:A:952:LEU:HD12	1:A:963:ALA:HA	1.74	0.70
1:A:965:LEU:C	1:A:969:ARG:HG3	2.15	0.70
1:B:183:ALA:HB2	1:B:272:GLY:O	1.91	0.70
1:B:187:TRP:CH2	1:B:774:MET:CE	2.74	0.70
1:C:27:ILE:HG12	1:C:380:PHE:CD2	2.26	0.70
1:C:400:LEU:H	1:C:400:LEU:HD23	1.55	0.70
1:C:829:GLY:O	1:C:830:GLN:HB2	1.92	0.70
1:C:845:GLU:HG2	1:C:859:TRP:HH2	1.56	0.70
1:A:281:PHE:CE1	1:A:608:SER:HB2	2.26	0.69
1:A:447:MET:CG	1:A:887:CYS:SG	2.79	0.69
1:A:563:PHE:C	1:A:564:LEU:HD13	2.16	0.69
1:A:695:LEU:C	1:A:695:LEU:HD12	2.11	0.69
1:A:1011:MET:O	1:A:1012:VAL:C	2.34	0.69
1:B:277:ILE:O	1:B:277:ILE:HG22	1.91	0.69
1:B:404:LEU:HD23	1:B:449:LEU:HD13	1.74	0.69
1:B:469:GLN:O	1:B:472:ILE:HG22	1.92	0.69
1:C:23:GLY:HA3	1:C:377:LEU:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:711:ASP:C	1:C:713:LEU:H	2.00	0.69
1:B:531:VAL:C	1:B:535:LEU:HD12	2.18	0.69
1:B:750:LEU:O	1:B:750:LEU:HD23	1.92	0.69
1:B:881:LEU:O	1:B:883:VAL:N	2.25	0.69
1:B:923:ASN:OD1	1:B:923:ASN:O	2.10	0.69
1:C:210:GLN:HB2	1:C:249:ILE:HG12	1.72	0.69
1:C:413:VAL:CG1	1:C:414:GLU:N	2.55	0.69
1:C:790:TYR:CE1	1:C:800:PRO:HB3	2.27	0.69
1:A:118:LEU:CD2	1:A:118:LEU:CD1	2.70	0.69
1:A:180:SER:O	1:A:181:GLN:HB3	1.92	0.69
1:A:355:MET:SD	1:A:410:ILE:CG2	2.80	0.69
1:A:927:PHE:HD2	1:A:928:GLN:N	1.90	0.69
1:B:199:THR:HG22	1:B:749:THR:HG21	1.73	0.69
1:B:531:VAL:O	1:B:535:LEU:HD12	1.93	0.69
1:B:972:LEU:CD1	1:B:976:LEU:CD2	2.70	0.69
1:C:27:ILE:CG1	1:C:380:PHE:CD2	2.76	0.69
1:C:375:VAL:O	1:C:376:LEU:C	2.35	0.69
1:C:380:PHE:H	1:C:380:PHE:HD1	1.40	0.69
1:C:545:TYR:CE1	1:C:1021:PHE:HD2	2.10	0.69
1:A:72:ILE:H	1:A:72:ILE:HD12	1.57	0.69
1:A:84:SER:C	1:A:85:THR:CG2	2.65	0.69
1:A:635:ALA:C	1:A:637:ARG:H	1.99	0.69
1:B:441:ALA:O	1:B:442:LEU:C	2.32	0.69
1:B:572:PHE:HB2	1:B:666:PHE:O	1.92	0.69
1:B:700:ASN:C	1:B:702:LEU:H	2.01	0.69
1:B:1024:VAL:O	1:B:1028:VAL:HG23	1.92	0.69
1:C:350:LEU:HD13	1:C:984:LEU:HD12	1.73	0.69
1:C:535:LEU:HD23	1:C:535:LEU:H	1.57	0.69
1:A:1019:ILE:CG1	1:A:1020:PHE:CE2	2.76	0.69
1:B:293:LEU:HD22	1:B:294:ALA:H	1.55	0.69
1:B:340:VAL:HG11	1:B:395:MET:CB	2.20	0.69
1:B:463:THR:HG21	1:B:869:SER:CB	2.07	0.69
1:B:638:PRO:HD2	1:B:642:ASN:ND2	2.07	0.69
1:C:595:THR:HG23	1:C:609:VAL:HG12	1.73	0.69
1:C:762:PHE:CE1	1:C:763:ILE:C	2.70	0.69
1:C:987:MET:O	1:C:988:PRO:C	2.35	0.69
1:A:425:LEU:HB3	1:A:426:PRO:HD2	1.73	0.69
1:A:865:GLN:HA	1:A:865:GLN:HE21	1.58	0.69
1:A:991:ILE:CD1	1:A:1004:GLY:HA3	2.21	0.69
1:B:45:ILE:CD1	1:B:69:MET:CE	2.70	0.69
1:B:350:LEU:CD1	1:B:984:LEU:HD12	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:940:LYS:NZ	1:B:979:SER:OG	2.24	0.69
1:B:993:THR:O	1:B:993:THR:HG23	1.92	0.69
1:C:69:MET:HE2	1:C:92:LEU:HD21	1.74	0.69
1:C:593:GLU:O	1:C:594:VAL:C	2.34	0.69
1:A:72:ILE:CD1	1:A:72:ILE:N	2.40	0.69
1:A:136:PHE:O	1:A:137:LEU:O	2.10	0.69
1:A:162:MET:O	1:A:165:ALA:CB	2.40	0.69
1:A:330:THR:HG22	1:A:331:PRO:HD3	1.73	0.69
1:A:445:ILE:HA	1:A:448:VAL:CG1	2.22	0.69
1:B:399:VAL:HA	1:B:402:ILE:HG22	1.73	0.69
1:C:165:ALA:O	1:C:166:ILE:C	2.29	0.69
1:C:375:VAL:HG13	1:C:480:LEU:CB	2.22	0.69
1:C:411:VAL:HG12	1:C:412:VAL:HG23	1.74	0.69
1:C:449:LEU:HA	1:C:452:VAL:HG23	1.74	0.69
1:A:79:SER:C	1:A:79:SER:HA	2.10	0.69
1:A:325:TYR:N	1:A:325:TYR:CD1	2.58	0.69
1:A:349:ILE:HG22	1:A:350:LEU:CD2	2.10	0.69
1:B:143:ILE:O	1:B:322:LYS:N	2.22	0.69
1:B:932:LEU:HA	1:B:935:ILE:HD12	1.74	0.69
1:B:973:ARG:HD2	1:B:973:ARG:N	2.08	0.69
1:B:1026:PHE:C	1:B:1030:ARG:HD2	2.16	0.69
1:C:20:MET:HG3	1:C:374:VAL:HG23	1.73	0.69
1:C:76:MET:HE2	1:C:95:GLU:CA	2.21	0.69
1:C:115:MET:O	1:C:118:LEU:HD13	1.91	0.69
1:C:144:ASN:HB2	1:C:321:LEU:HD12	1.74	0.69
1:C:699:ARG:HG3	1:C:703:LEU:CD1	2.23	0.69
1:C:741:VAL:CG1	1:C:791:VAL:HG11	2.22	0.69
1:C:943:ILE:HG22	1:C:943:ILE:O	1.93	0.69
1:C:1024:VAL:HG12	1:C:1028:VAL:HG23	1.72	0.69
1:A:54:ALA:HB1	1:A:816:LEU:HG	1.75	0.69
1:A:118:LEU:HD22	1:A:119:PRO:HD3	1.75	0.69
1:A:615:PHE:O	1:A:617:PHE:N	2.25	0.69
1:A:753:ALA:HB3	1:A:754:TRP:CD1	2.27	0.69
1:B:115:MET:HE1	1:B:127:VAL:HG11	1.74	0.69
1:B:211:ASN:CG	1:B:211:ASN:O	2.35	0.69
1:B:278:ILE:HD13	1:B:584:GLN:NE2	2.08	0.69
1:B:365:THR:O	1:B:368:PRO:HD2	1.93	0.69
1:B:585:GLU:O	1:B:586:ARG:C	2.36	0.69
1:B:873:ALA:HB1	1:B:877:TYR:CE2	2.28	0.69
1:C:87:THR:CG2	1:C:87:THR:HB	2.15	0.69
1:C:115:MET:N	1:C:116:PRO:CD	2.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:339:GLU:HA	1:C:339:GLU:OE2	1.93	0.69
1:A:45:ILE:HG21	1:A:90:ILE:HD12	1.75	0.69
1:A:344:LEU:O	1:A:345:VAL:C	2.36	0.69
1:A:818:ARG:HB2	1:A:823:PRO:CA	2.23	0.69
1:A:902:MET:C	1:A:904:VAL:H	2.01	0.69
1:C:218:GLN:CB	1:C:233:SER:HA	2.17	0.69
1:C:380:PHE:O	1:C:383:LEU:HB2	1.92	0.69
1:C:711:ASP:OD2	1:C:712:MET:N	2.25	0.69
1:A:472:ILE:O	1:A:473:THR:C	2.35	0.68
1:B:426:PRO:CB	1:B:430:ALA:HB3	2.23	0.68
1:B:527:TYR:N	1:B:527:TYR:CD1	2.61	0.68
1:C:583:THR:O	1:C:584:GLN:C	2.33	0.68
1:C:873:ALA:O	1:C:877:TYR:N	2.25	0.68
1:A:100:ALA:HB1	1:A:131:LYS:CE	2.20	0.68
1:A:107:VAL:HG11	1:A:129:VAL:HG13	1.75	0.68
1:A:493:CYS:O	1:A:497:LEU:HB2	1.94	0.68
1:A:650:ARG:HG3	1:A:650:ARG:NH1	2.07	0.68
1:A:709:HIS:H	1:A:710:PRO:CD	2.07	0.68
1:B:5:PHE:O	1:B:491:ALA:CB	2.28	0.68
1:B:49:TYR:CD2	1:B:122:VAL:CA	2.64	0.68
1:B:974:PRO:C	1:B:976:LEU:H	2.01	0.68
1:C:102:ILE:O	1:C:105:VAL:N	2.27	0.68
1:C:165:ALA:O	1:C:169:THR:HB	1.93	0.68
1:C:341:VAL:O	1:C:345:VAL:HG13	1.93	0.68
1:C:948:PHE:HD1	1:C:948:PHE:H	1.41	0.68
1:C:989:LEU:HB3	1:C:1000:GLN:O	1.93	0.68
1:A:43:VAL:HG11	1:A:107:VAL:CG2	2.23	0.68
1:A:413:VAL:HG12	1:A:493:CYS:SG	2.33	0.68
1:A:709:HIS:H	1:A:710:PRO:HD3	1.58	0.68
1:A:912:ALA:N	1:A:1010:GLY:HA2	2.08	0.68
1:B:646:ALA:O	1:B:648:THR:N	2.25	0.68
1:C:1022:VAL:HA	1:C:1025:PHE:CD2	2.29	0.68
1:A:72:ILE:C	1:A:72:ILE:CB	2.66	0.68
1:A:72:ILE:HD12	1:A:72:ILE:N	2.06	0.68
1:B:192:GLU:HG3	1:B:265:VAL:HA	1.76	0.68
1:B:646:ALA:O	1:B:649:MET:N	2.25	0.68
1:C:20:MET:CG	1:C:374:VAL:HG23	2.23	0.68
1:C:158:VAL:HG12	1:C:159:ALA:N	2.08	0.68
1:C:385:ALA:O	1:C:387:GLY:N	2.24	0.68
1:C:461:GLY:HA3	1:C:869:SER:HB2	1.72	0.68
1:C:979:SER:O	1:C:983:ILE:HG13	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:105:VAL:HA	1:B:109:ASN:HD21	1.58	0.68
1:A:475:VAL:HG12	1:A:476:SER:N	2.06	0.68
1:A:544:LEU:HA	1:A:547:ILE:HD13	1.74	0.68
1:A:615:PHE:CE1	2:A:2002:DM2:O19	2.47	0.68
1:A:991:ILE:HD11	1:A:1004:GLY:CA	2.23	0.68
1:A:1004:GLY:O	1:A:1006:GLY:N	2.26	0.68
1:B:14:VAL:HG21	1:C:886:LEU:O	1.92	0.68
1:B:136:PHE:CD2	1:B:290:GLY:O	2.40	0.68
1:B:563:PHE:HB2	1:B:866:GLU:HG2	1.74	0.68
1:B:564:LEU:HB3	1:B:565:PRO:CD	2.20	0.68
1:B:764:ASP:CG	1:B:765:ARG:HH12	2.01	0.68
1:B:997:SER:O	1:B:998:GLY:C	2.36	0.68
1:C:169:THR:CB	1:C:169:THR:C	2.65	0.68
1:C:797:GLN:HA	1:C:797:GLN:NE2	2.07	0.68
1:B:881:LEU:O	1:B:882:ILE:C	2.36	0.68
1:C:155:SER:OG	1:C:179:GLY:HA3	1.92	0.68
1:C:410:ILE:O	1:C:411:VAL:C	2.35	0.68
1:C:741:VAL:HG12	1:C:791:VAL:CG1	2.23	0.68
1:A:38:ILE:O	1:A:462:SER:HA	1.94	0.68
1:A:186:ILE:CG2	1:A:773:VAL:HG23	2.24	0.68
1:A:188:MET:SD	1:A:200:PRO:HB3	2.34	0.68
1:A:646:ALA:O	1:A:650:ARG:NH1	2.26	0.68
1:A:685:ILE:HD13	1:A:857:TYR:N	2.09	0.68
1:A:1020:PHE:O	1:A:1023:PRO:HD2	1.94	0.68
1:B:456:MET:HB2	1:B:467:TYR:HD2	1.59	0.68
1:B:764:ASP:OD1	1:B:765:ARG:NH1	2.26	0.68
1:C:115:MET:N	1:C:116:PRO:HD3	2.08	0.68
1:C:337:ILE:CD1	1:C:391:ASN:HA	2.22	0.68
1:A:780:ARG:NH2	1:C:223:PRO:O	2.26	0.68
1:B:78:MET:H	1:B:820:ASN:ND2	1.92	0.68
1:B:136:PHE:HE1	1:B:617:PHE:CE1	2.10	0.68
1:B:775:SER:O	1:B:780:ARG:NE	2.24	0.68
1:B:904:VAL:HG13	1:B:907:LEU:CD1	2.16	0.68
1:C:51:GLY:O	1:C:52:ALA:O	2.11	0.68
1:C:254:ASN:O	1:C:257:GLY:N	2.27	0.68
1:C:409:ALA:O	1:C:410:ILE:O	2.11	0.68
1:A:391:ASN:H	1:A:394:THR:HG22	1.58	0.68
1:A:596:HIS:O	1:A:598:TYR:N	2.26	0.68
1:A:691:GLY:O	1:A:694:LYS:N	2.27	0.68
1:B:14:VAL:HG11	1:C:890:ALA:CB	2.17	0.68
1:B:119:PRO:O	1:B:122:VAL:HB	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:219:LEU:HD23	1:B:234:ILE:CD1	2.24	0.68
1:B:245:GLU:HA	1:B:248:LYS:HG2	1.75	0.68
1:B:943:ILE:O	1:B:947:GLU:HB3	1.93	0.68
1:C:4:PHE:HB3	1:C:8:ARG:HH22	1.58	0.68
1:C:452:VAL:HG11	1:C:935:ILE:HG22	1.75	0.68
1:C:528:THR:CG2	1:C:969:ARG:HB3	2.24	0.68
1:A:60:THR:HG22	1:A:119:PRO:HG3	1.73	0.68
1:A:843:LEU:HD22	1:A:843:LEU:O	1.93	0.68
1:B:49:TYR:CE2	1:B:125:GLN:HB3	2.26	0.68
1:B:901:VAL:HG11	1:B:943:ILE:HD12	1.76	0.68
1:B:972:LEU:HD13	1:B:976:LEU:HG	1.74	0.68
1:C:65:ILE:CG2	1:C:65:ILE:HD12	2.23	0.68
1:C:152:GLU:HB2	1:C:182:TYR:OH	1.93	0.68
1:A:582:ALA:HB3	1:A:623:ASN:HA	1.75	0.67
1:A:737:GLN:NE2	1:C:250:LEU:HG	2.09	0.67
1:A:1015:THR:O	1:A:1018:ALA:N	2.28	0.67
1:B:899:PHE:C	1:B:903:LEU:HD13	2.19	0.67
1:C:466:ILE:HD13	1:C:466:ILE:N	2.07	0.67
1:C:762:PHE:HE1	1:C:764:ASP:N	1.91	0.67
1:C:819:TYR:HH	1:C:860:THR:HG23	1.57	0.67
1:A:89:GLN:C	1:A:90:ILE:HG13	2.18	0.67
1:A:781:MET:HE1	1:C:228:GLN:CD	2.19	0.67
1:B:45:ILE:HD11	1:B:69:MET:CE	2.24	0.67
1:B:128:SER:O	1:B:129:VAL:CG2	2.43	0.67
1:B:150:THR:H	1:B:153:ASP:CB	2.04	0.67
1:B:879:ILE:HG22	1:B:880:SER:N	2.08	0.67
1:C:102:ILE:CG2	1:C:103:ALA:H	1.87	0.67
1:C:376:LEU:O	1:C:379:THR:N	2.27	0.67
1:C:988:PRO:O	1:C:990:VAL:N	2.27	0.67
1:B:465:ALA:H	1:B:468:ARG:HD2	1.58	0.67
1:B:764:ASP:HB3	1:B:769:LYS:HD3	1.77	0.67
1:B:1029:VAL:O	1:B:1031:ARG:N	2.28	0.67
1:C:44:THR:HA	1:C:91:THR:HA	1.76	0.67
1:C:141:GLY:HA3	1:C:324:VAL:HG22	1.77	0.67
1:C:699:ARG:O	1:C:700:ASN:C	2.32	0.67
1:C:948:PHE:O	1:C:952:LEU:HG	1.94	0.67
1:C:1023:PRO:O	1:C:1024:VAL:C	2.36	0.67
1:B:695:LEU:CD2	1:B:825:MET:HG3	2.25	0.67
1:C:289:LEU:H	1:C:289:LEU:CD1	1.93	0.67
1:C:420:MET:HE1	1:C:425:LEU:HD23	1.75	0.67
1:C:588:GLN:OE1	1:C:588:GLN:HA	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:648:THR:O	1:C:651:ALA:HB3	1.93	0.67
1:C:898:PRO:HA	1:C:901:VAL:HG23	1.77	0.67
1:C:986:VAL:CG1	1:C:986:VAL:O	2.42	0.67
1:A:108:GLN:HA	1:A:111:LEU:HB2	1.76	0.67
1:A:324:VAL:HG12	1:A:325:TYR:H	1.59	0.67
1:B:372:VAL:CB	1:B:373:PRO:HD2	2.25	0.67
1:B:902:MET:O	1:B:905:VAL:HG23	1.94	0.67
1:C:45:ILE:CG2	1:C:111:LEU:HD22	2.23	0.67
1:C:214:VAL:HG13	1:C:215:ALA:N	2.01	0.67
1:C:548:ILE:CD1	1:C:1017:LEU:HD11	2.23	0.67
1:A:78:MET:O	1:A:820:ASN:HA	1.94	0.67
1:A:156:ASP:OD1	1:A:182:TYR:CD2	2.48	0.67
1:A:1011:MET:HA	1:A:1011:MET:CE	2.24	0.67
1:B:75:LEU:HA	1:B:94:PHE:CD1	2.30	0.67
1:B:194:ASN:HB2	1:B:798:MET:HG3	1.77	0.67
1:B:228:GLN:HE22	1:C:782:LEU:HD23	1.59	0.67
1:B:395:MET:O	1:B:396:PHE:O	2.13	0.67
1:B:557:VAL:O	1:B:558:ARG:HG3	1.95	0.67
1:C:102:ILE:HG23	1:C:106:GLN:CG	2.24	0.67
1:C:668:LEU:HD23	1:C:668:LEU:H	1.58	0.67
1:A:108:GLN:OE1	1:B:112:GLN:NE2	2.28	0.67
1:A:388:PHE:HD1	1:A:388:PHE:H	1.43	0.67
1:A:402:ILE:CG2	1:A:403:GLY:N	2.58	0.67
1:A:890:ALA:HB1	1:C:11:PHE:CD1	2.30	0.67
1:C:453:PHE:O	1:C:455:PRO:HD2	1.93	0.67
1:C:1025:PHE:C	1:C:1029:VAL:HG23	2.17	0.67
1:B:196:PHE:CE1	1:B:260:VAL:HG13	2.30	0.67
1:B:441:ALA:HB2	1:B:947:GLU:CG	2.24	0.67
1:B:1022:VAL:HG22	1:B:1023:PRO:CD	2.25	0.67
1:C:3:ASN:ND2	1:C:432:ARG:HG3	2.09	0.67
1:C:74:ASN:HB3	1:C:95:GLU:HB2	1.76	0.67
1:C:351:VAL:HG22	1:C:981:ALA:HB1	1.76	0.67
1:C:365:THR:O	1:C:367:ILE:N	2.27	0.67
1:C:586:ARG:O	1:C:586:ARG:HG2	1.92	0.67
1:A:153:ASP:N	1:A:153:ASP:OD1	2.28	0.67
1:A:375:VAL:CG2	1:A:484:VAL:HG13	2.23	0.67
1:A:495:THR:O	1:A:495:THR:CG2	2.41	0.67
1:A:800:PRO:O	1:A:803:ALA:CB	2.42	0.67
1:A:893:GLU:CG	1:C:10:ILE:HD13	2.24	0.67
1:B:49:TYR:CG	1:B:122:VAL:HG22	2.29	0.67
1:B:176:GLN:HE21	1:B:177:LEU:N	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:765:ARG:HH11	1:B:765:ARG:HB2	1.60	0.67
1:C:450:SER:H	1:C:478:MET:CE	2.08	0.67
1:C:983:ILE:HG12	1:C:1011:MET:HB3	1.76	0.67
1:A:56:THR:O	1:A:60:THR:OG1	2.12	0.67
1:A:592:ASN:O	1:A:595:THR:HB	1.95	0.67
1:A:717:ARG:HH12	1:A:828:LEU:CD1	2.07	0.67
1:B:62:THR:CG2	1:B:88:VAL:HG11	2.25	0.67
1:B:193:LEU:O	1:B:196:PHE:N	2.28	0.67
1:C:545:TYR:CZ	1:C:1021:PHE:CD2	2.83	0.67
1:C:893:GLU:O	1:C:893:GLU:HG3	1.94	0.67
1:A:54:ALA:O	1:A:57:VAL:N	2.20	0.66
1:A:329:THR:HG23	1:A:329:THR:O	1.93	0.66
1:A:659:LYS:HG2	1:A:660:ASP:OD1	1.94	0.66
1:A:949:ALA:O	1:A:953:MET:HG3	1.95	0.66
1:C:324:VAL:CG2	1:C:325:TYR:N	2.54	0.66
1:C:605:ASN:HB3	1:C:637:ARG:HD3	1.77	0.66
1:C:679:GLY:CA	1:C:830:GLN:HA	2.24	0.66
1:C:807:SER:O	1:C:807:SER:OG	2.12	0.66
1:C:914:LEU:O	1:C:918:PHE:HB2	1.94	0.66
1:A:72:ILE:CG2	1:A:106:GLN:NE2	2.32	0.66
1:A:108:GLN:CG	1:B:112:GLN:CD	2.64	0.66
1:A:196:PHE:O	1:A:197:GLN:HB2	1.94	0.66
1:A:234:ILE:O	1:B:52:ALA:HB1	1.95	0.66
1:A:560:PRO:O	1:A:923:ASN:N	2.29	0.66
1:A:572:PHE:C	1:A:572:PHE:CD1	2.73	0.66
1:A:579:PRO:O	1:A:580:ALA:C	2.39	0.66
1:A:873:ALA:HB3	1:A:874:PRO:CD	2.19	0.66
1:A:966:ASP:C	1:A:969:ARG:HB2	2.20	0.66
1:B:47:ALA:HB3	1:B:88:VAL:HB	1.76	0.66
1:C:20:MET:CG	1:C:374:VAL:CG2	2.74	0.66
1:C:145:THR:HG22	1:C:146:ASP:N	2.10	0.66
1:A:659:LYS:HG2	1:A:660:ASP:CG	2.20	0.66
1:A:886:LEU:CD2	1:C:17:ILE:HG22	2.25	0.66
1:A:893:GLU:OE1	1:C:8:ARG:HB3	1.95	0.66
1:B:572:PHE:HZ	1:B:598:TYR:HE1	1.43	0.66
1:C:322:LYS:HG2	1:C:323:ILE:O	1.95	0.66
1:C:606:VAL:O	1:C:606:VAL:HG12	1.94	0.66
1:A:385:ALA:C	1:A:386:PHE:HD1	2.04	0.66
1:B:90:ILE:CG2	1:B:91:THR:N	2.58	0.66
1:B:754:TRP:HZ2	1:B:786:ILE:HA	1.60	0.66
1:B:912:ALA:O	1:B:914:LEU:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:940:LYS:O	1:B:944:LEU:HD12	1.95	0.66
1:C:244:GLU:CA	1:C:263:ARG:HH22	2.09	0.66
1:C:278:ILE:O	1:C:278:ILE:HG22	1.85	0.66
1:C:527:TYR:CD2	1:C:972:LEU:HD13	2.29	0.66
1:C:746:ILE:HG21	1:C:804:PHE:CE1	2.30	0.66
1:A:301:ASP:O	1:A:304:ALA:HB3	1.95	0.66
1:A:600:THR:HG22	1:A:601:LYS:N	2.09	0.66
1:A:875:SER:O	1:A:879:ILE:HD13	1.95	0.66
1:B:638:PRO:HD2	1:B:642:ASN:HD22	1.61	0.66
1:C:35:TYR:CD2	1:C:671:ILE:HG12	2.31	0.66
1:C:425:LEU:H	1:C:426:PRO:HD3	1.61	0.66
1:C:721:LEU:HD11	1:C:815:ARG:O	1.96	0.66
1:A:199:THR:HB	1:A:200:PRO:HD2	1.78	0.66
1:B:658:ILE:HG22	1:B:658:ILE:O	1.94	0.66
1:B:946:VAL:CG2	1:B:1026:PHE:CE1	2.70	0.66
1:C:143:ILE:HD13	1:C:144:ASN:N	2.07	0.66
1:C:407:ASP:OD2	1:C:940:LYS:HD3	1.96	0.66
1:A:240:LEU:HD23	1:A:240:LEU:H	1.60	0.66
1:A:298:ASN:O	1:A:300:LEU:N	2.28	0.66
1:A:472:ILE:HD12	1:A:472:ILE:N	2.11	0.66
1:A:558:ARG:O	1:A:560:PRO:HD3	1.96	0.66
1:A:893:GLU:HG3	1:C:10:ILE:HB	1.78	0.66
1:B:254:ASN:HB2	1:B:258:SER:OG	1.95	0.66
1:B:359:LEU:O	1:B:360:GLN:C	2.38	0.66
1:B:703:LEU:O	1:B:704:ALA:C	2.39	0.66
1:B:759:VAL:HB	1:B:771:VAL:O	1.96	0.66
1:B:908:GLY:C	1:B:910:ILE:H	2.03	0.66
1:C:439:GLN:C	1:C:441:ALA:N	2.52	0.66
1:A:705:GLU:CG	1:A:847:LEU:HD13	2.26	0.66
1:A:894:SER:HB2	1:A:897:ILE:CD1	2.25	0.66
1:B:17:ILE:HA	1:B:20:MET:HG3	1.77	0.66
1:B:24:GLY:O	1:B:27:ILE:HB	1.96	0.66
1:B:280:GLU:HG2	1:B:611:ALA:HB3	1.78	0.66
1:C:142:VAL:HB	1:C:287:SER:O	1.95	0.66
1:A:314:GLU:H	1:A:315:PRO:CD	2.09	0.66
1:A:354:VAL:O	1:A:355:MET:HE3	1.95	0.66
1:A:609:VAL:HG23	1:A:609:VAL:O	1.96	0.66
1:A:961:ILE:HG12	1:A:1027:VAL:HG11	1.77	0.66
1:B:940:LYS:O	1:B:941:ASN:C	2.38	0.66
1:C:137:LEU:HG	1:C:293:LEU:HG	1.77	0.66
1:C:204:ILE:O	1:C:206:ALA:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:562:SER:HG	1:A:563:PHE:H	1.40	0.66
1:A:681:ASP:O	1:A:859:TRP:CE3	2.49	0.66
1:B:1023:PRO:O	1:B:1024:VAL:C	2.39	0.66
1:C:578:LEU:HA	1:C:661:ALA:HB1	1.76	0.66
1:C:729:ILE:HG22	1:C:729:ILE:O	1.95	0.66
1:A:200:PRO:HG2	1:A:749:THR:HA	1.78	0.65
1:A:250:LEU:CD1	1:B:734:GLU:HB3	2.25	0.65
1:A:568:ASP:OD2	1:A:644:VAL:HG23	1.96	0.65
1:A:821:GLY:CA	1:C:168:ARG:NH1	2.59	0.65
1:B:74:ASN:ND2	1:B:98:THR:CB	2.54	0.65
1:B:92:LEU:N	1:B:92:LEU:CD2	2.58	0.65
1:B:160:ALA:HB1	1:B:767:ARG:CD	2.27	0.65
1:B:177:LEU:CD1	1:B:178:PHE:N	2.54	0.65
1:B:250:LEU:HD11	1:B:253:VAL:HG22	1.77	0.65
1:B:986:VAL:O	1:B:987:MET:C	2.37	0.65
1:C:441:ALA:HB2	1:C:947:GLU:OE2	1.95	0.65
1:C:663:VAL:O	1:C:664:PHE:HD2	1.79	0.65
1:A:681:ASP:O	1:A:859:TRP:HE3	1.79	0.65
1:A:889:ALA:HB2	1:A:898:PRO:HG3	1.78	0.65
1:B:331:PRO:CG	1:B:332:PHE:N	2.59	0.65
1:B:393:LEU:CD1	1:B:466:ILE:HG22	2.27	0.65
1:B:522:LYS:C	1:B:524:THR:H	2.04	0.65
1:B:651:ALA:O	1:B:655:PHE:CD2	2.49	0.65
1:C:200:PRO:O	1:C:202:ASP:N	2.28	0.65
1:C:314:GLU:HG2	1:C:317:PHE:HZ	1.60	0.65
1:A:110:LYS:NZ	1:A:110:LYS:HD2	2.10	0.65
1:A:221:GLY:N	1:B:622:GLN:HE22	1.93	0.65
1:A:676:THR:C	1:A:677:ALA:O	2.39	0.65
1:A:858:ASP:OD1	1:C:312:LYS:HE2	1.97	0.65
1:A:886:LEU:HD23	1:C:17:ILE:HG22	1.78	0.65
1:B:112:GLN:O	1:B:116:PRO:HD3	1.95	0.65
1:B:578:LEU:O	1:B:623:ASN:ND2	2.28	0.65
1:B:753:ALA:O	1:B:780:ARG:HD3	1.95	0.65
1:B:888:LEU:HB2	1:B:898:PRO:HG3	1.78	0.65
1:C:30:LEU:HD23	1:C:384:ALA:HB2	1.70	0.65
1:C:517:ASN:HD22	1:C:517:ASN:C	2.04	0.65
1:A:208:LYS:CE	1:A:759:VAL:HG13	2.26	0.65
1:A:367:ILE:HG12	1:A:493:CYS:CB	2.23	0.65
1:A:740:GLY:O	1:A:794:ALA:N	2.29	0.65
1:B:111:LEU:HD21	1:B:115:MET:HE2	1.79	0.65
1:B:896:SER:HA	1:B:899:PHE:CD2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:355:MET:HE1	1:C:977:MET:O	1.97	0.65
1:C:699:ARG:HG3	1:C:703:LEU:HD11	1.78	0.65
1:C:817:GLU:O	1:C:818:ARG:CG	2.44	0.65
1:A:923:ASN:OD1	1:A:928:GLN:NE2	2.29	0.65
1:C:39:ALA:HB2	1:C:673:GLU:HG3	1.79	0.65
1:C:190:PRO:O	1:C:191:ASN:C	2.39	0.65
1:C:829:GLY:O	1:C:830:GLN:CB	2.44	0.65
1:A:155:SER:CB	1:A:179:GLY:HA3	2.26	0.65
1:A:186:ILE:HG22	1:A:186:ILE:O	1.97	0.65
1:A:778:LYS:CB	1:A:779:TYR:CE1	2.80	0.65
1:A:993:THR:CG2	1:A:1000:GLN:OE1	2.33	0.65
1:B:775:SER:CB	1:B:780:ARG:HD3	2.24	0.65
1:B:859:TRP:HB3	1:B:863:SER:HB3	1.79	0.65
1:B:941:ASN:ND2	1:B:1015:THR:HA	2.11	0.65
1:C:216:ALA:HB3	1:C:234:ILE:O	1.96	0.65
1:C:259:ARG:HB2	1:C:259:ARG:NH1	2.12	0.65
1:C:576:VAL:HG12	1:C:663:VAL:HG22	1.78	0.65
1:C:609:VAL:HG22	1:C:629:VAL:HG22	1.78	0.65
1:A:190:PRO:HD3	1:A:789:TRP:CZ2	2.32	0.65
1:A:395:MET:HE2	1:A:395:MET:N	2.12	0.65
1:A:513:PHE:HA	1:A:516:PHE:HD2	1.61	0.65
1:A:926:TYR:CD1	1:A:999:ALA:CB	2.79	0.65
1:B:120:GLN:HG2	1:B:124:GLN:HG2	1.78	0.65
1:B:246:PHE:O	1:B:262:LEU:HD12	1.97	0.65
1:C:184:MET:CE	1:C:184:MET:HA	2.21	0.65
1:C:279:ALA:HB1	1:C:611:ALA:O	1.96	0.65
1:C:647:ILE:O	1:C:651:ALA:HB2	1.97	0.65
1:A:72:ILE:HG23	1:A:106:GLN:HE21	0.64	0.65
1:A:391:ASN:O	1:A:393:LEU:N	2.30	0.65
1:A:739:LEU:HD23	1:A:739:LEU:H	1.61	0.65
1:A:960:LEU:CB	1:A:1031:ARG:HH21	2.09	0.65
1:B:351:VAL:HG11	1:B:981:ALA:HB1	1.78	0.65
1:B:498:LYS:NZ	1:B:498:LYS:HB3	2.12	0.65
1:C:210:GLN:HB2	1:C:249:ILE:CG1	2.26	0.65
1:C:290:GLY:O	1:C:291:ILE:CG1	2.43	0.65
1:C:938:SER:HA	1:C:941:ASN:HD21	1.62	0.65
1:A:193:LEU:HB2	1:A:265:VAL:HG13	1.79	0.65
1:B:160:ALA:HB1	1:B:767:ARG:HD3	1.79	0.65
1:B:590:VAL:O	1:B:594:VAL:HG23	1.97	0.65
1:C:35:TYR:HE2	1:C:392:THR:HG21	1.62	0.65
1:C:60:THR:CG2	1:C:60:THR:CA	2.70	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:892:TYR:CZ	1:C:946:VAL:HB	2.32	0.65
1:C:1016:VAL:HA	1:C:1019:ILE:HD11	1.79	0.65
1:A:952:LEU:HD12	1:A:963:ALA:CA	2.26	0.65
1:A:966:ASP:CA	1:A:969:ARG:HB2	2.26	0.65
1:B:142:VAL:N	1:B:287:SER:O	2.29	0.65
1:C:58:GLN:HE21	1:C:62:THR:HG21	1.62	0.65
1:C:182:TYR:HA	1:C:271:GLY:O	1.97	0.65
1:C:445:ILE:HG21	1:C:940:LYS:HE3	1.79	0.65
1:C:644:VAL:CG1	1:C:667:ASN:HB2	2.27	0.65
1:C:898:PRO:O	1:C:901:VAL:HG23	1.97	0.65
1:A:300:LEU:HD13	1:A:334:LYS:HZ3	1.62	0.64
1:A:400:LEU:HD13	1:A:929:VAL:CG1	2.27	0.64
1:A:543:VAL:O	1:A:547:ILE:HD12	1.97	0.64
1:B:474:ILE:O	1:B:477:ALA:N	2.25	0.64
1:C:35:TYR:CE2	1:C:392:THR:HG21	2.33	0.64
1:A:23:GLY:HA3	1:A:377:LEU:O	1.95	0.64
1:A:785:ASP:C	1:A:787:GLY:N	2.46	0.64
1:A:790:TYR:CE1	1:A:800:PRO:HB3	2.32	0.64
1:A:1024:VAL:C	1:A:1028:VAL:HG23	2.23	0.64
1:B:560:PRO:HB2	1:B:922:THR:HB	1.78	0.64
1:B:912:ALA:C	1:B:914:LEU:H	2.02	0.64
1:B:924:ASP:HB3	1:B:926:TYR:N	2.12	0.64
1:B:938:SER:HB2	1:B:1014:ALA:HB1	1.78	0.64
1:C:117:LEU:C	1:C:118:LEU:HD12	2.20	0.64
1:C:758:TYR:CD1	1:C:770:LYS:HE2	2.31	0.64
1:C:779:TYR:CD2	1:C:779:TYR:N	2.59	0.64
1:C:904:VAL:O	1:C:906:PRO:N	2.30	0.64
1:C:1007:VAL:O	1:C:1008:MET:C	2.41	0.64
1:A:72:ILE:HD13	1:A:72:ILE:N	2.01	0.64
1:A:235:ILE:O	1:A:235:ILE:CG2	2.44	0.64
1:A:671:ILE:O	1:A:672:VAL:C	2.39	0.64
1:B:13:TRP:HA	1:B:488:LEU:CD2	2.27	0.64
1:B:213:GLN:HG2	1:C:56:THR:HG23	1.79	0.64
1:C:994:GLY:O	1:C:997:SER:N	2.26	0.64
1:A:823:PRO:CB	1:A:823:PRO:N	2.60	0.64
1:B:55:LYS:HE3	1:B:59:ASP:OD2	1.97	0.64
1:B:213:GLN:HE21	1:B:239:ARG:HD2	1.62	0.64
1:B:422:GLU:CD	1:B:422:GLU:N	2.55	0.64
1:B:878:ALA:O	1:B:882:ILE:HG12	1.98	0.64
1:B:987:MET:HE1	1:B:1008:MET:SD	2.38	0.64
1:A:447:MET:N	1:A:447:MET:SD	2.70	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:865:GLN:HA	1:A:865:GLN:NE2	2.11	0.64
1:A:901:VAL:HG13	1:A:942:ALA:HB1	1.78	0.64
1:B:58:GLN:HG3	1:B:82:SER:HB3	1.80	0.64
1:B:99:ASP:O	1:B:100:ALA:C	2.38	0.64
1:B:194:ASN:ND2	1:B:790:TYR:HD2	1.94	0.64
1:B:753:ALA:HB3	1:B:754:TRP:HD1	1.62	0.64
1:B:894:SER:OG	1:B:897:ILE:HB	1.97	0.64
1:B:927:PHE:CZ	1:B:931:LEU:HD21	2.32	0.64
1:C:73:ASP:O	1:C:74:ASN:HB2	1.96	0.64
1:C:385:ALA:C	1:C:387:GLY:H	2.05	0.64
1:C:590:VAL:O	1:C:594:VAL:HG23	1.97	0.64
1:C:699:ARG:CG	1:C:703:LEU:HD11	2.27	0.64
1:B:26:ALA:HB1	1:B:384:ALA:HB2	1.79	0.64
1:B:170:SER:O	1:B:172:VAL:HG23	1.98	0.64
1:A:111:LEU:O	1:A:112:GLN:C	2.36	0.64
1:A:118:LEU:CD2	1:A:118:LEU:HA	2.28	0.64
1:A:167:SER:HA	1:A:172:VAL:HG11	1.79	0.64
1:A:615:PHE:CZ	2:A:2002:DM2:H1	2.32	0.64
1:B:7:ASP:O	1:B:8:ARG:HB2	1.96	0.64
1:A:301:ASP:OD1	1:A:301:ASP:N	2.30	0.64
1:A:926:TYR:CE1	1:A:999:ALA:HB2	2.13	0.64
1:B:193:LEU:HD23	1:B:265:VAL:HG11	1.80	0.64
1:B:463:THR:O	1:B:466:ILE:N	2.25	0.64
1:B:468:ARG:O	1:B:469:GLN:C	2.40	0.64
1:B:470:PHE:O	1:B:473:THR:N	2.30	0.64
1:B:598:TYR:CE2	1:B:655:PHE:CZ	2.85	0.64
1:B:598:TYR:HD1	1:B:606:VAL:HG21	1.62	0.64
1:C:13:TRP:CD1	1:C:488:LEU:HD11	2.31	0.64
1:C:50:PRO:CG	1:C:125:GLN:HE22	2.11	0.64
1:C:200:PRO:O	1:C:201:VAL:C	2.39	0.64
1:C:238:THR:CG2	1:C:239:ARG:N	1.80	0.64
1:C:785:ASP:O	1:C:786:ILE:C	2.41	0.64
1:C:851:LEU:O	1:C:852:PRO:O	2.16	0.64
1:C:1016:VAL:O	1:C:1019:ILE:HG12	1.97	0.64
1:A:376:LEU:O	1:A:378:GLY:N	2.31	0.64
1:A:406:VAL:HG12	1:A:407:ASP:N	2.13	0.64
1:B:945:ILE:CD1	1:B:1022:VAL:HG21	2.28	0.64
1:B:992:SER:CB	1:B:1000:GLN:NE2	2.61	0.64
1:C:49:TYR:HB3	1:C:52:ALA:HB3	1.79	0.64
1:C:149:MET:HB2	1:C:153:ASP:HB2	1.80	0.64
1:C:633:ASP:OD1	1:C:634:TRP:NE1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:655:PHE:CD1	1:C:663:VAL:HG11	2.33	0.64
1:C:1024:VAL:C	1:C:1028:VAL:HG23	2.23	0.64
1:A:695:LEU:HD12	1:A:695:LEU:O	1.98	0.64
1:B:705:GLU:HB3	1:B:847:LEU:HD21	1.80	0.64
1:B:790:TYR:CD1	1:B:800:PRO:CB	2.79	0.64
1:B:1022:VAL:CG2	1:B:1023:PRO:HD2	2.25	0.64
1:B:1026:PHE:HB3	1:B:1030:ARG:CZ	2.28	0.64
1:C:527:TYR:HD2	1:C:972:LEU:HD13	1.62	0.64
1:C:683:GLU:HG3	1:C:819:TYR:CG	2.32	0.64
1:C:977:MET:O	1:C:981:ALA:HB2	1.97	0.64
1:A:426:PRO:O	1:A:430:ALA:HB2	1.98	0.63
1:A:728:LYS:C	1:A:729:ILE:O	2.38	0.63
1:A:873:ALA:CB	1:A:874:PRO:HD2	2.18	0.63
1:B:225:VAL:H	1:C:781:MET:HE1	1.63	0.63
1:B:945:ILE:CB	1:B:1026:PHE:CE2	2.80	0.63
1:C:35:TYR:CB	1:C:671:ILE:HG23	2.29	0.63
1:C:38:ILE:HG21	1:C:466:ILE:HD11	1.80	0.63
1:A:35:TYR:HB3	1:A:36:PRO:HD2	1.79	0.63
1:A:115:MET:HB2	1:A:116:PRO:HD2	1.79	0.63
1:A:300:LEU:HD13	1:A:334:LYS:NZ	2.14	0.63
1:A:924:ASP:O	1:A:927:PHE:N	2.30	0.63
1:B:58:GLN:NE2	1:B:816:LEU:CB	2.61	0.63
1:B:168:ARG:HD3	1:C:69:MET:O	1.99	0.63
1:B:836:SER:O	1:B:839:GLU:N	2.28	0.63
1:B:870:GLY:C	1:B:872:GLN:H	2.02	0.63
1:C:80:SER:O	1:C:818:ARG:HG3	1.98	0.63
1:C:600:THR:O	1:C:603:LYS:HB2	1.98	0.63
1:C:684:LEU:HD11	1:C:855:VAL:CG1	2.28	0.63
1:C:713:LEU:CG	1:C:832:ALA:O	2.47	0.63
1:A:6:ILE:HG21	1:A:431:THR:HG22	1.78	0.63
1:B:199:THR:C	1:B:201:VAL:N	2.51	0.63
1:B:527:TYR:O	1:B:530:SER:N	2.32	0.63
1:B:873:ALA:C	1:B:875:SER:H	2.06	0.63
1:C:169:THR:N	1:C:169:THR:C	2.52	0.63
1:C:211:ASN:OD1	1:C:246:PHE:CE2	2.51	0.63
1:C:643:LYS:O	1:C:647:ILE:HG12	1.97	0.63
1:A:655:PHE:CD2	1:A:663:VAL:CG1	2.80	0.63
1:A:787:GLY:O	1:A:789:TRP:N	2.32	0.63
1:A:952:LEU:HD12	1:A:963:ALA:HB1	1.79	0.63
1:B:396:PHE:O	1:B:397:GLY:C	2.39	0.63
1:B:525:HIS:CB	1:B:529:ASP:OD2	2.42	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:746:ILE:O	1:C:749:THR:HB	1.99	0.63
1:A:324:VAL:HG12	1:A:325:TYR:N	2.12	0.63
1:B:28:LEU:HD13	1:B:29:LYS:HD3	1.79	0.63
1:B:178:PHE:HE1	1:B:615:PHE:CE2	2.17	0.63
1:B:213:GLN:NE2	1:B:239:ARG:HB2	2.13	0.63
1:B:217:GLY:HA3	1:C:754:TRP:O	1.98	0.63
1:B:745:ASP:O	1:B:746:ILE:C	2.41	0.63
1:C:39:ALA:HB1	1:C:673:GLU:HG3	1.81	0.63
1:C:184:MET:HG3	1:C:246:PHE:CD1	2.34	0.63
1:C:228:GLN:HG3	1:C:229:GLN:O	1.98	0.63
1:C:291:ILE:CD1	1:C:291:ILE:HG21	2.28	0.63
1:C:818:ARG:N	1:C:824:SER:HB3	2.13	0.63
1:A:429:GLU:O	1:A:430:ALA:C	2.41	0.63
1:A:694:LYS:O	1:A:695:LEU:C	2.41	0.63
1:A:735:LYS:O	1:A:739:LEU:HD23	1.98	0.63
1:B:255:GLN:HG3	1:B:256:ASP:H	1.63	0.63
1:B:363:ARG:HG3	1:B:363:ARG:O	1.97	0.63
1:B:493:CYS:O	1:B:495:THR:N	2.30	0.63
1:B:915:ALA:HB2	1:B:1009:GLY:HA3	1.79	0.63
1:A:115:MET:O	1:A:118:LEU:N	2.31	0.63
1:A:379:THR:HA	1:A:382:VAL:HG21	1.79	0.63
1:B:34:GLN:NE2	1:B:333:VAL:HG23	2.14	0.63
1:B:146:ASP:O	1:B:147:GLY:C	2.42	0.63
1:B:443:VAL:HG12	1:B:444:GLY:N	2.12	0.63
1:B:560:PRO:HB2	1:B:922:THR:OG1	1.98	0.63
1:B:754:TRP:CZ2	1:B:786:ILE:HG12	2.34	0.63
1:B:792:ARG:N	1:B:798:MET:CE	2.60	0.63
1:B:941:ASN:O	1:B:942:ALA:C	2.42	0.63
1:C:451:ALA:O	1:C:880:SER:OG	2.16	0.63
1:C:988:PRO:O	1:C:989:LEU:C	2.41	0.63
1:A:231:ASN:CG	1:B:622:GLN:HE21	2.06	0.63
1:A:444:GLY:O	1:A:448:VAL:HG12	1.99	0.63
1:A:513:PHE:C	1:A:515:TRP:H	2.06	0.63
1:B:158:VAL:HG12	1:B:162:MET:HE2	1.81	0.63
1:B:358:PHE:CD2	1:B:977:MET:HB3	2.34	0.63
1:B:976:LEU:O	1:B:980:LEU:HB2	1.99	0.63
1:C:184:MET:CG	1:C:246:PHE:CD1	2.82	0.63
1:C:324:VAL:CG2	1:C:326:PRO:HD3	2.28	0.63
1:C:589:LYS:O	1:C:592:ASN:HB2	1.98	0.63
1:B:4:PHE:HB3	1:B:5:PHE:CD1	2.34	0.63
1:B:6:ILE:HG21	1:B:432:ARG:HG3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:49:TYR:CE1	1:B:122:VAL:HG13	2.34	0.63
1:B:560:PRO:HB2	1:B:922:THR:CB	2.29	0.63
1:B:723:ASP:OD2	1:B:723:ASP:N	2.24	0.63
1:B:750:LEU:C	1:B:750:LEU:HD22	2.24	0.63
1:B:801:PHE:C	1:B:803:ALA:H	2.05	0.63
1:B:889:ALA:O	1:B:890:ALA:C	2.41	0.63
1:C:289:LEU:N	1:C:289:LEU:CD1	2.44	0.63
1:C:337:ILE:HD11	1:C:391:ASN:HA	1.79	0.63
1:C:527:TYR:OH	1:C:968:VAL:CG1	2.47	0.63
1:C:595:THR:HG23	1:C:609:VAL:HG11	1.80	0.63
1:A:178:PHE:HB2	1:A:288:GLY:C	2.24	0.62
1:A:255:GLN:C	1:A:256:ASP:OD1	2.42	0.62
1:B:470:PHE:O	1:B:471:SER:O	2.16	0.62
1:B:648:THR:O	1:B:652:THR:CG2	2.45	0.62
1:B:964:THR:HG22	1:B:965:LEU:HD23	1.75	0.62
1:C:375:VAL:HG22	1:C:484:VAL:HG21	1.80	0.62
1:C:685:ILE:CG2	1:C:687:GLN:HG2	2.29	0.62
1:C:966:ASP:OD1	1:C:969:ARG:CD	2.41	0.62
1:A:117:LEU:HD12	1:C:124:GLN:O	1.97	0.62
1:A:138:MET:CE	1:A:306:ILE:HD13	2.29	0.62
1:B:49:TYR:OH	1:B:127:VAL:HG13	1.99	0.62
1:B:154:ILE:O	1:B:158:VAL:HG22	1.99	0.62
1:B:226:LYS:CE	1:B:226:LYS:CA	2.75	0.62
1:B:556:PHE:CD2	1:B:557:VAL:HG22	2.33	0.62
1:C:75:LEU:HD21	1:C:92:LEU:HB2	1.80	0.62
1:C:702:LEU:O	1:C:702:LEU:HD23	1.99	0.62
1:C:741:VAL:HG12	1:C:791:VAL:HG12	1.79	0.62
1:C:758:TYR:HD2	1:C:758:TYR:H	0.76	0.62
1:A:5:PHE:CE2	1:A:12:ALA:HB2	2.33	0.62
1:A:467:TYR:CE1	1:A:925:VAL:CG2	2.79	0.62
1:A:605:ASN:O	1:A:631:LEU:HA	1.99	0.62
1:B:139:VAL:O	1:B:140:VAL:C	2.42	0.62
1:B:307:ARG:HB2	1:B:307:ARG:NH1	2.14	0.62
1:B:309:GLU:C	1:B:311:ALA:N	2.57	0.62
1:C:99:ASP:O	1:C:101:ASP:N	2.30	0.62
1:C:213:GLN:OE1	1:C:239:ARG:HB2	1.99	0.62
1:C:448:VAL:HG12	1:C:884:VAL:HG22	1.80	0.62
1:A:307:ARG:HG2	1:A:307:ARG:HH11	1.64	0.62
1:A:823:PRO:CD	1:A:823:PRO:CA	2.75	0.62
1:B:580:ALA:O	1:B:582:ALA:N	2.32	0.62
1:B:751:GLY:C	1:B:753:ALA:H	2.05	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1019:ILE:C	1:B:1020:PHE:HD1	2.06	0.62
1:C:111:LEU:HD21	1:C:127:VAL:HG21	1.81	0.62
1:C:219:LEU:C	1:C:221:GLY:H	2.05	0.62
1:C:382:VAL:HG11	1:C:476:SER:CB	2.28	0.62
1:A:108:GLN:OE1	1:B:112:GLN:CD	2.42	0.62
1:A:190:PRO:HB2	1:A:788:ASP:O	2.00	0.62
1:A:255:GLN:H	1:A:255:GLN:CD	2.08	0.62
1:A:298:ASN:O	1:A:299:ALA:C	2.42	0.62
1:A:328:ASP:CG	1:A:330:THR:HB	2.23	0.62
1:A:634:TRP:CD1	1:A:634:TRP:H	2.13	0.62
1:A:960:LEU:HB2	1:A:1031:ARG:NH2	2.13	0.62
1:B:45:ILE:HA	1:B:129:VAL:HG22	1.80	0.62
1:C:52:ALA:O	1:C:86:GLY:HA2	2.00	0.62
1:C:342:LYS:O	1:C:346:GLU:HB2	2.00	0.62
1:A:447:MET:HB3	1:A:887:CYS:HG	1.65	0.62
1:B:228:GLN:OE1	1:C:781:MET:CB	2.48	0.62
1:B:470:PHE:CD2	1:B:929:VAL:HG11	2.34	0.62
1:C:158:VAL:CG1	1:C:158:VAL:CA	2.74	0.62
1:C:164:ASP:CB	1:C:164:ASP:OD2	2.44	0.62
1:C:959:GLY:H	1:C:962:GLU:HG2	1.64	0.62
1:C:987:MET:HA	1:C:1008:MET:HE1	1.80	0.62
1:A:167:SER:HB3	1:A:175:VAL:CG2	2.28	0.62
1:A:184:MET:HE3	1:A:246:PHE:CD2	2.35	0.62
1:A:275:TYR:HB2	1:C:223:PRO:HG3	1.81	0.62
1:B:12:ALA:O	1:B:13:TRP:C	2.39	0.62
1:B:380:PHE:HZ	1:B:395:MET:HE1	1.64	0.62
1:B:423:GLU:OE2	1:B:427:PRO:HD3	2.00	0.62
1:B:687:GLN:HA	1:B:822:LEU:CD2	2.29	0.62
1:A:89:GLN:O	1:A:90:ILE:HG13	1.99	0.62
1:A:361:ASN:HD22	1:A:364:ALA:HB3	1.65	0.62
1:A:472:ILE:CD1	1:A:472:ILE:H	2.12	0.62
1:A:852:PRO:O	1:A:855:VAL:CG2	2.34	0.62
1:B:312:LYS:O	1:B:315:PRO:HD2	2.00	0.62
1:B:596:HIS:CE1	1:B:600:THR:HG21	2.35	0.62
1:B:905:VAL:HB	1:B:906:PRO:HD2	1.82	0.62
1:B:991:ILE:O	1:B:991:ILE:CG1	2.47	0.62
1:C:300:LEU:HD11	1:C:333:VAL:CG1	2.30	0.62
1:C:446:ALA:CB	1:C:482:VAL:HG21	2.30	0.62
1:A:72:ILE:C	1:A:72:ILE:N	2.54	0.62
1:A:583:THR:HA	1:A:622:GLN:HB2	1.82	0.62
1:B:47:ALA:HB3	1:B:88:VAL:CB	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:426:PRO:HB3	1:B:430:ALA:HB1	1.80	0.62
1:B:753:ALA:HB3	1:B:754:TRP:CD1	2.35	0.62
1:C:6:ILE:HG13	1:C:494:ALA:HB3	1.82	0.62
1:C:143:ILE:HG12	1:C:286:ALA:HB2	1.82	0.62
1:C:173:GLY:O	1:C:174:ASP:HB2	1.98	0.62
1:C:368:PRO:HB3	1:C:409:ALA:CB	2.28	0.62
1:C:400:LEU:N	1:C:400:LEU:CD2	2.62	0.62
1:A:49:TYR:CD2	1:A:49:TYR:O	2.52	0.62
1:A:324:VAL:C	1:A:325:TYR:CD1	2.71	0.62
1:B:188:MET:SD	1:B:200:PRO:HB3	2.40	0.62
1:B:383:LEU:O	1:B:387:GLY:N	2.33	0.62
1:B:442:LEU:HA	1:B:445:ILE:HD12	1.80	0.62
1:B:1018:ALA:C	1:B:1020:PHE:H	2.08	0.62
1:C:166:ILE:HG23	1:C:166:ILE:O	1.98	0.62
1:C:530:SER:CB	1:C:534:ILE:HD11	2.12	0.62
1:C:695:LEU:HD13	1:C:825:MET:SD	2.40	0.62
1:C:705:GLU:O	1:C:706:ALA:C	2.41	0.62
1:C:1022:VAL:HA	1:C:1025:PHE:CE2	2.35	0.62
1:A:253:VAL:HG12	1:A:258:SER:O	1.99	0.61
1:A:615:PHE:CD1	2:A:2002:DM2:O19	2.53	0.61
1:B:307:ARG:HH11	1:B:307:ARG:CB	2.13	0.61
1:B:717:ARG:HG2	1:B:717:ARG:NH1	2.09	0.61
1:C:204:ILE:O	1:C:207:ILE:N	2.29	0.61
1:C:577:GLN:HE21	1:C:577:GLN:N	1.98	0.61
1:C:655:PHE:CD1	1:C:663:VAL:CG1	2.84	0.61
1:A:572:PHE:C	1:A:572:PHE:HD1	2.05	0.61
1:B:333:VAL:O	1:B:334:LYS:C	2.41	0.61
1:B:934:THR:C	1:B:936:GLY:N	2.50	0.61
1:B:972:LEU:HD13	1:B:976:LEU:CG	2.30	0.61
1:C:355:MET:HG3	1:C:368:PRO:HG2	1.82	0.61
1:C:482:VAL:O	1:C:482:VAL:HG12	2.00	0.61
1:C:943:ILE:O	1:C:943:ILE:CG2	2.48	0.61
1:A:165:ALA:HB3	1:A:166:ILE:HG12	1.82	0.61
1:A:167:SER:HB2	1:A:175:VAL:CG2	2.17	0.61
1:A:214:VAL:HG11	1:B:747:ASN:HB3	1.83	0.61
1:A:713:LEU:CD1	1:A:834:GLY:H	2.12	0.61
1:B:130:GLU:OE1	1:C:110:LYS:CE	2.41	0.61
1:B:186:ILE:HD13	1:B:268:ILE:HG13	1.81	0.61
1:B:525:HIS:O	1:B:529:ASP:HB2	2.00	0.61
1:B:531:VAL:CG1	1:B:535:LEU:CD1	2.61	0.61
1:B:770:LYS:HD2	1:B:772:TYR:CE2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:104:GLN:O	1:A:105:VAL:O	2.18	0.61
1:A:167:SER:HA	1:A:172:VAL:CG1	2.31	0.61
1:A:286:ALA:O	1:A:287:SER:HB2	2.01	0.61
1:A:348:ILE:O	1:A:351:VAL:N	2.34	0.61
2:A:2002:DM2:O6	2:A:2002:DM2:O8	2.14	0.61
1:B:21:LEU:HD11	1:C:883:VAL:CG2	2.30	0.61
1:B:30:LEU:HD23	1:B:390:ILE:HD11	1.83	0.61
1:B:324:VAL:HG21	1:B:326:PRO:HD3	1.75	0.61
1:B:1016:VAL:C	1:B:1018:ALA:H	2.05	0.61
1:C:350:LEU:CD1	1:C:984:LEU:HD12	2.30	0.61
1:C:959:GLY:O	1:C:963:ALA:CB	2.49	0.61
1:A:167:SER:HB3	1:A:175:VAL:CG1	2.30	0.61
1:A:193:LEU:HD12	1:A:265:VAL:CG1	2.28	0.61
1:A:246:PHE:O	1:A:249:ILE:HD12	2.01	0.61
1:A:451:ALA:O	1:A:880:SER:HB2	1.99	0.61
1:A:649:MET:HB3	1:A:653:ARG:NH2	2.16	0.61
1:A:659:LYS:CG	1:A:660:ASP:H	1.94	0.61
1:B:193:LEU:HD22	1:B:198:LEU:HB2	1.82	0.61
1:B:964:THR:C	1:B:965:LEU:HD23	2.26	0.61
1:C:114:ALA:O	1:C:115:MET:C	2.38	0.61
1:C:894:SER:OG	1:C:897:ILE:HG13	2.00	0.61
1:C:894:SER:OG	1:C:897:ILE:N	2.32	0.61
1:A:240:LEU:H	1:A:240:LEU:CD2	2.13	0.61
1:A:655:PHE:CE2	1:A:663:VAL:HG11	2.35	0.61
1:A:757:SER:OG	1:A:758:TYR:N	2.28	0.61
1:A:817:GLU:O	1:A:823:PRO:HA	2.00	0.61
1:B:671:ILE:CG2	1:B:676:THR:HG23	2.28	0.61
1:A:132:SER:O	1:A:133:SER:HB2	2.00	0.61
1:A:565:PRO:C	1:A:566:ASP:O	2.38	0.61
1:A:690:LEU:CD1	1:A:855:VAL:N	2.63	0.61
1:A:702:LEU:HB2	1:A:851:LEU:HD21	1.82	0.61
1:B:184:MET:HE3	1:B:246:PHE:CG	2.35	0.61
1:B:184:MET:HB2	1:B:762:PHE:CE2	2.36	0.61
1:B:392:THR:O	1:B:393:LEU:C	2.40	0.61
1:B:819:TYR:CE1	1:B:860:THR:OG1	2.54	0.61
1:B:1029:VAL:O	1:B:1030:ARG:C	2.43	0.61
1:C:65:ILE:CG2	1:C:66:GLU:N	2.64	0.61
1:C:65:ILE:HG21	1:C:90:ILE:HD12	1.82	0.61
1:C:193:LEU:HB2	1:C:198:LEU:O	2.00	0.61
1:C:193:LEU:HG	1:C:265:VAL:CG2	2.30	0.61
1:C:444:GLY:O	1:C:448:VAL:CG2	2.49	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:572:PHE:HB2	1:C:666:PHE:O	2.00	0.61
1:C:729:ILE:HG12	1:C:807:SER:CB	2.30	0.61
1:C:925:VAL:HA	1:C:928:GLN:NE2	2.16	0.61
1:C:940:LYS:O	1:C:943:ILE:HB	1.99	0.61
1:A:358:PHE:CD2	1:A:977:MET:HG2	2.35	0.61
1:A:611:ALA:CB	1:A:627:ALA:CB	2.77	0.61
1:A:902:MET:O	1:A:905:VAL:HG23	2.01	0.61
1:A:924:ASP:O	1:A:925:VAL:C	2.43	0.61
1:B:171:GLY:O	1:B:294:ALA:CB	2.49	0.61
1:B:1024:VAL:HG12	1:B:1028:VAL:HG21	1.82	0.61
1:C:182:TYR:CD2	1:C:271:GLY:O	2.52	0.61
1:A:61:VAL:CG2	1:A:118:LEU:CD2	2.51	0.61
1:A:515:TRP:HD1	1:A:519:MET:SD	2.22	0.61
1:A:644:VAL:O	1:A:645:GLU:C	2.44	0.61
1:B:358:PHE:O	1:B:359:LEU:HB2	2.01	0.61
1:B:674:LEU:O	1:B:674:LEU:HD13	2.00	0.61
1:C:179:GLY:H	1:C:277:ILE:HD12	1.66	0.61
1:C:527:TYR:HE2	1:C:972:LEU:HD12	1.62	0.61
1:C:565:PRO:HB3	1:C:924:ASP:OD2	2.01	0.61
1:C:576:VAL:HG23	1:C:625:GLY:H	1.65	0.61
1:A:199:THR:HG21	1:A:792:ARG:H	1.66	0.61
1:A:860:THR:HG22	1:A:861:GLY:HA2	1.83	0.61
1:B:2:PRO:O	1:B:6:ILE:N	2.34	0.61
1:B:262:LEU:HB3	1:B:268:ILE:HD11	1.81	0.61
1:B:422:GLU:OE2	1:B:422:GLU:N	2.32	0.61
1:B:945:ILE:O	1:B:948:PHE:N	2.33	0.61
1:C:4:PHE:C	1:C:8:ARG:HH12	2.09	0.61
1:C:220:GLY:CA	1:C:231:ASN:HA	2.30	0.61
1:C:397:GLY:O	1:C:474:ILE:CD1	2.47	0.61
1:C:947:GLU:O	1:C:950:LYS:HB3	2.01	0.61
1:A:32:VAL:HA	1:A:390:ILE:O	2.01	0.60
1:A:45:ILE:O	1:A:89:GLN:HA	2.01	0.60
1:A:278:ILE:HB	1:A:613:ASN:OD1	2.01	0.60
1:A:372:VAL:HB	1:A:373:PRO:HD3	1.82	0.60
1:A:952:LEU:CD1	1:A:963:ALA:HA	2.30	0.60
1:A:991:ILE:HD11	1:A:1004:GLY:C	2.26	0.60
1:B:227:GLY:O	1:B:228:GLN:O	2.18	0.60
1:B:335:ILE:CG2	1:B:995:ALA:HB2	2.31	0.60
1:B:950:LYS:O	1:B:950:LYS:CD	2.49	0.60
1:C:241:THR:O	1:C:241:THR:OG1	2.10	0.60
1:A:242:SER:O	1:A:246:PHE:HD2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:244:GLU:C	1:A:246:PHE:N	2.59	0.60
1:A:573:MET:HB2	1:A:666:PHE:HE2	1.66	0.60
1:A:822:LEU:CD1	1:A:822:LEU:HG	2.23	0.60
1:A:888:LEU:HD11	1:A:943:ILE:HG12	1.83	0.60
1:A:893:GLU:CB	1:C:10:ILE:HD13	2.31	0.60
1:B:417:GLU:OE2	1:B:417:GLU:HA	2.02	0.60
1:B:555:LEU:HB2	1:B:913:LEU:HB3	1.82	0.60
1:C:207:ILE:O	1:C:211:ASN:HB3	2.00	0.60
1:C:225:VAL:O	1:C:227:GLY:N	2.34	0.60
1:C:280:GLU:HB3	1:C:284:GLN:O	2.01	0.60
1:C:574:THR:HA	1:C:664:PHE:O	1.99	0.60
1:C:820:ASN:O	1:C:822:LEU:N	2.34	0.60
1:C:930:GLY:CA	1:C:1007:VAL:HG23	2.31	0.60
1:A:952:LEU:O	1:A:953:MET:C	2.44	0.60
1:B:297:ALA:HB1	1:B:302:THR:HG21	1.84	0.60
1:B:679:GLY:HA2	1:B:830:GLN:HB3	1.81	0.60
1:B:817:GLU:O	1:B:818:ARG:HG3	2.00	0.60
1:B:983:ILE:HG22	1:B:984:LEU:N	2.17	0.60
1:C:286:ALA:O	1:C:287:SER:HB2	1.99	0.60
1:C:713:LEU:O	1:C:831:ALA:HA	2.00	0.60
1:C:721:LEU:HD12	1:C:815:ARG:C	2.24	0.60
1:A:215:ALA:O	1:A:216:ALA:HB2	2.01	0.60
1:A:685:ILE:CD1	1:A:856:GLY:HA3	2.31	0.60
1:A:822:LEU:O	1:A:824:SER:OG	2.19	0.60
1:A:1007:VAL:O	1:A:1008:MET:C	2.43	0.60
1:B:9:PRO:O	1:B:13:TRP:N	2.33	0.60
1:B:438:ILE:O	1:B:441:ALA:N	2.35	0.60
1:B:1017:LEU:O	1:B:1021:PHE:HB2	2.00	0.60
1:C:60:THR:CG2	1:C:60:THR:HB	2.14	0.60
1:C:309:GLU:O	1:C:312:LYS:HB3	2.02	0.60
1:C:331:PRO:O	1:C:335:ILE:HD13	2.01	0.60
1:C:358:PHE:O	1:C:973:ARG:NH2	2.35	0.60
1:C:371:ALA:O	1:C:375:VAL:HG23	2.01	0.60
1:C:696:THR:O	1:C:698:ALA:N	2.34	0.60
1:C:705:GLU:O	1:C:708:LYS:N	2.34	0.60
1:C:953:MET:CE	1:C:963:ALA:HB2	2.32	0.60
1:C:990:VAL:HG21	1:C:1008:MET:CE	2.31	0.60
1:A:138:MET:HE1	1:A:306:ILE:HB	1.82	0.60
1:A:182:TYR:HB2	1:A:769:LYS:HZ3	1.67	0.60
1:A:189:ASN:HB2	1:A:779:TYR:CD2	2.37	0.60
1:A:348:ILE:C	1:A:350:LEU:N	2.60	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:930:GLY:C	1:A:932:LEU:H	2.09	0.60
1:A:1021:PHE:C	1:A:1025:PHE:CD2	2.79	0.60
1:B:100:ALA:HA	1:B:103:ALA:HB3	1.82	0.60
1:B:242:SER:HB3	1:B:245:GLU:OE1	2.00	0.60
1:B:448:VAL:O	1:B:452:VAL:HG22	2.01	0.60
1:B:639:GLY:O	1:B:643:LYS:NZ	2.35	0.60
1:C:184:MET:HE3	1:C:185:ARG:N	2.09	0.60
1:C:375:VAL:HG13	1:C:480:LEU:HB3	1.81	0.60
1:C:705:GLU:O	1:C:707:ALA:N	2.35	0.60
1:A:44:THR:CG2	1:A:45:ILE:N	2.61	0.60
1:A:223:PRO:HD3	1:B:275:TYR:HD2	1.64	0.60
1:A:775:SER:O	1:A:776:GLU:C	2.45	0.60
1:B:3:ASN:C	1:B:5:PHE:N	2.60	0.60
1:B:60:THR:HG22	1:B:119:PRO:HG3	1.82	0.60
1:B:65:ILE:HG22	1:B:90:ILE:HD13	1.76	0.60
1:B:513:PHE:O	1:B:516:PHE:HB2	2.00	0.60
1:B:626:ILE:HD11	1:B:628:PHE:CZ	2.36	0.60
1:B:646:ALA:HA	1:B:649:MET:CB	2.21	0.60
1:C:596:HIS:O	1:C:598:TYR:N	2.35	0.60
1:C:683:GLU:HA	1:C:683:GLU:OE2	2.01	0.60
1:A:119:PRO:C	1:A:121:GLU:H	2.09	0.60
1:A:412:VAL:HG22	1:A:435:MET:HE1	1.84	0.60
1:A:412:VAL:CG2	1:A:435:MET:HE1	2.32	0.60
1:B:192:GLU:HB3	1:B:265:VAL:HG12	1.83	0.60
1:B:202:ASP:O	1:B:205:THR:HB	2.01	0.60
1:B:434:SER:O	1:B:437:GLN:HB2	2.01	0.60
1:B:552:MET:HB2	1:B:910:ILE:HG13	1.84	0.60
1:B:683:GLU:O	1:B:857:TYR:HA	2.00	0.60
1:B:906:PRO:HA	1:B:909:VAL:CG2	2.32	0.60
1:C:9:PRO:HB3	1:C:491:ALA:HB1	1.82	0.60
1:C:400:LEU:H	1:C:400:LEU:CD2	2.14	0.60
1:C:410:ILE:CG2	1:C:411:VAL:N	2.41	0.60
1:C:465:ALA:HA	1:C:468:ARG:NH1	2.17	0.60
1:C:548:ILE:HD13	1:C:1017:LEU:HD21	1.84	0.60
1:A:89:GLN:C	1:A:90:ILE:CG1	2.75	0.60
1:A:470:PHE:HZ	1:A:926:TYR:HE2	1.49	0.60
1:B:297:ALA:HB1	1:B:302:THR:CG2	2.32	0.60
1:B:456:MET:SD	1:B:467:TYR:HB3	2.42	0.60
1:C:1:MET:N	1:C:2:PRO:HD2	2.16	0.60
1:C:220:GLY:HA3	1:C:231:ASN:CB	2.32	0.60
1:C:753:ALA:O	1:C:775:SER:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:775:SER:C	1:C:776:GLU:O	2.42	0.60
1:C:931:LEU:O	1:C:935:ILE:HG13	2.01	0.60
1:C:966:ASP:CG	1:C:969:ARG:HD3	2.27	0.60
1:C:983:ILE:HG23	1:C:1008:MET:HA	1.83	0.60
1:A:328:ASP:OD2	1:A:330:THR:HB	2.02	0.60
1:B:727:PHE:CE1	1:B:807:SER:HB2	2.37	0.60
1:B:986:VAL:CG1	1:B:990:VAL:HG21	2.16	0.60
1:C:663:VAL:O	1:C:664:PHE:CD2	2.55	0.60
1:C:699:ARG:HD2	1:C:703:LEU:CD1	2.26	0.60
1:C:699:ARG:O	1:C:701:GLN:N	2.33	0.60
1:C:986:VAL:O	1:C:986:VAL:HG12	2.01	0.60
1:A:53:ASP:OD2	1:A:53:ASP:N	2.34	0.60
1:A:375:VAL:HG21	1:A:484:VAL:CG1	2.26	0.60
1:A:893:GLU:HG3	1:C:10:ILE:HD13	1.77	0.60
1:A:935:ILE:O	1:A:935:ILE:CG2	2.50	0.60
1:B:100:ALA:O	1:B:101:ASP:C	2.39	0.60
1:B:372:VAL:CB	1:B:373:PRO:CD	2.79	0.60
1:B:413:VAL:HG12	1:B:414:GLU:N	2.16	0.60
1:B:416:VAL:HG23	1:B:434:SER:OG	2.02	0.60
1:B:576:VAL:HG21	1:B:591:LEU:HD22	1.82	0.60
1:C:43:VAL:HG21	1:C:94:PHE:HE1	1.67	0.60
1:C:184:MET:HB2	1:C:771:VAL:HG22	1.84	0.60
1:C:185:ARG:HG3	1:C:271:GLY:HA3	1.84	0.60
1:C:291:ILE:CD1	1:C:291:ILE:CG2	2.80	0.60
1:C:358:PHE:HB2	1:C:977:MET:HE2	1.83	0.60
1:C:575:MET:HE1	1:C:617:PHE:HD1	1.67	0.60
1:C:770:LYS:CB	1:C:770:LYS:CD	2.78	0.60
1:A:643:LYS:HZ1	1:A:995:ALA:HB2	1.66	0.59
1:A:682:PHE:CE1	1:A:857:TYR:HB2	2.36	0.59
1:A:713:LEU:HD13	1:A:834:GLY:H	1.67	0.59
1:A:889:ALA:CB	1:A:898:PRO:HG3	2.32	0.59
1:A:971:ARG:HE	1:A:974:PRO:CG	2.13	0.59
1:A:1021:PHE:C	1:A:1025:PHE:HD2	2.10	0.59
1:B:340:VAL:CG2	1:B:396:PHE:CE1	2.73	0.59
1:B:727:PHE:CZ	1:B:807:SER:HB2	2.37	0.59
1:C:173:GLY:O	1:C:174:ASP:CB	2.49	0.59
1:C:975:ILE:O	1:C:977:MET:N	2.35	0.59
1:C:989:LEU:HD22	1:C:1000:GLN:HA	1.83	0.59
1:A:79:SER:CA	1:A:80:SER:N	2.61	0.59
1:A:376:LEU:O	1:A:377:LEU:C	2.44	0.59
1:A:615:PHE:CD2	1:A:626:ILE:HG21	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:682:PHE:CZ	1:A:857:TYR:HB2	2.37	0.59
1:A:685:ILE:CG2	1:A:685:ILE:CA	2.73	0.59
1:A:844:MET:HG3	1:A:844:MET:O	2.02	0.59
1:B:34:GLN:O	1:B:391:ASN:HB2	2.02	0.59
1:B:393:LEU:HD13	1:B:466:ILE:HG22	1.82	0.59
1:B:583:THR:HG23	1:B:586:ARG:H	1.66	0.59
1:B:760:ASN:OD1	1:B:760:ASN:C	2.45	0.59
1:B:1021:PHE:HB3	1:B:1025:PHE:CE2	2.33	0.59
1:A:521:GLU:HG2	1:A:521:GLU:O	2.00	0.59
1:A:801:PHE:CD1	1:A:805:SER:HB2	2.36	0.59
1:B:349:ILE:HG22	1:B:350:LEU:CD2	2.32	0.59
1:C:53:ASP:OD1	1:C:84:SER:O	2.20	0.59
1:C:77:TYR:CZ	1:C:860:THR:CG2	2.83	0.59
1:C:82:SER:OG	1:C:88:VAL:CA	2.47	0.59
1:C:188:MET:O	1:C:776:GLU:HB2	2.01	0.59
1:C:350:LEU:HD12	1:C:984:LEU:O	2.02	0.59
1:C:901:VAL:HG13	1:C:942:ALA:O	2.03	0.59
1:A:78:MET:O	1:A:78:MET:CG	2.46	0.59
1:A:105:VAL:HG22	1:B:105:VAL:HG13	1.84	0.59
1:A:302:THR:O	1:A:306:ILE:HD12	2.01	0.59
1:A:572:PHE:CE1	1:A:629:VAL:HB	2.30	0.59
1:A:685:ILE:HD11	1:A:856:GLY:HA3	1.82	0.59
1:B:1:MET:N	1:B:2:PRO:CD	2.65	0.59
1:B:228:GLN:HE22	1:C:782:LEU:CD2	2.15	0.59
1:B:836:SER:C	1:B:838:GLY:H	2.11	0.59
1:B:851:LEU:N	1:B:852:PRO:HD3	2.17	0.59
1:C:312:LYS:HG2	1:C:312:LYS:O	2.02	0.59
1:C:527:TYR:OH	1:C:968:VAL:HG12	2.02	0.59
1:C:723:ASP:OD1	1:C:813:SER:HB2	2.03	0.59
1:C:795:ASP:OD1	1:C:797:GLN:HB2	2.02	0.59
1:C:916:ALA:O	1:C:919:ARG:O	2.20	0.59
1:A:515:TRP:O	1:A:516:PHE:C	2.42	0.59
1:B:555:LEU:HA	1:B:558:ARG:NH1	2.17	0.59
1:B:987:MET:CE	1:B:987:MET:CA	2.53	0.59
1:C:154:ILE:CG2	1:C:287:SER:HB3	2.33	0.59
1:C:158:VAL:HG11	1:C:177:LEU:CD2	2.32	0.59
1:C:406:VAL:O	1:C:408:ASP:N	2.35	0.59
1:C:420:MET:HB2	1:C:498:LYS:HZ1	1.68	0.59
1:C:680:PHE:CE1	1:C:829:GLY:HA3	2.37	0.59
1:C:919:ARG:HB3	1:C:921:LEU:CD2	2.12	0.59
1:A:348:ILE:HG22	1:A:349:ILE:N	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:800:PRO:HD2	1:A:803:ALA:HB2	1.85	0.59
1:B:74:ASN:HD22	1:B:98:THR:CB	2.14	0.59
1:B:445:ILE:CG2	1:B:940:LYS:HG3	2.24	0.59
1:C:314:GLU:HG2	1:C:317:PHE:CZ	2.38	0.59
1:C:375:VAL:HG13	1:C:480:LEU:HB2	1.85	0.59
1:C:570:GLY:N	1:C:634:TRP:HZ3	2.00	0.59
1:C:842:GLU:O	1:C:846:GLN:HG3	2.03	0.59
1:A:166:ILE:HD11	1:A:310:LEU:HD23	1.83	0.59
1:A:255:GLN:CD	1:A:255:GLN:N	2.61	0.59
1:A:435:MET:HE3	1:A:438:ILE:HG13	1.84	0.59
1:A:702:LEU:O	1:A:705:GLU:CB	2.50	0.59
1:A:857:TYR:HD1	1:A:858:ASP:N	2.00	0.59
1:B:60:THR:HG22	1:B:119:PRO:CG	2.32	0.59
1:B:530:SER:O	1:B:534:ILE:HD11	2.03	0.59
1:B:573:MET:HE3	1:B:676:THR:OG1	2.03	0.59
1:C:214:VAL:CG1	1:C:215:ALA:N	2.66	0.59
1:C:327:TYR:HA	1:C:571:VAL:HG11	1.84	0.59
1:C:590:VAL:O	1:C:591:LEU:C	2.45	0.59
1:C:759:VAL:N	1:C:771:VAL:O	2.35	0.59
1:A:136:PHE:O	1:A:137:LEU:C	2.46	0.59
1:A:882:ILE:HG22	1:A:883:VAL:N	2.16	0.59
1:A:973:ARG:HB3	1:A:974:PRO:HD3	1.84	0.59
1:A:1022:VAL:HA	1:A:1025:PHE:HD2	1.67	0.59
1:A:1036:LYS:NZ	1:A:1036:LYS:CB	2.65	0.59
1:B:104:GLN:HG3	1:B:105:VAL:N	2.16	0.59
1:B:713:LEU:CD2	1:B:713:LEU:N	2.46	0.59
1:B:949:ALA:HB3	1:B:1030:ARG:NH2	2.12	0.59
1:B:1003:VAL:HG12	1:B:1004:GLY:N	2.16	0.59
1:C:49:TYR:CG	1:C:52:ALA:CB	2.85	0.59
1:C:64:VAL:HG12	1:C:65:ILE:H	1.58	0.59
1:A:49:TYR:O	1:A:50:PRO:O	2.21	0.59
1:A:131:LYS:C	1:A:132:SER:O	2.45	0.59
1:A:234:ILE:HA	1:B:727:PHE:O	2.02	0.59
1:A:262:LEU:HD23	1:A:268:ILE:HD11	1.85	0.59
1:A:298:ASN:HD21	1:A:300:LEU:CB	2.12	0.59
1:A:314:GLU:HA	1:A:321:LEU:HD11	1.84	0.59
1:A:459:PHE:HD1	1:A:467:TYR:CD2	2.20	0.59
1:A:787:GLY:C	1:A:789:TRP:H	2.11	0.59
1:A:945:ILE:HG12	1:A:971:ARG:HG3	1.83	0.59
1:A:987:MET:N	1:A:988:PRO:CD	2.66	0.59
1:B:167:SER:HA	1:B:175:VAL:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:668:LEU:HB3	1:B:676:THR:HG21	1.84	0.59
1:B:833:PRO:O	1:B:834:GLY:C	2.46	0.59
1:C:152:GLU:O	1:C:153:ASP:C	2.45	0.59
1:C:381:ALA:O	1:C:382:VAL:C	2.44	0.59
1:A:72:ILE:CA	1:A:106:GLN:NE2	2.64	0.59
1:A:251:LEU:HD21	1:A:262:LEU:HD13	1.84	0.59
1:A:461:GLY:O	1:A:464:GLY:N	2.36	0.59
1:A:683:GLU:OE2	1:A:819:TYR:HD1	1.85	0.59
1:B:240:LEU:HB3	1:B:246:PHE:HE2	1.61	0.59
1:B:790:TYR:HD1	1:B:800:PRO:HA	1.66	0.59
1:C:38:ILE:CG2	1:C:466:ILE:HD11	2.32	0.59
1:C:49:TYR:CD2	1:C:52:ALA:HB2	2.37	0.59
1:C:304:ALA:O	1:C:308:ALA:N	2.33	0.59
1:C:774:MET:HG2	1:C:775:SER:N	2.18	0.59
1:A:112:GLN:CG	1:C:112:GLN:HE21	2.15	0.58
1:A:731:ILE:CG2	1:A:746:ILE:CD1	2.81	0.58
1:A:891:LEU:O	1:A:892:TYR:CD2	2.47	0.58
1:A:905:VAL:CG1	1:A:935:ILE:HD13	2.32	0.58
1:B:980:LEU:HA	1:B:983:ILE:HB	1.83	0.58
1:C:146:ASP:OD1	1:C:146:ASP:N	2.36	0.58
1:C:615:PHE:C	1:C:615:PHE:CD2	2.81	0.58
1:C:842:GLU:HG3	1:C:846:GLN:HE21	1.68	0.58
1:A:10:ILE:HD11	1:B:895:TRP:CD1	2.37	0.58
1:A:106:GLN:O	1:A:110:LYS:HB2	2.03	0.58
1:A:911:GLY:CA	1:A:1013:THR:CG2	2.82	0.58
1:B:776:GLU:OE1	1:B:778:LYS:HE2	2.02	0.58
1:B:941:ASN:HD21	1:B:1015:THR:HG23	1.68	0.58
1:C:189:ASN:CG	1:C:779:TYR:HE1	2.11	0.58
1:C:253:VAL:CG1	1:C:259:ARG:HG3	2.33	0.58
1:C:300:LEU:HD11	1:C:333:VAL:HG11	1.85	0.58
1:C:358:PHE:HB2	1:C:977:MET:SD	2.43	0.58
1:C:650:ARG:O	1:C:653:ARG:HG3	2.03	0.58
1:A:355:MET:CE	1:A:410:ILE:HG21	2.33	0.58
1:B:219:LEU:CD2	1:B:234:ILE:CG1	2.77	0.58
1:B:545:TYR:O	1:B:547:ILE:N	2.36	0.58
1:B:557:VAL:C	1:B:558:ARG:HG3	2.28	0.58
1:B:764:ASP:CG	1:B:765:ARG:NH1	2.61	0.58
1:B:817:GLU:HB2	1:B:824:SER:O	2.03	0.58
1:B:949:ALA:HB1	1:B:1030:ARG:HH22	1.65	0.58
1:C:166:ILE:CG2	1:C:167:SER:N	2.65	0.58
1:C:183:ALA:O	1:C:185:ARG:HG2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:758:TYR:HB2	1:C:770:LYS:HE3	1.84	0.58
1:A:90:ILE:CD1	1:A:90:ILE:HB	2.30	0.58
1:A:162:MET:CE	1:A:310:LEU:CD2	2.82	0.58
1:A:231:ASN:OD1	1:B:622:GLN:HG3	2.03	0.58
1:A:691:GLY:O	1:A:693:GLU:N	2.37	0.58
1:A:1028:VAL:HG12	1:A:1032:ARG:HH21	1.68	0.58
1:B:157:TYR:C	1:B:161:ASN:ND2	2.61	0.58
1:B:723:ASP:HB3	1:B:812:GLY:O	2.03	0.58
1:B:900:SER:O	1:B:901:VAL:C	2.46	0.58
1:B:1022:VAL:HA	1:B:1025:PHE:HD2	1.69	0.58
1:C:317:PHE:CB	1:C:318:PRO:CD	2.81	0.58
1:C:335:ILE:O	1:C:336:SER:C	2.44	0.58
1:C:702:LEU:O	1:C:706:ALA:HB2	2.03	0.58
1:C:768:VAL:CG1	1:C:769:LYS:N	2.66	0.58
1:A:367:ILE:O	1:A:368:PRO:C	2.45	0.58
1:A:376:LEU:N	1:A:376:LEU:HD23	2.19	0.58
1:A:520:PHE:C	1:A:522:LYS:H	2.10	0.58
1:A:880:SER:O	1:A:882:ILE:N	2.36	0.58
1:A:905:VAL:HB	1:A:906:PRO:HD3	1.86	0.58
1:B:213:GLN:HE22	1:B:239:ARG:HB2	1.69	0.58
1:C:77:TYR:CD2	1:C:819:TYR:OH	2.56	0.58
1:A:69:MET:HA	1:A:69:MET:HE3	1.82	0.58
1:A:119:PRO:CD	1:A:122:VAL:HG23	2.31	0.58
1:A:367:ILE:CG1	1:A:493:CYS:HB3	2.22	0.58
1:A:397:GLY:HA3	1:A:473:THR:HG21	1.84	0.58
1:A:445:ILE:HG21	1:A:940:LYS:HG3	1.84	0.58
1:A:823:PRO:N	1:A:823:PRO:C	2.60	0.58
1:A:843:LEU:CD2	1:A:847:LEU:HG	2.34	0.58
1:B:60:THR:CG2	1:B:119:PRO:HG3	2.34	0.58
1:B:148:THR:O	1:B:149:MET:CG	2.50	0.58
1:B:150:THR:O	1:B:153:ASP:N	2.37	0.58
1:B:327:TYR:OH	1:B:573:MET:HE2	2.03	0.58
1:B:332:PHE:CE1	1:B:568:ASP:O	2.57	0.58
1:B:349:ILE:HG22	1:B:350:LEU:HD23	1.86	0.58
1:B:646:ALA:CA	1:B:649:MET:HB2	2.22	0.58
1:B:736:ALA:HB2	1:B:804:PHE:CD2	2.38	0.58
1:B:972:LEU:HD13	1:B:976:LEU:CD2	2.31	0.58
1:C:414:GLU:OE2	1:C:977:MET:CG	2.28	0.58
1:A:114:ALA:O	1:A:117:LEU:HD22	1.99	0.58
1:A:199:THR:OG1	1:A:201:VAL:HB	2.03	0.58
1:A:329:THR:O	1:A:329:THR:CG2	2.52	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:611:ALA:CB	1:A:627:ALA:HB2	2.33	0.58
1:B:340:VAL:CG1	1:B:395:MET:CB	2.76	0.58
1:B:964:THR:C	1:B:965:LEU:CD2	2.76	0.58
1:C:150:THR:HG23	1:C:153:ASP:OD1	2.04	0.58
1:C:513:PHE:CB	1:C:517:ASN:HB3	2.33	0.58
1:C:859:TRP:CB	1:C:863:SER:O	2.52	0.58
1:A:115:MET:HB2	1:A:116:PRO:HD3	1.85	0.58
1:A:240:LEU:CD2	1:A:240:LEU:N	2.67	0.58
1:A:978:THR:O	1:A:979:SER:C	2.45	0.58
1:B:150:THR:N	1:B:153:ASP:HB3	2.06	0.58
1:B:671:ILE:C	1:B:673:GLU:H	2.12	0.58
1:B:742:SER:HB3	1:B:745:ASP:OD1	2.03	0.58
1:B:888:LEU:CB	1:B:898:PRO:HG3	2.34	0.58
1:C:1024:VAL:CG1	1:C:1028:VAL:CG2	2.72	0.58
1:A:358:PHE:HD2	1:A:973:ARG:CG	2.16	0.58
1:A:358:PHE:HD2	1:A:973:ARG:HG2	1.68	0.58
1:A:746:ILE:HD13	1:A:804:PHE:CD1	2.39	0.58
1:A:886:LEU:CD2	1:C:17:ILE:CG2	2.81	0.58
1:B:240:LEU:HD13	1:B:246:PHE:CG	2.37	0.58
1:B:403:GLY:C	1:B:404:LEU:HD12	2.29	0.58
1:C:354:VAL:O	1:C:354:VAL:CG1	2.46	0.58
1:C:423:GLU:O	1:C:425:LEU:N	2.32	0.58
1:C:692:HIS:CE1	1:C:721:LEU:HD21	2.39	0.58
1:C:778:LYS:C	1:C:779:TYR:HD2	2.12	0.58
1:A:76:MET:HG2	1:A:95:GLU:CD	2.28	0.58
1:A:102:ILE:O	1:A:106:GLN:HG3	2.04	0.58
1:A:431:THR:OG1	1:A:494:ALA:HB2	2.03	0.58
1:A:526:HIS:HD1	1:A:526:HIS:C	2.12	0.58
1:A:690:LEU:CD1	1:A:854:GLY:CA	2.63	0.58
1:B:218:GLN:HA	1:B:234:ILE:HG13	1.86	0.58
1:B:524:THR:HG21	1:B:973:ARG:NH2	2.19	0.58
1:B:819:TYR:OH	1:B:860:THR:OG1	2.18	0.58
1:B:915:ALA:HB3	1:B:1009:GLY:HA3	1.83	0.58
1:C:163:LYS:NZ	1:C:175:VAL:HB	2.19	0.58
1:C:278:ILE:CG2	1:C:279:ALA:N	2.55	0.58
1:C:393:LEU:O	1:C:470:PHE:CE2	2.56	0.58
1:C:545:TYR:OH	1:C:1021:PHE:CA	2.50	0.58
1:C:1029:VAL:HG12	1:C:1030:ARG:N	2.18	0.58
1:A:302:THR:HG22	1:A:306:ILE:HD11	1.84	0.57
1:A:473:THR:O	1:A:474:ILE:C	2.46	0.57
1:A:818:ARG:NH2	1:A:823:PRO:HD3	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:13:TRP:CH2	1:B:370:ILE:HD13	2.27	0.57
1:B:405:LEU:HD12	1:B:406:VAL:HG13	1.86	0.57
1:B:439:GLN:HG2	1:B:439:GLN:O	2.02	0.57
1:B:921:LEU:CD2	1:B:1002:ALA:HA	2.34	0.57
1:B:943:ILE:HA	1:B:946:VAL:HG23	1.86	0.57
1:B:985:GLY:O	1:B:988:PRO:HD2	2.04	0.57
1:C:676:THR:C	1:C:678:THR:H	2.12	0.57
1:C:894:SER:CB	1:C:897:ILE:CD1	2.77	0.57
1:A:94:PHE:CZ	1:A:103:ALA:HB1	2.39	0.57
1:A:359:LEU:O	1:A:360:GLN:C	2.47	0.57
1:A:611:ALA:C	1:A:612:VAL:HG13	2.28	0.57
1:A:911:GLY:HA3	1:A:1013:THR:HG23	1.86	0.57
1:A:986:VAL:HG11	1:A:1007:VAL:HG23	1.86	0.57
1:B:32:VAL:HG12	1:B:337:ILE:HD13	1.86	0.57
1:B:419:VAL:O	1:B:419:VAL:CG1	2.52	0.57
1:B:767:ARG:O	1:B:768:VAL:C	2.45	0.57
1:B:987:MET:N	1:B:988:PRO:HD3	2.20	0.57
1:C:252:LYS:O	1:C:260:VAL:N	2.35	0.57
1:A:244:GLU:C	1:A:246:PHE:H	2.12	0.57
1:A:1019:ILE:CD1	1:A:1020:PHE:HE2	2.11	0.57
1:B:310:LEU:O	1:B:314:GLU:CG	2.51	0.57
1:B:355:MET:HE2	1:B:369:THR:CG2	2.35	0.57
1:B:741:VAL:HG11	1:B:791:VAL:HG11	1.84	0.57
1:C:91:THR:HG23	1:C:91:THR:O	2.03	0.57
1:C:376:LEU:O	1:C:377:LEU:C	2.46	0.57
1:C:439:GLN:HG3	1:C:440:GLY:H	1.68	0.57
1:C:461:GLY:HA2	1:C:869:SER:HB2	1.85	0.57
1:C:838:GLY:HA2	1:C:841:MET:HG3	1.84	0.57
1:A:79:SER:C	1:A:79:SER:CB	2.73	0.57
1:A:472:ILE:N	1:A:472:ILE:CD1	2.68	0.57
1:A:578:LEU:CG	1:A:587:THR:HG23	2.34	0.57
1:A:632:LYS:O	1:A:637:ARG:HD3	2.03	0.57
1:A:801:PHE:HD1	1:A:805:SER:HB2	1.69	0.57
1:A:914:LEU:HD13	1:A:917:THR:HG22	1.85	0.57
1:B:193:LEU:O	1:B:195:LYS:N	2.36	0.57
1:B:408:ASP:OD2	1:B:442:LEU:HA	2.04	0.57
1:B:669:PRO:HB2	1:B:862:MET:CE	2.25	0.57
1:B:833:PRO:HG2	1:B:834:GLY:N	2.18	0.57
1:C:189:ASN:HD22	1:C:190:PRO:HD3	1.68	0.57
1:C:208:LYS:HA	1:C:760:ASN:ND2	2.19	0.57
1:C:1036:LYS:HE2	1:C:1036:LYS:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:372:VAL:HB	1:A:373:PRO:CD	2.34	0.57
1:A:474:ILE:O	1:A:475:VAL:C	2.46	0.57
1:A:552:MET:O	1:A:555:LEU:N	2.37	0.57
1:A:930:GLY:C	1:A:932:LEU:N	2.63	0.57
1:A:1012:VAL:HG12	1:A:1013:THR:N	2.18	0.57
1:B:14:VAL:HA	1:B:17:ILE:HD12	1.86	0.57
1:B:831:ALA:CB	1:B:840:ALA:HB2	2.35	0.57
1:C:198:LEU:CD1	1:C:251:LEU:HD13	2.31	0.57
1:C:492:LEU:HD22	1:C:496:MET:SD	2.45	0.57
1:A:176:GLN:NE2	2:A:2002:DM2:C11	2.67	0.57
1:A:191:ASN:C	1:A:193:LEU:N	2.39	0.57
1:A:425:LEU:HD13	1:A:429:GLU:HG2	1.87	0.57
1:A:459:PHE:CE1	1:A:467:TYR:CE2	2.92	0.57
1:A:593:GLU:C	1:A:595:THR:N	2.60	0.57
1:A:600:THR:O	1:A:602:GLU:N	2.38	0.57
1:A:790:TYR:HD1	1:A:799:VAL:C	2.11	0.57
1:A:893:GLU:HB3	1:C:10:ILE:HD13	1.87	0.57
1:B:199:THR:C	1:B:201:VAL:H	2.11	0.57
1:B:305:ALA:O	1:B:308:ALA:N	2.37	0.57
1:C:4:PHE:O	1:C:8:ARG:CZ	2.52	0.57
1:C:279:ALA:CB	1:C:611:ALA:O	2.53	0.57
1:C:394:THR:HG22	1:C:395:MET:H	1.67	0.57
1:C:711:ASP:CG	1:C:712:MET:N	2.62	0.57
1:C:818:ARG:HA	1:C:824:SER:N	2.19	0.57
1:A:787:GLY:C	1:A:789:TRP:N	2.62	0.57
1:A:978:THR:OG1	1:A:979:SER:N	2.34	0.57
1:B:173:GLY:N	1:B:292:LYS:O	2.38	0.57
1:B:559:LEU:HD23	1:B:923:ASN:HD22	1.68	0.57
1:C:165:ALA:CB	1:C:165:ALA:C	2.75	0.57
1:C:166:ILE:HG22	1:C:167:SER:N	2.19	0.57
1:C:605:ASN:OD1	1:C:647:ILE:HD12	2.05	0.57
1:A:102:ILE:HG22	1:A:103:ALA:N	2.17	0.57
1:A:280:GLU:HA	1:A:286:ALA:HB2	1.86	0.57
1:A:406:VAL:O	1:A:408:ASP:N	2.37	0.57
1:A:727:PHE:CZ	1:A:783:PRO:HB3	2.38	0.57
1:A:781:MET:HG3	1:C:225:VAL:HG11	1.86	0.57
1:B:14:VAL:CG1	1:C:890:ALA:HB2	2.24	0.57
1:B:45:ILE:HD13	1:B:69:MET:CE	2.34	0.57
1:B:48:SER:N	1:B:49:TYR:CE1	2.66	0.57
1:B:172:VAL:O	1:B:173:GLY:O	2.22	0.57
1:B:985:GLY:O	1:B:988:PRO:CD	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:41:PRO:O	1:C:94:PHE:HB2	2.05	0.57
1:C:332:PHE:O	1:C:336:SER:HB3	2.04	0.57
1:C:360:GLN:NE2	1:C:513:PHE:CE2	2.71	0.57
1:C:482:VAL:O	1:C:482:VAL:CG1	2.52	0.57
1:C:778:LYS:C	1:C:779:TYR:CD2	2.82	0.57
1:A:336:SER:O	1:A:337:ILE:C	2.46	0.57
1:A:531:VAL:HA	1:A:534:ILE:HG13	1.85	0.57
1:A:726:GLN:HB3	1:C:235:ILE:CD1	2.35	0.57
1:B:3:ASN:HD22	1:B:4:PHE:H	1.53	0.57
1:B:216:ALA:HB2	1:B:236:ALA:HB2	1.87	0.57
1:B:314:GLU:HB2	1:B:315:PRO:HD3	1.86	0.57
1:B:351:VAL:CG2	1:B:981:ALA:O	2.52	0.57
1:B:544:LEU:HA	1:B:547:ILE:HD12	1.87	0.57
1:B:819:TYR:CZ	1:B:860:THR:OG1	2.57	0.57
1:B:863:SER:O	1:B:864:TYR:C	2.46	0.57
1:B:1023:PRO:O	1:B:1027:VAL:HG23	2.05	0.57
1:C:166:ILE:CG1	1:C:291:ILE:HD11	2.35	0.57
1:C:190:PRO:HD2	1:C:779:TYR:CD1	2.37	0.57
1:C:325:TYR:N	1:C:326:PRO:HD3	2.20	0.57
1:C:948:PHE:N	1:C:948:PHE:CD1	2.73	0.57
1:A:101:ASP:O	1:A:105:VAL:HG23	2.05	0.57
1:A:118:LEU:HA	1:A:118:LEU:HD23	1.86	0.57
1:A:182:TYR:HB2	1:A:769:LYS:NZ	2.20	0.57
1:A:516:PHE:O	1:A:520:PHE:N	2.38	0.57
1:A:819:TYR:H	1:A:824:SER:CB	2.18	0.57
1:A:1013:THR:O	1:A:1015:THR:N	2.37	0.57
1:A:1022:VAL:HA	1:A:1025:PHE:CD2	2.40	0.57
1:B:82:SER:OG	1:B:83:ASP:N	2.36	0.57
1:B:213:GLN:HG2	1:C:56:THR:CG2	2.35	0.57
1:A:55:LYS:O	1:A:59:ASP:N	2.34	0.56
1:A:69:MET:HE1	1:A:111:LEU:N	2.20	0.56
1:A:100:ALA:CB	1:A:131:LYS:HE3	2.28	0.56
1:A:305:ALA:O	1:A:308:ALA:HB3	2.05	0.56
1:B:185:ARG:NH1	1:B:772:TYR:HB3	2.18	0.56
1:B:192:GLU:O	1:B:265:VAL:HG12	2.05	0.56
1:B:339:GLU:HB3	1:B:1000:GLN:OE1	2.05	0.56
1:B:379:THR:HG23	1:B:476:SER:O	2.05	0.56
1:B:407:ASP:OD1	1:B:407:ASP:N	2.35	0.56
1:C:63:GLN:O	1:C:67:GLN:HB3	2.04	0.56
1:C:762:PHE:H	1:C:771:VAL:CG2	2.17	0.56
1:A:464:GLY:O	1:A:467:TYR:HB2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:818:ARG:CB	1:A:823:PRO:HA	2.35	0.56
1:A:821:GLY:HA2	1:C:168:ARG:HH12	1.69	0.56
1:B:225:VAL:H	1:C:781:MET:CE	2.18	0.56
1:B:419:VAL:O	1:B:426:PRO:CG	2.51	0.56
1:B:754:TRP:CZ2	1:B:786:ILE:HA	2.40	0.56
1:B:900:SER:HA	1:B:903:LEU:HD22	1.85	0.56
1:C:77:TYR:CE2	1:C:860:THR:HG22	2.39	0.56
1:C:110:LYS:HA	1:C:113:LEU:HD12	1.86	0.56
1:C:202:ASP:CG	1:C:792:ARG:HH22	2.13	0.56
1:C:657:GLN:NE2	1:C:657:GLN:CA	2.44	0.56
1:C:669:PRO:HG2	1:C:672:VAL:HG12	1.86	0.56
1:C:680:PHE:HA	1:C:863:SER:OG	2.05	0.56
1:A:54:ALA:CB	1:A:816:LEU:HG	2.36	0.56
1:A:193:LEU:CD1	1:A:265:VAL:HG11	2.31	0.56
1:A:223:PRO:HD3	1:B:275:TYR:CG	2.41	0.56
1:A:323:ILE:O	1:A:323:ILE:HG12	2.05	0.56
1:A:375:VAL:HG11	1:A:405:LEU:HD12	1.86	0.56
1:A:686:ASP:OD2	1:A:823:PRO:HG2	2.06	0.56
1:A:713:LEU:CB	1:A:832:ALA:HA	2.29	0.56
1:A:731:ILE:HG23	1:A:746:ILE:CD1	2.35	0.56
1:A:733:GLN:O	1:A:734:GLU:C	2.46	0.56
1:A:831:ALA:O	1:A:832:ALA:HB2	2.05	0.56
1:A:893:GLU:CG	1:C:10:ILE:HD12	2.33	0.56
1:A:902:MET:C	1:A:904:VAL:N	2.64	0.56
1:A:973:ARG:HB3	1:A:974:PRO:CD	2.36	0.56
1:B:204:ILE:O	1:B:206:ALA:N	2.38	0.56
1:B:211:ASN:OD1	1:B:240:LEU:N	2.24	0.56
1:B:291:ILE:HG21	1:B:306:ILE:HD13	1.84	0.56
1:B:314:GLU:HA	1:B:317:PHE:CD2	2.39	0.56
1:B:409:ALA:HB2	1:B:485:ALA:CB	2.28	0.56
1:B:456:MET:HE2	1:B:932:LEU:HD12	1.87	0.56
1:B:541:TYR:C	1:B:543:VAL:H	2.14	0.56
1:B:575:MET:CB	1:B:626:ILE:HG22	2.36	0.56
1:B:901:VAL:HG11	1:B:943:ILE:HD11	1.86	0.56
1:C:111:LEU:O	1:C:113:LEU:N	2.39	0.56
1:C:164:ASP:CG	1:C:168:ARG:HH21	2.13	0.56
1:C:350:LEU:N	1:C:350:LEU:HD23	2.20	0.56
1:C:682:PHE:CE1	1:C:857:TYR:CB	2.87	0.56
1:C:746:ILE:HG21	1:C:804:PHE:HE1	1.69	0.56
1:B:45:ILE:HG23	1:B:129:VAL:HG21	1.87	0.56
1:B:470:PHE:CE2	1:B:929:VAL:HG21	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:696:THR:HG22	1:B:699:ARG:NH2	2.19	0.56
1:B:843:LEU:O	1:B:844:MET:C	2.48	0.56
1:C:645:GLU:O	1:C:645:GLU:OE1	2.24	0.56
1:C:687:GLN:HB2	1:C:854:GLY:O	2.06	0.56
1:C:698:ALA:O	1:C:699:ARG:O	2.24	0.56
1:C:750:LEU:O	1:C:754:TRP:HD1	1.89	0.56
1:A:190:PRO:HD2	1:A:779:TYR:CD2	2.40	0.56
1:A:240:LEU:CD1	1:A:245:GLU:HB3	2.35	0.56
1:A:453:PHE:O	1:A:456:MET:HB2	2.06	0.56
1:B:363:ARG:NH2	1:B:498:LYS:HD2	2.21	0.56
1:B:646:ALA:C	1:B:648:THR:N	2.62	0.56
1:B:723:ASP:HA	1:B:813:SER:HA	1.88	0.56
1:B:733:GLN:NE2	1:B:743:ILE:HG21	2.19	0.56
1:C:60:THR:CG2	1:C:60:THR:C	2.78	0.56
1:C:184:MET:HG2	1:C:246:PHE:HE1	1.69	0.56
1:A:102:ILE:O	1:A:102:ILE:HG23	1.98	0.56
1:A:251:LEU:HD21	1:A:262:LEU:HD12	1.85	0.56
1:A:742:SER:O	1:A:745:ASP:N	2.38	0.56
1:A:895:TRP:HH2	1:C:13:TRP:HB3	1.71	0.56
1:A:901:VAL:O	1:A:904:VAL:HG21	2.05	0.56
1:B:380:PHE:CE1	1:B:398:MET:SD	2.98	0.56
1:B:448:VAL:HG21	1:B:888:LEU:HD21	1.87	0.56
1:B:671:ILE:C	1:B:673:GLU:N	2.62	0.56
1:B:682:PHE:HD1	1:B:859:TRP:CZ3	2.23	0.56
1:C:4:PHE:CA	1:C:8:ARG:HH12	2.19	0.56
1:C:212:ALA:O	1:C:238:THR:O	2.24	0.56
1:C:262:LEU:CD2	1:C:268:ILE:HD11	2.36	0.56
1:C:588:GLN:O	1:C:592:ASN:N	2.37	0.56
1:C:673:GLU:C	1:C:675:GLY:H	2.11	0.56
1:C:817:GLU:HB3	1:C:824:SER:OG	2.06	0.56
1:C:988:PRO:C	1:C:992:SER:OG	2.48	0.56
1:C:990:VAL:CG1	1:C:1005:THR:HG22	2.34	0.56
1:C:994:GLY:CA	1:C:997:SER:HB3	2.34	0.56
1:A:56:THR:O	1:A:56:THR:HG22	2.05	0.56
1:A:394:THR:HG23	1:A:395:MET:HE3	1.85	0.56
1:A:454:VAL:O	1:A:455:PRO:C	2.48	0.56
1:A:459:PHE:CE1	1:A:467:TYR:CD2	2.94	0.56
1:A:513:PHE:CD1	1:A:517:ASN:OD1	2.50	0.56
1:A:865:GLN:O	1:A:867:ARG:N	2.39	0.56
1:B:78:MET:HA	1:B:91:THR:O	2.06	0.56
1:B:522:LYS:C	1:B:524:THR:N	2.64	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:569:GLN:HG3	1:B:668:LEU:HD12	1.86	0.56
1:B:927:PHE:O	1:B:929:VAL:N	2.39	0.56
1:C:58:GLN:HG2	1:C:62:THR:CG2	2.35	0.56
1:C:143:ILE:CD1	1:C:144:ASN:H	2.11	0.56
1:C:198:LEU:HA	1:C:792:ARG:NH2	2.20	0.56
1:C:298:ASN:HB3	1:C:301:ASP:CG	2.31	0.56
1:C:682:PHE:CE1	1:C:857:TYR:HB2	2.41	0.56
1:C:975:ILE:HG22	1:C:976:LEU:HD23	1.86	0.56
1:A:107:VAL:CG1	1:A:107:VAL:HB	2.22	0.56
1:A:111:LEU:HD22	1:A:111:LEU:C	2.26	0.56
1:A:740:GLY:C	1:A:793:ALA:HB1	2.28	0.56
1:A:895:TRP:CZ2	1:C:10:ILE:HG23	2.41	0.56
1:B:298:ASN:HB2	1:B:301:ASP:OD1	2.06	0.56
1:B:415:ASN:O	1:B:415:ASN:OD1	2.24	0.56
1:B:517:ASN:HB3	1:B:521:GLU:OE1	2.06	0.56
1:B:534:ILE:HG23	1:B:541:TYR:CE2	2.41	0.56
1:B:759:VAL:HG21	1:B:773:VAL:HB	1.86	0.56
1:B:952:LEU:C	1:B:954:ASP:N	2.57	0.56
1:C:8:ARG:HH11	1:C:8:ARG:HG3	1.70	0.56
1:C:15:ILE:O	1:C:18:ILE:N	2.38	0.56
1:C:345:VAL:HA	1:C:348:ILE:HD12	1.88	0.56
1:C:448:VAL:HG13	1:C:887:CYS:HB2	1.88	0.56
1:C:596:HIS:O	1:C:599:LEU:N	2.39	0.56
1:C:858:ASP:OD1	1:C:858:ASP:C	2.48	0.56
1:C:925:VAL:C	1:C:927:PHE:H	2.14	0.56
1:A:25:LEU:HD13	1:A:26:ALA:N	2.21	0.56
1:A:104:GLN:HE21	1:B:109:ASN:ND2	2.02	0.56
1:A:455:PRO:O	1:A:458:PHE:HB2	2.06	0.56
1:A:746:ILE:HD13	1:A:804:PHE:CE1	2.40	0.56
1:B:335:ILE:HG21	1:B:995:ALA:HB2	1.86	0.56
1:B:413:VAL:CG1	1:B:414:GLU:N	2.67	0.56
1:B:430:ALA:O	1:B:431:THR:C	2.48	0.56
1:B:801:PHE:CD2	1:B:804:PHE:CE1	2.94	0.56
1:B:837:THR:OG1	1:B:866:GLU:OE2	2.22	0.56
1:B:907:LEU:O	1:B:910:ILE:HG22	2.06	0.56
1:B:946:VAL:HG13	1:B:1026:PHE:HD1	1.63	0.56
1:C:220:GLY:HA3	1:C:231:ASN:HB2	1.88	0.56
1:C:400:LEU:HD12	1:C:933:THR:CB	2.36	0.56
1:C:445:ILE:O	1:C:448:VAL:N	2.33	0.56
1:C:668:LEU:HD23	1:C:668:LEU:N	2.20	0.56
1:C:700:ASN:HA	1:C:703:LEU:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:47:ALA:O	1:A:87:THR:HG22	2.06	0.56
1:A:333:VAL:O	1:A:336:SER:N	2.39	0.56
1:A:713:LEU:HB2	1:A:832:ALA:HB1	1.88	0.56
1:A:827:ILE:C	1:A:828:LEU:HD23	2.31	0.56
1:B:192:GLU:OE2	1:B:192:GLU:CA	2.51	0.56
1:B:193:LEU:HD22	1:B:198:LEU:CB	2.36	0.56
1:B:213:GLN:NE2	1:B:239:ARG:HD2	2.20	0.56
1:B:745:ASP:O	1:B:749:THR:OG1	2.19	0.56
1:B:987:MET:N	1:B:988:PRO:CD	2.68	0.56
1:B:1022:VAL:HG23	1:B:1023:PRO:N	2.17	0.56
1:C:4:PHE:HA	1:C:8:ARG:HH12	1.71	0.56
1:A:43:VAL:O	1:A:43:VAL:HG12	2.05	0.55
1:A:371:ALA:O	1:A:372:VAL:C	2.48	0.55
1:A:420:MET:HE1	1:A:498:LYS:O	2.06	0.55
1:A:472:ILE:HD12	1:A:472:ILE:H	1.71	0.55
1:A:828:LEU:N	1:A:828:LEU:CD2	2.61	0.55
1:B:259:ARG:HH11	1:B:259:ARG:CG	2.11	0.55
1:B:428:LYS:O	1:B:432:ARG:CD	2.54	0.55
1:B:666:PHE:CE1	1:B:830:GLN:NE2	2.73	0.55
1:C:20:MET:O	1:C:377:LEU:CD1	2.48	0.55
1:C:402:ILE:O	1:C:406:VAL:HG23	2.06	0.55
1:C:754:TRP:CZ3	1:C:780:ARG:HB2	2.41	0.55
1:C:975:ILE:HG22	1:C:976:LEU:H	1.67	0.55
1:A:168:ARG:O	1:A:168:ARG:CG	2.43	0.55
1:A:1007:VAL:HG23	1:A:1008:MET:H	1.70	0.55
1:B:293:LEU:CD2	1:B:294:ALA:H	2.19	0.55
1:B:429:GLU:HA	1:B:432:ARG:HB3	1.88	0.55
1:B:770:LYS:C	1:B:771:VAL:HG23	2.31	0.55
1:B:885:PHE:C	1:B:885:PHE:CD2	2.81	0.55
1:C:37:THR:HG22	1:C:39:ALA:H	1.70	0.55
1:C:138:MET:CE	1:C:306:ILE:CD1	2.80	0.55
1:C:161:ASN:CB	1:C:162:MET:CG	2.80	0.55
1:C:588:GLN:O	1:C:589:LYS:C	2.47	0.55
1:C:591:LEU:O	1:C:592:ASN:C	2.49	0.55
1:C:953:MET:HE2	1:C:963:ALA:HB2	1.86	0.55
1:A:240:LEU:HD13	1:A:245:GLU:HB3	1.89	0.55
1:A:367:ILE:HD11	1:A:496:MET:SD	2.46	0.55
1:A:489:THR:N	1:A:490:PRO:HD2	2.21	0.55
1:A:519:MET:HG2	1:A:522:LYS:HE2	1.89	0.55
1:B:474:ILE:O	1:B:475:VAL:C	2.50	0.55
1:B:579:PRO:C	1:B:580:ALA:O	2.50	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:873:ALA:O	1:B:875:SER:N	2.38	0.55
1:C:842:GLU:O	1:C:843:LEU:C	2.50	0.55
1:A:167:SER:HB3	1:A:175:VAL:HG21	1.87	0.55
1:A:228:GLN:OE1	1:B:781:MET:SD	2.64	0.55
1:A:615:PHE:HE1	1:A:617:PHE:CB	2.15	0.55
1:A:726:GLN:N	1:A:810:GLU:O	2.35	0.55
1:B:82:SER:O	1:B:83:ASP:HB2	2.04	0.55
1:B:994:GLY:O	1:B:995:ALA:C	2.49	0.55
1:C:78:MET:HG2	1:C:820:ASN:HA	1.89	0.55
1:C:105:VAL:HG12	1:C:106:GLN:H	1.71	0.55
1:C:157:TYR:CE1	1:C:318:PRO:HD3	2.40	0.55
1:C:513:PHE:HB3	1:C:517:ASN:HB3	1.87	0.55
1:C:657:GLN:HB3	1:C:658:ILE:HD13	1.88	0.55
1:A:393:LEU:CD2	1:A:466:ILE:HG23	2.33	0.55
1:A:568:ASP:CG	1:A:634:TRP:HZ3	2.13	0.55
1:A:731:ILE:HG12	1:A:746:ILE:HG21	1.88	0.55
1:A:803:ALA:HB3	1:A:804:PHE:CD2	2.41	0.55
1:B:252:LYS:HB3	1:B:260:VAL:HG23	1.88	0.55
1:B:431:THR:O	1:B:434:SER:N	2.39	0.55
1:C:328:ASP:C	1:C:328:ASP:OD1	2.47	0.55
1:C:439:GLN:O	1:C:441:ALA:N	2.40	0.55
1:C:705:GLU:C	1:C:707:ALA:N	2.64	0.55
1:A:72:ILE:CA	1:A:106:GLN:HE22	2.13	0.55
1:A:184:MET:HB3	1:A:771:VAL:HG13	1.88	0.55
1:A:353:LEU:C	1:A:355:MET:H	2.14	0.55
1:A:355:MET:HG2	1:A:365:THR:HA	1.88	0.55
1:A:397:GLY:C	1:A:473:THR:HG21	2.32	0.55
1:A:425:LEU:CD1	1:A:429:GLU:HG2	2.36	0.55
1:A:549:VAL:HG12	1:A:550:VAL:N	2.22	0.55
1:A:1013:THR:C	1:A:1015:THR:N	2.63	0.55
1:B:45:ILE:HD13	1:B:69:MET:HE2	1.89	0.55
1:B:186:ILE:HD12	1:B:268:ILE:HG13	1.87	0.55
1:B:675:GLY:O	1:B:676:THR:C	2.49	0.55
1:A:342:LYS:NZ	1:A:989:LEU:HG	2.21	0.55
1:A:426:PRO:O	1:A:430:ALA:CB	2.55	0.55
1:A:457:ALA:O	1:A:458:PHE:CD2	2.60	0.55
1:A:615:PHE:O	1:A:615:PHE:HD1	1.88	0.55
1:A:685:ILE:CG2	1:A:819:TYR:HB3	2.37	0.55
1:A:740:GLY:O	1:A:793:ALA:CB	2.38	0.55
1:B:105:VAL:CG1	1:B:105:VAL:HB	2.20	0.55
1:B:115:MET:O	1:B:123:GLN:NE2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:470:PHE:O	1:B:471:SER:C	2.50	0.55
1:B:478:MET:HE3	1:B:478:MET:CA	2.10	0.55
1:B:859:TRP:HB3	1:B:863:SER:CB	2.37	0.55
1:B:879:ILE:CG2	1:B:880:SER:N	2.70	0.55
1:C:242:SER:O	1:C:243:THR:C	2.49	0.55
1:C:650:ARG:O	1:C:651:ALA:C	2.49	0.55
1:C:1022:VAL:HB	1:C:1023:PRO:HD3	1.88	0.55
1:A:303:ALA:O	1:A:304:ALA:C	2.50	0.55
1:A:607:GLU:HB2	1:A:631:LEU:C	2.32	0.55
1:A:613:ASN:HA	1:A:625:GLY:HA3	1.88	0.55
1:A:712:MET:O	1:A:832:ALA:HB2	2.06	0.55
1:A:901:VAL:HG13	1:A:942:ALA:CB	2.36	0.55
1:B:102:ILE:O	1:B:102:ILE:CG2	2.48	0.55
1:B:119:PRO:CB	1:B:122:VAL:HG23	2.20	0.55
1:B:282:ASN:O	1:B:284:GLN:N	2.39	0.55
1:B:375:VAL:HG13	1:B:480:LEU:HB2	1.89	0.55
1:C:118:LEU:HD13	1:C:118:LEU:H	1.71	0.55
1:C:188:MET:HE1	1:C:200:PRO:HA	1.89	0.55
1:C:407:ASP:O	1:C:411:VAL:HB	2.06	0.55
1:C:842:GLU:CG	1:C:846:GLN:HE21	2.20	0.55
1:A:30:LEU:HD21	1:A:384:ALA:CA	2.37	0.55
1:A:274:ASN:ND2	1:A:276:ASP:OD2	2.39	0.55
1:A:412:VAL:O	1:A:413:VAL:C	2.46	0.55
1:A:594:VAL:HG13	1:A:655:PHE:CZ	2.41	0.55
1:A:922:THR:O	1:A:924:ASP:OD2	2.24	0.55
1:B:1:MET:C	1:B:3:ASN:OD1	2.50	0.55
1:B:204:ILE:C	1:B:206:ALA:N	2.63	0.55
1:B:333:VAL:O	1:B:335:ILE:N	2.40	0.55
1:B:992:SER:CB	1:B:1000:GLN:HE21	2.20	0.55
1:C:49:TYR:O	1:C:52:ALA:CB	2.53	0.55
1:C:146:ASP:O	1:C:148:THR:N	2.40	0.55
1:C:203:VAL:HG13	1:C:262:LEU:HD11	1.89	0.55
1:C:350:LEU:HD13	1:C:984:LEU:CD1	2.35	0.55
1:C:567:GLU:O	1:C:667:ASN:ND2	2.40	0.55
1:C:722:GLU:OE1	1:C:722:GLU:HA	2.06	0.55
1:A:112:GLN:O	1:A:113:LEU:HD12	2.07	0.55
1:A:534:ILE:HG23	1:A:541:TYR:CD2	2.42	0.55
1:A:545:TYR:HB2	1:A:1021:PHE:CE1	2.34	0.55
1:A:617:PHE:CG	2:A:2002:DM2:C2	2.90	0.55
1:B:335:ILE:HG22	1:B:336:SER:N	2.22	0.55
1:C:531:VAL:O	1:C:533:GLY:C	2.50	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:719:ASN:O	1:C:721:LEU:N	2.40	0.55
1:C:721:LEU:O	1:C:721:LEU:CG	2.53	0.55
1:C:933:THR:O	1:C:937:LEU:HB2	2.07	0.55
1:A:1:MET:SD	1:A:487:ILE:HG12	2.47	0.54
1:A:395:MET:CE	1:A:395:MET:HA	2.25	0.54
1:A:418:ARG:CD	1:A:970:MET:HG3	2.33	0.54
1:A:446:ALA:O	1:A:449:LEU:N	2.39	0.54
1:A:545:TYR:HE1	1:A:907:LEU:HD21	1.71	0.54
1:A:590:VAL:O	1:A:594:VAL:HG23	2.06	0.54
1:A:628:PHE:N	1:A:628:PHE:CD2	2.56	0.54
1:A:690:LEU:HD11	1:A:854:GLY:C	2.31	0.54
1:A:736:ALA:HB1	1:A:741:VAL:HG13	1.88	0.54
1:A:818:ARG:CA	1:A:818:ARG:HG2	2.33	0.54
1:B:211:ASN:OD1	1:B:240:LEU:HB2	2.06	0.54
1:C:184:MET:SD	1:C:246:PHE:CD1	3.00	0.54
1:C:219:LEU:C	1:C:221:GLY:N	2.61	0.54
1:C:488:LEU:HG	1:C:492:LEU:HD12	1.89	0.54
1:C:605:ASN:HB3	1:C:637:ARG:CD	2.36	0.54
1:C:642:ASN:HA	1:C:647:ILE:HD11	1.89	0.54
1:C:682:PHE:HE1	1:C:857:TYR:CG	2.25	0.54
1:A:989:LEU:O	1:A:992:SER:N	2.38	0.54
1:B:363:ARG:HH21	1:B:498:LYS:HD2	1.71	0.54
1:B:544:LEU:HB3	1:B:1021:PHE:HZ	1.71	0.54
1:B:969:ARG:O	1:B:973:ARG:NH1	2.41	0.54
1:C:118:LEU:N	1:C:118:LEU:HD13	2.18	0.54
1:C:131:LYS:O	1:C:132:SER:CB	2.50	0.54
1:C:832:ALA:HB1	1:C:833:PRO:HD2	1.90	0.54
1:A:584:GLN:O	1:A:587:THR:N	2.41	0.54
1:B:14:VAL:CG2	1:C:886:LEU:O	2.54	0.54
1:B:136:PHE:HA	1:B:292:LYS:HG3	1.89	0.54
1:B:224:PRO:O	1:B:224:PRO:CG	2.54	0.54
1:C:62:THR:HG23	1:C:80:SER:HB2	1.88	0.54
1:C:77:TYR:CG	1:C:819:TYR:OH	2.57	0.54
1:C:187:TRP:HB3	1:C:776:GLU:HA	1.90	0.54
1:C:189:ASN:O	1:C:193:LEU:CD1	2.53	0.54
1:A:114:ALA:HB3	1:A:115:MET:HG2	1.90	0.54
1:A:122:VAL:O	1:A:125:GLN:N	2.40	0.54
1:A:197:GLN:NE2	1:A:796:GLY:O	2.40	0.54
1:A:200:PRO:O	1:A:203:VAL:N	2.41	0.54
1:A:441:ALA:O	1:A:445:ILE:CG1	2.37	0.54
1:A:575:MET:HB2	1:A:664:PHE:CB	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:698:ALA:CB	1:A:855:VAL:HG11	2.38	0.54
1:B:223:PRO:O	1:B:223:PRO:CD	2.55	0.54
1:B:400:LEU:N	1:B:400:LEU:HD23	2.21	0.54
1:B:820:ASN:ND2	1:B:820:ASN:H	2.05	0.54
1:B:859:TRP:O	1:B:864:TYR:HB2	2.06	0.54
1:B:894:SER:O	1:B:896:SER:N	2.34	0.54
1:B:897:ILE:HD13	1:B:946:VAL:CG1	2.32	0.54
1:C:150:THR:OG1	1:C:152:GLU:CG	2.44	0.54
1:C:252:LYS:N	1:C:260:VAL:HG23	2.19	0.54
1:C:545:TYR:HD1	1:C:545:TYR:H	1.52	0.54
1:C:598:TYR:HB3	1:C:606:VAL:HG21	1.89	0.54
1:C:911:GLY:CA	1:C:1010:GLY:HA2	2.35	0.54
1:A:77:TYR:C	1:A:77:TYR:CD1	2.85	0.54
1:A:472:ILE:O	1:A:475:VAL:N	2.40	0.54
1:A:681:ASP:OD2	1:A:860:THR:HB	2.07	0.54
1:A:683:GLU:OE1	1:A:826:GLU:HG3	2.06	0.54
1:B:9:PRO:HB3	1:B:491:ALA:HB1	1.90	0.54
1:B:17:ILE:O	1:B:21:LEU:HB3	2.08	0.54
1:B:68:ASN:ND2	1:B:114:ALA:HB2	2.20	0.54
1:B:213:GLN:HG3	1:C:56:THR:HG23	1.90	0.54
1:B:228:GLN:CB	1:C:781:MET:HE3	2.35	0.54
1:B:806:SER:O	1:B:807:SER:HB3	2.07	0.54
1:C:157:TYR:CZ	1:C:161:ASN:ND2	2.76	0.54
1:C:545:TYR:O	1:C:547:ILE:N	2.40	0.54
1:A:49:TYR:CD2	1:A:49:TYR:C	2.83	0.54
1:A:77:TYR:C	1:A:77:TYR:HA	2.14	0.54
1:A:396:PHE:CD2	1:A:1003:VAL:HG21	2.43	0.54
1:A:527:TYR:CZ	1:A:972:LEU:HD13	2.42	0.54
1:A:807:SER:C	1:A:808:ARG:HG2	2.33	0.54
1:B:525:HIS:O	1:B:529:ASP:CB	2.56	0.54
1:C:121:GLU:HB3	1:C:758:TYR:OH	2.08	0.54
1:C:186:ILE:HD12	1:C:207:ILE:HD13	1.89	0.54
1:C:322:LYS:HB2	1:C:322:LYS:HZ3	1.71	0.54
1:C:472:ILE:O	1:C:473:THR:C	2.50	0.54
1:C:590:VAL:O	1:C:591:LEU:O	2.25	0.54
1:C:845:GLU:CG	1:C:859:TRP:HH2	2.20	0.54
1:C:1026:PHE:H	1:C:1026:PHE:HD2	1.51	0.54
1:A:483:LEU:C	1:A:483:LEU:HD13	2.33	0.54
1:A:575:MET:SD	1:A:626:ILE:HG13	2.47	0.54
1:B:1:MET:O	1:B:5:PHE:HD1	1.90	0.54
1:B:332:PHE:HB2	1:B:569:GLN:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:425:LEU:CB	1:B:498:LYS:O	2.41	0.54
1:B:787:GLY:C	1:B:789:TRP:H	2.16	0.54
1:B:1022:VAL:HG22	1:B:1023:PRO:HD2	1.88	0.54
1:C:55:LYS:O	1:C:59:ASP:CB	2.56	0.54
1:C:152:GLU:C	1:C:154:ILE:H	2.15	0.54
1:C:545:TYR:N	1:C:545:TYR:CD1	2.72	0.54
1:C:554:TYR:O	1:C:558:ARG:HD2	2.07	0.54
1:A:323:ILE:O	1:A:325:TYR:HE1	1.91	0.54
1:A:705:GLU:OE2	1:A:705:GLU:CA	2.44	0.54
1:A:895:TRP:CH2	1:C:13:TRP:HB3	2.42	0.54
1:B:142:VAL:HG13	1:B:322:LYS:O	2.08	0.54
1:B:199:THR:CG2	1:B:749:THR:HG21	2.38	0.54
1:B:242:SER:HB2	1:B:245:GLU:CD	2.27	0.54
1:B:254:ASN:O	1:B:255:GLN:C	2.51	0.54
1:B:406:VAL:HG23	1:B:407:ASP:OD1	2.08	0.54
1:B:428:LYS:O	1:B:432:ARG:HD2	2.08	0.54
1:B:518:ARG:HA	1:B:521:GLU:CB	2.29	0.54
1:C:211:ASN:OD1	1:C:246:PHE:HE2	1.90	0.54
1:C:644:VAL:HG11	1:C:667:ASN:HB2	1.90	0.54
1:C:873:ALA:C	1:C:876:LEU:H	2.16	0.54
1:C:1027:VAL:O	1:C:1031:ARG:HB2	2.08	0.54
1:A:167:SER:HB3	1:A:175:VAL:HG11	1.90	0.54
1:A:871:ASN:HD21	1:A:874:PRO:HG2	1.73	0.54
1:B:34:GLN:CB	1:B:333:VAL:HG21	2.25	0.54
1:B:278:ILE:HD11	1:B:584:GLN:NE2	2.23	0.54
1:B:305:ALA:O	1:B:306:ILE:C	2.50	0.54
1:B:355:MET:HE1	1:B:368:PRO:O	2.07	0.54
1:B:605:ASN:CG	1:B:647:ILE:CD1	2.80	0.54
1:C:56:THR:O	1:C:60:THR:HB	2.08	0.54
1:C:65:ILE:CD1	1:C:111:LEU:CD1	2.75	0.54
1:C:191:ASN:HA	1:C:194:ASN:ND2	2.23	0.54
1:C:696:THR:O	1:C:699:ARG:N	2.40	0.54
1:C:861:GLY:O	1:C:862:MET:C	2.50	0.54
1:A:171:GLY:HA2	1:A:294:ALA:CB	2.39	0.54
1:A:529:ASP:O	1:A:530:SER:C	2.51	0.54
1:A:635:ALA:O	1:A:637:ARG:N	2.41	0.54
1:A:680:PHE:C	1:A:680:PHE:CD1	2.85	0.54
1:A:767:ARG:HH21	1:B:67:GLN:NE2	1.92	0.54
1:B:574:THR:HA	1:B:665:ALA:HA	1.89	0.54
1:B:870:GLY:C	1:B:872:GLN:N	2.64	0.54
1:C:153:ASP:N	1:C:182:TYR:OH	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:422:GLU:C	1:C:424:GLY:H	2.15	0.54
1:C:595:THR:CG2	1:C:609:VAL:CG1	2.85	0.54
1:C:613:ASN:OD1	1:C:613:ASN:C	2.47	0.54
1:C:746:ILE:HG22	1:C:801:PHE:CE1	2.42	0.54
1:C:966:ASP:HA	1:C:969:ARG:HG3	1.89	0.54
1:A:64:VAL:O	1:A:65:ILE:O	2.26	0.53
1:A:198:LEU:HD22	1:A:202:ASP:CG	2.33	0.53
1:A:395:MET:HE2	1:A:395:MET:CA	2.38	0.53
1:A:846:GLN:O	1:A:849:SER:N	2.36	0.53
1:A:886:LEU:HD23	1:C:17:ILE:CG2	2.37	0.53
1:B:160:ALA:HB1	1:B:767:ARG:NE	2.23	0.53
1:B:351:VAL:HG21	1:B:981:ALA:C	2.33	0.53
1:B:863:SER:O	1:B:865:GLN:N	2.41	0.53
1:C:69:MET:HE2	1:C:92:LEU:CD2	2.36	0.53
1:C:84:SER:C	1:C:86:GLY:H	2.16	0.53
1:C:203:VAL:CG1	1:C:207:ILE:HD11	2.37	0.53
1:C:348:ILE:HG22	1:C:349:ILE:HD13	1.88	0.53
1:C:928:GLN:NE2	1:C:928:GLN:H	2.05	0.53
1:A:238:THR:HG22	1:A:239:ARG:O	2.08	0.53
1:A:382:VAL:HG11	1:A:476:SER:OG	2.08	0.53
1:A:674:LEU:CG	1:A:675:GLY:H	2.21	0.53
1:A:737:GLN:OE1	1:C:250:LEU:HD11	2.09	0.53
1:A:785:ASP:O	1:A:786:ILE:C	2.51	0.53
1:A:790:TYR:CD1	1:A:799:VAL:O	2.52	0.53
1:A:944:LEU:O	1:A:945:ILE:C	2.51	0.53
1:B:118:LEU:O	1:B:119:PRO:C	2.51	0.53
1:B:578:LEU:H	1:B:578:LEU:HD13	1.72	0.53
1:C:102:ILE:CD1	1:C:102:ILE:N	2.66	0.53
1:C:256:ASP:C	1:C:258:SER:H	2.13	0.53
1:C:306:ILE:O	1:C:307:ARG:C	2.47	0.53
1:C:601:LYS:HG2	1:C:602:GLU:HG2	1.90	0.53
1:C:605:ASN:N	1:C:605:ASN:ND2	2.55	0.53
1:C:847:LEU:C	1:C:850:LYS:HG2	2.31	0.53
1:C:953:MET:HG3	1:C:963:ALA:CB	2.38	0.53
1:A:47:ALA:HB3	1:A:88:VAL:CG2	2.37	0.53
1:A:358:PHE:CG	1:A:977:MET:HG2	2.43	0.53
1:A:574:THR:HG21	1:A:594:VAL:HG12	1.88	0.53
1:B:36:PRO:O	1:B:38:ILE:CG1	2.55	0.53
1:B:219:LEU:HD23	1:B:234:ILE:HD11	1.90	0.53
1:B:482:VAL:CG1	1:B:483:LEU:N	2.71	0.53
1:B:554:TYR:HB2	1:B:555:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:602:GLU:OE1	1:B:650:ARG:NH1	2.41	0.53
1:B:716:VAL:O	1:B:716:VAL:HG12	2.07	0.53
1:C:3:ASN:C	1:C:6:ILE:HG22	2.33	0.53
1:C:24:GLY:O	1:C:28:LEU:HD12	2.08	0.53
1:C:169:THR:O	1:C:170:SER:O	2.26	0.53
1:C:597:TYR:CD2	1:C:598:TYR:N	2.77	0.53
1:C:912:ALA:C	1:C:914:LEU:N	2.47	0.53
1:C:912:ALA:H	1:C:1010:GLY:CA	2.21	0.53
1:C:945:ILE:HG12	1:C:971:ARG:CB	2.38	0.53
1:C:1025:PHE:O	1:C:1029:VAL:CG2	2.26	0.53
1:B:3:ASN:O	1:B:5:PHE:N	2.42	0.53
1:B:189:ASN:ND2	1:B:192:GLU:HG2	2.23	0.53
1:B:525:HIS:O	1:B:529:ASP:N	2.34	0.53
1:B:640:GLU:N	1:B:641:GLU:OE1	2.41	0.53
1:B:671:ILE:HG21	1:B:676:THR:CG2	2.33	0.53
1:C:50:PRO:HD3	1:C:125:GLN:NE2	2.23	0.53
1:C:175:VAL:HG12	1:C:289:LEU:HB3	1.88	0.53
1:A:166:ILE:O	1:A:169:THR:OG1	2.26	0.53
1:A:629:VAL:HG12	1:A:630:SER:N	2.23	0.53
1:A:779:TYR:HD1	1:A:779:TYR:H	1.55	0.53
1:A:802:SER:O	1:A:803:ALA:C	2.51	0.53
1:A:911:GLY:CA	1:A:1013:THR:HG21	2.38	0.53
1:B:157:TYR:CE2	1:B:161:ASN:HB2	2.43	0.53
1:B:184:MET:CE	1:B:246:PHE:CD2	2.90	0.53
1:B:200:PRO:C	1:B:203:VAL:HG23	2.33	0.53
1:B:223:PRO:HG2	1:C:780:ARG:HH22	1.73	0.53
1:B:327:TYR:HD2	1:B:628:PHE:HB3	1.71	0.53
1:B:597:TYR:CZ	1:B:651:ALA:HA	2.44	0.53
1:B:609:VAL:O	1:B:609:VAL:HG12	2.07	0.53
1:B:750:LEU:C	1:B:750:LEU:HD23	2.30	0.53
1:B:859:TRP:CB	1:B:863:SER:HB3	2.38	0.53
1:B:927:PHE:O	1:B:930:GLY:N	2.41	0.53
1:C:152:GLU:C	1:C:154:ILE:N	2.66	0.53
1:C:165:ALA:HA	1:C:168:ARG:HG3	1.91	0.53
1:C:312:LYS:O	1:C:312:LYS:CG	2.56	0.53
1:C:317:PHE:HB3	1:C:318:PRO:HD2	1.90	0.53
1:C:860:THR:O	1:C:861:GLY:C	2.51	0.53
1:C:873:ALA:HA	1:C:876:LEU:HB2	1.90	0.53
1:A:81:ASN:N	1:A:81:ASN:OD1	2.41	0.53
1:A:98:THR:CG2	1:A:99:ASP:N	2.65	0.53
1:A:115:MET:C	1:A:117:LEU:N	2.66	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:526:HIS:C	1:A:526:HIS:ND1	2.66	0.53
1:B:350:LEU:HB3	1:B:984:LEU:HD12	1.90	0.53
1:B:371:ALA:C	1:B:375:VAL:HG23	2.33	0.53
1:B:478:MET:O	1:B:480:LEU:N	2.42	0.53
1:B:563:PHE:O	1:B:564:LEU:CG	2.50	0.53
1:B:820:ASN:O	1:B:822:LEU:N	2.42	0.53
1:C:177:LEU:HD22	1:C:178:PHE:N	2.24	0.53
1:C:403:GLY:O	1:C:405:LEU:N	2.38	0.53
1:C:528:THR:HA	1:C:531:VAL:HG21	1.91	0.53
1:A:111:LEU:CD1	1:A:111:LEU:CD2	2.74	0.53
1:A:362:PHE:CE2	1:A:366:LEU:CD1	2.91	0.53
1:A:513:PHE:O	1:A:515:TRP:N	2.41	0.53
1:A:778:LYS:CB	1:A:779:TYR:HE1	2.17	0.53
1:B:587:THR:CG2	1:B:623:ASN:HA	2.39	0.53
1:B:690:LEU:CD1	1:B:694:LYS:HG3	2.38	0.53
1:C:203:VAL:O	1:C:207:ILE:HG13	2.09	0.53
1:C:360:GLN:NE2	1:C:513:PHE:CD2	2.77	0.53
1:C:545:TYR:OH	1:C:1021:PHE:CG	2.60	0.53
1:C:663:VAL:CG1	1:C:664:PHE:N	2.72	0.53
1:C:790:TYR:HA	1:C:800:PRO:HA	1.90	0.53
1:A:143:ILE:HG21	1:A:281:PHE:CD2	2.44	0.53
1:A:189:ASN:HD21	1:A:192:GLU:HB3	1.73	0.53
1:A:339:GLU:OE2	1:A:989:LEU:HD12	2.08	0.53
1:A:515:TRP:CD1	1:A:516:PHE:CD1	2.96	0.53
1:B:190:PRO:HB2	1:B:788:ASP:O	2.09	0.53
1:B:379:THR:O	1:B:380:PHE:O	2.27	0.53
1:B:534:ILE:HA	1:B:541:TYR:CE1	2.44	0.53
1:B:836:SER:C	1:B:838:GLY:N	2.65	0.53
1:B:974:PRO:C	1:B:976:LEU:N	2.63	0.53
1:B:982:PHE:HE2	1:B:1007:VAL:O	1.91	0.53
1:C:184:MET:CE	1:C:184:MET:CA	2.85	0.53
1:C:249:ILE:HG22	1:C:262:LEU:HB3	1.90	0.53
1:C:380:PHE:HD1	1:C:380:PHE:N	2.04	0.53
1:C:483:LEU:HG	1:C:487:ILE:HD12	1.91	0.53
1:C:896:SER:C	1:C:898:PRO:HD2	2.34	0.53
1:C:1023:PRO:O	1:C:1025:PHE:N	2.41	0.53
1:A:47:ALA:O	1:A:88:VAL:HG23	2.08	0.53
1:A:60:THR:C	1:A:61:VAL:HG23	2.33	0.53
1:A:99:ASP:OD1	1:A:100:ALA:N	2.42	0.53
1:A:184:MET:CB	1:A:771:VAL:HG22	2.35	0.53
1:A:193:LEU:HB2	1:A:265:VAL:HG22	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:244:GLU:CG	1:A:248:LYS:NZ	2.71	0.53
1:A:280:GLU:HB2	1:A:284:GLN:O	2.09	0.53
1:A:315:PRO:C	1:A:316:PHE:HD1	2.16	0.53
1:A:419:VAL:O	1:A:424:GLY:HA3	2.08	0.53
1:A:437:GLN:HB3	1:A:948:PHE:CE2	2.44	0.53
1:A:705:GLU:HG3	1:A:847:LEU:HD13	1.90	0.53
2:A:2002:DM2:O8	2:A:2002:DM2:H1'	2.09	0.53
1:B:104:GLN:NE2	1:B:104:GLN:CA	2.63	0.53
1:B:111:LEU:O	1:B:113:LEU:N	2.42	0.53
1:B:195:LYS:O	1:B:195:LYS:CD	2.57	0.53
1:B:199:THR:O	1:B:202:ASP:N	2.41	0.53
1:B:455:PRO:O	1:B:456:MET:C	2.51	0.53
1:C:513:PHE:HB3	1:C:517:ASN:N	2.19	0.53
1:C:564:LEU:HD21	1:C:671:ILE:HD12	1.83	0.53
1:C:685:ILE:HG21	1:C:687:GLN:CD	2.34	0.53
1:A:445:ILE:O	1:A:449:LEU:HB2	2.09	0.53
1:A:961:ILE:O	1:A:962:GLU:C	2.52	0.53
1:A:1022:VAL:N	1:A:1025:PHE:HD2	2.07	0.53
1:B:399:VAL:CG1	1:B:989:LEU:HD22	2.38	0.53
1:B:915:ALA:HB1	1:B:1009:GLY:HA3	1.89	0.53
1:C:5:PHE:HA	1:C:8:ARG:O	2.09	0.53
1:C:220:GLY:N	1:C:231:ASN:HA	2.24	0.53
1:C:358:PHE:HB2	1:C:977:MET:CE	2.39	0.53
1:A:49:TYR:O	1:A:49:TYR:CG	2.56	0.52
1:A:83:ASP:HA	1:A:815:ARG:HA	1.90	0.52
1:A:945:ILE:HG21	1:A:1022:VAL:HG22	1.86	0.52
1:B:120:GLN:HA	1:B:123:GLN:HB2	1.90	0.52
1:B:185:ARG:HH12	1:B:772:TYR:HB3	1.74	0.52
1:B:431:THR:HG22	1:B:493:CYS:CB	2.39	0.52
1:B:595:THR:HG23	1:B:609:VAL:CG1	2.39	0.52
1:B:905:VAL:O	1:B:907:LEU:N	2.42	0.52
1:C:531:VAL:O	1:C:532:GLY:C	2.51	0.52
1:C:583:THR:O	1:C:583:THR:OG1	2.25	0.52
1:C:692:HIS:HE1	1:C:721:LEU:HD21	1.72	0.52
1:C:735:LYS:O	1:C:739:LEU:HD12	2.08	0.52
1:C:749:THR:O	1:C:750:LEU:C	2.51	0.52
1:A:165:ALA:O	1:A:168:ARG:HG2	2.09	0.52
1:A:183:ALA:N	1:A:271:GLY:O	2.42	0.52
1:A:515:TRP:CE2	1:A:516:PHE:CE1	2.97	0.52
1:A:680:PHE:HB2	1:A:859:TRP:HZ3	1.72	0.52
1:A:725:PRO:HA	1:A:810:GLU:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:901:VAL:HG11	1:A:943:ILE:HG13	1.90	0.52
1:A:1004:GLY:C	1:A:1006:GLY:N	2.66	0.52
1:B:53:ASP:O	1:B:53:ASP:OD2	2.27	0.52
1:B:157:TYR:CD1	1:B:161:ASN:ND2	2.78	0.52
1:B:185:ARG:CG	1:B:185:ARG:NH1	2.69	0.52
1:C:191:ASN:N	1:C:194:ASN:ND2	2.58	0.52
1:C:251:LEU:HD12	1:C:265:VAL:CG1	2.39	0.52
1:C:317:PHE:HB2	1:C:318:PRO:HD2	1.90	0.52
1:C:657:GLN:C	1:C:659:LYS:H	2.15	0.52
1:C:699:ARG:NH1	1:C:700:ASN:OD1	2.42	0.52
1:C:726:GLN:CD	1:C:812:GLY:HA3	2.34	0.52
1:C:912:ALA:N	1:C:1010:GLY:HA2	2.23	0.52
1:C:1007:VAL:HG12	1:C:1008:MET:N	2.24	0.52
1:A:5:PHE:HD2	1:A:12:ALA:HB2	1.70	0.52
1:A:719:ASN:N	1:A:826:GLU:O	2.26	0.52
1:B:49:TYR:OH	1:B:126:GLY:O	2.22	0.52
1:B:223:PRO:HB3	1:C:275:TYR:CG	2.44	0.52
1:B:234:ILE:O	1:B:235:ILE:C	2.50	0.52
1:B:705:GLU:HB3	1:B:847:LEU:CD2	2.40	0.52
1:B:773:VAL:O	1:B:773:VAL:HG12	2.10	0.52
1:C:120:GLN:O	1:C:123:GLN:HB3	2.10	0.52
1:C:203:VAL:O	1:C:204:ILE:C	2.50	0.52
1:C:251:LEU:HD11	1:C:265:VAL:HG11	1.87	0.52
1:C:380:PHE:N	1:C:380:PHE:CD1	2.77	0.52
1:C:564:LEU:HD23	1:C:671:ILE:HD12	1.85	0.52
1:C:727:PHE:CZ	1:C:807:SER:OG	2.61	0.52
1:A:60:THR:HB	1:A:61:VAL:HG23	1.91	0.52
1:A:578:LEU:HD12	1:A:587:THR:CA	2.40	0.52
1:A:652:THR:HG22	1:A:653:ARG:N	2.24	0.52
1:A:713:LEU:C	1:A:714:THR:OG1	2.51	0.52
1:B:17:ILE:HD12	1:C:886:LEU:HD22	1.90	0.52
1:B:102:ILE:O	1:B:105:VAL:HB	2.10	0.52
1:B:692:HIS:O	1:B:693:GLU:C	2.52	0.52
1:B:733:GLN:CD	1:B:743:ILE:HG21	2.34	0.52
1:B:736:ALA:C	1:B:738:ALA:H	2.17	0.52
1:C:200:PRO:C	1:C:202:ASP:N	2.66	0.52
1:C:455:PRO:HG3	1:C:880:SER:HB2	1.90	0.52
1:C:562:SER:HB2	1:C:922:THR:HG21	1.90	0.52
1:C:639:GLY:O	1:C:641:GLU:N	2.42	0.52
1:A:13:TRP:O	1:A:17:ILE:HG13	2.08	0.52
1:A:47:ALA:HB3	1:A:88:VAL:HG21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:655:PHE:C	1:A:656:SER:O	2.46	0.52
1:A:768:VAL:HG23	1:A:768:VAL:O	2.09	0.52
1:A:863:SER:O	1:A:867:ARG:HB2	2.10	0.52
1:A:1022:VAL:CA	1:A:1025:PHE:HD2	2.23	0.52
1:A:1024:VAL:O	1:A:1025:PHE:C	2.52	0.52
1:B:361:ASN:O	1:B:365:THR:CB	2.56	0.52
1:B:589:LYS:O	1:B:592:ASN:N	2.41	0.52
1:B:639:GLY:C	1:B:643:LYS:HZ2	2.18	0.52
1:B:756:GLY:HA2	1:B:773:VAL:O	2.09	0.52
1:C:83:ASP:CG	1:C:87:THR:HG22	2.31	0.52
1:C:180:SER:OG	1:C:181:GLN:N	2.42	0.52
1:C:742:SER:O	1:C:743:ILE:C	2.53	0.52
1:C:743:ILE:C	1:C:746:ILE:HG13	2.32	0.52
1:C:762:PHE:CD1	1:C:763:ILE:C	2.88	0.52
1:C:831:ALA:O	1:C:832:ALA:O	2.28	0.52
1:A:138:MET:CE	1:A:306:ILE:HB	2.40	0.52
1:A:395:MET:HE2	1:A:395:MET:HA	1.92	0.52
1:A:443:VAL:O	1:A:444:GLY:C	2.49	0.52
1:A:495:THR:C	1:A:496:MET:HG2	2.34	0.52
1:B:196:PHE:CE1	1:B:260:VAL:CG1	2.93	0.52
1:B:347:ALA:O	1:B:348:ILE:C	2.51	0.52
1:B:367:ILE:HG12	1:B:492:LEU:HD12	1.90	0.52
1:B:492:LEU:O	1:B:496:MET:HB3	2.08	0.52
1:B:634:TRP:HZ3	1:B:637:ARG:NH1	2.02	0.52
1:C:294:ALA:O	1:C:296:GLY:N	2.42	0.52
1:C:459:PHE:CE1	1:C:464:GLY:HA2	2.44	0.52
1:C:572:PHE:HE2	1:C:631:LEU:HD11	1.74	0.52
1:C:711:ASP:C	1:C:713:LEU:N	2.61	0.52
1:A:244:GLU:O	1:A:245:GLU:C	2.50	0.52
1:A:355:MET:HE3	1:A:355:MET:HA	1.92	0.52
1:A:531:VAL:O	1:A:534:ILE:HB	2.09	0.52
1:A:644:VAL:C	1:A:646:ALA:N	2.66	0.52
1:A:737:GLN:HE22	1:C:250:LEU:HG	1.74	0.52
1:A:741:VAL:O	1:A:741:VAL:CG1	2.57	0.52
1:A:764:ASP:OD2	1:A:764:ASP:C	2.53	0.52
1:A:818:ARG:CG	1:A:818:ARG:C	2.83	0.52
1:A:1013:THR:HB	1:A:1017:LEU:HD23	1.91	0.52
1:B:176:GLN:HE21	1:B:176:GLN:C	2.16	0.52
1:B:619:GLY:HA3	1:B:721:LEU:CD2	2.39	0.52
1:B:790:TYR:HD1	1:B:800:PRO:CB	2.22	0.52
1:B:916:ALA:HB1	1:B:921:LEU:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:119:PRO:O	1:C:120:GLN:C	2.51	0.52
1:C:146:ASP:O	1:C:147:GLY:C	2.52	0.52
1:C:158:VAL:CG1	1:C:159:ALA:N	2.72	0.52
1:C:644:VAL:O	1:C:648:THR:HB	2.10	0.52
1:C:865:GLN:HA	1:C:868:LEU:HB2	1.92	0.52
1:C:974:PRO:O	1:C:975:ILE:O	2.28	0.52
1:A:45:ILE:CG2	1:A:90:ILE:HD12	2.38	0.52
1:A:53:ASP:OD2	1:A:53:ASP:C	2.51	0.52
1:A:191:ASN:O	1:A:192:GLU:C	2.39	0.52
1:A:218:GLN:NE2	1:A:221:GLY:HA3	2.24	0.52
1:A:379:THR:HA	1:A:382:VAL:HG23	1.90	0.52
1:A:465:ALA:O	1:A:466:ILE:C	2.52	0.52
1:A:760:ASN:O	1:A:771:VAL:HB	2.09	0.52
1:A:939:ALA:O	1:A:942:ALA:HB3	2.10	0.52
1:B:448:VAL:CG2	1:B:888:LEU:HD21	2.40	0.52
1:B:741:VAL:CG1	1:B:791:VAL:HG11	2.39	0.52
1:B:762:PHE:HD2	1:B:771:VAL:CG2	2.22	0.52
1:B:867:ARG:O	1:B:871:ASN:ND2	2.42	0.52
1:B:915:ALA:CB	1:B:1009:GLY:CA	2.79	0.52
1:B:969:ARG:CZ	1:B:969:ARG:HB2	2.40	0.52
1:C:6:ILE:CD1	1:C:494:ALA:CB	2.87	0.52
1:C:32:VAL:O	1:C:300:LEU:HD13	2.09	0.52
1:C:34:GLN:HB2	1:C:35:TYR:CD1	2.45	0.52
1:C:119:PRO:HG2	1:C:122:VAL:CG2	2.40	0.52
1:C:595:THR:CG2	1:C:609:VAL:HG11	2.39	0.52
1:A:6:ILE:O	1:A:9:PRO:HG3	2.10	0.52
1:A:167:SER:CB	1:A:175:VAL:CG1	2.87	0.52
1:A:214:VAL:HG23	1:A:237:GLN:HB3	1.92	0.52
1:A:274:ASN:HD22	1:A:276:ASP:H	1.49	0.52
1:A:298:ASN:C	1:A:300:LEU:N	2.65	0.52
1:A:615:PHE:CE1	1:A:617:PHE:N	2.75	0.52
1:A:685:ILE:HA	1:A:824:SER:HA	1.91	0.52
1:A:777:ALA:O	1:A:781:MET:HG2	2.10	0.52
1:A:880:SER:C	1:A:882:ILE:N	2.67	0.52
1:B:76:MET:HG3	1:B:95:GLU:HG3	1.92	0.52
1:B:453:PHE:CE1	1:B:933:THR:HG23	2.40	0.52
1:B:514:GLY:CA	1:B:517:ASN:HD22	2.21	0.52
1:B:564:LEU:HD23	1:B:926:TYR:CE2	2.45	0.52
1:B:602:GLU:O	1:B:604:ASN:N	2.42	0.52
1:B:626:ILE:CD1	1:B:628:PHE:CZ	2.92	0.52
1:B:791:VAL:CG2	1:B:801:PHE:CE2	2.89	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:800:PRO:O	1:B:803:ALA:HB3	2.10	0.52
1:B:1012:VAL:HG12	1:B:1013:THR:N	2.24	0.52
1:C:5:PHE:HD2	1:C:12:ALA:H	1.56	0.52
1:C:778:LYS:HD2	1:C:779:TYR:HE2	1.75	0.52
1:C:873:ALA:O	1:C:876:LEU:N	2.43	0.52
1:A:84:SER:O	1:A:85:THR:CG2	2.58	0.52
1:A:190:PRO:HD2	1:A:779:TYR:HD2	1.73	0.52
1:A:613:ASN:HA	1:A:625:GLY:CA	2.40	0.52
1:B:26:ALA:O	1:B:30:LEU:CB	2.55	0.52
1:B:453:PHE:HA	1:B:456:MET:HE3	1.92	0.52
1:B:545:TYR:O	1:B:546:LEU:C	2.52	0.52
1:B:907:LEU:N	1:B:907:LEU:HD23	2.23	0.52
1:C:44:THR:CG2	1:C:91:THR:HA	2.37	0.52
1:C:49:TYR:CG	1:C:52:ALA:HB2	2.45	0.52
1:C:161:ASN:C	1:C:162:MET:HG3	2.34	0.52
1:C:363:ARG:O	1:C:367:ILE:HG13	2.10	0.52
1:C:938:SER:O	1:C:941:ASN:ND2	2.43	0.52
1:A:79:SER:O	1:A:91:THR:O	2.28	0.51
1:A:139:VAL:O	1:A:139:VAL:CG1	2.58	0.51
1:A:578:LEU:CD1	1:A:587:THR:CA	2.88	0.51
1:A:609:VAL:CG1	1:A:629:VAL:HG22	2.38	0.51
1:B:117:LEU:H	1:B:117:LEU:CD1	2.20	0.51
1:B:478:MET:O	1:B:479:ALA:C	2.53	0.51
1:C:379:THR:O	1:C:382:VAL:HB	2.11	0.51
1:C:546:LEU:O	1:C:550:VAL:HG23	2.10	0.51
1:C:750:LEU:O	1:C:754:TRP:CD1	2.62	0.51
1:C:950:LYS:HD3	1:C:954:ASP:CG	2.34	0.51
1:A:68:ASN:C	1:A:69:MET:CA	2.78	0.51
1:A:174:ASP:HA	1:B:70:ASN:HD21	1.69	0.51
1:A:420:MET:CE	1:A:498:LYS:O	2.58	0.51
1:B:75:LEU:HA	1:B:94:PHE:HD1	1.74	0.51
1:B:184:MET:HE1	1:B:242:SER:O	2.11	0.51
1:B:428:LYS:O	1:B:432:ARG:CB	2.54	0.51
1:B:484:VAL:HG12	1:B:485:ALA:N	2.26	0.51
1:B:836:SER:O	1:B:838:GLY:N	2.43	0.51
1:B:949:ALA:C	1:B:951:ASP:H	2.18	0.51
1:B:1027:VAL:O	1:B:1030:ARG:N	2.43	0.51
1:C:169:THR:O	1:C:169:THR:CG2	2.58	0.51
1:C:278:ILE:HG23	1:C:279:ALA:N	2.25	0.51
1:C:350:LEU:HD12	1:C:984:LEU:C	2.36	0.51
1:C:901:VAL:CG1	1:C:943:ILE:HG13	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:904:VAL:O	1:C:905:VAL:C	2.52	0.51
1:C:953:MET:CE	1:C:963:ALA:CB	2.88	0.51
1:A:307:ARG:NH1	1:A:325:TYR:CE2	2.78	0.51
1:A:615:PHE:CE1	1:A:617:PHE:CB	2.88	0.51
1:A:649:MET:HB3	1:A:653:ARG:HH21	1.73	0.51
1:A:843:LEU:HD21	1:A:847:LEU:HG	1.91	0.51
1:B:719:ASN:ND2	1:B:826:GLU:OE2	2.39	0.51
1:B:905:VAL:HB	1:B:906:PRO:HD3	1.91	0.51
1:C:34:GLN:HB3	1:C:333:VAL:CG2	2.19	0.51
1:C:303:ALA:O	1:C:304:ALA:C	2.54	0.51
1:C:390:ILE:HA	1:C:394:THR:HG21	1.92	0.51
1:A:180:SER:O	1:A:181:GLN:CB	2.57	0.51
1:A:336:SER:O	1:A:339:GLU:N	2.44	0.51
1:A:372:VAL:O	1:A:374:VAL:N	2.44	0.51
1:A:443:VAL:CG2	1:A:486:LEU:HD11	2.38	0.51
1:A:552:MET:SD	1:A:909:VAL:HG11	2.50	0.51
1:A:574:THR:HA	1:A:664:PHE:O	2.10	0.51
1:A:702:LEU:C	1:A:702:LEU:HD12	2.22	0.51
1:B:130:GLU:C	1:B:131:LYS:O	2.53	0.51
1:B:281:PHE:O	1:B:282:ASN:HB2	2.09	0.51
1:B:332:PHE:O	1:B:336:SER:OG	2.24	0.51
1:B:540:ARG:O	1:B:541:TYR:CD1	2.64	0.51
1:C:517:ASN:C	1:C:517:ASN:ND2	2.68	0.51
1:C:895:TRP:HA	1:C:895:TRP:CE3	2.45	0.51
1:A:76:MET:HE3	1:A:95:GLU:HA	1.91	0.51
1:A:956:GLU:C	1:A:958:LYS:H	2.18	0.51
1:A:957:GLY:C	1:A:959:GLY:H	2.10	0.51
1:B:13:TRP:N	1:B:488:LEU:HD23	2.25	0.51
1:B:335:ILE:CG2	1:B:336:SER:N	2.74	0.51
1:B:605:ASN:CG	1:B:647:ILE:HD12	2.36	0.51
1:B:783:PRO:O	1:B:786:ILE:HB	2.10	0.51
1:B:884:VAL:O	1:B:885:PHE:C	2.54	0.51
1:B:906:PRO:HA	1:B:909:VAL:HG23	1.93	0.51
1:C:119:PRO:C	1:C:121:GLU:N	2.69	0.51
1:C:465:ALA:O	1:C:469:GLN:HG2	2.09	0.51
1:C:574:THR:HG23	1:C:664:PHE:O	2.10	0.51
1:C:763:ILE:O	1:C:763:ILE:HG22	1.97	0.51
1:C:953:MET:HG3	1:C:963:ALA:HB1	1.92	0.51
1:A:110:LYS:CB	1:A:110:LYS:HD2	2.40	0.51
1:A:178:PHE:O	2:A:2002:DM2:O14	2.28	0.51
1:A:193:LEU:CD1	1:A:265:VAL:CG1	2.87	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:323:ILE:O	1:A:325:TYR:CE1	2.64	0.51
1:A:330:THR:HG22	1:A:331:PRO:CD	2.40	0.51
1:A:352:PHE:HD2	1:A:353:LEU:HD23	1.76	0.51
1:A:478:MET:SD	1:A:478:MET:C	2.94	0.51
1:A:617:PHE:CB	2:A:2002:DM2:H1	2.31	0.51
1:A:945:ILE:O	1:A:947:GLU:N	2.44	0.51
1:B:200:PRO:CG	1:B:749:THR:HG22	2.39	0.51
1:B:709:HIS:N	1:B:710:PRO:CD	2.74	0.51
1:B:842:GLU:O	1:B:845:GLU:HB3	2.11	0.51
1:C:255:GLN:OE1	1:C:255:GLN:HA	2.03	0.51
1:C:427:PRO:O	1:C:430:ALA:HB3	2.10	0.51
1:C:860:THR:HG22	1:C:861:GLY:H	1.75	0.51
1:C:974:PRO:O	1:C:975:ILE:C	2.54	0.51
1:A:35:TYR:CD2	1:A:671:ILE:HD13	2.46	0.51
1:A:167:SER:CB	1:A:175:VAL:HG13	2.41	0.51
1:A:189:ASN:O	1:A:191:ASN:N	2.44	0.51
1:A:690:LEU:CD1	1:A:854:GLY:C	2.84	0.51
1:A:893:GLU:HA	1:C:10:ILE:HB	1.91	0.51
1:B:71:GLY:O	1:B:72:ILE:HD13	2.09	0.51
1:B:225:VAL:HG13	1:C:777:ALA:HB1	1.91	0.51
1:B:316:PHE:CZ	1:C:687:GLN:HG3	2.46	0.51
1:B:372:VAL:CG1	1:B:373:PRO:HD2	2.41	0.51
1:B:873:ALA:HB3	1:B:874:PRO:CD	2.41	0.51
1:B:938:SER:CB	1:B:1014:ALA:HB1	2.41	0.51
1:C:493:CYS:O	1:C:497:LEU:HB3	2.11	0.51
1:A:427:PRO:O	1:A:428:LYS:C	2.54	0.51
1:A:911:GLY:CA	1:A:1013:THR:HG23	2.41	0.51
1:A:945:ILE:CG1	1:A:971:ARG:HG3	2.41	0.51
1:A:1028:VAL:HG12	1:A:1032:ARG:NH2	2.25	0.51
1:B:40:PRO:HG3	1:B:76:MET:HE1	1.93	0.51
1:B:72:ILE:O	1:B:72:ILE:HG12	2.11	0.51
1:B:228:GLN:CG	1:C:781:MET:HE3	2.40	0.51
1:B:515:TRP:CD1	1:B:515:TRP:H	2.28	0.51
1:B:560:PRO:O	1:B:923:ASN:CB	2.51	0.51
1:B:572:PHE:O	1:B:629:VAL:N	2.43	0.51
1:B:654:ALA:O	1:B:656:SER:HB2	2.11	0.51
1:B:682:PHE:CE1	1:B:857:TYR:CD1	2.99	0.51
1:B:776:GLU:OE1	1:B:778:LYS:HG2	2.11	0.51
1:B:937:LEU:HD22	1:B:1011:MET:HE2	1.91	0.51
1:B:950:LYS:HE3	1:B:954:ASP:OD2	2.10	0.51
1:C:3:ASN:HD22	1:C:432:ARG:HH11	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:519:MET:HG3	1:C:520:PHE:N	2.26	0.51
1:C:693:GLU:O	1:C:694:LYS:C	2.53	0.51
1:C:941:ASN:HD22	1:C:942:ALA:H	1.59	0.51
1:A:515:TRP:NE1	1:A:516:PHE:CD1	2.78	0.51
1:A:600:THR:CG2	1:A:601:LYS:N	2.73	0.51
1:A:888:LEU:HD21	1:A:901:VAL:CB	2.37	0.51
1:B:157:TYR:O	1:B:158:VAL:C	2.54	0.51
1:B:187:TRP:HA	1:B:774:MET:O	2.10	0.51
1:B:235:ILE:CD1	1:C:726:GLN:NE2	2.45	0.51
1:B:354:VAL:HG12	1:B:354:VAL:O	2.11	0.51
1:B:367:ILE:HG12	1:B:492:LEU:CD1	2.41	0.51
1:B:422:GLU:O	1:B:423:GLU:CB	2.57	0.51
1:C:145:THR:CG2	1:C:146:ASP:N	2.74	0.51
1:C:837:THR:O	1:C:841:MET:HG3	2.11	0.51
1:C:882:ILE:O	1:C:886:LEU:HD12	2.11	0.51
1:A:42:ALA:HB3	1:A:132:SER:CB	2.31	0.51
1:A:402:ILE:HG22	1:A:403:GLY:H	1.75	0.51
1:A:443:VAL:HG23	1:A:486:LEU:CD1	2.39	0.51
1:A:454:VAL:O	1:A:456:MET:N	2.44	0.51
1:A:886:LEU:HD21	1:C:17:ILE:CG2	2.41	0.51
1:A:1021:PHE:O	1:A:1024:VAL:N	2.44	0.51
1:B:122:VAL:O	1:B:123:GLN:C	2.54	0.51
1:B:706:ALA:HA	1:B:713:LEU:HD12	1.93	0.51
1:B:927:PHE:C	1:B:929:VAL:N	2.67	0.51
1:B:942:ALA:HA	1:B:1022:VAL:HG11	1.92	0.51
1:B:1020:PHE:O	1:B:1024:VAL:HG23	2.11	0.51
1:C:177:LEU:HD22	1:C:178:PHE:H	1.75	0.51
1:C:934:THR:O	1:C:935:ILE:C	2.53	0.51
1:A:11:PHE:C	1:A:13:TRP:N	2.68	0.50
1:A:249:ILE:HD12	1:A:262:LEU:HD22	1.91	0.50
1:A:298:ASN:ND2	1:A:301:ASP:H	2.09	0.50
1:A:753:ALA:HB3	1:A:754:TRP:HD1	1.72	0.50
1:B:972:LEU:HD12	1:B:976:LEU:HD21	1.88	0.50
1:C:74:ASN:HD21	1:C:98:THR:HG23	1.70	0.50
1:C:118:LEU:CD1	1:C:118:LEU:H	2.14	0.50
1:C:488:LEU:C	1:C:490:PRO:HD2	2.36	0.50
1:C:576:VAL:HG12	1:C:663:VAL:CG2	2.41	0.50
1:C:919:ARG:NH2	1:C:991:ILE:HD11	2.26	0.50
1:A:182:TYR:CB	1:A:270:LEU:CD1	2.86	0.50
1:A:575:MET:N	1:A:664:PHE:O	2.33	0.50
1:A:1007:VAL:O	1:A:1009:GLY:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:293:LEU:HD11	1:B:297:ALA:O	2.11	0.50
1:B:359:LEU:O	1:B:361:ASN:N	2.44	0.50
1:B:912:ALA:O	1:B:913:LEU:C	2.54	0.50
1:B:920:GLY:O	1:B:921:LEU:O	2.28	0.50
1:C:470:PHE:O	1:C:471:SER:O	2.27	0.50
1:C:768:VAL:HG13	1:C:769:LYS:H	1.76	0.50
1:C:886:LEU:O	1:C:890:ALA:HB2	2.12	0.50
1:C:987:MET:SD	1:C:1008:MET:HE1	2.51	0.50
1:C:1026:PHE:O	1:C:1029:VAL:CB	2.56	0.50
1:A:11:PHE:HA	1:A:14:VAL:HG23	1.93	0.50
1:A:89:GLN:O	1:A:90:ILE:CG1	2.59	0.50
1:A:192:GLU:OE2	1:A:264:ASP:O	2.30	0.50
1:A:355:MET:HB3	1:A:365:THR:HG22	1.93	0.50
1:A:553:ALA:O	1:A:557:VAL:HG22	2.11	0.50
1:A:629:VAL:CG1	1:A:630:SER:N	2.72	0.50
1:A:781:MET:HE2	1:C:225:VAL:HG22	1.93	0.50
1:A:886:LEU:O	1:C:14:VAL:HG11	2.10	0.50
1:B:552:MET:HA	1:B:910:ILE:HG12	1.93	0.50
1:B:1024:VAL:C	1:B:1028:VAL:HG23	2.37	0.50
1:C:409:ALA:O	1:C:413:VAL:N	2.40	0.50
1:C:964:THR:O	1:C:968:VAL:HG23	2.12	0.50
1:A:355:MET:SD	1:A:410:ILE:HG21	2.51	0.50
1:A:596:HIS:O	1:A:599:LEU:N	2.43	0.50
1:B:34:GLN:HG2	1:B:35:TYR:CD2	2.46	0.50
1:B:183:ALA:CB	1:B:272:GLY:O	2.57	0.50
1:B:328:ASP:OD2	1:B:330:THR:HB	2.11	0.50
1:B:559:LEU:HD21	1:B:923:ASN:HB2	1.86	0.50
1:B:921:LEU:HD21	1:B:1002:ALA:HA	1.92	0.50
1:C:12:ALA:HB1	1:C:487:ILE:HG22	1.94	0.50
1:C:459:PHE:CE1	1:C:467:TYR:CD1	3.00	0.50
1:C:574:THR:CG2	1:C:664:PHE:O	2.58	0.50
1:C:740:GLY:O	1:C:793:ALA:HB1	2.12	0.50
1:C:804:PHE:CD2	1:C:804:PHE:N	2.78	0.50
1:A:100:ALA:O	1:A:101:ASP:C	2.53	0.50
1:A:375:VAL:HG21	1:A:484:VAL:HG13	1.92	0.50
1:A:694:LYS:O	1:A:696:THR:N	2.45	0.50
1:B:372:VAL:HB	1:B:373:PRO:CD	2.33	0.50
1:B:410:ILE:CG2	1:B:978:THR:CG2	2.80	0.50
1:B:561:SER:OG	1:B:838:GLY:HA3	2.11	0.50
1:B:578:LEU:CD1	1:B:578:LEU:H	2.24	0.50
1:B:973:ARG:N	1:B:974:PRO:HD2	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:161:ASN:ND2	1:C:162:MET:HG2	2.27	0.50
1:C:685:ILE:HG22	1:C:685:ILE:O	2.06	0.50
1:C:865:GLN:HA	1:C:868:LEU:HD12	1.93	0.50
1:A:387:GLY:O	1:A:388:PHE:C	2.50	0.50
1:A:545:TYR:CE1	1:A:907:LEU:HD21	2.47	0.50
1:A:644:VAL:O	1:A:646:ALA:N	2.44	0.50
1:A:695:LEU:O	1:A:699:ARG:HB2	2.12	0.50
1:A:843:LEU:C	1:A:843:LEU:CD2	2.75	0.50
1:A:944:LEU:O	1:A:947:GLU:HB3	2.12	0.50
1:B:91:THR:C	1:B:92:LEU:HD22	2.36	0.50
1:B:167:SER:CA	1:B:175:VAL:HG21	2.41	0.50
1:B:575:MET:HB3	1:B:626:ILE:HG22	1.93	0.50
1:B:775:SER:HB2	1:B:789:TRP:CZ2	2.46	0.50
1:C:103:ALA:O	1:C:104:GLN:C	2.54	0.50
1:C:188:MET:HE1	1:C:200:PRO:HB3	1.94	0.50
1:A:193:LEU:CA	1:A:265:VAL:HG22	2.40	0.50
1:A:223:PRO:HD3	1:B:275:TYR:HB2	1.94	0.50
1:A:535:LEU:CD2	1:A:1027:VAL:HG21	2.40	0.50
1:A:643:LYS:HZ2	1:A:995:ALA:HB2	1.77	0.50
1:A:773:VAL:O	1:A:773:VAL:CG1	2.60	0.50
1:B:416:VAL:CG2	1:B:434:SER:HB2	2.39	0.50
1:B:724:THR:O	1:B:811:TYR:HA	2.11	0.50
1:B:982:PHE:CE2	1:B:1007:VAL:O	2.64	0.50
1:C:145:THR:CG2	1:C:146:ASP:OD1	2.56	0.50
1:C:975:ILE:CG2	1:C:976:LEU:N	2.72	0.50
1:A:38:ILE:HD11	1:A:671:ILE:HG21	1.94	0.50
1:A:102:ILE:O	1:A:106:GLN:CG	2.60	0.50
1:A:182:TYR:CG	1:A:270:LEU:HD12	2.46	0.50
1:A:493:CYS:O	1:A:497:LEU:CB	2.59	0.50
1:A:934:THR:C	1:A:936:GLY:H	2.20	0.50
1:A:986:VAL:CG1	1:A:1004:GLY:HA2	2.41	0.50
1:B:340:VAL:HG12	1:B:395:MET:HB3	1.87	0.50
1:B:413:VAL:O	1:B:417:GLU:N	2.45	0.50
1:B:427:PRO:O	1:B:429:GLU:N	2.42	0.50
1:B:555:LEU:O	1:B:559:LEU:HB2	2.12	0.50
1:C:12:ALA:CB	1:C:487:ILE:HG22	2.42	0.50
1:C:102:ILE:N	1:C:102:ILE:HD13	2.27	0.50
1:C:166:ILE:HG21	1:C:175:VAL:CB	2.40	0.50
1:C:668:LEU:H	1:C:668:LEU:CD2	2.24	0.50
1:C:785:ASP:O	1:C:787:GLY:N	2.43	0.50
1:C:855:VAL:CG1	1:C:856:GLY:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:895:TRP:HA	1:C:895:TRP:HE3	1.77	0.50
1:A:45:ILE:HB	1:A:90:ILE:HB	1.93	0.50
1:A:221:GLY:N	1:B:622:GLN:NE2	2.57	0.50
1:A:280:GLU:CB	1:A:284:GLN:O	2.60	0.50
1:A:454:VAL:HB	1:A:455:PRO:HD2	1.94	0.50
1:A:781:MET:HG3	1:C:225:VAL:CG1	2.41	0.50
1:A:801:PHE:CD1	1:A:805:SER:CB	2.89	0.50
1:A:858:ASP:OD1	1:C:312:LYS:CE	2.59	0.50
1:A:903:LEU:HB2	1:A:1025:PHE:CE1	2.47	0.50
1:A:944:LEU:O	1:A:945:ILE:O	2.30	0.50
1:B:235:ILE:HG22	1:C:728:LYS:HE3	1.92	0.50
1:B:714:THR:HG21	1:B:833:PRO:HG3	1.94	0.50
1:B:967:ALA:O	1:B:968:VAL:C	2.54	0.50
1:C:178:PHE:HE2	1:C:615:PHE:CD1	2.30	0.50
1:C:340:VAL:O	1:C:343:THR:N	2.44	0.50
1:C:648:THR:CG2	1:C:649:MET:N	2.75	0.50
1:A:126:GLY:CA	1:B:116:PRO:HB3	2.42	0.49
1:A:513:PHE:C	1:A:515:TRP:N	2.70	0.49
1:A:970:MET:HG2	1:A:970:MET:O	2.12	0.49
1:B:66:GLU:OE2	1:B:821:GLY:CA	2.60	0.49
1:B:602:GLU:CD	1:B:650:ARG:HH11	2.19	0.49
1:B:634:TRP:CE3	1:B:637:ARG:NH1	2.80	0.49
1:B:908:GLY:O	1:B:910:ILE:N	2.44	0.49
1:B:927:PHE:CZ	1:B:931:LEU:CD2	2.95	0.49
1:C:168:ARG:O	1:C:169:THR:CA	2.59	0.49
1:C:196:PHE:O	1:C:197:GLN:HB2	2.12	0.49
1:C:372:VAL:O	1:C:373:PRO:C	2.55	0.49
1:C:376:LEU:C	1:C:378:GLY:N	2.70	0.49
1:C:487:ILE:O	1:C:488:LEU:O	2.30	0.49
1:C:513:PHE:HD2	1:C:517:ASN:HB2	1.77	0.49
1:C:790:TYR:HA	1:C:799:VAL:O	2.12	0.49
1:C:855:VAL:HG12	1:C:856:GLY:N	2.27	0.49
1:C:894:SER:C	1:C:896:SER:H	2.20	0.49
1:A:590:VAL:O	1:A:591:LEU:C	2.53	0.49
1:B:456:MET:HE2	1:B:932:LEU:CD1	2.41	0.49
1:B:787:GLY:O	1:B:789:TRP:N	2.45	0.49
1:C:30:LEU:HD23	1:C:384:ALA:CB	2.33	0.49
1:C:144:ASN:HB2	1:C:321:LEU:CD1	2.42	0.49
1:C:713:LEU:HD12	1:C:832:ALA:HB3	1.93	0.49
1:C:912:ALA:H	1:C:1010:GLY:HA2	1.77	0.49
1:C:930:GLY:HA2	1:C:1007:VAL:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:363:ARG:HD3	1:A:496:MET:O	2.12	0.49
1:A:593:GLU:C	1:A:595:THR:H	2.19	0.49
1:A:911:GLY:HA3	1:A:1013:THR:CG2	2.42	0.49
1:A:990:VAL:CG1	1:A:1003:VAL:HG12	2.42	0.49
1:B:101:ASP:O	1:B:105:VAL:CG2	2.40	0.49
1:B:296:GLY:O	1:B:297:ALA:C	2.52	0.49
1:B:554:TYR:HD1	1:B:558:ARG:HD2	1.77	0.49
1:B:690:LEU:HB2	1:B:694:LYS:HB2	1.94	0.49
1:B:791:VAL:O	1:B:799:VAL:HG23	2.11	0.49
1:B:1016:VAL:C	1:B:1018:ALA:N	2.71	0.49
1:B:1018:ALA:C	1:B:1020:PHE:N	2.67	0.49
1:C:169:THR:HG22	1:C:172:VAL:HB	1.93	0.49
1:C:247:GLY:HA3	1:C:268:ILE:HD12	1.94	0.49
1:C:607:GLU:HB2	1:C:632:LYS:HG2	1.94	0.49
1:C:673:GLU:C	1:C:675:GLY:N	2.68	0.49
1:C:790:TYR:C	1:C:791:VAL:CG2	2.79	0.49
1:C:899:PHE:HD1	1:C:899:PHE:H	1.60	0.49
1:C:983:ILE:HG12	1:C:1011:MET:CB	2.40	0.49
1:A:171:GLY:HA2	1:A:294:ALA:HB2	1.95	0.49
1:A:584:GLN:N	1:A:622:GLN:HB2	2.24	0.49
1:A:683:GLU:OE1	1:A:826:GLU:HB2	2.11	0.49
1:A:1004:GLY:O	1:A:1005:THR:C	2.55	0.49
1:B:104:GLN:O	1:B:107:VAL:HG23	2.12	0.49
1:B:146:ASP:O	1:B:148:THR:N	2.45	0.49
1:B:750:LEU:O	1:B:750:LEU:HD22	2.10	0.49
1:C:393:LEU:HD13	1:C:466:ILE:CG2	2.24	0.49
1:C:819:TYR:O	1:C:820:ASN:HB2	2.11	0.49
1:A:143:ILE:HG21	1:A:281:PHE:HD2	1.76	0.49
1:A:594:VAL:HG22	1:A:655:PHE:HE2	1.78	0.49
1:A:713:LEU:HD13	1:A:833:PRO:HB2	1.95	0.49
1:B:20:MET:HE3	1:B:374:VAL:N	2.27	0.49
1:B:65:ILE:CG2	1:B:90:ILE:CD1	2.72	0.49
1:B:226:LYS:O	1:C:585:GLU:OE1	2.31	0.49
1:B:347:ALA:HB3	1:B:402:ILE:HG21	1.95	0.49
1:B:371:ALA:O	1:B:375:VAL:HG23	2.11	0.49
1:B:639:GLY:C	1:B:641:GLU:OE1	2.56	0.49
1:B:1024:VAL:HG12	1:B:1028:VAL:CG2	2.41	0.49
1:C:65:ILE:CG2	1:C:65:ILE:HB	2.18	0.49
1:C:100:ALA:HA	1:C:103:ALA:HB3	1.95	0.49
1:C:333:VAL:O	1:C:333:VAL:HG13	2.13	0.49
1:C:688:ALA:C	1:C:690:LEU:N	2.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:46:SER:O	1:A:127:VAL:CG1	2.58	0.49
1:A:277:ILE:O	1:A:277:ILE:HG22	2.07	0.49
1:A:370:ILE:O	1:A:370:ILE:CG2	2.53	0.49
1:A:394:THR:C	1:A:395:MET:HE2	2.37	0.49
1:A:394:THR:CG2	1:A:395:MET:CE	2.80	0.49
1:A:815:ARG:NH1	1:A:815:ARG:HG2	2.27	0.49
1:B:69:MET:HE1	1:B:107:VAL:HG12	1.93	0.49
1:B:75:LEU:HD12	1:B:76:MET:N	2.26	0.49
1:B:122:VAL:O	1:B:125:GLN:HB3	2.12	0.49
1:B:293:LEU:CD2	1:B:294:ALA:N	2.72	0.49
1:B:414:GLU:CD	1:B:974:PRO:HD3	2.37	0.49
1:B:566:ASP:O	1:B:567:GLU:C	2.54	0.49
1:C:65:ILE:HG21	1:C:90:ILE:CD1	2.42	0.49
1:C:211:ASN:OD1	1:C:246:PHE:CZ	2.66	0.49
1:C:236:ALA:O	1:C:237:GLN:C	2.56	0.49
1:C:265:VAL:O	1:C:266:ALA:HB2	2.13	0.49
1:C:279:ALA:HB1	1:C:612:VAL:CG2	2.42	0.49
1:C:299:ALA:O	1:C:300:LEU:C	2.54	0.49
1:C:310:LEU:HB3	1:C:323:ILE:HD13	1.95	0.49
1:C:353:LEU:O	1:C:356:TYR:CB	2.59	0.49
1:C:355:MET:SD	1:C:410:ILE:HG12	2.53	0.49
1:C:457:ALA:HB2	1:C:471:SER:CB	2.43	0.49
1:C:748:THR:O	1:C:748:THR:HG22	2.11	0.49
1:C:961:ILE:O	1:C:965:LEU:HB2	2.13	0.49
1:C:1016:VAL:O	1:C:1018:ALA:N	2.36	0.49
1:A:35:TYR:HB3	1:A:36:PRO:CD	2.42	0.49
1:A:101:ASP:O	1:A:102:ILE:C	2.52	0.49
1:A:486:LEU:C	1:A:487:ILE:HG13	2.37	0.49
1:A:815:ARG:HH11	1:A:815:ARG:CG	2.24	0.49
1:A:835:LYS:HB3	1:A:839:GLU:OE1	2.11	0.49
1:A:938:SER:O	1:A:941:ASN:HB2	2.13	0.49
1:A:952:LEU:HB3	1:A:958:LYS:HB2	1.94	0.49
1:A:1015:THR:CG2	1:A:1016:VAL:N	2.69	0.49
1:B:3:ASN:HA	1:B:6:ILE:CD1	2.42	0.49
1:B:62:THR:HG23	1:B:88:VAL:CG1	2.42	0.49
1:B:413:VAL:HG12	1:B:414:GLU:H	1.77	0.49
1:B:820:ASN:C	1:B:822:LEU:H	2.21	0.49
1:B:912:ALA:O	1:B:915:ALA:N	2.45	0.49
1:B:973:ARG:H	1:B:973:ARG:CD	2.24	0.49
1:B:983:ILE:HD13	1:B:1008:MET:CG	2.41	0.49
1:C:50:PRO:HG2	1:C:758:TYR:CE2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:83:ASP:C	1:C:85:THR:H	2.21	0.49
1:C:254:ASN:HB2	1:C:258:SER:O	2.13	0.49
1:C:1018:ALA:O	1:C:1021:PHE:N	2.46	0.49
1:A:30:LEU:HD23	1:A:384:ALA:CB	2.36	0.49
1:A:218:GLN:HB3	1:A:231:ASN:HD21	1.77	0.49
1:A:860:THR:HG22	1:A:861:GLY:CA	2.42	0.49
1:A:873:ALA:CB	1:A:874:PRO:CD	2.83	0.49
1:B:835:LYS:HB2	1:B:839:GLU:OE2	2.12	0.49
1:B:943:ILE:C	1:B:945:ILE:N	2.71	0.49
1:B:953:MET:O	1:B:953:MET:CG	2.57	0.49
1:C:591:LEU:O	1:C:594:VAL:N	2.45	0.49
1:C:717:ARG:NH2	1:C:828:LEU:HD23	2.27	0.49
1:C:773:VAL:O	1:C:774:MET:CB	2.57	0.49
1:C:845:GLU:HG2	1:C:859:TRP:CH2	2.41	0.49
1:A:84:SER:O	1:A:85:THR:HG22	2.13	0.49
1:A:307:ARG:NH1	1:A:325:TYR:CD2	2.81	0.49
1:A:489:THR:O	1:A:490:PRO:C	2.54	0.49
1:A:513:PHE:HA	1:A:516:PHE:CD2	2.45	0.49
1:A:600:THR:HG22	1:A:601:LYS:H	1.75	0.49
1:A:621:GLY:C	1:A:623:ASN:N	2.71	0.49
1:A:635:ALA:C	1:A:637:ARG:N	2.67	0.49
1:A:692:HIS:CE1	1:A:813:SER:HB2	2.48	0.49
1:A:723:ASP:HA	1:A:812:GLY:O	2.13	0.49
1:A:822:LEU:C	1:A:823:PRO:CA	2.66	0.49
1:A:843:LEU:HA	1:A:846:GLN:CD	2.36	0.49
1:A:973:ARG:O	1:A:974:PRO:C	2.55	0.49
1:A:982:PHE:O	1:A:985:GLY:N	2.45	0.49
1:B:14:VAL:HA	1:B:17:ILE:CD1	2.42	0.49
1:B:199:THR:O	1:B:201:VAL:N	2.46	0.49
1:B:454:VAL:HG12	1:B:455:PRO:N	2.26	0.49
1:B:665:ALA:O	1:B:666:PHE:CG	2.65	0.49
1:C:119:PRO:HG2	1:C:122:VAL:HG21	1.95	0.49
1:C:386:PHE:N	1:C:386:PHE:CD1	2.80	0.49
1:A:208:LYS:HE3	1:A:759:VAL:CG1	2.32	0.49
1:A:600:THR:C	1:A:602:GLU:H	2.21	0.49
1:A:961:ILE:HG13	1:A:1031:ARG:NH1	2.28	0.49
1:A:986:VAL:HG12	1:A:991:ILE:HD13	1.94	0.49
1:B:21:LEU:HD11	1:C:883:VAL:HG23	1.94	0.49
1:B:427:PRO:C	1:B:429:GLU:N	2.69	0.49
1:B:537:SER:HB3	1:B:540:ARG:HB2	1.95	0.49
1:C:144:ASN:HD21	1:C:148:THR:HG1	1.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:220:GLY:HA3	1:C:231:ASN:HA	1.95	0.49
1:C:345:VAL:CG2	1:C:346:GLU:N	2.75	0.49
1:C:350:LEU:CD1	1:C:984:LEU:CD1	2.91	0.49
1:C:455:PRO:O	1:C:876:LEU:CD2	2.43	0.49
1:C:536:ARG:HH21	1:C:961:ILE:CD1	2.26	0.49
1:C:578:LEU:HG	1:C:661:ALA:HB3	1.94	0.49
1:C:593:GLU:O	1:C:596:HIS:N	2.43	0.49
1:C:619:GLY:C	1:C:620:ARG:O	2.53	0.49
1:A:54:ALA:O	1:A:55:LYS:C	2.56	0.48
1:A:277:ILE:HD12	1:A:277:ILE:HA	1.54	0.48
1:A:278:ILE:HG21	1:A:588:GLN:HE21	1.73	0.48
1:A:445:ILE:HA	1:A:448:VAL:HG12	1.93	0.48
1:B:65:ILE:O	1:B:69:MET:HG2	2.13	0.48
1:B:271:GLY:HA3	1:B:275:TYR:OH	2.13	0.48
1:B:552:MET:H	1:B:910:ILE:HG13	1.78	0.48
1:B:634:TRP:CE3	1:B:634:TRP:HA	2.47	0.48
1:B:790:TYR:CD1	1:B:800:PRO:CA	2.92	0.48
1:B:927:PHE:O	1:B:928:GLN:C	2.56	0.48
1:B:1023:PRO:HA	1:B:1026:PHE:CD2	2.48	0.48
1:C:51:GLY:O	1:C:52:ALA:C	2.56	0.48
1:C:83:ASP:C	1:C:85:THR:N	2.71	0.48
1:C:154:ILE:O	1:C:157:TYR:N	2.46	0.48
1:C:327:TYR:HB2	1:C:628:PHE:HB3	1.93	0.48
1:C:332:PHE:CD1	1:C:569:GLN:HA	2.48	0.48
1:C:588:GLN:O	1:C:591:LEU:N	2.46	0.48
1:C:721:LEU:HD12	1:C:815:ARG:HB3	1.94	0.48
1:C:824:SER:O	1:C:825:MET:HB2	2.11	0.48
1:A:18:ILE:O	1:A:21:LEU:N	2.47	0.48
1:A:244:GLU:CG	1:A:248:LYS:HZ1	2.26	0.48
1:A:531:VAL:HA	1:A:534:ILE:CG1	2.42	0.48
1:A:589:LYS:HA	1:A:592:ASN:ND2	2.28	0.48
1:A:1024:VAL:CG1	1:A:1028:VAL:HG21	2.43	0.48
1:B:556:PHE:N	1:B:913:LEU:HD22	2.28	0.48
1:B:638:PRO:O	1:B:643:LYS:NZ	2.29	0.48
1:B:682:PHE:HE2	1:B:684:LEU:HD12	1.79	0.48
1:B:891:LEU:HD12	1:B:892:TYR:CE2	2.47	0.48
1:B:949:ALA:CB	1:B:1030:ARG:NH2	2.64	0.48
1:C:164:ASP:CG	1:C:164:ASP:CA	2.77	0.48
1:C:192:GLU:O	1:C:195:LYS:N	2.46	0.48
1:C:199:THR:OG1	1:C:201:VAL:CG2	2.61	0.48
1:C:531:VAL:O	1:C:533:GLY:O	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:686:ASP:OD1	1:C:690:LEU:CB	2.50	0.48
1:C:764:ASP:HB2	1:C:769:LYS:HZ3	1.78	0.48
1:C:775:SER:O	1:C:780:ARG:NE	2.44	0.48
1:C:907:LEU:HD13	1:C:1018:ALA:HA	1.95	0.48
1:A:680:PHE:HB2	1:A:859:TRP:CZ3	2.47	0.48
1:A:915:ALA:O	1:A:919:ARG:O	2.31	0.48
1:A:987:MET:HE2	1:A:991:ILE:HG21	1.95	0.48
1:B:873:ALA:C	1:B:875:SER:N	2.71	0.48
1:B:945:ILE:O	1:B:946:VAL:C	2.56	0.48
1:B:971:ARG:HA	1:B:974:PRO:HG2	1.95	0.48
1:B:972:LEU:HD11	1:B:976:LEU:HD21	1.88	0.48
1:C:13:TRP:HD1	1:C:488:LEU:HD11	1.75	0.48
1:C:247:GLY:HA3	1:C:268:ILE:CD1	2.42	0.48
1:C:587:THR:O	1:C:588:GLN:C	2.56	0.48
1:C:857:TYR:O	1:C:858:ASP:HB2	2.13	0.48
1:C:860:THR:O	1:C:861:GLY:O	2.32	0.48
1:C:939:ALA:O	1:C:943:ILE:CD1	2.60	0.48
1:C:1017:LEU:O	1:C:1017:LEU:HD23	2.12	0.48
1:A:192:GLU:HG2	1:A:264:ASP:O	2.13	0.48
1:A:488:LEU:O	1:A:488:LEU:HG	2.12	0.48
1:A:540:ARG:O	1:A:543:VAL:HG13	2.06	0.48
1:A:648:THR:O	1:A:649:MET:C	2.57	0.48
1:A:989:LEU:O	1:A:990:VAL:C	2.57	0.48
1:B:335:ILE:CG2	1:B:995:ALA:CB	2.91	0.48
1:B:545:TYR:C	1:B:547:ILE:N	2.70	0.48
1:B:545:TYR:OH	1:B:906:PRO:HG2	2.13	0.48
1:B:916:ALA:C	1:B:918:PHE:H	2.21	0.48
1:B:930:GLY:HA2	1:B:933:THR:OG1	2.13	0.48
1:B:964:THR:O	1:B:968:VAL:HG23	2.13	0.48
1:B:976:LEU:O	1:B:980:LEU:HD12	2.14	0.48
1:C:67:GLN:C	1:C:69:MET:H	2.21	0.48
1:C:250:LEU:C	1:C:250:LEU:HD12	2.38	0.48
1:C:445:ILE:CD1	1:C:943:ILE:HG21	2.43	0.48
1:A:28:LEU:N	1:A:28:LEU:CD1	2.77	0.48
1:A:159:ALA:HB2	1:A:177:LEU:CD1	2.37	0.48
1:A:717:ARG:HH12	1:A:828:LEU:HD12	1.78	0.48
1:A:803:ALA:HB3	1:A:804:PHE:HD2	1.78	0.48
1:A:838:GLY:HA2	1:A:841:MET:HG3	1.94	0.48
1:A:1024:VAL:HG12	1:A:1028:VAL:HG21	1.96	0.48
1:B:7:ASP:CG	1:B:8:ARG:HG2	2.38	0.48
1:B:65:ILE:HG12	1:B:111:LEU:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:91:THR:O	1:B:91:THR:HG22	2.12	0.48
1:B:166:ILE:O	1:B:168:ARG:N	2.46	0.48
1:B:530:SER:O	1:B:534:ILE:CG1	2.61	0.48
1:B:791:VAL:O	1:B:799:VAL:N	2.38	0.48
1:B:1022:VAL:O	1:B:1025:PHE:HB2	2.13	0.48
1:C:65:ILE:CD1	1:C:65:ILE:HG23	2.44	0.48
1:C:156:ASP:OD2	1:C:765:ARG:NH2	2.47	0.48
1:C:253:VAL:HA	1:C:259:ARG:HA	1.95	0.48
1:C:270:LEU:HD21	1:C:765:ARG:HH12	1.78	0.48
1:C:405:LEU:CD2	1:C:481:SER:CB	2.91	0.48
1:C:419:VAL:HG12	1:C:430:ALA:HB1	1.95	0.48
1:C:629:VAL:CG1	1:C:630:SER:N	2.73	0.48
1:A:75:LEU:O	1:A:76:MET:O	2.31	0.48
1:A:228:GLN:HG3	1:A:229:GLN:H	1.78	0.48
1:A:274:ASN:HD21	1:A:276:ASP:H	1.56	0.48
1:A:386:PHE:HB3	1:A:388:PHE:CE1	2.49	0.48
1:A:559:LEU:CD1	1:A:922:THR:HA	2.41	0.48
1:A:607:GLU:CG	1:A:632:LYS:HG3	2.44	0.48
1:A:818:ARG:HE	1:A:818:ARG:HB3	1.79	0.48
1:B:136:PHE:HE1	1:B:617:PHE:HE1	1.60	0.48
1:B:240:LEU:HD22	1:B:245:GLU:CB	2.08	0.48
1:B:262:LEU:HD22	1:B:266:ALA:HB2	1.95	0.48
1:B:526:HIS:N	1:B:526:HIS:ND1	2.61	0.48
1:B:612:VAL:HG11	1:B:615:PHE:HD2	1.79	0.48
1:C:649:MET:O	1:C:650:ARG:C	2.55	0.48
1:C:677:ALA:O	1:C:678:THR:O	2.30	0.48
1:A:72:ILE:HG22	1:A:73:ASP:CG	2.38	0.48
1:A:189:ASN:HD21	1:A:192:GLU:CB	2.26	0.48
1:A:218:GLN:O	1:A:219:LEU:HG	2.13	0.48
1:A:284:GLN:O	1:A:285:PRO:C	2.57	0.48
1:A:308:ALA:O	1:A:311:ALA:HB3	2.14	0.48
1:A:315:PRO:C	1:A:316:PHE:CD1	2.91	0.48
1:A:383:LEU:C	1:A:385:ALA:H	2.21	0.48
1:A:886:LEU:H	1:A:886:LEU:HD12	1.77	0.48
1:A:974:PRO:HA	1:A:977:MET:HE2	1.95	0.48
1:A:1000:GLN:O	1:A:1001:ASN:C	2.56	0.48
1:A:1018:ALA:O	1:A:1022:VAL:CG1	2.60	0.48
1:B:43:VAL:HG11	1:B:107:VAL:HG21	1.96	0.48
1:B:45:ILE:CD1	1:B:69:MET:HE2	2.44	0.48
1:B:158:VAL:CG1	1:B:162:MET:HE2	2.44	0.48
1:B:243:THR:O	1:B:244:GLU:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:367:ILE:HG22	1:B:489:THR:HG23	1.95	0.48
1:B:455:PRO:HG3	1:B:880:SER:OG	2.13	0.48
1:B:498:LYS:HB3	1:B:498:LYS:HZ2	1.78	0.48
1:B:597:TYR:CE2	1:B:651:ALA:HB2	2.48	0.48
1:B:743:ILE:HA	1:B:746:ILE:HD12	1.95	0.48
1:B:1022:VAL:O	1:B:1025:PHE:N	2.45	0.48
1:C:58:GLN:OE1	1:C:82:SER:HB3	2.10	0.48
1:C:193:LEU:HG	1:C:265:VAL:HG23	1.96	0.48
1:C:198:LEU:HA	1:C:792:ARG:HH21	1.78	0.48
1:C:754:TRP:CZ3	1:C:780:ARG:C	2.91	0.48
1:A:44:THR:N	1:A:91:THR:HG23	2.29	0.48
1:A:192:GLU:OE2	1:A:264:ASP:C	2.57	0.48
1:A:280:GLU:HA	1:A:286:ALA:CB	2.44	0.48
1:A:304:ALA:O	1:A:307:ARG:HB2	2.14	0.48
1:A:778:LYS:CG	1:A:779:TYR:HE1	2.26	0.48
1:A:890:ALA:O	1:C:11:PHE:CD1	2.67	0.48
1:A:897:ILE:N	1:A:898:PRO:HD2	2.28	0.48
1:B:235:ILE:HD11	1:C:726:GLN:HE22	1.60	0.48
1:B:554:TYR:O	1:B:556:PHE:N	2.47	0.48
1:B:591:LEU:CD1	1:B:611:ALA:HB1	2.43	0.48
1:B:683:GLU:OE2	1:B:826:GLU:HG2	2.01	0.48
1:B:888:LEU:O	1:B:889:ALA:C	2.57	0.48
1:B:944:LEU:O	1:B:971:ARG:CG	2.57	0.48
1:B:955:LYS:HB2	1:B:956:GLU:OE2	2.14	0.48
1:C:44:THR:CA	1:C:91:THR:HA	2.42	0.48
1:C:186:ILE:O	1:C:188:MET:N	2.47	0.48
1:C:589:LYS:O	1:C:590:VAL:C	2.56	0.48
1:C:790:TYR:O	1:C:791:VAL:CG2	2.58	0.48
1:C:1025:PHE:O	1:C:1028:VAL:HB	2.12	0.48
1:A:231:ASN:OD1	1:B:622:GLN:CG	2.62	0.48
1:A:355:MET:CE	1:A:355:MET:HA	2.43	0.48
1:A:420:MET:HE1	1:A:498:LYS:C	2.39	0.48
1:A:437:GLN:HB3	1:A:948:PHE:HE2	1.77	0.48
1:A:573:MET:HB2	1:A:666:PHE:CE2	2.46	0.48
1:A:668:LEU:HB3	1:A:669:PRO:HD2	1.96	0.48
1:A:986:VAL:HG12	1:A:991:ILE:HD11	1.93	0.48
1:B:191:ASN:O	1:B:193:LEU:N	2.47	0.48
1:B:638:PRO:HG2	1:B:639:GLY:H	1.78	0.48
1:B:910:ILE:HA	1:B:913:LEU:HD12	1.95	0.48
1:C:120:GLN:O	1:C:124:GLN:HB2	2.14	0.48
1:C:165:ALA:HA	1:C:168:ARG:CG	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:410:ILE:O	1:C:413:VAL:N	2.47	0.48
1:C:449:LEU:HA	1:C:452:VAL:CG2	2.43	0.48
1:C:570:GLY:N	1:C:634:TRP:CZ3	2.82	0.48
1:C:578:LEU:O	1:C:623:ASN:HB2	2.14	0.48
1:C:800:PRO:O	1:C:803:ALA:HB3	2.14	0.48
1:C:873:ALA:C	1:C:875:SER:N	2.69	0.48
1:A:106:GLN:O	1:A:110:LYS:CB	2.62	0.48
1:A:270:LEU:N	1:A:270:LEU:HD23	2.28	0.48
1:A:307:ARG:HH11	1:A:307:ARG:CG	2.27	0.48
1:A:375:VAL:HG11	1:A:405:LEU:CD1	2.42	0.48
1:A:758:TYR:C	1:A:758:TYR:HD1	2.19	0.48
1:A:945:ILE:HG22	1:A:946:VAL:N	2.29	0.48
1:B:1:MET:N	1:B:2:PRO:HD2	2.28	0.48
1:B:47:ALA:CB	1:B:88:VAL:HB	2.44	0.48
1:B:157:TYR:C	1:B:159:ALA:N	2.72	0.48
1:B:915:ALA:HB2	1:B:1009:GLY:CA	2.43	0.48
1:B:931:LEU:O	1:B:935:ILE:HD12	2.14	0.48
1:B:964:THR:CG2	1:B:965:LEU:CD2	2.76	0.48
1:C:204:ILE:HG12	1:C:773:VAL:HG11	1.95	0.48
1:C:220:GLY:O	1:C:221:GLY:C	2.57	0.48
1:C:231:ASN:ND2	1:C:232:ALA:CA	2.76	0.48
1:C:405:LEU:HD22	1:C:481:SER:HB2	1.95	0.48
1:A:171:GLY:CA	1:A:294:ALA:HB2	2.43	0.47
1:A:472:ILE:HG22	1:A:473:THR:N	2.28	0.47
1:A:728:LYS:NZ	1:C:235:ILE:HG22	2.29	0.47
1:A:748:THR:HG22	1:A:749:THR:N	2.27	0.47
1:A:775:SER:C	1:A:776:GLU:O	2.57	0.47
1:A:868:LEU:HD23	1:A:869:SER:H	1.78	0.47
1:B:25:LEU:C	1:B:27:ILE:N	2.72	0.47
1:B:104:GLN:CG	1:B:105:VAL:N	2.77	0.47
1:B:139:VAL:HG23	1:B:327:TYR:HB3	1.96	0.47
1:B:632:LYS:O	1:B:633:ASP:O	2.32	0.47
1:B:863:SER:O	1:B:866:GLU:N	2.47	0.47
1:C:5:PHE:HD2	1:C:12:ALA:N	2.11	0.47
1:C:379:THR:OG1	1:C:477:ALA:HA	2.14	0.47
1:C:398:MET:HE3	1:C:473:THR:HG23	1.95	0.47
1:C:728:LYS:O	1:C:729:ILE:CG1	2.62	0.47
1:C:1016:VAL:HG13	1:C:1020:PHE:HE1	1.78	0.47
1:A:210:GLN:CG	1:A:249:ILE:CG2	2.58	0.47
1:A:538:THR:C	1:A:540:ARG:H	2.22	0.47
1:A:682:PHE:O	1:A:827:ILE:HB	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:742:SER:O	1:A:742:SER:OG	2.32	0.47
1:A:780:ARG:HH21	1:C:223:PRO:HD2	1.77	0.47
1:A:818:ARG:CB	1:A:818:ARG:CD	2.83	0.47
1:A:832:ALA:HB3	1:A:835:LYS:HB2	1.96	0.47
1:B:10:ILE:CD1	1:C:893:GLU:O	2.55	0.47
1:B:333:VAL:C	1:B:335:ILE:N	2.71	0.47
1:B:484:VAL:O	1:B:488:LEU:N	2.44	0.47
1:B:531:VAL:O	1:B:534:ILE:HG12	2.14	0.47
1:B:682:PHE:HD1	1:B:859:TRP:CH2	2.32	0.47
1:B:696:THR:CG2	1:B:699:ARG:HH21	2.18	0.47
1:B:759:VAL:CG2	1:B:773:VAL:HB	2.43	0.47
1:B:863:SER:HA	1:B:866:GLU:HB2	1.96	0.47
1:B:1016:VAL:CG1	1:B:1017:LEU:N	2.77	0.47
1:C:197:GLN:C	1:C:798:MET:HE2	2.39	0.47
1:C:579:PRO:O	1:C:623:ASN:HB3	2.13	0.47
1:C:928:GLN:H	1:C:928:GLN:HE21	1.61	0.47
1:C:959:GLY:O	1:C:963:ALA:N	2.48	0.47
1:A:107:VAL:CG1	1:A:107:VAL:C	2.87	0.47
1:A:330:THR:O	1:A:331:PRO:C	2.57	0.47
1:A:598:TYR:HB3	1:A:606:VAL:HG21	1.96	0.47
1:A:905:VAL:O	1:A:909:VAL:HG23	2.14	0.47
1:B:26:ALA:O	1:B:30:LEU:HD22	2.13	0.47
1:B:45:ILE:HD12	1:B:90:ILE:HB	1.96	0.47
1:B:193:LEU:HD23	1:B:193:LEU:HA	1.73	0.47
1:B:554:TYR:O	1:B:557:VAL:N	2.47	0.47
1:B:568:ASP:OD2	1:B:634:TRP:HH2	1.97	0.47
1:B:597:TYR:CE1	1:B:654:ALA:CB	2.97	0.47
1:B:782:LEU:HB3	1:B:783:PRO:CD	2.45	0.47
1:B:852:PRO:HA	1:B:855:VAL:HB	1.95	0.47
1:B:894:SER:O	1:B:898:PRO:HD2	2.14	0.47
1:C:45:ILE:H	1:C:45:ILE:HG12	1.38	0.47
1:C:154:ILE:HG22	1:C:287:SER:HB3	1.95	0.47
1:C:195:LYS:C	1:C:197:GLN:H	2.22	0.47
1:C:728:LYS:O	1:C:807:SER:HB2	2.15	0.47
1:A:110:LYS:CD	1:A:110:LYS:HZ3	2.25	0.47
1:A:162:MET:O	1:A:165:ALA:N	2.47	0.47
1:A:167:SER:CB	1:A:175:VAL:HG21	2.38	0.47
1:A:190:PRO:HB3	1:A:789:TRP:CE3	2.49	0.47
1:A:461:GLY:O	1:A:462:SER:C	2.56	0.47
1:A:780:ARG:HE	1:C:221:GLY:HA3	1.79	0.47
1:A:932:LEU:O	1:A:935:ILE:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1021:PHE:O	1:A:1024:VAL:CB	2.51	0.47
1:B:380:PHE:HE1	1:B:398:MET:SD	2.35	0.47
1:B:615:PHE:CD1	1:B:615:PHE:C	2.89	0.47
1:B:717:ARG:CG	1:B:717:ARG:NH1	2.65	0.47
1:B:801:PHE:CD2	1:B:804:PHE:CZ	3.02	0.47
1:B:927:PHE:CE2	1:B:931:LEU:HG	2.49	0.47
1:B:1022:VAL:HB	1:B:1026:PHE:CZ	2.50	0.47
1:C:88:VAL:CG1	1:C:90:ILE:HG13	2.45	0.47
1:C:191:ASN:CA	1:C:194:ASN:ND2	2.77	0.47
1:C:705:GLU:CA	1:C:708:LYS:HG3	2.24	0.47
1:C:817:GLU:HB3	1:C:824:SER:CB	2.44	0.47
1:A:126:GLY:HA2	1:B:116:PRO:HB3	1.95	0.47
1:A:517:ASN:H	1:A:517:ASN:HD22	1.60	0.47
1:A:584:GLN:H	1:A:622:GLN:HB3	1.77	0.47
1:A:688:ALA:O	1:A:689:GLY:C	2.58	0.47
1:A:825:MET:O	1:A:826:GLU:HB2	2.14	0.47
1:A:877:TYR:O	1:A:878:ALA:C	2.57	0.47
1:B:169:THR:HG22	1:B:170:SER:H	1.79	0.47
1:B:462:SER:OG	1:B:865:GLN:CD	2.58	0.47
1:B:530:SER:O	1:B:534:ILE:HG12	2.13	0.47
1:C:151:GLN:C	1:C:151:GLN:OE1	2.58	0.47
1:C:199:THR:O	1:C:200:PRO:C	2.48	0.47
1:C:391:ASN:O	1:C:392:THR:C	2.58	0.47
1:C:449:LEU:CA	1:C:452:VAL:HG23	2.44	0.47
1:C:709:HIS:O	1:C:712:MET:HB3	2.15	0.47
1:C:972:LEU:HD23	1:C:973:ARG:N	2.29	0.47
1:A:69:MET:C	1:A:70:ASN:OD1	2.58	0.47
1:A:228:GLN:CD	1:B:781:MET:SD	2.97	0.47
1:A:489:THR:H	1:A:490:PRO:HD2	1.78	0.47
1:A:549:VAL:HG12	1:A:550:VAL:H	1.80	0.47
1:A:781:MET:HE3	1:A:781:MET:HB3	1.59	0.47
1:A:982:PHE:HD1	1:A:1011:MET:SD	2.38	0.47
1:B:81:ASN:HA	1:B:816:LEU:O	2.14	0.47
1:B:193:LEU:C	1:B:195:LYS:N	2.73	0.47
1:B:228:GLN:CB	1:C:781:MET:CE	2.90	0.47
1:B:395:MET:O	1:B:396:PHE:C	2.58	0.47
1:B:450:SER:O	1:B:452:VAL:N	2.48	0.47
1:B:481:SER:O	1:B:482:VAL:C	2.57	0.47
1:C:27:ILE:HD11	1:C:380:PHE:CD2	2.49	0.47
1:C:43:VAL:CA	1:C:130:GLU:O	2.56	0.47
1:C:54:ALA:HB2	1:C:84:SER:CA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:77:TYR:CE1	1:C:860:THR:CG2	2.98	0.47
1:C:911:GLY:HA2	1:C:1013:THR:CG2	2.44	0.47
1:C:1016:VAL:HA	1:C:1019:ILE:CD1	2.45	0.47
1:A:171:GLY:HA3	1:A:302:THR:HG23	1.96	0.47
1:A:274:ASN:ND2	1:A:276:ASP:N	2.43	0.47
1:A:298:ASN:C	1:A:300:LEU:H	2.23	0.47
1:A:410:ILE:O	1:A:411:VAL:C	2.57	0.47
1:A:414:GLU:CB	1:A:977:MET:HE1	2.44	0.47
1:A:737:GLN:O	1:A:738:ALA:C	2.58	0.47
1:A:743:ILE:H	1:A:743:ILE:CD1	2.18	0.47
1:A:823:PRO:C	1:A:824:SER:HG	2.21	0.47
1:A:828:LEU:HD23	1:A:828:LEU:H	1.76	0.47
1:A:841:MET:CE	1:A:863:SER:OG	2.48	0.47
1:A:990:VAL:HG11	1:A:1003:VAL:HG12	1.96	0.47
1:B:217:GLY:O	1:B:234:ILE:HD12	2.14	0.47
1:B:282:ASN:C	1:B:284:GLN:H	2.22	0.47
1:B:572:PHE:HD1	1:B:573:MET:O	1.98	0.47
1:B:598:TYR:HE2	1:B:655:PHE:CZ	2.29	0.47
1:B:677:ALA:O	1:B:678:THR:HB	2.14	0.47
1:B:690:LEU:O	1:B:691:GLY:O	2.33	0.47
1:B:866:GLU:O	1:B:867:ARG:C	2.55	0.47
1:B:926:TYR:O	1:B:929:VAL:N	2.45	0.47
1:B:932:LEU:CA	1:B:935:ILE:HD12	2.44	0.47
1:C:9:PRO:O	1:C:13:TRP:HB2	2.14	0.47
1:C:35:TYR:CB	1:C:36:PRO:HD2	2.45	0.47
1:C:56:THR:O	1:C:60:THR:CG2	2.63	0.47
1:C:83:ASP:OD2	1:C:85:THR:OG1	2.31	0.47
1:C:115:MET:HE2	1:C:115:MET:HA	1.97	0.47
1:C:396:PHE:O	1:C:400:LEU:HD23	2.15	0.47
1:C:420:MET:HB2	1:C:498:LYS:HZ3	1.73	0.47
1:C:439:GLN:HG3	1:C:440:GLY:N	2.30	0.47
1:C:743:ILE:O	1:C:746:ILE:CG1	2.46	0.47
1:C:823:PRO:O	1:C:824:SER:O	2.33	0.47
1:A:72:ILE:HG21	1:A:94:PHE:HE2	1.79	0.47
1:A:755:GLY:O	1:A:756:GLY:O	2.33	0.47
1:A:836:SER:OG	1:A:839:GLU:HG3	2.15	0.47
1:A:984:LEU:O	1:A:988:PRO:HD3	2.15	0.47
1:B:356:TYR:HE1	1:B:361:ASN:C	2.22	0.47
1:C:20:MET:HG3	1:C:374:VAL:HG22	1.92	0.47
1:C:157:TYR:O	1:C:161:ASN:N	2.47	0.47
1:C:725:PRO:HD3	1:C:811:TYR:CD2	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:941:ASN:HD22	1:C:942:ALA:N	2.13	0.47
1:A:169:THR:O	1:A:170:SER:C	2.57	0.47
1:A:407:ASP:O	1:A:408:ASP:C	2.57	0.47
1:A:986:VAL:CA	1:A:988:PRO:HD2	2.42	0.47
1:B:68:ASN:O	1:B:70:ASN:OD1	2.33	0.47
1:B:221:GLY:O	1:B:222:THR:C	2.57	0.47
1:B:729:ILE:HG23	1:B:730:ASP:N	2.29	0.47
1:B:776:GLU:O	1:B:780:ARG:HG3	2.14	0.47
1:B:925:VAL:CA	1:B:928:GLN:OE1	2.39	0.47
1:B:945:ILE:O	1:B:947:GLU:N	2.48	0.47
1:B:978:THR:C	1:B:980:LEU:H	2.23	0.47
1:C:34:GLN:HA	1:C:333:VAL:CG2	2.45	0.47
1:C:351:VAL:HG21	1:C:406:VAL:HG21	1.96	0.47
1:C:459:PHE:HE1	1:C:464:GLY:HA2	1.79	0.47
1:C:790:TYR:CA	1:C:799:VAL:O	2.63	0.47
1:C:844:MET:O	1:C:847:LEU:CD1	2.56	0.47
1:A:43:VAL:HA	1:A:130:GLU:O	2.15	0.47
1:A:203:VAL:HG13	1:A:262:LEU:HD11	1.97	0.47
1:A:240:LEU:C	1:A:241:THR:CG2	2.88	0.47
1:A:331:PRO:O	1:A:333:VAL:N	2.48	0.47
1:A:991:ILE:HD13	1:A:1008:MET:HG3	1.97	0.47
1:A:1027:VAL:O	1:A:1029:VAL:N	2.48	0.47
1:B:7:ASP:O	1:B:8:ARG:CB	2.62	0.47
1:B:49:TYR:HE2	1:B:125:GLN:CB	2.18	0.47
1:B:324:VAL:HG23	1:B:325:TYR:N	2.28	0.47
1:B:420:MET:CG	1:B:424:GLY:O	2.60	0.47
1:B:560:PRO:HB3	1:B:836:SER:HB3	1.96	0.47
1:B:943:ILE:C	1:B:945:ILE:H	2.22	0.47
1:C:1:MET:H3	1:C:2:PRO:HD2	1.79	0.47
1:C:83:ASP:O	1:C:85:THR:N	2.48	0.47
1:C:151:GLN:HB3	1:C:152:GLU:OE2	2.15	0.47
1:C:372:VAL:O	1:C:374:VAL:N	2.48	0.47
1:A:157:TYR:O	1:A:161:ASN:HB2	2.15	0.46
1:A:244:GLU:O	1:A:247:GLY:N	2.48	0.46
1:A:407:ASP:HA	1:A:978:THR:HG21	1.96	0.46
1:A:449:LEU:O	1:A:452:VAL:N	2.38	0.46
1:A:778:LYS:HB3	1:A:779:TYR:CD1	2.49	0.46
1:A:778:LYS:C	1:A:779:TYR:CD1	2.92	0.46
1:A:879:ILE:HD12	1:A:879:ILE:N	2.30	0.46
1:B:1:MET:H2	1:B:2:PRO:HD2	1.80	0.46
1:B:56:THR:O	1:B:60:THR:OG1	2.26	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:251:LEU:O	1:B:252:LYS:HB2	2.15	0.46
1:B:338:HIS:O	1:B:342:LYS:HB2	2.15	0.46
1:B:355:MET:SD	1:B:368:PRO:HB2	2.55	0.46
1:B:359:LEU:HD21	1:B:417:GLU:HG2	1.97	0.46
1:B:371:ALA:O	1:B:372:VAL:C	2.57	0.46
1:B:847:LEU:O	1:B:848:ALA:C	2.58	0.46
1:C:35:TYR:CE2	1:C:392:THR:CG2	2.98	0.46
1:C:58:GLN:CG	1:C:62:THR:HB	2.31	0.46
1:C:73:ASP:O	1:C:74:ASN:CB	2.58	0.46
1:C:195:LYS:C	1:C:197:GLN:N	2.73	0.46
1:C:211:ASN:HD22	1:C:240:LEU:N	2.07	0.46
1:C:358:PHE:O	1:C:359:LEU:HD23	2.15	0.46
1:C:699:ARG:HG3	1:C:703:LEU:HD12	1.96	0.46
1:C:945:ILE:O	1:C:1026:PHE:HZ	1.98	0.46
1:A:155:SER:OG	1:A:179:GLY:HA3	2.14	0.46
1:A:600:THR:C	1:A:602:GLU:N	2.72	0.46
1:A:815:ARG:HG2	1:A:815:ARG:HH11	1.79	0.46
1:B:28:LEU:CD1	1:B:29:LYS:HD3	2.45	0.46
1:B:30:LEU:HB3	1:B:390:ILE:CD1	2.46	0.46
1:B:216:ALA:HB3	1:B:234:ILE:O	2.15	0.46
1:B:399:VAL:HG12	1:B:989:LEU:HD22	1.98	0.46
1:B:686:ASP:HB3	1:B:823:PRO:HG2	1.97	0.46
1:B:973:ARG:N	1:B:974:PRO:CD	2.78	0.46
1:C:204:ILE:C	1:C:206:ALA:N	2.72	0.46
1:C:244:GLU:O	1:C:245:GLU:C	2.58	0.46
1:C:266:ALA:O	1:C:268:ILE:HG13	2.16	0.46
1:C:576:VAL:O	1:C:578:LEU:N	2.49	0.46
1:C:637:ARG:HB3	1:C:642:ASN:HB3	1.98	0.46
1:C:698:ALA:O	1:C:699:ARG:C	2.59	0.46
1:C:909:VAL:HG12	1:C:910:ILE:N	2.29	0.46
1:C:952:LEU:HA	1:C:956:GLU:CB	2.44	0.46
1:C:978:THR:O	1:C:979:SER:C	2.58	0.46
1:A:11:PHE:O	1:A:14:VAL:N	2.48	0.46
1:A:201:VAL:HG12	1:A:202:ASP:N	2.29	0.46
1:A:316:PHE:CD1	1:A:316:PHE:N	2.84	0.46
1:A:362:PHE:C	1:A:362:PHE:CD2	2.93	0.46
1:A:397:GLY:CA	1:A:473:THR:HG21	2.45	0.46
1:A:523:SER:O	1:A:527:TYR:N	2.48	0.46
1:A:719:ASN:HB3	1:A:826:GLU:OE1	2.15	0.46
1:A:864:TYR:O	1:A:865:GLN:C	2.58	0.46
1:A:890:ALA:CB	1:C:11:PHE:HA	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:63:GLN:OE1	1:B:63:GLN:HA	2.15	0.46
1:B:102:ILE:O	1:B:102:ILE:HG23	2.15	0.46
1:B:723:ASP:HA	1:B:814:PRO:HD3	1.97	0.46
1:C:40:PRO:HA	1:C:41:PRO:HD3	1.60	0.46
1:C:169:THR:HG22	1:C:172:VAL:CG2	2.45	0.46
1:C:419:VAL:O	1:C:423:GLU:HB2	2.15	0.46
1:C:638:PRO:O	1:C:639:GLY:O	2.33	0.46
1:C:732:ASP:N	1:C:804:PHE:O	2.43	0.46
1:C:953:MET:CG	1:C:963:ALA:HB2	2.45	0.46
1:A:298:ASN:HD21	1:A:300:LEU:CA	2.28	0.46
1:A:310:LEU:HA	1:A:313:MET:CE	2.45	0.46
1:A:313:MET:H	1:A:315:PRO:HD3	1.77	0.46
1:A:615:PHE:CZ	2:A:2002:DM2:C1	2.98	0.46
1:A:684:LEU:HD12	1:A:684:LEU:HA	1.62	0.46
1:A:778:LYS:C	1:A:779:TYR:HD1	2.23	0.46
1:B:40:PRO:HD2	1:B:673:GLU:CD	2.40	0.46
1:B:54:ALA:O	1:B:57:VAL:CG2	2.63	0.46
1:B:198:LEU:HD23	1:B:792:ARG:NH2	2.31	0.46
1:B:492:LEU:HD13	1:B:496:MET:HB3	1.98	0.46
1:B:713:LEU:HD21	1:B:843:LEU:HD23	1.97	0.46
1:B:791:VAL:HG21	1:B:801:PHE:CE2	2.43	0.46
1:C:18:ILE:C	1:C:20:MET:H	2.23	0.46
1:C:102:ILE:O	1:C:104:GLN:N	2.48	0.46
1:C:463:THR:O	1:C:466:ILE:CG1	2.56	0.46
1:A:47:ALA:HB2	1:A:127:VAL:HG13	1.97	0.46
1:A:142:VAL:O	1:A:154:ILE:HG21	2.15	0.46
1:A:164:ASP:O	1:A:165:ALA:O	2.33	0.46
1:A:414:GLU:HB2	1:A:977:MET:HE1	1.97	0.46
1:A:636:ASP:OD2	1:A:636:ASP:N	2.49	0.46
1:A:867:ARG:HA	1:A:867:ARG:HD2	1.70	0.46
1:B:131:LYS:O	1:B:132:SER:CB	2.46	0.46
1:B:156:ASP:HB2	1:B:182:TYR:CD1	2.50	0.46
1:B:196:PHE:CD1	1:B:260:VAL:HG21	2.51	0.46
1:B:219:LEU:HD13	1:C:783:PRO:HG3	1.98	0.46
1:B:331:PRO:HG2	1:B:332:PHE:N	2.31	0.46
1:B:472:ILE:O	1:B:473:THR:C	2.54	0.46
1:B:492:LEU:HD13	1:B:496:MET:CB	2.45	0.46
1:B:527:TYR:HD2	1:B:1019:ILE:HG21	1.80	0.46
1:B:904:VAL:CG1	1:B:907:LEU:HD12	2.23	0.46
1:C:189:ASN:ND2	1:C:190:PRO:N	2.63	0.46
1:C:277:ILE:HG22	1:C:278:ILE:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:513:PHE:HB2	1:C:517:ASN:HB3	1.97	0.46
1:C:588:GLN:OE1	1:C:588:GLN:CA	2.62	0.46
1:C:962:GLU:HA	1:C:965:LEU:HB2	1.98	0.46
1:A:102:ILE:HA	1:A:105:VAL:HG23	1.96	0.46
1:A:414:GLU:OE1	1:A:414:GLU:O	2.32	0.46
1:A:660:ASP:O	1:A:660:ASP:OD2	2.34	0.46
1:A:710:PRO:O	1:A:713:LEU:CD2	2.59	0.46
1:A:733:GLN:HG3	1:C:210:GLN:HG3	1.98	0.46
1:A:845:GLU:HG2	1:A:859:TRP:HZ2	1.80	0.46
1:A:864:TYR:CE2	1:A:868:LEU:HD13	2.51	0.46
1:B:174:ASP:CG	1:B:175:VAL:H	2.23	0.46
1:B:204:ILE:C	1:B:206:ALA:H	2.22	0.46
1:B:342:LYS:HE2	1:B:342:LYS:HB3	1.60	0.46
1:B:450:SER:O	1:B:451:ALA:C	2.57	0.46
1:B:470:PHE:HE2	1:B:929:VAL:HG21	1.80	0.46
1:B:605:ASN:OD1	1:B:647:ILE:HD11	2.16	0.46
1:C:35:TYR:CB	1:C:36:PRO:CD	2.93	0.46
1:C:102:ILE:HA	1:C:105:VAL:HB	1.97	0.46
1:C:163:LYS:HG3	1:C:163:LYS:O	2.16	0.46
1:C:322:LYS:HZ3	1:C:322:LYS:CB	2.28	0.46
1:C:635:ALA:C	1:C:637:ARG:H	2.23	0.46
1:C:727:PHE:CZ	1:C:783:PRO:CB	2.98	0.46
1:C:734:GLU:O	1:C:738:ALA:N	2.49	0.46
1:C:775:SER:CB	1:C:780:ARG:HD3	2.39	0.46
1:C:781:MET:O	1:C:782:LEU:HD23	2.16	0.46
1:A:11:PHE:C	1:A:13:TRP:H	2.24	0.46
1:A:61:VAL:HG13	1:A:118:LEU:HD11	1.98	0.46
1:A:137:LEU:HG	1:A:138:MET:H	1.80	0.46
1:A:138:MET:HE3	1:A:306:ILE:CD1	2.43	0.46
1:A:241:THR:HB	1:A:763:ILE:O	2.15	0.46
1:A:402:ILE:HG23	1:A:403:GLY:N	2.30	0.46
1:A:727:PHE:O	1:C:234:ILE:HA	2.16	0.46
1:B:157:TYR:C	1:B:159:ALA:H	2.23	0.46
1:B:871:ASN:ND2	1:B:871:ASN:H	2.13	0.46
1:B:932:LEU:HA	1:B:935:ILE:CD1	2.42	0.46
1:B:1021:PHE:C	1:B:1025:PHE:CD2	2.92	0.46
1:C:34:GLN:C	1:C:35:TYR:CG	2.93	0.46
1:C:240:LEU:HD22	1:C:245:GLU:HB3	1.97	0.46
1:C:244:GLU:C	1:C:263:ARG:HH22	2.23	0.46
1:C:386:PHE:N	1:C:386:PHE:HD1	2.14	0.46
1:C:682:PHE:CE1	1:C:857:TYR:CG	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:726:GLN:OE1	1:C:812:GLY:HA3	2.15	0.46
1:C:758:TYR:HB2	1:C:770:LYS:CE	2.45	0.46
1:C:949:ALA:CB	1:C:967:ALA:HB2	2.40	0.46
1:A:291:ILE:HG22	1:A:292:LYS:N	2.25	0.46
1:A:688:ALA:C	1:A:690:LEU:N	2.73	0.46
1:A:826:GLU:HG2	1:A:827:ILE:N	2.31	0.46
1:A:862:MET:O	1:A:865:GLN:HB2	2.16	0.46
1:A:949:ALA:CB	1:A:1026:PHE:CD2	2.91	0.46
1:B:158:VAL:O	1:B:162:MET:HG2	2.15	0.46
1:B:228:GLN:CD	1:C:781:MET:HB3	2.40	0.46
1:B:294:ALA:HB3	1:B:297:ALA:HB3	1.98	0.46
1:B:307:ARG:O	1:B:311:ALA:HB2	2.16	0.46
1:B:626:ILE:HD11	1:B:628:PHE:HZ	1.80	0.46
1:C:35:TYR:CB	1:C:671:ILE:CG2	2.94	0.46
1:C:74:ASN:CG	1:C:98:THR:CG2	2.85	0.46
1:C:293:LEU:HD23	1:C:293:LEU:HA	1.73	0.46
1:C:298:ASN:CG	1:C:301:ASP:OD1	2.59	0.46
1:C:435:MET:O	1:C:436:GLY:C	2.57	0.46
1:C:543:VAL:O	1:C:543:VAL:HG12	2.15	0.46
1:C:892:TYR:O	1:C:897:ILE:HD12	2.16	0.46
1:C:952:LEU:HA	1:C:956:GLU:HB2	1.98	0.46
1:C:961:ILE:O	1:C:961:ILE:HG22	2.14	0.46
1:A:69:MET:HE1	1:A:110:LYS:C	2.41	0.46
1:A:687:GLN:CB	1:A:854:GLY:O	2.59	0.46
1:A:726:GLN:HB2	1:A:810:GLU:HG2	1.98	0.46
1:A:946:VAL:O	1:A:946:VAL:HG12	2.15	0.46
1:B:100:ALA:C	1:B:102:ILE:N	2.73	0.46
1:B:281:PHE:CE1	1:B:324:VAL:HG21	2.51	0.46
1:B:441:ALA:HA	1:B:947:GLU:OE1	2.16	0.46
1:B:564:LEU:CD2	1:B:565:PRO:HD2	2.46	0.46
1:B:782:LEU:HB3	1:B:783:PRO:HD2	1.98	0.46
1:B:898:PRO:O	1:B:899:PHE:C	2.58	0.46
1:B:916:ALA:O	1:B:918:PHE:C	2.59	0.46
1:B:940:LYS:HE3	1:B:941:ASN:N	2.30	0.46
1:C:18:ILE:C	1:C:20:MET:N	2.74	0.46
1:C:58:GLN:HG2	1:C:62:THR:HG21	1.98	0.46
1:C:172:VAL:HG22	1:C:291:ILE:HG21	1.97	0.46
1:C:420:MET:HB2	1:C:498:LYS:CE	2.46	0.46
1:C:448:VAL:HG13	1:C:887:CYS:SG	2.56	0.46
1:C:467:TYR:C	1:C:469:GLN:N	2.73	0.46
1:C:472:ILE:N	1:C:472:ILE:CD1	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:907:LEU:O	1:C:910:ILE:HG22	2.16	0.46
1:A:565:PRO:O	1:A:566:ASP:O	2.33	0.46
1:A:688:ALA:C	1:A:690:LEU:H	2.24	0.46
1:B:111:LEU:O	1:B:112:GLN:C	2.59	0.46
1:B:162:MET:HB2	1:B:313:MET:SD	2.56	0.46
1:B:166:ILE:HG22	1:B:167:SER:N	2.30	0.46
1:B:559:LEU:HD23	1:B:923:ASN:ND2	2.30	0.46
1:B:564:LEU:HD23	1:B:565:PRO:HD2	1.98	0.46
1:B:801:PHE:HA	1:B:804:PHE:CE1	2.50	0.46
1:B:973:ARG:HG3	1:B:976:LEU:HD12	1.98	0.46
1:C:16:ALA:HB1	1:C:374:VAL:HG21	1.98	0.46
1:C:266:ALA:O	1:C:267:LYS:O	2.27	0.46
1:C:487:ILE:O	1:C:488:LEU:C	2.59	0.46
1:C:634:TRP:O	1:C:637:ARG:N	2.47	0.46
1:C:909:VAL:CG1	1:C:910:ILE:N	2.77	0.46
1:A:66:GLU:N	1:A:66:GLU:HA	2.13	0.45
1:A:277:ILE:HD12	1:A:613:ASN:O	2.17	0.45
1:A:461:GLY:C	1:A:463:THR:N	2.73	0.45
1:A:529:ASP:O	1:A:531:VAL:N	2.49	0.45
1:A:578:LEU:HD12	1:A:587:THR:HA	1.98	0.45
1:A:639:GLY:O	1:A:640:GLU:C	2.59	0.45
1:A:818:ARG:CZ	1:A:823:PRO:HD3	2.46	0.45
1:A:821:GLY:N	1:C:168:ARG:NH1	2.63	0.45
1:B:64:VAL:C	1:B:66:GLU:H	2.24	0.45
1:B:223:PRO:HA	1:B:224:PRO:HD3	1.70	0.45
1:B:325:TYR:O	1:B:326:PRO:C	2.55	0.45
1:B:607:GLU:HG2	1:B:632:LYS:HA	1.98	0.45
1:B:671:ILE:CG2	1:B:676:THR:CG2	2.93	0.45
1:B:684:LEU:HD13	1:B:702:LEU:HD23	1.95	0.45
1:B:882:ILE:HG12	1:B:882:ILE:H	1.45	0.45
1:B:897:ILE:CD1	1:B:946:VAL:HG12	2.39	0.45
1:C:43:VAL:HG23	1:C:92:LEU:O	2.15	0.45
1:C:905:VAL:HG12	1:C:906:PRO:HD3	1.97	0.45
1:C:948:PHE:HD1	1:C:948:PHE:N	2.09	0.45
1:A:105:VAL:O	1:A:108:GLN:CA	2.65	0.45
1:A:150:THR:O	1:A:154:ILE:HG13	2.17	0.45
1:A:176:GLN:HG2	1:A:177:LEU:N	2.31	0.45
1:A:526:HIS:ND1	1:A:526:HIS:O	2.49	0.45
1:A:699:ARG:HH21	1:A:700:ASN:CG	2.25	0.45
1:A:1011:MET:O	1:A:1012:VAL:O	2.34	0.45
1:B:897:ILE:HD11	1:B:950:LYS:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:926:TYR:CZ	1:B:999:ALA:HB1	2.51	0.45
1:B:952:LEU:HD11	1:B:966:ASP:HB2	1.98	0.45
1:C:228:GLN:NE2	1:C:230:LEU:O	2.44	0.45
1:C:575:MET:CE	1:C:617:PHE:HD1	2.28	0.45
1:C:695:LEU:HD13	1:C:695:LEU:C	2.41	0.45
1:C:716:VAL:HG13	1:C:717:ARG:N	2.30	0.45
1:C:750:LEU:HD23	1:C:750:LEU:HA	1.37	0.45
1:A:83:ASP:OD1	1:A:83:ASP:C	2.59	0.45
1:A:166:ILE:HD11	1:A:310:LEU:CD2	2.46	0.45
1:A:215:ALA:O	1:A:216:ALA:CB	2.63	0.45
1:A:395:MET:C	1:A:397:GLY:N	2.71	0.45
1:A:431:THR:O	1:A:432:ARG:C	2.58	0.45
1:A:737:GLN:NE2	1:C:250:LEU:CG	2.76	0.45
1:B:35:TYR:HB3	1:B:36:PRO:HD2	1.98	0.45
1:B:142:VAL:CG1	1:B:322:LYS:O	2.64	0.45
1:B:172:VAL:O	1:B:172:VAL:HG12	2.17	0.45
1:B:182:TYR:HB2	1:B:769:LYS:HE2	1.97	0.45
1:B:313:MET:HB2	1:B:317:PHE:CE1	2.51	0.45
1:B:764:ASP:OD2	1:B:769:LYS:NZ	2.43	0.45
1:B:767:ARG:NH2	1:C:67:GLN:OE1	2.49	0.45
1:B:791:VAL:HG12	1:B:792:ARG:O	2.15	0.45
1:B:824:SER:O	1:B:824:SER:OG	2.31	0.45
1:B:946:VAL:CG1	1:B:1026:PHE:CD1	2.85	0.45
1:B:987:MET:CE	1:B:990:VAL:HB	2.47	0.45
1:C:218:GLN:HB3	1:C:233:SER:CA	2.24	0.45
1:C:399:VAL:O	1:C:402:ILE:HB	2.17	0.45
1:C:938:SER:CA	1:C:941:ASN:HD21	2.29	0.45
1:A:393:LEU:HD23	1:A:466:ILE:HA	1.98	0.45
1:A:444:GLY:HA3	1:A:891:LEU:HD13	1.97	0.45
1:A:744:ASN:OD1	1:A:744:ASN:N	2.49	0.45
1:A:782:LEU:O	1:A:783:PRO:C	2.58	0.45
1:A:861:GLY:O	1:A:862:MET:C	2.57	0.45
1:B:2:PRO:O	1:B:5:PHE:HB2	2.16	0.45
1:B:63:GLN:O	1:B:64:VAL:C	2.59	0.45
1:B:102:ILE:O	1:B:106:GLN:N	2.47	0.45
1:B:105:VAL:O	1:B:106:GLN:C	2.54	0.45
1:B:559:LEU:CD2	1:B:923:ASN:HD22	2.29	0.45
1:B:566:ASP:OD1	1:B:566:ASP:N	2.49	0.45
1:B:597:TYR:HB3	1:B:655:PHE:HE1	1.80	0.45
1:B:919:ARG:HB2	1:B:921:LEU:HD13	1.99	0.45
1:B:948:PHE:HA	1:B:951:ASP:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:978:THR:OG1	1:B:979:SER:N	2.48	0.45
1:C:42:ALA:HB2	1:C:93:THR:CG2	2.37	0.45
1:C:157:TYR:O	1:C:158:VAL:C	2.57	0.45
1:C:262:LEU:HG	1:C:262:LEU:O	2.16	0.45
1:C:552:MET:O	1:C:553:ALA:C	2.59	0.45
1:C:588:GLN:O	1:C:591:LEU:HB2	2.17	0.45
1:C:762:PHE:CD1	1:C:763:ILE:N	2.83	0.45
1:C:912:ALA:N	1:C:1010:GLY:CA	2.79	0.45
1:A:49:TYR:O	1:A:50:PRO:C	2.59	0.45
1:A:159:ALA:CB	1:A:177:LEU:HD11	2.37	0.45
1:A:182:TYR:CD1	1:A:270:LEU:HB3	2.52	0.45
1:A:965:LEU:O	1:A:969:ARG:CB	2.63	0.45
1:B:193:LEU:O	1:B:194:ASN:C	2.59	0.45
1:B:197:GLN:HA	1:B:798:MET:SD	2.57	0.45
1:B:513:PHE:O	1:B:516:PHE:CB	2.64	0.45
1:B:587:THR:HG23	1:B:623:ASN:HA	1.98	0.45
1:B:831:ALA:CB	1:B:840:ALA:CB	2.94	0.45
1:B:900:SER:HB2	1:B:901:VAL:H	1.54	0.45
1:B:943:ILE:O	1:B:947:GLU:CB	2.64	0.45
1:C:35:TYR:CD1	1:C:671:ILE:HG12	2.51	0.45
1:C:76:MET:HG2	1:C:864:TYR:CE2	2.51	0.45
1:C:160:ALA:HA	1:C:767:ARG:NH1	2.30	0.45
1:C:353:LEU:O	1:C:356:TYR:N	2.50	0.45
1:C:396:PHE:CZ	1:C:999:ALA:HB1	2.51	0.45
1:C:450:SER:O	1:C:454:VAL:N	2.44	0.45
1:C:872:GLN:O	1:C:873:ALA:HB2	2.17	0.45
1:A:228:GLN:O	1:A:229:GLN:HG3	2.17	0.45
1:A:230:LEU:HD21	1:B:809:TRP:HH2	1.81	0.45
1:A:375:VAL:HG23	1:A:484:VAL:CG1	2.25	0.45
1:A:375:VAL:CG1	1:A:405:LEU:HD12	2.47	0.45
1:A:746:ILE:CD1	1:A:804:PHE:CD1	3.00	0.45
1:A:889:ALA:HA	1:A:898:PRO:HG3	1.97	0.45
1:B:9:PRO:O	1:B:13:TRP:HB2	2.16	0.45
1:B:58:GLN:HA	1:B:62:THR:OG1	2.16	0.45
1:B:255:GLN:HG3	1:B:256:ASP:N	2.30	0.45
1:B:327:TYR:OH	1:B:573:MET:CE	2.64	0.45
1:B:770:LYS:C	1:B:771:VAL:CG2	2.90	0.45
1:B:801:PHE:O	1:B:803:ALA:N	2.49	0.45
1:B:846:GLN:HE21	1:B:846:GLN:HB2	1.65	0.45
1:B:902:MET:C	1:B:904:VAL:H	2.25	0.45
1:B:908:GLY:C	1:B:910:ILE:N	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:137:LEU:HB3	1:C:138:MET:HB3	1.97	0.45
1:C:367:ILE:HB	1:C:368:PRO:HD3	1.99	0.45
1:C:682:PHE:CD2	1:C:827:ILE:HD12	2.51	0.45
1:A:117:LEU:HD13	1:C:124:GLN:O	2.11	0.45
1:A:129:VAL:O	1:A:130:GLU:HG2	2.16	0.45
1:A:189:ASN:ND2	1:A:192:GLU:HB3	2.32	0.45
1:A:331:PRO:O	1:A:332:PHE:C	2.59	0.45
1:A:435:MET:SD	1:A:490:PRO:HB3	2.56	0.45
1:A:724:THR:C	1:A:811:TYR:CD1	2.95	0.45
1:A:986:VAL:O	1:A:990:VAL:O	2.35	0.45
1:B:3:ASN:CG	1:B:4:PHE:H	2.23	0.45
1:B:218:GLN:HB2	1:B:232:ALA:O	2.15	0.45
1:B:218:GLN:HB3	1:B:233:SER:HA	1.98	0.45
1:B:403:GLY:O	1:B:404:LEU:HD12	2.16	0.45
1:B:407:ASP:O	1:B:410:ILE:HG22	2.17	0.45
1:B:703:LEU:O	1:B:705:GLU:N	2.50	0.45
1:B:784:ASP:O	1:B:785:ASP:C	2.60	0.45
1:B:946:VAL:CG2	1:B:1026:PHE:HE1	2.20	0.45
1:B:959:GLY:O	1:B:962:GLU:HB3	2.17	0.45
1:B:991:ILE:O	1:B:991:ILE:HG12	2.05	0.45
1:C:143:ILE:CD1	1:C:144:ASN:N	2.76	0.45
1:C:175:VAL:HG13	1:C:290:GLY:O	2.16	0.45
1:C:310:LEU:HB3	1:C:323:ILE:CD1	2.46	0.45
1:C:377:LEU:HD22	1:C:377:LEU:HA	1.47	0.45
1:A:138:MET:CE	1:A:306:ILE:CD1	2.95	0.45
1:A:254:ASN:O	1:A:258:SER:HB2	2.17	0.45
1:A:403:GLY:HA3	1:A:982:PHE:CZ	2.52	0.45
1:A:894:SER:CB	1:A:897:ILE:CD1	2.73	0.45
1:A:990:VAL:O	1:A:991:ILE:HB	2.16	0.45
1:A:1017:LEU:HD12	1:A:1021:PHE:CE2	2.51	0.45
1:B:30:LEU:HA	1:B:31:PRO:HD2	1.39	0.45
1:B:78:MET:HB2	1:B:92:LEU:HD13	1.99	0.45
1:B:235:ILE:CD1	1:C:726:GLN:OE1	2.63	0.45
1:B:314:GLU:N	1:B:315:PRO:CD	2.79	0.45
1:B:378:GLY:O	1:B:381:ALA:HB3	2.17	0.45
1:B:437:GLN:NE2	1:B:948:PHE:HE1	2.15	0.45
1:B:552:MET:CB	1:B:910:ILE:HG13	2.47	0.45
1:B:565:PRO:C	1:B:566:ASP:OD1	2.60	0.45
1:B:1029:VAL:O	1:B:1032:ARG:N	2.50	0.45
1:C:197:GLN:HA	1:C:798:MET:CE	2.20	0.45
1:C:325:TYR:N	1:C:326:PRO:CD	2.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:550:VAL:O	1:C:550:VAL:HG12	2.17	0.45
1:A:47:ALA:O	1:A:87:THR:CG2	2.64	0.45
1:A:108:GLN:CB	1:A:129:VAL:HG11	2.42	0.45
1:A:398:MET:HA	1:A:401:ALA:CB	2.44	0.45
1:A:552:MET:SD	1:A:909:VAL:HB	2.57	0.45
1:A:576:VAL:HG12	1:A:663:VAL:CG2	2.41	0.45
1:A:621:GLY:O	1:A:622:GLN:C	2.56	0.45
1:A:634:TRP:O	1:A:635:ALA:C	2.59	0.45
1:A:701:GLN:OE1	1:A:851:LEU:HD23	2.16	0.45
1:A:721:LEU:CD1	1:A:815:ARG:HD3	2.46	0.45
1:A:857:TYR:O	1:A:857:TYR:CG	2.63	0.45
1:A:880:SER:O	1:A:881:LEU:C	2.59	0.45
1:A:905:VAL:CG1	1:A:935:ILE:CD1	2.95	0.45
1:B:3:ASN:O	1:B:6:ILE:N	2.48	0.45
1:B:189:ASN:CG	1:B:192:GLU:HG2	2.41	0.45
1:B:294:ALA:HB3	1:B:297:ALA:CB	2.47	0.45
1:B:905:VAL:C	1:B:907:LEU:H	2.25	0.45
1:B:945:ILE:HD13	1:B:1022:VAL:CG2	2.44	0.45
1:B:953:MET:HA	1:B:958:LYS:HA	1.98	0.45
1:B:1019:ILE:HB	1:B:1020:PHE:CD1	2.52	0.45
1:C:5:PHE:O	1:C:6:ILE:C	2.59	0.45
1:C:25:LEU:C	1:C:27:ILE:H	2.25	0.45
1:C:34:GLN:HA	1:C:333:VAL:HG22	1.99	0.45
1:C:76:MET:HG2	1:C:864:TYR:CZ	2.52	0.45
1:C:204:ILE:O	1:C:205:THR:C	2.58	0.45
1:C:212:ALA:O	1:C:238:THR:C	2.59	0.45
1:C:254:ASN:ND2	1:C:258:SER:O	2.50	0.45
1:C:527:TYR:CD1	1:C:1020:PHE:CE2	3.05	0.45
1:C:756:GLY:HA2	1:C:774:MET:HB2	1.99	0.45
1:C:764:ASP:O	1:C:767:ARG:N	2.45	0.45
1:C:768:VAL:HG13	1:C:769:LYS:N	2.32	0.45
1:A:282:ASN:ND2	1:A:609:VAL:HG22	2.31	0.45
1:A:362:PHE:CE2	1:A:366:LEU:HD12	2.52	0.45
1:A:566:ASP:OD1	1:A:667:ASN:ND2	2.50	0.45
1:A:889:ALA:CA	1:A:898:PRO:HG3	2.47	0.45
1:B:181:GLN:OE1	1:B:769:LYS:HE3	2.17	0.45
1:B:190:PRO:HD3	1:B:779:TYR:CD2	2.52	0.45
1:B:435:MET:HA	1:B:435:MET:HE3	1.98	0.45
1:B:658:ILE:O	1:B:658:ILE:CG2	2.65	0.45
1:B:665:ALA:O	1:B:666:PHE:CD2	2.70	0.45
1:B:759:VAL:O	1:B:760:ASN:CB	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:967:ALA:O	1:B:969:ARG:N	2.50	0.45
1:C:55:LYS:HE2	1:C:59:ASP:OD1	2.17	0.45
1:C:137:LEU:N	1:C:291:ILE:O	2.50	0.45
1:C:152:GLU:O	1:C:155:SER:N	2.50	0.45
1:C:372:VAL:HG22	1:C:405:LEU:HB3	1.97	0.45
1:C:655:PHE:CG	1:C:663:VAL:HG11	2.52	0.45
1:C:666:PHE:N	1:C:666:PHE:CD2	2.85	0.45
1:C:790:TYR:HB3	1:C:799:VAL:O	2.17	0.45
1:C:964:THR:O	1:C:967:ALA:HB3	2.17	0.45
1:C:980:LEU:HD12	1:C:984:LEU:HD23	1.98	0.45
1:A:18:ILE:O	1:A:20:MET:N	2.50	0.44
1:A:155:SER:O	1:A:156:ASP:C	2.59	0.44
1:A:545:TYR:O	1:A:548:ILE:N	2.50	0.44
1:A:591:LEU:HD22	1:A:611:ALA:HB1	1.97	0.44
1:A:895:TRP:CE2	1:C:10:ILE:HG23	2.52	0.44
1:B:199:THR:O	1:B:200:PRO:C	2.56	0.44
1:B:386:PHE:O	1:B:388:PHE:HD2	1.99	0.44
1:B:591:LEU:HD12	1:B:611:ALA:HB1	1.99	0.44
1:B:911:GLY:C	1:B:1010:GLY:HA2	2.42	0.44
1:B:961:ILE:HA	1:B:964:THR:HB	1.98	0.44
1:B:964:THR:O	1:B:964:THR:CG2	2.63	0.44
1:C:50:PRO:CD	1:C:125:GLN:NE2	2.79	0.44
1:C:163:LYS:HZ2	1:C:175:VAL:HB	1.82	0.44
1:C:280:GLU:HB2	1:C:284:GLN:O	2.16	0.44
1:C:322:LYS:O	1:C:323:ILE:C	2.58	0.44
1:C:819:TYR:CZ	1:C:860:THR:HG23	2.52	0.44
1:A:126:GLY:CA	1:B:116:PRO:CB	2.94	0.44
1:A:750:LEU:HD23	1:A:754:TRP:CD1	2.52	0.44
1:B:1:MET:H3	1:B:2:PRO:CD	2.28	0.44
1:B:12:ALA:C	1:B:488:LEU:HD23	2.42	0.44
1:B:25:LEU:C	1:B:27:ILE:H	2.23	0.44
1:B:171:GLY:HA3	1:B:302:THR:HG21	1.98	0.44
1:B:362:PHE:O	1:B:364:ALA:N	2.50	0.44
1:B:480:LEU:O	1:B:483:LEU:N	2.50	0.44
1:B:764:ASP:C	1:B:766:GLY:H	2.25	0.44
1:B:863:SER:C	1:B:865:GLN:N	2.75	0.44
1:B:911:GLY:O	1:B:1009:GLY:C	2.60	0.44
1:C:3:ASN:ND2	1:C:432:ARG:HH11	2.15	0.44
1:C:26:ALA:O	1:C:30:LEU:CG	2.33	0.44
1:C:472:ILE:HD12	1:C:472:ILE:HA	1.66	0.44
1:C:700:ASN:N	1:C:703:LEU:HD12	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:262:LEU:HD12	1:A:262:LEU:HA	1.79	0.44
1:A:317:PHE:HA	1:A:318:PRO:HD3	1.79	0.44
1:A:569:GLN:HE21	1:A:569:GLN:HB3	1.57	0.44
1:A:615:PHE:CZ	2:A:2002:DM2:O19	2.70	0.44
1:B:578:LEU:HD22	1:B:587:THR:CG2	2.47	0.44
1:B:605:ASN:ND2	1:B:605:ASN:N	2.64	0.44
1:C:78:MET:HE3	1:C:92:LEU:HD23	1.99	0.44
1:C:451:ALA:CB	1:C:883:VAL:HG12	2.48	0.44
1:C:989:LEU:N	1:C:992:SER:OG	2.51	0.44
1:C:1020:PHE:O	1:C:1023:PRO:HD2	2.16	0.44
1:A:11:PHE:O	1:A:14:VAL:HG23	2.17	0.44
1:A:55:LYS:HD3	1:A:816:LEU:HD11	1.98	0.44
1:A:276:ASP:HB3	1:C:222:THR:HG23	2.00	0.44
1:A:316:PHE:HD1	1:A:316:PHE:N	2.15	0.44
1:A:367:ILE:O	1:A:370:ILE:N	2.49	0.44
1:A:386:PHE:C	1:A:388:PHE:H	2.26	0.44
1:A:388:PHE:CD1	1:A:388:PHE:N	2.81	0.44
1:A:717:ARG:NH1	1:A:828:LEU:CG	2.78	0.44
1:A:743:ILE:HA	1:A:746:ILE:HG13	1.98	0.44
1:A:871:ASN:O	1:A:871:ASN:OD1	2.36	0.44
1:A:1022:VAL:N	1:A:1025:PHE:CD2	2.85	0.44
1:B:13:TRP:O	1:B:17:ILE:HG13	2.18	0.44
1:B:42:ALA:HA	1:B:93:THR:HA	1.99	0.44
1:B:119:PRO:C	1:B:121:GLU:H	2.25	0.44
1:B:206:ALA:O	1:B:207:ILE:C	2.60	0.44
1:B:478:MET:O	1:B:481:SER:N	2.50	0.44
1:B:541:TYR:C	1:B:543:VAL:N	2.75	0.44
1:C:4:PHE:C	1:C:8:ARG:NH1	2.68	0.44
1:C:639:GLY:C	1:C:641:GLU:H	2.25	0.44
1:C:658:ILE:O	1:C:659:LYS:HG3	2.18	0.44
1:C:684:LEU:HD12	1:C:685:ILE:H	1.77	0.44
1:C:778:LYS:HG3	1:C:779:TYR:CE2	2.52	0.44
1:C:801:PHE:HA	1:C:804:PHE:CZ	2.52	0.44
1:C:820:ASN:O	1:C:821:GLY:C	2.60	0.44
1:A:337:ILE:O	1:A:338:HIS:C	2.61	0.44
1:A:356:TYR:O	1:A:357:LEU:C	2.60	0.44
1:A:440:GLY:O	1:A:441:ALA:C	2.60	0.44
1:A:1007:VAL:O	1:A:1010:GLY:N	2.50	0.44
1:B:204:ILE:O	1:B:207:ILE:N	2.50	0.44
1:B:359:LEU:HD22	1:B:359:LEU:HA	1.81	0.44
1:B:376:LEU:O	1:B:379:THR:OG1	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:393:LEU:N	1:B:393:LEU:HD23	2.32	0.44
1:B:451:ALA:HB2	1:B:887:CYS:SG	2.58	0.44
1:B:666:PHE:CZ	1:B:830:GLN:NE2	2.85	0.44
1:B:682:PHE:CZ	1:B:848:ALA:HB2	2.52	0.44
1:B:705:GLU:CB	1:B:847:LEU:CD2	2.96	0.44
1:B:763:ILE:HD12	1:B:763:ILE:HA	1.79	0.44
1:B:801:PHE:C	1:B:803:ALA:N	2.74	0.44
1:B:905:VAL:CB	1:B:906:PRO:CD	2.87	0.44
1:C:250:LEU:C	1:C:250:LEU:CD1	2.90	0.44
1:C:313:MET:HB3	1:C:313:MET:HE3	1.33	0.44
1:C:399:VAL:CG1	1:C:400:LEU:CD2	2.88	0.44
1:C:722:GLU:O	1:C:723:ASP:C	2.57	0.44
1:C:1026:PHE:CD2	1:C:1026:PHE:N	2.74	0.44
1:A:66:GLU:CD	1:A:818:ARG:CD	2.87	0.44
1:A:176:GLN:HG3	2:A:2002:DM2:O5'	2.18	0.44
1:A:246:PHE:O	1:A:249:ILE:CD1	2.64	0.44
1:A:736:ALA:HA	1:A:741:VAL:HG11	2.00	0.44
1:A:999:ALA:O	1:A:1003:VAL:HB	2.18	0.44
1:B:119:PRO:HG2	1:B:122:VAL:HG21	1.98	0.44
1:B:398:MET:H	1:B:398:MET:HG2	1.35	0.44
1:B:828:LEU:HD13	1:B:828:LEU:HA	1.50	0.44
1:B:897:ILE:O	1:B:900:SER:OG	2.26	0.44
1:C:122:VAL:H	1:C:122:VAL:HG23	1.45	0.44
1:C:156:ASP:OD2	1:C:182:TYR:CD1	2.70	0.44
1:C:439:GLN:CG	1:C:440:GLY:H	2.29	0.44
1:C:703:LEU:C	1:C:706:ALA:HB3	2.41	0.44
1:C:721:LEU:HD12	1:C:815:ARG:CB	2.47	0.44
1:C:740:GLY:C	1:C:793:ALA:HB1	2.43	0.44
1:C:953:MET:HE3	1:C:963:ALA:CB	2.47	0.44
1:A:11:PHE:CE2	1:B:890:ALA:HB1	2.53	0.44
1:A:155:SER:HA	1:A:287:SER:OG	2.17	0.44
1:A:156:ASP:HA	1:A:181:GLN:HA	2.00	0.44
1:A:293:LEU:HB3	1:A:294:ALA:H	1.60	0.44
1:A:405:LEU:O	1:A:406:VAL:O	2.35	0.44
1:A:493:CYS:C	1:A:495:THR:N	2.75	0.44
1:A:723:ASP:N	1:A:723:ASP:OD2	2.49	0.44
1:A:729:ILE:O	1:A:730:ASP:HB2	2.18	0.44
1:A:920:GLY:C	1:A:921:LEU:HD23	2.42	0.44
1:A:946:VAL:O	1:A:946:VAL:CG1	2.66	0.44
1:A:1024:VAL:HG12	1:A:1025:PHE:N	2.31	0.44
1:B:1:MET:H3	1:B:2:PRO:HD3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:111:LEU:HD12	1:B:111:LEU:HA	1.21	0.44
1:B:160:ALA:HB2	1:B:181:GLN:CG	2.48	0.44
1:B:203:VAL:O	1:B:206:ALA:HB3	2.17	0.44
1:B:405:LEU:HD12	1:B:406:VAL:N	2.33	0.44
1:B:517:ASN:C	1:B:521:GLU:HG3	2.43	0.44
1:B:602:GLU:CD	1:B:650:ARG:NH1	2.75	0.44
1:B:640:GLU:N	1:B:640:GLU:OE1	2.51	0.44
1:B:684:LEU:HD21	1:B:855:VAL:CG1	2.48	0.44
1:C:146:ASP:C	1:C:148:THR:N	2.76	0.44
1:C:358:PHE:N	1:C:358:PHE:CD1	2.85	0.44
1:C:379:THR:O	1:C:380:PHE:C	2.61	0.44
1:C:453:PHE:O	1:C:456:MET:HG2	2.17	0.44
1:C:541:TYR:N	1:C:541:TYR:CD1	2.85	0.44
1:C:561:SER:HA	1:C:923:ASN:CB	2.47	0.44
1:C:721:LEU:O	1:C:722:GLU:C	2.61	0.44
1:C:953:MET:CG	1:C:963:ALA:CB	2.96	0.44
1:C:983:ILE:CG1	1:C:1011:MET:HB3	2.47	0.44
1:C:989:LEU:HD13	1:C:1003:VAL:HB	1.99	0.44
1:A:262:LEU:C	1:A:264:ASP:H	2.25	0.44
1:A:354:VAL:O	1:A:354:VAL:HG12	2.17	0.44
1:A:407:ASP:HA	1:A:978:THR:CG2	2.48	0.44
1:A:611:ALA:O	1:A:612:VAL:HG13	2.18	0.44
1:A:643:LYS:O	1:A:646:ALA:HB3	2.18	0.44
1:A:705:GLU:HG3	1:A:847:LEU:CD1	2.48	0.44
1:A:901:VAL:CG1	1:A:942:ALA:HB1	2.46	0.44
1:B:179:GLY:H	1:B:277:ILE:CG2	2.31	0.44
1:B:355:MET:HG2	1:B:410:ILE:HD11	2.00	0.44
1:B:482:VAL:HG13	1:B:483:LEU:N	2.31	0.44
1:B:588:GLN:OE1	1:B:588:GLN:HA	2.18	0.44
1:B:775:SER:HB3	1:B:780:ARG:HG2	2.00	0.44
1:B:997:SER:O	1:B:999:ALA:N	2.51	0.44
1:C:43:VAL:HG21	1:C:94:PHE:CE1	2.50	0.44
1:C:78:MET:HE3	1:C:78:MET:HB3	1.80	0.44
1:C:218:GLN:HA	1:C:234:ILE:HG13	2.00	0.44
1:C:519:MET:CG	1:C:520:PHE:N	2.81	0.44
1:C:574:THR:HG23	1:C:664:PHE:C	2.43	0.44
1:C:775:SER:HB3	1:C:780:ARG:CD	2.41	0.44
1:C:972:LEU:HD23	1:C:972:LEU:C	2.43	0.44
1:A:27:ILE:HG22	1:A:28:LEU:HD12	2.00	0.44
1:A:99:ASP:HB3	1:A:102:ILE:HB	2.00	0.44
1:A:176:GLN:HE22	2:A:2002:DM2:C10	2.19	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:211:ASN:CG	1:A:211:ASN:O	2.61	0.44
1:A:786:ILE:CG2	1:A:801:PHE:CD2	3.00	0.44
1:A:966:ASP:HA	1:A:969:ARG:CB	2.45	0.44
1:B:36:PRO:HD2	1:B:38:ILE:HD11	2.00	0.44
1:B:115:MET:HE3	1:B:127:VAL:HB	1.87	0.44
1:B:178:PHE:CA	1:B:277:ILE:HG21	2.48	0.44
1:B:189:ASN:HB2	1:B:265:VAL:O	2.18	0.44
1:B:199:THR:O	1:B:203:VAL:HG23	2.18	0.44
1:B:244:GLU:O	1:B:245:GLU:C	2.59	0.44
1:B:905:VAL:C	1:B:907:LEU:N	2.76	0.44
1:C:65:ILE:CG2	1:C:90:ILE:CD1	2.95	0.44
1:C:102:ILE:HA	1:C:102:ILE:HD12	1.61	0.44
1:C:398:MET:HE3	1:C:473:THR:CG2	2.48	0.44
1:C:438:ILE:HB	1:C:439:GLN:H	1.37	0.44
1:C:449:LEU:C	1:C:452:VAL:HG23	2.42	0.44
1:C:471:SER:O	1:C:472:ILE:C	2.59	0.44
1:C:528:THR:HA	1:C:531:VAL:CG2	2.48	0.44
1:C:947:GLU:HB3	1:C:948:PHE:HD1	1.82	0.44
1:A:112:GLN:CD	1:C:112:GLN:NE2	2.76	0.43
1:A:134:SER:HB2	2:A:2002:DM2:C4	2.48	0.43
1:A:223:PRO:HD3	1:B:275:TYR:CB	2.47	0.43
1:A:549:VAL:O	1:A:550:VAL:C	2.60	0.43
1:A:631:LEU:HD11	1:A:644:VAL:HG22	2.00	0.43
1:A:822:LEU:HB3	1:A:823:PRO:HD2	1.86	0.43
1:B:195:LYS:O	1:B:196:PHE:CD2	2.71	0.43
1:B:213:GLN:HE21	1:B:213:GLN:HB2	1.61	0.43
1:C:952:LEU:O	1:C:958:LYS:HB2	2.17	0.43
1:C:991:ILE:O	1:C:992:SER:C	2.61	0.43
1:A:44:THR:CA	1:A:91:THR:HG23	2.48	0.43
1:A:135:SER:O	1:A:136:PHE:CG	2.71	0.43
1:A:388:PHE:HD1	1:A:388:PHE:N	2.12	0.43
1:A:685:ILE:HG22	1:A:819:TYR:HB3	1.99	0.43
1:B:291:ILE:HD12	1:B:306:ILE:HD13	2.00	0.43
1:B:394:THR:O	1:B:395:MET:C	2.60	0.43
1:B:435:MET:C	1:B:437:GLN:H	2.26	0.43
1:B:1016:VAL:HG12	1:B:1017:LEU:N	2.34	0.43
1:C:193:LEU:CB	1:C:198:LEU:O	2.64	0.43
1:C:513:PHE:HB3	1:C:517:ASN:CB	2.48	0.43
1:C:817:GLU:HB3	1:C:824:SER:HB3	2.00	0.43
1:A:31:PRO:HB2	1:A:389:SER:CB	2.34	0.43
1:A:69:MET:HA	1:A:69:MET:HE2	1.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:680:PHE:CE1	1:A:829:GLY:N	2.84	0.43
1:A:865:GLN:NE2	1:A:865:GLN:CA	2.79	0.43
1:A:1000:GLN:O	1:A:1002:ALA:N	2.50	0.43
1:B:111:LEU:HG	1:B:115:MET:HG2	2.01	0.43
1:B:115:MET:HE3	1:B:127:VAL:CG2	2.35	0.43
1:B:196:PHE:CZ	1:B:260:VAL:HG13	2.53	0.43
1:B:530:SER:O	1:B:534:ILE:CD1	2.65	0.43
1:C:43:VAL:H	1:C:43:VAL:HG22	1.22	0.43
1:C:152:GLU:CD	1:C:152:GLU:N	2.62	0.43
1:C:218:GLN:HE21	1:C:231:ASN:HD21	1.65	0.43
1:C:280:GLU:H	1:C:280:GLU:HG2	1.58	0.43
1:C:291:ILE:HD12	1:C:306:ILE:HD13	2.00	0.43
1:C:403:GLY:C	1:C:405:LEU:H	2.25	0.43
1:C:455:PRO:HG3	1:C:880:SER:CB	2.48	0.43
1:C:601:LYS:HG2	1:C:602:GLU:CG	2.48	0.43
1:C:857:TYR:CD1	1:C:858:ASP:N	2.86	0.43
1:C:897:ILE:HG22	1:C:946:VAL:HG11	2.01	0.43
1:C:906:PRO:O	1:C:909:VAL:HG12	2.17	0.43
1:A:112:GLN:HG3	1:C:112:GLN:HE22	1.60	0.43
1:A:399:VAL:C	1:A:401:ALA:N	2.75	0.43
1:A:607:GLU:HG3	1:A:632:LYS:HA	1.99	0.43
1:B:5:PHE:HD2	1:B:12:ALA:HB2	1.84	0.43
1:B:77:TYR:CD1	1:B:77:TYR:C	2.97	0.43
1:B:189:ASN:HB3	1:B:192:GLU:CG	2.48	0.43
1:B:446:ALA:HB2	1:B:478:MET:HE2	2.01	0.43
1:B:619:GLY:H	1:B:721:LEU:HD11	1.83	0.43
1:B:654:ALA:O	1:B:656:SER:N	2.51	0.43
1:C:105:VAL:O	1:C:106:GLN:C	2.62	0.43
1:C:140:VAL:O	1:C:140:VAL:CG1	2.47	0.43
1:C:143:ILE:HD11	1:C:284:GLN:HG2	2.00	0.43
1:C:177:LEU:HD13	1:C:179:GLY:C	2.44	0.43
1:C:238:THR:HG22	1:C:239:ARG:C	2.42	0.43
1:C:736:ALA:HB1	1:C:741:VAL:HG23	2.00	0.43
1:A:241:THR:O	1:A:242:SER:HB3	2.17	0.43
1:A:298:ASN:ND2	1:A:300:LEU:CA	2.81	0.43
1:A:702:LEU:HD12	1:A:702:LEU:HA	1.01	0.43
1:A:952:LEU:HB2	1:A:953:MET:H	1.59	0.43
1:A:955:LYS:HA	1:A:955:LYS:HD3	1.62	0.43
1:B:57:VAL:HG11	1:B:86:GLY:HA2	2.01	0.43
1:B:63:GLN:O	1:B:66:GLU:HB2	2.19	0.43
1:B:136:PHE:CE1	1:B:617:PHE:CZ	3.06	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:187:TRP:CZ3	1:B:774:MET:HE2	2.43	0.43
1:B:192:GLU:C	1:B:265:VAL:HG12	2.42	0.43
1:B:335:ILE:HA	1:B:335:ILE:HD12	1.66	0.43
1:B:371:ALA:O	1:B:374:VAL:N	2.52	0.43
1:B:545:TYR:HB3	1:B:546:LEU:H	1.63	0.43
1:B:568:ASP:OD1	1:B:644:VAL:CB	2.60	0.43
1:B:634:TRP:HA	1:B:634:TRP:HE3	1.83	0.43
1:B:699:ARG:O	1:B:702:LEU:HB3	2.19	0.43
1:B:904:VAL:C	1:B:907:LEU:HG	2.43	0.43
1:C:63:GLN:O	1:C:64:VAL:O	2.36	0.43
1:C:399:VAL:CG1	1:C:400:LEU:HD22	2.46	0.43
1:C:549:VAL:C	1:C:551:GLY:N	2.75	0.43
1:A:372:VAL:O	1:A:373:PRO:C	2.62	0.43
1:A:702:LEU:C	1:A:702:LEU:CD1	2.77	0.43
1:A:778:LYS:CB	1:A:779:TYR:CD1	3.01	0.43
1:A:982:PHE:CD1	1:A:1011:MET:SD	3.12	0.43
1:B:74:ASN:O	1:B:95:GLU:N	2.44	0.43
1:B:172:VAL:O	1:B:173:GLY:C	2.61	0.43
1:B:225:VAL:CG1	1:C:777:ALA:HB1	2.49	0.43
1:B:248:LYS:HG3	1:B:248:LYS:O	2.19	0.43
1:B:372:VAL:CG1	1:B:402:ILE:HD11	2.44	0.43
1:B:467:TYR:O	1:B:470:PHE:HB2	2.18	0.43
1:B:531:VAL:HG21	1:B:968:VAL:HG11	1.99	0.43
1:B:637:ARG:HH11	1:B:637:ARG:HD3	1.66	0.43
1:B:751:GLY:C	1:B:753:ALA:N	2.70	0.43
1:B:925:VAL:O	1:B:926:TYR:C	2.61	0.43
1:B:940:LYS:O	1:B:941:ASN:O	2.36	0.43
1:C:808:ARG:H	1:C:808:ARG:HG3	1.41	0.43
1:A:28:LEU:N	1:A:28:LEU:HD12	2.33	0.43
1:A:182:TYR:CB	1:A:270:LEU:HD13	2.32	0.43
1:A:386:PHE:O	1:A:388:PHE:CE1	2.69	0.43
1:A:545:TYR:HE1	1:A:907:LEU:CD2	2.31	0.43
1:A:593:GLU:O	1:A:595:THR:N	2.51	0.43
1:A:882:ILE:CG2	1:A:883:VAL:N	2.82	0.43
1:A:903:LEU:HD12	1:A:1025:PHE:HD1	1.84	0.43
1:A:912:ALA:N	1:A:1010:GLY:CA	2.80	0.43
1:B:169:THR:HB	1:B:172:VAL:HG21	2.01	0.43
1:B:211:ASN:O	1:B:211:ASN:ND2	2.51	0.43
1:B:528:THR:HG21	1:B:969:ARG:HE	1.82	0.43
1:B:712:MET:HB3	1:B:713:LEU:HD23	2.00	0.43
1:B:762:PHE:CZ	1:B:764:ASP:HB2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:828:LEU:HB3	1:B:829:GLY:H	1.65	0.43
1:B:897:ILE:O	1:B:898:PRO:C	2.60	0.43
1:B:984:LEU:HD13	1:B:987:MET:HB2	2.01	0.43
1:C:10:ILE:HG22	1:C:10:ILE:O	2.19	0.43
1:C:30:LEU:HD21	1:C:384:ALA:CA	2.44	0.43
1:C:139:VAL:HB	1:C:327:TYR:O	2.19	0.43
1:C:197:GLN:C	1:C:798:MET:CE	2.92	0.43
1:C:406:VAL:O	1:C:407:ASP:C	2.60	0.43
1:C:556:PHE:HD1	1:C:913:LEU:HD21	1.82	0.43
1:C:695:LEU:HD13	1:C:695:LEU:O	2.19	0.43
1:C:717:ARG:O	1:C:717:ARG:HG2	2.17	0.43
1:A:167:SER:C	1:A:172:VAL:HG11	2.44	0.43
1:A:200:PRO:O	1:A:204:ILE:N	2.44	0.43
1:A:407:ASP:C	1:A:407:ASP:OD1	2.60	0.43
1:A:445:ILE:HG23	1:A:943:ILE:HD12	2.01	0.43
1:A:456:MET:O	1:A:467:TYR:HB3	2.18	0.43
1:A:683:GLU:OE1	1:A:826:GLU:CG	2.66	0.43
1:A:733:GLN:HE22	1:A:743:ILE:HG21	1.82	0.43
1:B:141:GLY:O	1:B:142:VAL:HG22	2.18	0.43
1:B:310:LEU:O	1:B:314:GLU:OE2	2.37	0.43
1:B:905:VAL:CG1	1:B:935:ILE:HG23	2.39	0.43
1:C:52:ALA:O	1:C:53:ASP:OD1	2.37	0.43
1:C:65:ILE:HG22	1:C:90:ILE:HD13	2.01	0.43
1:C:143:ILE:HA	1:C:286:ALA:CB	2.49	0.43
1:C:168:ARG:O	1:C:169:THR:HA	2.19	0.43
1:C:336:SER:OG	1:C:337:ILE:N	2.52	0.43
1:C:400:LEU:HG	1:C:929:VAL:CG1	2.48	0.43
1:C:423:GLU:C	1:C:425:LEU:N	2.77	0.43
1:C:488:LEU:HD12	1:C:488:LEU:HA	1.81	0.43
1:C:644:VAL:O	1:C:645:GLU:C	2.61	0.43
1:C:727:PHE:CZ	1:C:783:PRO:HB2	2.53	0.43
1:C:924:ASP:O	1:C:927:PHE:N	2.52	0.43
1:C:1019:ILE:HG13	1:C:1020:PHE:CD1	2.53	0.43
1:A:60:THR:HG21	1:A:119:PRO:CG	2.24	0.43
1:A:103:ALA:HB3	1:A:104:GLN:H	1.34	0.43
1:A:160:ALA:O	1:A:161:ASN:OD1	2.37	0.43
1:A:177:LEU:HD23	1:A:178:PHE:N	2.34	0.43
1:A:309:GLU:O	1:A:310:LEU:C	2.60	0.43
1:A:408:ASP:OD1	1:A:940:LYS:NZ	2.33	0.43
1:A:655:PHE:HD2	1:A:663:VAL:CG1	2.31	0.43
1:A:685:ILE:HD13	1:A:856:GLY:C	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:699:ARG:HE	1:A:699:ARG:HB3	1.43	0.43
1:A:940:LYS:O	1:A:940:LYS:HG2	2.19	0.43
1:B:49:TYR:HA	1:B:50:PRO:HD3	1.55	0.43
1:B:235:ILE:HD12	1:C:726:GLN:CD	2.40	0.43
1:B:416:VAL:HG22	1:B:434:SER:HB2	2.01	0.43
1:B:644:VAL:HG11	1:B:667:ASN:CG	2.44	0.43
1:B:793:ALA:HB2	1:B:799:VAL:CG2	2.49	0.43
1:C:182:TYR:O	1:C:769:LYS:HD2	2.18	0.43
1:C:190:PRO:HG3	1:C:789:TRP:CE2	2.50	0.43
1:C:280:GLU:CA	1:C:284:GLN:O	2.65	0.43
1:C:339:GLU:OE2	1:C:339:GLU:CA	2.63	0.43
1:C:785:ASP:C	1:C:787:GLY:N	2.76	0.43
1:A:193:LEU:CB	1:A:265:VAL:HG22	2.49	0.43
1:A:344:LEU:HD22	1:A:402:ILE:CD1	2.47	0.43
1:A:414:GLU:OE1	1:A:414:GLU:C	2.62	0.43
1:A:453:PHE:CE2	1:A:932:LEU:HB3	2.54	0.43
1:A:573:MET:O	1:A:665:ALA:CA	2.56	0.43
1:A:616:GLY:C	1:A:618:ALA:N	2.71	0.43
1:A:666:PHE:HD2	1:A:666:PHE:H	1.64	0.43
1:A:914:LEU:HD12	1:A:918:PHE:CE1	2.53	0.43
1:B:252:LYS:HB3	1:B:260:VAL:CG2	2.49	0.43
1:B:256:ASP:OD1	1:B:256:ASP:N	2.45	0.43
1:B:293:LEU:HA	1:B:293:LEU:HD23	1.74	0.43
1:B:328:ASP:OD2	1:B:328:ASP:C	2.62	0.43
1:B:355:MET:HE2	1:B:369:THR:HG22	2.00	0.43
1:B:416:VAL:HG11	1:B:431:THR:HG22	2.00	0.43
1:B:492:LEU:O	1:B:496:MET:CB	2.66	0.43
1:B:680:PHE:O	1:B:828:LEU:CD1	2.59	0.43
1:B:709:HIS:N	1:B:710:PRO:HD3	2.33	0.43
1:C:3:ASN:HD21	1:C:432:ARG:HG3	1.80	0.43
1:C:6:ILE:HG13	1:C:494:ALA:CB	2.49	0.43
1:C:234:ILE:HD13	1:C:234:ILE:HG21	1.84	0.43
1:C:256:ASP:OD1	1:C:256:ASP:N	2.47	0.43
1:C:298:ASN:O	1:C:299:ALA:C	2.61	0.43
1:C:322:LYS:CB	1:C:322:LYS:NZ	2.79	0.43
1:C:386:PHE:HD1	1:C:386:PHE:H	1.64	0.43
1:C:634:TRP:O	1:C:635:ALA:C	2.62	0.43
1:C:1029:VAL:HB	1:C:1030:ARG:H	1.46	0.43
1:A:219:LEU:CD2	1:B:781:MET:O	2.59	0.42
1:A:293:LEU:O	1:A:294:ALA:HB2	2.18	0.42
1:A:488:LEU:O	1:A:492:LEU:CB	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:599:LEU:HG	1:A:606:VAL:HG11	2.01	0.42
1:A:973:ARG:O	1:A:976:LEU:N	2.52	0.42
1:B:172:VAL:HG22	1:B:306:ILE:HD11	2.01	0.42
1:B:185:ARG:NH1	1:B:772:TYR:CB	2.82	0.42
1:B:240:LEU:HD13	1:B:246:PHE:CE2	2.52	0.42
1:B:289:LEU:O	1:B:291:ILE:N	2.51	0.42
1:B:399:VAL:HG11	1:B:989:LEU:HD13	2.01	0.42
1:B:489:THR:N	1:B:490:PRO:CD	2.78	0.42
1:B:515:TRP:O	1:B:519:MET:HG3	2.19	0.42
1:B:665:ALA:C	1:B:666:PHE:CD2	2.97	0.42
1:B:873:ALA:O	1:B:876:LEU:N	2.52	0.42
1:B:926:TYR:CD1	1:B:1003:VAL:HG23	2.54	0.42
1:C:185:ARG:C	1:C:186:ILE:HG12	2.44	0.42
1:C:314:GLU:HA	1:C:317:PHE:CZ	2.54	0.42
1:C:391:ASN:O	1:C:394:THR:HG22	2.19	0.42
1:C:450:SER:O	1:C:453:PHE:N	2.52	0.42
1:C:650:ARG:O	1:C:653:ARG:CG	2.67	0.42
1:C:945:ILE:HG12	1:C:971:ARG:CG	2.49	0.42
1:A:76:MET:HE2	1:A:95:GLU:OE1	2.19	0.42
1:A:538:THR:O	1:A:540:ARG:N	2.51	0.42
1:A:705:GLU:HB3	1:A:706:ALA:H	1.35	0.42
1:A:735:LYS:O	1:A:736:ALA:C	2.55	0.42
1:A:872:GLN:O	1:A:873:ALA:C	2.62	0.42
1:A:1009:GLY:O	1:A:1012:VAL:HB	2.19	0.42
1:B:382:VAL:HG13	1:B:386:PHE:CE1	2.54	0.42
1:B:549:VAL:HG12	1:B:550:VAL:CG2	2.49	0.42
1:B:773:VAL:O	1:B:773:VAL:CG1	2.63	0.42
1:B:957:GLY:C	1:B:958:LYS:O	2.62	0.42
1:C:73:ASP:HB2	1:C:106:GLN:OE1	2.18	0.42
1:C:99:ASP:C	1:C:101:ASP:N	2.77	0.42
1:C:261:LEU:HB2	1:C:264:ASP:OD2	2.19	0.42
1:C:345:VAL:HG22	1:C:346:GLU:N	2.34	0.42
1:C:474:ILE:H	1:C:474:ILE:HG12	1.68	0.42
1:C:818:ARG:CA	1:C:824:SER:HB3	2.50	0.42
1:C:989:LEU:HA	1:C:1000:GLN:HB3	2.01	0.42
1:A:122:VAL:O	1:A:123:GLN:C	2.62	0.42
1:A:157:TYR:CE2	1:A:321:LEU:HD22	2.54	0.42
1:A:265:VAL:CG1	1:A:265:VAL:O	2.66	0.42
1:A:307:ARG:NH1	1:A:307:ARG:CG	2.82	0.42
1:A:346:GLU:O	1:A:348:ILE:N	2.52	0.42
1:A:348:ILE:C	1:A:350:LEU:H	2.26	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:689:GLY:O	1:A:691:GLY:N	2.51	0.42
1:A:846:GLN:O	1:A:849:SER:CB	2.62	0.42
1:A:891:LEU:C	1:A:892:TYR:CD2	2.97	0.42
1:A:925:VAL:O	1:A:926:TYR:C	2.61	0.42
1:A:1020:PHE:CD2	1:A:1020:PHE:N	2.83	0.42
1:B:68:ASN:O	1:B:110:LYS:HD2	2.19	0.42
1:B:111:LEU:HD21	1:B:115:MET:CE	2.47	0.42
1:B:157:TYR:CA	1:B:161:ASN:HD22	2.21	0.42
1:B:247:GLY:CA	1:B:268:ILE:HD13	2.40	0.42
1:B:249:ILE:HD12	1:B:262:LEU:CD1	2.42	0.42
1:B:355:MET:O	1:B:365:THR:HG23	2.19	0.42
1:B:456:MET:HG3	1:B:457:ALA:H	1.84	0.42
1:B:574:THR:OG1	1:B:665:ALA:HB2	2.20	0.42
1:B:597:TYR:CB	1:B:655:PHE:CE1	3.02	0.42
1:B:749:THR:O	1:B:750:LEU:C	2.59	0.42
1:B:762:PHE:HE1	1:B:764:ASP:HB2	1.81	0.42
1:C:131:LYS:H	1:C:131:LYS:HG2	1.48	0.42
1:C:143:ILE:HA	1:C:286:ALA:HB2	2.01	0.42
1:C:172:VAL:HG11	1:C:175:VAL:CG2	2.50	0.42
1:C:454:VAL:HG13	1:C:454:VAL:O	2.18	0.42
1:C:459:PHE:CZ	1:C:467:TYR:CD1	3.07	0.42
1:C:595:THR:CG2	1:C:609:VAL:HG12	2.46	0.42
1:C:727:PHE:CZ	1:C:783:PRO:HB3	2.53	0.42
1:C:820:ASN:C	1:C:822:LEU:H	2.27	0.42
1:C:888:LEU:HD22	1:C:901:VAL:HG21	2.01	0.42
1:A:6:ILE:HA	1:A:491:ALA:HB2	2.02	0.42
1:A:7:ASP:O	1:A:9:PRO:CD	2.46	0.42
1:A:170:SER:O	1:A:170:SER:OG	2.18	0.42
1:A:620:ARG:H	1:A:620:ARG:HD2	1.84	0.42
1:A:735:LYS:O	1:A:738:ALA:HB3	2.19	0.42
1:A:890:ALA:HB2	1:C:11:PHE:HA	2.00	0.42
1:B:172:VAL:HG13	1:B:291:ILE:HG23	2.00	0.42
1:B:204:ILE:O	1:B:205:THR:C	2.62	0.42
1:B:225:VAL:CG1	1:C:777:ALA:CB	2.98	0.42
1:B:351:VAL:CG1	1:B:981:ALA:HB1	2.46	0.42
1:B:406:VAL:O	1:B:407:ASP:C	2.61	0.42
1:B:435:MET:O	1:B:437:GLN:N	2.52	0.42
1:B:552:MET:HG3	1:B:909:VAL:O	2.20	0.42
1:B:572:PHE:CD1	1:B:573:MET:N	2.88	0.42
1:C:41:PRO:HD2	1:C:95:GLU:O	2.20	0.42
1:C:413:VAL:HG12	1:C:414:GLU:H	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:762:PHE:H	1:C:771:VAL:HG23	1.83	0.42
1:A:25:LEU:CD1	1:A:26:ALA:N	2.82	0.42
1:A:208:LYS:CE	1:A:759:VAL:CG1	2.96	0.42
1:A:611:ALA:HB1	1:A:627:ALA:HB2	2.01	0.42
1:B:14:VAL:O	1:B:15:ILE:C	2.62	0.42
1:B:45:ILE:HG22	1:B:46:SER:N	2.34	0.42
1:B:351:VAL:O	1:B:351:VAL:HG12	2.20	0.42
1:B:363:ARG:O	1:B:363:ARG:CG	2.66	0.42
1:B:404:LEU:CD2	1:B:449:LEU:HD11	2.43	0.42
1:B:696:THR:O	1:B:700:ASN:OD1	2.37	0.42
1:B:764:ASP:C	1:B:766:GLY:N	2.75	0.42
1:B:935:ILE:H	1:B:935:ILE:HG13	1.34	0.42
1:B:960:LEU:HD21	1:B:1030:ARG:HD3	2.00	0.42
1:C:33:ALA:HB2	1:C:298:ASN:ND2	2.34	0.42
1:C:58:GLN:HA	1:C:62:THR:HB	2.01	0.42
1:C:169:THR:O	1:C:172:VAL:HB	2.20	0.42
1:C:185:ARG:O	1:C:186:ILE:HG12	2.20	0.42
1:C:607:GLU:CD	1:C:632:LYS:HG2	2.45	0.42
1:C:724:THR:HA	1:C:725:PRO:HD2	1.43	0.42
1:C:820:ASN:C	1:C:822:LEU:N	2.76	0.42
1:C:964:THR:HG22	1:C:968:VAL:CG2	2.49	0.42
1:A:10:ILE:HD11	1:B:895:TRP:CG	2.55	0.42
1:A:171:GLY:O	1:A:294:ALA:HB2	2.19	0.42
1:A:375:VAL:CG1	1:A:405:LEU:CD1	2.98	0.42
1:A:470:PHE:HZ	1:A:926:TYR:CE2	2.32	0.42
1:A:529:ASP:HB2	1:A:530:SER:H	1.44	0.42
1:A:569:GLN:HA	1:A:634:TRP:HH2	1.85	0.42
1:A:577:GLN:NE2	1:A:624:THR:CG2	2.82	0.42
1:A:604:ASN:O	1:A:605:ASN:OD1	2.37	0.42
1:A:750:LEU:C	1:A:750:LEU:CD2	2.93	0.42
1:A:1027:VAL:C	1:A:1029:VAL:N	2.77	0.42
1:B:199:THR:HB	1:B:201:VAL:HG23	2.02	0.42
1:B:225:VAL:HG12	1:C:777:ALA:HB3	2.02	0.42
1:B:749:THR:O	1:B:753:ALA:HB2	2.20	0.42
1:B:964:THR:CG2	1:B:965:LEU:HD23	2.47	0.42
1:B:982:PHE:CE2	1:B:1007:VAL:HG13	2.55	0.42
1:C:156:ASP:O	1:C:159:ALA:HB3	2.18	0.42
1:C:169:THR:C	1:C:169:THR:CG2	2.92	0.42
1:C:207:ILE:HD13	1:C:207:ILE:HG21	1.90	0.42
1:C:563:PHE:CE2	1:C:564:LEU:CD1	3.03	0.42
1:C:607:GLU:N	1:C:630:SER:O	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:707:ALA:O	1:C:710:PRO:HD3	2.20	0.42
1:C:768:VAL:O	1:C:769:LYS:HG2	2.20	0.42
1:C:907:LEU:HD22	1:C:1017:LEU:HD23	2.01	0.42
1:A:72:ILE:HG13	1:A:107:VAL:CA	2.45	0.42
1:A:298:ASN:HD21	1:A:300:LEU:N	2.13	0.42
1:A:689:GLY:O	1:A:690:LEU:O	2.38	0.42
1:A:910:ILE:H	1:A:910:ILE:HG13	1.51	0.42
1:B:81:ASN:O	1:B:81:ASN:ND2	2.53	0.42
1:B:221:GLY:HA3	1:C:780:ARG:HH12	1.85	0.42
1:B:222:THR:OG1	1:B:223:PRO:HD3	2.20	0.42
1:B:578:LEU:CB	1:B:623:ASN:HB2	2.44	0.42
1:B:671:ILE:HB	1:B:672:VAL:H	1.52	0.42
1:B:741:VAL:CG2	1:B:799:VAL:HG21	2.50	0.42
1:C:37:THR:CG2	1:C:39:ALA:H	2.33	0.42
1:C:140:VAL:O	1:C:288:GLY:HA3	2.19	0.42
1:C:489:THR:N	1:C:490:PRO:HD2	2.34	0.42
1:C:575:MET:HE1	1:C:617:PHE:CD1	2.50	0.42
1:C:729:ILE:O	1:C:729:ILE:CG2	2.66	0.42
1:C:763:ILE:HG21	1:C:763:ILE:HD13	1.77	0.42
1:C:975:ILE:C	1:C:977:MET:H	2.28	0.42
1:C:991:ILE:O	1:C:992:SER:O	2.38	0.42
1:A:77:TYR:C	1:A:77:TYR:HD1	2.28	0.42
1:A:139:VAL:CG2	1:A:290:GLY:CA	2.92	0.42
1:A:300:LEU:HD13	1:A:334:LYS:HG2	2.02	0.42
1:A:844:MET:HE3	1:A:844:MET:CA	2.46	0.42
1:A:886:LEU:HD21	1:C:17:ILE:HG22	2.00	0.42
1:A:975:ILE:O	1:A:979:SER:HB2	2.20	0.42
1:B:314:GLU:C	1:B:316:PHE:H	2.28	0.42
1:B:332:PHE:HE1	1:B:568:ASP:O	2.02	0.42
1:B:444:GLY:O	1:B:445:ILE:C	2.61	0.42
1:B:593:GLU:OE1	1:B:659:LYS:HG3	2.19	0.42
1:B:791:VAL:C	1:B:798:MET:HE3	2.45	0.42
1:B:964:THR:O	1:B:965:LEU:HD22	2.19	0.42
1:C:354:VAL:C	1:C:355:MET:HE2	2.44	0.42
1:C:687:GLN:HE21	1:C:687:GLN:HB3	1.48	0.42
1:C:925:VAL:C	1:C:927:PHE:N	2.78	0.42
1:A:18:ILE:O	1:A:19:ILE:C	2.63	0.42
1:A:190:PRO:HG3	1:A:789:TRP:CE2	2.55	0.42
1:A:281:PHE:O	1:A:282:ASN:C	2.62	0.42
1:A:394:THR:CG2	1:A:395:MET:HE3	2.49	0.42
1:A:477:ALA:O	1:A:480:LEU:N	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:552:MET:SD	1:A:909:VAL:CB	3.07	0.42
1:A:584:GLN:O	1:A:586:ARG:N	2.52	0.42
1:A:732:ASP:C	1:A:732:ASP:OD1	2.62	0.42
1:A:767:ARG:HH22	1:B:67:GLN:NE2	2.16	0.42
1:A:777:ALA:HA	1:A:780:ARG:HG3	2.01	0.42
1:B:30:LEU:HD23	1:B:390:ILE:CD1	2.48	0.42
1:B:55:LYS:O	1:B:56:THR:C	2.61	0.42
1:B:157:TYR:C	1:B:161:ASN:HD22	2.28	0.42
1:B:349:ILE:HG22	1:B:350:LEU:HD22	2.02	0.42
1:B:554:TYR:C	1:B:556:PHE:N	2.78	0.42
1:B:578:LEU:HB2	1:B:623:ASN:CB	2.46	0.42
1:B:706:ALA:CA	1:B:713:LEU:HD12	2.50	0.42
1:B:778:LYS:HD3	1:B:778:LYS:H	1.85	0.42
1:B:1012:VAL:CG1	1:B:1013:THR:N	2.83	0.42
1:B:1022:VAL:N	1:B:1023:PRO:HD2	2.34	0.42
1:C:166:ILE:HG21	1:C:175:VAL:HG11	2.01	0.42
1:C:296:GLY:O	1:C:297:ALA:C	2.61	0.42
1:C:323:ILE:H	1:C:323:ILE:HG13	1.68	0.42
1:C:358:PHE:CD2	1:C:977:MET:HG2	2.55	0.42
1:C:358:PHE:CG	1:C:977:MET:HG2	2.55	0.42
1:C:894:SER:CB	1:C:897:ILE:CG1	2.98	0.42
1:C:926:TYR:HB3	1:C:1003:VAL:HG22	2.01	0.42
1:C:938:SER:C	1:C:941:ASN:HD21	2.26	0.42
1:C:978:THR:O	1:C:981:ALA:HB3	2.20	0.42
1:A:5:PHE:HE2	1:A:12:ALA:N	2.18	0.42
1:A:31:PRO:C	1:A:32:VAL:HG23	2.45	0.42
1:A:77:TYR:C	1:A:77:TYR:CB	2.78	0.42
1:A:412:VAL:HG11	1:A:435:MET:SD	2.60	0.42
1:A:466:ILE:H	1:A:466:ILE:HG13	1.66	0.42
1:A:533:GLY:O	1:A:534:ILE:C	2.62	0.42
1:A:552:MET:O	1:A:553:ALA:C	2.61	0.42
1:A:721:LEU:HB2	1:A:814:PRO:HG2	2.01	0.42
1:B:34:GLN:CG	1:B:35:TYR:N	2.83	0.42
1:B:40:PRO:HD2	1:B:673:GLU:OE2	2.20	0.42
1:B:64:VAL:C	1:B:66:GLU:N	2.77	0.42
1:B:196:PHE:CE1	1:B:260:VAL:HG22	2.55	0.42
1:B:518:ARG:C	1:B:520:PHE:N	2.78	0.42
1:B:574:THR:HB	1:B:665:ALA:CB	2.50	0.42
1:B:578:LEU:HA	1:B:579:PRO:HD3	1.79	0.42
1:B:687:GLN:HA	1:B:822:LEU:HD21	2.01	0.42
1:B:791:VAL:N	1:B:799:VAL:O	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:958:LYS:HB3	1:B:959:GLY:H	1.63	0.42
1:B:990:VAL:O	1:B:990:VAL:HG12	2.18	0.42
1:C:940:LYS:HG2	1:C:941:ASN:N	2.35	0.42
1:C:980:LEU:O	1:C:984:LEU:HB2	2.20	0.42
1:A:362:PHE:C	1:A:364:ALA:H	2.28	0.41
1:A:617:PHE:CD1	1:A:617:PHE:O	2.73	0.41
1:A:745:ASP:O	1:A:746:ILE:C	2.63	0.41
1:A:872:GLN:HG2	1:A:876:LEU:HG	2.02	0.41
1:B:35:TYR:CB	1:B:38:ILE:CD1	2.51	0.41
1:B:233:SER:C	1:B:234:ILE:HG13	2.45	0.41
1:B:428:LYS:C	1:B:432:ARG:HB2	2.42	0.41
1:B:559:LEU:CD2	1:B:923:ASN:CB	2.72	0.41
1:B:631:LEU:C	1:B:632:LYS:O	2.59	0.41
1:B:867:ARG:O	1:B:868:LEU:C	2.63	0.41
1:B:897:ILE:C	1:B:900:SER:HG	2.22	0.41
1:B:921:LEU:HD23	1:B:1002:ALA:HA	2.01	0.41
1:B:973:ARG:N	1:B:973:ARG:CD	2.80	0.41
1:C:115:MET:CE	1:C:115:MET:HA	2.49	0.41
1:C:170:SER:C	1:C:172:VAL:N	2.78	0.41
1:C:188:MET:HE1	1:C:200:PRO:CB	2.50	0.41
1:C:485:ALA:HA	1:C:489:THR:OG1	2.20	0.41
1:C:536:ARG:HH21	1:C:961:ILE:HD13	1.84	0.41
1:C:657:GLN:C	1:C:659:LYS:N	2.77	0.41
1:C:719:ASN:OD1	1:C:719:ASN:N	2.53	0.41
1:C:983:ILE:HG12	1:C:1011:MET:HG2	2.01	0.41
1:A:234:ILE:CG2	1:B:729:ILE:HB	2.49	0.41
1:A:298:ASN:ND2	1:A:298:ASN:O	2.31	0.41
1:A:353:LEU:C	1:A:355:MET:N	2.77	0.41
1:B:76:MET:SD	1:B:864:TYR:CE2	3.13	0.41
1:B:145:THR:HG23	1:B:320:GLY:HA2	2.02	0.41
1:B:314:GLU:O	1:B:316:PHE:N	2.53	0.41
1:B:559:LEU:HA	1:B:560:PRO:HD2	1.60	0.41
1:B:764:ASP:OD2	1:B:769:LYS:CE	2.69	0.41
1:B:833:PRO:CG	1:B:834:GLY:H	2.28	0.41
1:B:865:GLN:NE2	1:B:865:GLN:HA	2.35	0.41
1:B:972:LEU:HD22	1:B:972:LEU:HA	1.41	0.41
1:C:94:PHE:CE1	1:C:103:ALA:HB1	2.55	0.41
1:C:596:HIS:NE2	1:C:600:THR:HG21	2.35	0.41
1:C:931:LEU:HD23	1:C:932:LEU:HD23	2.02	0.41
1:C:962:GLU:HA	1:C:965:LEU:CB	2.49	0.41
1:A:184:MET:HB2	1:A:762:PHE:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:300:LEU:CD1	1:A:334:LYS:HG2	2.51	0.41
1:A:559:LEU:HG	1:A:923:ASN:H	1.86	0.41
1:A:698:ALA:O	1:A:699:ARG:C	2.63	0.41
1:A:851:LEU:HB3	1:A:852:PRO:HD2	2.02	0.41
1:B:426:PRO:CB	1:B:430:ALA:CB	2.80	0.41
1:B:442:LEU:CD1	1:B:486:LEU:HD13	2.49	0.41
1:B:467:TYR:O	1:B:468:ARG:C	2.64	0.41
1:B:696:THR:O	1:B:699:ARG:HB3	2.20	0.41
1:B:902:MET:C	1:B:904:VAL:N	2.78	0.41
1:B:925:VAL:CG1	1:B:926:TYR:N	2.83	0.41
1:C:8:ARG:HH11	1:C:8:ARG:CG	2.33	0.41
1:C:169:THR:CA	1:C:169:THR:CG2	2.86	0.41
1:C:172:VAL:HG11	1:C:175:VAL:HG22	2.03	0.41
1:C:178:PHE:CE2	1:C:615:PHE:CD1	3.08	0.41
1:C:337:ILE:HD11	1:C:392:THR:N	2.34	0.41
1:C:446:ALA:O	1:C:478:MET:HE3	2.20	0.41
1:C:578:LEU:HA	1:C:661:ALA:CB	2.45	0.41
1:C:713:LEU:HD13	1:C:713:LEU:HA	1.77	0.41
1:C:752:ALA:O	1:C:774:MET:HA	2.20	0.41
1:C:968:VAL:CG2	1:C:1023:PRO:HG3	2.50	0.41
1:C:983:ILE:HG23	1:C:1008:MET:CB	2.50	0.41
1:C:983:ILE:CG2	1:C:1008:MET:HG3	2.51	0.41
1:A:14:VAL:O	1:A:17:ILE:N	2.47	0.41
1:A:72:ILE:CG2	1:A:73:ASP:CG	2.93	0.41
1:A:76:MET:HG3	1:A:94:PHE:C	2.46	0.41
1:A:115:MET:HE2	1:A:115:MET:HB3	1.95	0.41
1:A:150:THR:N	1:A:153:ASP:OD2	2.47	0.41
1:A:228:GLN:C	1:A:229:GLN:HG3	2.44	0.41
1:A:314:GLU:H	1:A:315:PRO:HD3	1.82	0.41
1:A:335:ILE:O	1:A:336:SER:O	2.37	0.41
1:A:418:ARG:HH12	1:A:971:ARG:N	2.19	0.41
1:A:605:ASN:OD1	1:A:637:ARG:HG2	2.21	0.41
1:A:608:SER:O	1:A:608:SER:OG	2.36	0.41
1:A:720:GLY:C	1:A:721:LEU:HG	2.46	0.41
1:A:801:PHE:O	1:A:802:SER:C	2.62	0.41
1:A:962:GLU:HA	1:A:965:LEU:HD12	2.03	0.41
1:B:47:ALA:N	1:B:88:VAL:O	2.41	0.41
1:B:348:ILE:O	1:B:348:ILE:HG22	2.19	0.41
1:B:585:GLU:C	1:B:588:GLN:H	2.25	0.41
1:B:844:MET:HE3	1:B:844:MET:HB3	1.88	0.41
1:B:918:PHE:O	1:B:920:GLY:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:65:ILE:CG2	1:C:65:ILE:C	2.92	0.41
1:C:383:LEU:O	1:C:386:PHE:HB2	2.20	0.41
1:C:432:ARG:O	1:C:436:GLY:N	2.46	0.41
1:C:434:SER:O	1:C:438:ILE:CG1	2.60	0.41
1:C:748:THR:O	1:C:752:ALA:N	2.54	0.41
1:C:758:TYR:O	1:C:758:TYR:CG	2.71	0.41
1:C:837:THR:O	1:C:841:MET:CG	2.68	0.41
1:C:901:VAL:HG11	1:C:943:ILE:CG1	2.51	0.41
1:C:984:LEU:HD22	1:C:984:LEU:HA	1.96	0.41
1:A:55:LYS:HB3	1:A:59:ASP:OD2	2.21	0.41
1:A:56:THR:O	1:A:56:THR:CG2	2.69	0.41
1:A:240:LEU:HD12	1:A:245:GLU:HB3	2.02	0.41
1:A:394:THR:CG2	1:A:395:MET:HE2	2.36	0.41
1:A:456:MET:HE3	1:A:456:MET:HB3	1.53	0.41
1:A:790:TYR:HE1	1:A:800:PRO:HG3	1.85	0.41
1:A:905:VAL:HG13	1:A:935:ILE:CD1	2.49	0.41
1:A:930:GLY:O	1:A:931:LEU:C	2.61	0.41
1:A:986:VAL:HG12	1:A:991:ILE:HD12	1.96	0.41
1:A:1011:MET:O	1:A:1014:ALA:N	2.54	0.41
1:B:65:ILE:HG22	1:B:90:ILE:CD1	2.47	0.41
1:B:245:GLU:O	1:B:246:PHE:C	2.62	0.41
1:B:350:LEU:CD1	1:B:984:LEU:CD1	2.90	0.41
1:B:572:PHE:CD1	1:B:572:PHE:C	2.98	0.41
1:B:612:VAL:HG11	1:B:615:PHE:CD2	2.55	0.41
1:B:993:THR:O	1:B:993:THR:CG2	2.61	0.41
1:C:3:ASN:O	1:C:6:ILE:HG22	2.21	0.41
1:C:605:ASN:OD1	1:C:647:ILE:CD1	2.69	0.41
1:C:764:ASP:O	1:C:765:ARG:C	2.62	0.41
1:A:185:ARG:HG2	1:A:271:GLY:CA	2.38	0.41
1:A:690:LEU:CD1	1:A:855:VAL:H	2.34	0.41
1:A:865:GLN:O	1:A:866:GLU:C	2.63	0.41
1:A:944:LEU:HA	1:A:944:LEU:HD23	1.55	0.41
1:A:953:MET:HE3	1:A:953:MET:HB3	1.68	0.41
1:A:966:ASP:O	1:A:969:ARG:CB	2.60	0.41
1:A:971:ARG:NE	1:A:974:PRO:HG2	2.22	0.41
1:A:1023:PRO:O	1:A:1027:VAL:HG22	2.21	0.41
1:B:44:THR:HA	1:B:91:THR:HA	2.02	0.41
1:B:87:THR:HG22	1:B:88:VAL:N	2.35	0.41
1:B:280:GLU:OE2	1:B:283:GLY:HA2	2.20	0.41
1:B:421:ALA:CB	1:B:422:GLU:OE2	2.69	0.41
1:B:442:LEU:CA	1:B:445:ILE:HD12	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:702:LEU:HD12	1:B:702:LEU:O	2.20	0.41
1:B:780:ARG:CB	1:B:780:ARG:CZ	2.97	0.41
1:B:785:ASP:C	1:B:787:GLY:N	2.79	0.41
1:C:30:LEU:HB3	1:C:390:ILE:HG13	2.02	0.41
1:C:58:GLN:NE2	1:C:62:THR:HG21	2.33	0.41
1:C:182:TYR:O	1:C:769:LYS:CD	2.69	0.41
1:C:216:ALA:CB	1:C:234:ILE:HB	2.51	0.41
1:C:231:ASN:ND2	1:C:232:ALA:HA	2.35	0.41
1:C:367:ILE:HD11	1:C:496:MET:HG3	2.02	0.41
1:C:673:GLU:O	1:C:675:GLY:N	2.54	0.41
1:C:729:ILE:HG23	1:C:729:ILE:HD13	1.10	0.41
1:C:1012:VAL:HG12	1:C:1013:THR:N	2.35	0.41
1:A:1:MET:SD	1:A:487:ILE:HD11	2.61	0.41
1:A:20:MET:HE2	1:A:20:MET:HB3	1.99	0.41
1:A:20:MET:O	1:A:21:LEU:C	2.62	0.41
1:A:144:ASN:ND2	1:A:148:THR:H	2.18	0.41
1:A:167:SER:CA	1:A:172:VAL:HG11	2.48	0.41
1:A:178:PHE:C	2:A:2002:DM2:O14	2.63	0.41
1:A:684:LEU:O	1:A:684:LEU:HG	2.20	0.41
1:A:767:ARG:O	1:A:768:VAL:C	2.63	0.41
1:A:807:SER:O	1:A:808:ARG:HG2	2.21	0.41
1:B:201:VAL:HG23	1:B:749:THR:HG23	2.03	0.41
1:B:552:MET:O	1:B:553:ALA:C	2.64	0.41
1:B:643:LYS:O	1:B:644:VAL:C	2.64	0.41
1:B:792:ARG:HB2	1:B:798:MET:HE1	2.01	0.41
1:B:965:LEU:HD23	1:B:965:LEU:N	2.34	0.41
1:C:423:GLU:C	1:C:425:LEU:H	2.26	0.41
1:C:563:PHE:CE2	1:C:564:LEU:HD13	2.56	0.41
1:C:682:PHE:HD2	1:C:827:ILE:HD12	1.86	0.41
1:C:972:LEU:H	1:C:974:PRO:HD3	1.84	0.41
1:A:251:LEU:HD11	1:A:262:LEU:HD12	2.01	0.41
1:A:333:VAL:O	1:A:336:SER:HB2	2.21	0.41
1:A:647:ILE:O	1:A:647:ILE:HG22	2.21	0.41
1:A:648:THR:HG22	1:A:665:ALA:CB	2.51	0.41
1:A:706:ALA:CB	1:A:716:VAL:HG21	2.51	0.41
1:A:790:TYR:CE1	1:A:800:PRO:CB	3.04	0.41
1:B:34:GLN:HE22	1:B:332:PHE:HE2	1.68	0.41
1:B:103:ALA:O	1:B:107:VAL:CG2	2.61	0.41
1:B:302:THR:O	1:B:305:ALA:HB3	2.20	0.41
1:B:801:PHE:CD2	1:B:804:PHE:HE1	2.37	0.41
1:B:833:PRO:CG	1:B:834:GLY:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:892:TYR:O	1:B:894:SER:N	2.54	0.41
1:C:39:ALA:HA	1:C:40:PRO:HD3	1.97	0.41
1:C:207:ILE:HD12	1:C:773:VAL:HG12	2.01	0.41
1:C:472:ILE:O	1:C:473:THR:O	2.38	0.41
1:C:597:TYR:C	1:C:597:TYR:CD2	2.98	0.41
1:C:764:ASP:HB2	1:C:769:LYS:NZ	2.35	0.41
1:C:847:LEU:HD12	1:C:848:ALA:N	2.36	0.41
1:A:6:ILE:CG2	1:A:431:THR:HG21	2.50	0.41
1:A:49:TYR:C	1:A:49:TYR:HD2	2.29	0.41
1:A:61:VAL:CG2	1:A:118:LEU:HD21	2.23	0.41
1:A:64:VAL:CG1	1:A:64:VAL:HG21	2.47	0.41
1:A:90:ILE:CB	1:A:90:ILE:HD12	2.41	0.41
1:A:139:VAL:HG23	1:A:290:GLY:CA	2.39	0.41
1:A:375:VAL:HG22	1:A:484:VAL:HG12	1.84	0.41
1:A:375:VAL:HG21	1:A:481:SER:HA	2.03	0.41
1:A:467:TYR:OH	1:A:928:GLN:OE1	2.38	0.41
1:A:542:LEU:HD12	1:A:1028:VAL:HG11	2.02	0.41
1:A:607:GLU:HG3	1:A:632:LYS:CG	2.51	0.41
1:A:702:LEU:O	1:A:702:LEU:HD12	2.21	0.41
1:A:728:LYS:HE3	1:C:235:ILE:HB	2.02	0.41
1:A:755:GLY:C	1:A:756:GLY:O	2.64	0.41
1:A:768:VAL:H	1:A:768:VAL:HG22	0.89	0.41
1:A:948:PHE:HD2	1:A:951:ASP:OD1	2.03	0.41
1:B:30:LEU:HB3	1:B:390:ILE:HD12	2.03	0.41
1:B:75:LEU:O	1:B:75:LEU:HG	2.12	0.41
1:B:100:ALA:C	1:B:102:ILE:H	2.29	0.41
1:B:235:ILE:H	1:B:235:ILE:HG13	1.57	0.41
1:B:254:ASN:O	1:B:257:GLY:N	2.54	0.41
1:B:413:VAL:O	1:B:417:GLU:HB2	2.21	0.41
1:B:498:LYS:NZ	1:B:498:LYS:CB	2.82	0.41
1:B:594:VAL:HA	1:B:655:PHE:CE1	2.56	0.41
1:B:762:PHE:HD2	1:B:771:VAL:HG22	1.85	0.41
1:B:831:ALA:HB2	1:B:840:ALA:HB2	2.03	0.41
1:B:1012:VAL:HG12	1:B:1013:THR:H	1.85	0.41
1:C:100:ALA:O	1:C:101:ASP:C	2.64	0.41
1:C:345:VAL:O	1:C:349:ILE:HG12	2.20	0.41
1:C:530:SER:O	1:C:533:GLY:O	2.39	0.41
1:C:533:GLY:O	1:C:534:ILE:HG13	2.20	0.41
1:C:644:VAL:HG12	1:C:645:GLU:N	2.36	0.41
1:C:729:ILE:HD11	1:C:786:ILE:CD1	2.21	0.41
1:C:729:ILE:HD12	1:C:729:ILE:HG21	1.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:848:ALA:C	1:C:851:LEU:HD12	2.45	0.41
1:C:857:TYR:HE1	1:C:859:TRP:CZ3	2.39	0.41
1:C:959:GLY:O	1:C:960:LEU:C	2.64	0.41
1:C:972:LEU:C	1:C:974:PRO:HD2	2.46	0.41
1:C:987:MET:O	1:C:988:PRO:O	2.37	0.41
1:A:213:GLN:NE2	1:A:238:THR:HA	2.36	0.41
1:A:559:LEU:HD12	1:A:560:PRO:N	2.35	0.41
1:A:680:PHE:C	1:A:680:PHE:HD1	2.28	0.41
1:A:814:PRO:O	1:A:815:ARG:HB2	2.21	0.41
1:A:818:ARG:C	1:A:818:ARG:HG3	2.46	0.41
1:A:890:ALA:O	1:C:11:PHE:HD1	2.04	0.41
1:A:1000:GLN:C	1:A:1002:ALA:N	2.79	0.41
1:A:1004:GLY:C	1:A:1006:GLY:H	2.29	0.41
1:B:221:GLY:HA3	1:C:780:ARG:NH1	2.36	0.41
1:B:524:THR:HG22	1:B:528:THR:OG1	2.21	0.41
1:B:527:TYR:O	1:B:531:VAL:N	2.54	0.41
1:B:597:TYR:CB	1:B:655:PHE:HE1	2.34	0.41
1:B:695:LEU:HD22	1:B:825:MET:HG3	2.02	0.41
1:B:731:ILE:H	1:B:731:ILE:HG13	1.40	0.41
1:C:33:ALA:HB2	1:C:298:ASN:CG	2.46	0.41
1:C:52:ALA:O	1:C:86:GLY:CA	2.67	0.41
1:C:60:THR:C	1:C:61:VAL:HG23	2.46	0.41
1:C:82:SER:OG	1:C:88:VAL:HG13	2.21	0.41
1:C:200:PRO:C	1:C:202:ASP:H	2.29	0.41
1:C:358:PHE:O	1:C:973:ARG:CZ	2.69	0.41
1:C:409:ALA:C	1:C:410:ILE:O	2.65	0.41
1:C:699:ARG:HH11	1:C:699:ARG:HG3	1.68	0.41
1:C:743:ILE:O	1:C:746:ILE:N	2.54	0.41
1:C:908:GLY:O	1:C:911:GLY:N	2.52	0.41
1:C:1015:THR:HG22	1:C:1016:VAL:N	2.36	0.41
1:C:1026:PHE:O	1:C:1027:VAL:C	2.64	0.41
1:A:21:LEU:HA	1:A:21:LEU:HD23	1.11	0.40
1:A:44:THR:HA	1:A:91:THR:N	2.36	0.40
1:A:61:VAL:HG21	1:A:122:VAL:HG21	2.02	0.40
1:A:70:ASN:HA	1:C:168:ARG:HA	2.03	0.40
1:A:150:THR:O	1:A:151:GLN:C	2.64	0.40
1:A:184:MET:HB3	1:A:771:VAL:CG2	2.44	0.40
1:A:199:THR:CG2	1:A:792:ARG:N	2.78	0.40
1:A:275:TYR:CB	1:C:223:PRO:HG3	2.48	0.40
1:A:355:MET:HB3	1:A:365:THR:CG2	2.51	0.40
1:A:585:GLU:OE2	1:C:227:GLY:CA	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:598:TYR:CD1	1:A:629:VAL:CG2	2.95	0.40
1:A:961:ILE:CG2	1:A:965:LEU:HD11	2.25	0.40
1:A:1008:MET:HE3	1:A:1008:MET:HB3	1.97	0.40
1:B:26:ALA:O	1:B:30:LEU:CD2	2.69	0.40
1:B:54:ALA:O	1:B:57:VAL:HG23	2.21	0.40
1:B:106:GLN:O	1:B:109:ASN:N	2.54	0.40
1:B:376:LEU:HA	1:B:376:LEU:HD23	1.33	0.40
1:B:414:GLU:OE2	1:B:974:PRO:HD3	2.21	0.40
1:B:455:PRO:HG2	1:B:456:MET:N	2.36	0.40
1:B:568:ASP:HB3	1:B:634:TRP:CH2	2.56	0.40
1:B:769:LYS:HB3	1:B:770:LYS:H	1.75	0.40
1:C:4:PHE:CG	1:C:8:ARG:NH2	2.89	0.40
1:C:5:PHE:CE2	1:C:11:PHE:CE2	3.05	0.40
1:C:25:LEU:O	1:C:27:ILE:N	2.54	0.40
1:C:50:PRO:CD	1:C:125:GLN:HE22	2.34	0.40
1:C:378:GLY:O	1:C:382:VAL:HG23	2.21	0.40
1:C:419:VAL:HG12	1:C:430:ALA:CB	2.51	0.40
1:C:889:ALA:CB	1:C:894:SER:O	2.69	0.40
1:A:202:ASP:O	1:A:205:THR:O	2.39	0.40
1:A:228:GLN:NE2	1:B:781:MET:SD	2.94	0.40
1:A:346:GLU:C	1:A:348:ILE:N	2.79	0.40
1:A:513:PHE:CA	1:A:516:PHE:HD2	2.32	0.40
1:A:709:HIS:C	1:A:711:ASP:H	2.29	0.40
1:A:735:LYS:HA	1:A:738:ALA:HB3	2.03	0.40
1:A:973:ARG:N	1:A:974:PRO:HD2	2.36	0.40
1:B:178:PHE:HB3	1:B:277:ILE:HG21	2.03	0.40
1:B:449:LEU:HD12	1:B:478:MET:SD	2.61	0.40
1:B:576:VAL:HG13	1:B:663:VAL:HG22	2.03	0.40
1:B:733:GLN:HE21	1:B:733:GLN:HB3	1.50	0.40
1:B:920:GLY:O	1:B:921:LEU:C	2.65	0.40
1:B:965:LEU:CD2	1:B:965:LEU:N	2.85	0.40
1:C:1:MET:O	1:C:4:PHE:HB2	2.21	0.40
1:C:211:ASN:HD21	1:C:240:LEU:H	1.53	0.40
1:C:301:ASP:OD1	1:C:301:ASP:N	2.54	0.40
1:C:535:LEU:O	1:C:538:THR:O	2.39	0.40
1:C:713:LEU:O	1:C:831:ALA:CA	2.67	0.40
1:C:873:ALA:C	1:C:875:SER:H	2.29	0.40
1:A:119:PRO:CD	1:A:122:VAL:CG2	2.94	0.40
1:A:198:LEU:HD22	1:A:202:ASP:CB	2.52	0.40
1:A:261:LEU:HB2	1:A:264:ASP:OD2	2.21	0.40
1:A:787:GLY:O	1:A:788:ASP:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:869:SER:O	1:A:870:GLY:C	2.65	0.40
1:A:911:GLY:C	1:A:1010:GLY:HA2	2.45	0.40
1:B:35:TYR:HB3	1:B:38:ILE:HD11	0.68	0.40
1:B:151:GLN:HG3	1:B:152:GLU:N	2.35	0.40
1:B:155:SER:O	1:B:158:VAL:HG23	2.22	0.40
1:B:187:TRP:O	1:B:266:ALA:HA	2.22	0.40
1:B:420:MET:SD	1:B:424:GLY:O	2.80	0.40
1:B:435:MET:CE	1:B:438:ILE:HD11	2.51	0.40
1:B:946:VAL:HG22	1:B:1026:PHE:CZ	2.49	0.40
1:C:203:VAL:O	1:C:206:ALA:CB	2.66	0.40
1:C:309:GLU:O	1:C:312:LYS:CA	2.67	0.40
1:C:313:MET:O	1:C:313:MET:CG	2.68	0.40
1:C:322:LYS:HZ2	1:C:322:LYS:HG3	1.49	0.40
1:C:531:VAL:O	1:C:533:GLY:N	2.54	0.40
1:C:549:VAL:HG12	1:C:550:VAL:H	1.82	0.40
1:C:647:ILE:HG12	1:C:647:ILE:H	1.71	0.40
1:A:118:LEU:CD2	1:A:118:LEU:CA	2.98	0.40
1:A:156:ASP:O	1:A:159:ALA:HB3	2.22	0.40
1:A:222:THR:O	1:A:224:PRO:HD3	2.21	0.40
1:A:228:GLN:HG3	1:A:229:GLN:N	2.37	0.40
1:A:255:GLN:O	1:A:256:ASP:OD1	2.39	0.40
1:A:544:LEU:O	1:A:548:ILE:HD12	2.20	0.40
1:A:702:LEU:HD11	1:A:847:LEU:HB3	2.03	0.40
1:B:81:ASN:O	1:B:82:SER:O	2.39	0.40
1:B:348:ILE:HD13	1:B:348:ILE:HG21	1.84	0.40
1:B:694:LYS:CA	1:B:697:GLN:HE21	2.20	0.40
1:B:916:ALA:HB1	1:B:921:LEU:CB	2.52	0.40
1:C:60:THR:HG23	1:C:60:THR:C	2.46	0.40
1:C:65:ILE:HG22	1:C:66:GLU:H	1.79	0.40
1:C:154:ILE:HG22	1:C:287:SER:CB	2.52	0.40
1:C:193:LEU:HD12	1:C:193:LEU:H	1.87	0.40
1:C:545:TYR:O	1:C:546:LEU:C	2.64	0.40
1:C:567:GLU:OE2	1:C:996:GLY:HA2	2.22	0.40
1:C:686:ASP:HB3	1:C:823:PRO:HG2	2.04	0.40
1:C:721:LEU:O	1:C:721:LEU:HD23	2.22	0.40
1:C:841:MET:O	1:C:845:GLU:HG3	2.22	0.40
1:C:1016:VAL:C	1:C:1018:ALA:H	2.25	0.40
1:A:8:ARG:O	1:A:8:ARG:HG3	2.19	0.40
1:A:132:SER:O	1:A:133:SER:CB	2.68	0.40
1:A:323:ILE:HD13	1:A:323:ILE:N	2.17	0.40
1:A:583:THR:CA	1:A:622:GLN:HB2	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:705:GLU:HG2	1:A:847:LEU:HD22	2.03	0.40
1:A:999:ALA:HA	1:A:1002:ALA:HB3	2.04	0.40
1:B:53:ASP:HB2	1:B:56:THR:HB	2.03	0.40
1:B:188:MET:HB2	1:B:775:SER:HA	2.03	0.40
1:B:196:PHE:CD1	1:B:260:VAL:CG2	3.04	0.40
1:B:278:ILE:N	1:B:278:ILE:HD12	2.35	0.40
1:B:332:PHE:CZ	1:B:569:GLN:OE1	2.75	0.40
1:B:490:PRO:C	1:B:492:LEU:H	2.29	0.40
1:B:579:PRO:HD3	1:B:660:ASP:O	2.22	0.40
1:B:620:ARG:H	1:B:620:ARG:HG2	1.58	0.40
1:B:686:ASP:HB2	1:B:695:LEU:HD12	2.03	0.40
1:B:864:TYR:C	1:B:864:TYR:CD2	2.99	0.40
1:C:108:GLN:HE21	1:C:129:VAL:HG23	1.86	0.40
1:C:111:LEU:HA	1:C:111:LEU:HD12	1.01	0.40
1:C:189:ASN:HD21	1:C:191:ASN:ND2	2.19	0.40
1:C:210:GLN:OE1	1:C:250:LEU:O	2.38	0.40
1:C:342:LYS:O	1:C:346:GLU:CB	2.69	0.40
1:C:598:TYR:OH	1:C:665:ALA:HB2	2.21	0.40
1:C:623:ASN:O	1:C:624:THR:C	2.64	0.40
1:C:1030:ARG:HE	1:C:1030:ARG:HB2	1.43	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%)	530 (52%)	251 (25%)	237 (23%)	0	0
1	B	1018/1053 (97%)	558 (55%)	238 (23%)	222 (22%)	0	0
1	C	1018/1053 (97%)	565 (56%)	229 (22%)	224 (22%)	0	0
All	All	3054/3159 (97%)	1653 (54%)	718 (24%)	683 (22%)	0	0

All (683) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	19	ILE
1	A	54	ALA
1	A	63	GLN
1	A	64	VAL
1	A	66	GLU
1	A	67	GLN
1	A	73	ASP
1	A	74	ASN
1	A	76	MET
1	A	80	SER
1	A	90	ILE
1	A	96	SER
1	A	105	VAL
1	A	106	GLN
1	A	107	VAL
1	A	108	GLN
1	A	109	ASN
1	A	112	GLN
1	A	116	PRO
1	A	120	GLN
1	A	132	SER
1	A	137	LEU
1	A	165	ALA
1	A	186	ILE
1	A	188	MET
1	A	191	ASN
1	A	192	GLU
1	A	206	ALA
1	A	215	ALA
1	A	216	ALA
1	A	221	GLY
1	A	226	LYS
1	A	236	ALA
1	A	244	GLU
1	A	245	GLU
1	A	255	GLN
1	A	288	GLY
1	A	293	LEU
1	A	294	ALA
1	A	313	MET
1	A	318	PRO
1	A	336	SER

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Mol	Chain	Res	Type
1	A	337	ILE
1	A	344	LEU
1	A	345	VAL
1	A	349	ILE
1	A	372	VAL
1	A	388	PHE
1	A	392	THR
1	A	406	VAL
1	A	422	GLU
1	A	428	LYS
1	A	439	GLN
1	A	443	VAL
1	A	444	GLY
1	A	446	ALA
1	A	447	MET
1	A	448	VAL
1	A	455	PRO
1	A	459	PHE
1	A	462	SER
1	A	473	THR
1	A	482	VAL
1	A	496	MET
1	A	529	ASP
1	A	530	SER
1	A	539	GLY
1	A	549	VAL
1	A	550	VAL
1	A	580	ALA
1	A	582	ALA
1	A	583	THR
1	A	584	GLN
1	A	597	TYR
1	A	616	GLY
1	A	617	PHE
1	A	622	GLN
1	A	638	PRO
1	A	640	GLU
1	A	651	ALA
1	A	652	THR
1	A	672	VAL
1	A	673	GLU
1	A	676	THR

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Mol	Chain	Res	Type
1	A	677	ALA
1	A	679	GLY
1	A	689	GLY
1	A	695	LEU
1	A	706	ALA
1	A	713	LEU
1	A	730	ASP
1	A	738	ALA
1	A	776	GLU
1	A	788	ASP
1	A	794	ALA
1	A	824	SER
1	A	865	GLN
1	A	866	GLU
1	A	868	LEU
1	A	874	PRO
1	A	903	LEU
1	A	931	LEU
1	A	933	THR
1	A	945	ILE
1	A	946	VAL
1	A	952	LEU
1	A	957	GLY
1	A	958	LYS
1	A	988	PRO
1	A	991	ILE
1	A	1005	THR
1	A	1012	VAL
1	A	1016	VAL
1	A	1034	SER
1	B	3	ASN
1	B	4	PHE
1	B	50	PRO
1	B	53	ASP
1	B	69	MET
1	B	72	ILE
1	B	82	SER
1	B	83	ASP
1	B	112	GLN
1	B	113	LEU
1	B	117	LEU
1	B	129	VAL

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Mol	Chain	Res	Type
1	B	131	LYS
1	B	132	SER
1	B	140	VAL
1	B	151	GLN
1	B	158	VAL
1	B	173	GLY
1	B	175	VAL
1	B	191	ASN
1	B	192	GLU
1	B	205	THR
1	B	226	LYS
1	B	228	GLN
1	B	258	SER
1	B	326	PRO
1	B	357	LEU
1	B	361	ASN
1	B	363	ARG
1	B	372	VAL
1	B	380	PHE
1	B	381	ALA
1	B	396	PHE
1	B	397	GLY
1	B	423	GLU
1	B	428	LYS
1	B	451	ALA
1	B	461	GLY
1	B	465	ALA
1	B	471	SER
1	B	475	VAL
1	B	478	MET
1	B	479	ALA
1	B	494	ALA
1	B	495	THR
1	B	523	SER
1	B	541	TYR
1	B	546	LEU
1	B	548	ILE
1	B	554	TYR
1	B	567	GLU
1	B	580	ALA
1	B	602	GLU
1	B	603	LYS

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Mol	Chain	Res	Type
1	B	618	ALA
1	B	633	ASP
1	B	638	PRO
1	B	644	VAL
1	B	654	ALA
1	B	655	PHE
1	B	669	PRO
1	B	674	LEU
1	B	691	GLY
1	B	693	GLU
1	B	712	MET
1	B	752	ALA
1	B	781	MET
1	B	786	ILE
1	B	802	SER
1	B	807	SER
1	B	821	GLY
1	B	831	ALA
1	B	835	LYS
1	B	837	THR
1	B	849	SER
1	B	851	LEU
1	B	853	THR
1	B	871	ASN
1	B	895	TRP
1	B	900	SER
1	B	909	VAL
1	B	921	LEU
1	B	935	ILE
1	B	942	ALA
1	B	946	VAL
1	B	953	MET
1	B	956	GLU
1	B	958	LYS
1	B	975	ILE
1	B	1012	VAL
1	B	1019	ILE
1	C	34	GLN
1	C	52	ALA
1	C	54	ALA
1	C	59	ASP
1	C	61	VAL

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Mol	Chain	Res	Type
1	C	64	VAL
1	C	65	ILE
1	C	84	SER
1	C	95	GLU
1	C	103	ALA
1	C	111	LEU
1	C	112	GLN
1	C	120	GLN
1	C	122	VAL
1	C	123	GLN
1	C	127	VAL
1	C	138	MET
1	C	152	GLU
1	C	153	ASP
1	C	165	ALA
1	C	170	SER
1	C	171	GLY
1	C	174	ASP
1	C	187	TRP
1	C	190	PRO
1	C	191	ASN
1	C	195	LYS
1	C	196	PHE
1	C	216	ALA
1	C	222	THR
1	C	226	LYS
1	C	230	LEU
1	C	257	GLY
1	C	311	ALA
1	C	319	SER
1	C	336	SER
1	C	341	VAL
1	C	366	LEU
1	C	376	LEU
1	C	377	LEU
1	C	386	PHE
1	C	399	VAL
1	C	404	LEU
1	C	410	ILE
1	C	411	VAL
1	C	414	GLU
1	C	418	ARG

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Mol	Chain	Res	Type
1	C	425	LEU
1	C	427	PRO
1	C	439	GLN
1	C	450	SER
1	C	457	ALA
1	C	460	GLY
1	C	463	THR
1	C	471	SER
1	C	474	ILE
1	C	488	LEU
1	C	524	THR
1	C	531	VAL
1	C	534	ILE
1	C	536	ARG
1	C	546	LEU
1	C	577	GLN
1	C	589	LYS
1	C	597	TYR
1	C	606	VAL
1	C	620	ARG
1	C	623	ASN
1	C	624	THR
1	C	640	GLU
1	C	644	VAL
1	C	649	MET
1	C	657	GLN
1	C	658	ILE
1	C	678	THR
1	C	689	GLY
1	C	697	GLN
1	C	700	ASN
1	C	706	ALA
1	C	712	MET
1	C	720	GLY
1	C	743	ILE
1	C	744	ASN
1	C	776	GLU
1	C	791	VAL
1	C	801	PHE
1	C	806	SER
1	C	824	SER
1	C	825	MET

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Mol	Chain	Res	Type
1	C	830	GLN
1	C	832	ALA
1	C	835	LYS
1	C	837	THR
1	C	852	PRO
1	C	873	ALA
1	C	893	GLU
1	C	905	VAL
1	C	912	ALA
1	C	913	LEU
1	C	935	ILE
1	C	960	LEU
1	C	975	ILE
1	C	989	LEU
1	C	995	ALA
1	C	998	GLY
1	C	1029	VAL
1	C	1034	SER
1	C	1035	ARG
1	A	7	ASP
1	A	12	ALA
1	A	15	ILE
1	A	36	PRO
1	A	50	PRO
1	A	53	ASP
1	A	69	MET
1	A	104	GLN
1	A	156	ASP
1	A	166	ILE
1	A	170	SER
1	A	181	GLN
1	A	182	TYR
1	A	217	GLY
1	A	411	VAL
1	A	472	ILE
1	A	494	ALA
1	A	514	GLY
1	A	521	GLU
1	A	538	THR
1	A	553	ALA
1	A	562	SER
1	A	566	ASP

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Mol	Chain	Res	Type
1	A	594	VAL
1	A	601	LYS
1	A	645	GLU
1	A	684	LEU
1	A	705	GLU
1	A	714	THR
1	A	751	GLY
1	A	759	VAL
1	A	786	ILE
1	A	833	PRO
1	A	855	VAL
1	A	896	SER
1	A	942	ALA
1	A	944	LEU
1	A	955	LYS
1	A	971	ARG
1	A	977	MET
1	A	1008	MET
1	A	1014	ALA
1	B	34	GLN
1	B	51	GLY
1	B	52	ALA
1	B	81	ASN
1	B	101	ASP
1	B	104	GLN
1	B	111	LEU
1	B	115	MET
1	B	147	GLY
1	B	157	TYR
1	B	174	ASP
1	B	232	ALA
1	B	235	ILE
1	B	255	GLN
1	B	263	ARG
1	B	283	GLY
1	B	299	ALA
1	B	310	LEU
1	B	359	LEU
1	B	436	GLY
1	B	442	LEU
1	B	445	ILE
1	B	464	GLY

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Mol	Chain	Res	Type
1	B	472	ILE
1	B	482	VAL
1	B	491	ALA
1	B	517	ASN
1	B	519	MET
1	B	539	GLY
1	B	547	ILE
1	B	552	MET
1	B	555	LEU
1	B	556	PHE
1	B	581	GLY
1	B	601	LYS
1	B	647	ILE
1	B	671	ILE
1	B	672	VAL
1	B	676	THR
1	B	689	GLY
1	B	704	ALA
1	B	778	LYS
1	B	788	ASP
1	B	820	ASN
1	B	834	GLY
1	B	848	ALA
1	B	852	PRO
1	B	863	SER
1	B	866	GLU
1	B	870	GLY
1	B	882	ILE
1	B	889	ALA
1	B	906	PRO
1	B	913	LEU
1	B	917	THR
1	B	918	PHE
1	B	919	ARG
1	B	964	THR
1	B	974	PRO
1	B	998	GLY
1	B	1014	ALA
1	C	15	ILE
1	C	26	ALA
1	C	102	ILE
1	C	105	VAL

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Mol	Chain	Res	Type
1	C	126	GLY
1	C	142	VAL
1	C	147	GLY
1	C	164	ASP
1	C	221	GLY
1	C	295	THR
1	C	327	TYR
1	C	339	GLU
1	C	357	LEU
1	C	373	PRO
1	C	375	VAL
1	C	403	GLY
1	C	407	ASP
1	C	424	GLY
1	C	436	GLY
1	C	447	MET
1	C	491	ALA
1	C	520	PHE
1	C	521	GLU
1	C	525	HIS
1	C	530	SER
1	C	582	ALA
1	C	591	LEU
1	C	592	ASN
1	C	601	LYS
1	C	636	ASP
1	C	639	GLY
1	C	696	THR
1	C	699	ARG
1	C	729	ILE
1	C	734	GLU
1	C	759	VAL
1	C	765	ARG
1	C	768	VAL
1	C	821	GLY
1	C	861	GLY
1	C	869	SER
1	C	903	LEU
1	C	904	VAL
1	C	926	TYR
1	C	934	THR
1	C	950	LYS

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Mol	Chain	Res	Type
1	C	963	ALA
1	C	967	ALA
1	C	976	LEU
1	C	983	ILE
1	C	993	THR
1	C	1003	VAL
1	C	1015	THR
1	C	1016	VAL
1	C	1017	LEU
1	C	1024	VAL
1	C	1026	PHE
1	A	11	PHE
1	A	29	LYS
1	A	161	ASN
1	A	172	VAL
1	A	174	ASP
1	A	201	VAL
1	A	269	GLU
1	A	299	ALA
1	A	319	SER
1	A	330	THR
1	A	377	LEU
1	A	384	ALA
1	A	515	TRP
1	A	577	GLN
1	A	628	PHE
1	A	778	LYS
1	A	820	ASN
1	A	831	ALA
1	A	869	SER
1	A	916	ALA
1	A	937	LEU
1	A	960	LEU
1	B	19	ILE
1	B	119	PRO
1	B	139	VAL
1	B	193	LEU
1	B	204	ILE
1	B	224	PRO
1	B	230	LEU
1	B	360	GLN
1	B	481	SER

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Mol	Chain	Res	Type
1	B	659	LYS
1	B	688	ALA
1	B	713	LEU
1	B	808	ARG
1	B	878	ALA
1	B	881	LEU
1	B	901	VAL
1	B	937	LEU
1	B	941	ASN
1	B	989	LEU
1	C	141	GLY
1	C	151	GLN
1	C	233	SER
1	C	266	ALA
1	C	306	ILE
1	C	340	VAL
1	C	371	ALA
1	C	422	GLU
1	C	470	PHE
1	C	820	ASN
1	C	862	MET
1	C	871	ASN
1	C	988	PRO
1	C	992	SER
1	A	103	ALA
1	A	123	GLN
1	A	308	ALA
1	A	334	LYS
1	A	407	ASP
1	A	425	LEU
1	A	635	ALA
1	A	636	ASP
1	A	729	ILE
1	A	737	GLN
1	A	803	ALA
1	A	881	LEU
1	A	894	SER
1	A	935	ILE
1	A	987	MET
1	A	1028	VAL
1	A	1035	ARG
1	B	11	PHE

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Mol	Chain	Res	Type
1	B	48	SER
1	B	223	PRO
1	B	244	GLU
1	B	327	TYR
1	B	411	VAL
1	B	443	VAL
1	B	454	VAL
1	B	650	ARG
1	B	723	ASP
1	B	751	GLY
1	B	907	LEU
1	B	928	GLN
1	B	955	LYS
1	B	1013	THR
1	C	106	GLN
1	C	110	LYS
1	C	330	THR
1	C	335	ILE
1	C	440	GLY
1	C	473	THR
1	C	540	ARG
1	C	711	ASP
1	C	713	LEU
1	C	909	VAL
1	A	14	VAL
1	A	33	ALA
1	A	163	LYS
1	A	287	SER
1	A	317	PHE
1	A	362	PHE
1	A	376	LEU
1	A	389	SER
1	A	426	PRO
1	A	471	SER
1	A	475	VAL
1	A	692	HIS
1	A	694	LYS
1	A	709	HIS
1	A	800	PRO
1	A	823	PRO
1	A	832	ALA
1	A	847	LEU

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Mol	Chain	Res	Type
1	A	857	TYR
1	A	941	ASN
1	A	1024	VAL
1	B	252	LYS
1	B	329	THR
1	B	367	ILE
1	B	373	PRO
1	B	427	PRO
1	B	516	PHE
1	B	597	TYR
1	B	833	PRO
1	B	969	ARG
1	B	1005	THR
1	B	1011	MET
1	C	132	SER
1	C	423	GLU
1	C	468	ARG
1	C	545	TYR
1	C	635	ALA
1	C	677	ALA
1	C	735	LYS
1	C	974	PRO
1	A	220	GLY
1	A	434	SER
1	A	552	MET
1	A	702	LEU
1	A	756	GLY
1	A	1000	GLN
1	A	1001	ASN
1	B	12	ALA
1	B	291	ILE
1	B	331	PRO
1	B	424	GLY
1	B	470	PHE
1	B	521	GLU
1	B	701	GLN
1	B	735	LYS
1	B	893	GLU
1	B	923	ASN
1	C	104	GLN
1	C	223	PRO
1	C	224	PRO

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Mol	Chain	Res	Type
1	C	304	ALA
1	C	390	ILE
1	C	549	VAL
1	C	588	GLN
1	C	747	ASN
1	C	858	ASP
1	C	965	LEU
1	C	997	SER
1	C	1004	GLY
1	C	1027	VAL
1	A	822	LEU
1	A	996	GLY
1	B	8	ARG
1	B	105	VAL
1	B	107	VAL
1	B	284	GLN
1	B	474	ILE
1	B	557	VAL
1	B	710	PRO
1	C	19	ILE
1	C	32	VAL
1	C	472	ILE
1	C	550	VAL
1	A	18	ILE
1	A	222	THR
1	A	373	PRO
1	A	436	GLY
1	A	474	ILE
1	A	873	ALA
1	B	444	GLY
1	B	796	GLY
1	B	874	PRO
1	C	325	TYR
1	C	800	PRO
1	C	946	VAL
1	A	227	GLY
1	A	314	GLU
1	A	466	ILE
1	A	731	ILE
1	B	368	PRO
1	B	549	VAL
1	B	945	ILE

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Mol	Chain	Res	Type
1	C	382	VAL
1	C	438	ILE
1	C	833	PRO
1	A	746	ILE
1	B	315	PRO
1	B	337	ILE
1	C	204	ILE
1	A	930	GLY
1	C	214	VAL
1	C	315	PRO
1	C	1023	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%)	557 (67%)	276 (33%)	0	1
1	B	833/859 (97%)	566 (68%)	267 (32%)	0	1
1	C	833/859 (97%)	535 (64%)	298 (36%)	0	1
All	All	2499/2577 (97%)	1658 (66%)	841 (34%)	0	1

All (841) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ASN
1	A	4	PHE
1	A	8	ARG
1	A	14	VAL
1	A	15	ILE
1	A	18	ILE
1	A	19	ILE
1	A	20	MET
1	A	25	LEU
1	A	27	ILE
1	A	37	THR

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Mol	Chain	Res	Type
1	A	43	VAL
1	A	46	SER
1	A	62	THR
1	A	63	GLN
1	A	65	ILE
1	A	67	GLN
1	A	69	MET
1	A	72	ILE
1	A	75	LEU
1	A	78	MET
1	A	80	SER
1	A	84	SER
1	A	87	THR
1	A	88	VAL
1	A	91	THR
1	A	92	LEU
1	A	93	THR
1	A	107	VAL
1	A	111	LEU
1	A	112	GLN
1	A	113	LEU
1	A	115	MET
1	A	117	LEU
1	A	118	LEU
1	A	120	GLN
1	A	121	GLU
1	A	122	VAL
1	A	127	VAL
1	A	130	GLU
1	A	134	SER
1	A	139	VAL
1	A	150	THR
1	A	151	GLN
1	A	152	GLU
1	A	153	ASP
1	A	164	ASP
1	A	167	SER
1	A	169	THR
1	A	175	VAL
1	A	177	LEU
1	A	181	GLN
1	A	186	ILE

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Mol	Chain	Res	Type
1	A	189	ASN
1	A	193	LEU
1	A	195	LYS
1	A	201	VAL
1	A	202	ASP
1	A	204	ILE
1	A	205	THR
1	A	224	PRO
1	A	233	SER
1	A	240	LEU
1	A	254	ASN
1	A	255	GLN
1	A	256	ASP
1	A	259	ARG
1	A	260	VAL
1	A	265	VAL
1	A	268	ILE
1	A	269	GLU
1	A	270	LEU
1	A	273	GLU
1	A	274	ASN
1	A	282	ASN
1	A	289	LEU
1	A	298	ASN
1	A	300	LEU
1	A	301	ASP
1	A	307	ARG
1	A	314	GLU
1	A	316	PHE
1	A	319	SER
1	A	322	LYS
1	A	323	ILE
1	A	324	VAL
1	A	330	THR
1	A	335	ILE
1	A	349	ILE
1	A	350	LEU
1	A	351	VAL
1	A	353	LEU
1	A	355	MET
1	A	357	LEU
1	A	360	GLN

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Mol	Chain	Res	Type
1	A	363	ARG
1	A	366	LEU
1	A	373	PRO
1	A	382	VAL
1	A	383	LEU
1	A	388	PHE
1	A	390	ILE
1	A	393	LEU
1	A	394	THR
1	A	398	MET
1	A	404	LEU
1	A	405	LEU
1	A	410	ILE
1	A	413	VAL
1	A	416	VAL
1	A	417	GLU
1	A	419	VAL
1	A	420	MET
1	A	431	THR
1	A	433	LYS
1	A	438	ILE
1	A	442	LEU
1	A	445	ILE
1	A	447	MET
1	A	449	LEU
1	A	450	SER
1	A	456	MET
1	A	472	ILE
1	A	474	ILE
1	A	481	SER
1	A	482	VAL
1	A	489	THR
1	A	498	LYS
1	A	517	ASN
1	A	518	ARG
1	A	519	MET
1	A	521	GLU
1	A	527	TYR
1	A	528	THR
1	A	529	ASP
1	A	536	ARG
1	A	543	VAL

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Mol	Chain	Res	Type
1	A	546	LEU
1	A	547	ILE
1	A	556	PHE
1	A	564	LEU
1	A	569	GLN
1	A	571	VAL
1	A	572	PHE
1	A	573	MET
1	A	587	THR
1	A	590	VAL
1	A	594	VAL
1	A	595	THR
1	A	598	TYR
1	A	600	THR
1	A	601	LYS
1	A	603	LYS
1	A	607	GLU
1	A	620	ARG
1	A	622	GLN
1	A	623	ASN
1	A	628	PHE
1	A	634	TRP
1	A	643	LYS
1	A	645	GLU
1	A	648	THR
1	A	649	MET
1	A	650	ARG
1	A	652	THR
1	A	666	PHE
1	A	671	ILE
1	A	672	VAL
1	A	674	LEU
1	A	685	ILE
1	A	690	LEU
1	A	693	GLU
1	A	699	ARG
1	A	708	LYS
1	A	711	ASP
1	A	713	LEU
1	A	714	THR
1	A	715	SER
1	A	716	VAL

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Mol	Chain	Res	Type
1	A	721	LEU
1	A	722	GLU
1	A	726	GLN
1	A	728	LYS
1	A	729	ILE
1	A	731	ILE
1	A	737	GLN
1	A	739	LEU
1	A	742	SER
1	A	744	ASN
1	A	750	LEU
1	A	758	TYR
1	A	763	ILE
1	A	764	ASP
1	A	768	VAL
1	A	773	VAL
1	A	776	GLU
1	A	778	LYS
1	A	779	TYR
1	A	780	ARG
1	A	782	LEU
1	A	791	VAL
1	A	792	ARG
1	A	795	ASP
1	A	799	VAL
1	A	801	PHE
1	A	805	SER
1	A	806	SER
1	A	815	ARG
1	A	817	GLU
1	A	818	ARG
1	A	822	LEU
1	A	827	ILE
1	A	828	LEU
1	A	830	GLN
1	A	833	PRO
1	A	837	THR
1	A	839	GLU
1	A	841	MET
1	A	843	LEU
1	A	844	MET
1	A	845	GLU

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Mol	Chain	Res	Type
1	A	846	GLN
1	A	847	LEU
1	A	850	LYS
1	A	853	THR
1	A	855	VAL
1	A	857	TYR
1	A	862	MET
1	A	865	GLN
1	A	867	ARG
1	A	868	LEU
1	A	869	SER
1	A	874	PRO
1	A	875	SER
1	A	876	LEU
1	A	880	SER
1	A	882	ILE
1	A	887	CYS
1	A	893	GLU
1	A	903	LEU
1	A	905	VAL
1	A	910	ILE
1	A	914	LEU
1	A	917	THR
1	A	919	ARG
1	A	921	LEU
1	A	927	PHE
1	A	931	LEU
1	A	940	LYS
1	A	953	MET
1	A	955	LYS
1	A	958	LYS
1	A	960	LEU
1	A	964	THR
1	A	965	LEU
1	A	969	ARG
1	A	971	ARG
1	A	976	LEU
1	A	982	PHE
1	A	983	ILE
1	A	987	MET
1	A	989	LEU
1	A	991	ILE

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Mol	Chain	Res	Type
1	A	993	THR
1	A	1003	VAL
1	A	1007	VAL
1	A	1008	MET
1	A	1011	MET
1	A	1015	THR
1	A	1020	PHE
1	A	1022	VAL
1	A	1027	VAL
1	A	1030	ARG
1	A	1034	SER
1	A	1035	ARG
1	A	1036	LYS
1	B	1	MET
1	B	7	ASP
1	B	10	ILE
1	B	13	TRP
1	B	14	VAL
1	B	17	ILE
1	B	18	ILE
1	B	21	LEU
1	B	28	LEU
1	B	29	LYS
1	B	32	VAL
1	B	36	PRO
1	B	37	THR
1	B	38	ILE
1	B	44	THR
1	B	46	SER
1	B	50	PRO
1	B	57	VAL
1	B	61	VAL
1	B	62	THR
1	B	67	GLN
1	B	72	ILE
1	B	74	ASN
1	B	76	MET
1	B	88	VAL
1	B	90	ILE
1	B	91	THR
1	B	92	LEU
1	B	96	SER

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Mol	Chain	Res	Type
1	B	101	ASP
1	B	102	ILE
1	B	104	GLN
1	B	107	VAL
1	B	108	GLN
1	B	110	LYS
1	B	118	LEU
1	B	121	GLU
1	B	127	VAL
1	B	130	GLU
1	B	131	LYS
1	B	133	SER
1	B	138	MET
1	B	142	VAL
1	B	143	ILE
1	B	144	ASN
1	B	148	THR
1	B	150	THR
1	B	154	ILE
1	B	158	VAL
1	B	162	MET
1	B	163	LYS
1	B	166	ILE
1	B	169	THR
1	B	176	GLN
1	B	181	GLN
1	B	185	ARG
1	B	188	MET
1	B	192	GLU
1	B	199	THR
1	B	202	ASP
1	B	203	VAL
1	B	204	ILE
1	B	210	GLN
1	B	213	GLN
1	B	223	PRO
1	B	224	PRO
1	B	226	LYS
1	B	231	ASN
1	B	233	SER
1	B	234	ILE
1	B	237	GLN

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Mol	Chain	Res	Type
1	B	242	SER
1	B	243	THR
1	B	250	LEU
1	B	251	LEU
1	B	253	VAL
1	B	260	VAL
1	B	262	LEU
1	B	273	GLU
1	B	277	ILE
1	B	278	ILE
1	B	284	GLN
1	B	289	LEU
1	B	291	ILE
1	B	293	LEU
1	B	298	ASN
1	B	300	LEU
1	B	307	ARG
1	B	313	MET
1	B	321	LEU
1	B	323	ILE
1	B	324	VAL
1	B	329	THR
1	B	330	THR
1	B	333	VAL
1	B	335	ILE
1	B	336	SER
1	B	341	VAL
1	B	342	LYS
1	B	343	THR
1	B	345	VAL
1	B	349	ILE
1	B	350	LEU
1	B	355	MET
1	B	357	LEU
1	B	358	PHE
1	B	359	LEU
1	B	361	ASN
1	B	365	THR
1	B	370	ILE
1	B	373	PRO
1	B	375	VAL
1	B	377	LEU

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Mol	Chain	Res	Type
1	B	389	SER
1	B	393	LEU
1	B	395	MET
1	B	398	MET
1	B	399	VAL
1	B	400	LEU
1	B	405	LEU
1	B	410	ILE
1	B	413	VAL
1	B	414	GLU
1	B	416	VAL
1	B	417	GLU
1	B	418	ARG
1	B	422	GLU
1	B	428	LYS
1	B	435	MET
1	B	437	GLN
1	B	442	LEU
1	B	443	VAL
1	B	447	MET
1	B	452	VAL
1	B	454	VAL
1	B	474	ILE
1	B	476	SER
1	B	478	MET
1	B	482	VAL
1	B	484	VAL
1	B	492	LEU
1	B	497	LEU
1	B	498	LYS
1	B	513	PHE
1	B	516	PHE
1	B	518	ARG
1	B	522	LYS
1	B	523	SER
1	B	526	HIS
1	B	527	TYR
1	B	528	THR
1	B	534	ILE
1	B	542	LEU
1	B	543	VAL
1	B	544	LEU

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Mol	Chain	Res	Type
1	B	549	VAL
1	B	555	LEU
1	B	557	VAL
1	B	558	ARG
1	B	564	LEU
1	B	567	GLU
1	B	575	MET
1	B	576	VAL
1	B	589	LYS
1	B	590	VAL
1	B	591	LEU
1	B	599	LEU
1	B	601	LYS
1	B	603	LYS
1	B	605	ASN
1	B	634	TRP
1	B	640	GLU
1	B	641	GLU
1	B	644	VAL
1	B	649	MET
1	B	652	THR
1	B	659	LYS
1	B	660	ASP
1	B	662	MET
1	B	668	LEU
1	B	671	ILE
1	B	672	VAL
1	B	674	LEU
1	B	684	LEU
1	B	696	THR
1	B	697	GLN
1	B	702	LEU
1	B	703	LEU
1	B	705	GLU
1	B	713	LEU
1	B	716	VAL
1	B	717	ARG
1	B	721	LEU
1	B	723	ASP
1	B	729	ILE
1	B	731	ILE
1	B	743	ILE

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Mol	Chain	Res	Type
1	B	749	THR
1	B	750	LEU
1	B	757	SER
1	B	760	ASN
1	B	763	ILE
1	B	764	ASP
1	B	765	ARG
1	B	773	VAL
1	B	782	LEU
1	B	786	ILE
1	B	815	ARG
1	B	822	LEU
1	B	825	MET
1	B	827	ILE
1	B	828	LEU
1	B	830	GLN
1	B	833	PRO
1	B	836	SER
1	B	846	GLN
1	B	849	SER
1	B	853	THR
1	B	860	THR
1	B	868	LEU
1	B	871	ASN
1	B	876	LEU
1	B	879	ILE
1	B	880	SER
1	B	884	VAL
1	B	885	PHE
1	B	891	LEU
1	B	895	TRP
1	B	897	ILE
1	B	900	SER
1	B	901	VAL
1	B	902	MET
1	B	903	LEU
1	B	910	ILE
1	B	914	LEU
1	B	922	THR
1	B	928	GLN
1	B	931	LEU
1	B	933	THR

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Mol	Chain	Res	Type
1	B	935	ILE
1	B	940	LYS
1	B	943	ILE
1	B	946	VAL
1	B	950	LYS
1	B	954	ASP
1	B	956	GLU
1	B	960	LEU
1	B	962	GLU
1	B	965	LEU
1	B	969	ARG
1	B	972	LEU
1	B	980	LEU
1	B	983	ILE
1	B	984	LEU
1	B	987	MET
1	B	991	ILE
1	B	992	SER
1	B	997	SER
1	B	1003	VAL
1	B	1007	VAL
1	B	1012	VAL
1	B	1016	VAL
1	B	1017	LEU
1	B	1019	ILE
1	B	1020	PHE
1	B	1027	VAL
1	B	1036	LYS
1	C	4	PHE
1	C	6	ILE
1	C	13	TRP
1	C	14	VAL
1	C	15	ILE
1	C	17	ILE
1	C	18	ILE
1	C	20	MET
1	C	21	LEU
1	C	29	LYS
1	C	32	VAL
1	C	34	GLN
1	C	35	TYR
1	C	41	PRO

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Mol	Chain	Res	Type
1	C	43	VAL
1	C	45	ILE
1	C	50	PRO
1	C	56	THR
1	C	57	VAL
1	C	60	THR
1	C	63	GLN
1	C	65	ILE
1	C	66	GLU
1	C	67	GLN
1	C	72	ILE
1	C	75	LEU
1	C	76	MET
1	C	78	MET
1	C	79	SER
1	C	83	ASP
1	C	87	THR
1	C	89	GLN
1	C	92	LEU
1	C	93	THR
1	C	95	GLU
1	C	98	THR
1	C	102	ILE
1	C	104	GLN
1	C	108	GLN
1	C	110	LYS
1	C	112	GLN
1	C	113	LEU
1	C	122	VAL
1	C	124	GLN
1	C	125	GLN
1	C	129	VAL
1	C	132	SER
1	C	133	SER
1	C	135	SER
1	C	137	LEU
1	C	138	MET
1	C	143	ILE
1	C	144	ASN
1	C	145	THR
1	C	146	ASP
1	C	148	THR

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Mol	Chain	Res	Type
1	C	149	MET
1	C	151	GLN
1	C	152	GLU
1	C	154	ILE
1	C	155	SER
1	C	158	VAL
1	C	166	ILE
1	C	167	SER
1	C	169	THR
1	C	170	SER
1	C	177	LEU
1	C	184	MET
1	C	186	ILE
1	C	192	GLU
1	C	193	LEU
1	C	194	ASN
1	C	195	LYS
1	C	205	THR
1	C	210	GLN
1	C	214	VAL
1	C	218	GLN
1	C	226	LYS
1	C	228	GLN
1	C	231	ASN
1	C	239	ARG
1	C	243	THR
1	C	248	LYS
1	C	249	ILE
1	C	250	LEU
1	C	252	LYS
1	C	253	VAL
1	C	258	SER
1	C	259	ARG
1	C	260	VAL
1	C	265	VAL
1	C	267	LYS
1	C	269	GLU
1	C	270	LEU
1	C	274	ASN
1	C	278	ILE
1	C	280	GLU
1	C	289	LEU

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Mol	Chain	Res	Type
1	C	291	ILE
1	C	292	LYS
1	C	293	LEU
1	C	295	THR
1	C	300	LEU
1	C	301	ASP
1	C	309	GLU
1	C	313	MET
1	C	316	PHE
1	C	317	PHE
1	C	322	LYS
1	C	324	VAL
1	C	333	VAL
1	C	334	LYS
1	C	336	SER
1	C	337	ILE
1	C	339	GLU
1	C	341	VAL
1	C	343	THR
1	C	345	VAL
1	C	350	LEU
1	C	351	VAL
1	C	355	MET
1	C	356	TYR
1	C	361	ASN
1	C	366	LEU
1	C	369	THR
1	C	374	VAL
1	C	377	LEU
1	C	394	THR
1	C	395	MET
1	C	398	MET
1	C	399	VAL
1	C	400	LEU
1	C	402	ILE
1	C	404	LEU
1	C	406	VAL
1	C	411	VAL
1	C	413	VAL
1	C	417	GLU
1	C	422	GLU
1	C	428	LYS

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Mol	Chain	Res	Type
1	C	433	LYS
1	C	435	MET
1	C	448	VAL
1	C	452	VAL
1	C	454	VAL
1	C	456	MET
1	C	459	PHE
1	C	463	THR
1	C	466	ILE
1	C	471	SER
1	C	472	ILE
1	C	478	MET
1	C	480	LEU
1	C	481	SER
1	C	495	THR
1	C	496	MET
1	C	517	ASN
1	C	519	MET
1	C	528	THR
1	C	531	VAL
1	C	534	ILE
1	C	538	THR
1	C	542	LEU
1	C	544	LEU
1	C	549	VAL
1	C	552	MET
1	C	555	LEU
1	C	557	VAL
1	C	561	SER
1	C	564	LEU
1	C	568	ASP
1	C	573	MET
1	C	574	THR
1	C	575	MET
1	C	576	VAL
1	C	577	GLN
1	C	578	LEU
1	C	588	GLN
1	C	589	LYS
1	C	590	VAL
1	C	591	LEU
1	C	595	THR

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Mol	Chain	Res	Type
1	C	601	LYS
1	C	605	ASN
1	C	608	SER
1	C	617	PHE
1	C	622	GLN
1	C	623	ASN
1	C	626	ILE
1	C	631	LEU
1	C	634	TRP
1	C	645	GLU
1	C	648	THR
1	C	650	ARG
1	C	658	ILE
1	C	660	ASP
1	C	663	VAL
1	C	666	PHE
1	C	671	ILE
1	C	672	VAL
1	C	676	THR
1	C	678	THR
1	C	680	PHE
1	C	681	ASP
1	C	684	LEU
1	C	685	ILE
1	C	693	GLU
1	C	694	LYS
1	C	695	LEU
1	C	697	GLN
1	C	699	ARG
1	C	713	LEU
1	C	716	VAL
1	C	717	ARG
1	C	721	LEU
1	C	724	THR
1	C	728	LYS
1	C	729	ILE
1	C	731	ILE
1	C	733	GLN
1	C	741	VAL
1	C	743	ILE
1	C	746	ILE
1	C	750	LEU

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Mol	Chain	Res	Type
1	C	758	TYR
1	C	759	VAL
1	C	765	ARG
1	C	768	VAL
1	C	769	LYS
1	C	770	LYS
1	C	774	MET
1	C	778	LYS
1	C	782	LEU
1	C	797	GLN
1	C	798	MET
1	C	802	SER
1	C	805	SER
1	C	808	ARG
1	C	813	SER
1	C	815	ARG
1	C	816	LEU
1	C	817	GLU
1	C	824	SER
1	C	828	LEU
1	C	839	GLU
1	C	841	MET
1	C	842	GLU
1	C	843	LEU
1	C	844	MET
1	C	847	LEU
1	C	850	LYS
1	C	851	LEU
1	C	860	THR
1	C	866	GLU
1	C	869	SER
1	C	876	LEU
1	C	879	ILE
1	C	881	LEU
1	C	884	VAL
1	C	895	TRP
1	C	897	ILE
1	C	899	PHE
1	C	901	VAL
1	C	903	LEU
1	C	904	VAL
1	C	905	VAL

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Mol	Chain	Res	Type
1	C	909	VAL
1	C	917	THR
1	C	919	ARG
1	C	928	GLN
1	C	929	VAL
1	C	931	LEU
1	C	932	LEU
1	C	935	ILE
1	C	941	ASN
1	C	945	ILE
1	C	948	PHE
1	C	950	LYS
1	C	953	MET
1	C	955	LYS
1	C	958	LYS
1	C	960	LEU
1	C	962	GLU
1	C	964	THR
1	C	968	VAL
1	C	975	ILE
1	C	977	MET
1	C	984	LEU
1	C	986	VAL
1	C	990	VAL
1	C	993	THR
1	C	1005	THR
1	C	1007	VAL
1	C	1012	VAL
1	C	1013	THR
1	C	1019	ILE
1	C	1030	ARG
1	C	1036	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (106) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	104	GLN
1	A	106	GLN
1	A	108	GLN
1	A	109	ASN
1	A	124	GLN
1	A	144	ASN

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Mol	Chain	Res	Type
1	A	176	GLN
1	A	181	GLN
1	A	189	ASN
1	A	194	ASN
1	A	197	GLN
1	A	213	GLN
1	A	218	GLN
1	A	228	GLN
1	A	255	GLN
1	A	274	ASN
1	A	282	ASN
1	A	298	ASN
1	A	361	ASN
1	A	439	GLN
1	A	517	ASN
1	A	569	GLN
1	A	577	GLN
1	A	592	ASN
1	A	687	GLN
1	A	719	ASN
1	A	733	GLN
1	A	737	GLN
1	A	846	GLN
1	A	865	GLN
1	A	871	ASN
1	A	928	GLN
1	B	34	GLN
1	B	58	GLN
1	B	67	GLN
1	B	74	ASN
1	B	104	GLN
1	B	109	ASN
1	B	112	GLN
1	B	144	ASN
1	B	161	ASN
1	B	176	GLN
1	B	194	ASN
1	B	210	GLN
1	B	213	GLN
1	B	361	ASN
1	B	415	ASN
1	B	437	GLN

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Mol	Chain	Res	Type
1	B	517	ASN
1	B	577	GLN
1	B	584	GLN
1	B	596	HIS
1	B	622	GLN
1	B	642	ASN
1	B	700	ASN
1	B	726	GLN
1	B	733	GLN
1	B	744	ASN
1	B	820	ASN
1	B	830	GLN
1	B	846	GLN
1	B	865	GLN
1	B	871	ASN
1	B	923	ASN
1	B	1000	GLN
1	B	1001	ASN
1	C	3	ASN
1	C	63	GLN
1	C	74	ASN
1	C	81	ASN
1	C	104	GLN
1	C	108	GLN
1	C	112	GLN
1	C	125	GLN
1	C	161	ASN
1	C	176	GLN
1	C	189	ASN
1	C	194	ASN
1	C	197	GLN
1	C	210	GLN
1	C	211	ASN
1	C	218	GLN
1	C	231	ASN
1	C	274	ASN
1	C	360	GLN
1	C	361	ASN
1	C	469	GLN
1	C	517	ASN
1	C	569	GLN
1	C	577	GLN

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Mol	Chain	Res	Type
1	C	592	ASN
1	C	623	ASN
1	C	657	GLN
1	C	667	ASN
1	C	687	GLN
1	C	692	HIS
1	C	701	GLN
1	C	709	HIS
1	C	760	ASN
1	C	797	GLN
1	C	830	GLN
1	C	846	GLN
1	C	865	GLN
1	C	928	GLN
1	C	941	ASN
1	C	1000	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand is modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	DM2	A	2002	-	42,43,43	4.57	24 (57%)	56,67,67	4.21	35 (62%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	DM2	A	2002	-	1/1/9/9	4/13/60/60	0/5/5/5

All (24) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	2002	DM2	C2-C3	-13.35	1.16	1.38
2	A	2002	DM2	C1-C20	10.83	1.56	1.39
2	A	2002	DM2	C8-C9	8.64	1.54	1.40
2	A	2002	DM2	C5-C4	8.63	1.55	1.40
2	A	2002	DM2	C20-C5	8.42	1.53	1.41
2	A	2002	DM2	C2-C1	-8.34	1.24	1.38
2	A	2002	DM2	C3-C4	-7.48	1.24	1.39
2	A	2002	DM2	O4-C4	6.37	1.47	1.37
2	A	2002	DM2	C17-C16	-5.81	1.31	1.40
2	A	2002	DM2	C9-C16	5.69	1.49	1.39
2	A	2002	DM2	C11-C10	3.67	1.59	1.52
2	A	2002	DM2	O13-C13	3.57	1.27	1.21
2	A	2002	DM2	C20-C19	3.19	1.54	1.48
2	A	2002	DM2	C18-C17	2.96	1.47	1.41
2	A	2002	DM2	O5'-C1'	2.70	1.49	1.42
2	A	2002	DM2	C4'-C5'	2.68	1.58	1.52
2	A	2002	DM2	O10-C1'	2.63	1.48	1.41
2	A	2002	DM2	C18-C19	-2.62	1.41	1.47
2	A	2002	DM2	O6-C6	2.41	1.27	1.22
2	A	2002	DM2	C2'-C1'	2.39	1.56	1.50
2	A	2002	DM2	C7-C6	-2.36	1.42	1.47
2	A	2002	DM2	C4'-C3'	2.33	1.58	1.53
2	A	2002	DM2	C7-C8	-2.30	1.37	1.41
2	A	2002	DM2	C14-C13	2.29	1.56	1.50

All (35) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2002	DM2	C3-C2-C1	13.80	137.98	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2002	DM2	C2-C1-C20	-9.49	102.65	119.80
2	A	2002	DM2	C2-C3-C4	8.93	135.83	119.60
2	A	2002	DM2	O4-C4-C5	7.36	126.27	115.84
2	A	2002	DM2	C3-C4-C5	-7.30	105.31	120.14
2	A	2002	DM2	C6'-C5'-C4'	6.69	125.31	113.08
2	A	2002	DM2	O17-C17-C18	6.62	135.45	120.95
2	A	2002	DM2	O13-C13-C14	5.55	130.02	119.73
2	A	2002	DM2	O17-C17-C16	-5.48	102.29	118.18
2	A	2002	DM2	C4'-C3'-N3'	5.17	121.15	110.94
2	A	2002	DM2	C16-C9-C10	-4.85	113.19	120.98
2	A	2002	DM2	C18-C7-C6	4.77	126.44	120.00
2	A	2002	DM2	C15-C16-C9	4.76	131.15	121.62
2	A	2002	DM2	C20-C19-C18	4.70	125.58	117.97
2	A	2002	DM2	O19-C19-C18	-4.21	114.41	121.44
2	A	2002	DM2	C1-C20-C19	4.21	125.83	119.26
2	A	2002	DM2	C15-C16-C17	-4.18	111.58	119.22
2	A	2002	DM2	C4-C5-C6	4.01	127.59	122.22
2	A	2002	DM2	O13-C13-C12	-3.93	116.05	122.11
2	A	2002	DM2	C5-C20-C19	-3.89	115.69	120.69
2	A	2002	DM2	C8-C9-C10	3.72	127.13	119.01
2	A	2002	DM2	C7-C18-C19	-3.57	115.17	120.00
2	A	2002	DM2	O5'-C1'-C2'	3.50	116.27	110.84
2	A	2002	DM2	O8-C8-C7	-3.22	113.90	120.95
2	A	2002	DM2	O8-C8-C9	3.00	126.73	119.02
2	A	2002	DM2	C7-C18-C17	2.96	123.90	119.65
2	A	2002	DM2	C20-C5-C6	-2.83	115.54	119.87
2	A	2002	DM2	O14-C14-C13	2.82	119.82	112.49
2	A	2002	DM2	C2'-C3'-C4'	-2.80	105.89	110.08
2	A	2002	DM2	C8-C7-C6	-2.77	115.99	120.46
2	A	2002	DM2	C14-C13-C12	-2.72	113.93	117.58
2	A	2002	DM2	O5'-C5'-C4'	-2.60	104.87	109.55
2	A	2002	DM2	O4'-C4'-C3'	2.56	114.68	109.90
2	A	2002	DM2	O6-C6-C5	-2.35	117.51	121.44
2	A	2002	DM2	C7-C6-C5	2.01	121.55	118.11

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	2002	DM2	C4'

All (4) torsion outliers are listed below:

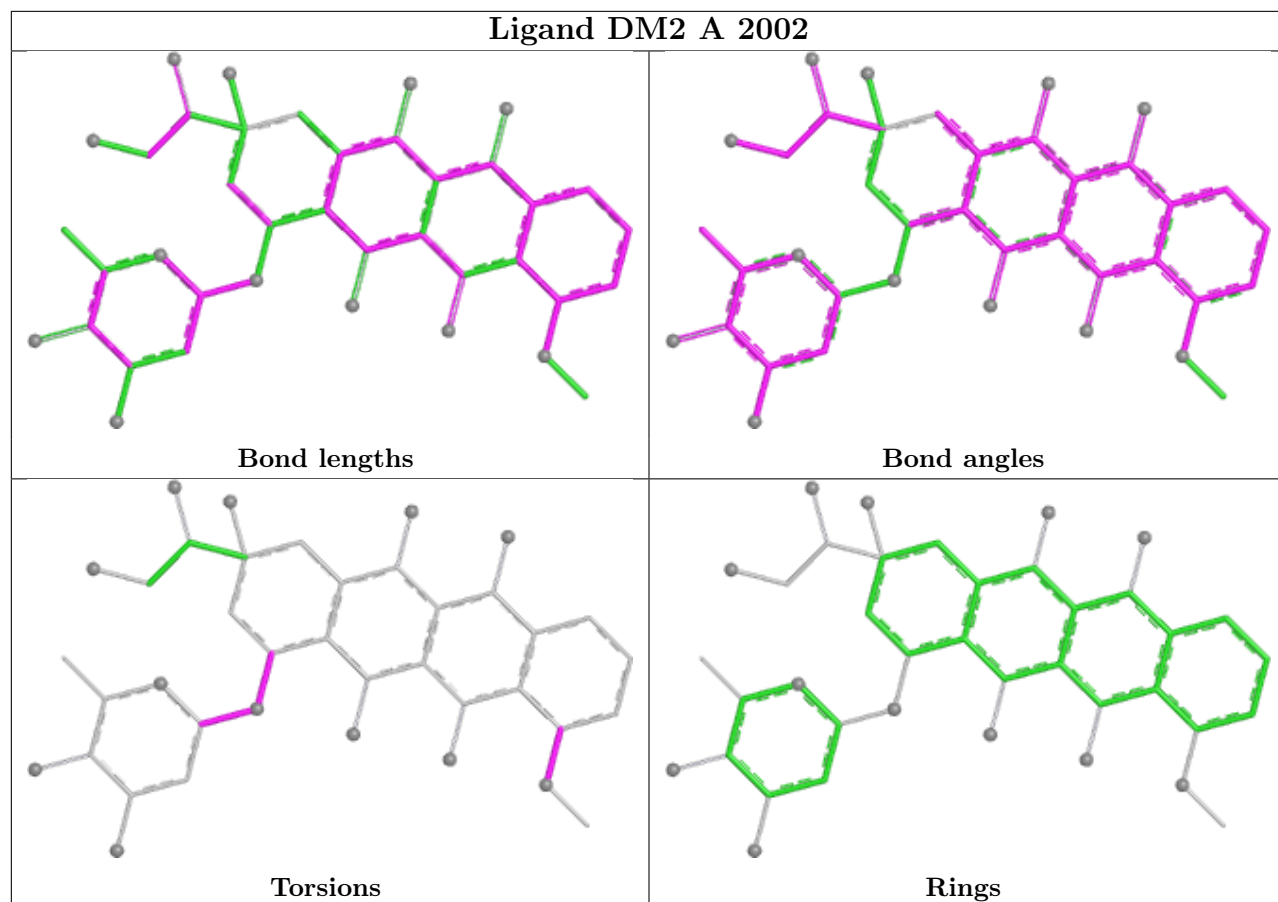
Mol	Chain	Res	Type	Atoms
2	A	2002	DM2	C2'-C1'-O10-C10
2	A	2002	DM2	O5'-C1'-O10-C10
2	A	2002	DM2	C5-C4-O4-C21
2	A	2002	DM2	C11-C10-O10-C1'

There are no ring outliers.

1 monomer is involved in 23 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	2002	DM2	23	0

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



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

EDS was not executed - this section is therefore empty.

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

EDS was not executed - this section is therefore empty.

6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

6.4 Ligands

EDS was not executed - this section is therefore empty.

6.5 Other polymers

EDS was not executed - this section is therefore empty.