



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 3G5U / pdb_00003g5u
Title : Structure of P-glycoprotein Reveals a Molecular Basis for Poly-Specific Drug Binding
Authors : Aller, S.G.; Yu, J.; Ward, A.; Weng, Y.; Chittaboina, S.; Zhuo, R.; Harrell, P.M.; Trinh, Y.T.; Zhang, Q.; Urbatsch, I.L.; Chang, G.
Deposited on : 2009-02-05
Resolution : 3.80 Å(reported)

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

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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
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

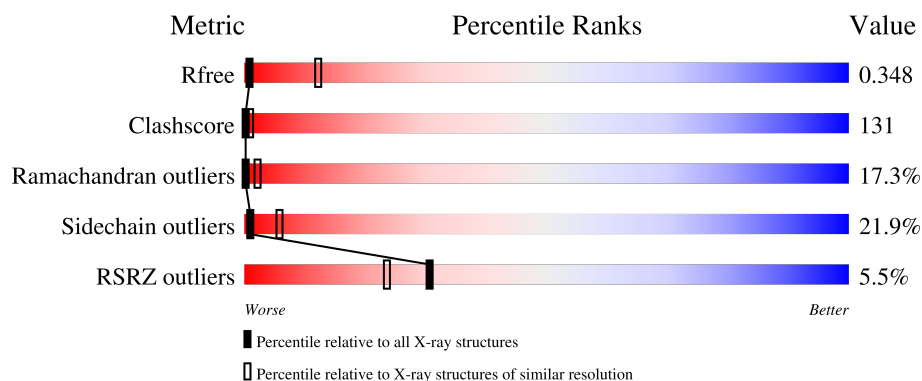
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.80 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1065 (3.96-3.64)
Clashscore	190562	1012 (3.94-3.66)
Ramachandran outliers	187476	1048 (3.96-3.64)
Sidechain outliers	187428	1043 (3.96-3.64)
RSRZ outliers	180081	1064 (3.96-3.64)

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

Mol	Chain	Length	Quality of chain
1	A	1284	
1	B	1284	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 18352 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Multidrug resistance protein 1a.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1182	Total	C	N	O	S	0	0	0
			9170	5895	1552	1686	37			
1	B	1182	Total	C	N	O	S	0	0	0
			9170	5895	1552	1686	37			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	952	ALA	CYS	engineered mutation	UNP Q5I1Y5
A	1277	TYR	-	expression tag	UNP Q5I1Y5
A	1278	VAL	-	expression tag	UNP Q5I1Y5
A	1279	HIS	-	expression tag	UNP Q5I1Y5
A	1280	HIS	-	expression tag	UNP Q5I1Y5
A	1281	HIS	-	expression tag	UNP Q5I1Y5
A	1282	HIS	-	expression tag	UNP Q5I1Y5
A	1283	HIS	-	expression tag	UNP Q5I1Y5
A	1284	HIS	-	expression tag	UNP Q5I1Y5
B	952	ALA	CYS	engineered mutation	UNP Q5I1Y5
B	1277	TYR	-	expression tag	UNP Q5I1Y5
B	1278	VAL	-	expression tag	UNP Q5I1Y5
B	1279	HIS	-	expression tag	UNP Q5I1Y5
B	1280	HIS	-	expression tag	UNP Q5I1Y5
B	1281	HIS	-	expression tag	UNP Q5I1Y5
B	1282	HIS	-	expression tag	UNP Q5I1Y5
B	1283	HIS	-	expression tag	UNP Q5I1Y5
B	1284	HIS	-	expression tag	UNP Q5I1Y5

- Molecule 2 is MERCURY (II) ION (CCD ID: HG) (formula: Hg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	6	Total	Hg	0	0
			6	6		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	6	Total	Hg	0	0
			6	6		

A917	L857	D796	F735	ASP	K615	T554	T492	T432	L371	G247	G187	A125	G61
Q918	L858	V797	T736	ARG	G616	S855	M493	V433	D372	A248	M188	T126	V62
S919	A859	S798	N737	LYS	A556	A556	D494	Q434	F373	F189	F189	Q127	A63
L920	T860	S799	L557	LEU	Y617	L557	E495	Q435	F374	A250	F190	Q128	L64
Q921	H861	F800	G738	SER	F619	D558	L496	M436	S375	E251	Q191	S129	P65
L922	P862	D801	P740	THR	K620	T559	E497	Q437	K376	E252	A192	S130	L66
P923	T863	D802	P741	LYS	L621	E560	K498	R438	S377	V253	M193	F131	M67
Y924	T864	F803	E742	GLU	V622	S861	A499	L439	G378	L254	M193	A194	M68
R925	A865	R804	T743	ALA	M623	E562	V500	Y440	H379	A255	T195	C132	L69
N926	T866	T805	Q746	L684	Q625	E563	E501	D441	K380	F196	F196	A135	F71
A927	G868	T806	N747	D685	Q625	V564	E502	P442	F197	A256	F197	A135	F71
N928	G808	T807	S748	E686	Q625	V564	E503	L443	S319	R258	G198	A136	G72
K929	V869	G808	N749	D687	ALA	Q566	A503	D444	S320	R259	G199	A137	D73
K930	V870	A809	T749	V688	GLY	A567	A505	G445	E321	V260	F200	R138	M74
A931	E871	L810	L750	ASN	ASN	A567	A506	G446	Y322	I261	I201	Q139	T75
H932	M872	T811	F751	P690	GLU	L569	D507	M446	Y323	I262	I202	A262	D76
F933	K873	T812	S752	P690	GLU	D570	F508	Y447	I263	F263	G204	H141	S77
F934	K874	R813	L753	S992	GLU	K571	I509	S448	I324	G264	F204	K142	F78
G935	L875	L814	L754	S992	LEU	A572	M510	I449	G325	G265	T205	I143	G79
T936	S876	A815	F755	M694	GLY	R573	K511	G451	Q326	Q266	T206	I144	V81
T937	G877	M816	L756	M694	GLY	R574	K512	Q452	V327	K267	G207	R144	G82
F938	A878	D817	L757	R695	ASN	E574	L512	Q453	N392	K268	G208	F147	N83
S939	A879	A818	L758	L696	GLU	G575	P513	D453	I393	K268	K209	F148	N84
F940	L880	A819	G759	L697	ALA	R576	H514	L454	H394	E269	F340	H149	S85
T941	K881	Q820	T760	K698	CYS	T577	Q515	R455	F395	F331	L210	H149	K86
Q942	D882	R821	I761	N700	SER	I579	D517	I457	F332	E271	T211	I151	N87
A943	K833	L822	S762	S701	LYS	V580	T518	Q458	F333	N274	L212	M152	S88
M944	K884	G823	F763	T702	ASP	A582	L519	V459	S399	N275	L214	M153	T89
N945	E885	E703	T764	E703	GLU	A582	V520	R460	R400	N276	L215	Q154	N90
Y946	L886	L765	T765	W704	IIE	H633	G521	Y461	K401	L277	A216	E155	N91
F947	E887	G826	F766	P705	ASP	R584	E522	L462	E402	E278	L217	I156	D95
S948	K888	R828	F767	W706	ASN	L585	R523	R463	F403	E279	S218	G157	A96
Y949	S889	L829	L768	F707	LEU	S886	G524	E464	Q404	A280	P219	V158	R97
A950	G890	A830	Q769	W708	LEU	T587	A525	L465	S340	K281	V220	F159	A98
A951	K891	H831	G770	W709	MET	V588	Q526	I466	V341	R282	L221	D160	M99
A952	T892	I832	F771	G710	SER	R589	L527	Q467	G407	L283	G222	V161	F100
F953	A893	F833	T772	I711	SER	N590	S528	V468	G408	L223	L223	D162	F100
R954	T894	Q834	F773	F712	LYS	A591	G529	V469	L409	I285	S224	D163	A101
F955	E895	N835	G774	G713	ASP	D592	G530	S470	M410	K286	A225	V164	A102
G956	A896	T836	K775	A714	SER	V593	Q531	Q471	L411	K287	G226	G165	L103
A957	L897	A837	A776	I715	GLY	L594	K532	E472	K412	I227	E166	E167	E104
Y958	E898	N838	G777	I716	SER	A595	Q533	P473	V413	I289	W228	L167	Y112
L959	R899	L839	E778	N717	SER	G596	B534	V474	K414	T290	A229	N168	Y113
V960	F900	G840	I779	G718	LEU	F597	B534	L475	A354	A291	K230	T169	M107
T961	R901	T841	L780	G719	IIE	D598	T537	F476	A355	N292	I231	R170	T108
Q962	T902	G842	T781	L720	ARG	G599	A538	A477	R356	T293	L232	R171	Y110
Q963	V903	T843	K782	Q721	ARG	G600	L541	T478	A357	S294	S233	T172	A111
L964	V904	T844	R783	P722	ARG	V601	L541	T479	A358	M295	S234	D173	Y112
S965	S905	T845	L784	A723	SER	I602	V542	I480	Y359	G296	F235	D174	Y113
T966	L906	S846	R785	F724	THR	V603	R543	A481	E360	A297	T236	V175	Y114
F967	T907	L847	Y786	S725	ARG	E604	N544	E482	V361	A298	D237	S176	T115
R968	R908	T848	M787	S726	LYS	G604	P545	N483	F362	E299	K238	K177	G116
E969	E909	Y849	V788	F727	SER	N607	K546	L484	K363	L300	E239	I178	I117
Q970	Q910	G850	F789	F728	IIE	H608	L547	R485	I364	L301	L240	N179	G118
L971	K911	K911	K790	S729	CYS	D609	L548	Y486	I365	I302	H241	G120	A119
L972	S912	Q852	S791	K730	GLY	E610	L549	C487	D366	Y303	A242	G120	G120
S973	E913	L853	M792	V731	PRO	L611	L550	R488	N367	A304	Y243	Y121	V121
T974	T914	T854	L793	V732	HIS	M612	D551	E489	K368	S305	A244	L122	L122
L975	L855	F733	R794	G733	ASP	R613	E552	D490	P369	Y306	K245	L123	L123
A976	Y916	L856	Q795	V734	GLN	E614	A553	V491	S370	A307	A246	I186	V124



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	97.54Å 115.43Å 378.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.98 – 3.80 19.98 – 3.80	Depositor EDS
% Data completeness (in resolution range)	96.1 (19.98-3.80) 95.3 (19.98-3.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.08	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.19 (at 3.76Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.306 , 0.347 0.309 , 0.348	Depositor DCC
R_{free} test set	4245 reflections (10.21%)	wwPDB-VP
Wilson B-factor (Å ²)	132.2	Xtriage
Anisotropy	0.330	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.20 , 108.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	18352	wwPDB-VP
Average B, all atoms (Å ²)	136.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.39% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.77	12/9338 (0.1%)	1.36	157/12625 (1.2%)
1	B	0.71	3/9338 (0.0%)	1.34	168/12625 (1.3%)
All	All	0.74	15/18676 (0.1%)	1.35	325/25250 (1.3%)

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	995	ALA	C-O	-7.57	1.17	1.24
1	A	1206	SER	CA-C	-7.47	1.44	1.53
1	A	600	GLY	CA-C	7.47	1.62	1.51
1	A	852	GLN	CA-C	6.94	1.62	1.52
1	A	209	LYS	CA-C	6.74	1.61	1.52
1	A	384	ILE	CA-C	6.34	1.60	1.52
1	A	1014	ILE	CA-C	5.84	1.60	1.52
1	A	384	ILE	C-O	-5.78	1.17	1.24
1	A	825	THR	CA-C	5.48	1.59	1.52
1	B	182	ILE	CA-C	5.47	1.59	1.52
1	B	133	CYS	CA-C	-5.36	1.46	1.52
1	A	601	VAL	N-CA	5.35	1.53	1.46
1	A	1023	LYS	CA-C	5.23	1.59	1.52
1	B	248	ALA	C-O	5.21	1.30	1.24
1	A	997	ALA	CA-C	5.01	1.59	1.52

All (325) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	693	PHE	N-CA-C	17.64	132.54	111.02
1	B	292	ASN	N-CA-C	-17.62	92.15	111.36
1	A	292	ASN	N-CA-C	-16.14	91.84	111.69
1	A	573	ARG	N-CA-C	15.15	127.88	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1020	GLN	N-CA-C	13.67	131.80	111.02
1	B	213	VAL	N-CA-C	-13.04	97.32	110.62
1	A	994	TYR	N-CA-C	-12.97	88.59	108.31
1	A	64	LEU	CA-C-N	-12.59	106.92	119.64
1	A	64	LEU	C-N-CA	-12.59	106.92	119.64
1	A	363	LYS	N-CA-C	-12.55	97.23	112.54
1	B	363	LYS	N-CA-C	-11.47	98.55	112.54
1	A	159	PHE	N-CA-C	-11.38	98.04	113.18
1	B	694	TRP	N-CA-C	-11.22	96.85	112.45
1	B	327	VAL	N-CA-C	-11.07	96.55	112.04
1	A	210	LEU	N-CA-C	-10.98	99.40	113.12
1	A	1097	ILE	N-CA-C	-10.80	86.87	109.34
1	A	213	VAL	N-CA-C	-10.59	98.55	110.62
1	A	165	GLY	N-CA-C	-10.56	88.15	113.18
1	A	182	ILE	N-CA-C	10.47	120.26	110.42
1	A	378	GLY	N-CA-C	10.40	130.83	112.53
1	B	721	GLN	CA-C-N	-10.27	107.55	119.47
1	B	721	GLN	C-N-CA	-10.27	107.55	119.47
1	A	1098	LYS	N-CA-C	-10.19	89.09	110.80
1	A	327	VAL	N-CA-C	-10.17	97.80	112.04
1	A	362	PHE	N-CA-C	-10.14	101.40	113.88
1	B	211	THR	N-CA-C	-9.90	101.12	113.01
1	B	1097	ILE	N-CA-C	-9.87	93.07	107.98
1	A	296	GLY	N-CA-C	-9.84	100.82	112.83
1	A	287	LYS	N-CA-C	-9.74	98.91	112.45
1	B	1107	ALA	N-CA-C	-9.73	100.67	111.28
1	B	287	LYS	N-CA-C	-9.65	99.04	112.45
1	B	64	LEU	CA-C-N	-9.57	109.97	119.64
1	B	64	LEU	C-N-CA	-9.57	109.97	119.64
1	B	1009	GLU	N-CA-C	-9.35	93.36	108.41
1	A	1206	SER	N-CA-C	-9.35	97.26	111.56
1	A	853	LEU	N-CA-C	-9.34	90.91	110.80
1	B	133	CYS	N-CA-C	9.33	121.14	110.97
1	B	296	GLY	N-CA-C	-9.25	101.54	112.83
1	B	1014	ILE	N-CA-C	9.23	128.54	109.34
1	A	345	SER	CA-C-N	-9.16	108.88	119.05
1	A	345	SER	C-N-CA	-9.16	108.88	119.05
1	A	1150	ILE	N-CA-C	-8.93	102.24	113.22
1	B	377	SER	N-CA-C	8.93	129.82	110.80
1	A	1107	ALA	N-CA-C	-8.87	101.58	111.07
1	B	697	LEU	N-CA-C	-8.86	100.59	111.40
1	B	345	SER	CA-C-N	-8.85	109.22	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	345	SER	C-N-CA	-8.85	109.22	119.05
1	B	861	VAL	CA-C-N	-8.73	110.16	119.24
1	B	861	VAL	C-N-CA	-8.73	110.16	119.24
1	A	288	ALA	N-CA-C	-8.68	101.95	112.54
1	A	325	GLY	N-CA-C	-8.66	101.71	114.61
1	A	494	ASP	N-CA-C	-8.65	101.93	111.36
1	A	377	SER	N-CA-C	8.62	129.17	110.80
1	B	306	TYR	N-CA-C	-8.62	100.50	111.02
1	A	1121	CYS	N-CA-C	-8.60	97.74	110.46
1	A	211	THR	N-CA-C	-8.58	101.92	112.38
1	B	689	PRO	N-CA-C	8.55	121.14	110.70
1	B	578	THR	N-CA-C	8.55	123.20	108.76
1	B	960	VAL	N-CA-C	-8.55	104.99	113.20
1	B	288	ALA	N-CA-C	-8.53	102.13	112.54
1	A	697	LEU	N-CA-C	-8.46	101.08	111.40
1	B	740	PRO	N-CA-C	8.45	121.00	110.70
1	B	1121	CYS	N-CA-C	-8.44	98.35	110.59
1	A	854	THR	O-C-N	8.33	133.67	122.59
1	B	234	SER	N-CA-C	-8.33	102.16	111.07
1	A	739	GLY	CA-C-N	8.32	128.95	120.38
1	A	739	GLY	C-N-CA	8.32	128.95	120.38
1	B	450	ASP	N-CA-C	-8.29	93.14	110.80
1	A	702	THR	N-CA-C	-8.23	102.00	110.97
1	B	38	MET	N-CA-C	-8.21	101.26	111.11
1	B	1187	VAL	N-CA-C	-8.19	102.07	111.00
1	A	38	MET	N-CA-C	-8.13	101.50	111.33
1	B	1022	LEU	N-CA-C	-8.07	103.00	112.92
1	A	578	THR	N-CA-C	8.05	122.94	108.69
1	B	959	LEU	N-CA-C	8.03	127.91	110.80
1	B	376	LYS	N-CA-C	8.02	120.56	107.32
1	B	575	GLY	N-CA-C	-8.00	101.87	113.86
1	B	155	GLU	N-CA-C	7.97	123.99	109.32
1	B	325	GLY	N-CA-C	-7.97	102.06	114.10
1	B	159	PHE	N-CA-C	-7.95	102.60	113.18
1	B	739	GLY	CA-C-N	7.93	128.55	120.38
1	B	739	GLY	C-N-CA	7.93	128.55	120.38
1	A	721	GLN	CA-C-N	-7.91	110.29	119.47
1	A	721	GLN	C-N-CA	-7.91	110.29	119.47
1	B	1013	GLU	N-CA-C	7.90	127.62	110.80
1	B	480	ILE	N-CA-C	-7.86	102.88	110.42
1	A	1204	THR	N-CA-C	7.76	127.33	110.80
1	A	66	LEU	N-CA-C	-7.71	102.82	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	894	THR	N-CA-C	-7.70	102.22	111.69
1	B	182	ILE	N-CA-C	7.64	117.60	110.42
1	B	362	PHE	N-CA-C	-7.60	103.61	113.12
1	A	432	THR	N-CA-C	-7.55	103.05	111.28
1	A	305	SER	N-CA-C	-7.55	103.13	111.36
1	B	108	THR	N-CA-C	-7.53	103.00	111.14
1	A	855	LEU	N-CA-C	-7.52	103.16	111.36
1	B	1042	THR	N-CA-C	-7.50	94.82	110.80
1	B	1207	GLU	N-CA-C	-7.50	102.79	110.97
1	A	740	PRO	N-CA-C	7.46	119.80	110.70
1	A	847	LEU	N-CA-C	-7.46	102.75	111.03
1	B	164	VAL	CB-CA-C	-7.45	99.06	111.29
1	A	811	THR	N-CA-C	-7.42	103.13	111.07
1	A	910	GLN	N-CA-C	-7.42	102.88	110.97
1	A	943	ALA	N-CA-C	-7.42	103.14	111.07
1	B	1122	SER	N-CA-C	-7.41	100.72	110.43
1	B	319	SER	N-CA-C	-7.36	104.83	113.88
1	A	108	THR	N-CA-C	-7.34	103.21	111.14
1	A	1120	ASP	N-CA-C	7.32	126.38	110.80
1	B	977	ILE	N-CA-C	-7.29	103.67	110.53
1	A	178	ILE	N-CA-C	-7.26	103.70	110.53
1	B	1061	THR	N-CA-C	7.25	119.35	107.23
1	A	133	CYS	N-CA-C	7.23	119.24	111.36
1	B	221	LEU	N-CA-C	-7.15	103.42	111.07
1	B	210	LEU	N-CA-C	-7.15	102.51	112.45
1	A	125	ALA	N-CA-C	-7.15	103.18	110.97
1	B	702	THR	N-CA-C	-7.11	103.46	111.07
1	A	480	ILE	N-CA-C	-7.11	103.41	110.30
1	A	817	ASP	N-CA-C	7.08	119.61	111.11
1	A	184	ASP	N-CA-C	-7.06	103.52	111.14
1	A	922	ILE	CA-C-N	-7.05	112.91	119.82
1	A	922	ILE	C-N-CA	-7.05	112.91	119.82
1	A	861	VAL	CA-C-N	-7.04	111.92	119.24
1	A	861	VAL	C-N-CA	-7.04	111.92	119.24
1	B	1021	GLY	N-CA-C	7.01	129.81	113.18
1	B	119	ALA	N-CA-C	-7.00	102.71	111.11
1	B	1012	PRO	N-CA-C	6.96	126.81	112.47
1	A	306	TYR	N-CA-C	-6.94	102.56	111.02
1	A	370	SER	CB-CA-C	-6.90	108.60	116.54
1	A	685	ASP	N-CA-C	6.90	119.86	110.55
1	A	968	GLU	N-CA-C	6.88	119.37	111.11
1	B	736	THR	N-CA-C	-6.87	104.94	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	301	LEU	N-CA-C	-6.85	102.89	111.11
1	A	383	ASN	N-CA-C	-6.82	104.06	112.38
1	B	1098	LYS	N-CA-C	-6.82	96.28	110.80
1	B	494	ASP	N-CA-C	-6.78	103.36	111.69
1	A	468	VAL	N-CA-C	6.77	118.05	108.17
1	B	1150	ILE	N-CA-C	-6.74	103.84	113.07
1	A	977	ILE	N-CA-C	-6.73	104.20	110.53
1	B	165	GLY	N-CA-C	-6.71	97.29	113.18
1	B	847	LEU	N-CA-C	-6.68	103.69	110.97
1	A	1061	THR	N-CA-C	6.68	118.38	107.23
1	A	573	ARG	CB-CA-C	-6.66	99.53	110.85
1	B	726	VAL	N-CA-C	6.66	118.26	111.00
1	B	178	ILE	N-CA-C	-6.64	103.86	110.30
1	A	269	GLU	N-CA-C	-6.63	103.97	111.14
1	A	612	MET	N-CA-C	-6.62	103.32	111.40
1	B	612	MET	N-CA-C	-6.62	103.55	111.69
1	A	544	ASN	CA-C-N	6.57	128.05	119.84
1	A	544	ASN	C-N-CA	6.57	128.05	119.84
1	A	1082	PHE	N-CA-C	-6.56	103.40	111.40
1	B	66	LEU	N-CA-C	-6.53	104.08	111.07
1	A	1122	SER	N-CA-C	-6.50	101.91	110.43
1	A	1031	VAL	N-CA-C	6.48	117.92	108.58
1	B	1120	ASP	N-CA-C	6.46	124.56	110.80
1	A	896	ALA	N-CA-C	6.42	118.16	111.03
1	B	582	ALA	N-CA-C	6.42	116.93	107.88
1	A	1089	SER	N-CA-C	6.42	117.04	108.38
1	A	450	ASP	N-CA-C	-6.41	97.15	110.80
1	A	726	VAL	N-CA-C	6.41	117.03	110.82
1	B	250	ALA	N-CA-C	-6.40	104.73	113.30
1	A	1022	LEU	N-CA-C	-6.40	104.05	112.24
1	B	371	ILE	N-CA-C	6.39	122.63	109.34
1	B	379	HIS	N-CA-C	6.36	118.53	110.33
1	B	688	VAL	N-CA-C	6.35	117.74	107.71
1	B	804	LYS	N-CA-C	-6.34	97.29	110.80
1	A	1042	THR	N-CA-C	-6.33	97.31	110.80
1	B	85	SER	N-CA-C	-6.32	104.39	111.28
1	A	986	GLN	N-CA-C	6.30	117.81	111.07
1	B	699	LEU	N-CA-C	-6.30	104.47	111.71
1	B	212	LEU	N-CA-C	-6.29	104.66	112.90
1	A	372	ASP	N-CA-C	-6.29	105.98	113.21
1	B	1096	GLU	N-CA-C	6.29	118.20	109.15
1	B	1045	SER	N-CA-C	-6.25	104.70	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	543	ARG	N-CA-C	-6.23	104.49	111.28
1	B	1029	GLY	N-CA-C	6.23	127.94	113.18
1	B	1140	GLU	N-CA-C	-6.20	104.15	111.03
1	B	853	LEU	N-CA-C	-6.20	103.22	111.96
1	A	915	MET	N-CA-C	-6.17	103.87	111.33
1	A	85	SER	N-CA-C	-6.15	104.65	111.36
1	A	688	VAL	N-CA-C	6.15	122.17	108.88
1	A	736	THR	N-CA-C	-6.15	105.82	113.38
1	A	582	ALA	N-CA-C	6.14	117.48	108.14
1	A	1148	ALA	N-CA-C	-6.14	104.66	111.36
1	B	915	MET	N-CA-C	-6.11	103.93	111.33
1	A	917	ALA	N-CA-C	-6.08	104.76	111.82
1	A	194	ALA	N-CA-C	-6.08	104.77	111.82
1	A	972	LEU	N-CA-C	-6.06	105.38	112.89
1	B	698	LYS	N-CA-C	-6.04	104.38	110.97
1	A	401	LYS	N-CA-C	6.02	122.08	114.31
1	A	234	SER	N-CA-C	-5.99	104.66	111.07
1	B	54	THR	N-CA-C	-5.99	104.44	110.97
1	B	324	ILE	N-CA-C	5.98	119.39	113.71
1	B	1257	LEU	N-CA-C	-5.97	104.86	111.36
1	B	852	GLN	N-CA-C	-5.96	104.87	111.36
1	B	896	ALA	N-CA-C	5.96	117.64	111.03
1	A	400	ARG	N-CA-C	5.93	123.44	110.80
1	A	691	ALA	CA-C-O	5.93	121.38	117.94
1	A	1048	VAL	N-CA-C	-5.93	106.96	112.83
1	B	800	PHE	N-CA-C	-5.92	105.88	113.23
1	B	817	ASP	N-CA-C	5.92	118.22	111.11
1	B	917	ALA	N-CA-C	-5.91	104.97	111.82
1	B	114	TYR	N-CA-C	-5.90	104.85	111.28
1	B	943	ALA	N-CA-C	-5.89	104.86	111.28
1	A	854	THR	CA-C-N	-5.87	111.96	120.29
1	A	854	THR	C-N-CA	-5.87	111.96	120.29
1	A	1096	GLU	N-CA-C	5.86	123.29	110.80
1	A	267	LYS	N-CA-C	5.86	123.28	110.80
1	B	1207	GLU	CA-C-N	-5.85	110.36	121.54
1	B	1207	GLU	C-N-CA	-5.85	110.36	121.54
1	B	588	VAL	N-CA-C	-5.81	106.04	111.45
1	A	849	TYR	N-CA-C	-5.77	101.73	110.28
1	A	155	GLU	N-CA-C	5.77	123.09	110.80
1	B	894	THR	N-CA-C	-5.76	104.60	111.69
1	B	811	THR	N-CA-C	-5.75	104.21	111.11
1	B	968	GLU	N-CA-C	5.74	118.00	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	114	TYR	N-CA-C	-5.72	105.04	111.28
1	A	319	SER	N-CA-C	-5.71	106.45	113.41
1	A	686	GLU	N-CA-C	5.71	122.96	110.80
1	A	615	LYS	N-CA-C	-5.70	105.62	112.58
1	B	400	ARG	N-CA-C	5.70	122.94	110.80
1	B	262	ALA	N-CA-C	-5.70	106.37	113.15
1	B	846	SER	N-CA-C	-5.68	105.08	112.23
1	A	156	ILE	N-CA-C	5.66	121.12	109.34
1	A	506	TYR	N-CA-C	5.66	119.00	111.75
1	B	261	ILE	N-CA-C	-5.66	104.83	111.00
1	A	846	SER	N-CA-C	-5.65	105.89	112.89
1	A	538	ALA	N-CA-C	-5.65	105.03	111.07
1	B	740	PRO	CA-C-N	-5.63	114.45	120.03
1	B	740	PRO	C-N-CA	-5.63	114.45	120.03
1	B	1083	TYR	N-CA-C	-5.63	100.22	109.40
1	A	437	GLN	N-CA-C	-5.62	104.65	113.02
1	B	1048	VAL	N-CA-C	-5.59	106.37	112.80
1	A	738	GLY	N-CA-C	5.58	118.12	110.69
1	B	865	ALA	N-CA-C	-5.56	105.12	111.07
1	A	436	MET	N-CA-C	-5.55	105.70	113.37
1	A	74	MET	N-CA-C	-5.55	105.31	111.36
1	A	1257	LEU	N-CA-C	-5.55	105.23	111.28
1	B	1220	GLY	N-CA-C	-5.55	100.03	113.18
1	B	506	TYR	N-CA-C	5.55	118.09	111.71
1	B	1019	THR	CA-C-N	-5.54	115.84	122.44
1	B	1019	THR	C-N-CA	-5.54	115.84	122.44
1	B	125	ALA	N-CA-C	-5.54	104.88	111.03
1	A	1017	TYR	N-CA-C	-5.54	99.00	110.80
1	A	699	LEU	N-CA-C	-5.53	105.35	111.71
1	A	546	LYS	N-CA-C	-5.51	106.40	114.39
1	B	127	ILE	N-CA-C	5.50	115.70	110.42
1	B	1153	PHE	N-CA-C	-5.50	106.70	113.41
1	A	746	GLN	N-CA-C	-5.49	105.20	111.07
1	B	910	GLN	N-CA-C	-5.47	104.34	111.02
1	B	505	ALA	N-CA-C	-5.47	106.52	114.12
1	A	250	ALA	N-CA-C	-5.47	106.28	113.17
1	B	1258	ALA	N-CA-C	-5.47	104.55	111.11
1	A	689	PRO	N-CA-C	5.46	117.36	110.70
1	A	221	LEU	N-CA-C	-5.45	105.24	111.07
1	A	393	ILE	N-CA-C	5.44	115.69	107.80
1	A	119	ALA	N-CA-C	-5.44	104.58	111.11
1	B	74	MET	N-CA-C	-5.42	105.28	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	427	CYS	CA-C-N	-5.41	110.81	121.41
1	A	427	CYS	C-N-CA	-5.41	110.81	121.41
1	B	110	TYR	N-CA-C	-5.39	105.30	111.07
1	A	543	ARG	N-CA-C	-5.39	105.51	111.71
1	A	1080	GLU	N-CA-C	-5.37	106.80	113.19
1	A	95	ASP	N-CA-C	-5.36	105.00	112.45
1	A	1140	GLU	N-CA-C	-5.36	105.08	111.03
1	B	903	VAL	N-CA-C	-5.36	105.95	112.76
1	A	1100	LEU	N-CA-C	-5.35	100.58	108.99
1	A	852	GLN	CA-C-O	5.34	128.15	120.51
1	A	1200	SER	N-CA-C	-5.32	104.50	112.54
1	A	364	ILE	N-CA-C	-5.32	104.85	112.35
1	B	624	THR	N-CA-C	-5.32	105.48	111.28
1	B	922	ILE	CA-C-N	-5.31	113.20	119.84
1	B	922	ILE	C-N-CA	-5.31	113.20	119.84
1	B	1012	PRO	CA-C-N	5.30	131.67	121.54
1	B	1012	PRO	C-N-CA	5.30	131.67	121.54
1	B	478	THR	N-CA-C	5.30	114.83	107.73
1	A	573	ARG	CA-C-N	-5.28	113.20	120.28
1	A	573	ARG	C-N-CA	-5.28	113.20	120.28
1	A	205	THR	CA-C-N	-5.28	115.40	122.42
1	A	205	THR	C-N-CA	-5.28	115.40	122.42
1	B	394	HIS	N-CA-C	-5.28	101.67	110.17
1	A	1269	VAL	N-CA-C	-5.28	104.91	112.35
1	B	726	VAL	CB-CA-C	-5.27	105.18	112.24
1	B	1228	HIS	N-CA-C	-5.27	106.09	112.88
1	B	1148	ALA	N-CA-C	-5.26	105.72	111.82
1	A	1223	CYS	CA-CB-SG	5.26	126.50	114.40
1	B	301	LEU	N-CA-C	-5.23	104.84	111.11
1	B	708	VAL	N-CA-C	-5.22	104.52	111.05
1	B	186	ILE	N-CA-C	-5.21	105.24	110.30
1	B	364	ILE	N-CA-C	-5.21	105.00	112.35
1	B	1028	GLU	CB-CA-C	-5.21	100.05	110.42
1	A	134	LEU	N-CA-C	-5.21	102.78	111.37
1	B	544	ASN	CA-C-N	5.21	126.35	119.84
1	B	544	ASN	C-N-CA	5.21	126.35	119.84
1	B	1211	GLN	N-CA-C	-5.21	105.78	111.82
1	B	1018	SER	N-CA-C	5.19	116.03	108.14
1	B	1269	VAL	N-CA-C	-5.19	105.03	112.35
1	B	788	VAL	CB-CA-C	-5.18	105.24	112.02
1	A	262	ALA	N-CA-C	-5.16	106.96	113.20
1	A	212	LEU	N-CA-C	-5.14	106.16	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	282	ARG	N-CA-C	-5.14	99.85	110.80
1	B	615	LYS	N-CA-C	-5.12	106.98	113.23
1	B	1080	GLU	N-CA-C	-5.12	107.10	113.19
1	B	1200	SER	N-CA-C	-5.12	104.81	112.54
1	B	1010	LYS	N-CA-C	-5.12	99.90	110.80
1	B	546	LYS	N-CA-C	-5.12	106.97	114.39
1	A	124	VAL	N-CA-C	5.11	119.20	112.04
1	B	341	VAL	N-CA-C	-5.11	104.66	111.05
1	B	401	LYS	N-CA-C	5.10	121.20	114.12
1	A	1010	LYS	N-CA-C	5.09	121.65	110.80
1	A	708	VAL	N-CA-C	-5.09	104.68	111.05
1	B	1113	SER	N-CA-C	5.09	116.41	109.18
1	B	592	ASP	N-CA-C	-5.09	105.86	111.71
1	B	270	LEU	CA-C-N	-5.07	113.70	120.54
1	B	270	LEU	C-N-CA	-5.07	113.70	120.54
1	A	774	GLY	N-CA-C	-5.06	106.63	112.50
1	B	899	ASN	N-CA-C	5.06	118.94	112.26
1	A	291	ALA	N-CA-C	-5.06	107.50	113.97
1	A	456	THR	N-CA-C	5.05	117.52	111.71
1	B	305	SER	N-CA-C	-5.05	105.77	111.28
1	B	468	VAL	N-CA-C	5.04	115.91	108.45
1	A	54	THR	N-CA-C	-5.03	104.88	111.02
1	B	1255	GLN	N-CA-C	-5.03	105.88	111.36
1	A	1227	ALA	N-CA-C	5.02	114.96	107.88
1	B	686	GLU	N-CA-C	5.02	116.95	108.02
1	A	800	PHE	N-CA-C	-5.01	107.02	113.23
1	B	1015	ASP	N-CA-C	5.00	121.45	110.80

There are no chirality outliers.

There are no planarity outliers.

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	9170	0	9338	2487	1
1	B	9170	0	9337	2367	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	6	0	0	0	0
2	B	6	0	0	0	0
All	All	18352	0	18675	4841	1

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 131.

All (4841) 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:B:830:ALA:HB2	1:B:990:PHE:CE2	1.25	1.61
1:B:830:ALA:CB	1:B:990:PHE:CE2	2.06	1.36
1:B:830:ALA:CB	1:B:990:PHE:HE2	1.38	1.36
1:B:263:PHE:HE2	1:B:266:GLN:NE2	1.32	1.27
1:A:856:LEU:HD13	1:A:955:PHE:CD1	1.70	1.25
1:A:257:ILE:HG12	1:A:800:PHE:CE2	1.72	1.24
1:B:858:LEU:O	1:B:862:PRO:HD2	1.32	1.24
1:B:908:ARG:HD2	1:B:909:GLU:N	1.53	1.24
1:A:1090:VAL:HG13	1:A:1097:ILE:O	1.29	1.23
1:A:1022:LEU:HD23	1:A:1022:LEU:O	1.36	1.22
1:B:35:VAL:HG12	1:B:359:TYR:CE2	1.74	1.22
1:A:59:ILE:CD1	1:A:124:VAL:HG11	1.69	1.20
1:A:908:ARG:HD2	1:A:909:GLU:N	1.57	1.19
1:A:858:LEU:O	1:A:862:PRO:HD2	1.37	1.18
1:A:1205:GLU:O	1:A:1209:VAL:HG12	1.41	1.18
1:B:996:LYS:H	1:B:996:LYS:HD3	1.01	1.18
1:A:976:ALA:HA	1:A:979:PHE:CD2	1.77	1.17
1:A:478:THR:HG22	1:A:479:THR:H	1.08	1.17
1:B:851:TRP:O	1:B:855:LEU:HB3	1.45	1.17
1:B:375:SER:C	1:B:376:LYS:HD2	1.69	1.17
1:A:694:TRP:O	1:A:697:LEU:HG	1.42	1.16
1:B:253:VAL:O	1:B:254:LEU:HD13	1.42	1.16
1:A:217:ILE:HD12	1:A:218:SER:H	1.08	1.16
1:A:376:LYS:NZ	1:A:377:SER:HB2	1.61	1.16
1:A:376:LYS:HD2	1:A:377:SER:N	1.61	1.16
1:A:512:LEU:HD11	1:A:518:THR:HG21	1.18	1.16
1:A:35:VAL:HG12	1:A:359:TYR:CE2	1.79	1.16
1:A:206:ARG:O	1:A:211:THR:HB	1.43	1.16
1:A:1016:SER:O	1:A:1017:TYR:CD1	1.96	1.16
1:A:853:LEU:CD1	1:A:856:LEU:HD23	1.75	1.16
1:B:512:LEU:HD11	1:B:518:THR:HG21	1.19	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:603:VAL:HG23	1:A:604:GLU:H	1.08	1.15
1:A:958:TYR:O	1:A:966:THR:HG21	1.42	1.15
1:A:156:ILE:H	1:A:156:ILE:CD1	1.53	1.15
1:A:838:ASN:C	1:A:838:ASN:HD22	1.53	1.15
1:A:156:ILE:HD12	1:A:156:ILE:N	1.56	1.14
1:B:279:GLU:HG2	1:B:782:LYS:HZ2	1.11	1.14
1:B:976:ALA:HA	1:B:979:PHE:CD2	1.81	1.14
1:B:208:TRP:O	1:B:209:LYS:HE3	1.44	1.14
1:A:253:VAL:O	1:A:254:LEU:HD13	1.47	1.14
1:A:857:LEU:HD21	1:A:861:VAL:CG2	1.77	1.13
1:A:942:GLN:O	1:A:945:MET:HB3	1.44	1.13
1:B:314:THR:HG23	1:B:327:VAL:HG21	1.26	1.13
1:B:278:GLU:O	1:B:282:ARG:HG2	1.47	1.13
1:A:405:ILE:CG2	1:A:427:CYS:O	1.96	1.12
1:B:155:GLU:HB3	1:B:156:ILE:HD12	1.30	1.12
1:A:35:VAL:HG23	1:A:36:LEU:H	1.06	1.12
1:A:919:SER:O	1:A:923:PRO:HD2	1.49	1.12
1:B:907:THR:N	1:B:908:ARG:HH11	1.47	1.12
1:B:991:ALA:HB1	1:B:992:PRO:HD2	1.19	1.12
1:A:1144:ALA:HB2	1:A:1187:VAL:HG22	1.30	1.12
1:B:35:VAL:HG23	1:B:36:LEU:H	1.09	1.12
1:A:361:VAL:O	1:A:365:ILE:HG13	1.49	1.11
1:B:263:PHE:CE2	1:B:266:GLN:NE2	2.12	1.11
1:A:107:MET:HE2	1:A:954:ARG:HD2	1.34	1.10
1:A:1016:SER:O	1:A:1017:TYR:CG	2.04	1.10
1:B:396:SER:H	1:B:443:LEU:HD12	1.05	1.10
1:B:361:VAL:O	1:B:365:ILE:HG13	1.52	1.10
1:B:478:THR:HG22	1:B:479:THR:H	1.01	1.10
1:A:426:GLY:O	1:A:599:GLY:HA2	1.49	1.09
1:B:405:ILE:H	1:B:405:ILE:HD12	1.17	1.09
1:B:964:LEU:HD22	1:B:965:MET:H	1.08	1.09
1:B:1014:ILE:O	1:B:1015:ASP:HB2	1.49	1.09
1:A:286:LYS:HA	1:A:289:ILE:HB	1.11	1.09
1:B:217:ILE:HD12	1:B:218:SER:H	1.09	1.09
1:B:286:LYS:HA	1:B:289:ILE:HB	1.15	1.09
1:A:853:LEU:HD13	1:A:856:LEU:CD2	1.82	1.09
1:A:908:ARG:HD2	1:A:909:GLU:H	0.95	1.09
1:A:1193:LEU:HB2	1:A:1223:CYS:HB2	1.27	1.09
1:B:285:ILE:O	1:B:289:ILE:HG12	1.53	1.09
1:A:278:GLU:O	1:A:282:ARG:HG2	1.53	1.08
1:A:857:LEU:HD21	1:A:861:VAL:HG23	1.10	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:411:LEU:HD23	1:B:412:LYS:N	1.68	1.08
1:B:901:ARG:H	1:B:901:ARG:HD3	1.17	1.08
1:B:1091:PHE:CE1	1:B:1096:GLU:HA	1.89	1.08
1:A:59:ILE:HD11	1:A:124:VAL:CG1	1.84	1.08
1:A:851:TRP:O	1:A:852:GLN:CD	1.97	1.08
1:B:178:ILE:HD12	1:B:358:ALA:HB2	1.34	1.08
1:A:826:GLY:HA2	1:A:829:LEU:HD12	1.23	1.07
1:B:246:ALA:HB1	1:B:277:LEU:HB3	1.09	1.07
1:B:1095:LYS:H	1:B:1095:LYS:HD2	0.93	1.07
1:A:178:ILE:HD12	1:A:358:ALA:HB2	1.28	1.07
1:A:285:ILE:O	1:A:289:ILE:HG12	1.55	1.07
1:B:156:ILE:HD12	1:B:156:ILE:N	1.68	1.07
1:A:548:LEU:HD22	1:A:550:LEU:HD11	1.32	1.07
1:A:1090:VAL:HG22	1:A:1097:ILE:HB	1.09	1.07
1:A:35:VAL:O	1:A:39:PHE:HB2	1.55	1.07
1:B:603:VAL:HG23	1:B:604:GLU:H	1.01	1.07
1:A:1091:PHE:CE1	1:A:1096:GLU:N	2.21	1.06
1:B:286:LYS:HA	1:B:289:ILE:CB	1.83	1.06
1:A:286:LYS:HA	1:A:289:ILE:CB	1.84	1.06
1:A:286:LYS:CA	1:A:289:ILE:HB	1.84	1.06
1:B:714:ALA:HB1	1:B:833:PHE:HB2	1.36	1.06
1:B:1046:ILE:HG22	1:B:1047:PRO:N	1.66	1.06
1:A:1022:LEU:O	1:A:1022:LEU:CD2	2.02	1.06
1:B:471:GLN:HG2	1:B:472:GLU:H	1.19	1.05
1:B:493:MET:HA	1:B:496:ILE:HD13	1.35	1.05
1:A:376:LYS:HD2	1:A:377:SER:H	0.88	1.05
1:A:405:ILE:HG23	1:A:427:CYS:O	1.54	1.05
1:A:1038:PHE:C	1:A:1047:PRO:HB3	1.80	1.05
1:B:919:SER:O	1:B:923:PRO:HD2	1.57	1.05
1:A:901:ARG:HD3	1:A:901:ARG:H	1.17	1.05
1:B:826:GLY:HA2	1:B:829:LEU:HD12	1.32	1.05
1:B:210:LEU:HA	1:B:213:VAL:HG23	1.37	1.05
1:B:35:VAL:O	1:B:39:PHE:HB2	1.55	1.04
1:B:286:LYS:CA	1:B:289:ILE:HB	1.87	1.04
1:B:1144:ALA:HB2	1:B:1187:VAL:HG22	1.33	1.04
1:B:387:ASN:HD22	1:B:414:LYS:HA	1.23	1.04
1:A:210:LEU:HD23	1:A:317:VAL:HG11	1.36	1.04
1:A:267:LYS:HA	1:A:270:LEU:HD11	1.36	1.04
1:B:830:ALA:HB2	1:B:990:PHE:CD2	1.92	1.04
1:B:1204:THR:HG22	1:B:1205:GLU:H	0.94	1.04
1:B:1252:THR:HG23	1:B:1255:GLN:HB2	1.38	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:718:GLY:CA	1:A:837:ALA:HB2	1.87	1.03
1:B:523:ARG:HD3	1:B:524:GLY:H	1.22	1.03
1:A:853:LEU:O	1:A:856:LEU:N	1.91	1.03
1:B:107:MET:HE2	1:B:954:ARG:HD2	1.35	1.03
1:B:779:ILE:HG13	1:B:780:LEU:H	1.17	1.03
1:B:304:ALA:HB2	1:B:758:LEU:HD22	1.05	1.03
1:A:964:LEU:HD13	1:A:965:MET:N	1.73	1.02
1:B:163:ASP:HB2	1:B:166:GLU:HB3	1.38	1.02
1:A:907:THR:N	1:A:908:ARG:HH11	1.56	1.02
1:A:1039:ASN:HB2	1:A:1047:PRO:HA	1.36	1.02
1:B:59:ILE:CD1	1:B:124:VAL:HG11	1.90	1.02
1:B:1204:THR:HG22	1:B:1205:GLU:N	1.73	1.02
1:A:1039:ASN:ND2	1:A:1046:ILE:O	1.92	1.02
1:B:718:GLY:CA	1:B:837:ALA:HB2	1.90	1.02
1:B:838:ASN:C	1:B:838:ASN:HD22	1.63	1.02
1:B:156:ILE:H	1:B:156:ILE:CD1	1.63	1.01
1:B:390:PHE:HE1	1:B:432:THR:HB	1.25	1.01
1:A:856:LEU:HD13	1:A:955:PHE:HD1	1.05	1.01
1:A:1193:LEU:HB2	1:A:1223:CYS:CB	1.91	1.01
1:B:1095:LYS:HD2	1:B:1095:LYS:N	1.72	1.01
1:A:239:GLU:HG3	1:A:288:ALA:HB2	1.42	1.01
1:A:851:TRP:O	1:A:852:GLN:NE2	1.94	1.01
1:A:1090:VAL:HG22	1:A:1097:ILE:CB	1.90	1.01
1:B:1223:CYS:O	1:B:1223:CYS:SG	2.17	1.01
1:A:246:ALA:HB1	1:A:277:LEU:HB3	1.02	1.01
1:A:265:GLY:HA3	1:A:793:LEU:HD11	1.41	1.01
1:A:1058:LYS:O	1:A:1060:GLN:HG3	1.60	1.01
1:A:1122:SER:HA	1:A:1164:ARG:HA	1.37	1.01
1:B:907:THR:H	1:B:908:ARG:NH1	1.57	1.01
1:A:204:PHE:O	1:A:211:THR:HG21	1.61	1.00
1:A:268:LYS:O	1:A:268:LYS:HD3	1.60	1.00
1:A:471:GLN:HG2	1:A:472:GLU:H	1.22	1.00
1:A:573:ARG:HB3	1:A:578:THR:HG21	1.44	1.00
1:A:1096:GLU:HB3	1:A:1098:LYS:HB3	1.41	1.00
1:B:1144:ALA:HA	1:B:1186:LEU:HD11	1.43	1.00
1:A:792:MET:HE3	1:A:810:LEU:HD22	1.40	1.00
1:B:958:TYR:O	1:B:966:THR:OG1	1.77	1.00
1:B:796:ASP:O	1:B:797:VAL:O	1.78	1.00
1:B:1122:SER:HA	1:B:1164:ARG:HA	1.38	1.00
1:A:211:THR:O	1:A:214:ILE:HB	1.61	1.00
1:A:1110:GLY:HA3	1:A:1193:LEU:HD22	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:942:GLN:O	1:B:945:MET:HB3	1.62	1.00
1:B:156:ILE:HD12	1:B:156:ILE:H	0.84	1.00
1:A:35:VAL:CG2	1:A:36:LEU:H	1.74	1.00
1:B:59:ILE:HD11	1:B:124:VAL:HG11	1.02	1.00
1:B:304:ALA:HB2	1:B:758:LEU:CD2	1.92	1.00
1:B:1028:GLU:O	1:B:1093:ASP:OD1	1.78	1.00
1:B:1046:ILE:HG23	1:B:1047:PRO:HD2	1.42	1.00
1:B:908:ARG:HD2	1:B:909:GLU:H	0.85	0.99
1:B:797:VAL:HG12	1:B:798:SER:H	1.28	0.99
1:A:210:LEU:HA	1:A:213:VAL:HG23	1.44	0.99
1:A:1252:THR:HG23	1:A:1255:GLN:HB2	1.40	0.99
1:B:278:GLU:C	1:B:282:ARG:HG2	1.86	0.99
1:B:35:VAL:CG2	1:B:36:LEU:H	1.75	0.99
1:B:239:GLU:HG3	1:B:288:ALA:HB2	1.43	0.99
1:B:407:LYS:HZ1	1:B:601:VAL:HA	1.28	0.99
1:A:35:VAL:HG23	1:A:36:LEU:N	1.70	0.99
1:B:267:LYS:H	1:B:270:LEU:HD21	1.24	0.99
1:A:35:VAL:HG12	1:A:359:TYR:HE2	1.19	0.99
1:B:1204:THR:CG2	1:B:1205:GLU:H	1.73	0.99
1:B:830:ALA:CB	1:B:990:PHE:CD2	2.44	0.99
1:B:396:SER:N	1:B:443:LEU:HD12	1.78	0.98
1:B:850:GLY:O	1:B:852:GLN:N	1.95	0.98
1:A:156:ILE:HG12	1:A:439:LEU:O	1.61	0.98
1:A:857:LEU:CD2	1:A:861:VAL:HG23	1.92	0.98
1:A:1039:ASN:HB2	1:A:1047:PRO:CA	1.93	0.98
1:A:1090:VAL:CG2	1:A:1097:ILE:HB	1.92	0.98
1:B:697:LEU:O	1:B:700:ASN:HB2	1.64	0.98
1:B:71:PHE:HA	1:B:74:MET:HE3	1.45	0.98
1:A:385:GLN:NE2	1:A:386:GLY:H	1.62	0.98
1:A:1138:TYR:O	1:A:1141:ILE:HG12	1.63	0.98
1:A:994:TYR:O	1:A:996:LYS:NZ	1.96	0.98
1:A:853:LEU:HA	1:A:856:LEU:HB3	1.46	0.98
1:B:399:SER:HB2	1:B:402:GLU:OE2	1.64	0.98
1:B:849:TYR:HB3	1:B:854:THR:OG1	1.63	0.98
1:A:396:SER:H	1:A:443:LEU:HD12	1.27	0.98
1:B:267:LYS:N	1:B:270:LEU:HD21	1.79	0.98
1:A:721:GLN:HG2	1:A:982:MET:HE3	1.45	0.97
1:B:762:SER:O	1:B:765:THR:HG22	1.64	0.97
1:A:1205:GLU:O	1:A:1209:VAL:CG1	2.11	0.97
1:B:1039:ASN:HB2	1:B:1047:PRO:HA	1.41	0.97
1:B:1010:LYS:O	1:B:1011:THR:HG23	1.64	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:387:ASN:HD22	1:A:414:LYS:HA	1.28	0.97
1:B:1153:PHE:HA	1:B:1157:LEU:HD23	1.45	0.97
1:B:318:ILE:O	1:B:318:ILE:HD13	1.63	0.97
1:A:964:LEU:HD22	1:A:965:MET:H	1.30	0.97
1:A:543:ARG:HH21	1:A:907:THR:HG23	1.27	0.97
1:B:35:VAL:HG23	1:B:36:LEU:N	1.70	0.97
1:A:853:LEU:HG	1:A:973:VAL:HG21	1.46	0.96
1:B:61:GLY:O	1:B:65:PRO:HD2	1.64	0.96
1:A:246:ALA:HB1	1:A:277:LEU:CB	1.94	0.96
1:A:386:GLY:HA3	1:A:450:ASP:HA	1.47	0.96
1:B:779:ILE:HG13	1:B:780:LEU:N	1.73	0.96
1:B:908:ARG:CD	1:B:909:GLU:H	1.79	0.96
1:B:1193:LEU:HB2	1:B:1223:CYS:HB2	1.48	0.96
1:B:35:VAL:HA	1:B:359:TYR:CD2	2.00	0.96
1:B:1218:ARG:HH22	1:B:1235:ASN:HD22	1.14	0.96
1:A:34:SER:HA	1:A:38:MET:HB2	1.48	0.95
1:B:519:LEU:HD13	1:B:519:LEU:H	1.31	0.95
1:B:851:TRP:HA	1:B:854:THR:HB	1.48	0.95
1:B:1048:VAL:HG23	1:B:1049:LEU:HD22	1.47	0.95
1:B:543:ARG:HH21	1:B:907:THR:HG23	1.24	0.95
1:B:786:TYR:HE2	1:B:790:LYS:HZ2	1.06	0.95
1:B:1095:LYS:H	1:B:1095:LYS:CD	1.79	0.95
1:A:331:PHE:O	1:A:334:VAL:HG12	1.65	0.95
1:A:1243:GLN:O	1:A:1246:LYS:HD2	1.65	0.95
1:A:71:PHE:HA	1:A:74:MET:HE3	1.44	0.95
1:A:1153:PHE:HA	1:A:1157:LEU:HD23	1.49	0.95
1:A:267:LYS:HB3	1:A:790:LYS:HE2	1.49	0.95
1:B:172:THR:O	1:B:175:VAL:HG12	1.67	0.95
1:B:603:VAL:HG23	1:B:604:GLU:N	1.82	0.95
1:A:405:ILE:HD12	1:A:405:ILE:H	1.28	0.94
1:B:210:LEU:HD23	1:B:317:VAL:HG11	1.48	0.94
1:A:697:LEU:O	1:A:700:ASN:HB2	1.67	0.94
1:B:909:GLU:HA	1:B:909:GLU:OE2	1.66	0.94
1:B:1110:GLY:HA3	1:B:1193:LEU:HD22	1.47	0.94
1:A:110:TYR:HA	1:A:113:TYR:HD2	1.33	0.94
1:B:1046:ILE:CG2	1:B:1047:PRO:N	2.28	0.94
1:A:163:ASP:HB2	1:A:166:GLU:HB3	1.46	0.94
1:A:267:LYS:N	1:A:270:LEU:HD21	1.82	0.94
1:A:908:ARG:O	1:A:911:LYS:HB3	1.66	0.94
1:B:1038:PHE:C	1:B:1047:PRO:HB3	1.93	0.94
1:A:278:GLU:C	1:A:282:ARG:HG2	1.93	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:315:SER:O	1:A:318:ILE:HG22	1.68	0.94
1:A:362:PHE:HA	1:A:365:ILE:HB	1.49	0.94
1:A:411:LEU:HD23	1:A:412:LYS:N	1.83	0.94
1:A:798:SER:HA	1:A:801:ASP:HB2	1.47	0.94
1:B:1014:ILE:O	1:B:1014:ILE:HG12	1.63	0.94
1:B:395:PHE:HA	1:B:443:LEU:HB2	1.50	0.94
1:B:282:ARG:O	1:B:286:LYS:HD3	1.69	0.93
1:A:35:VAL:HA	1:A:359:TYR:CD2	2.02	0.93
1:A:523:ARG:HD3	1:A:524:GLY:H	1.31	0.93
1:A:1081:ARG:NH1	1:A:1098:LYS:O	2.00	0.93
1:B:59:ILE:HD11	1:B:124:VAL:CG1	1.97	0.93
1:A:1063:ALA:HB2	1:A:1236:ALA:HB1	1.51	0.93
1:B:304:ALA:CB	1:B:758:LEU:HD22	1.97	0.93
1:A:512:LEU:HD12	1:A:513:PRO:CD	1.98	0.93
1:A:711:ILE:HD11	1:A:832:ILE:HD13	1.50	0.93
1:B:279:GLU:HG2	1:B:782:LYS:NZ	1.84	0.93
1:A:214:ILE:HD11	1:A:330:VAL:HB	1.49	0.93
1:A:395:PHE:HA	1:A:443:LEU:HB2	1.50	0.93
1:A:762:SER:O	1:A:765:THR:HG22	1.68	0.93
1:A:379:HIS:HB3	1:A:457:ILE:HA	1.48	0.93
1:A:288:ALA:HA	1:A:291:ALA:HB3	1.48	0.93
1:A:1000:SER:O	1:A:1004:ILE:HG22	1.69	0.93
1:A:1038:PHE:O	1:A:1047:PRO:HB3	1.69	0.93
1:B:1058:LYS:O	1:B:1060:GLN:HG3	1.68	0.93
1:B:780:LEU:O	1:B:784:LEU:HB2	1.68	0.93
1:B:798:SER:HA	1:B:801:ASP:HB2	1.51	0.93
1:A:409:LEU:HD22	1:A:410:ASN:N	1.84	0.93
1:B:35:VAL:HG12	1:B:359:TYR:HE2	1.30	0.93
1:B:1039:ASN:HB2	1:B:1047:PRO:CA	1.99	0.93
1:A:151:ILE:HD12	1:A:167:LEU:HD11	1.47	0.93
1:B:1020:GLN:CD	1:B:1020:GLN:H	1.76	0.93
1:A:1094:GLY:C	1:A:1095:LYS:HG3	1.92	0.92
1:A:1094:GLY:O	1:A:1095:LYS:HG3	1.69	0.92
1:B:718:GLY:HA3	1:B:837:ALA:HB2	1.49	0.92
1:B:958:TYR:O	1:B:966:THR:CB	2.16	0.92
1:A:991:ALA:HB1	1:A:992:PRO:HD2	1.51	0.92
1:B:191:GLN:O	1:B:195:THR:HG22	1.69	0.92
1:A:696:ILE:HG22	1:A:1005:ILE:HD12	1.51	0.92
1:A:718:GLY:HA3	1:A:837:ALA:HB2	1.50	0.92
1:A:1144:ALA:HA	1:A:1186:LEU:HD11	1.52	0.92
1:A:246:ALA:CB	1:A:277:LEU:HB3	1.97	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:779:ILE:HG13	1:A:780:LEU:N	1.81	0.92
1:A:1048:VAL:HG23	1:A:1049:LEU:HD22	1.50	0.92
1:A:1090:VAL:CG1	1:A:1097:ILE:O	2.17	0.92
1:A:1211:GLN:O	1:A:1215:ASP:HB2	1.69	0.92
1:A:133:CYS:SG	1:A:931:ALA:HA	2.09	0.92
1:A:279:GLU:HG2	1:A:782:LYS:NZ	1.83	0.92
1:A:384:ILE:HG22	1:A:385:GLN:H	1.33	0.92
1:B:357:ALA:O	1:B:361:VAL:HG22	1.70	0.92
1:B:409:LEU:HD22	1:B:410:ASN:N	1.85	0.92
1:B:1063:ALA:HB2	1:B:1236:ALA:HB1	1.52	0.92
1:A:61:GLY:O	1:A:65:PRO:HD2	1.68	0.92
1:A:857:LEU:HD11	1:A:977:ILE:HA	1.51	0.91
1:A:992:PRO:O	1:A:994:TYR:N	2.03	0.91
1:B:217:ILE:HD12	1:B:218:SER:N	1.85	0.91
1:A:1004:ILE:HD13	1:A:1004:ILE:C	1.96	0.91
1:B:209:LYS:O	1:B:212:LEU:HB3	1.69	0.91
1:B:996:LYS:HD3	1:B:996:LYS:N	1.85	0.91
1:A:376:LYS:HZ3	1:A:377:SER:HB2	1.32	0.91
1:B:996:LYS:H	1:B:996:LYS:CD	1.83	0.91
1:B:1015:ASP:H	1:B:1017:TYR:HE1	1.09	0.91
1:B:291:ALA:HA	1:B:294:SER:HB2	1.50	0.91
1:A:185:LYS:HZ2	1:A:186:ILE:N	1.68	0.91
1:A:853:LEU:HD13	1:A:856:LEU:HD23	1.43	0.91
1:B:362:PHE:HA	1:B:365:ILE:HB	1.51	0.91
1:A:282:ARG:O	1:A:286:LYS:HB2	1.70	0.91
1:A:311:TRP:CD1	1:A:754:LEU:HD13	2.06	0.91
1:A:1091:PHE:CD1	1:A:1096:GLU:N	2.39	0.91
1:B:1123:ILE:HD11	1:B:1161:TYR:HA	1.52	0.91
1:A:257:ILE:HG12	1:A:800:PHE:HE2	1.15	0.90
1:A:1026:MET:HE3	1:A:1095:LYS:HE2	1.53	0.90
1:A:438:ARG:HH11	1:A:438:ARG:HG3	1.36	0.90
1:A:519:LEU:H	1:A:519:LEU:HD13	1.37	0.90
1:B:603:VAL:CG2	1:B:604:GLU:H	1.85	0.90
1:B:1046:ILE:HG23	1:B:1047:PRO:CD	2.00	0.90
1:A:1096:GLU:HB2	1:A:1099:GLN:NE2	1.86	0.90
1:B:1173:SER:HB3	1:B:1176:GLN:OE1	1.71	0.90
1:A:1258:ALA:O	1:A:1260:LYS:HD2	1.69	0.90
1:B:1010:LYS:H	1:B:1010:LYS:HD2	1.35	0.90
1:A:786:TYR:HE2	1:A:790:LYS:HZ2	1.19	0.90
1:B:478:THR:CG2	1:B:479:THR:H	1.85	0.90
1:A:385:GLN:CD	1:A:386:GLY:H	1.79	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:478:THR:HG22	1:B:479:THR:N	1.82	0.90
1:A:155:GLU:HB3	1:A:156:ILE:HD12	1.54	0.90
1:A:238:LYS:HE2	1:A:238:LYS:O	1.72	0.90
1:A:1173:SER:HB3	1:A:1176:GLN:OE1	1.72	0.90
1:B:795:GLN:O	1:B:796:ASP:HB3	1.72	0.90
1:B:1091:PHE:CE1	1:B:1096:GLU:HG2	2.06	0.90
1:B:1258:ALA:O	1:B:1260:LYS:HD2	1.72	0.90
1:A:1137:SER:OG	1:A:1140:GLU:HB2	1.72	0.89
1:B:548:LEU:HD22	1:B:550:LEU:HD11	1.53	0.89
1:B:995:ALA:H	1:B:996:LYS:HZ1	1.18	0.89
1:A:59:ILE:HD11	1:A:124:VAL:HG11	0.90	0.89
1:B:211:THR:O	1:B:214:ILE:HB	1.73	0.89
1:A:396:SER:N	1:A:443:LEU:HD12	1.87	0.89
1:A:1218:ARG:HH22	1:A:1235:ASN:HD22	1.20	0.89
1:A:1234:GLN:HG2	1:A:1253:HIS:CD2	2.07	0.89
1:B:523:ARG:CD	1:B:524:GLY:H	1.84	0.89
1:A:1123:ILE:HD11	1:A:1161:TYR:HA	1.54	0.89
1:A:996:LYS:H	1:A:996:LYS:HD3	1.36	0.89
1:A:282:ARG:O	1:A:286:LYS:HD3	1.72	0.89
1:B:270:LEU:HD23	1:B:270:LEU:H	1.37	0.89
1:A:853:LEU:HD12	1:A:856:LEU:HD23	1.52	0.89
1:B:385:GLN:CD	1:B:386:GLY:H	1.80	0.89
1:B:407:LYS:NZ	1:B:601:VAL:HA	1.88	0.89
1:A:376:LYS:HZ2	1:A:377:SER:HB2	1.34	0.88
1:B:254:LEU:HD22	1:B:254:LEU:N	1.88	0.88
1:B:288:ALA:HA	1:B:291:ALA:HB3	1.55	0.88
1:B:696:ILE:HG22	1:B:1005:ILE:HD12	1.52	0.88
1:B:1138:TYR:O	1:B:1141:ILE:HG12	1.73	0.88
1:A:128:GLN:O	1:A:131:PHE:HB3	1.70	0.88
1:A:191:GLN:O	1:A:195:THR:HG22	1.74	0.88
1:A:493:MET:HA	1:A:496:ILE:HD13	1.55	0.88
1:B:385:GLN:NE2	1:B:386:GLY:H	1.70	0.88
1:A:548:LEU:HD22	1:A:550:LEU:CD1	2.02	0.88
1:A:1013:GLU:O	1:A:1014:ILE:HG23	1.73	0.88
1:A:1060:GLN:HB2	1:A:1237:ASP:OD1	1.74	0.88
1:A:1091:PHE:HE1	1:A:1096:GLU:HG2	1.38	0.88
1:B:718:GLY:O	1:B:722:PRO:HD2	1.72	0.88
1:B:858:LEU:O	1:B:862:PRO:CD	2.20	0.88
1:B:900:PHE:C	1:B:902:THR:H	1.77	0.88
1:B:1038:PHE:O	1:B:1047:PRO:HB3	1.73	0.88
1:B:287:LYS:O	1:B:291:ALA:HB2	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:478:THR:HG22	1:A:479:THR:N	1.89	0.88
1:A:779:ILE:HG13	1:A:780:LEU:H	1.33	0.88
1:A:1062:LEU:HD12	1:A:1224:ILE:HG23	1.54	0.88
1:B:253:VAL:C	1:B:254:LEU:HD22	1.99	0.88
1:A:780:LEU:O	1:A:784:LEU:HB2	1.71	0.88
1:B:905:SER:HB2	1:B:908:ARG:NH1	1.88	0.88
1:A:1167:ASP:C	1:A:1168:LYS:HD2	1.98	0.87
1:B:1090:VAL:O	1:B:1091:PHE:CD1	2.27	0.87
1:A:714:ALA:HB1	1:A:833:PHE:HB2	1.57	0.87
1:B:202:ILE:HD12	1:B:203:GLY:N	1.88	0.87
1:B:1053:SER:O	1:B:1054:LEU:HD13	1.73	0.87
1:B:1110:GLY:HA3	1:B:1193:LEU:CD2	2.04	0.87
1:A:853:LEU:HA	1:A:856:LEU:CB	2.04	0.87
1:A:1042:THR:C	1:A:1044:PRO:HD2	1.99	0.87
1:B:543:ARG:NH2	1:B:905:SER:O	2.07	0.87
1:A:110:TYR:HA	1:A:113:TYR:CD2	2.08	0.87
1:A:405:ILE:HG21	1:A:427:CYS:O	1.73	0.87
1:B:208:TRP:O	1:B:209:LYS:CE	2.23	0.87
1:B:892:ILE:HB	1:B:916:TYR:OH	1.74	0.87
1:A:384:ILE:CG2	1:A:546:LYS:HE2	2.03	0.87
1:A:858:LEU:O	1:A:862:PRO:CD	2.22	0.87
1:B:286:LYS:HA	1:B:289:ILE:CG1	2.05	0.87
1:B:1015:ASP:N	1:B:1017:TYR:HE1	1.72	0.87
1:B:1091:PHE:HE1	1:B:1096:GLU:HG2	1.36	0.87
1:A:132:TRP:CD1	1:A:132:TRP:C	2.53	0.87
1:B:846:SER:O	1:B:849:TYR:HB2	1.75	0.87
1:B:1091:PHE:CD1	1:B:1096:GLU:HA	2.08	0.87
1:B:186:ILE:HG13	1:B:187:GLY:N	1.90	0.87
1:B:374:PHE:HE1	1:B:376:LYS:HB2	1.40	0.87
1:B:1151:HIS:HA	1:B:1154:ILE:HB	1.55	0.87
1:A:217:ILE:HD12	1:A:218:SER:N	1.90	0.87
1:B:964:LEU:HD22	1:B:965:MET:N	1.90	0.87
1:A:797:VAL:HG12	1:A:798:SER:H	1.40	0.86
1:B:1243:GLN:O	1:B:1246:LYS:HD2	1.75	0.86
1:A:39:PHE:CE2	1:A:355:ARG:HA	2.09	0.86
1:A:178:ILE:CD1	1:A:358:ALA:HB2	2.06	0.86
1:A:315:SER:HB3	1:A:747:ASN:ND2	1.90	0.86
1:A:318:ILE:HD12	1:A:735:PHE:CZ	2.09	0.86
1:B:34:SER:HA	1:B:38:MET:HB2	1.56	0.86
1:B:49:TYR:OH	1:B:130:SER:HB2	1.75	0.86
1:B:151:ILE:HD12	1:B:167:LEU:HD11	1.54	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:454:ILE:HG23	1:B:455:ARG:H	1.37	0.86
1:B:156:ILE:HG12	1:B:439:LEU:O	1.75	0.86
1:B:711:ILE:HG13	1:B:832:ILE:HG21	1.57	0.86
1:A:725:SER:HB3	1:A:975:SER:CB	2.05	0.86
1:A:892:ILE:HB	1:A:916:TYR:CZ	2.09	0.86
1:B:70:ILE:HG21	1:B:113:TYR:CD1	2.10	0.86
1:B:697:LEU:C	1:B:700:ASN:HB2	2.01	0.86
1:B:1211:GLN:O	1:B:1215:ASP:HB2	1.75	0.86
1:A:697:LEU:HD12	1:A:698:LYS:N	1.89	0.86
1:A:853:LEU:CD1	1:A:856:LEU:CD2	2.46	0.86
1:B:1097:ILE:HD11	1:B:1100:LEU:HD22	1.54	0.86
1:B:1197:GLU:HG2	1:B:1227:ALA:HA	1.57	0.86
1:A:253:VAL:C	1:A:254:LEU:HD22	2.00	0.86
1:A:376:LYS:CD	1:A:377:SER:H	1.82	0.86
1:A:1014:ILE:HG22	1:A:1102:VAL:HG11	1.54	0.86
1:B:1046:ILE:CG2	1:B:1047:PRO:CD	2.52	0.86
1:A:907:THR:H	1:A:908:ARG:HH11	0.92	0.86
1:B:388:LEU:HD11	1:B:547:ILE:HD12	1.58	0.86
1:A:208:TRP:HB3	1:A:209:LYS:NZ	1.90	0.86
1:A:892:ILE:HB	1:A:916:TYR:OH	1.75	0.86
1:B:318:ILE:CG1	1:B:325:GLY:H	1.88	0.86
1:A:1197:GLU:HG2	1:A:1227:ALA:HA	1.58	0.85
1:B:438:ARG:HG3	1:B:438:ARG:HH11	1.38	0.85
1:A:188:MET:HE2	1:A:348:ILE:HD11	1.56	0.85
1:B:68:MET:HE2	1:B:68:MET:HA	1.58	0.85
1:B:991:ALA:HB1	1:B:992:PRO:CD	2.04	0.85
1:A:96:LYS:HE3	1:A:962:GLN:NE2	1.90	0.85
1:B:246:ALA:CB	1:B:277:LEU:HB3	2.01	0.85
1:B:1091:PHE:HE1	1:B:1096:GLU:HA	1.39	0.85
1:A:140:ILE:HG13	1:A:179:ASN:HD22	1.39	0.85
1:B:39:PHE:CE2	1:B:355:ARG:HA	2.12	0.85
1:B:282:ARG:O	1:B:286:LYS:HB2	1.76	0.85
1:B:720:LEU:HD13	1:B:761:ILE:HG21	1.58	0.85
1:A:688:VAL:HB	1:A:1006:ARG:HH12	1.41	0.85
1:A:908:ARG:CD	1:A:909:GLU:H	1.86	0.85
1:A:900:PHE:C	1:A:902:THR:H	1.82	0.85
1:B:81:VAL:HG13	1:B:99:MET:HE2	1.57	0.85
1:A:696:ILE:HG22	1:A:1005:ILE:CD1	2.06	0.85
1:A:853:LEU:HD13	1:A:856:LEU:HD22	1.56	0.85
1:A:1120:ASP:OD2	1:A:1168:LYS:HG3	1.76	0.85
1:B:238:LYS:HE2	1:B:238:LYS:O	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:357:ALA:O	1:A:361:VAL:HG22	1.76	0.85
1:A:859:ALA:O	1:A:863:ILE:HD13	1.76	0.85
1:B:201:ILE:O	1:B:205:THR:HB	1.77	0.85
1:A:857:LEU:HD23	1:A:857:LEU:C	2.02	0.84
1:A:907:THR:H	1:A:908:ARG:NH1	1.74	0.84
1:B:178:ILE:CD1	1:B:358:ALA:HB2	2.07	0.84
1:B:512:LEU:HD11	1:B:518:THR:CG2	2.07	0.84
1:B:721:GLN:HG2	1:B:982:MET:HE3	1.58	0.84
1:A:718:GLY:O	1:A:722:PRO:HD2	1.75	0.84
1:A:374:PHE:CE1	1:A:376:LYS:HB3	2.12	0.84
1:A:99:MET:HB3	1:A:960:VAL:O	1.77	0.84
1:A:270:LEU:HD13	1:A:789:PHE:CE1	2.13	0.84
1:B:498:LYS:HE2	1:B:498:LYS:O	1.76	0.84
1:B:315:SER:O	1:B:318:ILE:HG22	1.78	0.84
1:A:254:LEU:HD22	1:A:254:LEU:N	1.92	0.84
1:A:270:LEU:HD23	1:A:270:LEU:H	1.41	0.84
1:B:217:ILE:HD11	1:B:331:PHE:HE2	1.43	0.84
1:A:1192:ILE:HD13	1:A:1193:LEU:H	1.40	0.84
1:B:795:GLN:O	1:B:796:ASP:CB	2.23	0.84
1:A:267:LYS:HB2	1:A:267:LYS:NZ	1.93	0.83
1:B:246:ALA:HB1	1:B:277:LEU:CB	2.02	0.83
1:A:506:TYR:O	1:A:510:MET:HG2	1.79	0.83
1:A:110:TYR:CA	1:A:113:TYR:HD2	1.91	0.83
1:A:239:GLU:HB3	1:A:285:ILE:HG12	1.60	0.83
1:B:697:LEU:HD12	1:B:698:LYS:N	1.93	0.83
1:B:314:THR:HG23	1:B:327:VAL:CG2	2.05	0.83
1:B:850:GLY:C	1:B:851:TRP:CD1	2.57	0.83
1:A:199:GLY:O	1:A:203:GLY:HA3	1.79	0.83
1:B:797:VAL:O	1:B:799:TRP:N	2.12	0.83
1:A:49:TYR:OH	1:A:130:SER:HB2	1.78	0.83
1:A:318:ILE:O	1:A:318:ILE:HD13	1.77	0.83
1:A:603:VAL:HG23	1:A:604:GLU:N	1.91	0.83
1:A:713:CYS:O	1:A:716:ILE:HG13	1.78	0.83
1:B:131:PHE:CZ	1:B:185:LYS:NZ	2.46	0.83
1:B:278:GLU:HA	1:B:282:ARG:NH2	1.94	0.83
1:B:381:PRO:HB2	1:B:461:TYR:CE1	2.14	0.83
1:A:206:ARG:O	1:A:211:THR:CB	2.27	0.83
1:A:214:ILE:HD11	1:A:330:VAL:CB	2.09	0.83
1:B:188:MET:HE2	1:B:348:ILE:HD11	1.58	0.83
1:B:992:PRO:O	1:B:994:TYR:N	2.12	0.83
1:A:265:GLY:CA	1:A:793:LEU:HD11	2.09	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:247:GLY:O	1:A:250:ALA:HB3	1.79	0.82
1:A:288:ALA:CA	1:A:291:ALA:HB3	2.08	0.82
1:B:840:GLY:O	1:B:844:ILE:HG12	1.79	0.82
1:A:291:ALA:HA	1:A:294:SER:HB2	1.60	0.82
1:B:266:GLN:O	1:B:267:LYS:HB2	1.79	0.82
1:B:792:MET:HE3	1:B:810:LEU:HD22	1.62	0.82
1:B:492:THR:HB	1:B:495:GLU:OE2	1.79	0.82
1:A:156:ILE:H	1:A:156:ILE:HD12	0.70	0.82
1:A:1262:ILE:H	1:A:1262:ILE:HD12	1.45	0.82
1:A:240:LEU:O	1:A:243:TYR:HB3	1.78	0.82
1:B:331:PHE:O	1:B:334:VAL:HG12	1.80	0.82
1:A:35:VAL:CG2	1:A:36:LEU:HD23	2.10	0.82
1:B:239:GLU:HB3	1:B:285:ILE:HG12	1.60	0.82
1:A:1151:HIS:HA	1:A:1154:ILE:HB	1.62	0.82
1:B:906:LEU:C	1:B:908:ARG:HE	1.88	0.82
1:B:1030:ASN:OD1	1:B:1057:LYS:C	2.23	0.82
1:A:186:ILE:HG13	1:A:187:GLY:N	1.93	0.82
1:A:756:LEU:HD12	1:A:757:ILE:N	1.93	0.82
1:A:906:LEU:C	1:A:908:ARG:HE	1.88	0.82
1:A:1236:ALA:HB3	1:A:1239:ILE:HD11	1.59	0.82
1:A:1239:ILE:N	1:A:1239:ILE:HD12	1.95	0.82
1:A:711:ILE:CD1	1:A:832:ILE:HD13	2.09	0.81
1:A:257:ILE:CG1	1:A:800:PHE:CE2	2.61	0.81
1:B:185:LYS:HZ2	1:B:186:ILE:N	1.78	0.81
1:A:318:ILE:HD12	1:A:735:PHE:HZ	1.45	0.81
1:A:843:ILE:O	1:A:846:SER:HB2	1.80	0.81
1:B:1117:ILE:HD12	1:B:1118:LEU:H	1.43	0.81
1:B:1120:ASP:OD2	1:B:1168:LYS:HG3	1.79	0.81
1:A:512:LEU:HD12	1:A:513:PRO:HD2	1.61	0.81
1:A:711:ILE:HG13	1:A:832:ILE:HG21	1.62	0.81
1:A:202:ILE:HD12	1:A:203:GLY:N	1.94	0.81
1:A:239:GLU:HG3	1:A:288:ALA:CB	2.11	0.81
1:A:450:ASP:CG	1:A:451:GLY:H	1.88	0.81
1:B:549:LEU:HG	1:B:579:ILE:HG22	1.62	0.81
1:B:765:THR:O	1:B:769:GLN:NE2	2.13	0.81
1:A:838:ASN:C	1:A:838:ASN:ND2	2.29	0.81
1:A:1091:PHE:CE1	1:A:1096:GLU:CA	2.64	0.81
1:A:303:TYR:O	1:A:306:TYR:HD2	1.63	0.81
1:B:725:SER:HB3	1:B:975:SER:CB	2.09	0.81
1:B:1045:SER:O	1:B:1046:ILE:O	1.98	0.81
1:A:314:THR:HG23	1:A:327:VAL:HG21	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:ILE:HG23	1:A:546:LYS:HE2	1.62	0.81
1:A:727:ILE:HD12	1:A:754:LEU:HG	1.61	0.81
1:B:493:MET:CA	1:B:496:ILE:HD13	2.10	0.81
1:B:546:LYS:O	1:B:577:THR:HG23	1.80	0.81
1:B:616:GLY:O	1:B:620:LYS:HB2	1.80	0.81
1:B:1234:GLN:HG2	1:B:1253:HIS:CD2	2.16	0.81
1:A:856:LEU:CD1	1:A:955:PHE:HD1	1.90	0.81
1:B:239:GLU:HG3	1:B:288:ALA:CB	2.11	0.81
1:A:699:LEU:O	1:A:703:GLU:OE1	1.99	0.81
1:A:208:TRP:C	1:A:209:LYS:HD3	2.05	0.80
1:A:214:ILE:HD11	1:A:330:VAL:CG1	2.11	0.80
1:A:286:LYS:HA	1:A:289:ILE:CG1	2.11	0.80
1:B:858:LEU:HD12	1:B:859:ALA:N	1.96	0.80
1:B:1097:ILE:HD13	1:B:1100:LEU:HB2	1.62	0.80
1:A:266:GLN:HB2	1:A:270:LEU:HD21	1.62	0.80
1:A:853:LEU:CA	1:A:856:LEU:HB3	2.10	0.80
1:A:1091:PHE:CE1	1:A:1096:GLU:HG2	2.15	0.80
1:A:278:GLU:HA	1:A:282:ARG:NH2	1.96	0.80
1:A:267:LYS:H	1:A:270:LEU:HD21	1.47	0.80
1:A:1080:GLU:OE2	1:A:1109:LEU:HD12	1.82	0.80
1:B:796:ASP:O	1:B:801:ASP:OD1	1.98	0.80
1:A:603:VAL:CG2	1:A:604:GLU:H	1.92	0.80
1:A:287:LYS:O	1:A:291:ALA:HB2	1.80	0.80
1:A:306:TYR:O	1:A:310:PHE:HB2	1.82	0.80
1:A:718:GLY:HA2	1:A:837:ALA:HB2	1.63	0.80
1:B:379:HIS:HB3	1:B:457:ILE:HA	1.62	0.80
1:B:392:ASN:O	1:B:445:GLY:HA3	1.80	0.80
1:B:1239:ILE:HD12	1:B:1239:ILE:N	1.97	0.80
1:A:616:GLY:O	1:A:620:LYS:HB2	1.82	0.80
1:B:498:LYS:HE2	1:B:498:LYS:C	2.07	0.80
1:B:958:TYR:O	1:B:966:THR:HG21	1.80	0.80
1:B:157:GLY:HA2	1:B:160:ASP:CG	2.06	0.80
1:B:958:TYR:CE2	1:B:959:LEU:HB2	2.16	0.80
1:B:1236:ALA:HB3	1:B:1239:ILE:HD11	1.61	0.80
1:A:818:ALA:O	1:A:821:VAL:HG22	1.81	0.80
1:B:313:GLY:O	1:B:317:VAL:HG23	1.80	0.80
1:B:964:LEU:O	1:B:966:THR:N	2.13	0.80
1:B:1019:THR:HG22	1:B:1100:LEU:HD12	1.63	0.80
1:A:399:SER:HB2	1:A:402:GLU:OE2	1.81	0.80
1:A:1118:LEU:HD12	1:A:1118:LEU:N	1.96	0.80
1:B:132:TRP:CD1	1:B:132:TRP:C	2.57	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:303:TYR:O	1:B:306:TYR:HD2	1.65	0.80
1:B:892:ILE:HB	1:B:916:TYR:CZ	2.17	0.80
1:B:907:THR:H	1:B:908:ARG:HH11	0.80	0.80
1:A:454:ILE:HG23	1:A:455:ARG:H	1.46	0.79
1:A:1063:ALA:HB3	1:A:1239:ILE:HA	1.64	0.79
1:B:163:ASP:C	1:B:165:GLY:H	1.91	0.79
1:B:776:ALA:O	1:B:780:LEU:HB2	1.81	0.79
1:A:713:CYS:HB3	1:A:768:LEU:HD21	1.63	0.79
1:B:697:LEU:CA	1:B:700:ASN:HB2	2.12	0.79
1:A:982:MET:HG2	1:A:983:ALA:N	1.96	0.79
1:A:1072:LYS:HB3	1:A:1226:ILE:HD13	1.64	0.79
1:A:1173:SER:H	1:A:1176:GLN:HE22	1.26	0.79
1:B:128:GLN:O	1:B:131:PHE:HB3	1.80	0.79
1:B:959:LEU:HD13	1:B:964:LEU:HG	1.65	0.79
1:A:172:THR:O	1:A:175:VAL:HG12	1.82	0.79
1:B:107:MET:HE2	1:B:954:ARG:CD	2.12	0.79
1:B:471:GLN:HG2	1:B:472:GLU:N	1.96	0.79
1:B:722:PRO:HD3	1:B:982:MET:HE1	1.63	0.79
1:B:1124:ALA:HB2	1:B:1161:TYR:HB3	1.65	0.79
1:B:1137:SER:OG	1:B:1140:GLU:HB2	1.81	0.79
1:A:267:LYS:CB	1:A:790:LYS:HE2	2.13	0.79
1:A:296:GLY:HA3	1:A:766:PHE:CE2	2.16	0.79
1:A:429:LYS:HD3	1:A:429:LYS:H	1.47	0.79
1:A:799:TRP:O	1:A:803:PRO:HB3	1.82	0.79
1:A:800:PHE:O	1:A:803:PRO:HD3	1.83	0.79
1:A:857:LEU:O	1:A:860:ILE:N	2.16	0.79
1:B:1167:ASP:C	1:B:1168:LYS:HD2	2.08	0.79
1:A:279:GLU:O	1:A:282:ARG:HB2	1.82	0.79
1:A:429:LYS:HB3	1:A:581:ILE:HG13	1.65	0.79
1:A:1072:LYS:O	1:A:1076:VAL:HG23	1.83	0.79
1:B:857:LEU:CD1	1:B:976:ALA:HB3	2.13	0.79
1:B:1144:ALA:CB	1:B:1187:VAL:HG22	2.13	0.79
1:A:1126:ASN:O	1:A:1129:TYR:N	2.15	0.79
1:B:305:SER:O	1:B:308:LEU:HB3	1.83	0.79
1:B:1144:ALA:HA	1:B:1186:LEU:CD1	2.11	0.79
1:A:315:SER:HG	1:A:747:ASN:CG	1.89	0.79
1:A:970:VAL:HG23	1:A:971:LEU:HD22	1.64	0.79
1:B:253:VAL:C	1:B:254:LEU:HD13	2.08	0.79
1:B:991:ALA:CB	1:B:992:PRO:HD2	2.07	0.79
1:A:415:SER:O	1:A:417:GLN:N	2.16	0.79
1:B:1033:PHE:CD1	1:B:1036:VAL:HG21	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:919:SER:O	1:A:923:PRO:CD	2.31	0.78
1:B:155:GLU:HB3	1:B:156:ILE:CD1	2.11	0.78
1:B:550:LEU:HB2	1:B:580:VAL:HG23	1.65	0.78
1:B:756:LEU:HD12	1:B:757:ILE:N	1.97	0.78
1:B:371:ILE:C	1:B:373:SER:H	1.87	0.78
1:B:800:PHE:O	1:B:803:PRO:HD3	1.82	0.78
1:A:1153:PHE:CZ	1:A:1176:GLN:HG2	2.19	0.78
1:B:713:CYS:HB3	1:B:768:LEU:HD21	1.64	0.78
1:A:697:LEU:C	1:A:700:ASN:HB2	2.07	0.78
1:B:279:GLU:O	1:B:282:ARG:HB2	1.82	0.78
1:B:386:GLY:HA3	1:B:450:ASP:HA	1.65	0.78
1:B:899:ASN:O	1:B:901:ARG:N	2.15	0.78
1:B:976:ALA:HA	1:B:979:PHE:CG	2.18	0.78
1:A:407:LYS:NZ	1:A:601:VAL:HA	1.98	0.78
1:A:1096:GLU:HB2	1:A:1099:GLN:HE22	1.47	0.78
1:B:905:SER:HB2	1:B:908:ARG:HH12	1.44	0.78
1:A:158:TRP:O	1:A:158:TRP:CD1	2.37	0.78
1:B:907:THR:N	1:B:908:ARG:NH1	2.21	0.78
1:A:203:GLY:O	1:A:215:LEU:HD21	1.83	0.78
1:A:1056:VAL:CG2	1:A:1062:LEU:HB2	2.13	0.78
1:B:765:THR:C	1:B:769:GLN:NE2	2.42	0.78
1:B:1091:PHE:HE1	1:B:1096:GLU:CG	1.96	0.78
1:A:98:ALA:O	1:A:101:ALA:HB3	1.83	0.78
1:A:1040:TYR:O	1:A:1042:THR:HG22	1.84	0.78
1:B:696:ILE:HG22	1:B:1005:ILE:CD1	2.13	0.78
1:B:1091:PHE:CE1	1:B:1096:GLU:CA	2.66	0.78
1:A:1117:ILE:HD12	1:A:1118:LEU:H	1.49	0.78
1:A:1123:ILE:O	1:A:1127:ILE:HG13	1.83	0.78
1:B:212:LEU:HD12	1:B:215:LEU:HB2	1.66	0.78
1:B:908:ARG:CD	1:B:909:GLU:N	2.41	0.78
1:B:1040:TYR:O	1:B:1042:THR:HG22	1.84	0.78
1:A:720:LEU:HD13	1:A:761:ILE:HG21	1.66	0.77
1:B:90:ASN:CB	1:B:91:MET:HE3	2.12	0.77
1:B:722:PRO:HB2	1:B:841:THR:HG21	1.66	0.77
1:A:157:GLY:HA2	1:A:160:ASP:CG	2.09	0.77
1:A:471:GLN:HG2	1:A:472:GLU:N	1.99	0.77
1:A:1090:VAL:O	1:A:1091:PHE:CD1	2.38	0.77
1:B:288:ALA:CA	1:B:291:ALA:HB3	2.14	0.77
1:B:708:VAL:O	1:B:711:ILE:HG23	1.84	0.77
1:A:740:PRO:HG2	1:A:741:PRO:HD3	1.66	0.77
1:A:1053:SER:O	1:A:1054:LEU:HD13	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1096:GLU:HB2	1:B:1099:GLN:HE21	1.49	0.77
1:A:722:PRO:HB2	1:A:841:THR:HG21	1.64	0.77
1:B:418:THR:HB	1:B:578:THR:HG23	1.65	0.77
1:B:958:TYR:O	1:B:966:THR:CG2	2.32	0.77
1:A:717:ASN:O	1:A:720:LEU:HB3	1.84	0.77
1:B:375:SER:C	1:B:376:LYS:CD	2.55	0.77
1:A:266:GLN:HB2	1:A:270:LEU:CD2	2.14	0.77
1:A:1091:PHE:CE1	1:A:1096:GLU:HA	2.19	0.77
1:B:282:ARG:C	1:B:286:LYS:HD3	2.09	0.77
1:B:435:LEU:H	1:B:435:LEU:HD22	1.48	0.77
1:A:305:SER:O	1:A:308:LEU:HB3	1.85	0.77
1:A:1097:ILE:HD12	1:A:1105:LEU:HD13	1.65	0.77
1:A:1144:ALA:CB	1:A:1187:VAL:HG22	2.12	0.77
1:A:1192:ILE:HD13	1:A:1193:LEU:N	1.99	0.77
1:B:424:ASN:H	1:B:598:ASP:HA	1.49	0.77
1:B:1100:LEU:HD21	1:B:1104:TRP:CZ3	2.20	0.77
1:A:217:ILE:CD1	1:A:218:SER:H	1.95	0.77
1:A:361:VAL:HG12	1:A:364:ILE:HD12	1.66	0.77
1:A:857:LEU:HD11	1:A:977:ILE:CA	2.15	0.77
1:B:694:TRP:O	1:B:697:LEU:N	2.16	0.77
1:A:288:ALA:HA	1:A:291:ALA:CB	2.15	0.77
1:A:1081:ARG:CZ	1:A:1098:LYS:O	2.33	0.77
1:B:964:LEU:HD13	1:B:965:MET:N	1.99	0.77
1:A:61:GLY:CA	1:A:194:ALA:HB2	2.16	0.76
1:A:523:ARG:CD	1:A:524:GLY:H	1.97	0.76
1:B:857:LEU:HD11	1:B:976:ALA:CB	2.14	0.76
1:A:133:CYS:O	1:A:134:LEU:C	2.28	0.76
1:A:212:LEU:HD12	1:A:215:LEU:HB2	1.64	0.76
1:A:995:ALA:O	1:A:997:ALA:N	2.18	0.76
1:A:1260:LYS:HD2	1:A:1260:LYS:H	1.50	0.76
1:B:765:THR:C	1:B:769:GLN:HE21	1.92	0.76
1:B:1000:SER:O	1:B:1004:ILE:HG22	1.84	0.76
1:A:907:THR:N	1:A:908:ARG:NH1	2.32	0.76
1:A:908:ARG:CD	1:A:909:GLU:N	2.45	0.76
1:B:508:PHE:O	1:B:512:LEU:HB3	1.85	0.76
1:B:1262:ILE:H	1:B:1262:ILE:HD12	1.48	0.76
1:A:201:ILE:O	1:A:205:THR:HB	1.85	0.76
1:A:684:LEU:O	1:A:686:GLU:OE1	2.04	0.76
1:A:797:VAL:HG21	1:A:1013:GLU:HG3	1.67	0.76
1:B:548:LEU:HD22	1:B:550:LEU:CD1	2.15	0.76
1:B:908:ARG:O	1:B:911:LYS:HB3	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:509:ILE:HD12	1:A:510:MET:N	2.00	0.76
1:A:1031:VAL:HB	1:A:1056:VAL:HG12	1.67	0.76
1:A:1265:SER:HA	1:A:1268:SER:OG	1.86	0.76
1:B:38:MET:SD	1:B:362:PHE:CE1	2.79	0.76
1:B:289:ILE:C	1:B:291:ALA:H	1.91	0.76
1:B:318:ILE:HD11	1:B:325:GLY:N	2.01	0.76
1:A:498:LYS:NZ	1:A:502:GLU:OE2	2.18	0.76
1:A:799:TRP:HD1	1:A:800:PHE:CE1	2.03	0.76
1:A:279:GLU:HG2	1:A:782:LYS:HZ2	1.50	0.76
1:A:1110:GLY:HA3	1:A:1193:LEU:CD2	2.16	0.76
1:B:424:ASN:HB2	1:B:598:ASP:OD1	1.85	0.76
1:A:210:LEU:HD23	1:A:317:VAL:CG1	2.15	0.76
1:A:315:SER:HB3	1:A:747:ASN:CG	2.10	0.76
1:A:618:TYR:O	1:A:622:VAL:HG23	1.85	0.76
1:A:688:VAL:CB	1:A:1006:ARG:HH12	1.98	0.76
1:A:1013:GLU:C	1:A:1014:ILE:HG12	2.10	0.76
1:A:611:LEU:HB3	1:A:618:TYR:HB3	1.67	0.76
1:A:901:ARG:HD3	1:A:901:ARG:N	1.99	0.76
1:B:1020:GLN:CD	1:B:1020:GLN:N	2.44	0.76
1:B:1260:LYS:HD2	1:B:1260:LYS:H	1.50	0.76
1:A:358:ALA:C	1:A:362:PHE:HB2	2.11	0.76
1:B:129:VAL:HG22	1:B:938:PHE:HD1	1.50	0.76
1:B:153:ASN:ND2	1:B:376:LYS:HE2	2.00	0.76
1:B:1060:GLN:HB2	1:B:1237:ASP:OD1	1.85	0.76
1:A:208:TRP:HB3	1:A:209:LYS:HZ2	1.49	0.75
1:A:435:LEU:C	1:A:437:GLN:H	1.91	0.75
1:A:1037:VAL:HG22	1:A:1087:ALA:HB3	1.68	0.75
1:B:964:LEU:CD2	1:B:965:MET:H	1.94	0.75
1:A:388:LEU:HB2	1:A:413:VAL:HG12	1.65	0.75
1:A:478:THR:CG2	1:A:479:THR:H	1.91	0.75
1:A:1091:PHE:HE1	1:A:1096:GLU:CA	1.99	0.75
1:B:374:PHE:HD1	1:B:375:SER:H	1.34	0.75
1:B:467:GLY:HA3	1:B:545:PRO:HG3	1.66	0.75
1:B:1099:GLN:HG2	1:B:1099:GLN:O	1.85	0.75
1:B:1150:ILE:HA	1:B:1179:ARG:HD3	1.68	0.75
1:A:289:ILE:C	1:A:291:ALA:H	1.92	0.75
1:A:537:ILE:O	1:A:541:LEU:HB2	1.86	0.75
1:B:151:ILE:CD1	1:B:167:LEU:HD11	2.14	0.75
1:A:803:PRO:C	1:A:804:LYS:HD3	2.10	0.75
1:B:131:PHE:HZ	1:B:185:LYS:HZ1	1.34	0.75
1:B:1063:ALA:HB2	1:B:1236:ALA:CB	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:LEU:HD13	1:A:789:PHE:CZ	2.21	0.75
1:A:549:LEU:HG	1:A:579:ILE:HG22	1.69	0.75
1:A:1144:ALA:HA	1:A:1186:LEU:CD1	2.16	0.75
1:A:1214:LEU:HD23	1:A:1214:LEU:O	1.86	0.75
1:A:958:TYR:O	1:A:966:THR:CG2	2.31	0.75
1:B:959:LEU:HB3	1:B:964:LEU:HB3	1.67	0.75
1:B:1072:LYS:O	1:B:1076:VAL:HG23	1.86	0.75
1:A:206:ARG:C	1:A:211:THR:HB	2.10	0.75
1:B:982:MET:HG2	1:B:983:ALA:N	2.01	0.75
1:B:1062:LEU:C	1:B:1062:LEU:HD13	2.11	0.75
1:B:1218:ARG:C	1:B:1220:GLY:H	1.94	0.75
1:B:284:GLY:C	1:B:286:LYS:H	1.94	0.75
1:B:694:TRP:O	1:B:697:LEU:HG	1.86	0.75
1:B:838:ASN:C	1:B:838:ASN:ND2	2.39	0.75
1:A:407:LYS:HZ1	1:A:601:VAL:HA	1.50	0.75
1:A:1252:THR:HG22	1:A:1255:GLN:OE1	1.87	0.75
1:B:713:CYS:O	1:B:716:ILE:HG13	1.85	0.75
1:B:857:LEU:HD23	1:B:858:LEU:N	2.02	0.75
1:B:907:THR:N	1:B:908:ARG:HE	1.85	0.75
1:A:151:ILE:CD1	1:A:167:LEU:HD11	2.17	0.74
1:A:200:PHE:O	1:A:201:ILE:C	2.30	0.74
1:A:304:ALA:HB2	1:A:758:LEU:HD22	1.68	0.74
1:A:685:ASP:O	1:A:686:GLU:HG3	1.86	0.74
1:A:1019:THR:OG1	1:A:1101:ASN:HA	1.86	0.74
1:A:1116:PRO:HB3	1:A:1178:GLN:OE1	1.87	0.74
1:B:186:ILE:HG13	1:B:187:GLY:H	1.52	0.74
1:B:1041:PRO:O	1:B:1042:THR:HB	1.86	0.74
1:B:1112:VAL:HG21	1:B:1182:ILE:HD12	1.68	0.74
1:B:1150:ILE:O	1:B:1154:ILE:HD13	1.87	0.74
1:A:72:GLY:HA3	1:A:329:THR:OG1	1.87	0.74
1:B:240:LEU:O	1:B:243:TYR:HB3	1.87	0.74
1:B:512:LEU:CD1	1:B:518:THR:HG21	2.09	0.74
1:B:699:LEU:O	1:B:703:GLU:OE1	2.04	0.74
1:B:1090:VAL:HG13	1:B:1097:ILE:O	1.87	0.74
1:B:1025:ASN:O	1:B:1027:LEU:HD23	1.87	0.74
1:B:1037:VAL:CG2	1:B:1087:ALA:HB3	2.17	0.74
1:B:1062:LEU:HD12	1:B:1224:ILE:HG23	1.69	0.74
1:A:297:ALA:HB1	1:A:763:PHE:CD2	2.23	0.74
1:A:909:GLU:HA	1:A:909:GLU:OE2	1.85	0.74
1:B:892:ILE:HD12	1:B:916:TYR:CE1	2.22	0.74
1:A:219:PRO:O	1:A:223:LEU:HG	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:ILE:CG1	1:A:800:PHE:HE2	1.97	0.74
1:A:492:THR:HB	1:A:495:GLU:OE2	1.86	0.74
1:A:508:PHE:CE1	1:A:509:ILE:HG23	2.22	0.74
1:B:799:TRP:O	1:B:803:PRO:HB3	1.87	0.74
1:B:1015:ASP:N	1:B:1017:TYR:CE1	2.53	0.74
1:B:1091:PHE:HE1	1:B:1096:GLU:CA	2.01	0.74
1:A:81:VAL:HG13	1:A:99:MET:HE2	1.69	0.74
1:A:585:LEU:HA	1:A:588:VAL:CG2	2.17	0.74
1:A:858:LEU:HD12	1:A:859:ALA:N	2.02	0.74
1:B:569:LEU:O	1:B:572:ALA:HB3	1.88	0.74
1:B:969:ASN:N	1:B:969:ASN:HD22	1.86	0.74
1:A:282:ARG:CA	1:A:282:ARG:HH11	2.01	0.74
1:A:1023:LYS:HB2	1:A:1026:MET:HG3	1.68	0.74
1:B:848:ILE:HD12	1:B:848:ILE:O	1.87	0.74
1:B:851:TRP:N	1:B:854:THR:OG1	2.21	0.74
1:A:607:ASN:HB3	1:A:610:GLU:HG3	1.70	0.74
1:B:1252:THR:CG2	1:B:1255:GLN:HB2	2.15	0.74
1:A:39:PHE:HE2	1:A:358:ALA:HB3	1.51	0.74
1:A:167:LEU:HD23	1:A:168:ASN:N	2.03	0.74
1:A:918:GLN:O	1:A:921:GLN:HB3	1.87	0.74
1:B:261:ILE:HG23	1:B:1106:ARG:NH1	2.03	0.74
1:B:306:TYR:O	1:B:310:PHE:HB2	1.87	0.74
1:A:85:SER:HA	1:A:963:GLN:OE1	1.86	0.74
1:A:969:ASN:HD22	1:A:969:ASN:N	1.85	0.74
1:A:1090:VAL:O	1:A:1091:PHE:HD1	1.70	0.74
1:B:720:LEU:HD22	1:B:761:ILE:HG22	1.70	0.74
1:B:727:ILE:HD12	1:B:754:LEU:HG	1.69	0.74
1:B:1252:THR:HG22	1:B:1255:GLN:OE1	1.87	0.74
1:A:303:TYR:O	1:A:306:TYR:CD2	2.41	0.73
1:B:374:PHE:CE1	1:B:376:LYS:HB2	2.23	0.73
1:B:1037:VAL:HG22	1:B:1087:ALA:HB3	1.70	0.73
1:A:381:PRO:HB3	1:A:452:GLN:OE1	1.88	0.73
1:A:803:PRO:O	1:A:804:LYS:HD3	1.88	0.73
1:B:390:PHE:CE1	1:B:432:THR:HB	2.17	0.73
1:B:496:ILE:H	1:B:496:ILE:HD12	1.52	0.73
1:B:1097:ILE:HD11	1:B:1100:LEU:CD2	2.18	0.73
1:B:1118:LEU:N	1:B:1118:LEU:HD12	2.04	0.73
1:A:721:GLN:HB3	1:A:722:PRO:HD3	1.69	0.73
1:A:1004:ILE:HD13	1:A:1004:ILE:O	1.87	0.73
1:A:1028:GLU:HB2	1:A:1093:ASP:OD1	1.89	0.73
1:A:1124:ALA:HB2	1:A:1161:TYR:HB3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:90:ASN:HB2	1:B:91:MET:HE3	1.68	0.73
1:B:366:ASP:O	1:B:367:ASN:O	2.05	0.73
1:B:1071:GLY:O	1:B:1075:VAL:HG23	1.88	0.73
1:B:102:LYS:HA	1:B:102:LYS:HE3	1.70	0.73
1:B:362:PHE:HA	1:B:365:ILE:HD12	1.68	0.73
1:B:830:ALA:HB1	1:B:990:PHE:CE2	2.19	0.73
1:B:909:GLU:OE2	1:B:909:GLU:CA	2.36	0.73
1:A:550:LEU:HB2	1:A:580:VAL:HG23	1.69	0.73
1:A:573:ARG:HD2	1:A:578:THR:HG21	1.70	0.73
1:B:597:PHE:O	1:B:598:ASP:HB2	1.87	0.73
1:A:765:THR:HG23	1:A:766:PHE:HD1	1.52	0.73
1:B:918:GLN:O	1:B:921:GLN:HB3	1.87	0.73
1:A:361:VAL:O	1:A:365:ILE:CG1	2.34	0.73
1:A:1203:ASP:O	1:A:1207:GLU:HG3	1.88	0.73
1:B:1039:ASN:CB	1:B:1047:PRO:HA	2.16	0.73
1:B:1042:THR:C	1:B:1044:PRO:HD2	2.14	0.73
1:A:163:ASP:C	1:A:165:GLY:H	1.97	0.73
1:A:188:MET:HB2	1:A:347:ASN:HB3	1.69	0.73
1:A:385:GLN:NE2	1:A:386:GLY:N	2.35	0.73
1:A:388:LEU:HD11	1:A:547:ILE:HD12	1.71	0.73
1:A:1039:ASN:CB	1:A:1047:PRO:HA	2.15	0.73
1:B:140:ILE:HG13	1:B:179:ASN:HD22	1.53	0.73
1:B:266:GLN:O	1:B:267:LYS:NZ	2.21	0.73
1:B:306:TYR:CG	1:B:307:ALA:N	2.57	0.73
1:B:1169:GLY:O	1:B:1171:GLN:HG2	1.89	0.73
1:A:213:VAL:O	1:A:217:ILE:HG13	1.88	0.73
1:B:265:GLY:C	1:B:267:LYS:HG3	2.14	0.73
1:B:358:ALA:C	1:B:362:PHE:HB2	2.13	0.73
1:A:186:ILE:HG13	1:A:187:GLY:H	1.54	0.73
1:A:426:GLY:HA2	1:A:429:LYS:HZ1	1.54	0.73
1:A:900:PHE:C	1:A:900:PHE:CD1	2.66	0.73
1:B:718:GLY:HA2	1:B:837:ALA:HB2	1.69	0.73
1:A:433:VAL:HG13	1:A:549:LEU:HD23	1.69	0.72
1:A:776:ALA:O	1:A:780:LEU:HB2	1.89	0.72
1:B:885:GLU:HB3	1:B:923:PRO:HG3	1.71	0.72
1:B:1011:THR:N	1:B:1012:PRO:HD2	2.01	0.72
1:B:1046:ILE:CG2	1:B:1047:PRO:HD2	2.17	0.72
1:B:388:LEU:HB2	1:B:413:VAL:HG12	1.71	0.72
1:B:537:ILE:O	1:B:541:LEU:HB2	1.89	0.72
1:B:725:SER:HB3	1:B:975:SER:OG	1.89	0.72
1:B:1249:GLU:O	1:B:1250:HIS:HB3	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:253:VAL:C	1:A:254:LEU:HD13	2.13	0.72
1:A:798:SER:CA	1:A:801:ASP:HB2	2.19	0.72
1:A:961:THR:O	1:A:962:GLN:HB3	1.87	0.72
1:B:103:LEU:HD23	1:B:961:THR:OG1	1.89	0.72
1:B:199:GLY:O	1:B:203:GLY:HA3	1.89	0.72
1:B:786:TYR:HE2	1:B:790:LYS:NZ	1.85	0.72
1:B:1080:GLU:OE2	1:B:1109:LEU:HD12	1.89	0.72
1:A:436:MET:HE1	1:A:449:ILE:HD13	1.70	0.72
1:A:1022:LEU:O	1:A:1023:LYS:C	2.32	0.72
1:A:1063:ALA:HB2	1:A:1236:ALA:CB	2.19	0.72
1:A:1265:SER:HA	1:A:1268:SER:HG	1.51	0.72
1:B:421:LEU:HD13	1:B:579:ILE:HD11	1.72	0.72
1:B:257:ILE:HG12	1:B:800:PHE:HE2	1.52	0.72
1:B:712:PHE:O	1:B:715:ILE:HG12	1.90	0.72
1:B:901:ARG:HD3	1:B:901:ARG:N	1.99	0.72
1:B:1131:ASP:HB3	1:B:1188:ARG:NE	2.03	0.72
1:A:282:ARG:C	1:A:286:LYS:HD3	2.15	0.72
1:A:362:PHE:HA	1:A:365:ILE:CB	2.19	0.72
1:A:395:PHE:HA	1:A:443:LEU:CB	2.19	0.72
1:A:797:VAL:O	1:A:801:ASP:OD1	2.06	0.72
1:B:133:CYS:O	1:B:134:LEU:C	2.32	0.72
1:B:282:ARG:CA	1:B:282:ARG:HH11	2.02	0.72
1:B:387:ASN:HD22	1:B:414:LYS:CA	2.00	0.72
1:B:697:LEU:O	1:B:700:ASN:CB	2.36	0.72
1:A:740:PRO:HG2	1:A:741:PRO:CD	2.19	0.72
1:A:1055:GLU:HG2	1:A:1056:VAL:N	2.05	0.72
1:B:209:LYS:C	1:B:212:LEU:HB3	2.15	0.72
1:B:318:ILE:HG13	1:B:325:GLY:H	1.55	0.72
1:A:546:LYS:O	1:A:577:THR:HG23	1.89	0.72
1:A:791:SER:HA	1:A:1010:LYS:HE3	1.71	0.72
1:A:1022:LEU:HG	1:A:1104:TRP:HE1	1.53	0.72
1:B:290:THR:HA	1:B:293:ILE:HB	1.71	0.72
1:B:690:PRO:HG2	1:B:1006:ARG:CZ	2.19	0.72
1:A:993:ASP:C	1:A:996:LYS:HZ1	1.98	0.72
1:A:1137:SER:CB	1:A:1140:GLU:HB2	2.20	0.72
1:B:972:LEU:O	1:B:975:SER:HB2	1.90	0.72
1:B:1005:ILE:O	1:B:1009:GLU:HG3	1.90	0.72
1:B:1039:ASN:HB2	1:B:1047:PRO:HG3	1.72	0.72
1:A:286:LYS:C	1:A:289:ILE:HB	2.13	0.72
1:A:727:ILE:HG23	1:A:754:LEU:HG	1.71	0.72
1:A:1037:VAL:CG2	1:A:1087:ALA:HB3	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:188:MET:HE2	1:B:348:ILE:CD1	2.19	0.72
1:B:414:LYS:H	1:B:414:LYS:HD2	1.55	0.72
1:A:283:LEU:CA	1:A:286:LYS:HB2	2.20	0.71
1:B:296:GLY:HA3	1:B:766:PHE:CE2	2.25	0.71
1:A:722:PRO:HD3	1:A:982:MET:HE1	1.69	0.71
1:A:1091:PHE:HE1	1:A:1096:GLU:CG	2.02	0.71
1:B:849:TYR:HD1	1:B:854:THR:HA	1.55	0.71
1:B:905:SER:CB	1:B:908:ARG:HH12	2.03	0.71
1:A:110:TYR:O	1:A:113:TYR:CD2	2.43	0.71
1:A:188:MET:HE2	1:A:348:ILE:CD1	2.20	0.71
1:A:697:LEU:HB3	1:A:828:ARG:NH2	2.05	0.71
1:A:1132:ASN:OD1	1:A:1134:ARG:HG2	1.90	0.71
1:B:438:ARG:HG3	1:B:438:ARG:NH1	2.04	0.71
1:A:609:ASP:O	1:A:613:ARG:HB2	1.89	0.71
1:A:1183:ALA:O	1:A:1184:ARG:C	2.34	0.71
1:A:1236:ALA:HB3	1:A:1239:ILE:CD1	2.20	0.71
1:B:60:HIS:O	1:B:63:ALA:HB3	1.89	0.71
1:B:318:ILE:HG12	1:B:324:ILE:H	1.55	0.71
1:B:1153:PHE:CZ	1:B:1176:GLN:HG2	2.26	0.71
1:A:33:VAL:N	1:A:36:LEU:HD11	2.04	0.71
1:A:208:TRP:O	1:A:209:LYS:HE2	1.90	0.71
1:A:318:ILE:HG23	1:A:735:PHE:HZ	1.55	0.71
1:A:611:LEU:HD23	1:A:618:TYR:HB2	1.71	0.71
1:A:1011:THR:O	1:A:1011:THR:HG23	1.91	0.71
1:B:286:LYS:HE2	1:B:778:GLU:HG2	1.72	0.71
1:B:422:VAL:HG22	1:B:595:ALA:O	1.90	0.71
1:B:1183:ALA:O	1:B:1187:VAL:HG23	1.90	0.71
1:A:313:GLY:O	1:A:317:VAL:HG23	1.90	0.71
1:A:470:SER:HB2	1:A:471:GLN:OE1	1.91	0.71
1:A:597:PHE:O	1:A:598:ASP:HB2	1.90	0.71
1:A:996:LYS:HD3	1:A:996:LYS:N	2.06	0.71
1:B:213:VAL:O	1:B:217:ILE:HG13	1.89	0.71
1:B:970:VAL:HG23	1:B:971:LEU:HD22	1.73	0.71
1:B:1129:TYR:HD2	1:B:1184:ARG:HB2	1.55	0.71
1:B:1147:GLU:OE1	1:B:1216:LYS:HB2	1.91	0.71
1:A:318:ILE:HG23	1:A:735:PHE:CZ	2.26	0.71
1:A:428:GLY:O	1:A:429:LYS:C	2.30	0.71
1:A:1252:THR:CG2	1:A:1255:GLN:HB2	2.19	0.71
1:B:286:LYS:C	1:B:289:ILE:HB	2.15	0.71
1:A:520:VAL:HG12	1:A:523:ARG:O	1.90	0.71
1:B:39:PHE:HE2	1:B:358:ALA:HB3	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:210:LEU:HG	1:B:322:TYR:CD2	2.24	0.71
1:B:816:ASN:O	1:B:820:GLN:HG2	1.90	0.71
1:B:855:LEU:O	1:B:858:LEU:HG	1.91	0.71
1:B:900:PHE:C	1:B:900:PHE:CD1	2.68	0.71
1:B:1096:GLU:HB2	1:B:1099:GLN:NE2	2.05	0.71
1:B:1192:ILE:HD13	1:B:1193:LEU:H	1.56	0.71
1:A:183:GLY:C	1:A:186:ILE:HG23	2.16	0.71
1:A:976:ALA:HA	1:A:979:PHE:CG	2.24	0.71
1:A:1181:ALA:O	1:A:1184:ARG:HB3	1.90	0.71
1:B:271:GLU:HG3	1:B:786:TYR:CE1	2.26	0.71
1:B:284:GLY:C	1:B:286:LYS:N	2.48	0.71
1:A:892:ILE:HD12	1:A:916:TYR:CE1	2.24	0.71
1:B:1218:ARG:NH2	1:B:1235:ASN:HD22	1.88	0.71
1:B:201:ILE:HG22	1:B:202:ILE:N	2.06	0.70
1:B:429:LYS:HD2	1:B:430:SER:H	1.54	0.70
1:B:818:ALA:O	1:B:821:VAL:HG22	1.91	0.70
1:B:845:ILE:CG2	1:B:972:LEU:HD23	2.21	0.70
1:A:132:TRP:C	1:A:132:TRP:HD1	1.97	0.70
1:A:721:GLN:CG	1:A:982:MET:HE3	2.19	0.70
1:B:300:LEU:O	1:B:303:TYR:HB3	1.91	0.70
1:B:492:THR:O	1:B:495:GLU:N	2.24	0.70
1:B:964:LEU:C	1:B:966:THR:H	1.98	0.70
1:B:1104:TRP:O	1:B:1107:ALA:N	2.20	0.70
1:B:1121:CYS:HB3	1:B:1125:GLU:HB2	1.72	0.70
1:B:1137:SER:CB	1:B:1140:GLU:HB2	2.21	0.70
1:A:209:LYS:C	1:A:212:LEU:HB3	2.14	0.70
1:A:905:SER:HB2	1:A:908:ARG:NH1	2.05	0.70
1:A:1150:ILE:O	1:A:1154:ILE:HD13	1.91	0.70
1:B:123:ILE:O	1:B:127:ILE:HG12	1.90	0.70
1:B:727:ILE:HG23	1:B:754:LEU:HG	1.73	0.70
1:B:827:SER:HG	1:B:994:TYR:HD2	1.39	0.70
1:B:1183:ALA:O	1:B:1184:ARG:C	2.33	0.70
1:A:885:GLU:HB3	1:A:923:PRO:HG3	1.73	0.70
1:B:207:GLY:HA3	1:B:211:THR:N	2.06	0.70
1:B:726:VAL:HA	1:B:729:SER:OG	1.91	0.70
1:A:72:GLY:HA2	1:A:326:GLN:NE2	2.06	0.70
1:A:797:VAL:O	1:A:799:TRP:N	2.25	0.70
1:A:1129:TYR:HD2	1:A:1184:ARG:HB2	1.55	0.70
1:A:1131:ASP:HB3	1:A:1188:ARG:NE	2.06	0.70
1:B:211:THR:HA	1:B:214:ILE:HD12	1.73	0.70
1:B:430:SER:O	1:B:433:VAL:HB	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:306:TYR:CG	1:A:307:ALA:N	2.59	0.70
1:A:527:LEU:HD23	1:A:527:LEU:H	1.55	0.70
1:A:792:MET:CE	1:A:810:LEU:HD22	2.21	0.70
1:A:911:LYS:O	1:A:914:THR:HB	1.91	0.70
1:B:128:GLN:HE21	1:B:186:ILE:HD11	1.55	0.70
1:A:201:ILE:HG22	1:A:202:ILE:N	2.06	0.70
1:A:706:TYR:O	1:A:707:PHE:CD2	2.44	0.70
1:A:853:LEU:HG	1:A:973:VAL:CG2	2.21	0.70
1:B:421:LEU:CD1	1:B:579:ILE:HD11	2.22	0.70
1:B:727:ILE:CG2	1:B:754:LEU:HG	2.22	0.70
1:A:434:GLN:HE21	1:A:439:LEU:HG	1.55	0.70
1:A:697:LEU:CA	1:A:700:ASN:HB2	2.22	0.70
1:B:362:PHE:HA	1:B:365:ILE:CB	2.22	0.70
1:B:484:ILE:HG21	1:B:496:ILE:HG13	1.74	0.70
1:B:721:GLN:HB3	1:B:722:PRO:HD3	1.74	0.70
1:B:1121:CYS:O	1:B:1165:VAL:HG13	1.92	0.70
1:A:726:VAL:HA	1:A:729:SER:OG	1.91	0.70
1:B:795:GLN:NE2	1:B:1012:PRO:HG3	2.06	0.70
1:A:239:GLU:CB	1:A:285:ILE:HG12	2.21	0.70
1:A:850:GLY:O	1:A:852:GLN:HG2	1.92	0.70
1:A:1183:ALA:C	1:A:1187:VAL:HG23	2.17	0.70
1:B:405:ILE:H	1:B:405:ILE:CD1	1.95	0.70
1:A:140:ILE:HG13	1:A:179:ASN:ND2	2.06	0.69
1:A:225:ALA:HB2	1:A:302:ILE:HG21	1.73	0.69
1:A:508:PHE:O	1:A:512:LEU:HB3	1.92	0.69
1:A:852:GLN:O	1:A:856:LEU:HB2	1.92	0.69
1:A:879:ALA:O	1:A:883:LYS:HG2	1.92	0.69
1:A:1148:ALA:O	1:A:1149:ASN:HB2	1.92	0.69
1:B:453:ASP:O	1:B:456:THR:HG23	1.91	0.69
1:B:765:THR:HG23	1:B:766:PHE:HD1	1.56	0.69
1:A:207:GLY:HA3	1:A:211:THR:H	1.55	0.69
1:A:311:TRP:NE1	1:A:754:LEU:HD13	2.07	0.69
1:A:422:VAL:HG22	1:A:595:ALA:O	1.92	0.69
1:A:708:VAL:O	1:A:711:ILE:HG23	1.92	0.69
1:A:1019:THR:O	1:A:1100:LEU:HA	1.92	0.69
1:B:850:GLY:C	1:B:851:TRP:HD1	1.98	0.69
1:A:467:GLY:HA3	1:A:545:PRO:HG3	1.73	0.69
1:A:496:ILE:O	1:A:500:VAL:HG22	1.93	0.69
1:A:543:ARG:HH21	1:A:907:THR:CG2	2.04	0.69
1:A:1096:GLU:O	1:A:1099:GLN:N	2.25	0.69
1:A:1249:GLU:O	1:A:1250:HIS:HB3	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:310:PHE:CE2	1:B:331:PHE:HB3	2.27	0.69
1:A:792:MET:HE1	1:A:810:LEU:HB3	1.72	0.69
1:B:35:VAL:CG2	1:B:36:LEU:HD23	2.22	0.69
1:A:158:TRP:CZ2	1:A:900:PHE:HB2	2.27	0.69
1:A:1126:ASN:O	1:A:1127:ILE:C	2.33	0.69
1:B:1056:VAL:CG2	1:B:1062:LEU:HB2	2.23	0.69
1:B:1011:THR:OG1	1:B:1012:PRO:HD3	1.92	0.69
1:B:1022:LEU:O	1:B:1023:LYS:C	2.35	0.69
1:B:1123:ILE:HD12	1:B:1124:ALA:N	2.08	0.69
1:A:449:ILE:O	1:A:450:ASP:C	2.34	0.69
1:A:519:LEU:HD13	1:A:519:LEU:N	2.08	0.69
1:A:604:GLU:OE1	1:A:616:GLY:HA3	1.93	0.69
1:A:845:ILE:CG2	1:A:972:LEU:HD23	2.23	0.69
1:A:857:LEU:HD12	1:A:977:ILE:HG12	1.73	0.69
1:B:512:LEU:HD12	1:B:513:PRO:CD	2.22	0.69
1:B:585:LEU:HA	1:B:588:VAL:CG2	2.22	0.69
1:B:1183:ALA:C	1:B:1187:VAL:HG23	2.17	0.69
1:A:122:LEU:HD12	1:A:939:SER:HB2	1.72	0.69
1:A:216:ALA:O	1:A:220:VAL:HG23	1.92	0.69
1:A:415:SER:C	1:A:417:GLN:H	2.01	0.69
1:A:418:THR:HB	1:A:578:THR:HG23	1.75	0.69
1:A:711:ILE:O	1:A:711:ILE:HG12	1.92	0.69
1:B:132:TRP:CD1	1:B:133:CYS:N	2.61	0.69
1:B:798:SER:CA	1:B:801:ASP:HB2	2.21	0.69
1:B:1091:PHE:CE1	1:B:1096:GLU:CG	2.74	0.69
1:B:163:ASP:O	1:B:165:GLY:N	2.25	0.69
1:B:164:VAL:HG12	1:B:164:VAL:O	1.92	0.69
1:B:607:ASN:HB3	1:B:610:GLU:HG3	1.74	0.69
1:B:611:LEU:HD23	1:B:618:TYR:HB2	1.73	0.69
1:A:242:ALA:O	1:A:281:LYS:NZ	2.26	0.69
1:A:1062:LEU:C	1:A:1062:LEU:HD13	2.18	0.69
1:B:218:SER:HB2	1:B:219:PRO:CD	2.23	0.69
1:B:318:ILE:HG23	1:B:735:PHE:CZ	2.28	0.69
1:A:1150:ILE:HA	1:A:1179:ARG:HD3	1.74	0.68
1:B:415:SER:O	1:B:417:GLN:N	2.26	0.68
1:B:470:SER:HB2	1:B:471:GLN:OE1	1.93	0.68
1:B:618:TYR:O	1:B:622:VAL:HG23	1.92	0.68
1:B:802:ASP:CG	1:B:1041:PRO:O	2.36	0.68
1:B:911:LYS:O	1:B:914:THR:HB	1.93	0.68
1:B:1255:GLN:O	1:B:1258:ALA:HB3	1.93	0.68
1:A:37:THR:O	1:A:40:ARG:N	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:103:LEU:HD22	1:A:960:VAL:H	1.57	0.68
1:A:188:MET:O	1:A:189:PHE:C	2.37	0.68
1:A:697:LEU:O	1:A:700:ASN:CB	2.41	0.68
1:A:1106:ARG:O	1:A:1109:LEU:HD22	1.92	0.68
1:B:690:PRO:HG2	1:B:1006:ARG:NH2	2.08	0.68
1:B:717:ASN:O	1:B:720:LEU:HB3	1.92	0.68
1:A:204:PHE:C	1:A:211:THR:HG21	2.18	0.68
1:A:397:TYR:HB3	1:A:398:PRO:HD2	1.75	0.68
1:A:899:ASN:O	1:A:901:ARG:N	2.27	0.68
1:B:290:THR:C	1:B:293:ILE:HB	2.18	0.68
1:B:411:LEU:HD23	1:B:412:LYS:H	1.54	0.68
1:B:552:GLU:O	1:B:553:ALA:C	2.36	0.68
1:B:899:ASN:HA	1:B:901:ARG:CZ	2.24	0.68
1:B:1153:PHE:HA	1:B:1157:LEU:CD2	2.21	0.68
1:A:424:ASN:H	1:A:598:ASP:HA	1.58	0.68
1:B:995:ALA:H	1:B:996:LYS:NZ	1.91	0.68
1:A:213:VAL:HB	1:A:331:PHE:HZ	1.56	0.68
1:A:573:ARG:HB3	1:A:578:THR:CG2	2.22	0.68
1:A:685:ASP:C	1:A:686:GLU:CG	2.65	0.68
1:A:1104:TRP:O	1:A:1107:ALA:N	2.25	0.68
1:B:283:LEU:CA	1:B:286:LYS:HB2	2.23	0.68
1:B:768:LEU:HG	1:B:769:GLN:H	1.59	0.68
1:B:1126:ASN:O	1:B:1129:TYR:N	2.25	0.68
1:A:282:ARG:HH11	1:A:282:ARG:HA	1.58	0.68
1:A:549:LEU:HD12	1:A:549:LEU:N	2.09	0.68
1:B:218:SER:HB2	1:B:219:PRO:HD3	1.74	0.68
1:B:287:LYS:O	1:B:291:ALA:CB	2.42	0.68
1:B:803:PRO:O	1:B:804:LYS:HD3	1.94	0.68
1:B:965:MET:HE2	1:B:965:MET:HA	1.76	0.68
1:A:39:PHE:CE2	1:A:358:ALA:HB3	2.29	0.68
1:A:158:TRP:O	1:A:158:TRP:HD1	1.76	0.68
1:A:214:ILE:CD1	1:A:330:VAL:HG12	2.24	0.68
1:A:1039:ASN:HD22	1:A:1047:PRO:HA	1.57	0.68
1:B:239:GLU:CB	1:B:285:ILE:HG12	2.23	0.68
1:B:375:SER:CA	1:B:376:LYS:HD2	2.23	0.68
1:B:697:LEU:C	1:B:697:LEU:HD12	2.19	0.68
1:B:1008:ILE:O	1:B:1010:LYS:HE3	1.93	0.68
1:A:114:TYR:CB	1:A:950:ALA:HB2	2.24	0.68
1:A:430:SER:O	1:A:433:VAL:HB	1.93	0.68
1:A:497:GLU:O	1:A:500:VAL:HG23	1.94	0.68
1:A:697:LEU:HD12	1:A:697:LEU:C	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1045:SER:O	1:A:1046:ILE:O	2.11	0.68
1:A:1173:SER:H	1:A:1176:GLN:NE2	1.91	0.68
1:B:278:GLU:O	1:B:282:ARG:CG	2.35	0.68
1:B:506:TYR:O	1:B:510:MET:HG2	1.94	0.68
1:B:1202:LEU:O	1:B:1203:ASP:HB3	1.92	0.68
1:A:44:TRP:CD1	1:A:45:LEU:HD22	2.29	0.68
1:A:204:PHE:HA	1:A:211:THR:HG21	1.75	0.68
1:A:1144:ALA:HB1	1:A:1183:ALA:HB1	1.75	0.68
1:A:1147:GLU:OE1	1:A:1216:LYS:HB2	1.93	0.68
1:B:44:TRP:CD1	1:B:45:LEU:HD22	2.29	0.68
1:B:288:ALA:HA	1:B:291:ALA:CB	2.24	0.68
1:B:324:ILE:HD13	1:B:326:GLN:H	1.57	0.68
1:B:342:GLY:O	1:B:346:PRO:HD2	1.94	0.68
1:B:968:GLU:C	1:B:968:GLU:CD	2.61	0.68
1:A:725:SER:HB3	1:A:975:SER:HB3	1.74	0.68
1:A:846:SER:O	1:A:849:TYR:HB2	1.93	0.68
1:B:787:MET:HB3	1:B:1008:ILE:CD1	2.24	0.68
1:B:798:SER:OG	1:B:1041:PRO:HG2	1.92	0.68
1:B:1205:GLU:O	1:B:1206:SER:C	2.37	0.68
1:A:36:LEU:HG	1:A:37:THR:H	1.59	0.67
1:A:362:PHE:HA	1:A:365:ILE:HD12	1.76	0.67
1:A:741:PRO:O	1:A:742:GLU:HB2	1.95	0.67
1:A:762:SER:O	1:A:763:PHE:C	2.37	0.67
1:B:395:PHE:HA	1:B:443:LEU:CB	2.22	0.67
1:B:1011:THR:OG1	1:B:1012:PRO:CD	2.41	0.67
1:A:376:LYS:CD	1:A:377:SER:N	2.48	0.67
1:A:521:GLY:HA3	1:A:526:GLN:OE1	1.94	0.67
1:A:1057:LYS:H	1:A:1057:LYS:HD2	1.58	0.67
1:B:379:HIS:CD2	1:B:380:LYS:H	2.12	0.67
1:B:1192:ILE:HA	1:B:1222:THR:O	1.95	0.67
1:A:385:GLN:CD	1:A:386:GLY:N	2.51	0.67
1:A:942:GLN:O	1:A:945:MET:CB	2.34	0.67
1:A:1179:ARG:NH2	1:A:1209:VAL:HG11	2.09	0.67
1:A:1266:MET:O	1:A:1269:VAL:HG12	1.94	0.67
1:B:519:LEU:HD13	1:B:519:LEU:N	2.07	0.67
1:B:543:ARG:HG2	1:B:543:ARG:HH11	1.58	0.67
1:B:912:PHE:C	1:B:914:THR:N	2.49	0.67
1:A:765:THR:CG2	1:A:766:PHE:HD1	2.08	0.67
1:A:1118:LEU:HB3	1:A:1129:TYR:OH	1.94	0.67
1:B:33:VAL:HA	1:B:37:THR:HB	1.77	0.67
1:B:459:VAL:O	1:B:462:LEU:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:520:VAL:HG12	1:B:523:ARG:O	1.94	0.67
1:B:797:VAL:CG2	1:B:1013:GLU:HG2	2.25	0.67
1:B:1063:ALA:HB3	1:B:1239:ILE:HA	1.76	0.67
1:B:1181:ALA:O	1:B:1184:ARG:HB3	1.94	0.67
1:A:202:ILE:HG12	1:A:333:SER:OG	1.94	0.67
1:A:251:GLU:OE2	1:A:811:THR:HB	1.95	0.67
1:B:61:GLY:CA	1:B:194:ALA:HB2	2.24	0.67
1:B:158:TRP:CD1	1:B:158:TRP:O	2.48	0.67
1:B:431:THR:O	1:B:435:LEU:HD22	1.95	0.67
1:B:732:VAL:HG23	1:B:733:GLY:N	2.10	0.67
1:B:797:VAL:HG12	1:B:798:SER:N	2.05	0.67
1:B:1004:ILE:HD13	1:B:1004:ILE:C	2.20	0.67
1:A:35:VAL:CG1	1:A:359:TYR:CE2	2.70	0.67
1:A:393:ILE:HD13	1:A:409:LEU:O	1.93	0.67
1:A:725:SER:HB3	1:A:975:SER:OG	1.95	0.67
1:A:907:THR:N	1:A:908:ARG:HE	1.93	0.67
1:A:1129:TYR:CD2	1:A:1184:ARG:HB2	2.30	0.67
1:B:171:LEU:C	1:B:171:LEU:HD13	2.20	0.67
1:B:765:THR:HG23	1:B:766:PHE:N	2.09	0.67
1:B:843:ILE:O	1:B:846:SER:HB2	1.93	0.67
1:B:1031:VAL:HB	1:B:1056:VAL:HG12	1.77	0.67
1:B:1097:ILE:CD1	1:B:1100:LEU:CB	2.72	0.67
1:A:431:THR:HA	1:A:434:GLN:HB2	1.76	0.67
1:A:799:TRP:HD1	1:A:800:PHE:HE1	1.42	0.67
1:A:975:SER:O	1:A:978:VAL:HG12	1.93	0.67
1:B:132:TRP:C	1:B:132:TRP:HD1	2.03	0.67
1:B:238:LYS:HE2	1:B:238:LYS:C	2.20	0.67
1:B:609:ASP:O	1:B:613:ARG:HB2	1.95	0.67
1:B:1055:GLU:HG2	1:B:1056:VAL:N	2.10	0.67
1:A:114:TYR:HB3	1:A:950:ALA:HB2	1.76	0.67
1:A:1043:ARG:N	1:A:1044:PRO:HD2	2.09	0.67
1:B:71:PHE:O	1:B:74:MET:HG2	1.95	0.67
1:B:167:LEU:HD23	1:B:168:ASN:N	2.10	0.67
1:B:214:ILE:HD11	1:B:330:VAL:CG1	2.25	0.67
1:B:221:LEU:CD1	1:B:306:TYR:HA	2.24	0.67
1:A:705:PRO:O	1:A:706:TYR:HB3	1.94	0.67
1:A:718:GLY:CA	1:A:837:ALA:CB	2.70	0.67
1:A:964:LEU:CD2	1:A:965:MET:H	2.06	0.67
1:B:509:ILE:HD12	1:B:510:MET:N	2.09	0.67
1:B:690:PRO:HG2	1:B:1006:ARG:NH1	2.10	0.67
1:B:906:LEU:C	1:B:908:ARG:NE	2.53	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1097:ILE:HD13	1:B:1100:LEU:CB	2.24	0.67
1:B:1236:ALA:HB3	1:B:1239:ILE:CD1	2.25	0.67
1:A:45:LEU:HD22	1:A:45:LEU:H	1.60	0.67
1:A:560:GLU:O	1:A:563:ALA:HB3	1.95	0.67
1:A:1014:ILE:CG2	1:A:1102:VAL:HG11	2.25	0.67
1:A:1025:ASN:C	1:A:1027:LEU:H	2.02	0.67
1:A:1066:GLY:H	1:A:1072:LYS:HE2	1.59	0.67
1:A:1169:GLY:O	1:A:1171:GLN:HG2	1.95	0.67
1:B:424:ASN:CB	1:B:598:ASP:OD1	2.42	0.67
1:B:549:LEU:HG	1:B:579:ILE:CG2	2.24	0.67
1:B:976:ALA:CA	1:B:979:PHE:CD2	2.70	0.67
1:A:102:LYS:HA	1:A:102:LYS:HE3	1.76	0.66
1:A:1116:PRO:O	1:A:1117:ILE:HB	1.96	0.66
1:B:35:VAL:CG1	1:B:359:TYR:CE2	2.68	0.66
1:B:86:LYS:HE2	1:B:738:GLY:C	2.20	0.66
1:B:304:ALA:O	1:B:307:ALA:HB3	1.95	0.66
1:B:315:SER:HB3	1:B:747:ASN:ND2	2.10	0.66
1:B:697:LEU:HA	1:B:700:ASN:HB2	1.75	0.66
1:A:267:LYS:CA	1:A:790:LYS:HE2	2.26	0.66
1:A:358:ALA:O	1:A:362:PHE:HB2	1.96	0.66
1:A:1121:CYS:HB3	1:A:1125:GLU:HB2	1.77	0.66
1:B:303:TYR:O	1:B:306:TYR:CD2	2.46	0.66
1:B:371:ILE:C	1:B:373:SER:N	2.53	0.66
1:B:1048:VAL:HG23	1:B:1049:LEU:CD2	2.24	0.66
1:A:129:VAL:CG2	1:A:938:PHE:HD1	2.09	0.66
1:A:779:ILE:HD12	1:A:783:ARG:HH21	1.60	0.66
1:B:121:VAL:HG23	1:B:122:LEU:N	2.09	0.66
1:B:242:ALA:O	1:B:281:LYS:NZ	2.28	0.66
1:B:851:TRP:N	1:B:854:THR:HG1	1.94	0.66
1:B:1116:PRO:HB3	1:B:1178:GLN:OE1	1.95	0.66
1:B:1129:TYR:CD2	1:B:1184:ARG:HB2	2.30	0.66
1:A:390:PHE:HE1	1:A:432:THR:HB	1.58	0.66
1:A:834:GLN:HG3	1:A:835:ASN:N	2.10	0.66
1:A:964:LEU:O	1:A:966:THR:N	2.29	0.66
1:B:311:TRP:CD1	1:B:754:LEU:HD13	2.30	0.66
1:B:421:LEU:HD13	1:B:579:ILE:CD1	2.25	0.66
1:B:912:PHE:O	1:B:914:THR:N	2.28	0.66
1:A:121:VAL:HG23	1:A:122:LEU:N	2.11	0.66
1:A:311:TRP:CD1	1:A:754:LEU:CD1	2.78	0.66
1:A:479:THR:HA	1:A:518:THR:O	1.96	0.66
1:A:496:ILE:HD12	1:A:496:ILE:H	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:607:ASN:HB3	1:A:610:GLU:OE2	1.94	0.66
1:A:796:ASP:OD2	1:A:797:VAL:HG23	1.96	0.66
1:A:1153:PHE:O	1:A:1157:LEU:HB2	1.95	0.66
1:B:215:LEU:O	1:B:219:PRO:HD2	1.95	0.66
1:B:219:PRO:O	1:B:223:LEU:HG	1.95	0.66
1:B:267:LYS:HA	1:B:790:LYS:HE2	1.76	0.66
1:B:459:VAL:O	1:B:460:ARG:C	2.38	0.66
1:B:706:TYR:O	1:B:707:PHE:CD2	2.48	0.66
1:B:792:MET:CE	1:B:810:LEU:HD22	2.25	0.66
1:A:132:TRP:CD1	1:A:133:CYS:N	2.63	0.66
1:A:217:ILE:HD11	1:A:331:PHE:HE2	1.61	0.66
1:A:512:LEU:HD11	1:A:518:THR:CG2	2.12	0.66
1:A:557:LEU:HG	1:A:561:SER:OG	1.96	0.66
1:A:833:PHE:O	1:A:834:GLN:C	2.39	0.66
1:A:922:ILE:HB	1:A:923:PRO:HD3	1.76	0.66
1:A:982:MET:HG2	1:A:983:ALA:H	1.59	0.66
1:A:1192:ILE:HA	1:A:1222:THR:O	1.94	0.66
1:A:1218:ARG:C	1:A:1220:GLY:H	2.02	0.66
1:B:700:ASN:O	1:B:703:GLU:N	2.29	0.66
1:B:897:ILE:HD12	1:B:898:GLU:N	2.10	0.66
1:B:981:ALA:O	1:B:984:VAL:HB	1.95	0.66
1:B:1132:ASN:OD1	1:B:1134:ARG:HG2	1.96	0.66
1:B:1266:MET:O	1:B:1269:VAL:HG12	1.95	0.66
1:A:688:VAL:CG1	1:A:1006:ARG:HH12	2.09	0.66
1:A:751:PHE:CG	1:A:752:SER:N	2.64	0.66
1:A:1062:LEU:HD12	1:A:1224:ILE:CG2	2.25	0.66
1:B:320:LYS:O	1:B:323:SER:OG	2.13	0.66
1:B:705:PRO:O	1:B:706:TYR:HB3	1.96	0.66
1:B:900:PHE:O	1:B:902:THR:N	2.22	0.66
1:B:1123:ILE:O	1:B:1127:ILE:HG13	1.95	0.66
1:A:132:TRP:HD1	1:A:133:CYS:N	1.93	0.66
1:A:279:GLU:HG2	1:A:782:LYS:HZ3	1.59	0.66
1:A:459:VAL:O	1:A:460:ARG:C	2.38	0.66
1:A:715:ILE:HG23	1:A:836:ILE:HG13	1.78	0.66
1:A:918:GLN:HE22	1:B:482:GLU:CG	2.09	0.66
1:B:188:MET:O	1:B:189:PHE:C	2.38	0.66
1:B:289:ILE:C	1:B:291:ALA:N	2.53	0.66
1:B:290:THR:HG22	1:B:770:GLY:C	2.20	0.66
1:B:311:TRP:HD1	1:B:754:LEU:HD13	1.60	0.66
1:B:549:LEU:N	1:B:549:LEU:HD12	2.11	0.66
1:B:919:SER:O	1:B:923:PRO:CD	2.40	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:975:SER:O	1:B:979:PHE:CD1	2.49	0.66
1:A:103:LEU:HB2	1:A:960:VAL:CG2	2.26	0.66
1:A:128:GLN:HE21	1:A:186:ILE:HD11	1.60	0.66
1:A:132:TRP:CD2	1:A:183:GLY:HA3	2.31	0.66
1:A:178:ILE:HD12	1:A:358:ALA:CB	2.16	0.66
1:A:510:MET:HE1	1:A:515:GLN:OE1	1.96	0.66
1:A:684:LEU:N	1:A:684:LEU:HD23	2.09	0.66
1:A:800:PHE:C	1:A:803:PRO:HD3	2.21	0.66
1:B:385:GLN:CD	1:B:386:GLY:N	2.54	0.66
1:B:394:HIS:HA	1:B:406:LEU:O	1.95	0.66
1:B:498:LYS:HZ2	1:B:502:GLU:HG3	1.61	0.66
1:A:414:LYS:H	1:A:414:LYS:HD2	1.61	0.66
1:A:706:TYR:CD1	1:A:706:TYR:C	2.73	0.66
1:A:964:LEU:C	1:A:966:THR:H	2.04	0.66
1:B:132:TRP:CD2	1:B:183:GLY:HA3	2.30	0.66
1:B:773:PHE:HB2	1:B:829:LEU:HD13	1.78	0.66
1:B:1209:VAL:O	1:B:1212:GLU:HB3	1.96	0.66
1:B:1214:LEU:O	1:B:1214:LEU:HD23	1.96	0.66
1:B:1265:SER:HA	1:B:1268:SER:OG	1.94	0.66
1:A:462:LEU:HG	1:A:466:ILE:HD12	1.77	0.65
1:A:850:GLY:O	1:A:851:TRP:C	2.38	0.65
1:A:1209:VAL:O	1:A:1212:GLU:HB3	1.95	0.65
1:B:797:VAL:C	1:B:799:TRP:H	2.03	0.65
1:B:1104:TRP:O	1:B:1105:LEU:C	2.39	0.65
1:A:918:GLN:HE22	1:B:482:GLU:CD	2.04	0.65
1:A:1046:ILE:HG22	1:A:1047:PRO:N	2.10	0.65
1:A:1144:ALA:HB2	1:A:1187:VAL:CG2	2.18	0.65
1:B:399:SER:O	1:B:401:LYS:N	2.29	0.65
1:B:859:ALA:O	1:B:863:ILE:HD13	1.96	0.65
1:B:1048:VAL:CG2	1:B:1049:LEU:HD22	2.24	0.65
1:A:372:ASP:O	1:A:373:SER:HB3	1.94	0.65
1:A:826:GLY:O	1:A:829:LEU:HB2	1.96	0.65
1:A:1005:ILE:O	1:A:1009:GLU:HG2	1.96	0.65
1:A:1218:ARG:NH2	1:A:1235:ASN:HD22	1.92	0.65
1:B:132:TRP:HD1	1:B:133:CYS:HA	1.61	0.65
1:B:202:ILE:HG12	1:B:333:SER:OG	1.96	0.65
1:B:436:MET:HA	1:B:436:MET:HE3	1.78	0.65
1:B:1021:GLY:O	1:B:1026:MET:SD	2.54	0.65
1:A:209:LYS:HA	1:A:212:LEU:HB3	1.79	0.65
1:A:288:ALA:C	1:A:291:ALA:HB3	2.21	0.65
1:A:765:THR:HG23	1:A:766:PHE:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1112:VAL:HG21	1:A:1182:ILE:HD12	1.78	0.65
1:A:1262:ILE:HD12	1:A:1262:ILE:N	2.10	0.65
1:B:1057:LYS:HB2	1:B:1060:GLN:NE2	2.12	0.65
1:B:1092:LEU:HD23	1:B:1093:ASP:N	2.11	0.65
1:A:60:HIS:O	1:A:63:ALA:HB3	1.96	0.65
1:A:177:LYS:O	1:A:354:ALA:HB2	1.96	0.65
1:A:694:TRP:O	1:A:697:LEU:CG	2.33	0.65
1:A:1005:ILE:HA	1:A:1008:ILE:HG22	1.78	0.65
1:B:125:ALA:O	1:B:129:VAL:HG23	1.96	0.65
1:B:131:PHE:HD2	1:B:131:PHE:C	2.05	0.65
1:B:290:THR:CA	1:B:293:ILE:HB	2.27	0.65
1:B:514:HIS:O	1:B:515:GLN:HB2	1.97	0.65
1:B:834:GLN:HG3	1:B:835:ASN:N	2.09	0.65
1:B:857:LEU:HD11	1:B:976:ALA:HB1	1.78	0.65
1:A:612:MET:HA	1:A:619:PHE:HB2	1.78	0.65
1:A:1092:LEU:HD23	1:A:1093:ASP:N	2.10	0.65
1:B:200:PHE:O	1:B:201:ILE:C	2.38	0.65
1:B:247:GLY:O	1:B:250:ALA:HB3	1.95	0.65
1:B:386:GLY:CA	1:B:450:ASP:HA	2.27	0.65
1:B:916:TYR:N	1:B:916:TYR:CD1	2.62	0.65
1:A:44:TRP:C	1:A:46:ASP:H	2.02	0.65
1:A:686:GLU:CD	1:A:686:GLU:N	2.55	0.65
1:A:720:LEU:HD22	1:A:761:ILE:HG22	1.76	0.65
1:A:853:LEU:O	1:A:854:THR:C	2.39	0.65
1:B:765:THR:CG2	1:B:766:PHE:HD1	2.09	0.65
1:B:1014:ILE:O	1:B:1015:ASP:CB	2.31	0.65
1:B:1091:PHE:CD1	1:B:1095:LYS:O	2.50	0.65
1:A:136:ALA:HB2	1:A:182:ILE:HB	1.79	0.65
1:A:290:THR:HA	1:A:293:ILE:HB	1.78	0.65
1:A:363:LYS:O	1:A:367:ASN:CG	2.40	0.65
1:A:387:ASN:HD22	1:A:414:LYS:CA	2.05	0.65
1:A:900:PHE:O	1:A:902:THR:N	2.26	0.65
1:B:49:TYR:OH	1:B:130:SER:CB	2.43	0.65
1:B:57:ALA:HB1	1:B:190:PHE:HB2	1.79	0.65
1:B:993:ASP:C	1:B:996:LYS:HZ1	2.05	0.65
1:A:204:PHE:CA	1:A:211:THR:HG21	2.26	0.65
1:A:1097:ILE:CD1	1:A:1105:LEU:HD13	2.27	0.65
1:B:45:LEU:HD22	1:B:45:LEU:H	1.60	0.65
1:B:72:GLY:HA3	1:B:329:THR:OG1	1.97	0.65
1:A:218:SER:HB2	1:A:219:PRO:CD	2.27	0.65
1:A:514:HIS:O	1:A:515:GLN:HB2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:552:GLU:O	1:A:553:ALA:C	2.39	0.65
1:A:693:PHE:CG	1:A:693:PHE:O	2.50	0.65
1:A:711:ILE:O	1:A:714:ALA:HB3	1.95	0.65
1:A:730:LYS:HD3	1:A:750:LEU:HD21	1.79	0.65
1:B:129:VAL:HG22	1:B:938:PHE:CD1	2.31	0.65
1:B:163:ASP:HB2	1:B:166:GLU:CB	2.22	0.65
1:B:361:VAL:O	1:B:365:ILE:CG1	2.37	0.65
1:B:790:LYS:HB2	1:B:794:ARG:NH2	2.12	0.65
1:B:984:VAL:O	1:B:987:VAL:HG12	1.97	0.65
1:B:1218:ARG:HH22	1:B:1235:ASN:ND2	1.92	0.65
1:A:121:VAL:CG2	1:A:122:LEU:N	2.60	0.64
1:A:318:ILE:CG2	1:A:735:PHE:CZ	2.80	0.64
1:A:549:LEU:HG	1:A:579:ILE:CG2	2.27	0.64
1:B:121:VAL:CG2	1:B:122:LEU:N	2.60	0.64
1:B:557:LEU:HD21	1:B:565:VAL:HG21	1.79	0.64
1:B:751:PHE:CG	1:B:752:SER:N	2.64	0.64
1:B:879:ALA:O	1:B:883:LYS:HG2	1.96	0.64
1:B:1039:ASN:HB2	1:B:1047:PRO:CG	2.26	0.64
1:A:290:THR:C	1:A:293:ILE:HB	2.22	0.64
1:A:905:SER:HB2	1:A:908:ARG:HH12	1.62	0.64
1:B:69:LEU:HA	1:B:329:THR:CG2	2.26	0.64
1:B:232:LEU:O	1:B:235:PHE:HB3	1.97	0.64
1:B:706:TYR:CD1	1:B:706:TYR:C	2.75	0.64
1:B:849:TYR:CB	1:B:854:THR:OG1	2.43	0.64
1:A:57:ALA:HB1	1:A:190:PHE:HB2	1.79	0.64
1:A:206:ARG:O	1:A:330:VAL:HG11	1.97	0.64
1:A:295:MET:HE3	1:A:298:ALA:CB	2.27	0.64
1:A:1042:THR:C	1:A:1044:PRO:CD	2.69	0.64
1:B:282:ARG:HH11	1:B:282:ARG:HA	1.62	0.64
1:B:1116:PRO:O	1:B:1117:ILE:HB	1.97	0.64
1:B:1192:ILE:HD13	1:B:1193:LEU:N	2.13	0.64
1:A:267:LYS:HB2	1:A:267:LYS:HZ3	1.61	0.64
1:A:559:THR:O	1:A:562:GLU:HB3	1.98	0.64
1:A:897:ILE:HD12	1:A:898:GLU:N	2.11	0.64
1:B:129:VAL:CG2	1:B:938:PHE:HD1	2.11	0.64
1:B:227:ILE:O	1:B:231:ILE:HG13	1.97	0.64
1:B:306:TYR:CD2	1:B:307:ALA:N	2.64	0.64
1:B:393:ILE:HG22	1:B:446:MET:N	2.13	0.64
1:B:611:LEU:HB3	1:B:618:TYR:HB3	1.78	0.64
1:B:1129:TYR:O	1:B:1131:ASP:N	2.28	0.64
1:B:1150:ILE:HB	1:B:1179:ARG:HB3	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:436:MET:O	1:A:436:MET:HE3	1.98	0.64
1:A:519:LEU:CD2	1:A:526:GLN:HE22	2.11	0.64
1:A:905:SER:CB	1:A:908:ARG:HH12	2.10	0.64
1:B:99:MET:HB3	1:B:960:VAL:O	1.98	0.64
1:B:294:SER:O	1:B:297:ALA:HB3	1.98	0.64
1:B:449:ILE:O	1:B:450:ASP:C	2.38	0.64
1:B:523:ARG:CD	1:B:524:GLY:N	2.59	0.64
1:B:732:VAL:HG23	1:B:733:GLY:H	1.62	0.64
1:A:318:ILE:HD13	1:A:323:SER:HA	1.80	0.64
1:A:564:VAL:O	1:A:567:ALA:HB3	1.97	0.64
1:A:688:VAL:HG11	1:A:1006:ARG:NH1	2.12	0.64
1:B:844:ILE:O	1:B:847:LEU:HB2	1.98	0.64
1:B:858:LEU:HD12	1:B:858:LEU:C	2.23	0.64
1:B:902:THR:C	1:B:904:VAL:N	2.54	0.64
1:B:1144:ALA:HB1	1:B:1183:ALA:HB1	1.80	0.64
1:A:454:ILE:HG23	1:A:455:ARG:N	2.13	0.64
1:B:686:GLU:HB3	1:B:688:VAL:HG13	1.78	0.64
1:B:922:ILE:HB	1:B:923:PRO:HD3	1.80	0.64
1:B:1005:ILE:HA	1:B:1008:ILE:HG22	1.79	0.64
1:A:33:VAL:HA	1:A:37:THR:HB	1.78	0.64
1:A:722:PRO:HB2	1:A:841:THR:CG2	2.27	0.64
1:A:816:ASN:O	1:A:820:GLN:HG2	1.96	0.64
1:B:279:GLU:CG	1:B:782:LYS:HZ2	1.99	0.64
1:B:351:PHE:C	1:B:351:PHE:HD1	2.05	0.64
1:A:167:LEU:O	1:A:168:ASN:C	2.40	0.64
1:A:506:TYR:CD1	1:A:509:ILE:HD11	2.33	0.64
1:A:581:ILE:HD13	1:A:581:ILE:C	2.22	0.64
1:A:764:ILE:HG22	1:A:765:THR:N	2.13	0.64
1:A:858:LEU:HD12	1:A:858:LEU:C	2.23	0.64
1:B:450:ASP:CG	1:B:451:GLY:H	2.05	0.64
1:B:762:SER:C	1:B:765:THR:HG22	2.23	0.64
1:B:1072:LYS:HB3	1:B:1226:ILE:HD13	1.78	0.64
1:A:964:LEU:CD1	1:A:965:MET:N	2.57	0.64
1:A:1218:ARG:HB2	1:A:1223:CYS:SG	2.38	0.64
1:B:69:LEU:HA	1:B:329:THR:HG21	1.79	0.64
1:B:178:ILE:HD12	1:B:358:ALA:CB	2.21	0.64
1:B:188:MET:HB2	1:B:347:ASN:HB3	1.78	0.64
1:B:332:PHE:O	1:B:335:LEU:HB3	1.98	0.64
1:B:379:HIS:CB	1:B:457:ILE:HA	2.28	0.64
1:B:409:LEU:HD22	1:B:410:ASN:H	1.60	0.64
1:B:1117:ILE:CD1	1:B:1118:LEU:H	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:573:ARG:CB	1:A:578:THR:HG21	2.26	0.63
1:A:862:PRO:O	1:A:866:ILE:HG13	1.98	0.63
1:A:976:ALA:CA	1:A:979:PHE:CD2	2.70	0.63
1:A:992:PRO:HB2	1:A:996:LYS:HZ3	1.63	0.63
1:A:1252:THR:HG23	1:A:1255:GLN:CB	2.22	0.63
1:B:100:PHE:O	1:B:104:GLU:HG2	1.98	0.63
1:B:138:ARG:NH2	1:B:928:MET:HE1	2.13	0.63
1:B:711:ILE:CD1	1:B:832:ILE:HD13	2.28	0.63
1:B:857:LEU:HD11	1:B:976:ALA:HB3	1.76	0.63
1:B:1176:GLN:O	1:B:1179:ARG:HB2	1.98	0.63
1:A:207:GLY:HA3	1:A:211:THR:N	2.11	0.63
1:A:732:VAL:HG23	1:A:733:GLY:H	1.63	0.63
1:B:157:GLY:HA2	1:B:160:ASP:OD2	1.98	0.63
1:B:167:LEU:O	1:B:168:ASN:C	2.39	0.63
1:B:265:GLY:O	1:B:267:LYS:HG3	1.97	0.63
1:B:447:VAL:HG22	1:B:454:ILE:CG2	2.28	0.63
1:A:35:VAL:HA	1:A:359:TYR:HD2	1.57	0.63
1:A:85:SER:O	1:A:88:SER:HB2	1.98	0.63
1:A:289:ILE:C	1:A:291:ALA:N	2.56	0.63
1:A:833:PHE:CG	1:A:834:GLN:N	2.65	0.63
1:A:1204:THR:OG1	1:A:1205:GLU:N	2.26	0.63
1:A:1236:ALA:HB3	1:A:1239:ILE:CG1	2.29	0.63
1:B:285:ILE:O	1:B:285:ILE:HD13	1.98	0.63
1:B:388:LEU:HD11	1:B:547:ILE:CD1	2.28	0.63
1:B:689:PRO:N	1:B:690:PRO:HD2	2.12	0.63
1:B:762:SER:O	1:B:763:PHE:C	2.42	0.63
1:B:1062:LEU:C	1:B:1062:LEU:CD1	2.71	0.63
1:B:1092:LEU:HD11	1:B:1104:TRP:CZ3	2.34	0.63
1:A:38:MET:SD	1:A:362:PHE:CE1	2.91	0.63
1:A:284:GLY:C	1:A:286:LYS:H	2.04	0.63
1:A:315:SER:HA	1:A:318:ILE:HG22	1.79	0.63
1:A:857:LEU:O	1:A:859:ALA:N	2.31	0.63
1:B:39:PHE:CE2	1:B:358:ALA:HB3	2.33	0.63
1:B:403:VAL:O	1:B:405:ILE:HD12	1.98	0.63
1:B:521:GLY:HA3	1:B:526:GLN:OE1	1.99	0.63
1:B:730:LYS:HD3	1:B:750:LEU:HD21	1.80	0.63
1:A:214:ILE:CD1	1:A:330:VAL:CG1	2.76	0.63
1:A:283:LEU:C	1:A:286:LYS:HB2	2.23	0.63
1:A:351:PHE:HD1	1:A:351:PHE:C	2.07	0.63
1:A:421:LEU:HD13	1:A:579:ILE:HD11	1.81	0.63
1:A:968:GLU:CD	1:A:968:GLU:C	2.67	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1027:LEU:O	1:A:1191:HIS:HD2	1.81	0.63
1:B:157:GLY:C	1:B:159:PHE:H	2.06	0.63
1:B:252:GLU:N	1:B:252:GLU:OE1	2.31	0.63
1:B:694:TRP:O	1:B:697:LEU:CB	2.47	0.63
1:B:722:PRO:HB2	1:B:841:THR:CG2	2.28	0.63
1:B:826:GLY:O	1:B:829:LEU:HB2	1.99	0.63
1:B:850:GLY:C	1:B:852:GLN:H	2.00	0.63
1:B:1236:ALA:CB	1:B:1239:ILE:HD11	2.29	0.63
1:A:392:ASN:O	1:A:445:GLY:HA3	1.99	0.63
1:A:450:ASP:CG	1:A:451:GLY:N	2.56	0.63
1:A:557:LEU:HD21	1:A:565:VAL:HG21	1.80	0.63
1:A:703:GLU:HA	1:A:783:ARG:HH12	1.63	0.63
1:B:132:TRP:HD1	1:B:133:CYS:N	1.95	0.63
1:B:202:ILE:HD12	1:B:203:GLY:H	1.62	0.63
1:B:851:TRP:HA	1:B:854:THR:CB	2.26	0.63
1:B:902:THR:C	1:B:904:VAL:H	2.06	0.63
1:B:1090:VAL:O	1:B:1091:PHE:HD1	1.78	0.63
1:A:131:PHE:CZ	1:A:185:LYS:NZ	2.63	0.63
1:A:131:PHE:HD2	1:A:131:PHE:C	2.07	0.63
1:A:306:TYR:CD2	1:A:307:ALA:N	2.65	0.63
1:A:916:TYR:HA	1:A:919:SER:OG	1.97	0.63
1:A:995:ALA:O	1:A:998:THR:N	2.32	0.63
1:A:1038:PHE:HD2	1:A:1049:LEU:HD23	1.62	0.63
1:A:1064:LEU:HB2	1:A:1226:ILE:HG22	1.80	0.63
1:A:1091:PHE:CD1	1:A:1096:GLU:HA	2.33	0.63
1:A:1183:ALA:O	1:A:1187:VAL:HG23	1.97	0.63
1:B:154:GLN:NE2	1:B:162:HIS:NE2	2.46	0.63
1:B:741:PRO:O	1:B:742:GLU:HB2	1.99	0.63
1:B:1154:ILE:HG12	1:B:1161:TYR:CE2	2.34	0.63
1:A:217:ILE:HD11	1:A:331:PHE:CE2	2.34	0.63
1:A:282:ARG:O	1:A:286:LYS:CB	2.44	0.63
1:A:1039:ASN:HB2	1:A:1047:PRO:CB	2.29	0.63
1:B:163:ASP:C	1:B:165:GLY:N	2.57	0.63
1:B:387:ASN:ND2	1:B:414:LYS:HA	2.05	0.63
1:B:581:ILE:HD13	1:B:581:ILE:C	2.24	0.63
1:B:894:THR:O	1:B:898:GLU:HB3	1.99	0.63
1:A:96:LYS:HE3	1:A:962:GLN:HE22	1.62	0.63
1:A:183:GLY:O	1:A:186:ILE:HG23	1.97	0.63
1:A:435:LEU:C	1:A:437:GLN:N	2.54	0.63
1:A:711:ILE:CG1	1:A:832:ILE:HG21	2.29	0.63
1:A:857:LEU:CD2	1:A:857:LEU:C	2.71	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1121:CYS:O	1:A:1165:VAL:HG13	1.98	0.63
1:A:1123:ILE:HD12	1:A:1124:ALA:N	2.14	0.63
1:B:156:ILE:O	1:B:160:ASP:OD1	2.16	0.63
1:B:175:VAL:HG13	1:B:176:SER:N	2.14	0.63
1:B:318:ILE:HG23	1:B:735:PHE:HZ	1.62	0.63
1:B:843:ILE:HA	1:B:846:SER:OG	1.98	0.63
1:B:896:ALA:HB2	1:B:912:PHE:CE1	2.33	0.63
1:B:908:ARG:HE	1:B:908:ARG:N	1.96	0.63
1:A:251:GLU:O	1:A:254:LEU:HD11	1.98	0.62
1:A:278:GLU:O	1:A:282:ARG:CG	2.41	0.62
1:A:722:PRO:HG2	1:A:841:THR:HB	1.80	0.62
1:B:198:GLY:O	1:B:202:ILE:HG13	1.99	0.62
1:B:221:LEU:HD12	1:B:306:TYR:HA	1.79	0.62
1:B:363:LYS:O	1:B:367:ASN:CG	2.42	0.62
1:B:500:VAL:O	1:B:503:ALA:N	2.32	0.62
1:B:883:LYS:HA	1:B:886:LEU:HD21	1.81	0.62
1:B:911:LYS:O	1:B:915:MET:HG3	1.99	0.62
1:A:163:ASP:HB2	1:A:166:GLU:CB	2.27	0.62
1:A:438:ARG:HG3	1:A:438:ARG:NH1	2.05	0.62
1:A:900:PHE:C	1:A:902:THR:N	2.54	0.62
1:A:906:LEU:C	1:A:908:ARG:NE	2.56	0.62
1:A:908:ARG:O	1:A:911:LYS:CB	2.44	0.62
1:B:38:MET:SD	1:B:362:PHE:CZ	2.91	0.62
1:B:318:ILE:CD1	1:B:325:GLY:H	2.12	0.62
1:B:1065:VAL:HG13	1:B:1241:VAL:HA	1.81	0.62
1:A:43:GLY:CA	1:A:46:ASP:HB2	2.29	0.62
1:A:285:ILE:O	1:A:285:ILE:HD13	1.99	0.62
1:A:713:CYS:CB	1:A:768:LEU:HD21	2.28	0.62
1:A:1009:GLU:OE1	1:A:1009:GLU:HA	1.99	0.62
1:A:1019:THR:OG1	1:A:1101:ASN:CA	2.47	0.62
1:A:1032:GLN:HE21	1:A:1055:GLU:HG3	1.64	0.62
1:A:1197:GLU:O	1:A:1198:ALA:C	2.42	0.62
1:B:484:ILE:HG21	1:B:496:ILE:HG23	1.81	0.62
1:B:697:LEU:HB3	1:B:828:ARG:NH2	2.14	0.62
1:A:303:TYR:O	1:A:306:TYR:HB3	2.00	0.62
1:A:315:SER:CB	1:A:747:ASN:CG	2.73	0.62
1:A:831:VAL:O	1:A:832:ILE:C	2.43	0.62
1:A:912:PHE:C	1:A:914:THR:N	2.54	0.62
1:A:1056:VAL:HG21	1:A:1062:LEU:HB2	1.79	0.62
1:B:133:CYS:HB3	1:B:931:ALA:HB1	1.81	0.62
1:B:957:ALA:O	1:B:958:TYR:O	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:192:ALA:O	1:A:195:THR:HG23	1.98	0.62
1:A:253:VAL:CG1	1:A:254:LEU:N	2.61	0.62
1:A:493:MET:CA	1:A:496:ILE:HD13	2.30	0.62
1:A:857:LEU:HD12	1:A:977:ILE:CG1	2.29	0.62
1:A:1020:GLN:NE2	1:A:1022:LEU:H	1.96	0.62
1:A:1180:ILE:O	1:A:1183:ALA:HB3	1.99	0.62
1:B:225:ALA:HB2	1:B:302:ILE:HG21	1.82	0.62
1:B:295:MET:HE3	1:B:298:ALA:HB2	1.80	0.62
1:B:853:LEU:O	1:B:854:THR:C	2.42	0.62
1:A:175:VAL:O	1:A:178:ILE:HG12	1.98	0.62
1:A:593:VAL:C	1:A:594:ILE:HD12	2.25	0.62
1:A:812:THR:HG22	1:A:816:ASN:ND2	2.15	0.62
1:B:186:ILE:CG1	1:B:187:GLY:N	2.61	0.62
1:B:210:LEU:HA	1:B:213:VAL:CG2	2.24	0.62
1:B:454:ILE:HG23	1:B:455:ARG:N	2.10	0.62
1:B:508:PHE:CE1	1:B:509:ILE:HG23	2.35	0.62
1:B:911:LYS:C	1:B:914:THR:HB	2.24	0.62
1:A:177:LYS:O	1:A:354:ALA:CB	2.47	0.62
1:A:295:MET:HE3	1:A:298:ALA:HB2	1.81	0.62
1:A:716:ILE:C	1:A:716:ILE:HD12	2.25	0.62
1:A:1011:THR:O	1:A:1013:GLU:N	2.32	0.62
1:A:1176:GLN:O	1:A:1179:ARG:HB2	1.99	0.62
1:B:257:ILE:HG21	1:B:800:PHE:CD2	2.34	0.62
1:B:365:ILE:HG22	1:B:366:ASP:N	2.14	0.62
1:B:607:ASN:HB3	1:B:610:GLU:OE2	1.99	0.62
1:B:718:GLY:CA	1:B:837:ALA:CB	2.73	0.62
1:B:718:GLY:O	1:B:722:PRO:CD	2.46	0.62
1:B:765:THR:CG2	1:B:766:PHE:N	2.62	0.62
1:B:803:PRO:C	1:B:804:LYS:HD3	2.24	0.62
1:B:808:GLY:O	1:B:810:LEU:N	2.33	0.62
1:B:994:TYR:O	1:B:998:THR:OG1	2.14	0.62
1:B:1205:GLU:O	1:B:1208:LYS:N	2.33	0.62
1:A:426:GLY:CA	1:A:429:LYS:HZ1	2.11	0.62
1:A:1032:GLN:O	1:A:1090:VAL:HA	2.00	0.62
1:A:1143:ARG:O	1:A:1146:LYS:HB2	2.00	0.62
1:A:1153:PHE:HA	1:A:1157:LEU:CD2	2.25	0.62
1:B:99:MET:HB2	1:B:961:THR:O	1.99	0.62
1:B:131:PHE:C	1:B:131:PHE:CD2	2.76	0.62
1:B:342:GLY:O	1:B:346:PRO:CD	2.47	0.62
1:A:409:LEU:HD22	1:A:410:ASN:H	1.60	0.62
1:A:498:LYS:C	1:A:498:LYS:HE2	2.25	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:813:ARG:HD3	1:A:817:ASP:OD2	2.00	0.62
1:A:867:ALA:O	1:A:868:GLY:C	2.42	0.62
1:B:70:ILE:HD13	1:B:113:TYR:HB2	1.80	0.62
1:B:512:LEU:HD12	1:B:513:PRO:HD2	1.81	0.62
1:B:766:PHE:O	1:B:767:PHE:C	2.43	0.62
1:B:975:SER:O	1:B:978:VAL:HG12	2.00	0.62
1:A:131:PHE:O	1:A:132:TRP:C	2.43	0.62
1:A:155:GLU:OE1	1:A:155:GLU:HA	1.99	0.62
1:A:186:ILE:CG1	1:A:187:GLY:N	2.61	0.62
1:A:208:TRP:O	1:A:209:LYS:HB2	1.99	0.62
1:A:283:LEU:HA	1:A:286:LYS:HB2	1.82	0.62
1:A:294:SER:O	1:A:297:ALA:HB3	1.99	0.62
1:A:387:ASN:ND2	1:A:414:LYS:HA	2.10	0.62
1:A:397:TYR:CB	1:A:398:PRO:HD2	2.30	0.62
1:A:685:ASP:C	1:A:686:GLU:CD	2.67	0.62
1:A:765:THR:C	1:A:769:GLN:HE21	2.07	0.62
1:A:801:ASP:HB3	1:A:1083:TYR:CE2	2.34	0.62
1:B:178:ILE:HD13	1:B:178:ILE:N	2.14	0.62
1:B:1010:LYS:O	1:B:1011:THR:CG2	2.43	0.62
1:B:1252:THR:HG23	1:B:1255:GLN:CB	2.21	0.62
1:A:100:PHE:O	1:A:104:GLU:HG2	1.99	0.61
1:A:840:GLY:O	1:A:844:ILE:HG12	2.00	0.61
1:A:954:ARG:HH11	1:A:954:ARG:HG3	1.64	0.61
1:A:1206:SER:O	1:A:1210:VAL:HG23	1.99	0.61
1:B:278:GLU:HA	1:B:282:ARG:CZ	2.30	0.61
1:B:573:ARG:O	1:B:575:GLY:N	2.27	0.61
1:A:383:ASN:C	1:A:384:ILE:HD12	2.25	0.61
1:A:569:LEU:O	1:A:572:ALA:HB3	2.01	0.61
1:A:993:ASP:O	1:A:994:TYR:C	2.41	0.61
1:B:1173:SER:H	1:B:1176:GLN:HE22	1.48	0.61
1:A:275:ASN:OD1	1:A:782:LYS:HB3	2.00	0.61
1:A:297:ALA:HB1	1:A:763:PHE:HD2	1.62	0.61
1:A:380:LYS:HE2	1:A:461:TYR:CD2	2.36	0.61
1:A:403:VAL:O	1:A:405:ILE:HD12	2.00	0.61
1:A:1017:TYR:C	1:A:1101:ASN:HD22	2.07	0.61
1:A:1020:GLN:HB3	1:A:1100:LEU:HD12	1.83	0.61
1:B:133:CYS:HB3	1:B:931:ALA:CB	2.30	0.61
1:B:317:VAL:O	1:B:317:VAL:HG12	2.00	0.61
1:B:912:PHE:C	1:B:914:THR:H	2.08	0.61
1:B:1193:LEU:HB2	1:B:1223:CYS:CB	2.27	0.61
1:A:61:GLY:HA2	1:A:194:ALA:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:ILE:HG22	1:A:446:MET:N	2.15	0.61
1:A:601:VAL:HG13	1:A:601:VAL:O	1.99	0.61
1:A:760:ILE:O	1:A:761:ILE:C	2.43	0.61
1:A:1053:SER:C	1:A:1054:LEU:HD13	2.25	0.61
1:B:253:VAL:CG1	1:B:254:LEU:N	2.63	0.61
1:B:497:GLU:O	1:B:500:VAL:HG23	2.00	0.61
1:A:35:VAL:HG23	1:A:36:LEU:HD23	1.82	0.61
1:A:779:ILE:HD12	1:A:783:ARG:NH2	2.15	0.61
1:B:90:ASN:HB3	1:B:91:MET:HE3	1.81	0.61
1:B:216:ALA:O	1:B:220:VAL:HG23	2.00	0.61
1:B:1053:SER:C	1:B:1054:LEU:HD13	2.25	0.61
1:B:1079:LEU:C	1:B:1081:ARG:H	2.07	0.61
1:B:1164:ARG:C	1:B:1166:GLY:N	2.55	0.61
1:A:287:LYS:O	1:A:291:ALA:CB	2.47	0.61
1:A:300:LEU:O	1:A:303:TYR:HB3	2.00	0.61
1:A:543:ARG:HG2	1:A:543:ARG:HH11	1.64	0.61
1:A:732:VAL:HG23	1:A:733:GLY:N	2.15	0.61
1:A:889:SER:O	1:A:892:ILE:HG12	2.00	0.61
1:A:1172:LEU:HD22	1:A:1176:GLN:HE21	1.64	0.61
1:B:70:ILE:HG21	1:B:113:TYR:HD1	1.60	0.61
1:B:290:THR:HG22	1:B:770:GLY:O	2.00	0.61
1:B:361:VAL:HG12	1:B:364:ILE:HD12	1.83	0.61
1:B:612:MET:HA	1:B:619:PHE:HB2	1.83	0.61
1:B:720:LEU:O	1:B:723:ALA:HB3	2.00	0.61
1:B:1030:ASN:OD1	1:B:1058:LYS:N	2.32	0.61
1:B:1043:ARG:N	1:B:1044:PRO:HD2	2.15	0.61
1:B:1064:LEU:HB2	1:B:1226:ILE:HG22	1.82	0.61
1:B:1100:LEU:HD21	1:B:1104:TRP:CE3	2.35	0.61
1:B:1153:PHE:O	1:B:1157:LEU:HB2	2.00	0.61
1:B:1206:SER:O	1:B:1210:VAL:HG23	2.01	0.61
1:A:453:ASP:O	1:A:456:THR:HG23	2.00	0.61
1:A:461:TYR:O	1:A:465:ILE:HG12	2.01	0.61
1:A:766:PHE:O	1:A:767:PHE:C	2.43	0.61
1:A:925:ARG:NH1	1:B:517:ASP:O	2.34	0.61
1:B:210:LEU:HD23	1:B:317:VAL:CG1	2.25	0.61
1:B:265:GLY:O	1:B:267:LYS:NZ	2.32	0.61
1:B:318:ILE:HD12	1:B:735:PHE:HE1	1.64	0.61
1:B:1143:ARG:O	1:B:1146:LYS:HB2	2.01	0.61
1:A:257:ILE:HG21	1:A:800:PHE:CD2	2.36	0.61
1:A:1255:GLN:O	1:A:1258:ALA:HB3	2.00	0.61
1:B:98:ALA:O	1:B:101:ALA:HB3	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:471:GLN:O	1:B:472:GLU:C	2.42	0.61
1:B:702:THR:C	1:B:704:TRP:H	2.09	0.61
1:B:713:CYS:SG	1:B:768:LEU:HD11	2.41	0.61
1:B:1038:PHE:HD2	1:B:1049:LEU:HD23	1.66	0.61
1:A:129:VAL:HG22	1:A:938:PHE:HD1	1.66	0.61
1:A:154:GLN:NE2	1:A:162:HIS:NE2	2.49	0.61
1:A:351:PHE:C	1:A:351:PHE:CD1	2.79	0.61
1:A:795:GLN:O	1:A:796:ASP:HB3	2.01	0.61
1:A:894:THR:O	1:A:898:GLU:HB3	2.01	0.61
1:A:899:ASN:HA	1:A:901:ARG:CZ	2.31	0.61
1:B:263:PHE:CD2	1:B:266:GLN:NE2	2.69	0.61
1:B:324:ILE:HB	1:B:326:GLN:HB2	1.82	0.61
1:B:351:PHE:C	1:B:351:PHE:CD1	2.76	0.61
1:B:564:VAL:O	1:B:567:ALA:HB3	2.01	0.61
1:B:796:ASP:C	1:B:797:VAL:O	2.44	0.61
1:B:958:TYR:CD2	1:B:959:LEU:HB2	2.34	0.61
1:B:1039:ASN:CB	1:B:1047:PRO:HG3	2.29	0.61
1:B:1090:VAL:HG22	1:B:1097:ILE:HB	1.82	0.61
1:B:1239:ILE:N	1:B:1239:ILE:CD1	2.63	0.61
1:A:153:ASN:HA	1:A:155:GLU:OE2	1.99	0.61
1:A:213:VAL:HB	1:A:331:PHE:CZ	2.34	0.61
1:A:883:LYS:HA	1:A:886:LEU:HD21	1.83	0.61
1:B:236:THR:O	1:B:239:GLU:HB2	2.00	0.61
1:B:288:ALA:C	1:B:291:ALA:HB3	2.25	0.61
1:B:559:THR:O	1:B:562:GLU:HB3	2.00	0.61
1:B:790:LYS:C	1:B:794:ARG:HH21	2.09	0.61
1:B:867:ALA:O	1:B:868:GLY:C	2.42	0.61
1:B:954:ARG:HH11	1:B:954:ARG:HG3	1.65	0.61
1:A:238:LYS:HE2	1:A:238:LYS:C	2.24	0.60
1:A:292:ASN:O	1:A:295:MET:HB2	2.01	0.60
1:A:735:PHE:O	1:A:735:PHE:CD1	2.53	0.60
1:A:765:THR:C	1:A:769:GLN:NE2	2.59	0.60
1:A:845:ILE:O	1:A:849:TYR:CD2	2.54	0.60
1:A:1018:SER:O	1:A:1101:ASN:HB2	2.01	0.60
1:A:1128:ALA:O	1:A:1129:TYR:C	2.44	0.60
1:B:385:GLN:NE2	1:B:386:GLY:N	2.47	0.60
1:B:852:GLN:O	1:B:955:PHE:CE1	2.55	0.60
1:B:1057:LYS:H	1:B:1057:LYS:HD2	1.66	0.60
1:A:54:THR:O	1:A:57:ALA:HB3	2.00	0.60
1:A:362:PHE:CA	1:A:365:ILE:HB	2.29	0.60
1:A:700:ASN:O	1:A:703:GLU:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:158:TRP:CZ2	1:B:900:PHE:HB2	2.35	0.60
1:B:688:VAL:HB	1:B:1006:ARG:HH12	1.66	0.60
1:B:1100:LEU:HD21	1:B:1104:TRP:HZ3	1.64	0.60
1:A:171:LEU:C	1:A:171:LEU:HD13	2.27	0.60
1:A:186:ILE:C	1:A:186:ILE:HD12	2.26	0.60
1:A:215:LEU:O	1:A:219:PRO:HD2	2.02	0.60
1:A:345:SER:HB3	1:A:346:PRO:HD3	1.83	0.60
1:A:406:LEU:HD21	1:A:432:THR:HG23	1.82	0.60
1:A:585:LEU:HD13	1:A:588:VAL:HG21	1.83	0.60
1:A:625:GLN:O	1:A:626:THR:HB	2.01	0.60
1:A:688:VAL:HB	1:A:1006:ARG:NH1	2.15	0.60
1:A:709:VAL:HG22	1:A:710:GLY:N	2.15	0.60
1:A:720:LEU:O	1:A:723:ALA:HB3	2.01	0.60
1:A:972:LEU:O	1:A:975:SER:HB2	2.01	0.60
1:A:995:ALA:O	1:A:996:LYS:C	2.43	0.60
1:B:136:ALA:HB2	1:B:182:ILE:HB	1.82	0.60
1:B:295:MET:HE3	1:B:298:ALA:CB	2.30	0.60
1:B:849:TYR:HB2	1:B:854:THR:HG23	1.83	0.60
1:B:1118:LEU:HB3	1:B:1129:TYR:OH	2.01	0.60
1:A:70:ILE:HD13	1:A:113:TYR:HB2	1.84	0.60
1:A:498:LYS:HZ1	1:A:502:GLU:HG3	1.65	0.60
1:B:58:ILE:O	1:B:62:VAL:HG23	2.01	0.60
1:B:218:SER:CB	1:B:219:PRO:HD3	2.31	0.60
1:B:257:ILE:HD12	1:B:257:ILE:O	2.01	0.60
1:B:359:TYR:O	1:B:362:PHE:HB3	2.00	0.60
1:B:492:THR:H	1:B:495:GLU:CD	2.07	0.60
1:A:1033:PHE:CD1	1:A:1036:VAL:HG21	2.36	0.60
1:A:1079:LEU:HD23	1:A:1194:LEU:HD11	1.82	0.60
1:A:1094:GLY:C	1:A:1095:LYS:CG	2.70	0.60
1:B:885:GLU:HB3	1:B:923:PRO:CG	2.31	0.60
1:B:1091:PHE:C	1:B:1093:ASP:H	2.10	0.60
1:A:267:LYS:HB3	1:A:790:LYS:CE	2.28	0.60
1:A:267:LYS:O	1:A:790:LYS:CE	2.50	0.60
1:A:894:THR:O	1:A:895:GLU:C	2.44	0.60
1:B:282:ARG:O	1:B:286:LYS:CB	2.49	0.60
1:A:131:PHE:C	1:A:131:PHE:CD2	2.78	0.60
1:A:786:TYR:HE2	1:A:790:LYS:NZ	1.94	0.60
1:A:853:LEU:CA	1:A:856:LEU:CB	2.73	0.60
1:A:911:LYS:C	1:A:914:THR:HB	2.25	0.60
1:A:970:VAL:HG23	1:A:971:LEU:CD2	2.32	0.60
1:A:1045:SER:C	1:A:1046:ILE:O	2.41	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:282:ARG:HH11	1:B:282:ARG:N	1.98	0.60
1:B:425:SER:OG	1:B:598:ASP:O	2.20	0.60
1:B:740:PRO:HG2	1:B:741:PRO:HD3	1.84	0.60
1:B:909:GLU:O	1:B:912:PHE:HB2	2.02	0.60
1:A:227:ILE:O	1:A:231:ILE:HG13	2.01	0.60
1:A:289:ILE:HG22	1:A:290:THR:N	2.16	0.60
1:B:251:GLU:O	1:B:254:LEU:HD11	2.01	0.60
1:B:812:THR:HG22	1:B:816:ASN:ND2	2.17	0.60
1:B:916:TYR:HA	1:B:919:SER:OG	2.00	0.60
1:B:1076:VAL:CG1	1:B:1194:LEU:HD13	2.31	0.60
1:B:1092:LEU:HD11	1:B:1104:TRP:HZ3	1.67	0.60
1:B:1197:GLU:OE2	1:B:1228:HIS:HB2	2.02	0.60
1:A:68:MET:HA	1:A:68:MET:HE2	1.82	0.60
1:A:132:TRP:HD1	1:A:133:CYS:HA	1.66	0.60
1:A:157:GLY:C	1:A:159:PHE:H	2.09	0.60
1:A:232:LEU:O	1:A:235:PHE:HB3	2.01	0.60
1:A:342:GLY:O	1:A:346:PRO:HD2	2.02	0.60
1:A:942:GLN:N	1:A:942:GLN:OE1	2.35	0.60
1:A:1096:GLU:C	1:A:1098:LYS:N	2.58	0.60
1:A:1214:LEU:HD23	1:A:1214:LEU:C	2.27	0.60
1:B:362:PHE:CA	1:B:365:ILE:HB	2.27	0.60
1:B:459:VAL:O	1:B:461:TYR:N	2.35	0.60
1:B:1040:TYR:O	1:B:1041:PRO:C	2.44	0.60
1:A:110:TYR:O	1:A:113:TYR:HD2	1.83	0.60
1:A:175:VAL:HG13	1:A:176:SER:N	2.16	0.60
1:A:284:GLY:C	1:A:286:LYS:N	2.58	0.60
1:A:1004:ILE:O	1:A:1008:ILE:HG22	2.02	0.60
1:A:1084:ASP:OD1	1:A:1085:PRO:HD2	2.02	0.60
1:A:1097:ILE:HD11	1:A:1100:LEU:HD22	1.84	0.60
1:B:43:GLY:CA	1:B:46:ASP:HB2	2.32	0.60
1:B:157:GLY:HA2	1:B:160:ASP:HB2	1.82	0.60
1:B:857:LEU:HD23	1:B:858:LEU:H	1.65	0.60
1:B:1230:LEU:HD12	1:B:1270:GLN:HB2	1.83	0.60
1:A:209:LYS:HA	1:A:212:LEU:CB	2.32	0.59
1:A:253:VAL:HG12	1:A:254:LEU:N	2.17	0.59
1:A:374:PHE:CE1	1:A:376:LYS:CB	2.84	0.59
1:A:1236:ALA:CB	1:A:1239:ILE:HD11	2.30	0.59
1:B:157:GLY:HA2	1:B:160:ASP:CB	2.31	0.59
1:B:787:MET:HB3	1:B:1008:ILE:HD12	1.84	0.59
1:B:936:ILE:O	1:B:939:SER:OG	2.17	0.59
1:B:1045:SER:C	1:B:1046:ILE:O	2.42	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:90:ASN:HB2	1:A:91:MET:HE3	1.83	0.59
1:A:155:GLU:HB3	1:A:156:ILE:CD1	2.31	0.59
1:A:512:LEU:HD12	1:A:513:PRO:CG	2.33	0.59
1:A:1091:PHE:HE1	1:A:1096:GLU:HA	1.63	0.59
1:B:293:ILE:HG21	1:B:770:GLY:HA3	1.82	0.59
1:B:694:TRP:O	1:B:697:LEU:CG	2.49	0.59
1:B:816:ASN:OD1	1:B:817:ASP:N	2.35	0.59
1:B:904:VAL:HG13	1:B:905:SER:N	2.18	0.59
1:A:318:ILE:HD12	1:A:735:PHE:CE1	2.38	0.59
1:A:685:ASP:C	1:A:686:GLU:HG3	2.27	0.59
1:A:727:ILE:CG2	1:A:754:LEU:HG	2.31	0.59
1:A:881:LYS:HB2	1:A:881:LYS:NZ	2.17	0.59
1:A:916:TYR:N	1:A:916:TYR:CD1	2.65	0.59
1:B:292:ASN:O	1:B:295:MET:HB2	2.02	0.59
1:B:907:THR:N	1:B:908:ARG:NE	2.50	0.59
1:B:1192:ILE:O	1:B:1193:LEU:HD23	2.03	0.59
1:A:61:GLY:HA3	1:A:194:ALA:HB2	1.82	0.59
1:A:236:THR:O	1:A:239:GLU:HB2	2.02	0.59
1:A:324:ILE:HD13	1:A:326:GLN:H	1.66	0.59
1:A:399:SER:O	1:A:401:LYS:N	2.36	0.59
1:A:910:GLN:O	1:A:911:LYS:C	2.43	0.59
1:A:1099:GLN:CG	1:A:1099:GLN:O	2.50	0.59
1:A:1262:ILE:H	1:A:1262:ILE:CD1	2.14	0.59
1:B:195:THR:HB	1:B:340:SER:OG	2.03	0.59
1:B:268:LYS:O	1:B:268:LYS:HD3	2.02	0.59
1:B:283:LEU:HD12	1:B:284:GLY:N	2.16	0.59
1:B:548:LEU:HB3	1:B:578:THR:HB	1.85	0.59
1:B:557:LEU:HG	1:B:561:SER:OG	2.03	0.59
1:B:1099:GLN:O	1:B:1099:GLN:CG	2.50	0.59
1:A:167:LEU:O	1:A:170:ARG:N	2.36	0.59
1:A:315:SER:HA	1:A:318:ILE:CG2	2.33	0.59
1:A:512:LEU:HD12	1:A:513:PRO:N	2.17	0.59
1:A:548:LEU:HB3	1:A:578:THR:HB	1.83	0.59
1:A:799:TRP:CD1	1:A:800:PHE:CE1	2.87	0.59
1:A:964:LEU:HD13	1:A:964:LEU:C	2.28	0.59
1:B:908:ARG:NE	1:B:908:ARG:N	2.50	0.59
1:B:910:GLN:O	1:B:911:LYS:C	2.45	0.59
1:A:195:THR:HB	1:A:340:SER:OG	2.02	0.59
1:A:1137:SER:HG	1:A:1140:GLU:HB2	1.66	0.59
1:B:282:ARG:HD3	1:B:286:LYS:NZ	2.18	0.59
1:B:397:TYR:HB3	1:B:398:PRO:HD2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:523:ARG:HD3	1:B:524:GLY:N	2.04	0.59
1:B:625:GLN:O	1:B:626:THR:HB	2.02	0.59
1:B:857:LEU:HD13	1:B:976:ALA:HB3	1.82	0.59
1:B:1097:ILE:CD1	1:B:1100:LEU:HB3	2.32	0.59
1:B:1128:ALA:O	1:B:1129:TYR:C	2.46	0.59
1:A:838:ASN:HD22	1:A:839:LEU:N	1.99	0.59
1:A:904:VAL:HG13	1:A:905:SER:N	2.18	0.59
1:A:909:GLU:OE2	1:A:909:GLU:CA	2.51	0.59
1:B:115:THR:O	1:B:116:GLY:C	2.46	0.59
1:B:699:LEU:O	1:B:700:ASN:C	2.45	0.59
1:B:908:ARG:O	1:B:909:GLU:C	2.45	0.59
1:A:71:PHE:HA	1:A:74:MET:CE	2.28	0.59
1:A:204:PHE:HA	1:A:211:THR:CG2	2.33	0.59
1:A:472:GLU:HG3	1:A:472:GLU:O	2.01	0.59
1:A:527:LEU:HD23	1:A:527:LEU:N	2.18	0.59
1:A:797:VAL:HG12	1:A:798:SER:N	2.16	0.59
1:A:844:ILE:O	1:A:847:LEU:HB2	2.02	0.59
1:A:961:THR:O	1:A:962:GLN:CB	2.50	0.59
1:B:601:VAL:O	1:B:601:VAL:HG13	2.03	0.59
1:B:900:PHE:C	1:B:902:THR:N	2.51	0.59
1:B:1057:LYS:HD2	1:B:1057:LYS:N	2.18	0.59
1:A:69:LEU:HA	1:A:329:THR:CG2	2.31	0.59
1:A:114:TYR:HD2	1:A:946:TYR:CE2	2.21	0.59
1:A:438:ARG:NH1	1:A:455:ARG:HA	2.17	0.59
1:A:747:ASN:O	1:A:748:SER:C	2.45	0.59
1:A:768:LEU:HD12	1:A:768:LEU:C	2.27	0.59
1:A:797:VAL:C	1:A:801:ASP:HB2	2.28	0.59
1:A:987:VAL:HG13	1:A:988:SER:N	2.18	0.59
1:B:371:ILE:O	1:B:373:SER:N	2.36	0.59
1:B:405:ILE:HD12	1:B:405:ILE:N	2.02	0.59
1:B:457:ILE:HD11	1:B:462:LEU:HD12	1.84	0.59
1:A:182:ILE:HD13	1:A:182:ILE:N	2.18	0.59
1:A:204:PHE:O	1:A:211:THR:CG2	2.45	0.59
1:A:283:LEU:HD12	1:A:284:GLY:N	2.17	0.59
1:A:509:ILE:HD12	1:A:509:ILE:C	2.27	0.59
1:A:845:ILE:HA	1:A:848:ILE:HG23	1.83	0.59
1:A:921:GLN:HG2	1:A:922:ILE:N	2.18	0.59
1:B:110:TYR:O	1:B:113:TYR:HD2	1.86	0.59
1:B:266:GLN:O	1:B:267:LYS:CB	2.48	0.59
1:B:447:VAL:HG22	1:B:454:ILE:HG22	1.85	0.59
1:B:765:THR:HG23	1:B:766:PHE:CD1	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:827:SER:O	1:B:831:VAL:HG23	2.03	0.59
1:B:1208:LYS:HD3	1:B:1209:VAL:N	2.18	0.59
1:A:304:ALA:HB2	1:A:758:LEU:CD2	2.33	0.58
1:A:459:VAL:O	1:A:462:LEU:N	2.35	0.58
1:A:484:ILE:HG23	1:A:542:VAL:HG21	1.84	0.58
1:A:611:LEU:HB3	1:A:618:TYR:CB	2.31	0.58
1:A:712:PHE:O	1:A:715:ILE:HG12	2.03	0.58
1:A:765:THR:CG2	1:A:766:PHE:N	2.65	0.58
1:A:819:ALA:O	1:A:822:LYS:HB3	2.03	0.58
1:B:362:PHE:HA	1:B:365:ILE:CD1	2.33	0.58
1:B:566:GLN:HA	1:B:569:LEU:HD12	1.84	0.58
1:B:1164:ARG:C	1:B:1166:GLY:H	2.11	0.58
1:A:254:LEU:N	1:A:254:LEU:CD2	2.65	0.58
1:A:406:LEU:HD11	1:A:432:THR:CG2	2.33	0.58
1:A:421:LEU:CD1	1:A:579:ILE:HD11	2.33	0.58
1:A:492:THR:O	1:A:495:GLU:N	2.33	0.58
1:A:816:ASN:OD1	1:A:817:ASP:N	2.36	0.58
1:A:839:LEU:O	1:A:842:GLY:N	2.37	0.58
1:B:61:GLY:HA3	1:B:194:ALA:HB2	1.85	0.58
1:B:206:ARG:O	1:B:211:THR:HB	2.03	0.58
1:B:283:LEU:C	1:B:286:LYS:HB2	2.28	0.58
1:B:393:ILE:H	1:B:393:ILE:HD13	1.67	0.58
1:B:713:CYS:CB	1:B:768:LEU:HD21	2.33	0.58
1:B:734:VAL:HG22	1:B:734:VAL:O	2.02	0.58
1:B:1064:LEU:HB3	1:B:1226:ILE:HB	1.84	0.58
1:B:1218:ARG:O	1:B:1220:GLY:N	2.36	0.58
1:A:290:THR:CA	1:A:293:ILE:HB	2.34	0.58
1:A:762:SER:C	1:A:765:THR:HG22	2.26	0.58
1:A:939:SER:O	1:A:942:GLN:N	2.36	0.58
1:A:1131:ASP:HB3	1:A:1188:ARG:CZ	2.32	0.58
1:B:253:VAL:HG12	1:B:254:LEU:N	2.17	0.58
1:B:291:ALA:HA	1:B:294:SER:CB	2.28	0.58
1:B:375:SER:O	1:B:376:LYS:HD2	2.00	0.58
1:B:465:ILE:O	1:B:465:ILE:HG22	2.03	0.58
1:B:742:GLU:O	1:B:746:GLN:HG2	2.02	0.58
1:A:765:THR:O	1:A:769:GLN:NE2	2.31	0.58
1:A:789:PHE:HD2	1:A:789:PHE:O	1.87	0.58
1:A:912:PHE:O	1:A:914:THR:N	2.36	0.58
1:A:993:ASP:N	1:A:996:LYS:HZ1	2.01	0.58
1:A:1192:ILE:O	1:A:1193:LEU:HD23	2.02	0.58
1:A:1241:VAL:HB	1:A:1249:GLU:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:36:LEU:HG	1:B:37:THR:H	1.68	0.58
1:B:211:THR:HA	1:B:214:ILE:CD1	2.32	0.58
1:B:594:ILE:HD12	1:B:594:ILE:N	2.18	0.58
1:B:724:PHE:CD1	1:B:754:LEU:HD21	2.39	0.58
1:B:795:GLN:CD	1:B:1012:PRO:HG3	2.29	0.58
1:B:869:VAL:HG12	1:B:870:VAL:N	2.17	0.58
1:A:103:LEU:HD22	1:A:960:VAL:HG22	1.84	0.58
1:A:512:LEU:CD1	1:A:513:PRO:HD2	2.31	0.58
1:A:975:SER:O	1:A:979:PHE:CD1	2.55	0.58
1:A:1203:ASP:C	1:A:1207:GLU:OE1	2.47	0.58
1:B:283:LEU:HA	1:B:286:LYS:HB2	1.84	0.58
1:B:693:PHE:HD2	1:B:694:TRP:H	1.47	0.58
1:B:828:ARG:O	1:B:831:VAL:HB	2.04	0.58
1:B:837:ALA:HB1	1:B:982:MET:CE	2.33	0.58
1:B:1039:ASN:HB2	1:B:1047:PRO:CB	2.33	0.58
1:B:1153:PHE:CA	1:B:1157:LEU:HD23	2.27	0.58
1:A:454:ILE:HG23	1:A:455:ARG:HG3	1.86	0.58
1:A:697:LEU:HA	1:A:700:ASN:HB2	1.84	0.58
1:A:1064:LEU:HB3	1:A:1226:ILE:HB	1.86	0.58
1:B:318:ILE:O	1:B:318:ILE:CD1	2.46	0.58
1:B:462:LEU:HG	1:B:466:ILE:HD12	1.84	0.58
1:B:527:LEU:HD23	1:B:527:LEU:H	1.68	0.58
1:B:959:LEU:O	1:B:964:LEU:HB3	2.04	0.58
1:B:1062:LEU:HD13	1:B:1063:ALA:N	2.19	0.58
1:B:1144:ALA:HB2	1:B:1187:VAL:CG2	2.22	0.58
1:B:1185:ALA:O	1:B:1188:ARG:N	2.36	0.58
1:A:110:TYR:CA	1:A:113:TYR:CD2	2.79	0.58
1:A:155:GLU:OE1	1:A:155:GLU:CA	2.52	0.58
1:A:174:ASP:O	1:A:175:VAL:C	2.46	0.58
1:A:255:ALA:C	1:A:257:ILE:H	2.10	0.58
1:A:604:GLU:CD	1:A:617:ILE:H	2.12	0.58
1:A:1048:VAL:HG23	1:A:1049:LEU:CD2	2.27	0.58
1:B:282:ARG:HD3	1:B:286:LYS:HZ3	1.68	0.58
1:B:768:LEU:CG	1:B:769:GLN:N	2.67	0.58
1:A:424:ASN:HB2	1:A:598:ASP:OD1	2.03	0.58
1:A:756:LEU:HD12	1:A:756:LEU:C	2.28	0.58
1:A:773:PHE:HB2	1:A:829:LEU:HD13	1.86	0.58
1:A:790:LYS:HB2	1:A:794:ARG:NH2	2.18	0.58
1:A:911:LYS:O	1:A:915:MET:HG3	2.04	0.58
1:A:1022:LEU:HG	1:A:1104:TRP:NE1	2.19	0.58
1:B:296:GLY:HA3	1:B:766:PHE:HE2	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:370:SER:O	1:B:372:ASP:N	2.36	0.58
1:B:454:ILE:HG23	1:B:455:ARG:HG3	1.85	0.58
1:B:478:THR:HG21	1:B:482:GLU:CB	2.34	0.58
1:B:768:LEU:HG	1:B:769:GLN:N	2.17	0.58
1:B:777:GLY:HA2	1:B:822:LYS:HG3	1.85	0.58
1:B:791:SER:N	1:B:794:ARG:HH21	2.02	0.58
1:B:845:ILE:HA	1:B:848:ILE:HG23	1.86	0.58
1:B:1054:LEU:N	1:B:1054:LEU:HD22	2.18	0.58
1:A:209:LYS:CA	1:A:212:LEU:HB3	2.33	0.58
1:A:720:LEU:HD21	1:A:762:SER:HB2	1.86	0.58
1:A:849:TYR:OH	1:A:972:LEU:O	2.15	0.58
1:A:1005:ILE:HA	1:A:1008:ILE:CG2	2.33	0.58
1:A:1149:ASN:O	1:A:1179:ARG:HD3	2.04	0.58
1:B:54:THR:O	1:B:58:ILE:HD13	2.03	0.58
1:B:210:LEU:HD13	1:B:210:LEU:C	2.29	0.58
1:B:519:LEU:CD2	1:B:526:GLN:HE22	2.17	0.58
1:B:789:PHE:HD2	1:B:789:PHE:C	2.11	0.58
1:B:807:THR:O	1:B:811:THR:HG23	2.04	0.58
1:A:133:CYS:HB2	1:A:931:ALA:HB1	1.86	0.58
1:A:210:LEU:HD11	1:A:327:VAL:HG12	1.85	0.58
1:A:282:ARG:HH11	1:A:282:ARG:N	2.01	0.58
1:A:515:GLN:O	1:A:518:THR:OG1	2.22	0.58
1:A:976:ALA:O	1:A:979:PHE:HB2	2.04	0.58
1:A:1117:ILE:CD1	1:A:1118:LEU:H	2.17	0.58
1:A:1183:ALA:O	1:A:1185:ALA:N	2.37	0.58
1:B:289:ILE:HG22	1:B:290:THR:N	2.18	0.58
1:B:711:ILE:O	1:B:711:ILE:HG12	2.01	0.58
1:B:716:ILE:C	1:B:716:ILE:HD12	2.28	0.58
1:B:982:MET:HG2	1:B:983:ALA:H	1.66	0.58
1:B:1097:ILE:CD1	1:B:1100:LEU:HB2	2.31	0.58
1:A:394:HIS:HA	1:A:406:LEU:O	2.03	0.57
1:B:314:THR:HG22	1:B:315:SER:N	2.18	0.57
1:B:367:ASN:C	1:B:369:PRO:HD3	2.29	0.57
1:B:808:GLY:O	1:B:809:ALA:C	2.47	0.57
1:B:928:MET:O	1:B:931:ALA:HB3	2.04	0.57
1:B:1148:ALA:O	1:B:1149:ASN:HB2	2.03	0.57
1:A:37:THR:O	1:A:38:MET:C	2.45	0.57
1:A:133:CYS:HB2	1:A:931:ALA:CB	2.35	0.57
1:A:384:ILE:HG22	1:A:385:GLN:N	2.11	0.57
1:A:839:LEU:O	1:A:840:GLY:C	2.46	0.57
1:A:851:TRP:O	1:A:852:GLN:CG	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1023:LYS:H	1:A:1023:LYS:HD2	1.69	0.57
1:B:362:PHE:C	1:B:365:ILE:H	2.12	0.57
1:B:720:LEU:HD13	1:B:761:ILE:CG2	2.30	0.57
1:B:976:ALA:O	1:B:979:PHE:HB2	2.04	0.57
1:B:1033:PHE:CD1	1:B:1036:VAL:CG2	2.86	0.57
1:A:218:SER:HB2	1:A:219:PRO:HD3	1.86	0.57
1:A:252:GLU:OE1	1:A:252:GLU:N	2.37	0.57
1:A:342:GLY:O	1:A:346:PRO:CD	2.52	0.57
1:A:773:PHE:CD1	1:A:773:PHE:C	2.82	0.57
1:A:936:ILE:O	1:A:939:SER:OG	2.18	0.57
1:A:1189:GLN:N	1:A:1190:PRO:HD3	2.19	0.57
1:A:1234:GLN:HG2	1:A:1253:HIS:NE2	2.19	0.57
1:B:175:VAL:O	1:B:178:ILE:HG12	2.05	0.57
1:A:35:VAL:CG2	1:A:36:LEU:N	2.40	0.57
1:A:912:PHE:C	1:A:914:THR:H	2.12	0.57
1:A:960:VAL:HG12	1:A:966:THR:OG1	2.04	0.57
1:B:530:GLY:HA2	1:B:557:LEU:HD11	1.86	0.57
1:B:735:PHE:CD1	1:B:735:PHE:O	2.57	0.57
1:B:849:TYR:OH	1:B:972:LEU:O	2.13	0.57
1:B:910:GLN:O	1:B:912:PHE:N	2.37	0.57
1:B:993:ASP:O	1:B:995:ALA:N	2.37	0.57
1:B:1066:GLY:H	1:B:1072:LYS:HE2	1.69	0.57
1:A:278:GLU:HA	1:A:282:ARG:CZ	2.35	0.57
1:A:388:LEU:HB2	1:A:413:VAL:CG1	2.34	0.57
1:A:702:THR:C	1:A:704:TRP:H	2.12	0.57
1:A:949:TYR:O	1:A:952:ALA:HB3	2.03	0.57
1:A:1150:ILE:HB	1:A:1179:ARG:HB3	1.86	0.57
1:B:35:VAL:HG21	1:B:355:ARG:HH21	1.70	0.57
1:B:207:GLY:HA3	1:B:211:THR:HB	1.87	0.57
1:B:881:LYS:O	1:B:884:LYS:HB2	2.03	0.57
1:A:110:TYR:C	1:A:113:TYR:HD2	2.10	0.57
1:A:749:ASN:OD1	1:A:750:LEU:N	2.38	0.57
1:A:801:ASP:HB3	1:A:1083:TYR:CZ	2.40	0.57
1:A:906:LEU:N	1:A:908:ARG:NH1	2.52	0.57
1:B:192:ALA:O	1:B:195:THR:HG23	2.04	0.57
1:B:428:GLY:O	1:B:431:THR:HB	2.04	0.57
1:B:498:LYS:NZ	1:B:502:GLU:OE2	2.38	0.57
1:B:573:ARG:C	1:B:575:GLY:H	2.12	0.57
1:B:853:LEU:HD21	1:B:956:GLY:HA2	1.87	0.57
1:B:921:GLN:HG2	1:B:922:ILE:N	2.19	0.57
1:B:1096:GLU:O	1:B:1099:GLN:N	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:851:TRP:N	1:A:851:TRP:CD1	2.72	0.57
1:A:982:MET:CG	1:A:983:ALA:N	2.68	0.57
1:B:218:SER:CB	1:B:219:PRO:CD	2.82	0.57
1:B:438:ARG:O	1:B:438:ARG:HD3	2.03	0.57
1:B:973:VAL:O	1:B:977:ILE:HG13	2.04	0.57
1:B:987:VAL:HG13	1:B:988:SER:N	2.20	0.57
1:B:1064:LEU:HD13	1:B:1065:VAL:N	2.20	0.57
1:B:1191:HIS:O	1:B:1221:ARG:HB2	2.04	0.57
1:A:33:VAL:O	1:A:36:LEU:HG	2.05	0.57
1:A:69:LEU:HA	1:A:329:THR:HG21	1.86	0.57
1:A:550:LEU:HD12	1:A:550:LEU:N	2.19	0.57
1:A:1062:LEU:C	1:A:1062:LEU:CD1	2.77	0.57
1:A:1164:ARG:C	1:A:1166:GLY:N	2.59	0.57
1:A:1258:ALA:HA	1:A:1260:LYS:NZ	2.20	0.57
1:B:103:LEU:O	1:B:107:MET:HB2	2.04	0.57
1:B:217:ILE:HD11	1:B:331:PHE:CE2	2.33	0.57
1:B:543:ARG:CZ	1:B:905:SER:HB3	2.33	0.57
1:B:906:LEU:N	1:B:908:ARG:NH1	2.52	0.57
1:A:125:ALA:O	1:A:129:VAL:HG23	2.04	0.57
1:A:131:PHE:CE2	1:A:186:ILE:HG22	2.39	0.57
1:A:198:GLY:O	1:A:200:PHE:N	2.38	0.57
1:A:359:TYR:CE1	1:A:360:GLU:OE1	2.58	0.57
1:A:1067:SER:OG	1:A:1068:SER:N	2.38	0.57
1:A:1083:TYR:CD1	1:A:1083:TYR:N	2.71	0.57
1:A:1091:PHE:CE1	1:A:1096:GLU:CG	2.82	0.57
1:A:1124:ALA:HA	1:A:1127:ILE:HD12	1.86	0.57
1:A:1153:PHE:CA	1:A:1157:LEU:HD23	2.30	0.57
1:A:1166:GLY:HA3	1:A:1171:GLN:OE1	2.04	0.57
1:B:768:LEU:C	1:B:768:LEU:HD12	2.30	0.57
1:B:946:TYR:CG	1:B:947:PHE:N	2.72	0.57
1:B:1166:GLY:HA3	1:B:1171:GLN:OE1	2.04	0.57
1:A:268:LYS:HD3	1:A:268:LYS:C	2.30	0.57
1:A:401:LYS:H	1:A:401:LYS:HD2	1.70	0.57
1:A:536:ALA:O	1:A:539:ARG:N	2.37	0.57
1:A:548:LEU:CD2	1:A:550:LEU:CD1	2.81	0.57
1:A:761:ILE:O	1:A:764:ILE:HB	2.05	0.57
1:B:214:ILE:O	1:B:215:LEU:C	2.48	0.57
1:B:239:GLU:OE1	1:B:239:GLU:HA	2.04	0.57
1:B:503:ALA:O	1:B:504:ASN:C	2.47	0.57
1:B:604:GLU:OE1	1:B:616:GLY:HA3	2.05	0.57
1:B:762:SER:HA	1:B:765:THR:HG22	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:798:SER:HA	1:B:801:ASP:CB	2.31	0.57
1:B:902:THR:OG1	1:B:908:ARG:NH2	2.38	0.57
1:A:928:MET:O	1:A:931:ALA:HB3	2.05	0.56
1:B:72:GLY:HA2	1:B:326:GLN:NE2	2.20	0.56
1:B:467:GLY:CA	1:B:545:PRO:HG3	2.35	0.56
1:B:762:SER:HA	1:B:765:THR:CG2	2.35	0.56
1:B:1083:TYR:N	1:B:1083:TYR:CD1	2.73	0.56
1:B:1205:GLU:O	1:B:1209:VAL:HG12	2.05	0.56
1:A:545:PRO:O	1:A:546:LYS:HD3	2.06	0.56
1:A:573:ARG:O	1:A:576:ARG:O	2.23	0.56
1:A:699:LEU:O	1:A:702:THR:HB	2.04	0.56
1:A:794:ARG:C	1:A:795:GLN:O	2.44	0.56
1:B:881:LYS:HB2	1:B:881:LYS:NZ	2.19	0.56
1:B:1131:ASP:HB3	1:B:1188:ARG:CZ	2.35	0.56
1:A:71:PHE:CA	1:A:74:MET:HE3	2.26	0.56
1:A:317:VAL:HG12	1:A:317:VAL:O	2.03	0.56
1:A:366:ASP:O	1:A:367:ASN:O	2.22	0.56
1:A:762:SER:HA	1:A:765:THR:CG2	2.35	0.56
1:A:902:THR:OG1	1:A:908:ARG:NH2	2.38	0.56
1:A:993:ASP:CA	1:A:996:LYS:HZ1	2.19	0.56
1:A:1057:LYS:HD2	1:A:1057:LYS:N	2.20	0.56
1:B:114:TYR:HB3	1:B:950:ALA:CB	2.35	0.56
1:B:365:ILE:O	1:B:366:ASP:C	2.48	0.56
1:B:711:ILE:HG12	1:B:715:ILE:HD11	1.87	0.56
1:B:721:GLN:CG	1:B:982:MET:HE3	2.32	0.56
1:B:773:PHE:HB2	1:B:829:LEU:CD1	2.34	0.56
1:B:789:PHE:C	1:B:789:PHE:CD2	2.83	0.56
1:B:1024:PRO:O	1:B:1027:LEU:HD22	2.05	0.56
1:B:1037:VAL:HA	1:B:1049:LEU:O	2.05	0.56
1:A:218:SER:CB	1:A:219:PRO:CD	2.83	0.56
1:A:507:ASP:OD1	1:A:508:PHE:N	2.39	0.56
1:A:1048:VAL:CG2	1:A:1049:LEU:HD22	2.29	0.56
1:B:734:VAL:HG11	1:B:750:LEU:HD11	1.86	0.56
1:B:1004:ILE:HD13	1:B:1004:ILE:O	2.06	0.56
1:A:282:ARG:HD3	1:A:286:LYS:NZ	2.21	0.56
1:A:498:LYS:HZ1	1:A:502:GLU:CG	2.19	0.56
1:A:594:ILE:HD12	1:A:594:ILE:N	2.20	0.56
1:A:821:VAL:O	1:A:822:LYS:C	2.47	0.56
1:A:1099:GLN:O	1:A:1099:GLN:HG2	2.04	0.56
1:A:1154:ILE:HG12	1:A:1161:TYR:CE2	2.41	0.56
1:A:1193:LEU:HB2	1:A:1223:CYS:HB3	1.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:725:SER:HB3	1:B:975:SER:HB3	1.85	0.56
1:B:1173:SER:H	1:B:1176:GLN:NE2	2.03	0.56
1:B:1226:ILE:C	1:B:1226:ILE:HD12	2.30	0.56
1:B:1242:ILE:HD12	1:B:1246:LYS:O	2.04	0.56
1:A:188:MET:HB2	1:A:347:ASN:CB	2.34	0.56
1:A:403:VAL:O	1:A:405:ILE:N	2.39	0.56
1:A:515:GLN:HG2	1:B:138:ARG:NH2	2.21	0.56
1:A:768:LEU:HG	1:A:769:GLN:N	2.20	0.56
1:A:853:LEU:O	1:A:856:LEU:CA	2.53	0.56
1:A:881:LYS:O	1:A:884:LYS:HB2	2.06	0.56
1:A:1263:TYR:O	1:A:1267:VAL:HG23	2.05	0.56
1:B:49:TYR:HE2	1:B:130:SER:C	2.13	0.56
1:B:463:ARG:NH1	1:B:903:VAL:HG22	2.21	0.56
1:B:508:PHE:HE2	1:B:534:ARG:HD2	1.70	0.56
1:B:543:ARG:HH21	1:B:907:THR:CG2	2.09	0.56
1:B:721:GLN:O	1:B:722:PRO:C	2.44	0.56
1:B:889:SER:O	1:B:892:ILE:HG12	2.05	0.56
1:A:44:TRP:CD1	1:A:45:LEU:HD13	2.41	0.56
1:A:484:ILE:HG21	1:A:496:ILE:HG13	1.87	0.56
1:A:826:GLY:CA	1:A:829:LEU:HD12	2.16	0.56
1:A:1239:ILE:N	1:A:1239:ILE:CD1	2.63	0.56
1:B:318:ILE:HD12	1:B:735:PHE:CE1	2.40	0.56
1:B:711:ILE:HD11	1:B:832:ILE:HD13	1.88	0.56
1:B:1044:PRO:C	1:B:1046:ILE:H	2.13	0.56
1:B:1189:GLN:N	1:B:1190:PRO:HD3	2.20	0.56
1:B:1207:GLU:O	1:B:1208:LYS:C	2.44	0.56
1:B:1262:ILE:HD12	1:B:1262:ILE:N	2.17	0.56
1:A:67:MET:HE2	1:A:117:ILE:HG21	1.88	0.56
1:A:158:TRP:HZ2	1:A:900:PHE:HA	1.70	0.56
1:A:163:ASP:C	1:A:165:GLY:N	2.63	0.56
1:A:310:PHE:HZ	1:A:332:PHE:HA	1.70	0.56
1:A:688:VAL:CB	1:A:1006:ARG:NH1	2.69	0.56
1:A:797:VAL:C	1:A:799:TRP:H	2.12	0.56
1:A:816:ASN:O	1:A:819:ALA:HB3	2.05	0.56
1:A:901:ARG:H	1:A:901:ARG:CD	2.03	0.56
1:A:902:THR:C	1:A:904:VAL:N	2.62	0.56
1:A:908:ARG:HE	1:A:908:ARG:N	2.04	0.56
1:B:215:LEU:C	1:B:219:PRO:HD2	2.31	0.56
1:B:255:ALA:C	1:B:257:ILE:H	2.14	0.56
1:B:545:PRO:O	1:B:546:LYS:HD3	2.06	0.56
1:B:701:SER:HA	1:B:704:TRP:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:790:LYS:CB	1:B:794:ARG:NH2	2.68	0.56
1:A:185:LYS:HZ2	1:A:186:ILE:CA	2.18	0.56
1:A:304:ALA:O	1:A:307:ALA:HB3	2.06	0.56
1:A:332:PHE:O	1:A:335:LEU:HB3	2.06	0.56
1:A:765:THR:HG23	1:A:766:PHE:CD1	2.38	0.56
1:A:908:ARG:O	1:A:909:GLU:C	2.49	0.56
1:A:1017:TYR:O	1:A:1101:ASN:ND2	2.38	0.56
1:B:58:ILE:HG13	1:B:193:MET:HG3	1.87	0.56
1:B:61:GLY:O	1:B:65:PRO:CD	2.47	0.56
1:B:131:PHE:O	1:B:132:TRP:C	2.47	0.56
1:B:584:ARG:NE	1:B:584:ARG:HA	2.20	0.56
1:B:740:PRO:HG2	1:B:741:PRO:CD	2.36	0.56
1:B:773:PHE:C	1:B:773:PHE:CD1	2.83	0.56
1:B:813:ARG:NH2	1:B:1003:HIS:CE1	2.74	0.56
1:B:819:ALA:O	1:B:822:LYS:HB3	2.05	0.56
1:B:1106:ARG:O	1:B:1109:LEU:HD22	2.06	0.56
1:B:1218:ARG:C	1:B:1220:GLY:N	2.60	0.56
1:A:71:PHE:O	1:A:74:MET:HG2	2.06	0.56
1:A:90:ASN:CB	1:A:91:MET:HE3	2.36	0.56
1:A:232:LEU:HG	1:A:295:MET:SD	2.46	0.56
1:A:296:GLY:HA3	1:A:766:PHE:HE2	1.66	0.56
1:A:398:PRO:HD3	1:A:440:TYR:CE2	2.39	0.56
1:A:424:ASN:C	1:A:426:GLY:H	2.15	0.56
1:A:957:ALA:O	1:A:958:TYR:C	2.49	0.56
1:A:1032:GLN:NE2	1:A:1055:GLU:HG3	2.21	0.56
1:B:38:MET:O	1:B:39:PHE:C	2.45	0.56
1:B:132:TRP:HD1	1:B:133:CYS:CA	2.18	0.56
1:B:186:ILE:O	1:B:187:GLY:C	2.48	0.56
1:B:362:PHE:CA	1:B:365:ILE:HD12	2.36	0.56
1:B:504:ASN:CG	1:B:504:ASN:O	2.48	0.56
1:B:720:LEU:HD21	1:B:762:SER:HB2	1.88	0.56
1:B:779:ILE:HD12	1:B:783:ARG:HH21	1.71	0.56
1:B:821:VAL:HG12	1:B:1001:ALA:HA	1.87	0.56
1:B:838:ASN:HD22	1:B:839:LEU:N	2.03	0.56
1:B:1197:GLU:O	1:B:1198:ALA:C	2.48	0.56
1:A:178:ILE:HD13	1:A:178:ILE:N	2.21	0.55
1:A:315:SER:C	1:A:318:ILE:HG22	2.29	0.55
1:A:734:VAL:O	1:A:734:VAL:HG22	2.04	0.55
1:A:857:LEU:O	1:A:858:LEU:C	2.49	0.55
1:A:909:GLU:O	1:A:912:PHE:HB2	2.06	0.55
1:A:1048:VAL:HG21	1:A:1074:THR:HG21	1.86	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1116:PRO:O	1:A:1117:ILE:CB	2.55	0.55
1:B:211:THR:O	1:B:215:LEU:HG	2.06	0.55
1:B:385:GLN:NE2	1:B:386:GLY:O	2.39	0.55
1:B:816:ASN:CG	1:B:817:ASP:N	2.64	0.55
1:B:845:ILE:O	1:B:849:TYR:CD2	2.58	0.55
1:B:899:ASN:HA	1:B:901:ARG:NH1	2.20	0.55
1:B:1173:SER:HB3	1:B:1176:GLN:CD	2.31	0.55
1:B:1176:GLN:O	1:B:1180:ILE:HG13	2.05	0.55
1:B:1195:LEU:HB2	1:B:1225:VAL:HA	1.87	0.55
1:A:118:GLY:HA3	1:A:946:TYR:CG	2.41	0.55
1:A:207:GLY:CA	1:A:210:LEU:HB3	2.35	0.55
1:A:218:SER:CB	1:A:219:PRO:HD3	2.36	0.55
1:A:288:ALA:O	1:A:291:ALA:HB3	2.07	0.55
1:A:362:PHE:HA	1:A:365:ILE:CG1	2.36	0.55
1:A:404:GLN:O	1:A:405:ILE:C	2.48	0.55
1:A:551:ASP:C	1:A:553:ALA:H	2.13	0.55
1:A:1064:LEU:HD13	1:A:1065:VAL:N	2.21	0.55
1:A:1230:LEU:O	1:A:1233:ILE:HG22	2.07	0.55
1:B:206:ARG:O	1:B:330:VAL:HG11	2.06	0.55
1:B:283:LEU:N	1:B:778:GLU:OE1	2.39	0.55
1:B:289:ILE:O	1:B:292:ASN:N	2.38	0.55
1:B:397:TYR:HE1	1:B:427:CYS:SG	2.29	0.55
1:B:538:ALA:O	1:B:542:VAL:HG23	2.06	0.55
1:B:792:MET:HE1	1:B:810:LEU:HB3	1.88	0.55
1:B:851:TRP:CD1	1:B:851:TRP:N	2.72	0.55
1:B:1021:GLY:O	1:B:1026:MET:CE	2.54	0.55
1:A:185:LYS:NZ	1:A:186:ILE:N	2.49	0.55
1:A:756:LEU:O	1:A:760:ILE:HB	2.05	0.55
1:A:1156:SER:O	1:A:1157:LEU:C	2.49	0.55
1:B:114:TYR:HB3	1:B:950:ALA:HB2	1.88	0.55
1:B:282:ARG:O	1:B:286:LYS:CD	2.47	0.55
1:B:393:ILE:HA	1:B:444:ASP:O	2.06	0.55
1:B:593:VAL:C	1:B:594:ILE:HD12	2.31	0.55
1:B:797:VAL:C	1:B:799:TRP:N	2.64	0.55
1:B:799:TRP:HD1	1:B:800:PHE:CE1	2.24	0.55
1:B:1137:SER:HB3	1:B:1140:GLU:HB2	1.89	0.55
1:B:1154:ILE:CG1	1:B:1161:TYR:CE2	2.89	0.55
1:B:1214:LEU:HD23	1:B:1214:LEU:C	2.30	0.55
1:B:1243:GLN:O	1:B:1244:ASN:C	2.49	0.55
1:A:238:LYS:NZ	1:A:242:ALA:HB2	2.21	0.55
1:A:358:ALA:O	1:A:362:PHE:CB	2.54	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:762:SER:HA	1:A:765:THR:HG22	1.88	0.55
1:A:857:LEU:HD21	1:A:861:VAL:HG21	1.81	0.55
1:A:857:LEU:C	1:A:859:ALA:N	2.62	0.55
1:A:908:ARG:O	1:A:912:PHE:N	2.36	0.55
1:A:1044:PRO:C	1:A:1046:ILE:H	2.14	0.55
1:B:37:THR:O	1:B:40:ARG:N	2.39	0.55
1:B:38:MET:SD	1:B:362:PHE:HE1	2.25	0.55
1:B:104:GLU:O	1:B:107:MET:HB3	2.07	0.55
1:B:286:LYS:HE2	1:B:778:GLU:CG	2.36	0.55
1:B:959:LEU:HB3	1:B:964:LEU:HD12	1.89	0.55
1:B:1032:GLN:HB2	1:B:1091:PHE:HB2	1.89	0.55
1:B:1032:GLN:O	1:B:1090:VAL:HA	2.06	0.55
1:B:1154:ILE:HG21	1:B:1161:TYR:CZ	2.41	0.55
1:B:1156:SER:O	1:B:1157:LEU:C	2.50	0.55
1:B:1183:ALA:O	1:B:1185:ALA:N	2.39	0.55
1:A:132:TRP:HD1	1:A:133:CYS:CA	2.18	0.55
1:A:138:ARG:NH2	1:B:515:GLN:HG2	2.21	0.55
1:A:697:LEU:HD12	1:A:698:LYS:CA	2.35	0.55
1:A:1046:ILE:CG2	1:A:1047:PRO:N	2.70	0.55
1:A:1153:PHE:CE2	1:A:1172:LEU:CD2	2.90	0.55
1:B:165:GLY:C	1:B:167:LEU:N	2.64	0.55
1:B:254:LEU:N	1:B:254:LEU:CD2	2.62	0.55
1:B:397:TYR:CB	1:B:398:PRO:HD2	2.35	0.55
1:B:459:VAL:C	1:B:461:TYR:N	2.64	0.55
1:B:708:VAL:HA	1:B:711:ILE:CG2	2.37	0.55
1:B:747:ASN:O	1:B:748:SER:C	2.50	0.55
1:B:827:SER:OG	1:B:994:TYR:HD2	1.88	0.55
1:A:531:GLN:O	1:A:532:LYS:C	2.49	0.55
1:A:813:ARG:HA	1:A:817:ASP:OD2	2.05	0.55
1:A:821:VAL:HG12	1:A:1001:ALA:HA	1.88	0.55
1:A:843:ILE:HG22	1:A:844:ILE:HD13	1.87	0.55
1:A:860:ILE:O	1:A:864:ILE:HG12	2.06	0.55
1:A:1065:VAL:HG13	1:A:1241:VAL:HA	1.88	0.55
1:B:251:GLU:OE2	1:B:811:THR:HB	2.06	0.55
1:B:318:ILE:HD11	1:B:325:GLY:H	1.70	0.55
1:B:328:LEU:O	1:B:329:THR:C	2.49	0.55
1:B:493:MET:HA	1:B:496:ILE:CD1	2.24	0.55
1:B:1131:ASP:OD1	1:B:1134:ARG:HB2	2.07	0.55
1:B:1233:ILE:HG13	1:B:1233:ILE:O	2.06	0.55
1:A:114:TYR:HB3	1:A:950:ALA:CB	2.37	0.55
1:A:489:GLU:H	1:A:489:GLU:CD	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:688:VAL:CG1	1:A:1006:ARG:NH1	2.68	0.55
1:A:1092:LEU:HD11	1:A:1104:TRP:CZ3	2.42	0.55
1:B:100:PHE:HB2	1:B:961:THR:HG23	1.89	0.55
1:B:175:VAL:CG1	1:B:176:SER:N	2.70	0.55
1:B:498:LYS:HZ2	1:B:502:GLU:CG	2.19	0.55
1:B:834:GLN:HE22	1:B:983:ALA:HB1	1.72	0.55
1:B:855:LEU:HG	1:B:856:LEU:N	2.21	0.55
1:B:1139:GLU:H	1:B:1139:GLU:CD	2.15	0.55
1:B:1184:ARG:O	1:B:1187:VAL:HB	2.07	0.55
1:A:421:LEU:HD13	1:A:579:ILE:CD1	2.37	0.55
1:A:730:LYS:O	1:A:734:VAL:HG12	2.06	0.55
1:A:789:PHE:CD2	1:A:789:PHE:C	2.84	0.55
1:A:828:ARG:O	1:A:831:VAL:HB	2.07	0.55
1:A:867:ALA:HA	1:A:870:VAL:HG12	1.88	0.55
1:A:869:VAL:HG12	1:A:870:VAL:N	2.22	0.55
1:A:1019:THR:HB	1:A:1100:LEU:CA	2.37	0.55
1:A:1191:HIS:O	1:A:1221:ARG:HB2	2.07	0.55
1:B:688:VAL:HG23	1:B:688:VAL:O	2.06	0.55
1:B:709:VAL:HG22	1:B:710:GLY:N	2.21	0.55
1:B:958:TYR:HB3	1:B:966:THR:HG21	1.89	0.55
1:A:210:LEU:C	1:A:212:LEU:N	2.61	0.55
1:A:795:GLN:O	1:A:796:ASP:CB	2.53	0.55
1:A:838:ASN:ND2	1:A:839:LEU:N	2.55	0.55
1:B:164:VAL:O	1:B:164:VAL:CG1	2.55	0.55
1:B:238:LYS:NZ	1:B:242:ALA:HB2	2.22	0.55
1:B:315:SER:HA	1:B:318:ILE:HG22	1.89	0.55
1:B:699:LEU:O	1:B:702:THR:HB	2.07	0.55
1:B:1039:ASN:ND2	1:B:1047:PRO:HA	2.21	0.55
1:B:1195:LEU:HD13	1:B:1195:LEU:N	2.22	0.55
1:A:159:PHE:O	1:A:160:ASP:C	2.48	0.55
1:A:360:GLU:HA	1:A:363:LYS:HE2	1.89	0.55
1:A:371:ILE:C	1:A:373:SER:H	2.13	0.55
1:A:384:ILE:O	1:A:385:GLN:O	2.24	0.55
1:A:471:GLN:O	1:A:472:GLU:C	2.50	0.55
1:A:583:HIS:O	1:A:585:LEU:HD22	2.06	0.55
1:A:853:LEU:HA	1:A:856:LEU:HB2	1.88	0.55
1:A:888:GLY:O	1:A:892:ILE:HG12	2.07	0.55
1:A:962:GLN:O	1:A:963:GLN:HB2	2.07	0.55
1:A:1077:GLN:O	1:A:1080:GLU:N	2.40	0.55
1:A:1129:TYR:O	1:A:1131:ASP:N	2.33	0.55
1:A:1195:LEU:HB2	1:A:1225:VAL:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:248:ALA:C	1:B:250:ALA:H	2.14	0.55
1:B:399:SER:CB	1:B:402:GLU:OE2	2.48	0.55
1:B:405:ILE:HG22	1:B:428:GLY:HA2	1.88	0.55
1:B:701:SER:O	1:B:704:TRP:HB3	2.07	0.55
1:B:841:THR:O	1:B:845:ILE:HG12	2.07	0.55
1:B:1137:SER:HB3	1:B:1140:GLU:CB	2.38	0.55
1:B:1212:GLU:O	1:B:1215:ASP:HB3	2.08	0.55
1:B:1236:ALA:HB3	1:B:1239:ILE:CG1	2.36	0.55
1:A:44:TRP:C	1:A:46:ASP:N	2.64	0.54
1:A:118:GLY:CA	1:A:946:TYR:CD1	2.90	0.54
1:A:796:ASP:O	1:A:797:VAL:HB	2.07	0.54
1:A:892:ILE:C	1:A:916:TYR:CE2	2.85	0.54
1:A:1020:GLN:HB2	1:A:1026:MET:HE1	1.88	0.54
1:B:60:HIS:O	1:B:63:ALA:CB	2.54	0.54
1:B:297:ALA:O	1:B:301:LEU:CB	2.55	0.54
1:B:398:PRO:HD3	1:B:440:TYR:CE2	2.40	0.54
1:B:438:ARG:NE	1:B:441:ASP:OD1	2.40	0.54
1:B:743:THR:O	1:B:747:ASN:HB2	2.07	0.54
1:A:38:MET:SD	1:A:362:PHE:CZ	3.01	0.54
1:A:135:ALA:O	1:A:136:ALA:C	2.51	0.54
1:A:148:PHE:CD2	1:A:913:GLU:OE2	2.60	0.54
1:A:201:ILE:HG22	1:A:202:ILE:HG23	1.89	0.54
1:A:211:THR:HA	1:A:214:ILE:HD12	1.89	0.54
1:A:711:ILE:HG12	1:A:715:ILE:HD11	1.89	0.54
1:A:789:PHE:HD2	1:A:789:PHE:C	2.14	0.54
1:A:889:SER:O	1:A:892:ILE:CG1	2.54	0.54
1:A:908:ARG:C	1:A:911:LYS:HB3	2.32	0.54
1:A:925:ARG:HG2	1:B:514:HIS:ND1	2.22	0.54
1:B:327:VAL:HG12	1:B:331:PHE:HE1	1.72	0.54
1:B:422:VAL:HG23	1:B:422:VAL:O	2.08	0.54
1:B:1010:LYS:HD2	1:B:1010:LYS:N	2.16	0.54
1:A:382:ASP:O	1:A:384:ILE:HD12	2.07	0.54
1:A:722:PRO:HD3	1:A:982:MET:CE	2.37	0.54
1:A:859:ALA:O	1:A:863:ILE:CD1	2.54	0.54
1:A:886:LEU:HD12	1:A:887:GLU:N	2.23	0.54
1:A:1019:THR:HB	1:A:1100:LEU:C	2.32	0.54
1:A:1064:LEU:HD11	1:A:1242:ILE:CG2	2.38	0.54
1:A:1178:GLN:O	1:A:1182:ILE:HD13	2.06	0.54
1:B:496:ILE:O	1:B:500:VAL:HG22	2.07	0.54
1:B:777:GLY:CA	1:B:822:LYS:HG3	2.36	0.54
1:B:862:PRO:O	1:B:866:ILE:HG13	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:308:LEU:O	1:A:309:ALA:C	2.47	0.54
1:A:324:ILE:H	1:A:324:ILE:HD12	1.71	0.54
1:A:730:LYS:HD3	1:A:750:LEU:CD2	2.37	0.54
1:A:760:ILE:HG22	1:A:761:ILE:N	2.21	0.54
1:A:792:MET:SD	1:A:814:LEU:HD21	2.47	0.54
1:A:1032:GLN:HB2	1:A:1091:PHE:HB2	1.89	0.54
1:A:1041:PRO:O	1:A:1042:THR:HB	2.07	0.54
1:A:1092:LEU:H	1:A:1097:ILE:HG12	1.73	0.54
1:B:153:ASN:O	1:B:155:GLU:OE2	2.24	0.54
1:B:267:LYS:O	1:B:790:LYS:NZ	2.40	0.54
1:B:414:LYS:HD2	1:B:414:LYS:N	2.21	0.54
1:B:690:PRO:CG	1:B:1006:ARG:NH1	2.70	0.54
1:B:722:PRO:HD3	1:B:982:MET:CE	2.35	0.54
1:B:942:GLN:OE1	1:B:942:GLN:N	2.40	0.54
1:A:362:PHE:HA	1:A:365:ILE:CD1	2.38	0.54
1:A:471:GLN:CG	1:A:472:GLU:H	2.03	0.54
1:A:705:PRO:HG2	1:A:706:TYR:H	1.72	0.54
1:A:857:LEU:CD2	1:A:861:VAL:CG2	2.67	0.54
1:A:1027:LEU:O	1:A:1191:HIS:CD2	2.60	0.54
1:A:1063:ALA:CB	1:A:1239:ILE:HG13	2.38	0.54
1:A:1190:PRO:O	1:A:1191:HIS:ND1	2.40	0.54
1:A:1197:GLU:O	1:A:1200:SER:HB2	2.08	0.54
1:B:333:SER:O	1:B:336:ILE:HB	2.08	0.54
1:B:531:GLN:O	1:B:532:LYS:C	2.51	0.54
1:B:693:PHE:N	1:B:693:PHE:CD2	2.73	0.54
1:B:755:PHE:O	1:B:756:LEU:C	2.51	0.54
1:B:837:ALA:HB1	1:B:982:MET:HE2	1.90	0.54
1:B:1035:GLY:O	1:B:1036:VAL:C	2.51	0.54
1:A:221:LEU:CD1	1:A:306:TYR:HA	2.37	0.54
1:A:267:LYS:O	1:A:790:LYS:HE2	2.08	0.54
1:A:282:ARG:HB3	1:A:778:GLU:HG2	1.90	0.54
1:A:318:ILE:O	1:A:318:ILE:CD1	2.53	0.54
1:A:359:TYR:O	1:A:362:PHE:HB3	2.07	0.54
1:A:370:SER:C	1:A:372:ASP:H	2.16	0.54
1:A:504:ASN:O	1:A:504:ASN:CG	2.51	0.54
1:A:718:GLY:O	1:A:722:PRO:CD	2.51	0.54
1:A:743:THR:O	1:A:747:ASN:HB2	2.07	0.54
1:A:843:ILE:HA	1:A:846:SER:OG	2.08	0.54
1:A:1173:SER:N	1:A:1176:GLN:NE2	2.56	0.54
1:B:57:ALA:O	1:B:60:HIS:HB3	2.07	0.54
1:B:158:TRP:O	1:B:158:TRP:HD1	1.91	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:212:LEU:HD13	1:B:215:LEU:HD12	1.89	0.54
1:B:551:ASP:C	1:B:553:ALA:H	2.15	0.54
1:B:797:VAL:HG21	1:B:1013:GLU:HG2	1.88	0.54
1:B:884:LYS:O	1:B:887:GLU:HG2	2.08	0.54
1:B:1076:VAL:HG13	1:B:1194:LEU:HB3	1.90	0.54
1:B:1231:SER:HA	1:B:1270:GLN:HE22	1.72	0.54
1:A:76:ASP:OD2	1:A:326:GLN:HG2	2.07	0.54
1:A:115:THR:O	1:A:116:GLY:C	2.50	0.54
1:A:699:LEU:O	1:A:700:ASN:C	2.50	0.54
1:A:747:ASN:O	1:A:749:ASN:N	2.41	0.54
1:B:153:ASN:O	1:B:155:GLU:CD	2.50	0.54
1:A:734:VAL:HG11	1:A:750:LEU:CD1	2.38	0.54
1:B:135:ALA:O	1:B:136:ALA:C	2.50	0.54
1:B:385:GLN:NE2	1:B:415:SER:HB2	2.23	0.54
1:B:967:PHE:CD1	1:B:968:GLU:N	2.75	0.54
1:A:210:LEU:HA	1:A:213:VAL:CG2	2.30	0.54
1:A:362:PHE:C	1:A:365:ILE:H	2.16	0.54
1:A:899:ASN:HA	1:A:901:ARG:NH1	2.23	0.54
1:A:899:ASN:OD1	1:A:901:ARG:NH2	2.40	0.54
1:A:1020:GLN:CD	1:A:1022:LEU:H	2.16	0.54
1:A:1164:ARG:C	1:A:1166:GLY:H	2.15	0.54
1:A:1193:LEU:HD13	1:A:1195:LEU:HD11	1.88	0.54
1:A:1218:ARG:HG2	1:A:1219:GLU:N	2.22	0.54
1:B:129:VAL:HB	1:B:935:GLY:HA2	1.89	0.54
1:B:140:ILE:HG13	1:B:179:ASN:ND2	2.21	0.54
1:B:188:MET:O	1:B:191:GLN:N	2.40	0.54
1:B:281:LYS:O	1:B:285:ILE:HG22	2.07	0.54
1:B:397:TYR:CE1	1:B:427:CYS:SG	3.01	0.54
1:B:711:ILE:O	1:B:714:ALA:HB3	2.06	0.54
1:B:896:ALA:CB	1:B:912:PHE:CE1	2.90	0.54
1:B:1180:ILE:O	1:B:1183:ALA:HB3	2.07	0.54
1:A:140:ILE:O	1:A:141:HIS:C	2.50	0.54
1:A:918:GLN:NE2	1:B:482:GLU:CD	2.66	0.54
1:A:1055:GLU:HG2	1:A:1056:VAL:H	1.73	0.54
1:A:1127:ILE:C	1:A:1129:TYR:H	2.16	0.54
1:B:401:LYS:H	1:B:401:LYS:HD2	1.73	0.54
1:B:707:PHE:CZ	1:B:775:LYS:NZ	2.76	0.54
1:A:380:LYS:CE	1:A:461:TYR:CD2	2.90	0.53
1:A:731:VAL:HG22	1:A:750:LEU:CB	2.39	0.53
1:A:908:ARG:NE	1:A:908:ARG:N	2.56	0.53
1:A:1046:ILE:HG23	1:A:1047:PRO:CD	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1057:LYS:HB2	1:A:1060:GLN:NE2	2.23	0.53
1:A:1090:VAL:CG2	1:A:1091:PHE:N	2.71	0.53
1:B:265:GLY:O	1:B:267:LYS:CG	2.56	0.53
1:B:362:PHE:HA	1:B:365:ILE:CG1	2.38	0.53
1:B:722:PRO:HG2	1:B:841:THR:HB	1.89	0.53
1:B:941:THR:O	1:B:944:MET:HB2	2.08	0.53
1:B:968:GLU:CD	1:B:969:ASN:N	2.66	0.53
1:B:1091:PHE:CG	1:B:1094:GLY:O	2.61	0.53
1:B:1178:GLN:O	1:B:1182:ILE:HD13	2.07	0.53
1:A:282:ARG:O	1:A:286:LYS:CD	2.50	0.53
1:A:848:ILE:O	1:A:848:ILE:HD12	2.08	0.53
1:A:1242:ILE:HD12	1:A:1246:LYS:C	2.33	0.53
1:B:261:ILE:CG2	1:B:1106:ARG:NH1	2.70	0.53
1:B:1116:PRO:O	1:B:1117:ILE:CB	2.56	0.53
1:A:153:ASN:C	1:A:155:GLU:H	2.14	0.53
1:A:158:TRP:CZ2	1:A:900:PHE:CB	2.91	0.53
1:A:215:LEU:O	1:A:219:PRO:HB2	2.08	0.53
1:A:286:LYS:HE2	1:A:778:GLU:HG2	1.91	0.53
1:A:498:LYS:NZ	1:A:502:GLU:CG	2.71	0.53
1:A:721:GLN:HB3	1:A:722:PRO:CD	2.36	0.53
1:A:852:GLN:C	1:A:853:LEU:HD22	2.34	0.53
1:A:1008:ILE:O	1:A:1010:LYS:NZ	2.42	0.53
1:A:1023:LYS:H	1:A:1023:LYS:CD	2.21	0.53
1:A:1104:TRP:O	1:A:1105:LEU:C	2.50	0.53
1:A:1137:SER:HB3	1:A:1140:GLU:CB	2.39	0.53
1:B:207:GLY:HA3	1:B:211:THR:H	1.72	0.53
1:B:836:ILE:O	1:B:837:ALA:C	2.51	0.53
1:B:950:ALA:O	1:B:951:ALA:C	2.50	0.53
1:B:995:ALA:HB3	1:B:996:LYS:HD3	1.91	0.53
1:B:1077:GLN:O	1:B:1080:GLU:N	2.40	0.53
1:B:1102:VAL:HG22	1:B:1103:GLN:N	2.24	0.53
1:A:163:ASP:O	1:A:165:GLY:N	2.41	0.53
1:A:211:THR:HA	1:A:214:ILE:CD1	2.38	0.53
1:A:584:ARG:HA	1:A:584:ARG:NE	2.23	0.53
1:A:716:ILE:HD12	1:A:717:ASN:N	2.23	0.53
1:A:756:LEU:CD1	1:A:757:ILE:N	2.70	0.53
1:A:1185:ALA:O	1:A:1188:ARG:N	2.42	0.53
1:B:183:GLY:C	1:B:186:ILE:HG23	2.33	0.53
1:B:686:GLU:HB3	1:B:688:VAL:CG1	2.38	0.53
1:B:843:ILE:HA	1:B:846:SER:CB	2.38	0.53
1:B:939:SER:O	1:B:942:GLN:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1063:ALA:CB	1:B:1239:ILE:HG13	2.38	0.53
1:A:36:LEU:HG	1:A:37:THR:N	2.20	0.53
1:A:548:LEU:HD13	1:A:573:ARG:HG2	1.91	0.53
1:A:713:CYS:SG	1:A:768:LEU:HD11	2.48	0.53
1:A:1039:ASN:ND2	1:A:1047:PRO:HA	2.24	0.53
1:B:286:LYS:HG2	1:B:778:GLU:CG	2.39	0.53
1:B:303:TYR:O	1:B:306:TYR:HB3	2.09	0.53
1:B:393:ILE:HD13	1:B:409:LEU:O	2.09	0.53
1:B:761:ILE:O	1:B:764:ILE:HB	2.09	0.53
1:B:849:TYR:CE2	1:B:972:LEU:HB3	2.43	0.53
1:B:886:LEU:HD12	1:B:887:GLU:N	2.24	0.53
1:A:401:LYS:N	1:A:401:LYS:HD2	2.23	0.53
1:A:718:GLY:HA2	1:A:837:ALA:CB	2.36	0.53
1:A:768:LEU:HG	1:A:769:GLN:H	1.72	0.53
1:A:807:THR:O	1:A:811:THR:HG23	2.08	0.53
1:A:853:LEU:C	1:A:856:LEU:H	2.16	0.53
1:A:910:GLN:O	1:A:912:PHE:N	2.42	0.53
1:B:153:ASN:HD21	1:B:376:LYS:HE2	1.72	0.53
1:B:204:PHE:O	1:B:205:THR:C	2.52	0.53
1:B:214:ILE:CD1	1:B:330:VAL:CG1	2.86	0.53
1:B:282:ARG:N	1:B:282:ARG:NH1	2.56	0.53
1:B:361:VAL:C	1:B:364:ILE:HB	2.33	0.53
1:B:411:LEU:HD23	1:B:411:LEU:C	2.30	0.53
1:B:506:TYR:CD1	1:B:509:ILE:HD11	2.44	0.53
1:B:731:VAL:O	1:B:732:VAL:C	2.50	0.53
1:B:968:GLU:O	1:B:970:VAL:N	2.42	0.53
1:A:96:LYS:HG2	1:A:962:GLN:HB2	1.90	0.53
1:A:393:ILE:HD13	1:A:393:ILE:H	1.73	0.53
1:A:533:GLN:O	1:A:536:ALA:HB3	2.08	0.53
1:A:742:GLU:O	1:A:746:GLN:HG2	2.08	0.53
1:A:786:TYR:O	1:A:787:MET:C	2.50	0.53
1:B:61:GLY:HA2	1:B:194:ALA:HB2	1.91	0.53
1:B:285:ILE:O	1:B:289:ILE:CG1	2.44	0.53
1:B:318:ILE:HG12	1:B:324:ILE:HD12	1.91	0.53
1:B:415:SER:C	1:B:417:GLN:H	2.16	0.53
1:B:787:MET:HB3	1:B:1008:ILE:HD11	1.91	0.53
1:B:907:THR:N	1:B:908:ARG:CZ	2.71	0.53
1:B:938:PHE:CD2	1:B:938:PHE:C	2.86	0.53
1:A:214:ILE:O	1:A:215:LEU:C	2.52	0.53
1:A:283:LEU:HA	1:A:286:LYS:CB	2.39	0.53
1:A:508:PHE:CD1	1:A:509:ILE:N	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:695:ARG:C	1:A:697:LEU:H	2.15	0.53
1:B:227:ILE:HG22	1:B:231:ILE:HD11	1.91	0.53
1:B:257:ILE:O	1:B:261:ILE:N	2.41	0.53
1:B:267:LYS:HB2	1:B:267:LYS:NZ	2.22	0.53
1:B:345:SER:HB3	1:B:346:PRO:HD3	1.90	0.53
1:B:693:PHE:CD2	1:B:694:TRP:N	2.74	0.53
1:B:756:LEU:O	1:B:760:ILE:HB	2.08	0.53
1:B:916:TYR:N	1:B:916:TYR:HD1	2.06	0.53
1:B:982:MET:CG	1:B:983:ALA:N	2.71	0.53
1:B:1084:ASP:OD1	1:B:1085:PRO:HD2	2.09	0.53
1:B:1197:GLU:O	1:B:1200:SER:HB2	2.09	0.53
1:B:1218:ARG:CG	1:B:1219:GLU:N	2.70	0.53
1:A:513:PRO:O	1:A:518:THR:OG1	2.26	0.53
1:A:853:LEU:HD21	1:A:956:GLY:HA2	1.90	0.53
1:A:1018:SER:O	1:A:1020:GLN:N	2.41	0.53
1:A:1020:GLN:OE1	1:A:1020:GLN:C	2.51	0.53
1:A:1046:ILE:CG2	1:A:1047:PRO:CD	2.87	0.53
1:A:1092:LEU:O	1:A:1093:ASP:HB2	2.07	0.53
1:A:1108:GLN:HE21	1:A:1108:GLN:H	1.55	0.53
1:B:44:TRP:C	1:B:46:ASP:H	2.15	0.53
1:B:67:MET:HE2	1:B:117:ILE:HG21	1.91	0.53
1:B:308:LEU:HD23	1:B:309:ALA:H	1.74	0.53
1:B:588:VAL:O	1:B:589:ARG:C	2.51	0.53
1:A:49:TYR:HE2	1:A:130:SER:C	2.17	0.53
1:A:414:LYS:HD2	1:A:414:LYS:N	2.23	0.53
1:A:500:VAL:HG12	1:A:505:ALA:HB3	1.90	0.53
1:A:527:LEU:N	1:A:527:LEU:CD2	2.72	0.53
1:A:757:ILE:HG22	1:A:758:LEU:N	2.23	0.53
1:A:964:LEU:HD13	1:A:965:MET:CA	2.37	0.53
1:A:1056:VAL:HG23	1:A:1062:LEU:HB2	1.89	0.53
1:B:266:GLN:HA	1:B:266:GLN:OE1	2.08	0.53
1:B:697:LEU:CD1	1:B:698:LYS:N	2.71	0.53
1:B:800:PHE:C	1:B:803:PRO:HD3	2.33	0.53
1:B:1150:ILE:CA	1:B:1179:ARG:HD3	2.38	0.53
1:B:1178:GLN:OE1	1:B:1178:GLN:HA	2.08	0.53
1:B:1218:ARG:HG2	1:B:1219:GLU:N	2.23	0.53
1:A:93:GLU:HA	1:A:96:LYS:HZ3	1.74	0.52
1:A:421:LEU:HD22	1:A:579:ILE:HD11	1.89	0.52
1:A:688:VAL:CG2	1:A:1003:HIS:CE1	2.92	0.52
1:A:1066:GLY:N	1:A:1072:LYS:HE2	2.24	0.52
1:A:1080:GLU:CD	1:A:1109:LEU:HD12	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:68:MET:O	1:B:71:PHE:HB3	2.10	0.52
1:B:133:CYS:CB	1:B:931:ALA:HB1	2.39	0.52
1:B:214:ILE:HD11	1:B:330:VAL:HG11	1.91	0.52
1:B:252:GLU:O	1:B:254:LEU:HD21	2.08	0.52
1:B:421:LEU:CD2	1:B:579:ILE:HD11	2.38	0.52
1:B:509:ILE:HA	1:B:512:LEU:HD23	1.91	0.52
1:B:604:GLU:CD	1:B:617:ILE:H	2.17	0.52
1:B:914:THR:O	1:B:917:ALA:N	2.40	0.52
1:B:1011:THR:N	1:B:1012:PRO:CD	2.71	0.52
1:B:1065:VAL:HG13	1:B:1065:VAL:O	2.09	0.52
1:B:1067:SER:OG	1:B:1244:ASN:ND2	2.42	0.52
1:A:157:GLY:HA2	1:A:160:ASP:CB	2.38	0.52
1:A:157:GLY:HA2	1:A:160:ASP:HB2	1.91	0.52
1:A:210:LEU:CA	1:A:213:VAL:HG23	2.31	0.52
1:A:278:GLU:O	1:A:279:GLU:C	2.53	0.52
1:A:314:THR:HG22	1:A:315:SER:N	2.24	0.52
1:A:411:LEU:HD23	1:A:412:LYS:H	1.70	0.52
1:A:438:ARG:NE	1:A:441:ASP:OD1	2.42	0.52
1:A:693:PHE:O	1:A:695:ARG:N	2.42	0.52
1:A:1019:THR:O	1:A:1020:GLN:HB3	2.09	0.52
1:B:68:MET:HA	1:B:68:MET:CE	2.31	0.52
1:B:210:LEU:O	1:B:213:VAL:HB	2.09	0.52
1:B:401:LYS:N	1:B:401:LYS:HD2	2.24	0.52
1:B:530:GLY:CA	1:B:557:LEU:HD11	2.39	0.52
1:B:703:GLU:HA	1:B:783:ARG:HH12	1.74	0.52
1:B:1063:ALA:HB1	1:B:1233:ILE:HD11	1.90	0.52
1:A:106:GLU:OE2	1:A:109:THR:HB	2.09	0.52
1:A:195:THR:HB	1:A:340:SER:CB	2.39	0.52
1:A:896:ALA:HB2	1:A:912:PHE:CE1	2.45	0.52
1:B:267:LYS:HB2	1:B:267:LYS:HZ3	1.72	0.52
1:B:318:ILE:HA	1:B:323:SER:HA	1.92	0.52
1:B:360:GLU:C	1:B:362:PHE:H	2.17	0.52
1:B:496:ILE:HD12	1:B:496:ILE:N	2.22	0.52
1:B:496:ILE:O	1:B:497:GLU:C	2.52	0.52
1:B:520:VAL:HG12	1:B:520:VAL:O	2.08	0.52
1:B:1064:LEU:HD11	1:B:1242:ILE:CG2	2.39	0.52
1:B:1078:LEU:HD22	1:B:1085:PRO:HD3	1.91	0.52
1:B:1125:GLU:O	1:B:1126:ASN:C	2.53	0.52
1:A:121:VAL:O	1:A:122:LEU:C	2.53	0.52
1:A:465:ILE:HG22	1:A:465:ILE:O	2.08	0.52
1:A:692:SER:OG	1:A:696:ILE:HG23	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:733:GLY:C	1:A:735:PHE:H	2.17	0.52
1:A:827:SER:O	1:A:831:VAL:HG23	2.09	0.52
1:A:1023:LYS:HD2	1:A:1023:LYS:N	2.23	0.52
1:B:217:ILE:CD1	1:B:218:SER:N	2.68	0.52
1:B:302:ILE:HA	1:B:305:SER:HB3	1.91	0.52
1:B:756:LEU:HD12	1:B:756:LEU:C	2.34	0.52
1:B:770:GLY:HA2	1:B:773:PHE:CE2	2.44	0.52
1:B:849:TYR:HB3	1:B:854:THR:CB	2.40	0.52
1:B:1048:VAL:HG21	1:B:1074:THR:HG21	1.90	0.52
1:A:138:ARG:NH2	1:A:928:MET:HE1	2.25	0.52
1:A:255:ALA:C	1:A:257:ILE:N	2.67	0.52
1:A:426:GLY:CA	1:A:429:LYS:NZ	2.72	0.52
1:A:474:VAL:HG23	1:A:523:ARG:CZ	2.39	0.52
1:A:523:ARG:CD	1:A:524:GLY:N	2.71	0.52
1:A:543:ARG:NH2	1:A:905:SER:O	2.43	0.52
1:A:691:ALA:O	1:A:692:SER:HB2	2.09	0.52
1:A:696:ILE:HG22	1:A:1005:ILE:HD11	1.90	0.52
1:A:701:SER:HA	1:A:704:TRP:HB3	1.91	0.52
1:A:973:VAL:O	1:A:977:ILE:HG13	2.09	0.52
1:A:1091:PHE:C	1:A:1093:ASP:H	2.16	0.52
1:B:288:ALA:O	1:B:291:ALA:HB3	2.10	0.52
1:B:467:GLY:H	1:B:545:PRO:CB	2.22	0.52
1:B:908:ARG:O	1:B:912:PHE:N	2.39	0.52
1:B:940:PHE:O	1:B:944:MET:HG2	2.08	0.52
1:A:58:ILE:O	1:A:62:VAL:HG23	2.10	0.52
1:A:122:LEU:HD13	1:A:943:ALA:HB2	1.91	0.52
1:A:186:ILE:O	1:A:187:GLY:C	2.52	0.52
1:A:293:ILE:C	1:A:295:MET:N	2.67	0.52
1:A:311:TRP:NE1	1:A:754:LEU:CD1	2.72	0.52
1:A:548:LEU:C	1:A:549:LEU:HD12	2.35	0.52
1:A:591:ALA:HB3	1:A:594:ILE:HD11	1.92	0.52
1:A:696:ILE:O	1:A:700:ASN:CG	2.52	0.52
1:A:777:GLY:HA2	1:A:822:LYS:HG3	1.92	0.52
1:A:902:THR:C	1:A:904:VAL:HG12	2.35	0.52
1:A:1064:LEU:HD11	1:A:1242:ILE:HG21	1.90	0.52
1:A:1233:ILE:O	1:A:1233:ILE:HG13	2.08	0.52
1:B:585:LEU:HD12	1:B:618:TYR:CE1	2.45	0.52
1:B:697:LEU:HD12	1:B:698:LYS:CA	2.40	0.52
1:A:33:VAL:O	1:A:35:VAL:N	2.42	0.52
1:A:530:GLY:CA	1:A:557:LEU:HD11	2.40	0.52
1:A:816:ASN:CG	1:A:817:ASP:N	2.67	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1071:GLY:O	1:A:1075:VAL:HG23	2.09	0.52
1:B:210:LEU:C	1:B:212:LEU:N	2.65	0.52
1:B:543:ARG:NH2	1:B:905:SER:C	2.68	0.52
1:B:579:ILE:HG23	1:B:579:ILE:O	2.09	0.52
1:B:757:ILE:HG22	1:B:758:LEU:N	2.24	0.52
1:B:955:PHE:O	1:B:958:TYR:HB2	2.09	0.52
1:B:1056:VAL:HG22	1:B:1060:GLN:OE1	2.10	0.52
1:A:580:VAL:HG13	1:A:580:VAL:O	2.09	0.52
1:A:881:LYS:HB2	1:A:881:LYS:HZ2	1.74	0.52
1:A:958:TYR:CE2	1:A:959:LEU:HB2	2.45	0.52
1:A:974:PHE:CD1	1:A:974:PHE:C	2.88	0.52
1:A:1218:ARG:HH22	1:A:1235:ASN:ND2	1.98	0.52
1:B:278:GLU:O	1:B:282:ARG:NH1	2.43	0.52
1:B:290:THR:HA	1:B:293:ILE:CB	2.40	0.52
1:B:471:GLN:CG	1:B:472:GLU:H	1.98	0.52
1:B:833:PHE:CG	1:B:834:GLN:N	2.75	0.52
1:B:962:GLN:O	1:B:963:GLN:HB2	2.09	0.52
1:B:1027:LEU:HG	1:B:1028:GLU:H	1.75	0.52
1:B:1043:ARG:NH2	1:B:1086:MET:HG2	2.25	0.52
1:B:1117:ILE:CG1	1:B:1118:LEU:N	2.73	0.52
1:B:1126:ASN:O	1:B:1127:ILE:C	2.53	0.52
1:A:118:GLY:O	1:A:119:ALA:C	2.53	0.52
1:A:415:SER:C	1:A:417:GLN:N	2.65	0.52
1:A:421:LEU:CD2	1:A:579:ILE:HD11	2.39	0.52
1:A:832:ILE:O	1:A:835:ASN:HB3	2.10	0.52
1:A:863:ILE:HD12	1:A:863:ILE:N	2.24	0.52
1:A:1022:LEU:O	1:A:1022:LEU:HD22	2.06	0.52
1:A:1135:VAL:O	1:A:1137:SER:N	2.37	0.52
1:A:1242:ILE:HD12	1:A:1246:LYS:O	2.10	0.52
1:B:70:ILE:CG2	1:B:113:TYR:CD1	2.88	0.52
1:B:147:PHE:O	1:B:150:ALA:HB3	2.10	0.52
1:B:417:GLN:C	1:B:418:THR:CG2	2.82	0.52
1:B:849:TYR:C	1:B:854:THR:OG1	2.53	0.52
1:B:1079:LEU:C	1:B:1081:ARG:N	2.68	0.52
1:B:1148:ALA:HB1	1:B:1179:ARG:O	2.10	0.52
1:B:1177:LYS:HA	1:B:1180:ILE:CD1	2.40	0.52
1:A:131:PHE:HZ	1:A:185:LYS:HZ1	1.50	0.52
1:A:188:MET:SD	1:A:189:PHE:N	2.83	0.52
1:A:248:ALA:C	1:A:250:ALA:H	2.17	0.52
1:A:282:ARG:N	1:A:282:ARG:NH1	2.58	0.52
1:A:381:PRO:HG2	1:A:381:PRO:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:711:ILE:CD1	1:A:832:ILE:HG21	2.40	0.52
1:A:768:LEU:CG	1:A:769:GLN:N	2.73	0.52
1:A:791:SER:N	1:A:794:ARG:HH21	2.07	0.52
1:A:841:THR:O	1:A:845:ILE:HG12	2.10	0.52
1:A:984:VAL:O	1:A:987:VAL:HG12	2.09	0.52
1:A:1025:ASN:C	1:A:1027:LEU:N	2.68	0.52
1:B:359:TYR:C	1:B:362:PHE:HB3	2.35	0.52
1:B:498:LYS:NZ	1:B:502:GLU:CG	2.73	0.52
1:A:54:THR:O	1:A:58:ILE:HD13	2.10	0.51
1:A:195:THR:HG23	1:A:196:PHE:H	1.74	0.51
1:A:225:ALA:HB2	1:A:302:ILE:CG2	2.39	0.51
1:A:905:SER:C	1:A:907:THR:H	2.19	0.51
1:A:1062:LEU:HD13	1:A:1063:ALA:N	2.25	0.51
1:A:1139:GLU:CD	1:A:1139:GLU:H	2.18	0.51
1:A:1208:LYS:HD3	1:A:1209:VAL:N	2.25	0.51
1:B:41:TYR:CG	1:B:42:ALA:N	2.71	0.51
1:B:45:LEU:HD22	1:B:45:LEU:N	2.25	0.51
1:B:85:SER:O	1:B:88:SER:HB2	2.10	0.51
1:B:235:PHE:O	1:B:239:GLU:HG2	2.10	0.51
1:B:366:ASP:O	1:B:367:ASN:C	2.52	0.51
1:B:421:LEU:HD22	1:B:579:ILE:HD11	1.92	0.51
1:B:812:THR:O	1:B:813:ARG:C	2.53	0.51
1:B:969:ASN:O	1:B:972:LEU:N	2.42	0.51
1:A:36:LEU:CG	1:A:37:THR:N	2.73	0.51
1:A:221:LEU:HD12	1:A:306:TYR:HA	1.92	0.51
1:A:360:GLU:C	1:A:362:PHE:H	2.16	0.51
1:A:1094:GLY:O	1:A:1095:LYS:CG	2.51	0.51
1:B:37:THR:O	1:B:38:MET:C	2.54	0.51
1:B:58:ILE:N	1:B:58:ILE:HD12	2.25	0.51
1:B:290:THR:HG21	1:B:771:PHE:HA	1.90	0.51
1:B:492:THR:CB	1:B:495:GLU:OE2	2.56	0.51
1:B:768:LEU:HD12	1:B:769:GLN:N	2.25	0.51
1:B:797:VAL:C	1:B:801:ASP:HB2	2.34	0.51
1:A:183:GLY:HA2	1:A:186:ILE:CG2	2.41	0.51
1:A:291:ALA:HA	1:A:294:SER:CB	2.36	0.51
1:A:304:ALA:HB2	1:A:758:LEU:HB3	1.91	0.51
1:A:361:VAL:C	1:A:364:ILE:HB	2.36	0.51
1:A:382:ASP:O	1:A:384:ILE:CD1	2.58	0.51
1:A:573:ARG:O	1:A:576:ARG:N	2.43	0.51
1:A:585:LEU:HD22	1:A:585:LEU:H	1.75	0.51
1:A:711:ILE:HG13	1:A:832:ILE:CG2	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:500:VAL:HG21	1:B:516:PHE:CZ	2.45	0.51
1:B:882:ASP:O	1:B:886:LEU:HG	2.09	0.51
1:B:993:ASP:C	1:B:995:ALA:H	2.18	0.51
1:A:61:GLY:O	1:A:65:PRO:CD	2.50	0.51
1:A:65:PRO:O	1:A:68:MET:HB2	2.10	0.51
1:A:221:LEU:HD11	1:A:309:ALA:HB3	1.91	0.51
1:A:227:ILE:HG22	1:A:231:ILE:HD11	1.93	0.51
1:A:365:ILE:HG22	1:A:366:ASP:N	2.25	0.51
1:A:544:ASN:CG	1:A:544:ASN:O	2.53	0.51
1:A:570:ASP:C	1:A:572:ALA:N	2.68	0.51
1:A:585:LEU:HA	1:A:588:VAL:HG23	1.88	0.51
1:A:697:LEU:CD1	1:A:698:LYS:N	2.69	0.51
1:A:711:ILE:CD1	1:A:832:ILE:CD1	2.87	0.51
1:A:720:LEU:HD13	1:A:761:ILE:CG2	2.38	0.51
1:A:1016:SER:OG	1:A:1017:TYR:N	2.42	0.51
1:A:1018:SER:O	1:A:1020:GLN:O	2.28	0.51
1:B:36:LEU:HG	1:B:37:THR:N	2.25	0.51
1:B:289:ILE:O	1:B:291:ALA:N	2.43	0.51
1:B:321:GLU:O	1:B:322:TYR:C	2.53	0.51
1:B:514:HIS:O	1:B:515:GLN:CB	2.59	0.51
1:B:706:TYR:O	1:B:707:PHE:CG	2.64	0.51
1:B:1076:VAL:HG13	1:B:1194:LEU:HD13	1.91	0.51
1:B:1242:ILE:HD12	1:B:1246:LYS:C	2.35	0.51
1:A:359:TYR:HE1	1:A:360:GLU:OE1	1.93	0.51
1:A:424:ASN:CB	1:A:598:ASP:OD1	2.58	0.51
1:A:588:VAL:O	1:A:589:ARG:C	2.53	0.51
1:A:734:VAL:HG11	1:A:750:LEU:HD11	1.93	0.51
1:A:782:LYS:C	1:A:784:LEU:N	2.64	0.51
1:A:788:VAL:O	1:A:791:SER:HB2	2.10	0.51
1:A:916:TYR:N	1:A:916:TYR:HD1	2.09	0.51
1:A:1231:SER:HA	1:A:1270:GLN:HE22	1.76	0.51
1:B:479:THR:HA	1:B:518:THR:O	2.11	0.51
1:B:711:ILE:HD12	1:B:832:ILE:HD13	1.93	0.51
1:B:1133:SER:O	1:B:1134:ARG:C	2.53	0.51
1:A:35:VAL:O	1:A:39:PHE:CB	2.45	0.51
1:A:425:SER:OG	1:A:598:ASP:O	2.28	0.51
1:A:520:VAL:HG12	1:A:520:VAL:O	2.09	0.51
1:A:607:ASN:HB3	1:A:610:GLU:CG	2.39	0.51
1:A:724:PHE:O	1:A:725:SER:C	2.54	0.51
1:A:731:VAL:HG22	1:A:750:LEU:HB3	1.93	0.51
1:A:731:VAL:O	1:A:732:VAL:C	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:755:PHE:O	1:A:756:LEU:C	2.53	0.51
1:A:792:MET:HA	1:A:795:GLN:HB2	1.93	0.51
1:A:843:ILE:HA	1:A:846:SER:CB	2.41	0.51
1:A:856:LEU:HD21	1:A:952:ALA:HA	1.91	0.51
1:A:1118:LEU:HD12	1:A:1118:LEU:H	1.73	0.51
1:B:122:LEU:HD12	1:B:939:SER:HB2	1.92	0.51
1:B:484:ILE:CG2	1:B:496:ILE:HG13	2.38	0.51
1:B:813:ARG:HD3	1:B:817:ASP:OD2	2.10	0.51
1:B:853:LEU:HG	1:B:973:VAL:HG21	1.92	0.51
1:B:1042:THR:C	1:B:1044:PRO:CD	2.81	0.51
1:B:1077:GLN:O	1:B:1080:GLU:HB2	2.11	0.51
1:B:1090:VAL:CG2	1:B:1091:PHE:N	2.72	0.51
1:A:232:LEU:HB2	1:A:295:MET:HE2	1.92	0.51
1:A:792:MET:CE	1:A:810:LEU:HB3	2.40	0.51
1:A:892:ILE:CB	1:A:916:TYR:CZ	2.91	0.51
1:A:925:ARG:NE	1:B:519:LEU:HD12	2.26	0.51
1:A:1020:GLN:HG2	1:A:1100:LEU:CD1	2.40	0.51
1:A:1063:ALA:CB	1:A:1236:ALA:HB1	2.31	0.51
1:A:1202:LEU:HG	1:A:1206:SER:HB2	1.93	0.51
1:B:202:ILE:O	1:B:204:PHE:N	2.43	0.51
1:B:207:GLY:C	1:B:209:LYS:H	2.18	0.51
1:B:315:SER:HB3	1:B:747:ASN:CG	2.36	0.51
1:B:905:SER:CB	1:B:908:ARG:NH1	2.65	0.51
1:B:1185:ALA:C	1:B:1187:VAL:H	2.18	0.51
1:A:36:LEU:HD12	1:A:37:THR:N	2.25	0.51
1:A:44:TRP:CG	1:A:45:LEU:HD22	2.45	0.51
1:A:123:ILE:O	1:A:127:ILE:HG12	2.11	0.51
1:A:202:ILE:HD12	1:A:203:GLY:H	1.73	0.51
1:A:215:LEU:C	1:A:219:PRO:HD2	2.36	0.51
1:A:220:VAL:O	1:A:223:LEU:HB2	2.11	0.51
1:A:239:GLU:OE1	1:A:239:GLU:HA	2.10	0.51
1:A:324:ILE:HB	1:A:326:GLN:HB2	1.92	0.51
1:A:447:VAL:HG22	1:A:454:ILE:CG2	2.41	0.51
1:A:509:ILE:CD1	1:A:510:MET:HG2	2.40	0.51
1:A:535:ILE:O	1:A:538:ALA:HB3	2.11	0.51
1:A:838:ASN:HB2	1:A:982:MET:SD	2.51	0.51
1:B:153:ASN:HA	1:B:155:GLU:OE2	2.10	0.51
1:B:232:LEU:HB2	1:B:295:MET:HE2	1.92	0.51
1:B:507:ASP:OD1	1:B:508:PHE:N	2.44	0.51
1:B:554:THR:OG1	1:B:562:GLU:HG3	2.11	0.51
1:B:570:ASP:C	1:B:572:ALA:N	2.68	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:762:SER:CA	1:B:765:THR:HG22	2.40	0.51
1:A:175:VAL:CG1	1:A:176:SER:N	2.73	0.51
1:A:227:ILE:HG22	1:A:231:ILE:CD1	2.41	0.51
1:A:348:ILE:O	1:A:349:GLU:C	2.54	0.51
1:A:757:ILE:O	1:A:758:LEU:C	2.53	0.51
1:A:773:PHE:HB2	1:A:829:LEU:CD1	2.39	0.51
1:A:777:GLY:CA	1:A:822:LYS:HG3	2.41	0.51
1:A:955:PHE:O	1:A:958:TYR:CB	2.59	0.51
1:A:968:GLU:O	1:A:970:VAL:N	2.44	0.51
1:A:969:ASN:N	1:A:969:ASN:ND2	2.58	0.51
1:A:1173:SER:N	1:A:1176:GLN:HE22	2.02	0.51
1:A:1185:ALA:C	1:A:1187:VAL:N	2.68	0.51
1:B:41:TYR:CE2	1:B:42:ALA:HB2	2.46	0.51
1:B:151:ILE:HD12	1:B:167:LEU:HD21	1.92	0.51
1:B:404:GLN:H	1:B:404:GLN:CD	2.18	0.51
1:B:438:ARG:HB2	1:B:454:ILE:HD11	1.93	0.51
1:B:721:GLN:HB3	1:B:722:PRO:CD	2.40	0.51
1:B:779:ILE:O	1:B:780:LEU:C	2.53	0.51
1:B:920:LEU:O	1:B:921:GLN:C	2.54	0.51
1:B:1064:LEU:HD11	1:B:1242:ILE:HG21	1.93	0.51
1:A:33:VAL:O	1:A:34:SER:C	2.54	0.51
1:A:49:TYR:OH	1:A:130:SER:CB	2.56	0.51
1:A:158:TRP:CZ2	1:A:900:PHE:HA	2.46	0.51
1:A:214:ILE:HG23	1:A:334:VAL:HG11	1.91	0.51
1:A:253:VAL:CA	1:A:254:LEU:HD22	2.41	0.51
1:A:315:SER:CB	1:A:747:ASN:ND2	2.71	0.51
1:A:327:VAL:O	1:A:330:VAL:HG23	2.11	0.51
1:A:496:ILE:HD12	1:A:496:ILE:N	2.25	0.51
1:A:561:SER:O	1:A:562:GLU:C	2.53	0.51
1:A:1030:ASN:OD1	1:A:1058:LYS:HB3	2.11	0.51
1:A:1170:THR:O	1:A:1170:THR:HG22	2.10	0.51
1:A:1185:ALA:C	1:A:1187:VAL:H	2.19	0.51
1:B:185:LYS:HZ2	1:B:186:ILE:CA	2.23	0.51
1:B:431:THR:HG22	1:B:435:LEU:HD21	1.92	0.51
1:B:557:LEU:CD2	1:B:565:VAL:HG21	2.40	0.51
1:B:817:ASP:O	1:B:818:ALA:C	2.53	0.51
1:B:881:LYS:HB2	1:B:881:LYS:HZ2	1.75	0.51
1:A:104:GLU:O	1:A:107:MET:HB3	2.11	0.50
1:A:798:SER:HA	1:A:801:ASP:CB	2.32	0.50
1:A:857:LEU:HD23	1:A:857:LEU:O	2.09	0.50
1:A:964:LEU:HD22	1:A:965:MET:N	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1035:GLY:O	1:A:1036:VAL:C	2.54	0.50
1:A:1078:LEU:HD23	1:A:1083:TYR:O	2.11	0.50
1:B:228:TRP:O	1:B:231:ILE:HB	2.11	0.50
1:B:584:ARG:O	1:B:587:THR:N	2.40	0.50
1:B:798:SER:N	1:B:801:ASP:HB2	2.26	0.50
1:A:129:VAL:HG22	1:A:938:PHE:CD1	2.46	0.50
1:A:362:PHE:CA	1:A:365:ILE:HD12	2.41	0.50
1:A:585:LEU:HA	1:A:588:VAL:HG21	1.92	0.50
1:A:589:ARG:O	1:A:591:ALA:N	2.39	0.50
1:A:696:ILE:O	1:A:700:ASN:CB	2.60	0.50
1:A:753:LEU:HD12	1:A:757:ILE:HG12	1.92	0.50
1:A:787:MET:HB3	1:A:1008:ILE:CD1	2.40	0.50
1:A:920:LEU:O	1:A:921:GLN:C	2.54	0.50
1:A:1173:SER:HB3	1:A:1176:GLN:CD	2.35	0.50
1:A:1208:LYS:NZ	1:A:1209:VAL:HA	2.25	0.50
1:A:1218:ARG:C	1:A:1220:GLY:N	2.69	0.50
1:B:44:TRP:CD1	1:B:45:LEU:HD13	2.46	0.50
1:B:76:ASP:O	1:B:77:SER:C	2.54	0.50
1:B:324:ILE:H	1:B:324:ILE:HD12	1.75	0.50
1:B:509:ILE:HD12	1:B:509:ILE:C	2.36	0.50
1:B:702:THR:C	1:B:704:TRP:N	2.68	0.50
1:B:756:LEU:HA	1:B:760:ILE:HD13	1.93	0.50
1:B:912:PHE:O	1:B:913:GLU:C	2.52	0.50
1:B:1037:VAL:HG21	1:B:1087:ALA:HB3	1.92	0.50
1:B:1052:LEU:CG	1:B:1054:LEU:HD21	2.42	0.50
1:A:168:ASN:O	1:A:169:THR:C	2.54	0.50
1:A:184:ASP:O	1:A:185:LYS:C	2.54	0.50
1:A:267:LYS:NZ	1:A:267:LYS:CB	2.71	0.50
1:A:303:TYR:O	1:A:306:TYR:CB	2.59	0.50
1:A:695:ARG:C	1:A:697:LEU:N	2.64	0.50
1:A:981:ALA:O	1:A:984:VAL:HB	2.11	0.50
1:A:1076:VAL:CG1	1:A:1194:LEU:HD13	2.41	0.50
1:B:33:VAL:N	1:B:36:LEU:HD11	2.26	0.50
1:B:54:THR:O	1:B:57:ALA:HB3	2.12	0.50
1:B:238:LYS:HZ1	1:B:242:ALA:HB2	1.77	0.50
1:B:462:LEU:HG	1:B:466:ILE:CD1	2.41	0.50
1:B:552:GLU:O	1:B:555:SER:N	2.43	0.50
1:B:760:ILE:O	1:B:761:ILE:C	2.55	0.50
1:B:760:ILE:HD12	1:B:760:ILE:N	2.26	0.50
1:B:764:ILE:HG22	1:B:765:THR:N	2.24	0.50
1:B:964:LEU:HD13	1:B:964:LEU:C	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:970:VAL:HG23	1:B:971:LEU:CD2	2.40	0.50
1:B:1045:SER:O	1:B:1046:ILE:C	2.53	0.50
1:A:114:TYR:HB2	1:A:950:ALA:HB2	1.91	0.50
1:A:198:GLY:C	1:A:200:PHE:N	2.67	0.50
1:A:411:LEU:HD23	1:A:412:LYS:O	2.11	0.50
1:A:552:GLU:O	1:A:555:SER:HB2	2.12	0.50
1:A:694:TRP:O	1:A:698:LYS:HG3	2.10	0.50
1:A:993:ASP:N	1:A:996:LYS:NZ	2.59	0.50
1:A:1054:LEU:HD22	1:A:1054:LEU:N	2.27	0.50
1:B:131:PHE:CE2	1:B:186:ILE:HG22	2.46	0.50
1:B:157:GLY:C	1:B:159:PHE:N	2.69	0.50
1:B:528:SER:C	1:B:530:GLY:N	2.68	0.50
1:B:733:GLY:C	1:B:735:PHE:H	2.19	0.50
1:B:994:TYR:O	1:B:994:TYR:CD1	2.64	0.50
1:B:1258:ALA:HA	1:B:1260:LYS:NZ	2.27	0.50
1:A:103:LEU:HB2	1:A:960:VAL:HG23	1.93	0.50
1:A:257:ILE:O	1:A:258:ARG:C	2.54	0.50
1:A:278:GLU:O	1:A:282:ARG:NH1	2.43	0.50
1:A:289:ILE:O	1:A:292:ASN:N	2.41	0.50
1:A:438:ARG:NH1	1:A:438:ARG:CG	2.72	0.50
1:A:467:GLY:H	1:A:545:PRO:CB	2.25	0.50
1:A:741:PRO:O	1:A:742:GLU:CB	2.59	0.50
1:A:967:PHE:CD1	1:A:968:GLU:N	2.79	0.50
1:A:991:ALA:HB1	1:A:992:PRO:CD	2.34	0.50
1:A:1225:VAL:O	1:A:1225:VAL:HG13	2.12	0.50
1:B:167:LEU:O	1:B:170:ARG:N	2.45	0.50
1:B:282:ARG:C	1:B:286:LYS:HB2	2.37	0.50
1:B:528:SER:O	1:B:529:GLY:C	2.54	0.50
1:B:808:GLY:C	1:B:810:LEU:N	2.65	0.50
1:B:821:VAL:O	1:B:822:LYS:C	2.54	0.50
1:B:1067:SER:OG	1:B:1068:SER:N	2.43	0.50
1:B:1185:ALA:C	1:B:1187:VAL:N	2.69	0.50
1:A:431:THR:C	1:A:434:GLN:H	2.20	0.50
1:A:438:ARG:O	1:A:438:ARG:HD3	2.11	0.50
1:A:512:LEU:HD12	1:A:513:PRO:HG2	1.94	0.50
1:A:887:GLU:O	1:A:891:LYS:HB2	2.11	0.50
1:A:902:THR:C	1:A:904:VAL:H	2.20	0.50
1:A:906:LEU:O	1:A:906:LEU:HD23	2.11	0.50
1:A:967:PHE:CG	1:A:968:GLU:N	2.76	0.50
1:A:1043:ARG:NH2	1:A:1086:MET:HG2	2.26	0.50
1:A:1230:LEU:HD12	1:A:1270:GLN:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:122:LEU:HD13	1:B:943:ALA:HB2	1.93	0.50
1:B:293:ILE:C	1:B:295:MET:N	2.67	0.50
1:B:492:THR:C	1:B:494:ASP:N	2.69	0.50
1:B:863:ILE:N	1:B:863:ILE:HD12	2.26	0.50
1:B:974:PHE:C	1:B:974:PHE:CD1	2.90	0.50
1:B:1262:ILE:H	1:B:1262:ILE:CD1	2.20	0.50
1:A:185:LYS:NZ	1:A:186:ILE:CA	2.75	0.50
1:A:247:GLY:C	1:A:250:ALA:HB3	2.37	0.50
1:A:431:THR:O	1:A:434:GLN:CB	2.60	0.50
1:A:762:SER:CA	1:A:765:THR:HG22	2.41	0.50
1:A:1075:VAL:O	1:A:1076:VAL:C	2.55	0.50
1:B:604:GLU:OE2	1:B:617:ILE:HB	2.11	0.50
1:B:861:VAL:O	1:B:862:PRO:C	2.48	0.50
1:B:995:ALA:N	1:B:996:LYS:HZ1	1.99	0.50
1:A:198:GLY:O	1:A:202:ILE:HG13	2.11	0.50
1:A:204:PHE:O	1:A:205:THR:C	2.54	0.50
1:A:208:TRP:C	1:A:209:LYS:CD	2.80	0.50
1:A:209:LYS:O	1:A:212:LEU:HB3	2.11	0.50
1:A:423:GLY:HA3	1:A:429:LYS:HD2	1.92	0.50
1:A:490:ASP:O	1:A:491:VAL:HB	2.11	0.50
1:A:536:ALA:O	1:A:539:ARG:HB3	2.11	0.50
1:A:946:TYR:CG	1:A:947:PHE:N	2.80	0.50
1:A:1037:VAL:HG22	1:A:1087:ALA:CB	2.41	0.50
1:A:1076:VAL:HG13	1:A:1194:LEU:HB3	1.92	0.50
1:A:1153:PHE:CE2	1:A:1172:LEU:HD22	2.46	0.50
1:B:156:ILE:N	1:B:156:ILE:CD1	2.41	0.50
1:B:504:ASN:OD1	1:B:568:ALA:HB2	2.12	0.50
1:B:621:LEU:HD22	1:B:621:LEU:H	1.76	0.50
1:B:912:PHE:O	1:B:915:MET:N	2.45	0.50
1:B:939:SER:OG	1:B:940:PHE:N	2.45	0.50
1:A:210:LEU:C	1:A:212:LEU:H	2.19	0.50
1:A:212:LEU:HD13	1:A:215:LEU:HD12	1.92	0.50
1:A:428:GLY:O	1:A:431:THR:N	2.45	0.50
1:A:685:ASP:O	1:A:686:GLU:CG	2.57	0.50
1:A:777:GLY:HA3	1:A:822:LYS:HE3	1.93	0.50
1:A:1033:PHE:CD1	1:A:1036:VAL:CG2	2.95	0.50
1:A:1043:ARG:CZ	1:A:1086:MET:HE3	2.42	0.50
1:A:1133:SER:O	1:A:1134:ARG:C	2.55	0.50
1:B:58:ILE:CD1	1:B:58:ILE:H	2.25	0.50
1:B:232:LEU:HG	1:B:295:MET:SD	2.52	0.50
1:B:504:ASN:O	1:B:534:ARG:HD3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:560:GLU:O	1:B:563:ALA:HB3	2.12	0.50
1:B:867:ALA:HA	1:B:870:VAL:HG12	1.92	0.50
1:B:949:TYR:O	1:B:952:ALA:HB3	2.12	0.50
1:B:969:ASN:N	1:B:969:ASN:ND2	2.58	0.50
1:B:1033:PHE:O	1:B:1053:SER:HA	2.11	0.50
1:B:1090:VAL:C	1:B:1091:PHE:CD1	2.90	0.50
1:B:1263:TYR:O	1:B:1266:MET:HB2	2.12	0.50
1:A:99:MET:C	1:A:101:ALA:N	2.69	0.49
1:A:392:ASN:O	1:A:392:ASN:CG	2.55	0.49
1:A:621:LEU:HD22	1:A:621:LEU:N	2.27	0.49
1:A:1011:THR:O	1:A:1013:GLU:HB2	2.12	0.49
1:A:1057:LYS:H	1:A:1057:LYS:CD	2.24	0.49
1:A:1144:ALA:CB	1:A:1187:VAL:CG2	2.86	0.49
1:B:58:ILE:HG22	1:B:59:ILE:N	2.26	0.49
1:B:374:PHE:HD1	1:B:375:SER:N	2.06	0.49
1:B:731:VAL:HG22	1:B:750:LEU:HB3	1.94	0.49
1:B:855:LEU:HA	1:B:858:LEU:HG	1.93	0.49
1:B:1140:GLU:O	1:B:1143:ARG:N	2.45	0.49
1:B:1170:THR:O	1:B:1171:GLN:HB3	2.11	0.49
1:A:212:LEU:O	1:A:213:VAL:C	2.53	0.49
1:A:251:GLU:CD	1:A:811:THR:HB	2.37	0.49
1:A:359:TYR:C	1:A:362:PHE:HB3	2.37	0.49
1:A:514:HIS:O	1:A:515:GLN:CB	2.60	0.49
1:A:570:ASP:C	1:A:572:ALA:H	2.20	0.49
1:A:842:GLY:O	1:A:846:SER:OG	2.24	0.49
1:A:853:LEU:O	1:A:857:LEU:N	2.45	0.49
1:A:907:THR:N	1:A:908:ARG:NE	2.60	0.49
1:A:908:ARG:O	1:A:911:LYS:N	2.45	0.49
1:A:1019:THR:O	1:A:1020:GLN:CB	2.60	0.49
1:A:1019:THR:O	1:A:1100:LEU:HD12	2.12	0.49
1:A:1027:LEU:O	1:A:1028:GLU:C	2.54	0.49
1:A:1046:ILE:HG23	1:A:1047:PRO:HD2	1.95	0.49
1:B:210:LEU:C	1:B:213:VAL:H	2.19	0.49
1:B:268:LYS:HD3	1:B:268:LYS:C	2.36	0.49
1:B:417:GLN:O	1:B:418:THR:HG22	2.12	0.49
1:B:901:ARG:H	1:B:901:ARG:CD	2.04	0.49
1:B:918:GLN:O	1:B:919:SER:C	2.54	0.49
1:B:1199:THR:HG22	1:B:1202:LEU:HD22	1.93	0.49
1:A:155:GLU:O	1:A:157:GLY:N	2.44	0.49
1:A:267:LYS:HB2	1:A:267:LYS:HZ2	1.73	0.49
1:A:311:TRP:HE1	1:A:754:LEU:HD13	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:530:GLY:HA2	1:A:557:LEU:HD11	1.95	0.49
1:A:722:PRO:O	1:A:725:SER:HB2	2.11	0.49
1:A:764:ILE:O	1:A:765:THR:C	2.55	0.49
1:A:787:MET:SD	1:A:1008:ILE:HD11	2.52	0.49
1:A:992:PRO:C	1:A:994:TYR:N	2.69	0.49
1:A:1097:ILE:HD12	1:A:1105:LEU:CD1	2.38	0.49
1:A:1104:TRP:C	1:A:1107:ALA:H	2.20	0.49
1:A:1137:SER:O	1:A:1141:ILE:HG23	2.13	0.49
1:B:121:VAL:O	1:B:122:LEU:C	2.53	0.49
1:B:298:ALA:O	1:B:299:PHE:C	2.54	0.49
1:B:393:ILE:O	1:B:393:ILE:HG12	2.12	0.49
1:B:718:GLY:HA2	1:B:837:ALA:CB	2.42	0.49
1:B:764:ILE:O	1:B:765:THR:C	2.55	0.49
1:B:974:PHE:HA	1:B:977:ILE:HD12	1.94	0.49
1:A:130:SER:O	1:A:134:LEU:HB2	2.12	0.49
1:A:286:LYS:HE3	1:A:822:LYS:HZ1	1.78	0.49
1:A:355:ARG:O	1:A:356:GLY:C	2.56	0.49
1:A:589:ARG:C	1:A:591:ALA:H	2.19	0.49
1:A:837:ALA:HB1	1:A:982:MET:HE2	1.94	0.49
1:B:265:GLY:O	1:B:267:LYS:CD	2.60	0.49
1:B:282:ARG:HG3	1:B:782:LYS:HD3	1.94	0.49
1:B:476:PHE:CD1	1:B:476:PHE:N	2.80	0.49
1:B:690:PRO:CG	1:B:1006:ARG:CZ	2.88	0.49
1:B:711:ILE:CG1	1:B:715:ILE:HD11	2.43	0.49
1:B:853:LEU:HB3	1:B:973:VAL:HG22	1.93	0.49
1:B:931:ALA:O	1:B:932:HIS:C	2.54	0.49
1:A:141:HIS:CE1	1:A:924:TYR:HB2	2.47	0.49
1:A:202:ILE:C	1:A:204:PHE:H	2.20	0.49
1:A:282:ARG:C	1:A:286:LYS:HB2	2.35	0.49
1:A:765:THR:CG2	1:A:766:PHE:H	2.26	0.49
1:A:1042:THR:O	1:A:1044:PRO:N	2.45	0.49
1:A:1243:GLN:O	1:A:1244:ASN:C	2.55	0.49
1:B:162:HIS:C	1:B:164:VAL:H	2.19	0.49
1:B:204:PHE:O	1:B:211:THR:HG21	2.12	0.49
1:B:251:GLU:O	1:B:252:GLU:HB2	2.12	0.49
1:B:327:VAL:O	1:B:328:LEU:C	2.55	0.49
1:B:560:GLU:OE2	1:B:560:GLU:C	2.55	0.49
1:B:967:PHE:CG	1:B:968:GLU:N	2.79	0.49
1:A:44:TRP:O	1:A:46:ASP:N	2.45	0.49
1:A:71:PHE:HE1	1:A:328:LEU:HD21	1.77	0.49
1:A:197:PHE:O	1:A:201:ILE:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:209:LYS:HD3	1:A:209:LYS:N	2.28	0.49
1:A:362:PHE:C	1:A:364:ILE:N	2.68	0.49
1:A:399:SER:O	1:A:402:GLU:OE2	2.31	0.49
1:A:476:PHE:CE1	1:A:486:TYR:HD1	2.29	0.49
1:A:843:ILE:HA	1:A:846:SER:HB2	1.94	0.49
1:A:910:GLN:HG2	1:B:492:THR:OG1	2.12	0.49
1:B:195:THR:HG23	1:B:196:PHE:H	1.77	0.49
1:B:332:PHE:HZ	1:B:974:PHE:HE2	1.60	0.49
1:B:453:ASP:O	1:B:454:ILE:C	2.55	0.49
1:B:472:GLU:HG3	1:B:472:GLU:O	2.13	0.49
1:B:484:ILE:HG21	1:B:496:ILE:CG1	2.43	0.49
1:B:492:THR:O	1:B:494:ASP:N	2.45	0.49
1:B:550:LEU:N	1:B:550:LEU:HD12	2.28	0.49
1:B:782:LYS:C	1:B:784:LEU:N	2.67	0.49
1:B:878:GLN:HA	1:B:881:LYS:HG2	1.95	0.49
1:B:995:ALA:C	1:B:997:ALA:N	2.70	0.49
1:A:245:LYS:NZ	1:A:245:LYS:HA	2.28	0.49
1:A:387:ASN:ND2	1:A:415:SER:N	2.61	0.49
1:A:500:VAL:HG21	1:A:516:PHE:CZ	2.46	0.49
1:A:508:PHE:CE1	1:A:509:ILE:CG2	2.95	0.49
1:A:919:SER:O	1:A:920:LEU:C	2.55	0.49
1:A:940:PHE:O	1:A:944:MET:HG2	2.13	0.49
1:A:1039:ASN:HB2	1:A:1047:PRO:CG	2.42	0.49
1:A:1184:ARG:O	1:A:1187:VAL:HB	2.13	0.49
1:A:1185:ALA:O	1:A:1187:VAL:N	2.46	0.49
1:B:33:VAL:O	1:B:35:VAL:N	2.46	0.49
1:B:88:SER:O	1:B:90:ASN:N	2.44	0.49
1:B:227:ILE:HG22	1:B:231:ILE:CD1	2.42	0.49
1:B:414:LYS:H	1:B:414:LYS:CD	2.24	0.49
1:B:492:THR:C	1:B:494:ASP:H	2.20	0.49
1:B:510:MET:HE1	1:B:515:GLN:OE1	2.12	0.49
1:A:459:VAL:O	1:A:461:TYR:N	2.45	0.49
1:A:711:ILE:O	1:A:711:ILE:CG1	2.60	0.49
1:A:758:LEU:O	1:A:759:GLY:C	2.55	0.49
1:A:794:ARG:O	1:A:795:GLN:O	2.31	0.49
1:A:882:ASP:O	1:A:886:LEU:HG	2.12	0.49
1:A:1030:ASN:ND2	1:A:1057:LYS:HA	2.27	0.49
1:A:1129:TYR:O	1:A:1131:ASP:CG	2.56	0.49
1:B:34:SER:CA	1:B:38:MET:HB2	2.37	0.49
1:B:55:LEU:O	1:B:58:ILE:HB	2.12	0.49
1:B:118:GLY:CA	1:B:946:TYR:CD1	2.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:171:LEU:C	1:B:171:LEU:CD1	2.86	0.49
1:B:184:ASP:O	1:B:187:GLY:N	2.46	0.49
1:B:218:SER:O	1:B:219:PRO:C	2.53	0.49
1:B:255:ALA:C	1:B:257:ILE:N	2.68	0.49
1:B:388:LEU:HB2	1:B:413:VAL:CG1	2.41	0.49
1:B:450:ASP:CG	1:B:451:GLY:N	2.71	0.49
1:B:734:VAL:HG11	1:B:750:LEU:CD1	2.42	0.49
1:B:1091:PHE:C	1:B:1093:ASP:N	2.68	0.49
1:B:1117:ILE:HD12	1:B:1118:LEU:N	2.20	0.49
1:B:1144:ALA:CB	1:B:1187:VAL:CG2	2.87	0.49
1:A:178:ILE:HA	1:A:354:ALA:HB1	1.95	0.49
1:A:301:LEU:HA	1:A:759:GLY:HA2	1.95	0.49
1:A:1032:GLN:NE2	1:A:1055:GLU:HB2	2.28	0.49
1:A:1092:LEU:HD11	1:A:1104:TRP:HZ3	1.77	0.49
1:B:33:VAL:O	1:B:34:SER:C	2.55	0.49
1:B:463:ARG:HH12	1:B:903:VAL:HG22	1.77	0.49
1:B:701:SER:HA	1:B:704:TRP:CB	2.43	0.49
1:B:821:VAL:HG23	1:B:822:LYS:N	2.28	0.49
1:B:855:LEU:O	1:B:856:LEU:C	2.56	0.49
1:B:1057:LYS:HB2	1:B:1060:GLN:HE21	1.75	0.49
1:B:1080:GLU:OE1	1:B:1080:GLU:HA	2.12	0.49
1:A:257:ILE:HD12	1:A:260:VAL:HB	1.94	0.49
1:A:277:LEU:O	1:A:280:ALA:HB3	2.12	0.49
1:A:902:THR:CA	1:A:904:VAL:HG12	2.42	0.49
1:A:964:LEU:HD12	1:A:966:THR:HG23	1.94	0.49
1:A:1003:HIS:O	1:A:1007:ILE:HD13	2.13	0.49
1:A:1100:LEU:HD21	1:A:1104:TRP:CZ3	2.47	0.49
1:A:1123:ILE:HD12	1:A:1123:ILE:C	2.38	0.49
1:A:1261:GLY:H	1:A:1264:PHE:CB	2.26	0.49
1:B:282:ARG:HB3	1:B:778:GLU:CG	2.42	0.49
1:B:311:TRP:HA	1:B:311:TRP:CE3	2.47	0.49
1:B:330:VAL:O	1:B:331:PHE:C	2.55	0.49
1:B:375:SER:O	1:B:376:LYS:CD	2.57	0.49
1:B:1064:LEU:CB	1:B:1226:ILE:HG22	2.43	0.49
1:B:1091:PHE:CD2	1:B:1094:GLY:O	2.65	0.49
1:B:1123:ILE:HA	1:B:1126:ASN:HB2	1.95	0.49
1:B:1208:LYS:NZ	1:B:1209:VAL:HA	2.28	0.49
1:A:72:GLY:CA	1:A:329:THR:OG1	2.59	0.48
1:A:218:SER:O	1:A:220:VAL:N	2.46	0.48
1:A:429:LYS:HD3	1:A:429:LYS:N	2.24	0.48
1:A:549:LEU:N	1:A:549:LEU:CD1	2.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:943:ALA:O	1:A:944:MET:C	2.54	0.48
1:A:995:ALA:C	1:A:997:ALA:N	2.69	0.48
1:A:1004:ILE:C	1:A:1004:ILE:CD1	2.70	0.48
1:A:1037:VAL:HA	1:A:1049:LEU:O	2.12	0.48
1:A:1091:PHE:CD1	1:A:1096:GLU:CA	2.91	0.48
1:A:1117:ILE:CG1	1:A:1118:LEU:N	2.76	0.48
1:A:1206:SER:O	1:A:1207:GLU:C	2.54	0.48
1:A:1213:ALA:C	1:A:1215:ASP:N	2.71	0.48
1:B:33:VAL:O	1:B:36:LEU:HG	2.13	0.48
1:B:221:LEU:HD11	1:B:309:ALA:HB3	1.95	0.48
1:B:541:LEU:O	1:B:541:LEU:HD13	2.13	0.48
1:B:749:ASN:OD1	1:B:750:LEU:N	2.46	0.48
1:B:821:VAL:C	1:B:823:GLY:N	2.70	0.48
1:B:842:GLY:HA2	1:B:979:PHE:CE2	2.48	0.48
1:B:872:MET:HE2	1:B:872:MET:O	2.13	0.48
1:B:956:GLY:O	1:B:957:ALA:C	2.56	0.48
1:A:34:SER:CA	1:A:38:MET:HB2	2.31	0.48
1:A:41:TYR:CG	1:A:42:ALA:N	2.78	0.48
1:A:386:GLY:CA	1:A:450:ASP:HA	2.30	0.48
1:A:438:ARG:O	1:A:439:LEU:C	2.56	0.48
1:A:462:LEU:HG	1:A:466:ILE:CD1	2.42	0.48
1:A:493:MET:O	1:A:497:GLU:HB2	2.13	0.48
1:A:554:THR:HG23	1:A:555:SER:N	2.27	0.48
1:A:702:THR:C	1:A:704:TRP:N	2.71	0.48
1:A:796:ASP:O	1:A:797:VAL:CB	2.60	0.48
1:A:940:PHE:CD1	1:A:940:PHE:C	2.90	0.48
1:A:1019:THR:OG1	1:A:1101:ASN:N	2.46	0.48
1:A:1064:LEU:CB	1:A:1226:ILE:HG22	2.43	0.48
1:A:1079:LEU:C	1:A:1081:ARG:H	2.21	0.48
1:B:36:LEU:HD12	1:B:37:THR:N	2.28	0.48
1:B:300:LEU:HD12	1:B:766:PHE:CZ	2.48	0.48
1:B:419:VAL:CG1	1:B:579:ILE:HG12	2.43	0.48
1:B:519:LEU:HD22	1:B:526:GLN:HE22	1.78	0.48
1:B:621:LEU:HD22	1:B:621:LEU:N	2.28	0.48
1:B:830:ALA:HB1	1:B:990:PHE:CD2	2.42	0.48
1:B:889:SER:O	1:B:892:ILE:CG1	2.61	0.48
1:A:160:ASP:OD1	1:A:160:ASP:N	2.46	0.48
1:A:557:LEU:CD2	1:A:565:VAL:HG21	2.43	0.48
1:A:579:ILE:HG23	1:A:579:ILE:O	2.12	0.48
1:A:750:LEU:HD23	1:A:753:LEU:HD23	1.95	0.48
1:A:808:GLY:O	1:A:810:LEU:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:878:GLN:HA	1:A:881:LYS:HG2	1.95	0.48
1:A:946:TYR:O	1:A:947:PHE:C	2.56	0.48
1:A:1039:ASN:HB2	1:A:1047:PRO:HG3	1.96	0.48
1:A:1076:VAL:HG13	1:A:1194:LEU:HD13	1.96	0.48
1:A:1236:ALA:HB3	1:A:1239:ILE:HG13	1.95	0.48
1:B:129:VAL:CG2	1:B:938:PHE:CD1	2.92	0.48
1:B:338:ALA:O	1:B:339:PHE:C	2.54	0.48
1:B:404:GLN:O	1:B:405:ILE:C	2.56	0.48
1:B:796:ASP:OD1	1:B:1014:ILE:HG21	2.13	0.48
1:B:812:THR:HG22	1:B:816:ASN:HD22	1.79	0.48
1:B:838:ASN:ND2	1:B:839:LEU:N	2.61	0.48
1:B:842:GLY:O	1:B:846:SER:OG	2.22	0.48
1:B:1091:PHE:CD1	1:B:1095:LYS:C	2.91	0.48
1:B:1117:ILE:HG13	1:B:1118:LEU:N	2.27	0.48
1:A:57:ALA:HB1	1:A:190:PHE:CB	2.43	0.48
1:A:111:ALA:O	1:A:114:TYR:CD1	2.67	0.48
1:A:129:VAL:CG2	1:A:938:PHE:CD1	2.94	0.48
1:A:150:ALA:O	1:A:151:ILE:C	2.55	0.48
1:A:201:ILE:CG2	1:A:202:ILE:N	2.77	0.48
1:A:216:ALA:O	1:A:217:ILE:C	2.56	0.48
1:A:411:LEU:HD23	1:A:412:LYS:C	2.39	0.48
1:A:706:TYR:O	1:A:706:TYR:CD1	2.67	0.48
1:A:783:ARG:O	1:A:787:MET:HG3	2.14	0.48
1:A:799:TRP:CD1	1:A:800:PHE:HE1	2.25	0.48
1:A:861:VAL:HB	1:A:862:PRO:HD3	1.94	0.48
1:A:1091:PHE:C	1:A:1093:ASP:N	2.70	0.48
1:B:187:GLY:O	1:B:190:PHE:HB3	2.13	0.48
1:B:268:LYS:O	1:B:269:GLU:C	2.57	0.48
1:B:722:PRO:O	1:B:725:SER:HB2	2.12	0.48
1:B:795:GLN:O	1:B:796:ASP:CG	2.55	0.48
1:B:1172:LEU:HD22	1:B:1176:GLN:HE21	1.79	0.48
1:A:207:GLY:O	1:A:208:TRP:C	2.56	0.48
1:A:508:PHE:HE2	1:A:534:ARG:HD2	1.79	0.48
1:A:608:HIS:HD1	1:A:618:TYR:HE2	1.61	0.48
1:A:708:VAL:O	1:A:711:ILE:CG2	2.62	0.48
1:A:881:LYS:HG3	1:A:882:ASP:N	2.29	0.48
1:A:900:PHE:CD1	1:A:900:PHE:O	2.66	0.48
1:A:900:PHE:O	1:A:900:PHE:HD1	1.96	0.48
1:B:765:THR:CG2	1:B:766:PHE:H	2.26	0.48
1:B:789:PHE:HD2	1:B:789:PHE:O	1.95	0.48
1:A:133:CYS:SG	1:A:931:ALA:CA	2.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:LYS:O	1:A:143:ILE:C	2.56	0.48
1:A:144:ARG:NH1	1:A:175:VAL:HG11	2.28	0.48
1:A:183:GLY:CA	1:A:186:ILE:HG23	2.44	0.48
1:A:190:PHE:CD1	1:A:190:PHE:C	2.92	0.48
1:A:315:SER:CA	1:A:318:ILE:HG22	2.42	0.48
1:A:760:ILE:N	1:A:760:ILE:HD12	2.28	0.48
1:A:791:SER:CB	1:A:1010:LYS:HZ1	2.27	0.48
1:A:970:VAL:O	1:A:973:VAL:HB	2.12	0.48
1:A:1058:LYS:HA	1:A:1222:THR:OG1	2.13	0.48
1:A:1137:SER:HB3	1:A:1140:GLU:HB2	1.93	0.48
1:B:35:VAL:HG23	1:B:36:LEU:HD23	1.95	0.48
1:B:197:PHE:O	1:B:201:ILE:HB	2.13	0.48
1:B:252:GLU:N	1:B:252:GLU:CD	2.72	0.48
1:B:291:ALA:O	1:B:295:MET:N	2.46	0.48
1:B:788:VAL:CG2	1:B:1004:ILE:HG12	2.44	0.48
1:B:1238:LEU:C	1:B:1239:ILE:HD12	2.39	0.48
1:A:238:LYS:HZ1	1:A:242:ALA:HB2	1.77	0.48
1:A:265:GLY:O	1:A:267:LYS:HE3	2.14	0.48
1:A:550:LEU:HD23	1:A:569:LEU:HD13	1.95	0.48
1:A:837:ALA:HB1	1:A:982:MET:CE	2.44	0.48
1:B:133:CYS:CB	1:B:931:ALA:CB	2.91	0.48
1:B:215:LEU:O	1:B:219:PRO:CD	2.61	0.48
1:B:358:ALA:O	1:B:362:PHE:HB2	2.14	0.48
1:B:387:ASN:ND2	1:B:415:SER:N	2.62	0.48
1:B:436:MET:HG3	1:B:436:MET:O	2.13	0.48
1:B:802:ASP:OD1	1:B:1041:PRO:O	2.32	0.48
1:B:894:THR:O	1:B:895:GLU:C	2.56	0.48
1:B:1123:ILE:HD12	1:B:1123:ILE:C	2.39	0.48
1:A:213:VAL:O	1:A:217:ILE:CD1	2.62	0.48
1:A:232:LEU:CB	1:A:295:MET:SD	3.02	0.48
1:A:252:GLU:O	1:A:254:LEU:HD21	2.13	0.48
1:A:267:LYS:C	1:A:790:LYS:HE2	2.39	0.48
1:A:445:GLY:O	1:A:446:MET:HB3	2.13	0.48
1:A:523:ARG:HD3	1:A:524:GLY:N	2.13	0.48
1:A:925:ARG:CZ	1:B:519:LEU:HD12	2.43	0.48
1:A:1062:LEU:CD1	1:A:1224:ILE:HG23	2.35	0.48
1:A:1118:LEU:N	1:A:1118:LEU:CD1	2.67	0.48
1:A:1144:ALA:O	1:A:1145:ALA:C	2.56	0.48
1:A:1209:VAL:HG13	1:A:1210:VAL:N	2.29	0.48
1:B:253:VAL:CA	1:B:254:LEU:HD22	2.43	0.48
1:B:860:ILE:O	1:B:864:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1234:GLN:HG2	1:B:1253:HIS:NE2	2.28	0.48
1:A:151:ILE:O	1:A:153:ASN:N	2.47	0.48
1:A:302:ILE:HA	1:A:305:SER:HB3	1.95	0.48
1:A:303:TYR:O	1:A:306:TYR:N	2.46	0.48
1:A:459:VAL:C	1:A:461:TYR:N	2.71	0.48
1:A:478:THR:HG21	1:A:482:GLU:CB	2.44	0.48
1:A:849:TYR:HB3	1:A:854:THR:OG1	2.14	0.48
1:A:905:SER:CB	1:A:908:ARG:NH1	2.71	0.48
1:A:950:ALA:O	1:A:951:ALA:C	2.56	0.48
1:A:1153:PHE:CZ	1:A:1176:GLN:CG	2.93	0.48
1:B:70:ILE:O	1:B:71:PHE:C	2.57	0.48
1:B:225:ALA:HB2	1:B:302:ILE:CG2	2.44	0.48
1:B:303:TYR:CE2	1:B:306:TYR:CE2	3.02	0.48
1:B:397:TYR:HE2	1:B:434:GLN:HE22	1.60	0.48
1:B:478:THR:CG2	1:B:482:GLU:HB2	2.44	0.48
1:B:554:THR:O	1:B:555:SER:O	2.31	0.48
1:B:748:SER:O	1:B:751:PHE:HD1	1.97	0.48
1:B:795:GLN:HG2	1:B:1010:LYS:HB3	1.95	0.48
1:B:964:LEU:C	1:B:966:THR:N	2.65	0.48
1:B:1056:VAL:HG21	1:B:1062:LEU:HB2	1.96	0.48
1:B:1075:VAL:O	1:B:1076:VAL:C	2.56	0.48
1:B:1195:LEU:HD23	1:B:1225:VAL:HB	1.95	0.48
1:A:36:LEU:O	1:A:39:PHE:HB3	2.14	0.48
1:A:97:ARG:O	1:A:101:ALA:HB2	2.13	0.48
1:A:251:GLU:O	1:A:252:GLU:HB2	2.13	0.48
1:A:312:TYR:C	1:A:314:THR:N	2.71	0.48
1:A:426:GLY:O	1:A:427:CYS:HB2	2.13	0.48
1:A:551:ASP:O	1:A:552:GLU:HB2	2.14	0.48
1:A:693:PHE:C	1:A:695:ARG:H	2.21	0.48
1:A:782:LYS:C	1:A:784:LEU:H	2.22	0.48
1:A:857:LEU:CD1	1:A:977:ILE:HG12	2.41	0.48
1:A:1090:VAL:HG22	1:A:1097:ILE:CG1	2.43	0.48
1:A:1090:VAL:HG23	1:A:1091:PHE:N	2.28	0.48
1:A:1096:GLU:O	1:A:1099:GLN:C	2.57	0.48
1:A:1164:ARG:HG2	1:A:1166:GLY:H	1.79	0.48
1:B:60:HIS:CD2	1:B:190:PHE:CE1	3.01	0.48
1:B:228:TRP:CE3	1:B:295:MET:HE1	2.49	0.48
1:B:438:ARG:O	1:B:439:LEU:C	2.57	0.48
1:B:551:ASP:C	1:B:553:ALA:N	2.71	0.48
1:B:970:VAL:O	1:B:973:VAL:HB	2.13	0.48
1:B:1132:ASN:C	1:B:1134:ARG:N	2.71	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1144:ALA:O	1:B:1145:ALA:C	2.56	0.48
1:A:208:TRP:O	1:A:209:LYS:CB	2.62	0.47
1:A:213:VAL:O	1:A:217:ILE:CG1	2.59	0.47
1:A:361:VAL:CG1	1:A:364:ILE:HD12	2.40	0.47
1:A:375:SER:OG	1:A:906:LEU:HD11	2.14	0.47
1:A:439:LEU:HD12	1:A:440:TYR:CE1	2.49	0.47
1:A:551:ASP:C	1:A:553:ALA:N	2.71	0.47
1:A:701:SER:O	1:A:704:TRP:HB3	2.13	0.47
1:A:798:SER:N	1:A:801:ASP:HB2	2.29	0.47
1:A:1013:GLU:OE2	1:A:1014:ILE:HD13	2.14	0.47
1:A:1080:GLU:OE1	1:A:1080:GLU:HA	2.14	0.47
1:A:1109:LEU:N	1:A:1109:LEU:CD2	2.77	0.47
1:B:88:SER:C	1:B:90:ASN:H	2.20	0.47
1:B:118:GLY:HA2	1:B:946:TYR:CD1	2.49	0.47
1:B:186:ILE:C	1:B:186:ILE:HD12	2.39	0.47
1:B:324:ILE:CD1	1:B:326:GLN:H	2.26	0.47
1:B:332:PHE:HZ	1:B:974:PHE:CE2	2.32	0.47
1:B:411:LEU:CD2	1:B:412:LYS:N	2.60	0.47
1:B:792:MET:SD	1:B:814:LEU:HD21	2.54	0.47
1:B:888:GLY:O	1:B:892:ILE:HG12	2.12	0.47
1:B:1076:VAL:HG12	1:B:1194:LEU:HD13	1.95	0.47
1:A:68:MET:HA	1:A:68:MET:CE	2.44	0.47
1:A:245:LYS:HA	1:A:245:LYS:HZ2	1.78	0.47
1:A:249:VAL:O	1:A:249:VAL:HG12	2.14	0.47
1:A:405:ILE:HD12	1:A:405:ILE:N	2.12	0.47
1:A:457:ILE:HD11	1:A:462:LEU:HD12	1.96	0.47
1:A:836:ILE:O	1:A:837:ALA:C	2.56	0.47
1:A:1104:TRP:O	1:A:1107:ALA:HB3	2.14	0.47
1:B:118:GLY:O	1:B:119:ALA:C	2.55	0.47
1:B:248:ALA:O	1:B:251:GLU:HB2	2.14	0.47
1:B:360:GLU:HA	1:B:363:LYS:HE2	1.95	0.47
1:B:368:LYS:N	1:B:369:PRO:HD3	2.29	0.47
1:B:376:LYS:HD2	1:B:376:LYS:N	2.26	0.47
1:B:580:VAL:O	1:B:580:VAL:HG13	2.13	0.47
1:B:830:ALA:CB	1:B:990:PHE:HD2	2.18	0.47
1:B:919:SER:O	1:B:920:LEU:C	2.57	0.47
1:B:1030:ASN:OD1	1:B:1057:LYS:CA	2.62	0.47
1:B:1081:ARG:HG2	1:B:1081:ARG:O	2.14	0.47
1:A:118:GLY:HA3	1:A:946:TYR:CD1	2.49	0.47
1:A:129:VAL:HG21	1:A:938:PHE:HD1	1.78	0.47
1:A:162:HIS:O	1:A:164:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:361:VAL:HA	1:A:364:ILE:CG1	2.45	0.47
1:A:374:PHE:CZ	1:A:376:LYS:HB2	2.49	0.47
1:A:474:VAL:HG23	1:A:523:ARG:NH1	2.29	0.47
1:A:710:GLY:O	1:A:711:ILE:C	2.54	0.47
1:A:773:PHE:CD1	1:A:774:GLY:N	2.82	0.47
1:A:922:ILE:CB	1:A:923:PRO:HD3	2.44	0.47
1:A:956:GLY:O	1:A:957:ALA:C	2.57	0.47
1:A:1154:ILE:HG21	1:A:1161:TYR:CZ	2.48	0.47
1:A:1267:VAL:HG12	1:A:1270:GLN:OE1	2.15	0.47
1:B:35:VAL:CG2	1:B:355:ARG:HH21	2.26	0.47
1:B:99:MET:N	1:B:99:MET:SD	2.87	0.47
1:B:155:GLU:O	1:B:157:GLY:N	2.47	0.47
1:B:240:LEU:HD23	1:B:285:ILE:HG13	1.95	0.47
1:B:267:LYS:O	1:B:790:LYS:CE	2.62	0.47
1:B:399:SER:O	1:B:402:GLU:OE2	2.31	0.47
1:B:493:MET:N	1:B:496:ILE:HD13	2.28	0.47
1:B:579:ILE:CG2	1:B:579:ILE:O	2.62	0.47
1:B:755:PHE:CG	1:B:756:LEU:N	2.82	0.47
1:B:880:LEU:O	1:B:883:LYS:HB2	2.15	0.47
1:B:993:ASP:C	1:B:995:ALA:N	2.73	0.47
1:B:1092:LEU:HD23	1:B:1092:LEU:C	2.40	0.47
1:B:1264:PHE:O	1:B:1267:VAL:HG23	2.15	0.47
1:A:585:LEU:HD22	1:A:585:LEU:N	2.29	0.47
1:A:690:PRO:HB2	1:A:1006:ARG:NH2	2.29	0.47
1:A:813:ARG:O	1:A:817:ASP:HB2	2.13	0.47
1:A:1011:THR:O	1:A:1012:PRO:C	2.57	0.47
1:A:1166:GLY:O	1:A:1167:ASP:HB3	2.15	0.47
1:A:1212:GLU:O	1:A:1215:ASP:HB3	2.14	0.47
1:A:1263:TYR:O	1:A:1267:VAL:CG2	2.63	0.47
1:B:44:TRP:C	1:B:46:ASP:N	2.72	0.47
1:B:114:TYR:HD2	1:B:946:TYR:CE2	2.31	0.47
1:B:311:TRP:O	1:B:314:THR:HB	2.15	0.47
1:B:318:ILE:CD1	1:B:325:GLY:N	2.69	0.47
1:B:570:ASP:C	1:B:572:ALA:H	2.22	0.47
1:B:894:THR:O	1:B:898:GLU:CB	2.63	0.47
1:B:940:PHE:C	1:B:940:PHE:CD1	2.92	0.47
1:B:1040:TYR:HD1	1:B:1040:TYR:H	1.62	0.47
1:B:1058:LYS:HA	1:B:1222:THR:OG1	2.15	0.47
1:A:114:TYR:CG	1:A:115:THR:N	2.81	0.47
1:A:148:PHE:CG	1:A:913:GLU:OE2	2.68	0.47
1:A:217:ILE:CG2	1:A:309:ALA:HB1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:436:MET:HE1	1:A:449:ILE:CD1	2.43	0.47
1:A:621:LEU:HD22	1:A:621:LEU:H	1.80	0.47
1:A:872:MET:HE2	1:A:872:MET:O	2.13	0.47
1:A:921:GLN:OE1	1:B:479:THR:HG21	2.14	0.47
1:A:927:ALA:O	1:A:930:LYS:HG2	2.15	0.47
1:A:1016:SER:C	1:A:1017:TYR:CG	2.90	0.47
1:B:135:ALA:O	1:B:137:GLY:N	2.47	0.47
1:B:202:ILE:C	1:B:204:PHE:H	2.21	0.47
1:B:210:LEU:C	1:B:212:LEU:H	2.23	0.47
1:B:730:LYS:CD	1:B:750:LEU:HD21	2.43	0.47
1:B:1023:LYS:O	1:B:1025:ASN:N	2.48	0.47
1:B:1056:VAL:HG23	1:B:1062:LEU:HB2	1.94	0.47
1:B:1112:VAL:HG11	1:B:1182:ILE:CD1	2.45	0.47
1:B:1118:LEU:HD21	1:B:1180:ILE:HD12	1.96	0.47
1:B:1204:THR:CG2	1:B:1205:GLU:N	2.45	0.47
1:A:58:ILE:HD12	1:A:58:ILE:N	2.27	0.47
1:A:208:TRP:HB3	1:A:209:LYS:HZ3	1.77	0.47
1:A:290:THR:HA	1:A:293:ILE:CG1	2.45	0.47
1:A:372:ASP:OD2	1:A:372:ASP:C	2.57	0.47
1:A:534:ARG:O	1:A:535:ILE:C	2.58	0.47
1:A:797:VAL:C	1:A:799:TRP:N	2.71	0.47
1:A:1079:LEU:HD23	1:A:1194:LEU:HD21	1.96	0.47
1:A:1101:ASN:C	1:A:1101:ASN:OD1	2.58	0.47
1:B:74:MET:HG3	1:B:75:THR:N	2.30	0.47
1:B:142:LYS:O	1:B:143:ILE:C	2.58	0.47
1:B:285:ILE:O	1:B:285:ILE:CD1	2.62	0.47
1:B:318:ILE:CG2	1:B:735:PHE:CZ	2.96	0.47
1:B:327:VAL:HG12	1:B:331:PHE:CE1	2.49	0.47
1:B:372:ASP:C	1:B:372:ASP:OD2	2.58	0.47
1:B:489:GLU:H	1:B:489:GLU:CD	2.21	0.47
1:B:509:ILE:CD1	1:B:510:MET:HG2	2.44	0.47
1:B:585:LEU:HA	1:B:588:VAL:HG21	1.97	0.47
1:B:591:ALA:HB3	1:B:594:ILE:HD11	1.96	0.47
1:B:1005:ILE:HA	1:B:1008:ILE:CG2	2.43	0.47
1:B:1064:LEU:HB3	1:B:1226:ILE:CB	2.44	0.47
1:B:1091:PHE:CZ	1:B:1096:GLU:HG2	2.48	0.47
1:A:157:GLY:C	1:A:159:PHE:N	2.72	0.47
1:A:168:ASN:HB3	1:A:897:ILE:HD11	1.97	0.47
1:A:207:GLY:HA2	1:A:210:LEU:HB3	1.97	0.47
1:A:239:GLU:HB3	1:A:285:ILE:HA	1.97	0.47
1:A:285:ILE:O	1:A:289:ILE:CG1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:290:THR:HA	1:A:293:ILE:CB	2.44	0.47
1:A:295:MET:O	1:A:296:GLY:C	2.57	0.47
1:A:398:PRO:HD3	1:A:440:TYR:HE2	1.79	0.47
1:A:404:GLN:CD	1:A:404:GLN:H	2.21	0.47
1:A:519:LEU:N	1:A:519:LEU:CD1	2.78	0.47
1:A:560:GLU:OE2	1:A:560:GLU:C	2.57	0.47
1:A:607:ASN:CG	1:A:608:HIS:N	2.72	0.47
1:A:615:LYS:HA	1:A:619:PHE:CD2	2.49	0.47
1:A:707:PHE:CZ	1:A:775:LYS:NZ	2.81	0.47
1:A:709:VAL:O	1:A:712:PHE:CB	2.63	0.47
1:A:722:PRO:HA	1:A:979:PHE:HE1	1.78	0.47
1:A:730:LYS:HG2	1:A:750:LEU:CD1	2.44	0.47
1:A:974:PHE:HA	1:A:977:ILE:HD12	1.96	0.47
1:A:1096:GLU:OE1	1:A:1098:LYS:HG2	2.14	0.47
1:B:35:VAL:HA	1:B:359:TYR:HD2	1.67	0.47
1:B:44:TRP:CG	1:B:45:LEU:HD22	2.49	0.47
1:B:58:ILE:N	1:B:58:ILE:CD1	2.78	0.47
1:B:69:LEU:HA	1:B:329:THR:HG23	1.96	0.47
1:B:75:THR:O	1:B:78:PHE:HB3	2.14	0.47
1:B:88:SER:C	1:B:90:ASN:N	2.72	0.47
1:B:177:LYS:O	1:B:354:ALA:HB2	2.15	0.47
1:B:207:GLY:CA	1:B:211:THR:HB	2.45	0.47
1:B:355:ARG:O	1:B:356:GLY:C	2.58	0.47
1:B:368:LYS:O	1:B:369:PRO:C	2.56	0.47
1:B:511:LYS:O	1:B:512:LEU:C	2.57	0.47
1:B:548:LEU:C	1:B:549:LEU:HD12	2.40	0.47
1:B:607:ASN:HB3	1:B:610:GLU:CG	2.44	0.47
1:B:689:PRO:HG2	1:B:690:PRO:CD	2.45	0.47
1:B:727:ILE:CG2	1:B:728:PHE:N	2.77	0.47
1:B:739:GLY:O	1:B:743:THR:HG23	2.15	0.47
1:B:787:MET:SD	1:B:1008:ILE:HD11	2.54	0.47
1:B:802:ASP:OD2	1:B:1041:PRO:O	2.32	0.47
1:B:816:ASN:O	1:B:819:ALA:HB3	2.14	0.47
1:B:964:LEU:CD1	1:B:966:THR:HG23	2.45	0.47
1:B:1060:GLN:CB	1:B:1237:ASP:OD1	2.58	0.47
1:B:1063:ALA:HB3	1:B:1239:ILE:HG13	1.96	0.47
1:B:1137:SER:O	1:B:1141:ILE:HG23	2.15	0.47
1:A:87:ASN:O	1:A:88:SER:C	2.57	0.47
1:A:218:SER:O	1:A:219:PRO:C	2.56	0.47
1:A:268:LYS:O	1:A:268:LYS:CD	2.49	0.47
1:A:286:LYS:O	1:A:290:THR:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:288:ALA:CA	1:A:291:ALA:CB	2.85	0.47
1:A:409:LEU:HD22	1:A:409:LEU:C	2.37	0.47
1:A:439:LEU:HB3	1:A:440:TYR:HD1	1.80	0.47
1:A:711:ILE:HD12	1:A:832:ILE:CD1	2.44	0.47
1:A:900:PHE:C	1:A:902:THR:HG22	2.40	0.47
1:A:918:GLN:O	1:A:919:SER:C	2.56	0.47
1:A:1218:ARG:CG	1:A:1219:GLU:N	2.76	0.47
1:B:711:ILE:CG1	1:B:832:ILE:HG21	2.38	0.47
1:B:715:ILE:HG23	1:B:836:ILE:HG13	1.95	0.47
1:B:833:PHE:O	1:B:834:GLN:C	2.57	0.47
1:B:1049:LEU:HD21	1:B:1074:THR:HB	1.96	0.47
1:B:1109:LEU:CD2	1:B:1109:LEU:N	2.77	0.47
1:B:1250:HIS:C	1:B:1250:HIS:ND1	2.73	0.47
1:A:39:PHE:CD2	1:A:355:ARG:HA	2.49	0.47
1:A:83:ASN:HD22	1:A:83:ASN:HA	1.58	0.47
1:A:114:TYR:CB	1:A:950:ALA:CB	2.91	0.47
1:A:117:ILE:O	1:A:120:GLY:N	2.48	0.47
1:A:243:TYR:C	1:A:243:TYR:CD2	2.93	0.47
1:A:309:ALA:O	1:A:310:PHE:O	2.33	0.47
1:A:561:SER:O	1:A:563:ALA:N	2.48	0.47
1:A:799:TRP:HA	1:A:799:TRP:CE3	2.50	0.47
1:A:884:LYS:O	1:A:887:GLU:HG2	2.15	0.47
1:A:1175:GLY:CA	1:A:1202:LEU:HD11	2.45	0.47
1:A:1213:ALA:O	1:A:1215:ASP:N	2.48	0.47
1:B:206:ARG:C	1:B:211:THR:HB	2.39	0.47
1:B:214:ILE:CD1	1:B:330:VAL:HG12	2.45	0.47
1:B:438:ARG:NH1	1:B:455:ARG:HA	2.30	0.47
1:B:594:ILE:HG22	1:B:595:ALA:N	2.30	0.47
1:B:955:PHE:O	1:B:958:TYR:CB	2.63	0.47
1:A:417:GLN:O	1:A:418:THR:HG22	2.15	0.47
1:A:496:ILE:O	1:A:497:GLU:C	2.57	0.47
1:A:523:ARG:C	1:A:525:ALA:H	2.22	0.47
1:A:625:GLN:O	1:A:626:THR:CB	2.63	0.47
1:A:769:GLN:O	1:A:773:PHE:CD2	2.67	0.47
1:A:790:LYS:C	1:A:794:ARG:HH21	2.24	0.47
1:B:158:TRP:CZ2	1:B:900:PHE:CB	2.97	0.47
1:B:252:GLU:O	1:B:254:LEU:CD2	2.63	0.47
1:B:431:THR:O	1:B:435:LEU:CD2	2.63	0.47
1:B:856:LEU:CD2	1:B:952:ALA:HA	2.45	0.47
1:A:143:ILE:O	1:A:144:ARG:C	2.58	0.46
1:A:198:GLY:C	1:A:200:PHE:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:297:ALA:CB	1:A:763:PHE:HD2	2.28	0.46
1:A:306:TYR:HE1	1:A:310:PHE:CE1	2.34	0.46
1:A:311:TRP:CE3	1:A:311:TRP:HA	2.50	0.46
1:A:419:VAL:CG1	1:A:579:ILE:HG12	2.46	0.46
1:A:422:VAL:O	1:A:422:VAL:HG23	2.15	0.46
1:A:820:GLN:HG3	1:A:1000:SER:HB3	1.97	0.46
1:A:1040:TYR:O	1:A:1041:PRO:C	2.58	0.46
1:A:1042:THR:O	1:A:1044:PRO:CD	2.63	0.46
1:A:1081:ARG:O	1:A:1081:ARG:HG2	2.15	0.46
1:A:1104:TRP:O	1:A:1107:ALA:CB	2.63	0.46
1:A:1197:GLU:OE2	1:A:1228:HIS:HB2	2.15	0.46
1:B:71:PHE:HA	1:B:74:MET:CE	2.30	0.46
1:B:431:THR:O	1:B:432:THR:C	2.55	0.46
1:B:699:LEU:O	1:B:700:ASN:O	2.33	0.46
1:B:799:TRP:HA	1:B:799:TRP:CE3	2.49	0.46
1:B:815:ALA:O	1:B:816:ASN:C	2.58	0.46
1:B:1203:ASP:OD2	1:B:1203:ASP:C	2.58	0.46
1:A:197:PHE:O	1:A:201:ILE:HB	2.15	0.46
1:A:248:ALA:C	1:A:250:ALA:N	2.74	0.46
1:A:260:VAL:HG12	1:A:260:VAL:O	2.15	0.46
1:A:382:ASP:C	1:A:384:ILE:N	2.71	0.46
1:A:438:ARG:HH12	1:A:455:ARG:HA	1.80	0.46
1:A:721:GLN:O	1:A:722:PRO:C	2.55	0.46
1:A:853:LEU:O	1:A:856:LEU:HB3	2.15	0.46
1:A:1076:VAL:O	1:A:1077:GLN:C	2.59	0.46
1:A:1099:GLN:O	1:A:1099:GLN:CD	2.58	0.46
1:A:1148:ALA:O	1:A:1149:ASN:CB	2.62	0.46
1:B:102:LYS:HE3	1:B:102:LYS:CA	2.42	0.46
1:B:257:ILE:HD11	1:B:261:ILE:HG12	1.97	0.46
1:B:374:PHE:CD1	1:B:375:SER:N	2.81	0.46
1:B:549:LEU:N	1:B:549:LEU:CD1	2.77	0.46
1:B:697:LEU:C	1:B:697:LEU:CD1	2.88	0.46
1:B:727:ILE:HG21	1:B:754:LEU:HG	1.98	0.46
1:B:803:PRO:HB2	1:B:805:ASN:H	1.80	0.46
1:B:855:LEU:HA	1:B:858:LEU:CD2	2.44	0.46
1:B:856:LEU:HD21	1:B:952:ALA:HA	1.97	0.46
1:B:1179:ARG:NH2	1:B:1209:VAL:HG11	2.30	0.46
1:A:58:ILE:N	1:A:58:ILE:CD1	2.79	0.46
1:A:106:GLU:CD	1:A:109:THR:HB	2.40	0.46
1:A:157:GLY:HA2	1:A:160:ASP:OD2	2.14	0.46
1:A:270:LEU:H	1:A:270:LEU:CD2	2.12	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:405:ILE:H	1:A:405:ILE:CD1	2.06	0.46
1:A:492:THR:H	1:A:495:GLU:CD	2.23	0.46
1:A:498:LYS:NZ	1:A:502:GLU:CD	2.72	0.46
1:A:787:MET:HB3	1:A:1008:ILE:HD12	1.97	0.46
1:A:1010:LYS:HB2	1:A:1011:THR:H	1.60	0.46
1:A:1033:PHE:O	1:A:1053:SER:HA	2.14	0.46
1:A:1056:VAL:O	1:A:1056:VAL:HG13	2.14	0.46
1:A:1090:VAL:C	1:A:1091:PHE:CD1	2.92	0.46
1:B:45:LEU:H	1:B:45:LEU:CD2	2.28	0.46
1:B:128:GLN:HB2	1:B:186:ILE:HD13	1.97	0.46
1:B:267:LYS:HA	1:B:270:LEU:HD11	1.97	0.46
1:B:278:GLU:O	1:B:279:GLU:C	2.56	0.46
1:B:777:GLY:HA3	1:B:822:LYS:HE3	1.97	0.46
1:B:788:VAL:HG21	1:B:1004:ILE:HG12	1.97	0.46
1:B:833:PHE:CD1	1:B:833:PHE:C	2.92	0.46
1:B:957:ALA:O	1:B:958:TYR:C	2.58	0.46
1:B:1135:VAL:HG22	1:B:1136:VAL:N	2.31	0.46
1:A:141:HIS:CE1	1:A:924:TYR:CG	3.04	0.46
1:A:151:ILE:C	1:A:153:ASN:H	2.23	0.46
1:A:195:THR:HG23	1:A:196:PHE:N	2.30	0.46
1:A:795:GLN:HE21	1:A:796:ASP:H	1.62	0.46
1:A:912:PHE:O	1:A:913:GLU:C	2.57	0.46
1:A:955:PHE:O	1:A:956:GLY:C	2.57	0.46
1:A:965:MET:HE2	1:A:965:MET:HA	1.97	0.46
1:A:970:VAL:HA	1:A:973:VAL:HG23	1.96	0.46
1:A:1097:ILE:HD11	1:A:1100:LEU:CD2	2.45	0.46
1:A:1117:ILE:HG13	1:A:1118:LEU:N	2.29	0.46
1:A:1129:TYR:O	1:A:1131:ASP:OD2	2.34	0.46
1:B:165:GLY:O	1:B:166:GLU:C	2.58	0.46
1:B:174:ASP:OD1	1:B:361:VAL:HG21	2.16	0.46
1:B:207:GLY:CA	1:B:211:THR:H	2.29	0.46
1:B:237:ASP:O	1:B:238:LYS:C	2.58	0.46
1:B:385:GLN:NE2	1:B:415:SER:CB	2.78	0.46
1:B:461:TYR:O	1:B:462:LEU:C	2.56	0.46
1:B:596:GLY:O	1:B:602:ILE:HA	2.15	0.46
1:B:689:PRO:CD	1:B:690:PRO:HD2	2.45	0.46
1:B:881:LYS:HG3	1:B:882:ASP:N	2.30	0.46
1:B:898:GLU:O	1:B:901:ARG:NH1	2.49	0.46
1:B:946:TYR:O	1:B:947:PHE:C	2.59	0.46
1:B:1021:GLY:O	1:B:1026:MET:HE2	2.15	0.46
1:B:1023:LYS:HB3	1:B:1026:MET:CG	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1052:LEU:HD21	1:B:1054:LEU:HD21	1.97	0.46
1:B:1258:ALA:HA	1:B:1260:LYS:HZ1	1.78	0.46
1:A:58:ILE:CD1	1:A:58:ILE:H	2.28	0.46
1:A:121:VAL:CG2	1:A:122:LEU:H	2.26	0.46
1:A:183:GLY:HA2	1:A:186:ILE:HG23	1.97	0.46
1:A:239:GLU:C	1:A:285:ILE:HG12	2.41	0.46
1:A:267:LYS:CB	1:A:267:LYS:HZ3	2.25	0.46
1:A:324:ILE:C	1:A:326:GLN:N	2.71	0.46
1:A:334:VAL:HG13	1:A:335:LEU:N	2.30	0.46
1:A:449:ILE:O	1:A:451:GLY:N	2.48	0.46
1:A:545:PRO:HG2	1:A:576:ARG:HD3	1.97	0.46
1:A:585:LEU:H	1:A:585:LEU:CD2	2.29	0.46
1:A:883:LYS:O	1:A:887:GLU:HB3	2.16	0.46
1:A:941:THR:O	1:A:944:MET:HB2	2.15	0.46
1:B:71:PHE:HE1	1:B:328:LEU:HD21	1.81	0.46
1:B:97:ARG:O	1:B:101:ALA:HB2	2.15	0.46
1:B:118:GLY:HA3	1:B:946:TYR:CG	2.50	0.46
1:B:253:VAL:C	1:B:254:LEU:CD2	2.81	0.46
1:B:554:THR:HG23	1:B:555:SER:N	2.30	0.46
1:B:757:ILE:O	1:B:758:LEU:C	2.56	0.46
1:B:897:ILE:HD12	1:B:897:ILE:C	2.41	0.46
1:B:957:ALA:O	1:B:966:THR:HB	2.16	0.46
1:B:1164:ARG:HG2	1:B:1166:GLY:H	1.81	0.46
1:B:1241:VAL:HB	1:B:1249:GLU:HB2	1.96	0.46
1:B:1261:GLY:H	1:B:1264:PHE:CB	2.29	0.46
1:A:69:LEU:O	1:A:72:GLY:N	2.49	0.46
1:A:285:ILE:O	1:A:285:ILE:CD1	2.63	0.46
1:A:376:LYS:HB3	1:A:376:LYS:HE3	1.66	0.46
1:A:561:SER:C	1:A:563:ALA:N	2.72	0.46
1:A:708:VAL:HA	1:A:711:ILE:CG2	2.46	0.46
1:A:725:SER:CB	1:A:975:SER:HB3	2.44	0.46
1:A:829:LEU:C	1:A:831:VAL:H	2.24	0.46
1:A:975:SER:C	1:A:978:VAL:HG12	2.41	0.46
1:A:995:ALA:HB3	1:A:996:LYS:CE	2.45	0.46
1:A:1118:LEU:HD21	1:A:1180:ILE:HD12	1.98	0.46
1:A:1195:LEU:HD13	1:A:1195:LEU:N	2.31	0.46
1:B:148:PHE:CD2	1:B:913:GLU:OE2	2.69	0.46
1:B:162:HIS:C	1:B:164:VAL:N	2.73	0.46
1:B:321:GLU:O	1:B:323:SER:N	2.49	0.46
1:B:393:ILE:CG2	1:B:446:MET:N	2.78	0.46
1:B:445:GLY:O	1:B:446:MET:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:505:ALA:O	1:B:509:ILE:HG13	2.16	0.46
1:B:519:LEU:N	1:B:519:LEU:CD1	2.77	0.46
1:B:741:PRO:O	1:B:742:GLU:CB	2.63	0.46
1:B:799:TRP:HD1	1:B:800:PHE:HE1	1.62	0.46
1:B:904:VAL:HG13	1:B:905:SER:OG	2.16	0.46
1:B:930:LYS:HA	1:B:933:VAL:CG2	2.45	0.46
1:B:1104:TRP:C	1:B:1107:ALA:H	2.21	0.46
1:B:1150:ILE:C	1:B:1154:ILE:HD13	2.40	0.46
1:B:1202:LEU:HG	1:B:1206:SER:HB2	1.97	0.46
1:A:52:VAL:O	1:A:55:LEU:HB3	2.16	0.46
1:A:118:GLY:HA2	1:A:946:TYR:CD1	2.51	0.46
1:A:365:ILE:O	1:A:366:ASP:C	2.58	0.46
1:A:382:ASP:OD2	1:A:382:ASP:N	2.45	0.46
1:A:505:ALA:O	1:A:509:ILE:HG13	2.15	0.46
1:A:579:ILE:CG2	1:A:579:ILE:O	2.64	0.46
1:A:834:GLN:HG3	1:A:835:ASN:H	1.80	0.46
1:A:861:VAL:O	1:A:862:PRO:C	2.56	0.46
1:A:1092:LEU:HD23	1:A:1092:LEU:C	2.40	0.46
1:A:1167:ASP:O	1:A:1168:LYS:HB2	2.16	0.46
1:B:239:GLU:HB3	1:B:285:ILE:HA	1.98	0.46
1:B:257:ILE:HG21	1:B:800:PHE:CE2	2.50	0.46
1:B:286:LYS:O	1:B:290:THR:HG23	2.16	0.46
1:B:375:SER:O	1:B:376:LYS:CG	2.63	0.46
1:B:551:ASP:O	1:B:552:GLU:HB2	2.15	0.46
1:B:565:VAL:O	1:B:569:LEU:HG	2.16	0.46
1:B:732:VAL:CG2	1:B:733:GLY:N	2.78	0.46
1:B:949:TYR:O	1:B:950:ALA:C	2.58	0.46
1:A:149:HIS:CD2	1:A:368:LYS:NZ	2.84	0.46
1:A:202:ILE:O	1:A:204:PHE:N	2.49	0.46
1:A:208:TRP:O	1:A:209:LYS:CE	2.62	0.46
1:A:252:GLU:N	1:A:252:GLU:CD	2.74	0.46
1:A:287:LYS:HA	1:A:290:THR:OG1	2.16	0.46
1:A:289:ILE:O	1:A:291:ALA:N	2.49	0.46
1:A:511:LYS:O	1:A:512:LEU:C	2.57	0.46
1:A:697:LEU:C	1:A:697:LEU:CD1	2.87	0.46
1:A:817:ASP:O	1:A:821:VAL:HG13	2.16	0.46
1:B:36:LEU:CG	1:B:37:THR:N	2.78	0.46
1:B:76:ASP:OD2	1:B:326:GLN:HG2	2.15	0.46
1:B:114:TYR:CD2	1:B:114:TYR:C	2.94	0.46
1:B:114:TYR:CG	1:B:115:THR:N	2.83	0.46
1:B:257:ILE:HG12	1:B:800:PHE:CE2	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:283:LEU:HA	1:B:286:LYS:CB	2.45	0.46
1:B:326:GLN:C	1:B:328:LEU:N	2.66	0.46
1:B:396:SER:OG	1:B:402:GLU:O	2.31	0.46
1:B:437:GLN:C	1:B:439:LEU:H	2.22	0.46
1:B:491:VAL:O	1:B:491:VAL:HG13	2.15	0.46
1:B:585:LEU:HD13	1:B:588:VAL:HG21	1.98	0.46
1:B:820:GLN:O	1:B:823:GLY:N	2.49	0.46
1:B:1020:GLN:HG2	1:B:1021:GLY:H	1.80	0.46
1:A:153:ASN:C	1:A:155:GLU:N	2.73	0.46
1:A:584:ARG:C	1:A:586:SER:N	2.74	0.46
1:A:701:SER:HA	1:A:704:TRP:CB	2.45	0.46
1:A:939:SER:O	1:A:941:THR:N	2.49	0.46
1:A:964:LEU:CD1	1:A:966:THR:HG23	2.46	0.46
1:A:1217:ALA:O	1:A:1221:ARG:HD3	2.16	0.46
1:B:54:THR:O	1:B:55:LEU:C	2.58	0.46
1:B:308:LEU:O	1:B:309:ALA:C	2.58	0.46
1:B:358:ALA:O	1:B:359:TYR:C	2.59	0.46
1:B:749:ASN:O	1:B:750:LEU:C	2.59	0.46
1:B:892:ILE:O	1:B:895:GLU:HB3	2.16	0.46
1:B:924:TYR:O	1:B:927:ALA:HB3	2.15	0.46
1:B:943:ALA:HB1	1:B:947:PHE:HE1	1.80	0.46
1:B:1110:GLY:HA3	1:B:1193:LEU:HD23	1.92	0.46
1:A:45:LEU:H	1:A:45:LEU:CD2	2.28	0.46
1:A:68:MET:O	1:A:69:LEU:C	2.57	0.46
1:A:184:ASP:O	1:A:187:GLY:N	2.49	0.46
1:A:215:LEU:O	1:A:219:PRO:CD	2.64	0.46
1:A:419:VAL:HG13	1:A:579:ILE:HG12	1.98	0.46
1:A:710:GLY:O	1:A:712:PHE:N	2.49	0.46
1:A:713:CYS:SG	1:A:768:LEU:HG	2.56	0.46
1:A:1218:ARG:O	1:A:1220:GLY:N	2.48	0.46
1:B:57:ALA:HB1	1:B:190:PHE:CB	2.44	0.46
1:B:195:THR:HB	1:B:340:SER:CB	2.45	0.46
1:B:208:TRP:N	1:B:211:THR:HG22	2.31	0.46
1:B:248:ALA:C	1:B:250:ALA:N	2.74	0.46
1:B:261:ILE:C	1:B:263:PHE:H	2.22	0.46
1:B:277:LEU:O	1:B:280:ALA:HB3	2.16	0.46
1:B:282:ARG:HB3	1:B:778:GLU:HG2	1.97	0.46
1:B:426:GLY:O	1:B:427:CYS:C	2.59	0.46
1:B:706:TYR:O	1:B:706:TYR:CD1	2.68	0.46
1:B:756:LEU:CD1	1:B:757:ILE:N	2.75	0.46
1:B:813:ARG:O	1:B:817:ASP:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:849:TYR:HE2	1:B:972:LEU:HB3	1.80	0.46
1:B:907:THR:C	1:B:908:ARG:HE	2.24	0.46
1:B:946:TYR:OH	1:B:947:PHE:CZ	2.61	0.46
1:A:414:LYS:H	1:A:414:LYS:CD	2.26	0.45
1:A:500:VAL:HG21	1:A:516:PHE:HZ	1.81	0.45
1:A:715:ILE:HG22	1:A:836:ILE:HG21	1.97	0.45
1:A:935:GLY:O	1:A:936:ILE:C	2.58	0.45
1:A:1020:GLN:NE2	1:A:1022:LEU:N	2.62	0.45
1:A:1097:ILE:CD1	1:A:1100:LEU:HD22	2.44	0.45
1:A:1100:LEU:HD21	1:A:1104:TRP:HZ3	1.81	0.45
1:B:111:ALA:O	1:B:114:TYR:CD1	2.69	0.45
1:B:114:TYR:CB	1:B:950:ALA:HB2	2.45	0.45
1:B:165:GLY:O	1:B:167:LEU:N	2.50	0.45
1:B:243:TYR:C	1:B:243:TYR:CD2	2.93	0.45
1:B:297:ALA:O	1:B:301:LEU:HB3	2.16	0.45
1:B:321:GLU:C	1:B:323:SER:N	2.73	0.45
1:B:425:SER:OG	1:B:598:ASP:C	2.59	0.45
1:B:621:LEU:H	1:B:621:LEU:CD2	2.29	0.45
1:B:729:SER:CB	1:B:971:LEU:HB3	2.47	0.45
1:B:935:GLY:O	1:B:936:ILE:C	2.58	0.45
1:B:1080:GLU:O	1:B:1081:ARG:C	2.59	0.45
1:B:1157:LEU:HD22	1:B:1157:LEU:H	1.81	0.45
1:A:60:HIS:CD2	1:A:128:GLN:OE1	2.69	0.45
1:A:128:GLN:HB2	1:A:186:ILE:HD13	1.97	0.45
1:A:288:ALA:O	1:A:292:ASN:N	2.50	0.45
1:A:305:SER:O	1:A:306:TYR:C	2.59	0.45
1:A:388:LEU:HD11	1:A:547:ILE:CD1	2.44	0.45
1:A:706:TYR:O	1:A:707:PHE:CG	2.69	0.45
1:A:721:GLN:CB	1:A:982:MET:HE3	2.46	0.45
1:A:756:LEU:HA	1:A:760:ILE:HD13	1.98	0.45
1:A:762:SER:O	1:A:765:THR:N	2.48	0.45
1:A:1009:GLU:O	1:A:1010:LYS:HD2	2.15	0.45
1:A:1217:ALA:O	1:A:1221:ARG:CD	2.65	0.45
1:B:218:SER:O	1:B:220:VAL:N	2.49	0.45
1:B:614:GLU:O	1:B:615:LYS:HB2	2.15	0.45
1:B:728:PHE:O	1:B:729:SER:C	2.59	0.45
1:B:817:ASP:HA	1:B:820:GLN:HG3	1.97	0.45
1:B:911:LYS:NZ	1:B:915:MET:HE3	2.31	0.45
1:B:916:TYR:O	1:B:920:LEU:HD23	2.16	0.45
1:B:943:ALA:HB1	1:B:947:PHE:CE1	2.51	0.45
1:B:1109:LEU:CG	1:B:1109:LEU:O	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1264:PHE:O	1:B:1267:VAL:N	2.49	0.45
1:A:210:LEU:C	1:A:210:LEU:HD13	2.42	0.45
1:A:235:PHE:O	1:A:239:GLU:HG2	2.16	0.45
1:A:267:LYS:CA	1:A:270:LEU:HD11	2.25	0.45
1:A:550:LEU:CD2	1:A:569:LEU:HD22	2.45	0.45
1:A:872:MET:CE	1:A:873:LYS:HA	2.46	0.45
1:A:885:GLU:HB3	1:A:923:PRO:CG	2.42	0.45
1:A:909:GLU:O	1:A:910:GLN:C	2.59	0.45
1:A:964:LEU:C	1:A:966:THR:N	2.74	0.45
1:A:1028:GLU:CB	1:A:1093:ASP:OD1	2.62	0.45
1:A:1049:LEU:HD21	1:A:1074:THR:HB	1.97	0.45
1:A:1122:SER:HA	1:A:1164:ARG:CA	2.27	0.45
1:B:207:GLY:O	1:B:209:LYS:N	2.48	0.45
1:B:295:MET:O	1:B:296:GLY:C	2.56	0.45
1:B:306:TYR:HE1	1:B:310:PHE:CE1	2.34	0.45
1:B:315:SER:HB3	1:B:747:ASN:HD21	1.80	0.45
1:B:418:THR:CB	1:B:578:THR:HG23	2.43	0.45
1:B:520:VAL:O	1:B:522:GLU:N	2.49	0.45
1:B:694:TRP:O	1:B:695:ARG:C	2.58	0.45
1:B:720:LEU:HD22	1:B:761:ILE:CG2	2.45	0.45
1:B:769:GLN:O	1:B:773:PHE:CD2	2.70	0.45
1:B:843:ILE:HA	1:B:846:SER:HB2	1.97	0.45
1:B:892:ILE:CB	1:B:916:TYR:CZ	2.96	0.45
1:B:1193:LEU:HB3	1:B:1195:LEU:CD1	2.47	0.45
1:B:1209:VAL:HG13	1:B:1210:VAL:N	2.30	0.45
1:A:38:MET:SD	1:A:362:PHE:HE1	2.38	0.45
1:A:289:ILE:HD13	1:A:289:ILE:HA	1.87	0.45
1:A:306:TYR:HE1	1:A:310:PHE:CZ	2.34	0.45
1:A:385:GLN:NE2	1:A:386:GLY:O	2.50	0.45
1:A:399:SER:CB	1:A:402:GLU:OE2	2.59	0.45
1:A:509:ILE:HD11	1:A:510:MET:HG2	1.97	0.45
1:A:729:SER:CB	1:A:971:LEU:HB3	2.47	0.45
1:A:1125:GLU:O	1:A:1128:ALA:HB3	2.17	0.45
1:A:1226:ILE:C	1:A:1226:ILE:HD12	2.41	0.45
1:A:1236:ALA:CB	1:A:1239:ILE:HG13	2.45	0.45
1:B:210:LEU:CA	1:B:213:VAL:HG23	2.26	0.45
1:B:232:LEU:CB	1:B:295:MET:SD	3.04	0.45
1:B:435:LEU:HD12	1:B:440:TYR:O	2.16	0.45
1:B:493:MET:O	1:B:497:GLU:HB2	2.17	0.45
1:B:760:ILE:HG22	1:B:761:ILE:N	2.30	0.45
1:B:790:LYS:C	1:B:794:ARG:HE	2.21	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:872:MET:HE2	1:B:873:LYS:HA	1.97	0.45
1:B:948:SER:O	1:B:949:TYR:C	2.59	0.45
1:B:1023:LYS:O	1:B:1026:MET:HG2	2.16	0.45
1:A:134:LEU:O	1:A:138:ARG:HG3	2.16	0.45
1:A:257:ILE:HD11	1:A:261:ILE:HG12	1.97	0.45
1:A:724:PHE:CD1	1:A:754:LEU:HD21	2.51	0.45
1:A:821:VAL:O	1:A:824:ALA:N	2.49	0.45
1:A:1001:ALA:O	1:A:1002:SER:C	2.60	0.45
1:A:1023:LYS:C	1:A:1025:ASN:H	2.25	0.45
1:A:1039:ASN:O	1:A:1040:TYR:C	2.60	0.45
1:B:177:LYS:O	1:B:354:ALA:CB	2.65	0.45
1:B:263:PHE:CZ	1:B:1129:TYR:HD1	2.34	0.45
1:B:282:ARG:HA	1:B:282:ARG:HD3	1.81	0.45
1:B:324:ILE:C	1:B:326:GLN:N	2.69	0.45
1:B:514:HIS:HB2	1:B:518:THR:OG1	2.16	0.45
1:B:528:SER:O	1:B:530:GLY:N	2.49	0.45
1:B:585:LEU:HA	1:B:588:VAL:HG23	1.97	0.45
1:B:788:VAL:O	1:B:791:SER:HB2	2.17	0.45
1:B:813:ARG:HA	1:B:817:ASP:OD2	2.17	0.45
1:B:999:VAL:HG12	1:B:1000:SER:N	2.31	0.45
1:B:1193:LEU:H	1:B:1223:CYS:HA	1.82	0.45
1:A:99:MET:N	1:A:99:MET:SD	2.89	0.45
1:A:214:ILE:HG12	1:A:331:PHE:CG	2.52	0.45
1:A:327:VAL:O	1:A:328:LEU:C	2.59	0.45
1:A:615:LYS:HA	1:A:619:PHE:CG	2.52	0.45
1:A:730:LYS:CD	1:A:750:LEU:HD21	2.46	0.45
1:A:975:SER:O	1:A:979:PHE:CG	2.70	0.45
1:A:1064:LEU:HB3	1:A:1226:ILE:CB	2.47	0.45
1:B:311:TRP:HH2	1:B:328:LEU:HD12	1.82	0.45
1:B:453:ASP:HB3	1:B:456:THR:CG2	2.47	0.45
1:B:543:ARG:NH2	1:B:907:THR:HG23	2.09	0.45
1:B:1021:GLY:C	1:B:1026:MET:SD	3.00	0.45
1:B:1065:VAL:O	1:B:1241:VAL:HA	2.16	0.45
1:B:1138:TYR:O	1:B:1141:ILE:N	2.50	0.45
1:A:185:LYS:NZ	1:A:186:ILE:HA	2.32	0.45
1:A:308:LEU:C	1:A:310:PHE:N	2.74	0.45
1:A:328:LEU:O	1:A:329:THR:C	2.60	0.45
1:A:500:VAL:O	1:A:501:LYS:C	2.58	0.45
1:A:699:LEU:O	1:A:703:GLU:CD	2.59	0.45
1:A:724:PHE:CE1	1:A:754:LEU:HD21	2.52	0.45
1:A:729:SER:CB	1:A:972:LEU:HD12	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:730:LYS:O	1:A:731:VAL:C	2.59	0.45
1:A:932:HIS:ND1	1:A:932:HIS:C	2.75	0.45
1:A:1012:PRO:C	1:A:1014:ILE:H	2.25	0.45
1:A:1130:GLY:C	1:A:1132:ASN:N	2.74	0.45
1:A:1157:LEU:O	1:A:1158:PRO:O	2.35	0.45
1:A:1236:ALA:CB	1:A:1239:ILE:CD1	2.90	0.45
1:B:81:VAL:HG13	1:B:99:MET:CE	2.39	0.45
1:B:432:THR:O	1:B:433:VAL:C	2.59	0.45
1:B:454:ILE:O	1:B:457:ILE:HG12	2.17	0.45
1:B:501:LYS:HG3	1:B:506:TYR:CB	2.47	0.45
1:B:1236:ALA:CB	1:B:1239:ILE:CD1	2.94	0.45
1:B:1239:ILE:O	1:B:1250:HIS:HA	2.16	0.45
1:A:281:LYS:O	1:A:285:ILE:HG22	2.16	0.45
1:A:387:ASN:ND2	1:A:415:SER:H	2.15	0.45
1:A:413:VAL:HG13	1:A:413:VAL:O	2.17	0.45
1:A:812:THR:O	1:A:813:ARG:C	2.59	0.45
1:A:910:GLN:C	1:A:912:PHE:N	2.74	0.45
1:A:1138:TYR:C	1:A:1140:GLU:N	2.74	0.45
1:A:1176:GLN:O	1:A:1180:ILE:HG13	2.16	0.45
1:B:113:TYR:CD2	1:B:114:TYR:N	2.84	0.45
1:B:155:GLU:OE1	1:B:155:GLU:N	2.50	0.45
1:B:306:TYR:HE1	1:B:310:PHE:CZ	2.34	0.45
1:B:396:SER:N	1:B:443:LEU:CD1	2.65	0.45
1:B:433:VAL:HG13	1:B:549:LEU:HD23	1.99	0.45
1:B:448:SER:HA	1:B:453:ASP:HA	1.99	0.45
1:B:552:GLU:O	1:B:555:SER:HB2	2.16	0.45
1:B:724:PHE:CE1	1:B:754:LEU:HD21	2.52	0.45
1:B:969:ASN:C	1:B:971:LEU:N	2.74	0.45
1:B:975:SER:O	1:B:979:PHE:CG	2.69	0.45
1:B:1166:GLY:O	1:B:1167:ASP:HB3	2.17	0.45
1:B:1167:ASP:O	1:B:1168:LYS:HB2	2.17	0.45
1:A:282:ARG:HD3	1:A:286:LYS:HZ2	1.82	0.45
1:A:532:LYS:O	1:A:533:GLN:C	2.59	0.45
1:A:849:TYR:CE2	1:A:972:LEU:HB3	2.51	0.45
1:A:921:GLN:O	1:A:924:TYR:HB3	2.17	0.45
1:A:1067:SER:OG	1:A:1244:ASN:ND2	2.50	0.45
1:B:168:ASN:O	1:B:171:LEU:HB3	2.17	0.45
1:B:255:ALA:O	1:B:256:ALA:HB3	2.17	0.45
1:B:263:PHE:HE2	1:B:266:GLN:HE22	0.58	0.45
1:B:331:PHE:O	1:B:332:PHE:C	2.60	0.45
1:B:527:LEU:HD23	1:B:527:LEU:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:547:ILE:HA	1:B:577:THR:O	2.16	0.45
1:B:549:LEU:HA	1:B:579:ILE:O	2.17	0.45
1:B:617:ILE:O	1:B:621:LEU:HD23	2.16	0.45
1:B:753:LEU:O	1:B:757:ILE:HB	2.17	0.45
1:B:1138:TYR:C	1:B:1140:GLU:N	2.72	0.45
1:B:1229:ARG:C	1:B:1231:SER:N	2.75	0.45
1:A:57:ALA:HB1	1:A:190:PHE:CA	2.47	0.45
1:A:102:LYS:HE3	1:A:102:LYS:CA	2.46	0.45
1:A:135:ALA:O	1:A:137:GLY:N	2.50	0.45
1:A:322:TYR:CD2	1:A:324:ILE:HD11	2.52	0.45
1:A:338:ALA:O	1:A:339:PHE:C	2.59	0.45
1:A:692:SER:OG	1:A:695:ARG:HB3	2.17	0.45
1:A:810:LEU:O	1:A:814:LEU:HD23	2.16	0.45
1:A:969:ASN:O	1:A:972:LEU:N	2.48	0.45
1:A:1196:ASP:C	1:A:1198:ALA:N	2.74	0.45
1:B:230:LYS:HA	1:B:230:LYS:HD3	1.75	0.45
1:B:409:LEU:HD22	1:B:410:ASN:O	2.17	0.45
1:B:429:LYS:HB3	1:B:597:PHE:CD2	2.52	0.45
1:B:716:ILE:HG13	1:B:717:ASN:N	2.32	0.45
1:B:762:SER:O	1:B:765:THR:N	2.50	0.45
1:B:847:LEU:C	1:B:849:TYR:N	2.74	0.45
1:B:1101:ASN:C	1:B:1101:ASN:OD1	2.60	0.45
1:A:55:LEU:O	1:A:58:ILE:HB	2.17	0.44
1:A:265:GLY:C	1:A:267:LYS:HG3	2.42	0.44
1:A:385:GLN:CG	1:A:386:GLY:N	2.80	0.44
1:A:514:HIS:HB2	1:A:518:THR:OG1	2.17	0.44
1:A:701:SER:O	1:A:702:THR:C	2.60	0.44
1:A:709:VAL:O	1:A:710:GLY:C	2.56	0.44
1:A:788:VAL:CG2	1:A:1004:ILE:HG12	2.47	0.44
1:A:979:PHE:O	1:A:980:GLY:C	2.60	0.44
1:A:1005:ILE:CA	1:A:1008:ILE:HG22	2.45	0.44
1:A:1018:SER:C	1:A:1020:GLN:N	2.74	0.44
1:A:1129:TYR:HD2	1:A:1184:ARG:CB	2.29	0.44
1:A:1131:ASP:OD1	1:A:1134:ARG:HB2	2.17	0.44
1:B:131:PHE:HZ	1:B:185:LYS:NZ	1.99	0.44
1:B:375:SER:O	1:B:376:LYS:HG3	2.17	0.44
1:B:454:ILE:CG2	1:B:455:ARG:H	2.19	0.44
1:B:550:LEU:CD2	1:B:569:LEU:HD22	2.47	0.44
1:B:584:ARG:O	1:B:588:VAL:HG23	2.17	0.44
1:B:853:LEU:HD11	1:B:956:GLY:CA	2.46	0.44
1:B:964:LEU:CD1	1:B:965:MET:N	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1004:ILE:O	1:B:1008:ILE:HG22	2.17	0.44
1:B:1015:ASP:O	1:B:1016:SER:O	2.35	0.44
1:B:1023:LYS:HB3	1:B:1026:MET:HG2	1.98	0.44
1:B:1048:VAL:CG2	1:B:1074:THR:HG21	2.47	0.44
1:B:1049:LEU:HD21	1:B:1074:THR:CB	2.47	0.44
1:B:1215:ASP:C	1:B:1217:ALA:N	2.74	0.44
1:A:53:GLY:O	1:A:54:THR:C	2.59	0.44
1:A:210:LEU:O	1:A:213:VAL:N	2.50	0.44
1:A:716:ILE:O	1:A:717:ASN:C	2.59	0.44
1:A:728:PHE:O	1:A:729:SER:C	2.60	0.44
1:A:753:LEU:HD12	1:A:757:ILE:CG1	2.47	0.44
1:A:780:LEU:O	1:A:784:LEU:HD23	2.18	0.44
1:A:797:VAL:O	1:A:801:ASP:HB2	2.17	0.44
1:A:912:PHE:O	1:A:915:MET:N	2.49	0.44
1:A:939:SER:O	1:A:940:PHE:C	2.60	0.44
1:A:1025:ASN:O	1:A:1027:LEU:N	2.50	0.44
1:A:1065:VAL:HG13	1:A:1065:VAL:O	2.18	0.44
1:A:1157:LEU:O	1:A:1158:PRO:C	2.60	0.44
1:B:53:GLY:HA3	1:B:131:PHE:HB2	1.99	0.44
1:B:69:LEU:O	1:B:72:GLY:N	2.50	0.44
1:B:140:ILE:O	1:B:141:HIS:C	2.60	0.44
1:B:201:ILE:HG22	1:B:202:ILE:HG23	2.00	0.44
1:B:261:ILE:HG23	1:B:1106:ARG:HH11	1.81	0.44
1:B:357:ALA:O	1:B:358:ALA:O	2.35	0.44
1:B:437:GLN:C	1:B:439:LEU:N	2.75	0.44
1:B:843:ILE:HG22	1:B:844:ILE:HD13	1.99	0.44
1:B:893:ALA:HA	1:B:916:TYR:HE2	1.82	0.44
1:B:910:GLN:C	1:B:912:PHE:N	2.72	0.44
1:B:995:ALA:N	1:B:996:LYS:NZ	2.62	0.44
1:A:95:ASP:O	1:A:99:MET:HB2	2.18	0.44
1:A:228:TRP:CE3	1:A:295:MET:HE1	2.51	0.44
1:A:417:GLN:C	1:A:418:THR:CG2	2.89	0.44
1:A:753:LEU:O	1:A:757:ILE:HB	2.17	0.44
1:A:790:LYS:CB	1:A:794:ARG:NH2	2.79	0.44
1:A:812:THR:HG22	1:A:816:ASN:HD22	1.80	0.44
1:A:1130:GLY:O	1:A:1131:ASP:C	2.61	0.44
1:A:1214:LEU:C	1:A:1214:LEU:CD2	2.90	0.44
1:B:170:ARG:NH1	1:B:174:ASP:OD1	2.51	0.44
1:B:215:LEU:O	1:B:219:PRO:HB2	2.16	0.44
1:B:281:LYS:H	1:B:281:LYS:HD2	1.81	0.44
1:B:297:ALA:O	1:B:301:LEU:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:301:LEU:HD13	1:B:763:PHE:HB2	1.99	0.44
1:B:543:ARG:NH2	1:B:905:SER:CA	2.80	0.44
1:B:711:ILE:HG13	1:B:832:ILE:CG2	2.38	0.44
1:B:729:SER:CB	1:B:972:LEU:HD12	2.48	0.44
1:B:853:LEU:N	1:B:853:LEU:HD22	2.32	0.44
1:B:1005:ILE:O	1:B:1009:GLU:CG	2.64	0.44
1:A:151:ILE:HD12	1:A:167:LEU:CD1	2.33	0.44
1:A:267:LYS:HA	1:A:270:LEU:CD1	2.26	0.44
1:A:293:ILE:CG2	1:A:766:PHE:HB3	2.48	0.44
1:A:384:ILE:O	1:A:385:GLN:C	2.58	0.44
1:A:585:LEU:HD23	1:A:625:GLN:NE2	2.32	0.44
1:A:1097:ILE:CD1	1:A:1100:LEU:CD2	2.94	0.44
1:A:1104:TRP:HA	1:A:1107:ALA:HB2	1.99	0.44
1:A:1111:ILE:O	1:A:1112:VAL:HG23	2.17	0.44
1:A:1112:VAL:HG11	1:A:1182:ILE:CD1	2.48	0.44
1:B:212:LEU:O	1:B:213:VAL:C	2.58	0.44
1:B:216:ALA:O	1:B:217:ILE:C	2.60	0.44
1:B:286:LYS:O	1:B:289:ILE:HB	2.17	0.44
1:B:484:ILE:O	1:B:487:GLY:N	2.50	0.44
1:B:689:PRO:HG2	1:B:690:PRO:HD3	1.99	0.44
1:B:849:TYR:CB	1:B:854:THR:HG23	2.46	0.44
1:B:905:SER:HB2	1:B:907:THR:OG1	2.17	0.44
1:B:970:VAL:HA	1:B:973:VAL:HG23	1.99	0.44
1:B:979:PHE:O	1:B:980:GLY:C	2.61	0.44
1:B:996:LYS:N	1:B:996:LYS:CD	2.58	0.44
1:B:1025:ASN:C	1:B:1027:LEU:HD23	2.42	0.44
1:B:1030:ASN:OD1	1:B:1057:LYS:HA	2.17	0.44
1:B:1079:LEU:HD23	1:B:1194:LEU:HD21	1.99	0.44
1:A:43:GLY:HA3	1:A:46:ASP:HB2	1.99	0.44
1:A:158:TRP:HZ2	1:A:900:PHE:CA	2.30	0.44
1:A:278:GLU:HG2	1:A:282:ARG:HH21	1.82	0.44
1:A:711:ILE:CG1	1:A:715:ILE:HD11	2.47	0.44
1:A:833:PHE:CD1	1:A:833:PHE:C	2.93	0.44
1:A:894:THR:O	1:A:898:GLU:CB	2.64	0.44
1:B:39:PHE:CD2	1:B:355:ARG:HA	2.51	0.44
1:B:174:ASP:O	1:B:175:VAL:C	2.61	0.44
1:B:305:SER:O	1:B:306:TYR:C	2.61	0.44
1:B:373:SER:C	1:B:374:PHE:O	2.58	0.44
1:B:393:ILE:HD13	1:B:393:ILE:N	2.32	0.44
1:B:488:ARG:O	1:B:489:GLU:C	2.60	0.44
1:B:496:ILE:O	1:B:499:ALA:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:748:SER:O	1:B:751:PHE:CD1	2.70	0.44
1:B:779:ILE:HD12	1:B:783:ARG:NH2	2.33	0.44
1:B:902:THR:O	1:B:904:VAL:N	2.50	0.44
1:B:904:VAL:CG1	1:B:905:SER:N	2.81	0.44
1:B:1032:GLN:HE21	1:B:1055:GLU:HG3	1.82	0.44
1:B:1132:ASN:O	1:B:1133:SER:C	2.60	0.44
1:B:1185:ALA:O	1:B:1187:VAL:N	2.51	0.44
1:B:1196:ASP:C	1:B:1198:ALA:N	2.75	0.44
1:A:171:LEU:C	1:A:171:LEU:CD1	2.90	0.44
1:A:613:ARG:HE	1:A:613:ARG:HB3	1.68	0.44
1:A:821:VAL:HG23	1:A:822:LYS:N	2.33	0.44
1:A:1020:GLN:HG3	1:A:1101:ASN:H	1.82	0.44
1:A:1250:HIS:ND1	1:A:1250:HIS:C	2.75	0.44
1:B:34:SER:O	1:B:38:MET:HB2	2.17	0.44
1:B:128:GLN:HE21	1:B:186:ILE:CD1	2.26	0.44
1:B:155:GLU:OE1	1:B:155:GLU:CA	2.66	0.44
1:B:195:THR:HG23	1:B:196:PHE:N	2.33	0.44
1:B:221:LEU:HD13	1:B:306:TYR:HA	1.97	0.44
1:B:236:THR:HA	1:B:288:ALA:HB1	2.00	0.44
1:B:361:VAL:CA	1:B:364:ILE:HB	2.48	0.44
1:B:363:LYS:HB2	1:B:363:LYS:HE3	1.72	0.44
1:B:819:ALA:O	1:B:820:GLN:C	2.60	0.44
1:B:1103:GLN:OE1	1:B:1103:GLN:HA	2.16	0.44
1:A:189:PHE:O	1:A:190:PHE:C	2.61	0.44
1:A:246:ALA:HB2	1:A:277:LEU:HD12	1.99	0.44
1:A:253:VAL:C	1:A:254:LEU:CD2	2.82	0.44
1:A:361:VAL:CA	1:A:364:ILE:HB	2.47	0.44
1:A:431:THR:O	1:A:434:GLN:HB3	2.18	0.44
1:A:472:GLU:C	1:A:472:GLU:OE1	2.60	0.44
1:A:566:GLN:HA	1:A:569:LEU:HD12	1.99	0.44
1:A:614:GLU:O	1:A:615:LYS:HB2	2.18	0.44
1:A:904:VAL:HG13	1:A:905:SER:OG	2.18	0.44
1:A:1204:THR:N	1:A:1207:GLU:OE1	2.51	0.44
1:B:52:VAL:HG12	1:B:53:GLY:N	2.32	0.44
1:B:144:ARG:NH1	1:B:175:VAL:HG21	2.32	0.44
1:B:361:VAL:HA	1:B:364:ILE:HB	2.00	0.44
1:B:409:LEU:HD22	1:B:409:LEU:C	2.42	0.44
1:B:411:LEU:HD23	1:B:412:LYS:C	2.43	0.44
1:B:750:LEU:O	1:B:753:LEU:HB3	2.17	0.44
1:B:852:GLN:O	1:B:955:PHE:CD1	2.71	0.44
1:B:882:ASP:C	1:B:884:LYS:N	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1127:ILE:C	1:B:1129:TYR:H	2.25	0.44
1:B:1164:ARG:O	1:B:1166:GLY:N	2.51	0.44
1:B:1195:LEU:N	1:B:1195:LEU:CD1	2.80	0.44
1:A:35:VAL:HG21	1:A:355:ARG:HH21	1.83	0.44
1:A:45:LEU:HD22	1:A:45:LEU:N	2.29	0.44
1:A:326:GLN:C	1:A:328:LEU:N	2.69	0.44
1:A:435:LEU:O	1:A:437:GLN:N	2.51	0.44
1:A:498:LYS:HZ1	1:A:502:GLU:CD	2.26	0.44
1:A:503:ALA:O	1:A:504:ASN:C	2.60	0.44
1:A:519:LEU:HB2	1:A:520:VAL:H	1.68	0.44
1:A:709:VAL:O	1:A:712:PHE:HB3	2.17	0.44
1:A:853:LEU:C	1:A:856:LEU:HB3	2.43	0.44
1:A:856:LEU:CD1	1:A:955:PHE:CD1	2.66	0.44
1:A:937:THR:O	1:A:938:PHE:C	2.60	0.44
1:B:189:PHE:O	1:B:190:PHE:C	2.59	0.44
1:B:220:VAL:O	1:B:223:LEU:HB2	2.17	0.44
1:B:566:GLN:O	1:B:570:ASP:OD1	2.35	0.44
1:B:585:LEU:H	1:B:585:LEU:HD22	1.83	0.44
1:B:730:LYS:HD3	1:B:750:LEU:CD2	2.45	0.44
1:B:856:LEU:HD22	1:B:955:PHE:HD1	1.82	0.44
1:B:995:ALA:O	1:B:997:ALA:N	2.51	0.44
1:A:85:SER:HA	1:A:963:GLN:CD	2.43	0.44
1:A:291:ALA:O	1:A:295:MET:N	2.51	0.44
1:A:291:ALA:O	1:A:295:MET:SD	2.76	0.44
1:A:727:ILE:HD11	1:A:750:LEU:O	2.17	0.44
1:A:971:LEU:HD22	1:A:971:LEU:N	2.33	0.44
1:A:1058:LYS:O	1:A:1060:GLN:N	2.51	0.44
1:B:149:HIS:CD2	1:B:368:LYS:NZ	2.86	0.44
1:B:207:GLY:C	1:B:211:THR:H	2.25	0.44
1:B:286:LYS:HE3	1:B:822:LYS:NZ	2.33	0.44
1:B:584:ARG:C	1:B:586:SER:N	2.73	0.44
1:B:684:LEU:HD12	1:B:684:LEU:O	2.18	0.44
1:B:820:GLN:HG3	1:B:1000:SER:HB3	2.00	0.44
1:B:872:MET:CE	1:B:873:LYS:HA	2.48	0.44
1:B:1113:SER:OG	1:B:1114:GLN:N	2.51	0.44
1:B:1171:GLN:O	1:B:1172:LEU:HG	2.18	0.44
1:B:1182:ILE:O	1:B:1183:ALA:C	2.60	0.44
1:A:185:LYS:HE3	1:A:185:LYS:HB3	1.83	0.43
1:A:248:ALA:O	1:A:251:GLU:HB2	2.18	0.43
1:A:257:ILE:HG12	1:A:800:PHE:CD2	2.44	0.43
1:A:308:LEU:HD23	1:A:309:ALA:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:ILE:HD11	1:A:409:LEU:CD1	2.48	0.43
1:A:716:ILE:CG1	1:A:717:ASN:N	2.81	0.43
1:A:755:PHE:CG	1:A:756:LEU:N	2.84	0.43
1:A:889:SER:OG	1:A:919:SER:HB2	2.18	0.43
1:A:908:ARG:HA	1:A:911:LYS:HB3	1.99	0.43
1:A:962:GLN:O	1:A:963:GLN:CB	2.65	0.43
1:A:1039:ASN:CB	1:A:1047:PRO:HG3	2.48	0.43
1:A:1092:LEU:H	1:A:1097:ILE:CG1	2.31	0.43
1:A:1138:TYR:O	1:A:1141:ILE:N	2.51	0.43
1:B:99:MET:C	1:B:101:ALA:N	2.73	0.43
1:B:271:GLU:HG3	1:B:786:TYR:CZ	2.52	0.43
1:B:796:ASP:OD1	1:B:1014:ILE:CG2	2.66	0.43
1:B:910:GLN:NE2	1:B:910:GLN:HA	2.32	0.43
1:B:1113:SER:O	1:B:1114:GLN:C	2.60	0.43
1:B:1170:THR:O	1:B:1170:THR:HG22	2.17	0.43
1:A:71:PHE:CE1	1:A:328:LEU:HD21	2.53	0.43
1:A:183:GLY:O	1:A:186:ILE:HG13	2.18	0.43
1:A:211:THR:O	1:A:215:LEU:HG	2.18	0.43
1:A:368:LYS:O	1:A:369:PRO:C	2.60	0.43
1:A:393:ILE:CG2	1:A:446:MET:N	2.81	0.43
1:A:751:PHE:CD1	1:A:752:SER:N	2.86	0.43
1:A:821:VAL:C	1:A:823:GLY:N	2.69	0.43
1:A:909:GLU:HB3	1:A:910:GLN:H	1.57	0.43
1:A:967:PHE:N	1:A:967:PHE:CD2	2.86	0.43
1:A:1048:VAL:CG2	1:A:1074:THR:HG21	2.47	0.43
1:B:111:ALA:HA	1:B:114:TYR:CE1	2.53	0.43
1:B:163:ASP:CB	1:B:166:GLU:HB3	2.27	0.43
1:B:544:ASN:CG	1:B:544:ASN:O	2.60	0.43
1:B:773:PHE:CD1	1:B:774:GLY:N	2.86	0.43
1:B:795:GLN:C	1:B:796:ASP:CG	2.86	0.43
1:B:866:ILE:O	1:B:870:VAL:HG12	2.17	0.43
1:B:1080:GLU:CD	1:B:1109:LEU:HD12	2.43	0.43
1:A:118:GLY:CA	1:A:946:TYR:CG	3.01	0.43
1:A:174:ASP:O	1:A:178:ILE:HG12	2.19	0.43
1:A:268:LYS:C	1:A:268:LYS:CD	2.91	0.43
1:A:298:ALA:O	1:A:299:PHE:C	2.61	0.43
1:A:374:PHE:CZ	1:A:376:LYS:CB	3.00	0.43
1:A:447:VAL:HG22	1:A:454:ILE:HG22	2.00	0.43
1:A:584:ARG:O	1:A:587:THR:N	2.45	0.43
1:A:796:ASP:C	1:A:797:VAL:HG23	2.43	0.43
1:A:830:ALA:O	1:A:834:GLN:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:853:LEU:O	1:A:855:LEU:C	2.59	0.43
1:A:1139:GLU:O	1:A:1142:VAL:HB	2.18	0.43
1:A:1154:ILE:CG1	1:A:1161:TYR:CE2	3.00	0.43
1:B:33:VAL:CA	1:B:37:THR:HB	2.47	0.43
1:B:188:MET:HB2	1:B:347:ASN:CB	2.46	0.43
1:B:585:LEU:HD12	1:B:618:TYR:HE1	1.82	0.43
1:B:713:CYS:O	1:B:714:ALA:C	2.61	0.43
1:B:722:PRO:HA	1:B:979:PHE:HE1	1.82	0.43
1:B:834:GLN:NE2	1:B:983:ALA:HB1	2.34	0.43
1:B:861:VAL:HB	1:B:862:PRO:HD3	1.99	0.43
1:B:1001:ALA:O	1:B:1005:ILE:HG13	2.18	0.43
1:B:1060:GLN:HB2	1:B:1061:THR:H	1.56	0.43
1:B:1062:LEU:HD12	1:B:1224:ILE:CG2	2.45	0.43
1:B:1129:TYR:HD2	1:B:1184:ARG:CB	2.28	0.43
1:B:1137:SER:O	1:B:1140:GLU:CB	2.66	0.43
1:A:129:VAL:HB	1:A:935:GLY:HA2	2.01	0.43
1:A:265:GLY:HA2	1:A:793:LEU:HD21	1.99	0.43
1:A:274:ASN:N	1:A:274:ASN:HD22	2.17	0.43
1:A:287:LYS:O	1:A:291:ALA:N	2.52	0.43
1:A:311:TRP:HD1	1:A:754:LEU:HD13	1.73	0.43
1:A:318:ILE:HG21	1:A:735:PHE:CZ	2.52	0.43
1:A:603:VAL:HG21	1:A:617:ILE:HG13	2.00	0.43
1:A:748:SER:O	1:A:751:PHE:HD1	2.02	0.43
1:A:782:LYS:O	1:A:784:LEU:N	2.52	0.43
1:A:916:TYR:O	1:A:920:LEU:HD23	2.17	0.43
1:A:1229:ARG:C	1:A:1231:SER:N	2.75	0.43
1:B:411:LEU:HD23	1:B:412:LYS:O	2.18	0.43
1:B:428:GLY:N	1:B:431:THR:OG1	2.51	0.43
1:B:470:SER:O	1:B:471:GLN:O	2.37	0.43
1:B:851:TRP:HA	1:B:855:LEU:H	1.84	0.43
1:B:907:THR:CA	1:B:908:ARG:HH11	2.28	0.43
1:B:936:ILE:HG23	1:B:937:THR:H	1.83	0.43
1:B:1052:LEU:HG	1:B:1054:LEU:HD21	2.00	0.43
1:B:1056:VAL:HG13	1:B:1056:VAL:O	2.17	0.43
1:B:1104:TRP:O	1:B:1107:ALA:CB	2.67	0.43
1:B:1138:TYR:O	1:B:1139:GLU:C	2.59	0.43
1:A:93:GLU:HA	1:A:96:LYS:NZ	2.33	0.43
1:A:140:ILE:O	1:A:143:ILE:N	2.51	0.43
1:A:293:ILE:C	1:A:295:MET:H	2.26	0.43
1:A:334:VAL:CG1	1:A:335:LEU:N	2.80	0.43
1:A:364:ILE:C	1:A:367:ASN:OD1	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:367:ASN:C	1:A:369:PRO:HD3	2.44	0.43
1:A:560:GLU:C	1:A:560:GLU:CD	2.86	0.43
1:A:820:GLN:O	1:A:823:GLY:N	2.52	0.43
1:A:912:PHE:HB3	1:A:913:GLU:H	1.64	0.43
1:A:931:ALA:O	1:A:932:HIS:C	2.61	0.43
1:A:962:GLN:O	1:A:962:GLN:HG2	2.17	0.43
1:A:1153:PHE:CE2	1:A:1172:LEU:HD21	2.53	0.43
1:B:48:LEU:O	1:B:49:TYR:C	2.61	0.43
1:B:71:PHE:CA	1:B:74:MET:HE3	2.31	0.43
1:B:184:ASP:O	1:B:185:LYS:C	2.62	0.43
1:B:281:LYS:O	1:B:282:ARG:O	2.36	0.43
1:B:312:TYR:C	1:B:314:THR:N	2.75	0.43
1:B:315:SER:HA	1:B:318:ILE:CG2	2.49	0.43
1:B:375:SER:HB2	1:B:376:LYS:CE	2.47	0.43
1:B:581:ILE:HD13	1:B:582:ALA:N	2.33	0.43
1:B:788:VAL:HG21	1:B:1004:ILE:CG1	2.48	0.43
1:B:835:ASN:O	1:B:836:ILE:C	2.60	0.43
1:B:883:LYS:HA	1:B:886:LEU:CD2	2.48	0.43
1:B:1213:ALA:C	1:B:1215:ASP:N	2.74	0.43
1:B:1263:TYR:O	1:B:1267:VAL:HG23	2.18	0.43
1:A:165:GLY:C	1:A:167:LEU:N	2.75	0.43
1:A:191:GLN:O	1:A:192:ALA:C	2.60	0.43
1:A:200:PHE:O	1:A:203:GLY:N	2.51	0.43
1:A:206:ARG:HA	1:A:206:ARG:HD2	1.85	0.43
1:A:312:TYR:O	1:A:314:THR:N	2.51	0.43
1:A:498:LYS:O	1:A:499:ALA:C	2.62	0.43
1:A:504:ASN:ND2	1:A:564:VAL:HG12	2.34	0.43
1:A:621:LEU:H	1:A:621:LEU:CD2	2.31	0.43
1:A:939:SER:C	1:A:941:THR:N	2.75	0.43
1:A:1013:GLU:O	1:A:1014:ILE:CG2	2.57	0.43
1:A:1113:SER:O	1:A:1114:GLN:C	2.61	0.43
1:A:1117:ILE:HD12	1:A:1118:LEU:N	2.25	0.43
1:A:1143:ARG:HG2	1:A:1143:ARG:HH11	1.83	0.43
1:A:1153:PHE:HE2	1:A:1172:LEU:CD2	2.31	0.43
1:A:1170:THR:O	1:A:1171:GLN:HB3	2.19	0.43
1:B:71:PHE:HE2	1:B:953:PHE:CE1	2.36	0.43
1:B:131:PHE:HZ	1:B:185:LYS:CE	2.32	0.43
1:B:207:GLY:HA3	1:B:211:THR:CA	2.48	0.43
1:B:236:THR:HG22	1:B:237:ASP:N	2.33	0.43
1:B:282:ARG:CA	1:B:286:LYS:HD3	2.48	0.43
1:B:690:PRO:HG2	1:B:1006:ARG:HH22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:849:TYR:CD1	1:B:854:THR:HA	2.45	0.43
1:B:870:VAL:HG13	1:B:871:GLU:N	2.34	0.43
1:B:1046:ILE:HA	1:B:1047:PRO:HD3	1.80	0.43
1:B:1052:LEU:HG	1:B:1054:LEU:CD2	2.49	0.43
1:A:139:GLN:O	1:A:143:ILE:HG12	2.19	0.43
1:A:140:ILE:O	1:A:144:ARG:N	2.52	0.43
1:A:257:ILE:CG2	1:A:800:PHE:CD2	3.02	0.43
1:A:270:LEU:HD13	1:A:789:PHE:CD1	2.54	0.43
1:A:358:ALA:O	1:A:362:PHE:N	2.52	0.43
1:A:363:LYS:HE3	1:A:363:LYS:HB2	1.73	0.43
1:A:552:GLU:O	1:A:555:SER:N	2.49	0.43
1:A:625:GLN:HE21	1:A:625:GLN:HB3	1.67	0.43
1:A:896:ALA:CB	1:A:912:PHE:CE1	3.02	0.43
1:A:1037:VAL:HG21	1:A:1087:ALA:HB3	1.99	0.43
1:A:1158:PRO:C	1:A:1160:LYS:H	2.26	0.43
1:B:155:GLU:O	1:B:156:ILE:C	2.62	0.43
1:B:207:GLY:HA3	1:B:211:THR:CB	2.49	0.43
1:B:361:VAL:HA	1:B:364:ILE:CG1	2.49	0.43
1:B:362:PHE:C	1:B:362:PHE:CD1	2.97	0.43
1:B:732:VAL:O	1:B:736:THR:HG23	2.19	0.43
1:B:1124:ALA:HA	1:B:1127:ILE:HD12	1.99	0.43
1:A:242:ALA:O	1:A:243:TYR:C	2.61	0.43
1:A:282:ARG:HA	1:A:282:ARG:HD3	1.85	0.43
1:A:303:TYR:CE2	1:A:306:TYR:CE2	3.06	0.43
1:A:361:VAL:HA	1:A:364:ILE:HB	2.01	0.43
1:A:382:ASP:C	1:A:384:ILE:H	2.26	0.43
1:A:458:ASN:ND2	1:A:459:VAL:N	2.66	0.43
1:A:513:PRO:O	1:A:515:GLN:N	2.49	0.43
1:A:554:THR:OG1	1:A:562:GLU:HG3	2.19	0.43
1:A:584:ARG:O	1:A:585:LEU:C	2.61	0.43
1:A:716:ILE:HG13	1:A:717:ASN:N	2.33	0.43
1:A:1018:SER:C	1:A:1101:ASN:HB2	2.43	0.43
1:A:1109:LEU:N	1:A:1109:LEU:HD23	2.34	0.43
1:A:1171:GLN:O	1:A:1172:LEU:HG	2.19	0.43
1:B:119:ALA:O	1:B:120:GLY:C	2.62	0.43
1:B:398:PRO:HD3	1:B:440:TYR:HE2	1.83	0.43
1:B:490:ASP:O	1:B:491:VAL:HB	2.19	0.43
1:B:716:ILE:HD12	1:B:717:ASN:N	2.33	0.43
1:B:1144:ALA:C	1:B:1146:LYS:N	2.77	0.43
1:B:1154:ILE:HG12	1:B:1161:TYR:HE2	1.82	0.43
1:B:1157:LEU:O	1:B:1158:PRO:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:95:ASP:O	1:A:99:MET:SD	2.76	0.43
1:A:432:THR:C	1:A:434:GLN:N	2.75	0.43
1:A:447:VAL:HG23	1:A:448:SER:N	2.33	0.43
1:A:500:VAL:O	1:A:503:ALA:N	2.51	0.43
1:A:607:ASN:CB	1:A:610:GLU:HG3	2.43	0.43
1:A:693:PHE:C	1:A:695:ARG:N	2.75	0.43
1:A:717:ASN:O	1:A:720:LEU:CB	2.63	0.43
1:A:731:VAL:CG2	1:A:750:LEU:HB3	2.49	0.43
1:A:773:PHE:O	1:A:776:ALA:HB3	2.19	0.43
1:A:896:ALA:O	1:A:899:ASN:N	2.47	0.43
1:A:1264:PHE:O	1:A:1267:VAL:N	2.52	0.43
1:B:134:LEU:O	1:B:138:ARG:HG3	2.18	0.43
1:B:207:GLY:HA2	1:B:210:LEU:HB3	2.00	0.43
1:B:585:LEU:HD22	1:B:585:LEU:N	2.34	0.43
1:B:902:THR:CA	1:B:904:VAL:HG12	2.48	0.43
1:B:908:ARG:O	1:B:911:LYS:CB	2.63	0.43
1:A:158:TRP:CD1	1:A:158:TRP:C	2.97	0.43
1:A:287:LYS:HA	1:A:290:THR:HG1	1.84	0.43
1:A:573:ARG:HD2	1:A:578:THR:CG2	2.46	0.43
1:A:905:SER:C	1:A:907:THR:N	2.76	0.43
1:A:918:GLN:NE2	1:B:482:GLU:OE2	2.52	0.43
1:A:1034:SER:C	1:A:1036:VAL:H	2.27	0.43
1:A:1077:GLN:O	1:A:1078:LEU:C	2.62	0.43
1:A:1092:LEU:CD1	1:A:1104:TRP:HZ3	2.32	0.43
1:A:1196:ASP:O	1:A:1198:ALA:N	2.52	0.43
1:B:49:TYR:O	1:B:52:VAL:HB	2.18	0.43
1:B:138:ARG:CZ	1:B:928:MET:HE1	2.49	0.43
1:B:477:ALA:HB2	1:B:523:ARG:H	1.84	0.43
1:B:611:LEU:HB3	1:B:618:TYR:CB	2.47	0.43
1:B:721:GLN:HB3	1:B:982:MET:HE3	2.01	0.43
1:B:732:VAL:CG2	1:B:733:GLY:H	2.30	0.43
1:B:758:LEU:O	1:B:759:GLY:C	2.61	0.43
1:B:887:GLU:O	1:B:891:LYS:HB2	2.19	0.43
1:B:909:GLU:O	1:B:910:GLN:C	2.62	0.43
1:B:1057:LYS:H	1:B:1057:LYS:CD	2.30	0.43
1:A:33:VAL:N	1:A:36:LEU:CD1	2.80	0.42
1:A:285:ILE:C	1:A:289:ILE:HG12	2.36	0.42
1:A:498:LYS:NZ	1:A:502:GLU:HG3	2.32	0.42
1:A:795:GLN:OE1	1:A:1010:LYS:CB	2.67	0.42
1:A:883:LYS:HA	1:A:886:LEU:CD2	2.47	0.42
1:A:995:ALA:HB3	1:A:996:LYS:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1150:ILE:CA	1:A:1179:ARG:HD3	2.46	0.42
1:B:57:ALA:HB1	1:B:190:PHE:CA	2.49	0.42
1:B:121:VAL:CG2	1:B:122:LEU:H	2.29	0.42
1:B:312:TYR:O	1:B:314:THR:N	2.52	0.42
1:B:324:ILE:HB	1:B:326:GLN:CB	2.46	0.42
1:B:385:GLN:CG	1:B:386:GLY:N	2.81	0.42
1:B:496:ILE:H	1:B:496:ILE:CD1	2.27	0.42
1:B:617:ILE:O	1:B:618:TYR:C	2.62	0.42
1:B:625:GLN:O	1:B:626:THR:CB	2.67	0.42
1:B:696:ILE:O	1:B:700:ASN:CG	2.62	0.42
1:B:1217:ALA:O	1:B:1221:ARG:CD	2.67	0.42
1:B:1253:HIS:O	1:B:1256:LEU:HB2	2.18	0.42
1:A:132:TRP:CG	1:A:183:GLY:HA3	2.54	0.42
1:A:155:GLU:OE1	1:A:155:GLU:N	2.52	0.42
1:A:174:ASP:OD2	1:A:174:ASP:N	2.52	0.42
1:A:713:CYS:SG	1:A:768:LEU:CG	3.07	0.42
1:A:1052:LEU:HD21	1:A:1054:LEU:HD21	2.01	0.42
1:A:1174:GLY:O	1:A:1177:LYS:HB2	2.19	0.42
1:A:1228:HIS:O	1:A:1230:LEU:HD23	2.19	0.42
1:B:141:HIS:CE1	1:B:924:TYR:HB2	2.54	0.42
1:B:278:GLU:O	1:B:282:ARG:CZ	2.67	0.42
1:B:291:ALA:O	1:B:295:MET:SD	2.77	0.42
1:B:334:VAL:HG13	1:B:335:LEU:N	2.35	0.42
1:B:359:TYR:HA	1:B:362:PHE:HB3	2.01	0.42
1:B:696:ILE:O	1:B:700:ASN:CB	2.67	0.42
1:B:705:PRO:HG2	1:B:706:TYR:H	1.83	0.42
1:B:731:VAL:HG22	1:B:750:LEU:CB	2.48	0.42
1:B:922:ILE:CB	1:B:923:PRO:HD3	2.48	0.42
1:B:1006:ARG:O	1:B:1009:GLU:O	2.37	0.42
1:B:1143:ARG:HG2	1:B:1143:ARG:HH11	1.84	0.42
1:B:1153:PHE:CZ	1:B:1176:GLN:CG	3.01	0.42
1:A:43:GLY:C	1:A:46:ASP:HB2	2.44	0.42
1:A:114:TYR:CD2	1:A:946:TYR:CE2	3.05	0.42
1:A:162:HIS:C	1:A:164:VAL:N	2.74	0.42
1:A:203:GLY:C	1:A:211:THR:OG1	2.62	0.42
1:A:273:TYR:O	1:A:274:ASN:C	2.63	0.42
1:A:309:ALA:O	1:A:310:PHE:C	2.61	0.42
1:A:371:ILE:C	1:A:373:SER:N	2.78	0.42
1:A:397:TYR:HD2	1:A:397:TYR:HA	1.75	0.42
1:A:573:ARG:O	1:A:574:GLU:C	2.62	0.42
1:A:617:ILE:O	1:A:618:TYR:C	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:877:GLY:O	1:A:881:LYS:HG2	2.19	0.42
1:A:959:LEU:O	1:A:966:THR:OG1	2.20	0.42
1:A:1020:GLN:CB	1:A:1026:MET:HE1	2.50	0.42
1:A:1109:LEU:CG	1:A:1109:LEU:O	2.67	0.42
1:A:1159:ASP:O	1:A:1160:LYS:C	2.60	0.42
1:A:1208:LYS:O	1:A:1209:VAL:C	2.58	0.42
1:B:65:PRO:O	1:B:68:MET:HB2	2.19	0.42
1:B:201:ILE:O	1:B:205:THR:CB	2.58	0.42
1:B:371:ILE:HD13	1:B:374:PHE:HD2	1.83	0.42
1:B:429:LYS:CD	1:B:430:SER:H	2.28	0.42
1:B:455:ARG:H	1:B:455:ARG:HG3	1.67	0.42
1:B:560:GLU:OE2	1:B:561:SER:N	2.52	0.42
1:B:731:VAL:HA	1:B:750:LEU:HD13	2.01	0.42
1:B:755:PHE:CD2	1:B:755:PHE:C	2.97	0.42
1:B:962:GLN:O	1:B:963:GLN:CB	2.67	0.42
1:B:1043:ARG:O	1:B:1046:ILE:N	2.52	0.42
1:B:1104:TRP:HA	1:B:1107:ALA:HB2	2.01	0.42
1:B:1130:GLY:C	1:B:1132:ASN:N	2.76	0.42
1:B:1193:LEU:HB3	1:B:1195:LEU:HD11	2.01	0.42
1:A:156:ILE:HD13	1:A:372:ASP:OD1	2.18	0.42
1:A:158:TRP:CZ2	1:A:900:PHE:CA	3.02	0.42
1:A:307:ALA:O	1:A:310:PHE:HB3	2.19	0.42
1:A:384:ILE:HG23	1:A:546:LYS:CE	2.41	0.42
1:A:581:ILE:HD13	1:A:582:ALA:N	2.34	0.42
1:A:718:GLY:HA2	1:A:833:PHE:HE1	1.83	0.42
1:A:749:ASN:O	1:A:750:LEU:C	2.62	0.42
1:A:770:GLY:HA2	1:A:773:PHE:CE2	2.54	0.42
1:A:870:VAL:HG13	1:A:871:GLU:N	2.34	0.42
1:A:922:ILE:HD13	1:A:922:ILE:HA	1.91	0.42
1:A:1062:LEU:HB3	1:A:1224:ILE:HG23	2.00	0.42
1:B:82:GLY:O	1:B:85:SER:HB2	2.19	0.42
1:B:158:TRP:HA	1:B:162:HIS:HD2	1.84	0.42
1:B:267:LYS:CA	1:B:790:LYS:HE2	2.47	0.42
1:B:419:VAL:HG13	1:B:579:ILE:HG12	2.00	0.42
1:B:721:GLN:CB	1:B:982:MET:HE3	2.49	0.42
1:B:760:ILE:N	1:B:760:ILE:CD1	2.83	0.42
1:B:855:LEU:HA	1:B:858:LEU:HD21	2.01	0.42
1:B:877:GLY:O	1:B:881:LYS:HG2	2.20	0.42
1:B:905:SER:C	1:B:907:THR:H	2.27	0.42
1:B:1037:VAL:CG2	1:B:1037:VAL:O	2.66	0.42
1:B:1061:THR:HG23	1:B:1225:VAL:HG12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1182:ILE:O	1:B:1183:ALA:O	2.37	0.42
1:B:1217:ALA:O	1:B:1221:ARG:HD3	2.19	0.42
1:B:1230:LEU:O	1:B:1233:ILE:HG22	2.19	0.42
1:A:114:TYR:CD2	1:A:114:TYR:C	2.98	0.42
1:A:448:SER:HA	1:A:453:ASP:HA	2.02	0.42
1:A:574:GLU:OE1	1:A:574:GLU:HA	2.19	0.42
1:A:762:SER:C	1:A:764:ILE:N	2.74	0.42
1:B:37:THR:O	1:B:40:ARG:C	2.62	0.42
1:B:170:ARG:O	1:B:171:LEU:C	2.60	0.42
1:B:190:PHE:C	1:B:190:PHE:CD1	2.96	0.42
1:B:197:PHE:O	1:B:201:ILE:N	2.52	0.42
1:B:210:LEU:O	1:B:213:VAL:N	2.53	0.42
1:B:249:VAL:O	1:B:249:VAL:HG12	2.19	0.42
1:B:290:THR:HA	1:B:293:ILE:CG1	2.50	0.42
1:B:359:TYR:CA	1:B:362:PHE:HB3	2.50	0.42
1:B:365:ILE:O	1:B:367:ASN:OD1	2.37	0.42
1:B:392:ASN:O	1:B:392:ASN:CG	2.61	0.42
1:B:411:LEU:C	1:B:411:LEU:CD2	2.91	0.42
1:B:484:ILE:HG12	1:B:496:ILE:HG23	2.01	0.42
1:B:500:VAL:HG21	1:B:516:PHE:HZ	1.84	0.42
1:B:727:ILE:HG23	1:B:728:PHE:N	2.33	0.42
1:B:856:LEU:O	1:B:859:ALA:HB3	2.19	0.42
1:B:1078:LEU:CD2	1:B:1085:PRO:HD3	2.49	0.42
1:A:207:GLY:O	1:A:208:TRP:O	2.38	0.42
1:A:286:LYS:HE3	1:A:822:LYS:NZ	2.35	0.42
1:A:797:VAL:C	1:A:801:ASP:OD1	2.63	0.42
1:A:835:ASN:O	1:A:836:ILE:C	2.63	0.42
1:A:842:GLY:HA2	1:A:979:PHE:CE2	2.54	0.42
1:A:912:PHE:HD2	1:A:912:PHE:HA	1.71	0.42
1:A:938:PHE:C	1:A:938:PHE:CD2	2.97	0.42
1:A:1208:LYS:HZ2	1:A:1209:VAL:HA	1.83	0.42
1:B:71:PHE:C	1:B:74:MET:HG2	2.44	0.42
1:B:498:LYS:CE	1:B:502:GLU:HB2	2.50	0.42
1:B:508:PHE:CD1	1:B:509:ILE:N	2.87	0.42
1:B:615:LYS:HA	1:B:619:PHE:CD2	2.55	0.42
1:B:765:THR:OG1	1:B:769:GLN:NE2	2.49	0.42
1:B:914:THR:C	1:B:916:TYR:N	2.73	0.42
1:B:1003:HIS:O	1:B:1007:ILE:HD13	2.20	0.42
1:B:1138:TYR:O	1:B:1140:GLU:N	2.52	0.42
1:B:1150:ILE:HB	1:B:1179:ARG:CB	2.48	0.42
1:A:69:LEU:HA	1:A:329:THR:HG23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:163:ASP:O	1:A:164:VAL:HB	2.20	0.42
1:A:380:LYS:HE3	1:A:461:TYR:CD2	2.55	0.42
1:A:779:ILE:CG1	1:A:780:LEU:N	2.66	0.42
1:A:1014:ILE:HG22	1:A:1102:VAL:CG1	2.38	0.42
1:A:1020:GLN:HG2	1:A:1100:LEU:HD11	2.01	0.42
1:A:1138:TYR:O	1:A:1139:GLU:C	2.61	0.42
1:B:183:GLY:O	1:B:186:ILE:HG23	2.20	0.42
1:B:209:LYS:CA	1:B:212:LEU:HB3	2.49	0.42
1:B:217:ILE:CG2	1:B:309:ALA:HB1	2.49	0.42
1:B:293:ILE:O	1:B:295:MET:N	2.53	0.42
1:B:523:ARG:C	1:B:525:ALA:H	2.28	0.42
1:B:603:VAL:HG21	1:B:617:ILE:HG13	2.02	0.42
1:B:696:ILE:O	1:B:700:ASN:N	2.52	0.42
1:B:713:CYS:SG	1:B:768:LEU:HG	2.59	0.42
1:B:768:LEU:CD1	1:B:769:GLN:N	2.83	0.42
1:B:839:LEU:O	1:B:842:GLY:N	2.51	0.42
1:B:882:ASP:O	1:B:883:LYS:C	2.62	0.42
1:A:58:ILE:HG13	1:A:193:MET:HG3	2.01	0.42
1:A:83:ASN:O	1:A:86:LYS:HB3	2.20	0.42
1:A:227:ILE:CG2	1:A:231:ILE:HD11	2.49	0.42
1:A:286:LYS:HD2	1:A:289:ILE:HG13	2.02	0.42
1:A:311:TRP:O	1:A:314:THR:HB	2.20	0.42
1:A:450:ASP:OD2	1:A:451:GLY:N	2.53	0.42
1:A:585:LEU:HD12	1:A:618:TYR:CE1	2.54	0.42
1:A:864:ILE:O	1:A:867:ALA:HB3	2.20	0.42
1:A:925:ARG:HB3	1:B:514:HIS:CE1	2.55	0.42
1:A:929:LYS:O	1:A:932:HIS:HB3	2.20	0.42
1:A:1031:VAL:O	1:A:1055:GLU:HA	2.20	0.42
1:A:1178:GLN:OE1	1:A:1178:GLN:HA	2.19	0.42
1:A:1215:ASP:O	1:A:1218:ARG:HD3	2.19	0.42
1:B:270:LEU:HD11	1:B:790:LYS:HE2	2.02	0.42
1:B:287:LYS:HA	1:B:290:THR:HG1	1.85	0.42
1:B:367:ASN:HB2	1:B:369:PRO:HD3	2.02	0.42
1:B:447:VAL:HG23	1:B:448:SER:N	2.34	0.42
1:B:739:GLY:HA2	1:B:740:PRO:HD2	1.82	0.42
1:B:829:LEU:C	1:B:831:VAL:H	2.27	0.42
1:B:913:GLU:O	1:B:916:TYR:HB2	2.20	0.42
1:B:1044:PRO:C	1:B:1046:ILE:N	2.76	0.42
1:B:1144:ALA:O	1:B:1146:LYS:N	2.53	0.42
1:B:1159:ASP:O	1:B:1160:LYS:C	2.63	0.42
1:B:1180:ILE:O	1:B:1181:ALA:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:59:ILE:CG1	1:A:60:HIS:N	2.81	0.42
1:A:447:VAL:O	1:A:454:ILE:HG22	2.19	0.42
1:A:721:GLN:HB3	1:A:982:MET:HE3	2.02	0.42
1:A:898:GLU:O	1:A:898:GLU:HG2	2.18	0.42
1:A:904:VAL:CG1	1:A:905:SER:N	2.82	0.42
1:A:943:ALA:HB1	1:A:947:PHE:HE1	1.84	0.42
1:A:1080:GLU:O	1:A:1081:ARG:C	2.63	0.42
1:B:245:LYS:HA	1:B:245:LYS:NZ	2.35	0.42
1:B:813:ARG:O	1:B:814:LEU:C	2.62	0.42
1:B:899:ASN:OD1	1:B:901:ARG:NH2	2.53	0.42
1:B:909:GLU:HB3	1:B:910:GLN:H	1.51	0.42
1:B:995:ALA:O	1:B:998:THR:N	2.53	0.42
1:B:1010:LYS:O	1:B:1011:THR:CB	2.67	0.42
1:B:1038:PHE:CD2	1:B:1049:LEU:HD23	2.51	0.42
1:B:1091:PHE:HE1	1:B:1096:GLU:CB	2.30	0.42
1:B:1143:ARG:CZ	1:B:1143:ARG:HB2	2.50	0.42
1:A:119:ALA:O	1:A:120:GLY:C	2.63	0.42
1:A:175:VAL:C	1:A:178:ILE:HG12	2.45	0.42
1:A:508:PHE:CD1	1:A:508:PHE:C	2.97	0.42
1:A:686:GLU:O	1:A:687:ASP:C	2.63	0.42
1:A:827:SER:O	1:A:828:ARG:C	2.62	0.42
1:A:954:ARG:HB3	1:A:954:ARG:CZ	2.49	0.42
1:A:1072:LYS:CB	1:A:1226:ILE:HD13	2.42	0.42
1:A:1106:ARG:O	1:A:1109:LEU:CD2	2.65	0.42
1:B:87:ASN:O	1:B:88:SER:C	2.63	0.42
1:B:172:THR:O	1:B:173:ASP:C	2.63	0.42
1:B:275:ASN:OD1	1:B:782:LYS:HB3	2.20	0.42
1:B:315:SER:C	1:B:318:ILE:HG22	2.44	0.42
1:B:405:ILE:CD1	1:B:405:ILE:N	2.73	0.42
1:B:709:VAL:O	1:B:712:PHE:CB	2.68	0.42
1:B:724:PHE:HD1	1:B:754:LEU:CD2	2.32	0.42
1:B:832:ILE:HG22	1:B:833:PHE:N	2.35	0.42
1:B:900:PHE:CD1	1:B:900:PHE:O	2.73	0.42
1:B:1064:LEU:HD22	1:B:1064:LEU:HA	1.92	0.42
1:B:1104:TRP:O	1:B:1107:ALA:HB3	2.20	0.42
1:B:1131:ASP:HB3	1:B:1188:ARG:HE	1.79	0.42
1:B:1175:GLY:CA	1:B:1202:LEU:HD11	2.50	0.42
1:A:58:ILE:HG22	1:A:59:ILE:N	2.34	0.41
1:A:88:SER:O	1:A:90:ASN:N	2.53	0.41
1:A:188:MET:HG3	1:A:348:ILE:HG12	2.02	0.41
1:A:295:MET:O	1:A:298:ALA:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:359:TYR:HA	1:A:362:PHE:HB3	2.02	0.41
1:A:473:PRO:HG2	1:A:473:PRO:O	2.20	0.41
1:A:506:TYR:HA	1:A:509:ILE:CG1	2.49	0.41
1:A:594:ILE:HG22	1:A:595:ALA:N	2.35	0.41
1:A:808:GLY:O	1:A:809:ALA:C	2.63	0.41
1:A:961:THR:O	1:A:961:THR:HG22	2.19	0.41
1:A:992:PRO:HG2	1:A:997:ALA:HB2	2.01	0.41
1:A:1077:GLN:O	1:A:1080:GLU:HB2	2.19	0.41
1:A:1258:ALA:HA	1:A:1260:LYS:HZ1	1.82	0.41
1:B:175:VAL:C	1:B:178:ILE:HG12	2.45	0.41
1:B:286:LYS:HD2	1:B:289:ILE:HG13	2.01	0.41
1:B:386:GLY:HA3	1:B:450:ASP:CA	2.44	0.41
1:B:504:ASN:ND2	1:B:534:ARG:HD3	2.35	0.41
1:B:513:PRO:O	1:B:518:THR:OG1	2.37	0.41
1:B:969:ASN:O	1:B:970:VAL:C	2.63	0.41
1:B:1027:LEU:O	1:B:1028:GLU:C	2.63	0.41
1:B:1043:ARG:O	1:B:1044:PRO:C	2.62	0.41
1:B:1165:VAL:HG23	1:B:1169:GLY:N	2.35	0.41
1:A:37:THR:O	1:A:40:ARG:C	2.63	0.41
1:A:103:LEU:O	1:A:107:MET:HB2	2.20	0.41
1:A:195:THR:HB	1:A:340:SER:HB2	2.00	0.41
1:A:236:THR:HA	1:A:288:ALA:HB1	2.01	0.41
1:A:420:ALA:C	1:A:421:LEU:HD12	2.46	0.41
1:A:433:VAL:CG1	1:A:549:LEU:HD23	2.44	0.41
1:A:460:ARG:O	1:A:464:GLU:HG3	2.21	0.41
1:A:501:LYS:HG3	1:A:506:TYR:CB	2.50	0.41
1:A:596:GLY:O	1:A:601:VAL:O	2.37	0.41
1:A:784:LEU:O	1:A:785:ARG:C	2.63	0.41
1:A:948:SER:O	1:A:949:TYR:C	2.63	0.41
1:B:147:PHE:HA	1:B:150:ALA:HB3	2.01	0.41
1:B:288:ALA:O	1:B:292:ASN:N	2.52	0.41
1:B:307:ALA:O	1:B:310:PHE:HB3	2.19	0.41
1:B:310:PHE:HB3	1:B:311:TRP:H	1.62	0.41
1:B:370:SER:OG	1:B:371:ILE:N	2.52	0.41
1:B:432:THR:OG1	1:B:433:VAL:N	2.53	0.41
1:B:543:ARG:HG2	1:B:543:ARG:NH1	2.30	0.41
1:B:561:SER:O	1:B:562:GLU:C	2.63	0.41
1:B:724:PHE:O	1:B:725:SER:C	2.62	0.41
1:B:751:PHE:O	1:B:752:SER:C	2.63	0.41
1:B:800:PHE:CD1	1:B:800:PHE:N	2.86	0.41
1:B:908:ARG:O	1:B:911:LYS:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:929:LYS:O	1:B:932:HIS:HB3	2.20	0.41
1:B:1079:LEU:HD23	1:B:1194:LEU:HD11	2.02	0.41
1:B:1215:ASP:C	1:B:1217:ALA:H	2.28	0.41
1:A:291:ALA:O	1:A:295:MET:CG	2.69	0.41
1:A:425:SER:OG	1:A:598:ASP:C	2.63	0.41
1:A:498:LYS:CE	1:A:502:GLU:HB2	2.50	0.41
1:A:694:TRP:HA	1:A:697:LEU:HD23	2.02	0.41
1:A:711:ILE:HD12	1:A:832:ILE:HD13	1.96	0.41
1:A:731:VAL:HG22	1:A:750:LEU:HB2	2.03	0.41
1:A:856:LEU:CD2	1:A:955:PHE:HB3	2.50	0.41
1:A:914:THR:O	1:A:917:ALA:N	2.52	0.41
1:A:939:SER:OG	1:A:940:PHE:N	2.50	0.41
1:A:956:GLY:O	1:A:958:TYR:N	2.54	0.41
1:A:1113:SER:OG	1:A:1114:GLN:N	2.53	0.41
1:A:1132:ASN:C	1:A:1134:ARG:N	2.76	0.41
1:A:1148:ALA:HB3	1:A:1150:ILE:HG22	2.01	0.41
1:A:1243:GLN:HA	1:A:1243:GLN:OE1	2.20	0.41
1:B:118:GLY:CA	1:B:946:TYR:CG	3.03	0.41
1:B:311:TRP:HA	1:B:311:TRP:HE3	1.85	0.41
1:B:387:ASN:ND2	1:B:415:SER:H	2.18	0.41
1:B:478:THR:HG21	1:B:482:GLU:HB3	2.03	0.41
1:B:782:LYS:C	1:B:784:LEU:H	2.28	0.41
1:B:810:LEU:O	1:B:811:THR:C	2.64	0.41
1:B:918:GLN:O	1:B:921:GLN:CB	2.64	0.41
1:B:937:THR:O	1:B:938:PHE:C	2.61	0.41
1:A:74:MET:SD	1:A:110:TYR:HE1	2.43	0.41
1:A:114:TYR:HD2	1:A:946:TYR:CD2	2.38	0.41
1:A:170:ARG:O	1:A:171:LEU:C	2.61	0.41
1:A:282:ARG:O	1:A:283:LEU:C	2.63	0.41
1:A:333:SER:O	1:A:336:ILE:HB	2.21	0.41
1:A:366:ASP:O	1:A:367:ASN:C	2.62	0.41
1:A:437:GLN:C	1:A:439:LEU:H	2.28	0.41
1:A:447:VAL:HG13	1:A:454:ILE:HG21	2.02	0.41
1:A:475:LEU:HD23	1:A:539:ARG:HH12	1.85	0.41
1:A:541:LEU:HD13	1:A:541:LEU:O	2.21	0.41
1:A:553:ALA:O	1:A:554:THR:C	2.63	0.41
1:A:554:THR:O	1:A:555:SER:O	2.38	0.41
1:A:561:SER:O	1:A:564:VAL:N	2.54	0.41
1:A:817:ASP:HA	1:A:820:GLN:HG3	2.02	0.41
1:A:910:GLN:NE2	1:A:910:GLN:HA	2.33	0.41
1:B:151:ILE:C	1:B:153:ASN:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:175:VAL:CG1	1:B:176:SER:H	2.33	0.41
1:B:293:ILE:HD11	1:B:773:PHE:HZ	1.85	0.41
1:B:573:ARG:HB3	1:B:578:THR:HG21	2.01	0.41
1:B:716:ILE:CG1	1:B:717:ASN:N	2.83	0.41
1:B:817:ASP:HA	1:B:820:GLN:CG	2.50	0.41
1:B:861:VAL:HB	1:B:862:PRO:CD	2.51	0.41
1:B:933:VAL:O	1:B:934:PHE:C	2.63	0.41
1:B:1040:TYR:CD1	1:B:1040:TYR:N	2.89	0.41
1:A:42:ALA:HB1	1:A:142:LYS:HE3	2.03	0.41
1:A:88:SER:C	1:A:90:ASN:N	2.79	0.41
1:A:203:GLY:O	1:A:215:LEU:CD2	2.61	0.41
1:A:308:LEU:O	1:A:310:PHE:N	2.54	0.41
1:A:405:ILE:HG21	1:A:428:GLY:HA2	2.00	0.41
1:A:458:ASN:ND2	1:A:459:VAL:H	2.19	0.41
1:A:709:VAL:CG2	1:A:772:THR:HG21	2.50	0.41
1:A:788:VAL:HG21	1:A:1004:ILE:HG12	2.03	0.41
1:A:894:THR:HA	1:A:897:ILE:HG13	2.01	0.41
1:A:897:ILE:HD12	1:A:897:ILE:C	2.45	0.41
1:A:959:LEU:HD23	1:A:961:THR:H	1.86	0.41
1:A:1038:PHE:O	1:A:1047:PRO:CB	2.55	0.41
1:A:1109:LEU:O	1:A:1109:LEU:HG	2.20	0.41
1:A:1182:ILE:O	1:A:1183:ALA:C	2.63	0.41
1:A:1199:THR:HG22	1:A:1202:LEU:HD22	2.01	0.41
1:B:358:ALA:O	1:B:362:PHE:N	2.53	0.41
1:B:700:ASN:O	1:B:701:SER:C	2.63	0.41
1:B:730:LYS:O	1:B:734:VAL:HG12	2.19	0.41
1:B:827:SER:O	1:B:828:ARG:C	2.64	0.41
1:B:1056:VAL:O	1:B:1057:LYS:O	2.39	0.41
1:A:106:GLU:OE2	1:A:109:THR:CG2	2.69	0.41
1:A:281:LYS:H	1:A:281:LYS:HD2	1.85	0.41
1:A:378:GLY:HA3	1:A:458:ASN:HB2	2.02	0.41
1:A:484:ILE:CG2	1:A:496:ILE:HG13	2.49	0.41
1:A:694:TRP:CG	1:A:697:LEU:HD23	2.56	0.41
1:A:800:PHE:CD1	1:A:800:PHE:N	2.86	0.41
1:A:861:VAL:HB	1:A:862:PRO:CD	2.50	0.41
1:B:151:ILE:HD12	1:B:167:LEU:CD1	2.38	0.41
1:B:214:ILE:HA	1:B:331:PHE:CE2	2.56	0.41
1:B:295:MET:O	1:B:298:ALA:HB3	2.21	0.41
1:B:342:GLY:O	1:B:346:PRO:HD3	2.20	0.41
1:B:381:PRO:HG2	1:B:461:TYR:CD1	2.56	0.41
1:B:449:ILE:O	1:B:451:GLY:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:484:ILE:HG23	1:B:542:VAL:HG21	2.03	0.41
1:B:504:ASN:ND2	1:B:564:VAL:HG12	2.36	0.41
1:B:589:ARG:C	1:B:591:ALA:H	2.28	0.41
1:B:721:GLN:HG2	1:B:982:MET:CE	2.40	0.41
1:B:857:LEU:CD1	1:B:976:ALA:CB	2.81	0.41
1:B:860:ILE:O	1:B:861:VAL:C	2.61	0.41
1:B:992:PRO:C	1:B:994:TYR:N	2.77	0.41
1:B:1053:SER:C	1:B:1054:LEU:HD22	2.46	0.41
1:B:1097:ILE:CD1	1:B:1100:LEU:CD2	2.95	0.41
1:B:1257:LEU:O	1:B:1258:ALA:C	2.62	0.41
1:A:278:GLU:O	1:A:282:ARG:CZ	2.69	0.41
1:A:292:ASN:C	1:A:295:MET:HB2	2.45	0.41
1:A:312:TYR:O	1:A:313:GLY:C	2.63	0.41
1:A:393:ILE:HD13	1:A:393:ILE:N	2.35	0.41
1:A:492:THR:C	1:A:494:ASP:N	2.78	0.41
1:A:519:LEU:HD22	1:A:526:GLN:HE22	1.85	0.41
1:A:521:GLY:CA	1:A:526:GLN:OE1	2.66	0.41
1:A:576:ARG:HH11	1:A:576:ARG:HG3	1.85	0.41
1:A:732:VAL:CG2	1:A:733:GLY:N	2.84	0.41
1:A:779:ILE:O	1:A:780:LEU:C	2.64	0.41
1:A:820:GLN:HG3	1:A:1000:SER:CB	2.50	0.41
1:A:1150:ILE:C	1:A:1154:ILE:HD13	2.46	0.41
1:A:1213:ALA:O	1:A:1214:LEU:C	2.63	0.41
1:A:1253:HIS:O	1:A:1256:LEU:HB2	2.20	0.41
1:B:95:ASP:O	1:B:99:MET:SD	2.78	0.41
1:B:99:MET:HA	1:B:99:MET:HE3	2.02	0.41
1:B:293:ILE:C	1:B:295:MET:H	2.26	0.41
1:B:425:SER:OG	1:B:599:GLY:HA3	2.21	0.41
1:B:513:PRO:O	1:B:515:GLN:N	2.54	0.41
1:B:727:ILE:HD13	1:B:727:ILE:O	2.21	0.41
1:B:729:SER:OG	1:B:972:LEU:HD11	2.21	0.41
1:B:1109:LEU:O	1:B:1109:LEU:HG	2.20	0.41
1:A:467:GLY:CA	1:A:545:PRO:HG3	2.45	0.41
1:A:504:ASN:OD1	1:A:568:ALA:HB2	2.19	0.41
1:A:520:VAL:O	1:A:522:GLU:N	2.54	0.41
1:A:538:ALA:O	1:A:539:ARG:C	2.64	0.41
1:A:607:ASN:HB3	1:A:610:GLU:CD	2.46	0.41
1:A:760:ILE:N	1:A:760:ILE:CD1	2.83	0.41
1:A:843:ILE:O	1:A:846:SER:CB	2.59	0.41
1:A:927:ALA:HA	1:A:930:LYS:HE3	2.02	0.41
1:B:43:GLY:O	1:B:47:ARG:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:GLY:CA	1:B:160:ASP:CG	2.88	0.41
1:B:286:LYS:CE	1:B:778:GLU:HG2	2.47	0.41
1:B:287:LYS:HA	1:B:290:THR:OG1	2.19	0.41
1:B:327:VAL:O	1:B:328:LEU:O	2.38	0.41
1:B:375:SER:C	1:B:376:LYS:CG	2.94	0.41
1:B:471:GLN:OE1	1:B:471:GLN:N	2.54	0.41
1:B:545:PRO:HG2	1:B:576:ARG:HD3	2.03	0.41
1:B:694:TRP:O	1:B:697:LEU:HB3	2.21	0.41
1:B:779:ILE:HA	1:B:782:LYS:HE3	2.02	0.41
1:B:884:LYS:O	1:B:885:GLU:C	2.63	0.41
1:B:959:LEU:O	1:B:966:THR:OG1	2.38	0.41
1:B:1005:ILE:CA	1:B:1008:ILE:HG22	2.49	0.41
1:B:1129:TYR:CD2	1:B:1184:ARG:HG3	2.56	0.41
1:B:1214:LEU:HA	1:B:1217:ALA:HB3	2.03	0.41
1:A:98:ALA:C	1:A:99:MET:HE3	2.46	0.41
1:A:162:HIS:C	1:A:164:VAL:H	2.28	0.41
1:A:187:GLY:O	1:A:190:PHE:HB3	2.21	0.41
1:A:214:ILE:HG21	1:A:334:VAL:HB	2.03	0.41
1:A:267:LYS:HG2	1:A:793:LEU:HG	2.03	0.41
1:A:311:TRP:HA	1:A:311:TRP:HE3	1.86	0.41
1:A:429:LYS:CB	1:A:581:ILE:HG13	2.44	0.41
1:A:555:SER:O	1:A:556:ALA:C	2.64	0.41
1:A:574:GLU:O	1:A:575:GLY:C	2.61	0.41
1:A:607:ASN:O	1:A:610:GLU:HB2	2.21	0.41
1:A:716:ILE:HG13	1:A:717:ASN:H	1.86	0.41
1:A:760:ILE:O	1:A:762:SER:N	2.54	0.41
1:A:847:LEU:C	1:A:849:TYR:N	2.76	0.41
1:A:857:LEU:HD11	1:A:977:ILE:N	2.34	0.41
1:A:867:ALA:HA	1:A:870:VAL:CG1	2.50	0.41
1:A:886:LEU:HD12	1:A:886:LEU:C	2.46	0.41
1:A:902:THR:OG1	1:A:908:ARG:HD3	2.21	0.41
1:A:914:THR:O	1:A:917:ALA:HB3	2.21	0.41
1:A:970:VAL:HA	1:A:973:VAL:CG2	2.51	0.41
1:A:1100:LEU:HD23	1:A:1105:LEU:HD13	2.02	0.41
1:B:35:VAL:O	1:B:39:PHE:CB	2.46	0.41
1:B:43:GLY:HA3	1:B:46:ASP:HB2	2.01	0.41
1:B:362:PHE:C	1:B:364:ILE:N	2.75	0.41
1:B:468:VAL:HG22	1:B:549:LEU:HD13	2.02	0.41
1:B:709:VAL:O	1:B:712:PHE:HB3	2.21	0.41
1:B:713:CYS:SG	1:B:768:LEU:CG	3.09	0.41
1:B:883:LYS:O	1:B:887:GLU:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:902:THR:C	1:B:904:VAL:HG12	2.44	0.41
1:B:1001:ALA:O	1:B:1002:SER:C	2.63	0.41
1:B:1037:VAL:HG22	1:B:1087:ALA:CB	2.43	0.41
1:B:1038:PHE:HA	1:B:1086:MET:SD	2.61	0.41
1:B:1154:ILE:N	1:B:1154:ILE:HD12	2.36	0.41
1:A:151:ILE:HD12	1:A:167:LEU:HD21	2.02	0.41
1:A:174:ASP:OD1	1:A:361:VAL:HG21	2.21	0.41
1:A:214:ILE:HG12	1:A:331:PHE:CD1	2.56	0.41
1:A:217:ILE:CD1	1:A:218:SER:N	2.68	0.41
1:A:285:ILE:O	1:A:289:ILE:N	2.54	0.41
1:A:464:GLU:C	1:A:466:ILE:H	2.29	0.41
1:A:617:ILE:O	1:A:621:LEU:HD23	2.20	0.41
1:A:718:GLY:CA	1:A:833:PHE:HE1	2.34	0.41
1:A:968:GLU:C	1:A:970:VAL:N	2.79	0.41
1:A:987:VAL:CG1	1:A:988:SER:N	2.82	0.41
1:A:1111:ILE:O	1:A:1112:VAL:CG2	2.69	0.41
1:A:1129:TYR:CD2	1:A:1184:ARG:HG3	2.55	0.41
1:B:129:VAL:CB	1:B:935:GLY:HA2	2.51	0.41
1:B:198:GLY:C	1:B:200:PHE:N	2.78	0.41
1:B:245:LYS:HA	1:B:245:LYS:HZ1	1.85	0.41
1:B:304:ALA:CB	1:B:758:LEU:HB3	2.51	0.41
1:B:431:THR:HA	1:B:434:GLN:OE1	2.21	0.41
1:B:478:THR:CG2	1:B:482:GLU:CB	2.99	0.41
1:B:483:ASN:O	1:B:486:TYR:HB2	2.20	0.41
1:B:500:VAL:HG12	1:B:505:ALA:HB3	2.02	0.41
1:B:695:ARG:C	1:B:697:LEU:H	2.29	0.41
1:B:818:ALA:O	1:B:819:ALA:C	2.64	0.41
1:B:954:ARG:CZ	1:B:954:ARG:HB3	2.51	0.41
1:B:1032:GLN:NE2	1:B:1055:GLU:HB2	2.36	0.41
1:A:55:LEU:O	1:A:56:ALA:C	2.63	0.40
1:A:113:TYR:CG	1:A:114:TYR:N	2.89	0.40
1:A:151:ILE:C	1:A:153:ASN:N	2.78	0.40
1:A:270:LEU:HD23	1:A:270:LEU:N	2.23	0.40
1:A:330:VAL:O	1:A:331:PHE:C	2.64	0.40
1:A:362:PHE:C	1:A:362:PHE:CD1	2.98	0.40
1:A:393:ILE:O	1:A:393:ILE:HG12	2.21	0.40
1:A:547:ILE:HA	1:A:577:THR:O	2.21	0.40
1:A:710:GLY:C	1:A:712:PHE:N	2.78	0.40
1:A:907:THR:N	1:A:908:ARG:CZ	2.84	0.40
1:A:1022:LEU:O	1:A:1023:LYS:O	2.38	0.40
1:A:1202:LEU:HG	1:A:1206:SER:CB	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:211:THR:CA	1:B:214:ILE:HD12	2.48	0.40
1:B:257:ILE:O	1:B:258:ARG:C	2.62	0.40
1:B:303:TYR:O	1:B:306:TYR:CB	2.70	0.40
1:B:560:GLU:C	1:B:560:GLU:CD	2.88	0.40
1:B:694:TRP:C	1:B:697:LEU:HG	2.43	0.40
1:B:747:ASN:O	1:B:749:ASN:N	2.54	0.40
1:B:820:GLN:HG3	1:B:1000:SER:CB	2.52	0.40
1:B:899:ASN:C	1:B:901:ARG:N	2.79	0.40
1:B:907:THR:C	1:B:908:ARG:NE	2.80	0.40
1:B:967:PHE:N	1:B:967:PHE:CD2	2.90	0.40
1:B:987:VAL:CG1	1:B:988:SER:N	2.84	0.40
1:B:1020:GLN:H	1:B:1020:GLN:NE2	2.16	0.40
1:A:172:THR:O	1:A:173:ASP:C	2.64	0.40
1:A:210:LEU:O	1:A:213:VAL:HB	2.21	0.40
1:A:312:TYR:HB3	1:A:313:GLY:H	1.74	0.40
1:A:692:SER:O	1:A:693:PHE:C	2.64	0.40
1:A:719:GLY:O	1:A:720:LEU:C	2.65	0.40
1:A:979:PHE:O	1:A:982:MET:N	2.53	0.40
1:A:1125:GLU:O	1:A:1126:ASN:C	2.64	0.40
1:A:1165:VAL:HG23	1:A:1169:GLY:N	2.36	0.40
1:A:1221:ARG:HD2	1:A:1221:ARG:N	2.36	0.40
1:B:47:ARG:O	1:B:50:MET:HB3	2.21	0.40
1:B:60:HIS:O	1:B:63:ALA:N	2.48	0.40
1:B:267:LYS:O	1:B:790:LYS:HE2	2.21	0.40
1:B:483:ASN:O	1:B:484:ILE:C	2.61	0.40
1:B:512:LEU:HD12	1:B:513:PRO:N	2.36	0.40
1:B:1126:ASN:HD22	1:B:1126:ASN:HA	1.64	0.40
1:B:1139:GLU:CD	1:B:1139:GLU:N	2.78	0.40
1:B:1140:GLU:C	1:B:1142:VAL:N	2.76	0.40
1:B:1172:LEU:HD23	1:B:1172:LEU:HA	1.85	0.40
1:B:1203:ASP:O	1:B:1204:THR:C	2.65	0.40
1:A:74:MET:HG3	1:A:75:THR:N	2.36	0.40
1:A:210:LEU:C	1:A:213:VAL:H	2.29	0.40
1:A:237:ASP:O	1:A:238:LYS:C	2.63	0.40
1:A:310:PHE:HB3	1:A:311:TRP:H	1.64	0.40
1:A:322:TYR:O	1:A:324:ILE:HG13	2.21	0.40
1:A:420:ALA:HB3	1:A:594:ILE:HG13	2.02	0.40
1:A:558:ASP:OD2	1:A:561:SER:HB3	2.22	0.40
1:A:727:ILE:HD12	1:A:754:LEU:CG	2.42	0.40
1:A:898:GLU:O	1:A:901:ARG:NH1	2.55	0.40
1:A:922:ILE:C	1:A:924:TYR:N	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1004:ILE:O	1:A:1004:ILE:CD1	2.63	0.40
1:A:1090:VAL:O	1:A:1096:GLU:HA	2.20	0.40
1:A:1092:LEU:C	1:A:1092:LEU:CD2	2.94	0.40
1:A:1137:SER:O	1:A:1140:GLU:CB	2.70	0.40
1:B:58:ILE:O	1:B:59:ILE:C	2.64	0.40
1:B:118:GLY:O	1:B:121:VAL:HG22	2.21	0.40
1:B:504:ASN:CG	1:B:534:ARG:HD3	2.46	0.40
1:B:839:LEU:O	1:B:840:GLY:C	2.65	0.40
1:B:1066:GLY:N	1:B:1072:LYS:HE2	2.34	0.40
1:B:1132:ASN:O	1:B:1134:ARG:N	2.54	0.40
1:A:70:ILE:HG22	1:A:74:MET:CE	2.52	0.40
1:A:96:LYS:CE	1:A:962:GLN:NE2	2.74	0.40
1:A:147:PHE:O	1:A:150:ALA:HB3	2.22	0.40
1:A:321:GLU:O	1:A:322:TYR:C	2.63	0.40
1:A:439:LEU:HD22	1:A:439:LEU:HA	1.88	0.40
1:A:498:LYS:HE2	1:A:498:LYS:O	2.21	0.40
1:A:509:ILE:HA	1:A:512:LEU:HD23	2.03	0.40
1:A:908:ARG:O	1:A:911:LYS:CA	2.69	0.40
1:A:955:PHE:O	1:A:958:TYR:HB2	2.21	0.40
1:A:1203:ASP:C	1:A:1207:GLU:HG3	2.45	0.40
1:B:261:ILE:HD13	1:B:261:ILE:HA	1.92	0.40
1:B:417:GLN:C	1:B:418:THR:HG22	2.46	0.40
1:B:474:VAL:HG23	1:B:523:ARG:CZ	2.51	0.40
1:B:724:PHE:CD1	1:B:754:LEU:CD2	3.03	0.40
1:B:848:ILE:O	1:B:848:ILE:CD1	2.65	0.40
1:B:850:GLY:O	1:B:851:TRP:HD1	2.02	0.40
1:B:899:ASN:C	1:B:901:ARG:H	2.29	0.40
1:B:914:THR:O	1:B:917:ALA:HB3	2.21	0.40
1:B:939:SER:O	1:B:940:PHE:C	2.63	0.40
1:B:1037:VAL:HG22	1:B:1087:ALA:N	2.37	0.40
1:B:1121:CYS:HB3	1:B:1125:GLU:CB	2.44	0.40
1:B:1159:ASP:O	1:B:1162:ASN:HB2	2.22	0.40
1:B:1267:VAL:HG12	1:B:1270:GLN:OE1	2.21	0.40
1:A:36:LEU:CD1	1:A:37:THR:N	2.84	0.40
1:A:570:ASP:CG	1:A:573:ARG:HH22	2.30	0.40
1:A:708:VAL:HA	1:A:711:ILE:HG22	2.04	0.40
1:A:892:ILE:C	1:A:916:TYR:HE2	2.28	0.40
1:A:954:ARG:CG	1:A:954:ARG:NH1	2.84	0.40
1:A:990:PHE:HB3	1:A:991:ALA:H	1.74	0.40
1:A:1228:HIS:O	1:A:1230:LEU:CD2	2.70	0.40
1:B:161:VAL:O	1:B:162:HIS:O	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:202:ILE:C	1:B:204:PHE:N	2.80	0.40
1:B:260:VAL:HG12	1:B:260:VAL:O	2.21	0.40
1:B:407:LYS:CE	1:B:601:VAL:HA	2.51	0.40
1:B:438:ARG:NH1	1:B:438:ARG:CG	2.74	0.40
1:B:504:ASN:O	1:B:534:ARG:CD	2.70	0.40
1:B:508:PHE:CD1	1:B:508:PHE:C	2.99	0.40
1:B:527:LEU:N	1:B:527:LEU:CD2	2.84	0.40
1:B:581:ILE:O	1:B:582:ALA:HB2	2.21	0.40
1:B:615:LYS:HA	1:B:619:PHE:CG	2.55	0.40
1:B:751:PHE:CD1	1:B:752:SER:N	2.89	0.40
1:B:922:ILE:HB	1:B:923:PRO:CD	2.51	0.40
1:B:1158:PRO:O	1:B:1163:THR:OG1	2.40	0.40
1:B:1208:LYS:O	1:B:1211:GLN:N	2.54	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1099:GLN:CG	1:B:450:ASP:OD1[1_455]	2.03	0.17

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1178/1284 (92%)	678 (58%)	299 (25%)	201 (17%)	0	2
1	B	1178/1284 (92%)	676 (57%)	295 (25%)	207 (18%)	0	2
All	All	2356/2568 (92%)	1354 (58%)	594 (25%)	408 (17%)	0	2

All (408) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	34	SER
1	A	115	THR
1	A	135	ALA
1	A	156	ILE
1	A	164	VAL
1	A	201	ILE
1	A	214	ILE
1	A	216	ALA
1	A	218	SER
1	A	274	ASN
1	A	280	ALA
1	A	308	LEU
1	A	310	PHE
1	A	330	VAL
1	A	358	ALA
1	A	367	ASN
1	A	377	SER
1	A	384	ILE
1	A	385	GLN
1	A	400	ARG
1	A	416	GLY
1	A	471	GLN
1	A	489	GLU
1	A	491	VAL
1	A	514	HIS
1	A	521	GLY
1	A	553	ALA
1	A	555	SER
1	A	598	ASP
1	A	687	ASP
1	A	692	SER
1	A	747	ASN
1	A	757	ILE
1	A	796	ASP
1	A	797	VAL
1	A	798	SER
1	A	804	LYS
1	A	837	ALA
1	A	900	PHE
1	A	909	GLU
1	A	965	MET
1	A	993	ASP
1	A	996	LYS

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Mol	Chain	Res	Type
1	A	1014	ILE
1	A	1017	TYR
1	A	1019	THR
1	A	1020	GLN
1	A	1036	VAL
1	A	1042	THR
1	A	1043	ARG
1	A	1046	ILE
1	A	1057	LYS
1	A	1114	GLN
1	A	1117	ILE
1	A	1120	ASP
1	A	1158	PRO
1	A	1171	GLN
1	A	1198	ALA
1	A	1204	THR
1	A	1244	ASN
1	B	34	SER
1	B	115	THR
1	B	135	ALA
1	B	164	VAL
1	B	201	ILE
1	B	214	ILE
1	B	216	ALA
1	B	218	SER
1	B	274	ASN
1	B	280	ALA
1	B	298	ALA
1	B	308	LEU
1	B	310	PHE
1	B	312	TYR
1	B	322	TYR
1	B	358	ALA
1	B	366	ASP
1	B	367	ASN
1	B	370	SER
1	B	371	ILE
1	B	400	ARG
1	B	416	GLY
1	B	471	GLN
1	B	489	GLU
1	B	491	VAL

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Mol	Chain	Res	Type
1	B	521	GLY
1	B	553	ALA
1	B	555	SER
1	B	574	GLU
1	B	598	ASP
1	B	692	SER
1	B	797	VAL
1	B	798	SER
1	B	804	LYS
1	B	837	ALA
1	B	851	TRP
1	B	900	PHE
1	B	901	ARG
1	B	909	GLU
1	B	958	TYR
1	B	965	MET
1	B	969	ASN
1	B	993	ASP
1	B	994	TYR
1	B	1011	THR
1	B	1012	PRO
1	B	1013	GLU
1	B	1014	ILE
1	B	1015	ASP
1	B	1016	SER
1	B	1021	GLY
1	B	1024	PRO
1	B	1036	VAL
1	B	1042	THR
1	B	1046	ILE
1	B	1057	LYS
1	B	1098	LYS
1	B	1114	GLN
1	B	1117	ILE
1	B	1120	ASP
1	B	1158	PRO
1	B	1171	GLN
1	B	1198	ALA
1	B	1244	ASN
1	A	35	VAL
1	A	42	ALA
1	A	91	MET

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Mol	Chain	Res	Type
1	A	132	TRP
1	A	143	ILE
1	A	152	MET
1	A	199	GLY
1	A	203	GLY
1	A	276	ASN
1	A	282	ARG
1	A	298	ALA
1	A	312	TYR
1	A	328	LEU
1	A	357	ALA
1	A	365	ILE
1	A	366	ASP
1	A	371	ILE
1	A	373	SER
1	A	375	SER
1	A	429	LYS
1	A	515	GLN
1	A	522	GLU
1	A	526	GLN
1	A	589	ARG
1	A	590	ASN
1	A	601	VAL
1	A	603	VAL
1	A	608	HIS
1	A	686	GLU
1	A	700	ASN
1	A	705	PRO
1	A	706	TYR
1	A	734	VAL
1	A	748	SER
1	A	758	LEU
1	A	760	ILE
1	A	761	ILE
1	A	778	GLU
1	A	833	PHE
1	A	839	LEU
1	A	840	GLY
1	A	901	ARG
1	A	908	ARG
1	A	912	PHE
1	A	969	ASN

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Mol	Chain	Res	Type
1	A	1010	LYS
1	A	1012	PRO
1	A	1026	MET
1	A	1093	ASP
1	A	1096	GLU
1	A	1116	PRO
1	A	1130	GLY
1	A	1132	ASN
1	A	1136	VAL
1	A	1138	TYR
1	A	1157	LEU
1	A	1166	GLY
1	A	1170	THR
1	A	1183	ALA
1	A	1184	ARG
1	A	1190	PRO
1	B	42	ALA
1	B	89	THR
1	B	91	MET
1	B	132	TRP
1	B	161	VAL
1	B	162	HIS
1	B	203	GLY
1	B	276	ASN
1	B	282	ARG
1	B	328	LEU
1	B	330	VAL
1	B	357	ALA
1	B	359	TYR
1	B	365	ILE
1	B	372	ASP
1	B	459	VAL
1	B	493	MET
1	B	514	HIS
1	B	515	GLN
1	B	522	GLU
1	B	526	GLN
1	B	573	ARG
1	B	590	ASN
1	B	601	VAL
1	B	603	VAL
1	B	608	HIS

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Mol	Chain	Res	Type
1	B	700	ASN
1	B	705	PRO
1	B	706	TYR
1	B	731	VAL
1	B	734	VAL
1	B	747	ASN
1	B	757	ILE
1	B	758	LEU
1	B	759	GLY
1	B	795	GLN
1	B	796	ASP
1	B	809	ALA
1	B	833	PHE
1	B	839	LEU
1	B	840	GLY
1	B	908	ARG
1	B	912	PHE
1	B	1028	GLU
1	B	1041	PRO
1	B	1070	CYS
1	B	1094	GLY
1	B	1130	GLY
1	B	1132	ASN
1	B	1138	TYR
1	B	1157	LEU
1	B	1166	GLY
1	B	1170	THR
1	B	1183	ALA
1	B	1184	ARG
1	B	1190	PRO
1	B	1230	LEU
1	A	88	SER
1	A	89	THR
1	A	162	HIS
1	A	369	PRO
1	A	425	SER
1	A	493	MET
1	A	707	PHE
1	A	755	PHE
1	A	759	GLY
1	A	795	GLN
1	A	799	TRP

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Mol	Chain	Res	Type
1	A	809	ALA
1	A	835	ASN
1	A	913	GLU
1	A	940	PHE
1	A	948	SER
1	A	952	ALA
1	A	958	TYR
1	A	963	GLN
1	A	1041	PRO
1	A	1059	GLY
1	A	1128	ALA
1	A	1129	TYR
1	A	1137	SER
1	A	1146	LYS
1	A	1207	GLU
1	A	1214	LEU
1	A	1215	ASP
1	A	1262	ILE
1	B	88	SER
1	B	116	GLY
1	B	136	ALA
1	B	152	MET
1	B	209	LYS
1	B	373	SER
1	B	381	PRO
1	B	384	ILE
1	B	385	GLN
1	B	427	CYS
1	B	454	ILE
1	B	589	ARG
1	B	620	LYS
1	B	707	PHE
1	B	748	SER
1	B	755	PHE
1	B	778	GLU
1	B	799	TRP
1	B	911	LYS
1	B	913	GLU
1	B	940	PHE
1	B	948	SER
1	B	949	TYR
1	B	1116	PRO

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Mol	Chain	Res	Type
1	B	1129	TYR
1	B	1136	VAL
1	B	1146	LYS
1	B	1197	GLU
1	B	1204	THR
1	B	1215	ASP
1	B	1262	ILE
1	A	136	ALA
1	A	144	ARG
1	A	155	GLU
1	A	161	VAL
1	A	215	LEU
1	A	359	TYR
1	A	428	GLY
1	A	562	GLU
1	A	731	VAL
1	A	749	ASN
1	A	765	THR
1	A	803	PRO
1	A	852	GLN
1	A	911	LYS
1	A	921	GLN
1	A	937	THR
1	A	1028	GLU
1	A	1070	CYS
1	A	1159	ASP
1	B	35	VAL
1	B	58	ILE
1	B	143	ILE
1	B	208	TRP
1	B	227	ILE
1	B	290	THR
1	B	425	SER
1	B	460	ARG
1	B	513	PRO
1	B	749	ASN
1	B	761	ILE
1	B	803	PRO
1	B	814	LEU
1	B	815	ALA
1	B	921	GLN
1	B	952	ALA

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Mol	Chain	Res	Type
1	B	963	GLN
1	B	1027	LEU
1	B	1093	ASP
1	B	1137	SER
1	B	1203	ASP
1	B	1250	HIS
1	B	1253	HIS
1	A	44	TRP
1	A	45	LEU
1	A	317	VAL
1	A	351	PHE
1	A	620	LYS
1	A	812	THR
1	A	814	LEU
1	A	854	THR
1	A	889	SER
1	A	950	ALA
1	A	1098	LYS
1	A	1127	ILE
1	A	1202	LEU
1	A	1250	HIS
1	B	44	TRP
1	B	299	PHE
1	B	374	PHE
1	B	377	SER
1	B	435	LEU
1	B	545	PRO
1	B	765	THR
1	B	812	THR
1	B	835	ASN
1	B	838	ASN
1	B	1023	LYS
1	B	1043	ARG
1	B	1102	VAL
1	B	1128	ALA
1	B	1202	LEU
1	B	1219	GLU
1	A	58	ILE
1	A	227	ILE
1	A	554	THR
1	A	751	PHE
1	A	764	ILE

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Mol	Chain	Res	Type
1	A	851	TRP
1	A	962	GLN
1	A	1076	VAL
1	A	1197	GLU
1	B	156	ILE
1	B	158	TRP
1	B	462	LEU
1	B	465	ILE
1	B	889	SER
1	B	1059	GLY
1	B	1201	ALA
1	B	1208	LYS
1	A	116	GLY
1	A	217	ILE
1	A	219	PRO
1	A	361	VAL
1	B	137	GLY
1	B	317	VAL
1	B	764	ILE
1	B	361	VAL
1	B	1076	VAL
1	A	405	ILE
1	A	459	VAL
1	A	454	ILE
1	A	991	ALA
1	B	313	GLY
1	B	869	VAL
1	A	198	GLY
1	B	760	ILE

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	975/1064 (92%)	757 (78%)	218 (22%)	1 5
1	B	975/1064 (92%)	766 (79%)	209 (21%)	1 6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	1950/2128 (92%)	1523 (78%)	427 (22%)	1 6

All (427) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	36	LEU
1	A	38	MET
1	A	45	LEU
1	A	59	ILE
1	A	64	LEU
1	A	76	ASP
1	A	83	ASN
1	A	91	MET
1	A	100	PHE
1	A	102	LYS
1	A	107	MET
1	A	113	TYR
1	A	121	VAL
1	A	129	VAL
1	A	131	PHE
1	A	134	LEU
1	A	148	PHE
1	A	155	GLU
1	A	156	ILE
1	A	158	TRP
1	A	171	LEU
1	A	173	ASP
1	A	178	ILE
1	A	182	ILE
1	A	186	ILE
1	A	189	PHE
1	A	190	PHE
1	A	195	THR
1	A	201	ILE
1	A	210	LEU
1	A	217	ILE
1	A	219	PRO
1	A	228	TRP
1	A	236	THR
1	A	238	LYS
1	A	243	TYR
1	A	245	LYS

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Mol	Chain	Res	Type
1	A	252	GLU
1	A	254	LEU
1	A	261	ILE
1	A	267	LYS
1	A	270	LEU
1	A	275	ASN
1	A	282	ARG
1	A	283	LEU
1	A	285	ILE
1	A	289	ILE
1	A	295	MET
1	A	305	SER
1	A	306	TYR
1	A	308	LEU
1	A	314	THR
1	A	318	ILE
1	A	324	ILE
1	A	327	VAL
1	A	330	VAL
1	A	351	PHE
1	A	359	TYR
1	A	366	ASP
1	A	369	PRO
1	A	374	PHE
1	A	381	PRO
1	A	382	ASP
1	A	393	ILE
1	A	397	TYR
1	A	401	LYS
1	A	404	GLN
1	A	409	LEU
1	A	412	LYS
1	A	418	THR
1	A	431	THR
1	A	432	THR
1	A	435	LEU
1	A	438	ARG
1	A	439	LEU
1	A	441	ASP
1	A	443	LEU
1	A	447	VAL
1	A	456	THR

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Mol	Chain	Res	Type
1	A	459	VAL
1	A	469	VAL
1	A	472	GLU
1	A	490	ASP
1	A	498	LYS
1	A	500	VAL
1	A	501	LYS
1	A	502	GLU
1	A	512	LEU
1	A	519	LEU
1	A	527	LEU
1	A	541	LEU
1	A	543	ARG
1	A	547	ILE
1	A	558	ASP
1	A	564	VAL
1	A	577	THR
1	A	578	THR
1	A	579	ILE
1	A	581	ILE
1	A	586	SER
1	A	593	VAL
1	A	613	ARG
1	A	684	LEU
1	A	686	GLU
1	A	687	ASP
1	A	688	VAL
1	A	689	PRO
1	A	693	PHE
1	A	694	TRP
1	A	697	LEU
1	A	709	VAL
1	A	711	ILE
1	A	715	ILE
1	A	716	ILE
1	A	722	PRO
1	A	727	ILE
1	A	751	PHE
1	A	754	LEU
1	A	768	LEU
1	A	769	GLN
1	A	773	PHE

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Mol	Chain	Res	Type
1	A	775	LYS
1	A	780	LEU
1	A	781	THR
1	A	784	LEU
1	A	793	LEU
1	A	795	GLN
1	A	800	PHE
1	A	804	LYS
1	A	806	THR
1	A	820	GLN
1	A	832	ILE
1	A	834	GLN
1	A	838	ASN
1	A	843	ILE
1	A	848	ILE
1	A	851	TRP
1	A	853	LEU
1	A	854	THR
1	A	855	LEU
1	A	857	LEU
1	A	862	PRO
1	A	872	MET
1	A	881	LYS
1	A	882	ASP
1	A	887	GLU
1	A	900	PHE
1	A	901	ARG
1	A	902	THR
1	A	905	SER
1	A	909	GLU
1	A	912	PHE
1	A	914	THR
1	A	919	SER
1	A	921	GLN
1	A	923	PRO
1	A	926	ASN
1	A	945	MET
1	A	954	ARG
1	A	959	LEU
1	A	964	LEU
1	A	969	ASN
1	A	982	MET

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Mol	Chain	Res	Type
1	A	990	PHE
1	A	993	ASP
1	A	996	LYS
1	A	999	VAL
1	A	1004	ILE
1	A	1010	LYS
1	A	1012	PRO
1	A	1014	ILE
1	A	1019	THR
1	A	1020	GLN
1	A	1023	LYS
1	A	1033	PHE
1	A	1037	VAL
1	A	1041	PRO
1	A	1054	LEU
1	A	1055	GLU
1	A	1060	GLN
1	A	1062	LEU
1	A	1064	LEU
1	A	1077	GLN
1	A	1083	TYR
1	A	1084	ASP
1	A	1090	VAL
1	A	1095	LYS
1	A	1099	GLN
1	A	1102	VAL
1	A	1108	GLN
1	A	1109	LEU
1	A	1118	LEU
1	A	1120	ASP
1	A	1131	ASP
1	A	1139	GLU
1	A	1140	GLU
1	A	1158	PRO
1	A	1165	VAL
1	A	1168	LYS
1	A	1180	ILE
1	A	1192	ILE
1	A	1195	LEU
1	A	1204	THR
1	A	1205	GLU
1	A	1214	LEU

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Mol	Chain	Res	Type
1	A	1216	LYS
1	A	1218	ARG
1	A	1226	ILE
1	A	1230	LEU
1	A	1239	ILE
1	A	1242	ILE
1	A	1246	LYS
1	A	1247	VAL
1	A	1252	THR
1	A	1254	GLN
1	A	1259	GLN
1	A	1262	ILE
1	A	1267	VAL
1	B	36	LEU
1	B	38	MET
1	B	55	LEU
1	B	59	ILE
1	B	64	LEU
1	B	76	ASP
1	B	83	ASN
1	B	91	MET
1	B	100	PHE
1	B	102	LYS
1	B	107	MET
1	B	113	TYR
1	B	121	VAL
1	B	129	VAL
1	B	131	PHE
1	B	133	CYS
1	B	134	LEU
1	B	148	PHE
1	B	155	GLU
1	B	156	ILE
1	B	158	TRP
1	B	171	LEU
1	B	173	ASP
1	B	178	ILE
1	B	186	ILE
1	B	189	PHE
1	B	190	PHE
1	B	195	THR
1	B	201	ILE

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Mol	Chain	Res	Type
1	B	209	LYS
1	B	210	LEU
1	B	217	ILE
1	B	219	PRO
1	B	228	TRP
1	B	236	THR
1	B	238	LYS
1	B	243	TYR
1	B	245	LYS
1	B	252	GLU
1	B	254	LEU
1	B	261	ILE
1	B	267	LYS
1	B	270	LEU
1	B	275	ASN
1	B	282	ARG
1	B	285	ILE
1	B	289	ILE
1	B	295	MET
1	B	305	SER
1	B	306	TYR
1	B	308	LEU
1	B	314	THR
1	B	318	ILE
1	B	324	ILE
1	B	327	VAL
1	B	330	VAL
1	B	346	PRO
1	B	351	PHE
1	B	359	TYR
1	B	366	ASP
1	B	369	PRO
1	B	377	SER
1	B	393	ILE
1	B	397	TYR
1	B	401	LYS
1	B	404	GLN
1	B	405	ILE
1	B	409	LEU
1	B	412	LYS
1	B	418	THR
1	B	429	LYS

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Mol	Chain	Res	Type
1	B	435	LEU
1	B	438	ARG
1	B	439	LEU
1	B	441	ASP
1	B	443	LEU
1	B	447	VAL
1	B	454	ILE
1	B	456	THR
1	B	459	VAL
1	B	469	VAL
1	B	472	GLU
1	B	490	ASP
1	B	496	ILE
1	B	498	LYS
1	B	500	VAL
1	B	501	LYS
1	B	502	GLU
1	B	512	LEU
1	B	519	LEU
1	B	527	LEU
1	B	541	LEU
1	B	543	ARG
1	B	547	ILE
1	B	549	LEU
1	B	558	ASP
1	B	564	VAL
1	B	577	THR
1	B	578	THR
1	B	579	ILE
1	B	581	ILE
1	B	586	SER
1	B	593	VAL
1	B	613	ARG
1	B	693	PHE
1	B	694	TRP
1	B	697	LEU
1	B	709	VAL
1	B	711	ILE
1	B	715	ILE
1	B	716	ILE
1	B	722	PRO
1	B	727	ILE

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Mol	Chain	Res	Type
1	B	751	PHE
1	B	754	LEU
1	B	768	LEU
1	B	775	LYS
1	B	780	LEU
1	B	781	THR
1	B	784	LEU
1	B	793	LEU
1	B	795	GLN
1	B	800	PHE
1	B	803	PRO
1	B	804	LYS
1	B	806	THR
1	B	832	ILE
1	B	834	GLN
1	B	838	ASN
1	B	843	ILE
1	B	848	ILE
1	B	851	TRP
1	B	854	THR
1	B	855	LEU
1	B	857	LEU
1	B	862	PRO
1	B	872	MET
1	B	881	LYS
1	B	882	ASP
1	B	887	GLU
1	B	900	PHE
1	B	901	ARG
1	B	902	THR
1	B	905	SER
1	B	908	ARG
1	B	909	GLU
1	B	912	PHE
1	B	914	THR
1	B	919	SER
1	B	921	GLN
1	B	923	PRO
1	B	926	ASN
1	B	945	MET
1	B	954	ARG
1	B	959	LEU

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Mol	Chain	Res	Type
1	B	964	LEU
1	B	965	MET
1	B	969	ASN
1	B	982	MET
1	B	990	PHE
1	B	993	ASP
1	B	996	LYS
1	B	999	VAL
1	B	1004	ILE
1	B	1010	LYS
1	B	1011	THR
1	B	1014	ILE
1	B	1020	GLN
1	B	1024	PRO
1	B	1027	LEU
1	B	1033	PHE
1	B	1037	VAL
1	B	1041	PRO
1	B	1054	LEU
1	B	1055	GLU
1	B	1060	GLN
1	B	1062	LEU
1	B	1064	LEU
1	B	1077	GLN
1	B	1083	TYR
1	B	1084	ASP
1	B	1090	VAL
1	B	1097	ILE
1	B	1098	LYS
1	B	1099	GLN
1	B	1102	VAL
1	B	1108	GLN
1	B	1109	LEU
1	B	1118	LEU
1	B	1120	ASP
1	B	1131	ASP
1	B	1139	GLU
1	B	1140	GLU
1	B	1158	PRO
1	B	1165	VAL
1	B	1168	LYS
1	B	1180	ILE

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Mol	Chain	Res	Type
1	B	1192	ILE
1	B	1195	LEU
1	B	1216	LYS
1	B	1218	ARG
1	B	1230	LEU
1	B	1239	ILE
1	B	1242	ILE
1	B	1246	LYS
1	B	1247	VAL
1	B	1254	GLN
1	B	1259	GLN
1	B	1267	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (87) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	60	HIS
1	A	83	ASN
1	A	87	ASN
1	A	128	GLN
1	A	139	GLN
1	A	141	HIS
1	A	168	ASN
1	A	179	ASN
1	A	274	ASN
1	A	326	GLN
1	A	347	ASN
1	A	379	HIS
1	A	385	GLN
1	A	387	ASN
1	A	394	HIS
1	A	404	GLN
1	A	424	ASN
1	A	434	GLN
1	A	437	GLN
1	A	458	ASN
1	A	526	GLN
1	A	605	GLN
1	A	625	GLN
1	A	721	GLN
1	A	737	ASN
1	A	834	GLN

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Mol	Chain	Res	Type
1	A	838	ASN
1	A	852	GLN
1	A	878	GLN
1	A	918	GLN
1	A	932	HIS
1	A	962	GLN
1	A	969	ASN
1	A	1003	HIS
1	A	1020	GLN
1	A	1032	GLN
1	A	1099	GLN
1	A	1108	GLN
1	A	1114	GLN
1	A	1149	ASN
1	A	1235	ASN
1	A	1244	ASN
1	A	1270	GLN
1	B	60	HIS
1	B	83	ASN
1	B	87	ASN
1	B	128	GLN
1	B	139	GLN
1	B	141	HIS
1	B	149	HIS
1	B	153	ASN
1	B	168	ASN
1	B	179	ASN
1	B	274	ASN
1	B	326	GLN
1	B	347	ASN
1	B	379	HIS
1	B	383	ASN
1	B	385	GLN
1	B	387	ASN
1	B	394	HIS
1	B	404	GLN
1	B	424	ASN
1	B	583	HIS
1	B	605	GLN
1	B	625	GLN
1	B	721	GLN
1	B	737	ASN

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Mol	Chain	Res	Type
1	B	747	ASN
1	B	795	GLN
1	B	834	GLN
1	B	838	ASN
1	B	878	GLN
1	B	921	GLN
1	B	926	ASN
1	B	932	HIS
1	B	963	GLN
1	B	969	ASN
1	B	1003	HIS
1	B	1032	GLN
1	B	1099	GLN
1	B	1108	GLN
1	B	1114	GLN
1	B	1149	ASN
1	B	1235	ASN
1	B	1244	ASN
1	B	1270	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 12 ligands modelled in this entry, 12 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	1182/1284 (92%)	0.39	73 (6%) 26 22	36, 127, 195, 207	0
1	B	1182/1284 (92%)	0.35	56 (4%) 36 27	47, 141, 200, 207	0
All	All	2364/2568 (92%)	0.37	129 (5%) 30 23	36, 135, 198, 207	0

All (129) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	299	PHE	7.3
1	B	205	THR	6.5
1	A	1017	TYR	6.4
1	A	207	GLY	5.2
1	A	191	GLN	4.8
1	A	416	GLY	4.1
1	A	108	THR	4.1
1	A	719	GLY	4.1
1	B	274	ASN	4.0
1	B	802	ASP	3.9
1	A	205	THR	3.9
1	A	957	ALA	3.7
1	A	327	VAL	3.7
1	B	112	TYR	3.7
1	A	623	MET	3.7
1	A	962	GLN	3.5
1	B	970	VAL	3.5
1	B	785	ARG	3.5
1	B	292	ASN	3.5
1	A	773	PHE	3.5
1	B	1129	TYR	3.5
1	B	306	TYR	3.4
1	B	266	GLN	3.4
1	A	275	ASN	3.4

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Mol	Chain	Res	Type	RSRZ
1	B	822	LYS	3.4
1	B	385	GLN	3.3
1	A	625	GLN	3.3
1	A	287	LYS	3.3
1	B	303	TYR	3.2
1	A	274	ASN	3.0
1	B	278	GLU	3.0
1	A	1084	ASP	3.0
1	A	299	PHE	3.0
1	A	574	GLU	2.9
1	B	1241	VAL	2.9
1	A	310	PHE	2.9
1	A	1123	ILE	2.9
1	A	110	TYR	2.9
1	A	450	ASP	2.8
1	A	383	ASN	2.8
1	B	990	PHE	2.8
1	B	1070	CYS	2.8
1	A	854	THR	2.8
1	B	208	TRP	2.8
1	B	276	ASN	2.8
1	A	128	GLN	2.7
1	B	1198	ALA	2.7
1	A	704	TRP	2.7
1	A	1240	VAL	2.7
1	A	243	TYR	2.7
1	A	961	THR	2.7
1	B	310	PHE	2.7
1	B	104	GLU	2.7
1	B	926	ASN	2.7
1	B	928	MET	2.7
1	B	300	LEU	2.7
1	A	311	TRP	2.6
1	B	264	GLY	2.6
1	B	1094	GLY	2.6
1	A	990	PHE	2.6
1	A	148	PHE	2.6
1	A	743	THR	2.5
1	A	1244	ASN	2.5
1	A	744	GLN	2.5
1	A	1012	PRO	2.5
1	A	977	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
1	B	452	GLN	2.5
1	A	34	SER	2.5
1	B	930	LYS	2.4
1	A	98	ALA	2.4
1	B	1048	VAL	2.4
1	B	158	TRP	2.4
1	A	73	ASP	2.4
1	B	766	PHE	2.4
1	A	1092	LEU	2.4
1	A	913	GLU	2.4
1	A	582	ALA	2.4
1	A	841	THR	2.4
1	B	1103	GLN	2.4
1	A	749	ASN	2.4
1	B	927	ALA	2.4
1	A	325	GLY	2.3
1	B	876	SER	2.3
1	B	1188	ARG	2.3
1	A	554	THR	2.3
1	A	573	ARG	2.3
1	A	965	MET	2.3
1	B	875	LEU	2.3
1	A	949	TYR	2.3
1	A	910	GLN	2.3
1	B	1205	GLU	2.3
1	B	184	ASP	2.3
1	A	276	ASN	2.3
1	B	796	ASP	2.3
1	A	353	ASN	2.2
1	B	228	TRP	2.2
1	B	934	PHE	2.2
1	A	33	VAL	2.2
1	B	1220	GLY	2.2
1	A	103	LEU	2.2
1	B	953	PHE	2.2
1	A	768	LEU	2.2
1	B	187	GLY	2.2
1	A	460	ARG	2.2
1	B	511	LYS	2.2
1	A	1127	ILE	2.2
1	B	293	ILE	2.2
1	B	773	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	1026	MET	2.2
1	B	460	ARG	2.1
1	B	1191	HIS	2.1
1	A	1044	PRO	2.1
1	B	56	ALA	2.1
1	A	993	ASP	2.1
1	A	1219	GLU	2.1
1	A	254	LEU	2.1
1	A	1098	LYS	2.1
1	B	524	GLY	2.1
1	A	132	TRP	2.1
1	A	1124	ALA	2.1
1	B	960	VAL	2.1
1	A	208	TRP	2.0
1	A	314	THR	2.0
1	B	1260	LYS	2.0
1	B	874	MET	2.0
1	A	1182	ILE	2.0
1	A	331	PHE	2.0
1	A	1100	LEU	2.0
1	A	701	SER	2.0

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

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	HG	A	1286	1/1	0.60	0.30	166,166,166,166	1
2	HG	B	1286	1/1	0.80	0.25	109,109,109,109	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	HG	A	1290	1/1	0.92	0.06	147,147,147,147	0
2	HG	B	1288	1/1	0.92	0.17	147,147,147,147	0
2	HG	B	1287	1/1	0.94	0.05	147,147,147,147	0
2	HG	A	1288	1/1	0.96	0.07	147,147,147,147	0
2	HG	B	1285	1/1	0.97	0.04	147,147,147,147	0
2	HG	A	1285	1/1	0.97	0.04	147,147,147,147	0
2	HG	A	1289	1/1	0.98	0.06	147,147,147,147	0
2	HG	A	1287	1/1	0.98	0.04	147,147,147,147	0
2	HG	B	1289	1/1	0.98	0.06	147,147,147,147	0
2	HG	B	1290	1/1	0.99	0.03	147,147,147,147	0

6.5 Other polymers [i](#)

There are no such residues in this entry.