



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 2, 2026 – 02:20 AM UTC

PDB ID : 3AOI / pdb_00003aoi
Title : RNA polymerase-Gfh1 complex (Crystal type 2)
Authors : Tagami, S.; Sekine, S.; Kumarevel, T.; Yamamoto, M.; Yokoyama, S.; RIKEN
Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2010-09-30
Resolution : 4.30 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4-5-2 with Phenix2.0
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

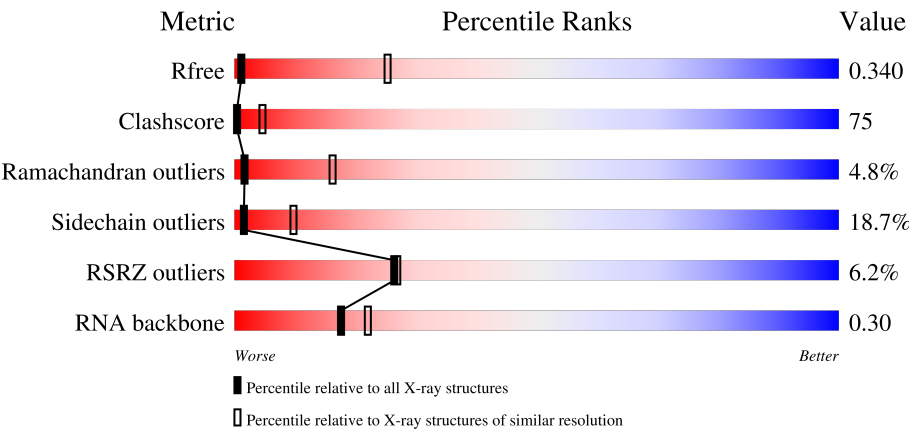
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 4.30 Å.

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



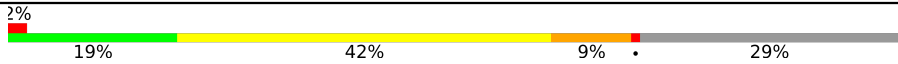
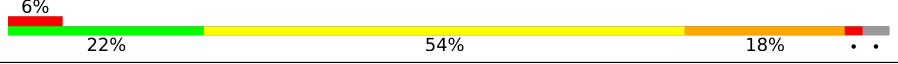
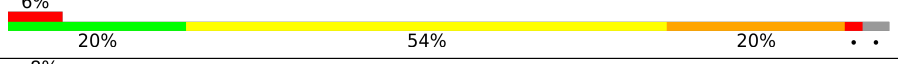
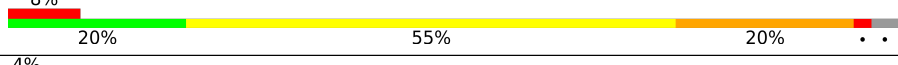
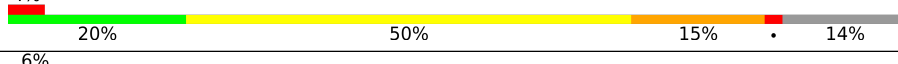
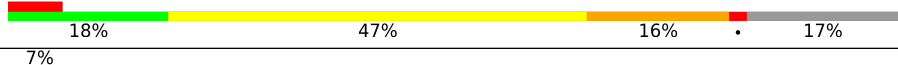
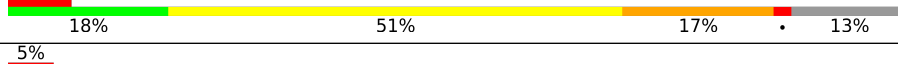
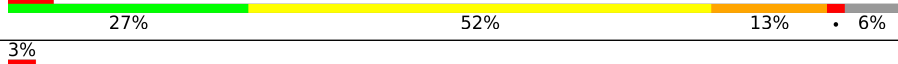
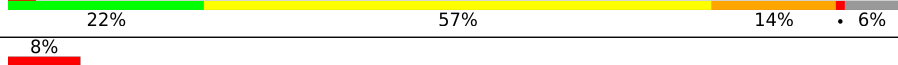
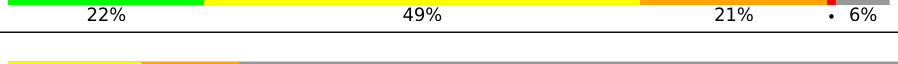
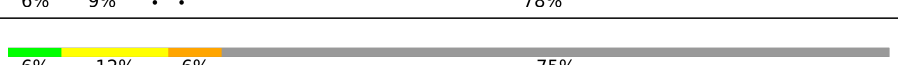
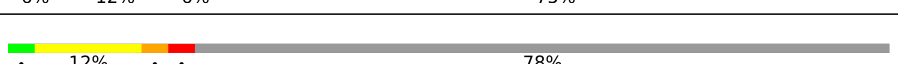
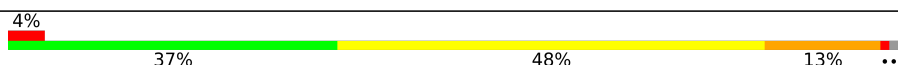
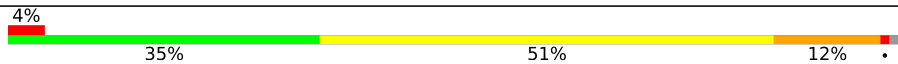
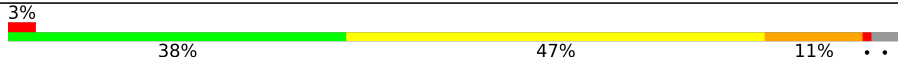
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	180053	1052 (4.70-3.90)
Clashscore	190562	1097 (4.70-3.90)
Ramachandran outliers	187476	1001 (4.70-3.90)
Sidechain outliers	187428	1007 (4.72-3.88)
RSRZ outliers	180081	1049 (4.70-3.90)
RNA backbone	3983	1036 (5.50-3.10)

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

Mol	Chain	Length	Quality of chain
1	A	315	2% 17%43%10%29%
1	B	315	3% 19%40%12%29%
1	F	315	4% 19%41%10%29%
1	G	315	3% 20%38%12%29%

Continued on next page...

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Mol	Chain	Length	Quality of chain
1	K	315	
1	L	315	
2	C	1119	
2	H	1119	
2	M	1119	
3	D	1524	
3	I	1524	
3	N	1524	
4	E	99	
4	J	99	
4	O	99	
5	P	27	
5	R	27	
5	T	27	
6	Q	32	
6	S	32	
6	U	32	
7	X	156	
7	Y	156	
7	Z	156	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
9	MG	S	2005	-	-	-	X

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 73646 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 DNA-directed RNA polymerase subunit alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	B	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	F	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			
1	G	224	Total	C	N	O	S	0	0	0
			1764	1126	307	329	2			
1	K	225	Total	C	N	O	S	0	0	0
			1769	1129	308	330	2			
1	L	223	Total	C	N	O	S	0	0	0
			1759	1123	306	328	2			

- Molecule 2 is a protein called DNA-directed RNA polymerase subunit beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1083	Total	C	N	O	S	0	0	0
			8550	5413	1525	1588	24			
2	H	1080	Total	C	N	O	S	0	0	0
			8524	5395	1521	1584	24			
2	M	1084	Total	C	N	O	S	0	0	0
			8555	5413	1528	1590	24			

- Molecule 3 is a protein called DNA-directed RNA polymerase subunit beta'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1316	Total	C	N	O	S	0	0	0
			10384	6574	1840	1941	29			
3	I	1262	Total	C	N	O	S	0	0	0
			9965	6314	1765	1858	28			
3	N	1327	Total	C	N	O	S	0	0	0
			10475	6634	1852	1961	28			

- Molecule 4 is a protein called DNA-directed RNA polymerase subunit omega.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			
4	J	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			
4	O	93	Total	C	N	O	S	0	0	0
			754	481	131	138	4			

- Molecule 5 is a DNA chain called DNA (5'-D(*GP*GP*TP*CP*TP*GP*TP*AP*TP*CP*AP*CP*GP*AP*GP*CP*CP*A*CP*CP*GP*CP*CP*GP*CP*AP*T)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	P	7	Total	C	N	O	P	0	0	0
			136	65	25	40	6			
5	R	6	Total	C	N	O	P	0	0	0
			119	57	24	33	5			
5	T	5	Total	C	N	O	P	0	0	0
			98	47	19	28	4			

- Molecule 6 is a RNA chain called RNA (5'-R(*CP*CP*CP*GP*GP*AP*AP*GP*AP*UP*CP*AP*UP*CP*UP*UP*CP*CP*GP*GP*GP*GP*GP*AP*U*GP*CP*GP*GP*CP*GP*G)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	Q	7	Total	C	N	O	P	0	0	0
			152	68	31	47	6			
6	S	8	Total	C	N	O	P	0	0	0
			172	77	33	55	7			
6	U	7	Total	C	N	O	P	0	0	0
			152	68	31	47	6			

- Molecule 7 is a protein called Anti-cleavage anti-GreA transcription factor Gfh1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	X	154	Total	C	N	O	S	0	0	0
			1189	730	212	243	4			
7	Y	152	Total	C	N	O	S	0	0	0
			1169	719	207	239	4			
7	Z	152	Total	C	N	O	S	0	0	0
			1169	719	207	239	4			

- Molecule 8 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	D	1	Total 1	Zn 1	0	0
8	I	1	Total 1	Zn 1	0	0
8	N	1	Total 1	Zn 1	0	0

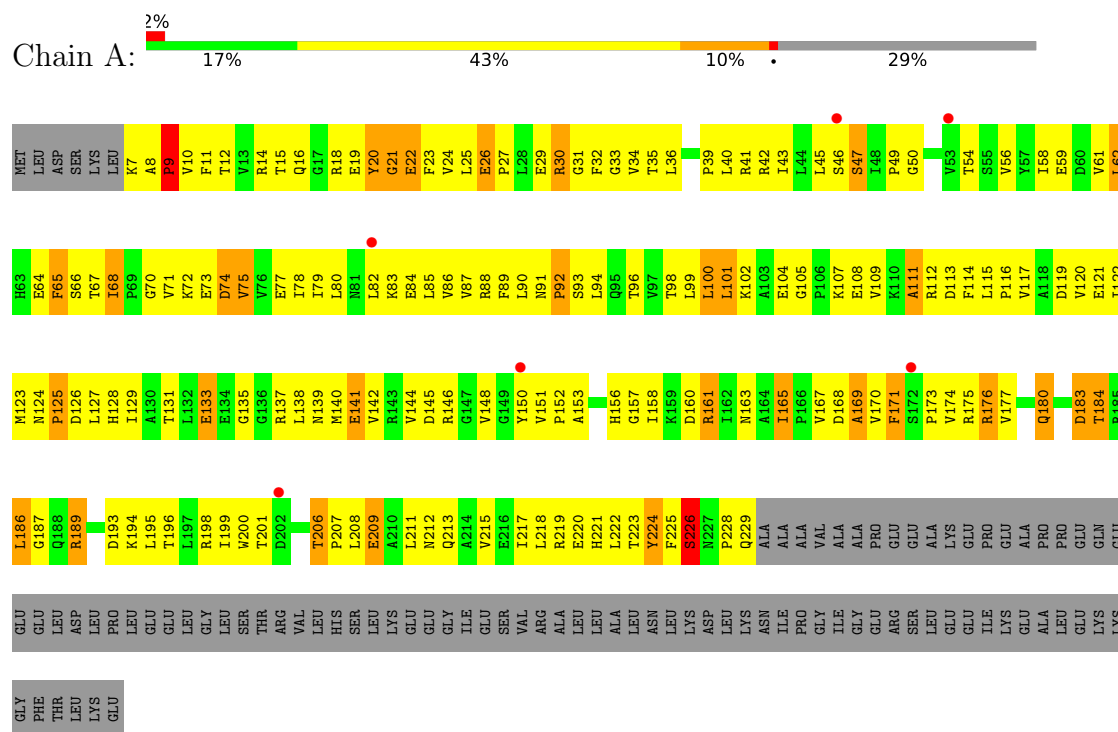
- Molecule 9 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	D	1	Total 1	Mg 1	0	0
9	N	1	Total 1	Mg 1	0	0
9	S	1	Total 1	Mg 1	0	0

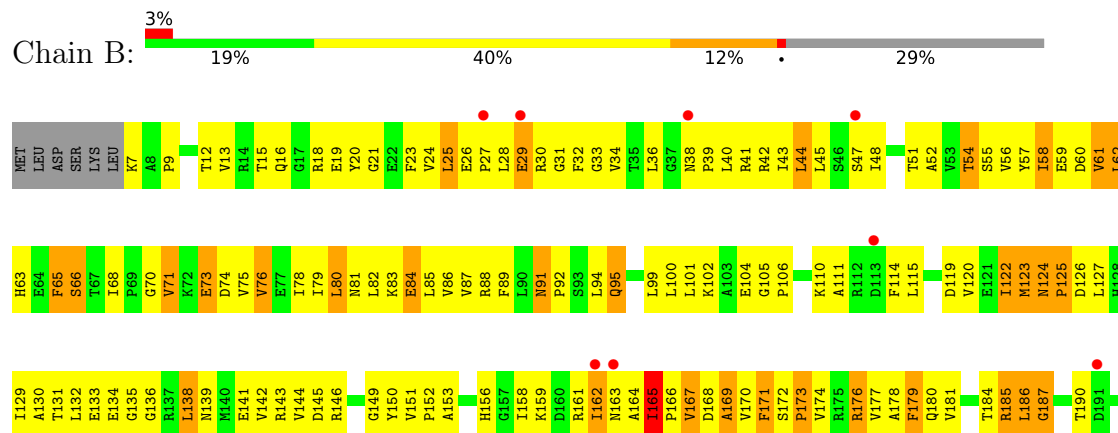
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

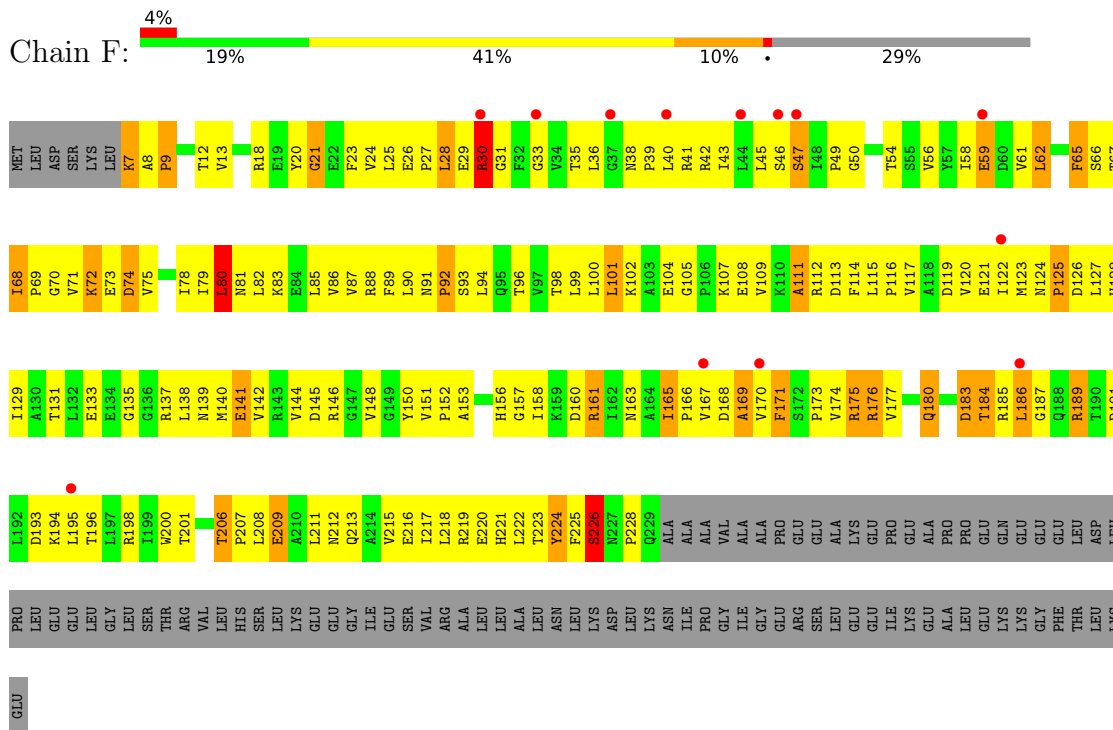
• Molecule 1: DNA-directed RNA polymerase subunit alpha



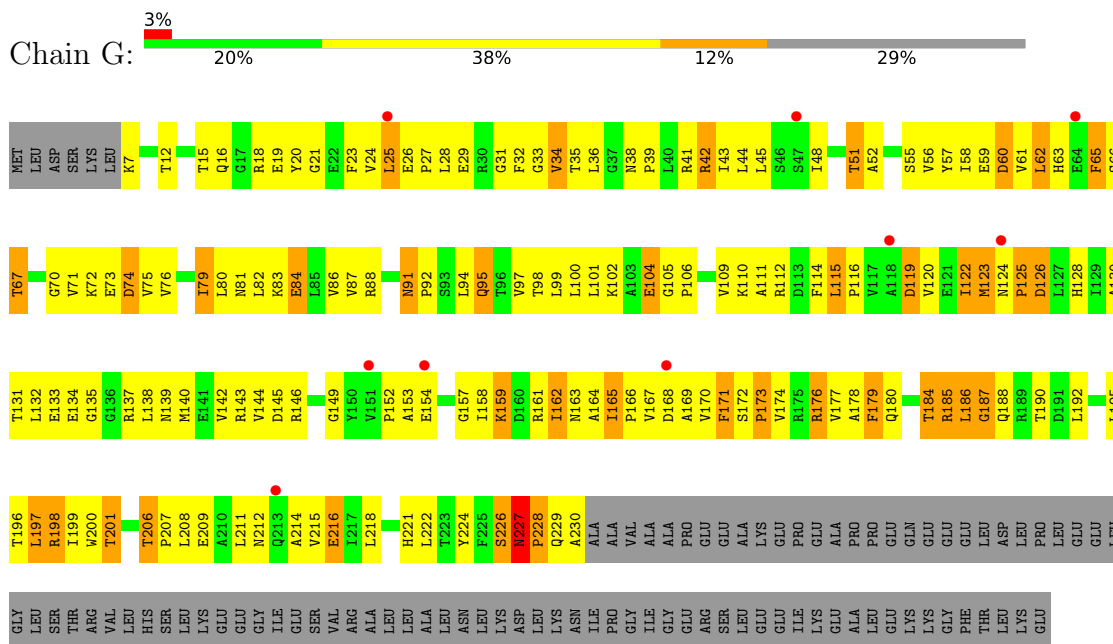
• Molecule 1: DNA-directed RNA polymerase subunit alpha



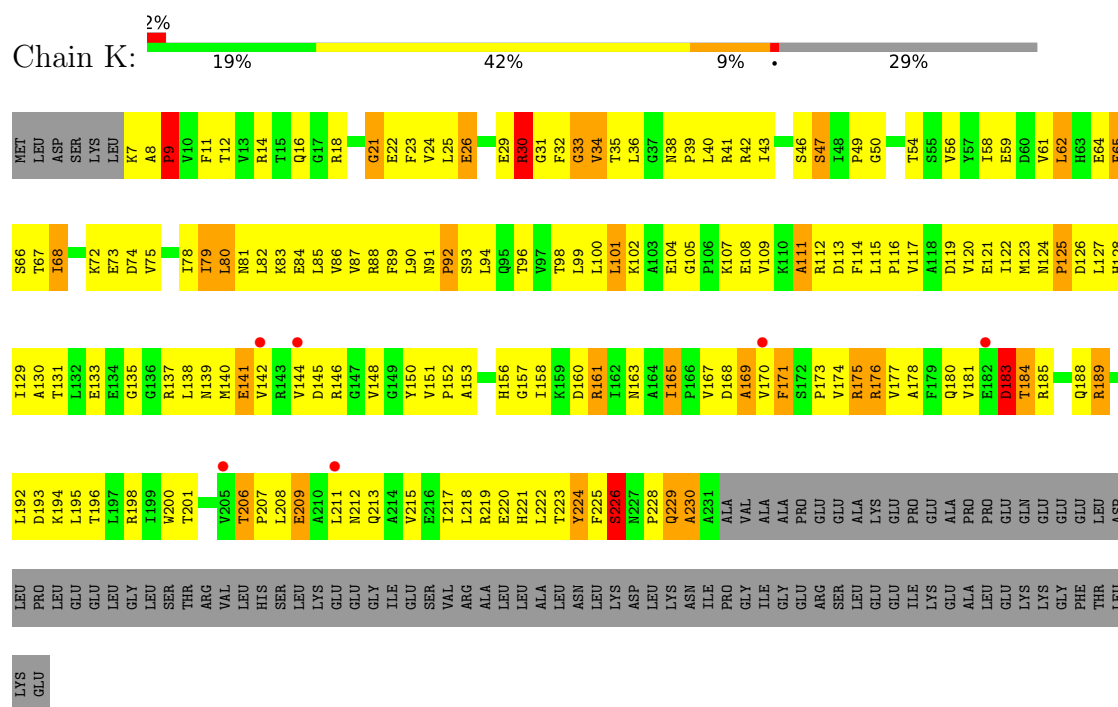
- Molecule 1: DNA-directed RNA polymerase subunit alpha



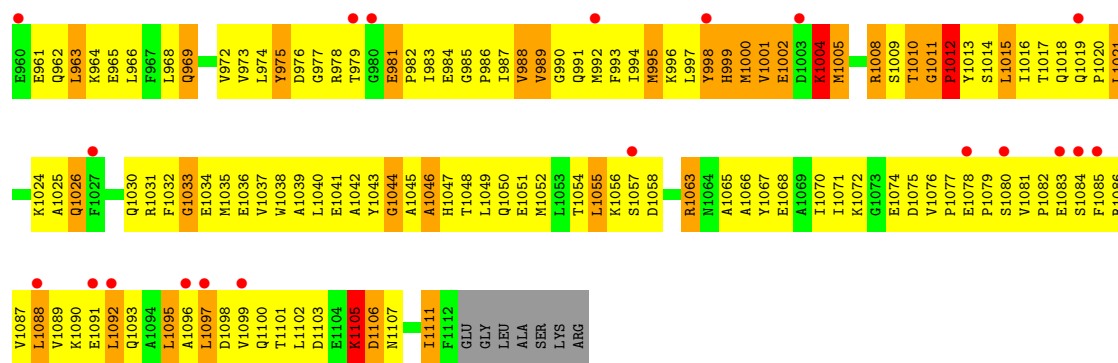
- Molecule 1: DNA-directed RNA polymerase subunit alpha



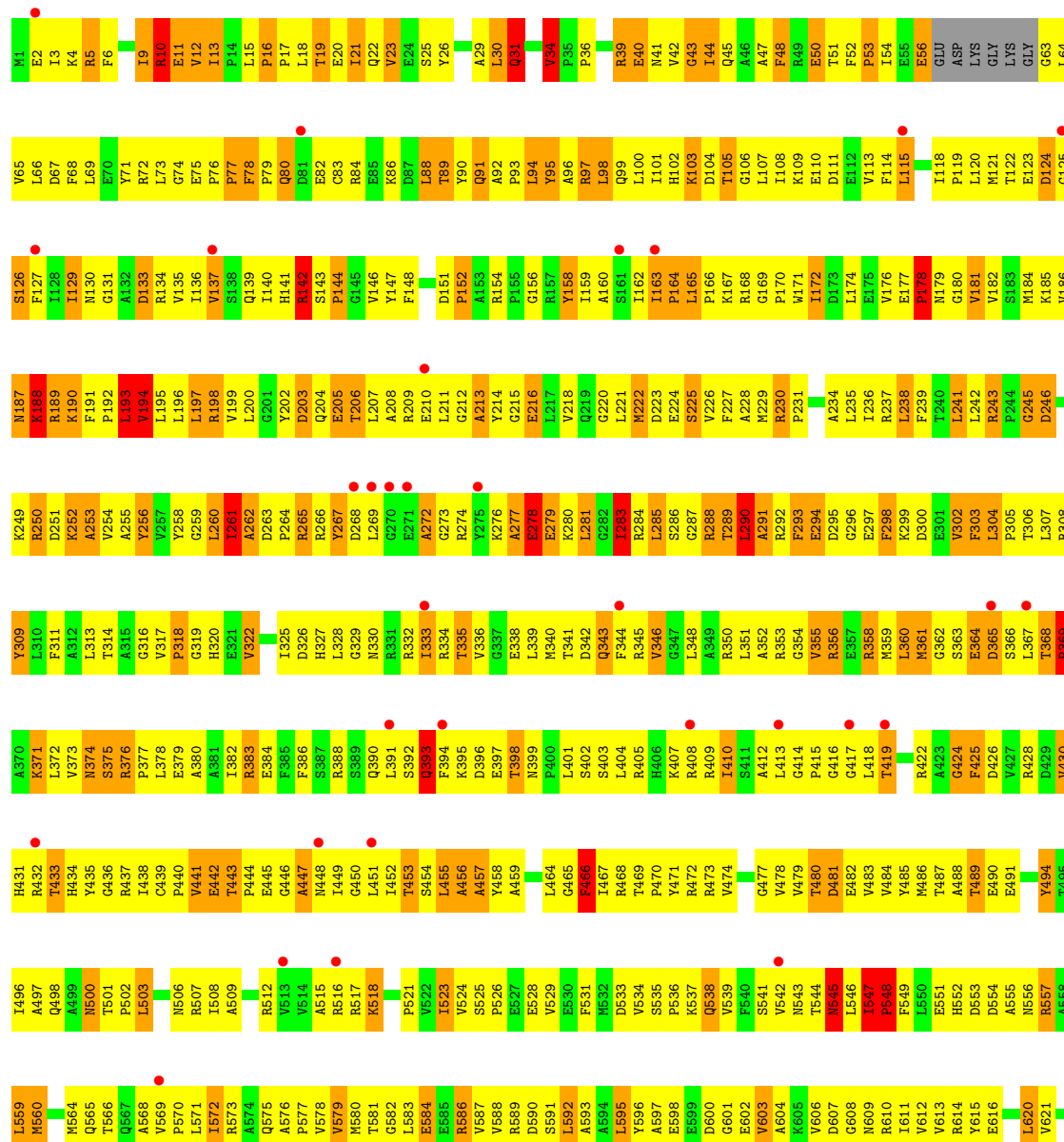
- Molecule 1: DNA-directed RNA polymerase subunit alpha



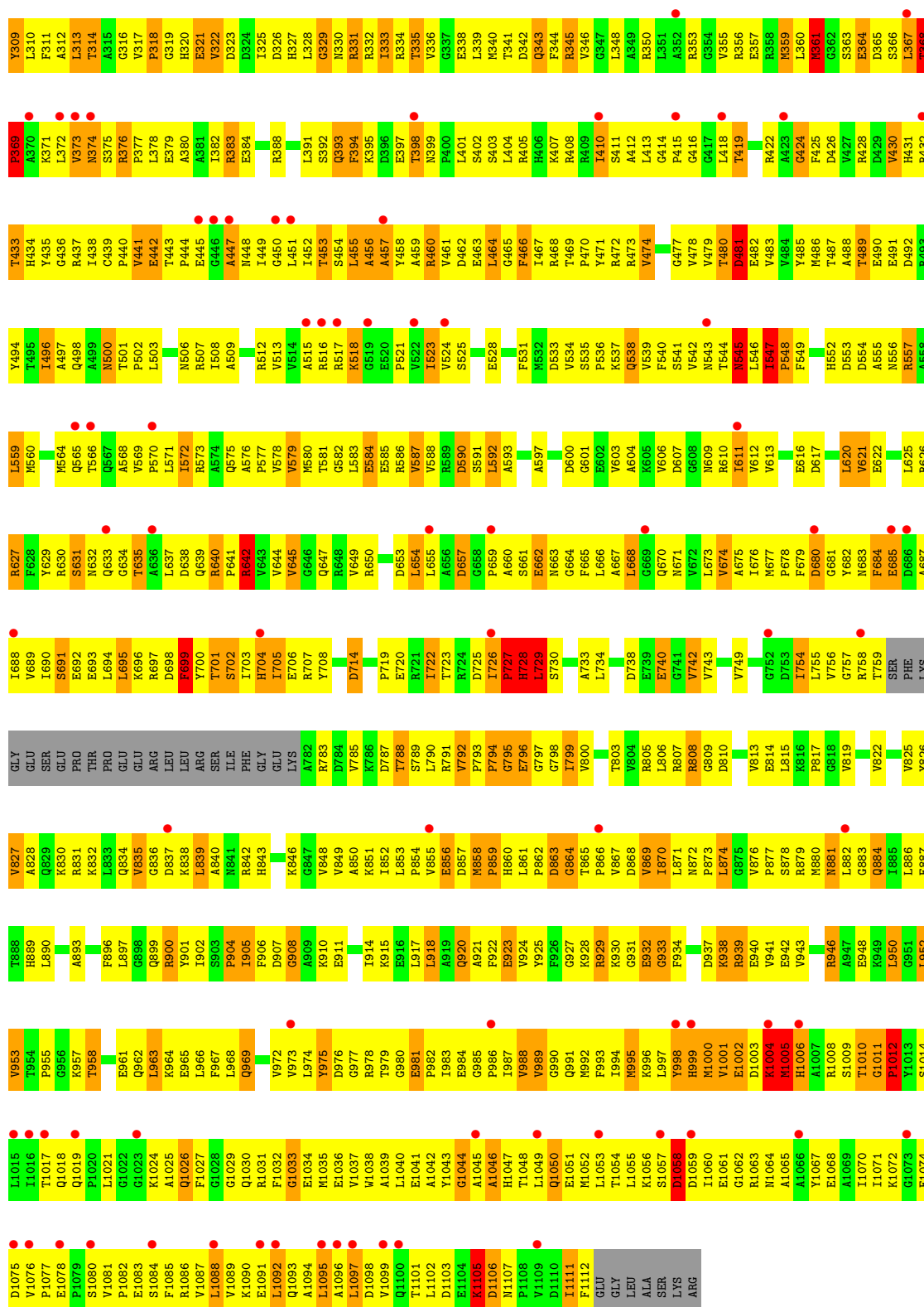
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Q899	Q899	THR	E694	N632	A568	L503	P440	P377	A315	A255	F191	F127	L66
R900	Q636	PRD	L695	Q633	V669		V441	L378	G316	V256	P192	I128	D67
Y901	D837	GLU	K696	G634	P570		E442	E379	V317	V257	L193	I129	F68
I902	K838	GLU	R697	T635	L571	N506	T443	A380	P318	V258	V194	N130	L69
S903	L839	ARG	D698	A636	L572	R507	T444	A381	G319	G259	L195	G131	E70
P904	A840	LSU	F699	L637	R573	L508	E445	L382	H320	G260	L196	A132	Y71
I905	R841	LSU	Y700	D638	A574	A509	G446	E383	G321	L261	L197	D133	R72
F906	R842	ARG	Q639	Q639	Q575		G447	E384	V322	A262	R198	R134	L73
D907	H843	SER	Q640	R640	A576	R512	N448	F385		D263	V199	V135	G74
G908		ILE	H704	P841	P577	R513	I449		I325	D264	L200	I136	G74
A909	K846	PHE	I705	R642	V578	V514	G450	S389	D326	R265	G201	V137	E75
Q910	G847	GLY	F706	V643	A515	R516	L451	Q390	H327	R266	Y202	S138	P77
E911	G848	GLU	R707	G644	N580	R517	I452	L391	L328	Y267	D203	Q139	F78
	R849	LVS	Y708	V645	T581	R518	T453	S392	G329	D268	Q204	I140	P79
	R850	ALA	E709	G646	G582	R519	S454	S393	N330	D269	E205	H141	R80
I914	R851	ARG	I710	Q647	L583	G519	L455	F394	R331	G270	T206	R142	D81
K915	L852	ASP		R650	E584	E520	A456	K395	R332	E271	L207	S143	E82
E916	L853	VAL	D714		E585	P521	A457	D396	L339	A272	K208	P144	C83
L918	R854				R886	V522	Y458	E397	R334	G273	R209	G145	R84
A919	V855	R787	L717	D653	V587	I523	A459	T398	T335	R274	E210	V146	E85
R920	R856	T788		L654	V588	V524	R460	N399	V336	Y275	L211	Y147	K86
A921	D857	S789	E720	L655	R889	S525	V461	P400	G337	K276	G212	F148	B87
F922	L858	L790	R721	A656	D690	P526	D462	L401	E338	A277	K213	I149	L88
E923	R859	R791	T722	D657	S591	E527	E463	S402	L339	E278	Y214	P150	T89
V924	H860	V792	T723	G658	L592	E528	L464	S403	M340	E279	G215	D151	Y90
Y925	L861	P793	R724	P659	A593		G465	L404	T341	K280	E216	P152	Q91
F926	R862	P794	G725	A660		F531	F466	R405	D342	L281	L217	A153	A92
G927	D863	G795	I726	S661	A597	M532	I467	H486	Q343	G282	V218	R154	P93
K928	R864	E796	R727	R662	E598	D633	R468	K407	F344	K283	Q219	R155	P94
R929	T865	G797	H728	N663		V534	T469	R408	R345	E284	G220	G156	L95
Q930	R866	G798	L729	G664	G601	S535	P470	R409	V346	L285	L221	P164	K103
R931	P867	I799	S730	F665	E602	P536	Y471	L410	G347	S286	M222	R157	A96
E932	D868	V600	E731	L666	V603	K537	R472	L411	V348	G287	D223	Y158	R97
G933	R869			A667	A604	Q538	R473	A412		K288	E224	I159	L98
F934	L870	T903	L734	R668	K605	V539	V474	L413		R289	S225	S161	Q99
			R735	R669	V606	F540	V474		L361	A352	S226	G160	L100
D937	R871	V804		L871	G669	F540		G414	R352	I162	V226	I162	I101
K938	R872	R805		N670	D607	S541	G477	P415	R353	A291	F227	I163	H102
R873	L806	P873	D738	N671	V542	V542	V478	G416	G354	R292	A228	P164	K103
R939	R874	R807	E739	G608	G608	N543	V479	G417	V355	F293	M229	L165	D104
E940	G875	R808	E740	V672	R610	T544	T480	L418	R356	E294	R230		T105
V941	R876	G809	G741	V674	L611	A545	D481	I419	E367	D295	P231	P170	G106
E942	R877	D910	V742	A675	V612	L546	E482		R358	G296	E232	V171	L107
V943	R878		V743	I676	V613	P543	V483		M359	E297	E233	I172	K108
	R879			R614	R614	R548			L360	F298	A234	D173	I109
		V813		G677	R614	F549			M361	K299	L285	L174	E110
R946	R880	E814	G752	P678	V615		N486	G424	G362	D300	L236	E175	D111
E947	L881	L815	D753	F679	E616		T487	F485	R237	E301	R237		E112
L882	R882	R916	I754	D880	D617	H552	A488	D426	S363	V302	L238		F113
K949	R883	P817	L755	G681	R618	D553	T489	V427	E364	F302	V133	P178	N179
L950	Q884	G818	V756	Y882	E490	D554	T480	R428	D365	F303			F114
	G951	V819	R756	N883	E491	A555	D491	G429	S366	L304	L241	G180	L115
L886	R886	G757	G757	N883	L620	N556	D492	V430	L367	P305	L242	Y181	G116
I952	L886	R758	V621	F684	V621	N556	D492	V430	T368	T306	R243	V182	H117
V953	E887	T759	E622	E885	E622	R557	R493	H431	P369	L307	P244		H117
F954		S760	D696	A558		A558	Y494	R432	R369	R308			I118
P955	L890	R824	R687	L625	L625	L559	T495	T433	A370	L307			I118
				F761	R627	M560	I496	H434	K371	Y309	K249	M184	P119
K957	A893		G1Y	V889	R627		I496	Y435	L372	R260	R250	V186	L120
R958	K930	K930	GLY	R689	E628	M564	Q498	H436	R310	F311	D251	V187	L121
F960		R931	GFJ	S691	V629	M564	Q498	G436	V373	F311	T122	K199	E122



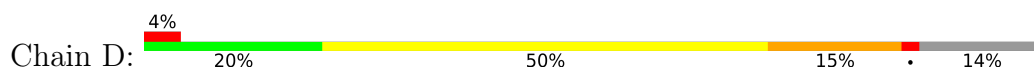
• Molecule 2: DNA-directed RNA polymerase subunit beta







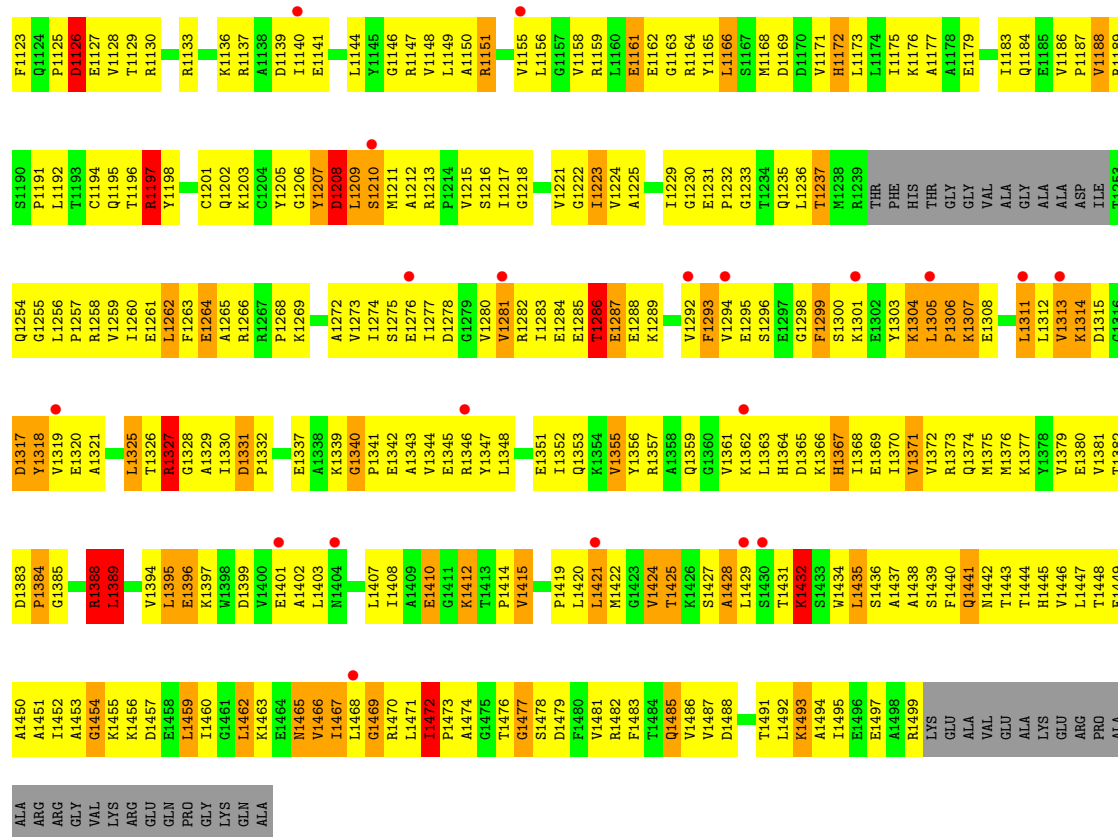
• Molecule 3: DNA-directed RNA polymerase subunit beta'



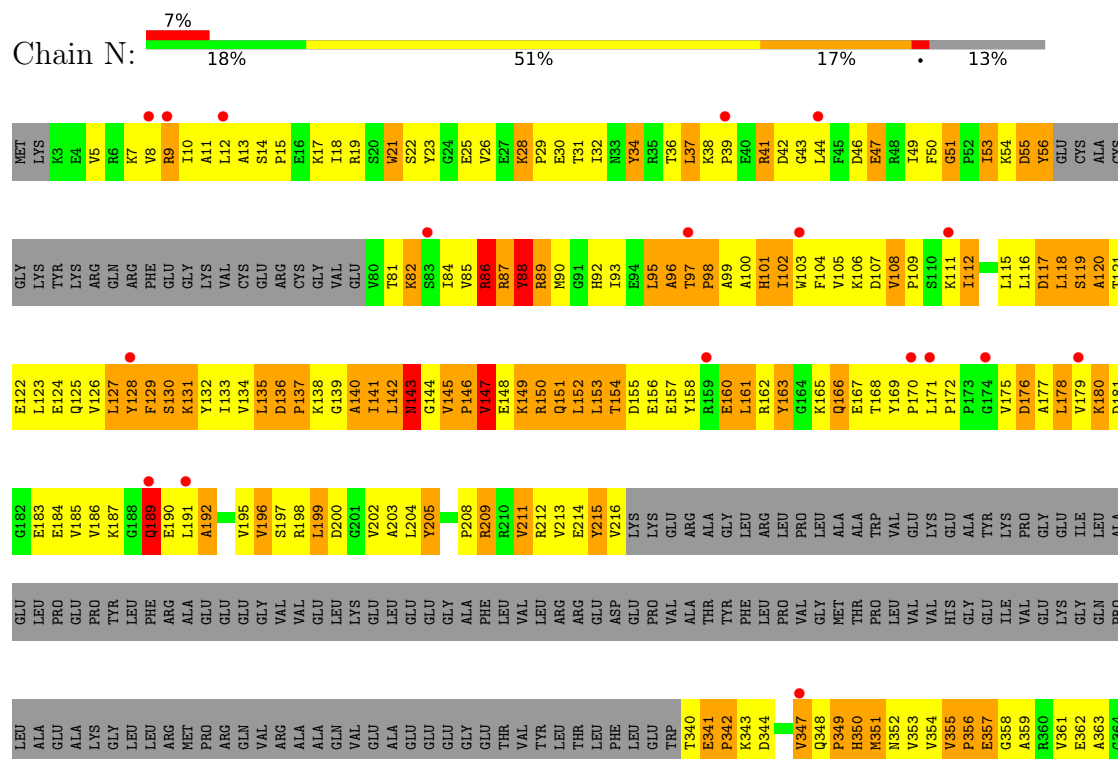
V890	P826	Q762	V699	G634	V498	V437	I371	GLY	TYR	G188	L127	LYS	K1
E891	I827	H763	V700	P635	V499	D438	E376	LEU	LEU	Q189	Y128	ARG	K2
D892	K828	L764	L701	Q636	F502	R441	E377	ARG	PHE	E190	F129	GLN	K3
E893	V829	S765	L702	L637	D504	V443	V376	MET	ARG	L191	S130	ARG	V8
K894	A830	K638	R703	K638	S506	V443	A378	PRO	GLU	A192	X131	PHE	R9
V895	G831	H767	R704	N569	S506	V444	A379	ARG	GLU	P193	Y132	GLY	I10
A896	E832	H640	R705	H640	G506	V445	G383	GLN	GLU	G194	I133	GLY	I11
H897	E833	L770	P706	Q641	N507	V446	V384	VAL	GLU	V195	V134	LYS	A11
E898	T834	S771	T707	C642	M507	V446	V384	VAL	GLY	V196	L135	VAL	L12
L899	S835	P772	L708	G643	R508	V447	V385	ARG	VAL	S197	D136	CYS	A13
I900	V836	A773	H709	L644	L574	L574	H386	ALA	VAL	R198	P137	GLU	S14
Q901	G837	A774	R710	P645	E510	S449	L387	ALA	VAL	L199	K138	ARG	P15
L902	R838	S774	L711	K646	W511	Y450	H388	GLN	LEU	D200	G139	CYS	E16
D903	L839	L778	G712	R647	R577	D451	E389	VAL	LYS	G201	I140	GLY	K17
	K840	A779	I713	R648	V578	I452	P390	ALA	GLU	L204	I141	VAL	I18
Q906	H841	K780	Q714	R649	L513	D452	P391	ALA	LEU	L142	I142	GLU	R19
E907	V842	L781	A715	L650	E515	A454	A391	GLU	LEU	Y206	N143	VAL	S20
K908	F843	S782	F716	A580	E515	A454	S392	GLU	GLU	R206	G144	THR	W21
N909	A844	R783	Q717	E651	A516	R455	I393	GLU	GLY	F207	G145	LYS	S22
S910	N845	D784	P718	L652	W517	M456	L394	GLU	ALA	P208	V146	SER	Y23
L911	P846	L785	V719	F653	P518	G457	V395	GLY	PHE	R209	V147	ILE	G24
	D847	I786	L720	K654	V519	A458	V396	GLU	THR	R210	E148	LEU	E25
L914	E848	L787	V721	F655	P521	A460	A398	VAL	VAL	V211	K149	ARG	V26
V915	A849	G788	E722	L657	P522	I461	R399	TYR	ARG	R212	R150	THR	E27
	L850	L789	G723	L658	D523	Q462	V400	LEU	ARG	V213	Q151	R87	K28
A918	L851	Y790	Q724	A589	L524	Q463	Y401	THR	ARG	E214	L152	R89	P29
F919	A852	Y791	S725	P590	R525	Q463	F402	LEU	ASP	Y215	L153	M90	E30
L920	V853	M661	I726	V591	P526	L465	F403	PHE	GLU	VAL	T154	G91	T31
R921	T793	K664	Q727	N593	MET	K466	E404	LEU	PRO	LYS	E157	H92	I32
L922	L857	L794	L728	L593	VAL	E467	E471	GLU	GLY	L93	Y158	I93	N33
G923	V858	G665	H729	P594	GLN	L468	D405	TRP	VAL	GLU	R159	L95	Y34
E925	L860	L666	P730	L600	ASP	D469	D406	THR	ALA	ARG	E160	A96	R35
R926	Q861	K799	L731	L601	GLY	E471	V409	GLU	THR	ALA	L161	T97	T36
T927	D862	K800	V732	L603	ARG	L472	S410	PRO	PHE	GLY	L162	P98	L37
A928	V863	G801	E734	T604	PHE	E474	T411	ASP	LEU	ARG	Y163	A99	P39
R929	V864	A802	A735	E605	ALA	E475	G412	TYR	PRO	LEU	G164	A100	E40
L930	T865	G803	F736	L606	THR	E476	D413	VAL	VAL	PRO	K165	H101	E40
L931	V866	L804	N737	L607	ALA	E476	R414	GLY	GLY	LEU	Q166	I102	R41
D932	R867	R674	S608	S608	THR	E476	R415	MET	ALA	ALA	T167	W103	D42
A933	Y868	R675	L613	L608	D539	L477	V415	THR	ALA	ALA	T168	F104	G43
L934	M869	R676	R613	R614	L540	E479	A416	PRO	PRO	TRP	Y169	V105	L44
		L677	F740	F614	N541	E480	G418	LEU	VAL	VAL	P170	K106	F45
		R681			D542	M481	D419	VAL	VAL	GLU	L171	D107	D46
Y937	R872	D682	D743	N617	L543	K482	V420	VAL	VAL	LYS	P172	V108	E47
G938	T875	E810	Q744	L618	Y544	K483	L421	HIS	VAL	GLU	P173	P109	R46
F939	S876	E811	M745	L619	R545	H484	A422	GLY	GLY	ALA	G174	S110	I49
T940	P877	K684	A746	L619	R546	P484	D422	GLY	GLY	ALA	G175	K111	F50
F941	R877	L813	V747	G620	R546	S485	D423	ILE	ILE	LYS	D176	I112	G51
S942	G878	D686	H748	K621	L547	R486	G424	VAL	VAL	PRO	A177		P52
T943	R879	E687	V749	R622	I548	R487	G425	GLY	GLY	GLY	L176	L115	I53
A944	L880	V688	P750	V623	N549	R488	K426	LYS	GLY	GLY	L176	L116	K54
S945	L881	D689	L751	D624	R550	R489	V427	LYS	LYS	GLY	L179	L116	D55
G946	F882	A690	Y751	Y625	N551	A490	K428	GLY	GLY	ILE	K180	D117	TYR
T947	A883	L691	A755		N552	K491		GLN	GLN	LEU	D181	L118	GLU
R948	R884	E692	Q756	R628	R553	A492	V431	PRO	ALA	ALA	G182	S119	CYS
T949	I885	F693	S629	L554	L554	R493	Y432	LEU	LEU	GLY	E183		ALA
G950	V886	V694	E758	V650	L558	K494	G433	ALA	ALA	LEU	E184	L123	CYS
L951	A887	L631	F632	L631	L558	R495	G434	GLU	GLU	PRO	V185	E124	GLY
D952	E888	H696	R760	V633	G561	L496	V435	ALA	ALA	ALA	V186	Q125	LYS
D953			I761			E497	E436	LYS	LYS	PRO	K187	V126	TYR



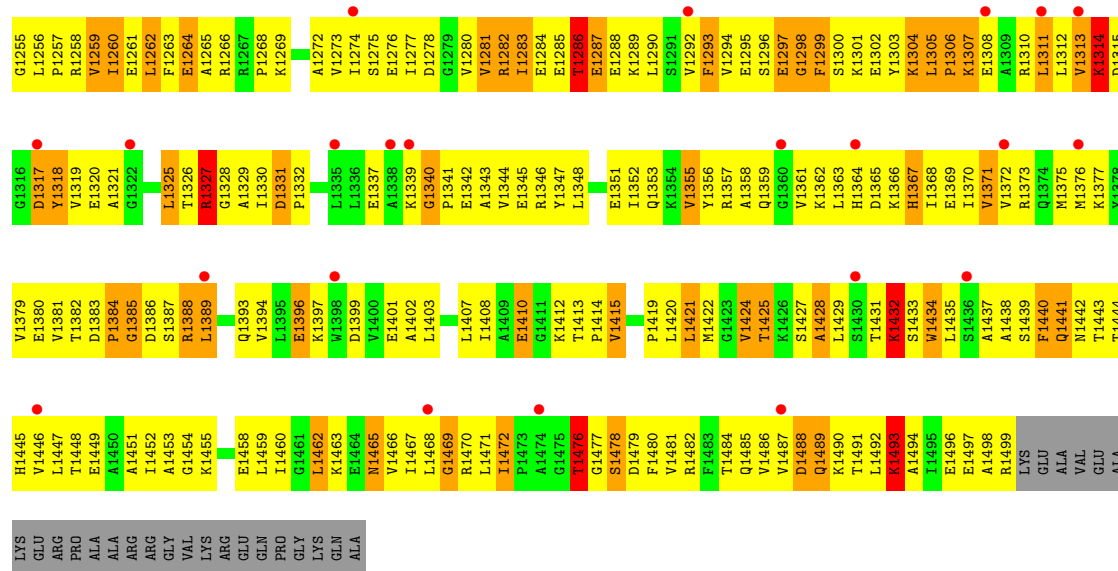




• Molecule 3: DNA-directed RNA polymerase subunit beta'



Q1195	R1130	V1067	K1002	Y937	T875	E811	T749	W688	Y625	L558	R495	R434	D365
T1196	S1131	L1068	V1003	G938	S876	A812	P750	D689	R628	G561	L496	V435	A386
R1197	L1132	E1069	V1007	F939	P877	L813	L751	A690	E497	A562	E497	V437	V368
Y1198	L1132	Y1070	V1007	T940	G878	A814	S752	L691	V499	P563	V499	D438	A369
G1199	R1136	F1071	F1011	F941	R879	A815	S753	E692	I631	E564	R500	L439	A370
C1201	R1137	I1072	F1011	S942	L881	A816	F754	E693	V632	I565	A501	V440	I371
A1138	R1137	T943	F1011	T943	F882	E817	A755	V694	V633	I566	F502	R441	D372
K1203	A1139	S1074	M1014	T944	F882	R818	Q756	I695	G634	I567	R502	R442	P373
K1203	A1139	S1074	M1014	T944	F882	R818	Q756	I695	G634	I567	R502	R442	P373
C1204	A1140	H1075	Y1015	S945	A883	G819	A757	H696	P335	I567	R502	R442	E374
Y1205	E1141	R1078	P1016	G946	R884	E820	E758	G697	Q636	N569	R505	V444	E375
G1206	R1078	R1078	F1017	Y947	I885	V821	A759	K698	L637	K570	G506	R445	E376
Y1207	G1143	G1081	M1018	T948	V886	A822	A760	V699	L637	K570	G506	R445	E376
D1208	G1143	G1081	M1018	T948	V886	A822	A760	V699	L637	K570	G506	R445	E376
L1209	L1144	A1082	L1020	G950	E888	N824	Q762	L701	L639	R572	R508	V447	I378
S1210	G1145	D1083	Y1021	I951	A889	A825	L763	L702	H640	M573	P509	E448	A379
M1211	G1146	T1084	Y1022	D952	V890	P826	L764	N703	Q641	L574	R510	E449	E380
A1212	R1147	A1085	M1023	D953	D892	R828	S765	R704	C642	Q575	W511	V450	A381
R1213	V1148	L1086	A1024	A954	E891	K828	A766	A705	G643	Q575	W511	V450	A381
R1213	L1149	R1087	Q1025	V955	E893	V829	H767	P706	I644	A577	I513	I452	E382
A1150	A1150	T1088	S1026	I956	K894	A830	I768	T707	P645	V578	I513	I452	G383
V1215	R1151	T1089	G1027	P957	V995	G831	L769	L708	K646	D579	E515	A454	V385
S1216	E1152	D1090	A1028	E958	A896	R832	L770	R709	A580	A580	A516	A454	V385
I1217	E1152	S1091	R1029	E959	W897	E833	S771	R710	M647	L581	A516	A454	H386
G1218	V1155	G1092	G1030	E998	E898	T834	P772	L711	A649	L582	P513	C457	L387
E1219	L1156	Y1093	M1031	Y963	L899	S835	A773	G712	L650	D583	V519	A458	H388
A1220	L1156	L1094	P1032	L964	I900	V836	S774	I713	E851	N584	L520	A458	E389
V1221	L1160	T1095	Q1033	D968	Q901	G837	Q714	I714	E851	N584	L520	A458	P390
G1222	E1161	R1096	Q1034	P968	L902	R838	L778	Q715	F652	G595	P521	I461	A391
I1223	E1162	K1097	I1035	R969	D903	L839	A779	F716	K654	R586	P522	I461	S392
V1224	G1163	L1098	R1036	K970	D903	K840	R780	Q717	P655	L524	D523	Q462	I393
A1225	R1164	V1099	Q1037	L971	Q906	Y941	S782	P718	F656	V591	R525	L464	L394
A1226	R1165	D1100	L1038	L972	E907	V942	S782	P718	L657	T592	P526	L464	V395
Q1227	L1166	V1101	C1039	Q773	K908	F943	K763	L720	L658	N593	MET	L466	V396
S1228	S1167	T1102	G1040	E975	N909	A844	D784	L720	K659	P594	VAL	E467	K397
G1230	E1168	H1103	L1041	E975	S910	N845	I785	E722	K660	P594	GLN	E467	A398
E1231	L1170	I1105	R1042	Q976	L911	P846	I786	G723	L601	R601	ASP	D469	V400
D1231	D1170	E1105	G1043	A977	K912	D947	L787	Q724	L601	R601	ASP	D469	V400
P1232	V1171	V1106	L1044	Y978	D913	E948	G788	S725	K664	R601	GLY	L470	Y401
G1233	R1172	V1107	M1045	E979	L914	A849	L789	I726	G665	S602	GLY	E471	P402
T1234	L1173	R1108	Q1046	N980	V915	L850	Y790	Q727	I666	L603	ARG	L472	D406
Q1235	E1174	E1109	K1047	Q981	L851	L851	Y791	L728	A667	D605	PHE	E474	V407
L1236	L1175	A1110	P1048	F982	A852	A852	I792	H729	P668	I606	ALA	E476	E408
T1237	K1176	D1111	S1049	L983	F919	V853	T793	P730	N669	L607	THR	E476	V409
MET	A1177	C1112	G1050	T984	L920	V853	Q794	L731	V670	S608	SS38	L477	S410
ARG	A1178	G1113	E1051	E987	R921	I857	V795	V732	K671	G609	D539	L478	T411
THR	E1179	T1114	T1052	R987	L922	V858	R796	C733	A672	K610	L540	L478	T411
HIS	Y1117	Y1117	F1053	R988	G923	D859	E734	E734	K611	Q611	L540	E479	G412
GLY	I1118	I1118	E1054	Y989	M924	L860	A736	A736	R675	G612	L543	E480	D413
THR	S1119	S1119	V1055	D990	E925	Q861	F798	F736	M676	R613	Y544	M481	R414
GLY	V1120	V1120	V1056	Q991	K926	D862	K800	N737	L677	F614	R545	K482	V415
VAL	P1121	P1121	V1057	I992	T927	V863	G801	A738	E678	R615	R545	H483	A416
ALA	R1058	R1058	R1058	L993	A928	V864	A802	A738	E678	R615	R545	H483	A416
ALA	P1187	P1187	S1059	Q994	R929	T865	A802	A738	E678	R615	R545	H483	A416
GLY	F1123	F1123	S1060	L995	L930	V866	L804	F740	Q680	N617	Y548	R486	V420
ALA	V1188	V1188	P1061	A996	L931	R967	R805	D743	R681	L618	N549	A487	L421
ALA	S1190	S1190	R1062	T997	D932	Y868	F806	Q744	I683	G620	R550	R488	A422
D1251	P1191	D1126	E1063	E968	A933	M869	A807	M745	K684	K621	N551	R489	V427
T1252	L1192	E1127	G1064	E968	A933	M869	A807	M745	K684	K621	N551	R489	V427
T1128	T1193	T1193	L1065	T999	L934	P809	T808	A746	K685	R622	L554	A492	Y432
Q1254	C1194	T1129	T1066	E1001	Y936	R872	E810	H748	E686	V623	L557	K494	G433



• Molecule 4: DNA-directed RNA polymerase subunit omega

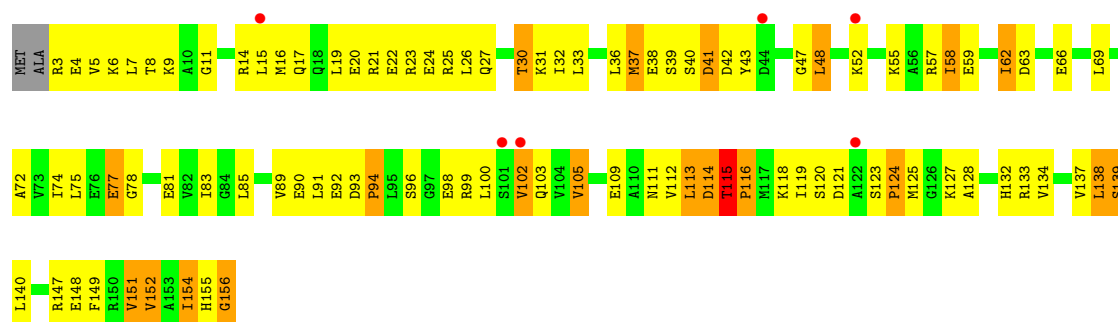


• Molecule 4: DNA-directed RNA polymerase subunit omega

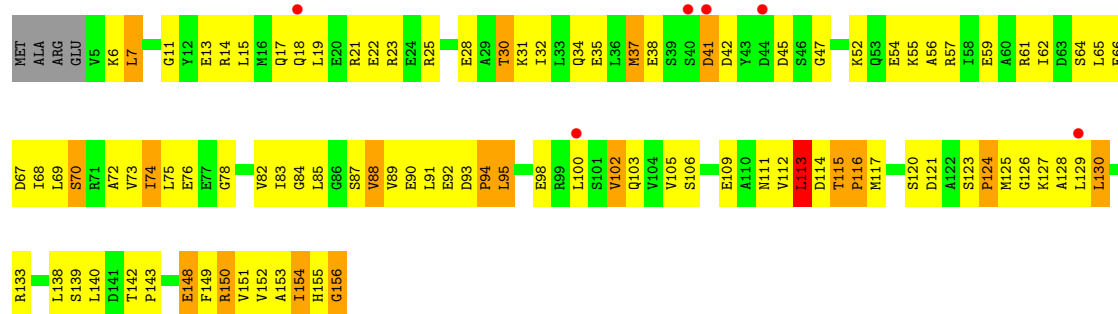


• Molecule 4: DNA-directed RNA polymerase subunit omega

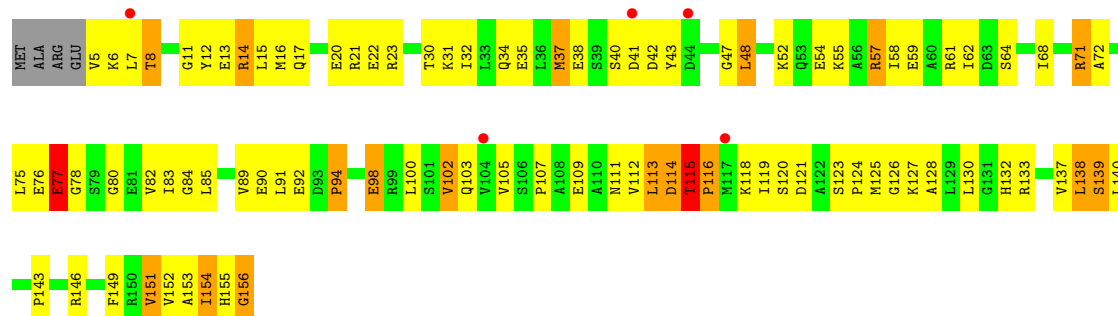




● Molecule 7: Anti-cleavage anti-GreA transcription factor Gfh1



● Molecule 7: Anti-cleavage anti-GreA transcription factor Gfh1



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	189.23Å 264.51Å 193.93Å 90.00° 116.68° 90.00°	Depositor
Resolution (Å)	47.57 – 4.30 47.57 – 4.30	Depositor EDS
% Data completeness (in resolution range)	97.6 (47.57-4.30) 97.6 (47.57-4.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.68 (at 4.29Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.317 , 0.338 0.320 , 0.340	Depositor DCC
R_{free} test set	3392 reflections (3.01%)	wwPDB-VP
Wilson B-factor (Å ²)	128.7	Xtriage
Anisotropy	0.299	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 136.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.24$	Xtriage
Estimated twinning fraction	0.054 for l,-k,h	Xtriage
F_o, F_c correlation	0.82	EDS
Total number of atoms	73646	wwPDB-VP
Average B, all atoms (Å ²)	160.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.76% 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: MG, ZN

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	0.63	0/1791	1.16	18/2436 (0.7%)
1	B	0.58	0/1791	1.12	17/2436 (0.7%)
1	F	0.63	0/1791	1.14	17/2436 (0.7%)
1	G	0.60	0/1796	1.11	14/2443 (0.6%)
1	K	0.66	0/1801	1.16	19/2450 (0.8%)
1	L	0.59	0/1791	1.09	13/2436 (0.5%)
2	C	0.63	1/8713 (0.0%)	1.16	59/11785 (0.5%)
2	H	0.66	5/8686 (0.1%)	1.18	78/11750 (0.7%)
2	M	0.66	1/8717 (0.0%)	1.22	82/11792 (0.7%)
3	D	0.65	5/10559 (0.0%)	1.21	118/14272 (0.8%)
3	I	0.65	4/10131 (0.0%)	1.21	119/13685 (0.9%)
3	N	0.64	2/10653 (0.0%)	1.21	116/14403 (0.8%)
4	E	0.56	0/768	1.06	5/1035 (0.5%)
4	J	0.58	0/768	1.10	7/1035 (0.7%)
4	O	0.63	0/768	1.12	7/1035 (0.7%)
5	P	0.54	0/151	1.68	6/230 (2.6%)
5	R	0.52	0/133	1.32	5/203 (2.5%)
5	T	0.47	0/109	1.11	2/166 (1.2%)
6	Q	0.70	0/170	0.95	2/265 (0.8%)
6	S	0.85	0/192	0.86	0/299
6	U	0.72	0/170	0.94	2/265 (0.8%)
7	X	0.67	1/1198 (0.1%)	0.99	3/1608 (0.2%)
7	Y	0.70	1/1178 (0.1%)	0.98	2/1582 (0.1%)
7	Z	0.72	1/1178 (0.1%)	0.98	5/1582 (0.3%)
All	All	0.64	21/75003 (0.0%)	1.18	716/101629 (0.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	C	0	5
2	H	0	1
2	M	0	3
3	D	0	2
3	I	0	4
3	N	0	5
6	Q	0	1
6	S	0	1
All	All	0	22

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	Z	156	GLY	C-OXT	15.36	1.54	1.23
7	Y	156	GLY	C-OXT	15.28	1.54	1.23
7	X	156	GLY	C-OXT	10.41	1.44	1.23
3	I	604	THR	C-N	-8.26	1.23	1.34
3	N	447	VAL	CA-CB	-8.25	1.45	1.54
3	D	799	LYS	CA-C	-6.81	1.44	1.52
2	H	89	THR	CA-CB	6.32	1.61	1.53
3	D	49	ILE	C-N	5.77	1.41	1.33
3	I	410	SER	CA-C	5.49	1.59	1.52
2	H	547	ILE	CA-CB	5.46	1.59	1.53
3	D	8	VAL	CA-CB	-5.45	1.47	1.54
2	M	547	ILE	CA-CB	5.42	1.59	1.53
3	D	371	ILE	CA-CB	5.39	1.60	1.54
3	N	8	VAL	CA-CB	-5.33	1.47	1.54
3	I	175	VAL	CA-CB	5.30	1.61	1.54
2	H	603	VAL	CA-CB	-5.25	1.47	1.54
2	C	547	ILE	CA-CB	5.21	1.59	1.53
3	D	606	ILE	CA-CB	5.19	1.60	1.54
2	H	560	MET	SD-CE	5.10	1.92	1.79
2	H	705	ILE	CA-CB	-5.07	1.47	1.54
3	I	100	ALA	CA-CB	-5.02	1.45	1.53

All (716) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	28	LYS	CA-C-N	16.16	140.03	119.84
3	D	28	LYS	C-N-CA	16.16	140.03	119.84
3	I	1209	LEU	N-CA-C	-14.35	89.28	109.95
3	N	1209	LEU	N-CA-C	-14.21	89.49	109.95
2	H	246	ASP	N-CA-C	13.35	120.14	108.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	P	20	DG	N9-C1'-C2'	12.04	131.56	113.50
2	M	80	GLN	N-CA-C	11.68	123.56	111.07
1	K	183	ASP	N-CA-C	11.26	123.30	111.14
3	D	1210	SER	N-CA-C	-11.04	99.24	111.28
3	I	1109	GLU	N-CA-C	10.89	122.33	107.73
2	C	12	VAL	N-CA-C	10.75	120.74	110.42
3	N	811	GLU	N-CA-C	-10.53	100.46	113.20
3	D	811	GLU	N-CA-C	-10.52	100.47	113.20
3	I	508	ARG	CA-C-N	10.51	130.28	119.56
3	I	508	ARG	C-N-CA	10.51	130.28	119.56
2	H	12	VAL	N-CA-C	10.42	121.06	110.23
3	I	811	GLU	N-CA-C	-10.39	100.63	113.20
3	I	391	ALA	N-CA-C	-10.34	98.93	112.68
3	D	1109	GLU	N-CA-C	10.33	121.58	107.73
1	F	183	ASP	N-CA-C	10.31	122.10	111.07
1	A	183	ASP	N-CA-C	10.30	122.10	111.07
2	M	12	VAL	N-CA-C	10.26	121.08	110.62
3	N	508	ARG	CA-C-N	10.23	129.99	119.56
3	N	508	ARG	C-N-CA	10.23	129.99	119.56
3	D	508	ARG	CA-C-N	10.22	129.98	119.56
3	D	508	ARG	C-N-CA	10.22	129.98	119.56
2	H	163	ILE	N-CA-C	10.21	118.53	107.60
3	D	806	PHE	N-CA-C	-9.96	100.78	113.72
4	J	49	GLN	N-CA-C	9.81	126.77	112.94
3	N	1109	GLU	N-CA-C	9.75	120.80	107.73
2	M	398	THR	N-CA-C	-9.74	100.67	111.28
3	D	681	ARG	N-CA-C	9.53	121.67	111.28
2	M	106	GLY	N-CA-C	9.41	124.03	112.73
3	I	1285	GLU	N-CA-C	9.15	123.82	110.28
3	N	1285	GLU	N-CA-C	9.10	123.75	110.28
2	M	88	LEU	N-CA-C	9.04	122.88	109.59
3	D	1285	GLU	N-CA-C	8.99	123.18	110.50
7	Z	115	THR	CA-C-N	-8.96	110.31	119.99
7	Z	115	THR	C-N-CA	-8.96	110.31	119.99
3	N	806	PHE	N-CA-C	-8.95	102.08	113.72
1	B	226	SER	N-CA-C	8.93	120.94	111.03
1	L	226	SER	N-CA-C	8.92	120.93	111.03
1	G	226	SER	N-CA-C	8.82	120.82	111.03
7	X	115	THR	CA-C-N	-8.80	110.48	119.99
7	X	115	THR	C-N-CA	-8.80	110.48	119.99
3	N	341	GLU	CA-C-N	8.80	129.47	120.14
3	N	341	GLU	C-N-CA	8.80	129.47	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1383	ASP	CA-C-N	8.76	128.71	120.03
3	D	1383	ASP	C-N-CA	8.76	128.71	120.03
3	I	1383	ASP	CA-C-N	8.72	128.66	120.03
3	I	1383	ASP	C-N-CA	8.72	128.66	120.03
3	N	1383	ASP	CA-C-N	8.67	128.61	120.03
3	N	1383	ASP	C-N-CA	8.67	128.61	120.03
2	C	163	ILE	N-CA-C	8.54	117.47	107.73
2	M	329	GLY	N-CA-C	-8.51	104.76	115.31
3	D	143	ASN	N-CA-C	-8.46	102.05	111.28
3	I	806	PHE	N-CA-C	-8.43	102.77	113.72
1	B	105	GLY	CA-C-N	8.35	130.28	119.84
1	B	105	GLY	C-N-CA	8.35	130.28	119.84
1	G	105	GLY	CA-C-N	8.35	130.28	119.84
1	G	105	GLY	C-N-CA	8.35	130.28	119.84
1	L	105	GLY	CA-C-N	8.32	130.24	119.84
1	L	105	GLY	C-N-CA	8.32	130.24	119.84
2	H	1004	LYS	N-CA-C	8.29	123.56	111.87
2	H	259	GLY	N-CA-C	8.22	117.69	110.21
3	N	37	LEU	N-CA-C	-8.21	102.37	112.38
5	P	19	DC	C2'-C3'-O3'	-8.19	99.21	111.50
3	D	37	LEU	N-CA-C	-8.16	102.43	112.38
3	I	620	GLY	N-CA-C	8.13	119.67	111.95
2	C	1005	MET	N-CA-C	8.10	120.96	107.20
2	M	373	VAL	N-CA-C	8.04	119.36	108.11
4	E	49	GLN	N-CA-C	7.97	125.56	113.61
2	C	187	ASN	N-CA-C	7.95	122.21	111.24
2	C	1000	MET	N-CA-C	-7.95	98.11	110.42
3	I	592	THR	N-CA-C	-7.92	99.33	110.50
2	M	1004	LYS	N-CA-C	7.90	123.00	111.87
2	C	1044	GLY	N-CA-C	-7.86	103.69	115.32
3	N	143	ASN	N-CA-C	-7.86	94.06	110.80
3	D	705	ALA	CA-C-N	-7.84	108.93	120.46
3	D	705	ALA	C-N-CA	-7.84	108.93	120.46
2	M	246	ASP	N-CA-C	7.83	115.27	108.22
4	O	49	GLN	N-CA-C	7.82	125.35	113.61
3	I	705	ALA	CA-C-N	-7.81	108.97	120.46
3	I	705	ALA	C-N-CA	-7.81	108.97	120.46
1	G	115	LEU	CA-C-N	7.78	129.56	119.84
1	G	115	LEU	C-N-CA	7.78	129.56	119.84
3	N	705	ALA	CA-C-N	-7.78	109.03	120.46
3	N	705	ALA	C-N-CA	-7.78	109.03	120.46
3	D	166	GLN	N-CA-C	-7.72	96.69	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	221	LEU	N-CA-C	7.71	123.17	112.45
2	H	1044	GLY	N-CA-C	-7.71	103.91	115.32
2	M	163	ILE	N-CA-C	7.71	115.85	107.60
1	A	29	GLU	N-CA-C	7.68	121.43	108.23
2	M	165	LEU	N-CA-C	-7.67	101.30	110.13
1	A	59	GLU	N-CA-C	7.67	119.28	111.07
1	F	59	GLU	N-CA-C	7.67	119.28	111.07
3	N	1110	ALA	N-CA-C	-7.66	95.29	107.93
1	K	59	GLU	N-CA-C	7.65	119.25	111.07
2	M	1001	VAL	N-CA-C	-7.64	104.01	112.80
2	C	1004	LYS	N-CA-C	7.60	122.29	112.41
2	C	225	SER	N-CA-C	-7.59	103.56	114.12
2	M	222	MET	N-CA-C	-7.57	102.92	113.37
3	N	41	ARG	N-CA-C	7.57	120.65	110.35
3	D	41	ARG	N-CA-C	7.56	120.63	110.35
3	I	89	ARG	N-CA-C	7.55	120.50	110.53
1	A	75	VAL	CB-CA-C	-7.54	102.23	111.88
3	I	46	ASP	O-C-N	-7.54	113.60	122.87
1	A	184	THR	N-CA-C	7.54	120.67	108.76
7	Y	113	LEU	N-CA-C	7.53	119.48	111.28
1	F	184	THR	N-CA-C	7.53	120.65	108.76
3	D	509	PRO	N-CA-C	7.51	123.61	113.84
2	M	1044	GLY	N-CA-C	-7.50	104.21	115.32
3	N	509	PRO	N-CA-C	7.50	123.58	113.84
2	M	103	LYS	N-CA-C	-7.48	103.13	111.28
2	M	481	ASP	N-CA-C	-7.46	103.30	113.30
1	K	29	GLU	N-CA-C	7.46	121.06	108.23
3	D	1206	GLY	N-CA-C	7.44	121.54	110.97
2	M	107	LEU	N-CA-C	7.43	121.04	109.07
1	F	29	GLU	N-CA-C	7.43	121.01	108.23
3	D	623	VAL	N-CA-C	7.43	119.78	108.71
3	I	509	PRO	N-CA-C	7.42	123.49	113.84
2	H	481	ASP	N-CA-C	-7.38	103.41	113.30
3	I	1126	ASP	N-CA-C	7.38	121.47	109.59
2	M	1000	MET	N-CA-C	-7.37	99.00	110.42
3	D	1110	ALA	N-CA-C	-7.35	95.81	107.93
2	M	259	GLY	N-CA-C	7.34	116.89	110.21
2	M	38	LYS	N-CA-C	-7.34	103.89	112.92
3	N	166	GLN	N-CA-C	-7.33	96.78	108.73
2	H	318	PRO	N-CA-C	-7.33	102.59	112.48
3	N	805	GLU	N-CA-C	7.29	121.25	108.56
1	G	91	ASN	N-CA-C	7.29	114.78	108.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	728	HIS	N-CA-C	7.28	121.75	113.02
1	L	91	ASN	N-CA-C	7.27	114.76	108.22
3	I	51	GLY	CA-C-N	7.27	128.93	119.84
3	I	51	GLY	C-N-CA	7.27	128.93	119.84
3	D	1126	ASP	N-CA-C	7.26	121.67	109.76
3	N	88	TYR	N-CA-C	7.26	119.19	111.28
3	N	515	GLU	N-CA-C	-7.26	105.34	114.56
5	R	20	DG	C2'-C3'-O3'	-7.26	100.61	111.50
1	B	91	ASN	N-CA-C	7.25	114.75	108.22
2	H	1005	MET	N-CA-C	7.25	119.53	107.20
3	I	515	GLU	N-CA-C	-7.25	105.36	114.56
2	C	265	ARG	N-CA-C	7.23	120.93	109.50
2	H	1000	MET	N-CA-C	-7.23	99.22	110.42
1	L	227	ASN	N-CA-C	7.22	121.69	108.69
1	G	227	ASN	N-CA-C	7.21	121.67	108.69
3	N	1090	ASP	N-CA-C	-7.21	104.22	112.87
4	O	53	GLY	N-CA-C	7.21	124.25	115.31
1	B	227	ASN	N-CA-C	7.19	121.62	108.69
3	N	634	GLY	CA-C-N	7.17	128.81	119.84
3	N	634	GLY	C-N-CA	7.17	128.81	119.84
5	P	20	DG	C2'-C3'-O3'	-7.17	100.74	111.50
4	J	53	GLY	N-CA-C	7.17	124.19	115.31
2	C	373	VAL	N-CA-C	7.14	118.10	108.11
2	H	373	VAL	N-CA-C	7.12	119.07	108.46
2	H	547	ILE	CA-C-N	7.11	128.73	119.84
2	H	547	ILE	C-N-CA	7.11	128.73	119.84
3	D	481	MET	N-CA-C	7.11	118.72	110.97
2	M	547	ILE	CA-C-N	7.09	128.71	119.84
2	M	547	ILE	C-N-CA	7.09	128.71	119.84
2	H	938	LYS	N-CA-C	-7.09	103.59	111.82
3	D	515	GLU	N-CA-C	-7.09	105.56	114.56
2	H	835	VAL	N-CA-C	7.09	118.70	110.62
3	N	676	MET	N-CA-C	7.08	118.65	111.07
3	N	354	VAL	N-CA-C	-7.08	106.60	113.53
3	I	166	GLN	N-CA-C	-7.07	98.08	109.96
3	N	118	LEU	N-CA-C	-7.07	99.74	110.14
2	C	547	ILE	CA-C-N	7.07	128.68	119.84
2	C	547	ILE	C-N-CA	7.07	128.68	119.84
3	D	634	GLY	CA-C-N	7.06	128.67	119.84
3	D	634	GLY	C-N-CA	7.06	128.67	119.84
3	I	118	LEU	N-CA-C	-7.06	99.78	109.95
3	I	634	GLY	CA-C-N	7.06	128.66	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	634	GLY	C-N-CA	7.06	128.66	119.84
2	C	938	LYS	N-CA-C	-7.04	103.65	111.82
1	G	171	PHE	N-CA-C	7.04	118.75	111.14
3	I	143	ASN	N-CA-C	-7.04	103.61	111.28
2	M	938	LYS	N-CA-C	-7.02	103.68	111.82
3	I	824	ASN	N-CA-C	7.01	120.29	111.24
3	D	620	GLY	N-CA-C	7.01	120.67	111.70
3	N	1469	GLY	N-CA-C	-7.00	105.57	115.30
3	D	824	ASN	N-CA-C	7.00	120.27	111.24
3	N	824	ASN	N-CA-C	7.00	120.26	111.24
1	L	171	PHE	N-CA-C	6.99	118.69	111.14
2	C	835	VAL	N-CA-C	6.98	118.58	110.62
3	I	805	GLU	N-CA-C	6.97	120.64	108.52
3	N	1126	ASP	N-CA-C	6.96	120.79	109.59
3	D	28	LYS	O-C-N	-6.95	116.99	121.85
3	N	9	ARG	N-CA-C	6.94	120.48	108.76
5	R	21	DC	C2'-C3'-O3'	-6.94	101.10	111.50
2	M	835	VAL	N-CA-C	6.93	118.53	110.62
2	H	256	TYR	N-CA-C	-6.93	103.72	111.28
3	N	209	ARG	N-CA-C	-6.93	104.82	113.28
3	D	9	ARG	N-CA-C	6.91	120.44	108.76
3	N	1314	LYS	N-CA-C	6.89	120.28	110.14
3	N	28	LYS	CA-C-N	6.89	128.45	119.84
3	N	28	LYS	C-N-CA	6.89	128.45	119.84
1	B	171	PHE	N-CA-C	6.87	118.56	111.14
2	H	322	VAL	N-CA-C	-6.87	97.28	107.51
3	D	589	ALA	CA-C-N	6.86	127.11	119.90
3	D	589	ALA	C-N-CA	6.86	127.11	119.90
3	I	1110	ALA	N-CA-C	-6.85	96.63	107.93
3	I	28	LYS	CA-C-N	6.84	128.39	119.84
3	I	28	LYS	C-N-CA	6.84	128.39	119.84
3	D	1314	LYS	N-CA-C	6.83	120.19	110.14
3	I	410	SER	N-CA-C	6.83	117.51	107.88
3	I	1367	HIS	N-CA-C	6.83	118.38	111.07
3	D	119	SER	N-CA-C	-6.83	100.21	110.24
3	D	141	ILE	N-CA-C	6.82	119.90	109.12
3	D	1317	ASP	N-CA-C	6.82	120.61	110.52
2	C	103	LYS	N-CA-C	-6.79	103.91	111.71
3	N	1317	ASP	N-CA-C	6.79	120.56	110.52
3	N	1367	HIS	N-CA-C	6.78	118.33	111.07
3	N	211	VAL	CB-CA-C	-6.78	100.18	111.29
2	C	256	TYR	N-CA-C	-6.77	103.97	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	1314	LYS	N-CA-C	6.77	120.09	110.14
3	D	1469	GLY	N-CA-C	-6.75	105.91	115.30
3	I	97	THR	CA-C-N	6.75	128.28	119.84
3	I	97	THR	C-N-CA	6.75	128.28	119.84
2	C	456	ALA	N-CA-C	6.75	118.71	110.41
3	D	1090	ASP	N-CA-C	-6.75	104.77	112.87
2	H	728	HIS	N-CA-C	6.75	121.18	113.15
5	P	18	DC	C2'-C3'-O3'	-6.74	101.40	111.50
3	I	1317	ASP	N-CA-C	6.72	120.47	110.52
4	O	51	LEU	N-CA-C	-6.72	99.98	108.45
2	M	1105	LYS	N-CA-C	-6.72	99.08	109.76
2	C	1105	LYS	N-CA-C	-6.71	99.08	109.76
2	H	165	LEU	N-CA-C	-6.71	102.41	110.13
2	H	456	ALA	N-CA-C	6.71	118.66	110.41
2	H	1105	LYS	N-CA-C	-6.70	99.11	109.76
2	H	187	ASN	N-CA-C	6.69	120.81	112.24
2	M	795	GLY	N-CA-C	-6.69	97.32	113.18
3	D	1367	HIS	N-CA-C	6.69	118.23	111.07
3	D	97	THR	CA-C-N	6.68	128.19	119.84
3	D	97	THR	C-N-CA	6.68	128.19	119.84
2	M	1005	MET	N-CA-C	6.68	118.55	107.20
3	D	686	GLU	N-CA-C	6.67	118.35	111.14
4	O	50	THR	N-CA-C	-6.67	103.83	112.23
7	Z	116	PRO	N-CA-C	-6.67	99.92	111.32
3	I	980	MET	N-CA-C	-6.66	105.68	113.88
6	U	16	G	C4'-C3'-O3'	6.66	122.99	113.00
7	X	116	PRO	N-CA-C	-6.66	99.94	111.32
3	D	133	ILE	N-CA-C	6.65	119.41	109.17
3	D	1042	ARG	N-CA-C	-6.65	98.39	108.96
3	N	1042	ARG	N-CA-C	-6.65	98.39	108.96
1	K	184	THR	N-CA-C	6.64	119.53	109.23
5	T	20	DG	C2'-C3'-O3'	-6.64	101.54	111.50
3	N	980	MET	N-CA-C	-6.64	105.71	113.88
3	D	805	GLU	N-CA-C	6.64	120.11	108.56
3	I	1472	ILE	CA-C-N	6.64	126.33	119.56
3	I	1472	ILE	C-N-CA	6.64	126.33	119.56
2	H	222	MET	N-CA-C	-6.63	104.21	113.37
1	K	105	GLY	CA-C-N	6.62	128.12	119.84
1	K	105	GLY	C-N-CA	6.62	128.12	119.84
2	M	456	ALA	N-CA-C	6.62	118.56	110.41
3	I	1042	ARG	N-CA-C	-6.62	98.43	108.96
4	E	51	LEU	N-CA-C	-6.61	100.12	108.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	105	GLY	CA-C-N	6.60	128.09	119.84
1	F	105	GLY	C-N-CA	6.60	128.09	119.84
4	J	50	THR	N-CA-C	-6.59	103.92	112.23
3	N	97	THR	CA-C-N	6.57	128.06	119.84
3	N	97	THR	C-N-CA	6.57	128.06	119.84
2	M	442	GLU	N-CA-C	6.56	120.39	112.38
3	D	980	MET	N-CA-C	-6.55	105.83	113.88
3	D	456	MET	N-CA-C	6.54	119.83	109.50
1	A	105	GLY	CA-C-N	6.51	127.98	119.84
1	A	105	GLY	C-N-CA	6.51	127.98	119.84
5	R	22	DA	C4'-C3'-O3'	6.50	119.75	110.00
1	B	165	ILE	CA-C-N	6.50	126.47	119.78
1	B	165	ILE	C-N-CA	6.50	126.47	119.78
3	D	433	GLY	N-CA-C	6.50	120.31	110.18
3	I	1107	VAL	N-CA-C	6.49	116.07	106.85
1	F	47	SER	N-CA-C	6.48	121.46	112.45
1	A	47	SER	N-CA-C	6.45	121.42	112.45
1	F	176	ARG	N-CA-C	6.45	119.78	108.75
3	N	196	VAL	N-CA-C	6.45	118.08	106.61
2	C	259	GLY	N-CA-C	6.44	116.07	110.21
1	A	176	ARG	N-CA-C	6.43	119.75	108.75
3	N	779	ALA	N-CA-C	-6.42	105.40	112.72
2	H	398	THR	N-CA-C	-6.42	103.41	111.11
3	I	456	MET	N-CA-C	6.42	119.64	109.50
2	C	442	GLU	N-CA-C	6.42	120.21	112.38
3	N	623	VAL	N-CA-C	6.42	117.83	108.53
2	C	261	ILE	N-CA-C	6.41	122.68	109.34
1	K	176	ARG	N-CA-C	6.41	119.71	108.75
3	I	779	ALA	N-CA-C	-6.40	105.43	112.72
3	I	1331	ASP	CA-C-N	6.39	127.83	119.84
3	I	1331	ASP	C-N-CA	6.39	127.83	119.84
2	M	393	GLN	N-CA-C	6.39	118.26	109.18
1	K	47	SER	N-CA-C	6.37	121.31	112.45
3	D	779	ALA	N-CA-C	-6.37	105.38	112.57
2	M	729	LEU	N-CA-C	6.36	124.35	110.80
1	B	91	ASN	CA-C-N	6.36	127.79	119.84
1	B	91	ASN	C-N-CA	6.36	127.79	119.84
3	D	1388	ARG	N-CA-C	6.33	118.89	110.53
2	C	464	LEU	N-CA-C	6.32	118.51	110.61
3	I	481	MET	N-CA-C	6.32	118.73	111.02
3	I	1208	ASP	N-CA-C	6.32	124.25	110.80
3	N	1331	ASP	CA-C-N	6.31	127.73	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	1331	ASP	C-N-CA	6.31	127.73	119.84
1	G	91	ASN	CA-C-N	6.31	127.73	119.84
1	G	91	ASN	C-N-CA	6.31	127.73	119.84
3	N	355	VAL	CA-C-N	6.31	127.73	119.84
3	N	355	VAL	C-N-CA	6.31	127.73	119.84
3	N	592	THR	N-CA-C	-6.30	100.71	110.10
2	C	858	MET	CA-C-N	6.30	127.72	119.84
2	C	858	MET	C-N-CA	6.30	127.72	119.84
2	M	858	MET	CA-C-N	6.30	127.71	119.84
2	M	858	MET	C-N-CA	6.30	127.71	119.84
2	C	731	GLU	N-CA-C	-6.29	106.19	114.31
3	N	481	MET	N-CA-C	6.29	118.69	111.02
3	I	609	GLY	N-CA-C	6.28	122.11	112.81
3	N	1208	ASP	N-CA-C	6.27	124.15	110.80
7	Z	77	GLU	N-CA-C	6.26	117.37	108.54
3	N	1293	PHE	N-CA-C	6.26	118.97	108.02
3	N	681	ARG	N-CA-C	-6.24	104.48	111.28
1	L	91	ASN	CA-C-N	6.24	127.63	119.84
1	L	91	ASN	C-N-CA	6.24	127.63	119.84
2	H	442	GLU	N-CA-C	6.23	120.35	112.87
3	I	1090	ASP	N-CA-C	-6.23	105.39	112.87
2	C	330	ASN	N-CA-C	-6.23	102.96	111.56
2	C	795	GLY	N-CA-C	-6.23	98.41	113.18
5	R	19	DC	C2'-C3'-O3'	-6.23	102.15	111.50
3	I	1469	GLY	N-CA-C	-6.23	106.65	115.30
3	D	1331	ASP	CA-C-N	6.22	127.61	119.84
3	D	1331	ASP	C-N-CA	6.22	127.61	119.84
2	M	256	TYR	N-CA-C	-6.22	104.50	111.28
3	I	1340	GLY	CA-C-N	6.21	127.61	119.84
3	I	1340	GLY	C-N-CA	6.21	127.61	119.84
2	H	858	MET	CA-C-N	6.20	127.58	119.84
2	H	858	MET	C-N-CA	6.20	127.58	119.84
2	M	361	MET	N-CA-C	6.19	120.67	113.18
2	H	795	GLY	N-CA-C	-6.18	98.53	113.18
2	H	261	ILE	N-CA-C	6.17	122.17	109.34
2	H	34	VAL	CA-C-N	6.17	126.73	120.38
2	H	34	VAL	C-N-CA	6.17	126.73	120.38
2	M	224	GLU	N-CA-C	6.16	118.02	109.15
2	H	188	LYS	N-CA-C	6.15	123.91	110.80
2	C	726	ILE	CA-C-N	6.15	127.53	119.84
2	C	726	ILE	C-N-CA	6.15	127.53	119.84
2	H	1025	ALA	N-CA-C	6.13	118.93	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	393	GLN	N-CA-C	6.11	117.86	109.18
3	D	1340	GLY	CA-C-N	6.11	127.47	119.84
3	D	1340	GLY	C-N-CA	6.11	127.47	119.84
3	I	45	PHE	N-CA-C	6.10	119.67	112.72
3	N	1059	SER	N-CA-C	6.10	119.54	110.52
1	F	68	ILE	CA-C-N	6.09	126.11	119.90
1	F	68	ILE	C-N-CA	6.09	126.11	119.90
3	D	1472	ILE	CA-C-N	6.07	125.75	119.56
3	D	1472	ILE	C-N-CA	6.07	125.75	119.56
4	E	54	LEU	N-CA-C	-6.07	105.97	113.19
3	I	1059	SER	N-CA-C	6.06	119.49	110.52
3	D	1318	TYR	N-CA-C	6.05	118.11	110.24
1	A	68	ILE	CA-C-N	6.04	126.06	119.90
1	A	68	ILE	C-N-CA	6.04	126.06	119.90
3	D	1059	SER	N-CA-C	6.04	119.45	110.52
1	F	171	PHE	N-CA-C	6.03	120.63	113.28
1	K	68	ILE	CA-C-N	6.03	126.05	119.90
1	K	68	ILE	C-N-CA	6.03	126.05	119.90
2	C	933	GLY	N-CA-C	6.03	123.45	114.95
2	M	726	ILE	CA-C-N	6.02	127.37	119.84
2	M	726	ILE	C-N-CA	6.02	127.37	119.84
3	D	592	THR	N-CA-C	-6.02	101.12	110.10
1	A	171	PHE	N-CA-C	6.02	120.62	113.28
2	M	1011	GLY	CA-C-N	6.02	127.36	119.84
2	M	1011	GLY	C-N-CA	6.02	127.36	119.84
4	E	50	THR	N-CA-C	-6.01	104.65	112.23
2	H	542	VAL	N-CA-C	-6.01	104.47	110.30
1	K	171	PHE	N-CA-C	6.01	120.61	113.28
4	O	21	VAL	CB-CA-C	-6.01	104.01	111.70
3	I	147	VAL	N-CA-C	6.00	116.80	109.30
3	D	717	GLN	CA-C-N	-5.99	113.36	120.13
3	D	717	GLN	C-N-CA	-5.99	113.36	120.13
2	H	225	SER	N-CA-C	-5.99	105.15	112.88
3	N	1340	GLY	CA-C-N	5.99	127.33	119.84
3	N	1340	GLY	C-N-CA	5.99	127.33	119.84
2	C	542	VAL	N-CA-C	-5.99	104.49	110.30
3	I	589	ALA	CA-C-N	5.99	125.75	119.76
3	I	589	ALA	C-N-CA	5.99	125.75	119.76
2	M	933	GLY	N-CA-C	5.99	123.39	114.95
2	M	322	VAL	N-CA-C	-5.98	98.60	107.51
4	J	83	ASP	N-CA-C	5.97	117.87	111.36
2	M	1002	GLU	N-CA-C	-5.97	105.09	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	235	LEU	CA-C-N	5.97	130.09	120.30
2	H	235	LEU	C-N-CA	5.97	130.09	120.30
2	C	361	MET	N-CA-C	5.97	119.82	112.54
3	N	1318	TYR	N-CA-C	5.97	118.00	110.24
2	H	103	LYS	N-CA-C	-5.96	104.86	111.71
3	I	87	ARG	N-CA-C	5.94	117.88	108.79
2	M	542	VAL	N-CA-C	-5.94	104.54	110.30
3	D	840	LYS	N-CA-C	5.94	117.44	110.97
2	H	729	LEU	N-CA-C	5.94	123.44	110.80
1	B	173	PRO	N-CA-C	-5.92	106.95	114.35
2	H	447	ALA	N-CA-C	-5.92	102.30	110.35
3	N	1188	VAL	N-CA-C	5.91	116.15	108.35
3	I	1318	TYR	N-CA-C	5.90	117.91	110.24
2	M	447	ALA	N-CA-C	-5.90	102.32	110.35
2	C	1011	GLY	CA-C-N	5.90	127.22	119.84
2	C	1011	GLY	C-N-CA	5.90	127.22	119.84
2	H	362	GLY	N-CA-C	5.90	119.91	111.12
2	H	933	GLY	N-CA-C	5.90	123.27	114.95
2	C	447	ALA	N-CA-C	-5.89	102.33	110.35
3	I	840	LYS	N-CA-C	5.89	117.39	110.97
3	D	1188	VAL	N-CA-C	5.88	116.12	108.35
2	H	194	VAL	N-CA-C	5.88	116.62	110.62
3	I	876	SER	CA-C-N	5.88	125.36	119.24
3	I	876	SER	C-N-CA	5.88	125.36	119.24
1	G	228	PRO	N-CA-C	5.88	120.50	111.57
3	N	1117	TYR	N-CA-C	5.87	119.15	110.46
3	D	1389	LEU	N-CA-C	5.87	123.31	110.80
3	I	1210	SER	N-CA-C	-5.87	104.23	111.33
3	I	1116	ASN	N-CA-C	-5.86	97.77	108.02
3	D	32	ILE	N-CA-C	5.86	116.31	108.11
2	H	674	VAL	N-CA-C	5.86	116.72	108.17
3	I	85	VAL	N-CA-C	5.84	116.05	107.75
3	N	840	LYS	N-CA-C	5.84	117.34	110.97
2	C	309	TYR	N-CA-C	-5.84	106.49	113.97
3	D	819	GLY	N-CA-C	-5.84	107.10	114.16
1	L	169	ALA	N-CA-C	5.83	117.71	108.67
3	I	717	GLN	CA-C-N	-5.83	113.54	120.13
3	I	717	GLN	C-N-CA	-5.83	113.54	120.13
2	C	674	VAL	N-CA-C	5.83	116.68	108.17
2	C	393	GLN	N-CA-C	5.82	117.44	109.18
1	L	129	ILE	CB-CA-C	-5.82	104.86	111.55
1	G	173	PRO	N-CA-C	-5.82	107.08	114.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	1210	SER	N-CA-C	-5.81	104.30	111.33
2	H	303	PHE	N-CA-C	5.81	117.30	110.97
3	N	717	GLN	CA-C-N	-5.81	113.57	120.13
3	N	717	GLN	C-N-CA	-5.81	113.57	120.13
1	L	173	PRO	N-CA-C	-5.80	107.09	114.35
3	I	1493	LYS	N-CA-C	-5.80	105.30	112.38
1	B	129	ILE	CB-CA-C	-5.80	104.88	111.55
2	M	674	VAL	N-CA-C	5.80	116.64	108.17
3	N	1313	VAL	N-CA-C	-5.80	100.06	108.87
3	I	866	VAL	N-CA-C	5.79	116.63	108.17
3	I	1188	VAL	N-CA-C	5.79	116.00	108.35
5	R	18	DC	C2'-C3'-O3'	-5.79	102.81	111.50
3	N	819	GLY	N-CA-C	-5.79	107.16	114.16
1	G	169	ALA	N-CA-C	5.79	117.64	108.67
3	I	434	ARG	N-CA-C	-5.79	102.89	110.53
4	O	83	ASP	N-CA-C	5.78	117.66	111.36
3	D	866	VAL	N-CA-C	5.78	116.61	108.17
3	I	819	GLY	N-CA-C	-5.78	107.17	114.16
2	M	1058	ASP	N-CA-C	5.77	120.83	113.55
3	D	876	SER	CA-C-N	5.77	125.24	119.24
3	D	876	SER	C-N-CA	5.77	125.24	119.24
2	C	322	VAL	N-CA-C	-5.75	98.86	107.37
3	N	921	ARG	N-CA-C	5.75	118.66	111.24
2	M	309	TYR	N-CA-C	-5.74	106.62	113.97
3	I	1388	ARG	N-CA-C	5.74	118.60	110.50
2	C	478	VAL	N-CA-C	5.73	116.20	108.17
3	I	206	ARG	N-CA-C	5.73	123.01	110.80
3	N	86	ARG	N-CA-C	5.73	117.53	111.28
3	N	1384	PRO	N-CA-C	5.73	120.00	111.41
3	I	921	ARG	N-CA-C	5.72	118.62	111.24
2	M	318	PRO	N-CA-C	-5.70	106.42	113.84
3	N	89	ARG	N-CA-C	5.70	117.90	110.43
3	D	1313	VAL	N-CA-C	-5.70	100.21	108.87
3	I	1432	LYS	N-CA-C	5.69	122.92	110.80
3	N	866	VAL	N-CA-C	5.69	116.48	108.17
3	D	891	GLU	N-CA-C	5.69	119.03	111.75
3	D	1117	TYR	N-CA-C	5.69	118.88	110.46
3	D	1427	SER	N-CA-C	-5.69	105.08	111.28
3	D	921	ARG	N-CA-C	5.68	118.57	111.24
3	D	209	ARG	N-CA-C	-5.68	106.19	113.01
3	N	876	SER	CA-C-N	5.67	125.14	119.24
3	N	876	SER	C-N-CA	5.67	125.14	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	I	891	GLU	N-CA-C	5.67	119.00	111.75
3	N	1259	VAL	N-CA-C	-5.67	104.01	111.09
4	J	57	ASP	N-CA-C	5.66	122.33	109.81
3	I	1313	VAL	N-CA-C	-5.66	100.27	108.87
3	N	1432	LYS	N-CA-C	5.65	122.83	110.80
3	D	1293	PHE	N-CA-C	5.65	117.61	108.41
3	N	1107	VAL	N-CA-C	5.65	115.70	106.72
5	P	17	DG	C2'-C3'-O3'	-5.65	103.03	111.50
2	M	15	LEU	CA-C-N	5.64	126.19	120.38
2	M	15	LEU	C-N-CA	5.64	126.19	120.38
2	C	291	ALA	N-CA-C	5.64	117.61	108.41
2	H	291	ALA	N-CA-C	5.64	117.60	108.41
2	M	827	VAL	CB-CA-C	-5.63	102.24	110.62
3	D	406	ASP	N-CA-C	5.62	117.22	109.29
3	I	1384	PRO	N-CA-C	5.62	119.84	111.41
2	M	699	PHE	N-CA-C	5.62	117.48	111.36
2	M	237	ARG	N-CA-C	5.62	117.08	111.07
2	M	792	VAL	CA-C-N	5.61	126.16	120.38
2	M	792	VAL	C-N-CA	5.61	126.16	120.38
3	N	1172	HIS	N-CA-C	-5.61	104.79	111.69
3	D	621	LYS	N-CA-C	5.60	116.75	107.73
3	D	1432	LYS	N-CA-C	5.60	122.72	110.80
3	N	51	GLY	CA-C-N	5.60	126.84	119.84
3	N	51	GLY	C-N-CA	5.60	126.84	119.84
3	D	199	LEU	N-CA-C	5.59	117.90	109.23
2	H	443	THR	CA-C-N	5.59	125.79	120.31
2	H	443	THR	C-N-CA	5.59	125.79	120.31
3	I	1389	LEU	N-CA-C	5.59	122.71	110.80
2	M	453	THR	N-CA-C	5.59	117.77	108.99
2	C	453	THR	N-CA-C	5.59	117.76	108.99
3	N	891	GLU	N-CA-C	5.59	118.90	111.75
3	I	749	VAL	CA-C-N	5.58	126.82	119.84
3	I	749	VAL	C-N-CA	5.58	126.82	119.84
2	H	1058	ASP	N-CA-C	5.58	120.58	113.55
3	D	1172	HIS	N-CA-C	-5.57	104.83	111.69
3	D	1493	LYS	N-CA-C	-5.57	105.58	112.38
3	I	406	ASP	N-CA-C	5.57	117.14	109.29
2	C	319	GLY	N-CA-C	-5.56	100.00	113.18
3	D	1384	PRO	N-CA-C	5.55	119.74	111.41
3	I	1293	PHE	N-CA-C	5.55	117.73	108.02
3	D	749	VAL	CA-C-N	5.54	126.77	119.84
3	D	749	VAL	C-N-CA	5.54	126.77	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	225	SER	N-CA-C	-5.54	105.88	113.30
3	N	1113	GLY	N-CA-C	5.54	120.80	113.37
2	M	181	VAL	CB-CA-C	-5.53	102.22	111.29
3	N	1493	LYS	N-CA-C	-5.53	105.64	112.38
3	N	342	PRO	N-CA-C	5.53	120.91	111.68
2	H	453	THR	N-CA-C	5.52	117.66	108.99
3	N	955	VAL	N-CA-C	5.52	116.68	108.23
3	I	1172	HIS	N-CA-C	-5.52	104.90	111.69
6	Q	11	C	N1-C1'-C2'	5.52	120.28	112.00
3	N	147	VAL	N-CA-C	5.51	116.19	109.30
1	F	30	ARG	N-CA-C	5.51	122.54	110.80
3	I	1117	TYR	N-CA-C	5.50	118.61	110.46
2	C	362	GLY	N-CA-C	5.50	119.13	111.10
2	M	422	ARG	N-CA-C	5.50	119.74	113.19
1	B	135	GLY	N-CA-C	-5.49	100.16	113.18
3	I	818	ARG	N-CA-C	-5.49	105.71	112.90
5	P	16	DC	C2'-C3'-O3'	-5.49	103.27	111.50
1	G	135	GLY	N-CA-C	-5.48	100.18	113.18
3	I	749	VAL	CB-CA-C	-5.48	104.63	110.16
1	L	135	GLY	N-CA-C	-5.48	100.19	113.18
3	I	641	GLN	N-CA-C	5.48	118.44	110.17
3	I	1317	ASP	CA-C-N	5.48	128.87	120.82
3	I	1317	ASP	C-N-CA	5.48	128.87	120.82
4	J	51	LEU	N-CA-C	-5.48	101.18	108.74
3	N	583	ASP	N-CA-C	5.48	118.01	107.44
2	M	705	ILE	N-CA-C	5.47	115.78	108.11
2	H	1057	SER	N-CA-C	5.47	122.45	110.80
2	H	197	LEU	CA-C-N	5.47	127.87	120.44
2	H	197	LEU	C-N-CA	5.47	127.87	120.44
3	N	22	SER	N-CA-C	5.47	118.37	110.28
3	I	680	GLN	N-CA-C	5.46	118.16	111.82
3	I	22	SER	N-CA-C	5.46	118.36	110.28
6	Q	12	G	N9-C1'-C2'	5.46	120.19	112.00
1	B	169	ALA	N-CA-C	5.46	117.62	108.23
3	I	667	ALA	CA-C-N	5.46	126.66	119.84
3	I	667	ALA	C-N-CA	5.46	126.66	119.84
2	H	422	ARG	N-CA-C	5.45	119.68	113.19
3	I	608	SER	N-CA-C	5.45	118.40	110.17
3	N	708	LEU	N-CA-C	5.45	119.89	112.04
3	D	667	ALA	CA-C-N	5.45	126.65	119.84
3	D	667	ALA	C-N-CA	5.45	126.65	119.84
3	D	738	ALA	N-CA-C	5.45	117.30	108.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	22	SER	N-CA-C	5.45	118.34	110.28
2	C	422	ARG	N-CA-C	5.44	119.67	113.19
3	N	956	ILE	CB-CA-C	-5.44	105.88	110.94
3	N	749	VAL	CA-C-N	5.44	126.64	119.84
3	N	749	VAL	C-N-CA	5.44	126.64	119.84
2	C	1058	ASP	N-CA-C	5.44	120.40	113.55
3	D	1317	ASP	CA-C-N	5.44	128.81	120.82
3	D	1317	ASP	C-N-CA	5.44	128.81	120.82
3	I	9	ARG	N-CA-C	5.42	117.25	108.41
4	J	54	LEU	N-CA-C	-5.42	106.74	113.19
6	U	16	G	C2'-C3'-O3'	5.42	121.83	113.70
3	I	539	ASP	N-CA-C	5.42	122.34	110.80
3	I	583	ASP	N-CA-C	5.42	117.89	107.44
2	M	494	TYR	N-CA-C	5.42	118.35	110.17
2	H	726	ILE	CA-C-N	5.41	126.61	119.84
2	H	726	ILE	C-N-CA	5.41	126.61	119.84
3	N	738	ALA	N-CA-C	5.41	117.24	108.26
2	M	291	ALA	N-CA-C	5.40	117.22	108.41
3	N	818	ARG	N-CA-C	-5.40	105.83	112.90
3	N	1317	ASP	CA-C-N	5.40	128.76	120.82
3	N	1317	ASP	C-N-CA	5.40	128.76	120.82
3	D	818	ARG	N-CA-C	-5.40	105.83	112.90
3	D	3	LYS	N-CA-C	5.39	118.19	109.40
2	H	193	LEU	N-CA-C	5.39	117.23	111.36
3	D	641	GLN	N-CA-C	5.39	118.31	110.17
3	D	708	LEU	N-CA-C	5.39	119.80	112.04
3	I	1281	VAL	N-CA-C	5.39	117.08	108.89
1	K	160	ASP	N-CA-C	-5.38	105.06	111.03
3	N	1476	THR	N-CA-C	-5.38	105.45	112.23
3	I	738	ALA	N-CA-C	5.38	117.19	108.26
3	I	1462	LEU	N-CA-C	5.38	116.82	111.07
3	N	406	ASP	N-CA-C	5.38	116.87	109.29
3	D	869	MET	N-CA-C	5.36	117.55	111.11
3	D	1209	LEU	N-CA-C	-5.36	100.78	108.60
2	M	265	ARG	N-CA-C	5.36	118.67	110.20
3	I	869	MET	N-CA-C	5.35	117.53	111.11
2	M	235	LEU	N-CA-C	-5.35	105.49	112.23
3	I	34	TYR	N-CA-C	5.34	117.18	111.36
2	C	742	VAL	CB-CA-C	-5.34	105.72	111.59
2	C	1057	SER	N-CA-C	5.34	122.17	110.80
3	I	435	VAL	N-CA-C	5.33	116.16	108.48
1	A	160	ASP	N-CA-C	-5.33	105.11	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	346	VAL	N-CA-C	-5.33	105.52	110.53
3	N	869	MET	N-CA-C	5.33	117.50	111.11
2	H	1080	SER	N-CA-C	-5.32	102.87	110.59
2	M	1057	SER	N-CA-C	5.32	122.14	110.80
3	I	708	LEU	N-CA-C	5.32	119.70	112.04
3	D	810	GLU	N-CA-C	-5.31	105.94	112.90
2	C	874	LEU	N-CA-C	5.31	119.24	112.34
2	M	102	HIS	N-CA-C	5.31	117.72	110.55
3	N	641	GLN	N-CA-C	5.31	118.19	110.17
1	A	169	ALA	N-CA-C	5.30	117.39	108.96
3	N	1060	SER	N-CA-C	-5.30	102.35	110.14
3	N	1099	VAL	CB-CA-C	-5.30	105.10	112.04
1	A	30	ARG	N-CA-C	5.30	122.08	110.80
2	C	264	PRO	CA-C-N	-5.30	114.36	122.62
2	C	264	PRO	C-N-CA	-5.30	114.36	122.62
2	M	742	VAL	CB-CA-C	-5.30	105.76	111.59
2	H	245	GLY	CA-C-N	-5.29	114.21	122.56
2	H	245	GLY	C-N-CA	-5.29	114.21	122.56
2	M	217	LEU	N-CA-C	-5.29	106.68	113.23
7	Z	80	GLY	N-CA-C	-5.28	106.25	111.85
2	H	1011	GLY	CA-C-N	5.28	126.44	119.84
2	H	1011	GLY	C-N-CA	5.28	126.44	119.84
7	Y	116	PRO	N-CA-C	-5.28	101.60	112.47
2	H	742	VAL	CB-CA-C	-5.28	105.79	111.59
2	H	542	VAL	CB-CA-C	-5.27	105.22	111.81
2	M	977	GLY	N-CA-C	-5.27	107.63	113.79
1	F	80	LEU	N-CA-C	-5.27	105.23	110.97
3	I	1107	VAL	CB-CA-C	-5.27	104.68	111.53
3	I	1060	SER	N-CA-C	-5.26	102.40	110.14
2	H	874	LEU	N-CA-C	5.26	119.18	112.34
3	N	810	GLU	N-CA-C	-5.26	106.01	112.90
3	D	385	VAL	N-CA-C	5.26	116.05	108.48
3	D	899	LEU	N-CA-C	5.26	119.24	112.41
3	I	168	THR	N-CA-C	5.26	118.38	109.76
2	H	1048	THR	N-CA-C	-5.25	105.67	111.71
1	K	169	ALA	N-CA-C	5.25	117.31	108.96
3	I	185	VAL	CA-C-N	5.25	129.67	121.85
3	I	185	VAL	C-N-CA	5.25	129.67	121.85
3	D	1095	THR	N-CA-C	-5.25	105.67	111.71
3	D	749	VAL	CB-CA-C	-5.25	104.86	110.16
2	M	542	VAL	CB-CA-C	-5.24	105.26	111.81
1	F	160	ASP	N-CA-C	-5.24	105.21	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	977	GLY	N-CA-C	-5.24	107.66	113.79
3	I	1428	ALA	N-CA-C	-5.23	105.22	111.03
1	F	169	ALA	N-CA-C	5.23	117.28	108.96
2	C	542	VAL	CB-CA-C	-5.23	105.28	111.81
2	C	1080	SER	N-CA-C	-5.23	103.01	110.59
2	M	874	LEU	N-CA-C	5.22	119.13	112.34
3	N	180	LYS	N-CA-C	5.22	117.94	109.79
1	K	30	ARG	N-CA-C	5.22	121.93	110.80
3	D	455	ARG	CA-C-N	-5.22	114.48	122.62
3	D	455	ARG	C-N-CA	-5.22	114.48	122.62
2	M	1080	SER	N-CA-C	-5.21	103.03	110.59
3	N	749	VAL	CB-CA-C	-5.21	104.90	110.16
1	A	226	SER	N-CA-C	5.21	121.89	110.80
2	H	178	PRO	CA-C-N	-5.21	111.60	121.54
2	H	178	PRO	C-N-CA	-5.21	111.60	121.54
3	N	583	ASP	CB-CA-C	-5.21	103.84	111.23
2	C	494	TYR	N-CA-C	5.20	117.44	109.95
3	D	1060	SER	N-CA-C	-5.20	102.50	110.14
1	K	33	GLY	N-CA-C	-5.19	106.50	112.83
3	D	118	LEU	N-CA-C	-5.17	104.05	110.41
3	I	583	ASP	CB-CA-C	-5.16	103.90	111.23
2	H	608	GLY	N-CA-C	-5.16	106.72	115.34
3	D	51	GLY	CA-C-N	5.15	126.28	119.84
3	D	51	GLY	C-N-CA	5.15	126.28	119.84
1	K	230	ALA	N-CA-C	5.15	116.90	109.07
2	M	464	LEU	N-CA-C	5.15	117.05	110.61
3	N	1428	ALA	N-CA-C	-5.15	105.31	111.03
1	K	226	SER	N-CA-C	5.15	121.76	110.80
2	M	64	LEU	N-CA-C	5.14	117.62	109.24
2	C	977	GLY	N-CA-C	-5.14	107.77	113.79
1	L	61	VAL	N-CA-C	5.13	116.67	108.87
5	T	18	DC	C2'-C3'-O3'	-5.13	103.80	111.50
3	D	508	ARG	N-CA-C	5.13	117.16	110.08
2	H	1009	SER	N-CA-C	-5.13	106.71	113.12
1	B	124	ASN	CA-C-N	5.13	126.25	119.84
1	B	124	ASN	C-N-CA	5.13	126.25	119.84
3	I	1477	GLY	N-CA-C	-5.13	107.95	114.16
1	B	61	VAL	N-CA-C	5.13	116.67	108.87
1	F	226	SER	N-CA-C	5.13	121.72	110.80
3	I	508	ARG	N-CA-C	5.12	117.14	110.08
2	M	261	ILE	N-CA-C	5.12	119.98	109.34
3	I	831	GLY	N-CA-C	-5.11	101.07	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	729	LEU	N-CA-C	5.11	123.74	113.31
3	N	1389	LEU	N-CA-C	5.11	121.69	110.80
3	I	140	ALA	N-CA-C	5.11	118.98	112.34
3	N	508	ARG	N-CA-C	5.10	117.11	110.08
3	N	831	GLY	N-CA-C	-5.09	101.11	113.18
3	I	899	LEU	N-CA-C	5.09	119.03	112.41
4	O	57	ASP	N-CA-C	5.09	121.06	109.81
3	N	579	ASP	N-CA-C	-5.08	105.63	111.07
4	E	57	ASP	N-CA-C	5.08	121.04	109.81
1	K	135	GLY	N-CA-C	-5.08	106.43	114.10
3	D	1107	VAL	N-CA-C	5.07	114.05	106.85
2	M	78	PHE	CA-C-N	5.06	126.18	120.66
2	M	78	PHE	C-N-CA	5.06	126.18	120.66
3	D	859	ASP	N-CA-C	-5.06	103.72	110.55
3	D	831	GLY	N-CA-C	-5.06	101.19	113.18
2	H	309	TYR	N-CA-C	-5.06	107.28	113.50
1	F	135	GLY	N-CA-C	-5.05	106.48	114.10
2	H	494	TYR	N-CA-C	5.04	117.92	110.46
3	N	675	ARG	N-CA-C	-5.04	105.79	111.28
1	A	135	GLY	N-CA-C	-5.04	106.50	114.10
3	D	1283	ILE	CB-CA-C	-5.03	104.30	111.19
2	C	761	PHE	N-CA-C	5.03	117.52	110.23
3	N	1462	LEU	N-CA-C	5.03	116.45	110.97
3	N	812	ALA	N-CA-C	-5.02	107.00	113.23
2	M	81	ASP	N-CA-C	-5.02	105.89	111.36
2	M	323	ASP	N-CA-C	5.02	116.94	108.96
1	K	84	GLU	N-CA-C	-5.02	107.16	113.28
3	D	34	TYR	N-CA-C	5.01	116.75	111.28
3	D	540	LEU	N-CA-C	5.01	118.17	111.75
2	H	142	ARG	N-CA-C	-5.01	100.12	110.80
3	N	441	ARG	CB-CA-C	-5.01	101.12	109.75
3	D	487	ALA	N-CA-C	5.01	116.74	111.28
2	C	235	LEU	N-CA-C	-5.01	105.53	111.69
3	N	1281	VAL	N-CA-C	5.01	116.51	108.89
2	H	409	ARG	N-CA-C	5.01	118.28	110.32
2	M	94	LEU	N-CA-C	5.01	116.58	108.41
1	A	84	GLU	N-CA-C	-5.01	107.17	113.28
3	D	138	LYS	N-CA-C	5.01	116.66	108.55
2	H	361	MET	N-CA-C	5.01	118.65	112.54

There are no chirality outliers.

All (22) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	267	TYR	Sidechain
2	C	589	ARG	Sidechain
2	C	642	ARG	Sidechain
2	C	71	TYR	Sidechain
2	C	735	ARG	Sidechain
3	D	1058	ARG	Sidechain
3	D	1327	ARG	Sidechain
2	H	642	ARG	Sidechain
3	I	1029	ARG	Sidechain
3	I	1058	ARG	Sidechain
3	I	1327	ARG	Sidechain
3	I	783	ARG	Sidechain
2	M	202	TYR	Sidechain
2	M	642	ARG	Sidechain
2	M	84	ARG	Sidechain
3	N	1058	ARG	Sidechain
3	N	1327	ARG	Sidechain
3	N	215	TYR	Sidechain
3	N	56	TYR	Sidechain
3	N	783	ARG	Sidechain
6	Q	12	G	Sidechain
6	S	9	U	Sidechain

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	1759	0	1805	214	3
1	B	1759	0	1805	275	2
1	F	1759	0	1805	201	3
1	G	1764	0	1810	263	3
1	K	1769	0	1815	206	0
1	L	1759	0	1805	228	0
2	C	8550	0	8654	1463	1
2	H	8524	0	8626	1571	0
2	M	8555	0	8658	1578	1
3	D	10384	0	10615	1800	3
3	I	9965	0	10206	1752	1
3	N	10475	0	10699	1848	3

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	E	754	0	769	100	0
4	J	754	0	769	119	0
4	O	754	0	769	112	0
5	P	136	0	79	4	0
5	R	119	0	68	12	0
5	T	98	0	57	8	0
6	Q	152	0	78	10	0
6	S	172	0	88	12	0
6	U	152	0	79	12	0
7	X	1189	0	1205	150	0
7	Y	1169	0	1186	158	0
7	Z	1169	0	1186	148	0
8	D	1	0	0	0	0
8	I	1	0	0	0	0
8	N	1	0	0	0	0
9	D	1	0	0	0	0
9	N	1	0	0	0	0
9	S	1	0	0	0	0
All	All	73646	0	74636	11084	10

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 75.

All (11084) 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)
3:N:50:PHE:CD2	3:N:522:PRO:HD3	1.20	1.62
2:H:182:VAL:HG11	2:H:193:LEU:CD2	1.09	1.56
2:H:1090:LYS:HE3	3:I:90:MET:SD	1.45	1.55
2:H:182:VAL:CG1	2:H:193:LEU:HD21	1.13	1.55
3:I:783:ARG:NH1	7:Y:41:ASP:CB	1.67	1.53
2:C:193:LEU:CD2	2:C:307:LEU:HD22	1.36	1.52
3:I:131:LYS:HG3	3:I:568:ARG:CD	1.35	1.51
2:H:1019:GLN:CD	3:I:621:LYS:HG3	1.35	1.51
3:N:50:PHE:CD2	3:N:522:PRO:CD	1.92	1.50
2:H:1019:GLN:NE2	3:I:621:LYS:CG	1.71	1.47
3:I:50:PHE:O	3:I:89:ARG:CD	1.65	1.44
3:I:131:LYS:CG	3:I:568:ARG:HD3	1.43	1.44
3:D:136:ASP:CG	3:D:137:PRO:HD3	1.43	1.42
2:C:1004:LYS:HD2	3:D:744:GLN:NE2	1.29	1.42
3:I:783:ARG:NH1	7:Y:41:ASP:HB3	1.20	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:970:LYS:NZ	7:Z:113:LEU:HD23	1.11	1.41
1:B:187:GLY:HA3	3:D:685:ASP:CB	1.50	1.40
1:G:185:ARG:CZ	3:I:692:GLU:HG2	1.49	1.40
3:N:970:LYS:NZ	7:Z:113:LEU:CD2	1.84	1.39
2:M:39:ARG:HE	2:M:45:GLN:NE2	1.13	1.38
3:N:783:ARG:CD	7:Z:41:ASP:OD2	1.71	1.38
3:D:127:LEU:O	3:D:457:GLY:HA2	1.20	1.36
3:N:783:ARG:HH11	7:Z:41:ASP:CB	1.35	1.36
2:H:1019:GLN:CD	3:I:621:LYS:CG	1.98	1.35
2:H:1090:LYS:CE	3:I:90:MET:SD	2.12	1.35
2:M:39:ARG:HG2	2:M:45:GLN:CD	1.52	1.34
3:D:87:ARG:HB3	3:D:523:ASP:CB	1.58	1.33
2:H:1086:ARG:NH1	3:I:88:TYR:CE2	1.96	1.33
2:M:911:GLU:OE1	3:N:951:ILE:CD1	1.76	1.32
2:M:911:GLU:OE1	3:N:951:ILE:HD11	1.14	1.31
3:D:87:ARG:CB	3:D:523:ASP:HB2	1.61	1.30
3:D:50:PHE:CD2	3:D:522:PRO:HD3	1.64	1.30
3:N:783:ARG:NH1	7:Z:41:ASP:CB	1.90	1.30
3:I:131:LYS:CG	3:I:568:ARG:CD	2.02	1.29
1:G:185:ARG:NE	3:I:692:GLU:HG2	1.46	1.29
2:H:1004:LYS:HD2	3:I:744:GLN:NE2	1.45	1.29
2:H:122:THR:CG2	2:H:124:ASP:OD1	1.81	1.29
2:M:1090:LYS:HE3	3:N:90:MET:CG	1.63	1.29
3:N:783:ARG:NH1	7:Z:41:ASP:HB2	1.41	1.29
2:C:685:GLU:HG3	7:X:41:ASP:OD1	1.20	1.28
2:M:39:ARG:CG	2:M:45:GLN:OE1	1.80	1.28
3:N:50:PHE:CG	3:N:522:PRO:HG2	1.68	1.28
3:N:970:LYS:CE	7:Z:113:LEU:HD23	1.60	1.28
3:I:12:LEU:HD21	3:I:104:PHE:CE1	1.70	1.27
2:M:122:THR:CG2	2:M:124:ASP:OD1	1.81	1.26
2:C:185:LYS:CD	2:C:190:LYS:HG2	1.64	1.26
3:N:50:PHE:CG	3:N:522:PRO:CG	2.17	1.25
2:M:41:ASN:O	2:M:46:ALA:HB2	1.12	1.25
2:H:1019:GLN:CD	3:I:621:LYS:CD	2.09	1.25
3:N:675:ARG:O	3:N:679:ARG:HB2	1.37	1.24
2:M:84:ARG:NH2	2:M:133:ASP:OD2	1.71	1.23
2:H:309:TYR:O	2:H:313:LEU:HD13	1.36	1.23
2:H:1019:GLN:CD	3:I:621:LYS:HD2	1.63	1.23
2:M:39:ARG:NE	2:M:45:GLN:NE2	1.85	1.23
2:H:1103:ASP:OD2	3:I:2:LYS:HA	1.33	1.22
3:I:131:LYS:CB	3:I:568:ARG:HD2	1.69	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:86:ARG:CG	3:N:523:ASP:OD2	1.86	1.22
2:C:879:ARG:NH2	7:X:42:ASP:OD1	1.73	1.21
3:D:124:GLU:HG3	3:D:128:TYR:CE1	1.75	1.21
2:H:1086:ARG:CZ	3:I:88:TYR:CE2	2.23	1.21
2:M:30:LEU:O	2:M:30:LEU:HD12	1.40	1.21
2:M:217:LEU:HB2	2:M:311:PHE:CE1	1.74	1.21
3:N:86:ARG:HG2	3:N:523:ASP:OD2	1.34	1.21
2:M:1093:GLN:HB3	3:N:21:TRP:CZ3	1.76	1.20
2:C:1097:LEU:HD11	3:D:1451:ALA:CB	1.71	1.20
2:H:122:THR:HG22	2:H:124:ASP:OD1	1.42	1.20
2:M:140:ILE:CD1	2:M:331:ARG:HH21	1.54	1.20
3:N:970:LYS:HZ1	7:Z:113:LEU:CG	1.54	1.20
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	1.56	1.20
2:H:1030:GLN:NE2	3:I:628:ARG:HD3	1.57	1.19
3:N:970:LYS:HZ3	7:Z:113:LEU:CD2	1.43	1.19
3:D:157:GLU:O	3:D:161:LEU:CD1	1.89	1.19
2:M:1030:GLN:NE2	3:N:628:ARG:HD3	1.56	1.19
2:H:1019:GLN:NE2	3:I:621:LYS:HG3	0.87	1.19
3:N:452:ILE:O	3:N:452:ILE:HD13	1.39	1.19
3:I:131:LYS:HB2	3:I:568:ARG:CD	1.72	1.18
3:I:131:LYS:CB	3:I:568:ARG:CD	2.19	1.18
3:N:131:LYS:HG3	3:N:568:ARG:HD3	1.25	1.18
2:H:185:LYS:HD2	2:H:190:LYS:HG2	1.24	1.18
1:L:185:ARG:CZ	3:N:692:GLU:HG2	1.72	1.18
3:N:432:TYR:CD2	3:N:450:TYR:CD2	2.31	1.17
2:C:224:GLU:CB	2:C:228:ALA:HB2	1.73	1.17
2:M:122:THR:HG22	2:M:124:ASP:OD1	1.41	1.17
2:C:685:GLU:CG	7:X:41:ASP:OD1	1.92	1.16
7:Z:119:ILE:HG13	7:Z:125:MET:HE1	1.24	1.16
3:N:50:PHE:CD2	3:N:522:PRO:CG	2.28	1.16
1:B:187:GLY:CA	3:D:685:ASP:HA	1.75	1.16
2:H:182:VAL:HB	2:H:193:LEU:HD13	1.27	1.16
3:D:136:ASP:OD2	3:D:137:PRO:HD3	1.45	1.16
1:G:76:VAL:HB	3:I:872:ARG:NH1	1.58	1.16
2:M:564:MET:HE1	2:M:846:LYS:HE2	1.22	1.16
2:C:1097:LEU:HD11	3:D:1451:ALA:HB2	1.23	1.15
3:I:1254:GLN:HG2	3:I:1255:GLY:H	1.02	1.15
2:M:660:ALA:HB1	2:M:667:ALA:O	1.46	1.15
3:D:480:GLU:O	3:D:484:PRO:HD2	1.43	1.15
2:M:84:ARG:NE	2:M:133:ASP:OD1	1.79	1.15
2:M:84:ARG:HE	2:M:133:ASP:CG	1.53	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.27	1.15
3:N:783:ARG:HD2	7:Z:41:ASP:OD2	1.40	1.15
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	1.80	1.15
2:C:175:GLU:HG2	2:C:183:SER:HB3	1.22	1.14
2:H:603:VAL:HA	2:H:613:VAL:HG12	1.25	1.14
3:I:126:VAL:O	3:I:130:SER:HB3	1.45	1.14
7:X:57:ARG:HB2	7:X:57:ARG:HH21	1.12	1.14
2:H:267:TYR:HB2	2:H:272:ALA:HB1	1.29	1.14
3:D:134:VAL:HG21	3:D:460:ALA:CB	1.77	1.14
3:D:161:LEU:HD12	3:D:161:LEU:N	1.55	1.14
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.20	1.14
3:D:28:LYS:O	3:D:43:GLY:HA2	1.47	1.14
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.27	1.14
7:Z:6:LYS:HD2	7:Z:85:LEU:HD12	1.30	1.14
1:G:187:GLY:O	3:I:688:TRP:HD1	1.28	1.14
2:H:313:LEU:HG	2:H:320:HIS:CE1	1.83	1.14
2:M:111:ASP:CB	2:M:369:PRO:HG2	1.77	1.14
2:C:660:ALA:HB1	2:C:667:ALA:O	1.46	1.13
2:H:660:ALA:HB1	2:H:667:ALA:O	1.46	1.13
3:I:116:LEU:HD22	3:I:118:LEU:HG	1.30	1.13
2:M:676:ILE:CG2	2:M:988:VAL:HG13	1.78	1.13
2:H:1092:LEU:HD13	2:H:1099:VAL:HG21	1.20	1.13
3:D:28:LYS:HD2	3:D:29:PRO:HD2	1.29	1.13
3:D:762:GLN:HE21	4:E:20:THR:CG2	1.60	1.13
2:M:243:ARG:HB3	2:M:244:PRO:HD2	1.31	1.13
1:G:112:ARG:HD3	1:G:125:PRO:HB3	1.31	1.13
3:D:172:PRO:HG2	3:D:175:VAL:HG21	1.23	1.12
2:M:129:ILE:HG22	2:M:130:ASN:H	0.96	1.12
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.27	1.12
2:C:185:LYS:CG	2:C:190:LYS:HG2	1.79	1.12
3:D:136:ASP:CG	3:D:137:PRO:CD	2.21	1.12
3:D:991:GLN:NE2	7:X:112:VAL:HB	1.62	1.12
2:M:70:GLU:HB2	2:M:97:ARG:HH21	1.12	1.12
3:I:871:LYS:NZ	1:L:60:ASP:HA	1.64	1.12
3:I:50:PHE:O	3:I:89:ARG:HD3	1.37	1.12
3:I:142:LEU:HB3	3:I:145:VAL:O	1.46	1.12
1:K:25:LEU:HD22	1:L:225:PHE:CE2	1.83	1.12
2:M:834:GLN:HE22	3:N:724:GLN:HG3	1.06	1.12
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.24	1.12
3:N:680:GLN:HG3	3:N:682:ASP:O	1.50	1.12
2:C:193:LEU:CD2	2:C:307:LEU:CD2	2.27	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:28:LYS:O	3:N:43:GLY:HA2	1.47	1.12
7:Y:102:VAL:HG21	7:Y:125:MET:HE1	1.31	1.12
2:H:181:VAL:HG12	2:H:182:VAL:H	1.03	1.11
2:H:245:GLY:O	2:H:246:ASP:CG	1.93	1.11
2:H:1097:LEU:HD11	3:I:1451:ALA:HB2	1.23	1.11
3:I:611:GLN:HE22	6:S:9:U:H4'	1.09	1.11
3:I:408:GLU:HG3	3:I:409:VAL:H	1.08	1.11
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.29	1.11
2:C:193:LEU:HD23	2:C:307:LEU:CD2	1.81	1.11
2:H:111:ASP:CB	2:H:369:PRO:HG2	1.79	1.11
3:N:116:LEU:HD22	3:N:118:LEU:HG	1.30	1.11
3:N:1211:MET:HG2	3:N:1212:ALA:H	1.15	1.11
3:N:86:ARG:CD	3:N:523:ASP:OD2	1.99	1.11
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.20	1.10
3:N:970:LYS:HZ1	7:Z:113:LEU:CB	1.64	1.10
2:C:193:LEU:HD21	2:C:307:LEU:HD22	1.18	1.10
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.32	1.10
2:H:685:GLU:HG3	7:Y:41:ASP:OD1	1.50	1.10
3:N:28:LYS:HD2	3:N:29:PRO:HD2	1.33	1.10
3:D:116:LEU:HD22	3:D:118:LEU:HG	1.22	1.10
3:D:139:GLY:HA3	3:D:162:ARG:HH22	0.94	1.10
2:H:565:GLN:HE21	2:H:842:ARG:HG2	1.17	1.10
2:H:987:ILE:HG23	3:I:948:THR:HG21	1.32	1.10
2:C:196:LEU:HD23	2:C:200:LEU:HD11	1.18	1.10
2:H:1090:LYS:HE3	3:I:90:MET:CG	1.79	1.10
2:C:879:ARG:NH2	7:X:42:ASP:CG	2.10	1.09
2:H:878:SER:HA	3:I:1034:GLN:HE22	1.09	1.09
1:L:41:ARG:HG3	1:L:177:VAL:HG21	1.34	1.09
3:N:1362:LYS:HD2	7:Z:34:GLN:NE2	1.67	1.09
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.29	1.09
3:I:783:ARG:NH1	7:Y:41:ASP:HB2	1.52	1.09
1:L:74:ASP:HB2	3:N:872:ARG:HH22	1.05	1.09
1:B:187:GLY:HA3	3:D:685:ASP:CA	1.80	1.09
3:D:1359:GLN:HE22	7:X:52:LYS:HE2	1.01	1.09
1:G:112:ARG:HH11	1:G:125:PRO:HB2	0.96	1.09
2:H:1052:MET:SD	3:I:623:VAL:HG11	1.92	1.09
1:B:187:GLY:HA3	3:D:685:ASP:HB3	1.32	1.09
3:D:785:ILE:H	3:D:785:ILE:HD12	1.00	1.09
2:H:182:VAL:HG12	2:H:193:LEU:HD11	1.35	1.09
2:H:193:LEU:CD1	2:H:193:LEU:H	1.64	1.09
2:M:1074:GLU:HG2	2:M:1075:ASP:H	1.18	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:520:LEU:HD11	3:I:524:LEU:HD22	1.20	1.09
2:M:217:LEU:HB2	2:M:311:PHE:CD1	1.88	1.09
3:D:1211:MET:HG2	3:D:1212:ALA:H	1.15	1.08
2:H:266:ARG:HA	2:H:288:ARG:HD3	1.30	1.08
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.09	1.08
2:C:1074:GLU:HG2	2:C:1075:ASP:H	1.18	1.08
3:D:126:VAL:HG13	3:D:132:TYR:CD2	1.88	1.08
3:D:160:GLU:HA	3:D:165:LYS:HB2	1.35	1.08
2:H:188:LYS:NZ	2:H:188:LYS:HB2	1.60	1.08
3:N:397:LYS:HE2	3:N:448:GLU:HB3	1.31	1.08
2:C:564:MET:HE1	2:C:846:LYS:HE2	1.35	1.08
2:C:1065:ALA:HB1	2:C:1077:PRO:HG2	1.27	1.08
3:I:119:SER:HB2	3:I:123:LEU:HB2	1.33	1.08
2:M:1004:LYS:HD2	3:N:744:GLN:HE22	1.12	1.08
2:M:1097:LEU:HD11	3:N:1451:ALA:HB2	1.33	1.08
2:C:911:GLU:OE1	3:D:951:ILE:HD13	1.51	1.08
2:H:1019:GLN:CG	3:I:621:LYS:HD2	1.84	1.08
2:C:224:GLU:HB3	2:C:228:ALA:HB2	1.36	1.07
2:C:1099:VAL:HG22	3:D:10:ILE:HG12	1.34	1.07
3:D:762:GLN:NE2	4:E:20:THR:HG21	1.68	1.07
2:H:260:LEU:HB2	2:H:291:ALA:HB1	1.36	1.07
3:I:131:LYS:HB2	3:I:568:ARG:HD2	1.14	1.07
3:I:1211:MET:HG2	3:I:1212:ALA:H	1.15	1.07
3:N:1257:PRO:HA	3:N:1260:ILE:HD12	1.30	1.07
2:H:165:LEU:O	2:H:265:ARG:HD2	1.54	1.07
2:H:328:LEU:HD13	2:H:433:THR:HB	1.33	1.07
2:H:1081:VAL:HG21	2:H:1111:ILE:HG22	1.29	1.07
2:H:1084:SER:HB3	3:I:617:ASN:OD1	1.51	1.07
2:M:6:PHE:HZ	2:M:901:TYR:CD2	1.70	1.07
2:M:170:PRO:HD3	2:M:263:ASP:HB3	1.17	1.07
2:M:328:LEU:HD13	2:M:433:THR:HB	1.36	1.07
3:N:131:LYS:CG	3:N:568:ARG:HD3	1.60	1.07
3:D:136:ASP:CB	3:D:137:PRO:CD	2.32	1.07
3:D:161:LEU:HD12	3:D:161:LEU:H	1.09	1.07
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.36	1.07
2:H:576:ALA:HB3	2:H:900:ARG:NH1	1.69	1.07
3:N:1362:LYS:HD2	7:Z:34:GLN:HE22	1.19	1.07
2:C:111:ASP:CB	2:C:369:PRO:HG2	1.85	1.07
2:C:193:LEU:HD23	2:C:307:LEU:HD22	1.16	1.07
2:H:309:TYR:O	2:H:313:LEU:CD1	2.03	1.07
2:M:140:ILE:HD13	2:M:331:ARG:HH21	1.19	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:334:ARG:HH12	2:M:415:PRO:HG2	1.19	1.07
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.31	1.07
2:H:160:ALA:HB3	2:H:174:LEU:HB2	1.32	1.07
2:M:39:ARG:CG	2:M:45:GLN:CD	2.24	1.07
2:M:217:LEU:HD12	2:M:311:PHE:CD1	1.89	1.07
1:B:74:ASP:HB2	3:D:872:ARG:HH22	1.15	1.06
2:C:267:TYR:HB2	2:C:272:ALA:HB1	1.36	1.06
2:C:1093:GLN:HB3	3:D:21:TRP:CZ3	1.90	1.06
2:H:182:VAL:HB	2:H:193:LEU:CD1	1.83	1.06
2:H:685:GLU:CG	7:Y:41:ASP:OD1	2.03	1.06
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.34	1.06
3:N:15:PRO:HB3	3:N:515:GLU:OE1	1.53	1.06
3:N:432:TYR:HD2	3:N:450:TYR:CE2	1.73	1.06
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.07	1.06
2:H:267:TYR:HB2	2:H:272:ALA:CB	1.85	1.06
7:X:24:GLU:HA	7:X:27:GLN:HE21	1.16	1.06
2:C:185:LYS:HD2	2:C:190:LYS:HG2	1.11	1.06
3:D:1258:ARG:HH12	3:D:1262:LEU:HD13	1.16	1.06
2:H:290:LEU:HB3	2:H:302:VAL:HG11	1.34	1.06
3:I:134:VAL:HG21	3:I:460:ALA:HB1	1.30	1.06
2:M:39:ARG:HG2	2:M:45:GLN:OE1	0.88	1.06
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.33	1.06
1:B:185:ARG:CZ	3:D:692:GLU:HG2	1.85	1.06
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.38	1.06
3:I:1372:VAL:HA	3:I:1375:MET:HE3	1.38	1.06
2:M:188:LYS:HB2	2:M:188:LYS:HZ3	0.90	1.05
3:N:996:TRP:CG	3:N:1056:PRO:HG2	1.89	1.05
2:C:565:GLN:HE21	2:C:842:ARG:HG2	1.21	1.05
3:I:89:ARG:O	3:I:521:PRO:HG3	1.56	1.05
3:N:783:ARG:HD2	7:Z:41:ASP:CG	1.81	1.05
3:I:28:LYS:HD2	3:I:29:PRO:HD2	1.33	1.05
3:I:204:LEU:HB3	3:I:394:LEU:HG	1.39	1.05
3:I:785:ILE:HD12	3:I:785:ILE:H	1.20	1.05
2:C:111:ASP:HB3	2:C:369:PRO:HG2	1.06	1.05
3:D:176:ASP:HB3	3:D:389:GLU:HG2	1.39	1.05
3:D:1121:PRO:HB2	3:D:1135:ARG:HH12	1.13	1.05
1:G:185:ARG:CZ	3:I:692:GLU:CG	2.34	1.05
3:I:762:GLN:HE21	4:J:20:THR:HG21	0.89	1.05
3:N:81:THR:CG2	3:N:82:LYS:H	1.68	1.05
2:C:129:ILE:HG22	2:C:130:ASN:H	1.22	1.05
2:M:109:LYS:HD3	2:M:368:THR:CG2	1.87	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:157:ARG:HD3	2:M:314:THR:OG1	1.56	1.05
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	0.97	1.05
2:M:564:MET:HE1	2:M:846:LYS:CE	1.85	1.05
2:M:1099:VAL:HG22	3:N:10:ILE:HG12	1.38	1.05
1:F:90:LEU:HD13	1:F:119:ASP:O	1.57	1.04
1:K:90:LEU:HD13	1:K:119:ASP:O	1.57	1.04
2:M:129:ILE:HD13	2:M:134:ARG:HG3	1.08	1.04
2:H:193:LEU:N	2:H:193:LEU:HD12	1.68	1.04
2:H:265:ARG:HB3	2:H:267:TYR:CE2	1.91	1.04
2:H:451:LEU:C	2:H:452:ILE:HD12	1.81	1.04
1:K:226:SER:O	1:K:228:PRO:HD3	1.56	1.04
2:M:41:ASN:O	2:M:46:ALA:CB	2.05	1.04
3:N:783:ARG:NH1	7:Z:41:ASP:HB3	1.69	1.04
3:N:1372:VAL:HA	3:N:1375:MET:HE3	1.38	1.04
3:D:139:GLY:HA3	3:D:162:ARG:NH2	1.73	1.04
2:M:200:LEU:HD13	2:M:300:ASP:OD2	1.58	1.04
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.39	1.04
1:F:42:ARG:NH1	1:G:34:VAL:HB	1.73	1.04
2:H:196:LEU:HD23	2:H:200:LEU:HD11	1.40	1.04
2:H:1005:MET:SD	3:I:724:GLN:OE1	2.15	1.04
2:C:1099:VAL:HG22	3:D:10:ILE:CG1	1.88	1.04
3:N:187:LYS:HB2	3:N:200:ASP:HB2	1.34	1.04
3:D:129:PHE:CZ	3:D:587:ARG:NE	2.25	1.03
3:I:50:PHE:O	3:I:89:ARG:CG	2.06	1.03
3:I:136:ASP:HB3	3:I:137:PRO:HD3	1.34	1.03
3:N:81:THR:HG22	3:N:82:LYS:N	1.68	1.03
3:N:785:ILE:H	3:N:785:ILE:HD12	1.20	1.03
2:H:1104:GLU:OE2	3:I:3:LYS:NZ	1.91	1.03
3:I:762:GLN:NE2	4:J:20:THR:HG21	1.72	1.03
3:D:165:LYS:HD3	3:D:167:GLU:HB2	1.39	1.03
2:H:111:ASP:HB2	2:H:369:PRO:CG	1.89	1.03
2:H:564:MET:HE1	2:H:846:LYS:HE2	1.39	1.03
2:H:1074:GLU:HG2	2:H:1075:ASP:H	1.18	1.03
3:I:162:ARG:HD2	3:I:452:ILE:HG21	1.36	1.03
2:M:217:LEU:HD12	2:M:311:PHE:CG	1.92	1.03
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.37	1.03
1:A:90:LEU:HD13	1:A:119:ASP:O	1.57	1.03
2:M:565:GLN:HE21	2:M:842:ARG:HG2	1.22	1.03
1:A:56:VAL:HG13	1:A:142:VAL:HG12	1.40	1.03
2:C:383:ARG:HB2	2:C:383:ARG:HH11	1.21	1.03
2:H:109:LYS:HD3	2:H:368:THR:HG23	1.40	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:991:GLN:HE22	7:Y:112:VAL:CG2	1.71	1.03
2:M:432:ARG:HH22	3:N:1047:LYS:CD	1.71	1.03
2:H:21:ILE:H	2:H:21:ILE:HD12	1.16	1.02
2:M:122:THR:HG21	2:M:124:ASP:OD1	1.55	1.02
3:N:131:LYS:CG	3:N:568:ARG:CD	2.26	1.02
3:N:141:ILE:HG13	3:N:448:GLU:CD	1.84	1.02
2:C:224:GLU:HB3	2:C:228:ALA:CB	1.88	1.02
2:C:211:LEU:HD23	2:C:221:LEU:CD2	1.88	1.02
3:D:124:GLU:HG3	3:D:128:TYR:CD1	1.94	1.02
3:N:1305:LEU:HD12	3:N:1311:LEU:HD22	1.42	1.02
1:A:24:VAL:HG13	1:A:196:THR:HG22	1.42	1.02
3:D:159:ARG:NH2	2:H:218:VAL:HG11	1.75	1.02
1:G:112:ARG:HH11	1:G:125:PRO:CB	1.73	1.02
2:H:1090:LYS:CD	3:I:90:MET:SD	2.47	1.02
1:B:62:LEU:HD13	1:B:63:HIS:H	1.24	1.02
3:D:762:GLN:HE21	4:E:20:THR:HG21	0.85	1.02
3:N:1256:LEU:O	3:N:1260:ILE:HG13	1.59	1.02
2:M:1090:LYS:HE3	3:N:90:MET:HG2	1.42	1.01
3:N:214:GLU:HG2	3:N:342:PRO:HB3	1.42	1.01
3:N:432:TYR:HD2	3:N:450:TYR:CD2	1.73	1.01
3:N:407:VAL:HG22	3:N:408:GLU:H	1.21	1.01
1:B:62:LEU:H	1:B:62:LEU:HD12	1.21	1.01
2:C:224:GLU:HB2	2:C:228:ALA:HB2	1.43	1.01
3:D:166:GLN:HG2	3:D:396:VAL:HG12	1.42	1.01
3:D:1359:GLN:NE2	7:X:52:LYS:HE2	1.74	1.01
2:H:36:PRO:O	2:H:39:ARG:HG3	1.59	1.01
2:H:332:ARG:HG3	2:H:465:GLY:HA3	1.41	1.01
2:H:1093:GLN:HB3	3:I:21:TRP:CZ3	1.94	1.01
2:M:1004:LYS:HD2	3:N:744:GLN:NE2	1.75	1.01
3:N:1031:ASN:HD21	7:Z:32:ILE:HG23	1.23	1.01
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.40	1.01
2:C:115:LEU:HA	2:C:375:SER:OG	1.59	1.01
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.36	1.01
3:D:1106:VAL:HB	3:D:1108:ARG:HE	1.21	1.01
1:F:56:VAL:HG13	1:F:142:VAL:HG12	1.40	1.01
2:C:325:ILE:HD12	2:C:325:ILE:H	1.20	1.01
3:D:119:SER:CB	3:D:123:LEU:HB2	1.90	1.01
3:D:136:ASP:HB3	3:D:137:PRO:HD2	1.41	1.01
3:D:677:LEU:HD23	3:D:683:ILE:HD11	1.42	1.01
2:M:265:ARG:HH12	2:M:332:ARG:HH12	1.02	1.01
3:N:81:THR:HG22	3:N:82:LYS:H	1.19	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:50:PHE:CD2	3:D:522:PRO:CD	2.42	1.00
2:M:129:ILE:HD13	2:M:134:ARG:CG	1.91	1.00
2:M:172:ILE:HG23	2:M:186:VAL:HG12	1.40	1.00
2:M:676:ILE:HG21	2:M:988:VAL:HG13	1.38	1.00
3:N:783:ARG:HD3	7:Z:41:ASP:OD2	1.55	1.00
1:B:185:ARG:NE	3:D:692:GLU:HG2	1.76	1.00
2:C:175:GLU:HG2	2:C:183:SER:CB	1.91	1.00
2:C:576:ALA:HB3	2:C:900:ARG:NH1	1.76	1.00
3:D:136:ASP:HB3	3:D:137:PRO:CD	1.92	1.00
3:D:1123:PHE:HE2	3:D:1184:GLN:HA	1.24	1.00
1:G:185:ARG:NH1	3:I:692:GLU:HB3	1.77	1.00
2:H:1056:LYS:HD3	3:I:623:VAL:CG1	1.91	1.00
3:I:36:THR:OG1	3:I:40:GLU:OE2	1.77	1.00
3:D:15:PRO:HB3	3:D:515:GLU:OE1	1.59	1.00
3:D:28:LYS:CD	3:D:29:PRO:HD2	1.91	1.00
2:H:182:VAL:CG1	2:H:193:LEU:CD2	1.91	1.00
3:N:1256:LEU:HG	3:N:1260:ILE:HD11	1.42	1.00
7:Z:14:ARG:HB3	7:Z:14:ARG:HH11	1.21	1.00
2:M:267:TYR:HB2	2:M:272:ALA:CB	1.91	1.00
3:N:1233:GLY:HA2	3:N:1236:LEU:HD12	1.43	1.00
2:C:1081:VAL:HG21	2:C:1111:ILE:CG2	1.91	1.00
2:M:84:ARG:HH11	2:M:84:ARG:HG3	1.27	1.00
2:H:675:ALA:HA	2:H:989:VAL:HG12	1.43	1.00
2:C:1011:GLY:HA3	2:C:1026:GLN:HG2	1.44	0.99
2:H:122:THR:HG21	2:H:124:ASP:OD1	1.55	0.99
2:H:432:ARG:HH22	3:I:1047:LYS:HD3	1.25	0.99
4:J:6:ILE:HA	4:J:9:LEU:HD12	1.42	0.99
2:M:6:PHE:HE1	2:M:901:TYR:HB3	1.25	0.99
2:M:6:PHE:CZ	2:M:901:TYR:HD2	1.79	0.99
2:M:80:GLN:CG	2:M:90:TYR:CE2	2.44	0.99
7:X:57:ARG:HB2	7:X:57:ARG:NH2	1.75	0.99
1:G:112:ARG:NH1	1:G:125:PRO:HB2	1.77	0.99
2:H:111:ASP:HB2	2:H:369:PRO:HG2	1.00	0.99
2:M:211:LEU:HD23	2:M:221:LEU:HD21	1.42	0.99
3:I:40:GLU:HA	3:I:40:GLU:OE1	1.61	0.99
1:K:56:VAL:HG13	1:K:142:VAL:HG12	1.40	0.99
2:C:1004:LYS:CD	3:D:744:GLN:NE2	2.25	0.99
3:N:387:LEU:H	3:N:387:LEU:HD12	1.27	0.99
2:C:197:LEU:HD13	2:C:207:LEU:HD11	1.41	0.99
2:M:274:ARG:HD2	2:M:285:LEU:HD22	1.44	0.99
1:K:42:ARG:NH1	1:L:34:VAL:HB	1.78	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1090:LYS:HE3	3:D:90:MET:CG	1.92	0.99
3:D:31:THR:HG23	3:D:545:ARG:HD3	1.42	0.99
2:M:1093:GLN:HB3	3:N:21:TRP:HZ3	1.16	0.99
3:D:126:VAL:HG13	3:D:132:TYR:CG	1.96	0.99
1:L:185:ARG:NE	3:N:692:GLU:HG2	1.76	0.99
2:M:52:PHE:CZ	2:M:98:LEU:HG	1.98	0.99
2:M:188:LYS:HB2	2:M:188:LYS:NZ	1.63	0.99
3:N:141:ILE:HD13	3:N:142:LEU:N	1.78	0.99
3:N:639:LEU:HD13	3:N:766:ALA:HB2	1.44	0.99
2:C:111:ASP:HB3	2:C:369:PRO:CG	1.92	0.98
3:N:133:ILE:O	3:N:152:LEU:HB2	1.63	0.98
3:N:456:MET:HE1	3:N:568:ARG:NH2	1.77	0.98
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.45	0.98
5:T:18:DC:H2''	5:T:19:DC:H5'	1.43	0.98
2:C:185:LYS:CG	2:C:190:LYS:CG	2.40	0.98
3:D:119:SER:HB2	3:D:123:LEU:CB	1.93	0.98
1:L:74:ASP:HB2	3:N:872:ARG:NH2	1.76	0.98
2:M:1085:PHE:HE2	3:N:1468:LEU:HG	1.29	0.98
2:C:267:TYR:HB2	2:C:272:ALA:CB	1.93	0.98
3:D:116:LEU:CD2	3:D:118:LEU:HG	1.91	0.98
7:Z:57:ARG:HH21	7:Z:57:ARG:HB2	1.27	0.98
1:G:76:VAL:HB	3:I:872:ARG:HH12	1.15	0.98
3:I:404:GLU:N	3:I:423:ASP:OD2	1.97	0.98
2:M:115:LEU:HD23	2:M:115:LEU:H	1.26	0.98
2:C:1086:ARG:HD3	3:D:88:TYR:CE1	1.97	0.98
2:H:1086:ARG:NH1	3:I:88:TYR:CD2	2.31	0.98
1:B:187:GLY:CA	3:D:685:ASP:CA	2.41	0.98
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.42	0.98
3:D:162:ARG:HG3	3:D:452:ILE:HG13	1.45	0.98
2:M:1095:LEU:HD11	2:M:1097:LEU:HB2	1.45	0.98
3:N:1484:THR:HG21	4:O:22:VAL:HG22	1.45	0.98
3:D:991:GLN:HE22	7:X:112:VAL:CB	1.75	0.98
3:I:809:PRO:HB2	3:I:812:ALA:HB2	1.42	0.98
2:M:52:PHE:HZ	2:M:98:LEU:HG	1.26	0.98
2:M:293:PHE:HD1	2:M:293:PHE:H	1.05	0.98
2:M:1065:ALA:HB1	2:M:1077:PRO:HG2	1.43	0.98
1:F:58:ILE:HD13	1:F:140:MET:HB3	1.45	0.98
3:N:432:TYR:CD2	3:N:450:TYR:CE2	2.52	0.98
3:I:177:ALA:HB2	3:I:390:PRO:HG3	1.41	0.98
3:I:1305:LEU:HD12	3:I:1311:LEU:HD22	1.42	0.98
1:K:58:ILE:HD13	1:K:140:MET:HB3	1.45	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:185:LYS:HG2	2:C:190:LYS:CG	1.93	0.97
2:M:111:ASP:CG	2:M:369:PRO:HG2	1.88	0.97
2:H:136:ILE:HG21	2:H:336:VAL:HG13	1.46	0.97
2:H:313:LEU:HA	2:H:320:HIS:ND1	1.78	0.97
2:H:1085:PHE:HE2	3:I:1468:LEU:HG	1.25	0.97
3:I:87:ARG:O	3:I:88:TYR:CD2	2.16	0.97
3:D:677:LEU:HD23	3:D:683:ILE:CD1	1.95	0.97
3:D:785:ILE:H	3:D:785:ILE:CD1	1.75	0.97
1:G:187:GLY:O	3:I:688:TRP:CD1	2.18	0.97
3:I:1465:ASN:HD21	3:I:1470:ARG:NH2	1.63	0.97
3:N:131:LYS:O	3:N:132:TYR:C	2.08	0.97
3:D:170:PRO:HD2	2:H:318:PRO:HB3	1.46	0.97
2:H:676:ILE:CG2	2:H:988:VAL:HG13	1.94	0.97
2:H:1095:LEU:HD11	2:H:1097:LEU:HB2	1.45	0.97
3:D:116:LEU:HD22	3:D:118:LEU:CG	1.93	0.97
2:M:6:PHE:CE1	2:M:901:TYR:HB3	1.98	0.97
2:M:200:LEU:HD22	2:M:300:ASP:CG	1.89	0.97
3:D:134:VAL:HG21	3:D:460:ALA:HB1	1.44	0.97
2:H:1029:GLY:O	3:I:622:ARG:HD3	1.64	0.97
2:M:129:ILE:HG22	2:M:130:ASN:N	1.74	0.97
2:C:1103:ASP:OD1	3:D:3:LYS:HB2	1.62	0.97
2:M:290:LEU:CB	2:M:302:VAL:HG11	1.94	0.97
3:D:806:PHE:CE1	3:D:813:LEU:HB3	1.99	0.97
1:G:112:ARG:CD	1:G:125:PRO:HB3	1.94	0.97
3:I:41:ARG:HA	3:I:46:ASP:OD1	1.63	0.97
3:I:50:PHE:O	3:I:89:ARG:HD2	1.65	0.97
1:K:42:ARG:HH12	1:L:34:VAL:HB	1.29	0.97
3:D:991:GLN:HE22	7:X:112:VAL:HB	0.82	0.96
3:I:540:LEU:HA	3:I:543:LEU:HD12	1.44	0.96
2:C:199:VAL:HG21	2:C:238:LEU:HD12	1.44	0.96
3:D:411:THR:HG23	3:D:436:GLU:HA	1.44	0.96
3:D:785:ILE:HD12	3:D:785:ILE:N	1.78	0.96
2:C:1081:VAL:HG21	2:C:1111:ILE:HG22	1.42	0.96
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.47	0.96
3:I:991:GLN:NE2	7:Y:112:VAL:CG2	2.27	0.96
2:M:129:ILE:CG2	2:M:130:ASN:H	1.78	0.96
2:M:170:PRO:CD	2:M:263:ASP:HB3	1.94	0.96
2:M:71:TYR:HA	2:M:96:ALA:HB2	1.47	0.96
2:M:565:GLN:NE2	2:M:842:ARG:HG2	1.78	0.96
1:A:42:ARG:HH12	1:B:34:VAL:CG1	1.79	0.96
2:C:1095:LEU:HD11	2:C:1097:LEU:HB2	1.45	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:182:VAL:CG1	2:H:193:LEU:HD11	1.95	0.96
2:M:101:ILE:HA	2:M:108:ILE:HG12	1.47	0.96
2:H:1097:LEU:HD11	3:I:1451:ALA:CB	1.94	0.96
3:I:160:GLU:HG2	3:I:165:LYS:HG3	1.48	0.96
3:N:432:TYR:CD2	3:N:450:TYR:HD2	1.74	0.96
3:N:970:LYS:CE	7:Z:113:LEU:CD2	2.33	0.96
3:D:139:GLY:O	3:D:147:VAL:HG11	1.65	0.96
1:G:41:ARG:HH11	1:G:177:VAL:HG23	1.26	0.96
3:I:639:LEU:HD13	3:I:766:ALA:HB2	1.44	0.96
2:M:109:LYS:HD3	2:M:368:THR:HG23	1.45	0.96
2:M:235:LEU:HD11	2:M:298:PHE:CZ	2.01	0.96
2:M:317:VAL:HG13	2:M:320:HIS:NE2	1.79	0.96
3:D:407:VAL:HG22	3:D:408:GLU:H	1.31	0.96
3:N:50:PHE:CG	3:N:522:PRO:CD	2.46	0.96
1:A:58:ILE:HD13	1:A:140:MET:HB3	1.45	0.96
2:C:939:ARG:HA	2:C:939:ARG:HE	1.30	0.96
1:G:76:VAL:CB	3:I:872:ARG:HH12	1.78	0.96
2:H:560:MET:O	2:H:564:MET:HG2	1.66	0.96
2:H:1019:GLN:HG3	3:I:621:LYS:HD2	1.48	0.96
3:I:407:VAL:HG22	3:I:408:GLU:H	1.28	0.96
3:I:762:GLN:HE21	4:J:20:THR:CG2	1.77	0.96
1:B:122:ILE:H	1:B:122:ILE:HD12	1.29	0.95
2:H:195:LEU:CD1	2:H:234:ALA:HB1	1.96	0.95
2:H:451:LEU:O	2:H:452:ILE:HD12	1.65	0.95
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.47	0.95
3:I:947:ILE:HD12	3:I:947:ILE:O	1.66	0.95
1:L:41:ARG:HH11	1:L:177:VAL:HG23	1.32	0.95
2:M:39:ARG:CD	2:M:45:GLN:CD	2.39	0.95
2:M:140:ILE:HD13	2:M:331:ARG:NH2	1.80	0.95
2:M:1011:GLY:HA3	2:M:1026:GLN:HG2	1.47	0.95
2:C:305:PRO:HG3	2:C:308:ARG:HH21	1.31	0.95
3:I:1161:GLU:OE2	3:I:1164:ARG:HD2	1.67	0.95
3:N:347:VAL:HG13	3:N:351:MET:HB2	1.49	0.95
3:D:639:LEU:HD13	3:D:766:ALA:HB2	1.44	0.95
2:H:304:LEU:HG	2:H:305:PRO:HD3	1.45	0.95
3:N:603:LEU:O	3:N:606:ILE:HG22	1.64	0.95
2:M:242:LEU:CD1	2:M:254:VAL:HG11	1.96	0.95
3:D:1052:THR:HG22	7:X:57:ARG:HH11	1.31	0.95
1:K:161:ARG:NH1	1:K:161:ARG:HB2	1.81	0.95
2:M:74:GLY:O	2:M:76:PRO:HD3	1.66	0.95
2:M:267:TYR:HB2	2:M:272:ALA:HB1	1.45	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:ARG:NH1	1:A:161:ARG:HB2	1.81	0.95
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.30	0.95
2:H:170:PRO:HD3	2:H:263:ASP:HB3	1.48	0.95
3:D:160:GLU:HG2	3:D:165:LYS:CB	1.97	0.95
2:H:170:PRO:CD	2:H:263:ASP:HB3	1.95	0.95
2:H:172:ILE:HG13	2:H:186:VAL:HG12	1.49	0.95
3:I:871:LYS:HZ2	1:L:60:ASP:HA	1.23	0.95
2:M:437:ARG:NH2	2:M:488:ALA:HA	1.82	0.95
3:D:161:LEU:CD1	3:D:161:LEU:N	2.30	0.95
1:K:86:VAL:HG12	1:K:124:ASN:HB2	1.49	0.95
2:C:1097:LEU:CD1	3:D:1451:ALA:CB	2.44	0.95
3:D:392:SER:C	3:D:393:ILE:HD12	1.91	0.95
1:F:161:ARG:HB2	1:F:161:ARG:NH1	1.81	0.95
3:N:373:PRO:HA	3:N:376:GLU:CD	1.91	0.95
3:N:970:LYS:NZ	7:Z:113:LEU:CG	2.20	0.95
3:N:997:THR:HG21	7:Z:61:ARG:CZ	1.97	0.95
2:H:1004:LYS:HD2	3:I:744:GLN:HE22	1.27	0.94
2:M:129:ILE:CD1	2:M:134:ARG:HG3	1.96	0.94
2:M:861:LEU:HG	2:M:862:PRO:HD2	1.49	0.94
1:A:109:VAL:HG12	1:A:129:ILE:HD12	1.49	0.94
2:C:363:SER:HB3	3:I:1130:ARG:O	1.67	0.94
2:H:313:LEU:HG	2:H:320:HIS:ND1	1.83	0.94
3:I:615:ARG:HG3	3:I:619:LEU:CG	1.97	0.94
1:F:86:VAL:HG12	1:F:124:ASN:HB2	1.49	0.94
3:D:349:PRO:HB3	2:H:274:ARG:NH1	1.81	0.94
2:H:182:VAL:CB	2:H:193:LEU:CD1	2.45	0.94
3:N:214:GLU:HA	3:N:342:PRO:HA	1.49	0.94
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.49	0.94
2:H:408:ARG:HH21	2:H:455:LEU:CD1	1.79	0.94
2:M:140:ILE:CD1	2:M:331:ARG:NH2	2.30	0.94
5:R:20:DG:H1	6:S:11:C:N4	1.64	0.94
2:C:182:VAL:HG11	2:C:193:LEU:CD2	1.97	0.94
2:H:293:PHE:HD1	2:H:293:PHE:H	1.12	0.94
2:M:80:GLN:HG2	2:M:90:TYR:CE2	2.03	0.94
2:M:560:MET:O	2:M:564:MET:HG2	1.66	0.94
2:M:939:ARG:HA	2:M:939:ARG:HE	1.30	0.94
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.48	0.94
3:D:161:LEU:CD1	3:D:161:LEU:H	1.79	0.94
2:M:118:ILE:HG22	2:M:382:ILE:HD13	1.48	0.94
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.49	0.94
7:Y:13:GLU:HG2	7:Y:17:GLN:HE21	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.49	0.94
2:C:478:VAL:HA	2:C:506:ASN:O	1.68	0.94
3:D:1052:THR:CG2	7:X:57:ARG:HH11	1.81	0.94
2:H:794:PRO:HD2	2:H:1024:LYS:O	1.68	0.94
1:K:109:VAL:HG12	1:K:129:ILE:HD12	1.49	0.94
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.50	0.94
7:Z:119:ILE:HG13	7:Z:125:MET:CE	1.97	0.94
2:H:182:VAL:HG11	2:H:193:LEU:HD22	1.50	0.94
2:M:188:LYS:HZ3	2:M:188:LYS:CB	1.79	0.94
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.03	0.94
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.49	0.93
3:D:1263:PHE:CE2	3:D:1371:VAL:HG11	2.03	0.93
2:H:355:VAL:HG23	2:H:372:LEU:HG	1.50	0.93
2:H:1110:ASP:OD1	2:H:1112:PHE:CD1	2.20	0.93
3:I:1481:VAL:HG11	4:J:18:ARG:HA	1.47	0.93
1:L:187:GLY:O	3:N:688:TRP:HD1	1.51	0.93
2:H:313:LEU:CG	2:H:320:HIS:CE1	2.51	0.93
2:M:408:ARG:HH21	2:M:455:LEU:CD1	1.80	0.93
2:M:572:ILE:HD12	2:M:573:ARG:H	1.32	0.93
3:N:970:LYS:CD	7:Z:113:LEU:HD23	1.97	0.93
2:C:560:MET:O	2:C:564:MET:HG2	1.67	0.93
3:D:1112:CYS:HB2	3:D:1195:GLN:HG2	1.48	0.93
3:I:603:LEU:O	3:I:606:ILE:HG22	1.68	0.93
2:C:676:ILE:CG2	2:C:988:VAL:HG13	1.99	0.93
2:M:564:MET:CE	2:M:846:LYS:HD2	1.98	0.93
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.49	0.93
2:H:939:ARG:HA	2:H:939:ARG:HE	1.30	0.93
2:M:101:ILE:HD12	2:M:108:ILE:HD11	1.50	0.93
3:D:127:LEU:CD2	3:D:134:VAL:HG13	1.97	0.93
3:D:480:GLU:O	3:D:484:PRO:CD	2.16	0.93
3:D:563:PRO:HA	2:H:223:ASP:HB2	1.48	0.93
3:D:631:ILE:HD12	3:D:743:ASP:O	1.69	0.93
3:D:1106:VAL:HB	3:D:1108:ARG:NE	1.82	0.93
3:D:1254:GLN:HA	3:D:1258:ARG:HB2	1.50	0.93
2:H:64:LEU:HB2	2:H:359:MET:HG3	1.50	0.93
2:H:565:GLN:NE2	2:H:842:ARG:HG2	1.83	0.93
3:N:631:ILE:HD12	3:N:743:ASP:O	1.68	0.93
2:C:477:GLY:O	2:C:507:ARG:HA	1.69	0.93
3:D:134:VAL:HG21	3:D:460:ALA:HB2	1.49	0.93
1:F:42:ARG:HH12	1:G:34:VAL:HB	1.25	0.93
1:G:170:VAL:HG11	3:I:848:GLU:OE2	1.69	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:75:VAL:O	1:L:79:ILE:HG23	1.67	0.93
3:N:166:GLN:HE22	3:N:394:LEU:HB2	1.31	0.93
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.51	0.93
2:H:10:ARG:HH11	2:H:10:ARG:HA	1.34	0.93
3:I:631:ILE:HD12	3:I:743:ASP:O	1.69	0.93
1:K:67:THR:HG21	2:M:609:ASN:HD21	1.31	0.93
2:M:80:GLN:HG3	2:M:90:TYR:CE2	2.02	0.93
3:I:142:LEU:HD23	3:I:146:PRO:HA	1.51	0.93
2:C:572:ILE:HD12	2:C:573:ARG:H	1.32	0.92
1:F:221:HIS:HE2	1:G:32:PHE:HE2	0.95	0.92
1:G:41:ARG:NH1	1:G:177:VAL:HG23	1.83	0.92
2:H:1011:GLY:HA3	2:H:1026:GLN:HG2	1.51	0.92
3:I:783:ARG:HH12	7:Y:41:ASP:HB3	1.31	0.92
2:M:325:ILE:H	2:M:325:ILE:HD12	1.32	0.92
2:M:836:GLY:HA3	2:M:1001:VAL:HG21	1.49	0.92
3:N:809:PRO:HB2	3:N:812:ALA:CB	1.97	0.92
3:I:486:ARG:HA	3:I:489:ARG:HG2	1.51	0.92
1:F:109:VAL:HG12	1:F:129:ILE:HD12	1.49	0.92
2:H:1046:ALA:HB1	3:I:1471:LEU:HD11	1.52	0.92
3:I:107:ASP:OD1	3:I:1444:THR:HG22	1.68	0.92
2:C:36:PRO:O	2:C:39:ARG:HG3	1.68	0.92
2:H:188:LYS:HB2	2:H:188:LYS:HZ2	1.14	0.92
2:H:432:ARG:NH2	3:I:1047:LYS:HD3	1.84	0.92
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.70	0.92
2:H:572:ILE:HD12	2:H:573:ARG:H	1.32	0.92
2:H:1106:ASP:OD1	3:I:7:LYS:CD	2.17	0.92
2:M:36:PRO:HA	2:M:39:ARG:HB2	1.52	0.92
3:N:87:ARG:O	3:N:521:PRO:HB3	1.69	0.92
7:Y:7:LEU:HD21	7:Y:72:ALA:HB1	1.51	0.92
2:C:565:GLN:NE2	2:C:842:ARG:HG2	1.85	0.92
3:D:127:LEU:HD23	3:D:134:VAL:HG13	1.52	0.92
1:F:112:ARG:HH21	1:F:125:PRO:HB2	1.35	0.92
1:G:80:LEU:HG	3:I:844:ALA:HA	1.52	0.92
3:I:1112:CYS:HB2	3:I:1195:GLN:HG2	1.51	0.92
3:I:1263:PHE:CE2	3:I:1371:VAL:HG11	2.03	0.92
3:N:481:MET:HE3	3:N:493:ARG:HA	1.51	0.92
2:H:1019:GLN:OE1	3:I:621:LYS:CG	2.17	0.92
3:I:28:LYS:O	3:I:43:GLY:HA2	1.69	0.92
3:I:41:ARG:CB	3:I:46:ASP:OD1	2.17	0.92
2:M:21:ILE:H	2:M:21:ILE:HD12	1.34	0.92
3:I:406:ASP:O	3:I:422:ALA:HB1	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:615:ARG:O	3:I:619:LEU:HG	1.69	0.92
2:M:129:ILE:HG12	2:M:134:ARG:HD3	1.52	0.92
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.52	0.92
2:C:879:ARG:NH2	7:X:42:ASP:CB	2.31	0.92
3:D:481:MET:HE3	3:D:493:ARG:HA	1.51	0.92
2:H:288:ARG:HH11	2:H:288:ARG:HB2	1.33	0.92
3:I:398:ALA:HB2	3:I:447:VAL:HA	1.51	0.92
2:M:48:PHE:CD1	2:M:348:LEU:HD21	2.05	0.92
3:N:1209:LEU:HD21	4:O:16:LYS:NZ	1.85	0.92
2:C:182:VAL:HG21	2:C:193:LEU:HB3	1.50	0.92
2:C:685:GLU:OE2	7:X:41:ASP:HB2	1.69	0.92
1:L:212:ASN:O	1:L:215:VAL:HG22	1.70	0.92
2:M:834:GLN:NE2	3:N:724:GLN:HG3	1.85	0.92
5:R:20:DG:H1	6:S:11:C:H42	0.94	0.92
2:C:834:GLN:HE22	3:D:724:GLN:HG3	1.34	0.91
2:H:181:VAL:HG12	2:H:182:VAL:N	1.84	0.91
2:H:1106:ASP:OD1	3:I:7:LYS:HD2	1.69	0.91
3:I:554:LEU:O	3:I:558:LEU:HG	1.70	0.91
3:I:908:LYS:HB2	3:I:1027:GLY:HA3	1.52	0.91
3:D:50:PHE:CG	3:D:522:PRO:HG2	2.04	0.91
2:H:40:GLU:HG3	2:H:41:ASN:H	1.35	0.91
2:H:861:LEU:HG	2:H:862:PRO:HD2	1.49	0.91
3:N:162:ARG:HB3	3:N:452:ILE:HG21	1.51	0.91
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.51	0.91
3:I:41:ARG:HB3	3:I:46:ASP:OD1	1.69	0.91
3:N:373:PRO:HA	3:N:376:GLU:OE2	1.70	0.91
3:D:158:TYR:O	3:D:162:ARG:HB2	1.71	0.91
2:H:1065:ALA:HB1	2:H:1077:PRO:HG2	1.51	0.91
2:H:1093:GLN:HB3	3:I:21:TRP:HZ3	1.33	0.91
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.49	0.91
3:N:997:THR:HG21	7:Z:61:ARG:NH2	1.85	0.91
7:Z:102:VAL:HG11	7:Z:125:MET:HE1	1.51	0.91
1:B:212:ASN:O	1:B:215:VAL:HG22	1.70	0.91
2:C:374:ASN:HD22	2:C:374:ASN:H	1.18	0.91
2:C:943:VAL:HG23	2:C:985:GLY:H	1.36	0.91
2:H:99:GLN:HE21	2:H:101:ILE:HD11	1.33	0.91
2:M:689:VAL:HB	2:M:870:ILE:HG12	1.49	0.91
2:H:943:VAL:HG23	2:H:985:GLY:H	1.36	0.91
3:I:141:ILE:HD13	3:I:142:LEU:N	1.85	0.91
3:I:654:LYS:HB3	3:I:655:PRO:HD3	1.49	0.91
2:M:6:PHE:CZ	2:M:901:TYR:CD2	2.55	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:50:PHE:CD1	3:N:522:PRO:HG2	2.04	0.91
1:G:212:ASN:O	1:G:215:VAL:HG22	1.70	0.91
2:H:200:LEU:HD13	2:H:300:ASP:CG	1.95	0.91
2:H:1086:ARG:CZ	3:I:88:TYR:HE2	1.70	0.91
3:I:12:LEU:CD2	3:I:104:PHE:HE1	1.84	0.91
3:I:1412:LYS:O	3:I:1414:PRO:HD3	1.69	0.91
1:K:112:ARG:HH21	1:K:125:PRO:HB2	1.35	0.91
1:B:187:GLY:O	3:D:688:TRP:HD1	1.54	0.91
2:C:564:MET:HE1	2:C:846:LYS:CE	2.01	0.91
3:D:28:LYS:O	3:D:43:GLY:CA	2.19	0.91
3:D:139:GLY:O	3:D:147:VAL:CG1	2.18	0.91
3:D:134:VAL:O	3:D:454:ALA:HB1	1.70	0.91
1:F:218:LEU:HD23	1:G:222:LEU:HD21	1.52	0.91
2:H:834:GLN:HE22	3:I:724:GLN:HG3	1.34	0.91
3:I:615:ARG:HG3	3:I:619:LEU:HG	1.53	0.91
3:I:1111:ASP:OD1	3:I:1203:LYS:HD2	1.70	0.91
1:L:165:ILE:H	1:L:165:ILE:HD13	1.36	0.91
2:C:879:ARG:CZ	7:X:42:ASP:CG	2.44	0.91
2:H:1075:ASP:OD1	4:J:31:LEU:HD11	1.71	0.91
3:I:12:LEU:HD21	3:I:104:PHE:HE1	1.02	0.91
3:N:783:ARG:HH11	7:Z:41:ASP:HB2	0.75	0.91
2:C:958:THR:HG23	2:C:961:GLU:HG3	1.52	0.90
1:F:36:LEU:O	1:F:39:PRO:HD2	1.71	0.90
2:H:21:ILE:H	2:H:21:ILE:CD1	1.82	0.90
2:H:958:THR:HG23	2:H:961:GLU:HG3	1.51	0.90
1:A:36:LEU:O	1:A:39:PRO:HD2	1.71	0.90
2:C:316:GLY:C	2:C:318:PRO:HD3	1.96	0.90
3:I:764:LEU:HD12	3:I:765:SER:H	1.36	0.90
2:M:242:LEU:HD11	2:M:254:VAL:HG11	1.52	0.90
3:D:1258:ARG:NH1	3:D:1262:LEU:HD13	1.85	0.90
2:H:1030:GLN:NE2	3:I:628:ARG:CD	2.34	0.90
3:I:1257:PRO:HA	3:I:1260:ILE:HD12	1.54	0.90
3:N:168:THR:HG22	3:N:170:PRO:HD3	1.53	0.90
2:H:1083:GLU:OE2	2:H:1086:ARG:HD2	1.71	0.90
3:I:481:MET:HE3	3:I:493:ARG:HA	1.51	0.90
3:N:86:ARG:CZ	3:N:523:ASP:OD1	2.19	0.90
3:N:486:ARG:HA	3:N:489:ARG:HG2	1.51	0.90
7:X:81:GLU:O	7:X:154:ILE:HD12	1.69	0.90
3:D:683:ILE:HD13	3:D:687:VAL:HG21	1.52	0.90
2:H:129:ILE:HG12	2:H:386:PHE:HB3	1.53	0.90
2:H:140:ILE:HD11	2:H:412:ALA:HA	1.54	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:221:LEU:HD12	2:C:222:MET:N	1.86	0.90
2:C:854:PRO:HB2	2:C:856:GLU:HG3	1.54	0.90
2:C:1083:GLU:OE2	2:C:1086:ARG:HD2	1.71	0.90
3:D:1286:THR:HG22	3:D:1287:GLU:H	1.36	0.90
1:K:36:LEU:O	1:K:39:PRO:HD2	1.71	0.90
3:N:137:PRO:HD3	3:N:453:ASP:HB2	1.53	0.90
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.70	0.90
3:D:1114:THR:CG2	3:D:1195:GLN:HB3	2.02	0.90
3:I:970:LYS:HZ3	7:Y:113:LEU:HD23	1.35	0.90
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.06	0.90
3:D:50:PHE:CG	3:D:522:PRO:CG	2.54	0.90
1:G:41:ARG:HG3	1:G:177:VAL:HG21	1.53	0.90
1:G:67:THR:OG1	1:L:159:LYS:HG3	1.72	0.90
2:M:1083:GLU:OE2	2:M:1086:ARG:HD2	1.71	0.90
3:D:127:LEU:O	3:D:457:GLY:CA	2.16	0.90
2:H:292:ARG:HG2	2:H:299:LYS:HB3	1.51	0.90
2:H:676:ILE:HG21	2:H:988:VAL:HG13	1.53	0.90
2:M:943:VAL:HG23	2:M:985:GLY:H	1.36	0.90
1:A:67:THR:HG21	2:C:609:ASN:ND2	1.87	0.90
3:I:482:LYS:HE2	3:I:1388:ARG:NH2	1.87	0.90
2:M:188:LYS:NZ	2:M:188:LYS:CB	2.35	0.90
1:B:74:ASP:CB	3:D:872:ARG:HH22	1.85	0.89
2:H:54:ILE:HG22	2:H:66:LEU:H	1.37	0.89
3:I:87:ARG:CG	3:I:523:ASP:HB2	2.01	0.89
3:I:181:ASP:HA	3:I:205:TYR:CD2	2.06	0.89
3:I:1254:GLN:HG2	3:I:1255:GLY:N	1.75	0.89
2:M:111:ASP:OD2	2:M:369:PRO:CB	2.19	0.89
2:M:1030:GLN:NE2	3:N:628:ARG:CD	2.34	0.89
2:C:208:ALA:CB	2:C:222:MET:SD	2.60	0.89
2:C:1097:LEU:CD1	3:D:1451:ALA:HB2	2.03	0.89
3:D:102:ILE:HB	3:D:579:ASP:OD1	1.72	0.89
3:D:1123:PHE:CE2	3:D:1184:GLN:HA	2.08	0.89
3:I:204:LEU:O	3:I:393:ILE:HA	1.72	0.89
1:L:228:PRO:O	1:L:229:GLN:HG3	1.72	0.89
3:N:764:LEU:HD12	3:N:765:SER:H	1.36	0.89
3:D:153:LEU:CD1	3:D:158:TYR:HB2	2.02	0.89
3:D:982:PHE:CE1	7:X:100:LEU:HD21	2.07	0.89
2:H:182:VAL:CG1	2:H:193:LEU:CD1	2.49	0.89
2:H:878:SER:CA	3:I:1034:GLN:HE22	1.84	0.89
2:M:854:PRO:HB2	2:M:856:GLU:HG3	1.54	0.89
2:M:1099:VAL:HG22	3:N:10:ILE:CG1	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:878:SER:HA	3:I:1034:GLN:NE2	1.87	0.89
3:I:774:SER:HB3	3:I:1362:LYS:O	1.72	0.89
2:M:564:MET:SD	2:M:846:LYS:HD2	2.13	0.89
2:M:958:THR:HG23	2:M:961:GLU:HG3	1.52	0.89
3:N:28:LYS:O	3:N:43:GLY:CA	2.19	0.89
1:B:187:GLY:CA	3:D:685:ASP:CB	2.46	0.89
3:D:1263:PHE:HE2	3:D:1371:VAL:HG11	1.38	0.89
2:H:576:ALA:HB3	2:H:900:ARG:HH11	1.33	0.89
2:H:601:GLY:HA2	2:H:616:GLU:HG2	1.55	0.89
2:H:1019:GLN:OE1	3:I:621:LYS:CD	2.19	0.89
2:C:193:LEU:HD21	2:C:307:LEU:CD2	1.99	0.89
2:C:455:LEU:HD13	2:C:459:ALA:HB3	1.54	0.89
3:I:131:LYS:HG3	3:I:568:ARG:NE	1.85	0.89
3:I:154:THR:HG23	3:I:157:GLU:HB2	1.54	0.89
3:I:615:ARG:CD	3:I:619:LEU:HD21	2.02	0.89
2:M:140:ILE:HD11	2:M:331:ARG:HH21	1.34	0.89
2:M:1085:PHE:CE2	3:N:1468:LEU:HG	2.07	0.89
1:B:56:VAL:HG22	1:B:142:VAL:HG12	1.55	0.89
2:C:185:LYS:HD2	2:C:190:LYS:CG	2.02	0.89
3:D:124:GLU:CG	3:D:128:TYR:CE1	2.56	0.89
3:D:139:GLY:O	3:D:147:VAL:CB	2.21	0.89
2:C:1093:GLN:HB3	3:D:21:TRP:HZ3	1.36	0.89
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.50	0.89
2:H:195:LEU:O	2:H:199:VAL:HG23	1.72	0.89
3:I:1256:LEU:HB3	3:I:1257:PRO:HD3	1.55	0.89
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.55	0.89
2:M:654:LEU:HD23	2:M:654:LEU:H	1.38	0.89
4:O:18:ARG:HB2	4:O:18:ARG:HH21	1.37	0.89
1:B:41:ARG:NH1	1:B:177:VAL:HG23	1.88	0.89
3:D:387:LEU:H	3:D:387:LEU:HD12	1.38	0.89
2:M:697:ARG:HD2	2:M:699:PHE:CD1	2.08	0.89
3:N:81:THR:CG2	3:N:82:LYS:N	2.30	0.89
3:N:1468:LEU:HD13	3:N:1470:ARG:HE	1.35	0.89
2:C:215:GLY:O	2:C:216:GLU:HB3	1.72	0.89
2:C:911:GLU:OE1	3:D:951:ILE:CD1	2.19	0.89
1:G:76:VAL:CB	3:I:872:ARG:NH1	2.35	0.89
3:I:408:GLU:CG	3:I:409:VAL:H	1.85	0.89
2:M:794:PRO:HD2	2:M:1024:LYS:O	1.72	0.89
1:A:112:ARG:HH21	1:A:125:PRO:HB2	1.35	0.88
1:B:54:THR:O	1:B:167:VAL:HG23	1.73	0.88
3:I:1397:LYS:HZ1	3:I:1432:LYS:HZ2	1.20	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:356:PRO:HG2	3:N:359:ALA:HB2	1.55	0.88
1:A:42:ARG:HH12	1:B:34:VAL:CB	1.86	0.88
1:A:42:ARG:NH1	1:B:34:VAL:CG1	2.35	0.88
2:M:368:THR:O	2:M:372:LEU:HD12	1.72	0.88
3:D:764:LEU:HD12	3:D:765:SER:H	1.35	0.88
3:D:1066:THR:HG22	3:D:1069:GLU:HB2	1.55	0.88
3:I:1292:VAL:HG11	3:I:1325:LEU:HG	1.54	0.88
2:C:642:ARG:O	2:C:642:ARG:HD3	1.74	0.88
2:H:455:LEU:HD13	2:H:459:ALA:HB3	1.54	0.88
1:L:74:ASP:CB	3:N:872:ARG:HH22	1.86	0.88
2:M:457:ALA:HB3	2:M:538:GLN:HA	1.56	0.88
3:N:44:LEU:O	3:N:50:PHE:CE1	2.27	0.88
3:N:868:TYR:CD1	3:N:869:MET:HG3	2.09	0.88
3:N:1031:ASN:ND2	7:Z:32:ILE:HG23	1.88	0.88
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.55	0.88
4:J:54:LEU:HG	4:J:58:PRO:HG2	1.55	0.88
2:M:69:LEU:HD11	2:M:99:GLN:HG2	1.56	0.88
2:M:455:LEU:HD13	2:M:459:ALA:HB3	1.54	0.88
3:N:15:PRO:CB	3:N:515:GLU:OE1	2.21	0.88
2:C:265:ARG:H	2:C:289:THR:HG21	1.36	0.88
3:D:145:VAL:HG22	3:D:146:PRO:CD	2.03	0.88
3:D:164:GLY:HA3	3:D:449:SER:HB3	1.54	0.88
2:H:642:ARG:O	2:H:642:ARG:HD3	1.74	0.88
3:N:1266:ARG:O	3:N:1268:PRO:HD3	1.73	0.88
2:C:1081:VAL:CG2	2:C:1111:ILE:HG22	2.04	0.88
2:H:98:LEU:HD12	2:H:98:LEU:N	1.89	0.88
2:C:198:ARG:HD3	2:C:228:ALA:HA	1.56	0.88
3:D:142:LEU:HB3	3:D:145:VAL:O	1.73	0.88
3:D:868:TYR:CD1	3:D:869:MET:HG3	2.09	0.88
2:H:73:LEU:HD22	2:H:118:ILE:HD11	1.56	0.88
2:H:457:ALA:HB3	2:H:538:GLN:HA	1.56	0.88
2:M:113:VAL:HG21	2:M:373:VAL:HG11	1.56	0.88
1:B:228:PRO:O	1:B:229:GLN:HG3	1.72	0.88
2:M:100:LEU:O	2:M:108:ILE:HG23	1.73	0.88
1:B:75:VAL:O	1:B:79:ILE:HG23	1.74	0.88
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.04	0.88
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.56	0.88
1:G:165:ILE:H	1:G:165:ILE:HD13	1.37	0.87
3:I:982:PHE:CD1	7:Y:125:MET:SD	2.66	0.87
2:H:21:ILE:HD12	2:H:21:ILE:N	1.88	0.87
2:H:654:LEU:HD23	2:H:654:LEU:H	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:661:MET:O	3:I:664:LYS:O	1.92	0.87
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.55	0.87
2:H:469:THR:HG23	2:H:470:PRO:HD2	1.56	0.87
3:I:13:ALA:HB1	3:I:18:ILE:HD11	1.56	0.87
2:M:174:LEU:HD22	2:M:193:LEU:HD21	1.56	0.87
2:M:282:GLY:O	2:M:283:ILE:HG12	1.73	0.87
2:C:21:ILE:H	2:C:21:ILE:HD12	1.40	0.87
3:D:152:LEU:HD23	3:D:152:LEU:H	1.40	0.87
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.73	0.87
2:H:854:PRO:HB2	2:H:856:GLU:HG3	1.54	0.87
2:M:165:LEU:HG	2:M:166:PRO:HA	1.56	0.87
2:C:185:LYS:HG3	2:C:190:LYS:HB3	1.56	0.87
3:D:661:MET:O	3:D:664:LYS:O	1.92	0.87
3:I:41:ARG:CA	3:I:46:ASP:OD1	2.22	0.87
2:M:129:ILE:HG12	2:M:134:ARG:CD	2.04	0.87
3:N:166:GLN:HG2	3:N:396:VAL:HG12	1.53	0.87
3:N:675:ARG:O	3:N:679:ARG:CB	2.21	0.87
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.75	0.87
3:D:89:ARG:O	3:D:521:PRO:HG3	1.75	0.87
3:D:166:GLN:HE22	3:D:394:LEU:HB2	1.37	0.87
3:D:206:ARG:HD3	3:D:394:LEU:HD21	1.56	0.87
3:D:706:PRO:HD3	6:Q:16:G:H21	1.39	0.87
2:H:182:VAL:HG12	2:H:193:LEU:CD1	2.05	0.87
3:I:119:SER:CB	3:I:123:LEU:HB2	2.05	0.87
3:I:1066:THR:HG22	3:I:1069:GLU:HB2	1.56	0.87
3:N:661:MET:O	3:N:664:LYS:O	1.92	0.87
2:C:208:ALA:HB2	2:C:222:MET:SD	2.15	0.87
3:D:157:GLU:O	3:D:161:LEU:HD13	1.74	0.87
3:D:353:VAL:HA	3:D:368:VAL:HG22	1.54	0.87
2:H:15:LEU:H	2:H:15:LEU:HD12	1.39	0.87
2:H:1085:PHE:CE2	3:I:1468:LEU:HG	2.09	0.87
2:M:642:ARG:O	2:M:642:ARG:HD3	1.74	0.87
4:O:54:LEU:HD23	4:O:58:PRO:HD2	1.56	0.87
7:X:24:GLU:HA	7:X:27:GLN:NE2	1.89	0.87
2:C:170:PRO:HG2	2:C:258:TYR:CD1	2.10	0.87
1:F:91:ASN:OD1	1:F:92:PRO:HD2	1.75	0.87
1:F:156:HIS:HD2	1:F:157:GLY:H	1.23	0.87
3:I:115:LEU:HD12	3:I:502:PHE:HE1	1.40	0.87
3:I:606:ILE:O	3:I:613:ARG:HG2	1.73	0.87
3:I:868:TYR:CD1	3:I:869:MET:HG3	2.09	0.87
3:I:1266:ARG:O	3:I:1268:PRO:HD3	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:91:ASN:OD1	1:K:92:PRO:HD2	1.75	0.87
2:M:235:LEU:HD11	2:M:298:PHE:HZ	1.39	0.87
2:M:399:ASN:HD22	2:M:568:ALA:HB3	1.39	0.87
3:N:970:LYS:NZ	7:Z:113:LEU:CB	2.34	0.87
7:X:59:GLU:O	7:X:62:ILE:HG22	1.74	0.87
1:B:74:ASP:HB2	3:D:872:ARG:NH2	1.89	0.87
2:C:113:VAL:O	2:C:115:LEU:HD23	1.73	0.87
2:C:276:LYS:HA	2:C:280:LYS:HD2	1.56	0.87
2:H:69:LEU:HD12	2:H:97:ARG:HB3	1.56	0.87
2:H:1014:SER:HB2	2:H:1021:LEU:HD13	1.56	0.87
1:F:54:THR:HG22	1:F:158:ILE:CD1	2.05	0.86
2:H:185:LYS:HD2	2:H:190:LYS:CG	2.03	0.86
2:H:1081:VAL:HG21	2:H:1111:ILE:CG2	2.05	0.86
1:L:76:VAL:HB	3:N:872:ARG:HH12	1.38	0.86
3:N:1066:THR:HG22	3:N:1069:GLU:HB2	1.56	0.86
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.56	0.86
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.56	0.86
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.04	0.86
2:C:182:VAL:HG11	2:C:193:LEU:HD22	1.54	0.86
2:C:878:SER:OG	3:D:1029:ARG:NE	2.07	0.86
3:I:131:LYS:HB2	3:I:568:ARG:NE	1.90	0.86
3:I:141:ILE:HD13	3:I:142:LEU:H	1.39	0.86
2:M:564:MET:CE	2:M:846:LYS:CE	2.53	0.86
2:M:831:ARG:HD2	2:M:1000:MET:SD	2.15	0.86
3:D:186:VAL:HA	3:D:200:ASP:OD1	1.74	0.86
3:I:991:GLN:NE2	7:Y:112:VAL:HG23	1.88	0.86
2:M:88:LEU:HD22	2:M:814:GLU:HG2	1.57	0.86
2:M:172:ILE:N	2:M:172:ILE:HD12	1.90	0.86
3:N:50:PHE:CE2	3:N:522:PRO:HD3	2.08	0.86
1:A:54:THR:HG22	1:A:158:ILE:CD1	2.05	0.86
2:C:654:LEU:HD23	2:C:654:LEU:H	1.38	0.86
3:N:676:MET:O	3:N:680:GLN:CB	2.24	0.86
3:N:1384:PRO:HG3	3:N:1389:LEU:HB3	1.57	0.86
2:C:408:ARG:HH21	2:C:455:LEU:CD1	1.88	0.86
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.01	0.86
2:H:18:LEU:HD13	2:H:590:ASP:OD2	1.75	0.86
2:M:1105:LYS:NZ	2:M:1107:ASN:HB2	1.90	0.86
3:N:135:LEU:HD13	3:N:148:GLU:O	1.75	0.86
3:N:203:ALA:HB1	3:N:393:ILE:HG21	1.57	0.86
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.58	0.86
2:H:182:VAL:C	2:H:193:LEU:HD11	1.99	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:23:TYR:O	3:I:49:ILE:HG23	1.75	0.86
3:I:202:VAL:O	3:I:395:VAL:HA	1.75	0.86
3:I:421:LEU:HD22	3:I:444:VAL:HG11	1.58	0.86
3:I:1263:PHE:HE2	3:I:1371:VAL:HG11	1.38	0.86
3:N:625:TYR:HB3	3:N:749:VAL:HG23	1.56	0.86
3:N:1263:PHE:HE2	3:N:1371:VAL:HG11	1.38	0.86
3:I:813:LEU:O	3:I:817:GLU:HB2	1.76	0.86
1:K:54:THR:HG22	1:K:158:ILE:CD1	2.05	0.86
2:M:1088:LEU:HD23	2:M:1092:LEU:HD12	1.56	0.86
2:C:831:ARG:HD2	2:C:1000:MET:SD	2.15	0.86
2:C:879:ARG:NH2	7:X:42:ASP:HB2	1.90	0.86
2:H:879:ARG:NH2	7:Y:42:ASP:HB2	1.90	0.86
3:I:127:LEU:HD12	3:I:127:LEU:O	1.76	0.86
3:I:181:ASP:HA	3:I:205:TYR:HD2	1.39	0.86
2:M:569:VAL:HG12	2:M:996:LYS:O	1.76	0.86
1:A:42:ARG:HH12	1:B:34:VAL:HB	1.38	0.85
1:A:156:HIS:HD2	1:A:157:GLY:H	1.23	0.85
2:C:473:ARG:HB2	2:C:531:PHE:CE1	2.11	0.85
2:C:979:THR:HG23	2:C:981:GLU:H	1.41	0.85
3:D:1102:THR:HA	3:D:1105:ILE:HD13	1.58	0.85
3:I:1211:MET:HG2	3:I:1212:ALA:N	1.91	0.85
3:N:1288:GLU:O	3:N:1289:LYS:HG3	1.76	0.85
3:N:1359:GLN:HE22	7:Z:52:LYS:HD3	1.41	0.85
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.56	0.85
1:G:112:ARG:CG	1:G:125:PRO:HB3	2.06	0.85
2:H:1097:LEU:CD1	3:I:1451:ALA:HB2	2.06	0.85
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.56	0.85
3:N:119:SER:CB	3:N:123:LEU:HB2	2.05	0.85
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.75	0.85
2:C:1088:LEU:HD23	2:C:1092:LEU:HD12	1.56	0.85
2:H:1105:LYS:NZ	2:H:1107:ASN:HB2	1.90	0.85
2:M:64:LEU:HD22	2:M:359:MET:HB2	1.54	0.85
2:M:157:ARG:HH12	2:M:217:LEU:HD22	1.41	0.85
2:M:184:MET:SD	2:M:303:PHE:HE2	2.00	0.85
2:M:1046:ALA:HA	3:N:1472:ILE:HD11	1.58	0.85
3:N:764:LEU:HD12	3:N:765:SER:N	1.91	0.85
3:D:1211:MET:HG2	3:D:1212:ALA:N	1.91	0.85
2:H:181:VAL:CG1	2:H:182:VAL:H	1.86	0.85
4:J:54:LEU:HD23	4:J:58:PRO:HD2	1.58	0.85
2:M:31:GLN:HG3	2:M:34:VAL:HG22	1.57	0.85
2:M:987:ILE:HG23	3:N:948:THR:CG2	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.59	0.85
2:C:1105:LYS:NZ	2:C:1107:ASN:HB2	1.90	0.85
1:G:62:LEU:HD12	1:G:63:HIS:H	1.42	0.85
3:I:182:GLY:HA3	3:I:441:ARG:HH11	1.41	0.85
2:M:188:LYS:HG3	2:M:188:LYS:O	1.73	0.85
1:A:73:GLU:HB2	1:A:78:ILE:HD11	1.57	0.85
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.57	0.85
2:H:265:ARG:HG2	2:H:267:TYR:CG	2.10	0.85
2:H:1088:LEU:HD23	2:H:1092:LEU:HD12	1.56	0.85
3:I:611:GLN:NE2	6:S:9:U:H4'	1.92	0.85
3:D:50:PHE:HD2	3:D:522:PRO:HD3	1.40	0.85
3:D:355:VAL:HG11	3:D:385:VAL:HG21	1.57	0.85
3:D:1133:ARG:HH12	7:X:23:ARG:HH12	1.24	0.85
2:H:408:ARG:HH21	2:H:455:LEU:HD11	1.39	0.85
2:M:408:ARG:HH21	2:M:455:LEU:HD11	1.39	0.85
2:M:979:THR:HG23	2:M:981:GLU:H	1.41	0.85
3:N:1211:MET:HG2	3:N:1212:ALA:N	1.91	0.85
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.55	0.85
4:E:25:LYS:HA	4:E:28:GLN:NE2	1.92	0.85
3:I:131:LYS:CG	3:I:568:ARG:NE	2.39	0.85
3:I:764:LEU:HD12	3:I:765:SER:N	1.91	0.85
3:I:771:SER:HB2	3:I:778:LEU:HD13	1.59	0.85
3:I:1122:LEU:HD11	3:I:1186:VAL:HG23	1.58	0.85
2:M:958:THR:HG23	2:M:961:GLU:CG	2.07	0.85
3:D:172:PRO:CG	3:D:175:VAL:HG21	2.07	0.85
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.11	0.85
2:H:342:ASP:O	2:H:345:ARG:HG2	1.77	0.85
3:I:813:LEU:HD12	3:I:814:ALA:N	1.92	0.85
3:I:1468:LEU:HD22	3:I:1470:ARG:HB2	1.57	0.85
1:K:156:HIS:HD2	1:K:157:GLY:H	1.23	0.85
2:M:317:VAL:CG1	2:M:320:HIS:NE2	2.39	0.85
3:N:813:LEU:O	3:N:817:GLU:HB2	1.77	0.85
3:N:1031:ASN:HD21	7:Z:32:ILE:CG2	1.90	0.85
2:C:170:PRO:CD	2:C:263:ASP:HB3	2.07	0.85
2:C:1056:LYS:HD3	3:D:623:VAL:CG1	2.07	0.85
3:D:139:GLY:CA	3:D:162:ARG:HH22	1.85	0.85
3:I:483:HIS:HB2	3:I:484:PRO:HD3	1.59	0.85
3:N:87:ARG:O	3:N:521:PRO:CB	2.24	0.85
2:C:676:ILE:HG21	2:C:988:VAL:HG13	1.58	0.84
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.58	0.84
3:N:1037:GLN:HG2	3:N:1042:ARG:HB3	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:170:PRO:HD2	2:C:263:ASP:HB3	1.59	0.84
2:C:958:THR:HG23	2:C:961:GLU:CG	2.07	0.84
3:D:157:GLU:O	3:D:161:LEU:HD11	1.76	0.84
2:H:242:LEU:O	2:H:243:ARG:HG3	1.77	0.84
2:H:678:PRO:HG2	3:I:947:ILE:HD11	1.58	0.84
3:I:810:GLU:O	3:I:813:LEU:HG	1.77	0.84
2:M:78:PHE:HB3	2:M:79:PRO:HD2	1.58	0.84
2:M:305:PRO:HA	2:M:308:ARG:HB3	1.58	0.84
2:M:399:ASN:ND2	2:M:568:ALA:HB3	1.93	0.84
2:M:564:MET:CE	2:M:846:LYS:CD	2.55	0.84
1:A:39:PRO:HG3	1:B:39:PRO:CG	2.08	0.84
2:H:197:LEU:HD13	2:H:207:LEU:HD11	1.58	0.84
2:H:383:ARG:HB2	2:H:383:ARG:HH11	1.41	0.84
2:H:572:ILE:HD12	2:H:573:ARG:N	1.92	0.84
3:I:465:LEU:HD13	3:I:510:GLU:HA	1.59	0.84
3:I:1288:GLU:O	3:I:1289:LYS:HG3	1.76	0.84
1:L:27:PRO:O	1:L:28:LEU:HD23	1.76	0.84
2:M:383:ARG:HB2	2:M:383:ARG:HH11	1.42	0.84
3:N:169:TYR:OH	3:N:198:ARG:HG3	1.76	0.84
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.58	0.84
1:B:187:GLY:HA3	3:D:685:ASP:HB2	1.58	0.84
2:C:305:PRO:HG3	2:C:308:ARG:NH2	1.91	0.84
3:D:764:LEU:HD12	3:D:765:SER:N	1.91	0.84
2:H:571:LEU:HD11	2:H:701:THR:N	1.92	0.84
2:H:979:THR:HG23	2:H:981:GLU:H	1.41	0.84
3:I:1037:GLN:HG2	3:I:1042:ARG:HB3	1.59	0.84
3:I:1209:LEU:HD21	4:J:16:LYS:NZ	1.90	0.84
2:M:139:GLN:OE1	2:M:418:LEU:HD22	1.77	0.84
2:C:304:LEU:CD2	2:C:305:PRO:HD3	2.06	0.84
3:D:160:GLU:OE2	3:D:397:LYS:HD2	1.78	0.84
3:D:174:GLY:H	3:D:209:ARG:NH1	1.76	0.84
1:G:27:PRO:O	1:G:28:LEU:HD23	1.76	0.84
3:I:643:GLY:HA3	3:I:727:GLN:HB2	1.57	0.84
1:K:42:ARG:HH12	1:L:34:VAL:CB	1.89	0.84
2:M:503:LEU:HD23	2:M:507:ARG:O	1.76	0.84
2:M:576:ALA:HB3	2:M:900:ARG:NH1	1.92	0.84
4:O:6:ILE:HD11	4:O:10:PHE:CZ	2.12	0.84
2:C:198:ARG:NH1	2:C:228:ALA:O	2.10	0.84
2:H:245:GLY:O	2:H:246:ASP:OD1	1.93	0.84
3:I:554:LEU:HD11	3:I:558:LEU:HD21	1.58	0.84
2:M:316:GLY:C	2:M:318:PRO:HD3	2.02	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:31:THR:CG2	3:D:545:ARG:HD3	2.08	0.84
3:D:771:SER:HB2	3:D:778:LEU:HD13	1.59	0.84
3:D:813:LEU:HD12	3:D:814:ALA:N	1.92	0.84
3:I:108:VAL:HB	3:I:109:PRO:HD3	1.58	0.84
3:I:1114:THR:CG2	3:I:1195:GLN:HB3	2.08	0.84
3:N:1103:HIS:HD2	3:N:1463:LYS:HB2	1.41	0.84
1:A:153:ALA:HA	1:A:156:HIS:NE2	1.93	0.84
2:C:1098:ASP:HB3	3:D:11:ALA:O	1.76	0.84
3:D:96:ALA:HB3	3:D:554:LEU:HD23	1.59	0.84
1:G:88:ARG:NH1	1:G:123:MET:HE1	1.93	0.84
2:H:395:LYS:O	2:H:397:GLU:HG3	1.78	0.84
2:H:958:THR:HG23	2:H:961:GLU:CG	2.07	0.84
3:I:809:PRO:HB2	3:I:812:ALA:CB	2.08	0.84
3:D:813:LEU:O	3:D:817:GLU:HB2	1.77	0.84
3:D:987:GLU:OE1	7:X:120:SER:HB2	1.78	0.84
2:H:182:VAL:CG1	2:H:193:LEU:CG	2.56	0.84
2:H:261:ILE:CD1	2:H:262:ALA:H	1.90	0.84
3:I:14:SER:O	3:I:18:ILE:HG12	1.76	0.84
2:M:84:ARG:NE	2:M:133:ASP:CG	2.31	0.84
2:M:1089:VAL:O	2:M:1093:GLN:HG2	1.78	0.84
3:N:465:LEU:HD13	3:N:510:GLU:HA	1.59	0.84
7:X:111:ASN:OD1	7:X:113:LEU:HD12	1.76	0.84
1:F:221:HIS:NE2	1:G:32:PHE:CE2	2.46	0.84
2:H:218:VAL:HG13	2:H:221:LEU:HD11	1.57	0.84
2:H:950:LEU:HB3	2:H:952:LEU:HD23	1.57	0.84
3:I:142:LEU:CB	3:I:145:VAL:O	2.24	0.84
1:K:25:LEU:CD2	1:L:225:PHE:CE2	2.61	0.84
2:M:334:ARG:HH21	2:M:339:LEU:HD23	1.42	0.84
2:M:675:ALA:CA	2:M:989:VAL:HG12	2.07	0.84
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.58	0.84
3:N:813:LEU:HD12	3:N:814:ALA:N	1.92	0.84
3:D:181:ASP:HA	3:D:205:TYR:CD2	2.13	0.83
3:D:465:LEU:HD13	3:D:510:GLU:HA	1.59	0.83
2:M:1005:MET:SD	3:N:724:GLN:OE1	2.36	0.83
3:N:956:ILE:HD11	3:N:1062:ARG:CB	2.08	0.83
3:N:1029:ARG:CB	3:N:1029:ARG:HH11	1.90	0.83
2:C:501:THR:HG22	2:C:513:VAL:HG13	1.61	0.83
1:F:153:ALA:HA	1:F:156:HIS:NE2	1.93	0.83
3:I:28:LYS:CD	3:I:29:PRO:HD2	2.08	0.83
1:B:27:PRO:O	1:B:28:LEU:HD23	1.76	0.83
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1052:MET:SD	3:I:623:VAL:CG1	2.66	0.83
3:I:1209:LEU:HD21	4:J:16:LYS:CE	2.07	0.83
3:I:1359:GLN:HE22	7:Y:52:LYS:HD3	1.43	0.83
1:L:41:ARG:HG3	1:L:177:VAL:CG2	2.07	0.83
3:N:949:ILE:HD11	3:N:1023:MET:HE1	1.59	0.83
3:D:810:GLU:O	3:D:813:LEU:HG	1.77	0.83
2:H:572:ILE:HG23	2:H:703:ILE:HD11	1.60	0.83
2:H:831:ARG:HD2	2:H:1000:MET:SD	2.19	0.83
3:I:101:HIS:HD1	3:I:103:TRP:HB2	1.42	0.83
3:I:1235:GLN:NE2	7:Y:37:MET:HG3	1.93	0.83
2:M:111:ASP:HB3	2:M:369:PRO:CG	2.07	0.83
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.59	0.83
3:N:984:THR:HG22	3:N:987:GLU:CG	2.08	0.83
3:N:1359:GLN:O	7:Z:37:MET:SD	2.36	0.83
7:Z:111:ASN:OD1	7:Z:113:LEU:HD12	1.76	0.83
2:C:122:THR:HB	2:C:124:ASP:OD1	1.78	0.83
2:C:557:ARG:NH1	2:C:560:MET:HG3	1.93	0.83
2:C:1085:PHE:HE2	3:D:1468:LEU:HG	1.44	0.83
3:D:153:LEU:HD13	3:D:158:TYR:HB2	1.60	0.83
3:D:1387:SER:HB3	3:D:1391:GLU:OE2	1.77	0.83
2:H:557:ARG:NH1	2:H:560:MET:HG3	1.93	0.83
3:I:160:GLU:HG2	3:I:165:LYS:CG	2.08	0.83
3:I:997:THR:HG21	7:Y:61:ARG:CZ	2.09	0.83
2:M:368:THR:HB	2:M:369:PRO:HD2	1.60	0.83
3:D:166:GLN:HB3	2:H:210:GLU:HG3	1.60	0.83
1:F:42:ARG:HH12	1:G:34:VAL:CB	1.90	0.83
3:I:1025:GLN:HA	3:I:1025:GLN:HE21	1.43	0.83
3:I:1256:LEU:O	3:I:1260:ILE:HG13	1.79	0.83
1:L:86:VAL:CG1	1:L:124:ASN:HB2	2.08	0.83
3:N:421:LEU:HD22	3:N:444:VAL:HG11	1.58	0.83
3:N:581:LEU:HD23	3:N:581:LEU:H	1.43	0.83
1:B:44:LEU:HA	1:B:48:ILE:HD13	1.61	0.83
2:C:195:LEU:O	2:C:199:VAL:HG23	1.79	0.83
2:C:572:ILE:HD12	2:C:573:ARG:N	1.92	0.83
2:C:1004:LYS:HD2	3:D:744:GLN:HE22	1.04	0.83
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.61	0.83
3:I:142:LEU:HB3	3:I:145:VAL:C	2.02	0.83
3:N:1007:VAL:HG11	3:N:1039:CYS:HB2	1.59	0.83
3:D:207:PHE:O	3:D:390:PRO:HA	1.79	0.83
2:H:193:LEU:CD1	2:H:193:LEU:N	2.30	0.83
2:H:196:LEU:O	2:H:200:LEU:HG	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:991:GLN:HE22	7:Y:112:VAL:CB	1.91	0.83
1:L:133:GLU:HG3	1:L:134:GLU:H	1.40	0.83
2:H:170:PRO:HD3	2:H:263:ASP:CB	2.08	0.83
2:H:182:VAL:CB	2:H:193:LEU:HD11	2.08	0.83
2:H:258:TYR:CE2	2:H:290:LEU:HD11	2.14	0.83
2:M:172:ILE:HD12	2:M:172:ILE:H	1.43	0.83
2:M:557:ARG:NH1	2:M:560:MET:HG3	1.94	0.83
2:M:572:ILE:HD12	2:M:573:ARG:N	1.92	0.83
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.60	0.83
3:N:810:GLU:O	3:N:813:LEU:HG	1.77	0.83
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.44	0.83
2:C:1099:VAL:CG2	3:D:10:ILE:HG12	2.09	0.83
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.59	0.83
1:G:185:ARG:HD3	3:I:692:GLU:OE2	1.79	0.83
2:H:502:PRO:HB2	2:H:509:ALA:HB3	1.59	0.83
2:M:69:LEU:HD11	2:M:99:GLN:CG	2.09	0.83
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.61	0.83
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.44	0.83
7:Y:57:ARG:HB2	7:Y:57:ARG:NH2	1.94	0.83
7:Z:115:THR:HB	7:Z:116:PRO:HD3	1.60	0.83
3:D:481:MET:SD	3:D:1388:ARG:HD3	2.19	0.82
3:D:1099:VAL:O	3:D:1103:HIS:HB3	1.78	0.82
3:I:432:TYR:HB3	3:I:450:TYR:HB2	1.59	0.82
3:N:28:LYS:CD	3:N:29:PRO:HD2	2.08	0.82
3:N:101:HIS:HD1	3:N:103:TRP:HB2	1.41	0.82
2:H:92:ALA:HB2	2:H:120:LEU:HD11	1.60	0.82
3:I:997:THR:HG21	7:Y:61:ARG:NH2	1.94	0.82
2:M:675:ALA:HA	2:M:989:VAL:CG1	2.09	0.82
2:M:1097:LEU:HD11	3:N:1451:ALA:CB	2.07	0.82
3:N:189:GLN:NE2	3:N:190:GLU:H	1.77	0.82
3:N:1106:VAL:HG12	3:N:1107:VAL:H	1.43	0.82
7:X:115:THR:HB	7:X:116:PRO:HD3	1.60	0.82
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.09	0.82
2:C:1081:VAL:CG1	2:C:1085:PHE:HB3	2.09	0.82
3:D:620:GLY:O	3:D:621:LYS:HG2	1.78	0.82
3:D:984:THR:HG22	3:D:987:GLU:CG	2.08	0.82
1:G:133:GLU:HG3	1:G:134:GLU:H	1.45	0.82
2:H:500:ASN:HD22	2:H:500:ASN:N	1.76	0.82
2:H:1081:VAL:CG1	2:H:1085:PHE:HB3	2.10	0.82
3:I:513:ILE:O	3:I:513:ILE:HD12	1.80	0.82
3:I:1476:THR:HG23	4:J:21:VAL:HG22	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1037:GLN:HG2	3:D:1042:ARG:HB3	1.59	0.82
3:I:581:LEU:HD23	3:I:581:LEU:H	1.43	0.82
2:M:162:ILE:HD11	2:M:306:THR:HG21	1.61	0.82
2:M:333:ILE:HD12	2:M:333:ILE:N	1.95	0.82
2:M:1030:GLN:HE21	3:N:628:ARG:HD3	1.44	0.82
2:M:1090:LYS:HE3	3:N:90:MET:HG3	1.57	0.82
3:N:107:ASP:OD1	3:N:1444:THR:HG22	1.79	0.82
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.59	0.82
3:N:970:LYS:HD3	7:Z:113:LEU:CD2	2.09	0.82
2:C:140:ILE:HD11	2:C:412:ALA:HA	1.62	0.82
3:D:164:GLY:CA	3:D:449:SER:HB3	2.09	0.82
2:M:111:ASP:CB	2:M:369:PRO:CG	2.56	0.82
1:A:39:PRO:HG3	1:B:39:PRO:HG2	1.60	0.82
1:B:62:LEU:CD1	1:B:63:HIS:H	1.91	0.82
1:F:73:GLU:HB2	1:F:78:ILE:HD11	1.61	0.82
2:H:1072:LYS:O	3:I:659:LYS:HE2	1.80	0.82
3:I:584:ASN:ND2	3:I:590:PRO:HD2	1.94	0.82
3:I:984:THR:HG22	3:I:987:GLU:CG	2.08	0.82
2:M:52:PHE:HZ	2:M:98:LEU:CG	1.93	0.82
3:N:977:ALA:HB1	3:N:983:LEU:HD21	1.62	0.82
3:N:1292:VAL:HG23	3:N:1305:LEU:HG	1.60	0.82
3:D:1137:ARG:HB2	3:D:1137:ARG:HH11	1.45	0.82
2:H:274:ARG:HD2	2:H:285:LEU:HD22	1.59	0.82
2:H:1089:VAL:O	2:H:1093:GLN:HG2	1.79	0.82
2:H:1103:ASP:OD2	3:I:2:LYS:CA	2.22	0.82
2:H:1103:ASP:CG	3:I:2:LYS:HA	2.04	0.82
2:H:351:LEU:HD12	2:H:374:ASN:ND2	1.95	0.82
3:I:637:LEU:HD21	3:I:642:CYS:HA	1.61	0.82
2:C:88:LEU:HD13	2:C:89:THR:N	1.95	0.82
2:C:1089:VAL:O	2:C:1093:GLN:HG2	1.78	0.82
2:H:265:ARG:HB3	2:H:267:TYR:CZ	2.15	0.82
2:H:579:VAL:HG11	2:H:887:GLU:HG3	1.62	0.82
2:H:1095:LEU:HD12	2:H:1097:LEU:H	1.45	0.82
2:M:63:GLY:HA2	2:M:359:MET:HE2	1.62	0.82
2:M:274:ARG:CD	2:M:285:LEU:HD22	2.10	0.82
2:M:317:VAL:HG13	2:M:320:HIS:CE1	2.15	0.82
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.62	0.82
2:M:850:ALA:HA	3:N:632:VAL:CG1	2.10	0.82
3:N:133:ILE:HG22	3:N:134:VAL:H	1.45	0.82
7:X:134:VAL:HG23	7:X:154:ILE:HG13	1.61	0.82
1:B:133:GLU:HG3	1:B:134:GLU:H	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:984:THR:HG22	3:D:987:GLU:CD	2.05	0.81
2:H:578:VAL:HG23	2:H:579:VAL:HG12	1.62	0.81
2:M:111:ASP:HB3	2:M:369:PRO:HG2	1.62	0.81
2:M:557:ARG:HG2	2:M:881:ASN:ND2	1.94	0.81
3:N:111:LYS:HG2	3:N:1452:ILE:HD11	1.61	0.81
3:N:142:LEU:HB3	3:N:144:GLY:H	1.45	0.81
3:N:814:ALA:HB1	3:N:818:ARG:HH21	1.45	0.81
2:H:188:LYS:NZ	2:H:188:LYS:CB	2.43	0.81
2:M:71:TYR:HA	2:M:96:ALA:CB	2.10	0.81
2:M:1004:LYS:O	3:N:629:SER:HA	1.80	0.81
1:B:187:GLY:HA2	3:D:685:ASP:HA	1.62	0.81
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.43	0.81
2:C:282:GLY:O	2:C:283:ILE:HD13	1.80	0.81
3:D:112:ILE:HD13	3:D:112:ILE:C	2.05	0.81
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.59	0.81
3:D:513:ILE:HD12	3:D:513:ILE:O	1.80	0.81
2:H:148:PHE:CE1	2:H:309:TYR:HD1	1.98	0.81
3:I:166:GLN:HE22	3:I:394:LEU:HD12	1.46	0.81
3:I:977:ALA:HB1	3:I:983:LEU:HD21	1.62	0.81
3:I:1106:VAL:HG12	3:I:1107:VAL:H	1.43	0.81
1:K:153:ALA:HA	1:K:156:HIS:NE2	1.93	0.81
1:L:76:VAL:HB	3:N:872:ARG:NH1	1.94	0.81
2:M:516:ARG:NE	3:N:1068:LEU:HD22	1.95	0.81
2:M:1081:VAL:CG1	2:M:1085:PHE:HB3	2.09	0.81
3:N:520:LEU:HD23	3:N:525:ARG:HD2	1.62	0.81
3:D:989:TYR:CE2	3:D:993:LEU:HD11	2.16	0.81
4:E:54:LEU:HD23	4:E:58:PRO:HD2	1.63	0.81
3:I:205:TYR:HB2	3:I:393:ILE:HG13	1.62	0.81
2:M:12:VAL:HG11	2:M:472:ARG:HD3	1.61	0.81
2:C:98:LEU:HD11	2:C:113:VAL:HG22	1.63	0.81
3:D:982:PHE:HE1	7:X:100:LEU:HD21	1.43	0.81
1:G:190:THR:CB	3:I:722:GLU:OE1	2.29	0.81
3:I:112:ILE:HD13	3:I:112:ILE:C	2.05	0.81
3:I:984:THR:HG22	3:I:987:GLU:CD	2.05	0.81
3:I:1264:GLU:OE2	3:I:1424:VAL:HG13	1.81	0.81
1:K:156:HIS:CD2	1:K:157:GLY:H	1.99	0.81
1:L:59:GLU:HG3	1:L:60:ASP:H	1.45	0.81
3:N:1283:ILE:HD12	3:N:1315:ASP:OD2	1.80	0.81
3:N:1288:GLU:O	3:N:1307:LYS:HE2	1.79	0.81
3:N:1297:GLU:HG2	3:N:1298:GLY:N	1.94	0.81
2:C:1074:GLU:HG2	2:C:1075:ASP:N	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:156:HIS:CD2	1:F:157:GLY:H	1.98	0.81
2:H:3:ILE:HA	2:H:900:ARG:O	1.81	0.81
2:M:70:GLU:HB2	2:M:97:ARG:NH2	1.94	0.81
2:C:24:GLU:OE2	2:C:27:ARG:HD3	1.81	0.81
2:C:473:ARG:HG2	2:C:473:ARG:HH11	1.45	0.81
2:C:576:ALA:HB3	2:C:900:ARG:HH11	1.43	0.81
4:J:54:LEU:CG	4:J:58:PRO:HG2	2.11	0.81
2:M:193:LEU:O	2:M:197:LEU:HG	1.80	0.81
2:C:129:ILE:HG22	2:C:130:ASN:N	1.89	0.81
3:D:18:ILE:CG2	3:D:518:PRO:HG3	2.11	0.81
1:G:42:ARG:HH11	1:G:42:ARG:HG2	1.43	0.81
2:H:564:MET:HE1	2:H:846:LYS:CE	2.09	0.81
3:I:99:ALA:O	3:I:514:LEU:N	2.14	0.81
1:K:206:THR:HG22	1:K:209:GLU:H	1.46	0.81
3:N:984:THR:HG22	3:N:987:GLU:CD	2.05	0.81
3:N:1264:GLU:OE2	3:N:1424:VAL:HG13	1.80	0.81
2:C:408:ARG:HH21	2:C:455:LEU:HD11	1.45	0.81
3:D:160:GLU:HG2	3:D:165:LYS:HB3	1.61	0.81
3:D:482:LYS:HE2	3:D:1388:ARG:NH2	1.96	0.81
2:H:109:LYS:HD3	2:H:368:THR:CG2	2.10	0.81
2:H:1004:LYS:CD	3:I:744:GLN:NE2	2.37	0.81
3:I:176:ASP:HA	3:I:390:PRO:HD2	1.61	0.81
3:I:408:GLU:HG3	3:I:409:VAL:N	1.92	0.81
2:M:39:ARG:NE	2:M:45:GLN:CD	2.39	0.81
2:M:1032:PHE:O	2:M:1036:GLU:HB2	1.80	0.81
3:N:86:ARG:NE	3:N:523:ASP:OD2	2.12	0.81
3:N:1443:THR:O	3:N:1447:LEU:HD13	1.80	0.81
1:A:39:PRO:O	1:A:43:ILE:HG13	1.81	0.81
1:B:24:VAL:HG22	1:B:196:THR:HG22	1.62	0.81
2:C:588:VAL:HG21	2:C:664:GLY:O	1.81	0.81
3:D:170:PRO:HB2	2:H:318:PRO:O	1.80	0.81
2:H:364:GLU:O	2:H:367:LEU:HG	1.81	0.81
3:I:1137:ARG:O	3:I:1141:GLU:HG3	1.81	0.81
2:M:1012:PRO:HD2	2:M:1026:GLN:HG2	1.63	0.81
3:N:996:TRP:O	3:N:1000:THR:HG22	1.81	0.81
1:A:206:THR:HG22	1:A:209:GLU:H	1.46	0.80
2:C:325:ILE:HD12	2:C:325:ILE:N	1.95	0.80
3:D:28:LYS:CG	3:D:29:PRO:HD2	2.10	0.80
3:I:680:GLN:O	3:I:683:ILE:HD12	1.80	0.80
3:N:513:ILE:HD12	3:N:513:ILE:O	1.80	0.80
3:N:1000:THR:O	3:N:1003:VAL:HG12	1.81	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:139:SER:HB3	7:X:148:GLU:HG3	1.62	0.80
7:Z:83:ILE:HD11	7:Z:151:VAL:HG11	1.61	0.80
3:D:15:PRO:CB	3:D:515:GLU:OE1	2.29	0.80
2:H:404:LEU:HA	2:H:407:LYS:HD3	1.63	0.80
2:H:689:VAL:HB	2:H:870:ILE:HG12	1.63	0.80
3:N:112:ILE:C	3:N:112:ILE:HD13	2.05	0.80
3:D:1264:GLU:OE2	3:D:1424:VAL:HG13	1.80	0.80
1:G:112:ARG:HD3	1:G:125:PRO:CB	2.12	0.80
2:H:309:TYR:CD1	2:H:313:LEU:HD11	2.16	0.80
2:H:668:LEU:HD12	2:H:668:LEU:N	1.96	0.80
2:M:1095:LEU:HD12	2:M:1097:LEU:H	1.45	0.80
1:B:123:MET:C	1:B:125:PRO:HD3	2.06	0.80
1:G:80:LEU:HD21	3:I:867:ARG:HB2	1.62	0.80
2:H:135:VAL:HG11	2:H:407:LYS:HA	1.61	0.80
2:H:726:ILE:HG13	2:H:734:LEU:HD11	1.62	0.80
1:K:39:PRO:O	1:K:43:ILE:HG13	1.81	0.80
1:L:44:LEU:HA	1:L:48:ILE:HD13	1.63	0.80
7:Z:12:TYR:CZ	7:Z:16:MET:HE3	2.16	0.80
1:A:156:HIS:CD2	1:A:157:GLY:H	1.98	0.80
2:C:1082:PRO:HG2	3:D:1469:GLY:HA3	1.61	0.80
2:H:2:GLU:O	2:H:899:GLN:HB2	1.80	0.80
1:K:25:LEU:HD22	1:L:225:PHE:CD2	2.17	0.80
2:M:70:GLU:CB	2:M:97:ARG:HH21	1.92	0.80
2:M:274:ARG:HD2	2:M:285:LEU:CD2	2.11	0.80
2:M:545:ASN:HB3	2:M:583:LEU:HD22	1.64	0.80
3:N:434:ARG:O	3:N:447:VAL:HG22	1.79	0.80
3:N:650:LEU:HD13	3:N:688:TRP:HZ3	1.47	0.80
2:C:571:LEU:HD11	2:C:701:THR:N	1.96	0.80
2:C:758:ARG:HB3	2:C:788:THR:O	1.82	0.80
2:H:657:ASP:OD1	2:H:662:GLU:HA	1.82	0.80
3:I:989:TYR:CE2	3:I:993:LEU:HD11	2.16	0.80
3:I:1256:LEU:HG	3:I:1260:ILE:HD11	1.63	0.80
2:M:292:ARG:HG2	2:M:299:LYS:HB2	1.64	0.80
2:M:676:ILE:HG22	2:M:988:VAL:O	1.80	0.80
3:N:989:TYR:CE2	3:N:993:LEU:HD11	2.16	0.80
2:C:657:ASP:OD1	2:C:662:GLU:HA	1.81	0.80
2:C:668:LEU:HD12	2:C:668:LEU:N	1.96	0.80
2:H:188:LYS:HG3	2:H:188:LYS:O	1.79	0.80
2:M:243:ARG:CB	2:M:244:PRO:HD2	1.98	0.80
2:M:399:ASN:OD1	2:M:402:SER:HB2	1.81	0.80
2:M:657:ASP:OD1	2:M:662:GLU:HA	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:9:ARG:HD2	3:D:1456:LYS:HE2	1.64	0.80
3:D:209:ARG:HB3	3:D:389:GLU:HB3	1.63	0.80
2:H:758:ARG:HB3	2:H:788:THR:O	1.82	0.80
3:I:89:ARG:O	3:I:521:PRO:CG	2.30	0.80
3:I:204:LEU:HD11	3:I:441:ARG:HH22	1.46	0.80
3:I:400:VAL:HG13	3:I:443:VAL:HG21	1.64	0.80
3:I:877:PRO:O	3:I:880:ILE:HG22	1.81	0.80
3:I:1468:LEU:HD13	3:I:1470:ARG:HE	1.46	0.80
3:N:1112:CYS:HB2	3:N:1195:GLN:HG2	1.64	0.80
2:C:73:LEU:HB2	2:C:93:PRO:O	1.81	0.80
3:D:877:PRO:O	3:D:880:ILE:HG22	1.81	0.80
3:D:1133:ARG:HH12	7:X:23:ARG:NH1	1.80	0.80
2:H:165:LEU:HD12	2:H:166:PRO:C	2.06	0.80
3:I:134:VAL:HG21	3:I:460:ALA:CB	2.12	0.80
3:I:996:TRP:O	3:I:1000:THR:HG22	1.81	0.80
3:I:1472:ILE:H	3:I:1472:ILE:HD12	1.47	0.80
1:L:24:VAL:HG22	1:L:196:THR:HG22	1.61	0.80
2:M:9:ILE:HG12	2:M:907:ASP:CG	2.07	0.80
2:M:115:LEU:H	2:M:115:LEU:CD2	1.94	0.80
2:M:334:ARG:NH2	2:M:339:LEU:HD23	1.97	0.80
2:M:668:LEU:HD12	2:M:668:LEU:N	1.96	0.80
3:N:877:PRO:O	3:N:880:ILE:HG22	1.81	0.80
3:D:158:TYR:HD1	3:D:162:ARG:HG2	1.46	0.80
3:D:172:PRO:HG2	3:D:175:VAL:CG2	2.07	0.80
3:D:814:ALA:HB1	3:D:818:ARG:HH21	1.45	0.80
2:H:193:LEU:H	2:H:193:LEU:HD12	1.25	0.80
2:H:294:GLU:HG2	2:H:295:ASP:CG	2.06	0.80
3:I:814:ALA:HB1	3:I:818:ARG:HH21	1.45	0.80
3:I:996:TRP:CD2	3:I:1056:PRO:HG2	2.17	0.80
2:C:471:TYR:O	2:C:483:VAL:HG13	1.83	0.79
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.62	0.79
1:F:206:THR:HG22	1:F:209:GLU:H	1.46	0.79
2:H:1037:VAL:HG13	2:H:1049:LEU:HD11	1.65	0.79
1:B:41:ARG:HH11	1:B:177:VAL:HG23	1.45	0.79
3:D:970:LYS:NZ	7:X:113:LEU:HD23	1.96	0.79
3:D:1494:ALA:HA	3:D:1497:GLU:HG3	1.64	0.79
2:M:404:LEU:HA	2:M:407:LYS:HD3	1.63	0.79
3:N:554:LEU:O	3:N:558:LEU:HG	1.82	0.79
3:N:676:MET:O	3:N:680:GLN:HB3	1.81	0.79
3:N:1494:ALA:HA	3:N:1497:GLU:HG3	1.65	0.79
3:D:358:GLY:HA2	3:D:385:VAL:O	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:24:VAL:HG22	1:G:196:THR:HG22	1.62	0.79
2:H:203:ASP:HB2	2:H:205:GLU:OE2	1.82	0.79
3:I:1000:THR:O	3:I:1003:VAL:HG12	1.81	0.79
2:M:374:ASN:H	2:M:374:ASN:HD22	1.30	0.79
3:N:365:ASP:O	3:N:379:ALA:HB2	1.81	0.79
2:C:545:ASN:HB3	2:C:583:LEU:HD22	1.64	0.79
3:D:139:GLY:O	3:D:147:VAL:HB	1.80	0.79
2:H:545:ASN:HB3	2:H:583:LEU:HD22	1.64	0.79
2:M:31:GLN:CG	2:M:34:VAL:HG22	2.13	0.79
3:N:1301:LYS:HG3	3:N:1303:TYR:CE1	2.18	0.79
7:X:24:GLU:CA	7:X:27:GLN:HE21	1.96	0.79
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.64	0.79
1:F:39:PRO:O	1:F:43:ILE:HG13	1.81	0.79
2:H:98:LEU:HD12	2:H:98:LEU:H	1.46	0.79
2:H:151:ASP:CG	2:H:152:PRO:HD2	2.08	0.79
2:H:1095:LEU:HB2	3:I:101:HIS:CE1	2.18	0.79
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.64	0.79
3:N:166:GLN:NE2	3:N:394:LEU:HD12	1.97	0.79
1:B:187:GLY:C	3:D:685:ASP:HA	2.08	0.79
2:C:437:ARG:NH2	2:C:488:ALA:HA	1.98	0.79
3:D:977:ALA:HB1	3:D:983:LEU:HD21	1.62	0.79
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.64	0.79
2:H:317:VAL:N	2:H:318:PRO:HD3	1.96	0.79
3:I:1235:GLN:HE21	7:Y:37:MET:HG3	1.46	0.79
3:I:1288:GLU:HG2	3:I:1307:LYS:HE2	1.64	0.79
4:J:18:ARG:HH21	4:J:18:ARG:HB2	1.48	0.79
2:M:305:PRO:HG3	2:M:308:ARG:HH21	1.46	0.79
3:N:387:LEU:HD12	3:N:387:LEU:N	1.97	0.79
2:C:1095:LEU:HD12	2:C:1097:LEU:H	1.45	0.79
3:D:207:PHE:CE1	2:H:283:ILE:HB	2.18	0.79
3:D:520:LEU:HD23	3:D:525:ARG:HD2	1.62	0.79
3:D:1330:ILE:HD13	3:D:1347:TYR:OH	1.83	0.79
1:F:211:LEU:O	1:F:215:VAL:HG23	1.82	0.79
3:I:1209:LEU:HD21	4:J:16:LYS:HE3	1.64	0.79
2:M:66:LEU:HD22	2:M:372:LEU:HD22	1.65	0.79
3:N:1330:ILE:HD13	3:N:1347:TYR:OH	1.83	0.79
1:A:211:LEU:O	1:A:215:VAL:HG23	1.82	0.79
2:C:1095:LEU:CD1	2:C:1097:LEU:HB2	2.13	0.79
3:D:33:ASN:HD21	3:D:35:ARG:NH2	1.80	0.79
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.47	0.79
3:I:1301:LYS:HG3	3:I:1303:TYR:CE1	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:211:LEU:O	1:K:215:VAL:HG23	1.82	0.79
1:L:57:TYR:CE2	1:L:161:ARG:HG2	2.18	0.79
3:N:213:VAL:HG13	3:N:384:VAL:O	1.82	0.79
3:N:1233:GLY:HA2	3:N:1236:LEU:CD1	2.11	0.79
2:C:537:LYS:HG3	2:C:545:ASN:OD1	1.83	0.79
3:D:996:TRP:O	3:D:1000:THR:HG22	1.81	0.79
2:H:1032:PHE:O	2:H:1036:GLU:HB2	1.82	0.79
3:I:9:ARG:HD3	3:I:1456:LYS:HE2	1.64	0.79
2:M:70:GLU:O	2:M:96:ALA:HB1	1.81	0.79
2:M:996:LYS:NZ	2:M:1000:MET:SD	2.55	0.79
3:N:1209:LEU:HD23	3:N:1211:MET:H	1.48	0.79
3:N:1496:GLU:HA	3:N:1499:ARG:NE	1.97	0.79
2:C:30:LEU:HD12	2:C:30:LEU:O	1.83	0.79
2:C:395:LYS:HG2	2:C:397:GLU:HG3	1.65	0.79
2:C:603:VAL:HA	2:C:613:VAL:HG12	1.64	0.79
3:D:204:LEU:O	3:D:393:ILE:HG23	1.81	0.79
3:D:1000:THR:O	3:D:1003:VAL:HG12	1.81	0.79
3:D:413:ASP:O	3:D:435:VAL:HG23	1.82	0.78
2:H:632:ASN:HB3	2:H:633:GLN:HE21	1.48	0.78
3:N:128:TYR:HE2	3:N:458:ALA:HA	1.47	0.78
3:N:137:PRO:CD	3:N:453:ASP:HB2	2.13	0.78
3:N:857:ILE:HG22	3:N:858:VAL:HG13	1.65	0.78
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.65	0.78
2:C:861:LEU:HD23	2:C:863:ASP:H	1.49	0.78
2:C:1012:PRO:HD2	2:C:1026:GLN:HG2	1.65	0.78
2:H:1029:GLY:O	3:I:622:ARG:CD	2.31	0.78
3:I:177:ALA:H	3:I:390:PRO:HD3	1.46	0.78
3:I:1485:GLN:HE21	4:J:79:LEU:H	1.31	0.78
3:N:11:ALA:HB1	3:N:507:ASN:ND2	1.98	0.78
3:N:792:ILE:HD11	3:N:881:LEU:HD23	1.65	0.78
3:N:1035:ILE:HA	3:N:1038:LEU:HD12	1.65	0.78
3:N:1156:LEU:CD1	3:N:1176:LYS:HE3	2.12	0.78
3:D:481:MET:CE	3:D:493:ARG:HA	2.13	0.78
2:H:267:TYR:CB	2:H:272:ALA:HB1	2.12	0.78
2:H:305:PRO:HA	2:H:308:ARG:HB3	1.65	0.78
2:H:437:ARG:NH2	2:H:488:ALA:HA	1.98	0.78
2:H:537:LYS:HG3	2:H:545:ASN:OD1	1.83	0.78
3:I:50:PHE:HA	3:I:89:ARG:HB3	1.64	0.78
3:I:405:ASP:H	3:I:423:ASP:CG	1.92	0.78
3:I:792:ILE:HD11	3:I:881:LEU:HD23	1.65	0.78
2:C:185:LYS:CG	2:C:190:LYS:CB	2.62	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:704:ARG:NH2	6:Q:16:G:O2'	2.16	0.78
3:D:857:ILE:HG22	3:D:858:VAL:HG13	1.65	0.78
3:D:1209:LEU:HD22	3:D:1211:MET:HB3	1.65	0.78
3:I:481:MET:CE	3:I:493:ARG:HA	2.13	0.78
2:M:260:LEU:HD23	2:M:260:LEU:O	1.84	0.78
3:N:211:VAL:HG12	3:N:213:VAL:CG2	2.12	0.78
2:C:211:LEU:HD23	2:C:221:LEU:HD21	1.65	0.78
2:C:374:ASN:HD22	2:C:374:ASN:N	1.79	0.78
1:G:79:ILE:HA	1:G:82:LEU:HD12	1.65	0.78
2:H:218:VAL:O	2:H:221:LEU:HG	1.83	0.78
2:H:344:PHE:HE2	2:H:378:LEU:HD21	1.49	0.78
2:H:508:ILE:HD12	2:H:526:PRO:HB3	1.65	0.78
2:M:1074:GLU:HG2	2:M:1075:ASP:N	1.96	0.78
3:N:1209:LEU:HD21	4:O:16:LYS:CE	2.12	0.78
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.46	0.78
2:C:266:ARG:O	2:C:266:ARG:HD3	1.84	0.78
3:D:171:LEU:HD23	3:D:172:PRO:HD2	1.63	0.78
3:D:365:ASP:O	3:D:379:ALA:CB	2.32	0.78
3:I:1209:LEU:HD23	3:I:1211:MET:H	1.48	0.78
3:I:1330:ILE:HD13	3:I:1347:TYR:OH	1.83	0.78
2:M:364:GLU:O	2:M:367:LEU:HG	1.82	0.78
3:N:481:MET:CE	3:N:493:ARG:HA	2.13	0.78
7:X:6:LYS:HD3	7:X:75:LEU:HD21	1.63	0.78
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.65	0.78
2:H:334:ARG:HA	2:H:338:GLU:OE2	1.83	0.78
2:H:565:GLN:HG2	2:H:995:MET:HE1	1.65	0.78
3:I:160:GLU:HA	3:I:165:LYS:HB2	1.66	0.78
3:I:857:ILE:HG22	3:I:858:VAL:HG13	1.65	0.78
2:M:129:ILE:N	2:M:129:ILE:HD12	1.98	0.78
2:M:681:GLY:C	3:N:635:PRO:HG3	2.08	0.78
3:N:392:SER:C	3:N:393:ILE:HD12	2.08	0.78
3:N:838:ARG:HB3	3:N:865:THR:HG23	1.66	0.78
2:C:144:PRO:HB3	2:C:164:PRO:HA	1.66	0.78
3:D:95:LEU:HA	3:D:551:ASN:OD1	1.84	0.78
3:D:160:GLU:CA	3:D:165:LYS:HB2	2.14	0.78
1:F:128:HIS:CE1	1:F:131:THR:HG23	2.19	0.78
2:M:537:LYS:HG3	2:M:545:ASN:OD1	1.83	0.78
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.66	0.78
2:M:861:LEU:HD23	2:M:863:ASP:H	1.49	0.78
2:M:1095:LEU:CD1	2:M:1097:LEU:HB2	2.13	0.78
3:N:82:LYS:O	3:N:85:VAL:HG22	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:956:ILE:CD1	3:N:1062:ARG:HG3	2.14	0.78
3:D:99:ALA:HB1	3:D:575:GLN:OE1	1.82	0.78
2:H:288:ARG:HB2	2:H:288:ARG:NH1	1.98	0.78
2:H:474:VAL:CG2	2:H:479:VAL:HG12	2.14	0.78
2:H:1090:LYS:HE3	3:I:90:MET:HG3	1.63	0.78
3:I:39:PRO:HB3	3:I:45:PHE:HB2	1.66	0.78
2:M:127:PHE:CE1	2:M:136:ILE:HD13	2.18	0.78
2:M:564:MET:HE2	2:M:846:LYS:HD2	1.64	0.78
3:N:50:PHE:CD1	3:N:522:PRO:CG	2.63	0.78
7:Z:57:ARG:HH21	7:Z:57:ARG:CB	1.97	0.78
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.13	0.78
2:C:325:ILE:H	2:C:325:ILE:CD1	1.93	0.78
2:C:632:ASN:HB3	2:C:633:GLN:HE21	1.48	0.78
2:C:1105:LYS:HD2	2:C:1107:ASN:HD22	1.49	0.78
2:H:182:VAL:HG12	2:H:193:LEU:HD21	1.56	0.78
2:H:679:PHE:HB2	2:H:683:ASN:HD21	1.48	0.78
2:H:1052:MET:SD	3:I:623:VAL:HG21	2.24	0.78
3:N:347:VAL:HG13	3:N:351:MET:CB	2.14	0.78
3:N:510:GLU:O	3:N:513:ILE:HG13	1.84	0.78
3:N:1084:THR:HA	3:N:1087:ARG:HD2	1.64	0.78
2:C:679:PHE:HB2	2:C:683:ASN:HD21	1.49	0.77
1:G:74:ASP:HB3	3:I:872:ARG:HH22	1.48	0.77
2:H:304:LEU:CG	2:H:305:PRO:HD3	2.14	0.77
3:I:510:GLU:O	3:I:513:ILE:HG13	1.84	0.77
3:N:1361:VAL:HG23	7:Z:37:MET:SD	2.24	0.77
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.19	0.77
2:C:148:PHE:HE1	2:C:309:TYR:HD2	1.31	0.77
2:C:1097:LEU:HD11	3:D:1451:ALA:CA	2.14	0.77
2:H:95:TYR:HB3	2:H:114:PHE:HA	1.65	0.77
2:H:118:ILE:HG22	2:H:382:ILE:HD13	1.65	0.77
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.64	0.77
7:Z:14:ARG:HB3	7:Z:14:ARG:NH1	1.99	0.77
1:B:44:LEU:HA	1:B:48:ILE:CD1	2.14	0.77
3:D:838:ARG:HB3	3:D:865:THR:HG23	1.66	0.77
2:H:290:LEU:CB	2:H:302:VAL:HG11	2.14	0.77
2:H:391:LEU:O	2:H:391:LEU:HD23	1.83	0.77
2:H:794:PRO:CG	2:H:1025:ALA:HA	2.14	0.77
2:H:1095:LEU:CD1	2:H:1097:LEU:HB2	2.13	0.77
3:I:25:GLU:HG3	3:I:92:HIS:O	1.85	0.77
1:K:79:ILE:HG13	1:K:80:LEU:N	1.97	0.77
1:L:86:VAL:HG12	1:L:124:ASN:HB2	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:157:ARG:CZ	2:M:314:THR:HG21	2.14	0.77
3:N:543:LEU:HD22	3:N:580:ALA:HB1	1.66	0.77
2:C:1009:SER:HB3	3:D:651:GLU:O	1.85	0.77
3:D:367:ILE:HB	3:D:377:VAL:HG12	1.65	0.77
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.47	0.77
3:D:804:LEU:HD23	3:D:804:LEU:N	1.99	0.77
4:E:36:LYS:HA	4:E:36:LYS:NZ	1.99	0.77
4:E:36:LYS:HA	4:E:36:LYS:HZ3	1.46	0.77
1:G:88:ARG:HH11	1:G:123:MET:HE1	1.47	0.77
1:G:94:LEU:HD11	1:G:119:ASP:HB2	1.67	0.77
2:H:52:PHE:CD2	2:H:68:PHE:HB2	2.19	0.77
2:H:754:ILE:HG13	2:H:791:ARG:NH1	2.00	0.77
2:H:1012:PRO:HD2	2:H:1026:GLN:HG2	1.65	0.77
3:I:555:LYS:HA	3:I:558:LEU:HD12	1.67	0.77
3:I:584:ASN:HB2	3:I:602:SER:OG	1.84	0.77
3:I:838:ARG:HB3	3:I:865:THR:HG23	1.66	0.77
3:I:991:GLN:HE22	7:Y:112:VAL:HB	1.48	0.77
3:I:1061:PHE:HE1	3:I:1065:LEU:HD22	1.50	0.77
2:M:141:HIS:NE2	2:M:332:ARG:HB3	1.99	0.77
2:M:334:ARG:HH11	2:M:418:LEU:HD21	1.48	0.77
2:M:794:PRO:HG2	2:M:1025:ALA:HA	1.66	0.77
3:N:501:ALA:CB	3:N:1452:ILE:HG22	2.13	0.77
3:D:398:ALA:HB2	3:D:447:VAL:HA	1.67	0.77
3:I:398:ALA:CB	3:I:447:VAL:HA	2.13	0.77
3:I:1326:THR:HG22	3:I:1327:ARG:H	1.47	0.77
1:K:128:HIS:CE1	1:K:131:THR:HG23	2.19	0.77
3:N:1442:ASN:ND2	3:N:1445:HIS:H	1.82	0.77
3:I:204:LEU:O	3:I:393:ILE:CA	2.33	0.77
3:I:650:LEU:HD13	3:I:688:TRP:HZ3	1.47	0.77
3:N:676:MET:CE	3:N:684:LYS:HE3	2.15	0.77
3:D:25:GLU:HG3	3:D:92:HIS:O	1.85	0.77
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.65	0.77
2:H:5:ARG:HB2	2:H:902:ILE:HB	1.67	0.77
2:H:202:TYR:CE2	2:H:304:LEU:HD22	2.20	0.77
2:H:1004:LYS:O	3:I:629:SER:HA	1.85	0.77
3:I:1254:GLN:CG	3:I:1255:GLY:H	1.92	0.77
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.65	0.77
2:M:834:GLN:HE22	3:N:724:GLN:CG	1.93	0.77
3:N:1061:PHE:HE1	3:N:1065:LEU:HD22	1.50	0.77
3:N:1166:LEU:H	3:N:1166:LEU:HD23	1.48	0.77
2:C:267:TYR:CB	2:C:272:ALA:HB1	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:473:ARG:HA	2:C:531:PHE:CD1	2.19	0.77
3:D:365:ASP:O	3:D:379:ALA:HB2	1.85	0.77
3:D:1042:ARG:O	3:D:1057:VAL:HB	1.85	0.77
1:G:83:LYS:HD3	3:I:844:ALA:HB2	1.65	0.77
1:G:165:ILE:HD13	1:G:165:ILE:N	1.99	0.77
2:H:218:VAL:HG22	2:H:221:LEU:HD21	1.66	0.77
2:H:681:GLY:C	3:I:635:PRO:HG3	2.09	0.77
2:H:1019:GLN:OE1	3:I:621:LYS:HG3	1.81	0.77
3:I:482:LYS:HE2	3:I:1388:ARG:HH22	1.46	0.77
4:J:25:LYS:HA	4:J:28:GLN:HG3	1.67	0.77
2:M:30:LEU:O	2:M:30:LEU:CD1	2.30	0.77
2:M:109:LYS:HD3	2:M:368:THR:HG22	1.65	0.77
3:N:956:ILE:HD11	3:N:1062:ARG:HB3	1.66	0.77
1:B:86:VAL:HG12	1:B:124:ASN:HB2	1.65	0.77
2:C:874:LEU:O	3:D:1029:ARG:HD2	1.85	0.77
3:D:207:PHE:CZ	2:H:284:ARG:HB2	2.20	0.77
3:N:1152:GLU:HG2	3:N:1161:GLU:HA	1.67	0.77
4:O:28:GLN:O	4:O:31:LEU:HD12	1.85	0.77
3:D:510:GLU:O	3:D:513:ILE:HG13	1.84	0.77
3:I:138:LYS:HD3	3:I:138:LYS:H	1.50	0.77
3:I:1288:GLU:HG2	3:I:1307:LYS:CE	2.15	0.77
1:L:190:THR:CB	3:N:722:GLU:OE1	2.33	0.77
2:M:18:LEU:H	2:M:18:LEU:HD12	1.48	0.77
2:M:157:ARG:CZ	2:M:314:THR:CG2	2.63	0.77
1:A:42:ARG:NH1	1:B:34:VAL:HB	1.98	0.76
2:C:196:LEU:CD2	2:C:200:LEU:HD11	2.09	0.76
2:C:1085:PHE:CE2	3:D:1468:LEU:HG	2.19	0.76
3:D:208:PRO:O	3:D:347:VAL:HB	1.85	0.76
3:D:1061:PHE:HE1	3:D:1065:LEU:HD22	1.50	0.76
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.65	0.76
1:F:74:ASP:O	1:F:78:ILE:HG12	1.85	0.76
2:H:136:ILE:CG2	2:H:336:VAL:HG13	2.15	0.76
2:H:754:ILE:N	2:H:754:ILE:HD12	2.00	0.76
3:I:1035:ILE:HA	3:I:1038:LEU:HD12	1.65	0.76
2:M:436:GLY:HA2	2:M:538:GLN:O	1.85	0.76
3:N:970:LYS:CD	7:Z:113:LEU:CD2	2.60	0.76
3:N:1101:VAL:HG11	3:N:1424:VAL:HG23	1.67	0.76
2:H:274:ARG:HG2	2:H:274:ARG:HH11	1.48	0.76
2:H:474:VAL:HG23	2:H:478:VAL:O	1.84	0.76
3:I:470:LEU:HB2	3:I:503:LEU:HD21	1.67	0.76
3:I:1042:ARG:O	3:I:1057:VAL:HB	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:189:ARG:HA	2:M:189:ARG:NE	2.00	0.76
2:M:261:ILE:H	2:M:261:ILE:HD12	1.48	0.76
2:M:679:PHE:HB2	2:M:683:ASN:HD21	1.48	0.76
3:N:25:GLU:HG3	3:N:92:HIS:O	1.85	0.76
3:N:1101:VAL:HG23	3:N:1102:THR:HG23	1.67	0.76
4:O:41:GLU:O	4:O:45:ARG:HD2	1.86	0.76
2:H:857:ASP:HB2	2:H:978:ARG:HG2	1.68	0.76
3:I:203:ALA:HB1	3:I:393:ILE:HG21	1.67	0.76
3:I:1384:PRO:HG3	3:I:1389:LEU:HB3	1.67	0.76
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.00	0.76
2:M:54:ILE:HG13	2:M:356:ARG:NH2	1.99	0.76
2:M:79:PRO:HG2	2:M:82:GLU:CB	2.14	0.76
2:M:200:LEU:CD1	2:M:300:ASP:OD2	2.32	0.76
2:M:221:LEU:C	2:M:223:ASP:H	1.91	0.76
2:M:1086:ARG:NH1	3:N:88:TYR:CD1	2.53	0.76
3:N:180:LYS:HZ1	3:N:387:LEU:N	1.83	0.76
7:Y:13:GLU:HG2	7:Y:17:GLN:NE2	2.01	0.76
2:C:274:ARG:HG2	2:C:274:ARG:HH11	1.51	0.76
2:C:754:ILE:HD12	2:C:754:ILE:N	2.00	0.76
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.67	0.76
3:D:581:LEU:HD23	3:D:582:LEU:N	2.01	0.76
3:D:603:LEU:O	3:D:606:ILE:HG22	1.85	0.76
1:G:80:LEU:HG	3:I:844:ALA:CA	2.14	0.76
3:I:1395:LEU:HD23	3:I:1396:GLU:N	2.00	0.76
3:I:1481:VAL:HG13	4:J:18:ARG:HD3	1.67	0.76
2:M:39:ARG:HE	2:M:45:GLN:HE21	1.25	0.76
2:M:754:ILE:N	2:M:754:ILE:HD12	2.00	0.76
2:C:12:VAL:HG11	2:C:472:ARG:HD3	1.68	0.76
2:C:175:GLU:CG	2:C:183:SER:HB3	2.12	0.76
3:D:728:LEU:HD12	3:D:729:HIS:H	1.51	0.76
3:D:800:LYS:HD3	3:D:830:ALA:HB3	1.67	0.76
2:H:18:LEU:H	2:H:18:LEU:HD12	1.51	0.76
2:H:144:PRO:HG2	2:H:265:ARG:NH1	2.01	0.76
3:I:398:ALA:HB2	3:I:447:VAL:CG1	2.16	0.76
2:M:79:PRO:HG2	2:M:82:GLU:HG3	1.67	0.76
3:N:134:VAL:HG22	3:N:455:ARG:O	1.85	0.76
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.20	0.76
1:B:71:VAL:HG13	1:B:132:LEU:HD12	1.68	0.76
3:D:614:PHE:CD2	3:D:1438:ALA:HB1	2.20	0.76
2:H:304:LEU:H	2:H:304:LEU:HD23	1.50	0.76
2:H:1105:LYS:HD2	2:H:1107:ASN:HD22	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:87:ARG:HG2	3:I:523:ASP:HB2	1.68	0.76
3:I:1161:GLU:HG2	3:I:1164:ARG:HB2	1.67	0.76
2:M:707:ARG:HG3	2:M:826:TYR:CE1	2.21	0.76
2:M:1105:LYS:HD2	2:M:1107:ASN:HD22	1.50	0.76
3:N:1288:GLU:HG2	3:N:1307:LYS:HE2	1.68	0.76
7:Y:7:LEU:HD21	7:Y:72:ALA:CB	2.14	0.76
2:C:101:ILE:HD12	2:C:108:ILE:HD13	1.68	0.76
3:D:192:ALA:HB1	3:D:193:PRO:HD2	1.68	0.76
1:F:87:VAL:HG21	1:F:144:VAL:HG11	1.65	0.76
2:H:436:GLY:HA2	2:H:538:GLN:O	1.86	0.76
3:I:105:VAL:HG21	3:I:128:TYR:HE1	1.50	0.76
3:I:728:LEU:HD12	3:I:729:HIS:H	1.51	0.76
2:M:48:PHE:HD1	2:M:348:LEU:HD21	1.47	0.76
2:M:1056:LYS:HD3	3:N:623:VAL:HG13	1.66	0.76
3:N:116:LEU:HD22	3:N:118:LEU:CG	2.15	0.76
3:N:452:ILE:HD13	3:N:452:ILE:C	2.11	0.76
1:A:226:SER:O	1:A:228:PRO:HD3	1.86	0.76
2:C:165:LEU:HB2	2:C:265:ARG:NH1	2.01	0.76
3:D:800:LYS:HG3	3:D:829:VAL:CG1	2.16	0.76
4:J:59:ASN:OD1	4:J:61:VAL:HG22	1.86	0.76
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.67	0.76
2:M:632:ASN:HB3	2:M:633:GLN:HE21	1.48	0.76
3:N:178:LEU:HD13	3:N:179:VAL:HG23	1.68	0.76
3:N:470:LEU:HB2	3:N:503:LEU:HD21	1.67	0.76
1:A:66:SER:O	1:A:75:VAL:HG23	1.86	0.76
2:C:754:ILE:HG13	2:C:791:ARG:NH1	2.00	0.76
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.51	0.76
2:H:165:LEU:O	2:H:265:ARG:CD	2.33	0.76
2:H:794:PRO:HG2	2:H:1025:ALA:HA	1.67	0.76
3:N:357:GLU:HG2	3:N:441:ARG:HG2	1.68	0.76
3:N:984:THR:HG23	3:N:987:GLU:H	1.51	0.76
3:N:1078:ARG:NH1	3:N:1078:ARG:HG2	2.00	0.76
3:N:1362:LYS:CD	7:Z:34:GLN:NE2	2.47	0.76
2:C:412:ALA:O	2:C:419:THR:HG23	1.86	0.76
2:C:564:MET:CE	2:C:846:LYS:CE	2.63	0.76
3:D:984:THR:HG23	3:D:987:GLU:H	1.51	0.76
2:H:15:LEU:HD12	2:H:15:LEU:N	2.00	0.76
2:H:342:ASP:HA	2:H:345:ARG:HD3	1.67	0.76
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.66	0.76
2:M:557:ARG:HH11	2:M:560:MET:HG3	1.51	0.76
3:N:100:ALA:HB2	3:N:128:TYR:OH	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:127:LEU:CD2	3:D:134:VAL:CG1	2.64	0.75
3:D:618:LEU:CD2	3:D:1463:LYS:HE2	2.16	0.75
3:D:1123:PHE:HD2	3:D:1184:GLN:HG3	1.52	0.75
3:N:1264:GLU:OE2	3:N:1424:VAL:CG1	2.34	0.75
7:X:33:LEU:HD11	7:X:52:LYS:HG3	1.67	0.75
7:Z:7:LEU:HA	7:Z:109:GLU:OE2	1.86	0.75
1:B:62:LEU:HD12	1:B:62:LEU:N	2.01	0.75
3:D:347:VAL:HG13	3:D:351:MET:CB	2.16	0.75
3:I:571:LYS:O	3:I:574:LEU:HB3	1.86	0.75
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.50	0.75
3:N:1468:LEU:HD13	3:N:1470:ARG:NE	2.01	0.75
2:C:436:GLY:HA2	2:C:538:GLN:O	1.86	0.75
2:H:358:ARG:HH22	2:H:374:ASN:CG	1.94	0.75
2:H:1095:LEU:HD11	2:H:1097:LEU:CD2	2.17	0.75
3:I:131:LYS:CB	3:I:568:ARG:NE	2.46	0.75
3:I:543:LEU:HD21	3:I:600:LEU:HB2	1.69	0.75
1:L:106:PRO:HG3	1:L:134:GLU:HA	1.68	0.75
5:R:17:DG:H2''	5:R:18:DC:H5'	1.69	0.75
2:C:196:LEU:HD22	2:C:303:PHE:CE2	2.21	0.75
2:C:265:ARG:HB3	2:C:267:TYR:CE1	2.22	0.75
3:D:176:ASP:CB	3:D:389:GLU:HG2	2.16	0.75
3:D:347:VAL:HG13	3:D:351:MET:HB3	1.66	0.75
3:D:470:LEU:HB2	3:D:503:LEU:HD21	1.67	0.75
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.16	0.75
2:H:69:LEU:HD21	2:H:99:GLN:HG2	1.67	0.75
3:I:87:ARG:HG2	3:I:523:ASP:CB	2.15	0.75
2:M:63:GLY:HA3	2:M:103:LYS:CE	2.17	0.75
2:M:678:PRO:HG2	3:N:947:ILE:HD11	1.67	0.75
3:N:890:VAL:HG11	3:N:922:LEU:HD12	1.69	0.75
3:N:1042:ARG:O	3:N:1057:VAL:HB	1.85	0.75
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.68	0.75
2:C:11:GLU:HG2	2:C:537:LYS:HZ1	1.51	0.75
3:D:969:ARG:HG3	3:D:970:LYS:N	2.02	0.75
1:G:38:ASN:HB3	1:G:39:PRO:HD3	1.68	0.75
3:I:1078:ARG:HG2	3:I:1078:ARG:NH1	2.00	0.75
2:M:65:VAL:HB	2:M:101:ILE:O	1.87	0.75
2:M:304:LEU:HG	2:M:305:PRO:HD3	1.67	0.75
2:M:1090:LYS:HE3	3:N:90:MET:SD	2.27	0.75
1:A:18:ARG:O	1:A:207:PRO:HD3	1.86	0.75
2:C:36:PRO:C	2:C:39:ARG:HG3	2.12	0.75
2:C:181:VAL:HG11	2:C:223:ASP:OD2	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:141:ILE:HG13	3:D:448:GLU:CD	2.12	0.75
3:D:169:TYR:CE2	3:D:197:SER:HA	2.21	0.75
3:D:677:LEU:CD2	3:D:683:ILE:CD1	2.65	0.75
2:H:242:LEU:O	2:H:243:ARG:CG	2.34	0.75
2:H:265:ARG:HB3	2:H:267:TYR:CD2	2.21	0.75
3:I:166:GLN:HE21	3:I:396:VAL:CG1	1.99	0.75
3:I:871:LYS:HZ1	1:L:60:ASP:HA	1.47	0.75
3:I:1379:VAL:HG12	3:I:1419:PRO:HA	1.69	0.75
2:M:265:ARG:HH12	2:M:332:ARG:NH1	1.80	0.75
2:M:565:GLN:HG2	2:M:995:MET:HE1	1.69	0.75
2:M:1095:LEU:HD11	2:M:1097:LEU:CD2	2.17	0.75
7:Y:19:LEU:HD21	7:Y:23:ARG:NH2	2.02	0.75
7:Z:11:GLY:O	7:Z:15:LEU:HG	1.87	0.75
1:A:75:VAL:O	1:A:79:ILE:HG23	1.86	0.75
1:A:102:LYS:HD3	1:A:139:ASN:ND2	2.01	0.75
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.86	0.75
1:G:44:LEU:HA	1:G:48:ILE:HD13	1.67	0.75
2:H:442:GLU:HG2	2:H:454:SER:CB	2.17	0.75
2:H:730:SER:O	2:H:734:LEU:HD13	1.86	0.75
2:H:965:GLU:HA	2:H:968:LEU:HD12	1.69	0.75
3:I:143:ASN:HA	3:I:161:LEU:HD11	1.69	0.75
3:I:690:ALA:O	3:I:694:VAL:HG23	1.86	0.75
2:M:850:ALA:HA	3:N:632:VAL:HG11	1.68	0.75
3:N:1384:PRO:CG	3:N:1389:LEU:HB3	2.17	0.75
1:B:152:PRO:HG2	3:D:857:ILE:HD11	1.69	0.75
2:C:73:LEU:HD22	2:C:118:ILE:HD11	1.68	0.75
3:D:190:GLU:HG2	3:D:196:VAL:HG22	1.69	0.75
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.17	0.75
1:F:102:LYS:HD3	1:F:139:ASN:ND2	2.01	0.75
2:H:89:THR:O	2:H:91:GLN:HG3	1.87	0.75
3:I:123:LEU:HD21	3:I:151:GLN:NE2	2.00	0.75
3:I:1095:THR:O	3:I:1099:VAL:HG23	1.86	0.75
1:K:102:LYS:HD3	1:K:139:ASN:ND2	2.01	0.75
2:M:129:ILE:HD11	2:M:134:ARG:HB2	1.69	0.75
3:D:481:MET:O	3:D:489:ARG:HB2	1.87	0.75
3:D:519:VAL:HG13	3:D:544:TYR:CE1	2.22	0.75
3:D:890:VAL:HG11	3:D:922:LEU:HD12	1.68	0.75
1:G:178:ALA:HB3	1:G:198:ARG:HG3	1.69	0.75
1:G:185:ARG:NE	3:I:692:GLU:CG	2.39	0.75
2:H:309:TYR:C	2:H:313:LEU:HD13	2.11	0.75
2:H:363:SER:HB2	2:H:366:SER:HB2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1097:LEU:CD1	3:I:1451:ALA:CB	2.64	0.75
2:M:1086:ARG:HD3	3:N:88:TYR:CE2	2.21	0.75
2:M:1105:LYS:HD2	2:M:1107:ASN:ND2	2.02	0.75
7:X:3:ARG:O	7:X:4:GLU:HG3	1.86	0.75
1:B:150:TYR:HE1	1:B:170:VAL:HG12	1.51	0.74
2:C:965:GLU:HA	2:C:968:LEU:HD12	1.69	0.74
3:D:1264:GLU:OE2	3:D:1424:VAL:CG1	2.35	0.74
1:K:220:GLU:O	1:K:223:THR:HG22	1.87	0.74
2:M:114:PHE:CD2	2:M:114:PHE:O	2.40	0.74
2:M:129:ILE:CD1	2:M:134:ARG:CG	2.61	0.74
3:N:571:LYS:O	3:N:574:LEU:HB3	1.86	0.74
3:N:899:LEU:HD12	3:N:900:ILE:HG22	1.69	0.74
3:N:950:GLY:O	3:N:953:ASP:HB2	1.87	0.74
2:C:207:LEU:CD2	2:C:221:LEU:HD22	2.17	0.74
2:C:1046:ALA:HA	3:D:1472:ILE:HD11	1.69	0.74
2:C:1095:LEU:HD11	2:C:1097:LEU:CD2	2.17	0.74
3:D:124:GLU:HG3	3:D:128:TYR:HE1	1.51	0.74
3:D:134:VAL:HG23	3:D:455:ARG:O	1.87	0.74
3:D:706:PRO:HG3	5:P:15:DC:O2	1.86	0.74
3:I:135:LEU:HD13	3:I:148:GLU:O	1.85	0.74
3:I:202:VAL:HG11	3:I:445:ARG:HE	1.52	0.74
3:I:1109:GLU:HG2	3:I:1201:CYS:HA	1.69	0.74
2:C:185:LYS:HG2	2:C:190:LYS:CB	2.17	0.74
2:C:395:LYS:HG2	2:C:397:GLU:CG	2.17	0.74
3:D:1078:ARG:HG2	3:D:1078:ARG:NH1	2.00	0.74
1:G:190:THR:HB	3:I:722:GLU:OE1	1.87	0.74
2:H:26:TYR:CD2	2:H:30:LEU:HD11	2.22	0.74
2:H:836:GLY:HA3	2:H:1001:VAL:HG21	1.68	0.74
2:H:861:LEU:HD23	2:H:863:ASP:H	1.49	0.74
3:I:480:GLU:O	3:I:484:PRO:HD2	1.88	0.74
3:I:970:LYS:NZ	7:Y:113:LEU:HD23	2.01	0.74
3:I:1264:GLU:OE2	3:I:1424:VAL:CG1	2.35	0.74
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.69	0.74
2:M:1009:SER:HB3	3:N:651:GLU:O	1.88	0.74
3:N:432:TYR:HB3	3:N:450:TYR:HB2	1.69	0.74
3:N:1257:PRO:HA	3:N:1260:ILE:CD1	2.13	0.74
2:C:31:GLN:OE1	2:C:39:ARG:HA	1.87	0.74
2:C:557:ARG:HH11	2:C:560:MET:HG3	1.51	0.74
2:C:1032:PHE:O	2:C:1036:GLU:HB2	1.88	0.74
2:C:1105:LYS:HD2	2:C:1107:ASN:ND2	2.01	0.74
3:D:1312:LEU:HD11	3:D:1327:ARG:NH2	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:124:ASN:HD21	1:F:127:LEU:HD22	1.53	0.74
2:H:603:VAL:CA	2:H:613:VAL:HG12	2.13	0.74
2:H:946:ARG:HB3	2:H:946:ARG:HH11	1.52	0.74
3:I:131:LYS:HB2	3:I:568:ARG:CZ	2.16	0.74
3:I:1286:THR:HG22	3:I:1287:GLU:H	1.51	0.74
3:I:1397:LYS:HZ1	3:I:1432:LYS:NZ	1.84	0.74
2:C:211:LEU:HD23	2:C:221:LEU:HD23	1.69	0.74
3:D:690:ALA:O	3:D:694:VAL:HG23	1.86	0.74
3:D:1442:ASN:HD21	3:D:1444:THR:HB	1.50	0.74
1:F:220:GLU:O	1:F:223:THR:HG22	1.87	0.74
1:F:226:SER:O	1:F:228:PRO:HD3	1.86	0.74
2:H:18:LEU:HD13	2:H:590:ASP:CG	2.13	0.74
2:H:412:ALA:O	2:H:419:THR:HG23	1.87	0.74
2:H:557:ARG:HH11	2:H:560:MET:HG3	1.51	0.74
3:I:872:ARG:NE	1:L:162:ILE:HG21	2.02	0.74
1:L:165:ILE:HD13	1:L:165:ILE:N	2.03	0.74
3:N:1459:LEU:HB3	3:N:1465:ASN:OD1	1.87	0.74
2:C:442:GLU:HG2	2:C:454:SER:CB	2.17	0.74
3:D:86:ARG:CZ	3:D:86:ARG:HB3	2.15	0.74
3:D:1276:GLU:C	3:D:1277:ILE:HD12	2.13	0.74
2:H:1105:LYS:HZ3	2:H:1107:ASN:HB2	1.52	0.74
3:I:890:VAL:HG11	3:I:922:LEU:HD12	1.68	0.74
4:J:33:HIS:CD2	4:J:89:MET:HG2	2.23	0.74
1:K:86:VAL:CG1	1:K:124:ASN:HB2	2.16	0.74
2:M:965:GLU:HA	2:M:968:LEU:HD12	1.69	0.74
3:N:728:LEU:HD12	3:N:729:HIS:H	1.50	0.74
7:X:24:GLU:O	7:X:27:GLN:HG2	1.87	0.74
7:Y:89:VAL:CG1	7:Y:91:LEU:HD21	2.16	0.74
7:Z:114:ASP:OD2	7:Z:118:LYS:HE3	1.88	0.74
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.16	0.74
2:C:140:ILE:HD12	2:C:140:ILE:O	1.88	0.74
2:C:144:PRO:HA	2:C:163:ILE:O	1.88	0.74
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.13	0.74
3:D:685:ASP:O	3:D:689:ASP:CG	2.30	0.74
1:G:134:GLU:HG3	3:N:821:VAL:CG1	2.18	0.74
3:I:606:ILE:O	3:I:613:ARG:CG	2.36	0.74
3:I:1205:TYR:CD2	3:I:1215:VAL:HG21	2.23	0.74
3:I:1288:GLU:O	3:I:1307:LYS:HG2	1.86	0.74
4:J:37:ASN:N	4:J:37:ASN:HD22	1.85	0.74
2:M:368:THR:HB	2:M:369:PRO:CD	2.17	0.74
2:M:442:GLU:HG2	2:M:454:SER:CB	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:690:ALA:O	3:N:694:VAL:HG23	1.87	0.74
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.02	0.74
3:D:899:LEU:HD12	3:D:900:ILE:HG22	1.69	0.74
2:H:313:LEU:CB	2:H:320:HIS:CE1	2.69	0.74
2:H:1105:LYS:HD2	2:H:1107:ASN:ND2	2.02	0.74
3:I:520:LEU:HD23	3:I:525:ARG:HD2	1.69	0.74
3:I:521:PRO:O	3:I:524:LEU:HB2	1.87	0.74
3:I:899:LEU:HD12	3:I:900:ILE:HG22	1.70	0.74
3:I:984:THR:HG23	3:I:987:GLU:H	1.51	0.74
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.68	0.74
2:M:984:GLU:HG2	3:N:944:THR:O	1.88	0.74
3:N:115:LEU:HD12	3:N:502:PHE:HE1	1.51	0.74
2:C:565:GLN:HG2	2:C:995:MET:HE1	1.67	0.74
2:H:144:PRO:HA	2:H:163:ILE:O	1.88	0.74
2:H:221:LEU:C	2:H:223:ASP:H	1.93	0.74
2:H:707:ARG:HG3	2:H:826:TYR:CE1	2.23	0.74
3:I:95:LEU:HB2	3:I:515:GLU:O	1.88	0.74
3:I:139:GLY:HA3	3:I:162:ARG:CZ	2.17	0.74
3:I:1254:GLN:CG	3:I:1255:GLY:N	2.50	0.74
2:M:48:PHE:O	2:M:52:PHE:HB2	1.88	0.74
3:N:1078:ARG:HG2	3:N:1078:ARG:HH11	1.53	0.74
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.13	0.74
2:C:1067:TYR:CZ	2:C:1071:ILE:HD11	2.23	0.74
3:D:159:ARG:NH2	2:H:218:VAL:CG1	2.50	0.74
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.02	0.74
2:H:676:ILE:HG22	2:H:988:VAL:O	1.86	0.74
3:I:187:LYS:HG3	3:I:198:ARG:O	1.88	0.74
3:I:554:LEU:CD1	3:I:558:LEU:HD21	2.17	0.74
3:I:1359:GLN:O	7:Y:37:MET:HE2	1.87	0.74
2:M:1031:ARG:HH21	3:N:621:LYS:NZ	1.86	0.74
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.17	0.74
3:N:178:LEU:HD12	3:N:178:LEU:H	1.53	0.74
4:O:6:ILE:HA	4:O:9:LEU:HD12	1.69	0.74
7:X:103:GLN:HE21	7:X:105:VAL:HG13	1.50	0.74
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.68	0.73
2:C:185:LYS:CD	2:C:190:LYS:CG	2.58	0.73
3:D:52:PRO:O	3:D:86:ARG:HD3	1.88	0.73
3:D:804:LEU:HD23	3:D:804:LEU:H	1.53	0.73
1:F:86:VAL:CG1	1:F:124:ASN:HB2	2.16	0.73
2:H:144:PRO:HG2	2:H:265:ARG:HH11	1.53	0.73
1:K:124:ASN:HD21	1:K:127:LEU:HD22	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:56:VAL:HG22	1:L:142:VAL:HG12	1.70	0.73
1:L:58:ILE:HD12	1:L:58:ILE:N	2.03	0.73
2:M:86:LYS:O	2:M:87:ASP:HB2	1.86	0.73
2:M:334:ARG:NH1	2:M:415:PRO:HG2	2.00	0.73
2:M:988:VAL:HG12	3:N:948:THR:OG1	1.88	0.73
3:N:44:LEU:O	3:N:50:PHE:HE1	1.70	0.73
3:N:1209:LEU:HD21	4:O:16:LYS:HE3	1.68	0.73
1:B:178:ALA:HB3	1:B:198:ARG:HG3	1.69	0.73
2:C:207:LEU:HD22	2:C:221:LEU:HD22	1.70	0.73
2:C:516:ARG:HG3	3:D:1068:LEU:CD1	2.18	0.73
2:C:516:ARG:HG3	3:D:1068:LEU:HD11	1.70	0.73
2:H:1019:GLN:NE2	3:I:621:LYS:HG2	1.99	0.73
2:H:1067:TYR:CZ	2:H:1071:ILE:HD11	2.23	0.73
3:I:525:ARG:HB2	3:I:538:SER:HB3	1.68	0.73
2:M:109:LYS:NZ	2:M:367:LEU:O	2.21	0.73
3:N:1235:GLN:HG2	7:Z:48:LEU:CD1	2.18	0.73
2:C:199:VAL:HG21	2:C:238:LEU:CD1	2.17	0.73
3:D:126:VAL:CG1	3:D:132:TYR:CG	2.72	0.73
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.23	0.73
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.70	0.73
2:H:9:ILE:HG12	2:H:907:ASP:HB2	1.70	0.73
3:I:87:ARG:HG3	3:I:523:ASP:HB2	1.69	0.73
3:I:997:THR:HG21	7:Y:61:ARG:NH1	2.03	0.73
3:I:1114:THR:HG21	3:I:1195:GLN:HB3	1.68	0.73
3:I:1312:LEU:HD11	3:I:1327:ARG:NH2	2.02	0.73
3:I:1326:THR:HG22	3:I:1327:ARG:N	2.02	0.73
3:N:356:PRO:HB3	3:N:441:ARG:HA	1.70	0.73
3:N:480:GLU:O	3:N:484:PRO:HD2	1.87	0.73
1:B:94:LEU:HD11	1:B:119:ASP:HB2	1.68	0.73
2:C:21:ILE:H	2:C:21:ILE:CD1	2.01	0.73
2:C:91:GLN:HE22	2:C:383:ARG:HH12	1.36	0.73
2:C:872:ASN:HD21	2:C:874:LEU:HB2	1.54	0.73
2:C:1092:LEU:HD13	2:C:1099:VAL:CG2	2.10	0.73
3:D:142:LEU:HD23	3:D:146:PRO:HA	1.70	0.73
3:D:957:PRO:HG2	3:D:1007:VAL:HG22	1.70	0.73
3:D:1122:LEU:HD13	3:D:1185:GLU:HA	1.69	0.73
1:F:186:LEU:HD23	1:F:187:GLY:N	2.03	0.73
2:H:172:ILE:HD12	2:H:172:ILE:N	2.03	0.73
3:I:143:ASN:HB3	3:I:161:LEU:CD1	2.19	0.73
3:I:957:PRO:HG2	3:I:1007:VAL:HG22	1.70	0.73
3:I:969:ARG:HG3	3:I:970:LYS:N	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:190:THR:HB	3:N:722:GLU:OE1	1.88	0.73
2:M:187:ASN:O	2:M:188:LYS:HB3	1.87	0.73
2:M:449:ILE:HG21	3:N:1082:ALA:HA	1.70	0.73
3:N:103:TRP:NE1	3:N:604:THR:OG1	2.20	0.73
3:N:141:ILE:HG21	3:N:448:GLU:OE1	1.89	0.73
1:A:220:GLU:O	1:A:223:THR:HG22	1.87	0.73
2:C:1004:LYS:CD	3:D:744:GLN:HE22	1.92	0.73
2:H:316:GLY:C	2:H:318:PRO:HD3	2.14	0.73
2:H:1110:ASP:OD1	2:H:1112:PHE:CE1	2.41	0.73
3:I:407:VAL:HA	3:I:422:ALA:HA	1.71	0.73
3:I:1026:SER:C	3:I:1028:ALA:H	1.96	0.73
3:I:1369:GLU:O	3:I:1372:VAL:HG12	1.89	0.73
2:M:957:LYS:HD3	2:M:961:GLU:HB3	1.70	0.73
3:N:957:PRO:HG2	3:N:1007:VAL:HG22	1.70	0.73
3:N:1312:LEU:HD11	3:N:1327:ARG:NH2	2.03	0.73
1:B:66:SER:OG	1:B:75:VAL:HG21	1.89	0.73
2:C:260:LEU:CB	2:C:291:ALA:HB1	2.16	0.73
2:C:302:VAL:O	2:C:305:PRO:HD2	1.87	0.73
3:D:17:LYS:HG2	3:D:21:TRP:HE1	1.53	0.73
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.70	0.73
2:H:182:VAL:CB	2:H:193:LEU:CD2	2.65	0.73
2:H:879:ARG:NH2	7:Y:42:ASP:CB	2.51	0.73
2:H:1008:ARG:NH1	2:H:1010:THR:HA	2.04	0.73
1:K:18:ARG:O	1:K:207:PRO:HD3	1.88	0.73
2:M:1094:ALA:HB1	3:N:603:LEU:HD11	1.68	0.73
7:Y:82:VAL:CG2	7:Y:133:ARG:HH21	2.02	0.73
2:C:36:PRO:HA	2:C:39:ARG:HG3	1.71	0.73
2:C:676:ILE:HG23	3:D:948:THR:HB	1.71	0.73
3:D:165:LYS:NZ	3:D:199:LEU:HD22	2.04	0.73
1:G:86:VAL:HG12	1:G:124:ASN:ND2	2.03	0.73
3:I:1098:LEU:O	3:I:1102:THR:HG23	1.87	0.73
1:L:178:ALA:HB3	1:L:198:ARG:HG3	1.69	0.73
2:M:84:ARG:CZ	2:M:133:ASP:OD2	2.37	0.73
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.54	0.73
2:M:1056:LYS:HD3	3:N:623:VAL:CG1	2.18	0.73
2:M:1067:TYR:CZ	2:M:1071:ILE:HD11	2.24	0.73
3:N:676:MET:HE1	3:N:684:LYS:HE3	1.71	0.73
3:N:996:TRP:CG	3:N:1056:PRO:CG	2.72	0.73
7:X:114:ASP:OD2	7:X:118:LYS:HE3	1.88	0.73
7:X:134:VAL:CG2	7:X:154:ILE:HG13	2.19	0.73
1:A:186:LEU:HD23	1:A:187:GLY:N	2.03	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.23	0.73
3:D:187:LYS:HE2	3:D:199:LEU:HD12	1.69	0.73
3:D:827:ILE:H	3:D:827:ILE:HD12	1.54	0.73
3:D:908:LYS:HB2	3:D:1027:GLY:HA3	1.69	0.73
3:D:1146:GLY:HA2	3:D:1207:TYR:HB2	1.70	0.73
2:H:675:ALA:CA	2:H:989:VAL:HG12	2.18	0.73
2:H:794:PRO:HG2	2:H:1025:ALA:O	1.88	0.73
3:I:477:LEU:HD22	3:I:492:ALA:HB1	1.71	0.73
2:M:31:GLN:CG	2:M:34:VAL:CG2	2.67	0.73
2:C:47:ALA:O	2:C:50:GLU:HB3	1.88	0.73
3:D:205:TYR:OH	3:D:208:PRO:HB3	1.88	0.73
3:D:207:PHE:HE1	2:H:283:ILE:HG13	1.54	0.73
3:D:982:PHE:N	3:D:982:PHE:HD2	1.87	0.73
2:H:47:ALA:O	2:H:50:GLU:HB3	1.88	0.73
2:H:144:PRO:HB3	2:H:164:PRO:HA	1.71	0.73
2:H:195:LEU:HD12	2:H:234:ALA:HB1	1.68	0.73
3:I:12:LEU:CD2	3:I:104:PHE:CE1	2.61	0.73
3:I:908:LYS:CB	3:I:1027:GLY:HA3	2.17	0.73
1:L:85:LEU:HD12	1:L:86:VAL:N	2.03	0.73
3:N:50:PHE:CD2	3:N:522:PRO:HG3	2.24	0.73
3:N:187:LYS:HG3	3:N:199:LEU:HA	1.71	0.73
3:N:704:ARG:HD3	3:N:738:ALA:HB2	1.71	0.73
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.23	0.73
1:A:186:LEU:HD23	1:A:186:LEU:C	2.14	0.73
3:D:1263:PHE:O	3:D:1424:VAL:HG12	1.89	0.73
2:H:1056:LYS:HD3	3:I:623:VAL:HG12	1.68	0.73
2:H:1092:LEU:HD13	2:H:1099:VAL:CG2	2.10	0.73
2:M:334:ARG:HG2	2:M:338:GLU:CD	2.14	0.73
2:M:412:ALA:O	2:M:419:THR:HG23	1.89	0.73
3:N:165:LYS:O	3:N:165:LYS:HD3	1.88	0.73
3:N:477:LEU:HD22	3:N:492:ALA:HB1	1.71	0.73
3:N:1369:GLU:O	3:N:1372:VAL:HG12	1.89	0.73
7:Y:115:THR:CB	7:Y:116:PRO:HD3	2.19	0.73
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.53	0.72
1:F:54:THR:O	1:F:158:ILE:HD13	1.89	0.72
2:H:74:GLY:O	2:H:76:PRO:HD3	1.89	0.72
2:H:632:ASN:HB3	2:H:633:GLN:NE2	2.03	0.72
3:I:982:PHE:N	3:I:982:PHE:HD2	1.87	0.72
1:K:73:GLU:OE1	1:K:130:ALA:HA	1.88	0.72
2:M:9:ILE:O	2:M:9:ILE:HG13	1.88	0.72
3:N:17:LYS:HG2	3:N:21:TRP:HE1	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:190:GLU:HG2	3:N:196:VAL:HG22	1.70	0.72
2:C:1100:GLN:N	3:D:9:ARG:O	2.21	0.72
3:D:682:ASP:O	3:D:683:ILE:HB	1.88	0.72
3:D:1078:ARG:HG2	3:D:1078:ARG:HH11	1.53	0.72
3:D:1101:VAL:HG11	3:D:1424:VAL:HG23	1.69	0.72
3:D:1369:GLU:O	3:D:1372:VAL:HG12	1.89	0.72
2:H:957:LYS:HD3	2:H:961:GLU:HB3	1.71	0.72
2:H:1037:VAL:HG13	2:H:1049:LEU:CD1	2.19	0.72
3:I:41:ARG:O	3:I:42:ASP:HB2	1.87	0.72
3:I:143:ASN:HB3	3:I:161:LEU:HD11	1.71	0.72
3:I:203:ALA:HB1	3:I:393:ILE:CG2	2.18	0.72
2:M:217:LEU:CB	2:M:311:PHE:CD1	2.71	0.72
3:N:456:MET:CE	3:N:568:ARG:NH2	2.52	0.72
3:N:827:ILE:HD12	3:N:827:ILE:H	1.54	0.72
1:A:58:ILE:HD13	1:A:140:MET:CB	2.19	0.72
2:C:432:ARG:HH22	3:D:1047:LYS:HD3	1.53	0.72
3:D:800:LYS:NZ	3:D:804:LEU:HD22	2.04	0.72
1:G:39:PRO:O	1:G:43:ILE:HG12	1.89	0.72
1:G:106:PRO:HG3	1:G:134:GLU:HA	1.70	0.72
1:G:137:ARG:NH1	1:G:137:ARG:HB3	2.03	0.72
2:H:498:GLN:HA	2:H:498:GLN:NE2	2.04	0.72
2:H:872:ASN:HD21	2:H:874:LEU:HB2	1.54	0.72
1:K:54:THR:O	1:K:158:ILE:HD13	1.89	0.72
1:L:123:MET:C	1:L:125:PRO:HD3	2.14	0.72
2:M:872:ASN:HD21	2:M:874:LEU:HB2	1.54	0.72
1:B:73:GLU:OE1	1:B:130:ALA:HA	1.88	0.72
2:C:957:LYS:HD3	2:C:961:GLU:HB3	1.71	0.72
3:D:1114:THR:HG21	3:D:1195:GLN:HB3	1.70	0.72
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	1.72	0.72
3:D:1280:VAL:HA	3:D:1318:TYR:HA	1.71	0.72
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.69	0.72
1:F:18:ARG:HH22	1:F:88:ARG:HH21	1.37	0.72
1:F:24:VAL:HG22	1:F:196:THR:CG2	2.18	0.72
2:H:432:ARG:HH22	3:I:1047:LYS:CD	2.01	0.72
3:I:982:PHE:HA	7:Y:125:MET:HB2	1.72	0.72
2:M:576:ALA:HB3	2:M:900:ARG:HH11	1.53	0.72
1:A:124:ASN:HD21	1:A:127:LEU:HD22	1.53	0.72
3:D:432:TYR:HB3	3:D:450:TYR:HB2	1.71	0.72
3:D:687:VAL:HG13	3:D:688:TRP:CE3	2.25	0.72
1:G:20:TYR:HD2	1:G:21:GLY:H	1.36	0.72
2:H:1008:ARG:HH12	2:H:1010:THR:HA	1.52	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:17:LYS:HG2	3:I:21:TRP:HE1	1.53	0.72
2:M:557:ARG:HH21	2:M:879:ARG:HE	1.37	0.72
2:M:758:ARG:HB3	2:M:788:THR:O	1.89	0.72
2:M:859:PRO:O	2:M:867:VAL:HG22	1.89	0.72
2:M:946:ARG:HB3	2:M:946:ARG:HH11	1.52	0.72
1:B:58:ILE:N	1:B:58:ILE:HD12	2.04	0.72
2:C:165:LEU:CB	2:C:265:ARG:NH1	2.52	0.72
2:C:332:ARG:HG3	2:C:465:GLY:HA3	1.71	0.72
2:C:632:ASN:HB3	2:C:633:GLN:NE2	2.04	0.72
3:D:52:PRO:N	3:D:86:ARG:HD3	2.05	0.72
3:D:205:TYR:HD1	3:D:390:PRO:HG3	1.54	0.72
3:D:683:ILE:O	3:D:687:VAL:HG12	1.88	0.72
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.20	0.72
1:G:185:ARG:NH1	3:I:692:GLU:CB	2.53	0.72
2:H:56:GLU:HG2	2:H:356:ARG:HG2	1.72	0.72
2:H:266:ARG:CA	2:H:288:ARG:HD3	2.14	0.72
1:K:161:ARG:HB2	1:K:161:ARG:CZ	2.20	0.72
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.23	0.72
2:M:260:LEU:CB	2:M:291:ALA:HB1	2.18	0.72
2:M:265:ARG:HD3	2:M:267:TYR:CD1	2.25	0.72
2:M:984:GLU:CG	3:N:944:THR:O	2.38	0.72
3:N:982:PHE:N	3:N:982:PHE:HD2	1.86	0.72
3:N:1236:LEU:O	3:N:1237:THR:HG23	1.89	0.72
3:D:1137:ARG:NH2	3:D:1172:HIS:CD2	2.58	0.72
1:F:13:VAL:HG22	1:F:23:PHE:CD1	2.24	0.72
1:G:112:ARG:NH1	1:G:126:ASP:OD1	2.22	0.72
2:H:170:PRO:HD2	2:H:263:ASP:HB3	1.72	0.72
3:I:162:ARG:CD	3:I:452:ILE:HG21	2.17	0.72
3:I:827:ILE:H	3:I:827:ILE:HD12	1.54	0.72
3:I:1109:GLU:HG3	3:I:1217:ILE:HD12	1.71	0.72
2:M:69:LEU:HD21	2:M:99:GLN:NE2	2.05	0.72
3:N:176:ASP:HA	3:N:389:GLU:HA	1.72	0.72
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.20	0.72
7:X:155:HIS:O	7:X:156:GLY:C	2.32	0.72
7:Z:8:THR:HG23	7:Z:109:GLU:OE1	1.88	0.72
2:C:657:ASP:OD1	2:C:662:GLU:CA	2.38	0.72
2:C:988:VAL:HG12	3:D:948:THR:OG1	1.88	0.72
1:F:221:HIS:NE2	1:G:32:PHE:HE2	1.78	0.72
2:H:196:LEU:CD2	2:H:200:LEU:HD11	2.17	0.72
2:H:564:MET:CE	2:H:846:LYS:HE2	2.19	0.72
2:M:200:LEU:HD22	2:M:300:ASP:OD1	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:632:ASN:HB3	2:M:633:GLN:NE2	2.03	0.72
3:N:187:LYS:CB	3:N:200:ASP:HB2	2.17	0.72
3:D:520:LEU:CD1	3:D:521:PRO:HD2	2.20	0.72
2:H:524:VAL:HG12	2:H:525:SER:N	2.05	0.72
2:H:657:ASP:OD1	2:H:662:GLU:CA	2.38	0.72
3:I:1047:LYS:HB3	3:I:1048:PRO:CD	2.19	0.72
1:L:54:THR:HG22	1:L:156:HIS:CE1	2.24	0.72
2:M:217:LEU:CD1	2:M:311:PHE:CD1	2.70	0.72
2:M:697:ARG:HD2	2:M:699:PHE:HD1	1.53	0.72
3:N:181:ASP:HA	3:N:205:TYR:CD2	2.25	0.72
3:N:671:LYS:O	3:N:675:ARG:HG3	1.89	0.72
3:N:1197:ARG:HB3	3:N:1396:GLU:CD	2.15	0.72
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.70	0.72
3:D:159:ARG:HH22	2:H:218:VAL:HG11	1.51	0.72
3:D:179:VAL:HG22	3:D:183:GLU:OE2	1.89	0.72
3:D:1359:GLN:HB3	7:X:37:MET:HE1	1.71	0.72
1:F:186:LEU:HD23	1:F:186:LEU:C	2.14	0.72
1:F:218:LEU:HD23	1:G:222:LEU:CD2	2.20	0.72
2:H:193:LEU:HD13	2:H:193:LEU:H	1.53	0.72
2:H:408:ARG:HH21	2:H:455:LEU:HD12	1.54	0.72
2:H:474:VAL:HG21	2:H:479:VAL:HG12	1.72	0.72
3:I:495:ARG:O	3:I:499:VAL:HG23	1.90	0.72
3:I:704:ARG:HD3	3:I:738:ALA:HB2	1.71	0.72
3:I:1106:VAL:HG12	3:I:1107:VAL:N	2.04	0.72
1:K:62:LEU:HD12	1:K:62:LEU:N	2.04	0.72
2:M:79:PRO:HG2	2:M:82:GLU:CG	2.19	0.72
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.72	0.72
3:N:131:LYS:HG3	3:N:568:ARG:CD	2.09	0.72
3:N:365:ASP:H	3:N:379:ALA:HB3	1.54	0.72
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.72	0.72
1:A:54:THR:O	1:A:158:ILE:HD13	1.89	0.71
2:C:524:VAL:HG12	2:C:525:SER:N	2.04	0.71
2:C:946:ARG:HB3	2:C:946:ARG:HH11	1.53	0.71
3:D:1168:MET:HA	3:D:1168:MET:HE3	1.71	0.71
1:F:62:LEU:HD12	1:F:62:LEU:N	2.04	0.71
2:H:859:PRO:O	2:H:867:VAL:HG22	1.89	0.71
2:H:1048:THR:HG21	3:I:763:MET:HE1	1.70	0.71
3:I:160:GLU:HG2	3:I:165:LYS:HB2	1.71	0.71
1:K:67:THR:HG21	2:M:609:ASN:ND2	2.05	0.71
2:M:22:GLN:NE2	2:M:336:VAL:HG22	2.05	0.71
2:M:99:GLN:OE1	2:M:110:GLU:HG3	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:452:ILE:O	3:N:452:ILE:CD1	2.30	0.71
3:N:970:LYS:HZ1	7:Z:113:LEU:HG	1.54	0.71
1:B:20:TYR:HD2	1:B:21:GLY:H	1.36	0.71
3:D:158:TYR:CD1	3:D:162:ARG:CB	2.74	0.71
3:D:1197:ARG:HB3	3:D:1396:GLU:CD	2.15	0.71
2:H:988:VAL:HG11	3:I:949:ILE:O	1.89	0.71
2:H:1090:LYS:HD2	3:I:90:MET:SD	2.29	0.71
3:I:204:LEU:CD1	3:I:441:ARG:HH22	2.01	0.71
3:I:843:PHE:HE1	3:I:864:VAL:HG11	1.55	0.71
3:I:1263:PHE:O	3:I:1424:VAL:HG12	1.90	0.71
2:M:1099:VAL:CG2	3:N:10:ILE:HG12	2.19	0.71
3:N:495:ARG:O	3:N:499:VAL:HG23	1.90	0.71
3:N:1103:HIS:CD2	3:N:1463:LYS:HB2	2.25	0.71
7:Y:14:ARG:NH1	7:Y:14:ARG:HB3	2.04	0.71
1:A:23:PHE:CD2	1:A:211:LEU:HD22	2.25	0.71
2:C:148:PHE:HE1	2:C:309:TYR:CD2	2.07	0.71
2:C:689:VAL:HB	2:C:870:ILE:HG12	1.72	0.71
3:D:645:PRO:HD3	3:D:726:ILE:HG12	1.72	0.71
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.71	0.71
3:D:1041:LEU:O	3:D:1041:LEU:HD23	1.90	0.71
1:F:98:THR:CG2	1:F:141:GLU:HG3	2.20	0.71
2:H:260:LEU:HD23	2:H:260:LEU:C	2.15	0.71
3:I:1078:ARG:HG2	3:I:1078:ARG:HH11	1.52	0.71
3:I:1101:VAL:HG21	3:I:1424:VAL:HG23	1.72	0.71
2:M:722:ILE:O	2:M:722:ILE:HD13	1.89	0.71
2:M:1090:LYS:HA	2:M:1093:GLN:HG3	1.72	0.71
3:N:432:TYR:HB3	3:N:450:TYR:CD2	2.24	0.71
3:N:1263:PHE:O	3:N:1424:VAL:HG12	1.89	0.71
2:C:859:PRO:O	2:C:867:VAL:HG22	1.89	0.71
2:C:987:ILE:HD12	3:D:948:THR:CG2	2.19	0.71
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.71	0.71
3:D:783:ARG:HG2	3:D:784:ASP:H	1.55	0.71
1:F:18:ARG:O	1:F:207:PRO:HD3	1.91	0.71
1:G:59:GLU:HG3	1:G:60:ASP:H	1.54	0.71
1:G:185:ARG:CD	3:I:692:GLU:HG2	2.20	0.71
2:H:597:ALA:HB2	2:H:655:LEU:HD21	1.72	0.71
3:I:1286:THR:O	3:I:1287:GLU:HB2	1.90	0.71
3:N:817:GLU:O	3:N:821:VAL:HG23	1.90	0.71
7:Z:6:LYS:CD	7:Z:85:LEU:HD12	2.17	0.71
2:C:492:ASP:OD2	2:C:518:LYS:HG3	1.90	0.71
2:C:501:THR:CG2	2:C:513:VAL:HG13	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1090:LYS:HA	2:C:1093:GLN:HG3	1.72	0.71
3:D:87:ARG:HB2	3:D:524:LEU:HD12	1.72	0.71
3:D:1384:PRO:HG3	3:D:1389:LEU:HB3	1.72	0.71
2:H:675:ALA:HA	2:H:989:VAL:CG1	2.21	0.71
3:I:1147:ARG:HB3	3:I:1188:VAL:HG21	1.73	0.71
1:L:42:ARG:HG2	1:L:42:ARG:HH11	1.55	0.71
3:N:151:GLN:HG3	3:N:152:LEU:H	1.53	0.71
3:N:1111:ASP:OD1	3:N:1203:LYS:HD2	1.90	0.71
1:B:122:ILE:HD12	1:B:122:ILE:N	2.02	0.71
2:C:273:GLY:HA2	2:C:276:LYS:NZ	2.05	0.71
3:D:124:GLU:CG	3:D:128:TYR:HE1	2.02	0.71
1:G:75:VAL:O	1:G:79:ILE:HG23	1.90	0.71
2:H:1090:LYS:HA	2:H:1093:GLN:HG3	1.72	0.71
3:N:1041:LEU:O	3:N:1041:LEU:HD23	1.90	0.71
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.70	0.71
1:B:132:LEU:HD21	1:B:138:LEU:HB3	1.72	0.71
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.56	0.71
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.72	0.71
3:D:116:LEU:HD22	3:D:118:LEU:CD1	2.20	0.71
1:G:71:VAL:HG21	1:G:138:LEU:HD12	1.73	0.71
2:H:193:LEU:HD23	2:H:307:LEU:HD22	1.72	0.71
2:H:897:LEU:HB3	2:H:899:GLN:HE21	1.53	0.71
3:I:398:ALA:HB2	3:I:447:VAL:HG12	1.71	0.71
3:I:872:ARG:HE	1:L:162:ILE:HG21	1.56	0.71
3:I:1025:GLN:HA	3:I:1025:GLN:NE2	2.03	0.71
1:K:98:THR:CG2	1:K:141:GLU:HG3	2.21	0.71
2:M:265:ARG:HB3	2:M:267:TYR:CE2	2.25	0.71
2:M:997:LEU:C	2:M:999:HIS:H	1.99	0.71
3:N:211:VAL:O	3:N:213:VAL:HG23	1.91	0.71
3:N:623:VAL:HG12	3:N:624:ASP:O	1.90	0.71
2:C:64:LEU:HB2	2:C:359:MET:CG	2.20	0.71
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.17	0.71
2:C:997:LEU:C	2:C:999:HIS:H	1.98	0.71
3:D:168:THR:HG22	3:D:169:TYR:N	2.05	0.71
3:D:179:VAL:HG13	3:D:183:GLU:CD	2.15	0.71
3:I:26:VAL:CG2	3:I:93:ILE:HG12	2.21	0.71
3:I:139:GLY:O	3:I:147:VAL:HB	1.90	0.71
3:I:615:ARG:NE	3:I:619:LEU:HD21	2.05	0.71
3:I:817:GLU:O	3:I:821:VAL:HG23	1.91	0.71
1:L:41:ARG:NH1	1:L:177:VAL:HG23	2.03	0.71
3:N:676:MET:SD	3:N:684:LYS:CE	2.78	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1156:LEU:HD12	3:N:1176:LYS:HE3	1.71	0.71
3:N:1211:MET:CG	3:N:1212:ALA:H	2.00	0.71
1:A:26:GLU:OE2	1:A:194:LYS:HE3	1.90	0.71
1:A:62:LEU:HD12	1:A:62:LEU:N	2.04	0.71
2:C:182:VAL:CG2	2:C:193:LEU:HB3	2.20	0.71
2:C:195:LEU:HG	2:C:238:LEU:HG	1.73	0.71
2:C:282:GLY:C	2:C:283:ILE:HD13	2.15	0.71
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.25	0.71
2:C:564:MET:CE	2:C:846:LYS:HD2	2.20	0.71
3:D:159:ARG:HH22	2:H:218:VAL:CB	2.04	0.71
3:D:174:GLY:H	3:D:209:ARG:HH11	1.36	0.71
3:D:817:GLU:O	3:D:821:VAL:HG23	1.91	0.71
1:F:58:ILE:HD13	1:F:140:MET:CB	2.19	0.71
2:H:42:VAL:HG23	2:H:43:GLY:N	2.04	0.71
2:H:313:LEU:CA	2:H:320:HIS:ND1	2.54	0.71
3:I:408:GLU:OE2	3:I:409:VAL:HG23	1.91	0.71
3:I:645:PRO:HD3	3:I:726:ILE:HG12	1.72	0.71
3:I:734:GLU:OE1	7:Y:38:GLU:O	2.09	0.71
3:I:1453:ALA:O	3:I:1455:LYS:N	2.23	0.71
2:M:141:HIS:HB3	2:M:418:LEU:HB3	1.71	0.71
2:M:1031:ARG:HH21	3:N:621:LYS:HZ2	1.38	0.71
3:N:26:VAL:CG2	3:N:93:ILE:HG12	2.21	0.71
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.55	0.71
2:C:224:GLU:CB	2:C:228:ALA:CB	2.53	0.71
2:C:512:ARG:HA	2:C:523:ILE:HD11	1.72	0.71
2:C:879:ARG:CZ	7:X:42:ASP:OD1	2.37	0.71
3:D:54:LYS:HD2	3:D:55:ASP:H	1.54	0.71
3:D:181:ASP:O	3:D:204:LEU:HA	1.91	0.71
1:F:80:LEU:HD23	1:F:81:ASN:N	2.05	0.71
1:G:74:ASP:HB2	3:I:872:ARG:NH2	2.04	0.71
2:H:1081:VAL:CG2	2:H:1111:ILE:HG22	2.15	0.71
3:I:561:GLY:O	3:I:563:PRO:HD3	1.90	0.71
3:I:606:ILE:HD11	3:I:613:ARG:HE	1.54	0.71
1:L:20:TYR:HD2	1:L:21:GLY:H	1.36	0.71
1:L:187:GLY:O	3:N:688:TRP:CD1	2.41	0.71
2:M:66:LEU:HD22	2:M:372:LEU:CD2	2.20	0.71
2:M:1045:ALA:HB1	2:M:1048:THR:HB	1.72	0.71
2:M:1105:LYS:HZ3	2:M:1107:ASN:HB2	1.54	0.71
3:N:165:LYS:HZ2	3:N:199:LEU:HD22	1.55	0.71
3:N:1029:ARG:HH11	3:N:1029:ARG:HB3	1.56	0.71
7:Z:127:LYS:C	7:Z:127:LYS:HD3	2.16	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:292:ARG:HG2	2:C:299:LYS:HB3	1.73	0.70
2:C:347:GLY:HA3	2:C:378:LEU:HD12	1.73	0.70
2:C:720:GLU:HA	2:C:759:THR:O	1.91	0.70
3:D:26:VAL:CG2	3:D:93:ILE:HG12	2.21	0.70
2:H:167:LYS:HD2	2:H:415:PRO:O	1.90	0.70
3:I:127:LEU:HD12	3:I:457:GLY:HA2	1.72	0.70
2:M:270:GLY:O	2:M:274:ARG:HD3	1.91	0.70
2:M:1008:ARG:HH12	2:M:1010:THR:HA	1.56	0.70
3:N:161:LEU:HA	3:N:397:LYS:HZ2	1.56	0.70
7:Y:90:GLU:C	7:Y:91:LEU:HD23	2.16	0.70
3:D:23:TYR:O	3:D:49:ILE:HG23	1.90	0.70
3:D:414:ARG:HB3	3:D:450:TYR:CE1	2.26	0.70
3:I:939:PHE:O	3:I:942:SER:HB3	1.91	0.70
1:K:183:ASP:O	1:K:192:LEU:O	2.09	0.70
2:M:172:ILE:HG23	2:M:186:VAL:CG1	2.20	0.70
2:M:242:LEU:HD12	2:M:254:VAL:HG11	1.73	0.70
2:M:253:ALA:O	2:M:256:TYR:HB3	1.91	0.70
2:M:401:LEU:HD13	2:M:587:VAL:HG11	1.71	0.70
2:M:498:GLN:OE1	3:N:1068:LEU:HD12	1.90	0.70
3:N:166:GLN:NE2	3:N:394:LEU:HB2	2.06	0.70
3:N:617:ASN:ND2	3:N:1467:ILE:HA	2.05	0.70
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.92	0.70
3:N:1487:VAL:HG12	3:N:1488:ASP:N	2.04	0.70
7:Y:89:VAL:HG11	7:Y:91:LEU:HD21	1.73	0.70
3:D:127:LEU:CD1	3:D:461:ILE:HD11	2.21	0.70
3:D:181:ASP:HA	3:D:205:TYR:HD2	1.56	0.70
4:E:25:LYS:HA	4:E:28:GLN:CD	2.16	0.70
2:H:260:LEU:CB	2:H:291:ALA:HB1	2.19	0.70
2:H:1106:ASP:OD1	3:I:7:LYS:HD3	1.90	0.70
2:M:39:ARG:HE	2:M:45:GLN:HE22	1.31	0.70
2:M:52:PHE:O	2:M:54:ILE:N	2.24	0.70
2:M:496:ILE:N	2:M:496:ILE:HD12	2.06	0.70
2:M:524:VAL:HG12	2:M:525:SER:N	2.04	0.70
2:M:657:ASP:OD1	2:M:662:GLU:CA	2.38	0.70
3:N:762:GLN:NE2	4:O:20:THR:OG1	2.24	0.70
1:B:165:ILE:HD13	1:B:165:ILE:N	2.06	0.70
2:C:12:VAL:HG22	2:C:13:ILE:HG23	1.74	0.70
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.03	0.70
2:C:141:HIS:HB3	2:C:418:LEU:HD23	1.73	0.70
2:C:148:PHE:CE1	2:C:309:TYR:HD2	2.09	0.70
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.07	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:74:ASP:HB2	1:L:162:ILE:HB	1.72	0.70
2:H:73:LEU:HB2	2:H:93:PRO:O	1.92	0.70
2:H:1082:PRO:HG2	3:I:1469:GLY:HA3	1.73	0.70
3:I:115:LEU:HD12	3:I:502:PHE:CE1	2.24	0.70
3:I:116:LEU:HD22	3:I:118:LEU:CG	2.15	0.70
3:I:166:GLN:HG2	3:I:396:VAL:HG12	1.72	0.70
3:I:1438:ALA:O	3:I:1443:THR:HG22	1.90	0.70
1:L:27:PRO:C	1:L:28:LEU:HD23	2.17	0.70
3:N:205:TYR:HD1	3:N:390:PRO:HB3	1.55	0.70
3:N:949:ILE:N	3:N:949:ILE:HD12	2.05	0.70
7:Z:13:GLU:HG2	7:Z:17:GLN:HE21	1.56	0.70
2:C:447:ALA:O	2:C:448:ASN:HB2	1.91	0.70
2:C:681:GLY:C	3:D:635:PRO:HG3	2.17	0.70
2:C:1004:LYS:O	3:D:629:SER:HA	1.90	0.70
2:C:1105:LYS:HZ3	2:C:1107:ASN:HB2	1.56	0.70
3:D:781:PRO:HB2	3:D:786:ILE:HD11	1.73	0.70
4:E:73:LEU:H	4:E:73:LEU:HD12	1.55	0.70
1:F:13:VAL:HG22	1:F:23:PHE:HD1	1.57	0.70
2:H:64:LEU:HB2	2:H:359:MET:CG	2.20	0.70
2:H:261:ILE:HD13	2:H:262:ALA:H	1.56	0.70
2:H:496:ILE:H	2:H:496:ILE:HD12	1.57	0.70
2:H:996:LYS:NZ	2:H:1000:MET:SD	2.62	0.70
2:H:1015:LEU:HD12	2:H:1015:LEU:N	2.06	0.70
3:I:1156:LEU:HD12	3:I:1176:LYS:HE3	1.73	0.70
2:M:154:ARG:NH1	2:M:178:PRO:HD3	2.05	0.70
2:M:516:ARG:HG3	3:N:1068:LEU:HD11	1.74	0.70
2:M:571:LEU:HD11	2:M:701:THR:N	2.06	0.70
2:M:1012:PRO:HD2	2:M:1026:GLN:CG	2.21	0.70
3:N:809:PRO:O	3:N:812:ALA:HB3	1.90	0.70
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.20	0.70
3:D:631:ILE:O	3:D:631:ILE:HD13	1.92	0.70
2:H:15:LEU:H	2:H:15:LEU:CD1	2.05	0.70
2:H:170:PRO:HD3	2:H:263:ASP:CG	2.17	0.70
2:H:512:ARG:HA	2:H:523:ILE:HD11	1.72	0.70
3:I:1041:LEU:O	3:I:1041:LEU:HD23	1.90	0.70
2:M:56:GLU:C	2:M:56:GLU:CD	2.59	0.70
2:M:100:LEU:O	2:M:100:LEU:HD12	1.92	0.70
3:N:362:GLU:O	3:N:379:ALA:HB1	1.91	0.70
3:N:1209:LEU:HD21	4:O:16:LYS:HZ2	1.57	0.70
3:N:1468:LEU:CD1	3:N:1470:ARG:HE	2.05	0.70
1:A:150:TYR:HB2	2:C:696:LYS:HE2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:27:PRO:C	1:B:28:LEU:HD23	2.17	0.70
1:B:55:SER:OG	1:B:158:ILE:HB	1.90	0.70
1:B:106:PRO:HG3	1:B:134:GLU:HA	1.74	0.70
2:C:191:PHE:HZ	2:C:196:LEU:HB2	1.57	0.70
2:C:593:ALA:HB1	2:C:659:PRO:HD2	1.74	0.70
2:C:676:ILE:HG22	2:C:988:VAL:O	1.92	0.70
2:C:949:LYS:HD3	3:D:796:ARG:NH2	2.07	0.70
2:C:1090:LYS:HE3	3:D:90:MET:HG2	1.74	0.70
2:H:344:PHE:CE2	2:H:378:LEU:HD21	2.26	0.70
2:H:472:ARG:HD2	2:H:480:THR:O	1.91	0.70
2:H:997:LEU:C	2:H:999:HIS:H	1.99	0.70
2:H:1084:SER:CB	3:I:617:ASN:OD1	2.37	0.70
3:I:1197:ARG:HB3	3:I:1396:GLU:CD	2.15	0.70
3:I:1472:ILE:HG22	3:I:1473:PRO:HD2	1.74	0.70
1:K:54:THR:HG22	1:K:158:ILE:HD11	1.73	0.70
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.72	0.70
3:N:631:ILE:HD13	3:N:631:ILE:O	1.92	0.70
3:N:680:GLN:CG	3:N:682:ASP:O	2.36	0.70
3:N:982:PHE:N	3:N:982:PHE:CD2	2.60	0.70
3:N:992:ILE:HD12	3:N:1054:GLU:OE2	1.91	0.70
3:N:1122:LEU:N	3:N:1122:LEU:HD12	2.06	0.70
3:D:126:VAL:CG1	3:D:132:TYR:HB2	2.21	0.70
3:D:141:ILE:HD13	3:D:142:LEU:N	2.06	0.70
3:D:158:TYR:HD1	3:D:162:ARG:CG	2.04	0.70
3:D:348:GLN:H	3:D:351:MET:HE2	1.55	0.70
1:F:170:VAL:HG23	1:F:170:VAL:O	1.91	0.70
1:G:173:PRO:O	1:G:201:THR:HG22	1.92	0.70
3:I:906:GLN:HB3	3:I:911:LEU:HD11	1.74	0.70
2:M:564:MET:CE	2:M:846:LYS:HE2	2.10	0.70
2:M:911:GLU:OE1	3:N:951:ILE:CG1	2.39	0.70
3:N:347:VAL:HG22	3:N:368:VAL:HG11	1.72	0.70
3:N:643:GLY:O	3:N:726:ILE:HG23	1.92	0.70
1:A:98:THR:CG2	1:A:141:GLU:HG3	2.21	0.70
2:C:89:THR:HG21	2:C:383:ARG:NH2	2.05	0.70
3:D:484:PRO:HB3	3:D:488:ARG:HE	1.56	0.70
3:D:1312:LEU:CD1	3:D:1327:ARG:NH2	2.55	0.70
3:I:126:VAL:O	3:I:130:SER:CB	2.32	0.70
2:M:101:ILE:CA	2:M:108:ILE:HG12	2.22	0.70
2:M:1092:LEU:HD13	2:M:1099:VAL:CG2	2.10	0.70
3:N:18:ILE:CG2	3:N:518:PRO:HG3	2.21	0.70
3:N:561:GLY:O	3:N:563:PRO:HD2	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:645:PRO:HD3	3:N:726:ILE:HG12	1.72	0.70
3:N:1312:LEU:CD1	3:N:1327:ARG:NH2	2.55	0.70
7:Z:14:ARG:HH11	7:Z:14:ARG:CB	2.00	0.70
2:C:136:ILE:HD12	2:C:136:ILE:N	2.06	0.70
2:C:516:ARG:HE	3:D:1068:LEU:HD13	1.57	0.70
2:C:611:ILE:CD1	2:C:625:LEU:HD21	2.22	0.70
2:C:729:LEU:HG	2:C:729:LEU:O	1.92	0.70
3:D:50:PHE:CD2	3:D:522:PRO:CG	2.75	0.70
3:D:484:PRO:HB3	3:D:488:ARG:HG3	1.74	0.70
3:D:643:GLY:O	3:D:726:ILE:HG23	1.92	0.70
3:D:843:PHE:HE1	3:D:864:VAL:HG11	1.56	0.70
2:H:185:LYS:CD	2:H:190:LYS:HG2	2.15	0.70
2:H:258:TYR:CD2	2:H:290:LEU:HD11	2.26	0.70
2:H:322:VAL:HG23	2:H:322:VAL:O	1.92	0.70
2:H:906:PHE:CE1	3:I:1067:VAL:HA	2.27	0.70
3:I:696:HIS:CD2	4:J:58:PRO:HB3	2.26	0.70
1:L:33:GLY:O	1:L:195:LEU:HD22	1.92	0.70
2:M:1014:SER:HB2	2:M:1021:LEU:HD13	1.73	0.70
2:M:1111:ILE:HG12	2:M:1112:PHE:N	2.05	0.70
3:N:584:ASN:HB2	3:N:602:SER:HB3	1.74	0.70
3:N:676:MET:SD	3:N:684:LYS:HE3	2.32	0.70
3:N:774:SER:HB3	3:N:1362:LYS:O	1.91	0.70
1:B:173:PRO:O	1:B:201:THR:HG22	1.92	0.69
2:C:64:LEU:HB2	2:C:359:MET:HG3	1.74	0.69
3:D:87:ARG:HB3	3:D:523:ASP:HB2	0.78	0.69
3:D:154:THR:HG23	3:D:157:GLU:OE2	1.92	0.69
3:I:166:GLN:NE2	3:I:394:LEU:HD12	2.07	0.69
3:I:804:LEU:HB2	3:I:831:GLY:HA2	1.73	0.69
1:L:185:ARG:CZ	3:N:692:GLU:CG	2.62	0.69
3:N:108:VAL:CB	3:N:109:PRO:HD3	2.22	0.69
3:N:126:VAL:O	3:N:130:SER:HB3	1.91	0.69
3:N:939:PHE:O	3:N:942:SER:HB3	1.92	0.69
3:N:1292:VAL:HG11	3:N:1325:LEU:HG	1.74	0.69
2:C:1030:GLN:NE2	3:D:628:ARG:HG2	2.07	0.69
3:D:44:LEU:O	3:D:50:PHE:CE1	2.45	0.69
3:D:734:GLU:OE1	7:X:38:GLU:O	2.09	0.69
3:D:980:MET:HB3	3:D:982:PHE:CE2	2.27	0.69
4:E:36:LYS:NZ	4:E:36:LYS:CA	2.55	0.69
1:G:122:ILE:HD12	1:G:122:ILE:N	2.07	0.69
1:G:185:ARG:HH11	3:I:692:GLU:HB3	1.54	0.69
2:H:442:GLU:HG2	2:H:454:SER:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1091:GLU:HB3	3:I:607:LEU:HD21	1.72	0.69
3:I:44:LEU:O	3:I:522:PRO:HG2	1.90	0.69
3:I:949:ILE:HD11	3:I:1023:MET:HE1	1.74	0.69
3:I:1277:ILE:HD13	3:I:1301:LYS:HB2	1.74	0.69
1:K:58:ILE:HD13	1:K:140:MET:CB	2.19	0.69
2:M:191:PHE:HD2	2:M:195:LEU:HD23	1.57	0.69
2:M:408:ARG:HH21	2:M:455:LEU:HD12	1.55	0.69
2:M:447:ALA:O	2:M:448:ASN:HB2	1.91	0.69
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.57	0.69
3:D:484:PRO:CB	3:D:488:ARG:HG3	2.23	0.69
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.92	0.69
3:D:1442:ASN:ND2	3:D:1444:THR:HB	2.07	0.69
3:D:1453:ALA:O	3:D:1455:LYS:N	2.25	0.69
1:F:54:THR:HG22	1:F:158:ILE:HD11	1.74	0.69
1:G:80:LEU:CD2	3:I:867:ARG:HB2	2.21	0.69
2:H:9:ILE:HG12	2:H:907:ASP:CB	2.21	0.69
2:H:101:ILE:HD13	2:H:108:ILE:HG23	1.73	0.69
2:M:588:VAL:HG21	2:M:664:GLY:O	1.92	0.69
7:Y:127:LYS:C	7:Y:127:LYS:HD3	2.18	0.69
1:B:152:PRO:HG2	3:D:857:ILE:CD1	2.22	0.69
2:C:15:LEU:HD12	2:C:15:LEU:H	1.57	0.69
2:C:885:ILE:HG13	3:D:949:ILE:CG2	2.23	0.69
2:C:1036:GLU:HG3	3:D:707:THR:OG1	1.92	0.69
3:D:111:LYS:HG2	3:D:1452:ILE:CD1	2.23	0.69
3:D:159:ARG:HH22	2:H:218:VAL:CG1	2.06	0.69
3:D:495:ARG:O	3:D:499:VAL:HG23	1.90	0.69
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.74	0.69
3:D:1102:THR:OG1	3:D:1226:ALA:HB2	1.92	0.69
2:H:242:LEU:CD1	2:H:254:VAL:HG11	2.22	0.69
3:I:465:LEU:HD21	3:I:509:PRO:HB2	1.75	0.69
3:I:1273:VAL:HG22	3:I:1326:THR:OG1	1.92	0.69
4:J:41:GLU:O	4:J:45:ARG:HD2	1.93	0.69
1:L:185:ARG:NH1	3:N:692:GLU:HB3	2.07	0.69
2:M:80:GLN:HG2	2:M:90:TYR:CD2	2.27	0.69
3:N:134:VAL:O	3:N:454:ALA:HB1	1.92	0.69
3:N:394:LEU:HD23	3:N:394:LEU:H	1.56	0.69
3:N:639:LEU:CD1	3:N:766:ALA:HB2	2.22	0.69
2:C:182:VAL:HG11	2:C:193:LEU:CB	2.23	0.69
3:D:133:ILE:HG22	3:D:134:VAL:N	2.06	0.69
4:E:41:GLU:O	4:E:45:ARG:HD2	1.93	0.69
1:F:24:VAL:HG22	1:F:196:THR:HG22	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1036:GLU:N	2:H:1036:GLU:OE1	2.25	0.69
2:H:1102:LEU:N	3:I:7:LYS:O	2.25	0.69
3:I:160:GLU:HG2	3:I:165:LYS:CB	2.21	0.69
3:I:982:PHE:N	3:I:982:PHE:CD2	2.60	0.69
1:L:173:PRO:O	1:L:201:THR:HG22	1.92	0.69
2:M:69:LEU:HD21	2:M:99:GLN:HE21	1.57	0.69
2:M:211:LEU:HD23	2:M:221:LEU:CD2	2.22	0.69
2:M:243:ARG:HB3	2:M:244:PRO:CD	2.16	0.69
2:M:1095:LEU:HB2	3:N:101:HIS:CE1	2.27	0.69
3:N:50:PHE:CE2	3:N:522:PRO:HG3	2.27	0.69
3:N:465:LEU:HD21	3:N:509:PRO:HB2	1.75	0.69
3:N:681:ARG:HG3	3:N:682:ASP:N	2.07	0.69
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.75	0.69
3:N:1256:LEU:HG	3:N:1260:ILE:CD1	2.21	0.69
2:C:364:GLU:O	2:C:367:LEU:HG	1.91	0.69
2:C:877:PRO:HG3	3:D:1023:MET:SD	2.32	0.69
2:C:879:ARG:NE	7:X:42:ASP:CG	2.51	0.69
2:C:1012:PRO:HD2	2:C:1026:GLN:CG	2.22	0.69
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.22	0.69
3:D:352:ASN:OD1	2:H:284:ARG:NH2	2.25	0.69
1:G:74:ASP:CB	3:I:872:ARG:HH22	2.04	0.69
2:H:564:MET:CE	2:H:846:LYS:CE	2.70	0.69
2:H:906:PHE:CZ	3:I:1067:VAL:HA	2.28	0.69
3:I:119:SER:HB2	3:I:123:LEU:CB	2.19	0.69
3:I:415:VAL:HG13	3:I:419:ASP:HB2	1.75	0.69
3:I:980:MET:HB3	3:I:982:PHE:CE2	2.27	0.69
4:J:54:LEU:HA	4:J:58:PRO:HG2	1.74	0.69
2:M:512:ARG:HA	2:M:523:ILE:HD11	1.72	0.69
2:M:723:THR:HG23	2:M:725:ASP:H	1.58	0.69
3:N:1025:GLN:HE21	3:N:1025:GLN:HA	1.55	0.69
2:C:603:VAL:HG13	2:C:613:VAL:HG12	1.74	0.69
3:D:939:PHE:O	3:D:942:SER:HB3	1.92	0.69
3:D:1146:GLY:CA	3:D:1207:TYR:CB	2.69	0.69
4:J:54:LEU:HD23	4:J:58:PRO:CD	2.23	0.69
2:M:31:GLN:HG3	2:M:34:VAL:CG2	2.22	0.69
3:N:171:LEU:HD21	3:N:175:VAL:HB	1.72	0.69
3:N:980:MET:HB3	3:N:982:PHE:CE2	2.27	0.69
3:N:1283:ILE:HD12	3:N:1315:ASP:CG	2.17	0.69
7:Y:57:ARG:HB2	7:Y:57:ARG:HH21	1.56	0.69
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.92	0.69
3:D:1211:MET:CG	3:D:1212:ALA:H	2.00	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.93	0.69
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.75	0.69
1:G:27:PRO:C	1:G:28:LEU:HD23	2.17	0.69
2:H:129:ILE:HG22	2:H:130:ASN:N	2.07	0.69
2:H:187:ASN:O	2:H:188:LYS:HB3	1.90	0.69
2:H:276:LYS:HA	2:H:280:LYS:HD2	1.75	0.69
2:H:374:ASN:HD22	2:H:374:ASN:H	1.40	0.69
2:H:987:ILE:HD11	3:I:946:GLY:CA	2.22	0.69
3:I:982:PHE:CG	7:Y:125:MET:SD	2.86	0.69
3:I:1442:ASN:ND2	3:I:1445:HIS:H	1.91	0.69
3:I:1462:LEU:HD22	3:I:1472:ILE:CG2	2.23	0.69
1:K:11:PHE:HB2	1:K:25:LEU:HD13	1.75	0.69
1:K:75:VAL:O	1:K:79:ILE:HG23	1.92	0.69
2:M:135:VAL:HG11	2:M:407:LYS:HA	1.75	0.69
2:M:571:LEU:HD21	2:M:699:PHE:O	1.92	0.69
2:M:754:ILE:HD12	2:M:754:ILE:H	1.57	0.69
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.57	0.69
3:N:116:LEU:CD2	3:N:118:LEU:HG	2.18	0.69
3:N:415:VAL:HG13	3:N:419:ASP:HB2	1.75	0.69
3:N:432:TYR:CG	3:N:450:TYR:HD2	2.11	0.69
3:N:1124:GLN:OE1	3:N:1135:ARG:HA	1.92	0.69
3:N:1359:GLN:HE22	7:Z:52:LYS:CD	2.06	0.69
3:N:1489:GLN:O	3:N:1493:LYS:HG2	1.93	0.69
1:A:42:ARG:NH1	1:B:34:VAL:HG12	2.07	0.69
2:C:885:ILE:HG13	3:D:949:ILE:HG22	1.75	0.69
2:H:89:THR:HA	2:H:129:ILE:O	1.92	0.69
2:H:580:MET:SD	2:H:584:GLU:HG3	2.33	0.69
2:H:1074:GLU:HG2	2:H:1075:ASP:N	1.96	0.69
3:I:452:ILE:O	3:I:452:ILE:HD13	1.93	0.69
3:I:1123:PHE:HE2	3:I:1184:GLN:HA	1.58	0.69
1:K:170:VAL:HG23	1:K:170:VAL:O	1.91	0.69
2:M:52:PHE:CZ	2:M:98:LEU:CG	2.73	0.69
2:M:260:LEU:HD23	2:M:260:LEU:C	2.18	0.69
2:M:987:ILE:CG2	3:N:948:THR:HG21	2.13	0.69
3:N:379:ALA:O	3:N:380:GLU:HG3	1.92	0.69
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.74	0.69
7:Y:83:ILE:HD13	7:Y:89:VAL:HG21	1.75	0.69
1:A:31:GLY:N	1:A:193:ASP:OD1	2.23	0.69
1:A:161:ARG:HB2	1:A:161:ARG:CZ	2.20	0.69
2:C:361:MET:HE1	3:I:1317:ASP:HB2	1.75	0.69
2:C:1019:GLN:NE2	3:D:621:LYS:HG3	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:116:LEU:O	3:D:117:ASP:HB3	1.93	0.69
3:D:403:PHE:HB2	3:D:423:ASP:OD1	1.93	0.69
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.75	0.69
1:F:7:LYS:HE2	1:F:7:LYS:O	1.92	0.69
1:F:62:LEU:HD12	1:F:62:LEU:H	1.58	0.69
1:F:218:LEU:CD2	1:G:222:LEU:HD21	2.23	0.69
1:G:41:ARG:HG3	1:G:177:VAL:CG2	2.22	0.69
2:H:565:GLN:HE21	2:H:842:ARG:CG	2.02	0.69
2:H:863:ASP:OD1	2:H:865:THR:HG22	1.93	0.69
2:H:987:ILE:HD11	3:I:946:GLY:HA2	1.73	0.69
3:I:127:LEU:O	3:I:457:GLY:HA2	1.92	0.69
3:I:643:GLY:O	3:I:726:ILE:HG23	1.92	0.69
3:I:1280:VAL:HA	3:I:1318:TYR:HA	1.74	0.69
1:L:62:LEU:HD12	1:L:62:LEU:H	1.57	0.69
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.74	0.69
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.57	0.69
3:N:1261:GLU:OE1	3:N:1268:PRO:HA	1.93	0.69
2:C:101:ILE:HG23	2:C:108:ILE:HG12	1.75	0.68
3:D:52:PRO:C	3:D:86:ARG:HD3	2.18	0.68
3:D:996:TRP:CG	3:D:1056:PRO:HG2	2.28	0.68
3:D:1288:GLU:O	3:D:1289:LYS:HG3	1.93	0.68
1:G:87:VAL:HG21	1:G:144:VAL:HG11	1.76	0.68
2:H:395:LYS:HD3	2:H:397:GLU:OE2	1.93	0.68
2:H:497:ALA:HA	2:H:515:ALA:HA	1.75	0.68
1:K:11:PHE:HE1	1:K:23:PHE:HB3	1.58	0.68
2:M:129:ILE:O	2:M:131:GLY:N	2.26	0.68
2:M:261:ILE:H	2:M:261:ILE:CD1	2.04	0.68
2:M:309:TYR:O	2:M:313:LEU:HB2	1.92	0.68
3:N:1481:VAL:CG1	4:O:18:ARG:HA	2.17	0.68
4:O:33:HIS:CG	4:O:89:MET:HG2	2.28	0.68
2:C:984:GLU:HG2	3:D:944:THR:O	1.94	0.68
2:C:996:LYS:NZ	2:C:1000:MET:SD	2.64	0.68
3:D:783:ARG:NH1	7:X:41:ASP:HB2	2.09	0.68
1:F:161:ARG:HB2	1:F:161:ARG:CZ	2.20	0.68
2:H:113:VAL:O	2:H:115:LEU:HD23	1.93	0.68
2:H:1045:ALA:HB1	2:H:1048:THR:HB	1.75	0.68
2:H:1060:ILE:HD11	3:I:85:VAL:H	1.56	0.68
3:I:153:LEU:HD13	3:I:158:TYR:HB2	1.75	0.68
3:I:631:ILE:O	3:I:631:ILE:HD13	1.92	0.68
3:I:799:LYS:HD3	3:I:826:PRO:HG2	1.74	0.68
3:I:1312:LEU:CD1	3:I:1327:ARG:NH2	2.55	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:100:LEU:C	2:M:108:ILE:HG23	2.18	0.68
2:M:184:MET:HB2	2:M:193:LEU:HG	1.73	0.68
2:M:224:GLU:O	2:M:228:ALA:HB3	1.93	0.68
2:M:357:GLU:O	2:M:360:LEU:HD23	1.93	0.68
2:M:516:ARG:HE	3:N:1068:LEU:HD13	1.57	0.68
3:N:780:LYS:NZ	7:Z:38:GLU:HB3	2.08	0.68
3:N:881:LEU:HD21	3:N:941:PHE:CZ	2.28	0.68
1:B:33:GLY:O	1:B:195:LEU:HD22	1.93	0.68
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.74	0.68
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.56	0.68
2:C:408:ARG:NH2	2:C:455:LEU:HD11	2.08	0.68
2:C:580:MET:SD	2:C:584:GLU:HG3	2.33	0.68
2:C:950:LEU:HD12	2:C:952:LEU:HD21	1.75	0.68
3:D:1111:ASP:OD1	3:D:1203:LYS:HD2	1.93	0.68
1:F:24:VAL:HG13	1:F:196:THR:HG22	1.76	0.68
3:N:81:THR:HG21	3:N:85:VAL:HG11	1.76	0.68
3:N:406:ASP:O	3:N:422:ALA:HB1	1.93	0.68
2:C:258:TYR:CE2	2:C:290:LEU:HD11	2.29	0.68
2:C:673:LEU:HD22	2:C:867:VAL:HG12	1.75	0.68
3:D:881:LEU:HD21	3:D:941:PHE:CZ	2.28	0.68
3:D:1101:VAL:CG1	3:D:1424:VAL:O	2.41	0.68
3:D:1105:ILE:N	3:D:1105:ILE:HD12	2.09	0.68
4:E:35:PHE:C	4:E:36:LYS:HZ3	2.00	0.68
3:I:143:ASN:CA	3:I:161:LEU:HD11	2.24	0.68
3:I:615:ARG:HG3	3:I:619:LEU:CD2	2.23	0.68
3:I:799:LYS:HD3	3:I:799:LYS:O	1.93	0.68
3:I:1166:LEU:HD23	3:I:1166:LEU:H	1.59	0.68
2:M:580:MET:SD	2:M:584:GLU:HG3	2.34	0.68
2:M:854:PRO:HB2	2:M:856:GLU:CG	2.24	0.68
3:N:128:TYR:CE2	3:N:458:ALA:HA	2.28	0.68
3:N:520:LEU:CD1	3:N:521:PRO:HD2	2.20	0.68
2:C:432:ARG:NH2	3:D:1047:LYS:HD3	2.08	0.68
2:C:473:ARG:HB2	2:C:531:PHE:HE1	1.56	0.68
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.74	0.68
2:H:274:ARG:NH1	2:H:274:ARG:HG2	2.09	0.68
3:I:127:LEU:HD12	3:I:127:LEU:C	2.18	0.68
2:M:22:GLN:HE21	2:M:336:VAL:HG22	1.59	0.68
2:M:139:GLN:NE2	2:M:414:GLY:HA3	2.07	0.68
2:M:503:LEU:HD23	2:M:507:ARG:C	2.18	0.68
2:M:666:LEU:HG	2:M:668:LEU:HD11	1.75	0.68
3:N:187:LYS:HE2	3:N:199:LEU:HG	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:501:ALA:HB3	3:N:1452:ILE:HG22	1.73	0.68
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.28	0.68
1:A:218:LEU:HD23	1:B:222:LEU:CD2	2.22	0.68
1:B:123:MET:HE2	1:B:204:SER:HA	1.76	0.68
2:C:294:GLU:O	2:C:295:ASP:HB2	1.94	0.68
2:C:878:SER:HB3	3:D:1029:ARG:NH1	2.07	0.68
3:D:142:LEU:HB3	3:D:145:VAL:C	2.18	0.68
3:D:166:GLN:HE21	3:D:396:VAL:HG12	1.58	0.68
3:D:458:ALA:HB2	3:D:575:GLN:NE2	2.09	0.68
2:H:39:ARG:HB2	2:H:45:GLN:NE2	2.07	0.68
2:H:570:PRO:HD2	2:H:635:THR:HG21	1.76	0.68
2:H:705:ILE:HG12	2:H:828:ALA:HB2	1.74	0.68
3:I:1261:GLU:OE1	3:I:1268:PRO:HA	1.93	0.68
1:L:152:PRO:HG2	3:N:857:ILE:CD1	2.23	0.68
1:L:206:THR:HG22	1:L:209:GLU:H	1.58	0.68
2:M:73:LEU:C	2:M:73:LEU:HD12	2.19	0.68
2:M:84:ARG:HG3	2:M:84:ARG:NH1	2.01	0.68
2:M:111:ASP:OD2	2:M:369:PRO:HB3	1.91	0.68
2:M:611:ILE:HG13	2:M:625:LEU:HD21	1.74	0.68
3:N:88:TYR:N	3:N:88:TYR:CD2	2.58	0.68
3:N:115:LEU:HD12	3:N:502:PHE:CE1	2.28	0.68
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.75	0.68
3:N:781:PRO:HB2	3:N:786:ILE:HD11	1.74	0.68
7:Y:139:SER:HB3	7:Y:148:GLU:CD	2.18	0.68
2:C:1055:LEU:HD22	2:C:1066:ALA:HB2	1.75	0.68
2:C:1081:VAL:HG13	2:C:1085:PHE:HB3	1.76	0.68
3:D:51:GLY:C	3:D:86:ARG:CD	2.67	0.68
3:D:115:LEU:HD23	3:D:115:LEU:C	2.19	0.68
1:G:74:ASP:CB	3:I:872:ARG:NH2	2.57	0.68
2:H:1081:VAL:HG13	2:H:1085:PHE:HB3	1.76	0.68
3:I:781:PRO:HB2	3:I:786:ILE:HD11	1.74	0.68
3:I:881:LEU:HD21	3:I:941:PHE:CZ	2.28	0.68
3:I:1101:VAL:HG13	3:I:1428:ALA:HB2	1.76	0.68
1:K:62:LEU:HD12	1:K:62:LEU:H	1.59	0.68
2:M:236:ILE:HD12	2:M:236:ILE:N	2.08	0.68
2:M:570:PRO:HD2	2:M:635:THR:HG21	1.76	0.68
2:M:987:ILE:HD12	3:N:948:THR:CG2	2.24	0.68
2:M:1036:GLU:HG3	3:N:707:THR:OG1	1.92	0.68
2:M:1081:VAL:HG13	2:M:1085:PHE:HB3	1.75	0.68
3:N:86:ARG:NE	3:N:523:ASP:CG	2.51	0.68
3:N:115:LEU:C	3:N:115:LEU:HD23	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1277:ILE:HD13	3:N:1301:LYS:HB2	1.74	0.68
1:A:54:THR:HG22	1:A:158:ILE:HD11	1.73	0.68
1:A:62:LEU:HD12	1:A:62:LEU:H	1.58	0.68
1:A:128:HIS:HE1	1:A:131:THR:HG23	1.58	0.68
1:B:19:GLU:HG3	1:B:201:THR:O	1.94	0.68
2:C:754:ILE:HD12	2:C:754:ILE:H	1.57	0.68
3:D:126:VAL:CG1	3:D:132:TYR:CB	2.71	0.68
3:D:205:TYR:CD1	3:D:390:PRO:HG3	2.29	0.68
3:D:1128:VAL:HG13	3:D:1129:THR:HG22	1.76	0.68
3:I:108:VAL:CB	3:I:109:PRO:HD3	2.22	0.68
3:I:115:LEU:C	3:I:115:LEU:HD23	2.18	0.68
3:I:843:PHE:CE1	3:I:864:VAL:HG11	2.29	0.68
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.29	0.68
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.74	0.68
2:M:661:SER:HA	2:M:665:PHE:O	1.94	0.68
2:M:1012:PRO:HD2	2:M:1026:GLN:CB	2.24	0.68
3:N:361:VAL:HG11	3:N:367:ILE:HD11	1.75	0.68
3:N:1003:VAL:HG11	3:N:1041:LEU:HD22	1.76	0.68
2:C:148:PHE:CE1	2:C:309:TYR:HB3	2.29	0.68
2:C:257:VAL:HG12	2:C:263:ASP:OD1	1.94	0.68
2:C:1105:LYS:HZ1	2:C:1107:ASN:HB2	1.59	0.68
3:D:465:LEU:HD21	3:D:509:PRO:HB2	1.74	0.68
3:D:987:GLU:OE1	7:X:120:SER:CB	2.42	0.68
1:G:88:ARG:HD2	1:G:123:MET:SD	2.33	0.68
2:H:195:LEU:HD11	2:H:234:ALA:O	1.94	0.68
2:H:224:GLU:O	2:H:228:ALA:HB3	1.94	0.68
2:H:503:LEU:HD23	2:H:507:ARG:O	1.93	0.68
2:H:666:LEU:HG	2:H:668:LEU:HD11	1.76	0.68
2:H:879:ARG:NH2	7:Y:42:ASP:OD1	2.27	0.68
3:I:590:PRO:HB2	3:I:600:LEU:CD1	2.24	0.68
4:J:64:ALA:O	4:J:68:LEU:HD13	1.94	0.68
1:K:58:ILE:CD1	1:K:140:MET:HB3	2.23	0.68
3:N:881:LEU:HD21	3:N:941:PHE:HZ	1.58	0.68
3:N:1485:GLN:O	4:O:75:PHE:HA	1.93	0.68
1:A:170:VAL:HG23	1:A:170:VAL:O	1.91	0.68
2:C:212:GLY:C	2:C:214:TYR:H	2.01	0.68
2:C:666:LEU:HG	2:C:668:LEU:HD11	1.76	0.68
3:D:158:TYR:CD1	3:D:162:ARG:CG	2.77	0.68
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.28	0.68
2:H:754:ILE:HD12	2:H:754:ILE:H	1.57	0.68
2:H:950:LEU:HD12	2:H:952:LEU:HD21	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:115:LEU:CD1	3:I:502:PHE:CE1	2.77	0.68
2:M:97:ARG:N	2:M:97:ARG:HD3	2.07	0.68
2:M:418:LEU:N	2:M:418:LEU:HD12	2.08	0.68
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.75	0.68
2:C:863:ASP:OD1	2:C:865:THR:HG22	1.93	0.67
3:D:982:PHE:CD1	7:X:125:MET:HE1	2.29	0.67
3:D:1101:VAL:HG11	3:D:1424:VAL:O	1.93	0.67
1:F:161:ARG:HB2	1:F:161:ARG:HH11	1.57	0.67
1:G:19:GLU:HG3	1:G:201:THR:O	1.94	0.67
2:H:171:TRP:CH2	2:H:417:GLY:O	2.47	0.67
2:H:471:TYR:O	2:H:483:VAL:HG13	1.93	0.67
2:H:1098:ASP:N	3:I:11:ALA:O	2.27	0.67
3:I:398:ALA:HB2	3:I:447:VAL:CA	2.24	0.67
1:K:161:ARG:HB2	1:K:161:ARG:HH11	1.57	0.67
2:M:863:ASP:OD1	2:M:865:THR:HG22	1.93	0.67
2:M:1034:GLU:OE1	3:N:1096:ARG:NH2	2.26	0.67
3:N:190:GLU:HA	3:N:196:VAL:HA	1.76	0.67
3:N:991:GLN:HE22	7:Z:112:VAL:HB	1.59	0.67
4:O:18:ARG:HB2	4:O:18:ARG:NH2	2.09	0.67
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.57	0.67
1:B:187:GLY:O	3:D:688:TRP:CD1	2.42	0.67
2:C:154:ARG:NH1	2:C:178:PRO:HD3	2.09	0.67
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.76	0.67
3:D:393:ILE:HD12	3:D:393:ILE:N	2.08	0.67
2:H:512:ARG:CB	2:H:523:ILE:HD11	2.24	0.67
3:I:715:ALA:HB3	3:I:764:LEU:HA	1.75	0.67
2:M:211:LEU:CD2	2:M:221:LEU:HD21	2.20	0.67
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.25	0.67
2:M:571:LEU:HD11	2:M:700:TYR:HA	1.74	0.67
3:N:119:SER:HB2	3:N:123:LEU:H	1.58	0.67
3:N:169:TYR:CE1	3:N:198:ARG:HG3	2.30	0.67
1:A:42:ARG:NH1	1:B:34:VAL:CB	2.56	0.67
1:B:206:THR:HG22	1:B:209:GLU:H	1.58	0.67
2:C:211:LEU:HD11	2:C:311:PHE:CD1	2.30	0.67
2:C:611:ILE:HG13	2:C:625:LEU:HD21	1.76	0.67
2:C:988:VAL:HG11	3:D:949:ILE:O	1.94	0.67
3:D:179:VAL:HG13	3:D:183:GLU:HB3	1.76	0.67
3:D:521:PRO:HB2	3:D:524:LEU:HD13	1.76	0.67
2:H:474:VAL:HG23	2:H:478:VAL:C	2.19	0.67
2:H:1056:LYS:CD	3:I:623:VAL:CG1	2.70	0.67
3:I:785:ILE:HD12	3:I:785:ILE:N	2.02	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:63:GLY:HA3	2:M:103:LYS:HE2	1.74	0.67
2:M:676:ILE:HG21	2:M:988:VAL:CG1	2.21	0.67
2:M:1043:TYR:CE2	3:N:710:ARG:HD2	2.29	0.67
3:N:1106:VAL:HG12	3:N:1107:VAL:N	2.09	0.67
3:N:1256:LEU:C	3:N:1260:ILE:HG13	2.18	0.67
7:Y:139:SER:HB3	7:Y:148:GLU:HG3	1.76	0.67
2:C:54:ILE:CG2	2:C:66:LEU:HB3	2.24	0.67
2:C:272:ALA:HA	2:C:464:LEU:HD22	1.76	0.67
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.74	0.67
2:C:678:PRO:HG3	2:C:873:PRO:HD2	1.75	0.67
3:D:51:GLY:C	3:D:86:ARG:NE	2.52	0.67
3:D:982:PHE:N	3:D:982:PHE:CD2	2.60	0.67
3:D:1321:ALA:O	3:D:1339:LYS:HD2	1.95	0.67
2:H:316:GLY:C	2:H:318:PRO:CD	2.68	0.67
3:I:205:TYR:CB	3:I:393:ILE:HG13	2.24	0.67
2:M:98:LEU:N	2:M:98:LEU:HD12	2.09	0.67
3:N:970:LYS:HD3	7:Z:113:LEU:HD21	1.76	0.67
3:N:1257:PRO:CA	3:N:1260:ILE:HD12	2.15	0.67
3:N:1367:HIS:HA	3:N:1370:ILE:HD12	1.77	0.67
7:Y:22:GLU:HB3	7:Y:62:ILE:HD11	1.77	0.67
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.76	0.67
2:C:661:SER:HA	2:C:665:PHE:O	1.94	0.67
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.29	0.67
3:D:890:VAL:HG11	3:D:922:LEU:CD1	2.25	0.67
1:F:128:HIS:HE1	1:F:131:THR:HG23	1.59	0.67
2:H:838:LYS:O	2:H:838:LYS:HG3	1.94	0.67
2:H:1030:GLN:CD	3:I:628:ARG:HD3	2.20	0.67
1:L:19:GLU:HG3	1:L:201:THR:O	1.93	0.67
2:M:47:ALA:O	2:M:50:GLU:HB3	1.94	0.67
2:M:99:GLN:HA	2:M:109:LYS:O	1.95	0.67
2:M:140:ILE:HG22	2:M:333:ILE:HG13	1.76	0.67
7:Y:155:HIS:O	7:Y:156:GLY:C	2.38	0.67
2:C:3:ILE:HD12	2:C:3:ILE:N	2.10	0.67
2:C:73:LEU:C	2:C:73:LEU:HD12	2.19	0.67
2:C:80:GLN:HB2	2:C:84:ARG:HH12	1.60	0.67
3:D:139:GLY:N	3:D:147:VAL:HG21	2.10	0.67
1:F:176:ARG:HG3	1:F:200:TRP:CE3	2.29	0.67
1:G:33:GLY:O	1:G:195:LEU:HD22	1.94	0.67
2:H:289:THR:O	2:H:291:ALA:N	2.26	0.67
2:H:428:ARG:HA	2:H:450:GLY:O	1.95	0.67
2:H:678:PRO:HG3	2:H:873:PRO:HD2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:878:SER:O	3:I:1034:GLN:NE2	2.27	0.67
3:I:639:LEU:CD1	3:I:766:ALA:HB2	2.21	0.67
3:I:1459:LEU:HB3	3:I:1465:ASN:OD1	1.95	0.67
2:M:30:LEU:HD12	2:M:30:LEU:C	2.20	0.67
3:N:141:ILE:CG1	3:N:448:GLU:CD	2.66	0.67
3:N:600:LEU:HD12	3:N:600:LEU:H	1.59	0.67
3:N:783:ARG:CZ	7:Z:41:ASP:HB3	2.23	0.67
3:N:1094:LEU:HG	3:N:1098:LEU:CD2	2.25	0.67
3:N:1102:THR:HA	3:N:1105:ILE:HD13	1.76	0.67
3:N:1321:ALA:O	3:N:1339:LYS:HD2	1.95	0.67
7:X:57:ARG:HH21	7:X:57:ARG:CB	2.00	0.67
1:A:176:ARG:HG3	1:A:200:TRP:CE3	2.29	0.67
1:B:86:VAL:CG1	1:B:124:ASN:HB2	2.24	0.67
2:C:512:ARG:CB	2:C:523:ILE:HD11	2.24	0.67
2:C:878:SER:HA	3:D:1034:GLN:NE2	2.09	0.67
3:D:367:ILE:HG22	3:D:368:VAL:HG23	1.77	0.67
3:D:368:VAL:HB	3:D:377:VAL:CG2	2.24	0.67
4:E:35:PHE:C	4:E:36:LYS:HE2	2.19	0.67
2:H:676:ILE:O	3:I:948:THR:HG22	1.95	0.67
3:I:134:VAL:CG2	3:I:460:ALA:HB1	2.18	0.67
3:I:800:LYS:HD2	3:I:804:LEU:HB3	1.77	0.67
3:I:881:LEU:HD21	3:I:941:PHE:HZ	1.58	0.67
1:L:101:LEU:HD23	1:L:101:LEU:C	2.20	0.67
2:M:101:ILE:CD1	2:M:108:ILE:HD11	2.22	0.67
2:M:391:LEU:O	2:M:393:GLN:NE2	2.28	0.67
2:M:512:ARG:CB	2:M:523:ILE:HD11	2.24	0.67
2:M:1086:ARG:CZ	3:N:88:TYR:CZ	2.77	0.67
3:N:860:LEU:O	3:N:877:PRO:HD2	1.95	0.67
1:A:74:ASP:O	1:A:78:ILE:HG12	1.95	0.67
2:C:185:LYS:CG	2:C:190:LYS:HB3	2.24	0.67
2:C:368:THR:HB	2:C:369:PRO:HD2	1.75	0.67
3:D:408:GLU:CG	3:D:409:VAL:H	2.07	0.67
3:D:618:LEU:HD21	3:D:1463:LYS:HE2	1.75	0.67
3:D:881:LEU:HD21	3:D:941:PHE:HZ	1.58	0.67
3:D:991:GLN:NE2	7:X:112:VAL:CB	2.46	0.67
3:D:1283:ILE:HG22	3:D:1284:GLU:H	1.58	0.67
3:D:1311:LEU:N	3:D:1311:LEU:HD23	2.10	0.67
1:G:162:ILE:HG13	1:G:163:ASN:N	2.10	0.67
3:I:115:LEU:CD1	3:I:502:PHE:HE1	2.08	0.67
3:I:131:LYS:HG3	3:I:568:ARG:HD3	0.68	0.67
3:I:860:LEU:O	3:I:877:PRO:HD2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:890:VAL:HG11	3:I:922:LEU:CD1	2.25	0.67
3:I:1462:LEU:HD22	3:I:1472:ILE:HG22	1.77	0.67
3:I:1485:GLN:HE21	4:J:79:LEU:N	1.92	0.67
2:M:77:PRO:HD2	2:M:91:GLN:O	1.94	0.67
2:M:163:ILE:HD12	2:M:171:TRP:CH2	2.29	0.67
2:M:480:THR:HB	2:M:482:GLU:H	1.60	0.67
6:Q:12:G:H2'	6:Q:13:G:C8	2.30	0.67
7:X:19:LEU:O	7:X:23:ARG:HG3	1.93	0.67
1:A:31:GLY:H	1:A:193:ASP:CG	2.02	0.67
1:B:156:HIS:HD1	1:B:158:ILE:HG12	1.59	0.67
2:C:570:PRO:HD2	2:C:635:THR:HG21	1.75	0.67
2:C:878:SER:OG	3:D:1029:ARG:CD	2.42	0.67
3:D:860:LEU:O	3:D:877:PRO:HD2	1.95	0.67
2:H:697:ARG:HD2	2:H:699:PHE:CE1	2.30	0.67
3:I:996:TRP:CE3	3:I:999:THR:HG21	2.30	0.67
3:I:1403:LEU:O	3:I:1407:LEU:HB2	1.94	0.67
2:M:1070:ILE:HG23	3:N:656:PHE:CD1	2.29	0.67
2:M:1086:ARG:NH1	3:N:88:TYR:CE1	2.63	0.67
3:N:26:VAL:O	3:N:26:VAL:HG23	1.95	0.67
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.76	0.67
3:N:1403:LEU:O	3:N:1407:LEU:HB2	1.94	0.67
1:A:22:GLU:OE2	1:A:198:ARG:HB3	1.95	0.67
1:A:56:VAL:HG13	1:A:142:VAL:CG1	2.23	0.67
2:C:95:TYR:HD2	2:C:114:PHE:CB	2.07	0.67
2:C:685:GLU:OE2	7:X:41:ASP:CB	2.43	0.67
2:C:1086:ARG:HD3	3:D:88:TYR:CD1	2.30	0.67
3:D:1299:PHE:H	3:D:1299:PHE:HD2	1.41	0.67
2:H:854:PRO:HB2	2:H:856:GLU:CG	2.24	0.67
3:I:26:VAL:O	3:I:26:VAL:HG23	1.95	0.67
3:I:625:TYR:HB3	3:I:749:VAL:HG23	1.76	0.67
3:I:1437:ALA:HB1	3:I:1446:VAL:HG22	1.77	0.67
3:N:407:VAL:HA	3:N:422:ALA:HB2	1.77	0.67
2:C:473:ARG:HG2	2:C:473:ARG:NH1	2.09	0.66
2:C:850:ALA:HA	3:D:632:VAL:CG1	2.26	0.66
2:H:137:VAL:O	2:H:391:LEU:HD21	1.95	0.66
2:H:139:GLN:HE22	2:H:415:PRO:HD3	1.60	0.66
2:H:713:ARG:HB3	2:H:720:GLU:OE2	1.95	0.66
3:I:141:ILE:HG13	3:I:448:GLU:CG	2.25	0.66
2:M:137:VAL:O	2:M:391:LEU:HD21	1.95	0.66
2:M:236:ILE:N	2:M:236:ILE:CD1	2.58	0.66
2:M:838:LYS:O	2:M:838:LYS:HG3	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:139:GLY:O	3:N:147:VAL:HB	1.95	0.66
3:N:521:PRO:HB2	3:N:524:LEU:HD13	1.76	0.66
3:N:743:ASP:OD1	6:U:16:G:O3'	2.09	0.66
7:Z:102:VAL:HG11	7:Z:125:MET:CE	2.24	0.66
7:Z:155:HIS:O	7:Z:156:GLY:C	2.38	0.66
1:A:156:HIS:HD2	1:A:157:GLY:N	1.92	0.66
2:C:657:ASP:OD1	2:C:663:ASN:N	2.28	0.66
3:D:28:LYS:HD2	3:D:29:PRO:CD	2.17	0.66
3:D:119:SER:HB2	3:D:123:LEU:H	1.58	0.66
3:D:470:LEU:HD23	3:D:470:LEU:H	1.60	0.66
3:D:774:SER:HB3	3:D:1362:LYS:O	1.95	0.66
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.77	0.66
3:D:1403:LEU:O	3:D:1407:LEU:HB2	1.94	0.66
4:E:31:LEU:HB3	4:E:35:PHE:HE1	1.60	0.66
4:E:32:ARG:HB2	4:E:32:ARG:HH11	1.61	0.66
2:H:661:SER:HA	2:H:665:PHE:O	1.94	0.66
2:H:987:ILE:HD12	3:I:948:THR:HG23	1.76	0.66
3:I:145:VAL:HG22	3:I:146:PRO:HD2	1.77	0.66
3:I:1466:VAL:HG12	3:I:1467:ILE:HD13	1.76	0.66
2:M:142:ARG:NE	2:M:325:ILE:HG23	2.11	0.66
2:M:144:PRO:HA	2:M:163:ILE:O	1.94	0.66
2:M:879:ARG:NH2	7:Z:42:ASP:OD1	2.28	0.66
2:M:1098:ASP:HB3	3:N:11:ALA:O	1.95	0.66
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.26	0.66
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.30	0.66
1:B:24:VAL:HG22	1:B:196:THR:CG2	2.26	0.66
2:C:316:GLY:O	2:C:318:PRO:HD3	1.95	0.66
2:C:950:LEU:HD12	2:C:952:LEU:CD2	2.25	0.66
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.25	0.66
3:D:1101:VAL:HG21	3:D:1424:VAL:HG23	1.78	0.66
4:E:54:LEU:HD23	4:E:58:PRO:CD	2.24	0.66
1:G:206:THR:HG22	1:G:209:GLU:H	1.58	0.66
3:I:179:VAL:HG21	3:I:189:GLN:HE22	1.58	0.66
3:I:705:ALA:CB	3:I:706:PRO:HD3	2.25	0.66
3:I:970:LYS:CE	7:Y:113:LEU:HD23	2.25	0.66
3:I:1321:ALA:O	3:I:1339:LYS:HD2	1.95	0.66
3:I:1367:HIS:HA	3:I:1370:ILE:HD12	1.76	0.66
2:M:64:LEU:CD2	2:M:359:MET:HB2	2.24	0.66
2:M:83:CYS:SG	2:M:90:TYR:HD2	2.18	0.66
2:M:265:ARG:HB3	2:M:267:TYR:CD2	2.29	0.66
2:M:473:ARG:HD3	2:M:531:PHE:CE1	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:520:LEU:O	3:N:525:ARG:NH1	2.29	0.66
3:N:669:ASN:HD21	3:N:671:LYS:HB2	1.59	0.66
3:N:1311:LEU:HD23	3:N:1311:LEU:N	2.10	0.66
3:N:1481:VAL:HG13	4:O:18:ARG:HD3	1.76	0.66
7:Z:115:THR:CB	7:Z:116:PRO:HD3	2.26	0.66
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.76	0.66
2:C:726:ILE:HG13	2:C:734:LEU:HD11	1.78	0.66
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.78	0.66
1:F:156:HIS:HD2	1:F:157:GLY:N	1.92	0.66
2:H:188:LYS:O	2:H:188:LYS:CG	2.43	0.66
2:H:657:ASP:OD1	2:H:663:ASN:N	2.28	0.66
2:H:673:LEU:HD22	2:H:867:VAL:HG12	1.78	0.66
2:H:950:LEU:HD12	2:H:952:LEU:CD2	2.25	0.66
3:I:119:SER:HB2	3:I:123:LEU:H	1.58	0.66
3:I:160:GLU:OE2	3:I:165:LYS:HD2	1.95	0.66
3:I:204:LEU:N	3:I:394:LEU:O	2.23	0.66
1:K:128:HIS:HE1	1:K:131:THR:HG23	1.59	0.66
1:K:206:THR:HG22	1:K:209:GLU:CG	2.25	0.66
2:M:374:ASN:HD22	2:M:374:ASN:N	1.93	0.66
2:M:950:LEU:HD12	2:M:952:LEU:HD21	1.76	0.66
2:M:987:ILE:HD12	3:N:948:THR:HG23	1.78	0.66
3:N:412:GLY:HA2	3:N:434:ARG:HD3	1.77	0.66
3:N:546:ARG:HH11	3:N:546:ARG:HG2	1.60	0.66
3:N:1425:THR:O	3:N:1429:LEU:HD13	1.96	0.66
1:A:91:ASN:ND2	1:A:93:SER:HB2	2.10	0.66
1:B:101:LEU:HD23	1:B:101:LEU:C	2.20	0.66
2:C:258:TYR:CD2	2:C:290:LEU:HD11	2.31	0.66
2:C:878:SER:HA	3:D:1034:GLN:HE22	1.60	0.66
3:D:520:LEU:O	3:D:525:ARG:NH1	2.29	0.66
4:E:36:LYS:HZ3	4:E:36:LYS:CA	2.08	0.66
3:I:1311:LEU:N	3:I:1311:LEU:HD23	2.11	0.66
1:K:156:HIS:HD2	1:K:157:GLY:N	1.92	0.66
3:N:890:VAL:HG11	3:N:922:LEU:CD1	2.25	0.66
7:X:133:ARG:HA	7:X:154:ILE:HD11	1.75	0.66
2:C:36:PRO:CA	2:C:39:ARG:HG3	2.26	0.66
2:C:191:PHE:HD2	2:C:195:LEU:HD23	1.61	0.66
2:C:196:LEU:O	2:C:199:VAL:HB	1.96	0.66
2:C:569:VAL:HG12	2:C:996:LYS:O	1.95	0.66
2:C:838:LYS:HG3	2:C:838:LYS:O	1.94	0.66
2:C:854:PRO:HB2	2:C:856:GLU:CG	2.24	0.66
3:D:47:GLU:O	3:D:51:GLY:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:809:PRO:O	3:D:812:ALA:HB3	1.96	0.66
3:D:1146:GLY:HA2	3:D:1207:TYR:CB	2.25	0.66
1:F:206:THR:HG22	1:F:209:GLU:CG	2.26	0.66
1:G:101:LEU:HD23	1:G:101:LEU:C	2.20	0.66
2:H:63:GLY:HA3	2:H:103:LYS:HE2	1.76	0.66
2:H:73:LEU:C	2:H:73:LEU:HD12	2.21	0.66
2:H:137:VAL:HG23	2:H:391:LEU:CD2	2.25	0.66
2:H:850:ALA:HA	3:I:632:VAL:CG1	2.25	0.66
3:I:470:LEU:HD23	3:I:470:LEU:H	1.61	0.66
3:I:1472:ILE:O	3:I:1477:GLY:HA3	1.96	0.66
2:M:36:PRO:O	2:M:39:ARG:HB3	1.96	0.66
2:M:1094:ALA:HB1	3:N:603:LEU:CD1	2.25	0.66
2:C:512:ARG:CA	2:C:523:ILE:HD11	2.26	0.66
2:C:662:GLU:O	2:C:662:GLU:CD	2.39	0.66
3:D:452:ILE:HD13	3:D:452:ILE:N	2.10	0.66
2:H:218:VAL:HG13	2:H:221:LEU:CD1	2.25	0.66
3:I:1425:THR:O	3:I:1429:LEU:HD13	1.96	0.66
1:K:82:LEU:HD21	1:K:140:MET:HE1	1.78	0.66
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.31	0.66
3:N:658:LEU:O	3:N:661:MET:HB2	1.96	0.66
3:N:1491:THR:O	3:N:1494:ALA:HB3	1.95	0.66
7:Z:54:GLU:O	7:Z:58:ILE:HG12	1.96	0.66
1:A:150:TYR:OH	2:C:695:LEU:HD22	1.96	0.66
1:A:206:THR:HG22	1:A:209:GLU:CG	2.25	0.66
2:C:710:ILE:HD11	2:C:758:ARG:HE	1.60	0.66
3:D:50:PHE:CG	3:D:522:PRO:CD	2.78	0.66
3:D:154:THR:CG2	3:D:157:GLU:OE2	2.44	0.66
3:D:639:LEU:CD1	3:D:766:ALA:HB2	2.21	0.66
3:D:947:ILE:H	3:D:947:ILE:HD12	1.61	0.66
3:D:1223:ILE:HD11	3:D:1462:LEU:HD12	1.77	0.66
2:H:212:GLY:C	2:H:214:TYR:H	2.04	0.66
2:H:428:ARG:NH1	2:H:449:ILE:O	2.29	0.66
3:I:86:ARG:NH2	3:I:88:TYR:CE1	2.64	0.66
3:I:159:ARG:O	3:I:164:GLY:O	2.13	0.66
3:I:1272:ALA:HA	3:I:1326:THR:HB	1.77	0.66
1:L:88:ARG:HD2	1:L:123:MET:HE1	1.78	0.66
2:M:151:ASP:HB2	2:M:157:ARG:O	1.96	0.66
2:M:554:ASP:OD2	2:M:556:ASN:HB3	1.96	0.66
2:M:861:LEU:CG	2:M:862:PRO:HD2	2.25	0.66
3:N:172:PRO:HD3	3:N:195:VAL:CG2	2.26	0.66
3:N:1434:TRP:NE1	3:N:1435:LEU:HD12	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:524:VAL:CG1	2:C:528:GLU:HB2	2.26	0.66
3:D:1105:ILE:HB	3:D:1222:GLY:HA3	1.77	0.66
3:D:1367:HIS:HA	3:D:1370:ILE:HD12	1.76	0.66
2:H:65:VAL:O	2:H:100:LEU:HD12	1.96	0.66
2:H:142:ARG:HE	2:H:325:ILE:HG13	1.59	0.66
2:H:554:ASP:OD2	2:H:556:ASN:HB3	1.95	0.66
2:H:662:GLU:CD	2:H:662:GLU:O	2.39	0.66
3:I:658:LEU:O	3:I:661:MET:HB2	1.95	0.66
2:M:174:LEU:CD2	2:M:193:LEU:HD21	2.25	0.66
2:M:950:LEU:HD12	2:M:952:LEU:CD2	2.26	0.66
3:N:593:ASN:HB3	3:N:594:PRO:HD2	1.77	0.66
1:A:73:GLU:HB2	1:A:78:ILE:CD1	2.23	0.66
2:C:451:LEU:C	2:C:452:ILE:HD12	2.21	0.66
2:C:564:MET:HE2	2:C:846:LYS:HD2	1.78	0.66
3:D:139:GLY:CA	3:D:147:VAL:HG21	2.26	0.66
3:D:686:GLU:HA	3:D:689:ASP:OD2	1.96	0.66
3:D:1123:PHE:CD2	3:D:1184:GLN:HG3	2.30	0.66
1:F:82:LEU:HD21	1:F:140:MET:HE1	1.78	0.66
2:H:524:VAL:CG1	2:H:528:GLU:HB2	2.26	0.66
2:H:794:PRO:HG2	2:H:1025:ALA:C	2.21	0.66
2:H:906:PHE:CE1	3:I:1067:VAL:HG13	2.31	0.66
3:I:783:ARG:HH12	7:Y:41:ASP:CB	1.90	0.66
3:I:1211:MET:CG	3:I:1212:ALA:H	2.00	0.66
4:J:9:LEU:HB3	4:J:19:LEU:HD21	1.78	0.66
4:J:31:LEU:HD12	4:J:32:ARG:N	2.10	0.66
2:M:109:LYS:NZ	2:M:367:LEU:C	2.54	0.66
2:M:289:THR:O	2:M:291:ALA:N	2.28	0.66
2:M:451:LEU:C	2:M:452:ILE:HD12	2.21	0.66
2:M:497:ALA:HA	2:M:515:ALA:HA	1.77	0.66
2:M:1105:LYS:HZ1	2:M:1107:ASN:HB2	1.61	0.66
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.76	0.66
3:N:347:VAL:CG2	3:N:368:VAL:HG11	2.24	0.66
3:N:767:HIS:CE1	4:O:6:ILE:HG21	2.29	0.66
7:Z:57:ARG:HB2	7:Z:57:ARG:NH2	2.05	0.66
7:Z:64:SER:O	7:Z:68:ILE:HG12	1.96	0.66
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.31	0.65
2:C:138:SER:HB2	2:C:410:ILE:HG12	1.78	0.65
3:D:157:GLU:O	3:D:161:LEU:HD12	1.94	0.65
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.30	0.65
3:D:1041:LEU:HD12	3:D:1058:ARG:C	2.21	0.65
3:D:1459:LEU:HD21	3:D:1468:LEU:HD12	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:91:ASN:ND2	1:F:93:SER:HB2	2.10	0.65
1:G:134:GLU:HG3	3:N:821:VAL:HG11	1.78	0.65
2:H:129:ILE:CG1	2:H:386:PHE:HB3	2.27	0.65
2:H:338:GLU:O	2:H:341:THR:HG22	1.95	0.65
2:H:1020:PRO:HD2	3:I:622:ARG:HB2	1.77	0.65
3:I:162:ARG:HD2	3:I:452:ILE:CG2	2.20	0.65
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.79	0.65
2:M:142:ARG:HB3	2:M:142:ARG:HH11	1.61	0.65
2:M:630:ARG:HD3	2:M:705:ILE:HB	1.78	0.65
3:N:470:LEU:HD23	3:N:470:LEU:H	1.61	0.65
3:N:1041:LEU:HD12	3:N:1058:ARG:C	2.21	0.65
2:C:374:ASN:O	2:C:377:PRO:HD2	1.96	0.65
2:C:508:ILE:HD12	2:C:526:PRO:HB3	1.77	0.65
3:D:1261:GLU:OE1	3:D:1268:PRO:HA	1.96	0.65
1:G:52:ALA:HB2	1:G:170:VAL:C	2.22	0.65
2:H:224:GLU:CB	2:H:228:ALA:HB2	2.26	0.65
2:H:512:ARG:CA	2:H:523:ILE:HD11	2.26	0.65
2:H:564:MET:SD	2:H:846:LYS:HD2	2.36	0.65
2:H:976:ASP:CB	2:H:979:THR:HG22	2.26	0.65
3:I:1041:LEU:HD12	3:I:1058:ARG:C	2.21	0.65
1:K:91:ASN:ND2	1:K:93:SER:HB2	2.11	0.65
1:L:52:ALA:HB2	1:L:170:VAL:C	2.22	0.65
2:M:63:GLY:N	2:M:103:LYS:HG2	2.12	0.65
2:M:657:ASP:OD1	2:M:663:ASN:N	2.29	0.65
2:M:662:GLU:O	2:M:662:GLU:CD	2.39	0.65
2:M:1036:GLU:O	2:M:1039:ALA:HB3	1.95	0.65
3:N:402:PRO:HA	3:N:443:VAL:HG23	1.78	0.65
1:A:82:LEU:HD21	1:A:140:MET:HE1	1.78	0.65
2:C:383:ARG:HH11	2:C:383:ARG:CB	2.03	0.65
3:D:153:LEU:HD11	3:D:158:TYR:HB2	1.76	0.65
3:D:170:PRO:HD2	2:H:318:PRO:CB	2.24	0.65
3:D:969:ARG:HG3	3:D:970:LYS:H	1.62	0.65
3:D:1209:LEU:CD2	3:D:1211:MET:H	2.05	0.65
2:H:141:HIS:HB3	2:H:418:LEU:HD23	1.76	0.65
2:H:580:MET:HB3	2:H:584:GLU:CD	2.21	0.65
3:I:50:PHE:HA	3:I:89:ARG:CB	2.26	0.65
3:I:50:PHE:CD2	3:I:522:PRO:HD2	2.30	0.65
3:I:1258:ARG:NH2	3:I:1262:LEU:HD11	2.10	0.65
2:M:36:PRO:CA	2:M:39:ARG:HB2	2.24	0.65
2:M:205:GLU:HA	2:M:209:ARG:CZ	2.26	0.65
3:N:180:LYS:HG2	3:N:183:GLU:OE1	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:660:LYS:HZ1	3:N:660:LYS:HA	1.61	0.65
1:A:9:PRO:HB3	1:A:25:LEU:HD11	1.78	0.65
1:B:124:ASN:N	1:B:125:PRO:HD3	2.12	0.65
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.77	0.65
2:C:554:ASP:OD2	2:C:556:ASN:HB3	1.96	0.65
3:D:658:LEU:O	3:D:661:MET:HB2	1.95	0.65
2:H:723:THR:HG23	2:H:725:ASP:H	1.61	0.65
1:K:56:VAL:HG13	1:K:142:VAL:CG1	2.23	0.65
2:M:282:GLY:C	2:M:283:ILE:HG12	2.20	0.65
2:M:1090:LYS:CE	3:N:90:MET:SD	2.85	0.65
3:N:17:LYS:HG2	3:N:21:TRP:NE1	2.11	0.65
3:N:23:TYR:CD1	3:N:89:ARG:HG2	2.31	0.65
1:B:52:ALA:HB2	1:B:170:VAL:C	2.21	0.65
2:C:31:GLN:NE2	2:C:71:TYR:OH	2.28	0.65
2:C:52:PHE:HB3	2:C:53:PRO:HD3	1.78	0.65
3:D:26:VAL:HG23	3:D:26:VAL:O	1.95	0.65
3:D:800:LYS:HG3	3:D:829:VAL:HG13	1.78	0.65
1:G:24:VAL:HG22	1:G:196:THR:CG2	2.26	0.65
3:I:6:ARG:HH21	3:I:1482:ARG:NH2	1.95	0.65
2:M:22:GLN:HB3	2:M:121:MET:HE1	1.79	0.65
2:M:218:VAL:HG22	2:M:222:MET:HG3	1.78	0.65
2:M:263:ASP:HB2	2:M:264:PRO:CD	2.19	0.65
2:M:343:GLN:HE21	2:M:343:GLN:HA	1.61	0.65
3:N:122:GLU:O	3:N:126:VAL:HG23	1.96	0.65
3:N:148:GLU:HG2	3:N:151:GLN:HB3	1.77	0.65
2:C:140:ILE:HG22	2:C:333:ILE:CD1	2.27	0.65
2:C:196:LEU:O	2:C:200:LEU:HG	1.97	0.65
2:C:199:VAL:CG2	2:C:238:LEU:HD12	2.24	0.65
3:D:191:LEU:HD11	3:D:197:SER:OG	1.97	0.65
3:D:1208:ASP:HB2	3:D:1366:LYS:HE3	1.78	0.65
2:H:267:TYR:HE2	2:H:289:THR:HG23	1.60	0.65
2:H:676:ILE:O	3:I:948:THR:CG2	2.44	0.65
3:I:177:ALA:CB	3:I:390:PRO:HG3	2.20	0.65
3:I:484:PRO:HB3	3:I:488:ARG:HE	1.62	0.65
3:I:561:GLY:C	3:I:563:PRO:HD3	2.20	0.65
3:I:676:MET:SD	3:I:684:LYS:HE3	2.36	0.65
1:K:31:GLY:H	1:K:193:ASP:CG	2.05	0.65
1:L:24:VAL:HG22	1:L:196:THR:CG2	2.26	0.65
2:M:620:LEU:HD12	2:M:620:LEU:O	1.95	0.65
3:N:96:ALA:HB3	3:N:554:LEU:HD23	1.77	0.65
3:N:577:ALA:O	3:N:580:ALA:HB3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1029:ARG:NH1	3:N:1030:GLY:H	1.94	0.65
7:Y:93:ASP:OD1	7:Y:94:PRO:HD2	1.96	0.65
2:C:124:ASP:HB2	2:C:407:LYS:HZ1	1.61	0.65
2:C:154:ARG:CZ	2:C:178:PRO:HD3	2.26	0.65
3:D:600:LEU:H	3:D:600:LEU:HD12	1.61	0.65
3:D:860:LEU:HD22	3:D:878:GLY:HA2	1.79	0.65
2:H:571:LEU:HD11	2:H:701:THR:H	1.59	0.65
2:H:1012:PRO:HD2	2:H:1026:GLN:CG	2.26	0.65
3:I:136:ASP:CB	3:I:137:PRO:HD3	2.20	0.65
3:I:817:GLU:HG3	3:I:839:LEU:HD23	1.78	0.65
3:I:894:LYS:O	3:I:898:GLU:HG3	1.97	0.65
3:I:1066:THR:CG2	3:I:1069:GLU:HB2	2.26	0.65
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.32	0.65
2:M:254:VAL:C	2:M:257:VAL:HG23	2.21	0.65
2:M:342:ASP:O	2:M:346:VAL:HG23	1.97	0.65
2:M:368:THR:CB	2:M:369:PRO:CD	2.75	0.65
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.27	0.65
3:N:804:LEU:HB2	3:N:831:GLY:HA2	1.79	0.65
7:X:115:THR:CB	7:X:116:PRO:HD3	2.26	0.65
1:A:171:PHE:O	1:A:173:PRO:HD3	1.97	0.65
1:A:218:LEU:CD2	1:B:222:LEU:HD21	2.24	0.65
1:B:206:THR:HG23	1:B:208:LEU:H	1.62	0.65
2:C:52:PHE:O	2:C:54:ILE:N	2.30	0.65
2:C:1097:LEU:CD1	3:D:1451:ALA:HB1	2.26	0.65
3:D:159:ARG:HH21	2:H:208:ALA:HB1	1.61	0.65
3:D:1066:THR:CG2	3:D:1069:GLU:HB2	2.26	0.65
3:I:808:THR:OG1	3:I:809:PRO:HD3	1.97	0.65
3:I:1095:THR:OG1	3:I:1230:GLY:HA3	1.97	0.65
2:M:50:GLU:HG2	2:M:51:THR:HG23	1.78	0.65
2:M:113:VAL:CG2	2:M:373:VAL:HG11	2.27	0.65
2:M:580:MET:HB3	2:M:584:GLU:CD	2.21	0.65
2:M:957:LYS:CD	2:M:961:GLU:HB3	2.26	0.65
1:B:185:ARG:CD	3:D:692:GLU:HG2	2.27	0.65
2:C:289:THR:O	2:C:291:ALA:N	2.27	0.65
2:C:564:MET:SD	2:C:846:LYS:HD2	2.37	0.65
2:C:580:MET:HB3	2:C:584:GLU:CD	2.21	0.65
2:C:878:SER:CB	3:D:1029:ARG:CZ	2.75	0.65
3:D:176:ASP:HB2	3:D:388:HIS:O	1.97	0.65
3:D:480:GLU:O	3:D:484:PRO:CG	2.44	0.65
3:D:1459:LEU:CD2	3:D:1468:LEU:HD12	2.27	0.65
4:E:59:ASN:HB3	4:E:62:THR:OG1	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:44:LEU:HA	1:G:48:ILE:CD1	2.26	0.65
3:I:581:LEU:HD23	3:I:581:LEU:N	2.12	0.65
3:I:680:GLN:O	3:I:683:ILE:CD1	2.44	0.65
3:I:1097:LYS:O	3:I:1100:ASP:HB2	1.97	0.65
3:I:1223:ILE:HD11	3:I:1462:LEU:HD12	1.78	0.65
3:I:1435:LEU:HB2	3:I:1457:ASP:OD2	1.97	0.65
2:M:22:GLN:HB3	2:M:121:MET:CE	2.27	0.65
2:M:987:ILE:HD11	3:N:946:GLY:HA2	1.79	0.65
2:M:1072:LYS:O	3:N:659:LYS:HE2	1.97	0.65
3:N:119:SER:HB2	3:N:123:LEU:CB	2.19	0.65
3:N:408:GLU:HB2	3:N:421:LEU:O	1.97	0.65
3:N:484:PRO:HB3	3:N:488:ARG:HE	1.62	0.65
3:N:581:LEU:HD23	3:N:581:LEU:N	2.11	0.65
3:N:956:ILE:HD11	3:N:1062:ARG:CG	2.26	0.65
2:C:26:TYR:HD2	2:C:121:MET:HB2	1.61	0.65
3:D:166:GLN:NE2	3:D:394:LEU:HB2	2.10	0.65
3:D:354:VAL:HB	3:D:367:ILE:O	1.96	0.65
4:E:54:LEU:CG	4:E:58:PRO:HG2	2.26	0.65
2:H:18:LEU:H	2:H:18:LEU:CD1	2.10	0.65
2:H:36:PRO:C	2:H:39:ARG:HG3	2.21	0.65
2:H:40:GLU:HG3	2:H:41:ASN:N	2.09	0.65
2:H:211:LEU:HG	2:H:218:VAL:CG2	2.26	0.65
2:H:564:MET:CE	2:H:846:LYS:HD2	2.27	0.65
2:H:957:LYS:CD	2:H:961:GLU:HB3	2.26	0.65
3:I:102:ILE:O	3:I:102:ILE:HD13	1.97	0.65
3:I:206:ARG:HB3	3:I:207:PHE:CE1	2.31	0.65
3:I:577:ALA:O	3:I:580:ALA:HB3	1.97	0.65
2:M:265:ARG:NH1	2:M:332:ARG:HH12	1.84	0.65
2:M:293:PHE:CD1	2:M:293:PHE:N	2.59	0.65
2:M:714:ASP:OD1	2:M:719:PRO:HG3	1.97	0.65
3:N:372:ASP:C	3:N:374:GLU:H	2.05	0.65
3:N:441:ARG:NH1	3:N:445:ARG:NH2	2.45	0.65
3:N:826:PRO:O	3:N:829:VAL:HG23	1.97	0.65
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.77	0.65
4:O:24:ALA:O	4:O:27:ALA:N	2.30	0.65
2:C:265:ARG:HB3	2:C:267:TYR:CZ	2.31	0.64
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.27	0.64
2:C:1090:LYS:HE3	3:D:90:MET:HG3	1.76	0.64
3:D:23:TYR:CD1	3:D:89:ARG:HG2	2.32	0.64
3:D:102:ILE:O	3:D:102:ILE:HD13	1.98	0.64
3:D:655:PRO:HA	3:D:658:LEU:HD12	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:894:LYS:O	3:D:898:GLU:HG3	1.97	0.64
1:F:56:VAL:HG13	1:F:142:VAL:CG1	2.23	0.64
1:F:150:TYR:CE2	1:F:152:PRO:HG3	2.31	0.64
1:G:25:LEU:O	1:G:28:LEU:HD21	1.97	0.64
1:G:59:GLU:OE2	1:G:139:ASN:HB3	1.97	0.64
2:H:50:GLU:HG2	2:H:51:THR:HG23	1.79	0.64
2:H:557:ARG:HG2	2:H:881:ASN:ND2	2.12	0.64
2:H:836:GLY:HA3	2:H:1001:VAL:CG2	2.27	0.64
3:I:148:GLU:HB3	3:I:151:GLN:HB2	1.78	0.64
3:I:655:PRO:HA	3:I:658:LEU:HD12	1.79	0.64
3:I:704:ARG:NH2	6:S:16:G:O2'	2.29	0.64
3:I:1025:GLN:HE21	3:I:1025:GLN:CA	2.06	0.64
1:L:20:TYR:HD2	1:L:21:GLY:N	1.95	0.64
1:L:124:ASN:OD1	1:L:127:LEU:HB2	1.97	0.64
1:L:185:ARG:HD3	3:N:692:GLU:OE2	1.97	0.64
1:L:206:THR:HG23	1:L:208:LEU:H	1.62	0.64
2:M:109:LYS:CD	2:M:368:THR:HG23	2.24	0.64
3:N:50:PHE:HD2	3:N:522:PRO:HD3	0.84	0.64
3:N:139:GLY:O	3:N:162:ARG:NH2	2.31	0.64
3:N:860:LEU:HD22	3:N:878:GLY:HA2	1.79	0.64
2:C:861:LEU:HG	2:C:862:PRO:CD	2.26	0.64
3:D:17:LYS:HG2	3:D:21:TRP:NE1	2.12	0.64
3:D:158:TYR:CD1	3:D:162:ARG:HG2	2.31	0.64
3:D:817:GLU:HG3	3:D:839:LEU:HD23	1.78	0.64
3:D:826:PRO:O	3:D:829:VAL:HG23	1.97	0.64
3:D:1317:ASP:OD1	3:D:1318:TYR:N	2.30	0.64
2:H:204:GLN:NE2	2:H:228:ALA:HB1	2.13	0.64
2:H:317:VAL:O	2:H:317:VAL:HG12	1.95	0.64
3:I:618:LEU:HD23	3:I:619:LEU:HD23	1.80	0.64
2:M:50:GLU:HG2	2:M:51:THR:N	2.12	0.64
2:M:217:LEU:HB2	2:M:311:PHE:HE1	1.56	0.64
2:M:676:ILE:HG23	3:N:948:THR:HB	1.78	0.64
2:M:976:ASP:CB	2:M:979:THR:HG22	2.26	0.64
3:N:376:GLU:O	3:N:378:ILE:HG13	1.97	0.64
1:A:64:GLU:O	1:A:75:VAL:HB	1.97	0.64
2:C:184:MET:HE2	2:C:186:VAL:CG1	2.27	0.64
2:C:302:VAL:C	2:C:305:PRO:HD2	2.21	0.64
3:D:187:LYS:HG3	3:D:198:ARG:O	1.97	0.64
3:D:368:VAL:HB	3:D:377:VAL:HG21	1.77	0.64
1:F:88:ARG:HD3	1:F:123:MET:HE1	1.80	0.64
1:G:42:ARG:HH11	1:G:42:ARG:CG	2.08	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:76:VAL:CG2	3:I:872:ARG:HH12	2.10	0.64
3:I:116:LEU:CD2	3:I:118:LEU:HG	2.18	0.64
3:I:433:GLY:HA2	3:I:449:SER:H	1.61	0.64
3:I:1109:GLU:HG2	3:I:1201:CYS:CA	2.26	0.64
3:I:1397:LYS:NZ	3:I:1432:LYS:NZ	2.45	0.64
2:M:512:ARG:CA	2:M:523:ILE:HD11	2.26	0.64
2:M:1017:THR:O	2:M:1018:GLN:HB2	1.97	0.64
3:N:53:ILE:HG13	3:N:53:ILE:O	1.96	0.64
3:N:398:ALA:HB2	3:N:447:VAL:HA	1.80	0.64
3:N:655:PRO:HA	3:N:658:LEU:HD12	1.79	0.64
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.79	0.64
2:C:101:ILE:HG23	2:C:108:ILE:CD1	2.27	0.64
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.79	0.64
2:C:564:MET:CE	2:C:846:LYS:CD	2.76	0.64
2:C:564:MET:CE	2:C:846:LYS:HE2	2.16	0.64
3:D:95:LEU:HD23	3:D:551:ASN:OD1	1.98	0.64
3:D:625:TYR:HB3	3:D:749:VAL:HG23	1.80	0.64
3:D:1122:LEU:HD13	3:D:1185:GLU:CA	2.27	0.64
1:G:58:ILE:HB	1:G:61:VAL:HB	1.78	0.64
2:H:22:GLN:HB3	2:H:121:MET:HE1	1.78	0.64
2:H:169:GLY:HA2	2:H:263:ASP:HB3	1.78	0.64
2:H:191:PHE:CE2	2:H:192:PRO:O	2.49	0.64
2:H:1017:THR:O	2:H:1018:GLN:HB2	1.96	0.64
3:I:86:ARG:O	3:I:87:ARG:CZ	2.45	0.64
2:M:73:LEU:HB2	2:M:93:PRO:O	1.98	0.64
2:M:524:VAL:CG1	2:M:528:GLU:HB2	2.26	0.64
2:M:911:GLU:OE1	3:N:951:ILE:HD13	1.93	0.64
3:N:800:LYS:HD2	3:N:804:LEU:HB3	1.78	0.64
3:N:817:GLU:HG3	3:N:839:LEU:HD23	1.78	0.64
7:X:6:LYS:HB3	7:X:75:LEU:HD11	1.79	0.64
2:C:184:MET:HE2	2:C:186:VAL:HG13	1.79	0.64
2:C:257:VAL:HG12	2:C:263:ASP:CG	2.22	0.64
3:D:1312:LEU:CD1	3:D:1327:ARG:HH21	2.10	0.64
1:G:206:THR:HG23	1:G:208:LEU:H	1.62	0.64
2:H:6:PHE:CZ	2:H:917:LEU:HD11	2.33	0.64
2:H:171:TRP:HH2	2:H:417:GLY:O	1.78	0.64
2:H:317:VAL:N	2:H:318:PRO:CD	2.60	0.64
2:H:496:ILE:HD12	2:H:496:ILE:N	2.12	0.64
2:H:678:PRO:CG	3:I:947:ILE:HD11	2.27	0.64
2:H:1036:GLU:HG3	3:I:707:THR:OG1	1.97	0.64
3:I:134:VAL:O	3:I:454:ALA:HB1	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:780:LYS:NZ	7:Y:38:GLU:HB3	2.13	0.64
4:J:27:ALA:HA	4:J:30:LEU:HD12	1.78	0.64
4:J:38:THR:OG1	4:J:39:VAL:N	2.28	0.64
1:L:152:PRO:HG2	3:N:857:ILE:HD11	1.79	0.64
2:M:440:PRO:HB2	3:N:1074:SER:OG	1.97	0.64
3:N:956:ILE:HD11	3:N:1062:ARG:HG3	1.78	0.64
1:A:49:PRO:HB3	1:A:148:VAL:HG22	1.80	0.64
1:A:58:ILE:CD1	1:A:140:MET:HB3	2.23	0.64
1:B:20:TYR:HD2	1:B:21:GLY:N	1.95	0.64
2:C:987:ILE:HD11	3:D:946:GLY:CA	2.28	0.64
3:D:355:VAL:CG2	3:D:367:ILE:HG23	2.28	0.64
2:H:196:LEU:HD23	2:H:200:LEU:CD1	2.22	0.64
2:H:329:GLY:HA3	2:H:489:THR:HG23	1.79	0.64
3:I:17:LYS:HG2	3:I:21:TRP:NE1	2.12	0.64
3:I:660:LYS:HZ1	3:I:660:LYS:HA	1.61	0.64
2:M:80:GLN:HG3	2:M:90:TYR:HE2	1.60	0.64
2:M:118:ILE:HD12	2:M:118:ILE:C	2.23	0.64
2:M:140:ILE:HD13	2:M:331:ARG:CZ	2.27	0.64
2:M:313:LEU:HD13	2:M:321:GLU:HG3	1.79	0.64
2:M:317:VAL:HG13	2:M:320:HIS:CD2	2.33	0.64
2:M:862:PRO:HB3	2:M:929:ARG:HH22	1.63	0.64
3:N:102:ILE:O	3:N:102:ILE:HD13	1.98	0.64
3:N:693:GLU:HG3	4:O:48:MET:HE1	1.79	0.64
3:N:1107:VAL:HG23	3:N:1219:GLU:O	1.98	0.64
2:C:498:GLN:HA	2:C:498:GLN:HE21	1.63	0.64
3:D:638:LYS:HA	3:D:932:ASP:OD1	1.97	0.64
1:G:20:TYR:HD2	1:G:21:GLY:N	1.95	0.64
2:H:129:ILE:HD11	2:H:386:PHE:HD2	1.62	0.64
2:H:148:PHE:CE1	2:H:309:TYR:CD1	2.86	0.64
2:H:862:PRO:HB3	2:H:929:ARG:HH22	1.63	0.64
2:H:964:LYS:O	2:H:968:LEU:HG	1.97	0.64
3:I:785:ILE:H	3:I:785:ILE:CD1	2.01	0.64
2:M:170:PRO:HD3	2:M:263:ASP:CB	2.11	0.64
2:M:257:VAL:HG12	2:M:263:ASP:OD2	1.98	0.64
2:M:258:TYR:CE2	2:M:290:LEU:HD11	2.32	0.64
3:N:89:ARG:O	3:N:521:PRO:HG3	1.97	0.64
3:N:411:THR:HG23	3:N:436:GLU:HA	1.80	0.64
2:C:101:ILE:HA	2:C:108:ILE:HG12	1.80	0.64
2:C:976:ASP:CB	2:C:979:THR:HG22	2.26	0.64
3:D:166:GLN:HG2	3:D:396:VAL:CG1	2.24	0.64
1:F:171:PHE:O	1:F:173:PRO:HD3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:80:LEU:HG	3:I:844:ALA:CB	2.27	0.64
1:G:112:ARG:HG3	1:G:125:PRO:CA	2.28	0.64
2:H:64:LEU:CB	2:H:359:MET:HG3	2.25	0.64
2:H:569:VAL:HG12	2:H:996:LYS:O	1.98	0.64
3:I:1123:PHE:CE2	3:I:1184:GLN:HG3	2.33	0.64
2:M:565:GLN:HE21	2:M:842:ARG:CG	2.04	0.64
3:N:178:LEU:HD12	3:N:178:LEU:N	2.11	0.64
1:A:88:ARG:HD3	1:A:123:MET:HE1	1.80	0.64
1:B:187:GLY:CA	3:D:685:ASP:HB3	2.21	0.64
2:C:140:ILE:CD1	2:C:412:ALA:HA	2.27	0.64
2:C:697:ARG:HG3	2:C:699:PHE:CD1	2.32	0.64
2:C:957:LYS:CD	2:C:961:GLU:HB3	2.26	0.64
3:D:159:ARG:HD2	2:H:222:MET:HE1	1.79	0.64
3:D:166:GLN:CG	3:D:396:VAL:HG12	2.21	0.64
3:D:554:LEU:O	3:D:558:LEU:HG	1.98	0.64
1:F:49:PRO:HB3	1:F:148:VAL:HG22	1.80	0.64
1:G:80:LEU:CG	3:I:844:ALA:HA	2.27	0.64
3:I:111:LYS:HD3	3:I:1448:THR:HG22	1.79	0.64
3:I:1107:VAL:HG12	3:I:1217:ILE:HA	1.80	0.64
1:L:74:ASP:CB	3:N:872:ARG:NH2	2.54	0.64
2:M:144:PRO:HB3	2:M:164:PRO:HA	1.79	0.64
2:M:217:LEU:HD12	2:M:311:PHE:CB	2.27	0.64
2:M:500:ASN:OD1	3:N:1067:VAL:HG23	1.98	0.64
3:N:191:LEU:O	3:N:192:ALA:HB2	1.97	0.64
3:N:638:LYS:HA	3:N:932:ASP:OD1	1.97	0.64
2:C:224:GLU:HB3	2:C:228:ALA:N	2.13	0.64
2:C:964:LYS:O	2:C:968:LEU:HG	1.97	0.64
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.80	0.64
3:D:367:ILE:HB	3:D:377:VAL:CG1	2.28	0.64
3:D:1146:GLY:HA3	3:D:1207:TYR:HB3	1.80	0.64
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.79	0.64
2:H:342:ASP:O	2:H:346:VAL:HG23	1.98	0.64
3:I:826:PRO:O	3:I:829:VAL:HG23	1.97	0.64
3:I:1216:SER:HB3	4:J:15:SER:OG	1.98	0.64
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.78	0.64
1:K:171:PHE:O	1:K:173:PRO:HD3	1.97	0.64
2:M:184:MET:SD	2:M:303:PHE:CE2	2.88	0.64
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.22	0.64
2:M:216:GLU:OE2	2:M:219:GLN:NE2	2.31	0.64
2:M:325:ILE:H	2:M:325:ILE:CD1	2.08	0.64
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:964:LYS:O	2:M:968:LEU:HG	1.97	0.64
2:M:1004:LYS:CD	3:N:744:GLN:NE2	2.57	0.64
2:M:1093:GLN:OE1	3:N:21:TRP:CE3	2.51	0.64
3:N:358:GLY:HA2	3:N:385:VAL:O	1.98	0.64
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.80	0.64
7:Y:19:LEU:HD21	7:Y:23:ARG:HH21	1.62	0.64
7:Y:88:VAL:HG13	7:Y:103:GLN:HB2	1.79	0.64
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.63	0.63
3:I:1317:ASP:OD1	3:I:1318:TYR:N	2.31	0.63
2:M:343:GLN:O	2:M:346:VAL:HB	1.98	0.63
2:M:583:LEU:O	2:M:587:VAL:HG23	1.99	0.63
3:N:50:PHE:CE2	3:N:522:PRO:CG	2.81	0.63
3:N:169:TYR:CZ	3:N:198:ARG:HG3	2.32	0.63
3:N:711:LEU:HD12	3:N:778:LEU:HD23	1.79	0.63
3:N:1099:VAL:O	3:N:1103:HIS:HB3	1.98	0.63
3:N:1114:THR:HG21	3:N:1195:GLN:HB3	1.79	0.63
3:N:1317:ASP:OD1	3:N:1318:TYR:N	2.30	0.63
7:Z:55:LYS:O	7:Z:59:GLU:HG3	1.98	0.63
2:C:224:GLU:OE1	2:C:224:GLU:HA	1.98	0.63
2:C:276:LYS:O	2:C:280:LYS:HB2	1.98	0.63
2:C:1030:GLN:HE21	3:D:628:ARG:HD3	1.63	0.63
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.79	0.63
2:H:122:THR:HG22	2:H:124:ASP:H	1.63	0.63
2:H:571:LEU:HD21	2:H:700:TYR:HA	1.80	0.63
2:H:1004:LYS:HD2	3:I:744:GLN:CD	2.22	0.63
3:I:860:LEU:HD22	3:I:878:GLY:HA2	1.79	0.63
3:I:1161:GLU:CG	3:I:1164:ARG:HB2	2.28	0.63
1:K:42:ARG:NH1	1:L:34:VAL:CB	2.54	0.63
2:M:122:THR:HG22	2:M:124:ASP:H	1.63	0.63
2:M:284:ARG:HG2	2:M:285:LEU:H	1.62	0.63
3:N:758:GLU:HB3	4:O:20:THR:HG21	1.81	0.63
3:N:894:LYS:O	3:N:898:GLU:HG3	1.97	0.63
2:C:80:GLN:HA	2:C:90:TYR:HD2	1.63	0.63
2:C:113:VAL:HG21	2:C:373:VAL:HG21	1.80	0.63
2:C:717:LEU:HB3	2:C:761:PHE:CG	2.33	0.63
2:C:794:PRO:HG2	2:C:1025:ALA:O	1.98	0.63
2:C:862:PRO:HB3	2:C:929:ARG:HH22	1.62	0.63
2:C:1015:LEU:HD12	2:C:1015:LEU:N	2.13	0.63
2:C:1092:LEU:O	2:C:1097:LEU:O	2.16	0.63
3:D:982:PHE:CE1	7:X:125:MET:HE1	2.33	0.63
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:512:ARG:CG	2:H:523:ILE:HD11	2.28	0.63
2:H:589:ARG:HG3	2:H:596:TYR:CE2	2.33	0.63
3:I:50:PHE:O	3:I:89:ARG:CB	2.45	0.63
3:I:50:PHE:CE2	3:I:522:PRO:HD2	2.33	0.63
3:I:414:ARG:HB3	3:I:450:TYR:HE1	1.63	0.63
3:I:650:LEU:HD13	3:I:688:TRP:CZ3	2.32	0.63
3:I:969:ARG:HG3	3:I:970:LYS:H	1.62	0.63
3:I:991:GLN:NE2	7:Y:112:VAL:HG21	2.13	0.63
3:I:1231:GLU:HB3	3:I:1232:PRO:HD3	1.78	0.63
4:J:25:LYS:CA	4:J:28:GLN:HG3	2.27	0.63
2:M:1112:PHE:CD2	2:M:1112:PHE:O	2.51	0.63
3:N:1312:LEU:CD1	3:N:1327:ARG:HH21	2.10	0.63
3:N:1465:ASN:HD21	3:N:1470:ARG:NH2	1.96	0.63
4:O:64:ALA:O	4:O:68:LEU:HD13	1.98	0.63
1:B:25:LEU:O	1:B:28:LEU:HD21	1.98	0.63
2:C:115:LEU:HA	2:C:375:SER:HG	1.63	0.63
2:C:512:ARG:CG	2:C:523:ILE:HD11	2.29	0.63
2:C:876:VAL:O	2:C:879:ARG:O	2.17	0.63
3:D:133:ILE:CG2	3:D:134:VAL:N	2.61	0.63
3:D:881:LEU:CD1	3:D:885:ILE:HD11	2.29	0.63
1:G:86:VAL:HG12	1:G:124:ASN:HD22	1.63	0.63
2:H:182:VAL:O	2:H:193:LEU:CD1	2.47	0.63
2:H:211:LEU:HD11	2:H:311:PHE:CD1	2.34	0.63
2:H:464:LEU:O	2:H:464:LEU:HG	1.99	0.63
2:H:1043:TYR:CE1	3:I:710:ARG:O	2.52	0.63
3:I:179:VAL:HG13	3:I:183:GLU:HB3	1.79	0.63
3:I:711:LEU:HD12	3:I:778:LEU:HD23	1.79	0.63
3:N:1083:ASP:O	3:N:1087:ARG:HB3	1.99	0.63
1:A:11:PHE:HE1	1:A:23:PHE:HB3	1.63	0.63
2:C:897:LEU:HD21	2:C:921:ALA:HA	1.81	0.63
3:D:189:GLN:O	3:D:196:VAL:HG13	1.99	0.63
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.32	0.63
3:D:677:LEU:CD2	3:D:683:ILE:HD13	2.28	0.63
3:D:1078:ARG:HH11	3:D:1078:ARG:CG	2.12	0.63
3:D:1148:VAL:HG13	3:D:1163:GLY:O	1.99	0.63
3:D:1421:LEU:HG	3:D:1421:LEU:O	1.97	0.63
1:F:58:ILE:CD1	1:F:140:MET:HB3	2.23	0.63
2:H:512:ARG:HD3	2:H:523:ILE:HG13	1.80	0.63
2:H:1092:LEU:O	2:H:1097:LEU:O	2.16	0.63
3:I:40:GLU:OE1	3:I:40:GLU:CA	2.42	0.63
3:I:794:GLN:HG2	3:I:1017:PHE:HE2	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:800:LYS:CE	3:I:804:LEU:HD22	2.28	0.63
3:I:1493:LYS:O	3:I:1497:GLU:HG2	1.97	0.63
4:J:26:ARG:HH11	4:J:73:LEU:HD21	1.63	0.63
2:M:204:GLN:CD	2:M:228:ALA:HB1	2.24	0.63
2:M:266:ARG:NH1	2:M:288:ARG:NH2	2.47	0.63
2:M:564:MET:HE2	2:M:846:LYS:CD	2.24	0.63
3:N:133:ILE:HG22	3:N:134:VAL:N	2.12	0.63
3:N:171:LEU:HD23	3:N:172:PRO:N	2.14	0.63
3:N:211:VAL:HG12	3:N:213:VAL:HG23	1.79	0.63
3:N:1286:THR:HG22	3:N:1287:GLU:H	1.63	0.63
6:Q:12:G:H2'	6:Q:13:G:H8	1.62	0.63
2:C:361:MET:CE	3:I:1317:ASP:HB2	2.28	0.63
2:C:1086:ARG:CD	3:D:88:TYR:CE1	2.78	0.63
3:D:158:TYR:CD1	3:D:162:ARG:HB2	2.33	0.63
3:D:646:LYS:HG3	3:D:647:ARG:H	1.64	0.63
1:F:123:MET:O	1:F:125:PRO:HD3	1.99	0.63
2:H:182:VAL:HG12	2:H:193:LEU:CG	2.27	0.63
2:H:861:LEU:CG	2:H:862:PRO:HD2	2.25	0.63
3:I:12:LEU:HD21	3:I:104:PHE:CZ	2.30	0.63
3:I:41:ARG:O	3:I:41:ARG:HD2	1.97	0.63
3:I:127:LEU:HD22	3:I:134:VAL:HG13	1.81	0.63
3:I:141:ILE:HG13	3:I:448:GLU:HG3	1.79	0.63
3:I:407:VAL:HG22	3:I:408:GLU:N	2.09	0.63
3:I:465:LEU:HD11	3:I:509:PRO:O	1.99	0.63
3:I:796:ARG:HD3	3:I:1017:PHE:CE1	2.33	0.63
3:I:1262:LEU:HB3	3:I:1352:ILE:HD11	1.81	0.63
2:M:498:GLN:OE1	3:N:1068:LEU:CD1	2.47	0.63
2:M:512:ARG:CG	2:M:523:ILE:HD11	2.29	0.63
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.81	0.63
2:M:794:PRO:HG2	2:M:1025:ALA:O	1.98	0.63
2:M:850:ALA:HA	3:N:632:VAL:HG13	1.80	0.63
2:M:861:LEU:HG	2:M:862:PRO:CD	2.26	0.63
3:N:1288:GLU:O	3:N:1307:LYS:HG2	1.99	0.63
2:C:21:ILE:HD12	2:C:21:ILE:N	2.07	0.63
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.81	0.63
2:C:1088:LEU:HD21	3:D:614:PHE:CE1	2.33	0.63
3:D:660:LYS:HZ1	3:D:660:LYS:HA	1.62	0.63
2:H:258:TYR:CE2	2:H:290:LEU:HD21	2.34	0.63
3:I:1312:LEU:CD1	3:I:1327:ARG:HH21	2.10	0.63
3:I:1421:LEU:HG	3:I:1421:LEU:O	1.98	0.63
2:M:195:LEU:HD21	2:M:238:LEU:HG	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:212:GLY:C	2:M:214:TYR:H	2.06	0.63
2:M:408:ARG:NH2	2:M:455:LEU:HD11	2.13	0.63
3:N:13:ALA:HB1	3:N:18:ILE:HD11	1.81	0.63
3:N:1094:LEU:HG	3:N:1098:LEU:HD22	1.81	0.63
3:N:1258:ARG:HH21	3:N:1351:GLU:CG	2.11	0.63
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.99	0.63
1:A:42:ARG:HH12	1:B:34:VAL:HG11	1.64	0.63
2:C:409:ARG:HA	2:C:454:SER:HA	1.81	0.63
2:C:512:ARG:HD3	2:C:523:ILE:HG13	1.80	0.63
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.80	0.63
3:D:168:THR:CG2	3:D:169:TYR:N	2.62	0.63
3:D:736:PHE:O	3:D:738:ALA:N	2.32	0.63
1:G:132:LEU:HD11	1:G:138:LEU:HD13	1.81	0.63
2:H:571:LEU:HD11	2:H:700:TYR:HA	1.81	0.63
3:I:646:LYS:HG3	3:I:647:ARG:H	1.64	0.63
3:I:678:GLU:HG3	3:I:679:ARG:HG3	1.81	0.63
3:I:984:THR:HG22	3:I:987:GLU:HG3	1.80	0.63
3:I:1078:ARG:HH11	3:I:1078:ARG:CG	2.12	0.63
3:I:1434:TRP:CZ3	3:I:1457:ASP:HB2	2.34	0.63
1:K:49:PRO:HB3	1:K:148:VAL:HG22	1.80	0.63
1:L:94:LEU:HD11	1:L:119:ASP:HB2	1.79	0.63
2:M:1092:LEU:O	2:M:1097:LEU:O	2.16	0.63
3:N:501:ALA:HB1	3:N:1452:ILE:HG22	1.79	0.63
3:N:881:LEU:CD1	3:N:885:ILE:HD11	2.29	0.63
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.79	0.63
1:A:158:ILE:H	1:A:158:ILE:HD12	1.64	0.63
2:C:48:PHE:O	2:C:52:PHE:HB2	1.99	0.63
2:C:1035:MET:HB3	2:C:1036:GLU:OE1	1.99	0.63
2:C:1092:LEU:CD1	2:C:1099:VAL:HG21	2.14	0.63
3:D:163:TYR:O	2:H:209:ARG:CZ	2.47	0.63
3:D:520:LEU:HD11	3:D:524:LEU:HD22	1.81	0.63
3:D:711:LEU:HD12	3:D:778:LEU:HD23	1.79	0.63
3:D:1109:GLU:CG	3:D:1201:CYS:HB2	2.29	0.63
3:D:1286:THR:O	3:D:1287:GLU:HB2	1.99	0.63
3:D:1495:ILE:CD1	4:E:88:GLU:HG3	2.29	0.63
2:H:840:ALA:HB2	2:H:846:LYS:HA	1.80	0.63
3:I:414:ARG:HB3	3:I:450:TYR:CE1	2.34	0.63
3:I:620:GLY:O	3:I:621:LYS:NZ	2.30	0.63
3:I:1209:LEU:HD11	4:J:16:LYS:HD2	1.79	0.63
4:J:47:LYS:HA	4:J:54:LEU:HB3	1.81	0.63
1:K:88:ARG:HD3	1:K:123:MET:HE1	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:11:ALA:HB1	3:N:507:ASN:HD22	1.64	0.63
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.28	0.63
7:X:17:GLN:O	7:X:21:ARG:HD3	1.98	0.63
1:B:26:GLU:HB2	1:B:27:PRO:HA	1.81	0.62
2:C:861:LEU:CG	2:C:862:PRO:HD2	2.25	0.62
3:D:123:LEU:HD21	3:D:151:GLN:NE2	2.14	0.62
2:H:154:ARG:NH1	2:H:178:PRO:HD2	2.13	0.62
2:H:666:LEU:HD12	2:H:667:ALA:N	2.14	0.62
1:L:25:LEU:O	1:L:28:LEU:HD21	1.98	0.62
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.33	0.62
2:M:199:VAL:HG11	2:M:235:LEU:HG	1.79	0.62
2:M:221:LEU:C	2:M:223:ASP:N	2.53	0.62
2:M:328:LEU:C	2:M:330:ASN:H	2.07	0.62
2:M:666:LEU:HD12	2:M:667:ALA:N	2.13	0.62
2:M:730:SER:O	2:M:734:LEU:HD13	1.99	0.62
2:M:876:VAL:O	2:M:879:ARG:O	2.17	0.62
3:N:179:VAL:HA	3:N:183:GLU:OE2	1.99	0.62
3:N:879:ARG:HH21	3:N:903:ASP:C	2.07	0.62
3:N:1105:ILE:N	3:N:1105:ILE:HD12	2.14	0.62
7:Z:137:VAL:C	7:Z:138:LEU:HD23	2.23	0.62
3:D:93:ILE:HD13	3:D:547:LEU:HD23	1.81	0.62
3:D:789:LEU:HD13	3:D:911:LEU:HD21	1.81	0.62
3:D:1487:VAL:HG11	3:D:1492:LEU:HD23	1.81	0.62
1:F:46:SER:HB3	2:H:856:GLU:HG2	1.80	0.62
2:H:159:ILE:HD12	2:H:159:ILE:O	1.99	0.62
2:H:516:ARG:HE	3:I:1068:LEU:HD13	1.62	0.62
2:H:1032:PHE:O	2:H:1033:GLY:O	2.16	0.62
2:H:1058:ASP:OD2	2:H:1083:GLU:HB2	1.98	0.62
3:I:600:LEU:H	3:I:600:LEU:HD12	1.64	0.62
3:I:789:LEU:HD13	3:I:911:LEU:HD21	1.81	0.62
1:K:31:GLY:N	1:K:193:ASP:OD1	2.26	0.62
1:L:79:ILE:HD12	1:L:167:VAL:HG13	1.81	0.62
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.80	0.62
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.33	0.62
3:N:1033:GLN:NE2	7:Z:54:GLU:OE2	2.32	0.62
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	1.99	0.62
3:N:1330:ILE:HD12	3:N:1330:ILE:N	2.14	0.62
3:N:1462:LEU:O	3:N:1466:VAL:HG23	1.98	0.62
7:X:127:LYS:C	7:X:127:LYS:HD3	2.24	0.62
2:C:253:ALA:O	2:C:257:VAL:HG23	1.99	0.62
2:C:557:ARG:HG2	2:C:881:ASN:ND2	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:547:LEU:CD1	3:D:578:VAL:HG22	2.29	0.62
3:D:1359:GLN:O	7:X:37:MET:SD	2.56	0.62
2:H:408:ARG:NH2	2:H:455:LEU:HD11	2.12	0.62
2:H:1086:ARG:NE	3:I:88:TYR:HE2	1.97	0.62
2:M:127:PHE:CD1	2:M:136:ILE:HD13	2.34	0.62
2:M:391:LEU:O	2:M:391:LEU:HD23	1.99	0.62
3:N:465:LEU:HD11	3:N:509:PRO:O	1.99	0.62
3:N:1041:LEU:HD12	3:N:1058:ARG:O	1.99	0.62
3:N:1421:LEU:HG	3:N:1421:LEU:O	1.98	0.62
2:C:101:ILE:HD13	2:C:108:ILE:HG23	1.81	0.62
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.80	0.62
2:C:503:LEU:HD23	2:C:507:ARG:O	1.99	0.62
2:C:939:ARG:HE	2:C:939:ARG:CA	2.06	0.62
2:C:1005:MET:SD	3:D:724:GLN:OE1	2.57	0.62
3:D:50:PHE:CD1	3:D:522:PRO:HG2	2.34	0.62
3:D:152:LEU:H	3:D:152:LEU:CD2	2.13	0.62
3:D:561:GLY:O	3:D:563:PRO:HD2	2.00	0.62
3:D:767:HIS:HA	3:D:924:MET:SD	2.39	0.62
3:D:868:TYR:CE1	3:D:869:MET:HG3	2.34	0.62
3:D:1495:ILE:HD13	4:E:88:GLU:HG3	1.80	0.62
1:F:102:LYS:HD3	1:F:139:ASN:HD21	1.64	0.62
3:I:152:LEU:N	3:I:152:LEU:HD23	2.15	0.62
3:I:618:LEU:HD13	3:I:1463:LYS:HE2	1.80	0.62
3:I:879:ARG:HH21	3:I:903:ASP:C	2.07	0.62
1:K:123:MET:O	1:K:125:PRO:HD3	1.99	0.62
2:M:391:LEU:C	2:M:393:GLN:NE2	2.57	0.62
2:M:512:ARG:HD3	2:M:523:ILE:HG13	1.80	0.62
2:M:1046:ALA:HB2	3:N:1476:THR:CB	2.29	0.62
3:N:171:LEU:HA	3:N:195:VAL:HG21	1.80	0.62
3:N:868:TYR:CE1	3:N:869:MET:HG3	2.34	0.62
5:R:17:DG:H2'	5:R:18:DC:C6	2.34	0.62
2:C:217:LEU:O	2:C:219:GLN:N	2.31	0.62
3:D:210:ARG:HB3	3:D:389:GLU:HG3	1.81	0.62
3:D:1366:LYS:O	3:D:1369:GLU:HB2	1.99	0.62
2:H:221:LEU:C	2:H:223:ASP:N	2.57	0.62
2:H:660:ALA:O	2:H:667:ALA:HB3	2.00	0.62
3:I:202:VAL:HG11	3:I:445:ARG:HH21	1.64	0.62
3:I:1041:LEU:HD12	3:I:1058:ARG:O	1.99	0.62
4:J:51:LEU:HG	4:J:53:GLY:H	1.62	0.62
1:L:12:THR:OG1	1:L:24:VAL:HB	1.99	0.62
2:M:516:ARG:HG3	3:N:1068:LEU:CD1	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:142:LEU:HD22	3:N:145:VAL:C	2.23	0.62
3:N:650:LEU:HD13	3:N:688:TRP:CZ3	2.31	0.62
3:N:1252:ILE:HG13	3:N:1253:THR:H	1.64	0.62
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.80	0.62
1:B:102:LYS:HB2	1:B:139:ASN:OD1	1.99	0.62
2:C:497:ALA:HA	2:C:515:ALA:HA	1.82	0.62
3:D:54:LYS:CD	3:D:55:ASP:H	2.12	0.62
3:D:108:VAL:HB	3:D:109:PRO:CD	2.29	0.62
3:D:116:LEU:O	3:D:117:ASP:CB	2.47	0.62
3:D:465:LEU:HD11	3:D:509:PRO:O	1.99	0.62
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	1.81	0.62
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.29	0.62
3:D:1330:ILE:N	3:D:1330:ILE:HD12	2.15	0.62
2:H:263:ASP:HB2	2:H:264:PRO:HD3	1.81	0.62
2:H:794:PRO:CD	2:H:1024:LYS:O	2.47	0.62
3:I:111:LYS:HD3	3:I:1448:THR:CG2	2.29	0.62
3:I:838:ARG:HB3	3:I:865:THR:CG2	2.30	0.62
3:I:1047:LYS:HB3	3:I:1048:PRO:HD2	1.80	0.62
3:I:1114:THR:HG23	3:I:1114:THR:O	1.99	0.62
3:I:1487:VAL:HG12	3:I:1488:ASP:N	2.14	0.62
1:K:42:ARG:HH12	1:L:34:VAL:CG1	2.12	0.62
1:K:64:GLU:OE1	2:M:830:LYS:HE2	2.00	0.62
1:L:34:VAL:HG11	2:M:978:ARG:HB3	1.82	0.62
2:M:683:ASN:HB2	2:M:872:ASN:HB2	1.81	0.62
3:N:736:PHE:O	3:N:738:ALA:N	2.32	0.62
1:B:115:LEU:HD12	1:B:115:LEU:O	1.99	0.62
2:C:124:ASP:HB2	2:C:407:LYS:NZ	2.15	0.62
2:C:216:GLU:HG3	2:C:216:GLU:O	2.00	0.62
3:D:408:GLU:HG3	3:D:409:VAL:H	1.64	0.62
3:D:879:ARG:HH21	3:D:903:ASP:C	2.07	0.62
3:D:1114:THR:HG23	3:D:1114:THR:O	2.00	0.62
3:D:1114:THR:HG22	3:D:1195:GLN:HB3	1.81	0.62
3:D:1145:TYR:O	3:D:1147:ARG:HG2	2.00	0.62
3:D:1262:LEU:HB3	3:D:1352:ILE:HD11	1.81	0.62
1:F:31:GLY:H	1:F:193:ASP:CG	2.07	0.62
1:G:226:SER:O	1:G:228:PRO:HD3	1.99	0.62
3:I:133:ILE:HD12	3:I:158:TYR:CD2	2.34	0.62
3:I:142:LEU:HD23	3:I:146:PRO:CA	2.28	0.62
3:I:1330:ILE:HD12	3:I:1330:ILE:N	2.14	0.62
2:M:432:ARG:HH12	3:N:1047:LYS:HG2	1.65	0.62
2:M:660:ALA:CB	2:M:667:ALA:O	2.37	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1038:TRP:HA	2:M:1041:GLU:HG3	1.82	0.62
3:N:205:TYR:HD1	3:N:390:PRO:CB	2.13	0.62
3:N:783:ARG:NE	7:Z:41:ASP:OD2	2.31	0.62
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.80	0.62
7:X:99:ARG:HH11	7:X:99:ARG:HG3	1.63	0.62
1:B:54:THR:HG22	1:B:156:HIS:CE1	2.34	0.62
1:B:185:ARG:CZ	3:D:692:GLU:CG	2.72	0.62
2:C:479:VAL:HG22	2:C:506:ASN:HA	1.81	0.62
2:C:1008:ARG:HH22	2:C:1011:GLY:C	2.07	0.62
3:D:406:ASP:O	3:D:422:ALA:HB1	1.99	0.62
2:H:140:ILE:CD1	2:H:412:ALA:HA	2.28	0.62
2:H:447:ALA:O	2:H:448:ASN:HB2	2.00	0.62
3:I:202:VAL:HG11	3:I:445:ARG:NE	2.14	0.62
3:I:881:LEU:CD1	3:I:885:ILE:HD11	2.29	0.62
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.34	0.62
2:M:332:ARG:C	2:M:333:ILE:HD12	2.25	0.62
2:M:536:PRO:HB3	2:M:906:PHE:HD1	1.65	0.62
2:M:600:ASP:OD1	2:M:650:ARG:HA	2.00	0.62
2:M:693:GLU:OE1	2:M:696:LYS:HD2	2.00	0.62
2:M:759:THR:HB	2:M:785:VAL:CG2	2.29	0.62
2:M:1012:PRO:HD2	2:M:1026:GLN:HB2	1.82	0.62
3:N:456:MET:SD	3:N:568:ARG:NE	2.73	0.62
1:A:123:MET:O	1:A:125:PRO:HD3	1.99	0.62
1:B:12:THR:OG1	1:B:24:VAL:HB	1.99	0.62
2:C:508:ILE:CD1	2:C:526:PRO:HB3	2.30	0.62
3:D:482:LYS:HE2	3:D:1388:ARG:HH22	1.64	0.62
3:D:758:GLU:HA	4:E:20:THR:CG2	2.29	0.62
3:D:1112:CYS:HB2	3:D:1195:GLN:CG	2.24	0.62
1:G:134:GLU:HG3	3:N:821:VAL:HG12	1.82	0.62
2:H:242:LEU:O	2:H:243:ARG:CB	2.46	0.62
2:H:327:HIS:CE1	2:H:489:THR:HA	2.35	0.62
3:I:171:LEU:HB2	3:I:391:ALA:O	2.00	0.62
3:I:546:ARG:HH12	3:I:550:ARG:NH2	1.97	0.62
3:I:642:CYS:HB3	3:I:716:PHE:CB	2.29	0.62
3:I:754:PHE:HZ	4:J:21:VAL:HG13	1.65	0.62
2:M:111:ASP:HB3	2:M:369:PRO:HG3	1.80	0.62
2:M:154:ARG:NH1	2:M:178:PRO:CD	2.62	0.62
2:M:284:ARG:HG2	2:M:285:LEU:N	2.15	0.62
2:M:680:ASP:O	3:N:939:PHE:HB3	2.00	0.62
3:N:131:LYS:O	3:N:133:ILE:N	2.32	0.62
3:N:646:LYS:HG3	3:N:647:ARG:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.30	0.62
3:N:1155:VAL:HG12	3:N:1177:ALA:HB1	1.82	0.62
1:G:73:GLU:HG3	1:G:130:ALA:HA	1.80	0.62
2:H:293:PHE:CD1	2:H:293:PHE:N	2.65	0.62
2:H:703:ILE:HD12	2:H:703:ILE:N	2.14	0.62
3:I:204:LEU:CB	3:I:394:LEU:HG	2.21	0.62
3:I:555:LYS:HA	3:I:558:LEU:CD1	2.29	0.62
3:I:1007:VAL:HG11	3:I:1039:CYS:HB2	1.81	0.62
2:M:44:ILE:HG23	2:M:344:PHE:CE1	2.35	0.62
2:M:261:ILE:HD12	2:M:261:ILE:N	2.14	0.62
2:M:443:THR:HG21	3:N:1078:ARG:HD2	1.82	0.62
2:M:1046:ALA:CB	3:N:1476:THR:OG1	2.47	0.62
3:N:39:PRO:HG2	3:N:47:GLU:OE2	2.00	0.62
3:N:102:ILE:HD12	3:N:586:ARG:HG3	1.81	0.62
3:N:171:LEU:HD23	3:N:172:PRO:O	1.99	0.62
3:N:1156:LEU:HD13	3:N:1176:LYS:HE3	1.81	0.62
7:Z:12:TYR:OH	7:Z:16:MET:HE3	2.00	0.62
7:Z:84:GLY:HA2	7:Z:130:LEU:HD12	1.80	0.62
1:A:156:HIS:CD2	1:A:157:GLY:N	2.66	0.61
1:A:189:ARG:CG	1:A:189:ARG:HH11	2.13	0.61
2:C:307:LEU:HD11	2:C:311:PHE:CE2	2.34	0.61
2:C:412:ALA:HB1	2:C:419:THR:HG21	1.82	0.61
2:C:690:ILE:HG13	2:C:694:LEU:HD12	1.82	0.61
3:D:13:ALA:HB1	3:D:18:ILE:HD11	1.81	0.61
3:D:47:GLU:O	3:D:51:GLY:CA	2.48	0.61
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.30	0.61
3:D:1433:SER:OG	3:D:1457:ASP:OD2	2.18	0.61
2:H:204:GLN:CD	2:H:228:ALA:HB1	2.25	0.61
2:H:443:THR:HG21	3:I:1078:ARG:NE	2.15	0.61
3:I:438:ASP:CG	3:I:441:ARG:NH2	2.58	0.61
3:I:457:GLY:O	3:I:459:GLU:N	2.33	0.61
3:I:736:PHE:O	3:I:738:ALA:N	2.32	0.61
2:M:794:PRO:CG	2:M:1025:ALA:HA	2.29	0.61
2:M:1061:GLU:HB2	3:N:84:ILE:HD13	1.80	0.61
3:N:398:ALA:HB2	3:N:447:VAL:HG12	1.80	0.61
3:N:841:TYR:HB2	3:N:864:VAL:CG1	2.30	0.61
3:N:1110:ALA:O	3:N:1111:ASP:C	2.42	0.61
3:N:1366:LYS:O	3:N:1369:GLU:HB2	1.99	0.61
7:Y:89:VAL:HG12	7:Y:91:LEU:CD2	2.29	0.61
3:D:642:CYS:HB3	3:D:716:PHE:CB	2.29	0.61
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:834:THR:HB	3:D:838:ARG:HB2	1.82	0.61
3:D:850:LEU:HD12	3:D:850:LEU:H	1.65	0.61
1:F:73:GLU:HB2	1:F:78:ILE:CD1	2.29	0.61
2:H:40:GLU:HG2	2:H:42:VAL:HG22	1.83	0.61
2:H:676:ILE:O	2:H:676:ILE:HG23	1.99	0.61
3:I:202:VAL:HB	3:I:396:VAL:HG22	1.82	0.61
3:I:205:TYR:HA	3:I:392:SER:O	2.00	0.61
3:I:841:TYR:HB2	3:I:864:VAL:CG1	2.30	0.61
3:I:1107:VAL:CG1	3:I:1217:ILE:HA	2.29	0.61
1:L:133:GLU:HG3	1:L:134:GLU:N	2.14	0.61
2:M:64:LEU:HD22	2:M:359:MET:CB	2.29	0.61
2:M:111:ASP:CG	2:M:369:PRO:CG	2.70	0.61
3:N:389:GLU:N	3:N:390:PRO:HD3	2.15	0.61
3:N:519:VAL:HA	3:N:544:TYR:OH	2.00	0.61
3:N:581:LEU:H	3:N:581:LEU:CD2	2.14	0.61
3:N:642:CYS:HB3	3:N:716:PHE:CB	2.29	0.61
3:N:860:LEU:HD23	3:N:877:PRO:HB2	1.82	0.61
3:N:1078:ARG:HH11	3:N:1078:ARG:CG	2.12	0.61
4:O:59:ASN:OD1	4:O:61:VAL:HG22	1.99	0.61
2:C:260:LEU:HB3	2:C:293:PHE:CE2	2.35	0.61
2:C:408:ARG:HH21	2:C:455:LEU:HD12	1.64	0.61
2:C:1081:VAL:HG21	2:C:1111:ILE:HG23	1.82	0.61
3:D:1041:LEU:HD12	3:D:1058:ARG:O	2.00	0.61
3:D:1257:PRO:HA	3:D:1260:ILE:HD12	1.82	0.61
3:D:1261:GLU:O	3:D:1264:GLU:O	2.18	0.61
3:D:1359:GLN:O	7:X:37:MET:CE	2.48	0.61
2:H:17:PRO:HB2	2:H:20:GLU:HB3	1.82	0.61
2:H:808:ARG:O	2:H:810:ASP:N	2.34	0.61
3:I:477:LEU:HD11	3:I:495:ARG:HG2	1.83	0.61
1:L:32:PHE:HA	1:L:35:THR:OG1	2.00	0.61
2:M:56:GLU:HG2	2:M:356:ARG:HG3	1.82	0.61
2:M:334:ARG:HG2	2:M:338:GLU:OE1	2.01	0.61
2:M:889:HIS:CD2	3:N:951:ILE:HG22	2.34	0.61
3:N:692:GLU:OE1	3:N:720:LEU:HD13	2.00	0.61
3:N:785:ILE:H	3:N:785:ILE:CD1	2.01	0.61
3:N:864:VAL:HG12	3:N:865:THR:H	1.65	0.61
3:N:1262:LEU:HB3	3:N:1352:ILE:HD11	1.81	0.61
4:O:54:LEU:HD23	4:O:54:LEU:O	1.99	0.61
1:B:185:ARG:HD3	3:D:692:GLU:OE2	2.01	0.61
2:C:99:GLN:HA	2:C:109:LYS:O	1.99	0.61
2:C:332:ARG:C	2:C:333:ILE:HD12	2.25	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:498:GLN:OE1	3:D:1067:VAL:HB	2.00	0.61
3:D:30:GLU:HA	3:D:30:GLU:OE1	2.00	0.61
3:D:580:ALA:HA	3:D:584:ASN:OD1	2.00	0.61
3:D:759:ALA:HA	3:D:763:MET:HE2	1.82	0.61
3:D:841:TYR:HB2	3:D:864:VAL:CG1	2.30	0.61
2:H:292:ARG:HB2	2:H:299:LYS:HE2	1.81	0.61
2:H:876:VAL:O	2:H:879:ARG:O	2.17	0.61
3:I:875:THR:HG22	3:I:879:ARG:HB2	1.83	0.61
2:M:840:ALA:HB2	2:M:846:LYS:HA	1.80	0.61
3:N:350:HIS:HD2	3:N:371:ILE:HG12	1.65	0.61
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.82	0.61
3:N:789:LEU:HD13	3:N:911:LEU:HD21	1.82	0.61
3:N:826:PRO:HD2	3:N:829:VAL:HG22	1.82	0.61
3:N:1251:ASP:O	3:N:1252:ILE:HB	2.00	0.61
3:N:1252:ILE:HG13	3:N:1253:THR:N	2.14	0.61
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.29	0.61
7:Y:55:LYS:O	7:Y:59:GLU:HG3	2.00	0.61
1:B:55:SER:HA	1:B:167:VAL:HG23	1.81	0.61
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.83	0.61
2:C:297:GLU:HG2	2:C:298:PHE:N	2.16	0.61
2:C:585:GLU:OE2	2:C:589:ARG:HD2	2.00	0.61
3:D:802:ALA:O	3:D:803:GLY:O	2.18	0.61
1:G:26:GLU:HB2	1:G:27:PRO:HA	1.81	0.61
1:G:188:GLN:HG2	3:I:685:ASP:OD1	2.00	0.61
2:H:897:LEU:HD21	2:H:921:ALA:HA	1.81	0.61
3:I:118:LEU:O	3:I:120:ALA:N	2.34	0.61
3:I:137:PRO:HD3	3:I:453:ASP:HB2	1.82	0.61
3:I:405:ASP:N	3:I:423:ASP:OD1	2.33	0.61
3:I:581:LEU:H	3:I:581:LEU:CD2	2.13	0.61
3:I:868:TYR:CE1	3:I:869:MET:HG3	2.34	0.61
3:I:1257:PRO:HA	3:I:1260:ILE:CD1	2.27	0.61
4:J:69:LEU:HD23	4:J:70:THR:HG22	1.82	0.61
1:K:42:ARG:NH2	1:L:31:GLY:O	2.33	0.61
1:L:56:VAL:O	1:L:165:ILE:HD13	2.01	0.61
3:N:30:GLU:OE1	3:N:30:GLU:HA	2.00	0.61
2:C:81:ASP:HA	2:C:84:ARG:HH11	1.64	0.61
2:C:92:ALA:HB2	2:C:120:LEU:HD11	1.83	0.61
2:C:170:PRO:HD3	2:C:263:ASP:HB3	1.80	0.61
2:C:660:ALA:O	2:C:667:ALA:HB3	2.00	0.61
3:D:704:ARG:HH12	3:D:743:ASP:CG	2.09	0.61
3:D:1102:THR:CA	3:D:1105:ILE:HD13	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:12:THR:OG1	1:G:24:VAL:HB	1.99	0.61
2:H:171:TRP:C	2:H:172:ILE:HD12	2.25	0.61
2:H:188:LYS:HB2	2:H:188:LYS:HZ3	1.62	0.61
2:H:191:PHE:CD2	2:H:192:PRO:O	2.54	0.61
2:H:343:GLN:O	2:H:346:VAL:HB	2.01	0.61
2:H:559:LEU:C	2:H:559:LEU:HD23	2.25	0.61
2:H:675:ALA:HB2	2:H:867:VAL:HG11	1.81	0.61
3:I:139:GLY:HA3	3:I:162:ARG:NH2	2.15	0.61
3:I:202:VAL:O	3:I:396:VAL:N	2.32	0.61
3:I:957:PRO:CG	3:I:1007:VAL:HA	2.31	0.61
3:I:1112:CYS:HB2	3:I:1195:GLN:CG	2.28	0.61
3:I:1122:LEU:CD1	3:I:1186:VAL:HG23	2.30	0.61
4:J:28:GLN:HB3	4:J:32:ARG:HH12	1.66	0.61
2:M:580:MET:HE2	2:M:902:ILE:HG12	1.83	0.61
2:M:759:THR:HB	2:M:785:VAL:HG22	1.81	0.61
3:N:154:THR:HG23	3:N:157:GLU:HB2	1.83	0.61
3:N:956:ILE:HD13	3:N:1062:ARG:HH21	1.66	0.61
3:N:1003:VAL:HG11	3:N:1041:LEU:CD2	2.31	0.61
4:O:6:ILE:HD11	4:O:10:PHE:CE1	2.36	0.61
7:Y:6:LYS:C	7:Y:7:LEU:HD23	2.25	0.61
2:C:1032:PHE:O	2:C:1033:GLY:O	2.18	0.61
3:D:159:ARG:HH12	2:H:218:VAL:HB	1.66	0.61
3:D:554:LEU:HD22	3:D:574:LEU:HD22	1.82	0.61
3:D:704:ARG:CB	3:D:736:PHE:HB3	2.31	0.61
3:D:922:LEU:N	3:D:922:LEU:HD23	2.15	0.61
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.64	0.61
1:F:156:HIS:CD2	1:F:157:GLY:N	2.66	0.61
2:H:19:THR:HG23	2:H:404:LEU:HD11	1.81	0.61
2:H:30:LEU:HB3	2:H:44:ILE:HG13	1.82	0.61
3:I:182:GLY:CA	3:I:441:ARG:HH11	2.13	0.61
3:I:615:ARG:HD2	3:I:619:LEU:HD21	1.82	0.61
2:M:673:LEU:HD22	2:M:867:VAL:HG12	1.83	0.61
3:N:181:ASP:O	3:N:204:LEU:HA	1.99	0.61
3:N:477:LEU:HD11	3:N:495:ARG:HG2	1.82	0.61
3:N:520:LEU:HD11	3:N:524:LEU:HD22	1.81	0.61
3:N:567:ILE:O	3:N:571:LYS:HG2	2.01	0.61
3:N:922:LEU:HD23	3:N:922:LEU:N	2.16	0.61
3:N:1353:GLN:O	3:N:1357:ARG:HG3	2.00	0.61
7:X:139:SER:CB	7:X:148:GLU:HG3	2.30	0.61
7:Z:89:VAL:CG1	7:Z:151:VAL:HG13	2.31	0.61
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:57:TYR:CE2	1:B:161:ARG:HG2	2.36	0.61
2:C:108:ILE:HG22	2:C:109:LYS:N	2.15	0.61
2:C:342:ASP:O	2:C:345:ARG:HG2	2.01	0.61
2:C:544:THR:O	2:C:547:ILE:CD1	2.49	0.61
2:C:559:LEU:C	2:C:559:LEU:HD23	2.26	0.61
2:C:1035:MET:HA	2:C:1038:TRP:CE3	2.35	0.61
3:D:457:GLY:O	3:D:459:GLU:N	2.33	0.61
3:D:1121:PRO:HB2	3:D:1135:ARG:NH1	1.98	0.61
3:D:1123:PHE:CZ	3:D:1178:ALA:HB1	2.35	0.61
3:D:1273:VAL:HG21	3:D:1305:LEU:HD21	1.81	0.61
4:E:41:GLU:OE1	4:E:42:PRO:HD3	2.01	0.61
1:F:158:ILE:HD12	1:F:158:ILE:H	1.64	0.61
2:H:418:LEU:N	2:H:418:LEU:HD12	2.16	0.61
3:I:123:LEU:HD11	3:I:152:LEU:HD21	1.82	0.61
3:I:847:ASP:O	3:I:851:LEU:HG	2.01	0.61
1:L:26:GLU:HB2	1:L:27:PRO:HA	1.81	0.61
1:L:102:LYS:HZ1	1:L:137:ARG:HH12	1.47	0.61
2:M:52:PHE:CE1	2:M:67:ASP:C	2.79	0.61
2:M:195:LEU:O	2:M:198:ARG:HB2	2.00	0.61
2:M:544:THR:O	2:M:547:ILE:CD1	2.49	0.61
2:M:559:LEU:HD23	2:M:559:LEU:C	2.26	0.61
2:M:676:ILE:HG23	2:M:676:ILE:O	2.00	0.61
2:M:808:ARG:O	2:M:810:ASP:N	2.34	0.61
3:N:432:TYR:CD2	3:N:450:TYR:HE2	2.17	0.61
3:N:957:PRO:HG2	3:N:1007:VAL:HA	1.83	0.61
3:N:997:THR:HG21	7:Z:61:ARG:NH1	2.15	0.61
3:N:1066:THR:CG2	3:N:1069:GLU:HB2	2.26	0.61
4:O:85:LEU:HD23	4:O:85:LEU:C	2.26	0.61
2:C:654:LEU:HD13	2:C:663:ASN:C	2.26	0.61
2:C:666:LEU:HD12	2:C:667:ALA:N	2.14	0.61
2:C:808:ARG:O	2:C:810:ASP:N	2.34	0.61
3:D:118:LEU:O	3:D:119:SER:C	2.43	0.61
3:D:801:GLY:O	3:D:802:ALA:HB2	1.99	0.61
3:D:826:PRO:HD2	3:D:829:VAL:HG22	1.82	0.61
2:H:544:THR:O	2:H:547:ILE:CD1	2.49	0.61
3:I:704:ARG:CB	3:I:736:PHE:HB3	2.31	0.61
2:M:577:PRO:HG3	2:M:993:PHE:CE1	2.35	0.61
3:N:133:ILE:HG23	3:N:455:ARG:O	1.99	0.61
3:N:168:THR:HG22	3:N:170:PRO:CD	2.29	0.61
3:N:203:ALA:HB1	3:N:393:ILE:CG2	2.30	0.61
3:N:617:ASN:HD22	3:N:1466:VAL:HG12	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:907:GLU:HG2	3:N:909:ASN:H	1.66	0.61
3:N:1112:CYS:HB2	3:N:1195:GLN:CG	2.31	0.61
6:U:14:C:H2'	6:U:15:G:C8	2.35	0.61
7:Y:7:LEU:HA	7:Y:109:GLU:OE2	2.01	0.61
2:C:144:PRO:O	2:C:276:LYS:NZ	2.34	0.61
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.82	0.61
2:C:430:VAL:O	2:C:430:VAL:HG13	2.01	0.61
2:C:697:ARG:HD2	2:C:699:PHE:CE1	2.36	0.61
2:C:1065:ALA:HB1	2:C:1077:PRO:CG	2.18	0.61
2:C:1084:SER:HB3	3:D:617:ASN:OD1	2.00	0.61
3:D:152:LEU:HD23	3:D:152:LEU:N	2.10	0.61
3:D:762:GLN:NE2	4:E:20:THR:CG2	2.42	0.61
2:H:9:ILE:HG13	2:H:9:ILE:O	2.01	0.61
2:H:126:SER:HB3	2:H:395:LYS:HZ2	1.66	0.61
2:H:272:ALA:HA	2:H:464:LEU:HD22	1.82	0.61
3:I:679:ARG:HB2	3:I:682:ASP:OD1	2.01	0.61
3:I:684:LYS:O	3:I:687:VAL:HG23	2.01	0.61
3:I:864:VAL:HG12	3:I:865:THR:H	1.65	0.61
3:I:907:GLU:HG2	3:I:909:ASN:H	1.66	0.61
3:I:956:ILE:HD11	3:I:1062:ARG:CB	2.31	0.61
3:I:1353:GLN:O	3:I:1357:ARG:HG3	2.01	0.61
3:I:1487:VAL:HG12	3:I:1488:ASP:H	1.65	0.61
1:K:80:LEU:HD23	1:K:81:ASN:N	2.16	0.61
2:M:94:LEU:C	2:M:94:LEU:HD12	2.25	0.61
3:N:1025:GLN:HA	3:N:1025:GLN:NE2	2.16	0.61
7:Y:11:GLY:HA3	7:Y:109:GLU:OE1	2.01	0.61
1:B:132:LEU:HD21	1:B:138:LEU:CB	2.30	0.60
2:C:91:GLN:HA	2:C:119:PRO:HA	1.83	0.60
2:C:202:TYR:HB3	2:C:207:LEU:HD12	1.81	0.60
2:C:300:ASP:OD2	2:C:303:PHE:HB2	2.00	0.60
2:C:503:LEU:HD23	2:C:507:ARG:C	2.26	0.60
2:C:1081:VAL:CB	2:C:1111:ILE:HG22	2.30	0.60
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.29	0.60
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.31	0.60
3:D:988:ARG:O	3:D:992:ILE:HG13	2.01	0.60
3:D:1264:GLU:HG2	3:D:1266:ARG:HH21	1.66	0.60
4:E:24:ALA:O	4:E:27:ALA:N	2.34	0.60
2:H:54:ILE:O	2:H:54:ILE:CG2	2.50	0.60
2:H:313:LEU:CB	2:H:320:HIS:HE1	2.14	0.60
2:H:682:TYR:CE1	2:H:851:LYS:HD3	2.36	0.60
2:H:1070:ILE:HG21	3:I:655:PRO:HB2	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1105:LYS:HZ1	2:H:1107:ASN:HB2	1.63	0.60
3:I:23:TYR:O	3:I:49:ILE:CG2	2.49	0.60
3:I:198:ARG:HH11	3:I:198:ARG:HG3	1.66	0.60
3:I:567:ILE:O	3:I:571:LYS:HG2	2.01	0.60
3:I:850:LEU:H	3:I:850:LEU:HD12	1.65	0.60
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.83	0.60
1:L:86:VAL:HG13	1:L:124:ASN:HB2	1.83	0.60
2:M:63:GLY:N	2:M:103:LYS:CG	2.63	0.60
2:M:184:MET:HB2	2:M:193:LEU:CG	2.31	0.60
2:M:690:ILE:HG13	2:M:694:LEU:HD12	1.82	0.60
7:Y:14:ARG:HB3	7:Y:14:ARG:HH11	1.64	0.60
2:C:101:ILE:HG23	2:C:108:ILE:CG1	2.31	0.60
2:C:146:VAL:HB	2:C:281:LEU:HD21	1.82	0.60
3:D:458:ALA:HB2	3:D:575:GLN:HE22	1.66	0.60
3:D:564:GLU:H	2:H:223:ASP:HA	1.66	0.60
3:D:1273:VAL:HG23	3:D:1273:VAL:O	2.00	0.60
1:F:189:ARG:HH11	1:F:189:ARG:CG	2.13	0.60
1:F:206:THR:HG22	1:F:209:GLU:HG3	1.83	0.60
2:H:430:VAL:HG13	2:H:430:VAL:O	2.01	0.60
2:H:939:ARG:HE	2:H:939:ARG:CA	2.06	0.60
2:H:1095:LEU:HB2	3:I:101:HIS:HE1	1.66	0.60
3:I:615:ARG:CG	3:I:619:LEU:HD21	2.31	0.60
3:I:692:GLU:OE1	3:I:720:LEU:HD13	2.01	0.60
3:I:1018:ASN:HB3	3:I:1021:TYR:HB3	1.83	0.60
3:I:1111:ASP:CG	3:I:1203:LYS:HD2	2.26	0.60
3:I:1264:GLU:HG2	3:I:1266:ARG:HH21	1.66	0.60
2:M:143:SER:O	2:M:147:TYR:OH	2.19	0.60
2:M:333:ILE:N	2:M:333:ILE:CD1	2.65	0.60
2:M:660:ALA:O	2:M:667:ALA:HB3	2.00	0.60
2:M:897:LEU:HD21	2:M:921:ALA:HA	1.81	0.60
3:N:167:GLU:CD	3:N:198:ARG:HB2	2.26	0.60
3:N:675:ARG:NH1	3:N:679:ARG:HH11	1.99	0.60
3:N:785:ILE:HD12	3:N:785:ILE:N	2.03	0.60
3:N:850:LEU:H	3:N:850:LEU:HD12	1.65	0.60
3:N:1273:VAL:HG23	3:N:1273:VAL:O	2.00	0.60
7:Z:17:GLN:O	7:Z:21:ARG:HD3	2.01	0.60
2:C:22:GLN:HB3	2:C:121:MET:CE	2.31	0.60
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.36	0.60
2:C:307:LEU:HD12	2:C:310:LEU:HB3	1.82	0.60
2:C:473:ARG:NE	2:C:531:PHE:CZ	2.69	0.60
2:C:571:LEU:HD11	2:C:700:TYR:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:152:LEU:CD2	3:D:152:LEU:N	2.64	0.60
2:H:18:LEU:CD1	2:H:586:ARG:NH1	2.65	0.60
2:H:332:ARG:C	2:H:333:ILE:HD12	2.27	0.60
2:H:571:LEU:CD1	2:H:701:THR:N	2.65	0.60
2:H:690:ILE:HG13	2:H:694:LEU:HD12	1.82	0.60
2:H:697:ARG:HB2	2:H:699:PHE:HD1	1.67	0.60
3:I:656:PHE:HB3	3:I:694:VAL:HG11	1.82	0.60
3:I:1205:TYR:HD2	3:I:1215:VAL:HG21	1.67	0.60
3:I:1329:ALA:C	3:I:1330:ILE:HD12	2.26	0.60
3:I:1366:LYS:O	3:I:1369:GLU:HB2	2.00	0.60
1:L:170:VAL:HG11	3:N:848:GLU:OE2	2.01	0.60
2:M:127:PHE:O	2:M:133:ASP:HA	2.01	0.60
2:M:185:LYS:HG2	2:M:190:LYS:HG3	1.83	0.60
2:M:666:LEU:HD12	2:M:667:ALA:H	1.65	0.60
2:M:966:LEU:HD21	2:M:986:PRO:CG	2.32	0.60
3:N:153:LEU:CD1	3:N:158:TYR:HB2	2.31	0.60
3:N:991:GLN:OE1	7:Z:111:ASN:HA	2.01	0.60
3:N:1388:ARG:NH1	3:N:1388:ARG:HA	2.16	0.60
3:N:1486:VAL:HG12	4:O:22:VAL:HG13	1.84	0.60
5:R:18:DC:H2'	5:R:19:DC:C6	2.36	0.60
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.01	0.60
2:C:676:ILE:HG23	2:C:676:ILE:O	2.00	0.60
2:C:1048:THR:HG21	3:D:763:MET:HE1	1.81	0.60
3:D:160:GLU:CG	3:D:165:LYS:HE3	2.31	0.60
3:D:677:LEU:HD23	3:D:683:ILE:HD13	1.79	0.60
3:D:683:ILE:O	3:D:683:ILE:HG22	1.99	0.60
1:G:62:LEU:CD1	1:G:63:HIS:H	2.11	0.60
2:H:52:PHE:HZ	2:H:98:LEU:HB3	1.67	0.60
2:H:94:LEU:HD12	2:H:95:TYR:N	2.16	0.60
2:H:204:GLN:NE2	2:H:228:ALA:CB	2.64	0.60
2:H:861:LEU:HG	2:H:862:PRO:CD	2.26	0.60
3:I:729:HIS:CE1	3:I:731:LEU:HB2	2.36	0.60
3:I:947:ILE:O	3:I:947:ILE:CD1	2.46	0.60
3:I:1273:VAL:HG23	3:I:1273:VAL:O	2.00	0.60
2:M:235:LEU:CD1	2:M:298:PHE:CZ	2.81	0.60
2:M:654:LEU:H	2:M:654:LEU:CD2	2.13	0.60
3:N:179:VAL:HG13	3:N:183:GLU:CG	2.31	0.60
3:N:400:VAL:HG22	3:N:443:VAL:HG21	1.82	0.60
3:N:704:ARG:CB	3:N:736:PHE:HB3	2.31	0.60
3:N:759:ALA:HA	3:N:763:MET:HE2	1.82	0.60
3:N:847:ASP:O	3:N:851:LEU:HG	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:982:PHE:HB3	7:Z:119:ILE:HD12	1.83	0.60
3:D:477:LEU:HD11	3:D:495:ARG:HG2	1.83	0.60
3:D:847:ASP:O	3:D:851:LEU:HG	2.02	0.60
2:H:333:ILE:HD12	2:H:333:ILE:N	2.16	0.60
2:H:679:PHE:CE2	2:H:853:LEU:HD21	2.37	0.60
3:I:860:LEU:HD23	3:I:877:PRO:HB2	1.82	0.60
1:K:156:HIS:CD2	1:K:157:GLY:N	2.66	0.60
1:K:158:ILE:HD12	1:K:158:ILE:H	1.64	0.60
2:M:100:LEU:O	2:M:108:ILE:HA	2.01	0.60
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.82	0.60
2:M:1034:GLU:OE2	3:N:1096:ARG:NH1	2.35	0.60
3:N:407:VAL:HG22	3:N:408:GLU:N	2.02	0.60
3:N:704:ARG:HH12	3:N:743:ASP:CG	2.08	0.60
3:N:770:LEU:HB2	3:N:1210:SER:O	2.00	0.60
3:N:908:LYS:HB2	3:N:1027:GLY:HA3	1.83	0.60
1:A:9:PRO:HB2	1:B:224:TYR:HB3	1.84	0.60
2:C:98:LEU:H	2:C:98:LEU:HD12	1.66	0.60
2:C:449:ILE:HG21	3:D:1082:ALA:HA	1.84	0.60
2:C:706:GLU:HG2	2:C:708:TYR:CZ	2.36	0.60
3:D:792:ILE:O	3:D:878:GLY:HA3	2.01	0.60
3:D:907:GLU:HG2	3:D:909:ASN:H	1.66	0.60
3:D:1102:THR:HG21	3:D:1371:VAL:HG22	1.83	0.60
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.01	0.60
3:D:1149:LEU:HD23	3:D:1187:PRO:O	2.00	0.60
2:H:660:ALA:CB	2:H:667:ALA:O	2.37	0.60
2:H:705:ILE:HG23	2:H:827:VAL:O	2.02	0.60
3:I:108:VAL:HB	3:I:109:PRO:CD	2.29	0.60
3:I:119:SER:HB2	3:I:123:LEU:N	2.17	0.60
3:I:792:ILE:O	3:I:878:GLY:HA3	2.01	0.60
3:I:922:LEU:N	3:I:922:LEU:HD23	2.16	0.60
3:I:1114:THR:HG22	3:I:1195:GLN:HB3	1.83	0.60
3:I:1441:GLN:HG2	3:I:1442:ASN:N	2.16	0.60
2:M:458:TYR:N	2:M:458:TYR:CD1	2.70	0.60
2:M:674:VAL:HG12	2:M:990:GLY:O	2.01	0.60
3:N:792:ILE:O	3:N:878:GLY:HA3	2.01	0.60
3:N:838:ARG:HB3	3:N:865:THR:CG2	2.30	0.60
3:N:1149:LEU:HG	3:N:1166:LEU:CD2	2.32	0.60
1:B:59:GLU:OE2	1:B:139:ASN:HB3	2.02	0.60
1:B:92:PRO:HA	1:B:146:ARG:NH1	2.17	0.60
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.32	0.60
2:C:269:LEU:HD23	2:C:270:GLY:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.28	0.60
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.82	0.60
2:C:1043:TYR:CE2	3:D:710:ARG:HD2	2.36	0.60
3:D:692:GLU:OE1	3:D:720:LEU:HD13	2.00	0.60
3:D:729:HIS:CE1	3:D:731:LEU:HB2	2.36	0.60
3:D:802:ALA:O	3:D:803:GLY:C	2.44	0.60
3:D:864:VAL:HG12	3:D:865:THR:H	1.65	0.60
3:D:1353:GLN:O	3:D:1357:ARG:HG3	2.00	0.60
1:F:150:TYR:HE2	1:F:152:PRO:HG3	1.67	0.60
1:G:42:ARG:HB3	1:G:42:ARG:CZ	2.31	0.60
2:H:666:LEU:HD12	2:H:667:ALA:H	1.66	0.60
2:H:904:PRO:HD2	2:H:908:GLY:HA2	1.83	0.60
2:H:966:LEU:HD21	2:H:986:PRO:CG	2.32	0.60
3:I:30:GLU:OE1	3:I:30:GLU:HA	2.00	0.60
3:I:143:ASN:CB	3:I:161:LEU:HD11	2.31	0.60
3:I:204:LEU:O	3:I:394:LEU:N	2.34	0.60
3:I:759:ALA:HA	3:I:763:MET:HE2	1.82	0.60
3:I:834:THR:HB	3:I:838:ARG:HB2	1.82	0.60
3:I:885:ILE:HD13	3:I:885:ILE:N	2.16	0.60
3:I:957:PRO:HG2	3:I:1007:VAL:HA	1.84	0.60
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.31	0.60
2:M:144:PRO:O	2:M:276:LYS:NZ	2.34	0.60
2:M:188:LYS:O	2:M:188:LYS:CG	2.47	0.60
2:M:657:ASP:OD1	2:M:661:SER:O	2.20	0.60
2:M:939:ARG:HE	2:M:939:ARG:CA	2.06	0.60
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.36	0.60
3:N:729:HIS:CE1	3:N:731:LEU:HB2	2.36	0.60
3:N:907:GLU:HG2	3:N:908:LYS:N	2.17	0.60
3:N:1264:GLU:HG2	3:N:1266:ARG:HH21	1.66	0.60
3:N:1280:VAL:HA	3:N:1318:TYR:HA	1.83	0.60
2:C:15:LEU:HD12	2:C:15:LEU:N	2.16	0.60
2:C:63:GLY:N	2:C:103:LYS:HD3	2.17	0.60
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.83	0.60
3:D:758:GLU:HA	4:E:20:THR:HG21	1.83	0.60
3:D:977:ALA:CB	3:D:983:LEU:HD21	2.31	0.60
3:D:1107:VAL:HG23	3:D:1219:GLU:O	2.02	0.60
3:D:1329:ALA:C	3:D:1330:ILE:HD12	2.26	0.60
2:H:1043:TYR:HE1	3:I:710:ARG:O	1.85	0.60
3:I:615:ARG:HE	3:I:619:LEU:HD21	1.66	0.60
3:I:704:ARG:HH12	3:I:743:ASP:CG	2.09	0.60
2:M:129:ILE:CD1	2:M:129:ILE:N	2.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:946:ARG:NH1	3:N:796:ARG:HH22	1.99	0.60
2:M:1044:GLY:HA3	4:O:17:TYR:CE1	2.37	0.60
2:M:1086:ARG:CZ	3:N:88:TYR:CE1	2.84	0.60
3:N:50:PHE:CZ	3:N:522:PRO:HG3	2.37	0.60
3:N:124:GLU:O	3:N:127:LEU:HD12	2.01	0.60
3:N:1025:GLN:HE21	3:N:1025:GLN:CA	2.14	0.60
3:N:1329:ALA:C	3:N:1330:ILE:HD12	2.26	0.60
1:A:34:VAL:HG11	1:B:42:ARG:HH21	1.66	0.60
2:C:47:ALA:O	2:C:348:LEU:HD23	2.02	0.60
2:C:221:LEU:HD12	2:C:221:LEU:C	2.26	0.60
2:C:243:ARG:HB2	2:C:244:PRO:HD3	1.84	0.60
3:D:179:VAL:CG1	3:D:183:GLU:HB3	2.32	0.60
3:D:452:ILE:HD13	3:D:452:ILE:H	1.66	0.60
3:D:544:TYR:CE2	3:D:581:LEU:HD12	2.37	0.60
3:D:800:LYS:HZ2	3:D:804:LEU:HD22	1.67	0.60
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.82	0.60
3:D:1105:ILE:HB	3:D:1222:GLY:CA	2.31	0.60
4:E:43:GLU:O	4:E:44:GLU:HB2	2.01	0.60
1:G:74:ASP:N	1:L:162:ILE:HD13	2.17	0.60
2:H:304:LEU:HG	2:H:305:PRO:CD	2.25	0.60
2:H:376:ARG:HB3	2:H:377:PRO:HD3	1.84	0.60
2:H:458:TYR:N	2:H:458:TYR:CD1	2.70	0.60
2:H:654:LEU:HD13	2:H:663:ASN:C	2.26	0.60
2:H:1102:LEU:HB2	3:I:7:LYS:O	2.01	0.60
3:I:564:GLU:C	3:I:566:ILE:N	2.57	0.60
3:I:615:ARG:HG3	3:I:619:LEU:HD21	1.83	0.60
3:I:826:PRO:HD2	3:I:829:VAL:HG22	1.82	0.60
3:I:997:THR:CG2	7:Y:61:ARG:NH1	2.63	0.60
2:M:157:ARG:CZ	2:M:314:THR:HG23	2.31	0.60
2:M:395:LYS:O	2:M:397:GLU:HG3	2.01	0.60
2:M:987:ILE:HD11	3:N:946:GLY:CA	2.32	0.60
2:M:988:VAL:HG11	3:N:949:ILE:O	2.02	0.60
3:N:108:VAL:HB	3:N:109:PRO:CD	2.29	0.60
3:N:1235:GLN:NE2	7:Z:43:TYR:HE1	2.00	0.60
1:B:190:THR:CB	3:D:722:GLU:OE1	2.49	0.60
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.02	0.60
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.37	0.60
3:D:814:ALA:HB1	3:D:818:ARG:HE	1.67	0.60
3:D:838:ARG:HB3	3:D:865:THR:CG2	2.29	0.60
3:D:907:GLU:HG2	3:D:908:LYS:N	2.17	0.60
4:E:19:LEU:O	4:E:23:VAL:HG23	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:6:PHE:CE2	2:H:917:LEU:HD11	2.37	0.60
2:H:52:PHE:O	2:H:54:ILE:N	2.35	0.60
2:H:657:ASP:OD1	2:H:661:SER:O	2.20	0.60
3:I:984:THR:CG2	3:I:987:GLU:H	2.14	0.60
3:I:1040:GLY:O	3:I:1060:SER:HB3	2.02	0.60
2:M:129:ILE:CG1	2:M:134:ARG:CD	2.79	0.60
2:M:236:ILE:CD1	2:M:236:ILE:H	2.15	0.60
4:O:51:LEU:HD12	4:O:53:GLY:N	2.17	0.60
2:C:1034:GLU:HG3	2:C:1038:TRP:CZ2	2.37	0.59
3:D:191:LEU:HD12	3:D:195:VAL:HG12	1.83	0.59
3:D:1031:ASN:OD1	3:D:1033:GLN:HB3	2.02	0.59
3:D:1110:ALA:O	3:D:1111:ASP:C	2.45	0.59
3:D:1422:MET:CE	3:D:1427:SER:HA	2.32	0.59
2:H:260:LEU:HD23	2:H:261:ILE:N	2.17	0.59
2:H:313:LEU:CG	2:H:320:HIS:ND1	2.60	0.59
2:H:1008:ARG:NH1	3:I:624:ASP:OD1	2.34	0.59
3:I:25:GLU:HB2	3:I:92:HIS:CE1	2.37	0.59
3:I:799:LYS:HD3	3:I:826:PRO:CG	2.32	0.59
3:I:988:ARG:O	3:I:992:ILE:HG13	2.01	0.59
3:I:992:ILE:O	3:I:995:LEU:HB3	2.02	0.59
3:I:1047:LYS:NZ	3:I:1053:PHE:HA	2.17	0.59
3:I:1071:PHE:O	3:I:1074:SER:HB3	2.02	0.59
1:K:39:PRO:HG3	1:L:39:PRO:HG2	1.84	0.59
1:K:218:LEU:HD23	1:L:222:LEU:HD21	1.84	0.59
2:M:516:ARG:CD	3:N:1068:LEU:HD22	2.32	0.59
2:M:654:LEU:HD13	2:M:663:ASN:C	2.27	0.59
2:M:1046:ALA:CB	3:N:1476:THR:CB	2.79	0.59
3:N:118:LEU:O	3:N:120:ALA:N	2.34	0.59
3:N:189:GLN:HE22	3:N:191:LEU:H	1.49	0.59
3:N:970:LYS:NZ	7:Z:113:LEU:HB3	2.17	0.59
3:N:977:ALA:CB	3:N:983:LEU:HD21	2.31	0.59
4:O:70:THR:OG1	4:O:72:ARG:HG2	2.02	0.59
7:X:26:LEU:HD13	7:X:58:ILE:CG2	2.32	0.59
2:C:274:ARG:HG2	2:C:274:ARG:NH1	2.13	0.59
2:C:317:VAL:O	2:C:317:VAL:HG12	2.01	0.59
2:C:1014:SER:HB2	2:C:1021:LEU:HD13	1.83	0.59
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.83	0.59
3:D:992:ILE:O	3:D:995:LEU:HB3	2.03	0.59
3:D:1037:GLN:OE1	3:D:1042:ARG:NH1	2.35	0.59
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.02	0.59
3:D:1235:GLN:HB3	7:X:52:LYS:HZ1	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:697:GLY:C	4:J:59:ASN:HD22	2.10	0.59
3:I:991:GLN:HE22	7:Y:112:VAL:HG21	1.65	0.59
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.83	0.59
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.17	0.59
3:N:1401:GLU:CD	3:N:1415:VAL:HG11	2.28	0.59
2:C:332:ARG:NH1	2:C:464:LEU:HD21	2.17	0.59
3:D:972:LEU:O	3:D:976:GLN:HG3	2.02	0.59
3:D:984:THR:CG2	3:D:987:GLU:H	2.14	0.59
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.17	0.59
3:D:1463:LYS:O	3:D:1466:VAL:HB	2.01	0.59
3:D:1489:GLN:O	3:D:1493:LYS:HG3	2.02	0.59
2:H:12:VAL:HG13	2:H:13:ILE:H	1.65	0.59
2:H:80:GLN:HG3	2:H:90:TYR:CE2	2.37	0.59
2:H:292:ARG:CG	2:H:299:LYS:HB3	2.27	0.59
2:H:442:GLU:OE2	2:H:543:ASN:HB3	2.02	0.59
2:H:948:GLU:CD	2:H:955:PRO:HA	2.27	0.59
3:I:131:LYS:CA	3:I:568:ARG:HD2	2.31	0.59
2:M:274:ARG:NH2	2:M:278:GLU:OE2	2.36	0.59
2:M:557:ARG:NH1	2:M:560:MET:CG	2.65	0.59
2:M:948:GLU:CD	2:M:955:PRO:HA	2.28	0.59
3:N:100:ALA:CB	3:N:128:TYR:OH	2.51	0.59
3:N:972:LEU:O	3:N:976:GLN:HG3	2.02	0.59
7:X:81:GLU:O	7:X:154:ILE:CD1	2.48	0.59
1:B:190:THR:HB	3:D:722:GLU:OE1	2.02	0.59
2:C:458:TYR:CD1	2:C:458:TYR:N	2.70	0.59
2:C:585:GLU:O	2:C:588:VAL:HG22	2.02	0.59
3:D:171:LEU:HD23	3:D:172:PRO:CD	2.33	0.59
3:D:171:LEU:HB3	3:D:391:ALA:O	2.01	0.59
1:G:211:LEU:O	1:G:215:VAL:HG13	2.02	0.59
2:H:1052:MET:SD	3:I:623:VAL:CG2	2.91	0.59
3:I:972:LEU:O	3:I:976:GLN:HG3	2.02	0.59
3:I:1288:GLU:HG2	3:I:1307:LYS:NZ	2.17	0.59
2:M:267:TYR:CB	2:M:272:ALA:HB1	2.26	0.59
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.84	0.59
2:M:966:LEU:HD21	2:M:986:PRO:HG3	1.85	0.59
2:M:1098:ASP:N	3:N:11:ALA:O	2.34	0.59
3:N:814:ALA:HB1	3:N:818:ARG:HE	1.67	0.59
3:N:988:ARG:O	3:N:992:ILE:HG13	2.01	0.59
3:N:992:ILE:O	3:N:995:LEU:HB3	2.02	0.59
3:N:1359:GLN:NE2	7:Z:52:LYS:HD3	2.17	0.59
7:X:32:ILE:O	7:X:36:LEU:HG	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:115:THR:HB	7:X:116:PRO:CD	2.32	0.59
2:C:603:VAL:HG13	2:C:613:VAL:CG1	2.32	0.59
3:D:584:ASN:CG	3:D:590:PRO:HG2	2.27	0.59
3:D:584:ASN:ND2	3:D:590:PRO:HG2	2.16	0.59
2:H:178:PRO:C	2:H:180:GLY:H	2.10	0.59
2:H:486:MET:HG3	2:H:490:GLU:HB2	1.84	0.59
2:H:500:ASN:N	2:H:500:ASN:ND2	2.45	0.59
2:H:1004:LYS:CD	3:I:744:GLN:HE22	2.07	0.59
3:I:977:ALA:CB	3:I:983:LEU:HD21	2.31	0.59
1:K:102:LYS:HD3	1:K:139:ASN:HD21	1.64	0.59
2:M:442:GLU:OE2	2:M:543:ASN:HB3	2.02	0.59
2:M:1095:LEU:HD11	2:M:1097:LEU:CB	2.28	0.59
3:N:1040:GLY:O	3:N:1060:SER:HB3	2.02	0.59
1:A:54:THR:HG22	1:A:158:ILE:HD13	1.83	0.59
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.17	0.59
3:D:126:VAL:O	3:D:132:TYR:HD2	1.86	0.59
3:D:1018:ASN:HB3	3:D:1021:TYR:HB3	1.83	0.59
3:D:1255:GLY:O	3:D:1259:VAL:HG23	2.02	0.59
1:F:153:ALA:HA	1:F:156:HIS:HE2	1.67	0.59
2:H:126:SER:HB3	2:H:395:LYS:NZ	2.17	0.59
2:H:474:VAL:HG13	2:H:529:VAL:O	2.02	0.59
2:H:654:LEU:H	2:H:654:LEU:CD2	2.13	0.59
3:I:127:LEU:CD1	3:I:457:GLY:HA2	2.32	0.59
3:I:520:LEU:CD1	3:I:524:LEU:HD22	2.14	0.59
2:M:154:ARG:HH12	2:M:178:PRO:CD	2.15	0.59
2:M:1031:ARG:NH2	3:N:621:LYS:NZ	2.50	0.59
3:N:397:LYS:HG3	3:N:397:LYS:O	2.01	0.59
3:N:806:PHE:HE1	3:N:813:LEU:HB3	1.67	0.59
3:N:983:LEU:N	3:N:983:LEU:HD23	2.18	0.59
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.66	0.59
7:X:16:MET:CE	7:X:69:LEU:HD13	2.33	0.59
2:C:129:ILE:HD12	2:C:129:ILE:N	2.17	0.59
2:C:380:ALA:O	2:C:384:GLU:HB2	2.03	0.59
2:C:557:ARG:NH1	2:C:560:MET:CG	2.64	0.59
2:C:948:GLU:CD	2:C:955:PRO:HA	2.27	0.59
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.36	0.59
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.17	0.59
3:D:205:TYR:HD1	3:D:390:PRO:CG	2.16	0.59
3:D:853:VAL:HG22	3:D:858:VAL:HG23	1.84	0.59
3:D:1101:VAL:CG1	3:D:1424:VAL:HG23	2.32	0.59
3:D:1225:ALA:O	3:D:1229:ILE:HG13	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:54:THR:HG22	1:F:158:ILE:HD13	1.83	0.59
2:H:363:SER:HB2	2:H:366:SER:CB	2.31	0.59
3:I:1122:LEU:HD11	3:I:1186:VAL:CG2	2.29	0.59
3:I:1216:SER:CB	4:J:16:LYS:H	2.15	0.59
3:I:1288:GLU:O	3:I:1307:LYS:HE2	2.03	0.59
2:M:18:LEU:HD12	2:M:18:LEU:N	2.16	0.59
2:M:142:ARG:NE	2:M:325:ILE:CG2	2.66	0.59
2:M:157:ARG:NH1	2:M:314:THR:HG21	2.17	0.59
2:M:204:GLN:NE2	2:M:228:ALA:HB1	2.17	0.59
3:N:119:SER:HB2	3:N:123:LEU:N	2.17	0.59
3:N:137:PRO:CG	3:N:453:ASP:HB2	2.31	0.59
3:N:179:VAL:HG22	3:N:183:GLU:OE2	2.02	0.59
3:N:351:MET:HG3	3:N:370:ALA:HB2	1.83	0.59
3:N:834:THR:HB	3:N:838:ARG:HB2	1.82	0.59
3:N:875:THR:HG22	3:N:879:ARG:HB2	1.83	0.59
3:N:948:THR:C	3:N:949:ILE:HD12	2.27	0.59
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.83	0.59
5:T:18:DC:H2''	5:T:19:DC:C5'	2.27	0.59
1:B:185:ARG:NH1	3:D:692:GLU:HB3	2.18	0.59
2:C:953:VAL:HG11	2:C:962:GLN:HB3	1.85	0.59
2:C:1091:GLU:OE2	3:D:613:ARG:HG3	2.03	0.59
3:D:208:PRO:HG3	3:D:353:VAL:CG1	2.33	0.59
3:D:983:LEU:HD23	3:D:983:LEU:N	2.18	0.59
1:F:42:ARG:HH12	1:G:34:VAL:CG1	2.16	0.59
1:G:133:GLU:HG3	1:G:134:GLU:N	2.16	0.59
2:H:313:LEU:HB3	2:H:320:HIS:HE1	1.68	0.59
2:H:571:LEU:CD1	2:H:701:THR:H	2.16	0.59
3:I:131:LYS:NZ	3:I:133:ILE:HD11	2.18	0.59
3:I:814:ALA:HB1	3:I:818:ARG:NH2	2.17	0.59
2:M:657:ASP:CG	2:M:662:GLU:HA	2.28	0.59
2:M:1059:ASP:OD1	2:M:1062:GLY:N	2.34	0.59
3:N:25:GLU:HB2	3:N:92:HIS:CE1	2.37	0.59
3:N:853:VAL:HG22	3:N:858:VAL:HG23	1.84	0.59
3:N:885:ILE:HD13	3:N:885:ILE:N	2.16	0.59
3:N:1442:ASN:HD21	3:N:1444:THR:HB	1.66	0.59
4:O:59:ASN:HD21	4:O:61:VAL:CG2	2.16	0.59
7:Z:102:VAL:HG13	7:Z:119:ILE:HG12	1.84	0.59
1:A:19:GLU:CD	1:A:19:GLU:H	2.10	0.59
2:C:577:PRO:HG3	2:C:993:PHE:CE1	2.37	0.59
2:C:657:ASP:OD1	2:C:661:SER:O	2.20	0.59
3:D:159:ARG:CZ	2:H:222:MET:HE2	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:160:GLU:OE1	3:D:161:LEU:HG	2.03	0.59
3:D:170:PRO:CD	2:H:318:PRO:HB3	2.28	0.59
3:D:171:LEU:CD2	3:D:175:VAL:HB	2.32	0.59
3:D:206:ARG:CD	3:D:394:LEU:HD21	2.31	0.59
3:D:480:GLU:O	3:D:484:PRO:HG2	2.01	0.59
3:D:800:LYS:HD2	3:D:804:LEU:HD13	1.85	0.59
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.02	0.59
1:G:102:LYS:HG3	1:G:139:ASN:HB2	1.85	0.59
2:H:557:ARG:NH1	2:H:560:MET:CG	2.64	0.59
2:H:851:LYS:HG2	2:H:853:LEU:HD12	1.85	0.59
3:I:525:ARG:HD3	3:I:525:ARG:H	1.67	0.59
3:I:907:GLU:HG2	3:I:908:LYS:N	2.17	0.59
3:I:963:TYR:CD2	3:I:1002:LYS:HD3	2.38	0.59
3:I:1233:GLY:HA2	3:I:1236:LEU:HG	1.85	0.59
1:L:211:LEU:O	1:L:215:VAL:HG13	2.02	0.59
2:M:200:LEU:CD2	2:M:300:ASP:CG	2.72	0.59
2:M:272:ALA:HA	2:M:464:LEU:CD2	2.33	0.59
2:M:662:GLU:O	2:M:663:ASN:HB2	2.03	0.59
3:N:1152:GLU:CG	3:N:1161:GLU:HA	2.31	0.59
7:Z:5:VAL:HB	7:Z:72:ALA:HA	1.84	0.59
2:C:64:LEU:HD22	2:C:359:MET:CG	2.33	0.59
2:C:319:GLY:O	2:C:321:GLU:OE2	2.21	0.59
2:C:442:GLU:OE2	2:C:543:ASN:HB3	2.02	0.59
2:C:496:ILE:HA	2:C:531:PHE:O	2.02	0.59
2:C:657:ASP:CG	2:C:662:GLU:HA	2.28	0.59
2:C:666:LEU:HD12	2:C:667:ALA:H	1.66	0.59
3:D:173:PRO:HB3	2:H:279:GLU:OE1	2.03	0.59
3:D:347:VAL:HG22	3:D:368:VAL:HG11	1.83	0.59
3:D:365:ASP:O	3:D:379:ALA:HB3	2.03	0.59
3:D:403:PHE:CD2	3:D:444:VAL:HG23	2.36	0.59
3:D:1401:GLU:CD	3:D:1415:VAL:HG11	2.28	0.59
2:H:292:ARG:HD2	2:H:299:LYS:HE2	1.85	0.59
2:H:683:ASN:HA	2:H:687:ALA:HB3	1.83	0.59
2:H:697:ARG:HB2	2:H:699:PHE:CD1	2.37	0.59
2:H:879:ARG:NH2	7:Y:42:ASP:CG	2.61	0.59
3:I:996:TRP:CE2	3:I:1056:PRO:HG2	2.37	0.59
4:J:54:LEU:HA	4:J:58:PRO:CG	2.33	0.59
2:M:111:ASP:OD2	2:M:369:PRO:CG	2.50	0.59
2:M:141:HIS:O	2:M:331:ARG:HA	2.02	0.59
2:M:254:VAL:O	2:M:257:VAL:HG23	2.02	0.59
2:M:415:PRO:HB2	2:M:418:LEU:CD1	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:707:ARG:HG3	2:M:826:TYR:CD1	2.38	0.59
3:N:23:TYR:O	3:N:49:ILE:HG23	2.03	0.59
3:N:1258:ARG:NH2	3:N:1262:LEU:HD11	2.17	0.59
6:U:15:G:C2'	6:U:16:G:H5'	2.32	0.59
7:Y:139:SER:HB3	7:Y:148:GLU:CG	2.33	0.59
2:C:80:GLN:OE1	2:C:90:TYR:CE2	2.56	0.58
2:C:500:ASN:N	2:C:500:ASN:ND2	2.51	0.58
2:C:966:LEU:HD21	2:C:986:PRO:CG	2.32	0.58
2:C:1012:PRO:HD2	2:C:1026:GLN:CB	2.33	0.58
3:D:102:ILE:CD1	3:D:106:LYS:HB2	2.34	0.58
3:D:139:GLY:CA	3:D:162:ARG:NH2	2.53	0.58
1:F:75:VAL:O	1:F:79:ILE:HG12	2.03	0.58
2:H:305:PRO:HG3	2:H:308:ARG:HH21	1.68	0.58
2:H:351:LEU:HD12	2:H:374:ASN:HD22	1.68	0.58
2:H:360:LEU:H	2:H:360:LEU:HD23	1.68	0.58
2:H:553:ASP:OD1	2:H:843:HIS:ND1	2.33	0.58
2:H:662:GLU:O	2:H:663:ASN:HB2	2.03	0.58
2:H:906:PHE:CD1	3:I:1067:VAL:HG13	2.38	0.58
2:H:1086:ARG:CZ	3:I:88:TYR:CZ	2.85	0.58
3:I:153:LEU:CD1	3:I:158:TYR:HB2	2.32	0.58
3:I:1395:LEU:HD23	3:I:1395:LEU:C	2.27	0.58
1:L:124:ASN:N	1:L:125:PRO:HD3	2.18	0.58
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.84	0.58
3:N:205:TYR:CD1	3:N:390:PRO:HB3	2.38	0.58
3:N:368:VAL:HB	3:N:377:VAL:CG2	2.33	0.58
3:N:1037:GLN:OE1	3:N:1042:ARG:NH1	2.35	0.58
3:N:1047:LYS:NZ	3:N:1053:PHE:HA	2.17	0.58
3:N:1189:ARG:HH11	3:N:1189:ARG:HG3	1.68	0.58
1:A:102:LYS:HD3	1:A:139:ASN:HD21	1.64	0.58
2:C:175:GLU:O	2:C:183:SER:N	2.36	0.58
2:C:338:GLU:HA	2:C:341:THR:HG22	1.85	0.58
3:D:881:LEU:HD11	3:D:885:ILE:HD11	1.85	0.58
3:D:889:ALA:HB1	3:D:930:LEU:HA	1.86	0.58
3:D:1264:GLU:O	3:D:1266:ARG:HG3	2.03	0.58
2:H:6:PHE:HB2	2:H:909:ALA:HA	1.85	0.58
2:H:99:GLN:HA	2:H:109:LYS:O	2.03	0.58
2:H:498:GLN:O	2:H:501:THR:HG23	2.02	0.58
2:H:516:ARG:NE	3:I:1068:LEU:HD22	2.18	0.58
2:H:1097:LEU:HD21	3:I:1447:LEU:HB3	1.85	0.58
1:L:188:GLN:HG2	3:N:685:ASP:OD1	2.02	0.58
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:173:ASP:O	2:M:174:LEU:HD23	2.02	0.58
2:M:430:VAL:HG13	2:M:430:VAL:O	2.01	0.58
2:M:564:MET:SD	2:M:846:LYS:CD	2.89	0.58
2:M:1111:ILE:O	2:M:1112:PHE:C	2.46	0.58
3:N:148:GLU:HG2	3:N:151:GLN:CB	2.33	0.58
3:N:211:VAL:HG12	3:N:211:VAL:O	2.02	0.58
3:N:881:LEU:HD11	3:N:885:ILE:HD11	1.85	0.58
3:N:1292:VAL:CG2	3:N:1311:LEU:HD13	2.33	0.58
7:Y:84:GLY:HA2	7:Y:130:LEU:CD1	2.32	0.58
2:C:269:LEU:HD23	2:C:269:LEU:C	2.29	0.58
3:D:139:GLY:H	3:D:147:VAL:HG21	1.66	0.58
3:D:355:VAL:HG21	3:D:367:ILE:HG23	1.85	0.58
3:D:1293:PHE:HZ	3:D:1302:GLU:OE1	1.86	0.58
3:D:1435:LEU:HB2	3:D:1457:ASP:OD2	2.03	0.58
4:E:73:LEU:HD12	4:E:73:LEU:N	2.18	0.58
2:H:151:ASP:CG	2:H:152:PRO:CD	2.76	0.58
2:H:174:LEU:HD12	2:H:306:THR:HG22	1.84	0.58
2:H:185:LYS:HG2	2:H:189:ARG:O	2.02	0.58
3:I:411:THR:HG23	3:I:436:GLU:HA	1.85	0.58
3:I:1264:GLU:O	3:I:1266:ARG:HG3	2.04	0.58
3:I:1463:LYS:O	3:I:1466:VAL:HB	2.03	0.58
1:K:25:LEU:HD22	1:L:225:PHE:HE2	1.60	0.58
2:M:184:MET:HB3	2:M:191:PHE:CE1	2.39	0.58
3:N:140:ALA:HB3	3:N:432:TYR:CE1	2.38	0.58
3:N:515:GLU:HG3	3:N:516:ALA:N	2.19	0.58
3:N:563:PRO:O	3:N:567:ILE:HG12	2.03	0.58
3:N:789:LEU:HD13	3:N:934:LEU:HD22	1.86	0.58
3:N:812:ALA:O	3:N:816:HIS:HB2	2.03	0.58
3:N:984:THR:CG2	3:N:987:GLU:H	2.14	0.58
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.03	0.58
1:A:151:VAL:HB	1:A:169:ALA:HB3	1.86	0.58
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.37	0.58
2:C:939:ARG:HD3	2:C:982:PRO:HD3	1.86	0.58
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.83	0.58
3:D:506:GLY:O	3:D:507:ASN:C	2.46	0.58
3:D:1156:LEU:CD1	3:D:1176:LYS:HE3	2.33	0.58
3:D:1253:THR:O	3:D:1258:ARG:HD3	2.04	0.58
3:D:1287:GLU:OE1	3:D:1287:GLU:HA	2.04	0.58
3:D:1481:VAL:HG13	4:E:18:ARG:HD3	1.86	0.58
1:F:175:ARG:HH22	2:H:697:ARG:NH2	2.01	0.58
3:I:107:ASP:O	3:I:108:VAL:C	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:654:LYS:HB3	3:I:655:PRO:CD	2.29	0.58
3:I:1189:ARG:HH11	3:I:1189:ARG:HG3	1.68	0.58
1:K:54:THR:HG22	1:K:158:ILE:HD13	1.83	0.58
1:K:151:VAL:HB	1:K:169:ALA:HB3	1.86	0.58
2:M:627:ARG:O	2:M:638:ASP:HB3	2.03	0.58
7:Y:11:GLY:O	7:Y:15:LEU:HG	2.04	0.58
1:B:74:ASP:CG	3:D:872:ARG:NH2	2.61	0.58
1:B:102:LYS:HG3	1:B:139:ASN:HB2	1.86	0.58
2:C:50:GLU:HG2	2:C:51:THR:HG23	1.86	0.58
2:C:872:ASN:ND2	2:C:874:LEU:HB2	2.19	0.58
3:D:115:LEU:HD12	3:D:502:PHE:HE1	1.68	0.58
3:D:209:ARG:HB3	3:D:389:GLU:CB	2.33	0.58
3:D:484:PRO:HB3	3:D:488:ARG:NE	2.17	0.58
3:D:728:LEU:HD12	3:D:729:HIS:N	2.19	0.58
3:D:1425:THR:O	3:D:1429:LEU:HD13	2.02	0.58
2:H:12:VAL:HG22	2:H:13:ILE:CG2	2.33	0.58
2:H:304:LEU:HD23	2:H:304:LEU:N	2.18	0.58
2:H:332:ARG:HG3	2:H:464:LEU:O	2.03	0.58
2:H:572:ILE:CG2	2:H:703:ILE:HD11	2.32	0.58
2:H:879:ARG:CZ	7:Y:42:ASP:HB2	2.33	0.58
3:I:506:GLY:O	3:I:507:ASN:C	2.46	0.58
3:I:853:VAL:HG22	3:I:858:VAL:HG23	1.85	0.58
3:I:889:ALA:HB1	3:I:930:LEU:HA	1.86	0.58
3:I:1037:GLN:OE1	3:I:1042:ARG:NH1	2.35	0.58
3:I:1225:ALA:O	3:I:1229:ILE:HG13	2.03	0.58
3:I:1481:VAL:CG1	4:J:18:ARG:HD3	2.33	0.58
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.67	0.58
2:M:18:LEU:H	2:M:18:LEU:CD1	2.15	0.58
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.85	0.58
2:M:1048:THR:HG21	3:N:763:MET:HE1	1.85	0.58
3:N:728:LEU:HD12	3:N:729:HIS:N	2.18	0.58
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	1.86	0.58
7:Y:6:LYS:O	7:Y:106:SER:HB2	2.03	0.58
1:A:221:HIS:HA	1:A:224:TYR:HD2	1.69	0.58
2:C:5:ARG:HB3	2:C:902:ILE:HB	1.85	0.58
2:C:127:PHE:CD1	2:C:136:ILE:HD13	2.39	0.58
2:C:242:LEU:HD11	2:C:254:VAL:HB	1.86	0.58
2:C:442:GLU:HG2	2:C:454:SER:OG	2.03	0.58
2:C:469:THR:OG1	2:C:470:PRO:HD2	2.04	0.58
2:C:879:ARG:HH21	7:X:42:ASP:CG	1.80	0.58
2:C:1070:ILE:HG21	3:D:655:PRO:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:107:ASP:O	3:D:108:VAL:C	2.46	0.58
3:D:208:PRO:HG3	3:D:353:VAL:HG13	1.84	0.58
3:D:515:GLU:HG3	3:D:516:ALA:N	2.18	0.58
3:D:899:LEU:HD12	3:D:900:ILE:CG2	2.34	0.58
3:D:1444:THR:O	3:D:1448:THR:OG1	2.20	0.58
4:E:52:GLU:N	4:E:52:GLU:CD	2.62	0.58
1:G:36:LEU:O	1:G:39:PRO:HD2	2.04	0.58
1:G:185:ARG:NH1	3:I:692:GLU:CG	2.66	0.58
3:I:983:LEU:N	3:I:983:LEU:HD23	2.18	0.58
3:I:1109:GLU:CG	3:I:1201:CYS:HB2	2.33	0.58
3:I:1401:GLU:CD	3:I:1415:VAL:HG11	2.28	0.58
1:K:36:LEU:C	1:K:39:PRO:HD2	2.28	0.58
1:K:79:ILE:HG13	1:K:80:LEU:H	1.68	0.58
1:L:39:PRO:O	1:L:43:ILE:HG12	2.02	0.58
1:L:115:LEU:HD12	1:L:116:PRO:O	2.03	0.58
2:M:437:ARG:NH2	2:M:488:ALA:CA	2.64	0.58
2:M:508:ILE:HG22	2:M:509:ALA:N	2.18	0.58
3:N:178:LEU:HD11	3:N:191:LEU:CA	2.33	0.58
3:N:189:GLN:HE21	3:N:190:GLU:H	1.51	0.58
3:N:204:LEU:HD12	3:N:205:TYR:H	1.69	0.58
3:N:805:GLU:O	3:N:809:PRO:HD2	2.03	0.58
7:Y:31:LYS:O	7:Y:35:GLU:HG2	2.04	0.58
2:C:26:TYR:HB2	2:C:121:MET:SD	2.44	0.58
2:C:191:PHE:CZ	2:C:196:LEU:HB2	2.36	0.58
2:C:662:GLU:O	2:C:663:ASN:HB2	2.02	0.58
2:C:966:LEU:HD21	2:C:986:PRO:HG3	1.85	0.58
3:D:814:ALA:HB1	3:D:818:ARG:NH2	2.16	0.58
3:D:884:ARG:HD3	3:D:888:GLU:OE2	2.04	0.58
3:D:885:ILE:HD13	3:D:885:ILE:N	2.16	0.58
3:D:970:LYS:HZ2	7:X:113:LEU:HD23	1.67	0.58
3:D:1156:LEU:HD13	3:D:1176:LYS:HE3	1.86	0.58
1:F:221:HIS:HA	1:F:224:TYR:HD2	1.69	0.58
1:G:59:GLU:HG3	1:G:60:ASP:N	2.18	0.58
2:H:224:GLU:HB2	2:H:228:ALA:HB2	1.86	0.58
2:H:627:ARG:O	2:H:638:ASP:HB3	2.04	0.58
2:H:872:ASN:ND2	2:H:874:LEU:HB2	2.18	0.58
3:I:18:ILE:HG23	3:I:518:PRO:HG3	1.85	0.58
3:I:515:GLU:HG3	3:I:516:ALA:N	2.18	0.58
3:I:814:ALA:HB1	3:I:818:ARG:HE	1.67	0.58
3:I:885:ILE:HG23	3:I:937:TYR:CE1	2.39	0.58
3:I:1087:ARG:HB2	3:I:1237:THR:HG23	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:445:GLU:HG3	2:M:560:MET:HE3	1.86	0.58
2:M:1097:LEU:CD1	3:N:1451:ALA:HB2	2.23	0.58
3:N:81:THR:HG23	3:N:82:LYS:H	1.62	0.58
3:N:165:LYS:NZ	3:N:199:LEU:HD22	2.18	0.58
3:N:178:LEU:H	3:N:178:LEU:CD1	2.10	0.58
3:N:184:GLU:OE1	3:N:184:GLU:HA	2.02	0.58
3:N:400:VAL:CG2	3:N:443:VAL:HG21	2.34	0.58
3:N:885:ILE:HG23	3:N:937:TYR:CE1	2.39	0.58
3:N:889:ALA:HB1	3:N:930:LEU:HA	1.85	0.58
3:N:963:TYR:CD2	3:N:1002:LYS:HD3	2.38	0.58
3:N:1264:GLU:O	3:N:1266:ARG:HG3	2.04	0.58
1:B:70:GLY:O	1:B:132:LEU:HA	2.03	0.58
2:C:140:ILE:HD11	2:C:412:ALA:CA	2.33	0.58
2:C:170:PRO:HD3	2:C:263:ASP:CG	2.28	0.58
2:C:582:GLY:C	2:C:583:LEU:HD12	2.29	0.58
2:C:984:GLU:CG	3:D:944:THR:O	2.51	0.58
2:C:1090:LYS:HE3	3:D:90:MET:SD	2.43	0.58
3:D:470:LEU:HD23	3:D:470:LEU:N	2.18	0.58
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.84	0.58
3:D:1189:ARG:HH11	3:D:1189:ARG:HG3	1.68	0.58
2:H:224:GLU:HB3	2:H:228:ALA:HB2	1.85	0.58
2:H:1090:LYS:NZ	3:I:90:MET:SD	2.74	0.58
3:I:136:ASP:HB3	3:I:137:PRO:CD	2.23	0.58
3:I:205:TYR:HD1	3:I:390:PRO:HB3	1.68	0.58
3:I:470:LEU:HD23	3:I:470:LEU:N	2.18	0.58
3:I:702:LEU:O	3:I:713:ILE:HG23	2.04	0.58
3:I:899:LEU:HD12	3:I:900:ILE:CG2	2.34	0.58
3:I:1148:VAL:O	3:I:1188:VAL:HG23	2.03	0.58
2:M:333:ILE:HG12	2:M:410:ILE:HD11	1.85	0.58
2:M:442:GLU:HG2	2:M:454:SER:OG	2.03	0.58
2:M:836:GLY:HA3	2:M:1001:VAL:CG2	2.28	0.58
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.84	0.58
3:N:142:LEU:HD13	3:N:144:GLY:C	2.28	0.58
7:Y:128:ALA:HB2	7:Y:140:LEU:HD11	1.86	0.58
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.67	0.58
1:A:153:ALA:HA	1:A:156:HIS:HE2	1.67	0.58
1:A:218:LEU:O	1:A:222:LEU:HD13	2.04	0.58
2:C:98:LEU:HD12	2:C:111:ASP:O	2.04	0.58
2:C:261:ILE:CD1	2:C:262:ALA:H	2.17	0.58
2:C:263:ASP:O	2:C:264:PRO:O	2.22	0.58
2:C:937:ASP:O	2:C:941:VAL:HG23	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:885:ILE:HG23	3:D:937:TYR:CE1	2.39	0.58
3:D:1071:PHE:O	3:D:1074:SER:HB3	2.02	0.58
3:D:1111:ASP:CG	3:D:1203:LYS:HD2	2.29	0.58
4:E:15:SER:O	4:E:18:ARG:HB3	2.02	0.58
2:H:139:GLN:HE22	2:H:414:GLY:HA3	1.69	0.58
3:I:638:LYS:HA	3:I:932:ASP:OD1	2.04	0.58
2:M:25:SER:O	2:M:29:ALA:HB2	2.04	0.58
2:M:63:GLY:CA	2:M:103:LYS:HG2	2.34	0.58
2:M:273:GLY:HA2	2:M:276:LYS:HD2	1.84	0.58
2:M:691:SER:HB2	2:M:858:MET:SD	2.44	0.58
2:M:851:LYS:HG2	2:M:853:LEU:HD12	1.85	0.58
2:M:937:ASP:O	2:M:941:VAL:HG23	2.04	0.58
3:N:474:GLU:O	3:N:478:LEU:HG	2.03	0.58
3:N:987:GLU:OE1	7:Z:120:SER:HB2	2.03	0.58
3:N:1047:LYS:HZ1	3:N:1053:PHE:HA	1.68	0.58
3:N:1071:PHE:O	3:N:1074:SER:HB3	2.02	0.58
3:N:1468:LEU:HD22	3:N:1470:ARG:CB	2.29	0.58
7:Y:30:THR:HG22	7:Y:31:LYS:N	2.18	0.58
1:A:213:GLN:O	1:A:217:ILE:HG13	2.04	0.58
2:C:101:ILE:HG23	2:C:108:ILE:HD11	1.84	0.58
2:C:211:LEU:CD2	2:C:221:LEU:HD23	2.34	0.58
2:C:328:LEU:HA	2:C:331:ARG:HB2	1.84	0.58
2:C:374:ASN:N	2:C:374:ASN:ND2	2.51	0.58
2:C:850:ALA:HA	3:D:632:VAL:HG13	1.86	0.58
3:D:789:LEU:HD13	3:D:934:LEU:HD22	1.86	0.58
1:F:36:LEU:C	1:F:39:PRO:HD2	2.28	0.58
1:F:218:LEU:O	1:F:222:LEU:HD13	2.04	0.58
2:H:300:ASP:CG	2:H:300:ASP:O	2.44	0.58
2:H:351:LEU:CD1	2:H:374:ASN:HD22	2.16	0.58
2:H:620:LEU:HD12	2:H:620:LEU:O	2.03	0.58
3:I:412:GLY:HA2	3:I:434:ARG:HD3	1.86	0.58
3:I:795:VAL:HG22	3:I:879:ARG:HH12	1.68	0.58
3:I:1137:ARG:HG2	3:I:1141:GLU:OE1	2.04	0.58
1:L:71:VAL:HG22	1:L:132:LEU:CD1	2.34	0.58
2:M:9:ILE:HD13	2:M:907:ASP:HB2	1.86	0.58
2:M:39:ARG:CG	2:M:45:GLN:NE2	2.67	0.58
2:M:343:GLN:HE21	2:M:346:VAL:HG21	1.69	0.58
2:M:1030:GLN:CD	3:N:628:ARG:HD3	2.27	0.58
3:N:87:ARG:HB2	3:N:524:LEU:CD1	2.33	0.58
3:N:884:ARG:HD3	3:N:888:GLU:OE2	2.04	0.58
3:N:1148:VAL:O	3:N:1188:VAL:HG23	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:42:ARG:HG2	1:B:42:ARG:NH1	2.17	0.57
1:B:211:LEU:O	1:B:215:VAL:HG13	2.02	0.57
2:C:611:ILE:CG1	2:C:625:LEU:HD21	2.34	0.57
2:C:834:GLN:HE22	3:D:724:GLN:CG	2.14	0.57
2:C:948:GLU:HG2	2:C:955:PRO:HG3	1.85	0.57
2:C:1098:ASP:N	3:D:11:ALA:O	2.36	0.57
3:D:134:VAL:CG2	3:D:455:ARG:O	2.51	0.57
3:D:474:GLU:O	3:D:478:LEU:HG	2.04	0.57
3:D:618:LEU:HD22	3:D:1463:LYS:HE2	1.85	0.57
3:D:706:PRO:CD	6:Q:16:G:H21	2.12	0.57
3:D:963:TYR:CD2	3:D:1002:LYS:HD3	2.38	0.57
3:D:1171:VAL:O	3:D:1175:ILE:HG13	2.04	0.57
1:F:50:GLY:O	1:F:146:ARG:HA	2.04	0.57
2:H:657:ASP:CG	2:H:662:GLU:HA	2.28	0.57
2:H:1034:GLU:HG3	2:H:1038:TRP:CZ2	2.38	0.57
3:I:615:ARG:O	3:I:619:LEU:CG	2.47	0.57
1:K:50:GLY:O	1:K:146:ARG:HA	2.04	0.57
2:M:342:ASP:HA	2:M:345:ARG:HD3	1.86	0.57
3:N:50:PHE:CE2	3:N:522:PRO:CD	2.73	0.57
3:N:55:ASP:O	3:N:56:TYR:HB2	2.04	0.57
3:N:402:PRO:CA	3:N:443:VAL:HG23	2.33	0.57
3:N:1101:VAL:HG12	3:N:1428:ALA:HB2	1.86	0.57
2:C:194:VAL:HG11	2:C:221:LEU:O	2.04	0.57
2:C:571:LEU:HD21	2:C:700:TYR:HA	1.85	0.57
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.86	0.57
3:D:563:PRO:CA	2:H:223:ASP:HB2	2.29	0.57
3:D:1021:TYR:CE2	3:D:1025:GLN:HG2	2.39	0.57
2:H:182:VAL:C	2:H:193:LEU:CD1	2.75	0.57
2:H:242:LEU:HD13	2:H:254:VAL:HG11	1.86	0.57
2:H:442:GLU:HG2	2:H:454:SER:OG	2.03	0.57
2:H:680:ASP:O	3:I:939:PHE:HB3	2.04	0.57
2:H:939:ARG:HD3	2:H:982:PRO:HD3	1.86	0.57
2:H:953:VAL:HG11	2:H:962:GLN:HB3	1.85	0.57
3:I:102:ILE:CD1	3:I:106:LYS:HB2	2.33	0.57
3:I:728:LEU:HD12	3:I:729:HIS:N	2.19	0.57
3:I:812:ALA:O	3:I:816:HIS:HB2	2.04	0.57
3:I:1041:LEU:HD12	3:I:1058:ARG:HA	1.85	0.57
3:I:1468:LEU:CD1	3:I:1470:ARG:HE	2.16	0.57
2:M:136:ILE:HD12	2:M:136:ILE:N	2.20	0.57
2:M:285:LEU:HD23	2:M:285:LEU:O	2.04	0.57
2:M:953:VAL:HG11	2:M:962:GLN:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1032:PHE:O	2:M:1033:GLY:O	2.22	0.57
3:N:516:ALA:O	3:N:518:PRO:HD3	2.04	0.57
3:N:631:ILE:HG12	3:N:740:PHE:CE2	2.39	0.57
3:N:1171:VAL:O	3:N:1175:ILE:HG13	2.04	0.57
1:A:36:LEU:C	1:A:39:PRO:HD2	2.28	0.57
1:B:39:PRO:O	1:B:43:ILE:HG12	2.05	0.57
2:C:135:VAL:C	2:C:136:ILE:HD12	2.29	0.57
2:C:418:LEU:N	2:C:418:LEU:HD12	2.18	0.57
3:D:631:ILE:HG12	3:D:740:PHE:CE2	2.39	0.57
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.34	0.57
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.39	0.57
2:H:328:LEU:H	2:H:433:THR:HG21	1.70	0.57
2:H:654:LEU:CD1	2:H:663:ASN:C	2.77	0.57
2:H:873:PRO:HB3	3:I:949:ILE:CD1	2.33	0.57
3:I:1344:VAL:O	3:I:1348:LEU:HD13	2.04	0.57
1:L:38:ASN:O	1:L:42:ARG:HG3	2.04	0.57
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.86	0.57
2:M:160:ALA:HB3	2:M:174:LEU:HB2	1.85	0.57
3:N:55:ASP:N	3:N:55:ASP:OD1	2.37	0.57
3:N:506:GLY:O	3:N:507:ASN:C	2.46	0.57
3:N:705:ALA:HB2	6:U:16:G:O2'	2.03	0.57
3:N:1481:VAL:CG1	4:O:18:ARG:HD3	2.35	0.57
7:Z:115:THR:HB	7:Z:116:PRO:CD	2.32	0.57
2:C:660:ALA:CB	2:C:667:ALA:O	2.37	0.57
2:C:836:GLY:HA3	2:C:1001:VAL:HG21	1.86	0.57
3:D:111:LYS:CG	3:D:1452:ILE:HG12	2.35	0.57
3:D:832:ARG:HA	3:D:832:ARG:CZ	2.34	0.57
1:F:213:GLN:O	1:F:217:ILE:HG13	2.04	0.57
2:H:948:GLU:HG2	2:H:955:PRO:HG3	1.85	0.57
2:H:966:LEU:HD21	2:H:986:PRO:HG3	1.85	0.57
3:I:465:LEU:HD22	3:I:510:GLU:HA	1.86	0.57
3:I:806:PHE:CE1	3:I:813:LEU:HB3	2.39	0.57
1:K:221:HIS:HA	1:K:224:TYR:HD2	1.69	0.57
2:M:24:GLU:OE2	2:M:27:ARG:HD2	2.05	0.57
2:M:575:GLN:NE2	2:M:670:GLN:OE1	2.38	0.57
2:M:1056:LYS:HB3	3:N:623:VAL:HG13	1.86	0.57
3:N:153:LEU:HD13	3:N:158:TYR:HB2	1.85	0.57
3:N:433:GLY:CA	3:N:447:VAL:O	2.53	0.57
3:N:832:ARG:CZ	3:N:832:ARG:HA	2.35	0.57
3:N:982:PHE:HD2	3:N:982:PHE:H	1.52	0.57
4:O:36:LYS:NZ	4:O:45:ARG:HH22	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:215:VAL:HG13	1:B:222:LEU:HD22	1.84	0.57
1:B:197:LEU:O	1:B:197:LEU:HD23	2.05	0.57
2:C:212:GLY:O	2:C:214:TYR:N	2.38	0.57
2:C:445:GLU:HG3	2:C:560:MET:HE3	1.86	0.57
2:C:627:ARG:O	2:C:638:ASP:HB3	2.03	0.57
2:C:654:LEU:CD1	2:C:663:ASN:C	2.77	0.57
3:D:355:VAL:CG1	3:D:359:ALA:HB3	2.34	0.57
3:D:583:ASP:OD2	3:D:604:THR:HG21	2.04	0.57
2:H:582:GLY:C	2:H:583:LEU:HD12	2.28	0.57
2:H:687:ALA:HB1	2:H:850:ALA:HB2	1.85	0.57
3:I:87:ARG:NH1	3:I:87:ARG:HA	2.19	0.57
3:I:400:VAL:HG12	3:I:402:PRO:HD3	1.87	0.57
3:I:832:ARG:CZ	3:I:832:ARG:HA	2.35	0.57
1:K:32:PHE:HZ	1:L:47:SER:HB2	1.70	0.57
2:M:368:THR:HG22	2:M:369:PRO:HD3	1.86	0.57
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.05	0.57
3:N:156:GLU:O	3:N:160:GLU:HB2	2.05	0.57
3:N:387:LEU:H	3:N:387:LEU:CD1	2.08	0.57
3:N:433:GLY:HA3	3:N:447:VAL:O	2.04	0.57
3:N:1422:MET:CE	3:N:1427:SER:HA	2.34	0.57
4:O:49:GLN:CD	4:O:49:GLN:N	2.61	0.57
6:U:15:G:H2'	6:U:16:G:H5'	1.85	0.57
1:A:50:GLY:O	1:A:146:ARG:HA	2.04	0.57
1:A:68:ILE:O	1:A:71:VAL:HB	2.03	0.57
2:C:9:ILE:HG13	2:C:9:ILE:O	2.04	0.57
2:C:80:GLN:HA	2:C:90:TYR:CD2	2.40	0.57
3:D:158:TYR:CE1	3:D:162:ARG:HB3	2.40	0.57
3:D:165:LYS:HZ2	3:D:199:LEU:HD22	1.69	0.57
3:D:355:VAL:HG13	3:D:359:ALA:HB3	1.85	0.57
3:D:516:ALA:O	3:D:518:PRO:HD3	2.04	0.57
3:D:608:SER:HB3	3:D:1443:THR:OG1	2.05	0.57
3:D:638:LYS:HD3	3:D:932:ASP:CG	2.30	0.57
3:D:702:LEU:O	3:D:713:ILE:HG23	2.04	0.57
3:D:1052:THR:HG22	7:X:57:ARG:NH1	2.11	0.57
3:D:1109:GLU:HG3	3:D:1217:ILE:HD12	1.87	0.57
3:D:1205:TYR:HD2	3:D:1215:VAL:HG21	1.67	0.57
3:D:1256:LEU:O	3:D:1260:ILE:HG13	2.04	0.57
3:D:1277:ILE:O	3:D:1294:VAL:HG11	2.04	0.57
3:D:1291:SER:HB2	3:D:1293:PHE:CE1	2.39	0.57
1:G:112:ARG:CG	1:G:125:PRO:CB	2.80	0.57
2:H:52:PHE:CG	2:H:68:PHE:HB2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:207:LEU:HD22	2:H:221:LEU:HD13	1.87	0.57
2:H:516:ARG:HG3	3:I:1068:LEU:HD11	1.87	0.57
2:H:595:LEU:HD23	2:H:655:LEU:HB2	1.87	0.57
3:I:1147:ARG:O	3:I:1165:TYR:HA	2.05	0.57
4:J:70:THR:OG1	4:J:72:ARG:HG2	2.05	0.57
1:K:213:GLN:O	1:K:217:ILE:HG13	2.04	0.57
1:L:85:LEU:HD12	1:L:86:VAL:H	1.70	0.57
2:M:39:ARG:HG2	2:M:45:GLN:NE2	2.16	0.57
2:M:83:CYS:SG	2:M:90:TYR:CD2	2.98	0.57
2:M:295:ASP:C	2:M:297:GLU:H	2.13	0.57
2:M:367:LEU:CB	2:M:371:LYS:HG2	2.33	0.57
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.86	0.57
2:M:1008:ARG:NH1	2:M:1010:THR:HA	2.19	0.57
2:M:1043:TYR:CE1	3:N:710:ARG:O	2.57	0.57
3:N:638:LYS:HD3	3:N:932:ASP:HB3	1.85	0.57
3:N:702:LEU:O	3:N:713:ILE:HG23	2.04	0.57
3:N:1292:VAL:CG2	3:N:1305:LEU:HG	2.31	0.57
3:N:1312:LEU:HD11	3:N:1327:ARG:HH21	1.67	0.57
1:B:62:LEU:H	1:B:62:LEU:CD1	1.97	0.57
2:C:36:PRO:HA	2:C:39:ARG:CG	2.33	0.57
2:C:172:ILE:HD12	2:C:172:ILE:N	2.20	0.57
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.85	0.57
2:C:1078:GLU:OE1	2:C:1078:GLU:HA	2.04	0.57
2:H:29:ALA:O	2:H:43:GLY:HA3	2.05	0.57
2:H:200:LEU:HD13	2:H:300:ASP:OD1	2.04	0.57
2:H:674:VAL:HG12	2:H:990:GLY:O	2.04	0.57
3:I:884:ARG:HD3	3:I:888:GLU:OE2	2.04	0.57
3:I:980:MET:CB	3:I:982:PHE:CE2	2.88	0.57
3:I:1026:SER:C	3:I:1028:ALA:N	2.63	0.57
3:I:1169:ASP:O	3:I:1172:HIS:HB2	2.05	0.57
3:I:1198:TYR:OH	3:I:1394:VAL:HG11	2.05	0.57
3:I:1384:PRO:CG	3:I:1389:LEU:HB3	2.33	0.57
4:J:24:ALA:O	4:J:27:ALA:N	2.38	0.57
2:M:118:ILE:HD12	2:M:118:ILE:O	2.05	0.57
2:M:144:PRO:O	2:M:276:LYS:HD3	2.04	0.57
2:M:582:GLY:C	2:M:583:LEU:HD12	2.29	0.57
2:M:728:HIS:O	2:M:729:LEU:HD22	2.04	0.57
2:M:1005:MET:O	2:M:1005:MET:HE3	2.05	0.57
2:M:1038:TRP:NE1	3:N:1099:VAL:HG11	2.20	0.57
2:M:1042:ALA:HB2	3:N:1223:ILE:CG2	2.34	0.57
3:N:102:ILE:CD1	3:N:106:LYS:HB2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:107:ASP:O	3:N:108:VAL:C	2.46	0.57
3:N:199:LEU:HD23	3:N:200:ASP:N	2.19	0.57
1:B:206:THR:HG23	1:B:208:LEU:N	2.20	0.57
2:C:338:GLU:HA	2:C:341:THR:CG2	2.35	0.57
2:C:851:LYS:HG2	2:C:853:LEU:HD12	1.85	0.57
2:C:1050:GLN:CD	2:C:1079:PRO:HG2	2.29	0.57
3:D:129:PHE:CZ	3:D:587:ARG:CD	2.87	0.57
3:D:204:LEU:HD13	3:D:441:ARG:NH1	2.20	0.57
3:D:351:MET:HA	3:D:370:ALA:HB2	1.87	0.57
3:D:553:ARG:HH12	3:D:573:MET:HE1	1.70	0.57
3:D:671:LYS:O	3:D:675:ARG:HG3	2.05	0.57
3:D:1144:LEU:HD22	3:D:1166:LEU:HD11	1.87	0.57
3:D:1283:ILE:HG22	3:D:1284:GLU:N	2.18	0.57
2:H:52:PHE:HB3	2:H:53:PRO:HD3	1.86	0.57
2:H:374:ASN:HD22	2:H:374:ASN:N	1.99	0.57
2:H:443:THR:HG21	3:I:1078:ARG:CD	2.35	0.57
2:H:685:GLU:OE2	7:Y:41:ASP:HB2	2.05	0.57
2:H:1078:GLU:OE1	2:H:1078:GLU:HA	2.04	0.57
3:I:151:GLN:C	3:I:152:LEU:HD23	2.30	0.57
3:I:474:GLU:O	3:I:478:LEU:HG	2.03	0.57
3:I:631:ILE:HG12	3:I:740:PHE:CE2	2.39	0.57
3:I:729:HIS:CE1	3:I:730:PRO:HG2	2.40	0.57
3:I:982:PHE:HD2	3:I:982:PHE:H	1.52	0.57
3:I:1106:VAL:CG1	3:I:1107:VAL:H	2.15	0.57
1:K:218:LEU:O	1:K:222:LEU:HD13	2.04	0.57
1:L:57:TYR:CD2	1:L:161:ARG:HG2	2.39	0.57
2:M:129:ILE:CD1	2:M:134:ARG:HB2	2.35	0.57
2:M:654:LEU:CD1	2:M:663:ASN:C	2.77	0.57
3:N:88:TYR:N	3:N:88:TYR:HD2	2.01	0.57
3:N:138:LYS:HD3	3:N:138:LYS:H	1.69	0.57
3:N:625:TYR:HB3	3:N:749:VAL:CG2	2.30	0.57
2:C:575:GLN:NE2	2:C:670:GLN:OE1	2.38	0.57
2:C:675:ALA:HA	2:C:989:VAL:CG1	2.29	0.57
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.87	0.57
3:D:111:LYS:HG3	3:D:1452:ILE:HG12	1.87	0.57
3:D:812:ALA:O	3:D:816:HIS:HB2	2.04	0.57
2:H:212:GLY:C	2:H:214:TYR:N	2.63	0.57
2:H:265:ARG:HG2	2:H:267:TYR:CD1	2.38	0.57
2:H:309:TYR:O	2:H:313:LEU:HD12	2.01	0.57
2:H:555:ALA:HA	3:I:1070:TYR:OH	2.04	0.57
2:H:579:VAL:HB	2:H:890:LEU:HD22	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1029:GLY:O	3:I:622:ARG:NE	2.37	0.57
3:I:41:ARG:O	3:I:42:ASP:CB	2.53	0.57
3:I:140:ALA:HB3	3:I:432:TYR:CE1	2.39	0.57
2:M:22:GLN:NE2	2:M:336:VAL:CG2	2.68	0.57
2:M:186:VAL:HG23	2:M:186:VAL:O	2.04	0.57
2:M:516:ARG:NH1	2:M:521:PRO:HB3	2.19	0.57
3:N:36:THR:C	3:N:38:LYS:N	2.59	0.57
3:N:167:GLU:OE2	3:N:198:ARG:HB2	2.04	0.57
3:N:178:LEU:HD11	3:N:191:LEU:HA	1.86	0.57
3:N:729:HIS:CE1	3:N:730:PRO:HG2	2.40	0.57
3:N:1169:ASP:O	3:N:1172:HIS:HB2	2.05	0.57
3:N:1326:THR:CG2	3:N:1327:ARG:H	2.18	0.57
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.39	0.57
3:N:1498:ALA:HB2	4:O:88:GLU:OE1	2.05	0.57
7:X:91:LEU:HB3	7:X:149:PHE:HB3	1.87	0.57
7:Z:91:LEU:HB3	7:Z:149:PHE:HB3	1.87	0.57
1:B:71:VAL:HG13	1:B:132:LEU:CD1	2.35	0.57
1:B:150:TYR:CE1	1:B:170:VAL:HG12	2.36	0.57
2:C:9:ILE:HD13	2:C:907:ASP:HB2	1.86	0.57
2:C:606:VAL:HG21	2:C:645:VAL:HG22	1.87	0.57
2:C:897:LEU:HB3	2:C:899:GLN:NE2	2.20	0.57
2:C:1085:PHE:O	2:C:1089:VAL:HG23	2.05	0.57
3:D:52:PRO:CA	3:D:86:ARG:HD3	2.35	0.57
3:D:166:GLN:NE2	3:D:396:VAL:HG12	2.19	0.57
3:D:538:SER:HB3	3:D:541:ASN:HD22	1.70	0.57
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.70	0.57
3:D:1041:LEU:HD12	3:D:1058:ARG:HA	1.85	0.57
1:F:26:GLU:OE2	1:F:194:LYS:HE3	2.05	0.57
1:F:151:VAL:HB	1:F:169:ALA:HB3	1.86	0.57
1:G:197:LEU:O	1:G:197:LEU:HD23	2.05	0.57
2:H:12:VAL:HG22	2:H:13:ILE:HG22	1.87	0.57
2:H:334:ARG:HG2	2:H:338:GLU:OE1	2.05	0.57
2:H:397:GLU:HG2	2:H:403:SER:HB3	1.87	0.57
2:H:862:PRO:HG2	2:H:925:TYR:OH	2.05	0.57
3:I:624:ASP:O	3:I:625:TYR:HB2	2.04	0.57
3:I:696:HIS:NE2	4:J:54:LEU:HD11	2.20	0.57
3:I:789:LEU:HD13	3:I:934:LEU:HD22	1.85	0.57
3:I:881:LEU:HD11	3:I:885:ILE:HD11	1.86	0.57
3:I:1402:ALA:HB2	3:I:1415:VAL:CG2	2.35	0.57
3:I:1437:ALA:HB1	3:I:1446:VAL:CG2	2.34	0.57
4:J:22:VAL:HG12	4:J:68:LEU:HD21	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:95:TYR:HB3	2:M:114:PHE:HA	1.87	0.57
2:M:274:ARG:HD2	2:M:285:LEU:HD13	1.87	0.57
2:M:334:ARG:HA	2:M:338:GLU:OE2	2.04	0.57
2:M:361:MET:C	2:M:361:MET:HE2	2.30	0.57
2:M:443:THR:HG21	3:N:1078:ARG:CD	2.35	0.57
2:M:948:GLU:HG2	2:M:955:PRO:HG3	1.85	0.57
3:N:368:VAL:HB	3:N:377:VAL:HB	1.85	0.57
3:N:671:LYS:O	3:N:675:ARG:CG	2.52	0.57
3:N:899:LEU:HD12	3:N:900:ILE:CG2	2.34	0.57
3:N:1344:VAL:O	3:N:1348:LEU:HD13	2.04	0.57
3:N:1453:ALA:O	3:N:1455:LYS:N	2.38	0.57
7:X:103:GLN:NE2	7:X:105:VAL:HG13	2.18	0.57
7:Z:107:PRO:HA	7:Z:120:SER:OG	2.04	0.57
1:B:56:VAL:HG21	1:B:82:LEU:CD1	2.34	0.56
1:B:179:PHE:H	1:B:179:PHE:HD2	1.53	0.56
2:C:588:VAL:CG1	2:C:661:SER:HB3	2.35	0.56
3:D:159:ARG:NH2	2:H:208:ALA:HB1	2.21	0.56
3:D:349:PRO:HB3	2:H:274:ARG:CZ	2.35	0.56
2:H:564:MET:CE	2:H:846:LYS:CD	2.82	0.56
2:H:679:PHE:C	3:I:943:THR:HG22	2.29	0.56
2:H:937:ASP:O	2:H:941:VAL:HG23	2.04	0.56
3:I:131:LYS:HB2	3:I:568:ARG:NH1	2.20	0.56
2:M:473:ARG:HD3	2:M:531:PHE:CZ	2.40	0.56
2:M:579:VAL:HB	2:M:890:LEU:HD22	1.87	0.56
2:M:593:ALA:HB1	2:M:659:PRO:HD2	1.87	0.56
2:M:654:LEU:HD23	2:M:654:LEU:N	2.17	0.56
2:M:872:ASN:ND2	2:M:874:LEU:HB2	2.19	0.56
3:N:86:ARG:HD3	3:N:523:ASP:OD2	2.02	0.56
3:N:393:ILE:HD12	3:N:393:ILE:N	2.20	0.56
3:N:465:LEU:HD22	3:N:510:GLU:HA	1.86	0.56
3:N:654:LYS:HB3	3:N:655:PRO:CD	2.29	0.56
3:N:970:LYS:HZ1	7:Z:113:LEU:CA	2.15	0.56
3:N:980:MET:CB	3:N:982:PHE:CE2	2.88	0.56
3:N:1280:VAL:HG22	3:N:1295:GLU:O	2.04	0.56
7:Z:5:VAL:HG23	7:Z:71:ARG:NH1	2.19	0.56
2:C:77:PRO:HD3	2:C:93:PRO:HD3	1.86	0.56
2:C:742:VAL:HG12	2:C:743:VAL:N	2.21	0.56
3:D:574:LEU:O	3:D:578:VAL:HG23	2.05	0.56
3:D:1094:LEU:HG	3:D:1098:LEU:CD1	2.35	0.56
1:F:31:GLY:N	1:F:193:ASP:OD1	2.29	0.56
2:H:445:GLU:HG3	2:H:560:MET:CE	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1060:ILE:O	2:H:1060:ILE:HG13	2.04	0.56
3:I:123:LEU:HD12	3:I:152:LEU:HD11	1.86	0.56
3:I:671:LYS:O	3:I:675:ARG:HG3	2.05	0.56
4:J:59:ASN:HB3	4:J:62:THR:OG1	2.05	0.56
2:M:22:GLN:NE2	2:M:136:ILE:O	2.38	0.56
2:M:26:TYR:HA	2:M:29:ALA:HB3	1.88	0.56
2:M:545:ASN:OD1	2:M:905:ILE:HG13	2.05	0.56
2:M:657:ASP:CG	2:M:663:ASN:H	2.13	0.56
1:A:115:LEU:HD12	1:A:116:PRO:HD2	1.87	0.56
1:B:56:VAL:CG2	1:B:142:VAL:HG12	2.32	0.56
2:C:73:LEU:CD2	2:C:118:ILE:HD11	2.36	0.56
2:C:249:LYS:O	2:C:250:ARG:C	2.48	0.56
2:C:285:LEU:HD21	2:C:287:GLY:O	2.05	0.56
2:C:342:ASP:HA	2:C:345:ARG:HD3	1.86	0.56
2:C:443:THR:HG21	3:D:1078:ARG:NE	2.20	0.56
2:C:455:LEU:CD1	2:C:456:ALA:O	2.54	0.56
2:C:1019:GLN:CD	3:D:621:LYS:HD2	2.30	0.56
2:C:1084:SER:O	2:C:1087:VAL:HG12	2.06	0.56
3:D:102:ILE:HD12	3:D:586:ARG:HG3	1.88	0.56
3:D:165:LYS:HD2	3:D:165:LYS:O	2.05	0.56
3:D:180:LYS:HG2	3:D:183:GLU:OE1	2.04	0.56
3:D:441:ARG:NH1	3:D:445:ARG:NH1	2.53	0.56
3:D:441:ARG:HB2	3:D:443:VAL:HG12	1.87	0.56
3:D:452:ILE:N	3:D:452:ILE:CD1	2.68	0.56
3:D:520:LEU:HD12	3:D:521:PRO:CD	2.31	0.56
3:D:1344:VAL:O	3:D:1348:LEU:HD13	2.04	0.56
4:E:10:PHE:CE1	4:E:16:LYS:HG3	2.41	0.56
1:G:159:LYS:HZ2	1:G:159:LYS:H	1.52	0.56
2:H:2:GLU:O	2:H:899:GLN:CB	2.53	0.56
2:H:267:TYR:CE2	2:H:289:THR:HG23	2.40	0.56
2:H:313:LEU:CG	2:H:320:HIS:HE1	2.12	0.56
2:H:455:LEU:CD1	2:H:456:ALA:O	2.54	0.56
2:H:516:ARG:NH1	2:H:521:PRO:HB3	2.20	0.56
2:H:564:MET:HE2	2:H:846:LYS:HD2	1.87	0.56
2:H:657:ASP:CG	2:H:663:ASN:H	2.14	0.56
2:H:742:VAL:HG12	2:H:743:VAL:N	2.20	0.56
3:I:970:LYS:HG2	3:I:995:LEU:HD13	1.87	0.56
3:I:1109:GLU:HG2	3:I:1201:CYS:HB2	1.86	0.56
3:I:1171:VAL:O	3:I:1175:ILE:HG13	2.04	0.56
3:I:1299:PHE:H	3:I:1299:PHE:HD2	1.53	0.56
3:I:1397:LYS:NZ	3:I:1432:LYS:HZ2	1.96	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1422:MET:CE	3:I:1427:SER:HA	2.35	0.56
3:I:1485:GLN:NE2	4:J:80:VAL:H	2.03	0.56
4:J:40:LEU:O	4:J:40:LEU:HD12	2.06	0.56
1:K:35:THR:HG23	1:L:39:PRO:HA	1.87	0.56
1:K:117:VAL:HG12	1:K:120:VAL:HG12	1.88	0.56
1:L:79:ILE:HD12	1:L:83:LYS:HE2	1.87	0.56
2:M:97:ARG:C	2:M:98:LEU:HD12	2.30	0.56
2:M:140:ILE:HD13	2:M:331:ARG:NE	2.20	0.56
2:M:140:ILE:HD11	2:M:331:ARG:NH2	2.11	0.56
2:M:175:GLU:O	2:M:183:SER:N	2.36	0.56
2:M:317:VAL:CG1	2:M:320:HIS:CE1	2.85	0.56
2:M:565:GLN:NE2	2:M:842:ARG:CG	2.61	0.56
3:N:546:ARG:HG2	3:N:546:ARG:NH1	2.20	0.56
3:N:550:ARG:NE	3:N:573:MET:HE2	2.20	0.56
3:N:676:MET:O	3:N:680:GLN:HB2	2.03	0.56
3:N:810:GLU:C	3:N:812:ALA:H	2.11	0.56
3:N:970:LYS:HZ3	7:Z:113:LEU:HD23	0.74	0.56
3:N:996:TRP:HA	3:N:999:THR:HG22	1.87	0.56
4:O:37:ASN:HD22	4:O:37:ASN:N	2.02	0.56
4:O:47:LYS:N	4:O:54:LEU:HD13	2.19	0.56
7:Y:7:LEU:CD2	7:Y:72:ALA:HB1	2.32	0.56
2:C:44:ILE:HD11	2:C:340:MET:HE1	1.87	0.56
2:C:50:GLU:HG2	2:C:51:THR:N	2.20	0.56
2:C:267:TYR:OH	2:C:289:THR:HG22	2.05	0.56
2:C:332:ARG:CZ	2:C:464:LEU:HG	2.35	0.56
2:C:997:LEU:C	2:C:999:HIS:N	2.64	0.56
3:D:481:MET:HE1	3:D:496:LEU:HD23	1.88	0.56
3:D:550:ARG:HD3	3:D:573:MET:HB3	1.88	0.56
2:H:139:GLN:HB3	2:H:334:ARG:HD3	1.87	0.56
2:H:139:GLN:OE1	2:H:334:ARG:NH1	2.35	0.56
2:H:178:PRO:O	2:H:180:GLY:N	2.37	0.56
2:H:253:ALA:O	2:H:256:TYR:HB3	2.06	0.56
2:H:722:ILE:HG23	2:H:722:ILE:O	2.06	0.56
2:H:1088:LEU:HD21	3:I:614:PHE:CE1	2.39	0.56
3:I:50:PHE:HA	3:I:89:ARG:HG2	1.86	0.56
3:I:521:PRO:HD2	3:I:524:LEU:HD13	1.87	0.56
3:I:1110:ALA:O	3:I:1111:ASP:C	2.48	0.56
3:I:1140:ILE:CG2	3:I:1144:LEU:HD12	2.35	0.56
3:I:1364:HIS:CE1	3:I:1366:LYS:HG3	2.39	0.56
4:J:37:ASN:N	4:J:37:ASN:ND2	2.53	0.56
1:K:66:SER:O	1:K:75:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:197:LEU:O	1:L:197:LEU:HD23	2.05	0.56
1:L:206:THR:HG23	1:L:208:LEU:N	2.20	0.56
2:M:52:PHE:CE2	2:M:98:LEU:HG	2.40	0.56
2:M:115:LEU:CD2	2:M:115:LEU:N	2.65	0.56
2:M:279:GLU:HG3	2:M:280:LYS:N	2.20	0.56
2:M:579:VAL:CG1	2:M:887:GLU:HG3	2.31	0.56
2:M:689:VAL:HB	2:M:870:ILE:CG1	2.28	0.56
2:M:1054:THR:O	2:M:1056:LYS:N	2.38	0.56
2:M:1063:ARG:O	2:M:1063:ARG:HD2	2.06	0.56
3:N:26:VAL:HG23	3:N:93:ILE:HG12	1.86	0.56
3:N:179:VAL:HG13	3:N:183:GLU:HB3	1.88	0.56
3:N:432:TYR:HB3	3:N:450:TYR:CB	2.36	0.56
3:N:783:ARG:CZ	7:Z:41:ASP:CB	2.78	0.56
7:Y:103:GLN:HE21	7:Y:105:VAL:CG1	2.19	0.56
7:Z:89:VAL:HG22	7:Z:154:ILE:HG23	1.88	0.56
2:C:680:ASP:O	3:D:939:PHE:HB3	2.05	0.56
2:C:1095:LEU:HD11	2:C:1097:LEU:CB	2.28	0.56
2:C:1097:LEU:HD11	3:D:1451:ALA:HA	1.87	0.56
3:D:632:VAL:HG23	3:D:725:SER:HB2	1.87	0.56
3:D:685:ASP:O	3:D:689:ASP:N	2.35	0.56
3:D:731:LEU:HD22	3:D:779:ALA:O	2.05	0.56
3:D:1443:THR:O	3:D:1447:LEU:HD13	2.05	0.56
4:E:37:ASN:HD22	4:E:37:ASN:N	2.03	0.56
1:F:117:VAL:HG12	1:F:120:VAL:HG12	1.88	0.56
1:G:48:ILE:HD12	1:G:48:ILE:N	2.20	0.56
2:H:31:GLN:NE2	2:H:71:TYR:OH	2.38	0.56
2:H:88:LEU:HD13	2:H:89:THR:H	1.69	0.56
2:H:266:ARG:HA	2:H:288:ARG:CD	2.18	0.56
3:I:137:PRO:CD	3:I:453:ASP:HB2	2.36	0.56
3:I:421:LEU:HB2	3:I:427:VAL:HG12	1.87	0.56
3:I:639:LEU:HD12	3:I:640:HIS:N	2.20	0.56
3:I:743:ASP:OD1	6:S:16:G:O3'	2.24	0.56
4:J:26:ARG:NH1	4:J:73:LEU:HD21	2.19	0.56
3:N:111:LYS:HD3	3:N:1448:THR:CG2	2.35	0.56
3:N:372:ASP:C	3:N:374:GLU:N	2.63	0.56
3:N:454:ALA:O	3:N:455:ARG:HG2	2.06	0.56
3:N:481:MET:HE1	3:N:496:LEU:HD23	1.88	0.56
3:N:798:GLU:HG2	3:N:799:LYS:H	1.69	0.56
3:N:1493:LYS:HA	3:N:1493:LYS:NZ	2.21	0.56
4:O:6:ILE:HD11	4:O:10:PHE:CE2	2.40	0.56
5:R:21:DC:N3	6:S:10:G:O6	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:7:LEU:HD13	7:X:15:LEU:HD12	1.85	0.56
2:C:516:ARG:NH1	2:C:521:PRO:HB3	2.19	0.56
2:C:524:VAL:HG12	2:C:525:SER:H	1.69	0.56
3:D:168:THR:CG2	3:D:169:TYR:H	2.16	0.56
3:D:911:LEU:O	3:D:915:VAL:HG23	2.06	0.56
3:D:970:LYS:HG2	3:D:995:LEU:HD13	1.87	0.56
3:D:1102:THR:HA	3:D:1105:ILE:CD1	2.34	0.56
2:H:298:PHE:N	2:H:298:PHE:CD1	2.73	0.56
2:H:794:PRO:HG2	2:H:1025:ALA:CA	2.34	0.56
3:I:606:ILE:HG13	3:I:613:ARG:CG	2.35	0.56
2:M:79:PRO:CG	2:M:82:GLU:HG3	2.35	0.56
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.87	0.56
2:M:831:ARG:HH12	2:M:1002:GLU:CB	2.19	0.56
3:N:127:LEU:HD23	3:N:134:VAL:CG1	2.36	0.56
3:N:639:LEU:HD12	3:N:640:HIS:N	2.21	0.56
7:Z:58:ILE:HG22	7:Z:62:ILE:HD13	1.86	0.56
1:A:42:ARG:NH2	1:B:31:GLY:O	2.38	0.56
1:B:152:PRO:HG3	3:D:857:ILE:HG13	1.88	0.56
2:C:224:GLU:HB3	2:C:228:ALA:H	1.70	0.56
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.05	0.56
3:D:165:LYS:HZ1	3:D:199:LEU:HD22	1.70	0.56
3:D:729:HIS:CE1	3:D:730:PRO:HG2	2.40	0.56
3:D:1007:VAL:HG11	3:D:1039:CYS:HB2	1.86	0.56
3:D:1083:ASP:O	3:D:1087:ARG:HB3	2.05	0.56
3:D:1487:VAL:HG12	3:D:1488:ASP:N	2.20	0.56
4:E:18:ARG:O	4:E:22:VAL:HG23	2.06	0.56
1:G:48:ILE:HD12	1:G:48:ILE:H	1.70	0.56
1:G:177:VAL:HG12	1:G:199:ILE:HD12	1.88	0.56
2:H:328:LEU:HB2	2:H:488:ALA:CB	2.36	0.56
2:H:897:LEU:HD21	2:H:921:ALA:CA	2.36	0.56
2:H:1095:LEU:HD11	2:H:1097:LEU:HD23	1.88	0.56
3:I:516:ALA:O	3:I:518:PRO:HD3	2.05	0.56
3:I:520:LEU:HD12	3:I:521:PRO:HD2	1.87	0.56
3:I:705:ALA:HB1	3:I:706:PRO:HD3	1.88	0.56
3:I:1161:GLU:OE2	3:I:1164:ARG:CD	2.50	0.56
3:I:1166:LEU:HD23	3:I:1166:LEU:N	2.21	0.56
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.88	0.56
2:M:1043:TYR:CD2	3:N:710:ARG:HD2	2.40	0.56
2:M:1095:LEU:HD11	2:M:1097:LEU:HD23	1.87	0.56
2:M:1097:LEU:CD1	3:N:1451:ALA:CB	2.83	0.56
3:N:87:ARG:HB2	3:N:524:LEU:HD11	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:215:TYR:HE2	3:N:343:LYS:HB2	1.70	0.56
3:N:470:LEU:HD23	3:N:470:LEU:N	2.18	0.56
3:N:678:GLU:OE1	3:N:679:ARG:N	2.39	0.56
3:N:731:LEU:HD22	3:N:779:ALA:O	2.05	0.56
3:N:1402:ALA:HB2	3:N:1415:VAL:CG2	2.35	0.56
7:Y:91:LEU:HD11	7:Y:129:LEU:HD21	1.88	0.56
7:Z:89:VAL:HG12	7:Z:90:GLU:N	2.19	0.56
1:B:20:TYR:CD2	1:B:21:GLY:N	2.74	0.56
1:B:92:PRO:HA	1:B:146:ARG:HH12	1.70	0.56
2:C:64:LEU:CB	2:C:359:MET:HG3	2.35	0.56
2:C:136:ILE:N	2:C:136:ILE:CD1	2.68	0.56
2:C:139:GLN:HB3	2:C:334:ARG:HB2	1.88	0.56
3:D:26:VAL:HG23	3:D:93:ILE:HG12	1.86	0.56
3:D:119:SER:CB	3:D:123:LEU:H	2.18	0.56
3:D:158:TYR:CE1	3:D:162:ARG:CB	2.89	0.56
3:D:160:GLU:HG2	3:D:165:LYS:HB2	1.85	0.56
3:D:638:LYS:HD3	3:D:932:ASP:HB3	1.87	0.56
3:D:980:MET:CB	3:D:982:PHE:CE2	2.88	0.56
3:D:1468:LEU:CD2	3:D:1470:ARG:HD3	2.36	0.56
2:H:295:ASP:C	2:H:297:GLU:H	2.14	0.56
2:H:313:LEU:HB3	2:H:320:HIS:CE1	2.41	0.56
2:H:1095:LEU:HD11	2:H:1097:LEU:CB	2.28	0.56
3:I:18:ILE:CG2	3:I:518:PRO:HG3	2.36	0.56
3:I:26:VAL:HG23	3:I:93:ILE:HG12	1.86	0.56
3:I:862:ASP:O	3:I:877:PRO:HD3	2.06	0.56
3:I:1140:ILE:HG22	3:I:1144:LEU:HD12	1.86	0.56
1:K:42:ARG:NH1	1:L:34:VAL:CG1	2.69	0.56
2:M:500:ASN:N	2:M:500:ASN:HD22	2.02	0.56
2:M:544:THR:O	2:M:547:ILE:HD13	2.06	0.56
2:M:701:THR:HG23	2:M:832:LYS:HA	1.88	0.56
2:M:1078:GLU:HA	2:M:1078:GLU:OE1	2.04	0.56
3:N:133:ILE:HG23	3:N:455:ARG:C	2.31	0.56
3:N:141:ILE:HG13	3:N:448:GLU:OE2	2.06	0.56
3:N:421:LEU:HB2	3:N:427:VAL:HG12	1.87	0.56
3:N:1487:VAL:HG12	3:N:1488:ASP:H	1.69	0.56
7:Z:78:GLY:O	7:Z:156:GLY:HA2	2.06	0.56
7:Z:83:ILE:HG13	7:Z:154:ILE:HD13	1.87	0.56
1:B:57:TYR:HE1	1:B:163:ASN:HD21	1.54	0.56
2:C:196:LEU:HD22	2:C:303:PHE:CD2	2.39	0.56
2:C:292:ARG:CG	2:C:299:LYS:HB3	2.35	0.56
3:D:160:GLU:HG3	3:D:165:LYS:HE3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:408:GLU:OE2	3:D:409:VAL:HG23	2.06	0.56
3:D:996:TRP:HA	3:D:999:THR:HG22	1.87	0.56
3:D:1168:MET:HE3	3:D:1171:VAL:HB	1.88	0.56
3:D:1408:ILE:N	3:D:1408:ILE:HD12	2.21	0.56
1:G:20:TYR:CD2	1:G:21:GLY:N	2.74	0.56
2:H:22:GLN:HB3	2:H:121:MET:CE	2.36	0.56
2:H:245:GLY:C	2:H:246:ASP:CG	2.71	0.56
2:H:480:THR:HB	2:H:482:GLU:H	1.71	0.56
2:H:575:GLN:NE2	2:H:670:GLN:OE1	2.38	0.56
2:H:679:PHE:C	3:I:943:THR:CG2	2.79	0.56
3:I:638:LYS:HD3	3:I:932:ASP:HB3	1.87	0.56
4:J:33:HIS:CG	4:J:89:MET:HG2	2.40	0.56
1:L:177:VAL:HG12	1:L:199:ILE:HD12	1.88	0.56
2:M:12:VAL:HG21	2:M:472:ARG:HH11	1.70	0.56
2:M:36:PRO:HG2	2:M:70:GLU:HG2	1.87	0.56
2:M:111:ASP:HB2	2:M:369:PRO:HG2	1.78	0.56
2:M:806:LEU:HD13	2:M:813:VAL:HG21	1.88	0.56
2:M:897:LEU:HD22	2:M:920:GLN:HG2	1.88	0.56
2:M:1042:ALA:HB2	3:N:1223:ILE:HG21	1.87	0.56
3:N:501:ALA:HB3	3:N:1452:ILE:CG2	2.36	0.56
7:Y:120:SER:O	7:Y:123:SER:HB3	2.06	0.56
1:A:117:VAL:HG12	1:A:120:VAL:HG12	1.88	0.56
1:B:76:VAL:O	1:B:79:ILE:HG13	2.06	0.56
2:C:806:LEU:HD13	2:C:813:VAL:HG21	1.88	0.56
3:D:86:ARG:CB	3:D:523:ASP:OD2	2.54	0.56
3:D:165:LYS:HD3	3:D:167:GLU:CB	2.25	0.56
3:D:465:LEU:HD22	3:D:510:GLU:HA	1.86	0.56
3:D:639:LEU:HD12	3:D:640:HIS:N	2.21	0.56
3:D:862:ASP:O	3:D:877:PRO:HD3	2.06	0.56
3:D:982:PHE:CE1	7:X:100:LEU:CD2	2.87	0.56
3:D:1234:THR:HB	3:D:1235:GLN:OE1	2.06	0.56
3:D:1312:LEU:HD11	3:D:1327:ARG:HH21	1.68	0.56
3:D:1402:ALA:HB2	3:D:1415:VAL:CG2	2.35	0.56
1:G:137:ARG:HB3	1:G:137:ARG:HH11	1.71	0.56
2:H:54:ILE:O	2:H:54:ILE:HG23	2.05	0.56
2:H:185:LYS:CD	2:H:190:LYS:CG	2.80	0.56
2:H:295:ASP:O	2:H:297:GLU:N	2.38	0.56
2:H:437:ARG:NH1	2:H:491:GLU:OE2	2.37	0.56
2:H:1032:PHE:CE1	2:H:1052:MET:HE3	2.41	0.56
2:H:1071:ILE:HD12	3:I:670:VAL:HG11	1.88	0.56
3:I:696:HIS:CD2	4:J:58:PRO:CB	2.89	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:25:LYS:O	4:J:29:GLN:HG3	2.05	0.56
1:L:20:TYR:CD2	1:L:21:GLY:N	2.74	0.56
1:L:102:LYS:NZ	1:L:137:ARG:NH1	2.54	0.56
2:M:524:VAL:CG1	2:M:525:SER:N	2.69	0.56
2:M:707:ARG:HG3	2:M:826:TYR:HE1	1.67	0.56
2:M:742:VAL:HG12	2:M:743:VAL:N	2.20	0.56
3:N:101:HIS:ND1	3:N:103:TRP:HB2	2.17	0.56
3:N:127:LEU:HD12	3:N:127:LEU:H	1.71	0.56
3:N:185:VAL:HG12	3:N:186:VAL:N	2.21	0.56
3:N:355:VAL:CG2	3:N:367:ILE:HG23	2.36	0.56
3:N:538:SER:O	3:N:540:LEU:N	2.39	0.56
7:Y:17:GLN:O	7:Y:21:ARG:HD3	2.06	0.56
1:A:198:ARG:NH2	2:C:934:PHE:CD1	2.74	0.55
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.88	0.55
1:B:177:VAL:HG12	1:B:199:ILE:HD12	1.87	0.55
2:C:496:ILE:HD12	2:C:496:ILE:N	2.21	0.55
2:C:571:LEU:HD11	2:C:701:THR:H	1.70	0.55
3:D:347:VAL:HG13	3:D:351:MET:HB2	1.88	0.55
3:D:490:ALA:O	3:D:493:ARG:HG3	2.06	0.55
3:D:991:GLN:CD	7:X:112:VAL:H	2.14	0.55
3:D:1264:GLU:CD	3:D:1424:VAL:HG13	2.31	0.55
3:D:1372:VAL:CA	3:D:1375:MET:HE3	2.26	0.55
3:D:1472:ILE:O	3:D:1477:GLY:HA3	2.06	0.55
1:G:170:VAL:HG11	3:I:848:GLU:CD	2.31	0.55
1:G:179:PHE:H	1:G:179:PHE:HD2	1.53	0.55
1:G:197:LEU:HD21	1:G:199:ILE:HD11	1.88	0.55
2:H:170:PRO:HD3	2:H:263:ASP:OD1	2.06	0.55
2:H:578:VAL:HG11	2:H:991:GLN:HB3	1.88	0.55
2:H:690:ILE:HG23	2:H:852:ILE:HA	1.88	0.55
3:I:606:ILE:HG13	3:I:613:ARG:HG3	1.87	0.55
3:I:1491:THR:O	3:I:1494:ALA:HB3	2.06	0.55
2:M:249:LYS:O	2:M:250:ARG:C	2.49	0.55
2:M:1088:LEU:CD2	2:M:1092:LEU:HD12	2.33	0.55
3:N:862:ASP:O	3:N:877:PRO:HD3	2.06	0.55
7:Y:89:VAL:HG12	7:Y:91:LEU:HD21	1.85	0.55
2:C:221:LEU:HD12	2:C:222:MET:CA	2.37	0.55
2:C:1036:GLU:O	2:C:1039:ALA:HB3	2.06	0.55
3:D:33:ASN:ND2	3:D:35:ARG:NH2	2.53	0.55
3:D:149:LYS:H	3:D:149:LYS:CE	2.18	0.55
3:D:1359:GLN:O	7:X:37:MET:HE1	2.06	0.55
4:E:30:LEU:O	4:E:35:PHE:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:115:LEU:HD12	1:F:116:PRO:HD2	1.87	0.55
2:H:252:LYS:O	2:H:255:ALA:N	2.36	0.55
2:H:456:ALA:HB3	2:H:459:ALA:HB2	1.88	0.55
3:I:401:TYR:OH	3:I:430:ASP:HB2	2.06	0.55
2:M:181:VAL:HG12	2:M:223:ASP:OD2	2.07	0.55
2:M:290:LEU:HD12	2:M:290:LEU:O	2.06	0.55
2:M:441:VAL:HG12	2:M:559:LEU:HA	1.88	0.55
2:M:496:ILE:N	2:M:496:ILE:CD1	2.69	0.55
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.88	0.55
2:M:862:PRO:HG2	2:M:925:TYR:OH	2.05	0.55
3:N:156:GLU:HB2	3:N:157:GLU:OE2	2.06	0.55
3:N:456:MET:SD	3:N:568:ARG:NH2	2.79	0.55
3:N:590:PRO:O	3:N:600:LEU:HD12	2.05	0.55
3:N:762:GLN:HE21	4:O:20:THR:CB	2.18	0.55
3:N:800:LYS:HD3	3:N:830:ALA:O	2.06	0.55
3:N:1136:LYS:O	3:N:1140:ILE:HG13	2.06	0.55
3:N:1408:ILE:HD12	3:N:1408:ILE:N	2.21	0.55
7:X:90:GLU:HA	7:X:100:LEU:O	2.06	0.55
1:A:107:LYS:NZ	1:A:113:ASP:OD2	2.37	0.55
1:B:45:LEU:HD11	1:B:177:VAL:HG22	1.87	0.55
1:B:54:THR:C	1:B:167:VAL:HG23	2.32	0.55
2:C:12:VAL:HB	2:C:472:ARG:NH1	2.22	0.55
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.06	0.55
2:C:553:ASP:OD1	2:C:843:HIS:ND1	2.37	0.55
2:C:679:PHE:CE2	2:C:853:LEU:HD21	2.41	0.55
2:C:690:ILE:HG23	2:C:852:ILE:HA	1.87	0.55
3:D:134:VAL:O	3:D:454:ALA:CB	2.49	0.55
3:D:553:ARG:HD2	3:D:570:GLU:OE1	2.07	0.55
3:D:702:LEU:O	3:D:713:ILE:HA	2.07	0.55
3:D:882:PHE:O	3:D:886:VAL:HG23	2.07	0.55
3:D:1286:THR:HG22	3:D:1287:GLU:N	2.16	0.55
1:G:206:THR:HG23	1:G:208:LEU:N	2.20	0.55
2:H:242:LEU:HD11	2:H:254:VAL:HG11	1.87	0.55
2:H:332:ARG:HD2	2:H:464:LEU:HG	1.89	0.55
2:H:441:VAL:HG12	2:H:559:LEU:HA	1.88	0.55
2:H:580:MET:HE2	2:H:902:ILE:HG12	1.88	0.55
2:H:685:GLU:HG2	7:Y:41:ASP:OD1	1.99	0.55
2:H:1075:ASP:HB2	4:J:31:LEU:HD13	1.88	0.55
3:I:24:GLY:HA3	3:I:49:ILE:HG12	1.89	0.55
3:I:119:SER:O	3:I:121:THR:N	2.40	0.55
3:I:550:ARG:NH1	3:I:573:MET:HB3	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:956:ILE:CD1	3:I:1062:ARG:HG3	2.36	0.55
3:I:1123:PHE:CE2	3:I:1184:GLN:HA	2.40	0.55
3:I:1460:ILE:O	3:I:1460:ILE:HD12	2.06	0.55
1:K:115:LEU:HD12	1:K:116:PRO:HD2	1.87	0.55
2:M:86:LYS:HD2	2:M:813:VAL:HB	1.88	0.55
2:M:162:ILE:HG22	2:M:172:ILE:HD13	1.88	0.55
2:M:272:ALA:HA	2:M:464:LEU:HD21	1.88	0.55
2:M:431:HIS:H	2:M:434:HIS:CE1	2.24	0.55
2:M:540:PHE:HZ	3:N:1070:TYR:HD1	1.54	0.55
3:N:93:ILE:HG12	3:N:548:ILE:HD11	1.89	0.55
3:N:189:GLN:NE2	3:N:191:LEU:H	2.03	0.55
3:N:470:LEU:HD12	3:N:503:LEU:CD2	2.37	0.55
1:A:86:VAL:HG13	1:A:86:VAL:O	2.07	0.55
2:C:363:SER:OG	2:C:366:SER:HB2	2.07	0.55
3:D:705:ALA:HB1	3:D:706:PRO:HD3	1.88	0.55
1:F:222:LEU:HD21	1:G:218:LEU:HD23	1.88	0.55
2:H:679:PHE:O	2:H:680:ASP:C	2.49	0.55
2:H:728:HIS:O	2:H:729:LEU:HB3	2.06	0.55
2:H:850:ALA:HA	3:I:632:VAL:HG11	1.88	0.55
2:H:1084:SER:O	2:H:1087:VAL:HG12	2.06	0.55
3:I:47:GLU:O	3:I:51:GLY:N	2.38	0.55
3:I:177:ALA:N	3:I:390:PRO:HD3	2.16	0.55
3:I:202:VAL:HG11	3:I:445:ARG:NH2	2.21	0.55
3:I:481:MET:HE1	3:I:496:LEU:HD23	1.88	0.55
3:I:615:ARG:HG3	3:I:619:LEU:CD1	2.37	0.55
3:I:632:VAL:HG23	3:I:725:SER:HB2	1.87	0.55
3:I:1442:ASN:HD21	3:I:1444:THR:HB	1.71	0.55
1:K:33:GLY:O	1:K:195:LEU:HD13	2.06	0.55
1:L:52:ALA:HB2	1:L:170:VAL:O	2.06	0.55
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.87	0.55
2:M:158:TYR:O	2:M:310:LEU:HD11	2.06	0.55
2:M:426:ASP:C	2:M:426:ASP:OD1	2.50	0.55
2:M:455:LEU:CD1	2:M:456:ALA:O	2.54	0.55
2:M:524:VAL:HG12	2:M:525:SER:H	1.69	0.55
2:M:726:ILE:HG13	2:M:734:LEU:HD11	1.88	0.55
2:M:834:GLN:NE2	3:N:724:GLN:CG	2.61	0.55
2:M:1084:SER:O	2:M:1087:VAL:HG12	2.06	0.55
2:M:1086:ARG:HD3	3:N:88:TYR:CD2	2.41	0.55
3:N:350:HIS:CD2	3:N:371:ILE:HG12	2.41	0.55
3:N:699:VAL:HG22	3:N:756:GLN:OE1	2.06	0.55
3:N:980:MET:HB3	3:N:982:PHE:HE2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:982:PHE:HB2	3:N:983:LEU:HD23	1.88	0.55
3:N:1189:ARG:HB3	3:N:1204:CYS:HA	1.89	0.55
4:O:6:ILE:HD12	4:O:6:ILE:O	2.07	0.55
7:Y:90:GLU:HA	7:Y:100:LEU:O	2.06	0.55
1:B:59:GLU:HG3	1:B:60:ASP:H	1.71	0.55
1:B:124:ASN:ND2	1:B:127:LEU:HD22	2.21	0.55
2:C:202:TYR:OH	2:C:304:LEU:HD22	2.07	0.55
2:C:273:GLY:HA2	2:C:276:LYS:HZ3	1.71	0.55
2:C:897:LEU:HD21	2:C:921:ALA:CA	2.36	0.55
3:D:614:PHE:CE2	3:D:1438:ALA:HB1	2.42	0.55
3:D:942:SER:O	3:D:947:ILE:HD11	2.06	0.55
3:D:1047:LYS:HZ1	3:D:1053:PHE:HA	1.71	0.55
3:D:1209:LEU:HD22	3:D:1211:MET:CB	2.36	0.55
3:D:1282:ARG:HD2	3:D:1315:ASP:HB3	1.87	0.55
3:D:1301:LYS:HG3	3:D:1303:TYR:CZ	2.42	0.55
2:H:39:ARG:HD2	2:H:39:ARG:O	2.07	0.55
2:H:976:ASP:HB3	2:H:979:THR:HG22	1.88	0.55
3:I:731:LEU:HD22	3:I:779:ALA:O	2.05	0.55
3:I:911:LEU:O	3:I:915:VAL:HG23	2.06	0.55
3:I:1168:MET:HA	3:I:1168:MET:HE3	1.89	0.55
1:L:179:PHE:H	1:L:179:PHE:HD2	1.54	0.55
2:M:64:LEU:HB2	2:M:359:MET:CG	2.36	0.55
2:M:212:GLY:C	2:M:214:TYR:N	2.63	0.55
2:M:212:GLY:O	2:M:214:TYR:N	2.40	0.55
3:N:141:ILE:O	3:N:162:ARG:NH2	2.39	0.55
3:N:796:ARG:HB2	3:N:828:LYS:HD3	1.89	0.55
3:N:911:LEU:O	3:N:915:VAL:HG23	2.06	0.55
7:X:26:LEU:HD13	7:X:58:ILE:HG22	1.88	0.55
2:C:391:LEU:O	2:C:391:LEU:HD23	2.07	0.55
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.87	0.55
2:C:544:THR:O	2:C:547:ILE:HD13	2.06	0.55
2:C:657:ASP:CG	2:C:663:ASN:H	2.14	0.55
2:C:1095:LEU:HB2	3:D:101:HIS:CE1	2.41	0.55
3:D:51:GLY:C	3:D:86:ARG:HD3	2.32	0.55
3:D:187:LYS:HG3	3:D:198:ARG:C	2.32	0.55
3:D:407:VAL:HG22	3:D:408:GLU:N	2.10	0.55
3:D:729:HIS:CE1	3:D:731:LEU:H	2.24	0.55
3:D:982:PHE:HD2	3:D:982:PHE:H	1.53	0.55
3:D:1152:GLU:HG3	3:D:1161:GLU:HA	1.88	0.55
1:G:112:ARG:NH1	1:G:126:ASP:N	2.55	0.55
2:H:139:GLN:HE22	2:H:415:PRO:CD	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:332:ARG:HE	2:H:464:LEU:CD1	2.20	0.55
2:H:468:ARG:HB3	2:H:485:TYR:HB3	1.87	0.55
2:H:498:GLN:HA	2:H:498:GLN:HE21	1.71	0.55
2:H:544:THR:O	2:H:547:ILE:HD13	2.06	0.55
2:H:1034:GLU:OE1	3:I:1096:ARG:NH2	2.35	0.55
2:H:1083:GLU:CD	2:H:1086:ARG:HD2	2.31	0.55
2:H:1085:PHE:O	2:H:1089:VAL:HG23	2.05	0.55
3:I:191:LEU:HD22	3:I:393:ILE:HG21	1.87	0.55
3:I:729:HIS:CE1	3:I:731:LEU:H	2.24	0.55
2:M:140:ILE:HD13	2:M:331:ARG:HE	1.71	0.55
3:N:84:ILE:HG13	3:N:85:VAL:N	2.21	0.55
3:N:705:ALA:HB1	3:N:706:PRO:HD3	1.88	0.55
3:N:729:HIS:CE1	3:N:731:LEU:H	2.24	0.55
3:N:970:LYS:HG2	3:N:995:LEU:HD13	1.87	0.55
2:C:415:PRO:HB2	2:C:418:LEU:HD13	1.88	0.55
2:C:838:LYS:HD3	2:C:846:LYS:HZ3	1.71	0.55
2:C:976:ASP:HB3	2:C:979:THR:HG22	1.88	0.55
2:C:987:ILE:HD12	3:D:948:THR:HG23	1.88	0.55
3:D:804:LEU:N	3:D:804:LEU:CD2	2.70	0.55
1:F:35:THR:HG21	1:G:43:ILE:HD11	1.88	0.55
1:G:56:VAL:HG12	1:G:57:TYR:N	2.22	0.55
3:I:15:PRO:HB3	3:I:515:GLU:OE1	2.06	0.55
3:I:17:LYS:CG	3:I:21:TRP:HE1	2.20	0.55
3:I:400:VAL:HG13	3:I:443:VAL:CG2	2.36	0.55
3:I:470:LEU:HD12	3:I:503:LEU:CD2	2.37	0.55
3:I:563:PRO:O	3:I:566:ILE:N	2.36	0.55
3:I:636:GLN:HG2	3:I:637:LEU:N	2.22	0.55
3:I:702:LEU:O	3:I:713:ILE:HA	2.07	0.55
3:I:956:ILE:HD11	3:I:1062:ARG:HB3	1.89	0.55
3:I:982:PHE:HB2	3:I:983:LEU:HD23	1.88	0.55
3:I:1258:ARG:HH21	3:I:1262:LEU:HD11	1.70	0.55
2:M:39:ARG:CD	2:M:45:GLN:NE2	2.59	0.55
2:M:75:GLU:OE1	2:M:75:GLU:HA	2.06	0.55
2:M:192:PRO:O	2:M:195:LEU:HB3	2.06	0.55
2:M:206:THR:HG23	2:M:207:LEU:N	2.22	0.55
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.37	0.55
2:M:1029:GLY:O	3:N:622:ARG:HG2	2.06	0.55
3:N:17:LYS:CG	3:N:21:TRP:HE1	2.20	0.55
3:N:119:SER:H	3:N:123:LEU:CD2	2.20	0.55
3:N:780:LYS:HZ3	7:Z:38:GLU:HB3	1.70	0.55
3:N:1205:TYR:CZ	3:N:1366:LYS:HD3	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:36:LYS:HZ1	4:O:45:ARG:HH22	1.55	0.55
1:A:34:VAL:CG1	1:B:42:ARG:HH21	2.19	0.55
1:B:44:LEU:CA	1:B:48:ILE:HD13	2.35	0.55
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.89	0.55
2:C:64:LEU:HD12	2:C:100:LEU:HD11	1.89	0.55
2:C:165:LEU:HB3	2:C:265:ARG:NH1	2.20	0.55
2:C:717:LEU:HD13	2:C:761:PHE:HD2	1.70	0.55
3:D:1189:ARG:HB3	3:D:1204:CYS:HA	1.89	0.55
1:F:221:HIS:NE2	1:G:32:PHE:CD2	2.75	0.55
1:G:80:LEU:HD23	3:I:867:ARG:HG3	1.89	0.55
2:H:18:LEU:HD11	2:H:586:ARG:NH1	2.21	0.55
2:H:94:LEU:HD12	2:H:94:LEU:C	2.32	0.55
2:H:205:GLU:OE2	2:H:206:THR:HG22	2.06	0.55
3:I:38:LYS:O	3:I:39:PRO:C	2.50	0.55
3:I:1108:ARG:HD3	3:I:1108:ARG:N	2.21	0.55
3:I:1150:ALA:HB3	3:I:1187:PRO:HB2	1.89	0.55
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.89	0.55
2:M:500:ASN:OD1	3:N:1067:VAL:CG2	2.55	0.55
2:M:810:ASP:HB3	2:M:813:VAL:HG12	1.89	0.55
2:M:1006:HIS:CD2	2:M:1027:PHE:HB3	2.42	0.55
3:N:205:TYR:CD2	3:N:205:TYR:O	2.60	0.55
3:N:632:VAL:HG23	3:N:725:SER:HB2	1.87	0.55
3:N:1107:VAL:HG13	3:N:1200:VAL:O	2.07	0.55
3:N:1149:LEU:HG	3:N:1166:LEU:HD22	1.88	0.55
3:N:1264:GLU:CD	3:N:1424:VAL:HG13	2.31	0.55
3:N:1388:ARG:HA	3:N:1388:ARG:HH11	1.69	0.55
3:N:1486:VAL:CG1	4:O:22:VAL:HG13	2.37	0.55
5:T:18:DC:C2'	5:T:19:DC:H5'	2.28	0.55
1:A:56:VAL:CG1	1:A:142:VAL:HG12	2.27	0.55
1:B:79:ILE:HD12	1:B:83:LYS:HE3	1.89	0.55
3:D:181:ASP:O	3:D:205:TYR:N	2.40	0.55
3:D:190:GLU:HG2	3:D:196:VAL:CG2	2.36	0.55
3:D:457:GLY:O	3:D:460:ALA:N	2.39	0.55
3:D:1053:PHE:CZ	3:D:1072:ILE:HD12	2.42	0.55
3:D:1205:TYR:CZ	3:D:1366:LYS:HD3	2.42	0.55
4:E:54:LEU:HA	4:E:58:PRO:CG	2.36	0.55
1:G:74:ASP:HB2	3:I:872:ARG:HH21	1.71	0.55
2:H:71:TYR:H	2:H:71:TYR:HD2	1.53	0.55
2:H:162:ILE:HB	2:H:172:ILE:HB	1.87	0.55
2:H:351:LEU:CD1	2:H:374:ASN:ND2	2.68	0.55
2:H:426:ASP:C	2:H:426:ASP:OD1	2.50	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:524:VAL:CG1	2:H:525:SER:N	2.69	0.55
2:H:1037:VAL:O	2:H:1041:GLU:HG3	2.06	0.55
3:I:660:LYS:HA	3:I:660:LYS:NZ	2.22	0.55
3:I:800:LYS:HG3	3:I:829:VAL:CG1	2.37	0.55
2:M:327:HIS:O	2:M:330:ASN:N	2.35	0.55
2:M:897:LEU:HD21	2:M:921:ALA:CA	2.36	0.55
3:N:355:VAL:HG11	3:N:385:VAL:HG21	1.89	0.55
3:N:814:ALA:HB1	3:N:818:ARG:NH2	2.17	0.55
3:N:1205:TYR:CE2	3:N:1366:LYS:HD3	2.42	0.55
3:N:1380:GLU:HB2	3:N:1420:LEU:HD11	1.89	0.55
3:N:1460:ILE:HD12	3:N:1460:ILE:O	2.07	0.55
7:Y:115:THR:OG1	7:Y:116:PRO:HD3	2.06	0.55
1:A:23:PHE:HE2	1:A:199:ILE:HD12	1.72	0.55
1:A:35:THR:HG21	1:B:43:ILE:CG1	2.36	0.55
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.88	0.55
1:B:42:ARG:HH11	1:B:42:ARG:CG	2.19	0.55
1:B:58:ILE:N	1:B:58:ILE:CD1	2.70	0.55
2:C:441:VAL:HG12	2:C:559:LEU:HA	1.88	0.55
2:C:571:LEU:CD1	2:C:701:THR:N	2.69	0.55
2:C:1083:GLU:CD	2:C:1086:ARG:HD2	2.31	0.55
3:D:699:VAL:HG22	3:D:756:GLN:OE1	2.06	0.55
3:D:1426:LYS:HA	3:D:1429:LEU:HD22	1.89	0.55
2:H:165:LEU:HA	2:H:166:PRO:O	2.07	0.55
2:H:249:LYS:O	2:H:250:ARG:C	2.50	0.55
2:H:1009:SER:HB3	3:I:651:GLU:O	2.07	0.55
2:H:1043:TYR:HE2	3:I:768:ASN:ND2	2.04	0.55
3:I:780:LYS:HZ3	7:Y:38:GLU:HB3	1.73	0.55
3:I:789:LEU:CD1	3:I:911:LEU:HD21	2.37	0.55
3:I:949:ILE:CD1	3:I:1023:MET:HE1	2.37	0.55
3:I:1118:ILE:HG13	3:I:1192:LEU:HD12	1.88	0.55
3:I:1205:TYR:CE2	3:I:1366:LYS:HD3	2.42	0.55
3:I:1408:ILE:N	3:I:1408:ILE:HD12	2.21	0.55
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.42	0.55
2:M:1046:ALA:HB2	3:N:1476:THR:HB	1.89	0.55
2:M:1046:ALA:HB2	3:N:1476:THR:OG1	2.05	0.55
3:N:348:GLN:HB2	3:N:351:MET:SD	2.47	0.55
3:N:808:THR:OG1	3:N:809:PRO:HD3	2.07	0.55
3:N:1097:LYS:O	3:N:1100:ASP:HB2	2.07	0.55
3:N:1463:LYS:O	3:N:1466:VAL:HB	2.07	0.55
3:N:1468:LEU:HD23	3:N:1468:LEU:O	2.07	0.55
7:X:7:LEU:CD2	7:X:109:GLU:HB2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z:90:GLU:HA	7:Z:100:LEU:O	2.07	0.55
1:B:56:VAL:HG12	1:B:57:TYR:N	2.22	0.54
2:C:31:GLN:HG2	2:C:34:VAL:HG23	1.88	0.54
2:C:162:ILE:HB	2:C:172:ILE:HB	1.89	0.54
2:C:523:ILE:C	2:C:523:ILE:HD13	2.33	0.54
2:C:679:PHE:O	2:C:680:ASP:C	2.49	0.54
3:D:418:GLY:O	3:D:428:LYS:HD2	2.07	0.54
3:D:636:GLN:HG2	3:D:637:LEU:N	2.22	0.54
3:D:804:LEU:HB3	3:D:830:ALA:O	2.07	0.54
3:D:982:PHE:HB2	3:D:983:LEU:HD23	1.88	0.54
2:H:54:ILE:HG22	2:H:66:LEU:N	2.16	0.54
2:H:368:THR:HG22	2:H:369:PRO:HD3	1.89	0.54
2:H:547:ILE:HD12	2:H:547:ILE:N	2.22	0.54
3:I:204:LEU:O	3:I:393:ILE:HG23	2.08	0.54
3:I:806:PHE:C	3:I:808:THR:N	2.65	0.54
3:I:882:PHE:O	3:I:886:VAL:HG23	2.07	0.54
3:I:996:TRP:HA	3:I:999:THR:HG22	1.87	0.54
3:I:1466:VAL:HG12	3:I:1467:ILE:N	2.22	0.54
4:J:37:ASN:HD22	4:J:37:ASN:H	1.53	0.54
1:L:56:VAL:HG12	1:L:57:TYR:N	2.22	0.54
2:M:302:VAL:O	2:M:305:PRO:HD2	2.06	0.54
2:M:500:ASN:N	2:M:500:ASN:ND2	2.54	0.54
2:M:547:ILE:HD12	2:M:547:ILE:N	2.23	0.54
2:M:1014:SER:HB3	2:M:1019:GLN:H	1.71	0.54
3:N:86:ARG:NE	3:N:523:ASP:OD1	2.40	0.54
3:N:186:VAL:HA	3:N:200:ASP:OD2	2.07	0.54
3:N:394:LEU:HD23	3:N:394:LEU:N	2.22	0.54
3:N:433:GLY:HA3	3:N:446:VAL:HG12	1.87	0.54
3:N:636:GLN:HG2	3:N:637:LEU:N	2.22	0.54
3:N:875:THR:CG2	3:N:879:ARG:HB2	2.38	0.54
3:N:1053:PHE:CE1	3:N:1072:ILE:HG23	2.42	0.54
3:N:1063:GLU:CD	3:N:1064:GLY:H	2.15	0.54
1:B:153:ALA:HA	1:B:156:HIS:NE2	2.21	0.54
2:C:165:LEU:HB2	2:C:265:ARG:HH12	1.69	0.54
2:C:437:ARG:HG2	2:C:467:ILE:O	2.07	0.54
2:C:606:VAL:CG2	2:C:645:VAL:HG22	2.36	0.54
2:C:1036:GLU:OE1	2:C:1036:GLU:N	2.41	0.54
2:C:1041:GLU:OE1	3:D:1462:LEU:HB3	2.08	0.54
3:D:160:GLU:O	3:D:165:LYS:N	2.41	0.54
3:D:181:ASP:HA	3:D:205:TYR:HB3	1.88	0.54
3:D:398:ALA:CB	3:D:447:VAL:HA	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:441:ARG:HD2	3:D:445:ARG:HH22	1.72	0.54
3:D:584:ASN:OD1	3:D:590:PRO:HG2	2.08	0.54
3:D:866:VAL:HG11	3:D:880:ILE:CD1	2.38	0.54
1:F:18:ARG:HH11	1:F:123:MET:CE	2.20	0.54
2:H:218:VAL:CG1	2:H:222:MET:HG3	2.37	0.54
2:H:512:ARG:HG2	2:H:523:ILE:HD11	1.89	0.54
3:I:997:THR:HG21	7:Y:61:ARG:HH22	1.70	0.54
3:I:1209:LEU:O	3:I:1210:SER:C	2.48	0.54
2:M:571:LEU:HD11	2:M:701:THR:H	1.70	0.54
2:M:689:VAL:HG11	2:M:853:LEU:HD22	1.89	0.54
2:M:1031:ARG:NH2	3:N:621:LYS:HZ1	2.06	0.54
3:N:205:TYR:HD1	3:N:390:PRO:CG	2.20	0.54
3:N:700:VAL:HG22	3:N:718:PRO:HG3	1.89	0.54
3:N:1118:ILE:HD11	3:N:1193:THR:HG23	1.88	0.54
3:N:1166:LEU:HD23	3:N:1166:LEU:N	2.21	0.54
3:N:1434:TRP:CE3	3:N:1455:LYS:HB3	2.42	0.54
7:X:62:ILE:CG2	7:X:63:ASP:N	2.71	0.54
1:B:80:LEU:HG	3:D:844:ALA:CA	2.37	0.54
1:B:165:ILE:HD13	1:B:165:ILE:H	1.70	0.54
1:B:197:LEU:HD21	1:B:199:ILE:HD11	1.88	0.54
2:C:292:ARG:HD2	2:C:299:LYS:NZ	2.22	0.54
2:C:547:ILE:N	2:C:547:ILE:HD12	2.23	0.54
2:C:604:ALA:HB3	2:C:612:VAL:O	2.07	0.54
2:C:890:LEU:HD21	2:C:901:TYR:CD1	2.43	0.54
3:D:116:LEU:HD13	3:D:118:LEU:HD12	1.89	0.54
3:D:660:LYS:HA	3:D:660:LYS:NZ	2.22	0.54
1:G:165:ILE:N	1:G:165:ILE:CD1	2.66	0.54
2:H:279:GLU:HG3	2:H:280:LYS:N	2.21	0.54
2:H:367:LEU:HD12	2:H:367:LEU:O	2.07	0.54
2:H:1112:PHE:HB3	3:I:88:TYR:CD1	2.42	0.54
3:I:185:VAL:HG13	3:I:189:GLN:NE2	2.22	0.54
3:I:1053:PHE:CE1	3:I:1072:ILE:HG23	2.42	0.54
3:I:1109:GLU:HG3	3:I:1217:ILE:CD1	2.36	0.54
1:L:190:THR:OG1	3:N:722:GLU:OE1	2.25	0.54
2:M:188:LYS:HA	2:M:188:LYS:HZ2	1.73	0.54
2:M:230:ARG:HG2	2:M:230:ARG:HH11	1.72	0.54
2:M:668:LEU:N	2:M:668:LEU:CD1	2.66	0.54
2:M:701:THR:HA	2:M:831:ARG:O	2.08	0.54
3:N:119:SER:O	3:N:121:THR:N	2.40	0.54
3:N:367:ILE:HG22	3:N:368:VAL:HG23	1.90	0.54
3:N:1053:PHE:CZ	3:N:1072:ILE:HD12	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1221:VAL:CG1	3:N:1370:ILE:HD13	2.37	0.54
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.89	0.54
1:B:86:VAL:O	1:B:86:VAL:HG13	2.07	0.54
2:C:224:GLU:O	2:C:228:ALA:HB3	2.08	0.54
2:C:512:ARG:HG2	2:C:523:ILE:HD11	1.90	0.54
2:C:1095:LEU:HD11	2:C:1097:LEU:HD23	1.88	0.54
3:D:789:LEU:CD1	3:D:911:LEU:HD21	2.37	0.54
3:D:1053:PHE:CE1	3:D:1072:ILE:HG23	2.43	0.54
1:F:58:ILE:HG21	1:F:68:ILE:HD11	1.89	0.54
1:F:67:THR:CG2	2:H:627:ARG:NH2	2.71	0.54
2:H:258:TYR:CZ	2:H:290:LEU:HD21	2.42	0.54
2:H:654:LEU:HD23	2:H:654:LEU:N	2.17	0.54
2:H:1056:LYS:HD3	3:I:623:VAL:HG13	1.87	0.54
3:I:160:GLU:CA	3:I:165:LYS:HB2	2.36	0.54
3:I:510:GLU:HB2	3:I:511:TRP:CZ3	2.43	0.54
3:I:875:THR:CG2	3:I:879:ARG:HB2	2.37	0.54
3:I:1047:LYS:HZ1	3:I:1053:PHE:HA	1.70	0.54
2:M:1038:TRP:O	2:M:1039:ALA:C	2.50	0.54
3:N:186:VAL:HG12	3:N:187:LYS:H	1.71	0.54
3:N:1029:ARG:HH11	3:N:1029:ARG:CA	2.19	0.54
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.20	0.54
3:N:1168:MET:HA	3:N:1168:MET:HE3	1.89	0.54
4:O:10:PHE:CE2	4:O:19:LEU:HD23	2.42	0.54
5:R:20:DG:H22	6:S:11:C:N4	2.03	0.54
2:C:175:GLU:O	2:C:183:SER:HB3	2.06	0.54
2:C:368:THR:HB	2:C:369:PRO:CD	2.38	0.54
2:C:555:ALA:HA	3:D:1070:TYR:OH	2.06	0.54
2:C:683:ASN:HB2	2:C:872:ASN:HB2	1.89	0.54
2:C:1081:VAL:HG13	2:C:1085:PHE:CB	2.38	0.54
3:D:434:ARG:HB3	3:D:447:VAL:CG2	2.38	0.54
3:D:481:MET:CE	3:D:496:LEU:HD23	2.38	0.54
3:D:1026:SER:C	3:D:1028:ALA:H	2.15	0.54
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.38	0.54
2:H:63:GLY:HA3	2:H:103:LYS:CE	2.37	0.54
2:H:91:GLN:HA	2:H:119:PRO:HA	1.90	0.54
2:H:185:LYS:HG2	2:H:190:LYS:HA	1.90	0.54
2:H:431:HIS:H	2:H:434:HIS:CE1	2.25	0.54
2:H:545:ASN:HA	2:H:905:ILE:HD11	1.90	0.54
3:I:699:VAL:HG22	3:I:756:GLN:OE1	2.06	0.54
3:I:1221:VAL:CG1	3:I:1370:ILE:HD13	2.38	0.54
3:I:1283:ILE:HG22	3:I:1284:GLU:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:J:6:ILE:O	4:J:9:LEU:HB2	2.07	0.54
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.89	0.54
3:N:141:ILE:HD13	3:N:141:ILE:C	2.32	0.54
3:N:702:LEU:O	3:N:713:ILE:HA	2.07	0.54
3:N:766:ALA:HB1	4:O:2:ALA:HB2	1.89	0.54
3:N:1216:SER:CB	4:O:16:LYS:H	2.21	0.54
2:C:317:VAL:C	2:C:319:GLY:N	2.62	0.54
2:C:431:HIS:H	2:C:434:HIS:CE1	2.25	0.54
2:C:456:ALA:HB3	2:C:459:ALA:HB2	1.89	0.54
2:C:524:VAL:CG1	2:C:525:SER:N	2.69	0.54
2:C:863:ASP:CG	2:C:865:THR:HG22	2.33	0.54
3:D:52:PRO:N	3:D:86:ARG:CD	2.71	0.54
3:D:470:LEU:HD12	3:D:503:LEU:CD2	2.37	0.54
3:D:1326:THR:CG2	3:D:1327:ARG:H	2.18	0.54
3:D:1481:VAL:CG1	4:E:18:ARG:HA	2.21	0.54
4:E:47:LYS:HA	4:E:54:LEU:CB	2.38	0.54
2:H:571:LEU:HD11	2:H:700:TYR:C	2.32	0.54
2:H:890:LEU:HD21	2:H:901:TYR:CD1	2.43	0.54
2:H:897:LEU:HB3	2:H:899:GLN:NE2	2.20	0.54
3:I:101:HIS:ND1	3:I:103:TRP:HB2	2.17	0.54
3:I:122:GLU:O	3:I:126:VAL:HG23	2.08	0.54
3:I:540:LEU:H	3:I:540:LEU:HD12	1.73	0.54
3:I:541:ASN:O	3:I:545:ARG:HG3	2.08	0.54
3:I:809:PRO:O	3:I:812:ALA:HB3	2.07	0.54
3:I:1053:PHE:CZ	3:I:1072:ILE:HD12	2.42	0.54
3:I:1326:THR:CG2	3:I:1327:ARG:H	2.18	0.54
1:K:56:VAL:CG1	1:K:142:VAL:HG12	2.27	0.54
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.43	0.54
2:M:585:GLU:C	2:M:585:GLU:CD	2.75	0.54
2:M:958:THR:HG23	2:M:961:GLU:HG2	1.89	0.54
3:N:179:VAL:CG1	3:N:183:GLU:HB3	2.37	0.54
3:N:787:LEU:HD21	3:N:947:ILE:HD13	1.90	0.54
3:N:1358:ALA:O	7:Z:55:LYS:NZ	2.40	0.54
2:C:338:GLU:C	2:C:341:THR:HG22	2.32	0.54
3:D:87:ARG:O	3:D:524:LEU:HD11	2.07	0.54
3:D:700:VAL:HG22	3:D:718:PRO:HG3	1.89	0.54
3:D:1352:ILE:O	3:D:1355:VAL:HG23	2.08	0.54
4:E:61:VAL:HG23	4:E:62:THR:N	2.22	0.54
2:H:332:ARG:HH12	2:H:338:GLU:CD	2.15	0.54
2:H:810:ASP:HB3	2:H:813:VAL:HG12	1.89	0.54
2:H:957:LYS:O	2:H:962:GLN:NE2	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1015:LEU:N	2:H:1015:LEU:CD1	2.71	0.54
3:I:138:LYS:HD3	3:I:138:LYS:N	2.19	0.54
3:I:796:ARG:NH2	3:I:859:ASP:OD1	2.41	0.54
3:I:866:VAL:HG11	3:I:880:ILE:CD1	2.38	0.54
3:I:1205:TYR:CZ	3:I:1366:LYS:HD3	2.42	0.54
3:I:1380:GLU:HB2	3:I:1420:LEU:HD11	1.89	0.54
4:J:25:LYS:HA	4:J:28:GLN:CG	2.36	0.54
1:L:132:LEU:HD23	1:L:136:GLY:O	2.08	0.54
1:L:197:LEU:HD21	1:L:199:ILE:HD11	1.88	0.54
2:M:199:VAL:HG13	2:M:235:LEU:HD12	1.88	0.54
2:M:443:THR:HG21	3:N:1078:ARG:NE	2.23	0.54
2:M:523:ILE:C	2:M:523:ILE:HD13	2.32	0.54
2:M:603:VAL:HG22	2:M:613:VAL:HG12	1.90	0.54
2:M:625:LEU:HB3	2:M:639:GLN:HB2	1.90	0.54
2:M:863:ASP:CG	2:M:865:THR:HG22	2.33	0.54
2:M:1083:GLU:CD	2:M:1086:ARG:HD2	2.31	0.54
3:N:789:LEU:CD1	3:N:911:LEU:HD21	2.37	0.54
7:Y:115:THR:HB	7:Y:116:PRO:HD3	1.90	0.54
1:B:16:GLN:HA	1:B:16:GLN:HE21	1.73	0.54
2:C:81:ASP:N	2:C:84:ARG:NH1	2.56	0.54
2:C:218:VAL:C	2:C:220:GLY:N	2.64	0.54
2:C:878:SER:OG	3:D:1029:ARG:CZ	2.56	0.54
3:D:176:ASP:HB3	3:D:389:GLU:CG	2.26	0.54
3:D:376:GLU:O	3:D:378:ILE:HG13	2.07	0.54
3:D:590:PRO:O	3:D:600:LEU:HD12	2.08	0.54
3:D:1095:THR:HG23	3:D:1230:GLY:HA3	1.90	0.54
3:D:1122:LEU:HD12	3:D:1122:LEU:N	2.23	0.54
3:D:1161:GLU:HG2	3:D:1164:ARG:HB2	1.90	0.54
3:D:1205:TYR:CE2	3:D:1366:LYS:HD3	2.42	0.54
3:D:1437:ALA:HB3	3:D:1446:VAL:CG1	2.38	0.54
1:G:38:ASN:O	1:G:42:ARG:HG3	2.08	0.54
2:H:140:ILE:O	2:H:140:ILE:HD12	2.07	0.54
2:H:148:PHE:CZ	2:H:309:TYR:HB3	2.42	0.54
2:H:806:LEU:HD13	2:H:813:VAL:HG21	1.89	0.54
2:H:879:ARG:CZ	7:Y:42:ASP:CG	2.81	0.54
2:H:958:THR:HG23	2:H:961:GLU:HG2	1.89	0.54
2:H:1071:ILE:HG23	3:I:670:VAL:HG11	1.89	0.54
2:H:1099:VAL:HG22	3:I:10:ILE:HG13	1.90	0.54
3:I:99:ALA:O	3:I:514:LEU:HB2	2.08	0.54
3:I:111:LYS:CD	3:I:1448:THR:HG22	2.38	0.54
3:I:119:SER:H	3:I:123:LEU:CD2	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:137:PRO:HB2	3:I:138:LYS:HD3	1.89	0.54
3:I:179:VAL:HG21	3:I:189:GLN:NE2	2.23	0.54
3:I:584:ASN:CG	3:I:590:PRO:HD2	2.33	0.54
3:I:700:VAL:HG22	3:I:718:PRO:HG3	1.88	0.54
3:I:1112:CYS:O	3:I:1112:CYS:SG	2.65	0.54
1:L:55:SER:OG	1:L:158:ILE:HB	2.07	0.54
2:M:28:ARG:HG2	2:M:42:VAL:HG21	1.90	0.54
2:M:109:LYS:HZ2	2:M:367:LEU:C	2.13	0.54
2:M:188:LYS:O	2:M:189:ARG:NE	2.26	0.54
2:M:398:THR:O	2:M:570:PRO:HD3	2.08	0.54
2:M:722:ILE:HD13	2:M:722:ILE:C	2.32	0.54
2:M:897:LEU:HB3	2:M:899:GLN:NE2	2.21	0.54
2:M:1101:THR:C	2:M:1102:LEU:HD12	2.33	0.54
3:N:132:TYR:HD1	3:N:132:TYR:H	1.54	0.54
3:N:157:GLU:OE2	3:N:157:GLU:N	2.40	0.54
3:N:481:MET:CE	3:N:496:LEU:HD23	2.38	0.54
3:N:813:LEU:HD12	3:N:814:ALA:CA	2.38	0.54
3:N:1114:THR:HG23	3:N:1114:THR:O	2.08	0.54
2:C:74:GLY:O	2:C:76:PRO:HD3	2.08	0.54
2:C:997:LEU:O	2:C:999:HIS:N	2.41	0.54
2:C:1017:THR:O	2:C:1018:GLN:HB2	2.07	0.54
2:C:1035:MET:HE1	5:P:15:DC:H4'	1.90	0.54
2:C:1044:GLY:HA2	3:D:1475:GLY:HA3	1.89	0.54
3:D:875:THR:CG2	3:D:879:ARG:HB2	2.37	0.54
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.73	0.54
1:G:16:GLN:HA	1:G:16:GLN:HE21	1.73	0.54
1:G:190:THR:OG1	3:I:722:GLU:OE1	2.26	0.54
2:H:6:PHE:N	2:H:6:PHE:CD1	2.75	0.54
2:H:516:ARG:NE	3:I:1068:LEU:HD13	2.22	0.54
2:H:523:ILE:HG23	2:H:523:ILE:O	2.07	0.54
2:H:1101:THR:C	2:H:1102:LEU:HD12	2.33	0.54
3:I:133:ILE:HG22	3:I:134:VAL:H	1.72	0.54
3:I:141:ILE:HG22	3:I:162:ARG:NH1	2.23	0.54
3:I:1063:GLU:CD	3:I:1064:GLY:H	2.16	0.54
3:I:1352:ILE:O	3:I:1355:VAL:HG23	2.08	0.54
1:K:107:LYS:NZ	1:K:113:ASP:OD2	2.37	0.54
1:L:58:ILE:N	1:L:58:ILE:CD1	2.68	0.54
2:M:39:ARG:NE	2:M:45:GLN:HE21	1.88	0.54
2:M:274:ARG:HG3	2:M:285:LEU:HB3	1.89	0.54
2:M:340:MET:C	2:M:340:MET:SD	2.91	0.54
2:M:523:ILE:HG23	2:M:523:ILE:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:586:ARG:NH1	2:M:590:ASP:OD2	2.41	0.54
2:M:697:ARG:O	2:M:698:ASP:HB2	2.08	0.54
3:N:356:PRO:HG2	3:N:359:ALA:CB	2.33	0.54
3:N:407:VAL:HA	3:N:422:ALA:CB	2.37	0.54
3:N:996:TRP:CD1	3:N:1056:PRO:HG2	2.40	0.54
7:Y:102:VAL:HG21	7:Y:125:MET:CE	2.22	0.54
2:C:185:LYS:HD2	2:C:190:LYS:HE2	1.90	0.54
3:D:207:PHE:CE2	2:H:284:ARG:HB2	2.42	0.54
3:D:348:GLN:HB2	3:D:351:MET:SD	2.48	0.54
3:D:562:ALA:O	2:H:223:ASP:O	2.25	0.54
3:D:1221:VAL:CG1	3:D:1370:ILE:HD13	2.38	0.54
3:D:1326:THR:CG2	3:D:1327:ARG:N	2.71	0.54
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.89	0.54
1:G:23:PHE:O	1:G:196:THR:HA	2.08	0.54
2:H:897:LEU:HD22	2:H:920:GLN:HG2	1.88	0.54
3:I:788:GLY:O	3:I:792:ILE:HG22	2.09	0.54
3:I:835:SER:H	3:I:838:ARG:CD	2.21	0.54
3:I:1098:LEU:CD2	3:I:1229:ILE:HB	2.37	0.54
2:M:16:PRO:O	2:M:18:LEU:HD12	2.07	0.54
2:M:140:ILE:CG2	2:M:333:ILE:HG13	2.38	0.54
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.90	0.54
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.38	0.54
2:M:588:VAL:CG1	2:M:661:SER:HB3	2.39	0.54
2:M:676:ILE:HG23	2:M:988:VAL:HG13	1.84	0.54
2:M:957:LYS:O	2:M:962:GLN:NE2	2.26	0.54
3:N:185:VAL:CG1	3:N:186:VAL:N	2.71	0.54
3:N:866:VAL:HG11	3:N:880:ILE:CD1	2.38	0.54
7:Y:89:VAL:HG12	7:Y:90:GLU:N	2.23	0.54
1:A:124:ASN:ND2	1:A:127:LEU:HD22	2.22	0.53
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.43	0.53
2:C:158:TYR:CD1	2:C:158:TYR:N	2.70	0.53
2:C:182:VAL:CB	2:C:193:LEU:HB3	2.38	0.53
2:C:487:THR:HB	2:C:490:GLU:HG3	1.89	0.53
2:C:897:LEU:HD22	2:C:920:GLN:HG2	1.88	0.53
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.71	0.53
3:D:788:GLY:O	3:D:792:ILE:HG22	2.08	0.53
1:G:185:ARG:CD	3:I:692:GLU:CG	2.85	0.53
2:H:678:PRO:O	3:I:943:THR:HA	2.07	0.53
2:H:830:LYS:HD2	2:H:832:LYS:HE3	1.89	0.53
2:H:1092:LEU:CD1	2:H:1099:VAL:HG21	2.14	0.53
3:I:177:ALA:H	3:I:390:PRO:CD	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:396:VAL:HG21	3:I:445:ARG:HD3	1.89	0.53
3:I:481:MET:CE	3:I:496:LEU:HD23	2.38	0.53
3:I:1326:THR:CG2	3:I:1327:ARG:N	2.71	0.53
1:L:102:LYS:NZ	1:L:137:ARG:HH12	2.05	0.53
2:M:114:PHE:O	2:M:114:PHE:CG	2.60	0.53
2:M:678:PRO:HG3	2:M:873:PRO:HD2	1.90	0.53
2:M:757:GLY:HA2	2:M:789:SER:OG	2.08	0.53
3:N:171:LEU:CD2	3:N:172:PRO:O	2.55	0.53
3:N:882:PHE:O	3:N:886:VAL:HG23	2.07	0.53
3:N:1089:ALA:C	3:N:1091:SER:N	2.65	0.53
3:N:1108:ARG:HG2	3:N:1108:ARG:O	2.07	0.53
3:N:1352:ILE:O	3:N:1355:VAL:HG23	2.08	0.53
7:X:105:VAL:HB	7:X:109:GLU:HB3	1.90	0.53
7:Y:85:LEU:HD21	7:Y:121:ASP:CG	2.32	0.53
2:C:11:GLU:CD	2:C:537:LYS:NZ	2.66	0.53
2:C:81:ASP:N	2:C:84:ARG:HH12	2.07	0.53
2:C:473:ARG:CB	2:C:531:PHE:CE1	2.88	0.53
2:C:654:LEU:H	2:C:654:LEU:CD2	2.13	0.53
2:C:1088:LEU:CD2	2:C:1092:LEU:HD12	2.34	0.53
3:D:1120:VAL:HG23	3:D:1188:VAL:CG1	2.38	0.53
3:D:1128:VAL:O	3:D:1129:THR:HB	2.08	0.53
3:D:1361:VAL:HG23	7:X:37:MET:HE2	1.89	0.53
1:F:221:HIS:HA	1:F:224:TYR:CD2	2.43	0.53
1:G:170:VAL:CG1	3:I:848:GLU:OE2	2.49	0.53
2:H:108:ILE:HG22	2:H:109:LYS:N	2.23	0.53
2:H:165:LEU:HB3	2:H:265:ARG:NH1	2.23	0.53
2:H:863:ASP:CG	2:H:865:THR:HG22	2.33	0.53
3:I:198:ARG:HG3	3:I:198:ARG:NH1	2.23	0.53
3:I:766:ALA:HB1	4:J:2:ALA:HB2	1.90	0.53
1:K:104:GLU:OE1	1:K:137:ARG:HG2	2.09	0.53
2:M:97:ARG:N	2:M:97:ARG:CD	2.71	0.53
2:M:1070:ILE:CG2	3:N:656:PHE:CD1	2.91	0.53
3:N:501:ALA:HB1	3:N:1453:ALA:HB2	1.90	0.53
7:Y:84:GLY:HA2	7:Y:130:LEU:HD11	1.89	0.53
2:C:279:GLU:HG3	2:C:280:LYS:N	2.22	0.53
2:C:328:LEU:HD22	2:C:433:THR:O	2.08	0.53
2:C:725:ASP:O	2:C:727:PRO:HD3	2.08	0.53
2:C:1047:HIS:HA	2:C:1050:GLN:HB3	1.90	0.53
2:C:1075:ASP:OD1	4:E:31:LEU:HD11	2.07	0.53
3:D:608:SER:HA	3:D:1443:THR:HG21	1.90	0.53
1:F:86:VAL:HG13	1:F:86:VAL:O	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:104:GLU:OE1	1:F:137:ARG:HG2	2.09	0.53
1:G:58:ILE:HD12	1:G:58:ILE:N	2.23	0.53
2:H:18:LEU:HD12	2:H:18:LEU:N	2.20	0.53
2:H:122:THR:HG22	2:H:123:GLU:N	2.23	0.53
2:H:261:ILE:HD12	2:H:262:ALA:H	1.70	0.53
2:H:360:LEU:HD23	2:H:360:LEU:N	2.23	0.53
2:H:368:THR:HG22	2:H:369:PRO:CD	2.39	0.53
2:H:516:ARG:CZ	3:I:1068:LEU:HD22	2.38	0.53
2:H:1096:ALA:HB1	3:I:12:LEU:HD22	1.90	0.53
3:I:9:ARG:HG3	3:I:1456:LYS:HG2	1.90	0.53
3:I:86:ARG:O	3:I:87:ARG:NE	2.40	0.53
3:I:182:GLY:HA3	3:I:441:ARG:HD3	1.89	0.53
3:I:521:PRO:HB2	3:I:524:LEU:CD1	2.38	0.53
3:I:813:LEU:HD12	3:I:814:ALA:CA	2.38	0.53
3:I:1209:LEU:HD23	3:I:1210:SER:N	2.24	0.53
3:I:1264:GLU:CD	3:I:1424:VAL:HG13	2.31	0.53
3:I:1280:VAL:O	3:I:1294:VAL:HA	2.08	0.53
3:I:1295:GLU:CB	3:I:1300:SER:HB3	2.37	0.53
2:M:36:PRO:O	2:M:39:ARG:CB	2.56	0.53
2:M:249:LYS:O	2:M:251:ASP:N	2.41	0.53
2:M:437:ARG:HG2	2:M:467:ILE:O	2.06	0.53
2:M:572:ILE:HD11	2:M:698:ASP:O	2.08	0.53
2:M:1086:ARG:NH1	3:N:88:TYR:CG	2.76	0.53
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.89	0.53
3:N:129:PHE:N	3:N:129:PHE:CD1	2.77	0.53
3:N:171:LEU:HD23	3:N:171:LEU:C	2.34	0.53
3:N:205:TYR:CD2	3:N:205:TYR:C	2.86	0.53
3:N:520:LEU:HD12	3:N:521:PRO:CD	2.31	0.53
3:N:660:LYS:HA	3:N:660:LYS:NZ	2.22	0.53
3:N:788:GLY:O	3:N:792:ILE:HG22	2.09	0.53
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.24	0.53
7:Y:57:ARG:O	7:Y:61:ARG:HD3	2.08	0.53
2:C:22:GLN:HB3	2:C:121:MET:HE2	1.89	0.53
2:C:338:GLU:CA	2:C:341:THR:HG22	2.39	0.53
3:D:36:THR:C	3:D:38:LYS:N	2.59	0.53
3:D:804:LEU:CB	3:D:830:ALA:O	2.56	0.53
3:D:1008:PHE:HE2	3:D:1035:ILE:HG21	1.74	0.53
3:D:1380:GLU:HB2	3:D:1420:LEU:HD11	1.89	0.53
4:E:47:LYS:C	4:E:54:LEU:HD12	2.32	0.53
2:H:52:PHE:CE1	2:H:67:ASP:C	2.86	0.53
2:H:300:ASP:OD2	2:H:303:PHE:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:571:LEU:HD11	2:H:700:TYR:CA	2.37	0.53
2:H:834:GLN:HE22	3:I:724:GLN:CG	2.14	0.53
3:I:1105:ILE:N	3:I:1105:ILE:HD12	2.22	0.53
4:J:40:LEU:HD12	4:J:40:LEU:C	2.34	0.53
1:K:8:ALA:O	1:K:9:PRO:C	2.52	0.53
2:M:122:THR:HG22	2:M:123:GLU:N	2.23	0.53
2:M:328:LEU:C	2:M:330:ASN:N	2.65	0.53
2:M:333:ILE:CD1	2:M:467:ILE:HG13	2.38	0.53
2:M:577:PRO:HG3	2:M:993:PHE:CD1	2.43	0.53
2:M:870:ILE:HD13	2:M:870:ILE:N	2.24	0.53
2:M:1081:VAL:HG13	2:M:1085:PHE:CB	2.38	0.53
3:N:543:LEU:CD2	3:N:580:ALA:HB1	2.37	0.53
4:O:30:LEU:O	4:O:35:PHE:HA	2.08	0.53
1:A:32:PHE:HZ	1:B:47:SER:HB2	1.73	0.53
1:B:38:ASN:CB	1:B:39:PRO:HD3	2.37	0.53
2:C:292:ARG:CB	2:C:299:LYS:HE2	2.37	0.53
2:C:378:LEU:O	2:C:381:ALA:HB3	2.08	0.53
2:C:685:GLU:CD	7:X:41:ASP:OD1	2.51	0.53
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.33	0.53
3:D:1063:GLU:CD	3:D:1064:GLY:H	2.15	0.53
1:G:42:ARG:CG	1:G:42:ARG:NH1	2.68	0.53
3:I:87:ARG:HA	3:I:87:ARG:HH11	1.73	0.53
3:I:547:LEU:HD11	3:I:578:VAL:CG2	2.38	0.53
3:I:606:ILE:HD11	3:I:613:ARG:NE	2.22	0.53
1:L:16:GLN:HA	1:L:16:GLN:HE21	1.73	0.53
2:M:278:GLU:HA	2:M:283:ILE:O	2.08	0.53
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.89	0.53
3:N:135:LEU:HD23	3:N:136:ASP:N	2.24	0.53
3:N:199:LEU:HD23	3:N:200:ASP:O	2.08	0.53
3:N:432:TYR:HB3	3:N:450:TYR:CG	2.43	0.53
3:N:996:TRP:HE3	3:N:999:THR:HG21	1.70	0.53
3:N:1007:VAL:HG11	3:N:1039:CYS:CB	2.36	0.53
3:N:1111:ASP:CG	3:N:1203:LYS:HD2	2.33	0.53
5:P:20:DG:C2	5:P:21:DC:N4	2.77	0.53
7:X:90:GLU:O	7:X:152:VAL:HB	2.08	0.53
1:B:23:PHE:O	1:B:196:THR:HA	2.09	0.53
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.90	0.53
2:C:269:LEU:HG	2:C:287:GLY:O	2.09	0.53
2:C:455:LEU:HD12	2:C:456:ALA:O	2.09	0.53
2:C:603:VAL:HG23	2:C:647:GLN:O	2.09	0.53
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:810:ASP:HB3	2:C:813:VAL:HG12	1.90	0.53
3:D:664:LYS:O	3:D:666:ILE:N	2.42	0.53
3:D:813:LEU:HD12	3:D:814:ALA:CA	2.38	0.53
3:D:1018:ASN:O	3:D:1022:VAL:HG23	2.08	0.53
3:D:1066:THR:HG23	3:D:1069:GLU:H	1.74	0.53
3:D:1144:LEU:HD21	3:D:1186:VAL:HG11	1.90	0.53
3:D:1146:GLY:CA	3:D:1207:TYR:HB3	2.36	0.53
3:D:1208:ASP:O	3:D:1215:VAL:CG2	2.57	0.53
2:H:99:GLN:HE21	2:H:101:ILE:CD1	2.16	0.53
2:H:212:GLY:O	2:H:214:TYR:N	2.42	0.53
2:H:722:ILE:O	2:H:722:ILE:HD13	2.08	0.53
2:H:870:ILE:HD13	2:H:870:ILE:N	2.24	0.53
2:H:997:LEU:O	2:H:999:HIS:N	2.40	0.53
3:I:143:ASN:OD1	3:I:161:LEU:HD21	2.08	0.53
3:I:407:VAL:CG2	3:I:408:GLU:H	2.11	0.53
3:I:789:LEU:CD1	3:I:934:LEU:HD22	2.39	0.53
3:I:996:TRP:HE3	3:I:999:THR:HG21	1.70	0.53
1:K:86:VAL:O	1:K:86:VAL:HG13	2.07	0.53
1:L:16:GLN:HA	1:L:16:GLN:NE2	2.24	0.53
2:M:128:ILE:C	2:M:129:ILE:HD12	2.32	0.53
2:M:302:VAL:C	2:M:305:PRO:HD2	2.33	0.53
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.91	0.53
2:M:611:ILE:CD1	2:M:625:LEU:HD21	2.38	0.53
2:M:754:ILE:N	2:M:754:ILE:CD1	2.71	0.53
2:M:890:LEU:HD21	2:M:901:TYR:CD1	2.43	0.53
2:M:997:LEU:C	2:M:999:HIS:N	2.64	0.53
3:N:14:SER:O	3:N:18:ILE:HG12	2.09	0.53
3:N:1209:LEU:O	3:N:1210:SER:C	2.48	0.53
7:X:39:SER:OG	7:X:40:SER:N	2.40	0.53
2:C:284:ARG:HG2	2:C:285:LEU:N	2.22	0.53
2:C:546:LEU:C	2:C:581:THR:HG21	2.34	0.53
2:C:717:LEU:HD13	2:C:761:PHE:CD2	2.44	0.53
3:D:124:GLU:CD	3:D:128:TYR:HE1	2.17	0.53
3:D:706:PRO:CG	6:Q:16:G:N2	2.72	0.53
2:H:95:TYR:HD2	2:H:114:PHE:HB3	1.74	0.53
2:H:325:ILE:H	2:H:325:ILE:HD12	1.74	0.53
2:H:401:LEU:HD13	2:H:587:VAL:HG11	1.91	0.53
2:H:523:ILE:C	2:H:523:ILE:HD13	2.32	0.53
2:H:592:LEU:N	2:H:592:LEU:HD23	2.23	0.53
2:H:850:ALA:HA	3:I:632:VAL:HG13	1.90	0.53
2:H:975:TYR:HA	2:H:982:PRO:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:39:PRO:CB	3:I:45:PHE:HB2	2.38	0.53
3:I:457:GLY:O	3:I:460:ALA:N	2.39	0.53
3:I:704:ARG:HB2	3:I:736:PHE:HB3	1.91	0.53
3:I:1161:GLU:CD	3:I:1164:ARG:HB2	2.34	0.53
3:I:1283:ILE:HG22	3:I:1284:GLU:H	1.74	0.53
1:L:141:GLU:OE2	1:L:161:ARG:HD3	2.09	0.53
2:M:139:GLN:HE22	2:M:415:PRO:HD3	1.74	0.53
2:M:304:LEU:HG	2:M:305:PRO:CD	2.38	0.53
2:M:836:GLY:CA	2:M:1001:VAL:HG21	2.31	0.53
2:M:893:ALA:HB2	2:M:918:LEU:HD12	1.90	0.53
2:M:1061:GLU:OE1	3:N:84:ILE:CD1	2.56	0.53
3:N:115:LEU:CD1	3:N:502:PHE:CE1	2.92	0.53
3:N:835:SER:H	3:N:838:ARG:CD	2.21	0.53
3:N:1465:ASN:HD21	3:N:1470:ARG:CZ	2.21	0.53
7:X:120:SER:HB2	7:X:123:SER:HB2	1.91	0.53
7:Y:57:ARG:HH21	7:Y:57:ARG:CB	2.21	0.53
1:B:73:GLU:CD	1:B:130:ALA:HA	2.33	0.53
2:C:140:ILE:HG23	2:C:410:ILE:HG21	1.90	0.53
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.33	0.53
2:C:839:LEU:N	2:C:839:LEU:HD23	2.24	0.53
3:D:789:LEU:CD1	3:D:934:LEU:HD22	2.39	0.53
3:D:1101:VAL:CG2	3:D:1424:VAL:HG23	2.38	0.53
3:D:1235:GLN:HB3	7:X:52:LYS:NZ	2.23	0.53
3:D:1286:THR:CG2	3:D:1287:GLU:H	2.17	0.53
1:F:25:LEU:CD2	1:F:28:LEU:HD11	2.38	0.53
2:H:338:GLU:C	2:H:341:THR:HG22	2.33	0.53
2:H:1014:SER:CB	2:H:1021:LEU:HD13	2.32	0.53
3:I:794:GLN:CG	3:I:1017:PHE:HE2	2.21	0.53
3:I:1275:SER:HB2	3:I:1294:VAL:HG21	1.90	0.53
1:L:79:ILE:HG13	1:L:80:LEU:N	2.23	0.53
1:L:102:LYS:HZ1	1:L:137:ARG:NH1	2.07	0.53
1:L:115:LEU:HD12	1:L:115:LEU:C	2.34	0.53
2:M:6:PHE:CD1	2:M:6:PHE:N	2.76	0.53
2:M:189:ARG:HA	2:M:189:ARG:HE	1.72	0.53
2:M:197:LEU:HD12	2:M:207:LEU:HD11	1.91	0.53
2:M:206:THR:HG23	2:M:207:LEU:H	1.74	0.53
2:M:274:ARG:CB	2:M:285:LEU:HD13	2.35	0.53
2:M:682:TYR:CE1	2:M:851:LYS:HD3	2.44	0.53
3:N:50:PHE:CD1	3:N:522:PRO:HG3	2.41	0.53
3:N:102:ILE:CD1	3:N:586:ARG:HG3	2.39	0.53
3:N:638:LYS:HD3	3:N:932:ASP:CG	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:799:LYS:O	3:N:826:PRO:HG2	2.09	0.53
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.08	0.53
3:N:1487:VAL:CG1	3:N:1488:ASP:N	2.71	0.53
4:O:15:SER:O	4:O:18:ARG:HB3	2.09	0.53
4:O:18:ARG:O	4:O:22:VAL:HG23	2.09	0.53
7:Y:74:ILE:HD12	7:Y:75:LEU:N	2.22	0.53
7:Z:120:SER:O	7:Z:123:SER:HB2	2.09	0.53
1:A:46:SER:HB3	2:C:856:GLU:HG2	1.89	0.53
1:A:91:ASN:HD22	1:A:93:SER:HB2	1.74	0.53
1:B:65:PHE:N	1:B:65:PHE:CD1	2.77	0.53
2:C:170:PRO:HD3	2:C:263:ASP:OD1	2.08	0.53
2:C:328:LEU:HD13	2:C:433:THR:HB	1.90	0.53
2:C:668:LEU:N	2:C:668:LEU:CD1	2.66	0.53
2:C:870:ILE:HD13	2:C:870:ILE:N	2.24	0.53
2:C:1046:ALA:CB	3:D:1476:THR:HB	2.39	0.53
3:D:1098:LEU:HD23	3:D:1229:ILE:HB	1.90	0.53
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.44	0.53
3:D:1487:VAL:HG12	3:D:1488:ASP:H	1.74	0.53
3:D:1491:THR:O	3:D:1494:ALA:HB3	2.09	0.53
1:G:76:VAL:HB	3:I:872:ARG:CZ	2.36	0.53
2:H:455:LEU:HD12	2:H:456:ALA:O	2.09	0.53
2:H:625:LEU:HB3	2:H:639:GLN:HB2	1.90	0.53
2:H:859:PRO:HB2	2:H:867:VAL:HG21	1.91	0.53
2:H:877:PRO:HG3	3:I:1023:MET:SD	2.48	0.53
2:H:893:ALA:HB2	2:H:918:LEU:HD12	1.90	0.53
3:I:93:ILE:HD11	3:I:519:VAL:HG22	1.91	0.53
3:I:465:LEU:CD1	3:I:510:GLU:HA	2.36	0.53
3:I:520:LEU:CD1	3:I:521:PRO:HD2	2.39	0.53
3:I:701:LEU:N	3:I:701:LEU:HD12	2.24	0.53
3:I:1401:GLU:OE2	3:I:1415:VAL:HG21	2.09	0.53
3:I:1476:THR:CG2	4:J:21:VAL:HG22	2.35	0.53
2:M:17:PRO:HB2	2:M:20:GLU:HB3	1.91	0.53
2:M:211:LEU:CD2	2:M:221:LEU:CD2	2.84	0.53
2:M:374:ASN:O	2:M:377:PRO:HD2	2.09	0.53
2:M:1034:GLU:CD	3:N:1096:ARG:HH22	2.16	0.53
3:N:50:PHE:CE1	3:N:522:PRO:HG3	2.44	0.53
3:N:1438:ALA:O	3:N:1443:THR:HG22	2.09	0.53
1:A:9:PRO:HB3	1:A:25:LEU:CD1	2.38	0.53
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.22	0.53
2:C:64:LEU:HB2	2:C:359:MET:HE3	1.91	0.53
2:C:565:GLN:NE2	2:C:842:ARG:CG	2.68	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1081:VAL:HG11	2:C:1111:ILE:HG21	1.90	0.53
3:D:168:THR:HG22	3:D:170:PRO:HD3	1.91	0.53
3:D:479:GLU:O	3:D:483:HIS:ND1	2.38	0.53
3:D:696:HIS:NE2	4:E:54:LEU:HD11	2.24	0.53
3:D:787:LEU:HD12	3:D:787:LEU:O	2.09	0.53
3:D:804:LEU:HB2	3:D:831:GLY:HA2	1.90	0.53
3:D:827:ILE:O	3:D:827:ILE:HG22	2.09	0.53
3:D:835:SER:H	3:D:838:ARG:CD	2.21	0.53
3:D:1197:ARG:HB3	3:D:1396:GLU:OE2	2.09	0.53
3:D:1434:TRP:NE1	3:D:1435:LEU:HD12	2.24	0.53
3:D:1466:VAL:HG12	3:D:1467:ILE:HD13	1.91	0.53
4:E:48:MET:N	4:E:54:LEU:HB2	2.24	0.53
2:H:16:PRO:O	2:H:18:LEU:HD12	2.09	0.53
3:I:192:ALA:HB1	3:I:193:PRO:HD2	1.91	0.53
3:I:639:LEU:N	3:I:729:HIS:CD2	2.77	0.53
3:I:980:MET:HB3	3:I:982:PHE:HE2	1.72	0.53
3:I:1031:ASN:OD1	3:I:1034:GLN:HG3	2.08	0.53
3:I:1087:ARG:HB2	3:I:1237:THR:CG2	2.39	0.53
3:I:1225:ALA:HB2	3:I:1370:ILE:HD12	1.91	0.53
3:I:1312:LEU:HD11	3:I:1327:ARG:HH21	1.67	0.53
1:L:88:ARG:HD2	1:L:123:MET:CE	2.38	0.53
2:M:64:LEU:HB2	2:M:359:MET:HG3	1.91	0.53
2:M:139:GLN:HG3	2:M:411:SER:O	2.08	0.53
2:M:157:ARG:HD3	2:M:314:THR:HG1	1.69	0.53
2:M:455:LEU:HD12	2:M:456:ALA:O	2.09	0.53
2:M:512:ARG:HG2	2:M:523:ILE:HD11	1.89	0.53
2:M:606:VAL:CG2	2:M:645:VAL:HG22	2.39	0.53
2:M:1052:MET:SD	3:N:623:VAL:HG21	2.49	0.53
2:M:1071:ILE:O	3:N:659:LYS:HD3	2.08	0.53
3:N:32:ILE:HG12	3:N:39:PRO:HA	1.91	0.53
3:N:176:ASP:HB2	3:N:389:GLU:HG2	1.89	0.53
3:N:510:GLU:HB2	3:N:511:TRP:CZ3	2.43	0.53
3:N:767:HIS:HA	3:N:924:MET:SD	2.49	0.53
3:N:787:LEU:HD12	3:N:787:LEU:O	2.09	0.53
3:N:1033:GLN:OE1	3:N:1033:GLN:HA	2.08	0.53
3:N:1288:GLU:HA	3:N:1307:LYS:HD3	1.90	0.53
1:B:73:GLU:OE1	1:B:131:THR:N	2.43	0.52
2:C:170:PRO:HD3	2:C:263:ASP:CB	2.38	0.52
2:C:500:ASN:N	2:C:500:ASN:HD22	2.05	0.52
2:C:516:ARG:HG3	3:D:1068:LEU:HD13	1.90	0.52
2:C:523:ILE:HG23	2:C:523:ILE:O	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:879:ARG:NE	7:X:42:ASP:OD1	2.40	0.52
3:D:15:PRO:O	3:D:19:ARG:HG2	2.09	0.52
3:D:484:PRO:HB2	3:D:488:ARG:HG3	1.91	0.52
3:D:510:GLU:HB2	3:D:511:TRP:CZ3	2.43	0.52
3:D:701:LEU:N	3:D:701:LEU:HD12	2.24	0.52
4:E:31:LEU:HB3	4:E:35:PHE:CE1	2.44	0.52
1:F:18:ARG:HH22	1:F:88:ARG:NH2	2.06	0.52
1:F:91:ASN:HD22	1:F:93:SER:HB2	1.74	0.52
1:G:190:THR:N	3:I:722:GLU:OE1	2.39	0.52
2:H:92:ALA:N	2:H:118:ILE:O	2.38	0.52
2:H:516:ARG:HH11	2:H:521:PRO:HB3	1.74	0.52
2:H:579:VAL:CG1	2:H:887:GLU:HG3	2.37	0.52
2:H:1047:HIS:HA	2:H:1050:GLN:HB3	1.91	0.52
3:I:134:VAL:CG2	3:I:460:ALA:CB	2.84	0.52
3:I:1256:LEU:CG	3:I:1260:ILE:HD11	2.34	0.52
1:K:156:HIS:CD2	1:K:158:ILE:HD12	2.44	0.52
2:M:191:PHE:CZ	2:M:196:LEU:HD12	2.43	0.52
3:N:356:PRO:CB	3:N:441:ARG:HA	2.39	0.52
3:N:1084:THR:HB	3:N:1087:ARG:NH1	2.24	0.52
1:A:208:LEU:HD23	1:A:212:ASN:OD1	2.09	0.52
1:B:74:ASP:O	1:B:78:ILE:HG13	2.10	0.52
1:B:133:GLU:HG3	1:B:134:GLU:N	2.19	0.52
2:C:54:ILE:HD11	2:C:356:ARG:HG3	1.90	0.52
2:C:893:ALA:HB2	2:C:918:LEU:HD12	1.91	0.52
3:D:50:PHE:CD1	3:D:522:PRO:CG	2.92	0.52
3:D:729:HIS:CG	3:D:730:PRO:HD2	2.44	0.52
3:D:794:GLN:HG2	3:D:1017:PHE:HE2	1.73	0.52
3:D:918:ALA:HB3	3:D:927:THR:HG23	1.91	0.52
3:D:1256:LEU:O	3:D:1259:VAL:N	2.42	0.52
3:D:1484:THR:HG21	4:E:22:VAL:HG22	1.90	0.52
1:F:56:VAL:CG1	1:F:142:VAL:HG12	2.27	0.52
1:F:208:LEU:HD23	1:F:212:ASN:OD1	2.09	0.52
1:G:123:MET:C	1:G:125:PRO:HD3	2.34	0.52
2:H:352:ALA:HA	2:H:355:VAL:CG1	2.40	0.52
2:H:839:LEU:N	2:H:839:LEU:HD23	2.25	0.52
3:I:810:GLU:C	3:I:812:ALA:H	2.15	0.52
4:J:19:LEU:O	4:J:23:VAL:HG23	2.09	0.52
2:M:478:VAL:HA	2:M:506:ASN:O	2.09	0.52
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.44	0.52
3:N:141:ILE:HD13	3:N:142:LEU:CA	2.39	0.52
3:N:729:HIS:CG	3:N:730:PRO:HD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1197:ARG:HB3	3:N:1396:GLU:OE2	2.09	0.52
1:A:156:HIS:CD2	1:A:158:ILE:HD12	2.44	0.52
1:B:79:ILE:HD12	1:B:83:LYS:CE	2.39	0.52
2:C:975:TYR:HA	2:C:982:PRO:HA	1.91	0.52
3:D:162:ARG:CG	3:D:452:ILE:HG13	2.31	0.52
3:D:809:PRO:CB	3:D:812:ALA:HB2	2.25	0.52
3:D:1352:ILE:HG21	3:D:1368:ILE:HD12	1.91	0.52
4:E:19:LEU:HD12	4:E:23:VAL:HG23	1.90	0.52
1:G:112:ARG:HG3	1:G:125:PRO:HA	1.92	0.52
2:H:182:VAL:CB	2:H:193:LEU:HD22	2.38	0.52
2:H:1049:LEU:O	2:H:1053:LEU:HG	2.09	0.52
3:I:525:ARG:HD3	3:I:525:ARG:N	2.23	0.52
3:I:617:ASN:ND2	3:I:1467:ILE:O	2.42	0.52
3:I:664:LYS:O	3:I:666:ILE:N	2.42	0.52
3:I:1197:ARG:HB3	3:I:1396:GLU:OE2	2.09	0.52
3:I:1272:ALA:CA	3:I:1326:THR:HB	2.39	0.52
3:I:1442:ASN:O	3:I:1446:VAL:HG23	2.09	0.52
1:K:124:ASN:ND2	1:K:127:LEU:HD22	2.23	0.52
1:K:208:LEU:HD23	1:K:212:ASN:OD1	2.08	0.52
2:M:69:LEU:HD11	2:M:99:GLN:CD	2.34	0.52
2:M:98:LEU:N	2:M:98:LEU:CD1	2.72	0.52
2:M:113:VAL:HG11	2:M:373:VAL:HB	1.91	0.52
2:M:398:THR:HG21	2:M:998:TYR:HB2	1.91	0.52
2:M:471:TYR:CE1	2:M:496:ILE:HG12	2.44	0.52
2:M:546:LEU:C	2:M:581:THR:HG21	2.34	0.52
2:M:611:ILE:CG1	2:M:625:LEU:HD21	2.39	0.52
2:M:679:PHE:O	2:M:680:ASP:C	2.49	0.52
2:M:728:HIS:O	2:M:729:LEU:CD2	2.57	0.52
2:M:906:PHE:CE1	3:N:1067:VAL:HG13	2.44	0.52
2:M:975:TYR:HA	2:M:982:PRO:HA	1.91	0.52
3:N:87:ARG:HD2	3:N:88:TYR:HE2	1.74	0.52
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.23	0.52
3:N:150:ARG:HB2	3:N:150:ARG:HH11	1.74	0.52
3:N:152:LEU:HD23	3:N:152:LEU:O	2.09	0.52
3:N:153:LEU:CD1	3:N:153:LEU:C	2.82	0.52
3:N:632:VAL:CG2	3:N:725:SER:HB2	2.40	0.52
3:N:1481:VAL:HG22	4:O:18:ARG:NH2	2.24	0.52
4:O:40:LEU:C	4:O:40:LEU:HD12	2.34	0.52
7:Y:75:LEU:N	7:Y:75:LEU:HD12	2.24	0.52
7:Z:85:LEU:HD21	7:Z:121:ASP:HB2	1.90	0.52
2:C:564:MET:HE2	2:C:846:LYS:CD	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:602:GLU:HG3	2:C:603:VAL:H	1.75	0.52
2:C:687:ALA:HB1	2:C:850:ALA:HB2	1.90	0.52
3:D:704:ARG:HB2	3:D:736:PHE:HB3	1.91	0.52
1:F:91:ASN:ND2	1:F:93:SER:H	2.07	0.52
1:F:124:ASN:ND2	1:F:127:LEU:HD22	2.23	0.52
1:G:16:GLN:HA	1:G:16:GLN:NE2	2.24	0.52
3:I:15:PRO:O	3:I:19:ARG:HG2	2.09	0.52
3:I:800:LYS:HE2	3:I:804:LEU:HD22	1.91	0.52
3:I:853:VAL:HG13	3:I:858:VAL:O	2.10	0.52
3:I:1101:VAL:CG2	3:I:1424:VAL:HG23	2.39	0.52
3:I:1109:GLU:HG2	3:I:1201:CYS:CB	2.39	0.52
3:I:1352:ILE:HG21	3:I:1368:ILE:HD12	1.91	0.52
1:L:73:GLU:OE1	1:L:130:ALA:HA	2.10	0.52
2:M:184:MET:HB2	2:M:193:LEU:CD2	2.39	0.52
2:M:376:ARG:CB	2:M:377:PRO:HD3	2.40	0.52
2:M:461:VAL:HG13	2:M:465:GLY:O	2.09	0.52
2:M:585:GLU:O	2:M:588:VAL:HG22	2.10	0.52
2:M:616:GLU:OE1	2:M:616:GLU:HA	2.09	0.52
2:M:839:LEU:N	2:M:839:LEU:HD23	2.25	0.52
2:M:911:GLU:CD	3:N:951:ILE:CD1	2.74	0.52
3:N:789:LEU:CD1	3:N:934:LEU:HD22	2.39	0.52
3:N:827:ILE:O	3:N:827:ILE:HG22	2.09	0.52
3:N:918:ALA:HB3	3:N:927:THR:HG23	1.91	0.52
3:N:1026:SER:C	3:N:1028:ALA:H	2.18	0.52
2:C:455:LEU:HD12	2:C:455:LEU:C	2.35	0.52
2:C:571:LEU:HD11	2:C:700:TYR:C	2.33	0.52
3:D:1089:ALA:C	3:D:1091:SER:H	2.18	0.52
3:D:1434:TRP:CZ3	3:D:1457:ASP:N	2.78	0.52
1:F:13:VAL:O	1:G:230:ALA:HA	2.09	0.52
1:F:40:LEU:HA	1:F:43:ILE:HD12	1.91	0.52
1:G:109:VAL:CG2	1:G:132:LEU:HD13	2.40	0.52
1:G:161:ARG:HB2	1:G:164:ALA:HB2	1.92	0.52
2:H:44:ILE:HD11	2:H:340:MET:HE1	1.91	0.52
2:H:172:ILE:N	2:H:172:ILE:CD1	2.72	0.52
2:H:249:LYS:O	2:H:251:ASP:N	2.43	0.52
2:H:469:THR:HG23	2:H:470:PRO:CD	2.37	0.52
2:H:524:VAL:HG12	2:H:525:SER:H	1.70	0.52
2:H:997:LEU:C	2:H:999:HIS:N	2.64	0.52
3:I:104:PHE:O	3:I:112:ILE:HG22	2.10	0.52
3:I:729:HIS:HE2	3:I:935:LYS:HD3	1.73	0.52
3:I:923:GLY:O	3:I:927:THR:OG1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:957:PRO:CG	3:I:1007:VAL:HG22	2.39	0.52
3:I:997:THR:CG2	7:Y:61:ARG:HH12	2.22	0.52
3:I:1018:ASN:O	3:I:1022:VAL:HG23	2.08	0.52
3:I:1099:VAL:O	3:I:1103:HIS:HB3	2.08	0.52
1:K:91:ASN:ND2	1:K:93:SER:H	2.07	0.52
2:M:21:ILE:HD12	2:M:21:ILE:N	2.14	0.52
2:M:254:VAL:HA	2:M:257:VAL:CG2	2.39	0.52
2:M:258:TYR:CZ	2:M:290:LEU:HD11	2.44	0.52
2:M:317:VAL:C	2:M:319:GLY:N	2.65	0.52
3:N:639:LEU:N	3:N:729:HIS:CD2	2.78	0.52
3:N:704:ARG:HB2	3:N:736:PHE:HB3	1.91	0.52
3:N:1401:GLU:OE2	3:N:1415:VAL:HG21	2.09	0.52
5:T:19:DC:O2	6:U:12:G:O6	2.28	0.52
1:A:74:ASP:OD1	1:A:77:GLU:HB2	2.09	0.52
2:C:170:PRO:HG2	2:C:258:TYR:HD1	1.66	0.52
2:C:319:GLY:O	2:C:321:GLU:CD	2.53	0.52
3:D:14:SER:O	3:D:18:ILE:HG12	2.09	0.52
3:D:160:GLU:O	3:D:164:GLY:C	2.53	0.52
3:D:639:LEU:N	3:D:729:HIS:CD2	2.78	0.52
3:D:1173:LEU:HD12	3:D:1176:LYS:NZ	2.24	0.52
1:F:85:LEU:HA	1:F:124:ASN:ND2	2.25	0.52
2:H:115:LEU:HA	2:H:375:SER:CB	2.38	0.52
2:H:139:GLN:NE2	2:H:414:GLY:HA3	2.24	0.52
2:H:439:CYS:HB2	2:H:541:SER:HB2	1.92	0.52
2:H:834:GLN:NE2	3:I:724:GLN:HG3	2.15	0.52
3:I:457:GLY:C	3:I:459:GLU:N	2.66	0.52
3:I:729:HIS:CG	3:I:730:PRO:HD2	2.44	0.52
3:I:1031:ASN:HB3	3:I:1034:GLN:OE1	2.09	0.52
3:I:1256:LEU:C	3:I:1260:ILE:HG13	2.35	0.52
3:I:1292:VAL:HG23	3:I:1305:LEU:HG	1.92	0.52
3:I:1295:GLU:N	3:I:1295:GLU:OE2	2.41	0.52
1:K:31:GLY:O	1:K:34:VAL:HG13	2.10	0.52
1:K:38:ASN:HB2	2:M:980:GLY:HA3	1.92	0.52
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.22	0.52
2:M:668:LEU:HD12	2:M:668:LEU:H	1.73	0.52
3:N:1150:ALA:HB3	3:N:1187:PRO:HB2	1.92	0.52
3:N:1173:LEU:HD12	3:N:1176:LYS:NZ	2.25	0.52
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.39	0.52
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.40	0.52
1:A:104:GLU:OE1	1:A:137:ARG:HG2	2.09	0.52
1:B:16:GLN:HA	1:B:16:GLN:NE2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:176:ARG:HG3	1:B:200:TRP:CE3	2.44	0.52
2:C:182:VAL:HG11	2:C:193:LEU:HB2	1.91	0.52
2:C:202:TYR:CZ	2:C:304:LEU:HD22	2.43	0.52
2:C:336:VAL:HA	2:C:339:LEU:HD12	1.91	0.52
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.74	0.52
2:C:906:PHE:CE1	3:D:1067:VAL:HA	2.45	0.52
2:C:958:THR:HG23	2:C:961:GLU:HG2	1.89	0.52
3:D:11:ALA:HB1	3:D:507:ASN:ND2	2.25	0.52
3:D:123:LEU:O	3:D:126:VAL:HB	2.09	0.52
3:D:166:GLN:HB2	2:H:210:GLU:OE2	2.10	0.52
3:D:957:PRO:HG2	3:D:1007:VAL:CG2	2.40	0.52
3:D:1225:ALA:HB2	3:D:1370:ILE:HD12	1.91	0.52
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.39	0.52
1:F:20:TYR:HE2	1:F:198:ARG:HB2	1.75	0.52
2:H:170:PRO:CD	2:H:263:ASP:CB	2.74	0.52
2:H:224:GLU:HB3	2:H:228:ALA:CB	2.39	0.52
2:H:437:ARG:CG	2:H:467:ILE:HG22	2.40	0.52
3:I:496:LEU:HD12	3:I:496:LEU:O	2.10	0.52
3:I:996:TRP:HA	3:I:999:THR:CG2	2.40	0.52
3:I:1066:THR:HG23	3:I:1069:GLU:H	1.73	0.52
3:I:1112:CYS:HB3	3:I:1201:CYS:SG	2.49	0.52
3:I:1149:LEU:HG	3:I:1166:LEU:CD2	2.39	0.52
2:M:75:GLU:O	2:M:93:PRO:HD3	2.10	0.52
2:M:111:ASP:OD2	2:M:369:PRO:HG2	2.06	0.52
2:M:139:GLN:HE22	2:M:415:PRO:CD	2.22	0.52
2:M:439:CYS:HB2	2:M:541:SER:HB2	1.91	0.52
2:M:553:ASP:OD2	2:M:883:GLY:N	2.40	0.52
2:M:1083:GLU:HG3	3:N:87:ARG:NH1	2.25	0.52
2:M:1092:LEU:CD1	2:M:1099:VAL:HG21	2.14	0.52
3:N:15:PRO:O	3:N:19:ARG:HG2	2.09	0.52
3:N:215:TYR:CE2	3:N:343:LYS:HB2	2.44	0.52
3:N:371:ILE:HG13	3:N:372:ASP:N	2.24	0.52
3:N:683:ILE:HG21	3:N:688:TRP:CE2	2.45	0.52
3:N:701:LEU:HD12	3:N:701:LEU:N	2.24	0.52
3:N:794:GLN:HG2	3:N:1017:PHE:HE2	1.73	0.52
3:N:826:PRO:HD2	3:N:829:VAL:CG2	2.40	0.52
3:N:1326:THR:CG2	3:N:1327:ARG:N	2.71	0.52
4:O:59:ASN:ND2	4:O:62:THR:OG1	2.43	0.52
6:U:15:G:O2'	6:U:16:G:H5'	2.10	0.52
7:Z:102:VAL:CG1	7:Z:103:GLN:N	2.73	0.52
1:A:40:LEU:HA	1:A:43:ILE:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:80:LEU:HD12	1:B:83:LYS:HE3	1.90	0.52
2:C:115:LEU:HA	2:C:375:SER:CB	2.39	0.52
2:C:154:ARG:NH2	2:C:178:PRO:HD3	2.24	0.52
2:C:879:ARG:CZ	7:X:42:ASP:HB2	2.39	0.52
3:D:116:LEU:CD1	3:D:461:ILE:HG23	2.40	0.52
3:D:820:GLU:CB	3:D:836:VAL:HG21	2.40	0.52
3:D:853:VAL:HG13	3:D:858:VAL:O	2.10	0.52
2:H:474:VAL:HG13	2:H:474:VAL:O	2.10	0.52
2:H:726:ILE:HG12	2:H:734:LEU:HD21	1.92	0.52
2:H:1056:LYS:CD	3:I:623:VAL:HG13	2.38	0.52
3:I:139:GLY:O	3:I:162:ARG:NH2	2.34	0.52
3:I:203:ALA:HA	3:I:395:VAL:HA	1.92	0.52
3:I:205:TYR:HA	3:I:393:ILE:HA	1.92	0.52
3:I:1189:ARG:HG3	3:I:1189:ARG:NH1	2.25	0.52
4:J:25:LYS:C	4:J:28:GLN:HG3	2.35	0.52
4:J:30:LEU:O	4:J:35:PHE:HA	2.08	0.52
1:K:117:VAL:HB	1:K:120:VAL:HG13	1.92	0.52
1:K:183:ASP:OD1	1:K:183:ASP:N	2.30	0.52
2:M:78:PHE:HB3	2:M:79:PRO:CD	2.35	0.52
2:M:178:PRO:O	2:M:180:GLY:N	2.43	0.52
2:M:430:VAL:HG13	3:N:1075:HIS:HD1	1.74	0.52
3:N:111:LYS:HD3	3:N:1448:THR:HG22	1.91	0.52
3:N:191:LEU:HD13	3:N:393:ILE:HB	1.92	0.52
3:N:1189:ARG:HG3	3:N:1189:ARG:NH1	2.24	0.52
7:Y:19:LEU:O	7:Y:23:ARG:HG3	2.10	0.52
2:C:442:GLU:CG	2:C:454:SER:HB2	2.40	0.52
3:D:781:PRO:HB2	3:D:786:ILE:CD1	2.40	0.52
3:D:1132:LEU:HD12	3:D:1132:LEU:N	2.24	0.52
2:H:140:ILE:HD11	2:H:412:ALA:CA	2.35	0.52
2:H:186:VAL:HG23	2:H:186:VAL:O	2.09	0.52
2:H:290:LEU:HB3	2:H:302:VAL:CG1	2.24	0.52
2:H:304:LEU:CD2	2:H:305:PRO:HD3	2.39	0.52
2:H:383:ARG:HH11	2:H:383:ARG:CB	2.18	0.52
2:H:516:ARG:HG3	3:I:1068:LEU:CD1	2.40	0.52
2:H:546:LEU:C	2:H:581:THR:HG21	2.34	0.52
3:I:787:LEU:HD12	3:I:787:LEU:O	2.09	0.52
3:I:918:ALA:HB3	3:I:927:THR:HG23	1.91	0.52
3:I:1146:GLY:CA	3:I:1207:TYR:HB2	2.40	0.52
3:I:1173:LEU:HD12	3:I:1176:LYS:NZ	2.25	0.52
1:K:40:LEU:HA	1:K:43:ILE:HD12	1.91	0.52
1:L:122:ILE:HD12	1:L:122:ILE:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.45	0.52
2:M:252:LYS:O	2:M:255:ALA:N	2.39	0.52
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.74	0.52
3:N:84:ILE:O	3:N:87:ARG:HG3	2.10	0.52
3:N:810:GLU:C	3:N:812:ALA:N	2.64	0.52
3:N:1496:GLU:HA	3:N:1499:ARG:CZ	2.39	0.52
1:A:91:ASN:ND2	1:A:93:SER:H	2.07	0.52
1:B:74:ASP:CB	3:D:872:ARG:NH2	2.58	0.52
1:B:88:ARG:HH11	1:B:123:MET:HE1	1.74	0.52
2:C:107:LEU:C	2:C:108:ILE:HG13	2.35	0.52
2:C:345:ARG:HA	2:C:348:LEU:HB2	1.92	0.52
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.92	0.52
2:C:897:LEU:HD11	2:C:917:LEU:O	2.10	0.52
2:C:1043:TYR:CD2	3:D:710:ARG:HD2	2.45	0.52
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.40	0.52
3:D:996:TRP:HA	3:D:999:THR:CG2	2.40	0.52
3:D:1109:GLU:HG3	3:D:1217:ILE:CD1	2.40	0.52
1:F:20:TYR:HD2	1:F:21:GLY:H	1.56	0.52
1:F:156:HIS:CD2	1:F:158:ILE:HD12	2.44	0.52
2:H:165:LEU:HG	2:H:166:PRO:HA	1.92	0.52
2:H:359:MET:SD	2:H:359:MET:O	2.69	0.52
2:H:455:LEU:HD12	2:H:455:LEU:C	2.35	0.52
2:H:1081:VAL:HG13	2:H:1085:PHE:CB	2.38	0.52
3:I:632:VAL:CG2	3:I:725:SER:HB2	2.39	0.52
3:I:686:GLU:HA	3:I:689:ASP:OD2	2.10	0.52
3:I:1001:GLU:OE2	7:Y:25:ARG:NH2	2.42	0.52
3:I:1089:ALA:C	3:I:1091:SER:N	2.66	0.52
3:I:1098:LEU:HD23	3:I:1229:ILE:HB	1.91	0.52
4:J:9:LEU:HB3	4:J:19:LEU:CD2	2.40	0.52
1:L:146:ARG:O	1:L:146:ARG:HG3	2.10	0.52
2:M:21:ILE:H	2:M:21:ILE:CD1	2.10	0.52
2:M:84:ARG:NE	2:M:133:ASP:OD2	2.41	0.52
2:M:102:HIS:O	2:M:104:ASP:O	2.28	0.52
2:M:157:ARG:CD	2:M:314:THR:OG1	2.45	0.52
2:M:501:THR:HG22	2:M:513:VAL:HG13	1.92	0.52
3:N:414:ARG:HB3	3:N:450:TYR:CE1	2.46	0.52
3:N:607:LEU:HD23	3:N:613:ARG:HB2	1.91	0.52
3:N:1141:GLU:HG2	3:N:1168:MET:HE1	1.90	0.52
3:N:1438:ALA:N	3:N:1446:VAL:HG11	2.25	0.52
3:N:1493:LYS:O	3:N:1497:GLU:HG3	2.09	0.52
1:A:189:ARG:CG	1:A:189:ARG:NH1	2.72	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:524:VAL:HG13	2:C:528:GLU:OE1	2.10	0.51
3:D:133:ILE:CG2	3:D:134:VAL:H	2.23	0.51
3:D:623:VAL:HG12	3:D:624:ASP:O	2.10	0.51
3:D:1089:ALA:C	3:D:1091:SER:N	2.66	0.51
3:D:1105:ILE:N	3:D:1105:ILE:CD1	2.72	0.51
3:D:1122:LEU:N	3:D:1122:LEU:CD1	2.73	0.51
3:D:1189:ARG:HG3	3:D:1189:ARG:NH1	2.25	0.51
1:F:12:THR:OG1	1:F:24:VAL:HB	2.09	0.51
1:F:99:LEU:HB3	1:F:114:PHE:CD2	2.45	0.51
1:F:117:VAL:HB	1:F:120:VAL:HG13	1.92	0.51
1:F:198:ARG:NH2	2:H:934:PHE:CD1	2.78	0.51
2:H:50:GLU:HG2	2:H:51:THR:N	2.25	0.51
2:H:351:LEU:HD12	2:H:374:ASN:HD21	1.74	0.51
3:I:543:LEU:HD21	3:I:600:LEU:CB	2.38	0.51
3:I:1156:LEU:CD1	3:I:1176:LYS:HE3	2.40	0.51
4:J:41:GLU:O	4:J:42:PRO:O	2.28	0.51
1:K:58:ILE:HG21	1:K:68:ILE:CD1	2.40	0.51
1:L:59:GLU:HG3	1:L:60:ASP:N	2.21	0.51
2:M:202:TYR:CZ	2:M:304:LEU:HD23	2.44	0.51
2:M:207:LEU:HD22	2:M:221:LEU:CD1	2.39	0.51
2:M:859:PRO:HB2	2:M:867:VAL:HG21	1.91	0.51
2:M:861:LEU:HD23	2:M:863:ASP:N	2.23	0.51
3:N:465:LEU:CD1	3:N:510:GLU:HA	2.36	0.51
2:C:11:GLU:CG	2:C:537:LYS:HZ1	2.20	0.51
2:C:278:GLU:HA	2:C:283:ILE:O	2.10	0.51
2:C:577:PRO:HG3	2:C:993:PHE:CZ	2.45	0.51
2:C:881:ASN:O	2:C:884:GLN:HG3	2.11	0.51
3:D:632:VAL:CG2	3:D:725:SER:HB2	2.39	0.51
3:D:826:PRO:HD2	3:D:829:VAL:CG2	2.40	0.51
3:D:950:GLY:O	3:D:953:ASP:HB2	2.10	0.51
3:D:1114:THR:CG2	3:D:1114:THR:O	2.58	0.51
4:E:47:LYS:O	4:E:54:LEU:HD12	2.11	0.51
1:G:176:ARG:HG3	1:G:200:TRP:CE3	2.44	0.51
2:H:101:ILE:CD1	2:H:108:ILE:HG23	2.39	0.51
2:H:278:GLU:HA	2:H:283:ILE:O	2.10	0.51
2:H:435:TYR:O	2:H:437:ARG:HD2	2.11	0.51
2:H:524:VAL:HG13	2:H:528:GLU:OE1	2.10	0.51
3:I:87:ARG:CG	3:I:523:ASP:CB	2.76	0.51
3:I:141:ILE:HD11	3:I:448:GLU:OE2	2.10	0.51
3:I:190:GLU:HG2	3:I:196:VAL:HG22	1.92	0.51
1:L:23:PHE:O	1:L:196:THR:HA	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:214:TYR:HD1	2:M:215:GLY:N	2.09	0.51
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.92	0.51
2:M:897:LEU:CD2	2:M:920:GLN:HG2	2.40	0.51
2:M:1036:GLU:HG3	3:N:707:THR:HG1	1.75	0.51
3:N:102:ILE:HD13	3:N:102:ILE:C	2.35	0.51
3:N:853:VAL:HG13	3:N:858:VAL:O	2.10	0.51
3:N:1066:THR:HG23	3:N:1069:GLU:H	1.74	0.51
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.75	0.51
3:N:1492:LEU:HD12	3:N:1493:LYS:CE	2.40	0.51
1:B:101:LEU:HD12	1:B:114:PHE:N	2.25	0.51
2:C:98:LEU:HD21	2:C:113:VAL:CG2	2.39	0.51
2:C:473:ARG:CA	2:C:531:PHE:CD1	2.92	0.51
2:C:501:THR:CG2	2:C:513:VAL:CG1	2.88	0.51
2:C:654:LEU:HD23	2:C:654:LEU:N	2.17	0.51
2:C:668:LEU:HD12	2:C:668:LEU:H	1.73	0.51
2:C:679:PHE:HB2	2:C:683:ASN:ND2	2.23	0.51
2:C:861:LEU:HA	2:C:974:LEU:HD12	1.92	0.51
2:C:1030:GLN:HE21	3:D:628:ARG:CD	2.23	0.51
3:D:173:PRO:HB3	2:H:279:GLU:CD	2.36	0.51
3:D:457:GLY:C	3:D:459:GLU:N	2.66	0.51
3:D:923:GLY:O	3:D:927:THR:OG1	2.28	0.51
3:D:980:MET:HB3	3:D:982:PHE:HE2	1.72	0.51
3:D:1393:GLN:OE1	3:D:1397:LYS:HD2	2.10	0.51
3:D:1401:GLU:OE2	3:D:1415:VAL:HG21	2.10	0.51
1:F:58:ILE:HG21	1:F:68:ILE:CD1	2.40	0.51
1:G:52:ALA:HB2	1:G:170:VAL:O	2.10	0.51
2:H:294:GLU:CG	2:H:295:ASP:OD2	2.58	0.51
2:H:328:LEU:N	2:H:328:LEU:CD1	2.72	0.51
2:H:997:LEU:HD22	2:H:997:LEU:N	2.26	0.51
3:I:705:ALA:CB	3:I:706:PRO:CD	2.89	0.51
3:I:810:GLU:C	3:I:812:ALA:N	2.67	0.51
3:I:820:GLU:CB	3:I:836:VAL:HG21	2.40	0.51
4:J:54:LEU:HD23	4:J:58:PRO:CG	2.41	0.51
2:M:143:SER:HB3	2:M:332:ARG:HB2	1.92	0.51
2:M:317:VAL:O	2:M:317:VAL:HG12	2.11	0.51
2:M:435:TYR:O	2:M:437:ARG:HD2	2.10	0.51
2:M:455:LEU:HD12	2:M:455:LEU:C	2.35	0.51
2:M:468:ARG:HG2	2:M:486:MET:C	2.34	0.51
2:M:685:GLU:OE2	3:N:783:ARG:HD2	2.09	0.51
3:N:165:LYS:HZ2	3:N:199:LEU:HB3	1.75	0.51
3:N:204:LEU:O	3:N:393:ILE:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:496:LEU:HD12	3:N:496:LEU:O	2.10	0.51
3:N:1155:VAL:HG12	3:N:1177:ALA:CB	2.39	0.51
6:U:14:C:H2'	6:U:15:G:H8	1.75	0.51
7:Y:90:GLU:O	7:Y:91:LEU:HD23	2.10	0.51
7:Z:128:ALA:HB2	7:Z:140:LEU:HD11	1.91	0.51
2:C:151:ASP:CG	2:C:152:PRO:CD	2.84	0.51
2:C:186:VAL:O	2:C:186:VAL:HG23	2.10	0.51
2:C:249:LYS:O	2:C:251:ASP:N	2.44	0.51
2:C:327:HIS:CE1	2:C:433:THR:HG21	2.45	0.51
2:C:344:PHE:CZ	2:C:378:LEU:HD21	2.45	0.51
2:C:426:ASP:C	2:C:426:ASP:OD1	2.50	0.51
3:D:805:GLU:O	3:D:809:PRO:HD2	2.09	0.51
3:D:810:GLU:C	3:D:812:ALA:H	2.16	0.51
3:D:1001:GLU:OE2	7:X:25:ARG:NH2	2.43	0.51
1:G:48:ILE:CD1	1:G:48:ILE:H	2.23	0.51
2:H:15:LEU:O	2:H:586:ARG:NH2	2.44	0.51
2:H:31:GLN:OE1	2:H:39:ARG:HA	2.11	0.51
2:H:474:VAL:HG11	2:H:529:VAL:HG12	1.91	0.51
3:I:95:LEU:HD21	3:I:574:LEU:HD11	1.93	0.51
3:I:477:LEU:HD22	3:I:492:ALA:CB	2.40	0.51
3:I:610:LYS:O	3:I:615:ARG:HG2	2.09	0.51
3:I:614:PHE:CE2	3:I:1438:ALA:HB1	2.46	0.51
3:I:1256:LEU:HB3	3:I:1257:PRO:CD	2.36	0.51
3:I:1381:VAL:O	3:I:1389:LEU:O	2.28	0.51
1:K:223:THR:C	1:K:225:PHE:H	2.19	0.51
1:L:110:LYS:HD3	1:L:126:ASP:HA	1.93	0.51
2:M:263:ASP:CB	2:M:264:PRO:HD3	2.26	0.51
2:M:878:SER:HB3	3:N:1029:ARG:CZ	2.40	0.51
2:M:997:LEU:O	2:M:999:HIS:N	2.41	0.51
3:N:186:VAL:HG12	3:N:187:LYS:N	2.25	0.51
3:N:205:TYR:CD1	3:N:390:PRO:HG3	2.45	0.51
3:N:918:ALA:CB	3:N:927:THR:HG23	2.41	0.51
3:N:996:TRP:HA	3:N:999:THR:CG2	2.40	0.51
3:N:1225:ALA:HB2	3:N:1370:ILE:HD12	1.91	0.51
3:N:1235:GLN:HG3	7:Z:43:TYR:OH	2.11	0.51
3:N:1252:ILE:CG1	3:N:1253:THR:H	2.23	0.51
3:N:1352:ILE:HG21	3:N:1368:ILE:HD12	1.91	0.51
3:N:1356:TYR:HD2	3:N:1361:VAL:HG11	1.76	0.51
3:N:1496:GLU:HB2	3:N:1499:ARG:NH2	2.24	0.51
7:Y:64:SER:O	7:Y:68:ILE:HG12	2.10	0.51
1:B:52:ALA:HB1	1:B:170:VAL:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:71:TYR:CD1	2:C:71:TYR:O	2.63	0.51
2:C:1097:LEU:HD13	3:D:1451:ALA:HB1	1.92	0.51
2:C:1099:VAL:HG22	3:D:10:ILE:CD1	2.41	0.51
3:D:368:VAL:HB	3:D:377:VAL:CB	2.40	0.51
3:D:496:LEU:HD12	3:D:496:LEU:O	2.10	0.51
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.25	0.51
3:D:1198:TYR:HE1	3:D:1432:LYS:HZ1	1.58	0.51
1:F:88:ARG:HH12	1:F:90:LEU:HD11	1.76	0.51
1:G:83:LYS:HD3	3:I:844:ALA:CB	2.39	0.51
2:H:64:LEU:HD13	2:H:359:MET:HG2	1.92	0.51
2:H:374:ASN:ND2	2:H:374:ASN:N	2.59	0.51
2:H:1088:LEU:CD2	2:H:1092:LEU:HD12	2.34	0.51
3:I:26:VAL:HG21	3:I:519:VAL:HG21	1.93	0.51
3:I:827:ILE:O	3:I:827:ILE:HG22	2.10	0.51
3:I:1209:LEU:HD21	4:J:16:LYS:HZ2	1.75	0.51
3:I:1465:ASN:ND2	3:I:1470:ARG:NH2	2.46	0.51
2:M:462:ASP:HB2	2:M:468:ARG:HH11	1.74	0.51
2:M:897:LEU:HD11	2:M:917:LEU:O	2.10	0.51
3:N:172:PRO:HD3	3:N:195:VAL:HG23	1.91	0.51
3:N:611:GLN:HG3	3:N:611:GLN:O	2.10	0.51
3:N:1109:GLU:HG3	3:N:1217:ILE:CD1	2.41	0.51
4:O:18:ARG:HH21	4:O:18:ARG:CB	2.17	0.51
4:O:26:ARG:NH1	4:O:73:LEU:HD23	2.26	0.51
4:O:27:ALA:HA	4:O:30:LEU:HD12	1.91	0.51
4:O:54:LEU:O	4:O:54:LEU:CD2	2.59	0.51
2:C:107:LEU:O	2:C:108:ILE:HG13	2.10	0.51
2:C:252:LYS:O	2:C:255:ALA:N	2.39	0.51
2:C:274:ARG:O	2:C:277:ALA:HB3	2.10	0.51
2:C:859:PRO:HB2	2:C:867:VAL:HG21	1.91	0.51
2:C:939:ARG:HA	2:C:939:ARG:NE	2.14	0.51
2:C:1038:TRP:CE2	3:D:1099:VAL:HG11	2.46	0.51
3:D:400:VAL:O	3:D:400:VAL:HG13	2.09	0.51
3:D:426:LYS:HE3	3:D:427:VAL:HG23	1.91	0.51
3:D:1437:ALA:HB1	3:D:1446:VAL:CG2	2.40	0.51
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.09	0.51
2:H:115:LEU:HA	2:H:375:SER:OG	2.10	0.51
2:H:115:LEU:HD12	2:H:378:LEU:CD2	2.41	0.51
2:H:332:ARG:HE	2:H:464:LEU:HD12	1.76	0.51
2:H:335:THR:O	2:H:336:VAL:C	2.54	0.51
2:H:376:ARG:CB	2:H:377:PRO:HD3	2.40	0.51
2:H:1081:VAL:HG12	2:H:1085:PHE:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:593:ASN:HD22	3:I:594:PRO:HD2	1.76	0.51
3:I:804:LEU:HB3	3:I:830:ALA:O	2.10	0.51
1:K:91:ASN:HD22	1:K:93:SER:HB2	1.75	0.51
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.92	0.51
1:L:62:LEU:CD1	1:L:63:HIS:H	2.24	0.51
1:L:173:PRO:O	1:L:201:THR:CG2	2.59	0.51
2:M:26:TYR:O	2:M:29:ALA:HB3	2.09	0.51
2:M:395:LYS:HE2	2:M:403:SER:HB2	1.92	0.51
2:M:430:VAL:CG1	3:N:1075:HIS:HA	2.41	0.51
2:M:524:VAL:HG13	2:M:528:GLU:OE1	2.10	0.51
3:N:148:GLU:HB3	3:N:151:GLN:HB3	1.93	0.51
3:N:167:GLU:OE1	3:N:198:ARG:HB2	2.10	0.51
3:N:407:VAL:CG2	3:N:408:GLU:H	2.05	0.51
3:N:701:LEU:HD11	3:N:750:PRO:HG3	1.93	0.51
3:N:758:GLU:CB	4:O:20:THR:HG21	2.41	0.51
3:N:793:THR:HG21	3:N:906:GLN:HG2	1.93	0.51
4:O:41:GLU:O	4:O:42:PRO:O	2.28	0.51
2:C:148:PHE:HE2	2:C:160:ALA:HB1	1.75	0.51
3:D:207:PHE:CE1	2:H:283:ILE:HG13	2.42	0.51
3:D:793:THR:HG21	3:D:906:GLN:HG2	1.93	0.51
3:D:1205:TYR:HE1	3:D:1370:ILE:HD11	1.76	0.51
3:D:1221:VAL:O	3:D:1222:GLY:C	2.53	0.51
3:D:1408:ILE:HD12	3:D:1408:ILE:H	1.76	0.51
2:H:86:LYS:O	2:H:813:VAL:HG23	2.10	0.51
2:H:292:ARG:HD3	2:H:294:GLU:OE1	2.10	0.51
2:H:598:GLU:HB2	2:H:615:TYR:OH	2.10	0.51
2:H:897:LEU:HD11	2:H:917:LEU:O	2.10	0.51
2:H:1095:LEU:HD11	2:H:1097:LEU:HD22	1.93	0.51
3:I:10:ILE:HG22	3:I:10:ILE:O	2.11	0.51
3:I:199:LEU:HD21	3:I:397:LYS:HZ1	1.76	0.51
3:I:511:TRP:N	3:I:511:TRP:CE3	2.79	0.51
3:I:826:PRO:HD2	3:I:829:VAL:CG2	2.40	0.51
3:I:1098:LEU:HD21	3:I:1229:ILE:CG2	2.41	0.51
3:I:1108:ARG:N	3:I:1108:ARG:CD	2.74	0.51
3:I:1384:PRO:HG2	3:I:1388:ARG:NH2	2.26	0.51
1:L:101:LEU:HD12	1:L:114:PHE:N	2.26	0.51
2:M:317:VAL:HG11	2:M:320:HIS:NE2	2.25	0.51
2:M:606:VAL:HG21	2:M:645:VAL:HG22	1.92	0.51
3:N:50:PHE:HB3	3:N:522:PRO:HD2	1.91	0.51
3:N:401:TYR:C	3:N:443:VAL:HG23	2.35	0.51
3:N:686:GLU:HA	3:N:689:ASP:OD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:820:GLU:CB	3:N:836:VAL:HG21	2.40	0.51
3:N:921:ARG:C	3:N:922:LEU:HD23	2.36	0.51
3:N:923:GLY:O	3:N:927:THR:OG1	2.28	0.51
3:N:1448:THR:O	3:N:1452:ILE:HD13	2.11	0.51
7:Y:74:ILE:HD12	7:Y:75:LEU:H	1.75	0.51
2:C:108:ILE:CG2	2:C:109:LYS:N	2.72	0.51
2:C:579:VAL:CG1	2:C:887:GLU:HG3	2.35	0.51
2:C:611:ILE:HD11	2:C:625:LEU:HD21	1.93	0.51
2:C:897:LEU:CD2	2:C:920:GLN:HG2	2.41	0.51
3:D:17:LYS:CG	3:D:21:TRP:HE1	2.20	0.51
3:D:102:ILE:HD13	3:D:102:ILE:C	2.35	0.51
3:D:104:PHE:O	3:D:112:ILE:HG22	2.10	0.51
3:D:112:ILE:HD13	3:D:112:ILE:O	2.11	0.51
3:D:432:TYR:HB3	3:D:450:TYR:CB	2.40	0.51
3:D:511:TRP:N	3:D:511:TRP:CE3	2.79	0.51
3:D:785:ILE:CD1	3:D:939:PHE:CE2	2.94	0.51
3:D:1281:VAL:HG21	3:D:1313:VAL:HG22	1.93	0.51
4:E:41:GLU:O	4:E:42:PRO:O	2.29	0.51
1:F:216:GLU:OE2	1:F:219:ARG:NH2	2.44	0.51
2:H:294:GLU:CG	2:H:295:ASP:CG	2.80	0.51
2:H:344:PHE:CD2	2:H:378:LEU:HD11	2.46	0.51
2:H:365:ASP:C	2:H:365:ASP:OD1	2.53	0.51
2:H:366:SER:C	2:H:371:LYS:HZ1	2.19	0.51
2:H:701:THR:CG2	2:H:832:LYS:HG2	2.41	0.51
2:H:854:PRO:HB2	2:H:856:GLU:CD	2.36	0.51
3:I:28:LYS:CG	3:I:29:PRO:HD2	2.41	0.51
3:I:547:LEU:HD11	3:I:578:VAL:HG23	1.93	0.51
1:K:14:ARG:HH21	2:M:934:PHE:HZ	1.59	0.51
1:L:48:ILE:CG2	1:L:173:PRO:HD2	2.41	0.51
2:M:101:ILE:HB	2:M:108:ILE:CD1	2.40	0.51
2:M:118:ILE:CG2	2:M:382:ILE:HD13	2.33	0.51
2:M:136:ILE:N	2:M:136:ILE:CD1	2.73	0.51
2:M:798:GLY:C	2:M:799:ILE:HD13	2.36	0.51
2:M:881:ASN:O	2:M:884:GLN:HG3	2.11	0.51
2:M:950:LEU:O	2:M:950:LEU:HD13	2.11	0.51
2:M:1044:GLY:HA3	4:O:17:TYR:HE1	1.75	0.51
3:N:142:LEU:HB3	3:N:144:GLY:N	2.22	0.51
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.93	0.51
3:N:432:TYR:CG	3:N:450:TYR:CD2	2.90	0.51
3:N:924:MET:N	4:O:7:ASP:OD2	2.44	0.51
3:N:956:ILE:HD13	3:N:1062:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1442:ASN:O	3:N:1446:VAL:HG23	2.11	0.51
3:N:1496:GLU:HA	3:N:1499:ARG:HE	1.72	0.51
7:X:85:LEU:HD21	7:X:121:ASP:HB2	1.93	0.51
7:Y:94:PRO:HD3	7:Y:148:GLU:O	2.10	0.51
1:B:173:PRO:O	1:B:201:THR:CG2	2.59	0.51
2:C:234:ALA:HA	2:C:237:ARG:HB2	1.93	0.51
2:C:269:LEU:C	2:C:269:LEU:CD2	2.84	0.51
2:C:435:TYR:O	2:C:437:ARG:HD2	2.10	0.51
2:C:443:THR:HG21	3:D:1078:ARG:CD	2.41	0.51
2:C:524:VAL:CG1	2:C:525:SER:H	2.24	0.51
2:C:798:GLY:C	2:C:799:ILE:HD13	2.36	0.51
2:C:950:LEU:O	2:C:950:LEU:HD13	2.11	0.51
3:D:352:ASN:C	3:D:368:VAL:HG13	2.35	0.51
3:D:1365:ASP:O	3:D:1366:LYS:C	2.53	0.51
4:E:33:HIS:CG	4:E:89:MET:HG2	2.46	0.51
4:E:47:LYS:N	4:E:54:LEU:HD13	2.26	0.51
1:F:9:PRO:HB2	1:G:224:TYR:HB3	1.93	0.51
1:G:101:LEU:HD12	1:G:114:PHE:N	2.26	0.51
2:H:25:SER:OG	2:H:335:THR:HB	2.10	0.51
2:H:197:LEU:HA	2:H:200:LEU:HD12	1.92	0.51
2:H:260:LEU:HA	2:H:291:ALA:HB2	1.93	0.51
2:H:1014:SER:C	2:H:1015:LEU:HD12	2.35	0.51
3:I:102:ILE:HD13	3:I:102:ILE:C	2.35	0.51
3:I:205:TYR:CD1	3:I:390:PRO:HB3	2.44	0.51
3:I:611:GLN:HE22	6:S:9:U:C4'	2.00	0.51
3:I:792:ILE:CD1	3:I:881:LEU:HD23	2.38	0.51
1:L:70:GLY:O	1:L:132:LEU:HA	2.11	0.51
2:M:363:SER:O	2:M:367:LEU:HG	2.10	0.51
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.93	0.51
2:M:854:PRO:HB2	2:M:856:GLU:CD	2.36	0.51
2:M:1051:GLU:CD	3:N:751:LEU:H	2.19	0.51
3:N:104:PHE:O	3:N:112:ILE:HG22	2.10	0.51
3:N:479:GLU:O	3:N:483:HIS:ND1	2.42	0.51
3:N:705:ALA:CB	3:N:706:PRO:CD	2.89	0.51
1:A:26:GLU:HB2	1:A:27:PRO:HA	1.93	0.51
1:A:85:LEU:HA	1:A:124:ASN:ND2	2.25	0.51
1:B:132:LEU:HD23	1:B:136:GLY:O	2.11	0.51
2:C:439:CYS:HB2	2:C:541:SER:HB2	1.92	0.51
2:C:861:LEU:HD23	2:C:863:ASP:N	2.23	0.51
3:D:356:PRO:HG2	3:D:359:ALA:HB2	1.93	0.51
3:D:701:LEU:HD11	3:D:750:PRO:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1305:LEU:HD11	3:D:1326:THR:OG1	2.10	0.51
3:D:1395:LEU:HD23	3:D:1395:LEU:C	2.35	0.51
1:F:68:ILE:O	1:F:71:VAL:HB	2.11	0.51
1:F:223:THR:C	1:F:225:PHE:H	2.19	0.51
1:G:109:VAL:HG23	1:G:132:LEU:HD13	1.91	0.51
2:H:174:LEU:HD12	2:H:306:THR:CG2	2.41	0.51
2:H:215:GLY:O	2:H:216:GLU:CB	2.59	0.51
2:H:754:ILE:HG13	2:H:791:ARG:HH12	1.76	0.51
2:H:798:GLY:C	2:H:799:ILE:HD13	2.36	0.51
2:H:1096:ALA:HB1	3:I:12:LEU:CD2	2.41	0.51
3:I:451:ASP:OD1	3:I:452:ILE:N	2.43	0.51
3:I:458:ALA:HB2	3:I:575:GLN:HE22	1.76	0.51
3:I:793:THR:HG21	3:I:906:GLN:HG2	1.93	0.51
3:I:820:GLU:CD	3:I:820:GLU:C	2.79	0.51
3:I:1434:TRP:CD1	3:I:1435:LEU:N	2.79	0.51
4:J:54:LEU:CD2	4:J:58:PRO:HG2	2.41	0.51
1:L:179:PHE:N	1:L:179:PHE:CD2	2.79	0.51
2:M:424:GLY:O	2:M:425:PHE:C	2.53	0.51
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.39	0.51
2:M:679:PHE:CE2	2:M:853:LEU:HD21	2.45	0.51
2:M:861:LEU:HA	2:M:974:LEU:HD12	1.93	0.51
2:M:987:ILE:CD1	3:N:948:THR:HG23	2.41	0.51
3:N:1205:TYR:HE1	3:N:1370:ILE:HD11	1.76	0.51
3:N:1235:GLN:HG2	7:Z:48:LEU:HD12	1.92	0.51
1:A:33:GLY:O	1:A:195:LEU:HD13	2.11	0.50
1:A:150:TYR:CD1	2:C:696:LYS:HG2	2.46	0.50
1:A:176:ARG:NH1	2:C:863:ASP:OD2	2.44	0.50
2:C:17:PRO:HB2	2:C:20:GLU:HB3	1.92	0.50
2:C:64:LEU:HD22	2:C:359:MET:HB2	1.93	0.50
2:C:158:TYR:CD1	2:C:313:LEU:HD21	2.46	0.50
2:C:863:ASP:OD2	2:C:863:ASP:C	2.54	0.50
3:D:631:ILE:HG21	3:D:745:MET:HG3	1.93	0.50
3:D:705:ALA:CB	3:D:706:PRO:CD	2.89	0.50
3:D:795:VAL:CG2	3:D:879:ARG:HH12	2.24	0.50
3:D:918:ALA:CB	3:D:927:THR:HG23	2.41	0.50
3:D:921:ARG:C	3:D:922:LEU:HD23	2.36	0.50
2:H:158:TYR:CD1	2:H:158:TYR:N	2.78	0.50
2:H:328:LEU:HD22	2:H:433:THR:O	2.10	0.50
3:I:701:LEU:HD11	3:I:750:PRO:HG3	1.93	0.50
3:I:806:PHE:C	3:I:808:THR:H	2.17	0.50
3:I:907:GLU:CD	3:I:909:ASN:HD22	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:918:ALA:CB	3:I:927:THR:HG23	2.41	0.50
3:I:1146:GLY:HA3	3:I:1207:TYR:HB2	1.93	0.50
3:I:1434:TRP:NE1	3:I:1435:LEU:HD12	2.25	0.50
1:K:128:HIS:HE1	1:K:131:THR:CG2	2.24	0.50
1:L:45:LEU:HD11	1:L:177:VAL:HG22	1.93	0.50
2:M:129:ILE:CD1	2:M:134:ARG:CB	2.88	0.50
2:M:848:VAL:HG12	2:M:849:VAL:N	2.26	0.50
3:N:166:GLN:CD	3:N:394:LEU:HD12	2.36	0.50
3:N:511:TRP:CE3	3:N:511:TRP:N	2.79	0.50
3:N:926:LYS:O	3:N:929:ARG:HB2	2.11	0.50
6:U:12:G:N3	6:U:12:G:H2'	2.25	0.50
7:Y:92:GLU:HA	7:Y:98:GLU:O	2.10	0.50
7:Z:89:VAL:HG11	7:Z:151:VAL:HG13	1.91	0.50
1:A:117:VAL:HB	1:A:120:VAL:HG13	1.92	0.50
1:A:223:THR:C	1:A:225:PHE:H	2.19	0.50
2:C:41:ASN:O	2:C:46:ALA:HB2	2.11	0.50
2:C:187:ASN:O	2:C:188:LYS:HB3	2.10	0.50
2:C:212:GLY:HA3	2:C:218:VAL:HG21	1.92	0.50
2:C:722:ILE:O	2:C:722:ILE:HG23	2.12	0.50
2:C:754:ILE:HG13	2:C:791:ARG:HH12	1.76	0.50
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.93	0.50
3:D:347:VAL:CG2	3:D:368:VAL:HG11	2.41	0.50
3:D:783:ARG:NH1	7:X:41:ASP:CB	2.74	0.50
3:D:893:GLU:O	3:D:896:ALA:HB3	2.12	0.50
3:D:975:GLU:O	3:D:979:GLU:HG3	2.11	0.50
3:D:1217:ILE:HB	3:D:1480:PHE:CE2	2.46	0.50
3:D:1258:ARG:O	3:D:1262:LEU:HB2	2.12	0.50
3:D:1295:GLU:OE2	3:D:1295:GLU:N	2.44	0.50
3:D:1356:TYR:HD2	3:D:1361:VAL:HG11	1.76	0.50
3:D:1397:LYS:NZ	3:D:1432:LYS:HZ3	2.08	0.50
2:H:442:GLU:CG	2:H:454:SER:HB2	2.40	0.50
2:H:577:PRO:HG3	2:H:993:PHE:CE1	2.45	0.50
2:H:861:LEU:HA	2:H:974:LEU:HD12	1.92	0.50
2:H:897:LEU:CD2	2:H:920:GLN:HG2	2.40	0.50
2:H:950:LEU:HD13	2:H:950:LEU:O	2.11	0.50
3:I:50:PHE:O	3:I:89:ARG:HB2	2.11	0.50
3:I:771:SER:HB2	3:I:778:LEU:CD1	2.37	0.50
3:I:893:GLU:O	3:I:896:ALA:HB3	2.12	0.50
3:I:921:ARG:C	3:I:922:LEU:HD23	2.36	0.50
3:I:939:PHE:O	3:I:943:THR:HG23	2.11	0.50
1:K:184:THR:HG22	1:K:185:ARG:N	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:524:VAL:CG1	2:M:525:SER:H	2.24	0.50
2:M:863:ASP:OD2	2:M:863:ASP:C	2.54	0.50
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.93	0.50
3:N:81:THR:HB	3:N:85:VAL:HG21	1.93	0.50
3:N:762:GLN:NE2	4:O:20:THR:CB	2.75	0.50
3:N:949:ILE:N	3:N:949:ILE:CD1	2.70	0.50
3:N:975:GLU:O	3:N:979:GLU:HG3	2.12	0.50
3:N:1189:ARG:HD2	3:N:1204:CYS:SG	2.52	0.50
2:C:29:ALA:O	2:C:43:GLY:HA3	2.11	0.50
2:C:93:PRO:HA	2:C:117:HIS:CD2	2.46	0.50
2:C:428:ARG:O	3:D:1078:ARG:NH1	2.44	0.50
2:C:605:LYS:HB3	2:C:610:ARG:HH12	1.76	0.50
3:D:23:TYR:CE1	3:D:89:ARG:HG2	2.46	0.50
3:D:51:GLY:O	3:D:86:ARG:CZ	2.60	0.50
3:D:119:SER:HB2	3:D:123:LEU:N	2.25	0.50
3:D:190:GLU:HA	3:D:196:VAL:HG22	1.92	0.50
2:H:251:ASP:O	2:H:252:LYS:C	2.54	0.50
2:H:272:ALA:HA	2:H:464:LEU:CD2	2.42	0.50
2:H:571:LEU:HD21	2:H:699:PHE:O	2.11	0.50
2:H:881:ASN:O	2:H:884:GLN:HG3	2.11	0.50
3:I:10:ILE:CG2	3:I:1450:ALA:O	2.59	0.50
3:I:127:LEU:HD21	3:I:461:ILE:HD11	1.93	0.50
3:I:177:ALA:N	3:I:390:PRO:CD	2.73	0.50
3:I:593:ASN:O	3:I:594:PRO:C	2.54	0.50
3:I:790:TYR:CG	3:I:1026:SER:OG	2.53	0.50
3:I:1372:VAL:CA	3:I:1375:MET:HE3	2.26	0.50
3:I:1468:LEU:HD13	3:I:1470:ARG:NE	2.19	0.50
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.45	0.50
1:L:185:ARG:CD	3:N:692:GLU:HG2	2.40	0.50
2:M:142:ARG:CD	2:M:325:ILE:HG23	2.41	0.50
2:M:896:PHE:O	2:M:924:VAL:HG11	2.12	0.50
3:N:100:ALA:HB3	3:N:128:TYR:CE1	2.46	0.50
3:N:112:ILE:HD13	3:N:112:ILE:O	2.11	0.50
3:N:792:ILE:CD1	3:N:881:LEU:HD23	2.38	0.50
3:N:957:PRO:HG2	3:N:1007:VAL:CG2	2.40	0.50
1:B:51:THR:HG21	1:B:87:VAL:O	2.11	0.50
2:C:188:LYS:HG3	2:C:188:LYS:O	2.10	0.50
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.47	0.50
2:C:571:LEU:HD21	2:C:699:PHE:O	2.12	0.50
2:C:580:MET:HE2	2:C:902:ILE:HG12	1.94	0.50
2:C:854:PRO:HB2	2:C:856:GLU:CD	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1012:PRO:HD2	2:C:1026:GLN:HB2	1.92	0.50
3:D:52:PRO:O	3:D:86:ARG:CD	2.59	0.50
3:D:388:HIS:C	3:D:390:PRO:HD3	2.36	0.50
3:D:1216:SER:HB3	4:E:15:SER:OG	2.11	0.50
2:H:1008:ARG:HG2	2:H:1008:ARG:HH11	1.77	0.50
2:H:1073:GLY:HA3	3:I:659:LYS:HG2	1.91	0.50
3:I:693:GLU:HA	4:J:48:MET:HE1	1.93	0.50
3:I:926:LYS:O	3:I:929:ARG:HB2	2.11	0.50
3:I:1221:VAL:O	3:I:1222:GLY:C	2.53	0.50
1:K:85:LEU:HA	1:K:124:ASN:ND2	2.26	0.50
1:L:165:ILE:N	1:L:165:ILE:CD1	2.70	0.50
2:M:6:PHE:HE2	2:M:917:LEU:HD11	1.77	0.50
2:M:399:ASN:O	2:M:402:SER:HB3	2.12	0.50
2:M:554:ASP:CB	2:M:880:MET:HB2	2.41	0.50
2:M:860:HIS:HA	2:M:866:PRO:HA	1.94	0.50
3:N:179:VAL:HG11	3:N:185:VAL:CG2	2.41	0.50
3:N:511:TRP:C	3:N:513:ILE:H	2.20	0.50
3:N:758:GLU:CA	4:O:20:THR:HG21	2.42	0.50
3:N:800:LYS:CD	3:N:804:LEU:HB3	2.41	0.50
3:N:1089:ALA:C	3:N:1091:SER:H	2.18	0.50
3:N:1468:LEU:CD2	3:N:1470:ARG:HD3	2.41	0.50
7:X:99:ARG:HG3	7:X:99:ARG:NH1	2.27	0.50
1:A:19:GLU:CD	1:A:19:GLU:N	2.68	0.50
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.46	0.50
2:C:598:GLU:HB2	2:C:615:TYR:OH	2.12	0.50
2:C:606:VAL:HG22	2:C:645:VAL:HG13	1.94	0.50
2:C:857:ASP:HB2	2:C:978:ARG:CG	2.40	0.50
2:C:911:GLU:OE2	3:D:1062:ARG:NH1	2.45	0.50
3:D:136:ASP:CG	3:D:137:PRO:N	2.63	0.50
3:D:457:GLY:O	3:D:458:ALA:C	2.54	0.50
3:D:787:LEU:HD12	3:D:787:LEU:C	2.36	0.50
3:D:1052:THR:HG21	7:X:57:ARG:HH11	1.71	0.50
3:D:1109:GLU:CD	3:D:1201:CYS:HB2	2.37	0.50
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.93	0.50
3:D:1448:THR:O	3:D:1451:ALA:HB3	2.11	0.50
4:E:36:LYS:N	4:E:36:LYS:CE	2.74	0.50
2:H:9:ILE:O	2:H:9:ILE:CG1	2.60	0.50
2:H:487:THR:HB	2:H:490:GLU:HG2	1.94	0.50
2:H:535:SER:O	2:H:538:GLN:HG2	2.12	0.50
2:H:863:ASP:C	2:H:863:ASP:OD2	2.54	0.50
2:H:923:GLU:O	2:H:927:GLY:HA3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1030:GLN:HE21	3:I:628:ARG:HD3	1.64	0.50
3:I:557:LEU:HD22	3:I:566:ILE:HG21	1.94	0.50
3:I:631:ILE:HG21	3:I:745:MET:HG3	1.94	0.50
3:I:699:VAL:HA	3:I:718:PRO:HD3	1.94	0.50
3:I:786:ILE:O	3:I:787:LEU:C	2.55	0.50
3:I:1150:ALA:O	3:I:1162:GLU:HG2	2.11	0.50
3:I:1254:GLN:HA	3:I:1258:ARG:HB2	1.93	0.50
1:K:101:LEU:HG	1:K:102:LYS:N	2.25	0.50
2:M:36:PRO:C	2:M:39:ARG:HB2	2.37	0.50
2:M:47:ALA:O	2:M:348:LEU:HD23	2.12	0.50
2:M:63:GLY:HA3	2:M:103:LYS:HE3	1.93	0.50
2:M:572:ILE:HG23	2:M:703:ILE:CD1	2.41	0.50
2:M:838:LYS:HD3	2:M:846:LYS:HZ3	1.76	0.50
3:N:109:PRO:HB3	3:N:494:LYS:NZ	2.27	0.50
3:N:179:VAL:HG13	3:N:183:GLU:CD	2.36	0.50
3:N:180:LYS:HZ1	3:N:386:HIS:C	2.19	0.50
3:N:907:GLU:CD	3:N:909:ASN:HD22	2.19	0.50
3:N:939:PHE:O	3:N:943:THR:HG23	2.12	0.50
3:N:999:THR:CG2	3:N:1000:THR:N	2.75	0.50
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.93	0.50
3:N:1365:ASP:O	3:N:1366:LYS:C	2.54	0.50
2:C:6:PHE:CD1	2:C:909:ALA:HB2	2.47	0.50
2:C:194:VAL:HA	2:C:197:LEU:HD12	1.92	0.50
2:C:449:ILE:C	2:C:451:LEU:H	2.20	0.50
2:C:997:LEU:HD22	2:C:997:LEU:N	2.26	0.50
3:D:109:PRO:HB3	3:D:494:LYS:NZ	2.26	0.50
3:D:400:VAL:CG2	3:D:443:VAL:HG21	2.42	0.50
3:D:699:VAL:HA	3:D:718:PRO:HD3	1.94	0.50
3:D:770:LEU:HB2	3:D:1210:SER:O	2.11	0.50
3:D:882:PHE:HE1	3:D:934:LEU:HD21	1.77	0.50
4:E:36:LYS:HE2	4:E:36:LYS:N	2.26	0.50
1:G:173:PRO:O	1:G:201:THR:CG2	2.59	0.50
2:H:124:ASP:CG	2:H:592:LEU:HD12	2.36	0.50
2:H:570:PRO:HD2	2:H:635:THR:CG2	2.42	0.50
2:H:668:LEU:HD12	2:H:668:LEU:H	1.73	0.50
2:H:722:ILE:HD13	2:H:722:ILE:C	2.36	0.50
3:I:112:ILE:HD13	3:I:112:ILE:O	2.11	0.50
3:I:564:GLU:C	3:I:566:ILE:H	2.18	0.50
3:I:728:LEU:HD22	3:I:745:MET:SD	2.52	0.50
3:I:957:PRO:HG2	3:I:1007:VAL:CG2	2.40	0.50
3:I:1029:ARG:NH2	7:Y:41:ASP:OD2	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:24:VAL:HG22	1:K:196:THR:HG22	1.94	0.50
1:K:50:GLY:HA3	1:K:173:PRO:HG3	1.93	0.50
2:M:111:ASP:OD2	2:M:369:PRO:HB2	2.10	0.50
2:M:263:ASP:OD2	2:M:263:ASP:N	2.43	0.50
2:M:831:ARG:NH1	2:M:1002:GLU:HB2	2.27	0.50
2:M:906:PHE:CZ	3:N:1067:VAL:HA	2.46	0.50
3:N:127:LEU:O	3:N:457:GLY:HA2	2.12	0.50
3:N:882:PHE:HE1	3:N:934:LEU:HD21	1.77	0.50
3:N:893:GLU:O	3:N:896:ALA:HB3	2.12	0.50
3:N:1198:TYR:OH	3:N:1394:VAL:HG11	2.12	0.50
3:N:1221:VAL:O	3:N:1222:GLY:C	2.53	0.50
3:N:1381:VAL:O	3:N:1389:LEU:O	2.29	0.50
3:N:1481:VAL:HG12	4:O:21:VAL:HG21	1.93	0.50
7:Z:83:ILE:CG1	7:Z:154:ILE:HD13	2.41	0.50
1:A:89:PHE:HD1	1:A:120:VAL:CG2	2.25	0.50
2:C:36:PRO:CB	2:C:70:GLU:HG2	2.42	0.50
2:C:99:GLN:HE21	2:C:101:ILE:HD11	1.77	0.50
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.42	0.50
2:C:544:THR:O	2:C:547:ILE:HD12	2.12	0.50
2:C:544:THR:C	2:C:546:LEU:H	2.20	0.50
2:C:545:ASN:HA	2:C:905:ILE:HD11	1.93	0.50
2:C:896:PHE:O	2:C:924:VAL:HG11	2.12	0.50
3:D:173:PRO:HB3	2:H:279:GLU:OE2	2.12	0.50
3:D:368:VAL:H	3:D:377:VAL:HB	1.76	0.50
3:D:447:VAL:O	3:D:449:SER:N	2.44	0.50
3:D:477:LEU:HD22	3:D:492:ALA:CB	2.40	0.50
3:D:810:GLU:C	3:D:812:ALA:N	2.67	0.50
3:D:907:GLU:CD	3:D:909:ASN:HD22	2.19	0.50
3:D:957:PRO:CG	3:D:1007:VAL:HG22	2.39	0.50
3:D:1206:GLY:O	3:D:1215:VAL:HG23	2.12	0.50
3:D:1491:THR:HA	3:D:1494:ALA:HB3	1.93	0.50
1:G:221:HIS:HA	1:G:224:TYR:HD2	1.77	0.50
2:H:9:ILE:HG12	2:H:907:ASP:CG	2.36	0.50
2:H:64:LEU:HD22	2:H:359:MET:HG3	1.92	0.50
2:H:83:CYS:HB3	2:H:88:LEU:O	2.11	0.50
2:H:137:VAL:HG23	2:H:391:LEU:HD23	1.90	0.50
2:H:163:ILE:O	2:H:163:ILE:HG23	2.12	0.50
2:H:169:GLY:HA2	2:H:263:ASP:CB	2.42	0.50
2:H:343:GLN:HA	2:H:346:VAL:CG2	2.42	0.50
2:H:848:VAL:HG12	2:H:849:VAL:N	2.26	0.50
2:H:857:ASP:HB2	2:H:978:ARG:CG	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:50:PHE:HA	3:I:89:ARG:CG	2.42	0.50
3:I:550:ARG:HH11	3:I:573:MET:HB3	1.77	0.50
3:I:1232:PRO:HB3	3:I:1361:VAL:HG21	1.93	0.50
3:I:1277:ILE:HD12	3:I:1277:ILE:N	2.27	0.50
4:J:53:GLY:C	4:J:55:PHE:H	2.20	0.50
2:M:89:THR:HG21	2:M:383:ARG:HH22	1.77	0.50
2:M:674:VAL:O	2:M:989:VAL:HA	2.12	0.50
2:M:681:GLY:C	3:N:635:PRO:CG	2.82	0.50
2:M:997:LEU:HD22	2:M:997:LEU:N	2.26	0.50
3:N:162:ARG:C	3:N:452:ILE:HG21	2.37	0.50
3:N:514:LEU:HD11	3:N:582:LEU:HD11	1.94	0.50
3:N:631:ILE:HG21	3:N:745:MET:HG3	1.93	0.50
3:N:699:VAL:HA	3:N:718:PRO:HD3	1.94	0.50
3:N:771:SER:HB2	3:N:778:LEU:CD1	2.37	0.50
3:N:787:LEU:HD12	3:N:787:LEU:C	2.36	0.50
3:N:957:PRO:CG	3:N:1007:VAL:HG22	2.39	0.50
3:N:1031:ASN:CG	3:N:1032:PRO:HD2	2.37	0.50
3:N:1087:ARG:HB2	3:N:1237:THR:OG1	2.12	0.50
3:N:1277:ILE:HD12	3:N:1277:ILE:N	2.27	0.50
3:N:1288:GLU:O	3:N:1307:LYS:CE	2.57	0.50
3:N:1477:GLY:O	3:N:1478:SER:C	2.54	0.50
3:N:1479:ASP:OD2	3:N:1482:ARG:NH2	2.44	0.50
1:A:50:GLY:HA3	1:A:173:PRO:HG3	1.93	0.50
2:C:101:ILE:HD12	2:C:108:ILE:CD1	2.41	0.50
2:C:272:ALA:O	2:C:464:LEU:HD22	2.12	0.50
3:D:86:ARG:HB3	3:D:523:ASP:OD2	2.11	0.50
3:D:441:ARG:NH1	3:D:445:ARG:CZ	2.75	0.50
3:D:939:PHE:O	3:D:943:THR:HG23	2.11	0.50
3:D:1428:ALA:O	3:D:1429:LEU:C	2.55	0.50
1:F:50:GLY:HA3	1:F:173:PRO:HG3	1.93	0.50
2:H:48:PHE:O	2:H:52:PHE:HB2	2.12	0.50
2:H:110:GLU:O	2:H:111:ASP:CG	2.55	0.50
2:H:683:ASN:HB2	2:H:872:ASN:HB2	1.93	0.50
2:H:797:GLY:O	2:H:829:GLN:NE2	2.45	0.50
2:H:878:SER:C	3:I:1034:GLN:HE22	2.19	0.50
3:I:502:PHE:CZ	3:I:1452:ILE:HG13	2.46	0.50
3:I:1026:SER:O	3:I:1028:ALA:N	2.44	0.50
1:L:152:PRO:HG3	3:N:857:ILE:HG13	1.93	0.50
2:M:86:LYS:O	2:M:87:ASP:CB	2.52	0.50
2:M:380:ALA:O	2:M:384:GLU:HB2	2.12	0.50
2:M:571:LEU:HD11	2:M:700:TYR:CA	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:923:GLU:O	2:M:927:GLY:HA3	2.11	0.50
2:M:1001:VAL:HG22	3:N:630:VAL:CG2	2.42	0.50
3:N:111:LYS:CE	3:N:1448:THR:HG22	2.42	0.50
3:N:782:SER:H	3:N:785:ILE:HD13	1.77	0.50
3:N:987:GLU:OE1	7:Z:120:SER:CB	2.60	0.50
3:N:1372:VAL:CA	3:N:1375:MET:HE3	2.26	0.50
1:B:110:LYS:HD3	1:B:126:ASP:HA	1.93	0.50
1:B:153:ALA:HB2	1:B:168:ASP:N	2.27	0.50
2:C:243:ARG:CB	2:C:244:PRO:HD3	2.42	0.50
2:C:799:ILE:HD13	2:C:799:ILE:N	2.27	0.50
2:C:879:ARG:CZ	7:X:42:ASP:CB	2.87	0.50
2:C:885:ILE:HG13	3:D:949:ILE:HG21	1.94	0.50
3:D:51:GLY:O	3:D:86:ARG:NE	2.45	0.50
3:D:142:LEU:HD23	3:D:146:PRO:CA	2.41	0.50
3:D:162:ARG:NE	3:D:452:ILE:HG21	2.26	0.50
3:D:972:LEU:C	3:D:976:GLN:HE21	2.20	0.50
2:H:36:PRO:HA	2:H:39:ARG:HB3	1.94	0.50
2:H:98:LEU:N	2:H:98:LEU:CD1	2.60	0.50
2:H:198:ARG:HD2	2:H:228:ALA:HA	1.93	0.50
2:H:276:LYS:O	2:H:280:LYS:HB2	2.11	0.50
2:H:799:ILE:HD13	2:H:799:ILE:N	2.27	0.50
2:H:876:VAL:H	2:H:877:PRO:HD2	1.76	0.50
3:I:834:THR:HB	3:I:838:ARG:HD3	1.94	0.50
3:I:1024:ALA:HA	3:I:1029:ARG:O	2.12	0.50
3:I:1093:TYR:CE2	3:I:1097:LYS:HE3	2.47	0.50
3:I:1107:VAL:HG12	3:I:1107:VAL:O	2.12	0.50
3:I:1256:LEU:O	3:I:1259:VAL:N	2.45	0.50
3:I:1281:VAL:HG21	3:I:1313:VAL:HG21	1.94	0.50
3:I:1365:ASP:O	3:I:1366:LYS:C	2.54	0.50
3:I:1472:ILE:HG22	3:I:1473:PRO:CD	2.40	0.50
1:K:88:ARG:HH12	1:K:90:LEU:HD11	1.76	0.50
1:L:73:GLU:HB2	1:L:78:ILE:CG1	2.42	0.50
1:L:138:LEU:HD21	1:L:140:MET:SD	2.52	0.50
2:M:317:VAL:N	2:M:318:PRO:HD3	2.27	0.50
2:M:570:PRO:HD2	2:M:635:THR:CG2	2.42	0.50
2:M:878:SER:HA	3:N:1034:GLN:HE22	1.76	0.50
2:M:1048:THR:O	2:M:1052:MET:HE2	2.12	0.50
3:N:704:ARG:NH2	6:U:16:G:O2'	2.45	0.50
3:N:1107:VAL:O	3:N:1218:GLY:N	2.43	0.50
7:Z:128:ALA:HB2	7:Z:140:LEU:HD21	1.93	0.50
1:A:88:ARG:HH12	1:A:90:LEU:HD11	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:30:ARG:NH1	2:C:692:GLU:OE1	2.45	0.49
2:C:188:LYS:HB2	2:C:188:LYS:NZ	2.25	0.49
2:C:317:VAL:C	2:C:319:GLY:H	2.20	0.49
2:C:625:LEU:O	2:C:626:ARG:C	2.56	0.49
2:C:966:LEU:HD11	2:C:986:PRO:HG2	1.94	0.49
2:C:1038:TRP:O	2:C:1039:ALA:C	2.53	0.49
2:C:1047:HIS:CD2	2:C:1047:HIS:N	2.80	0.49
2:C:1047:HIS:CD2	2:C:1047:HIS:H	2.30	0.49
3:D:13:ALA:CB	3:D:18:ILE:HD11	2.42	0.49
3:D:390:PRO:HB2	3:D:393:ILE:HD11	1.93	0.49
3:D:451:ASP:C	3:D:452:ILE:HG23	2.37	0.49
3:D:1098:LEU:HD21	3:D:1229:ILE:HG22	1.92	0.49
4:E:33:HIS:HB2	4:E:37:ASN:OD1	2.12	0.49
2:H:115:LEU:HA	2:H:375:SER:HB3	1.94	0.49
2:H:215:GLY:O	2:H:216:GLU:HB3	2.12	0.49
2:H:691:SER:O	2:H:692:GLU:C	2.55	0.49
2:H:860:HIS:HA	2:H:866:PRO:HA	1.94	0.49
2:H:879:ARG:NE	7:Y:42:ASP:OD1	2.45	0.49
3:I:141:ILE:HG13	3:I:448:GLU:CD	2.37	0.49
3:I:202:VAL:CG1	3:I:445:ARG:HH21	2.23	0.49
3:I:401:TYR:HB3	3:I:427:VAL:HG13	1.93	0.49
3:I:447:VAL:O	3:I:449:SER:N	2.45	0.49
3:I:972:LEU:C	3:I:976:GLN:HE21	2.20	0.49
3:I:1089:ALA:C	3:I:1091:SER:H	2.19	0.49
3:I:1408:ILE:HD12	3:I:1408:ILE:H	1.76	0.49
4:J:31:LEU:HD12	4:J:32:ARG:H	1.76	0.49
2:M:63:GLY:HA2	2:M:359:MET:CE	2.38	0.49
2:M:274:ARG:HD2	2:M:285:LEU:CD1	2.41	0.49
2:M:383:ARG:HH11	2:M:383:ARG:CB	2.18	0.49
2:M:684:PHE:CB	3:N:633:VAL:HG21	2.41	0.49
2:M:720:GLU:HA	2:M:759:THR:O	2.11	0.49
3:N:162:ARG:HG2	3:N:162:ARG:HH11	1.77	0.49
3:N:438:ASP:HB2	3:N:445:ARG:NH1	2.27	0.49
3:N:481:MET:SD	3:N:496:LEU:HD23	2.52	0.49
3:N:660:LYS:HZ1	3:N:660:LYS:CA	2.25	0.49
3:N:676:MET:O	3:N:680:GLN:N	2.44	0.49
3:N:700:VAL:HG12	3:N:749:VAL:HG13	1.94	0.49
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.94	0.49
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	2.10	0.49
4:O:29:GLN:OE1	4:O:89:MET:HE1	2.12	0.49
7:Y:128:ALA:CB	7:Y:140:LEU:HD11	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Z:76:GLU:O	7:Z:76:GLU:CD	2.55	0.49
1:B:73:GLU:HG3	1:B:130:ALA:HA	1.94	0.49
1:B:212:ASN:O	1:B:215:VAL:CG2	2.54	0.49
2:C:211:LEU:HD12	2:C:211:LEU:O	2.12	0.49
2:C:267:TYR:CD2	2:C:267:TYR:N	2.80	0.49
2:C:274:ARG:HG3	2:C:285:LEU:HB3	1.94	0.49
2:C:570:PRO:HD2	2:C:635:THR:CG2	2.42	0.49
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.93	0.49
2:C:886:LEU:CD1	3:D:951:ILE:HD12	2.43	0.49
3:D:729:HIS:HB3	3:D:732:VAL:HG22	1.94	0.49
3:D:925:GLU:CD	4:E:6:ILE:HG22	2.37	0.49
3:D:1192:LEU:HB3	3:D:1345:GLU:OE2	2.13	0.49
2:H:269:LEU:C	2:H:269:LEU:HD23	2.38	0.49
2:H:443:THR:HG21	3:I:1078:ARG:HD2	1.94	0.49
2:H:662:GLU:O	2:H:662:GLU:OE1	2.30	0.49
2:H:756:VAL:HB	2:H:790:LEU:HB3	1.95	0.49
2:H:896:PHE:O	2:H:924:VAL:HG11	2.12	0.49
2:H:931:GLY:C	2:H:933:GLY:N	2.70	0.49
2:H:958:THR:CG2	2:H:961:GLU:HG3	2.35	0.49
3:I:6:ARG:NH2	3:I:1482:ARG:NH2	2.59	0.49
3:I:606:ILE:O	3:I:606:ILE:HG13	2.12	0.49
3:I:947:ILE:HD12	3:I:947:ILE:C	2.36	0.49
3:I:1192:LEU:HB3	3:I:1345:GLU:OE2	2.12	0.49
2:M:492:ASP:OD2	2:M:518:LYS:HG3	2.12	0.49
2:M:1095:LEU:HD11	2:M:1097:LEU:HD22	1.93	0.49
3:N:13:ALA:CB	3:N:18:ILE:HD11	2.42	0.49
3:N:409:VAL:O	3:N:410:SER:OG	2.23	0.49
3:N:804:LEU:CB	3:N:830:ALA:O	2.60	0.49
3:N:834:THR:HB	3:N:838:ARG:HD3	1.94	0.49
3:N:930:LEU:O	3:N:933:ALA:HB3	2.12	0.49
3:N:1192:LEU:HB3	3:N:1345:GLU:OE2	2.12	0.49
3:N:1288:GLU:C	3:N:1307:LYS:HG2	2.36	0.49
4:O:73:LEU:H	4:O:73:LEU:HD12	1.77	0.49
1:A:101:LEU:HG	1:A:102:LYS:N	2.25	0.49
1:B:85:LEU:HA	1:B:124:ASN:HD22	1.77	0.49
2:C:6:PHE:CE1	2:C:909:ALA:HB2	2.47	0.49
2:C:479:VAL:HG11	2:C:503:LEU:HD11	1.93	0.49
2:C:535:SER:O	2:C:538:GLN:HG2	2.12	0.49
2:C:1054:THR:O	2:C:1056:LYS:N	2.46	0.49
3:D:179:VAL:HG11	3:D:185:VAL:CG2	2.42	0.49
3:D:685:ASP:O	3:D:689:ASP:OD1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:930:LEU:O	3:D:933:ALA:HB3	2.12	0.49
3:D:999:THR:CG2	3:D:1000:THR:N	2.75	0.49
1:G:179:PHE:N	1:G:179:PHE:CD2	2.79	0.49
2:H:178:PRO:C	2:H:180:GLY:N	2.70	0.49
2:H:395:LYS:O	2:H:397:GLU:N	2.45	0.49
2:H:524:VAL:CG1	2:H:525:SER:H	2.25	0.49
2:H:544:THR:C	2:H:546:LEU:H	2.20	0.49
2:H:565:GLN:NE2	2:H:842:ARG:CG	2.65	0.49
2:H:650:ARG:HG2	2:H:653:ASP:OD2	2.13	0.49
2:H:1074:GLU:CG	2:H:1075:ASP:H	2.05	0.49
3:I:87:ARG:O	3:I:88:TYR:HD2	1.87	0.49
3:I:135:LEU:HD22	3:I:149:LYS:C	2.36	0.49
3:I:205:TYR:HB2	3:I:393:ILE:CG1	2.39	0.49
3:I:514:LEU:HD12	3:I:578:VAL:HG11	1.92	0.49
3:I:705:ALA:HB3	3:I:706:PRO:HD3	1.94	0.49
3:I:765:SER:OG	3:I:766:ALA:N	2.46	0.49
3:I:1384:PRO:HG2	3:I:1388:ARG:CZ	2.41	0.49
3:I:1472:ILE:H	3:I:1472:ILE:CD1	2.15	0.49
4:J:69:LEU:HD23	4:J:70:THR:CG2	2.41	0.49
1:L:88:ARG:HB2	1:L:123:MET:SD	2.52	0.49
2:M:662:GLU:O	2:M:662:GLU:OE1	2.30	0.49
2:M:684:PHE:HB3	3:N:633:VAL:HG21	1.94	0.49
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.41	0.49
3:N:142:LEU:HD22	3:N:145:VAL:CA	2.41	0.49
3:N:441:ARG:HD2	3:N:445:ARG:HH22	1.75	0.49
3:N:646:LYS:HG3	3:N:647:ARG:N	2.27	0.49
3:N:728:LEU:HD22	3:N:745:MET:SD	2.52	0.49
3:N:820:GLU:CD	3:N:820:GLU:C	2.80	0.49
3:N:1440:PHE:O	3:N:1441:GLN:O	2.30	0.49
6:Q:13:G:H2'	6:Q:14:C:C6	2.47	0.49
2:C:182:VAL:CG1	2:C:193:LEU:HB2	2.42	0.49
2:C:290:LEU:HD13	2:C:303:PHE:HE1	1.76	0.49
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.42	0.49
2:C:848:VAL:HG12	2:C:849:VAL:N	2.26	0.49
2:C:860:HIS:HA	2:C:866:PRO:HA	1.94	0.49
2:C:876:VAL:H	2:C:877:PRO:HD2	1.77	0.49
3:D:52:PRO:O	3:D:86:ARG:HG3	2.12	0.49
3:D:111:LYS:HG2	3:D:1452:ILE:HD11	1.93	0.49
3:D:116:LEU:CD2	3:D:118:LEU:CD1	2.90	0.49
3:D:508:ARG:HB3	3:D:509:PRO:HD2	1.95	0.49
3:D:562:ALA:HB3	2:H:226:VAL:HG12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:700:VAL:HG12	3:D:749:VAL:HG13	1.95	0.49
3:D:765:SER:OG	3:D:766:ALA:N	2.46	0.49
3:D:834:THR:HB	3:D:838:ARG:HD3	1.95	0.49
3:D:926:LYS:O	3:D:929:ARG:HB2	2.11	0.49
4:E:48:MET:HG3	4:E:54:LEU:HG	1.94	0.49
1:G:15:THR:O	1:G:15:THR:HG23	2.13	0.49
1:G:70:GLY:O	1:G:132:LEU:HA	2.12	0.49
2:H:391:LEU:HD23	2:H:391:LEU:C	2.37	0.49
2:H:728:HIS:O	2:H:729:LEU:HD22	2.12	0.49
3:I:452:ILE:HD13	3:I:452:ILE:C	2.37	0.49
3:I:572:ARG:O	3:I:573:MET:C	2.56	0.49
3:I:584:ASN:HD21	3:I:590:PRO:HD2	1.73	0.49
4:J:3:GLU:OE1	4:J:4:PRO:HD3	2.13	0.49
1:L:57:TYR:C	1:L:58:ILE:HD12	2.37	0.49
2:M:328:LEU:N	2:M:328:LEU:CD1	2.74	0.49
2:M:449:ILE:C	2:M:451:LEU:H	2.19	0.49
2:M:679:PHE:C	3:N:943:THR:CG2	2.85	0.49
3:N:47:GLU:O	3:N:51:GLY:N	2.46	0.49
3:N:50:PHE:CB	3:N:522:PRO:CD	2.91	0.49
3:N:436:GLU:OE1	3:N:447:VAL:HG13	2.12	0.49
3:N:664:LYS:O	3:N:666:ILE:N	2.46	0.49
3:N:835:SER:O	3:N:837:GLY:N	2.46	0.49
4:O:24:ALA:O	4:O:25:LYS:C	2.55	0.49
1:A:32:PHE:CZ	1:B:47:SER:HB2	2.48	0.49
2:C:89:THR:HG21	2:C:383:ARG:HH22	1.74	0.49
2:C:261:ILE:HD12	2:C:262:ALA:H	1.77	0.49
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.43	0.49
2:C:359:MET:SD	2:C:359:MET:O	2.71	0.49
2:C:442:GLU:CD	2:C:543:ASN:HD22	2.20	0.49
2:C:806:LEU:HB2	2:C:822:VAL:HG22	1.95	0.49
3:D:368:VAL:HB	3:D:377:VAL:HB	1.94	0.49
3:D:412:GLY:HA2	3:D:434:ARG:HD3	1.93	0.49
3:D:1008:PHE:CE2	3:D:1035:ILE:HG21	2.47	0.49
1:F:101:LEU:HG	1:F:102:LYS:N	2.25	0.49
1:G:185:ARG:NH1	3:I:692:GLU:HG2	2.12	0.49
2:H:6:PHE:CZ	2:H:917:LEU:CD1	2.96	0.49
2:H:6:PHE:CB	2:H:909:ALA:HA	2.41	0.49
2:H:553:ASP:OD2	2:H:883:GLY:N	2.44	0.49
2:H:966:LEU:HD11	2:H:986:PRO:HG2	1.94	0.49
2:H:987:ILE:HG23	3:I:948:THR:CG2	2.23	0.49
3:I:646:LYS:HG3	3:I:647:ARG:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:782:SER:H	3:I:785:ILE:HD13	1.77	0.49
3:I:930:LEU:O	3:I:933:ALA:HB3	2.12	0.49
3:I:1029:ARG:HH21	7:Y:41:ASP:CG	2.21	0.49
4:J:47:LYS:N	4:J:54:LEU:HD13	2.27	0.49
2:M:101:ILE:CG1	2:M:108:ILE:HD11	2.41	0.49
2:M:625:LEU:O	2:M:626:ARG:C	2.55	0.49
2:M:799:ILE:HD13	2:M:799:ILE:N	2.27	0.49
2:M:931:GLY:C	2:M:933:GLY:N	2.70	0.49
3:N:126:VAL:O	3:N:130:SER:CB	2.60	0.49
3:N:456:MET:CE	3:N:568:ARG:HH21	2.22	0.49
3:N:972:LEU:C	3:N:976:GLN:HE21	2.20	0.49
3:N:1252:ILE:CG1	3:N:1253:THR:N	2.75	0.49
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.13	0.49
4:O:38:THR:OG1	4:O:39:VAL:N	2.42	0.49
5:R:20:DG:N2	6:S:11:C:H42	2.10	0.49
1:A:22:GLU:OE2	1:A:198:ARG:CB	2.60	0.49
2:C:203:ASP:OD1	2:C:205:GLU:HG2	2.13	0.49
2:C:224:GLU:HG3	2:C:227:PHE:HB2	1.94	0.49
2:C:338:GLU:O	2:C:341:THR:HG22	2.12	0.49
2:C:650:ARG:HG2	2:C:653:ASP:OD2	2.13	0.49
3:D:160:GLU:HG2	3:D:165:LYS:CG	2.41	0.49
3:D:511:TRP:C	3:D:513:ILE:H	2.20	0.49
3:D:620:GLY:O	3:D:621:LYS:CG	2.54	0.49
3:D:646:LYS:HG3	3:D:647:ARG:N	2.26	0.49
3:D:820:GLU:C	3:D:820:GLU:CD	2.79	0.49
3:D:1137:ARG:HH11	3:D:1137:ARG:CB	2.21	0.49
3:D:1168:MET:HE3	3:D:1168:MET:CA	2.42	0.49
3:D:1189:ARG:HD2	3:D:1204:CYS:SG	2.52	0.49
3:D:1287:GLU:C	3:D:1289:LYS:H	2.19	0.49
3:D:1381:VAL:O	3:D:1389:LEU:O	2.31	0.49
3:D:1485:GLN:O	4:E:75:PHE:HA	2.13	0.49
1:G:112:ARG:CD	1:G:125:PRO:CB	2.79	0.49
2:H:549:PHE:CD2	2:H:886:LEU:HB3	2.47	0.49
2:H:691:SER:HB2	2:H:858:MET:SD	2.52	0.49
2:H:882:LEU:HD12	3:I:1061:PHE:HB3	1.94	0.49
3:I:50:PHE:C	3:I:89:ARG:CG	2.84	0.49
3:I:481:MET:SD	3:I:496:LEU:HD23	2.53	0.49
3:I:508:ARG:HB3	3:I:509:PRO:HD2	1.95	0.49
3:I:1205:TYR:HE1	3:I:1370:ILE:HD11	1.76	0.49
3:I:1264:GLU:OE2	3:I:1424:VAL:HG12	2.10	0.49
1:K:89:PHE:HD1	1:K:120:VAL:CG2	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:15:THR:O	1:L:15:THR:HG23	2.13	0.49
2:M:94:LEU:HD12	2:M:95:TYR:N	2.28	0.49
3:N:795:VAL:HG23	3:N:879:ARG:HH12	1.77	0.49
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.95	0.49
2:C:15:LEU:H	2:C:15:LEU:CD1	2.23	0.49
2:C:584:GLU:CD	2:C:584:GLU:H	2.21	0.49
2:C:682:TYR:CE1	2:C:851:LYS:HD3	2.47	0.49
2:C:831:ARG:HH12	2:C:1002:GLU:HB2	1.77	0.49
2:C:861:LEU:HD21	2:C:925:TYR:CE2	2.48	0.49
3:D:404:GLU:N	3:D:423:ASP:OD2	2.42	0.49
3:D:1021:TYR:CE2	3:D:1025:GLN:CG	2.96	0.49
2:H:226:VAL:HG13	2:H:227:PHE:N	2.28	0.49
2:H:433:THR:HG21	2:H:488:ALA:HB1	1.95	0.49
2:H:593:ALA:HB1	2:H:659:PRO:HD2	1.95	0.49
2:H:684:PHE:CB	3:I:633:VAL:HG21	2.43	0.49
2:H:685:GLU:OE2	3:I:783:ARG:HD2	2.12	0.49
2:H:726:ILE:CG1	2:H:734:LEU:HD11	2.36	0.49
2:H:861:LEU:HD21	2:H:925:TYR:CE2	2.48	0.49
2:H:1036:GLU:O	2:H:1039:ALA:HB3	2.12	0.49
3:I:143:ASN:HB3	3:I:161:LEU:HD13	1.94	0.49
3:I:205:TYR:HD1	3:I:390:PRO:CB	2.25	0.49
3:I:479:GLU:O	3:I:483:HIS:ND1	2.42	0.49
3:I:546:ARG:HG2	3:I:546:ARG:HH11	1.78	0.49
3:I:975:GLU:O	3:I:979:GLU:HG3	2.12	0.49
3:I:999:THR:CG2	3:I:1000:THR:N	2.75	0.49
3:I:1147:ARG:HB3	3:I:1188:VAL:CG2	2.41	0.49
4:J:17:TYR:O	4:J:21:VAL:HG23	2.12	0.49
1:L:42:ARG:HH11	1:L:42:ARG:CG	2.24	0.49
1:L:73:GLU:HG3	1:L:130:ALA:HA	1.95	0.49
1:L:185:ARG:NH1	3:N:692:GLU:HG2	2.22	0.49
2:M:20:GLU:OE2	2:M:460:ARG:HB2	2.13	0.49
2:M:31:GLN:HG2	2:M:34:VAL:CG2	2.43	0.49
2:M:544:THR:C	2:M:546:LEU:H	2.20	0.49
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.94	0.49
3:N:28:LYS:CG	3:N:29:PRO:HD2	2.41	0.49
3:N:165:LYS:NZ	3:N:199:LEU:HB3	2.27	0.49
3:N:355:VAL:HG13	3:N:356:PRO:HD2	1.95	0.49
3:N:508:ARG:HB3	3:N:509:PRO:HD2	1.94	0.49
3:N:806:PHE:C	3:N:808:THR:N	2.70	0.49
3:N:835:SER:C	3:N:837:GLY:N	2.69	0.49
3:N:896:ALA:O	3:N:900:ILE:HG23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1297:GLU:OE1	3:N:1299:PHE:HE2	1.95	0.49
5:R:17:DG:H2''	5:R:18:DC:C5'	2.40	0.49
7:X:30:THR:HG22	7:X:31:LYS:N	2.28	0.49
7:Y:28:GLU:O	7:Y:32:ILE:HD13	2.13	0.49
1:A:25:LEU:HD22	1:B:225:PHE:CE2	2.47	0.49
1:A:111:ALA:HB3	1:A:124:ASN:O	2.13	0.49
1:B:132:LEU:HD11	1:B:138:LEU:HD13	1.94	0.49
2:C:36:PRO:HB2	2:C:70:GLU:HG2	1.93	0.49
2:C:182:VAL:CB	2:C:193:LEU:CB	2.91	0.49
2:C:208:ALA:HB2	2:C:222:MET:CG	2.42	0.49
2:C:1085:PHE:CD1	2:C:1085:PHE:C	2.91	0.49
3:D:102:ILE:CD1	3:D:586:ARG:HG3	2.43	0.49
3:D:105:VAL:HG21	3:D:128:TYR:CE2	2.48	0.49
3:D:481:MET:SD	3:D:496:LEU:HD23	2.52	0.49
3:D:704:ARG:NH1	3:D:743:ASP:HB3	2.27	0.49
3:D:835:SER:O	3:D:837:GLY:N	2.46	0.49
3:D:896:ALA:O	3:D:900:ILE:HG23	2.12	0.49
1:F:25:LEU:HD23	1:F:28:LEU:HD11	1.95	0.49
1:G:76:VAL:CG1	3:I:872:ARG:NH1	2.76	0.49
2:H:610:ARG:HH11	2:H:610:ARG:HG3	1.78	0.49
2:H:690:ILE:HG23	2:H:852:ILE:HG23	1.95	0.49
2:H:701:THR:CG2	2:H:832:LYS:HA	2.43	0.49
2:H:806:LEU:HB2	2:H:822:VAL:HG22	1.95	0.49
2:H:1075:ASP:HB2	4:J:31:LEU:CD1	2.43	0.49
2:H:1085:PHE:CD1	2:H:1085:PHE:C	2.91	0.49
3:I:521:PRO:HB2	3:I:524:LEU:HD13	1.94	0.49
3:I:1155:VAL:CG1	3:I:1177:ALA:CB	2.91	0.49
3:I:1434:TRP:CZ3	3:I:1457:ASP:N	2.81	0.49
1:K:111:ALA:HB3	1:K:124:ASN:O	2.12	0.49
2:M:40:GLU:O	2:M:45:GLN:OE1	2.31	0.49
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.48	0.49
2:M:83:CYS:SG	2:M:90:TYR:HB2	2.53	0.49
2:M:109:LYS:HZ3	2:M:367:LEU:C	2.21	0.49
2:M:368:THR:CB	2:M:369:PRO:HD2	2.35	0.49
2:M:432:ARG:NH2	3:N:1047:LYS:CD	2.46	0.49
2:M:612:VAL:HG22	2:M:622:GLU:HG3	1.94	0.49
2:M:1059:ASP:OD1	2:M:1061:GLU:HB3	2.13	0.49
2:M:1085:PHE:C	2:M:1085:PHE:CD1	2.91	0.49
3:N:454:ALA:C	3:N:455:ARG:HG2	2.37	0.49
3:N:982:PHE:CE1	7:Z:100:LEU:HD21	2.48	0.49
3:N:991:GLN:OE1	7:Z:111:ASN:ND2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1117:TYR:HE1	3:N:1119:SER:HG	1.61	0.49
3:N:1160:LEU:HD23	3:N:1164:ARG:NH1	2.27	0.49
3:N:1434:TRP:CD1	3:N:1434:TRP:C	2.90	0.49
7:Y:111:ASN:ND2	7:Y:113:LEU:HD12	2.28	0.49
1:A:12:THR:OG1	1:A:24:VAL:HB	2.12	0.49
2:C:204:GLN:NE2	2:C:228:ALA:HB1	2.28	0.49
2:C:217:LEU:O	2:C:218:VAL:C	2.56	0.49
2:C:358:ARG:HH12	2:C:374:ASN:CG	2.21	0.49
2:C:662:GLU:O	2:C:662:GLU:OE1	2.30	0.49
2:C:885:ILE:CG2	3:D:950:GLY:HA2	2.43	0.49
2:C:923:GLU:O	2:C:927:GLY:HA3	2.12	0.49
2:C:1040:LEU:O	2:C:1041:GLU:C	2.55	0.49
3:D:350:HIS:CD2	3:D:371:ILE:HG12	2.48	0.49
3:D:397:LYS:HE2	3:D:448:GLU:OE1	2.13	0.49
3:D:813:LEU:CD1	3:D:814:ALA:N	2.72	0.49
1:G:87:VAL:CG2	1:G:144:VAL:HG11	2.42	0.49
2:H:104:ASP:O	2:H:106:GLY:N	2.46	0.49
2:H:127:PHE:O	2:H:133:ASP:HA	2.12	0.49
2:H:442:GLU:CD	2:H:543:ASN:HD22	2.21	0.49
2:H:447:ALA:O	2:H:448:ASN:CB	2.60	0.49
2:H:602:GLU:CG	2:H:603:VAL:N	2.76	0.49
2:H:861:LEU:HD23	2:H:863:ASP:N	2.24	0.49
3:I:407:VAL:HA	3:I:422:ALA:CA	2.39	0.49
3:I:593:ASN:ND2	3:I:594:PRO:HD2	2.28	0.49
3:I:787:LEU:HD12	3:I:787:LEU:C	2.36	0.49
4:J:37:ASN:HA	4:J:93:TYR:CE2	2.48	0.49
1:L:62:LEU:H	1:L:62:LEU:CD1	2.19	0.49
2:M:93:PRO:HB3	2:M:117:HIS:CE1	2.48	0.49
2:M:217:LEU:CG	2:M:311:PHE:CD1	2.95	0.49
2:M:281:LEU:HA	2:M:309:TYR:CE2	2.48	0.49
2:M:342:ASP:O	2:M:345:ARG:HG2	2.12	0.49
2:M:361:MET:O	2:M:361:MET:HG2	2.11	0.49
2:M:603:VAL:HG12	2:M:604:ALA:N	2.28	0.49
2:M:691:SER:O	2:M:692:GLU:C	2.55	0.49
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.47	0.49
2:M:946:ARG:HD3	2:M:984:GLU:HB2	1.95	0.49
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.13	0.49
3:N:81:THR:HG21	3:N:85:VAL:CG1	2.41	0.49
3:N:133:ILE:CG2	3:N:455:ARG:O	2.61	0.49
3:N:205:TYR:HD1	3:N:390:PRO:HG3	1.78	0.49
7:X:147:ARG:NH2	7:X:149:PHE:HZ	2.10	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:Y:82:VAL:HG22	7:Y:133:ARG:HH21	1.76	0.49
2:C:335:THR:O	2:C:336:VAL:C	2.56	0.49
2:C:878:SER:HB3	3:D:1029:ARG:CZ	2.41	0.49
2:C:911:GLU:OE2	3:D:1062:ARG:CZ	2.61	0.49
3:D:36:THR:HB	3:D:38:LYS:HB2	1.95	0.49
3:D:102:ILE:HD11	3:D:106:LYS:HB2	1.95	0.49
3:D:835:SER:C	3:D:837:GLY:N	2.69	0.49
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.95	0.49
3:D:1102:THR:C	3:D:1105:ILE:HD13	2.38	0.49
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.28	0.49
1:F:70:GLY:N	2:H:607:ASP:OD1	2.30	0.49
1:F:111:ALA:HB3	1:F:124:ASN:O	2.13	0.49
1:G:80:LEU:HD23	3:I:867:ARG:CG	2.43	0.49
1:G:112:ARG:HG3	1:G:125:PRO:CB	2.43	0.49
2:H:380:ALA:O	2:H:384:GLU:HB2	2.12	0.49
2:H:503:LEU:HD23	2:H:507:ARG:C	2.38	0.49
2:H:662:GLU:OE1	2:H:663:ASN:HB2	2.13	0.49
3:I:112:ILE:HA	3:I:512:MET:HE1	1.95	0.49
3:I:457:GLY:O	3:I:458:ALA:C	2.54	0.49
3:I:615:ARG:CG	3:I:619:LEU:HD11	2.42	0.49
3:I:660:LYS:HZ1	3:I:660:LYS:CA	2.25	0.49
3:I:704:ARG:NH1	3:I:743:ASP:HB3	2.27	0.49
3:I:1295:GLU:HB3	3:I:1300:SER:HB3	1.95	0.49
3:I:1448:THR:O	3:I:1451:ALA:HB3	2.13	0.49
1:K:117:VAL:CG1	1:K:120:VAL:CG1	2.91	0.49
1:L:195:LEU:HD12	1:L:196:THR:N	2.28	0.49
2:M:282:GLY:C	2:M:283:ILE:CG1	2.85	0.49
2:M:535:SER:O	2:M:538:GLN:HG2	2.12	0.49
2:M:906:PHE:CE1	3:N:1067:VAL:HA	2.48	0.49
3:N:111:LYS:CD	3:N:1448:THR:HG22	2.43	0.49
3:N:351:MET:O	3:N:352:ASN:OD1	2.31	0.49
3:N:970:LYS:HE2	7:Z:113:LEU:CD2	2.39	0.49
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.95	0.49
1:A:14:ARG:HH21	2:C:934:PHE:HZ	1.61	0.48
1:B:143:ARG:HD3	1:B:158:ILE:HG21	1.95	0.48
2:C:682:TYR:CD1	3:D:635:PRO:HG2	2.48	0.48
3:D:431:VAL:HG12	3:D:432:TYR:N	2.27	0.48
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.94	0.48
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.95	0.48
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.13	0.48
3:D:1312:LEU:HD12	3:D:1327:ARG:NH2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:35:PHE:C	4:E:36:LYS:CE	2.84	0.48
4:E:41:GLU:N	4:E:42:PRO:CD	2.76	0.48
2:H:142:ARG:HD2	2:H:147:TYR:CE1	2.47	0.48
2:H:278:GLU:HA	2:H:283:ILE:HA	1.94	0.48
2:H:477:GLY:O	2:H:507:ARG:HA	2.13	0.48
2:H:478:VAL:HA	2:H:506:ASN:O	2.13	0.48
2:H:1019:GLN:OE1	3:I:621:LYS:CB	2.61	0.48
3:I:89:ARG:O	3:I:521:PRO:CB	2.60	0.48
3:I:1356:TYR:HD2	3:I:1361:VAL:HG11	1.76	0.48
1:K:41:ARG:HG3	1:K:177:VAL:CG1	2.43	0.48
2:M:6:PHE:CZ	2:M:901:TYR:HB3	2.46	0.48
2:M:258:TYR:OH	2:M:290:LEU:HD21	2.13	0.48
2:M:575:GLN:C	2:M:667:ALA:HB1	2.38	0.48
2:M:650:ARG:HG2	2:M:653:ASP:OD2	2.13	0.48
2:M:806:LEU:HB2	2:M:822:VAL:HG22	1.95	0.48
3:N:95:LEU:HA	3:N:551:ASN:OD1	2.13	0.48
3:N:100:ALA:CB	3:N:128:TYR:CZ	2.95	0.48
3:N:169:TYR:CE2	3:N:196:VAL:O	2.66	0.48
3:N:355:VAL:HG21	3:N:367:ILE:HG23	1.94	0.48
3:N:432:TYR:CB	3:N:450:TYR:CD2	2.96	0.48
3:N:525:ARG:O	3:N:525:ARG:HG2	2.12	0.48
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	1.93	0.48
3:N:1256:LEU:O	3:N:1259:VAL:N	2.46	0.48
3:N:1408:ILE:HD12	3:N:1408:ILE:H	1.76	0.48
7:X:83:ILE:HD13	7:X:89:VAL:HG21	1.96	0.48
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.48	0.48
2:C:185:LYS:HG2	2:C:190:LYS:HG3	1.87	0.48
2:C:212:GLY:C	2:C:214:TYR:N	2.62	0.48
2:C:432:ARG:HH22	3:D:1047:LYS:CD	2.24	0.48
2:C:501:THR:HG21	2:C:513:VAL:CG1	2.44	0.48
2:C:754:ILE:H	2:C:754:ILE:CD1	2.25	0.48
2:C:1036:GLU:HG3	3:D:707:THR:CB	2.43	0.48
3:D:415:VAL:HG12	3:D:416:ALA:N	2.28	0.48
3:D:796:ARG:HB2	3:D:828:LYS:HD3	1.95	0.48
3:D:907:GLU:N	3:D:910:SER:OG	2.46	0.48
3:D:1103:HIS:CD2	3:D:1463:LYS:HB2	2.48	0.48
3:D:1106:VAL:HG12	3:D:1107:VAL:H	1.78	0.48
1:F:69:PRO:O	1:F:71:VAL:HG23	2.13	0.48
2:H:1085:PHE:CE2	3:I:1468:LEU:CG	2.91	0.48
3:I:982:PHE:HE1	7:Y:100:LEU:HD21	1.78	0.48
3:I:1437:ALA:HB3	3:I:1446:VAL:CG1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:108:GLU:OE1	1:L:128:HIS:NE2	2.45	0.48
2:M:163:ILE:O	2:M:163:ILE:HG23	2.14	0.48
2:M:203:ASP:O	2:M:207:LEU:HB2	2.13	0.48
2:M:265:ARG:HD3	2:M:267:TYR:CG	2.48	0.48
2:M:432:ARG:HD3	3:N:1048:PRO:HG2	1.94	0.48
2:M:437:ARG:HH22	2:M:488:ALA:HA	1.70	0.48
2:M:584:GLU:CD	2:M:584:GLU:H	2.21	0.48
3:N:36:THR:HB	3:N:38:LYS:HB2	1.95	0.48
3:N:704:ARG:NH1	3:N:743:ASP:HB3	2.27	0.48
3:N:729:HIS:HB3	3:N:732:VAL:HG22	1.94	0.48
3:N:841:TYR:HB2	3:N:864:VAL:HG11	1.96	0.48
3:N:1042:ARG:CB	3:N:1042:ARG:HH11	2.26	0.48
3:N:1264:GLU:HG2	3:N:1266:ARG:NH2	2.28	0.48
1:A:8:ALA:O	1:A:9:PRO:C	2.56	0.48
1:B:58:ILE:HG21	1:B:68:ILE:CD1	2.43	0.48
1:B:152:PRO:CG	3:D:857:ILE:HD11	2.42	0.48
2:C:140:ILE:HG23	2:C:410:ILE:CG2	2.43	0.48
2:C:182:VAL:CG1	2:C:193:LEU:CB	2.90	0.48
2:C:879:ARG:HH22	7:X:42:ASP:HB2	1.76	0.48
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.13	0.48
3:D:33:ASN:HD21	3:D:35:ARG:CZ	2.26	0.48
3:D:911:LEU:HD23	3:D:934:LEU:HD13	1.94	0.48
3:D:1029:ARG:HH21	7:X:42:ASP:HB3	1.78	0.48
1:F:33:GLY:O	1:F:195:LEU:HD13	2.13	0.48
1:F:35:THR:HG21	1:G:43:ILE:CD1	2.43	0.48
1:F:189:ARG:CG	1:F:189:ARG:NH1	2.72	0.48
1:G:195:LEU:HD12	1:G:196:THR:N	2.28	0.48
2:H:50:GLU:HG3	2:H:266:ARG:NE	2.28	0.48
2:H:211:LEU:HG	2:H:218:VAL:HG22	1.95	0.48
2:H:544:THR:O	2:H:547:ILE:HD12	2.12	0.48
2:H:928:LYS:HZ3	2:H:932:GLU:HG3	1.77	0.48
2:H:1085:PHE:CD2	3:I:1468:LEU:HA	2.48	0.48
3:I:182:GLY:N	3:I:441:ARG:HD3	2.28	0.48
3:I:872:ARG:CZ	1:L:162:ILE:HG21	2.42	0.48
2:M:11:GLU:HG2	2:M:537:LYS:HZ1	1.79	0.48
2:M:54:ILE:O	2:M:54:ILE:CG2	2.60	0.48
2:M:86:LYS:O	2:M:813:VAL:HG23	2.14	0.48
2:M:118:ILE:HD12	2:M:119:PRO:O	2.12	0.48
2:M:154:ARG:NH1	2:M:178:PRO:HG3	2.28	0.48
2:M:258:TYR:OH	2:M:290:LEU:CD2	2.62	0.48
2:M:334:ARG:HG2	2:M:338:GLU:OE2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:442:GLU:CD	2:M:543:ASN:HD22	2.21	0.48
2:M:544:THR:O	2:M:547:ILE:HD12	2.12	0.48
2:M:549:PHE:HB3	2:M:552:HIS:HD2	1.78	0.48
3:N:695:ILE:HD11	3:N:718:PRO:HB2	1.95	0.48
3:N:1384:PRO:CB	3:N:1388:ARG:HH12	2.26	0.48
4:O:41:GLU:HG2	4:O:42:PRO:N	2.27	0.48
7:Z:76:GLU:O	7:Z:76:GLU:OE2	2.32	0.48
1:A:117:VAL:CG1	1:A:120:VAL:CG1	2.91	0.48
1:B:122:ILE:N	1:B:122:ILE:CD1	2.70	0.48
1:B:179:PHE:N	1:B:179:PHE:CD2	2.79	0.48
1:B:195:LEU:HD12	1:B:196:THR:N	2.28	0.48
2:C:165:LEU:CB	2:C:265:ARG:HH12	2.23	0.48
2:C:208:ALA:HB2	2:C:222:MET:HG3	1.95	0.48
2:C:217:LEU:C	2:C:219:GLN:N	2.70	0.48
2:C:265:ARG:HG2	2:C:267:TYR:H	1.78	0.48
2:C:662:GLU:OE1	2:C:663:ASN:HB2	2.13	0.48
2:C:756:VAL:HB	2:C:790:LEU:HB3	1.95	0.48
2:C:1046:ALA:HB2	3:D:1476:THR:HB	1.94	0.48
3:D:1263:PHE:HB3	3:D:1424:VAL:HG11	1.96	0.48
3:D:1434:TRP:CE2	3:D:1435:LEU:HD12	2.48	0.48
2:H:326:ASP:O	2:H:328:LEU:HD12	2.13	0.48
2:H:379:GLU:O	2:H:383:ARG:HB3	2.14	0.48
2:H:405:ARG:HD2	2:H:442:GLU:OE1	2.14	0.48
2:H:591:SER:O	2:H:592:LEU:HB2	2.13	0.48
2:H:998:TYR:O	2:H:998:TYR:CG	2.66	0.48
3:I:41:ARG:HD2	3:I:41:ARG:C	2.38	0.48
3:I:102:ILE:HD11	3:I:106:LYS:HB2	1.95	0.48
3:I:135:LEU:HD22	3:I:149:LYS:O	2.13	0.48
3:I:473:LEU:HA	3:I:476:GLU:HB2	1.96	0.48
3:I:544:TYR:O	3:I:548:ILE:HG12	2.12	0.48
3:I:617:ASN:HB3	3:I:1467:ILE:HA	1.95	0.48
3:I:882:PHE:HE1	3:I:934:LEU:HD21	1.77	0.48
3:I:896:ALA:O	3:I:900:ILE:HG23	2.12	0.48
3:I:1312:LEU:HD12	3:I:1327:ARG:NH2	2.28	0.48
4:J:26:ARG:HE	4:J:30:LEU:HD11	1.78	0.48
1:L:156:HIS:CE1	1:L:158:ILE:HG12	2.48	0.48
2:M:77:PRO:CD	2:M:91:GLN:O	2.61	0.48
2:M:317:VAL:C	2:M:319:GLY:H	2.19	0.48
2:M:435:TYR:HA	3:N:1071:PHE:CE2	2.48	0.48
2:M:794:PRO:HG2	2:M:1025:ALA:CA	2.40	0.48
2:M:1086:ARG:HH22	2:M:1111:ILE:HD11	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:102:ILE:HG21	3:N:583:ASP:HB3	1.95	0.48
3:N:148:GLU:CG	3:N:151:GLN:HB3	2.41	0.48
3:N:804:LEU:HD23	3:N:804:LEU:H	1.78	0.48
3:N:911:LEU:HD23	3:N:934:LEU:HD13	1.94	0.48
3:N:1452:ILE:HD12	3:N:1452:ILE:N	2.29	0.48
4:O:41:GLU:N	4:O:42:PRO:CD	2.76	0.48
1:B:221:HIS:HA	1:B:224:TYR:HD2	1.77	0.48
2:C:26:TYR:CE2	2:C:127:PHE:CZ	3.02	0.48
2:C:85:GLU:O	2:C:824:ARG:NH2	2.47	0.48
2:C:104:ASP:O	2:C:106:GLY:N	2.46	0.48
2:C:129:ILE:N	2:C:129:ILE:CD1	2.76	0.48
2:C:185:LYS:HG2	2:C:190:LYS:CA	2.44	0.48
2:C:270:GLY:O	2:C:274:ARG:HB3	2.13	0.48
2:C:322:VAL:HG23	2:C:322:VAL:O	2.13	0.48
2:C:326:ASP:OD2	2:C:426:ASP:OD1	2.32	0.48
2:C:640:ARG:NH1	2:C:640:ARG:HG2	2.29	0.48
2:C:794:PRO:HD2	2:C:1024:LYS:O	2.13	0.48
2:C:998:TYR:CG	2:C:998:TYR:O	2.66	0.48
2:C:1014:SER:HB2	2:C:1021:LEU:CD1	2.43	0.48
3:D:415:VAL:HG13	3:D:419:ASP:HB2	1.94	0.48
3:D:728:LEU:HD22	3:D:745:MET:SD	2.52	0.48
3:D:820:GLU:HG3	3:D:836:VAL:HG21	1.95	0.48
3:D:1412:LYS:HE2	3:D:1414:PRO:HG3	1.96	0.48
2:H:42:VAL:O	2:H:43:GLY:C	2.56	0.48
2:H:69:LEU:HG	2:H:97:ARG:O	2.14	0.48
2:H:79:PRO:HG2	2:H:82:GLU:CG	2.43	0.48
2:H:508:ILE:HG22	2:H:509:ALA:H	1.78	0.48
2:H:549:PHE:HB3	2:H:552:HIS:HD2	1.78	0.48
2:H:557:ARG:HH11	2:H:557:ARG:HG3	1.79	0.48
2:H:583:LEU:O	2:H:587:VAL:HG23	2.14	0.48
2:H:679:PHE:HB2	2:H:683:ASN:ND2	2.23	0.48
2:H:689:VAL:HG11	2:H:853:LEU:HD22	1.95	0.48
2:H:840:ALA:CB	2:H:846:LYS:HA	2.43	0.48
3:I:107:ASP:OD1	3:I:1444:THR:CG2	2.53	0.48
3:I:202:VAL:HB	3:I:396:VAL:CG2	2.43	0.48
3:I:621:LYS:HD3	3:I:621:LYS:HA	1.38	0.48
3:I:783:ARG:CZ	3:I:1029:ARG:NH2	2.76	0.48
3:I:925:GLU:CD	4:J:6:ILE:HG22	2.38	0.48
3:I:1084:THR:HA	3:I:1087:ARG:HH11	1.78	0.48
3:I:1440:PHE:O	3:I:1441:GLN:O	2.32	0.48
1:L:77:GLU:HA	1:L:80:LEU:HD22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:78:ILE:O	1:L:82:LEU:HG	2.13	0.48
1:L:221:HIS:HA	1:L:224:TYR:HD2	1.77	0.48
2:M:708:TYR:CE2	2:M:793:PRO:HD2	2.49	0.48
3:N:501:ALA:CB	3:N:1453:ALA:HB2	2.44	0.48
3:N:843:PHE:HB2	3:N:866:VAL:HG22	1.95	0.48
3:N:849:ALA:O	3:N:853:VAL:HG23	2.14	0.48
4:O:43:GLU:O	4:O:44:GLU:HB2	2.14	0.48
7:X:7:LEU:HD22	7:X:109:GLU:HB2	1.94	0.48
1:B:15:THR:HG23	1:B:15:THR:O	2.13	0.48
2:C:30:LEU:HB3	2:C:44:ILE:HG13	1.96	0.48
2:C:52:PHE:O	2:C:53:PRO:C	2.57	0.48
2:C:327:HIS:CE1	2:C:488:ALA:HB1	2.49	0.48
2:C:575:GLN:C	2:C:667:ALA:HB1	2.38	0.48
2:C:691:SER:O	2:C:692:GLU:C	2.55	0.48
2:C:1095:LEU:HD11	2:C:1097:LEU:HD22	1.93	0.48
3:D:525:ARG:O	3:D:525:ARG:HG2	2.12	0.48
3:D:687:VAL:HG13	3:D:688:TRP:N	2.28	0.48
3:D:1209:LEU:HD12	3:D:1215:VAL:HA	1.94	0.48
3:D:1257:PRO:O	3:D:1261:GLU:HB2	2.13	0.48
3:D:1273:VAL:O	3:D:1325:LEU:HB2	2.13	0.48
2:H:294:GLU:HG2	2:H:295:ASP:OD2	2.12	0.48
2:H:445:GLU:HG3	2:H:560:MET:HE3	1.94	0.48
2:H:625:LEU:O	2:H:626:ARG:C	2.56	0.48
2:H:724:ARG:O	2:H:724:ARG:HG2	2.14	0.48
2:H:1046:ALA:HA	3:I:1472:ILE:HD13	1.95	0.48
3:I:50:PHE:O	3:I:89:ARG:HG2	2.08	0.48
3:I:111:LYS:HG3	3:I:1452:ILE:HG12	1.95	0.48
3:I:434:ARG:HB2	3:I:449:SER:OG	2.14	0.48
3:I:546:ARG:HH12	3:I:550:ARG:HH21	1.60	0.48
3:I:606:ILE:CD1	3:I:613:ARG:HE	2.26	0.48
3:I:619:LEU:HD23	3:I:619:LEU:N	2.29	0.48
3:I:820:GLU:HG3	3:I:836:VAL:HG21	1.95	0.48
3:I:835:SER:O	3:I:837:GLY:N	2.46	0.48
3:I:1264:GLU:HG2	3:I:1266:ARG:NH2	2.28	0.48
3:I:1399:ASP:O	3:I:1403:LEU:HB2	2.14	0.48
2:M:52:PHE:O	2:M:53:PRO:C	2.56	0.48
2:M:840:ALA:CB	2:M:846:LYS:HA	2.44	0.48
3:N:645:PRO:HG3	3:N:725:SER:O	2.14	0.48
3:N:704:ARG:NH2	6:U:16:G:C2'	2.76	0.48
3:N:907:GLU:N	3:N:910:SER:OG	2.46	0.48
3:N:1164:ARG:NH2	3:N:1170:ASP:OD1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1213:ARG:HH12	4:O:10:PHE:C	2.22	0.48
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.13	0.48
7:X:16:MET:SD	7:X:69:LEU:HD13	2.54	0.48
1:B:80:LEU:HG	3:D:844:ALA:HA	1.96	0.48
2:C:232:GLU:CD	2:C:250:ARG:HH12	2.22	0.48
2:C:565:GLN:HE21	2:C:842:ARG:CG	2.07	0.48
2:C:617:ASP:OD1	2:C:618:GLY:N	2.46	0.48
2:C:1072:LYS:O	3:D:659:LYS:HE2	2.13	0.48
3:D:583:ASP:HB2	3:D:604:THR:OG1	2.13	0.48
3:D:786:ILE:O	3:D:787:LEU:C	2.55	0.48
1:F:42:ARG:NH1	1:G:34:VAL:CB	2.57	0.48
1:G:41:ARG:NH1	1:G:177:VAL:CG2	2.69	0.48
1:G:86:VAL:HG12	1:G:124:ASN:HB2	1.96	0.48
1:G:115:LEU:HA	1:G:116:PRO:HD3	1.71	0.48
1:G:212:ASN:O	1:G:215:VAL:CG2	2.54	0.48
2:H:309:TYR:OH	2:H:319:GLY:O	2.30	0.48
2:H:640:ARG:NH1	2:H:640:ARG:HG2	2.29	0.48
2:H:1013:TYR:HD1	2:H:1020:PRO:HA	1.79	0.48
3:I:501:ALA:HB1	3:I:1453:ALA:HB2	1.96	0.48
3:I:729:HIS:HB3	3:I:732:VAL:HG22	1.94	0.48
3:I:805:GLU:O	3:I:809:PRO:HD2	2.13	0.48
3:I:922:LEU:N	3:I:922:LEU:CD2	2.75	0.48
3:I:1034:GLN:O	3:I:1037:GLN:N	2.46	0.48
3:I:1273:VAL:O	3:I:1325:LEU:HB2	2.13	0.48
4:J:53:GLY:C	4:J:55:PHE:N	2.72	0.48
1:K:150:TYR:OH	2:M:695:LEU:HD22	2.13	0.48
2:M:322:VAL:HG23	2:M:322:VAL:O	2.13	0.48
3:N:102:ILE:HD11	3:N:106:LYS:HB2	1.95	0.48
3:N:786:ILE:O	3:N:787:LEU:C	2.55	0.48
3:N:813:LEU:CD1	3:N:814:ALA:N	2.72	0.48
3:N:1312:LEU:HD12	3:N:1327:ARG:NH2	2.28	0.48
3:N:1399:ASP:O	3:N:1403:LEU:HB2	2.14	0.48
3:N:1434:TRP:CD1	3:N:1435:LEU:N	2.82	0.48
4:O:57:ASP:H	4:O:58:PRO:HD3	1.79	0.48
1:B:41:ARG:CG	1:B:177:VAL:HG21	2.27	0.48
1:B:62:LEU:CD1	1:B:63:HIS:N	2.71	0.48
2:C:133:ASP:OD2	2:C:133:ASP:N	2.45	0.48
2:C:217:LEU:O	2:C:220:GLY:N	2.27	0.48
2:C:886:LEU:HD11	3:D:951:ILE:HD12	1.95	0.48
3:D:97:THR:HB	3:D:571:LYS:HE2	1.94	0.48
3:D:158:TYR:HD1	3:D:162:ARG:CB	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:210:ARG:N	3:D:389:GLU:HB2	2.29	0.48
3:D:563:PRO:HA	2:H:223:ASP:CB	2.34	0.48
3:D:1401:GLU:OE1	3:D:1415:VAL:HG11	2.14	0.48
3:D:1488:ASP:N	3:D:1488:ASP:OD1	2.46	0.48
1:F:89:PHE:HD1	1:F:120:VAL:CG2	2.25	0.48
1:F:128:HIS:HE1	1:F:131:THR:CG2	2.24	0.48
2:H:124:ASP:OD1	2:H:124:ASP:N	2.40	0.48
2:H:170:PRO:HG2	2:H:258:TYR:CD1	2.48	0.48
2:H:200:LEU:HD13	2:H:300:ASP:OD2	2.14	0.48
2:H:203:ASP:HB2	2:H:206:THR:HG22	1.96	0.48
2:H:332:ARG:HG3	2:H:465:GLY:CA	2.28	0.48
2:H:575:GLN:C	2:H:667:ALA:HB1	2.38	0.48
2:H:630:ARG:HD2	2:H:634:GLY:HA2	1.96	0.48
2:H:754:ILE:H	2:H:754:ILE:CD1	2.25	0.48
2:H:838:LYS:HD3	2:H:846:LYS:HZ3	1.79	0.48
3:I:28:LYS:N	3:I:42:ASP:O	2.45	0.48
3:I:645:PRO:HG3	3:I:725:SER:O	2.14	0.48
3:I:661:MET:CE	3:I:673:ALA:HB1	2.44	0.48
3:I:911:LEU:HD23	3:I:934:LEU:HD13	1.94	0.48
3:I:1042:ARG:CB	3:I:1042:ARG:HH11	2.26	0.48
3:I:1195:GLN:HG3	3:I:1196:THR:N	2.29	0.48
3:I:1434:TRP:CD1	3:I:1434:TRP:C	2.91	0.48
1:L:41:ARG:NH1	1:L:177:VAL:CG2	2.74	0.48
2:M:113:VAL:O	2:M:115:LEU:HD22	2.13	0.48
2:M:722:ILE:O	2:M:722:ILE:HG23	2.14	0.48
2:M:831:ARG:HD2	2:M:1000:MET:CE	2.44	0.48
3:N:701:LEU:HD13	3:N:748:HIS:HB2	1.96	0.48
3:N:811:GLU:O	3:N:815:ALA:HB3	2.14	0.48
3:N:1101:VAL:CG1	3:N:1424:VAL:HG23	2.40	0.48
3:N:1128:VAL:HG12	3:N:1129:THR:HG22	1.95	0.48
3:N:1434:TRP:NE1	3:N:1435:LEU:CD1	2.77	0.48
5:R:20:DG:H22	6:S:11:C:H42	1.60	0.48
2:C:182:VAL:HG11	2:C:193:LEU:HD23	1.92	0.48
2:C:267:TYR:CB	2:C:272:ALA:CB	2.79	0.48
2:C:462:ASP:CG	2:C:463:GLU:N	2.70	0.48
2:C:910:LYS:O	2:C:914:ILE:HG13	2.14	0.48
2:C:1085:PHE:CD2	3:D:1468:LEU:HD23	2.48	0.48
3:D:1144:LEU:HD11	3:D:1186:VAL:HG21	1.96	0.48
3:D:1176:LYS:O	3:D:1179:GLU:HB2	2.14	0.48
1:F:13:VAL:N	1:G:229:GLN:O	2.36	0.48
1:F:41:ARG:HG3	1:F:177:VAL:CG1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:110:LYS:HD3	1:G:126:ASP:HA	1.96	0.48
2:H:22:GLN:NE2	2:H:336:VAL:CG2	2.77	0.48
2:H:26:TYR:CE2	2:H:30:LEU:HD21	2.49	0.48
2:H:168:ARG:HG2	2:H:263:ASP:OD2	2.14	0.48
2:H:701:THR:HG22	2:H:832:LYS:HA	1.96	0.48
2:H:984:GLU:HG2	3:I:944:THR:O	2.13	0.48
3:I:199:LEU:HD23	3:I:200:ASP:N	2.29	0.48
3:I:511:TRP:C	3:I:513:ILE:H	2.20	0.48
3:I:700:VAL:HG12	3:I:749:VAL:HG13	1.95	0.48
3:I:701:LEU:HD13	3:I:748:HIS:HB2	1.96	0.48
3:I:957:PRO:HG3	3:I:1007:VAL:HA	1.95	0.48
3:I:1287:GLU:C	3:I:1289:LYS:H	2.22	0.48
1:K:221:HIS:NE2	1:L:32:PHE:CE2	2.81	0.48
2:M:96:ALA:O	2:M:98:LEU:CD1	2.61	0.48
2:M:100:LEU:HD12	2:M:100:LEU:C	2.39	0.48
2:M:230:ARG:HG2	2:M:230:ARG:NH1	2.28	0.48
2:M:313:LEU:HD13	2:M:321:GLU:CG	2.42	0.48
2:M:432:ARG:HD3	3:N:1048:PRO:CG	2.44	0.48
2:M:487:THR:HG22	2:M:489:THR:OG1	2.13	0.48
2:M:876:VAL:H	2:M:877:PRO:HD2	1.77	0.48
3:N:123:LEU:O	3:N:126:VAL:HB	2.13	0.48
3:N:141:ILE:HD13	3:N:142:LEU:C	2.38	0.48
3:N:163:TYR:HD2	3:N:163:TYR:HA	1.60	0.48
3:N:211:VAL:HG12	3:N:213:VAL:HG22	1.93	0.48
3:N:799:LYS:O	3:N:799:LYS:HG2	2.10	0.48
3:N:1176:LYS:O	3:N:1179:GLU:HB2	2.14	0.48
3:N:1252:ILE:HD11	3:N:1329:ALA:HB2	1.95	0.48
7:Y:6:LYS:HD3	7:Y:75:LEU:HD11	1.96	0.48
7:Z:128:ALA:CB	7:Z:140:LEU:HD11	2.44	0.48
2:C:51:THR:OG1	2:C:348:LEU:HB3	2.13	0.48
2:C:64:LEU:CD1	2:C:100:LEU:HD11	2.44	0.48
2:C:122:THR:CB	2:C:124:ASP:OD1	2.56	0.48
2:C:153:ALA:O	2:C:155:PRO:HD3	2.14	0.48
2:C:175:GLU:HG2	2:C:183:SER:OG	2.12	0.48
2:C:401:LEU:HD13	2:C:587:VAL:HG11	1.95	0.48
2:C:708:TYR:CE2	2:C:793:PRO:HD2	2.49	0.48
2:C:931:GLY:C	2:C:933:GLY:N	2.70	0.48
2:C:1084:SER:CB	3:D:617:ASN:HD21	2.27	0.48
2:C:1092:LEU:HD22	2:C:1099:VAL:HG23	1.96	0.48
3:D:28:LYS:HG3	3:D:29:PRO:HD2	1.93	0.48
3:D:695:ILE:O	3:D:696:HIS:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:783:ARG:HA	3:D:1028:ALA:HA	1.96	0.48
3:D:799:LYS:O	3:D:826:PRO:HD2	2.14	0.48
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	2.11	0.48
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.14	0.48
3:D:1486:VAL:HG23	4:E:29:GLN:OE1	2.14	0.48
1:G:52:ALA:HB1	1:G:170:VAL:H	1.78	0.48
1:G:57:TYR:CZ	1:G:59:GLU:HA	2.49	0.48
1:G:170:VAL:O	1:G:170:VAL:HG23	2.14	0.48
2:H:218:VAL:HG12	2:H:222:MET:HG3	1.94	0.48
2:H:304:LEU:O	2:H:308:ARG:N	2.46	0.48
2:H:1040:LEU:O	2:H:1041:GLU:C	2.56	0.48
3:I:160:GLU:CG	3:I:165:LYS:HB2	2.42	0.48
3:I:451:ASP:O	3:I:452:ILE:HG22	2.14	0.48
3:I:639:LEU:HD22	3:I:766:ALA:HA	1.96	0.48
1:L:44:LEU:HA	1:L:48:ILE:CD1	2.40	0.48
2:M:442:GLU:CG	2:M:454:SER:HB2	2.40	0.48
2:M:449:ILE:CD1	3:N:1081:GLY:HA3	2.44	0.48
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.95	0.48
2:M:697:ARG:CD	2:M:699:PHE:CD1	2.92	0.48
2:M:754:ILE:H	2:M:754:ILE:CD1	2.25	0.48
2:M:876:VAL:N	2:M:877:PRO:HD2	2.29	0.48
2:M:1046:ALA:HB3	3:N:1476:THR:OG1	2.13	0.48
3:N:191:LEU:HD13	3:N:393:ILE:CG2	2.44	0.48
3:N:199:LEU:HD23	3:N:200:ASP:H	1.79	0.48
3:N:702:LEU:HB3	3:N:745:MET:HE2	1.96	0.48
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.95	0.48
3:N:1140:ILE:HG22	3:N:1144:LEU:HD12	1.95	0.48
4:O:3:GLU:OE1	4:O:4:PRO:HD3	2.14	0.48
1:A:21:GLY:HA3	1:A:207:PRO:CB	2.43	0.47
2:C:42:VAL:O	2:C:43:GLY:C	2.57	0.47
2:C:278:GLU:HG3	2:C:279:GLU:N	2.28	0.47
2:C:878:SER:CB	3:D:1029:ARG:HD3	2.44	0.47
2:C:946:ARG:HD3	2:C:984:GLU:HB2	1.95	0.47
2:C:992:MET:O	2:C:994:ILE:HD12	2.14	0.47
2:C:1086:ARG:HD3	3:D:88:TYR:HE1	1.73	0.47
3:D:127:LEU:C	3:D:127:LEU:HD12	2.39	0.47
3:D:135:LEU:HB2	3:D:151:GLN:O	2.14	0.47
3:D:206:ARG:HB3	3:D:207:PHE:CE1	2.49	0.47
3:D:638:LYS:HD3	3:D:932:ASP:CB	2.44	0.47
3:D:806:PHE:C	3:D:808:THR:N	2.71	0.47
3:D:1042:ARG:CB	3:D:1042:ARG:HH11	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.14	0.47
1:F:167:VAL:HG12	1:F:168:ASP:N	2.29	0.47
1:F:169:ALA:HB1	1:F:171:PHE:CE2	2.49	0.47
2:H:191:PHE:HB2	2:H:241:LEU:HD11	1.95	0.47
2:H:358:ARG:HA	2:H:361:MET:HB3	1.96	0.47
2:H:691:SER:C	2:H:693:GLU:N	2.72	0.47
2:H:946:ARG:HD3	2:H:984:GLU:HB2	1.95	0.47
2:H:1085:PHE:CD2	3:I:1468:LEU:HD23	2.49	0.47
3:I:462:GLN:O	3:I:466:LYS:HG3	2.14	0.47
3:I:486:ARG:HA	3:I:489:ARG:CG	2.35	0.47
3:I:1106:VAL:HG21	3:I:1474:ALA:HB2	1.96	0.47
3:I:1176:LYS:O	3:I:1179:GLU:HB2	2.14	0.47
3:I:1401:GLU:OE1	3:I:1415:VAL:HG11	2.14	0.47
3:I:1481:VAL:HG22	4:J:18:ARG:NH2	2.28	0.47
1:K:26:GLU:HG3	1:K:185:ARG:HB2	1.96	0.47
1:L:58:ILE:CG2	1:L:61:VAL:HG23	2.44	0.47
1:L:161:ARG:HG3	1:L:161:ARG:NH1	2.29	0.47
2:M:49:ARG:O	2:M:53:PRO:HD3	2.13	0.47
2:M:99:GLN:OE1	2:M:110:GLU:CG	2.59	0.47
2:M:176:VAL:HG23	2:M:176:VAL:O	2.14	0.47
2:M:333:ILE:CG1	2:M:410:ILE:HD11	2.44	0.47
2:M:850:ALA:CA	3:N:632:VAL:CG1	2.88	0.47
2:M:998:TYR:CG	2:M:998:TYR:O	2.66	0.47
2:M:1034:GLU:CD	3:N:1096:ARG:NH2	2.72	0.47
3:N:97:THR:HB	3:N:571:LYS:HD2	1.96	0.47
3:N:367:ILE:HB	3:N:377:VAL:HG12	1.95	0.47
3:N:438:ASP:HB2	3:N:445:ARG:HH12	1.79	0.47
3:N:514:LEU:HD12	3:N:578:VAL:HG11	1.96	0.47
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.13	0.47
3:N:1401:GLU:OE1	3:N:1415:VAL:HG11	2.14	0.47
7:X:6:LYS:HB3	7:X:75:LEU:CD1	2.44	0.47
7:Z:22:GLU:HB3	7:Z:62:ILE:HD11	1.96	0.47
1:A:91:ASN:HD22	1:A:93:SER:CB	2.27	0.47
1:B:58:ILE:HG21	1:B:68:ILE:HD11	1.96	0.47
2:C:18:LEU:O	2:C:408:ARG:NH1	2.47	0.47
2:C:236:ILE:HD12	2:C:236:ILE:N	2.29	0.47
2:C:546:LEU:HD13	2:C:565:GLN:OE1	2.14	0.47
2:C:630:ARG:HD2	2:C:634:GLY:HA2	1.96	0.47
3:D:102:ILE:HD13	3:D:106:LYS:HB2	1.96	0.47
3:D:180:LYS:HG2	3:D:183:GLU:HB2	1.97	0.47
3:D:456:MET:O	3:D:459:GLU:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:701:LEU:HD13	3:D:748:HIS:HB2	1.96	0.47
3:D:843:PHE:HB2	3:D:866:VAL:HG22	1.95	0.47
3:D:850:LEU:HA	3:D:853:VAL:HG23	1.96	0.47
3:D:1216:SER:CB	4:E:16:LYS:H	2.28	0.47
3:D:1299:PHE:CD2	3:D:1299:PHE:N	2.79	0.47
4:E:37:ASN:HD21	4:E:93:TYR:HB3	1.77	0.47
1:F:107:LYS:NZ	1:F:113:ASP:OD2	2.37	0.47
1:F:117:VAL:CG1	1:F:120:VAL:CG1	2.91	0.47
1:G:128:HIS:CE1	1:G:131:THR:HG23	2.50	0.47
2:H:12:VAL:HG13	2:H:13:ILE:N	2.28	0.47
3:I:783:ARG:CD	7:Y:41:ASP:OD2	2.62	0.47
3:I:811:GLU:O	3:I:815:ALA:HB3	2.14	0.47
3:I:850:LEU:HA	3:I:853:VAL:HG23	1.96	0.47
3:I:1035:ILE:CA	3:I:1038:LEU:HD12	2.42	0.47
3:I:1258:ARG:NH2	3:I:1262:LEU:CD1	2.77	0.47
1:L:74:ASP:CG	3:N:872:ARG:NH2	2.72	0.47
2:M:142:ARG:CD	2:M:325:ILE:CG2	2.91	0.47
2:M:1005:MET:HA	3:N:628:ARG:O	2.14	0.47
3:N:155:ASP:O	3:N:158:TYR:HB3	2.14	0.47
3:N:465:LEU:HD21	3:N:509:PRO:CB	2.44	0.47
3:N:511:TRP:C	3:N:513:ILE:N	2.71	0.47
3:N:925:GLU:OE2	4:O:3:GLU:O	2.32	0.47
1:A:41:ARG:HG3	1:A:177:VAL:CG1	2.43	0.47
1:A:79:ILE:HG13	1:A:80:LEU:N	2.29	0.47
1:A:127:LEU:HD12	1:A:128:HIS:N	2.29	0.47
1:A:169:ALA:HB1	1:A:171:PHE:CE2	2.49	0.47
2:C:195:LEU:O	2:C:195:LEU:HD12	2.15	0.47
2:C:198:ARG:NH1	2:C:204:GLN:HG2	2.29	0.47
2:C:251:ASP:O	2:C:252:LYS:C	2.56	0.47
2:C:334:ARG:HB3	2:C:339:LEU:HD21	1.96	0.47
2:C:674:VAL:HG12	2:C:990:GLY:O	2.13	0.47
3:D:361:VAL:HB	3:D:383:GLY:O	2.14	0.47
3:D:469:ASP:O	3:D:470:LEU:C	2.57	0.47
3:D:546:ARG:CG	3:D:546:ARG:HH11	2.27	0.47
3:D:631:ILE:CD1	3:D:743:ASP:O	2.54	0.47
3:D:660:LYS:HZ1	3:D:660:LYS:CA	2.27	0.47
3:D:849:ALA:O	3:D:853:VAL:HG23	2.14	0.47
3:D:1366:LYS:HA	3:D:1369:GLU:OE1	2.15	0.47
3:D:1442:ASN:HD22	3:D:1445:HIS:H	1.61	0.47
2:H:126:SER:CB	2:H:395:LYS:NZ	2.78	0.47
2:H:236:ILE:HD12	2:H:236:ILE:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:402:SER:HA	2:H:566:THR:HG23	1.95	0.47
2:H:469:THR:CG2	2:H:470:PRO:HD2	2.36	0.47
2:H:676:ILE:HG21	2:H:988:VAL:CG1	2.36	0.47
2:H:879:ARG:NE	7:Y:42:ASP:CG	2.72	0.47
3:I:26:VAL:CG2	3:I:26:VAL:O	2.62	0.47
3:I:133:ILE:O	3:I:152:LEU:HB3	2.14	0.47
3:I:649:ALA:O	3:I:650:LEU:C	2.57	0.47
3:I:835:SER:O	3:I:836:VAL:C	2.58	0.47
3:I:849:ALA:O	3:I:853:VAL:HG23	2.14	0.47
3:I:1098:LEU:HD21	3:I:1229:ILE:HG22	1.95	0.47
1:K:24:VAL:HG22	1:K:196:THR:CG2	2.43	0.47
1:K:67:THR:CG2	2:M:627:ARG:NH2	2.77	0.47
1:K:167:VAL:HG12	1:K:168:ASP:N	2.28	0.47
1:L:95:GLN:HE21	1:L:95:GLN:HB2	1.57	0.47
1:L:157:GLY:O	1:L:159:LYS:HD3	2.13	0.47
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.43	0.47
2:M:501:THR:CG2	2:M:513:VAL:HG13	2.44	0.47
2:M:557:ARG:HH11	2:M:557:ARG:HG3	1.78	0.47
2:M:653:ASP:OD1	2:M:654:LEU:HD23	2.14	0.47
2:M:831:ARG:NH1	2:M:1000:MET:HG3	2.28	0.47
2:M:831:ARG:NH1	2:M:1002:GLU:CB	2.76	0.47
2:M:910:LYS:O	2:M:914:ILE:HG13	2.14	0.47
2:M:992:MET:O	2:M:994:ILE:HD12	2.14	0.47
2:M:1056:LYS:CB	3:N:623:VAL:HG13	2.45	0.47
2:M:1081:VAL:HG12	2:M:1085:PHE:HB3	1.93	0.47
3:N:438:ASP:CB	3:N:445:ARG:HH12	2.28	0.47
3:N:462:GLN:O	3:N:466:LYS:HG3	2.14	0.47
3:N:802:ALA:O	3:N:803:GLY:C	2.55	0.47
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.36	0.47
3:N:1137:ARG:NH2	3:N:1172:HIS:NE2	2.63	0.47
3:N:1195:GLN:HG3	3:N:1196:THR:N	2.29	0.47
3:N:1252:ILE:CD1	3:N:1329:ALA:HB2	2.44	0.47
3:N:1437:ALA:C	3:N:1439:SER:N	2.71	0.47
1:B:162:ILE:HD12	1:B:162:ILE:O	2.14	0.47
1:B:179:PHE:HD2	1:B:179:PHE:N	2.12	0.47
2:C:354:GLY:O	2:C:358:ARG:HD3	2.15	0.47
2:C:557:ARG:HH11	2:C:557:ARG:HG3	1.79	0.47
2:C:572:ILE:CD1	2:C:573:ARG:H	2.17	0.47
2:C:577:PRO:C	2:C:579:VAL:N	2.71	0.47
2:C:691:SER:HB2	2:C:858:MET:SD	2.55	0.47
3:D:86:ARG:HB2	3:D:523:ASP:OD2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:407:VAL:CG2	3:D:408:GLU:H	2.14	0.47
3:D:433:GLY:HA3	3:D:447:VAL:O	2.14	0.47
3:D:553:ARG:HH12	3:D:573:MET:CE	2.27	0.47
3:D:625:TYR:HB3	3:D:749:VAL:CG2	2.43	0.47
3:D:645:PRO:HG3	3:D:725:SER:O	2.14	0.47
3:D:649:ALA:O	3:D:650:LEU:C	2.57	0.47
3:D:835:SER:O	3:D:836:VAL:C	2.58	0.47
3:D:1066:THR:HG22	3:D:1069:GLU:CB	2.38	0.47
3:D:1206:GLY:CA	3:D:1366:LYS:HZ3	2.26	0.47
4:E:35:PHE:C	4:E:36:LYS:NZ	2.72	0.47
1:F:46:SER:HB3	2:H:856:GLU:CG	2.44	0.47
1:F:91:ASN:HD22	1:F:93:SER:CB	2.26	0.47
1:G:51:THR:CG2	1:G:145:ASP:O	2.63	0.47
2:H:12:VAL:CG1	2:H:534:VAL:HG13	2.44	0.47
2:H:876:VAL:N	2:H:877:PRO:HD2	2.29	0.47
3:I:133:ILE:HG22	3:I:134:VAL:N	2.29	0.47
3:I:593:ASN:CB	3:I:594:PRO:HD2	2.45	0.47
3:I:835:SER:C	3:I:837:GLY:N	2.69	0.47
3:I:841:TYR:HB2	3:I:864:VAL:HG11	1.95	0.47
3:I:1147:ARG:HD2	3:I:1188:VAL:HG21	1.95	0.47
3:I:1428:ALA:O	3:I:1431:THR:HG22	2.14	0.47
1:K:7:LYS:O	1:K:7:LYS:HD3	2.15	0.47
1:K:127:LEU:HD12	1:K:128:HIS:N	2.29	0.47
1:L:52:ALA:HB1	1:L:170:VAL:H	1.79	0.47
2:M:63:GLY:N	2:M:103:LYS:HG3	2.29	0.47
2:M:679:PHE:C	3:N:943:THR:HG22	2.40	0.47
2:M:704:HIS:O	2:M:828:ALA:HA	2.14	0.47
3:N:142:LEU:HA	3:N:145:VAL:O	2.14	0.47
3:N:169:TYR:HE1	3:N:198:ARG:HG3	1.79	0.47
3:N:348:GLN:HG3	3:N:351:MET:HE1	1.97	0.47
3:N:835:SER:O	3:N:836:VAL:C	2.58	0.47
3:N:1105:ILE:N	3:N:1105:ILE:CD1	2.77	0.47
3:N:1274:ILE:HD12	3:N:1274:ILE:O	2.14	0.47
3:N:1304:LYS:HE2	3:N:1304:LYS:HB3	1.64	0.47
3:N:1372:VAL:O	3:N:1375:MET:HB2	2.14	0.47
3:N:1462:LEU:HD23	3:N:1472:ILE:HG22	1.95	0.47
7:Y:66:GLU:O	7:Y:70:SER:HB3	2.15	0.47
7:Z:58:ILE:HG22	7:Z:62:ILE:CD1	2.44	0.47
1:A:167:VAL:HG12	1:A:168:ASP:N	2.29	0.47
1:A:176:ARG:NH1	2:C:865:THR:HB	2.28	0.47
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:26:TYR:CE1	2:C:340:MET:HE2	2.50	0.47
2:C:101:ILE:HD13	2:C:108:ILE:CG2	2.43	0.47
2:C:295:ASP:C	2:C:297:GLU:H	2.21	0.47
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.79	0.47
2:C:571:LEU:CD1	2:C:701:THR:H	2.27	0.47
2:C:620:LEU:HD12	2:C:620:LEU:O	2.15	0.47
3:D:639:LEU:HD22	3:D:766:ALA:HA	1.96	0.47
3:D:682:ASP:HB3	3:D:684:LYS:H	1.80	0.47
3:D:695:ILE:HD11	3:D:718:PRO:HB2	1.95	0.47
3:D:811:GLU:O	3:D:815:ALA:HB3	2.14	0.47
3:D:1375:MET:C	3:D:1376:MET:HG3	2.40	0.47
1:F:206:THR:HG23	1:F:208:LEU:H	1.79	0.47
2:H:115:LEU:HD23	2:H:115:LEU:N	2.30	0.47
2:H:184:MET:HE2	2:H:186:VAL:HG13	1.96	0.47
2:H:195:LEU:O	2:H:195:LEU:HD12	2.15	0.47
2:H:332:ARG:CD	2:H:464:LEU:O	2.62	0.47
2:H:498:GLN:HE21	2:H:498:GLN:CA	2.24	0.47
2:H:714:ASP:OD1	2:H:719:PRO:HG3	2.15	0.47
2:H:1012:PRO:HD2	2:H:1026:GLN:CB	2.44	0.47
2:H:1067:TYR:O	2:H:1071:ILE:HG12	2.13	0.47
3:I:167:GLU:HG2	3:I:169:TYR:CE1	2.50	0.47
3:I:185:VAL:HG21	3:I:203:ALA:CB	2.44	0.47
3:I:402:PRO:O	3:I:427:VAL:HG21	2.14	0.47
3:I:695:ILE:HD11	3:I:718:PRO:HB2	1.95	0.47
3:I:984:THR:CG2	3:I:987:GLU:HG3	2.45	0.47
3:I:1046:GLN:HA	3:I:1052:THR:HA	1.95	0.47
3:I:1462:LEU:HD22	3:I:1472:ILE:HG21	1.97	0.47
4:J:69:LEU:HD23	4:J:69:LEU:C	2.40	0.47
2:M:204:GLN:NE2	2:M:228:ALA:CB	2.76	0.47
2:M:290:LEU:HB2	2:M:302:VAL:HG11	1.88	0.47
2:M:379:GLU:O	2:M:383:ARG:HB3	2.14	0.47
2:M:474:VAL:CG2	2:M:479:VAL:HG12	2.45	0.47
2:M:603:VAL:HA	2:M:613:VAL:HG12	1.95	0.47
3:N:26:VAL:CG2	3:N:26:VAL:O	2.62	0.47
3:N:54:LYS:HG3	3:N:55:ASP:H	1.80	0.47
3:N:415:VAL:HG23	3:N:435:VAL:HG23	1.95	0.47
3:N:434:ARG:O	3:N:447:VAL:CG2	2.58	0.47
3:N:469:ASP:O	3:N:470:LEU:C	2.57	0.47
3:N:540:LEU:N	3:N:540:LEU:HD12	2.29	0.47
3:N:638:LYS:O	3:N:640:HIS:N	2.47	0.47
3:N:639:LEU:HD22	3:N:766:ALA:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:781:PRO:HB2	3:N:786:ILE:CD1	2.44	0.47
3:N:820:GLU:HG3	3:N:836:VAL:HG21	1.96	0.47
3:N:984:THR:CG2	3:N:987:GLU:HG3	2.44	0.47
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.50	0.47
3:N:1029:ARG:HH11	3:N:1029:ARG:CG	2.27	0.47
7:X:74:ILE:HG23	7:X:74:ILE:O	2.15	0.47
7:X:103:GLN:NE2	7:X:105:VAL:CG1	2.77	0.47
7:Y:150:ARG:HB3	7:Y:150:ARG:HH11	1.79	0.47
2:C:139:GLN:O	2:C:333:ILE:HA	2.15	0.47
2:C:876:VAL:N	2:C:877:PRO:HD2	2.29	0.47
3:D:103:TRP:HE1	3:D:604:THR:HG1	1.57	0.47
3:D:148:GLU:OE2	3:D:148:GLU:N	2.48	0.47
3:D:661:MET:CE	3:D:673:ALA:HB1	2.44	0.47
3:D:799:LYS:HE2	3:D:824:ASN:O	2.14	0.47
1:G:35:THR:O	1:G:39:PRO:HG2	2.14	0.47
2:H:546:LEU:HD13	2:H:565:GLN:OE1	2.14	0.47
2:H:610:ARG:HG3	2:H:610:ARG:NH1	2.29	0.47
2:H:653:ASP:OD1	2:H:654:LEU:HD23	2.14	0.47
2:H:910:LYS:O	2:H:914:ILE:HG13	2.14	0.47
2:H:992:MET:O	2:H:994:ILE:HD12	2.14	0.47
3:I:907:GLU:N	3:I:910:SER:OG	2.46	0.47
3:I:1106:VAL:CG1	3:I:1107:VAL:N	2.73	0.47
3:I:1274:ILE:HD12	3:I:1274:ILE:O	2.14	0.47
1:K:169:ALA:HB1	1:K:171:PHE:CE2	2.49	0.47
2:M:140:ILE:CG2	2:M:410:ILE:HD13	2.44	0.47
2:M:157:ARG:NE	2:M:314:THR:HG23	2.28	0.47
2:M:163:ILE:HD12	2:M:171:TRP:CZ3	2.50	0.47
2:M:188:LYS:NZ	2:M:188:LYS:CA	2.78	0.47
2:M:332:ARG:HG3	2:M:465:GLY:HA3	1.96	0.47
2:M:405:ARG:HD2	2:M:442:GLU:OE1	2.14	0.47
2:M:472:ARG:NH1	2:M:480:THR:O	2.47	0.47
2:M:487:THR:HG22	2:M:489:THR:H	1.78	0.47
2:M:630:ARG:HD2	2:M:634:GLY:HA2	1.96	0.47
2:M:662:GLU:OE1	2:M:663:ASN:HB2	2.13	0.47
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.96	0.47
3:N:102:ILE:HD13	3:N:106:LYS:HB2	1.96	0.47
3:N:148:GLU:HB3	3:N:151:GLN:CB	2.45	0.47
3:N:162:ARG:HA	3:N:162:ARG:HD3	1.71	0.47
3:N:379:ALA:C	3:N:380:GLU:HG3	2.39	0.47
3:N:572:ARG:O	3:N:573:MET:C	2.55	0.47
3:N:607:LEU:HD23	3:N:607:LEU:HA	1.65	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:649:ALA:O	3:N:650:LEU:C	2.57	0.47
3:N:689:ASP:O	3:N:693:GLU:HB2	2.15	0.47
3:N:695:ILE:O	3:N:696:HIS:C	2.58	0.47
3:N:1041:LEU:HD12	3:N:1058:ARG:CA	2.44	0.47
3:N:1462:LEU:HD23	3:N:1472:ILE:CG2	2.45	0.47
1:B:32:PHE:O	1:B:36:LEU:HG	2.15	0.47
1:B:100:LEU:HB2	1:B:115:LEU:HD21	1.97	0.47
2:C:251:ASP:O	2:C:253:ALA:N	2.48	0.47
2:C:270:GLY:O	2:C:274:ARG:HD3	2.15	0.47
2:C:302:VAL:O	2:C:306:THR:HG23	2.15	0.47
2:C:367:LEU:HD12	2:C:367:LEU:O	2.14	0.47
2:C:443:THR:HG21	3:D:1078:ARG:HD2	1.96	0.47
2:C:1010:THR:CG2	2:C:1011:GLY:N	2.77	0.47
3:D:10:ILE:O	3:D:1454:GLY:HA2	2.14	0.47
3:D:95:LEU:CD2	3:D:574:LEU:HD21	2.44	0.47
3:D:127:LEU:CD1	3:D:127:LEU:C	2.88	0.47
3:D:129:PHE:O	3:D:130:SER:CB	2.62	0.47
3:D:145:VAL:CG2	3:D:146:PRO:CD	2.86	0.47
3:D:204:LEU:O	3:D:393:ILE:HA	2.15	0.47
3:D:393:ILE:N	3:D:393:ILE:CD1	2.75	0.47
3:D:484:PRO:HB3	3:D:488:ARG:CG	2.44	0.47
3:D:511:TRP:C	3:D:513:ILE:N	2.71	0.47
3:D:638:LYS:O	3:D:640:HIS:N	2.48	0.47
3:D:682:ASP:C	3:D:684:LYS:H	2.20	0.47
3:D:1041:LEU:HD12	3:D:1058:ARG:CA	2.44	0.47
3:D:1101:VAL:HG11	3:D:1424:VAL:CG2	2.42	0.47
3:D:1137:ARG:HH21	3:D:1172:HIS:CD2	2.31	0.47
3:D:1274:ILE:O	3:D:1274:ILE:HD12	2.14	0.47
3:D:1363:LEU:HD11	3:D:1368:ILE:HD11	1.97	0.47
3:D:1459:LEU:HD11	3:D:1468:LEU:HD12	1.97	0.47
4:E:40:LEU:HD12	4:E:40:LEU:O	2.15	0.47
2:H:195:LEU:HD13	2:H:234:ALA:HB1	1.92	0.47
2:H:338:GLU:HA	2:H:341:THR:HG22	1.96	0.47
2:H:353:ARG:HH11	2:H:353:ARG:HG3	1.80	0.47
2:H:444:PRO:CD	2:H:452:ILE:O	2.62	0.47
2:H:487:THR:HB	2:H:490:GLU:CG	2.43	0.47
2:H:604:ALA:HB3	2:H:612:VAL:O	2.14	0.47
2:H:606:VAL:HG21	2:H:645:VAL:HG22	1.97	0.47
2:H:1013:TYR:O	2:H:1015:LEU:HD12	2.14	0.47
2:H:1038:TRP:O	2:H:1039:ALA:C	2.57	0.47
2:H:1092:LEU:HD22	2:H:1099:VAL:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:123:LEU:CD1	3:I:152:LEU:HD11	2.44	0.47
3:I:456:MET:O	3:I:459:GLU:HB3	2.14	0.47
3:I:511:TRP:C	3:I:513:ILE:N	2.71	0.47
3:I:814:ALA:O	3:I:818:ARG:HG3	2.15	0.47
3:I:843:PHE:HB2	3:I:866:VAL:HG22	1.95	0.47
3:I:949:ILE:N	3:I:949:ILE:HD12	2.29	0.47
3:I:1120:VAL:HG23	3:I:1188:VAL:CG1	2.45	0.47
3:I:1263:PHE:HB3	3:I:1424:VAL:HG11	1.96	0.47
3:I:1282:ARG:HA	3:I:1315:ASP:HA	1.97	0.47
3:I:1292:VAL:CG2	3:I:1311:LEU:HD13	2.45	0.47
3:I:1359:GLN:HE21	7:Y:37:MET:HE1	1.79	0.47
3:I:1459:LEU:HD13	3:I:1468:LEU:CD1	2.45	0.47
4:J:24:ALA:O	4:J:25:LYS:C	2.58	0.47
4:J:47:LYS:O	4:J:54:LEU:HD12	2.15	0.47
1:K:91:ASN:HD22	1:K:93:SER:CB	2.27	0.47
1:K:206:THR:CG2	1:K:209:GLU:HG3	2.45	0.47
1:L:170:VAL:O	1:L:170:VAL:HG23	2.14	0.47
2:M:93:PRO:HA	2:M:117:HIS:ND1	2.30	0.47
2:M:129:ILE:HG12	2:M:134:ARG:HD2	1.93	0.47
2:M:199:VAL:HG12	2:M:298:PHE:CE1	2.49	0.47
2:M:316:GLY:O	2:M:318:PRO:HD3	2.13	0.47
2:M:402:SER:HA	2:M:566:THR:HG23	1.95	0.47
2:M:564:MET:SD	2:M:846:LYS:CE	3.03	0.47
2:M:577:PRO:C	2:M:579:VAL:N	2.71	0.47
2:M:585:GLU:CD	2:M:585:GLU:O	2.57	0.47
2:M:588:VAL:HG11	2:M:661:SER:CB	2.45	0.47
2:M:640:ARG:NH1	2:M:640:ARG:HG2	2.29	0.47
2:M:1051:GLU:OE1	3:N:750:PRO:HA	2.13	0.47
3:N:191:LEU:O	3:N:192:ALA:CB	2.58	0.47
3:N:441:ARG:HH11	3:N:445:ARG:NH2	2.12	0.47
3:N:638:LYS:HD3	3:N:932:ASP:CB	2.44	0.47
3:N:1031:ASN:O	3:N:1035:ILE:HG12	2.15	0.47
3:N:1035:ILE:CA	3:N:1038:LEU:HD12	2.41	0.47
3:N:1093:TYR:CE2	3:N:1097:LYS:HE3	2.49	0.47
3:N:1145:TYR:O	3:N:1147:ARG:HG2	2.14	0.47
3:N:1253:THR:O	3:N:1258:ARG:HB2	2.15	0.47
3:N:1282:ARG:HG2	3:N:1282:ARG:HH11	1.80	0.47
3:N:1332:PRO:HB2	3:N:1421:LEU:HD21	1.96	0.47
4:O:59:ASN:HD21	4:O:61:VAL:HG23	1.80	0.47
7:Y:88:VAL:HG23	7:Y:156:GLY:OXT	2.14	0.47
7:Y:89:VAL:HG22	7:Y:154:ILE:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:ILE:HA	1:B:166:PRO:HD3	1.68	0.47
2:C:13:ILE:O	2:C:13:ILE:HG13	2.14	0.47
2:C:226:VAL:HG13	2:C:227:PHE:N	2.30	0.47
2:C:289:THR:C	2:C:291:ALA:N	2.72	0.47
2:C:402:SER:HA	2:C:566:THR:HG23	1.97	0.47
3:D:1044:LEU:HD21	3:D:1056:PRO:HG3	1.97	0.47
3:D:1399:ASP:O	3:D:1403:LEU:HB2	2.14	0.47
3:D:1441:GLN:NE2	3:D:1442:ASN:H	2.12	0.47
3:D:1481:VAL:O	3:D:1481:VAL:HG12	2.13	0.47
4:E:83:ASP:O	4:E:86:GLN:HG2	2.15	0.47
1:F:42:ARG:NH2	1:G:31:GLY:O	2.47	0.47
1:G:79:ILE:HG13	1:G:80:LEU:N	2.30	0.47
2:H:91:GLN:HB3	2:H:119:PRO:HA	1.97	0.47
2:H:260:LEU:C	2:H:260:LEU:CD2	2.81	0.47
2:H:946:ARG:HH12	3:I:796:ARG:HH12	1.62	0.47
3:I:6:ARG:HH21	3:I:1482:ARG:HH22	1.63	0.47
3:I:183:GLU:O	3:I:185:VAL:HG23	2.15	0.47
3:I:689:ASP:O	3:I:693:GLU:HB2	2.15	0.47
3:I:695:ILE:O	3:I:696:HIS:C	2.57	0.47
3:I:956:ILE:HD11	3:I:1062:ARG:HG3	1.97	0.47
3:I:1437:ALA:HB3	3:I:1446:VAL:HG13	1.96	0.47
1:K:222:LEU:HD21	1:L:218:LEU:HD23	1.97	0.47
2:M:196:LEU:O	2:M:200:LEU:HG	2.15	0.47
2:M:487:THR:O	2:M:488:ALA:C	2.57	0.47
2:M:755:LEU:HG	2:M:792:VAL:HG22	1.96	0.47
2:M:831:ARG:HH12	2:M:1002:GLU:HB3	1.80	0.47
2:M:928:LYS:NZ	2:M:932:GLU:HG3	2.30	0.47
3:N:672:ALA:O	3:N:675:ARG:HB2	2.15	0.47
3:N:1106:VAL:CG1	3:N:1107:VAL:H	2.22	0.47
3:N:1263:PHE:HB3	3:N:1424:VAL:HG11	1.96	0.47
2:C:577:PRO:HG3	2:C:993:PHE:CD1	2.50	0.47
2:C:701:THR:HA	2:C:831:ARG:O	2.15	0.47
3:D:12:LEU:HA	3:D:12:LEU:HD23	1.61	0.47
3:D:907:GLU:CG	3:D:908:LYS:N	2.78	0.47
3:D:978:TYR:C	3:D:980:MET:H	2.23	0.47
3:D:1120:VAL:HG23	3:D:1188:VAL:HG11	1.97	0.47
3:D:1209:LEU:HD23	3:D:1210:SER:N	2.30	0.47
3:D:1260:ILE:O	3:D:1264:GLU:HB2	2.14	0.47
1:G:137:ARG:HB3	1:G:137:ARG:CZ	2.45	0.47
1:G:179:PHE:HD2	1:G:179:PHE:N	2.12	0.47
2:H:76:PRO:O	2:H:77:PRO:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:101:ILE:HG23	2:H:108:ILE:HG12	1.97	0.47
2:H:344:PHE:O	2:H:348:LEU:HD13	2.15	0.47
2:H:584:GLU:CD	2:H:584:GLU:H	2.21	0.47
2:H:885:ILE:HG13	3:I:949:ILE:CG2	2.45	0.47
2:H:886:LEU:HA	2:H:886:LEU:HD12	1.39	0.47
2:H:966:LEU:HD21	2:H:986:PRO:HG2	1.97	0.47
2:H:1091:GLU:CB	3:I:607:LEU:HD21	2.42	0.47
3:I:102:ILE:HD13	3:I:106:LYS:HB2	1.96	0.47
3:I:115:LEU:HD23	3:I:115:LEU:O	2.14	0.47
3:I:800:LYS:HA	3:I:829:VAL:HG13	1.97	0.47
3:I:1119:SER:HA	3:I:1186:VAL:O	2.15	0.47
1:K:64:GLU:O	1:K:75:VAL:HB	2.14	0.47
2:M:121:MET:HE3	2:M:125:GLY:O	2.15	0.47
2:M:266:ARG:NH1	2:M:288:ARG:HH21	2.11	0.47
2:M:394:PHE:CD1	2:M:632:ASN:ND2	2.83	0.47
2:M:515:ALA:O	2:M:516:ARG:HD3	2.15	0.47
3:N:133:ILE:CG2	3:N:134:VAL:H	2.23	0.47
3:N:814:ALA:O	3:N:818:ARG:HG3	2.15	0.47
3:N:1290:LEU:CD1	3:N:1307:LYS:HA	2.45	0.47
7:X:89:VAL:HG12	7:X:90:GLU:N	2.30	0.47
1:A:206:THR:HG23	1:A:208:LEU:H	1.80	0.47
1:A:206:THR:CG2	1:A:209:GLU:HG3	2.45	0.47
1:B:48:ILE:HD12	1:B:48:ILE:H	1.79	0.47
1:B:152:PRO:CG	3:D:857:ILE:CD1	2.91	0.47
1:B:170:VAL:O	1:B:170:VAL:HG23	2.14	0.47
2:C:66:LEU:HD13	2:C:100:LEU:HB2	1.97	0.47
2:C:144:PRO:O	2:C:276:LYS:CE	2.63	0.47
2:C:209:ARG:O	2:C:213:ALA:HB2	2.14	0.47
2:C:302:VAL:HG13	2:C:303:PHE:N	2.29	0.47
2:C:397:GLU:HG2	2:C:403:SER:HB3	1.97	0.47
2:C:835:VAL:O	2:C:849:VAL:O	2.33	0.47
2:C:906:PHE:CZ	3:D:1067:VAL:HA	2.50	0.47
3:D:396:VAL:HG23	3:D:398:ALA:HB3	1.97	0.47
3:D:783:ARG:HG2	3:D:784:ASP:N	2.27	0.47
3:D:1084:THR:HG22	3:D:1087:ARG:NH1	2.30	0.47
3:D:1231:GLU:CB	3:D:1232:PRO:HD3	2.45	0.47
3:D:1290:LEU:HD12	3:D:1290:LEU:N	2.30	0.47
3:D:1477:GLY:O	3:D:1478:SER:C	2.57	0.47
1:G:82:LEU:HD22	1:G:142:VAL:HG11	1.97	0.47
1:G:185:ARG:HD3	3:I:692:GLU:CG	2.44	0.47
2:H:285:LEU:HD21	2:H:287:GLY:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:351:LEU:HD11	2:H:374:ASN:H	1.80	0.47
3:I:802:ALA:O	3:I:803:GLY:C	2.58	0.47
3:I:1363:LEU:HD11	3:I:1368:ILE:HD11	1.97	0.47
3:I:1441:GLN:CG	3:I:1442:ASN:N	2.77	0.47
1:K:92:PRO:C	1:K:94:LEU:N	2.73	0.47
1:K:141:GLU:OE1	1:K:161:ARG:NH1	2.47	0.47
1:K:184:THR:CG2	1:K:185:ARG:N	2.78	0.47
1:L:190:THR:O	1:L:190:THR:HG22	2.15	0.47
2:M:13:ILE:O	2:M:13:ILE:HG13	2.15	0.47
2:M:184:MET:HB2	2:M:193:LEU:HD21	1.97	0.47
2:M:545:ASN:HA	2:M:905:ILE:HD11	1.97	0.47
2:M:835:VAL:O	2:M:849:VAL:O	2.33	0.47
2:M:863:ASP:O	2:M:865:THR:N	2.48	0.47
2:M:877:PRO:HG3	3:N:1023:MET:SD	2.55	0.47
2:M:1095:LEU:CD1	2:M:1097:LEU:H	2.24	0.47
3:N:115:LEU:HD23	3:N:115:LEU:O	2.14	0.47
3:N:362:GLU:O	3:N:379:ALA:CB	2.62	0.47
3:N:368:VAL:HB	3:N:377:VAL:CB	2.44	0.47
3:N:796:ARG:HD3	3:N:1017:PHE:CE1	2.50	0.47
3:N:850:LEU:HA	3:N:853:VAL:HG23	1.96	0.47
3:N:907:GLU:CG	3:N:908:LYS:N	2.78	0.47
3:N:1120:VAL:HG23	3:N:1188:VAL:CG1	2.45	0.47
3:N:1256:LEU:N	3:N:1257:PRO:CD	2.78	0.47
3:N:1273:VAL:HG21	3:N:1305:LEU:HD21	1.97	0.47
4:O:35:PHE:CD2	4:O:56:ASP:O	2.68	0.47
7:Y:73:VAL:HG12	7:Y:74:ILE:N	2.29	0.47
1:B:48:ILE:CG2	1:B:173:PRO:HD2	2.45	0.46
2:C:140:ILE:CG2	2:C:333:ILE:HG13	2.45	0.46
2:C:723:THR:HG23	2:C:725:ASP:H	1.80	0.46
2:C:1015:LEU:N	2:C:1015:LEU:CD1	2.78	0.46
2:C:1032:PHE:CZ	2:C:1040:LEU:HD22	2.50	0.46
3:D:54:LYS:CG	3:D:55:ASP:N	2.78	0.46
3:D:127:LEU:HD13	3:D:461:ILE:HD11	1.97	0.46
3:D:473:LEU:HA	3:D:476:GLU:HB2	1.96	0.46
3:D:546:ARG:NH1	3:D:546:ARG:HG2	2.30	0.46
3:D:689:ASP:O	3:D:693:GLU:HB2	2.15	0.46
3:D:755:ALA:O	3:D:758:GLU:HG2	2.15	0.46
1:F:18:ARG:NH1	1:F:88:ARG:NE	2.63	0.46
1:G:62:LEU:HD12	1:G:63:HIS:N	2.21	0.46
2:H:440:PRO:HB2	3:I:1074:SER:OG	2.14	0.46
2:H:515:ALA:O	2:H:516:ARG:HD3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:202:VAL:O	3:I:395:VAL:CA	2.55	0.46
3:I:469:ASP:O	3:I:470:LEU:C	2.57	0.46
3:I:950:GLY:O	3:I:953:ASP:HB2	2.16	0.46
3:I:1029:ARG:NH2	7:Y:41:ASP:HB3	2.30	0.46
3:I:1044:LEU:HD21	3:I:1056:PRO:HG3	1.97	0.46
3:I:1260:ILE:O	3:I:1264:GLU:HB2	2.14	0.46
3:I:1332:PRO:HB2	3:I:1421:LEU:HD21	1.97	0.46
3:I:1366:LYS:HA	3:I:1369:GLU:OE1	2.15	0.46
3:I:1412:LYS:HE2	3:I:1414:PRO:HG3	1.96	0.46
1:K:23:PHE:CD2	1:K:211:LEU:HD22	2.50	0.46
1:L:62:LEU:HD12	1:L:63:HIS:H	1.78	0.46
1:L:179:PHE:HD2	1:L:179:PHE:N	2.12	0.46
2:M:145:GLY:CA	2:M:276:LYS:HD3	2.44	0.46
2:M:154:ARG:HH12	2:M:178:PRO:HD3	1.74	0.46
2:M:178:PRO:C	2:M:180:GLY:N	2.72	0.46
2:M:1092:LEU:HD22	2:M:1099:VAL:HG23	1.97	0.46
3:N:54:LYS:HG3	3:N:55:ASP:N	2.30	0.46
3:N:199:LEU:CG	3:N:200:ASP:H	2.29	0.46
3:N:800:LYS:CE	3:N:830:ALA:HB3	2.45	0.46
3:N:1366:LYS:HA	3:N:1369:GLU:OE1	2.15	0.46
1:A:128:HIS:HE1	1:A:131:THR:CG2	2.24	0.46
1:B:88:ARG:NH1	1:B:123:MET:HE1	2.30	0.46
2:C:265:ARG:H	2:C:289:THR:CG2	2.20	0.46
2:C:277:ALA:O	2:C:278:GLU:C	2.58	0.46
2:C:351:LEU:CD1	2:C:374:ASN:ND2	2.78	0.46
2:C:361:MET:O	2:C:361:MET:HG2	2.15	0.46
2:C:440:PRO:HB2	3:D:1074:SER:OG	2.15	0.46
2:C:477:GLY:HA2	2:C:508:ILE:CD1	2.46	0.46
2:C:495:THR:HG21	2:C:517:ARG:HH21	1.80	0.46
2:C:515:ALA:O	2:C:516:ARG:HD3	2.15	0.46
2:C:726:ILE:CG1	2:C:734:LEU:HD11	2.43	0.46
2:C:834:GLN:NE2	3:D:724:GLN:HG3	2.16	0.46
2:C:1056:LYS:HD3	3:D:623:VAL:HG11	1.96	0.46
2:C:1081:VAL:HG12	2:C:1085:PHE:HB3	1.93	0.46
3:D:702:LEU:HB3	3:D:745:MET:HE2	1.96	0.46
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.45	0.46
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.98	0.46
3:D:1106:VAL:CB	3:D:1108:ARG:HE	2.09	0.46
3:D:1130:ARG:C	3:D:1131:SER:OG	2.58	0.46
3:D:1165:TYR:N	3:D:1165:TYR:CD1	2.83	0.46
3:D:1330:ILE:HG22	3:D:1331:ASP:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1332:PRO:HB2	3:D:1421:LEU:HD21	1.96	0.46
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	1.97	0.46
3:D:1437:ALA:HB1	3:D:1446:VAL:HG22	1.96	0.46
1:G:190:THR:O	1:G:190:THR:HG22	2.15	0.46
2:H:4:LYS:NZ	2:H:917:LEU:HD21	2.31	0.46
2:H:332:ARG:CG	2:H:464:LEU:O	2.63	0.46
2:H:399:ASN:ND2	2:H:568:ALA:HB3	2.30	0.46
2:H:444:PRO:HD2	2:H:452:ILE:O	2.15	0.46
2:H:483:VAL:HG12	2:H:484:VAL:N	2.30	0.46
2:H:606:VAL:CG2	2:H:645:VAL:HG22	2.44	0.46
2:H:1084:SER:HA	2:H:1087:VAL:HG12	1.97	0.46
2:H:1102:LEU:HA	2:H:1107:ASN:O	2.16	0.46
3:I:638:LYS:O	3:I:640:HIS:N	2.47	0.46
3:I:800:LYS:HD3	3:I:830:ALA:O	2.15	0.46
3:I:907:GLU:CG	3:I:908:LYS:N	2.78	0.46
3:I:1119:SER:O	3:I:1121:PRO:HD3	2.15	0.46
3:I:1477:GLY:O	3:I:1478:SER:C	2.58	0.46
1:L:65:PHE:CD1	1:L:65:PHE:N	2.84	0.46
2:M:175:GLU:HG2	2:M:177:GLU:CD	2.40	0.46
2:M:207:LEU:HD22	2:M:221:LEU:HD11	1.97	0.46
2:M:267:TYR:CD2	2:M:267:TYR:N	2.82	0.46
2:M:304:LEU:HD11	2:M:308:ARG:CZ	2.45	0.46
2:M:508:ILE:HG22	2:M:509:ALA:H	1.79	0.46
3:N:402:PRO:N	3:N:443:VAL:HG23	2.29	0.46
3:N:473:LEU:HA	3:N:476:GLU:HB2	1.96	0.46
3:N:783:ARG:HH11	7:Z:41:ASP:CG	2.14	0.46
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.97	0.46
3:N:1044:LEU:HD21	3:N:1056:PRO:HG3	1.97	0.46
3:N:1120:VAL:O	3:N:1122:LEU:HD12	2.15	0.46
3:N:1122:LEU:N	3:N:1122:LEU:CD1	2.75	0.46
3:N:1305:LEU:HD12	3:N:1311:LEU:CD2	2.30	0.46
4:O:25:LYS:O	4:O:28:GLN:HB2	2.15	0.46
2:C:292:ARG:HD2	2:C:299:LYS:HZ3	1.81	0.46
2:C:390:GLN:NE2	6:Q:12:G:OP1	2.49	0.46
2:C:479:VAL:CG2	2:C:506:ASN:HA	2.45	0.46
2:C:588:VAL:HG11	2:C:661:SER:HB3	1.98	0.46
2:C:840:ALA:CB	2:C:846:LYS:HA	2.43	0.46
2:C:863:ASP:O	2:C:865:THR:N	2.48	0.46
3:D:187:LYS:H	3:D:200:ASP:CG	2.23	0.46
3:D:388:HIS:O	3:D:390:PRO:HD3	2.15	0.46
3:D:408:GLU:CG	3:D:409:VAL:N	2.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:465:LEU:CD1	3:D:510:GLU:HA	2.36	0.46
4:E:31:LEU:HD12	4:E:32:ARG:N	2.30	0.46
4:E:68:LEU:HD12	4:E:73:LEU:HD13	1.96	0.46
2:H:78:PHE:HB3	2:H:79:PRO:HD2	1.97	0.46
2:H:437:ARG:HG2	2:H:467:ILE:HG22	1.96	0.46
2:H:578:VAL:HA	2:H:900:ARG:CG	2.45	0.46
2:H:679:PHE:O	3:I:943:THR:HG22	2.15	0.46
2:H:928:LYS:NZ	2:H:932:GLU:HG3	2.30	0.46
3:I:783:ARG:NH1	7:Y:41:ASP:CG	2.62	0.46
3:I:1149:LEU:HG	3:I:1166:LEU:HD22	1.97	0.46
2:M:108:ILE:HG22	2:M:109:LYS:N	2.30	0.46
2:M:190:LYS:O	2:M:191:PHE:HB3	2.15	0.46
2:M:252:LYS:H	2:M:252:LYS:HG2	1.42	0.46
2:M:290:LEU:CB	2:M:302:VAL:CG1	2.80	0.46
2:M:939:ARG:HA	2:M:939:ARG:NE	2.14	0.46
2:M:1112:PHE:O	2:M:1112:PHE:CG	2.67	0.46
3:N:127:LEU:HD23	3:N:134:VAL:HG13	1.97	0.46
3:N:129:PHE:O	3:N:572:ARG:HG2	2.16	0.46
3:N:143:ASN:CB	3:N:161:LEU:HD23	2.46	0.46
3:N:477:LEU:HD22	3:N:492:ALA:CB	2.40	0.46
3:N:687:VAL:O	3:N:690:ALA:HB3	2.16	0.46
3:N:1014:ASN:C	3:N:1016:PRO:HD3	2.40	0.46
3:N:1202:GLN:HB2	3:N:1217:ILE:HD11	1.97	0.46
3:N:1340:GLY:O	3:N:1344:VAL:HG23	2.15	0.46
3:N:1384:PRO:HG3	3:N:1389:LEU:CB	2.38	0.46
4:O:25:LYS:HB3	4:O:25:LYS:HE2	1.69	0.46
1:A:34:VAL:HG13	1:B:42:ARG:HE	1.79	0.46
2:C:80:GLN:O	2:C:83:CYS:N	2.49	0.46
2:C:80:GLN:C	2:C:84:ARG:NH1	2.73	0.46
2:C:170:PRO:CG	2:C:258:TYR:CD1	2.92	0.46
3:D:126:VAL:HG12	3:D:132:TYR:CB	2.34	0.46
3:D:160:GLU:C	3:D:161:LEU:HD12	2.33	0.46
3:D:180:LYS:HZ1	3:D:386:HIS:HA	1.81	0.46
3:D:420:VAL:HG13	3:D:424:GLY:O	2.16	0.46
3:D:1061:PHE:CE1	3:D:1065:LEU:HD22	2.41	0.46
3:D:1146:GLY:C	3:D:1207:TYR:HB2	2.41	0.46
3:D:1152:GLU:HG2	3:D:1160:LEU:O	2.14	0.46
3:D:1195:GLN:HG3	3:D:1196:THR:N	2.29	0.46
3:D:1282:ARG:HA	3:D:1315:ASP:HA	1.96	0.46
1:F:18:ARG:O	1:F:201:THR:OG1	2.32	0.46
1:G:188:GLN:CG	3:I:685:ASP:OD1	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:6:PHE:HZ	2:H:917:LEU:CD1	2.27	0.46
2:H:415:PRO:HB2	2:H:418:LEU:CD1	2.46	0.46
2:H:606:VAL:HG22	2:H:645:VAL:HG13	1.97	0.46
2:H:1084:SER:HB3	3:I:617:ASN:CG	2.33	0.46
2:H:1093:GLN:OE1	3:I:21:TRP:CE3	2.68	0.46
3:I:702:LEU:HB3	3:I:745:MET:HE2	1.97	0.46
3:I:1372:VAL:O	3:I:1375:MET:HB2	2.14	0.46
2:M:3:ILE:N	2:M:3:ILE:HD12	2.31	0.46
2:M:139:GLN:O	2:M:333:ILE:HA	2.14	0.46
2:M:415:PRO:HD2	2:M:418:LEU:HD13	1.98	0.46
2:M:679:PHE:HB2	2:M:683:ASN:ND2	2.23	0.46
2:M:795:GLY:O	2:M:796:GLU:HG2	2.16	0.46
3:N:50:PHE:HD2	3:N:522:PRO:CD	1.74	0.46
3:N:368:VAL:H	3:N:377:VAL:HB	1.80	0.46
3:N:804:LEU:HB2	3:N:830:ALA:O	2.16	0.46
3:N:880:ILE:CG2	3:N:881:LEU:N	2.78	0.46
3:N:996:TRP:O	3:N:999:THR:HG22	2.16	0.46
7:X:81:GLU:OE2	7:X:154:ILE:HD12	2.16	0.46
7:Y:30:THR:HA	7:Y:55:LYS:HE2	1.98	0.46
7:Y:91:LEU:HB3	7:Y:149:PHE:HB3	1.96	0.46
1:A:18:ARG:HH11	1:A:123:MET:CE	2.28	0.46
1:A:156:HIS:CD2	1:A:158:ILE:CD1	2.99	0.46
1:B:44:LEU:HA	1:B:48:ILE:HD11	1.97	0.46
1:B:85:LEU:HA	1:B:124:ASN:ND2	2.31	0.46
2:C:11:GLU:CD	2:C:537:LYS:HZ2	2.24	0.46
2:C:39:ARG:HB2	2:C:45:GLN:NE2	2.30	0.46
2:C:333:ILE:HD12	2:C:333:ILE:N	2.31	0.46
2:C:334:ARG:CB	2:C:339:LEU:HD21	2.46	0.46
2:C:1070:ILE:CG2	3:D:655:PRO:HB2	2.45	0.46
2:C:1102:LEU:HA	2:C:1107:ASN:O	2.16	0.46
3:D:183:GLU:O	3:D:185:VAL:HG23	2.15	0.46
3:D:479:GLU:C	3:D:483:HIS:HD1	2.21	0.46
3:D:792:ILE:CD1	3:D:881:LEU:HD23	2.38	0.46
3:D:1274:ILE:HD12	3:D:1274:ILE:C	2.41	0.46
3:D:1425:THR:O	3:D:1428:ALA:HB3	2.16	0.46
3:D:1434:TRP:O	3:D:1435:LEU:C	2.59	0.46
4:E:3:GLU:HA	4:E:3:GLU:OE1	2.15	0.46
1:F:26:GLU:HB2	1:F:27:PRO:HA	1.98	0.46
1:F:206:THR:CG2	1:F:209:GLU:HG3	2.45	0.46
1:G:142:VAL:HG23	1:G:142:VAL:O	2.15	0.46
2:H:54:ILE:CG2	2:H:66:LEU:HB3	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:63:GLY:N	2:H:103:LYS:HG3	2.29	0.46
2:H:508:ILE:HG22	2:H:509:ALA:N	2.31	0.46
2:H:626:ARG:HB3	2:H:629:TYR:CD1	2.51	0.46
2:H:953:VAL:O	2:H:955:PRO:HD3	2.15	0.46
2:H:1059:ASP:OD1	2:H:1062:GLY:N	2.45	0.46
3:I:131:LYS:O	3:I:132:TYR:C	2.57	0.46
3:I:796:ARG:HD3	3:I:1017:PHE:HE1	1.79	0.46
3:I:806:PHE:O	3:I:808:THR:N	2.48	0.46
3:I:880:ILE:CG2	3:I:881:LEU:N	2.78	0.46
3:I:881:LEU:HD12	3:I:885:ILE:HD11	1.98	0.46
3:I:1014:ASN:C	3:I:1016:PRO:HD3	2.41	0.46
3:I:1202:GLN:HB2	3:I:1217:ILE:HD11	1.97	0.46
3:I:1281:VAL:CG1	3:I:1282:ARG:N	2.78	0.46
2:M:174:LEU:CD2	2:M:184:MET:HG3	2.45	0.46
2:M:235:LEU:HD11	2:M:298:PHE:CE1	2.50	0.46
2:M:267:TYR:O	2:M:268:ASP:C	2.59	0.46
2:M:571:LEU:CD1	2:M:701:THR:H	2.28	0.46
3:N:709:HIS:HA	3:N:1227:GLN:NE2	2.30	0.46
3:N:791:TYR:CD2	3:N:945:SER:HB2	2.51	0.46
3:N:996:TRP:CD1	3:N:1056:PRO:CG	2.98	0.46
3:N:1325:LEU:HD12	3:N:1325:LEU:HA	1.70	0.46
7:X:22:GLU:OE1	7:X:58:ILE:HD12	2.16	0.46
1:A:224:TYR:CD1	1:B:9:PRO:HD2	2.50	0.46
1:B:7:LYS:HB3	1:B:7:LYS:HE3	1.70	0.46
2:C:80:GLN:O	2:C:83:CYS:HB2	2.16	0.46
2:C:95:TYR:CD2	2:C:114:PHE:CB	2.95	0.46
2:C:184:MET:SD	2:C:191:PHE:HE1	2.39	0.46
2:C:263:ASP:HB2	2:C:264:PRO:CD	2.46	0.46
2:C:317:VAL:N	2:C:318:PRO:HD3	2.29	0.46
2:C:516:ARG:CG	3:D:1068:LEU:HD13	2.46	0.46
2:C:571:LEU:HD11	2:C:700:TYR:CA	2.44	0.46
2:C:722:ILE:HG12	2:C:757:GLY:O	2.15	0.46
2:C:877:PRO:HD3	3:D:949:ILE:HD11	1.98	0.46
2:C:1051:GLU:OE2	3:D:751:LEU:HB2	2.16	0.46
2:C:1084:SER:C	2:C:1087:VAL:HG12	2.41	0.46
3:D:462:GLN:O	3:D:466:LYS:HG3	2.14	0.46
3:D:489:ARG:NH2	3:D:1389:LEU:HD21	2.30	0.46
3:D:682:ASP:O	3:D:683:ILE:CB	2.59	0.46
3:D:925:GLU:HG2	3:D:926:LYS:N	2.31	0.46
3:D:956:ILE:HD12	3:D:956:ILE:N	2.30	0.46
3:D:970:LYS:HZ3	7:X:113:LEU:HD23	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1014:ASN:C	3:D:1016:PRO:HD3	2.40	0.46
3:D:1094:LEU:HD21	3:D:1259:VAL:HG11	1.96	0.46
1:F:82:LEU:O	1:F:85:LEU:HB3	2.16	0.46
1:F:127:LEU:HD12	1:F:128:HIS:N	2.29	0.46
1:G:216:GLU:C	1:G:216:GLU:CD	2.84	0.46
2:H:269:LEU:HG	2:H:287:GLY:O	2.16	0.46
2:H:340:MET:C	2:H:340:MET:SD	2.98	0.46
2:H:794:PRO:CD	2:H:1025:ALA:HA	2.46	0.46
2:H:874:LEU:HD21	3:I:787:LEU:HD22	1.97	0.46
2:H:1084:SER:C	2:H:1087:VAL:HG12	2.41	0.46
3:I:1011:PHE:HB3	3:I:1021:TYR:CD1	2.50	0.46
3:I:1083:ASP:O	3:I:1087:ARG:HB3	2.16	0.46
3:I:1330:ILE:HG22	3:I:1331:ASP:N	2.30	0.46
1:K:82:LEU:O	1:K:85:LEU:HB3	2.15	0.46
2:M:26:TYR:HA	2:M:29:ALA:CB	2.45	0.46
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.97	0.46
2:M:215:GLY:O	2:M:216:GLU:CB	2.63	0.46
2:M:626:ARG:HB3	2:M:629:TYR:CD1	2.51	0.46
2:M:984:GLU:HG3	3:N:944:THR:O	2.14	0.46
2:M:1084:SER:HA	2:M:1087:VAL:HG12	1.97	0.46
3:N:765:SER:OG	3:N:766:ALA:N	2.46	0.46
3:N:1231:GLU:CB	3:N:1232:PRO:HD3	2.45	0.46
3:N:1261:GLU:O	3:N:1264:GLU:O	2.34	0.46
3:N:1347:TYR:HD2	3:N:1348:LEU:HD12	1.81	0.46
4:O:63:TRP:O	4:O:64:ALA:C	2.58	0.46
7:Z:139:SER:OG	7:Z:146:ARG:HG3	2.15	0.46
1:A:82:LEU:O	1:A:85:LEU:HB3	2.15	0.46
1:B:76:VAL:HB	3:D:872:ARG:HH12	1.81	0.46
1:B:94:LEU:HD13	1:B:120:VAL:HG22	1.97	0.46
1:B:190:THR:O	1:B:190:THR:HG22	2.15	0.46
2:C:449:ILE:CD1	3:D:1081:GLY:HA3	2.45	0.46
2:C:953:VAL:O	2:C:955:PRO:HD3	2.16	0.46
2:C:1084:SER:HA	2:C:1087:VAL:HG12	1.96	0.46
3:D:154:THR:HG21	3:D:157:GLU:OE2	2.16	0.46
3:D:391:ALA:HB3	2:H:283:ILE:HG21	1.98	0.46
3:D:832:ARG:HA	3:D:832:ARG:NE	2.31	0.46
3:D:835:SER:N	3:D:838:ARG:CD	2.79	0.46
3:D:956:ILE:HD11	3:D:1062:ARG:CB	2.46	0.46
3:D:1011:PHE:HB3	3:D:1021:TYR:CD1	2.50	0.46
3:D:1132:LEU:HD12	3:D:1132:LEU:H	1.81	0.46
1:F:180:GLN:HE21	1:F:180:GLN:HB3	1.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:154:GLU:OE2	3:I:840:LYS:HE2	2.16	0.46
2:H:6:PHE:CD1	2:H:909:ALA:HB2	2.50	0.46
2:H:80:GLN:HA	2:H:90:TYR:CD2	2.51	0.46
2:H:84:ARG:HG2	2:H:131:GLY:O	2.15	0.46
2:H:176:VAL:HG12	2:H:182:VAL:HG22	1.97	0.46
2:H:281:LEU:HD12	2:H:306:THR:HA	1.97	0.46
2:H:325:ILE:HD12	2:H:325:ILE:N	2.31	0.46
2:H:336:VAL:O	2:H:339:LEU:HB2	2.15	0.46
2:H:500:ASN:ND2	2:H:500:ASN:H	2.14	0.46
2:H:835:VAL:O	2:H:849:VAL:O	2.34	0.46
2:H:1044:GLY:HA3	4:J:17:TYR:HE1	1.81	0.46
3:I:50:PHE:CE2	3:I:522:PRO:CD	2.98	0.46
3:I:123:LEU:HD21	3:I:151:GLN:HE22	1.76	0.46
3:I:182:GLY:CA	3:I:441:ARG:HD3	2.45	0.46
3:I:415:VAL:O	3:I:432:TYR:HA	2.16	0.46
3:I:639:LEU:CD1	3:I:640:HIS:N	2.79	0.46
3:I:1274:ILE:HD12	3:I:1274:ILE:C	2.41	0.46
3:I:1340:GLY:O	3:I:1344:VAL:HG23	2.15	0.46
4:J:32:ARG:NH1	4:J:32:ARG:HB2	2.30	0.46
4:J:41:GLU:N	4:J:42:PRO:CD	2.79	0.46
1:K:21:GLY:HA3	1:K:207:PRO:CB	2.46	0.46
1:K:102:LYS:HB3	1:K:139:ASN:ND2	2.31	0.46
2:M:100:LEU:O	2:M:108:ILE:CG2	2.56	0.46
2:M:165:LEU:HA	2:M:166:PRO:O	2.15	0.46
2:M:294:GLU:HG2	2:M:295:ASP:N	2.31	0.46
2:M:328:LEU:HB2	2:M:488:ALA:CB	2.46	0.46
2:M:966:LEU:HD21	2:M:986:PRO:HG2	1.97	0.46
3:N:348:GLN:H	3:N:351:MET:CE	2.29	0.46
3:N:481:MET:O	3:N:489:ARG:HB2	2.16	0.46
3:N:755:ALA:O	3:N:758:GLU:HG2	2.15	0.46
3:N:827:ILE:HD12	3:N:827:ILE:N	2.27	0.46
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.45	0.46
3:N:997:THR:CG2	7:Z:61:ARG:NH1	2.79	0.46
3:N:1108:ARG:HA	3:N:1217:ILE:HG23	1.98	0.46
3:N:1165:TYR:CE2	3:N:1214:PRO:HB3	2.51	0.46
4:O:37:ASN:ND2	4:O:93:TYR:CD2	2.83	0.46
7:X:128:ALA:O	7:X:138:LEU:CD1	2.63	0.46
1:A:102:LYS:HB3	1:A:139:ASN:ND2	2.31	0.46
1:B:34:VAL:CG2	1:B:181:VAL:HG21	2.45	0.46
2:C:443:THR:HA	2:C:444:PRO:HD3	1.74	0.46
2:C:625:LEU:O	2:C:627:ARG:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:626:ARG:HB3	2:C:629:TYR:CD1	2.50	0.46
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.50	0.46
2:C:957:LYS:O	2:C:962:GLN:NE2	2.25	0.46
3:D:184:GLU:OE1	3:D:201:GLY:O	2.34	0.46
3:D:451:ASP:C	3:D:451:ASP:OD1	2.59	0.46
3:D:720:LEU:H	3:D:720:LEU:HD12	1.81	0.46
3:D:813:LEU:HD12	3:D:813:LEU:C	2.41	0.46
3:D:1459:LEU:CD1	3:D:1468:LEU:HD12	2.45	0.46
4:E:63:TRP:O	4:E:64:ALA:C	2.59	0.46
1:F:102:LYS:HB3	1:F:139:ASN:ND2	2.31	0.46
2:H:159:ILE:HD12	2:H:159:ILE:C	2.39	0.46
2:H:611:ILE:HG13	2:H:625:LEU:HD21	1.98	0.46
2:H:728:HIS:O	2:H:729:LEU:CB	2.63	0.46
3:I:483:HIS:CB	3:I:484:PRO:HD3	2.40	0.46
3:I:832:ARG:HA	3:I:832:ARG:NE	2.31	0.46
3:I:1041:LEU:HD12	3:I:1058:ARG:CA	2.44	0.46
3:I:1103:HIS:CD2	3:I:1463:LYS:HB2	2.51	0.46
3:I:1258:ARG:O	3:I:1262:LEU:HB2	2.15	0.46
3:I:1369:GLU:HA	3:I:1372:VAL:HG12	1.97	0.46
2:M:39:ARG:HH12	2:M:70:GLU:HA	1.80	0.46
2:M:235:LEU:CD1	2:M:298:PHE:CE1	2.98	0.46
2:M:274:ARG:CD	2:M:285:LEU:HD13	2.45	0.46
2:M:281:LEU:HD11	2:M:306:THR:HG22	1.98	0.46
2:M:333:ILE:HD11	2:M:467:ILE:HG13	1.98	0.46
2:M:557:ARG:HG2	2:M:881:ASN:HD22	1.76	0.46
2:M:691:SER:C	2:M:693:GLU:N	2.72	0.46
2:M:749:VAL:HB	2:M:792:VAL:HG21	1.97	0.46
2:M:854:PRO:O	2:M:855:VAL:C	2.59	0.46
2:M:859:PRO:HB2	2:M:867:VAL:CG2	2.46	0.46
2:M:953:VAL:O	2:M:955:PRO:HD3	2.15	0.46
2:M:1102:LEU:HA	2:M:1107:ASN:O	2.16	0.46
3:N:12:LEU:HD23	3:N:12:LEU:HA	1.62	0.46
3:N:758:GLU:HA	4:O:20:THR:HG21	1.97	0.46
3:N:956:ILE:HD12	3:N:956:ILE:N	2.31	0.46
3:N:1042:ARG:HH11	3:N:1042:ARG:HB2	1.81	0.46
7:Y:105:VAL:O	7:Y:121:ASP:N	2.49	0.46
1:B:156:HIS:H	1:B:156:HIS:CD2	2.34	0.46
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.45	0.46
2:C:140:ILE:HD11	2:C:412:ALA:CB	2.46	0.46
2:C:140:ILE:HG22	2:C:333:ILE:HD11	1.97	0.46
2:C:333:ILE:HG12	2:C:410:ILE:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:588:VAL:HG11	2:C:661:SER:CB	2.45	0.46
2:C:653:ASP:OD1	2:C:654:LEU:HD23	2.14	0.46
2:C:691:SER:C	2:C:693:GLU:N	2.72	0.46
2:C:928:LYS:NZ	2:C:932:GLU:HG3	2.30	0.46
3:D:115:LEU:HD23	3:D:115:LEU:O	2.14	0.46
3:D:171:LEU:HD12	3:D:393:ILE:HD13	1.98	0.46
3:D:799:LYS:HD3	3:D:826:PRO:CG	2.46	0.46
3:D:984:THR:CG2	3:D:987:GLU:HG3	2.44	0.46
3:D:1202:GLN:HB2	3:D:1217:ILE:HD11	1.97	0.46
3:D:1286:THR:O	3:D:1287:GLU:CB	2.64	0.46
4:E:69:LEU:HD23	4:E:69:LEU:C	2.41	0.46
1:F:186:LEU:C	1:F:186:LEU:CD2	2.86	0.46
2:H:6:PHE:HZ	2:H:917:LEU:HD11	1.81	0.46
2:H:273:GLY:HA2	2:H:276:LYS:HD2	1.97	0.46
2:H:368:THR:HB	2:H:369:PRO:HD2	1.97	0.46
2:H:572:ILE:HG23	2:H:703:ILE:CD1	2.39	0.46
2:H:1034:GLU:CD	3:I:1096:ARG:HH22	2.24	0.46
2:H:1065:ALA:CB	2:H:1077:PRO:HG2	2.36	0.46
3:I:408:GLU:CG	3:I:409:VAL:N	2.58	0.46
3:I:458:ALA:HB2	3:I:575:GLN:NE2	2.30	0.46
3:I:520:LEU:HD12	3:I:521:PRO:CD	2.44	0.46
3:I:551:ASN:O	3:I:555:LYS:HG3	2.16	0.46
3:I:562:ALA:HB1	3:I:567:ILE:HD11	1.98	0.46
3:I:978:TYR:C	3:I:980:MET:H	2.23	0.46
3:I:996:TRP:CG	3:I:1056:PRO:HG2	2.51	0.46
3:I:1021:TYR:CE2	3:I:1025:GLN:HG2	2.51	0.46
3:I:1148:VAL:HG13	3:I:1163:GLY:O	2.15	0.46
3:I:1155:VAL:CG1	3:I:1177:ALA:HB1	2.46	0.46
4:J:61:VAL:HG23	4:J:62:THR:N	2.31	0.46
1:L:7:LYS:HB3	1:L:7:LYS:HE3	1.70	0.46
1:L:216:GLU:C	1:L:216:GLU:CD	2.84	0.46
2:M:176:VAL:CG1	2:M:182:VAL:HG13	2.42	0.46
2:M:338:GLU:HA	2:M:341:THR:HG22	1.97	0.46
2:M:546:LEU:HD13	2:M:565:GLN:OE1	2.14	0.46
2:M:625:LEU:O	2:M:627:ARG:N	2.49	0.46
3:N:29:PRO:HD3	3:N:548:ILE:HG22	1.98	0.46
3:N:50:PHE:HB3	3:N:522:PRO:CD	2.46	0.46
3:N:348:GLN:H	3:N:351:MET:HE2	1.81	0.46
3:N:456:MET:HE1	3:N:568:ARG:CZ	2.44	0.46
3:N:465:LEU:HD22	3:N:510:GLU:CA	2.46	0.46
3:N:1087:ARG:HG2	3:N:1234:THR:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1288:GLU:C	3:N:1289:LYS:HG3	2.38	0.46
3:N:1412:LYS:HE2	3:N:1414:PRO:HG3	1.96	0.46
3:N:1468:LEU:HD22	3:N:1470:ARG:HD3	1.98	0.46
1:B:56:VAL:CG1	1:B:57:TYR:N	2.78	0.46
2:C:187:ASN:O	2:C:188:LYS:CB	2.64	0.46
2:C:258:TYR:CE1	2:C:264:PRO:HG3	2.51	0.46
2:C:333:ILE:CG1	2:C:410:ILE:HD13	2.46	0.46
2:C:859:PRO:HB2	2:C:867:VAL:CG2	2.46	0.46
3:D:115:LEU:C	3:D:115:LEU:CD2	2.89	0.46
3:D:116:LEU:CD2	3:D:118:LEU:CG	2.72	0.46
3:D:170:PRO:HA	3:D:392:SER:HB3	1.98	0.46
3:D:179:VAL:HG13	3:D:183:GLU:CG	2.46	0.46
3:D:465:LEU:HD21	3:D:509:PRO:CB	2.44	0.46
3:D:1397:LYS:NZ	3:D:1432:LYS:NZ	2.63	0.46
4:E:61:VAL:CG2	4:E:62:THR:N	2.79	0.46
1:G:51:THR:HG22	1:G:145:ASP:O	2.16	0.46
2:H:144:PRO:O	2:H:276:LYS:HD3	2.16	0.46
2:H:184:MET:SD	2:H:191:PHE:CE1	3.09	0.46
2:H:267:TYR:O	2:H:268:ASP:C	2.58	0.46
2:H:332:ARG:NE	2:H:464:LEU:CD1	2.78	0.46
2:H:681:GLY:C	3:I:635:PRO:CG	2.85	0.46
2:H:854:PRO:O	2:H:855:VAL:C	2.59	0.46
2:H:1046:ALA:CB	3:I:1476:THR:HB	2.46	0.46
2:H:1078:GLU:HA	2:H:1079:PRO:HD3	1.79	0.46
3:I:47:GLU:O	3:I:51:GLY:CA	2.64	0.46
3:I:90:MET:HG2	3:I:521:PRO:HG3	1.98	0.46
3:I:100:ALA:CB	3:I:128:TYR:OH	2.64	0.46
3:I:123:LEU:CD1	3:I:152:LEU:HD21	2.44	0.46
3:I:1375:MET:C	3:I:1376:MET:HG3	2.39	0.46
4:J:3:GLU:OE1	4:J:4:PRO:CD	2.64	0.46
1:K:80:LEU:HD23	1:K:80:LEU:C	2.41	0.46
1:K:156:HIS:CD2	1:K:158:ILE:CD1	2.99	0.46
1:K:165:ILE:O	1:K:165:ILE:HG12	2.16	0.46
1:K:206:THR:HG23	1:K:208:LEU:H	1.79	0.46
2:M:31:GLN:NE2	2:M:34:VAL:HG22	2.31	0.46
2:M:374:ASN:O	2:M:374:ASN:ND2	2.49	0.46
2:M:791:ARG:HG2	2:M:791:ARG:HH11	1.81	0.46
2:M:906:PHE:CD1	3:N:1067:VAL:HG13	2.51	0.46
2:M:1040:LEU:O	2:M:1041:GLU:C	2.56	0.46
3:N:178:LEU:CD1	3:N:179:VAL:HG23	2.44	0.46
3:N:631:ILE:CD1	3:N:743:ASP:O	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:925:GLU:HG2	3:N:926:LYS:N	2.31	0.46
3:N:1007:VAL:CG1	3:N:1039:CYS:HB2	2.37	0.46
3:N:1481:VAL:HG12	3:N:1481:VAL:O	2.16	0.46
7:X:109:GLU:HG3	7:X:118:LYS:HD3	1.96	0.46
7:Z:115:THR:CB	7:Z:116:PRO:CD	2.94	0.46
1:A:83:LYS:NZ	2:C:698:ASP:OD2	2.49	0.45
1:B:57:TYR:CE1	1:B:163:ASN:OD1	2.68	0.45
1:B:152:PRO:HA	1:B:168:ASP:OD1	2.16	0.45
1:B:227:ASN:HD22	1:B:227:ASN:N	2.14	0.45
2:C:139:GLN:NE2	2:C:415:PRO:CD	2.76	0.45
2:C:336:VAL:O	2:C:339:LEU:HB2	2.16	0.45
2:C:391:LEU:HD23	2:C:391:LEU:C	2.41	0.45
2:C:671:ASN:OD1	2:C:993:PHE:HD2	1.99	0.45
2:C:1098:ASP:O	3:D:10:ILE:HA	2.16	0.45
3:D:129:PHE:O	3:D:130:SER:OG	2.30	0.45
3:D:589:ALA:HA	3:D:590:PRO:HD3	1.74	0.45
3:D:814:ALA:O	3:D:818:ARG:HG3	2.15	0.45
3:D:953:ASP:OD1	3:D:1019:PRO:HG2	2.17	0.45
3:D:996:TRP:O	3:D:999:THR:HG22	2.16	0.45
3:D:1340:GLY:O	3:D:1344:VAL:HG23	2.15	0.45
3:D:1472:ILE:HD13	3:D:1474:ALA:O	2.15	0.45
1:F:156:HIS:CD2	1:F:158:ILE:CD1	2.99	0.45
3:I:204:LEU:HB3	3:I:394:LEU:CG	2.26	0.45
3:I:481:MET:O	3:I:489:ARG:HB2	2.17	0.45
3:I:525:ARG:HG3	3:I:540:LEU:HD13	1.98	0.45
3:I:608:SER:HB3	3:I:1443:THR:OG1	2.16	0.45
3:I:667:ALA:HA	3:I:668:PRO:HD3	1.72	0.45
3:I:791:TYR:CD1	3:I:1022:VAL:HG11	2.51	0.45
3:I:813:LEU:CD1	3:I:814:ALA:N	2.73	0.45
3:I:1231:GLU:CB	3:I:1232:PRO:HD3	2.45	0.45
1:L:80:LEU:HD12	1:L:83:LYS:HE3	1.98	0.45
1:L:149:GLY:O	1:L:171:PHE:HB2	2.17	0.45
2:M:308:ARG:O	2:M:308:ARG:HG3	2.15	0.45
2:M:907:ASP:CG	2:M:907:ASP:O	2.59	0.45
3:N:153:LEU:C	3:N:153:LEU:HD12	2.42	0.45
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.96	0.45
4:O:70:THR:OG1	4:O:72:ARG:CG	2.64	0.45
7:Y:84:GLY:O	7:Y:87:SER:OG	2.28	0.45
7:Z:89:VAL:CG1	7:Z:90:GLU:N	2.78	0.45
1:B:73:GLU:HG3	1:B:130:ALA:CB	2.46	0.45
2:C:95:TYR:HB3	2:C:114:PHE:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:207:LEU:CD2	2:C:221:LEU:CD2	2.90	0.45
2:C:267:TYR:HD2	2:C:267:TYR:O	2.00	0.45
2:C:325:ILE:N	2:C:325:ILE:CD1	2.66	0.45
2:C:367:LEU:HD13	2:C:372:LEU:HD11	1.98	0.45
3:D:44:LEU:O	3:D:50:PHE:HE1	1.95	0.45
3:D:169:TYR:HE2	3:D:197:SER:HA	1.77	0.45
3:D:348:GLN:HB2	3:D:351:MET:CE	2.46	0.45
3:D:617:ASN:HB2	3:D:1467:ILE:HG23	1.98	0.45
3:D:841:TYR:HB2	3:D:864:VAL:HG11	1.96	0.45
3:D:994:GLN:OE1	3:D:994:GLN:HA	2.16	0.45
3:D:1223:ILE:HD11	3:D:1462:LEU:CD1	2.46	0.45
1:F:21:GLY:HA3	1:F:207:PRO:CB	2.46	0.45
1:G:38:ASN:O	1:G:41:ARG:HB3	2.15	0.45
1:G:143:ARG:HD3	1:G:158:ILE:HG21	1.98	0.45
2:H:170:PRO:HB2	2:H:172:ILE:HD11	1.97	0.45
2:H:189:ARG:HD3	2:H:189:ARG:HA	1.69	0.45
2:H:214:TYR:C	2:H:214:TYR:CD1	2.95	0.45
2:H:221:LEU:HD12	2:H:222:MET:N	2.31	0.45
2:H:289:THR:C	2:H:291:ALA:N	2.75	0.45
3:I:111:LYS:HE3	3:I:1449:GLU:HA	1.98	0.45
3:I:141:ILE:CD1	3:I:448:GLU:OE2	2.64	0.45
3:I:166:GLN:HE21	3:I:396:VAL:HG12	1.78	0.45
3:I:204:LEU:HD11	3:I:441:ARG:NH2	2.23	0.45
3:I:433:GLY:CA	3:I:447:VAL:O	2.65	0.45
3:I:1206:GLY:HA3	3:I:1366:LYS:HZ3	1.80	0.45
2:M:162:ILE:CG2	2:M:172:ILE:HD13	2.46	0.45
2:M:194:VAL:O	2:M:195:LEU:C	2.59	0.45
2:M:857:ASP:HB2	2:M:978:ARG:CG	2.40	0.45
2:M:946:ARG:HH11	2:M:946:ARG:CB	2.25	0.45
3:N:99:ALA:O	3:N:514:LEU:N	2.48	0.45
3:N:189:GLN:HE21	3:N:189:GLN:HB3	1.60	0.45
3:N:660:LYS:NZ	3:N:660:LYS:CA	2.79	0.45
3:N:720:LEU:H	3:N:720:LEU:HD12	1.81	0.45
3:N:1258:ARG:NH2	3:N:1351:GLU:HG2	2.29	0.45
7:X:32:ILE:HG22	7:X:33:LEU:N	2.31	0.45
7:Y:89:VAL:HG12	7:Y:91:LEU:HD23	1.97	0.45
1:A:9:PRO:CB	1:A:25:LEU:HD11	2.46	0.45
2:C:66:LEU:HD22	2:C:372:LEU:HD22	1.97	0.45
2:C:137:VAL:O	2:C:391:LEU:HD21	2.16	0.45
2:C:175:GLU:N	2:C:183:SER:O	2.39	0.45
2:C:285:LEU:HG	2:C:286:SER:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:363:SER:OG	2:C:366:SER:CB	2.64	0.45
2:C:710:ILE:HB	2:C:790:LEU:HB2	1.98	0.45
2:C:911:GLU:CD	3:D:951:ILE:HD13	2.36	0.45
2:C:946:ARG:HH11	2:C:946:ARG:CB	2.25	0.45
3:D:1026:SER:C	3:D:1028:ALA:N	2.74	0.45
3:D:1262:LEU:HD12	3:D:1262:LEU:HA	1.84	0.45
2:H:9:ILE:HD13	2:H:536:PRO:CD	2.47	0.45
2:H:272:ALA:O	2:H:276:LYS:NZ	2.33	0.45
2:H:554:ASP:HB2	2:H:880:MET:HB2	1.97	0.45
3:I:762:GLN:NE2	4:J:20:THR:CG2	2.54	0.45
3:I:994:GLN:OE1	3:I:994:GLN:HA	2.17	0.45
4:J:32:ARG:HB2	4:J:32:ARG:HH11	1.82	0.45
1:K:64:GLU:CD	2:M:830:LYS:HE2	2.41	0.45
1:L:211:LEU:O	1:L:214:ALA:HB3	2.17	0.45
2:M:144:PRO:O	2:M:276:LYS:CE	2.65	0.45
2:M:267:TYR:CE1	2:M:273:GLY:HA3	2.52	0.45
2:M:756:VAL:HB	2:M:790:LEU:HB3	1.98	0.45
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.98	0.45
2:M:897:LEU:HD21	2:M:921:ALA:N	2.32	0.45
2:M:1086:ARG:CD	3:N:88:TYR:CE2	2.96	0.45
2:M:1096:ALA:HB1	3:N:12:LEU:CD2	2.46	0.45
3:N:116:LEU:O	3:N:117:ASP:HB3	2.16	0.45
3:N:813:LEU:HD12	3:N:813:LEU:C	2.41	0.45
3:N:1145:TYR:CG	3:N:1146:GLY:N	2.85	0.45
3:N:1488:ASP:C	3:N:1490:LYS:N	2.74	0.45
4:O:57:ASP:N	4:O:58:PRO:HD3	2.30	0.45
7:Y:128:ALA:HB2	7:Y:140:LEU:HD21	1.97	0.45
1:B:56:VAL:HG21	1:B:82:LEU:HD13	1.97	0.45
2:C:12:VAL:CB	2:C:472:ARG:HH11	2.30	0.45
2:C:22:GLN:HE21	2:C:336:VAL:CG2	2.29	0.45
2:C:64:LEU:HD13	2:C:359:MET:HG2	1.97	0.45
2:C:273:GLY:HA2	2:C:276:LYS:HZ2	1.80	0.45
2:C:334:ARG:O	2:C:339:LEU:HD11	2.16	0.45
2:C:462:ASP:HB3	2:C:468:ARG:HD2	1.99	0.45
2:C:499:ALA:HA	2:C:532:MET:HE3	1.97	0.45
2:C:540:PHE:HZ	3:D:1070:TYR:HD1	1.64	0.45
2:C:674:VAL:HB	2:C:869:VAL:HG13	1.98	0.45
2:C:854:PRO:O	2:C:855:VAL:C	2.59	0.45
2:C:966:LEU:HD21	2:C:986:PRO:HG2	1.97	0.45
3:D:171:LEU:HB2	3:D:392:SER:HA	1.98	0.45
3:D:759:ALA:O	3:D:763:MET:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1113:GLY:N	3:D:1195:GLN:OE1	2.50	0.45
3:D:1138:ALA:O	3:D:1141:GLU:HB2	2.17	0.45
3:D:1208:ASP:O	3:D:1215:VAL:HG22	2.16	0.45
3:D:1289:LYS:C	3:D:1290:LEU:HD12	2.41	0.45
1:F:72:LYS:HE2	2:H:641:PRO:O	2.16	0.45
2:H:17:PRO:HD2	2:H:20:GLU:OE2	2.17	0.45
2:H:252:LYS:O	2:H:253:ALA:C	2.59	0.45
2:H:281:LEU:CD1	2:H:306:THR:HA	2.46	0.45
2:H:332:ARG:NE	2:H:464:LEU:HG	2.32	0.45
2:H:424:GLY:O	2:H:425:PHE:C	2.60	0.45
2:H:863:ASP:O	2:H:865:THR:N	2.48	0.45
2:H:1005:MET:HE3	2:H:1005:MET:HB2	1.89	0.45
2:H:1019:GLN:OE1	3:I:621:LYS:HD3	2.13	0.45
2:H:1068:GLU:O	2:H:1071:ILE:HB	2.17	0.45
3:I:956:ILE:HD12	3:I:956:ILE:N	2.30	0.45
3:I:1045:MET:O	3:I:1053:PHE:HB2	2.17	0.45
1:K:65:PHE:HE1	2:M:799:ILE:HG13	1.81	0.45
1:L:227:ASN:HD22	1:L:227:ASN:N	2.14	0.45
2:M:48:PHE:HA	2:M:348:LEU:HD21	1.98	0.45
2:M:141:HIS:CD2	2:M:141:HIS:C	2.94	0.45
2:M:571:LEU:CD1	2:M:701:THR:N	2.78	0.45
2:M:797:GLY:C	2:M:827:VAL:HG11	2.42	0.45
2:M:1047:HIS:O	2:M:1051:GLU:HB2	2.17	0.45
2:M:1068:GLU:O	2:M:1071:ILE:HB	2.17	0.45
3:N:36:THR:C	3:N:38:LYS:H	2.24	0.45
3:N:400:VAL:HG13	3:N:400:VAL:O	2.16	0.45
3:N:593:ASN:O	3:N:594:PRO:C	2.60	0.45
3:N:832:ARG:HA	3:N:832:ARG:NE	2.31	0.45
3:N:1092:GLY:O	3:N:1095:THR:OG1	2.24	0.45
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.26	0.45
3:N:1209:LEU:CD2	3:N:1211:MET:H	2.24	0.45
3:N:1287:GLU:C	3:N:1289:LYS:H	2.25	0.45
3:N:1348:LEU:HD23	3:N:1372:VAL:HG23	1.99	0.45
3:N:1375:MET:C	3:N:1376:MET:HG3	2.40	0.45
3:N:1428:ALA:O	3:N:1431:THR:HG22	2.17	0.45
7:Y:18:GLN:NE2	7:Y:65:LEU:HD21	2.32	0.45
1:A:10:VAL:O	1:A:12:THR:HG23	2.16	0.45
1:A:42:ARG:HH11	1:B:34:VAL:HG12	1.80	0.45
1:B:52:ALA:HB2	1:B:170:VAL:O	2.16	0.45
2:C:76:PRO:O	2:C:77:PRO:C	2.60	0.45
2:C:204:GLN:NE2	2:C:228:ALA:CB	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:263:ASP:C	2:C:264:PRO:O	2.60	0.45
2:C:548:PRO:HG2	2:C:842:ARG:NH2	2.32	0.45
2:C:642:ARG:O	2:C:642:ARG:CD	2.56	0.45
2:C:657:ASP:OD1	2:C:662:GLU:C	2.60	0.45
2:C:1008:ARG:HH12	2:C:1011:GLY:N	2.15	0.45
2:C:1046:ALA:HB3	2:C:1047:HIS:HD2	1.80	0.45
3:D:1139:ASP:O	3:D:1142:ALA:HB3	2.16	0.45
3:D:1426:LYS:HA	3:D:1429:LEU:HB2	1.99	0.45
2:H:90:TYR:O	2:H:90:TYR:HD1	2.00	0.45
2:H:307:LEU:HD11	2:H:311:PHE:CE2	2.52	0.45
2:H:577:PRO:HG3	2:H:993:PHE:CZ	2.51	0.45
3:I:116:LEU:O	3:I:117:ASP:HB3	2.16	0.45
3:I:191:LEU:HD21	3:I:203:ALA:CB	2.47	0.45
3:I:465:LEU:HD22	3:I:510:GLU:CA	2.46	0.45
3:I:660:LYS:NZ	3:I:660:LYS:CA	2.79	0.45
3:I:759:ALA:O	3:I:763:MET:HB3	2.17	0.45
3:I:1273:VAL:HG21	3:I:1305:LEU:HD21	1.97	0.45
3:I:1434:TRP:CG	3:I:1435:LEU:N	2.84	0.45
1:K:61:VAL:HG13	1:K:66:SER:HB3	1.99	0.45
2:M:39:ARG:NH1	2:M:70:GLU:HA	2.31	0.45
2:M:54:ILE:O	2:M:65:VAL:HA	2.17	0.45
2:M:200:LEU:HB3	2:M:300:ASP:OD1	2.15	0.45
2:M:1084:SER:C	2:M:1087:VAL:HG12	2.41	0.45
2:M:1093:GLN:CB	3:N:21:TRP:CZ3	2.72	0.45
3:N:111:LYS:C	3:N:512:MET:HE1	2.42	0.45
3:N:149:LYS:CE	3:N:149:LYS:H	2.30	0.45
3:N:157:GLU:O	3:N:161:LEU:N	2.50	0.45
3:N:158:TYR:HE1	3:N:452:ILE:HD11	1.81	0.45
3:N:373:PRO:CA	3:N:376:GLU:CD	2.77	0.45
3:N:407:VAL:HG21	3:N:437:VAL:HG11	1.98	0.45
3:N:464:LEU:HD23	3:N:464:LEU:HA	1.73	0.45
3:N:642:CYS:O	3:N:642:CYS:SG	2.74	0.45
3:N:827:ILE:H	3:N:827:ILE:CD1	2.28	0.45
3:N:1045:MET:HG3	3:N:1073:SER:OG	2.17	0.45
3:N:1256:LEU:O	3:N:1260:ILE:N	2.46	0.45
3:N:1330:ILE:HG22	3:N:1331:ASP:N	2.30	0.45
3:N:1397:LYS:NZ	3:N:1432:LYS:NZ	2.65	0.45
7:X:21:ARG:O	7:X:25:ARG:HG3	2.16	0.45
7:X:123:SER:O	7:X:127:LYS:N	2.47	0.45
1:A:174:VAL:HG13	1:A:200:TRP:O	2.17	0.45
1:B:149:GLY:O	1:B:171:PHE:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:81:ASP:HA	2:C:84:ARG:NH1	2.31	0.45
2:C:224:GLU:HB3	2:C:228:ALA:CA	2.42	0.45
2:C:1096:ALA:O	2:C:1097:LEU:C	2.60	0.45
3:D:13:ALA:HB1	3:D:18:ILE:CD1	2.46	0.45
3:D:96:ALA:CB	3:D:554:LEU:HD23	2.37	0.45
3:D:162:ARG:HA	3:D:162:ARG:HD2	1.45	0.45
3:D:402:PRO:HA	3:D:443:VAL:HG23	1.98	0.45
3:D:771:SER:HB2	3:D:778:LEU:CD1	2.37	0.45
3:D:970:LYS:CE	7:X:113:LEU:HD23	2.46	0.45
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.51	0.45
1:F:92:PRO:C	1:F:94:LEU:N	2.73	0.45
2:H:332:ARG:NH1	2:H:338:GLU:CD	2.73	0.45
3:I:127:LEU:HD22	3:I:134:VAL:CG1	2.45	0.45
3:I:451:ASP:C	3:I:452:ILE:CG2	2.89	0.45
3:I:465:LEU:HD21	3:I:509:PRO:CB	2.44	0.45
3:I:546:ARG:HG2	3:I:546:ARG:NH1	2.32	0.45
3:I:557:LEU:CD2	3:I:566:ILE:HG21	2.47	0.45
3:I:755:ALA:O	3:I:758:GLU:HG2	2.15	0.45
3:I:1288:GLU:C	3:I:1307:LYS:HG2	2.41	0.45
3:I:1347:TYR:HD2	3:I:1348:LEU:HD12	1.81	0.45
4:J:25:LYS:HA	4:J:28:GLN:CD	2.41	0.45
4:J:47:LYS:C	4:J:54:LEU:HD12	2.42	0.45
1:L:65:PHE:CE1	3:N:813:LEU:HD22	2.52	0.45
1:L:142:VAL:HG23	1:L:142:VAL:O	2.17	0.45
2:M:178:PRO:C	2:M:180:GLY:H	2.25	0.45
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.22	0.45
2:M:399:ASN:OD1	2:M:402:SER:CB	2.60	0.45
3:N:148:GLU:CG	3:N:151:GLN:CB	2.94	0.45
3:N:355:VAL:CG1	3:N:356:PRO:HD2	2.47	0.45
3:N:486:ARG:HA	3:N:489:ARG:CG	2.35	0.45
3:N:720:LEU:HD12	3:N:720:LEU:N	2.32	0.45
3:N:1257:PRO:CA	3:N:1260:ILE:CD1	2.87	0.45
3:N:1274:ILE:HD12	3:N:1274:ILE:C	2.41	0.45
3:N:1369:GLU:HA	3:N:1372:VAL:HG12	1.96	0.45
3:N:1491:THR:HA	3:N:1494:ALA:HB3	1.99	0.45
4:O:45:ARG:HH21	4:O:63:TRP:HH2	1.64	0.45
7:Y:111:ASN:HD21	7:Y:113:LEU:HD12	1.82	0.45
7:Z:89:VAL:HG13	7:Z:151:VAL:HG13	1.99	0.45
7:Z:105:VAL:O	7:Z:121:ASP:N	2.49	0.45
1:A:70:GLY:N	2:C:607:ASP:OD1	2.46	0.45
1:B:29:GLU:HB2	1:B:32:PHE:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:76:VAL:HB	3:D:872:ARG:NH1	2.32	0.45
2:C:64:LEU:HB2	2:C:359:MET:CE	2.46	0.45
2:C:273:GLY:HA2	2:C:276:LYS:CD	2.47	0.45
2:C:368:THR:O	2:C:369:PRO:C	2.58	0.45
2:C:516:ARG:HD2	3:D:1068:LEU:HD22	1.99	0.45
2:C:699:PHE:HB3	2:C:700:TYR:HD1	1.81	0.45
2:C:950:LEU:O	2:C:950:LEU:CD1	2.65	0.45
3:D:115:LEU:HD12	3:D:502:PHE:CE1	2.51	0.45
3:D:179:VAL:HG13	3:D:183:GLU:CB	2.44	0.45
3:D:210:ARG:CZ	3:D:389:GLU:OE2	2.65	0.45
3:D:465:LEU:HD22	3:D:510:GLU:CA	2.46	0.45
3:D:835:SER:N	3:D:838:ARG:HD3	2.32	0.45
3:D:875:THR:CG2	3:D:879:ARG:CB	2.95	0.45
3:D:1107:VAL:HG13	3:D:1200:VAL:O	2.17	0.45
3:D:1118:ILE:HG13	3:D:1192:LEU:HD12	1.99	0.45
3:D:1434:TRP:HZ3	3:D:1457:ASP:N	2.14	0.45
1:F:26:GLU:HB3	1:F:194:LYS:HG3	1.98	0.45
1:F:124:ASN:HD21	1:F:127:LEU:CD2	2.26	0.45
2:H:146:VAL:HG22	2:H:162:ILE:HG12	1.99	0.45
2:H:403:SER:O	2:H:407:LYS:HG3	2.17	0.45
2:H:595:LEU:HG	2:H:655:LEU:HD12	1.98	0.45
2:H:631:SER:CB	2:H:637:LEU:HD11	2.47	0.45
2:H:729:LEU:HD23	2:H:729:LEU:C	2.41	0.45
2:H:897:LEU:HD21	2:H:921:ALA:N	2.32	0.45
2:H:987:ILE:HD12	3:I:948:THR:CG2	2.46	0.45
3:I:87:ARG:HA	3:I:87:ARG:HD3	1.61	0.45
3:I:687:VAL:O	3:I:690:ALA:HB3	2.16	0.45
3:I:835:SER:N	3:I:838:ARG:HD3	2.32	0.45
3:I:875:THR:CG2	3:I:879:ARG:CB	2.94	0.45
3:I:1045:MET:HG3	3:I:1073:SER:OG	2.17	0.45
3:I:1258:ARG:CZ	3:I:1262:LEU:HD13	2.47	0.45
1:K:11:PHE:HB2	1:K:25:LEU:CD1	2.46	0.45
1:K:26:GLU:HB3	1:K:194:LYS:HG3	1.99	0.45
2:M:12:VAL:HG21	2:M:472:ARG:NH1	2.32	0.45
2:M:69:LEU:HB2	2:M:97:ARG:O	2.16	0.45
2:M:100:LEU:CD2	2:M:372:LEU:HD21	2.47	0.45
2:M:154:ARG:HH12	2:M:177:GLU:HA	1.82	0.45
2:M:697:ARG:HD2	2:M:699:PHE:CE1	2.50	0.45
2:M:730:SER:O	2:M:734:LEU:HD22	2.16	0.45
2:M:969:GLN:HE21	2:M:969:GLN:HB3	1.47	0.45
2:M:1019:GLN:HG3	3:N:621:LYS:HD2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:50:PHE:CB	3:N:522:PRO:CG	2.87	0.45
3:N:141:ILE:HG23	3:N:162:ARG:NH1	2.32	0.45
3:N:835:SER:N	3:N:838:ARG:CD	2.79	0.45
3:N:994:GLN:OE1	3:N:994:GLN:HA	2.16	0.45
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.43	0.45
3:N:1275:SER:HB2	3:N:1294:VAL:HG21	1.97	0.45
7:Y:31:LYS:HE2	7:Y:31:LYS:HB3	1.72	0.45
7:Z:5:VAL:CG2	7:Z:71:ARG:NH1	2.80	0.45
7:Z:153:ALA:C	7:Z:154:ILE:HG13	2.39	0.45
1:A:61:VAL:HG13	1:A:66:SER:HB3	1.99	0.45
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.98	0.45
2:C:148:PHE:CE2	2:C:160:ALA:HB1	2.52	0.45
2:C:191:PHE:CD2	2:C:195:LEU:HD23	2.47	0.45
2:C:267:TYR:OH	2:C:289:THR:CG2	2.64	0.45
2:C:267:TYR:O	2:C:268:ASP:C	2.60	0.45
2:C:395:LYS:HE2	2:C:397:GLU:CD	2.42	0.45
2:C:631:SER:CB	2:C:637:LEU:HD11	2.47	0.45
2:C:878:SER:HB3	3:D:1029:ARG:HD3	1.99	0.45
3:D:618:LEU:HD21	3:D:1463:LYS:CE	2.45	0.45
3:D:639:LEU:CD1	3:D:640:HIS:N	2.79	0.45
3:D:720:LEU:HD12	3:D:720:LEU:N	2.32	0.45
3:D:783:ARG:CZ	7:X:41:ASP:CB	2.95	0.45
3:D:1486:VAL:HG12	4:E:22:VAL:HG12	1.97	0.45
1:F:216:GLU:CD	1:F:219:ARG:HH21	2.25	0.45
1:G:45:LEU:HD11	1:G:177:VAL:HG22	1.99	0.45
1:G:95:GLN:HA	1:G:146:ARG:HD2	1.97	0.45
2:H:342:ASP:HA	2:H:345:ARG:CD	2.42	0.45
2:H:859:PRO:HB2	2:H:867:VAL:CG2	2.46	0.45
2:H:873:PRO:HB3	3:I:949:ILE:HD12	1.98	0.45
3:I:813:LEU:HD12	3:I:813:LEU:C	2.41	0.45
1:K:178:ALA:HB2	2:M:864:GLY:H	1.81	0.45
1:L:83:LYS:HE2	1:L:167:VAL:CG1	2.47	0.45
2:M:443:THR:HA	2:M:444:PRO:HD3	1.74	0.45
2:M:465:GLY:O	2:M:466:PHE:C	2.59	0.45
2:M:487:THR:CG2	2:M:489:THR:OG1	2.65	0.45
2:M:592:LEU:N	2:M:592:LEU:HD23	2.32	0.45
2:M:1056:LYS:HD3	3:N:623:VAL:HG11	1.97	0.45
3:N:639:LEU:CD1	3:N:640:HIS:N	2.79	0.45
3:N:1045:MET:O	3:N:1053:PHE:HB2	2.17	0.45
4:O:68:LEU:HA	4:O:73:LEU:CD1	2.47	0.45
7:X:22:GLU:OE2	7:X:25:ARG:NH1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:ARG:O	1:A:201:THR:OG1	2.35	0.45
2:C:26:TYR:HD1	2:C:26:TYR:HA	1.66	0.45
2:C:88:LEU:HD13	2:C:88:LEU:C	2.41	0.45
2:C:496:ILE:O	2:C:515:ALA:HB1	2.17	0.45
3:D:28:LYS:HG3	3:D:29:PRO:CD	2.47	0.45
3:D:116:LEU:O	3:D:116:LEU:HD23	2.17	0.45
3:D:204:LEU:HD13	3:D:441:ARG:HH12	1.81	0.45
3:D:650:LEU:CD1	3:D:688:TRP:HZ3	2.26	0.45
3:D:841:TYR:O	3:D:864:VAL:HG12	2.17	0.45
3:D:880:ILE:CG2	3:D:881:LEU:N	2.79	0.45
3:D:1042:ARG:HH11	3:D:1042:ARG:HB2	1.81	0.45
3:D:1045:MET:O	3:D:1053:PHE:HB2	2.17	0.45
1:G:211:LEU:O	1:G:214:ALA:HB3	2.17	0.45
2:H:121:MET:HE3	2:H:125:GLY:O	2.16	0.45
2:H:137:VAL:HG23	2:H:391:LEU:HD21	1.98	0.45
2:H:277:ALA:O	2:H:278:GLU:C	2.60	0.45
2:H:304:LEU:H	2:H:304:LEU:CD2	2.25	0.45
2:H:754:ILE:N	2:H:754:ILE:CD1	2.71	0.45
2:H:1007:ALA:O	2:H:1027:PHE:CE2	2.70	0.45
2:H:1016:ILE:HG13	2:H:1017:THR:N	2.32	0.45
3:I:557:LEU:HD22	3:I:566:ILE:CG2	2.47	0.45
3:I:720:LEU:H	3:I:720:LEU:HD12	1.81	0.45
3:I:720:LEU:HD12	3:I:720:LEU:N	2.32	0.45
3:I:925:GLU:HG2	3:I:926:LYS:N	2.31	0.45
3:I:1084:THR:HA	3:I:1087:ARG:CD	2.47	0.45
3:I:1144:LEU:HA	3:I:1147:ARG:HG3	1.99	0.45
3:I:1155:VAL:HG12	3:I:1177:ALA:HB1	1.99	0.45
3:I:1261:GLU:O	3:I:1264:GLU:O	2.34	0.45
3:I:1491:THR:HA	3:I:1494:ALA:HB3	1.97	0.45
1:K:65:PHE:HE1	2:M:799:ILE:CG1	2.30	0.45
1:K:174:VAL:HG13	1:K:200:TRP:O	2.17	0.45
2:M:39:ARG:HD2	2:M:45:GLN:CG	2.47	0.45
2:M:449:ILE:HD13	3:N:1081:GLY:C	2.42	0.45
2:M:557:ARG:HD3	2:M:879:ARG:HB3	1.99	0.45
2:M:854:PRO:C	2:M:856:GLU:N	2.74	0.45
3:N:963:TYR:HD2	3:N:1002:LYS:HD3	1.81	0.45
1:B:74:ASP:CG	3:D:872:ARG:HH22	2.22	0.45
1:B:81:ASN:O	1:B:84:GLU:HB3	2.17	0.45
1:B:165:ILE:N	1:B:165:ILE:CD1	2.76	0.45
2:C:265:ARG:N	2:C:289:THR:HG21	2.19	0.45
2:C:267:TYR:CG	2:C:272:ALA:HB1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:426:ASP:OD1	2:C:426:ASP:O	2.35	0.45
2:C:907:ASP:CG	2:C:907:ASP:O	2.59	0.45
2:C:1097:LEU:CD1	3:D:1451:ALA:HA	2.47	0.45
3:D:153:LEU:HD12	3:D:153:LEU:O	2.17	0.45
3:D:212:ARG:HB3	3:D:386:HIS:HB2	1.99	0.45
3:D:1381:VAL:HB	3:D:1389:LEU:HA	1.99	0.45
4:E:60:ALA:O	4:E:63:TRP:HB2	2.17	0.45
1:F:18:ARG:HH12	1:F:88:ARG:NE	2.15	0.45
1:G:227:ASN:HD22	1:G:227:ASN:N	2.14	0.45
2:H:96:ALA:O	2:H:98:LEU:HD11	2.17	0.45
2:H:191:PHE:HB2	2:H:241:LEU:CD1	2.47	0.45
2:H:496:ILE:H	2:H:496:ILE:CD1	2.29	0.45
2:H:576:ALA:CB	2:H:900:ARG:NH1	2.60	0.45
2:H:907:ASP:CG	2:H:907:ASP:O	2.59	0.45
2:H:915:LYS:HE2	2:H:968:LEU:O	2.17	0.45
2:H:950:LEU:O	2:H:950:LEU:CD1	2.65	0.45
2:H:1088:LEU:HD21	3:I:614:PHE:CZ	2.51	0.45
3:I:157:GLU:O	3:I:161:LEU:N	2.40	0.45
3:I:189:GLN:HG2	3:I:190:GLU:N	2.32	0.45
3:I:827:ILE:H	3:I:827:ILE:CD1	2.28	0.45
3:I:835:SER:N	3:I:838:ARG:CD	2.79	0.45
3:I:1114:THR:CG2	3:I:1114:THR:O	2.64	0.45
2:M:54:ILE:O	2:M:54:ILE:HG22	2.15	0.45
2:M:54:ILE:HG22	2:M:66:LEU:H	1.82	0.45
2:M:154:ARG:HH12	2:M:178:PRO:N	2.15	0.45
2:M:588:VAL:HG12	2:M:661:SER:HB3	1.98	0.45
2:M:600:ASP:OD1	2:M:649:VAL:O	2.35	0.45
2:M:671:ASN:OD1	2:M:993:PHE:HD2	2.00	0.45
3:N:415:VAL:O	3:N:432:TYR:HA	2.16	0.45
3:N:875:THR:CG2	3:N:879:ARG:CB	2.95	0.45
7:X:78:GLY:O	7:X:156:GLY:HA2	2.16	0.45
7:X:89:VAL:HG13	7:X:151:VAL:HG13	1.98	0.45
7:Z:75:LEU:O	7:Z:77:GLU:HG3	2.17	0.45
7:Z:125:MET:C	7:Z:125:MET:SD	2.99	0.45
1:A:186:LEU:CD2	1:A:187:GLY:N	2.77	0.44
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.99	0.44
2:C:148:PHE:HE1	2:C:309:TYR:HB3	1.76	0.44
2:C:187:ASN:O	2:C:187:ASN:OD1	2.36	0.44
2:C:571:LEU:HD12	2:C:701:THR:C	2.42	0.44
2:C:1052:MET:SD	2:C:1056:LYS:CD	3.06	0.44
2:C:1068:GLU:O	2:C:1071:ILE:HB	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:54:LYS:CG	3:D:55:ASP:H	2.29	0.44
3:D:116:LEU:HD23	3:D:116:LEU:C	2.42	0.44
3:D:643:GLY:N	3:D:727:GLN:O	2.50	0.44
3:D:957:PRO:HG2	3:D:1007:VAL:CA	2.47	0.44
3:D:1144:LEU:HD22	3:D:1166:LEU:CD1	2.47	0.44
1:G:66:SER:OG	1:G:75:VAL:HG21	2.17	0.44
2:H:11:GLU:HG2	2:H:537:LYS:NZ	2.33	0.44
2:H:129:ILE:HD11	2:H:386:PHE:CD2	2.49	0.44
2:H:185:LYS:CG	2:H:190:LYS:HA	2.46	0.44
2:H:426:ASP:OD1	2:H:426:ASP:O	2.35	0.44
2:H:430:VAL:HG13	3:I:1075:HIS:ND1	2.31	0.44
2:H:642:ARG:O	2:H:642:ARG:CD	2.56	0.44
2:H:657:ASP:OD1	2:H:662:GLU:C	2.60	0.44
2:H:674:VAL:HG23	2:H:869:VAL:O	2.16	0.44
3:I:112:ILE:C	3:I:112:ILE:CD1	2.78	0.44
3:I:116:LEU:O	3:I:116:LEU:HD23	2.17	0.44
3:I:127:LEU:O	3:I:127:LEU:CD1	2.59	0.44
3:I:162:ARG:HB3	3:I:452:ILE:HG21	1.99	0.44
3:I:514:LEU:HD11	3:I:582:LEU:HD11	1.99	0.44
3:I:642:CYS:O	3:I:642:CYS:SG	2.74	0.44
3:I:1020:LEU:HD12	3:I:1020:LEU:HA	1.80	0.44
3:I:1043:GLY:O	3:I:1057:VAL:N	2.42	0.44
3:I:1462:LEU:N	3:I:1462:LEU:HD23	2.32	0.44
4:J:23:VAL:HG13	4:J:65:MET:HG3	1.98	0.44
1:K:30:ARG:HA	1:K:193:ASP:OD1	2.16	0.44
1:K:88:ARG:NH1	1:K:90:LEU:HD11	2.32	0.44
1:K:230:ALA:HB2	1:L:13:VAL:O	2.17	0.44
2:M:39:ARG:HD2	2:M:45:GLN:CD	2.36	0.44
2:M:197:LEU:HA	2:M:200:LEU:CD1	2.20	0.44
2:M:336:VAL:O	2:M:339:LEU:HB2	2.16	0.44
2:M:374:ASN:N	2:M:374:ASN:ND2	2.64	0.44
2:M:413:LEU:HD12	2:M:413:LEU:O	2.17	0.44
2:M:725:ASP:O	2:M:727:PRO:HD3	2.17	0.44
2:M:793:PRO:O	2:M:794:PRO:C	2.60	0.44
2:M:878:SER:HA	3:N:1034:GLN:NE2	2.31	0.44
2:M:915:LYS:HE2	2:M:968:LEU:O	2.17	0.44
3:N:160:GLU:HA	3:N:165:LYS:HB2	1.99	0.44
3:N:179:VAL:HG13	3:N:183:GLU:CB	2.47	0.44
3:N:483:HIS:CB	3:N:484:PRO:HD3	2.40	0.44
3:N:621:LYS:HA	3:N:621:LYS:HD3	1.43	0.44
3:N:795:VAL:HG12	3:N:796:ARG:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1206:GLY:HA3	3:N:1366:LYS:HZ3	1.81	0.44
3:N:1487:VAL:CG1	3:N:1488:ASP:H	2.29	0.44
5:T:18:DC:H2'	5:T:19:DC:H6	1.82	0.44
7:X:14:ARG:HB3	7:X:14:ARG:HH11	1.81	0.44
7:X:93:ASP:OD2	7:X:96:SER:OG	2.35	0.44
7:Y:78:GLY:O	7:Y:156:GLY:HA2	2.17	0.44
1:A:14:ARG:NH2	2:C:934:PHE:HZ	2.15	0.44
1:A:83:LYS:HD3	1:A:167:VAL:HG12	1.99	0.44
1:A:141:GLU:OE1	1:A:161:ARG:NH1	2.47	0.44
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.99	0.44
2:C:473:ARG:CA	2:C:531:PHE:CE1	2.99	0.44
2:C:690:ILE:HG23	2:C:852:ILE:HG23	1.99	0.44
2:C:854:PRO:C	2:C:856:GLU:N	2.74	0.44
2:C:1087:VAL:O	2:C:1091:GLU:HG3	2.18	0.44
3:D:207:PHE:CE1	2:H:283:ILE:CB	2.97	0.44
3:D:451:ASP:O	3:D:452:ILE:CG2	2.65	0.44
3:D:457:GLY:C	3:D:459:GLU:H	2.25	0.44
3:D:1109:GLU:HG2	3:D:1201:CYS:HB2	1.99	0.44
3:D:1348:LEU:HD23	3:D:1372:VAL:HG23	1.99	0.44
4:E:67:GLU:HB3	4:E:73:LEU:HD11	1.99	0.44
2:H:43:GLY:O	2:H:44:ILE:C	2.61	0.44
2:H:229:MET:CB	2:H:230:ARG:HH12	2.30	0.44
2:H:625:LEU:O	2:H:627:ARG:N	2.49	0.44
2:H:865:THR:HA	2:H:866:PRO:HD3	1.74	0.44
2:H:925:TYR:CD2	2:H:925:TYR:C	2.95	0.44
2:H:1088:LEU:HD11	3:I:614:PHE:CE1	2.52	0.44
3:I:202:VAL:HG11	3:I:445:ARG:CZ	2.48	0.44
3:I:642:CYS:HB3	3:I:716:PHE:HB3	1.99	0.44
3:I:701:LEU:HD12	3:I:701:LEU:H	1.82	0.44
3:I:761:ILE:HG21	4:J:20:THR:HG23	2.00	0.44
3:I:804:LEU:CB	3:I:830:ALA:O	2.65	0.44
3:I:827:ILE:HD12	3:I:827:ILE:N	2.27	0.44
3:I:996:TRP:O	3:I:999:THR:HG22	2.16	0.44
3:I:1325:LEU:HA	3:I:1325:LEU:HD12	1.70	0.44
1:K:124:ASN:HD21	1:K:127:LEU:CD2	2.26	0.44
1:L:56:VAL:CG2	1:L:142:VAL:HG12	2.45	0.44
1:L:73:GLU:HB2	1:L:78:ILE:HD11	2.00	0.44
2:M:35:PRO:C	2:M:37:GLU:N	2.75	0.44
2:M:63:GLY:CA	2:M:103:LYS:CG	2.94	0.44
2:M:657:ASP:OD1	2:M:662:GLU:C	2.60	0.44
3:N:115:LEU:C	3:N:115:LEU:CD2	2.89	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:189:GLN:HE21	3:N:190:GLU:N	2.14	0.44
3:N:759:ALA:O	3:N:763:MET:HB3	2.17	0.44
5:R:18:DC:H2'	5:R:19:DC:C5	2.52	0.44
1:B:80:LEU:HA	1:B:83:LYS:HE3	1.98	0.44
2:C:114:PHE:O	2:C:375:SER:OG	2.30	0.44
2:C:223:ASP:OD1	2:C:224:GLU:N	2.50	0.44
2:C:516:ARG:NE	3:D:1068:LEU:HD22	2.32	0.44
2:C:706:GLU:HB3	2:C:708:TYR:HE1	1.81	0.44
2:C:1095:LEU:HD12	2:C:1097:LEU:N	2.24	0.44
3:D:159:ARG:HH22	2:H:218:VAL:CG2	2.31	0.44
3:D:426:LYS:CE	3:D:427:VAL:HG23	2.46	0.44
3:D:704:ARG:HH22	6:Q:16:G:HO2'	1.54	0.44
3:D:1347:TYR:HD2	3:D:1348:LEU:HD12	1.81	0.44
3:D:1453:ALA:O	3:D:1454:GLY:C	2.60	0.44
1:F:58:ILE:HB	1:F:61:VAL:HB	1.99	0.44
1:G:73:GLU:HA	1:L:162:ILE:CD1	2.48	0.44
2:H:30:LEU:HB3	2:H:44:ILE:CG1	2.46	0.44
2:H:134:ARG:NH1	2:H:386:PHE:O	2.50	0.44
2:H:518:LYS:HB2	2:H:518:LYS:HE2	1.73	0.44
3:I:145:VAL:HG22	3:I:146:PRO:CD	2.44	0.44
3:I:806:PHE:HE1	3:I:813:LEU:HB3	1.80	0.44
3:I:957:PRO:HG2	3:I:1007:VAL:CA	2.47	0.44
3:I:1232:PRO:HB2	3:I:1356:TYR:HE2	1.82	0.44
3:I:1256:LEU:CD2	3:I:1260:ILE:HD11	2.48	0.44
3:I:1359:GLN:NE2	7:Y:52:LYS:HD3	2.23	0.44
1:K:79:ILE:CG1	1:K:80:LEU:N	2.75	0.44
2:M:101:ILE:CB	2:M:108:ILE:HG12	2.46	0.44
2:M:124:ASP:OD1	2:M:124:ASP:N	2.40	0.44
2:M:274:ARG:NH1	2:M:274:ARG:HG2	2.31	0.44
2:M:474:VAL:HG23	2:M:478:VAL:O	2.17	0.44
2:M:557:ARG:HH21	2:M:879:ARG:NE	2.12	0.44
2:M:874:LEU:CD1	3:N:784:ASP:CG	2.91	0.44
2:M:1008:ARG:NH2	2:M:1011:GLY:C	2.75	0.44
3:N:17:LYS:CD	3:N:21:TRP:HE1	2.30	0.44
3:N:105:VAL:HG21	3:N:128:TYR:HE1	1.83	0.44
3:N:137:PRO:HD3	3:N:453:ASP:CB	2.35	0.44
3:N:341:GLU:HA	3:N:342:PRO:HD2	1.83	0.44
3:N:701:LEU:HD12	3:N:701:LEU:H	1.82	0.44
3:N:827:ILE:C	3:N:828:LYS:CG	2.91	0.44
3:N:835:SER:N	3:N:838:ARG:HD3	2.32	0.44
3:N:970:LYS:NZ	7:Z:113:LEU:CA	2.77	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:978:TYR:C	3:N:980:MET:H	2.23	0.44
3:N:1025:GLN:NE2	3:N:1025:GLN:CA	2.79	0.44
3:N:1304:LYS:O	3:N:1306:PRO:HD3	2.18	0.44
3:N:1491:THR:C	3:N:1494:ALA:HB3	2.43	0.44
7:X:5:VAL:O	7:X:72:ALA:HA	2.18	0.44
1:A:133:GLU:OE2	2:C:605:LYS:HB3	2.18	0.44
2:C:82:GLU:OE1	2:C:86:LYS:HE3	2.17	0.44
2:C:92:ALA:N	2:C:118:ILE:O	2.40	0.44
2:C:143:SER:O	2:C:144:PRO:C	2.61	0.44
2:C:221:LEU:C	2:C:223:ASP:H	2.24	0.44
2:C:897:LEU:HD21	2:C:921:ALA:N	2.32	0.44
3:D:23:TYR:O	3:D:49:ILE:CG2	2.63	0.44
3:D:1437:ALA:C	3:D:1439:SER:N	2.71	0.44
4:E:85:LEU:HD23	4:E:85:LEU:C	2.43	0.44
1:F:165:ILE:O	1:F:165:ILE:HG12	2.16	0.44
1:G:80:LEU:O	1:G:83:LYS:HG3	2.17	0.44
1:G:82:LEU:HD11	1:G:140:MET:HE1	1.99	0.44
2:H:6:PHE:HB2	2:H:909:ALA:CA	2.46	0.44
2:H:143:SER:O	2:H:144:PRO:C	2.60	0.44
2:H:265:ARG:HG2	2:H:267:TYR:CB	2.47	0.44
2:H:399:ASN:O	2:H:402:SER:HB3	2.18	0.44
2:H:564:MET:HE2	2:H:846:LYS:CD	2.46	0.44
2:H:720:GLU:HA	2:H:759:THR:O	2.17	0.44
1:K:73:GLU:OE1	1:K:129:ILE:O	2.35	0.44
1:K:73:GLU:HB2	1:K:78:ILE:HD11	1.99	0.44
2:M:48:PHE:HA	2:M:348:LEU:CD2	2.48	0.44
2:M:254:VAL:CA	2:M:257:VAL:HG23	2.47	0.44
2:M:631:SER:CB	2:M:637:LEU:HD11	2.47	0.44
2:M:950:LEU:O	2:M:950:LEU:CD1	2.65	0.44
2:M:1087:VAL:O	2:M:1091:GLU:HG3	2.18	0.44
3:N:204:LEU:HD12	3:N:205:TYR:N	2.31	0.44
3:N:415:VAL:CG2	3:N:435:VAL:CG2	2.95	0.44
3:N:479:GLU:C	3:N:483:HIS:HD1	2.26	0.44
3:N:1066:THR:HG22	3:N:1069:GLU:CB	2.38	0.44
3:N:1444:THR:O	3:N:1448:THR:OG1	2.33	0.44
7:X:102:VAL:HG13	7:X:119:ILE:HG12	1.99	0.44
7:X:128:ALA:O	7:X:138:LEU:HD13	2.17	0.44
7:Y:115:THR:CB	7:Y:116:PRO:CD	2.91	0.44
1:A:124:ASN:HD21	1:A:127:LEU:CD2	2.26	0.44
1:A:165:ILE:O	1:A:165:ILE:HG12	2.16	0.44
1:B:206:THR:HG23	1:B:207:PRO:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:140:ILE:HD12	2:C:140:ILE:C	2.42	0.44
2:C:185:LYS:HD2	2:C:190:LYS:CE	2.47	0.44
2:C:223:ASP:O	2:C:224:GLU:C	2.56	0.44
2:C:264:PRO:CB	2:C:289:THR:HG21	2.48	0.44
2:C:282:GLY:C	2:C:283:ILE:CD1	2.87	0.44
2:C:395:LYS:O	2:C:397:GLU:N	2.50	0.44
2:C:431:HIS:CD2	2:C:433:THR:OG1	2.70	0.44
2:C:481:ASP:OD1	2:C:481:ASP:N	2.50	0.44
2:C:536:PRO:HB3	2:C:906:PHE:HD1	1.83	0.44
2:C:931:GLY:O	2:C:933:GLY:N	2.51	0.44
3:D:9:ARG:CD	3:D:1456:LYS:HE2	2.41	0.44
3:D:166:GLN:HE21	3:D:396:VAL:CG1	2.29	0.44
3:D:1310:ARG:HA	3:D:1310:ARG:HD3	1.77	0.44
3:D:1441:GLN:HE21	3:D:1441:GLN:HB3	1.58	0.44
1:F:88:ARG:NH1	1:F:90:LEU:HD11	2.32	0.44
1:G:41:ARG:NH1	1:G:177:VAL:O	2.51	0.44
1:G:86:VAL:HG13	1:G:86:VAL:O	2.18	0.44
2:H:52:PHE:CZ	2:H:98:LEU:HB3	2.51	0.44
2:H:136:ILE:CB	2:H:336:VAL:HG13	2.47	0.44
2:H:431:HIS:CD2	2:H:433:THR:OG1	2.71	0.44
2:H:464:LEU:HB3	2:H:466:PHE:HE2	1.81	0.44
2:H:548:PRO:HG2	2:H:842:ARG:NH2	2.33	0.44
2:H:1008:ARG:NH2	2:H:1011:GLY:N	2.65	0.44
2:H:1051:GLU:CG	2:H:1055:LEU:HD12	2.48	0.44
2:H:1085:PHE:HD2	3:I:1468:LEU:HA	1.82	0.44
3:I:470:LEU:O	3:I:471:GLU:C	2.61	0.44
3:I:615:ARG:HG3	3:I:619:LEU:HD11	2.00	0.44
3:I:1033:GLN:OE1	3:I:1036:ARG:NH1	2.50	0.44
3:I:1304:LYS:O	3:I:1306:PRO:HD3	2.17	0.44
3:I:1491:THR:O	3:I:1491:THR:HG22	2.16	0.44
1:K:78:ILE:HD12	1:K:130:ALA:HB2	2.00	0.44
2:M:76:PRO:O	2:M:77:PRO:C	2.60	0.44
2:M:204:GLN:OE1	2:M:204:GLN:N	2.50	0.44
2:M:235:LEU:CD1	2:M:298:PHE:HZ	2.19	0.44
2:M:267:TYR:CB	2:M:272:ALA:CB	2.81	0.44
2:M:368:THR:C	2:M:372:LEU:HD12	2.41	0.44
2:M:1046:ALA:CA	3:N:1472:ILE:HD11	2.41	0.44
2:M:1059:ASP:CG	2:M:1062:GLY:H	2.25	0.44
3:N:23:TYR:CE1	3:N:89:ARG:HG2	2.53	0.44
3:N:116:LEU:O	3:N:116:LEU:HD23	2.18	0.44
3:N:141:ILE:CD1	3:N:448:GLU:OE2	2.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:170:PRO:O	3:N:195:VAL:HG21	2.18	0.44
3:N:643:GLY:N	3:N:727:GLN:O	2.50	0.44
3:N:1232:PRO:HB2	3:N:1356:TYR:HE2	1.81	0.44
7:X:9:LYS:HB3	7:X:9:LYS:HE2	1.79	0.44
7:Y:127:LYS:HD3	7:Y:127:LYS:O	2.16	0.44
7:Z:92:GLU:HA	7:Z:98:GLU:O	2.18	0.44
1:B:211:LEU:O	1:B:214:ALA:HB3	2.17	0.44
2:C:182:VAL:HB	2:C:193:LEU:CB	2.48	0.44
2:C:358:ARG:HH12	2:C:374:ASN:ND2	2.16	0.44
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.99	0.44
2:C:480:THR:HG22	2:C:481:ASP:H	1.83	0.44
2:C:554:ASP:HB2	2:C:880:MET:HB2	2.00	0.44
2:C:640:ARG:HG2	2:C:640:ARG:HH11	1.83	0.44
2:C:754:ILE:CG1	2:C:791:ARG:HH12	2.31	0.44
2:C:915:LYS:HE2	2:C:968:LEU:O	2.17	0.44
2:C:957:LYS:CD	2:C:961:GLU:CB	2.95	0.44
2:C:1071:ILE:HG23	3:D:670:VAL:HG11	2.00	0.44
3:D:26:VAL:CG2	3:D:26:VAL:O	2.62	0.44
3:D:631:ILE:HG21	3:D:745:MET:CG	2.48	0.44
3:D:660:LYS:NZ	3:D:660:LYS:CA	2.79	0.44
3:D:727:GLN:HE21	3:D:727:GLN:HB3	1.65	0.44
3:D:1055:VAL:HA	3:D:1056:PRO:HD3	1.84	0.44
1:F:101:LEU:HD12	1:F:113:ASP:O	2.18	0.44
1:G:26:GLU:CB	1:G:27:PRO:HA	2.47	0.44
1:G:94:LEU:CD1	1:G:119:ASP:HB2	2.44	0.44
2:H:367:LEU:HA	2:H:371:LYS:HE3	1.99	0.44
2:H:685:GLU:CD	7:Y:41:ASP:OD1	2.60	0.44
2:H:1102:LEU:HD23	2:H:1106:ASP:HB3	2.00	0.44
3:I:116:LEU:HD23	3:I:116:LEU:C	2.43	0.44
3:I:1042:ARG:HH11	3:I:1042:ARG:HB2	1.82	0.44
3:I:1205:TYR:OH	3:I:1367:HIS:CE1	2.71	0.44
1:K:83:LYS:HD3	1:K:167:VAL:HG12	1.99	0.44
1:L:73:GLU:CD	1:L:130:ALA:HA	2.43	0.44
2:M:169:GLY:HA2	2:M:170:PRO:HD3	1.85	0.44
2:M:251:ASP:O	2:M:252:LYS:C	2.61	0.44
2:M:266:ARG:O	2:M:266:ARG:HD3	2.17	0.44
2:M:335:THR:O	2:M:336:VAL:C	2.61	0.44
2:M:394:PHE:CE2	5:T:20:DG:H4'	2.53	0.44
2:M:431:HIS:CD2	2:M:433:THR:OG1	2.71	0.44
2:M:591:SER:O	2:M:592:LEU:HB2	2.17	0.44
2:M:642:ARG:O	2:M:642:ARG:CD	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	2.00	0.44
2:M:1038:TRP:CE2	3:N:1099:VAL:HG11	2.53	0.44
3:N:42:ASP:H	3:N:46:ASP:HB2	1.83	0.44
3:N:368:VAL:HB	3:N:377:VAL:HG21	2.00	0.44
3:N:408:GLU:HG2	3:N:420:VAL:O	2.18	0.44
3:N:645:PRO:CD	3:N:726:ILE:HG12	2.45	0.44
3:N:729:HIS:HE2	3:N:935:LYS:HD3	1.81	0.44
3:N:1209:LEU:CD2	4:O:16:LYS:HE3	2.42	0.44
4:O:53:GLY:C	4:O:55:PHE:H	2.24	0.44
5:T:18:DC:C2	6:U:13:G:N2	2.82	0.44
1:A:58:ILE:HB	1:A:61:VAL:HB	2.00	0.44
1:A:88:ARG:NH1	1:A:90:LEU:HD11	2.32	0.44
1:B:216:GLU:C	1:B:216:GLU:CD	2.84	0.44
2:C:3:ILE:N	2:C:3:ILE:CD1	2.80	0.44
2:C:22:GLN:HE21	2:C:336:VAL:HG22	1.83	0.44
2:C:148:PHE:CE2	2:C:160:ALA:CB	3.01	0.44
2:C:673:LEU:CB	2:C:868:ASP:OD1	2.65	0.44
2:C:673:LEU:HB3	2:C:868:ASP:OD1	2.18	0.44
2:C:922:PHE:HZ	2:C:963:LEU:HB3	1.83	0.44
3:D:205:TYR:HD1	3:D:390:PRO:CB	2.30	0.44
3:D:412:GLY:HA2	3:D:434:ARG:NE	2.32	0.44
3:D:432:TYR:HB3	3:D:450:TYR:CG	2.52	0.44
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.88	0.44
3:D:644:LEU:HA	3:D:645:PRO:HD3	1.84	0.44
3:D:1045:MET:HG3	3:D:1073:SER:OG	2.17	0.44
3:D:1325:LEU:HD12	3:D:1325:LEU:HA	1.70	0.44
1:G:212:ASN:C	1:G:215:VAL:HG22	2.40	0.44
2:H:22:GLN:CD	2:H:336:VAL:CG2	2.91	0.44
2:H:72:ARG:CZ	2:H:95:TYR:CE1	3.01	0.44
2:H:141:HIS:HD1	2:H:144:PRO:HD3	1.83	0.44
2:H:167:LYS:O	2:H:167:LYS:HG2	2.17	0.44
2:H:311:PHE:N	2:H:311:PHE:CD2	2.86	0.44
2:H:861:LEU:CD2	2:H:862:PRO:HD2	2.48	0.44
3:I:631:ILE:HG21	3:I:745:MET:CG	2.48	0.44
3:I:693:GLU:HG3	4:J:48:MET:HE1	1.99	0.44
3:I:781:PRO:HB2	3:I:786:ILE:CD1	2.43	0.44
3:I:794:GLN:CG	3:I:1017:PHE:CE2	3.01	0.44
3:I:963:TYR:HD2	3:I:1002:LYS:HD3	1.81	0.44
3:I:1066:THR:HG22	3:I:1069:GLU:CB	2.38	0.44
3:I:1348:LEU:HD23	3:I:1372:VAL:HG23	1.99	0.44
4:J:54:LEU:CA	4:J:58:PRO:HG2	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:73:GLU:OE1	1:K:78:ILE:HD13	2.18	0.44
1:L:42:ARG:CG	1:L:42:ARG:NH1	2.80	0.44
2:M:278:GLU:HA	2:M:283:ILE:HA	1.99	0.44
2:M:363:SER:HB2	2:M:366:SER:CB	2.47	0.44
2:M:722:ILE:O	2:M:722:ILE:CD1	2.64	0.44
3:N:148:GLU:CB	3:N:151:GLN:HB3	2.48	0.44
3:N:183:GLU:O	3:N:185:VAL:HG23	2.18	0.44
3:N:461:ILE:HD13	3:N:461:ILE:N	2.33	0.44
3:N:502:PHE:CZ	3:N:509:PRO:HB3	2.53	0.44
3:N:881:LEU:HD12	3:N:885:ILE:HD11	1.98	0.44
3:N:1031:ASN:O	3:N:1032:PRO:C	2.60	0.44
3:N:1205:TYR:OH	3:N:1367:HIS:CE1	2.71	0.44
3:N:1384:PRO:CB	3:N:1388:ARG:NH1	2.81	0.44
7:Y:153:ALA:C	7:Y:154:ILE:HG13	2.39	0.44
7:Z:120:SER:HB2	7:Z:123:SER:OG	2.17	0.44
1:B:34:VAL:HG11	2:C:978:ARG:HB3	2.00	0.44
1:B:95:GLN:HE21	1:B:95:GLN:HB2	1.57	0.44
2:C:73:LEU:HD12	2:C:74:GLY:N	2.32	0.44
2:C:328:LEU:N	2:C:328:LEU:CD1	2.80	0.44
3:D:129:PHE:HZ	3:D:587:ARG:HD2	1.82	0.44
3:D:766:ALA:HB1	4:E:2:ALA:HB2	2.00	0.44
3:D:801:GLY:O	3:D:802:ALA:CB	2.65	0.44
3:D:1068:LEU:O	3:D:1069:GLU:C	2.61	0.44
3:D:1253:THR:HG21	3:D:1269:LYS:HG3	2.00	0.44
3:D:1277:ILE:HD12	3:D:1277:ILE:N	2.33	0.44
1:F:38:ASN:HB2	2:H:980:GLY:HA3	1.99	0.44
1:G:51:THR:HG22	1:G:144:VAL:HG12	2.00	0.44
1:G:80:LEU:HG	3:I:844:ALA:HB2	1.98	0.44
1:G:206:THR:HG23	1:G:207:PRO:N	2.32	0.44
2:H:126:SER:CB	2:H:395:LYS:HZ2	2.31	0.44
2:H:265:ARG:CB	2:H:267:TYR:CZ	2.93	0.44
2:H:322:VAL:O	2:H:322:VAL:CG2	2.62	0.44
2:H:332:ARG:CD	2:H:464:LEU:HG	2.47	0.44
2:H:341:THR:CG2	2:H:342:ASP:N	2.80	0.44
2:H:413:LEU:HD12	2:H:413:LEU:O	2.17	0.44
2:H:577:PRO:C	2:H:579:VAL:N	2.71	0.44
2:H:695:LEU:HD21	2:H:832:LYS:HB3	1.99	0.44
2:H:897:LEU:HD22	2:H:920:GLN:CG	2.48	0.44
2:H:1008:ARG:NH2	2:H:1011:GLY:O	2.51	0.44
3:I:17:LYS:CD	3:I:21:TRP:HE1	2.30	0.44
2:M:224:GLU:OE1	2:M:227:PHE:HD1	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:340:MET:HE3	2:M:340:MET:HB3	1.85	0.44
2:M:410:ILE:O	2:M:410:ILE:HG22	2.18	0.44
2:M:687:ALA:HB1	2:M:850:ALA:HB2	1.99	0.44
2:M:939:ARG:CD	2:M:982:PRO:HD3	2.47	0.44
2:M:1003:ASP:O	2:M:1004:LYS:HD3	2.17	0.44
2:M:1082:PRO:O	2:M:1085:PHE:N	2.48	0.44
3:N:9:ARG:NH1	3:N:11:ALA:HB2	2.33	0.44
3:N:982:PHE:HA	7:Z:125:MET:HB3	2.00	0.44
3:N:1155:VAL:O	3:N:1182:GLU:OE2	2.36	0.44
3:N:1384:PRO:HB3	3:N:1388:ARG:NH1	2.32	0.44
1:B:51:THR:HG22	1:B:89:PHE:CE2	2.52	0.44
2:C:129:ILE:CG2	2:C:130:ASN:N	2.62	0.44
2:C:473:ARG:HA	2:C:531:PHE:CE1	2.52	0.44
2:C:700:TYR:N	2:C:700:TYR:CD1	2.86	0.44
3:D:141:ILE:HG13	3:D:448:GLU:OE2	2.17	0.44
3:D:159:ARG:HH22	2:H:218:VAL:HB	1.82	0.44
3:D:701:LEU:HD12	3:D:701:LEU:H	1.82	0.44
3:D:827:ILE:HD12	3:D:827:ILE:N	2.27	0.44
3:D:881:LEU:O	3:D:885:ILE:HG12	2.18	0.44
3:D:881:LEU:HD12	3:D:885:ILE:HD11	1.98	0.44
3:D:991:GLN:NE2	7:X:112:VAL:CG2	2.81	0.44
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.76	0.44
1:F:189:ARG:NH1	1:F:189:ARG:HG2	2.33	0.44
2:H:16:PRO:HB3	2:H:17:PRO:CD	2.48	0.44
2:H:18:LEU:CD1	2:H:586:ARG:HH12	2.29	0.44
2:H:25:SER:CB	2:H:335:THR:HB	2.48	0.44
2:H:194:VAL:HA	2:H:197:LEU:HD12	1.99	0.44
2:H:273:GLY:HA2	2:H:276:LYS:NZ	2.33	0.44
2:H:327:HIS:C	2:H:329:GLY:N	2.75	0.44
2:H:332:ARG:HE	2:H:464:LEU:HG	1.83	0.44
2:H:946:ARG:HH11	2:H:946:ARG:CB	2.25	0.44
2:H:1095:LEU:HD12	2:H:1097:LEU:N	2.24	0.44
3:I:407:VAL:HA	3:I:422:ALA:CB	2.47	0.44
3:I:461:ILE:HD13	3:I:461:ILE:N	2.33	0.44
3:I:568:ARG:O	3:I:569:ASN:C	2.61	0.44
3:I:827:ILE:C	3:I:828:LYS:CG	2.91	0.44
3:I:940:THR:O	3:I:941:PHE:C	2.61	0.44
3:I:1304:LYS:HE2	3:I:1304:LYS:HB3	1.64	0.44
3:I:1472:ILE:HD12	3:I:1472:ILE:N	2.25	0.44
4:J:47:LYS:HA	4:J:54:LEU:CB	2.45	0.44
1:K:58:ILE:HB	1:K:61:VAL:HB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:26:GLU:CB	1:L:27:PRO:HA	2.47	0.44
2:M:174:LEU:HD22	2:M:193:LEU:CD2	2.37	0.44
2:M:403:SER:O	2:M:407:LYS:HG3	2.17	0.44
2:M:688:ILE:HG12	2:M:871:LEU:HD23	2.00	0.44
2:M:705:ILE:HG12	2:M:828:ALA:HB2	2.00	0.44
2:M:758:ARG:NH2	2:M:788:THR:HG22	2.33	0.44
2:M:931:GLY:O	2:M:933:GLY:N	2.51	0.44
3:N:176:ASP:CB	3:N:389:GLU:HG2	2.47	0.44
3:N:351:MET:HA	3:N:370:ALA:HB2	2.00	0.44
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.17	0.44
3:N:1235:GLN:HG2	7:Z:48:LEU:HD11	1.99	0.44
3:N:1262:LEU:HD12	3:N:1262:LEU:HA	1.84	0.44
3:N:1294:VAL:O	3:N:1300:SER:HA	2.18	0.44
3:N:1297:GLU:HG2	3:N:1298:GLY:H	1.75	0.44
3:N:1305:LEU:O	3:N:1306:PRO:C	2.61	0.44
3:N:1468:LEU:CD2	3:N:1470:ARG:HB2	2.32	0.44
1:A:101:LEU:HD12	1:A:113:ASP:O	2.18	0.43
1:B:73:GLU:CG	1:B:130:ALA:HA	2.48	0.43
2:C:173:ASP:O	2:C:184:MET:HA	2.18	0.43
2:C:226:VAL:HG13	2:C:227:PHE:H	1.83	0.43
2:C:447:ALA:HA	3:D:1085:ALA:HB1	1.98	0.43
2:C:939:ARG:CD	2:C:982:PRO:HD3	2.47	0.43
2:C:1013:TYR:HD1	2:C:1020:PRO:HA	1.83	0.43
2:C:1043:TYR:CE1	3:D:710:ARG:O	2.71	0.43
2:C:1084:SER:HB2	3:D:617:ASN:HD21	1.83	0.43
3:D:800:LYS:CD	3:D:804:LEU:HD13	2.48	0.43
3:D:1437:ALA:C	3:D:1439:SER:H	2.25	0.43
3:D:1459:LEU:HD22	3:D:1465:ASN:CG	2.43	0.43
4:E:24:ALA:O	4:E:25:LYS:C	2.61	0.43
1:G:45:LEU:HD11	1:G:177:VAL:CG2	2.48	0.43
1:G:56:VAL:O	1:G:165:ILE:HD13	2.18	0.43
2:H:42:VAL:CG2	2:H:43:GLY:N	2.69	0.43
2:H:64:LEU:HD22	2:H:359:MET:CG	2.48	0.43
2:H:74:GLY:C	2:H:76:PRO:HD3	2.42	0.43
2:H:238:LEU:O	2:H:241:LEU:CB	2.66	0.43
2:H:684:PHE:HB3	3:I:633:VAL:HG21	2.00	0.43
2:H:1087:VAL:O	2:H:1091:GLU:HG3	2.18	0.43
2:H:1095:LEU:CD1	2:H:1097:LEU:H	2.24	0.43
3:I:99:ALA:O	3:I:514:LEU:CA	2.66	0.43
3:I:457:GLY:C	3:I:459:GLU:H	2.26	0.43
3:I:583:ASP:OD2	3:I:604:THR:HG21	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:757:ALA:O	3:I:761:ILE:HG12	2.18	0.43
3:I:1293:PHE:CD2	3:I:1300:SER:HB2	2.53	0.43
4:J:43:GLU:O	4:J:44:GLU:HB2	2.17	0.43
1:L:77:GLU:O	1:L:80:LEU:HB2	2.17	0.43
2:M:1038:TRP:CA	2:M:1041:GLU:HG3	2.46	0.43
2:M:1041:GLU:OE1	3:N:1462:LEU:HB3	2.18	0.43
3:N:13:ALA:HB1	3:N:18:ILE:CD1	2.47	0.43
3:N:141:ILE:CD1	3:N:142:LEU:N	2.64	0.43
3:N:179:VAL:HG13	3:N:183:GLU:OE2	2.18	0.43
3:N:631:ILE:HG21	3:N:745:MET:CG	2.48	0.43
4:O:54:LEU:HA	4:O:58:PRO:CG	2.47	0.43
7:Y:94:PRO:HB2	7:Y:95:LEU:H	1.57	0.43
1:A:92:PRO:C	1:A:94:LEU:N	2.73	0.43
2:C:136:ILE:HG23	2:C:391:LEU:HD22	1.98	0.43
2:C:141:HIS:O	2:C:331:ARG:HA	2.18	0.43
2:C:449:ILE:O	2:C:451:LEU:N	2.51	0.43
2:C:479:VAL:N	2:C:506:ASN:O	2.48	0.43
2:C:673:LEU:CD2	2:C:867:VAL:HG12	2.46	0.43
2:C:897:LEU:HD22	2:C:920:GLN:CG	2.48	0.43
2:C:1035:MET:HA	2:C:1038:TRP:CZ3	2.53	0.43
3:D:54:LYS:HG3	3:D:55:ASP:N	2.34	0.43
3:D:97:THR:HB	3:D:571:LYS:CE	2.48	0.43
3:D:159:ARG:CD	2:H:222:MET:HE1	2.48	0.43
3:D:1090:ASP:O	3:D:1093:TYR:HB2	2.18	0.43
3:D:1123:PHE:HZ	3:D:1178:ALA:HB1	1.80	0.43
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.18	0.43
3:D:1468:LEU:HD22	3:D:1470:ARG:HD3	1.99	0.43
2:H:354:GLY:O	2:H:358:ARG:HD3	2.18	0.43
2:H:494:TYR:CE2	2:H:531:PHE:HE2	2.34	0.43
2:H:950:LEU:CD1	2:H:952:LEU:HD21	2.46	0.43
2:H:1056:LYS:CB	3:I:623:VAL:HG13	2.48	0.43
3:I:436:GLU:OE1	3:I:445:ARG:HG3	2.17	0.43
3:I:638:LYS:C	3:I:640:HIS:N	2.76	0.43
3:I:645:PRO:CD	3:I:726:ILE:HG12	2.45	0.43
3:I:841:TYR:O	3:I:864:VAL:HG12	2.17	0.43
3:I:1107:VAL:O	3:I:1218:GLY:N	2.47	0.43
3:I:1158:VAL:HG12	3:I:1159:ARG:N	2.33	0.43
3:I:1305:LEU:O	3:I:1306:PRO:C	2.61	0.43
3:I:1425:THR:HG23	3:I:1429:LEU:HD13	2.01	0.43
4:J:19:LEU:HD12	4:J:23:VAL:HG23	1.99	0.43
2:M:199:VAL:CG1	2:M:298:PHE:CE1	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:254:VAL:HA	2:M:257:VAL:HG23	2.00	0.43
2:M:258:TYR:O	2:M:258:TYR:CG	2.71	0.43
2:M:426:ASP:OD1	2:M:426:ASP:O	2.35	0.43
2:M:572:ILE:CD1	2:M:573:ARG:H	2.17	0.43
2:M:577:PRO:HG3	2:M:993:PHE:CZ	2.53	0.43
2:M:612:VAL:HG13	2:M:621:VAL:O	2.18	0.43
2:M:922:PHE:HZ	2:M:963:LEU:HB3	1.83	0.43
2:M:925:TYR:CD2	2:M:925:TYR:C	2.95	0.43
2:M:1102:LEU:HD23	2:M:1106:ASP:HB3	2.00	0.43
3:N:100:ALA:HB2	3:N:128:TYR:CZ	2.53	0.43
3:N:398:ALA:CB	3:N:447:VAL:HA	2.46	0.43
3:N:471:GLU:H	3:N:471:GLU:HG2	1.54	0.43
3:N:970:LYS:HG2	3:N:995:LEU:CD1	2.48	0.43
3:N:1090:ASP:OD2	3:N:1256:LEU:CD2	2.66	0.43
3:N:1422:MET:HE1	3:N:1427:SER:HA	2.00	0.43
7:X:115:THR:CB	7:X:116:PRO:CD	2.94	0.43
7:Z:21:ARG:CD	7:Z:21:ARG:N	2.81	0.43
7:Z:85:LEU:HD22	7:Z:105:VAL:HA	2.00	0.43
2:C:31:GLN:NE2	2:C:31:GLN:O	2.47	0.43
2:C:148:PHE:HD2	2:C:160:ALA:HA	1.82	0.43
2:C:189:ARG:HD2	2:C:190:LYS:H	1.83	0.43
2:C:194:VAL:O	2:C:195:LEU:C	2.60	0.43
2:C:207:LEU:HD21	2:C:221:LEU:HD22	1.99	0.43
2:C:438:ILE:HD11	2:C:467:ILE:HD12	2.00	0.43
2:C:710:ILE:HD11	2:C:758:ARG:NE	2.31	0.43
2:C:1052:MET:SD	2:C:1056:LYS:NZ	2.80	0.43
2:C:1102:LEU:HD23	2:C:1106:ASP:HB3	2.00	0.43
2:C:1105:LYS:O	2:C:1107:ASN:N	2.51	0.43
3:D:593:ASN:HB3	3:D:594:PRO:HD2	2.01	0.43
3:D:683:ILE:CD1	3:D:687:VAL:HG21	2.36	0.43
3:D:1205:TYR:OH	3:D:1367:HIS:CE1	2.70	0.43
3:D:1452:ILE:HG22	3:D:1453:ALA:N	2.32	0.43
2:H:185:LYS:HG2	2:H:190:LYS:CA	2.48	0.43
2:H:258:TYR:CE2	2:H:290:LEU:CD1	2.97	0.43
3:I:160:GLU:CG	3:I:165:LYS:HG3	2.32	0.43
3:I:470:LEU:CB	3:I:503:LEU:HD21	2.44	0.43
3:I:502:PHE:CZ	3:I:509:PRO:HB3	2.53	0.43
3:I:696:HIS:NE2	4:J:54:LEU:CD1	2.81	0.43
3:I:881:LEU:O	3:I:885:ILE:HG12	2.18	0.43
3:I:970:LYS:HG2	3:I:995:LEU:CD1	2.48	0.43
3:I:970:LYS:O	3:I:974:ILE:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1258:ARG:HG3	3:I:1262:LEU:HD22	2.00	0.43
3:I:1438:ALA:N	3:I:1446:VAL:HG11	2.33	0.43
3:I:1441:GLN:CG	3:I:1442:ASN:H	2.31	0.43
2:M:252:LYS:O	2:M:253:ALA:C	2.61	0.43
2:M:274:ARG:NE	2:M:285:LEU:HD22	2.33	0.43
2:M:289:THR:C	2:M:291:ALA:N	2.76	0.43
2:M:468:ARG:HB3	2:M:485:TYR:HB3	2.00	0.43
2:M:873:PRO:HB3	3:N:949:ILE:CD1	2.48	0.43
3:N:55:ASP:O	3:N:56:TYR:CB	2.66	0.43
3:N:162:ARG:HG2	3:N:162:ARG:NH1	2.34	0.43
3:N:914:LEU:O	3:N:914:LEU:HD23	2.19	0.43
3:N:1161:GLU:CD	3:N:1164:ARG:HB2	2.43	0.43
3:N:1434:TRP:CZ3	3:N:1455:LYS:O	2.71	0.43
4:O:53:GLY:C	4:O:55:PHE:N	2.73	0.43
7:X:98:GLU:OE1	7:X:98:GLU:HA	2.18	0.43
1:B:186:LEU:O	1:B:187:GLY:C	2.61	0.43
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.99	0.43
2:C:553:ASP:OD2	2:C:883:GLY:N	2.47	0.43
2:C:654:LEU:HD13	2:C:663:ASN:O	2.18	0.43
2:C:861:LEU:CD2	2:C:862:PRO:HD2	2.48	0.43
2:C:1085:PHE:HD2	3:D:1468:LEU:HA	1.84	0.43
3:D:41:ARG:H	3:D:41:ARG:HG3	1.49	0.43
3:D:129:PHE:HZ	3:D:587:ARG:CD	2.30	0.43
3:D:438:ASP:HB3	3:D:441:ARG:NH2	2.33	0.43
3:D:639:LEU:HD11	3:D:928:ALA:HB1	1.99	0.43
3:D:1156:LEU:HD11	3:D:1177:ALA:HA	1.99	0.43
3:D:1168:MET:HE3	3:D:1168:MET:O	2.18	0.43
3:D:1389:LEU:HD23	3:D:1389:LEU:H	1.83	0.43
1:F:8:ALA:O	1:F:9:PRO:C	2.60	0.43
1:F:61:VAL:HG13	1:F:66:SER:HB3	1.99	0.43
1:F:176:ARG:NH1	2:H:863:ASP:OD2	2.52	0.43
2:H:22:GLN:OE1	2:H:336:VAL:HG21	2.18	0.43
2:H:885:ILE:HG13	3:I:949:ILE:HG22	2.01	0.43
2:H:939:ARG:CD	2:H:982:PRO:HD3	2.48	0.43
2:H:1054:THR:O	2:H:1056:LYS:N	2.51	0.43
3:I:50:PHE:CA	3:I:89:ARG:CB	2.97	0.43
3:I:766:ALA:CB	4:J:2:ALA:HB2	2.47	0.43
3:I:1095:THR:O	3:I:1099:VAL:CG2	2.62	0.43
3:I:1101:VAL:HG11	3:I:1424:VAL:O	2.19	0.43
3:I:1479:ASP:OD2	3:I:1482:ARG:NH2	2.52	0.43
4:J:80:VAL:HG13	4:J:81:PRO:HD2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:212:ASN:C	1:L:215:VAL:HG22	2.40	0.43
2:M:449:ILE:O	2:M:451:LEU:N	2.51	0.43
2:M:474:VAL:HB	2:M:479:VAL:HG12	2.01	0.43
2:M:874:LEU:HD12	3:N:784:ASP:CG	2.43	0.43
2:M:886:LEU:HD12	2:M:886:LEU:HA	1.38	0.43
2:M:958:THR:CG2	2:M:961:GLU:HG3	2.35	0.43
3:N:693:GLU:HA	4:O:48:MET:HE1	2.00	0.43
3:N:841:TYR:O	3:N:864:VAL:HG12	2.17	0.43
3:N:1194:CYS:SG	3:N:1204:CYS:SG	3.16	0.43
3:N:1288:GLU:HG2	3:N:1307:LYS:CE	2.43	0.43
3:N:1425:THR:HG23	3:N:1429:LEU:HD13	2.01	0.43
1:A:20:TYR:O	1:A:207:PRO:HG2	2.18	0.43
2:C:22:GLN:HG2	2:C:336:VAL:CG2	2.47	0.43
2:C:52:PHE:HB3	2:C:53:PRO:CD	2.48	0.43
2:C:206:THR:HG23	2:C:207:LEU:N	2.34	0.43
2:C:266:ARG:HA	2:C:288:ARG:HD3	2.00	0.43
2:C:654:LEU:CD1	2:C:663:ASN:O	2.67	0.43
2:C:885:ILE:CG1	3:D:949:ILE:HG22	2.45	0.43
2:C:950:LEU:CD1	2:C:952:LEU:HD21	2.46	0.43
3:D:17:LYS:CD	3:D:21:TRP:HE1	2.30	0.43
3:D:87:ARG:CB	3:D:523:ASP:CB	2.50	0.43
3:D:100:ALA:HB3	3:D:128:TYR:HE2	1.83	0.43
3:D:353:VAL:O	3:D:353:VAL:HG23	2.18	0.43
3:D:461:ILE:N	3:D:461:ILE:HD13	2.33	0.43
3:D:572:ARG:O	3:D:573:MET:C	2.61	0.43
3:D:829:VAL:O	3:D:831:GLY:N	2.52	0.43
3:D:927:THR:O	3:D:928:ALA:C	2.62	0.43
3:D:1029:ARG:NH2	7:X:42:ASP:HB3	2.32	0.43
4:E:84:ARG:O	4:E:88:GLU:HG2	2.19	0.43
1:F:174:VAL:HG13	1:F:200:TRP:O	2.17	0.43
1:F:206:THR:OG1	1:F:207:PRO:HD2	2.19	0.43
2:H:182:VAL:CA	2:H:193:LEU:HD11	2.49	0.43
2:H:295:ASP:C	2:H:297:GLU:N	2.76	0.43
2:H:327:HIS:C	2:H:329:GLY:H	2.27	0.43
2:H:473:ARG:HA	2:H:531:PHE:CD1	2.54	0.43
2:H:536:PRO:HB3	2:H:906:PHE:HD1	1.82	0.43
2:H:583:LEU:HD12	2:H:583:LEU:N	2.34	0.43
2:H:654:LEU:HD13	2:H:663:ASN:O	2.18	0.43
2:H:684:PHE:CG	2:H:685:GLU:N	2.86	0.43
2:H:754:ILE:CG1	2:H:791:ARG:HH12	2.31	0.43
2:H:922:PHE:HZ	2:H:963:LEU:HB3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:943:VAL:HG23	2:H:985:GLY:N	2.18	0.43
2:H:1038:TRP:HD1	2:H:1041:GLU:OE2	2.01	0.43
2:H:1052:MET:CG	3:I:623:VAL:HG21	2.48	0.43
2:H:1095:LEU:O	2:H:1096:ALA:C	2.61	0.43
3:I:1117:TYR:CZ	3:I:1151:ARG:HD2	2.53	0.43
3:I:1136:LYS:HB2	3:I:1139:ASP:OD2	2.19	0.43
3:I:1213:ARG:HH12	4:J:10:PHE:C	2.26	0.43
3:I:1276:GLU:C	3:I:1277:ILE:HD12	2.44	0.43
3:I:1422:MET:HE1	3:I:1427:SER:HA	2.00	0.43
3:I:1455:LYS:HA	3:I:1455:LYS:HD3	1.70	0.43
3:I:1481:VAL:C	3:I:1483:PHE:N	2.73	0.43
1:K:206:THR:OG1	1:K:207:PRO:HD2	2.19	0.43
1:L:206:THR:HG23	1:L:207:PRO:N	2.32	0.43
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.49	0.43
2:M:431:HIS:CD2	2:M:433:THR:H	2.37	0.43
2:M:473:ARG:HA	2:M:531:PHE:CD1	2.53	0.43
2:M:874:LEU:CD1	3:N:784:ASP:OD2	2.67	0.43
2:M:943:VAL:HG23	2:M:985:GLY:N	2.18	0.43
2:M:946:ARG:HH12	3:N:796:ARG:HH22	1.66	0.43
2:M:1061:GLU:CD	3:N:84:ILE:CD1	2.92	0.43
2:M:1071:ILE:HG23	3:N:670:VAL:HG11	2.01	0.43
3:N:87:ARG:HA	3:N:523:ASP:HB2	2.01	0.43
3:N:970:LYS:O	3:N:974:ILE:HG13	2.19	0.43
3:N:1458:GLU:OE2	3:N:1458:GLU:HA	2.19	0.43
1:A:206:THR:OG1	1:A:207:PRO:HD2	2.18	0.43
2:C:293:PHE:HA	2:C:298:PHE:CD2	2.53	0.43
2:C:710:ILE:HG21	2:C:756:VAL:HG11	2.01	0.43
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.54	0.43
2:C:1097:LEU:CD1	3:D:1451:ALA:CA	2.92	0.43
3:D:38:LYS:HA	3:D:39:PRO:HD3	1.89	0.43
3:D:101:HIS:O	3:D:105:VAL:HG23	2.18	0.43
3:D:1087:ARG:HG2	3:D:1234:THR:O	2.18	0.43
3:D:1198:TYR:OH	3:D:1394:VAL:HG21	2.18	0.43
3:D:1346:ARG:HD2	3:D:1346:ARG:HA	1.84	0.43
1:F:83:LYS:HD3	1:F:167:VAL:HG12	1.99	0.43
1:F:141:GLU:OE1	1:F:161:ARG:NH1	2.47	0.43
1:G:36:LEU:C	1:G:39:PRO:HD2	2.43	0.43
1:G:149:GLY:O	1:G:171:PHE:HB2	2.18	0.43
1:G:186:LEU:O	1:G:187:GLY:C	2.61	0.43
2:H:205:GLU:CD	2:H:206:THR:H	2.26	0.43
2:H:205:GLU:H	2:H:205:GLU:HG3	1.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:285:LEU:HG	2:H:286:SER:N	2.33	0.43
2:H:290:LEU:CB	2:H:302:VAL:CG1	2.92	0.43
2:H:313:LEU:CB	2:H:320:HIS:ND1	2.80	0.43
2:H:431:HIS:CD2	2:H:433:THR:H	2.37	0.43
2:H:512:ARG:CG	2:H:523:ILE:CD1	2.96	0.43
2:H:602:GLU:O	2:H:613:VAL:HB	2.18	0.43
2:H:703:ILE:N	2:H:703:ILE:CD1	2.82	0.43
2:H:939:ARG:HA	2:H:939:ARG:NE	2.14	0.43
3:I:119:SER:O	3:I:120:ALA:C	2.61	0.43
3:I:130:SER:OG	3:I:132:TYR:HD1	2.02	0.43
3:I:133:ILE:O	3:I:152:LEU:CB	2.67	0.43
3:I:465:LEU:HD11	3:I:512:MET:HB2	2.00	0.43
3:I:676:MET:CE	3:I:684:LYS:HE3	2.49	0.43
3:I:914:LEU:HD23	3:I:914:LEU:O	2.19	0.43
3:I:1209:LEU:CD2	3:I:1211:MET:H	2.25	0.43
3:I:1353:GLN:HB3	3:I:1357:ARG:NE	2.34	0.43
1:K:18:ARG:O	1:K:201:THR:OG1	2.36	0.43
1:K:206:THR:HG23	1:K:208:LEU:N	2.34	0.43
2:M:36:PRO:HB3	2:M:70:GLU:HG3	2.01	0.43
2:M:48:PHE:HD1	2:M:48:PHE:HA	1.73	0.43
2:M:100:LEU:HD23	2:M:372:LEU:HD21	2.00	0.43
2:M:395:LYS:CE	2:M:403:SER:HB2	2.49	0.43
2:M:545:ASN:OD1	2:M:905:ILE:CG1	2.66	0.43
2:M:553:ASP:OD1	2:M:843:HIS:ND1	2.50	0.43
2:M:684:PHE:CG	2:M:685:GLU:N	2.86	0.43
3:N:470:LEU:O	3:N:471:GLU:C	2.61	0.43
3:N:820:GLU:HG2	3:N:825:ALA:O	2.19	0.43
3:N:829:VAL:H	3:N:835:SER:HB2	1.84	0.43
3:N:957:PRO:HG2	3:N:1007:VAL:CA	2.47	0.43
3:N:1020:LEU:HD12	3:N:1020:LEU:HA	1.81	0.43
5:R:17:DG:H2'	5:R:18:DC:H6	1.82	0.43
7:X:33:LEU:HD11	7:X:52:LYS:CG	2.44	0.43
7:Y:123:SER:O	7:Y:127:LYS:N	2.48	0.43
7:Z:82:VAL:HG22	7:Z:133:ARG:HH21	1.83	0.43
1:A:124:ASN:ND2	1:A:127:LEU:CD2	2.82	0.43
1:B:198:ARG:O	1:B:199:ILE:HD13	2.19	0.43
1:B:226:SER:O	1:B:228:PRO:HD3	2.18	0.43
2:C:56:GLU:CD	2:C:56:GLU:C	2.86	0.43
2:C:205:GLU:HG3	2:C:206:THR:H	1.83	0.43
2:C:428:ARG:HG2	2:C:451:LEU:HG	2.01	0.43
2:C:554:ASP:HB2	3:D:1061:PHE:HE2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:588:VAL:HG13	2:C:666:LEU:HB2	2.01	0.43
2:C:630:ARG:HD3	2:C:705:ILE:HB	2.00	0.43
3:D:42:ASP:H	3:D:46:ASP:HB2	1.83	0.43
3:D:87:ARG:HB3	3:D:523:ASP:HB3	1.81	0.43
3:D:159:ARG:HH22	2:H:218:VAL:HG21	1.83	0.43
3:D:757:ALA:O	3:D:761:ILE:HG12	2.18	0.43
3:D:820:GLU:HG2	3:D:825:ALA:O	2.19	0.43
3:D:1152:GLU:CG	3:D:1161:GLU:HA	2.49	0.43
3:D:1209:LEU:O	3:D:1210:SER:C	2.60	0.43
3:D:1217:ILE:HB	3:D:1480:PHE:CD2	2.53	0.43
3:D:1366:LYS:O	3:D:1370:ILE:HG13	2.19	0.43
3:D:1377:LYS:O	3:D:1377:LYS:CG	2.67	0.43
1:F:68:ILE:HA	1:F:69:PRO:HD3	1.86	0.43
1:G:80:LEU:HD23	3:I:867:ARG:HE	1.84	0.43
1:G:81:ASN:O	1:G:84:GLU:HB3	2.19	0.43
2:H:101:ILE:HD12	2:H:108:ILE:HD13	1.99	0.43
2:H:223:ASP:OD1	2:H:224:GLU:N	2.50	0.43
2:H:284:ARG:HG2	2:H:285:LEU:N	2.33	0.43
2:H:451:LEU:C	2:H:452:ILE:CD1	2.73	0.43
2:H:571:LEU:HD12	2:H:701:THR:C	2.43	0.43
2:H:899:GLN:HG3	2:H:901:TYR:CZ	2.54	0.43
2:H:931:GLY:O	2:H:933:GLY:N	2.51	0.43
2:H:957:LYS:CD	2:H:961:GLU:CB	2.95	0.43
2:H:1059:ASP:CG	2:H:1062:GLY:H	2.26	0.43
2:H:1096:ALA:O	2:H:1097:LEU:C	2.60	0.43
2:H:1105:LYS:O	2:H:1107:ASN:N	2.51	0.43
3:I:101:HIS:O	3:I:105:VAL:HG23	2.18	0.43
3:I:204:LEU:CD1	3:I:441:ARG:NH2	2.77	0.43
3:I:564:GLU:O	3:I:566:ILE:N	2.52	0.43
3:I:829:VAL:O	3:I:831:GLY:N	2.52	0.43
3:I:1120:VAL:HG23	3:I:1188:VAL:HG11	2.00	0.43
1:L:56:VAL:CG1	1:L:57:TYR:N	2.81	0.43
2:M:223:ASP:OD1	2:M:224:GLU:N	2.49	0.43
2:M:363:SER:HB2	2:M:366:SER:HB2	2.01	0.43
2:M:414:GLY:C	2:M:416:GLY:N	2.77	0.43
2:M:431:HIS:CG	2:M:432:ARG:N	2.87	0.43
2:M:862:PRO:CG	2:M:925:TYR:OH	2.67	0.43
3:N:93:ILE:HG21	3:N:548:ILE:HD13	2.01	0.43
3:N:116:LEU:HD23	3:N:116:LEU:C	2.43	0.43
3:N:153:LEU:HD12	3:N:153:LEU:O	2.18	0.43
3:N:1384:PRO:HB3	3:N:1387:SER:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1437:ALA:HB3	3:N:1446:VAL:CG1	2.49	0.43
3:N:1447:LEU:N	3:N:1447:LEU:HD12	2.34	0.43
7:X:30:THR:O	7:X:31:LYS:C	2.60	0.43
7:Z:123:SER:O	7:Z:124:PRO:C	2.61	0.43
7:Z:123:SER:O	7:Z:127:LYS:N	2.49	0.43
1:B:30:ARG:NH1	2:C:692:GLU:OE2	2.52	0.43
1:B:197:LEU:HD21	1:B:199:ILE:CG1	2.49	0.43
1:B:198:ARG:H	1:B:198:ARG:HG2	1.61	0.43
2:C:211:LEU:HD12	2:C:211:LEU:C	2.43	0.43
3:D:53:ILE:HG13	3:D:53:ILE:O	2.18	0.43
3:D:127:LEU:HD12	3:D:128:TYR:N	2.34	0.43
3:D:162:ARG:O	3:D:450:TYR:O	2.37	0.43
3:D:850:LEU:HA	3:D:853:VAL:CG2	2.49	0.43
3:D:1273:VAL:CG2	3:D:1305:LEU:HD21	2.47	0.43
3:D:1293:PHE:O	3:D:1295:GLU:OE2	2.35	0.43
2:H:11:GLU:HG2	2:H:537:LYS:HZ1	1.84	0.43
2:H:135:VAL:CG1	2:H:407:LYS:HA	2.41	0.43
2:H:182:VAL:O	2:H:192:PRO:HA	2.19	0.43
2:H:229:MET:HB3	2:H:230:ARG:HH12	1.84	0.43
2:H:325:ILE:H	2:H:325:ILE:CD1	2.32	0.43
2:H:603:VAL:HA	2:H:613:VAL:CG1	2.19	0.43
3:I:156:GLU:O	3:I:160:GLU:HB2	2.18	0.43
3:I:479:GLU:C	3:I:483:HIS:HD1	2.26	0.43
3:I:517:VAL:HG21	3:I:547:LEU:HD21	2.00	0.43
3:I:703:ASN:HD22	3:I:704:ARG:H	1.67	0.43
3:I:800:LYS:HD3	3:I:830:ALA:HB3	2.00	0.43
3:I:1117:TYR:CD2	3:I:1117:TYR:N	2.84	0.43
1:K:62:LEU:N	1:K:62:LEU:CD1	2.76	0.43
2:M:48:PHE:O	2:M:49:ARG:C	2.62	0.43
2:M:224:GLU:HB2	2:M:228:ALA:HB2	2.01	0.43
2:M:274:ARG:NH2	2:M:278:GLU:CD	2.76	0.43
2:M:344:PHE:CE2	2:M:378:LEU:HD21	2.53	0.43
2:M:654:LEU:CD1	2:M:663:ASN:O	2.67	0.43
2:M:679:PHE:O	3:N:943:THR:HG22	2.18	0.43
2:M:861:LEU:CD2	2:M:862:PRO:HD2	2.48	0.43
2:M:928:LYS:HZ3	2:M:932:GLU:HG3	1.82	0.43
2:M:1095:LEU:O	2:M:1096:ALA:C	2.61	0.43
3:N:26:VAL:HG23	3:N:548:ILE:HD11	1.99	0.43
3:N:511:TRP:O	3:N:513:ILE:N	2.52	0.43
3:N:757:ALA:O	3:N:761:ILE:HG12	2.19	0.43
3:N:1061:PHE:CE1	3:N:1065:LEU:HD22	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1281:VAL:CG1	3:N:1282:ARG:N	2.81	0.43
3:N:1437:ALA:HB3	3:N:1446:VAL:HG13	2.01	0.43
7:Z:31:LYS:O	7:Z:35:GLU:HG2	2.19	0.43
1:A:35:THR:CG2	1:B:43:ILE:HD11	2.35	0.43
2:C:211:LEU:HD21	2:C:311:PHE:CE1	2.54	0.43
2:C:393:GLN:HE21	2:C:393:GLN:HB2	1.62	0.43
2:C:674:VAL:HG23	2:C:869:VAL:O	2.17	0.43
2:C:1044:GLY:HA2	3:D:1475:GLY:CA	2.48	0.43
2:C:1095:LEU:CD1	2:C:1097:LEU:H	2.24	0.43
2:C:1095:LEU:O	2:C:1096:ALA:C	2.61	0.43
3:D:1020:LEU:HD12	3:D:1020:LEU:HA	1.81	0.43
3:D:1254:GLN:HB2	3:D:1255:GLY:H	1.64	0.43
2:H:229:MET:HB2	2:H:230:ARG:NH1	2.34	0.43
2:H:328:LEU:N	2:H:328:LEU:HD12	2.33	0.43
2:H:336:VAL:HA	2:H:339:LEU:HD12	2.01	0.43
2:H:443:THR:HA	2:H:444:PRO:HD3	1.68	0.43
2:H:551:GLU:O	3:I:1065:LEU:HB3	2.19	0.43
2:H:654:LEU:CD1	2:H:663:ASN:O	2.67	0.43
3:I:29:PRO:HG3	3:I:549:ASN:ND2	2.34	0.43
3:I:99:ALA:HA	3:I:575:GLN:HE22	1.84	0.43
3:I:204:LEU:CB	3:I:394:LEU:O	2.66	0.43
3:I:1031:ASN:HB3	3:I:1034:GLN:CD	2.43	0.43
3:I:1488:ASP:N	3:I:1488:ASP:OD1	2.51	0.43
1:K:35:THR:O	1:K:35:THR:HG22	2.18	0.43
1:K:189:ARG:HD2	1:K:189:ARG:HA	1.84	0.43
1:L:186:LEU:O	1:L:187:GLY:C	2.61	0.43
1:L:226:SER:O	1:L:228:PRO:HD3	2.18	0.43
2:M:260:LEU:C	2:M:260:LEU:CD2	2.87	0.43
2:M:471:TYR:O	2:M:483:VAL:HG13	2.19	0.43
2:M:603:VAL:HG11	2:M:606:VAL:HG13	2.01	0.43
2:M:703:ILE:HD12	2:M:703:ILE:N	2.33	0.43
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.84	0.43
2:M:1061:GLU:CD	3:N:84:ILE:HD11	2.44	0.43
2:M:1105:LYS:O	2:M:1107:ASN:N	2.51	0.43
3:N:119:SER:O	3:N:120:ALA:C	2.61	0.43
3:N:177:ALA:HA	3:N:192:ALA:HA	2.01	0.43
3:N:638:LYS:C	3:N:640:HIS:N	2.76	0.43
3:N:682:ASP:O	3:N:682:ASP:OD2	2.36	0.43
3:N:766:ALA:CB	4:O:2:ALA:HB2	2.48	0.43
3:N:851:LEU:HG	3:N:851:LEU:H	1.47	0.43
3:N:1366:LYS:O	3:N:1370:ILE:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1434:TRP:O	3:N:1435:LEU:C	2.61	0.43
7:X:75:LEU:HB3	7:X:77:GLU:OE2	2.18	0.43
7:Y:30:THR:O	7:Y:31:LYS:C	2.60	0.43
2:C:43:GLY:O	2:C:44:ILE:C	2.61	0.43
2:C:71:TYR:O	2:C:71:TYR:CG	2.71	0.43
2:C:293:PHE:HA	2:C:298:PHE:HD2	1.83	0.43
2:C:327:HIS:C	2:C:329:GLY:N	2.75	0.43
2:C:351:LEU:HD13	2:C:374:ASN:ND2	2.34	0.43
2:C:717:LEU:HB3	2:C:761:PHE:CD2	2.54	0.43
2:C:925:TYR:C	2:C:925:TYR:CD2	2.95	0.43
2:C:939:ARG:CA	2:C:939:ARG:NE	2.79	0.43
2:C:972:VAL:HG23	2:C:973:VAL:N	2.33	0.43
2:C:988:VAL:CG1	3:D:948:THR:OG1	2.63	0.43
3:D:9:ARG:NH1	3:D:11:ALA:HB2	2.33	0.43
3:D:52:PRO:O	3:D:86:ARG:CG	2.66	0.43
3:D:54:LYS:HE3	3:D:55:ASP:OD1	2.18	0.43
3:D:502:PHE:CZ	3:D:509:PRO:HB3	2.53	0.43
3:D:593:ASN:O	3:D:594:PRO:C	2.61	0.43
3:D:687:VAL:CG1	3:D:688:TRP:N	2.82	0.43
3:D:970:LYS:HG2	3:D:995:LEU:CD1	2.48	0.43
3:D:1108:ARG:HH11	3:D:1108:ARG:HG3	1.83	0.43
3:D:1424:VAL:HG13	3:D:1425:THR:H	1.83	0.43
3:D:1437:ALA:HB3	3:D:1446:VAL:HG11	2.00	0.43
4:E:14:ASP:OD1	4:E:18:ARG:NH2	2.51	0.43
1:F:18:ARG:HH12	1:F:88:ARG:CZ	2.32	0.43
1:F:206:THR:HG23	1:F:208:LEU:N	2.34	0.43
1:G:152:PRO:HG2	3:I:857:ILE:CD1	2.48	0.43
1:G:153:ALA:HB2	1:G:168:ASP:N	2.33	0.43
2:H:107:LEU:C	2:H:108:ILE:HG13	2.43	0.43
2:H:333:ILE:N	2:H:333:ILE:CD1	2.80	0.43
2:H:368:THR:O	2:H:369:PRO:C	2.62	0.43
2:H:431:HIS:CG	2:H:432:ARG:N	2.87	0.43
2:H:580:MET:O	2:H:903:SER:N	2.51	0.43
2:H:662:GLU:CD	2:H:662:GLU:C	2.86	0.43
2:H:1051:GLU:HG2	2:H:1055:LEU:HD12	2.01	0.43
3:I:50:PHE:CA	3:I:89:ARG:HG2	2.48	0.43
3:I:511:TRP:O	3:I:513:ILE:N	2.52	0.43
3:I:850:LEU:HA	3:I:853:VAL:CG2	2.49	0.43
3:I:906:GLN:HB3	3:I:911:LEU:CD1	2.45	0.43
3:I:1299:PHE:CD2	3:I:1299:PHE:N	2.87	0.43
1:L:56:VAL:CG1	1:L:140:MET:HE3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:161:ARG:HG3	1:L:161:ARG:HH11	1.84	0.43
1:L:198:ARG:O	1:L:199:ILE:HD13	2.18	0.43
2:M:15:LEU:O	2:M:586:ARG:NH2	2.52	0.43
2:M:99:GLN:HB3	2:M:110:GLU:HA	2.01	0.43
2:M:99:GLN:CA	2:M:109:LYS:O	2.66	0.43
2:M:129:ILE:C	2:M:131:GLY:N	2.76	0.43
2:M:185:LYS:HG2	2:M:190:LYS:CG	2.48	0.43
2:M:203:ASP:O	2:M:204:GLN:C	2.62	0.43
2:M:274:ARG:HG2	2:M:274:ARG:HH11	1.83	0.43
2:M:333:ILE:CG2	2:M:410:ILE:HD11	2.49	0.43
2:M:343:GLN:HA	2:M:343:GLN:NE2	2.32	0.43
2:M:518:LYS:HB2	2:M:518:LYS:HE2	1.73	0.43
2:M:1050:GLN:CA	2:M:1050:GLN:HE21	2.32	0.43
3:N:158:TYR:CE1	3:N:452:ILE:HD11	2.54	0.43
3:N:362:GLU:O	3:N:363:ALA:C	2.62	0.43
3:N:465:LEU:HD11	3:N:512:MET:HB2	2.00	0.43
3:N:881:LEU:O	3:N:885:ILE:HG12	2.18	0.43
3:N:927:THR:O	3:N:928:ALA:C	2.62	0.43
3:N:1311:LEU:HD23	3:N:1311:LEU:H	1.83	0.43
3:N:1371:VAL:HG12	3:N:1375:MET:HE2	2.01	0.43
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.49	0.42
2:C:385:PHE:HD1	2:C:389:SER:HB2	1.84	0.42
2:C:389:SER:C	2:C:391:LEU:H	2.26	0.42
2:C:437:ARG:CZ	2:C:488:ALA:HA	2.50	0.42
2:C:465:GLY:O	2:C:466:PHE:C	2.62	0.42
2:C:697:ARG:O	2:C:698:ASP:C	2.62	0.42
2:C:886:LEU:HA	2:C:886:LEU:HD12	1.39	0.42
3:D:160:GLU:HB3	3:D:161:LEU:HD12	2.01	0.42
3:D:470:LEU:O	3:D:471:GLU:C	2.61	0.42
3:D:584:ASN:HD21	3:D:590:PRO:HG2	1.83	0.42
3:D:829:VAL:H	3:D:835:SER:HB2	1.84	0.42
3:D:914:LEU:HD23	3:D:914:LEU:O	2.19	0.42
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.34	0.42
1:F:186:LEU:CD2	1:F:187:GLY:N	2.77	0.42
1:G:111:ALA:HB3	1:G:124:ASN:O	2.19	0.42
1:G:197:LEU:HD21	1:G:199:ILE:CG1	2.49	0.42
2:H:68:PHE:C	2:H:69:LEU:HD23	2.43	0.42
2:H:84:ARG:HH11	2:H:84:ARG:HG3	1.84	0.42
2:H:154:ARG:HH12	2:H:178:PRO:HD2	1.83	0.42
2:H:251:ASP:O	2:H:253:ALA:N	2.51	0.42
2:H:724:ARG:HG3	2:H:737:LEU:HD22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:862:PRO:CG	2:H:925:TYR:OH	2.67	0.42
2:H:987:ILE:HD11	3:I:946:GLY:C	2.43	0.42
2:H:1097:LEU:CD2	3:I:1447:LEU:HB3	2.46	0.42
3:I:89:ARG:O	3:I:521:PRO:HB3	2.18	0.42
3:I:115:LEU:C	3:I:115:LEU:CD2	2.89	0.42
3:I:153:LEU:O	3:I:153:LEU:HD12	2.19	0.42
3:I:873:LEU:HD23	3:I:873:LEU:HA	1.82	0.42
3:I:1436:SER:O	3:I:1439:SER:HB2	2.19	0.42
3:I:1486:VAL:HG11	4:J:22:VAL:HG13	2.00	0.42
1:K:218:LEU:HD23	1:L:222:LEU:CD2	2.48	0.42
2:M:88:LEU:HD22	2:M:814:GLU:CG	2.39	0.42
2:M:364:GLU:O	2:M:367:LEU:CG	2.60	0.42
2:M:512:ARG:HG2	2:M:523:ILE:CD1	2.49	0.42
2:M:571:LEU:HD21	2:M:700:TYR:HA	2.00	0.42
2:M:644:VAL:HG22	2:M:647:GLN:OE1	2.19	0.42
2:M:837:ASP:O	2:M:848:VAL:HG13	2.19	0.42
2:M:899:GLN:HG3	2:M:901:TYR:CZ	2.54	0.42
3:N:101:HIS:O	3:N:105:VAL:HG23	2.18	0.42
3:N:926:LYS:NZ	3:N:929:ARG:HH12	2.17	0.42
3:N:1346:ARG:HA	3:N:1346:ARG:HD2	1.84	0.42
7:Z:102:VAL:HG13	7:Z:103:GLN:N	2.34	0.42
1:A:189:ARG:NH1	1:A:189:ARG:HG2	2.33	0.42
1:B:25:LEU:O	1:B:25:LEU:HD23	2.19	0.42
1:B:111:ALA:HB3	1:B:124:ASN:O	2.19	0.42
1:B:170:VAL:HG11	3:D:848:GLU:OE2	2.19	0.42
2:C:25:SER:O	2:C:29:ALA:HB2	2.19	0.42
2:C:146:VAL:HG11	2:C:281:LEU:HD11	2.01	0.42
2:C:178:PRO:O	2:C:179:ASN:C	2.62	0.42
2:C:212:GLY:HA3	2:C:218:VAL:CG2	2.49	0.42
2:C:405:ARG:CZ	2:C:566:THR:HG21	2.49	0.42
2:C:512:ARG:HG2	2:C:523:ILE:CD1	2.50	0.42
2:C:583:LEU:HD12	2:C:583:LEU:N	2.34	0.42
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.19	0.42
2:C:754:ILE:N	2:C:754:ILE:CD1	2.71	0.42
3:D:10:ILE:HD12	3:D:1434:TRP:CE2	2.55	0.42
3:D:185:VAL:CG1	3:D:186:VAL:N	2.82	0.42
3:D:511:TRP:O	3:D:513:ILE:N	2.52	0.42
3:D:1232:PRO:HB2	3:D:1356:TYR:HE2	1.82	0.42
3:D:1258:ARG:NH1	3:D:1258:ARG:HG3	2.34	0.42
4:E:25:LYS:O	4:E:28:GLN:HB2	2.19	0.42
1:F:107:LYS:HG2	1:F:108:GLU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:122:ILE:HD12	1:G:122:ILE:H	1.82	0.42
1:G:128:HIS:HE1	1:G:131:THR:HG23	1.83	0.42
1:G:133:GLU:CG	1:G:134:GLU:H	2.25	0.42
2:H:39:ARG:HB2	2:H:45:GLN:HE22	1.78	0.42
2:H:96:ALA:O	2:H:98:LEU:CD1	2.68	0.42
2:H:239:PHE:HZ	2:H:252:LYS:O	2.01	0.42
2:H:272:ALA:O	2:H:464:LEU:CD2	2.67	0.42
2:H:358:ARG:HH22	2:H:374:ASN:CB	2.32	0.42
2:H:397:GLU:O	2:H:398:THR:C	2.62	0.42
2:H:512:ARG:HG2	2:H:523:ILE:CD1	2.49	0.42
2:H:1086:ARG:NH2	3:I:88:TYR:CZ	2.87	0.42
3:I:564:GLU:O	3:I:565:ILE:C	2.62	0.42
3:I:705:ALA:HB3	3:I:706:PRO:CD	2.49	0.42
3:I:783:ARG:HA	3:I:1028:ALA:HA	2.00	0.42
3:I:829:VAL:H	3:I:835:SER:HB2	1.84	0.42
3:I:926:LYS:NZ	3:I:929:ARG:HH12	2.17	0.42
3:I:1105:ILE:N	3:I:1105:ILE:CD1	2.81	0.42
3:I:1256:LEU:HG	3:I:1260:ILE:CD1	2.41	0.42
3:I:1481:VAL:O	3:I:1482:ARG:C	2.60	0.42
3:I:1481:VAL:O	3:I:1483:PHE:N	2.51	0.42
3:I:1487:VAL:CG1	3:I:1488:ASP:N	2.82	0.42
4:J:43:GLU:O	4:J:44:GLU:CB	2.67	0.42
4:J:86:GLN:O	4:J:90:GLU:HG3	2.18	0.42
1:K:21:GLY:O	1:K:23:PHE:CE2	2.72	0.42
1:K:101:LEU:HD12	1:K:113:ASP:O	2.18	0.42
1:K:107:LYS:HG2	1:K:108:GLU:N	2.34	0.42
1:K:109:VAL:HG21	1:K:138:LEU:HD23	2.01	0.42
1:L:197:LEU:HD21	1:L:199:ILE:CG1	2.49	0.42
2:M:162:ILE:O	2:M:164:PRO:HD3	2.18	0.42
2:M:165:LEU:HD12	2:M:166:PRO:C	2.44	0.42
2:M:487:THR:HB	2:M:490:GLU:HG3	2.00	0.42
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.20	0.42
2:M:640:ARG:HG2	2:M:640:ARG:HH11	1.83	0.42
3:N:384:VAL:HG12	3:N:385:VAL:N	2.34	0.42
3:N:467:GLU:O	3:N:468:LEU:C	2.62	0.42
3:N:564:GLU:O	3:N:565:ILE:C	2.61	0.42
3:N:829:VAL:O	3:N:831:GLY:N	2.52	0.42
3:N:850:LEU:HA	3:N:853:VAL:CG2	2.49	0.42
1:A:109:VAL:HG21	1:A:138:LEU:HD23	2.01	0.42
1:A:117:VAL:HB	1:A:120:VAL:CG1	2.49	0.42
1:A:206:THR:HG23	1:A:208:LEU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:102:LYS:HD2	1:B:139:ASN:CG	2.45	0.42
2:C:12:VAL:HB	2:C:472:ARG:HH11	1.84	0.42
2:C:405:ARG:C	2:C:407:LYS:N	2.76	0.42
2:C:431:HIS:CD2	2:C:433:THR:H	2.37	0.42
2:C:836:GLY:O	2:C:848:VAL:HG13	2.19	0.42
2:C:987:ILE:HD11	3:D:946:GLY:C	2.44	0.42
2:C:1032:PHE:HZ	2:C:1040:LEU:HD13	1.84	0.42
2:C:1074:GLU:CG	2:C:1075:ASP:H	2.05	0.42
3:D:87:ARG:O	3:D:524:LEU:CD1	2.68	0.42
3:D:546:ARG:CG	3:D:546:ARG:NH1	2.82	0.42
3:D:621:LYS:HD3	3:D:621:LYS:HA	1.79	0.42
3:D:703:ASN:HD22	3:D:704:ARG:H	1.67	0.42
3:D:1094:LEU:HG	3:D:1098:LEU:HD11	2.01	0.42
3:D:1312:LEU:HD23	3:D:1312:LEU:HA	1.87	0.42
3:D:1437:ALA:HB3	3:D:1446:VAL:HG13	2.01	0.42
4:E:62:THR:O	4:E:66:LYS:HB2	2.19	0.42
1:G:97:VAL:HG11	1:G:120:VAL:HG21	2.01	0.42
2:H:42:VAL:O	2:H:43:GLY:O	2.37	0.42
2:H:273:GLY:HA2	2:H:276:LYS:CD	2.49	0.42
2:H:572:ILE:CD1	2:H:573:ARG:H	2.17	0.42
2:H:693:GLU:HG2	2:H:697:ARG:HH21	1.84	0.42
2:H:1082:PRO:O	2:H:1085:PHE:N	2.48	0.42
2:H:1109:VAL:HG11	3:I:5:VAL:HG13	2.02	0.42
3:I:554:LEU:HD22	3:I:574:LEU:HD22	2.01	0.42
3:I:787:LEU:HD21	3:I:947:ILE:HD13	2.00	0.42
3:I:1258:ARG:HE	3:I:1262:LEU:HD22	1.84	0.42
3:I:1371:VAL:HG12	3:I:1375:MET:HE2	2.02	0.42
3:I:1401:GLU:OE2	3:I:1402:ALA:N	2.52	0.42
1:K:83:LYS:NZ	2:M:698:ASP:OD2	2.51	0.42
1:K:198:ARG:NH2	2:M:934:PHE:CD1	2.87	0.42
1:L:172:SER:C	1:L:174:VAL:H	2.27	0.42
2:M:39:ARG:HD2	2:M:71:TYR:HE2	1.85	0.42
2:M:242:LEU:HD11	2:M:254:VAL:CG1	2.35	0.42
2:M:367:LEU:HG	2:M:367:LEU:H	1.68	0.42
2:M:512:ARG:CG	2:M:523:ILE:CD1	2.96	0.42
2:M:654:LEU:HD13	2:M:663:ASN:O	2.19	0.42
2:M:1096:ALA:O	2:M:1097:LEU:C	2.60	0.42
3:N:133:ILE:CG2	3:N:134:VAL:N	2.82	0.42
3:N:137:PRO:HG3	3:N:453:ASP:HB2	1.99	0.42
3:N:178:LEU:CD1	3:N:191:LEU:HA	2.48	0.42
3:N:860:LEU:HD22	3:N:878:GLY:CA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1084:THR:CB	3:N:1087:ARG:NH1	2.82	0.42
3:N:1129:THR:HG23	3:N:1130:ARG:N	2.34	0.42
3:N:1135:ARG:O	3:N:1140:ILE:HD11	2.19	0.42
3:N:1310:ARG:HD3	3:N:1310:ARG:HA	1.88	0.42
3:N:1353:GLN:HB3	3:N:1357:ARG:NE	2.34	0.42
3:N:1372:VAL:HG13	3:N:1373:ARG:N	2.34	0.42
3:N:1442:ASN:HD22	3:N:1445:HIS:HB2	1.84	0.42
3:N:1491:THR:HA	3:N:1494:ALA:CB	2.50	0.42
4:O:48:MET:C	4:O:49:GLN:CD	2.86	0.42
4:O:68:LEU:HA	4:O:73:LEU:HD13	2.01	0.42
1:B:106:PRO:CG	1:B:134:GLU:OE2	2.68	0.42
1:B:185:ARG:HD3	3:D:692:GLU:CG	2.49	0.42
2:C:195:LEU:CG	2:C:238:LEU:HG	2.44	0.42
2:C:205:GLU:O	2:C:209:ARG:HD2	2.19	0.42
2:C:395:LYS:HE3	2:C:407:LYS:HE3	2.01	0.42
2:C:400:PRO:O	2:C:401:LEU:C	2.60	0.42
2:C:431:HIS:CG	2:C:432:ARG:N	2.87	0.42
2:C:585:GLU:O	2:C:588:VAL:CG2	2.67	0.42
3:D:97:THR:CB	3:D:571:LYS:HE2	2.49	0.42
3:D:127:LEU:HD22	3:D:134:VAL:CG1	2.48	0.42
3:D:471:GLU:H	3:D:471:GLU:HG2	1.54	0.42
3:D:568:ARG:C	3:D:570:GLU:N	2.77	0.42
3:D:820:GLU:HG3	3:D:836:VAL:CG2	2.49	0.42
3:D:925:GLU:OE1	4:E:6:ILE:HG22	2.20	0.42
3:D:963:TYR:CE2	3:D:1002:LYS:HD3	2.55	0.42
3:D:1096:ARG:C	3:D:1096:ARG:HD3	2.44	0.42
3:D:1292:VAL:HG22	3:D:1311:LEU:HD13	2.00	0.42
3:D:1305:LEU:HD12	3:D:1309:ALA:CB	2.49	0.42
1:F:109:VAL:HG21	1:F:138:LEU:HD23	2.01	0.42
1:G:25:LEU:O	1:G:25:LEU:HD23	2.19	0.42
2:H:48:PHE:CE2	2:H:71:TYR:HB3	2.54	0.42
2:H:124:ASP:HA	2:H:592:LEU:HG	2.01	0.42
2:H:260:LEU:HD23	2:H:261:ILE:HA	2.01	0.42
2:H:294:GLU:HG3	2:H:295:ASP:OD2	2.19	0.42
2:H:345:ARG:HA	2:H:348:LEU:HB2	2.01	0.42
2:H:360:LEU:H	2:H:360:LEU:CD2	2.30	0.42
2:H:573:ARG:CB	2:H:670:GLN:NE2	2.83	0.42
3:I:546:ARG:NH1	3:I:550:ARG:NH2	2.65	0.42
3:I:643:GLY:N	3:I:727:GLN:O	2.50	0.42
3:I:1254:GLN:HG3	3:I:1355:VAL:HG13	2.01	0.42
3:I:1258:ARG:HH21	3:I:1351:GLU:HG2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1278:ASP:HA	3:I:1319:VAL:O	2.20	0.42
3:I:1363:LEU:HD23	3:I:1363:LEU:H	1.84	0.42
3:I:1377:LYS:O	3:I:1377:LYS:CG	2.67	0.42
3:I:1434:TRP:HZ3	3:I:1457:ASP:N	2.17	0.42
4:J:60:ALA:O	4:J:63:TRP:HB2	2.20	0.42
2:M:65:VAL:O	2:M:101:ILE:N	2.53	0.42
2:M:184:MET:O	2:M:191:PHE:CD1	2.72	0.42
2:M:326:ASP:O	2:M:327:HIS:C	2.62	0.42
2:M:588:VAL:HG11	2:M:661:SER:HB2	2.01	0.42
2:M:836:GLY:O	2:M:848:VAL:HG13	2.19	0.42
2:M:1090:LYS:CD	3:N:90:MET:SD	3.08	0.42
3:N:93:ILE:HG22	3:N:551:ASN:HD22	1.84	0.42
3:N:199:LEU:HG	3:N:200:ASP:H	1.84	0.42
3:N:199:LEU:CD2	3:N:200:ASP:H	2.33	0.42
3:N:470:LEU:CB	3:N:503:LEU:HD21	2.44	0.42
3:N:568:ARG:O	3:N:569:ASN:C	2.61	0.42
3:N:667:ALA:HA	3:N:668:PRO:HD3	1.83	0.42
3:N:801:GLY:O	3:N:802:ALA:HB2	2.19	0.42
3:N:820:GLU:HG3	3:N:836:VAL:CG2	2.49	0.42
3:N:963:TYR:CE2	3:N:1002:LYS:HD3	2.55	0.42
3:N:1384:PRO:HB3	3:N:1388:ARG:HH12	1.85	0.42
4:O:45:ARG:NH2	4:O:55:PHE:O	2.52	0.42
4:O:47:LYS:HA	4:O:54:LEU:CB	2.45	0.42
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.83	0.42
1:B:124:ASN:N	1:B:125:PRO:CD	2.81	0.42
2:C:64:LEU:HD22	2:C:359:MET:CB	2.50	0.42
2:C:91:GLN:HB2	2:C:117:HIS:HB3	2.01	0.42
2:C:254:VAL:HA	2:C:257:VAL:HG23	2.01	0.42
2:C:396:ASP:OD1	2:C:402:SER:OG	2.38	0.42
2:C:437:ARG:C	2:C:438:ILE:HD12	2.44	0.42
2:C:512:ARG:CG	2:C:523:ILE:CD1	2.96	0.42
2:C:557:ARG:HH21	2:C:879:ARG:HE	1.67	0.42
2:C:605:LYS:CB	2:C:610:ARG:HH12	2.33	0.42
3:D:99:ALA:CB	3:D:575:GLN:OE1	2.61	0.42
3:D:139:GLY:HA3	3:D:147:VAL:HG21	2.00	0.42
3:D:642:CYS:O	3:D:642:CYS:SG	2.74	0.42
3:D:704:ARG:CG	3:D:736:PHE:HB3	2.50	0.42
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.49	0.42
3:D:887:ALA:HB1	3:D:893:GLU:HG3	2.02	0.42
1:F:124:ASN:ND2	1:F:127:LEU:CD2	2.82	0.42
1:G:7:LYS:HE3	1:G:7:LYS:HB3	1.70	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:198:ARG:O	1:G:199:ILE:HD13	2.19	0.42
2:H:12:VAL:HG22	2:H:13:ILE:HG23	2.01	0.42
2:H:31:GLN:CD	2:H:39:ARG:HA	2.45	0.42
2:H:140:ILE:CG2	2:H:410:ILE:HD13	2.49	0.42
2:H:338:GLU:CA	2:H:341:THR:HG22	2.50	0.42
2:H:836:GLY:O	2:H:848:VAL:HG13	2.19	0.42
2:H:1037:VAL:O	2:H:1038:TRP:C	2.61	0.42
2:H:1070:ILE:CG2	3:I:655:PRO:HB2	2.49	0.42
3:I:1123:PHE:HD1	3:I:1133:ARG:O	2.03	0.42
3:I:1305:LEU:N	3:I:1305:LEU:HD23	2.35	0.42
3:I:1327:ARG:HG3	3:I:1328:GLY:N	2.35	0.42
3:I:1366:LYS:O	3:I:1370:ILE:HG13	2.19	0.42
1:K:26:GLU:OE2	1:K:194:LYS:HE3	2.19	0.42
1:K:223:THR:O	1:K:225:PHE:N	2.52	0.42
2:M:154:ARG:CZ	2:M:178:PRO:HG3	2.49	0.42
2:M:449:ILE:HD13	3:N:1082:ALA:N	2.34	0.42
2:M:487:THR:O	2:M:490:GLU:N	2.53	0.42
2:M:835:VAL:HA	2:M:849:VAL:HG12	2.02	0.42
2:M:1046:ALA:HB3	3:N:1476:THR:CB	2.49	0.42
2:M:1083:GLU:O	2:M:1087:VAL:HB	2.19	0.42
3:N:142:LEU:CD2	3:N:145:VAL:C	2.91	0.42
3:N:390:PRO:HB2	3:N:393:ILE:HD11	2.01	0.42
3:N:657:LEU:O	3:N:661:MET:HG2	2.19	0.42
3:N:1260:ILE:O	3:N:1264:GLU:HB2	2.19	0.42
3:N:1276:GLU:C	3:N:1277:ILE:HD12	2.44	0.42
3:N:1327:ARG:HG3	3:N:1328:GLY:N	2.35	0.42
3:N:1401:GLU:OE2	3:N:1402:ALA:N	2.52	0.42
7:X:26:LEU:HD13	7:X:58:ILE:HG21	2.00	0.42
7:Z:77:GLU:OE1	7:Z:77:GLU:O	2.37	0.42
7:Z:132:HIS:CD2	7:Z:138:LEU:HD22	2.53	0.42
1:B:153:ALA:HB2	1:B:167:VAL:C	2.45	0.42
2:C:9:ILE:CD1	2:C:907:ASP:CB	2.97	0.42
2:C:31:GLN:O	2:C:71:TYR:OH	2.28	0.42
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	2.50	0.42
2:C:588:VAL:HG12	2:C:661:SER:HB3	2.01	0.42
2:C:831:ARG:NH1	2:C:1002:GLU:HB2	2.34	0.42
2:C:1019:GLN:HG3	3:D:621:LYS:HD2	2.02	0.42
2:C:1070:ILE:HG23	3:D:656:PHE:CD1	2.54	0.42
3:D:112:ILE:C	3:D:112:ILE:CD1	2.78	0.42
3:D:135:LEU:HD23	3:D:135:LEU:HA	1.91	0.42
3:D:158:TYR:HD1	3:D:162:ARG:HB2	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:213:VAL:HG12	3:D:384:VAL:O	2.19	0.42
3:D:401:TYR:CD1	3:D:401:TYR:N	2.88	0.42
3:D:464:LEU:HD23	3:D:464:LEU:HA	1.73	0.42
3:D:657:LEU:O	3:D:661:MET:HG2	2.19	0.42
3:D:1087:ARG:HB2	3:D:1237:THR:C	2.44	0.42
3:D:1148:VAL:HG13	3:D:1163:GLY:C	2.44	0.42
3:D:1431:THR:HG23	3:D:1431:THR:O	2.20	0.42
4:E:36:LYS:HZ3	4:E:36:LYS:N	2.17	0.42
1:F:18:ARG:NH1	1:F:123:MET:CE	2.82	0.42
1:G:122:ILE:N	1:G:122:ILE:CD1	2.77	0.42
2:H:196:LEU:HD22	2:H:303:PHE:CD1	2.54	0.42
2:H:328:LEU:HD13	2:H:433:THR:CB	2.23	0.42
2:H:437:ARG:CZ	2:H:488:ALA:HA	2.48	0.42
2:H:640:ARG:HG2	2:H:640:ARG:HH11	1.83	0.42
2:H:720:GLU:OE1	2:H:758:ARG:NH1	2.52	0.42
2:H:1083:GLU:O	2:H:1087:VAL:HB	2.19	0.42
2:H:1086:ARG:NH2	3:I:88:TYR:OH	2.53	0.42
3:I:111:LYS:HD3	3:I:1448:THR:HG21	2.02	0.42
3:I:618:LEU:CD2	3:I:619:LEU:HD23	2.47	0.42
3:I:638:LYS:HD3	3:I:932:ASP:CG	2.45	0.42
3:I:887:ALA:HB1	3:I:893:GLU:HG3	2.01	0.42
3:I:1356:TYR:N	3:I:1356:TYR:CD1	2.88	0.42
1:L:76:VAL:O	1:L:80:LEU:HD13	2.19	0.42
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.34	0.42
2:M:143:SER:O	2:M:144:PRO:C	2.63	0.42
2:M:217:LEU:C	2:M:311:PHE:HE1	2.28	0.42
2:M:418:LEU:N	2:M:418:LEU:CD1	2.79	0.42
2:M:662:GLU:CD	2:M:662:GLU:C	2.86	0.42
2:M:897:LEU:HD22	2:M:920:GLN:CG	2.49	0.42
2:M:1093:GLN:C	2:M:1095:LEU:N	2.78	0.42
3:N:134:VAL:HG21	3:N:460:ALA:HB1	2.02	0.42
3:N:434:ARG:HB2	3:N:449:SER:OG	2.19	0.42
3:N:547:LEU:O	3:N:548:ILE:C	2.63	0.42
3:N:1255:GLY:O	3:N:1256:LEU:C	2.63	0.42
3:N:1281:VAL:HG11	3:N:1313:VAL:HG13	2.02	0.42
3:N:1305:LEU:O	3:N:1306:PRO:O	2.38	0.42
3:N:1478:SER:C	3:N:1480:PHE:N	2.77	0.42
4:O:59:ASN:HD21	4:O:61:VAL:HG22	1.84	0.42
7:X:11:GLY:HA3	7:X:109:GLU:OE1	2.19	0.42
7:Y:7:LEU:HD23	7:Y:7:LEU:N	2.35	0.42
1:A:107:LYS:HG2	1:A:108:GLU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:170:VAL:O	1:A:170:VAL:CG2	2.63	0.42
1:B:172:SER:C	1:B:174:VAL:H	2.27	0.42
2:C:30:LEU:O	2:C:30:LEU:CD1	2.60	0.42
2:C:243:ARG:N	2:C:244:PRO:CD	2.83	0.42
2:C:252:LYS:O	2:C:253:ALA:C	2.62	0.42
2:C:328:LEU:HD21	2:C:434:HIS:HA	2.01	0.42
2:C:371:LYS:HD3	3:I:1317:ASP:OD2	2.20	0.42
2:C:405:ARG:HG3	2:C:442:GLU:OE1	2.19	0.42
2:C:693:GLU:CG	2:C:697:ARG:HH21	2.33	0.42
3:D:677:LEU:CD2	3:D:683:ILE:HD11	2.28	0.42
3:D:827:ILE:H	3:D:827:ILE:CD1	2.28	0.42
3:D:899:LEU:HD13	3:D:914:LEU:CD2	2.50	0.42
3:D:922:LEU:N	3:D:922:LEU:CD2	2.75	0.42
3:D:1292:VAL:HG11	3:D:1325:LEU:HG	2.01	0.42
1:F:39:PRO:HG3	1:G:39:PRO:CG	2.50	0.42
2:H:230:ARG:NH1	2:H:230:ARG:HG2	2.34	0.42
2:H:313:LEU:CA	2:H:320:HIS:CE1	3.01	0.42
2:H:415:PRO:HD2	2:H:418:LEU:HD13	2.00	0.42
2:H:469:THR:CG2	2:H:470:PRO:N	2.83	0.42
2:H:603:VAL:HG12	2:H:604:ALA:N	2.34	0.42
2:H:1082:PRO:C	2:H:1084:SER:N	2.77	0.42
3:I:123:LEU:CG	3:I:152:LEU:HD21	2.49	0.42
3:I:631:ILE:CD1	3:I:743:ASP:O	2.53	0.42
3:I:657:LEU:O	3:I:661:MET:HG2	2.19	0.42
3:I:820:GLU:HG2	3:I:825:ALA:O	2.18	0.42
3:I:963:TYR:CE2	3:I:1002:LYS:HD3	2.55	0.42
3:I:1123:PHE:HE2	3:I:1184:GLN:HG3	1.81	0.42
3:I:1128:VAL:HG22	7:Y:23:ARG:NH2	2.35	0.42
1:K:78:ILE:CD1	1:K:130:ALA:HB2	2.49	0.42
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.50	0.42
1:L:212:ASN:O	1:L:215:VAL:CG2	2.54	0.42
2:M:274:ARG:CG	2:M:285:LEU:HD13	2.50	0.42
2:M:274:ARG:O	2:M:277:ALA:HB3	2.19	0.42
2:M:295:ASP:C	2:M:297:GLU:N	2.76	0.42
2:M:428:ARG:HG2	2:M:451:LEU:HG	2.01	0.42
2:M:1103:ASP:HB3	2:M:1105:LYS:NZ	2.35	0.42
3:N:169:TYR:CG	3:N:197:SER:HA	2.54	0.42
3:N:1120:VAL:HG23	3:N:1188:VAL:HG11	2.00	0.42
3:N:1258:ARG:O	3:N:1262:LEU:HB2	2.19	0.42
3:N:1363:LEU:HD23	3:N:1363:LEU:H	1.84	0.42
4:O:31:LEU:HD12	4:O:31:LEU:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:X:92:GLU:HA	7:X:98:GLU:O	2.19	0.42
7:Z:30:THR:O	7:Z:31:LYS:C	2.62	0.42
1:A:32:PHE:HZ	1:B:47:SER:CB	2.33	0.42
2:C:31:GLN:HE21	2:C:71:TYR:HH	1.62	0.42
2:C:50:GLU:OE2	2:C:345:ARG:HB2	2.20	0.42
2:C:170:PRO:CD	2:C:263:ASP:CB	2.90	0.42
2:C:260:LEU:HA	2:C:291:ALA:HB2	2.00	0.42
2:C:328:LEU:HD13	2:C:328:LEU:H	1.85	0.42
2:C:417:GLY:C	2:C:418:LEU:HD12	2.45	0.42
2:C:518:LYS:HE2	2:C:518:LYS:HB2	1.73	0.42
2:C:521:PRO:HG3	3:D:1068:LEU:CD2	2.49	0.42
2:C:662:GLU:CD	2:C:662:GLU:C	2.86	0.42
2:C:836:GLY:HA3	2:C:1001:VAL:CG2	2.49	0.42
2:C:1099:VAL:HA	3:D:9:ARG:O	2.18	0.42
3:D:207:PHE:CD1	2:H:283:ILE:HB	2.52	0.42
3:D:465:LEU:HD11	3:D:512:MET:HB2	2.01	0.42
3:D:467:GLU:O	3:D:468:LEU:C	2.62	0.42
3:D:956:ILE:HD11	3:D:1062:ARG:HB3	2.01	0.42
3:D:956:ILE:CD1	3:D:1062:ARG:HG3	2.49	0.42
2:H:39:ARG:HD3	2:H:45:GLN:OE1	2.20	0.42
2:H:80:GLN:O	2:H:83:CYS:N	2.52	0.42
2:H:368:THR:CB	2:H:369:PRO:CD	2.98	0.42
2:H:557:ARG:HH21	2:H:879:ARG:HE	1.67	0.42
2:H:722:ILE:CD1	2:H:741:GLY:HA3	2.50	0.42
2:H:838:LYS:NZ	6:S:15:G:O2'	2.53	0.42
3:I:617:ASN:HB2	3:I:1467:ILE:HG23	2.02	0.42
3:I:632:VAL:C	3:I:740:PHE:CE2	2.98	0.42
3:I:703:ASN:ND2	3:I:704:ARG:H	2.18	0.42
3:I:1068:LEU:O	3:I:1069:GLU:C	2.61	0.42
3:I:1453:ALA:O	3:I:1454:GLY:C	2.63	0.42
3:I:1481:VAL:HG12	4:J:21:VAL:HG21	2.02	0.42
4:J:57:ASP:N	4:J:58:PRO:HD3	2.34	0.42
1:K:144:VAL:HG12	1:K:145:ASP:N	2.35	0.42
2:M:72:ARG:CZ	2:M:95:TYR:OH	2.67	0.42
2:M:83:CYS:HB3	2:M:128:ILE:HG21	2.02	0.42
2:M:236:ILE:H	2:M:236:ILE:HD13	1.80	0.42
3:N:189:GLN:NE2	3:N:190:GLU:N	2.57	0.42
3:N:632:VAL:C	3:N:740:PHE:CE2	2.98	0.42
3:N:639:LEU:HD12	3:N:640:HIS:H	1.85	0.42
3:N:705:ALA:HB3	3:N:706:PRO:CD	2.49	0.42
3:N:1132:LEU:N	3:N:1132:LEU:HD12	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1377:LYS:O	3:N:1377:LYS:CG	2.67	0.42
3:N:1397:LYS:NZ	3:N:1432:LYS:HZ3	2.18	0.42
3:N:1437:ALA:O	3:N:1439:SER:N	2.53	0.42
4:O:33:HIS:HE1	4:O:90:GLU:OE2	2.02	0.42
1:B:24:VAL:HG13	1:B:196:THR:HG22	2.02	0.42
1:B:185:ARG:HD3	3:D:692:GLU:HG2	2.01	0.42
2:C:20:GLU:HG3	2:C:21:ILE:N	2.35	0.42
2:C:22:GLN:HB3	2:C:121:MET:HE1	2.00	0.42
2:C:569:VAL:HA	2:C:570:PRO:HD3	1.93	0.42
2:C:684:PHE:CG	2:C:685:GLU:N	2.86	0.42
2:C:752:GLY:H	2:C:792:VAL:HB	1.85	0.42
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.19	0.42
3:D:412:GLY:HA2	3:D:434:ARG:CD	2.49	0.42
3:D:785:ILE:CD1	3:D:785:ILE:N	2.51	0.42
3:D:827:ILE:C	3:D:828:LYS:CG	2.91	0.42
3:D:1149:LEU:CD2	3:D:1187:PRO:O	2.68	0.42
3:D:1371:VAL:HG12	3:D:1375:MET:HE2	2.01	0.42
3:D:1442:ASN:ND2	3:D:1445:HIS:H	2.17	0.42
4:E:53:GLY:C	4:E:55:PHE:N	2.78	0.42
1:F:111:ALA:HA	1:F:129:ILE:HD11	2.02	0.42
1:G:172:SER:HA	1:G:173:PRO:HD3	1.92	0.42
1:G:185:ARG:HD3	3:I:692:GLU:CD	2.43	0.42
2:H:147:TYR:CE2	2:H:330:ASN:HB3	2.55	0.42
2:H:198:ARG:NH1	2:H:228:ALA:O	2.52	0.42
2:H:209:ARG:O	2:H:213:ALA:HB2	2.19	0.42
2:H:1055:LEU:O	2:H:1063:ARG:HB2	2.20	0.42
3:I:29:PRO:HG3	3:I:549:ASN:HD21	1.85	0.42
3:I:93:ILE:HG13	3:I:519:VAL:CG2	2.50	0.42
3:I:511:TRP:N	3:I:511:TRP:CD2	2.88	0.42
3:I:570:GLU:O	3:I:571:LYS:C	2.62	0.42
3:I:625:TYR:HB3	3:I:749:VAL:CG2	2.47	0.42
3:I:1031:ASN:HB3	3:I:1034:GLN:HG3	2.02	0.42
3:I:1264:GLU:CD	3:I:1424:VAL:CG1	2.93	0.42
3:I:1311:LEU:HD23	3:I:1311:LEU:H	1.83	0.42
1:K:30:ARG:HG2	1:K:30:ARG:HH11	1.84	0.42
2:M:128:ILE:HG12	2:M:133:ASP:OD1	2.19	0.42
2:M:205:GLU:HA	2:M:209:ARG:NH1	2.34	0.42
2:M:353:ARG:HH11	2:M:353:ARG:HG3	1.85	0.42
2:M:437:ARG:C	2:M:438:ILE:HD12	2.45	0.42
2:M:545:ASN:O	2:M:905:ILE:HD11	2.20	0.42
2:M:568:ALA:HB2	2:M:995:MET:SD	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:571:LEU:HD11	2:M:700:TYR:C	2.44	0.42
3:N:86:ARG:HG2	3:N:87:ARG:N	2.35	0.42
3:N:143:ASN:HB2	3:N:161:LEU:HD23	2.01	0.42
3:N:375:GLU:HG2	3:N:375:GLU:O	2.18	0.42
3:N:520:LEU:HD11	3:N:524:LEU:CD2	2.49	0.42
3:N:727:GLN:HE21	3:N:727:GLN:HB3	1.65	0.42
3:N:804:LEU:HB3	3:N:830:ALA:O	2.20	0.42
3:N:885:ILE:HD12	3:N:937:TYR:CZ	2.55	0.42
3:N:1146:GLY:CA	3:N:1207:TYR:HB2	2.50	0.42
3:N:1437:ALA:HB1	3:N:1446:VAL:HG22	2.01	0.42
7:X:85:LEU:HD21	7:X:121:ASP:CG	2.45	0.42
7:Y:123:SER:O	7:Y:124:PRO:C	2.63	0.42
7:Z:84:GLY:HA2	7:Z:130:LEU:CD1	2.48	0.42
2:C:54:ILE:HD12	2:C:355:VAL:HG13	2.01	0.42
2:C:568:ALA:HB1	2:C:668:LEU:HB3	2.02	0.42
2:C:691:SER:O	2:C:693:GLU:N	2.53	0.42
2:C:835:VAL:HA	2:C:849:VAL:HG12	2.01	0.42
2:C:862:PRO:CG	2:C:925:TYR:OH	2.67	0.42
2:C:918:LEU:HD23	2:C:968:LEU:HA	2.02	0.42
2:C:927:GLY:HA2	2:C:930:LYS:HD3	2.02	0.42
2:C:1019:GLN:OE1	3:D:621:LYS:HB3	2.20	0.42
3:D:638:LYS:C	3:D:640:HIS:N	2.76	0.42
3:D:638:LYS:C	3:D:640:HIS:H	2.28	0.42
3:D:645:PRO:CD	3:D:726:ILE:HG12	2.45	0.42
3:D:814:ALA:HB1	3:D:818:ARG:NE	2.34	0.42
3:D:1025:GLN:HA	3:D:1025:GLN:NE2	2.35	0.42
1:F:144:VAL:HG12	1:F:145:ASP:N	2.35	0.42
1:F:185:ARG:NH2	1:F:194:LYS:NZ	2.68	0.42
1:G:67:THR:CB	1:L:159:LYS:HG3	2.50	0.42
1:G:112:ARG:HH12	1:G:126:ASP:CG	2.25	0.42
2:H:54:ILE:HG21	2:H:66:LEU:HB3	2.02	0.42
2:H:135:VAL:C	2:H:136:ILE:HD12	2.45	0.42
2:H:218:VAL:HA	2:H:221:LEU:CD2	2.50	0.42
2:H:258:TYR:OH	2:H:290:LEU:HD21	2.20	0.42
2:H:343:GLN:CA	2:H:343:GLN:HE21	2.33	0.42
2:H:498:GLN:NE2	2:H:498:GLN:CA	2.73	0.42
2:H:644:VAL:HG22	2:H:647:GLN:OE1	2.19	0.42
2:H:837:ASP:O	2:H:848:VAL:HG13	2.19	0.42
3:I:638:LYS:C	3:I:640:HIS:H	2.28	0.42
3:I:845:ASN:O	3:I:848:GLU:HB2	2.20	0.42
3:I:885:ILE:HD12	3:I:937:TYR:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:1155:VAL:HG11	3:I:1177:ALA:CB	2.50	0.42
2:M:304:LEU:O	2:M:308:ARG:N	2.47	0.42
2:M:368:THR:HG22	2:M:369:PRO:CD	2.48	0.42
2:M:401:LEU:CD1	2:M:587:VAL:HG11	2.43	0.42
2:M:568:ALA:HB1	2:M:668:LEU:HB3	2.02	0.42
2:M:733:ALA:C	2:M:734:LEU:HD12	2.45	0.42
2:M:974:LEU:HD12	2:M:974:LEU:HA	1.88	0.42
2:M:1094:ALA:CB	3:N:603:LEU:CD1	2.97	0.42
3:N:116:LEU:CD1	3:N:461:ILE:HG23	2.50	0.42
3:N:704:ARG:CG	3:N:736:PHE:HB3	2.50	0.42
3:N:922:LEU:N	3:N:922:LEU:CD2	2.75	0.42
3:N:940:THR:O	3:N:941:PHE:C	2.61	0.42
3:N:975:GLU:OE1	3:N:975:GLU:HA	2.20	0.42
3:N:1305:LEU:N	3:N:1305:LEU:HD23	2.35	0.42
3:N:1314:LYS:HZ3	3:N:1314:LYS:HG3	1.03	0.42
3:N:1356:TYR:N	3:N:1356:TYR:CD1	2.88	0.42
4:O:3:GLU:OE1	4:O:3:GLU:HA	2.19	0.42
7:Y:21:ARG:O	7:Y:25:ARG:HG3	2.19	0.42
1:A:223:THR:O	1:A:225:PHE:N	2.52	0.41
1:B:151:VAL:HB	1:B:169:ALA:HB3	2.02	0.41
2:C:348:LEU:HD12	2:C:348:LEU:HA	1.83	0.41
2:C:670:GLN:HB2	2:C:700:TYR:CE1	2.55	0.41
2:C:728:HIS:O	2:C:729:LEU:CD2	2.68	0.41
2:C:754:ILE:CD1	2:C:791:ARG:HH12	2.33	0.41
2:C:831:ARG:NH1	2:C:1000:MET:HG3	2.35	0.41
2:C:837:ASP:O	2:C:848:VAL:HG13	2.19	0.41
2:C:1103:ASP:HB3	2:C:1105:LYS:NZ	2.35	0.41
3:D:438:ASP:CG	3:D:441:ARG:NH2	2.78	0.41
3:D:451:ASP:O	3:D:452:ILE:HG23	2.20	0.41
3:D:632:VAL:C	3:D:740:PHE:CE2	2.98	0.41
3:D:806:PHE:CE1	3:D:813:LEU:CB	2.88	0.41
3:D:885:ILE:HD12	3:D:937:TYR:CZ	2.55	0.41
3:D:940:THR:O	3:D:941:PHE:C	2.61	0.41
3:D:970:LYS:HA	3:D:973:GLN:HE21	1.86	0.41
3:D:970:LYS:O	3:D:974:ILE:HG13	2.19	0.41
3:D:975:GLU:OE1	3:D:975:GLU:HA	2.20	0.41
3:D:1287:GLU:OE1	3:D:1287:GLU:CA	2.66	0.41
3:D:1341:PRO:C	3:D:1343:ALA:N	2.77	0.41
3:D:1363:LEU:HD23	3:D:1363:LEU:H	1.84	0.41
3:D:1401:GLU:OE2	3:D:1402:ALA:N	2.52	0.41
3:D:1487:VAL:CG2	4:E:79:LEU:HD23	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:165:ILE:HA	1:G:166:PRO:HD3	1.82	0.41
2:H:140:ILE:HG22	2:H:333:ILE:HG13	2.02	0.41
2:H:141:HIS:CD2	2:H:334:ARG:HD2	2.55	0.41
2:H:437:ARG:C	2:H:438:ILE:HD12	2.45	0.41
2:H:557:ARG:NH1	2:H:557:ARG:HG3	2.35	0.41
2:H:679:PHE:C	3:I:943:THR:HG21	2.44	0.41
2:H:701:THR:HA	2:H:831:ARG:O	2.20	0.41
2:H:742:VAL:CG1	2:H:743:VAL:N	2.83	0.41
2:H:879:ARG:CZ	7:Y:42:ASP:OD1	2.68	0.41
2:H:918:LEU:HD23	2:H:968:LEU:HA	2.01	0.41
2:H:972:VAL:HG23	2:H:973:VAL:N	2.33	0.41
3:I:12:LEU:HD23	3:I:12:LEU:HA	1.81	0.41
3:I:129:PHE:CD2	3:I:575:GLN:HG2	2.55	0.41
3:I:844:ALA:O	3:I:867:ARG:HB3	2.20	0.41
3:I:1305:LEU:O	3:I:1306:PRO:O	2.38	0.41
3:I:1434:TRP:O	3:I:1435:LEU:C	2.63	0.41
4:J:26:ARG:NH2	4:J:67:GLU:OE1	2.53	0.41
4:J:26:ARG:HD3	4:J:73:LEU:HD21	2.01	0.41
4:J:63:TRP:O	4:J:64:ALA:C	2.63	0.41
1:K:39:PRO:HG3	1:L:39:PRO:HG3	2.00	0.41
1:K:124:ASN:ND2	1:K:127:LEU:CD2	2.82	0.41
2:M:101:ILE:O	2:M:101:ILE:HG23	2.19	0.41
2:M:258:TYR:CZ	2:M:290:LEU:HD21	2.55	0.41
2:M:449:ILE:C	2:M:451:LEU:N	2.78	0.41
2:M:452:ILE:HD12	2:M:452:ILE:N	2.35	0.41
2:M:539:VAL:O	2:M:539:VAL:HG12	2.19	0.41
2:M:688:ILE:HG23	2:M:869:VAL:HG23	2.02	0.41
2:M:708:TYR:CD1	2:M:708:TYR:N	2.88	0.41
2:M:794:PRO:HG2	2:M:1025:ALA:C	2.45	0.41
2:M:911:GLU:OE1	3:N:951:ILE:HG12	2.17	0.41
2:M:972:VAL:HG23	2:M:973:VAL:N	2.34	0.41
2:M:1049:LEU:O	2:M:1053:LEU:HG	2.19	0.41
3:N:570:GLU:O	3:N:571:LYS:C	2.62	0.41
3:N:615:ARG:HG3	3:N:619:LEU:CD1	2.50	0.41
3:N:686:GLU:H	3:N:686:GLU:HG3	1.56	0.41
3:N:703:ASN:HD22	3:N:704:ARG:H	1.67	0.41
3:N:879:ARG:CG	3:N:879:ARG:HH11	2.33	0.41
3:N:1068:LEU:O	3:N:1069:GLU:C	2.61	0.41
3:N:1106:VAL:CG1	3:N:1107:VAL:N	2.79	0.41
3:N:1161:GLU:OE2	3:N:1161:GLU:N	2.53	0.41
3:N:1403:LEU:O	3:N:1407:LEU:HD13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:26:GLU:HB3	1:A:194:LYS:HG3	2.01	0.41
1:A:64:GLU:CD	2:C:830:LYS:HE2	2.45	0.41
1:B:101:LEU:HD12	1:B:114:PHE:CA	2.50	0.41
2:C:75:GLU:OE1	2:C:75:GLU:HA	2.20	0.41
2:C:452:ILE:HD12	2:C:452:ILE:N	2.36	0.41
2:C:557:ARG:NH1	2:C:557:ARG:HG3	2.34	0.41
2:C:706:GLU:CG	2:C:708:TYR:CE1	3.03	0.41
2:C:987:ILE:CD1	3:D:948:THR:HG23	2.49	0.41
2:C:1081:VAL:HB	2:C:1111:ILE:HG22	1.99	0.41
2:C:1090:LYS:CE	3:D:90:MET:SD	3.07	0.41
3:D:108:VAL:CB	3:D:109:PRO:CD	2.95	0.41
3:D:185:VAL:O	3:D:200:ASP:HA	2.20	0.41
3:D:660:LYS:HA	3:D:660:LYS:CE	2.50	0.41
3:D:785:ILE:O	3:D:786:ILE:C	2.63	0.41
3:D:926:LYS:NZ	3:D:929:ARG:HH12	2.18	0.41
3:D:1256:LEU:HB3	3:D:1257:PRO:CD	2.46	0.41
1:F:223:THR:O	1:F:225:PHE:N	2.52	0.41
1:G:228:PRO:O	1:G:229:GLN:HG3	2.20	0.41
2:H:395:LYS:HG2	2:H:397:GLU:CG	2.51	0.41
2:H:470:PRO:HB2	2:H:534:VAL:HG21	2.02	0.41
2:H:676:ILE:HG23	3:I:948:THR:HB	2.02	0.41
2:H:754:ILE:CD1	2:H:791:ARG:HH12	2.33	0.41
2:H:851:LYS:HG2	2:H:853:LEU:CD1	2.50	0.41
2:H:931:GLY:C	2:H:933:GLY:H	2.29	0.41
2:H:1046:ALA:HA	3:I:1472:ILE:CD1	2.51	0.41
2:H:1103:ASP:HB3	2:H:1105:LYS:NZ	2.35	0.41
3:I:704:ARG:CG	3:I:736:PHE:HB3	2.50	0.41
3:I:955:VAL:O	3:I:1039:CYS:HB3	2.20	0.41
3:I:1258:ARG:HE	3:I:1262:LEU:CD2	2.33	0.41
3:I:1372:VAL:HG13	3:I:1373:ARG:N	2.34	0.41
2:M:83:CYS:HB3	2:M:88:LEU:O	2.19	0.41
2:M:231:PRO:HB2	2:M:232:GLU:H	1.52	0.41
2:M:320:HIS:CD2	2:M:320:HIS:H	2.38	0.41
2:M:470:PRO:HB2	2:M:534:VAL:HG21	2.01	0.41
2:M:573:ARG:CB	2:M:670:GLN:NE2	2.83	0.41
2:M:691:SER:O	2:M:693:GLU:N	2.53	0.41
2:M:1050:GLN:HE21	2:M:1050:GLN:HA	1.85	0.41
2:M:1074:GLU:CG	2:M:1075:ASP:H	2.05	0.41
2:M:1095:LEU:HB2	3:N:101:HIS:HE1	1.81	0.41
3:N:86:ARG:O	3:N:87:ARG:C	2.61	0.41
3:N:87:ARG:CB	3:N:524:LEU:HD12	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:131:LYS:HG2	3:N:456:MET:SD	2.61	0.41
3:N:514:LEU:HD12	3:N:578:VAL:CG1	2.50	0.41
3:N:925:GLU:O	3:N:928:ALA:HB3	2.20	0.41
3:N:1278:ASP:HB3	3:N:1321:ALA:N	2.35	0.41
4:O:22:VAL:HG23	4:O:22:VAL:H	1.60	0.41
7:X:36:LEU:O	7:X:39:SER:OG	2.31	0.41
7:X:124:PRO:O	7:X:140:LEU:HD11	2.19	0.41
1:A:39:PRO:CG	1:B:39:PRO:HG2	2.43	0.41
1:B:56:VAL:O	1:B:164:ALA:HB1	2.19	0.41
2:C:42:VAL:HB	2:C:43:GLY:H	1.60	0.41
2:C:184:MET:SD	2:C:191:PHE:CE1	3.13	0.41
2:C:252:LYS:O	2:C:255:ALA:HB3	2.20	0.41
2:C:265:ARG:HB3	2:C:267:TYR:CD1	2.55	0.41
2:C:276:LYS:HA	2:C:280:LYS:CD	2.39	0.41
2:C:276:LYS:CA	2:C:280:LYS:HD2	2.40	0.41
2:C:470:PRO:HB2	2:C:534:VAL:HG21	2.02	0.41
2:C:612:VAL:HG22	2:C:622:GLU:HG3	2.02	0.41
2:C:1082:PRO:C	2:C:1084:SER:N	2.78	0.41
3:D:11:ALA:HB1	3:D:507:ASN:HD22	1.84	0.41
3:D:351:MET:HG3	3:D:370:ALA:HB2	2.02	0.41
3:D:632:VAL:CG2	3:D:725:SER:CB	2.99	0.41
3:D:879:ARG:HH11	3:D:879:ARG:CG	2.33	0.41
3:D:919:PHE:HZ	3:D:1211:MET:HA	1.85	0.41
3:D:925:GLU:O	3:D:928:ALA:HB3	2.21	0.41
3:D:1330:ILE:CD1	3:D:1347:TYR:OH	2.63	0.41
2:H:73:LEU:C	2:H:73:LEU:CD1	2.90	0.41
2:H:229:MET:CB	2:H:230:ARG:NH1	2.83	0.41
2:H:266:ARG:HD3	2:H:288:ARG:NE	2.34	0.41
2:H:292:ARG:CB	2:H:299:LYS:HE2	2.50	0.41
2:H:392:SER:C	2:H:393:GLN:HG3	2.45	0.41
2:H:500:ASN:HD22	2:H:500:ASN:H	1.60	0.41
2:H:1076:VAL:HA	2:H:1077:PRO:HD3	1.98	0.41
3:I:650:LEU:CD1	3:I:688:TRP:HZ3	2.26	0.41
3:I:660:LYS:HA	3:I:660:LYS:CE	2.50	0.41
3:I:820:GLU:HG3	3:I:836:VAL:CG2	2.49	0.41
3:I:899:LEU:HD13	3:I:914:LEU:CD2	2.50	0.41
3:I:970:LYS:NZ	7:Y:113:LEU:HA	2.35	0.41
3:I:1084:THR:HA	3:I:1087:ARG:HD3	2.02	0.41
3:I:1288:GLU:HA	3:I:1307:LYS:HD3	2.03	0.41
1:L:48:ILE:HG22	1:L:173:PRO:HD2	2.01	0.41
2:M:35:PRO:C	2:M:37:GLU:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:174:LEU:HD21	2:M:184:MET:HG3	2.01	0.41
2:M:391:LEU:HD23	2:M:391:LEU:C	2.43	0.41
2:M:449:ILE:CG2	3:N:1082:ALA:HA	2.46	0.41
2:M:817:PRO:C	2:M:819:VAL:H	2.29	0.41
2:M:927:GLY:HA2	2:M:930:LYS:HD3	2.02	0.41
3:N:374:GLU:O	3:N:375:GLU:HB3	2.19	0.41
3:N:415:VAL:HG12	3:N:416:ALA:N	2.36	0.41
3:N:672:ALA:O	3:N:676:MET:N	2.49	0.41
3:N:703:ASN:ND2	3:N:704:ARG:H	2.18	0.41
3:N:992:ILE:CD1	3:N:1054:GLU:OE2	2.66	0.41
3:N:1026:SER:C	3:N:1028:ALA:N	2.74	0.41
3:N:1109:GLU:HG3	3:N:1217:ILE:HD12	2.01	0.41
4:O:43:GLU:O	4:O:44:GLU:CB	2.68	0.41
4:O:60:ALA:O	4:O:63:TRP:HB2	2.20	0.41
7:X:55:LYS:NZ	7:X:59:GLU:OE2	2.53	0.41
1:A:111:ALA:HA	1:A:129:ILE:HD11	2.02	0.41
1:A:144:VAL:HG12	1:A:145:ASP:N	2.35	0.41
1:B:122:ILE:H	1:B:122:ILE:CD1	2.11	0.41
2:C:54:ILE:CD1	2:C:355:VAL:HG13	2.51	0.41
2:C:94:LEU:O	2:C:115:LEU:HG	2.19	0.41
2:C:428:ARG:HG3	2:C:451:LEU:HD21	2.03	0.41
2:C:458:TYR:CB	2:C:470:PRO:HG3	2.50	0.41
2:C:676:ILE:HD12	2:C:871:LEU:HB2	2.03	0.41
2:C:693:GLU:HG2	2:C:697:ARG:HH21	1.85	0.41
2:C:758:ARG:CB	2:C:788:THR:O	2.62	0.41
2:C:937:ASP:HB3	2:C:940:GLU:HG3	2.02	0.41
3:D:403:PHE:HD2	3:D:444:VAL:HG23	1.80	0.41
3:D:481:MET:HE2	3:D:493:ARG:HB2	2.02	0.41
3:D:631:ILE:HD13	3:D:631:ILE:C	2.46	0.41
3:D:638:LYS:HD3	3:D:932:ASP:OD1	2.21	0.41
3:D:761:ILE:O	3:D:767:HIS:HD2	2.03	0.41
3:D:806:PHE:C	3:D:808:THR:H	2.28	0.41
3:D:826:PRO:C	3:D:828:LYS:H	2.28	0.41
3:D:952:ASP:HA	3:D:1062:ARG:HH11	1.85	0.41
3:D:963:TYR:HD2	3:D:1002:LYS:HD3	1.81	0.41
3:D:1305:LEU:HD12	3:D:1309:ALA:HB1	2.03	0.41
3:D:1488:ASP:C	3:D:1490:LYS:N	2.77	0.41
4:E:47:LYS:C	4:E:54:LEU:CD1	2.93	0.41
4:E:54:LEU:CD2	4:E:58:PRO:HD2	2.43	0.41
1:G:24:VAL:HG13	1:G:196:THR:HG22	2.03	0.41
1:G:101:LEU:HD12	1:G:114:PHE:CA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:141:HIS:HB3	2:H:418:LEU:CD2	2.46	0.41
2:H:242:LEU:HD11	2:H:254:VAL:CG1	2.49	0.41
2:H:272:ALA:O	2:H:464:LEU:HD21	2.20	0.41
2:H:350:ARG:O	2:H:353:ARG:HB3	2.20	0.41
2:H:927:GLY:HA2	2:H:930:LYS:HD3	2.02	0.41
3:I:540:LEU:HA	3:I:543:LEU:CD1	2.31	0.41
3:I:761:ILE:O	3:I:767:HIS:HD2	2.03	0.41
3:I:783:ARG:HD3	7:Y:41:ASP:OD2	2.20	0.41
3:I:834:THR:CA	3:I:838:ARG:HD3	2.51	0.41
3:I:970:LYS:HZ1	7:Y:113:LEU:HA	1.86	0.41
3:I:1052:THR:HG21	7:Y:57:ARG:HH11	1.86	0.41
1:L:25:LEU:O	1:L:25:LEU:HD23	2.19	0.41
1:L:105:GLY:O	1:L:132:LEU:HB3	2.21	0.41
2:M:557:ARG:NH1	2:M:557:ARG:HG3	2.34	0.41
2:M:706:GLU:OE2	2:M:706:GLU:HA	2.20	0.41
2:M:742:VAL:CG1	2:M:743:VAL:N	2.83	0.41
2:M:787:ASP:OD1	2:M:791:ARG:NH2	2.53	0.41
2:M:1012:PRO:CD	2:M:1026:GLN:HG2	2.40	0.41
3:N:127:LEU:HD12	3:N:127:LEU:N	2.33	0.41
3:N:617:ASN:ND2	3:N:1466:VAL:HG12	2.33	0.41
3:N:857:ILE:HD13	3:N:857:ILE:HA	1.83	0.41
3:N:1109:GLU:CD	3:N:1110:ALA:N	2.78	0.41
3:N:1121:PRO:C	3:N:1122:LEU:HD12	2.45	0.41
4:O:37:ASN:HD21	4:O:93:TYR:HB3	1.85	0.41
5:P:17:DG:H2'	5:P:18:DC:H6	1.85	0.41
7:Y:103:GLN:HE21	7:Y:105:VAL:HG11	1.85	0.41
1:A:45:LEU:HD11	1:A:177:VAL:CG2	2.51	0.41
1:B:57:TYR:C	1:B:58:ILE:HD12	2.44	0.41
1:B:58:ILE:HB	1:B:61:VAL:HB	2.03	0.41
1:B:142:VAL:HG23	1:B:142:VAL:O	2.21	0.41
2:C:304:LEU:O	2:C:308:ARG:N	2.50	0.41
2:C:1063:ARG:HE	2:C:1063:ARG:HB3	1.30	0.41
3:D:28:LYS:CG	3:D:29:PRO:CD	2.90	0.41
3:D:141:ILE:HD13	3:D:142:LEU:C	2.45	0.41
3:D:573:MET:O	3:D:576:GLU:HB2	2.20	0.41
3:D:642:CYS:HB3	3:D:716:PHE:HB3	1.99	0.41
3:D:844:ALA:O	3:D:867:ARG:HB3	2.20	0.41
3:D:991:GLN:OE1	7:X:112:VAL:N	2.51	0.41
3:D:1146:GLY:HA3	3:D:1207:TYR:CB	2.41	0.41
3:D:1209:LEU:O	3:D:1211:MET:O	2.37	0.41
3:D:1273:VAL:HG21	3:D:1305:LEU:CD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1467:ILE:O	3:D:1468:LEU:C	2.63	0.41
1:G:56:VAL:CG1	1:G:57:TYR:N	2.83	0.41
2:H:17:PRO:O	2:H:20:GLU:HG2	2.20	0.41
2:H:328:LEU:HB2	2:H:488:ALA:HB2	2.00	0.41
2:H:677:MET:HA	2:H:678:PRO:HD3	1.89	0.41
2:H:694:LEU:HD11	2:H:868:ASP:HB3	2.02	0.41
2:H:1070:ILE:HG23	3:I:656:PHE:CD1	2.56	0.41
3:I:99:ALA:O	3:I:514:LEU:O	2.38	0.41
3:I:185:VAL:HG21	3:I:203:ALA:HB2	2.02	0.41
3:I:514:LEU:HD12	3:I:578:VAL:CG1	2.50	0.41
3:I:590:PRO:O	3:I:600:LEU:HD12	2.20	0.41
3:I:820:GLU:HB2	3:I:836:VAL:HG21	2.03	0.41
3:I:826:PRO:C	3:I:828:LYS:H	2.28	0.41
3:I:857:ILE:HD13	3:I:857:ILE:HA	1.84	0.41
3:I:956:ILE:HD11	3:I:1062:ARG:CG	2.50	0.41
3:I:1254:GLN:CG	3:I:1355:VAL:HG13	2.50	0.41
1:L:150:TYR:HE1	1:L:170:VAL:HG12	1.85	0.41
2:M:343:GLN:HA	2:M:346:VAL:CG2	2.49	0.41
2:M:472:ARG:HH11	2:M:481:ASP:HA	1.86	0.41
2:M:882:LEU:O	2:M:883:GLY:C	2.63	0.41
2:M:1037:VAL:O	2:M:1038:TRP:C	2.63	0.41
2:M:1082:PRO:C	2:M:1084:SER:N	2.77	0.41
3:N:185:VAL:O	3:N:200:ASP:OD1	2.39	0.41
3:N:208:PRO:HG3	3:N:353:VAL:CG1	2.50	0.41
3:N:561:GLY:O	3:N:563:PRO:CD	2.65	0.41
3:N:603:LEU:C	3:N:606:ILE:HG22	2.39	0.41
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.71	0.41
3:N:793:THR:O	3:N:879:ARG:NH1	2.54	0.41
3:N:908:LYS:CB	3:N:1027:GLY:HA3	2.48	0.41
3:N:1029:ARG:NH1	3:N:1029:ARG:HA	2.36	0.41
3:N:1155:VAL:CG1	3:N:1177:ALA:CB	2.99	0.41
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.20	0.41
3:N:1370:ILE:HG13	3:N:1370:ILE:H	1.59	0.41
3:N:1471:LEU:HD12	3:N:1471:LEU:HA	1.95	0.41
7:X:11:GLY:CA	7:X:109:GLU:OE1	2.69	0.41
7:X:37:MET:HG3	7:X:48:LEU:HD11	2.02	0.41
7:Y:74:ILE:C	7:Y:75:LEU:HD12	2.45	0.41
7:Y:91:LEU:HD23	7:Y:91:LEU:N	2.35	0.41
2:C:36:PRO:O	2:C:39:ARG:CG	2.53	0.41
2:C:49:ARG:O	2:C:53:PRO:HD2	2.20	0.41
2:C:151:ASP:OD2	2:C:152:PRO:HD2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:241:LEU:HD23	2:C:241:LEU:O	2.20	0.41
2:C:573:ARG:CB	2:C:670:GLN:NE2	2.83	0.41
2:C:863:ASP:OD1	2:C:865:THR:CG2	2.67	0.41
3:D:568:ARG:O	3:D:569:ASN:C	2.62	0.41
3:D:658:LEU:O	3:D:661:MET:CB	2.68	0.41
3:D:683:ILE:O	3:D:683:ILE:CG2	2.67	0.41
3:D:834:THR:CA	3:D:838:ARG:HD3	2.50	0.41
3:D:1148:VAL:O	3:D:1188:VAL:HG23	2.20	0.41
3:D:1295:GLU:HB3	3:D:1300:SER:HB3	2.02	0.41
3:D:1356:TYR:CD1	3:D:1356:TYR:N	2.88	0.41
3:D:1447:LEU:HD12	3:D:1447:LEU:N	2.35	0.41
1:F:117:VAL:HB	1:F:120:VAL:CG1	2.50	0.41
2:H:39:ARG:O	2:H:40:GLU:O	2.38	0.41
2:H:40:GLU:HG3	2:H:42:VAL:H	1.85	0.41
2:H:261:ILE:HD12	2:H:262:ALA:N	2.34	0.41
2:H:374:ASN:ND2	2:H:374:ASN:O	2.54	0.41
2:H:835:VAL:HA	2:H:849:VAL:HG12	2.02	0.41
2:H:874:LEU:O	3:I:1029:ARG:HD2	2.20	0.41
3:I:510:GLU:O	3:I:513:ILE:CG1	2.63	0.41
3:I:639:LEU:HD12	3:I:640:HIS:H	1.85	0.41
3:I:879:ARG:HH11	3:I:879:ARG:CG	2.34	0.41
3:I:901:GLN:H	3:I:901:GLN:HG2	1.77	0.41
3:I:964:LEU:O	3:I:968:ASP:HB2	2.21	0.41
3:I:1126:ASP:OD1	3:I:1127:GLU:N	2.53	0.41
3:I:1278:ASP:HB3	3:I:1321:ALA:N	2.35	0.41
3:I:1341:PRO:C	3:I:1343:ALA:N	2.77	0.41
1:K:18:ARG:HH11	1:K:123:MET:CE	2.34	0.41
1:K:176:ARG:NH1	2:M:865:THR:HB	2.36	0.41
2:M:300:ASP:C	2:M:302:VAL:H	2.27	0.41
2:M:462:ASP:CG	2:M:463:GLU:N	2.76	0.41
2:M:575:GLN:O	2:M:667:ALA:HB1	2.21	0.41
2:M:677:MET:HA	2:M:678:PRO:HD3	1.89	0.41
2:M:730:SER:O	2:M:734:LEU:CD1	2.67	0.41
2:M:957:LYS:CD	2:M:961:GLU:CB	2.95	0.41
3:N:372:ASP:O	3:N:374:GLU:N	2.52	0.41
3:N:632:VAL:CG2	3:N:725:SER:CB	2.99	0.41
3:N:841:TYR:HB2	3:N:864:VAL:HG13	2.03	0.41
3:N:899:LEU:HD13	3:N:914:LEU:CD2	2.50	0.41
3:N:1434:TRP:HZ3	3:N:1455:LYS:O	2.04	0.41
1:A:180:GLN:HE21	1:A:180:GLN:HB3	1.55	0.41
1:B:41:ARG:O	1:B:42:ARG:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:80:LEU:HG	3:D:844:ALA:CB	2.51	0.41
2:C:86:LYS:O	2:C:813:VAL:HG23	2.20	0.41
2:C:89:THR:HG21	2:C:383:ARG:HH21	1.84	0.41
2:C:492:ASP:OD2	2:C:518:LYS:CG	2.66	0.41
2:C:885:ILE:HG21	3:D:950:GLY:HA2	2.02	0.41
2:C:1098:ASP:CB	3:D:11:ALA:O	2.57	0.41
3:D:177:ALA:HB3	3:D:390:PRO:HG2	2.02	0.41
3:D:189:GLN:C	3:D:196:VAL:HG13	2.46	0.41
3:D:191:LEU:HD21	3:D:197:SER:OG	2.21	0.41
3:D:361:VAL:HG12	3:D:383:GLY:H	1.84	0.41
3:D:412:GLY:HA2	3:D:434:ARG:CZ	2.49	0.41
3:D:1372:VAL:HG13	3:D:1373:ARG:N	2.34	0.41
3:D:1403:LEU:O	3:D:1407:LEU:HD13	2.20	0.41
2:H:52:PHE:O	2:H:53:PRO:C	2.64	0.41
2:H:79:PRO:HG2	2:H:82:GLU:HB2	2.02	0.41
2:H:94:LEU:C	2:H:94:LEU:CD1	2.94	0.41
2:H:292:ARG:HG2	2:H:299:LYS:CB	2.37	0.41
2:H:626:ARG:HB2	2:H:639:GLN:HE21	1.86	0.41
2:H:691:SER:O	2:H:693:GLU:N	2.53	0.41
2:H:697:ARG:O	2:H:698:ASP:C	2.64	0.41
2:H:831:ARG:NH1	2:H:1002:GLU:HB2	2.35	0.41
2:H:854:PRO:C	2:H:856:GLU:N	2.74	0.41
3:I:158:TYR:HE1	3:I:452:ILE:HD11	1.86	0.41
3:I:521:PRO:CD	3:I:524:LEU:HD13	2.49	0.41
3:I:562:ALA:CB	3:I:567:ILE:HD11	2.50	0.41
3:I:793:THR:O	3:I:879:ARG:NH1	2.54	0.41
3:I:975:GLU:OE1	3:I:975:GLU:HA	2.20	0.41
3:I:996:TRP:O	3:I:997:THR:C	2.64	0.41
3:I:1491:THR:O	3:I:1495:ILE:HG12	2.21	0.41
2:M:73:LEU:C	2:M:73:LEU:CD1	2.90	0.41
2:M:937:ASP:HB3	2:M:940:GLU:HG3	2.02	0.41
2:M:983:ILE:O	2:M:984:GLU:C	2.64	0.41
2:M:1106:ASP:OD1	3:N:7:LYS:HD2	2.21	0.41
3:N:34:TYR:N	3:N:34:TYR:CD2	2.89	0.41
3:N:139:GLY:HA3	3:N:162:ARG:HE	1.85	0.41
3:N:356:PRO:HA	3:N:440:VAL:O	2.21	0.41
3:N:510:GLU:CD	3:N:510:GLU:H	2.29	0.41
3:N:683:ILE:HG21	3:N:688:TRP:CZ2	2.55	0.41
3:N:761:ILE:O	3:N:767:HIS:HD2	2.03	0.41
3:N:814:ALA:HB1	3:N:818:ARG:NE	2.34	0.41
3:N:826:PRO:C	3:N:828:LYS:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:834:THR:CA	3:N:838:ARG:HD3	2.51	0.41
3:N:844:ALA:O	3:N:867:ARG:HB3	2.20	0.41
3:N:1452:ILE:CD1	3:N:1452:ILE:H	2.34	0.41
7:X:16:MET:O	7:X:20:GLU:HG3	2.21	0.41
7:Z:82:VAL:CG2	7:Z:133:ARG:HH21	2.34	0.41
2:C:26:TYR:CE2	2:C:127:PHE:CE2	3.09	0.41
2:C:39:ARG:O	2:C:40:GLU:O	2.38	0.41
2:C:73:LEU:HD13	2:C:92:ALA:HB1	2.03	0.41
2:C:181:VAL:HG13	2:C:220:GLY:HA2	1.88	0.41
2:C:207:LEU:HD23	2:C:207:LEU:C	2.46	0.41
2:C:441:VAL:HG12	2:C:559:LEU:CA	2.51	0.41
3:D:112:ILE:HG21	3:D:128:TYR:OH	2.21	0.41
3:D:593:ASN:CB	3:D:594:PRO:HD2	2.51	0.41
4:E:51:LEU:C	4:E:52:GLU:OE1	2.64	0.41
1:F:92:PRO:C	1:F:94:LEU:H	2.28	0.41
1:G:48:ILE:CD1	1:G:48:ILE:N	2.82	0.41
1:G:112:ARG:CG	1:G:125:PRO:CA	2.98	0.41
2:H:22:GLN:O	2:H:23:VAL:C	2.63	0.41
2:H:65:VAL:O	2:H:100:LEU:HA	2.20	0.41
2:H:151:ASP:OD1	2:H:152:PRO:HD2	2.18	0.41
2:H:191:PHE:HA	2:H:192:PRO:HD3	1.87	0.41
2:H:236:ILE:HD12	2:H:236:ILE:H	1.85	0.41
2:H:314:THR:O	2:H:314:THR:HG22	2.21	0.41
2:H:338:GLU:O	2:H:342:ASP:HB2	2.21	0.41
2:H:544:THR:C	2:H:546:LEU:N	2.79	0.41
2:H:573:ARG:HB3	2:H:670:GLN:NE2	2.36	0.41
2:H:725:ASP:C	2:H:726:ILE:HD13	2.46	0.41
2:H:937:ASP:HB3	2:H:940:GLU:HG3	2.02	0.41
3:I:415:VAL:HG12	3:I:416:ALA:N	2.36	0.41
3:I:521:PRO:CG	3:I:524:LEU:HD13	2.50	0.41
3:I:827:ILE:C	3:I:828:LYS:HG3	2.44	0.41
3:I:1346:ARG:HD2	3:I:1346:ARG:HA	1.84	0.41
1:K:224:TYR:CG	1:L:9:PRO:HG2	2.55	0.41
1:L:101:LEU:HD12	1:L:114:PHE:CA	2.50	0.41
2:M:172:ILE:N	2:M:172:ILE:CD1	2.57	0.41
2:M:397:GLU:H	2:M:633:GLN:HG2	1.85	0.41
2:M:573:ARG:HB3	2:M:670:GLN:NE2	2.36	0.41
2:M:603:VAL:CG1	2:M:604:ALA:N	2.83	0.41
3:N:123:LEU:HD21	3:N:151:GLN:HE22	1.86	0.41
3:N:161:LEU:HA	3:N:397:LYS:NZ	2.30	0.41
3:N:209:ARG:HB2	3:N:389:GLU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:524:LEU:HD12	3:N:524:LEU:N	2.36	0.41
3:N:638:LYS:CA	3:N:932:ASP:OD1	2.66	0.41
3:N:660:LYS:HA	3:N:660:LYS:CE	2.50	0.41
3:N:1029:ARG:NH1	3:N:1029:ARG:CG	2.83	0.41
3:N:1313:VAL:HG21	3:N:1319:VAL:CG1	2.51	0.41
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	2.03	0.41
7:Y:84:GLY:HA2	7:Y:130:LEU:HD12	2.02	0.41
1:A:35:THR:HG21	1:B:43:ILE:HG12	2.03	0.41
1:B:74:ASP:O	1:B:75:VAL:C	2.64	0.41
1:B:172:SER:HA	1:B:173:PRO:HD3	1.92	0.41
1:B:212:ASN:C	1:B:215:VAL:HG22	2.40	0.41
2:C:26:TYR:CD2	2:C:121:MET:HB2	2.49	0.41
2:C:191:PHE:CE2	2:C:195:LEU:HB3	2.56	0.41
2:C:265:ARG:HD3	2:C:267:TYR:CD1	2.55	0.41
2:C:309:TYR:CE2	2:C:321:GLU:HG3	2.56	0.41
2:C:335:THR:O	2:C:339:LEU:HG	2.21	0.41
2:C:399:ASN:O	2:C:400:PRO:C	2.64	0.41
2:C:575:GLN:O	2:C:667:ALA:HB1	2.21	0.41
2:C:675:ALA:O	2:C:870:ILE:HA	2.21	0.41
2:C:1042:ALA:HB2	3:D:1223:ILE:CG2	2.50	0.41
2:C:1099:VAL:HG22	3:D:10:ILE:HG13	1.92	0.41
3:D:149:LYS:H	3:D:149:LYS:HE3	1.85	0.41
3:D:180:LYS:NZ	3:D:386:HIS:HA	2.36	0.41
3:D:520:LEU:HD11	3:D:524:LEU:CD2	2.49	0.41
3:D:554:LEU:CD1	3:D:570:GLU:HB3	2.50	0.41
3:D:703:ASN:ND2	3:D:704:ARG:H	2.18	0.41
3:D:706:PRO:HG3	6:Q:16:G:N2	2.36	0.41
3:D:820:GLU:HB2	3:D:836:VAL:HG21	2.03	0.41
3:D:862:ASP:O	3:D:876:SER:HB2	2.21	0.41
3:D:982:PHE:CD1	7:X:125:MET:CE	3.03	0.41
3:D:1083:ASP:OD2	3:D:1237:THR:HG22	2.20	0.41
3:D:1127:GLU:OE2	7:X:66:GLU:OE2	2.39	0.41
3:D:1150:ALA:HB3	3:D:1187:PRO:HB2	2.03	0.41
3:D:1168:MET:HA	3:D:1168:MET:CE	2.38	0.41
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	2.03	0.41
4:E:40:LEU:CD2	4:E:67:GLU:HA	2.51	0.41
1:G:44:LEU:CA	1:G:48:ILE:HD13	2.44	0.41
1:G:76:VAL:O	1:G:79:ILE:HG13	2.21	0.41
1:G:102:LYS:HB2	1:G:139:ASN:OD1	2.20	0.41
1:G:104:GLU:CG	1:G:137:ARG:HD2	2.51	0.41
2:H:31:GLN:HG2	2:H:34:VAL:HG23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:71:TYR:O	2:H:71:TYR:CG	2.74	0.41
2:H:78:PHE:CD1	2:H:78:PHE:N	2.88	0.41
2:H:90:TYR:CD1	2:H:120:LEU:HB2	2.55	0.41
2:H:218:VAL:C	2:H:220:GLY:N	2.77	0.41
2:H:274:ARG:HG3	2:H:285:LEU:HB3	2.01	0.41
2:H:316:GLY:C	2:H:318:PRO:HD2	2.44	0.41
2:H:333:ILE:CG1	2:H:410:ILE:HD11	2.51	0.41
2:H:395:LYS:HE2	2:H:403:SER:HB2	2.02	0.41
2:H:575:GLN:O	2:H:667:ALA:HB1	2.21	0.41
2:H:863:ASP:OD1	2:H:865:THR:CG2	2.67	0.41
2:H:1012:PRO:HD2	2:H:1026:GLN:HB2	2.01	0.41
2:H:1012:PRO:CD	2:H:1026:GLN:HG2	2.45	0.41
2:H:1047:HIS:O	2:H:1051:GLU:HB2	2.21	0.41
3:I:31:THR:O	3:I:45:PHE:HD2	2.04	0.41
3:I:142:LEU:CB	3:I:145:VAL:C	2.83	0.41
3:I:438:ASP:OD1	3:I:441:ARG:NH2	2.51	0.41
3:I:464:LEU:HA	3:I:464:LEU:HD23	1.73	0.41
3:I:481:MET:HE2	3:I:493:ARG:HB2	2.02	0.41
3:I:563:PRO:HB2	3:I:566:ILE:HG13	2.03	0.41
3:I:586:ARG:HA	3:I:586:ARG:HD3	1.94	0.41
3:I:814:ALA:HB1	3:I:818:ARG:NE	2.34	0.41
3:I:841:TYR:HB2	3:I:864:VAL:HG13	2.03	0.41
3:I:911:LEU:O	3:I:912:LYS:C	2.64	0.41
3:I:925:GLU:O	3:I:928:ALA:HB3	2.21	0.41
3:I:1101:VAL:CG1	3:I:1428:ALA:HB2	2.49	0.41
3:I:1106:VAL:HG11	3:I:1474:ALA:CB	2.51	0.41
3:I:1294:VAL:O	3:I:1300:SER:HA	2.20	0.41
4:J:62:THR:O	4:J:66:LYS:HB2	2.21	0.41
1:K:229:GLN:HE21	1:K:229:GLN:HB2	1.64	0.41
1:L:73:GLU:HG3	1:L:130:ALA:CB	2.51	0.41
1:L:91:ASN:HB2	1:L:92:PRO:HD2	2.02	0.41
1:L:184:THR:O	1:L:192:LEU:HB2	2.21	0.41
2:M:28:ARG:HG2	2:M:42:VAL:CG2	2.51	0.41
2:M:102:HIS:HD2	2:M:107:LEU:O	2.04	0.41
2:M:115:LEU:O	2:M:378:LEU:HD23	2.20	0.41
2:M:144:PRO:O	2:M:276:LYS:CD	2.69	0.41
2:M:145:GLY:HA2	2:M:276:LYS:HD3	2.03	0.41
2:M:188:LYS:HZ2	2:M:188:LYS:CA	2.34	0.41
2:M:198:ARG:HH12	2:M:203:ASP:HA	1.85	0.41
2:M:202:TYR:OH	2:M:304:LEU:HD23	2.21	0.41
2:M:328:LEU:HD22	2:M:433:THR:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:496:ILE:HA	2:M:531:PHE:O	2.20	0.41
2:M:578:VAL:HA	2:M:900:ARG:CG	2.51	0.41
2:M:625:LEU:HD11	2:M:641:PRO:HG3	2.03	0.41
2:M:702:SER:OG	2:M:1000:MET:HE1	2.20	0.41
2:M:967:PHE:CD1	2:M:972:VAL:HG12	2.56	0.41
2:M:1001:VAL:HG22	3:N:630:VAL:HG21	2.03	0.41
2:M:1058:ASP:O	2:M:1060:ILE:N	2.53	0.41
3:N:47:GLU:O	3:N:51:GLY:CA	2.68	0.41
3:N:131:LYS:HE3	3:N:568:ARG:HH11	1.51	0.41
3:N:184:GLU:OE1	3:N:202:VAL:HG22	2.21	0.41
3:N:407:VAL:HG13	3:N:408:GLU:N	2.36	0.41
3:N:441:ARG:CD	3:N:445:ARG:HH22	2.34	0.41
3:N:586:ARG:HA	3:N:586:ARG:HD3	1.94	0.41
3:N:656:PHE:HB3	3:N:694:VAL:CG1	2.50	0.41
3:N:681:ARG:HG3	3:N:682:ASP:H	1.84	0.41
3:N:887:ALA:HB1	3:N:893:GLU:HG3	2.01	0.41
3:N:970:LYS:HA	3:N:973:GLN:HE21	1.86	0.41
3:N:1126:ASP:OD1	3:N:1129:THR:CA	2.69	0.41
3:N:1141:GLU:CG	3:N:1168:MET:HE1	2.51	0.41
3:N:1147:ARG:HH22	3:N:1369:GLU:CD	2.28	0.41
3:N:1312:LEU:HD23	3:N:1312:LEU:HA	1.86	0.41
3:N:1468:LEU:HD13	3:N:1470:ARG:CD	2.50	0.41
4:O:86:GLN:H	4:O:86:GLN:HG2	1.53	0.41
7:X:105:VAL:O	7:X:121:ASP:N	2.54	0.41
7:X:137:VAL:C	7:X:138:LEU:HD23	2.46	0.41
7:Y:15:LEU:HB2	7:Y:69:LEU:HD21	2.03	0.41
7:Y:83:ILE:HD13	7:Y:129:LEU:HD22	2.03	0.41
1:A:65:PHE:CD1	1:A:65:PHE:N	2.89	0.41
1:A:218:LEU:HD23	1:B:222:LEU:HD11	2.03	0.41
1:A:229:GLN:HE21	1:A:229:GLN:HB2	1.58	0.41
2:C:42:VAL:O	2:C:43:GLY:O	2.39	0.41
2:C:182:VAL:HB	2:C:193:LEU:HB2	2.03	0.41
2:C:341:THR:HG23	2:C:342:ASP:N	2.35	0.41
2:C:397:GLU:O	2:C:398:THR:C	2.63	0.41
2:C:487:THR:O	2:C:488:ALA:C	2.64	0.41
2:C:793:PRO:O	2:C:794:PRO:C	2.64	0.41
2:C:969:GLN:HE21	2:C:969:GLN:HB3	1.48	0.41
2:C:1046:ALA:HB1	3:D:1471:LEU:HD11	2.03	0.41
3:D:510:GLU:CD	3:D:510:GLU:H	2.29	0.41
3:D:907:GLU:O	3:D:911:LEU:HD12	2.21	0.41
3:D:1254:GLN:CA	3:D:1258:ARG:HB2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.80	0.41
1:F:185:ARG:NH2	1:F:194:LYS:HZ1	2.20	0.41
1:G:98:THR:HG22	1:G:100:LEU:HD21	2.03	0.41
1:G:188:GLN:CG	3:I:685:ASP:CG	2.94	0.41
2:H:139:GLN:O	2:H:333:ILE:HA	2.21	0.41
2:H:208:ALA:CB	2:H:222:MET:SD	3.09	0.41
2:H:341:THR:HG23	2:H:342:ASP:N	2.35	0.41
2:H:480:THR:HG22	2:H:481:ASP:H	1.86	0.41
2:H:577:PRO:HG3	2:H:993:PHE:CD1	2.56	0.41
2:H:928:LYS:HD2	2:H:928:LYS:HA	1.83	0.41
3:I:795:VAL:CG2	3:I:879:ARG:HH12	2.34	0.41
3:I:1107:VAL:HG11	3:I:1217:ILE:HA	2.01	0.41
3:I:1209:LEU:O	3:I:1211:MET:O	2.39	0.41
3:I:1255:GLY:O	3:I:1256:LEU:C	2.63	0.41
3:I:1428:ALA:O	3:I:1429:LEU:C	2.64	0.41
3:I:1462:LEU:CD2	3:I:1472:ILE:HG22	2.46	0.41
4:J:26:ARG:NH2	4:J:67:GLU:OE2	2.54	0.41
1:K:83:LYS:HZ3	1:K:168:ASP:HB2	1.85	0.41
1:K:122:ILE:N	1:K:122:ILE:HD12	2.36	0.41
1:K:175:ARG:HH22	2:M:697:ARG:HH22	1.67	0.41
1:L:117:VAL:HG12	1:L:118:ALA:N	2.36	0.41
2:M:84:ARG:CZ	2:M:133:ASP:CG	2.86	0.41
2:M:140:ILE:HD12	2:M:140:ILE:C	2.45	0.41
2:M:159:ILE:O	2:M:159:ILE:HD12	2.21	0.41
2:M:471:TYR:OH	2:M:491:GLU:CD	2.64	0.41
2:M:1004:LYS:HD3	2:M:1004:LYS:HA	1.93	0.41
3:N:198:ARG:O	3:N:199:LEU:HB2	2.20	0.41
3:N:361:VAL:HG23	3:N:383:GLY:O	2.21	0.41
3:N:845:ASN:O	3:N:848:GLU:HB2	2.20	0.41
3:N:911:LEU:O	3:N:912:LYS:C	2.64	0.41
3:N:983:LEU:N	3:N:983:LEU:CD2	2.82	0.41
3:N:996:TRP:O	3:N:997:THR:C	2.64	0.41
4:O:3:GLU:O	4:O:6:ILE:HG22	2.21	0.41
7:Z:102:VAL:CG1	7:Z:125:MET:HE1	2.34	0.41
1:A:18:ARG:NH1	1:A:123:MET:CE	2.85	0.40
1:A:19:GLU:O	1:A:207:PRO:HG3	2.21	0.40
1:B:106:PRO:HG2	1:B:134:GLU:OE2	2.21	0.40
2:C:81:ASP:CA	2:C:84:ARG:NH1	2.84	0.40
2:C:104:ASP:O	2:C:105:THR:C	2.64	0.40
2:C:194:VAL:O	2:C:197:LEU:N	2.54	0.40
2:C:197:LEU:HD13	2:C:207:LEU:CD1	2.31	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:199:VAL:CG1	2:C:235:LEU:HG	2.51	0.40
2:C:358:ARG:HH22	2:C:373:VAL:C	2.28	0.40
2:C:418:LEU:N	2:C:418:LEU:CD1	2.84	0.40
2:C:572:ILE:H	2:C:572:ILE:HG13	1.66	0.40
2:C:575:GLN:HB2	2:C:670:GLN:HG2	2.03	0.40
2:C:676:ILE:HG21	2:C:988:VAL:CG1	2.42	0.40
2:C:742:VAL:CG1	2:C:743:VAL:N	2.83	0.40
3:D:54:LYS:HD2	3:D:55:ASP:N	2.30	0.40
3:D:165:LYS:HG2	2:H:213:ALA:HB1	2.03	0.40
3:D:376:GLU:O	3:D:377:VAL:C	2.65	0.40
3:D:592:THR:O	3:D:593:ASN:C	2.65	0.40
3:D:845:ASN:H	3:D:848:GLU:HG3	1.86	0.40
3:D:964:LEU:O	3:D:968:ASP:HB2	2.21	0.40
3:D:1313:VAL:HG21	3:D:1319:VAL:CG1	2.51	0.40
3:D:1440:PHE:O	3:D:1441:GLN:O	2.38	0.40
3:D:1491:THR:HA	3:D:1494:ALA:CB	2.52	0.40
1:F:223:THR:C	1:F:225:PHE:N	2.79	0.40
2:H:206:THR:O	2:H:209:ARG:HG2	2.21	0.40
2:H:242:LEU:O	2:H:243:ARG:HB2	2.21	0.40
2:H:265:ARG:CG	2:H:267:TYR:CD1	3.04	0.40
2:H:333:ILE:HG12	2:H:410:ILE:HD11	2.03	0.40
2:H:334:ARG:HB3	2:H:338:GLU:CD	2.46	0.40
2:H:752:GLY:H	2:H:792:VAL:HB	1.85	0.40
2:H:1056:LYS:HB3	3:I:624:ASP:H	1.85	0.40
2:H:1093:GLN:C	2:H:1095:LEU:N	2.78	0.40
3:I:116:LEU:CD1	3:I:461:ILE:HG23	2.51	0.40
3:I:135:LEU:HD22	3:I:148:GLU:O	2.22	0.40
3:I:169:TYR:HA	3:I:170:PRO:HD3	1.90	0.40
3:I:187:LYS:HG3	3:I:198:ARG:C	2.45	0.40
3:I:199:LEU:HD23	3:I:200:ASP:O	2.21	0.40
3:I:522:PRO:C	3:I:524:LEU:H	2.28	0.40
3:I:522:PRO:C	3:I:524:LEU:N	2.77	0.40
3:I:632:VAL:CG2	3:I:725:SER:CB	2.99	0.40
3:I:845:ASN:H	3:I:848:GLU:HG3	1.86	0.40
3:I:980:MET:HA	7:Y:142:THR:HG23	2.02	0.40
3:I:1313:VAL:HG21	3:I:1319:VAL:CG1	2.51	0.40
3:I:1374:GLN:OE1	3:I:1374:GLN:HA	2.22	0.40
1:K:42:ARG:CZ	2:M:857:ASP:HB3	2.51	0.40
2:M:20:GLU:OE2	2:M:460:ARG:HD3	2.21	0.40
2:M:141:HIS:O	2:M:331:ARG:HG2	2.21	0.40
2:M:207:LEU:HD22	2:M:221:LEU:HD13	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:305:PRO:CA	2:M:308:ARG:HB3	2.38	0.40
2:M:583:LEU:HD12	2:M:583:LEU:N	2.34	0.40
2:M:610:ARG:HH11	2:M:610:ARG:HG3	1.86	0.40
2:M:679:PHE:C	3:N:943:THR:HG21	2.46	0.40
2:M:794:PRO:CD	2:M:1025:ALA:HA	2.51	0.40
2:M:851:LYS:HG2	2:M:853:LEU:CD1	2.50	0.40
3:N:134:VAL:HB	3:N:135:LEU:H	1.72	0.40
3:N:160:GLU:HB3	3:N:161:LEU:H	1.75	0.40
3:N:361:VAL:HG12	3:N:379:ALA:HB1	2.03	0.40
3:N:389:GLU:N	3:N:390:PRO:CD	2.84	0.40
3:N:481:MET:SD	3:N:1388:ARG:HD3	2.61	0.40
3:N:620:GLY:O	3:N:621:LYS:HG2	2.20	0.40
3:N:638:LYS:C	3:N:640:HIS:H	2.28	0.40
3:N:642:CYS:HB3	3:N:716:PHE:HB3	2.00	0.40
3:N:783:ARG:HE	3:N:1029:ARG:HG2	1.86	0.40
3:N:820:GLU:HB2	3:N:836:VAL:HG21	2.03	0.40
3:N:964:LEU:O	3:N:968:ASP:HB2	2.21	0.40
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	2.03	0.40
3:N:1341:PRO:C	3:N:1343:ALA:N	2.77	0.40
5:T:18:DC:C2'	5:T:19:DC:C5'	2.96	0.40
7:Y:56:ALA:HA	7:Y:59:GLU:OE1	2.22	0.40
1:A:11:PHE:CD2	1:B:225:PHE:O	2.74	0.40
1:A:92:PRO:C	1:A:94:LEU:H	2.28	0.40
1:B:91:ASN:HB2	1:B:92:PRO:HD2	2.02	0.40
2:C:54:ILE:HD11	2:C:356:ARG:CG	2.51	0.40
2:C:64:LEU:HD22	2:C:359:MET:HG2	2.04	0.40
2:C:159:ILE:HD12	2:C:159:ILE:C	2.46	0.40
2:C:539:VAL:O	2:C:539:VAL:HG12	2.19	0.40
2:C:573:ARG:HB3	2:C:670:GLN:NE2	2.36	0.40
2:C:591:SER:O	2:C:592:LEU:HB2	2.21	0.40
2:C:679:PHE:CZ	2:C:853:LEU:HD21	2.55	0.40
2:C:685:GLU:CD	7:X:41:ASP:HA	2.47	0.40
2:C:897:LEU:CD2	2:C:921:ALA:HA	2.49	0.40
2:C:979:THR:HG23	2:C:981:GLU:N	2.23	0.40
2:C:983:ILE:O	2:C:984:GLU:C	2.64	0.40
3:D:134:VAL:CG2	3:D:460:ALA:HB2	2.35	0.40
3:D:166:GLN:CB	2:H:210:GLU:HG3	2.42	0.40
3:D:1095:THR:O	3:D:1099:VAL:CG2	2.67	0.40
3:D:1169:ASP:O	3:D:1172:HIS:HB2	2.21	0.40
3:D:1277:ILE:N	3:D:1277:ILE:CD1	2.85	0.40
3:D:1287:GLU:C	3:D:1289:LYS:N	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:39:PRO:HG3	1:G:39:PRO:HG3	2.03	0.40
1:F:45:LEU:HD11	1:F:177:VAL:CG2	2.51	0.40
1:G:72:LYS:HB3	1:G:131:THR:OG1	2.21	0.40
1:G:91:ASN:HB2	1:G:92:PRO:HD2	2.02	0.40
1:G:184:THR:O	1:G:192:LEU:HB2	2.21	0.40
2:H:84:ARG:HG3	2:H:84:ARG:NH1	2.35	0.40
2:H:206:THR:HG23	2:H:207:LEU:H	1.86	0.40
2:H:265:ARG:O	2:H:288:ARG:HG2	2.21	0.40
2:H:311:PHE:N	2:H:311:PHE:HD2	2.18	0.40
2:H:575:GLN:HB2	2:H:670:GLN:HG2	2.03	0.40
2:H:1090:LYS:HA	2:H:1093:GLN:CG	2.47	0.40
2:H:1090:LYS:HA	2:H:1090:LYS:HD3	1.89	0.40
3:I:32:ILE:HG23	3:I:33:ASN:N	2.36	0.40
3:I:119:SER:H	3:I:123:LEU:HD22	1.87	0.40
3:I:549:ASN:HD22	3:I:549:ASN:HA	1.56	0.40
3:I:907:GLU:O	3:I:911:LEU:HD12	2.21	0.40
3:I:970:LYS:HA	3:I:973:GLN:HE21	1.86	0.40
3:I:995:LEU:O	3:I:999:THR:HB	2.22	0.40
3:I:1052:THR:CG2	7:Y:57:ARG:HH11	2.34	0.40
3:I:1225:ALA:HB2	3:I:1370:ILE:CD1	2.52	0.40
3:I:1273:VAL:O	3:I:1273:VAL:CG2	2.69	0.40
3:I:1403:LEU:O	3:I:1407:LEU:HD13	2.20	0.40
1:K:92:PRO:C	1:K:94:LEU:H	2.28	0.40
1:K:111:ALA:HA	1:K:129:ILE:HD11	2.02	0.40
1:K:121:GLU:HG2	1:K:122:ILE:N	2.36	0.40
1:K:218:LEU:CD2	1:L:222:LEU:HD21	2.51	0.40
1:L:48:ILE:HG21	1:L:173:PRO:HD2	2.03	0.40
2:M:141:HIS:CD2	2:M:141:HIS:N	2.89	0.40
2:M:346:VAL:O	2:M:350:ARG:HG3	2.21	0.40
2:M:544:THR:C	2:M:546:LEU:N	2.79	0.40
2:M:575:GLN:HB2	2:M:670:GLN:HG2	2.04	0.40
2:M:604:ALA:HB3	2:M:612:VAL:O	2.21	0.40
2:M:678:PRO:O	3:N:943:THR:HA	2.22	0.40
2:M:681:GLY:HA3	3:N:635:PRO:HB3	2.03	0.40
2:M:918:LEU:HD23	2:M:968:LEU:HA	2.02	0.40
2:M:1063:ARG:HD2	2:M:1063:ARG:C	2.46	0.40
3:N:124:GLU:O	3:N:125:GLN:C	2.64	0.40
3:N:481:MET:HE2	3:N:493:ARG:HB2	2.02	0.40
3:N:624:ASP:O	3:N:625:TYR:HB2	2.22	0.40
3:N:1151:ARG:HA	3:N:1162:GLU:HG3	2.03	0.40
3:N:1286:THR:O	3:N:1287:GLU:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:37:ASN:N	4:O:37:ASN:ND2	2.69	0.40
7:Y:123:SER:O	7:Y:126:GLY:N	2.54	0.40
7:Y:152:VAL:O	7:Y:153:ALA:HB2	2.21	0.40
7:Z:152:VAL:O	7:Z:153:ALA:HB2	2.21	0.40
1:A:121:GLU:HG2	1:A:122:ILE:N	2.36	0.40
1:A:223:THR:C	1:A:225:PHE:N	2.79	0.40
1:B:56:VAL:HG21	1:B:82:LEU:HD12	2.03	0.40
1:B:99:LEU:HB2	1:B:142:VAL:HG23	2.03	0.40
2:C:103:LYS:H	2:C:103:LYS:HG2	1.70	0.40
2:C:140:ILE:CG2	2:C:410:ILE:HG21	2.50	0.40
2:C:191:PHE:CE2	2:C:192:PRO:O	2.74	0.40
2:C:541:SER:O	2:C:545:ASN:HB2	2.21	0.40
2:C:626:ARG:HB2	2:C:639:GLN:HE21	1.86	0.40
2:C:817:PRO:C	2:C:819:VAL:H	2.29	0.40
3:D:29:PRO:HD3	3:D:548:ILE:CG2	2.50	0.40
3:D:36:THR:C	3:D:38:LYS:H	2.24	0.40
3:D:483:HIS:CB	3:D:484:PRO:HD3	2.37	0.40
3:D:793:THR:O	3:D:879:ARG:NH1	2.54	0.40
3:D:1084:THR:HA	3:D:1087:ARG:HH11	1.85	0.40
3:D:1096:ARG:NE	3:D:1100:ASP:OD2	2.54	0.40
1:F:165:ILE:HA	1:F:166:PRO:HD3	1.90	0.40
1:F:206:THR:HG22	1:F:209:GLU:HG2	2.03	0.40
1:G:88:ARG:HD2	1:G:123:MET:CE	2.51	0.40
1:G:99:LEU:HB2	1:G:142:VAL:HG23	2.02	0.40
2:H:302:VAL:C	2:H:305:PRO:HD2	2.46	0.40
2:H:414:GLY:O	2:H:416:GLY:N	2.55	0.40
2:H:473:ARG:HA	2:H:531:PHE:CE1	2.56	0.40
2:H:494:TYR:CD1	2:H:494:TYR:N	2.89	0.40
2:H:500:ASN:OD1	3:I:1067:VAL:HG23	2.21	0.40
2:H:568:ALA:HB1	2:H:668:LEU:HB3	2.02	0.40
2:H:625:LEU:HD11	2:H:641:PRO:HG3	2.03	0.40
2:H:716:LYS:HE2	2:H:716:LYS:HB3	1.95	0.40
2:H:817:PRO:C	2:H:819:VAL:H	2.29	0.40
2:H:983:ILE:O	2:H:984:GLU:C	2.64	0.40
3:I:467:GLU:O	3:I:468:LEU:C	2.62	0.40
3:I:632:VAL:O	3:I:727:GLN:HA	2.22	0.40
3:I:1280:VAL:HG22	3:I:1295:GLU:O	2.22	0.40
3:I:1468:LEU:HD22	3:I:1470:ARG:HD3	2.03	0.40
4:J:54:LEU:CD2	4:J:58:PRO:CG	2.99	0.40
1:K:30:ARG:HG2	1:K:30:ARG:NH1	2.36	0.40
1:K:30:ARG:HD3	1:K:30:ARG:C	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:10:ARG:HD3	2:M:10:ARG:HA	1.84	0.40
2:M:835:VAL:HG13	2:M:836:GLY:N	2.36	0.40
2:M:1047:HIS:CD2	2:M:1047:HIS:N	2.88	0.40
3:N:160:GLU:HG2	3:N:165:LYS:CB	2.51	0.40
3:N:845:ASN:H	3:N:848:GLU:HG3	1.86	0.40
3:N:907:GLU:O	3:N:911:LEU:HD12	2.21	0.40
3:N:995:LEU:O	3:N:999:THR:HB	2.22	0.40
3:N:1120:VAL:CG2	3:N:1188:VAL:HG11	2.51	0.40
3:N:1145:TYR:O	3:N:1146:GLY:C	2.65	0.40
4:O:68:LEU:HD12	4:O:73:LEU:HD13	2.04	0.40
7:X:102:VAL:CG1	7:X:103:GLN:N	2.83	0.40
7:X:132:HIS:NE2	7:X:138:LEU:HD22	2.36	0.40
1:B:13:VAL:HG13	1:B:23:PHE:CE1	2.57	0.40
1:B:34:VAL:HG23	1:B:181:VAL:HG21	2.03	0.40
1:B:52:ALA:HB1	1:B:170:VAL:N	2.36	0.40
1:B:73:GLU:HB2	1:B:78:ILE:CG1	2.50	0.40
2:C:45:GLN:O	2:C:45:GLN:HG2	2.21	0.40
2:C:69:LEU:HB2	2:C:97:ARG:O	2.21	0.40
2:C:78:PHE:HB3	2:C:79:PRO:HD2	2.02	0.40
2:C:141:HIS:HB3	2:C:418:LEU:HB3	2.03	0.40
2:C:266:ARG:O	2:C:266:ARG:CD	2.63	0.40
2:C:327:HIS:C	2:C:329:GLY:H	2.30	0.40
2:C:572:ILE:HG13	2:C:701:THR:O	2.20	0.40
2:C:931:GLY:C	2:C:933:GLY:H	2.28	0.40
2:C:1031:ARG:HG2	2:C:1033:GLY:H	1.86	0.40
2:C:1040:LEU:HD23	2:C:1049:LEU:HA	2.03	0.40
2:C:1085:PHE:CD2	3:D:1468:LEU:HA	2.57	0.40
2:C:1093:GLN:OE1	3:D:21:TRP:CE3	2.75	0.40
3:D:524:LEU:HD12	3:D:524:LEU:N	2.36	0.40
3:D:639:LEU:HD12	3:D:640:HIS:H	1.85	0.40
3:D:749:VAL:HA	3:D:750:PRO:HD3	1.71	0.40
3:D:995:LEU:O	3:D:999:THR:HB	2.22	0.40
3:D:1031:ASN:O	3:D:1032:PRO:C	2.65	0.40
3:D:1065:LEU:HD23	3:D:1070:TYR:CD2	2.56	0.40
3:D:1122:LEU:CD1	3:D:1185:GLU:HA	2.45	0.40
4:E:43:GLU:O	4:E:44:GLU:CB	2.68	0.40
4:E:53:GLY:C	4:E:55:PHE:H	2.28	0.40
1:F:18:ARG:NH1	1:F:123:MET:HE1	2.37	0.40
1:F:65:PHE:CD1	1:F:65:PHE:N	2.89	0.40
1:F:117:VAL:CG1	1:F:120:VAL:HG12	2.52	0.40
1:F:121:GLU:HG2	1:F:122:ILE:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:86:VAL:CG1	1:G:124:ASN:HB2	2.51	0.40
1:G:172:SER:C	1:G:174:VAL:H	2.27	0.40
2:H:90:TYR:O	2:H:90:TYR:CD1	2.74	0.40
2:H:251:ASP:C	2:H:253:ALA:N	2.79	0.40
2:H:309:TYR:CD1	2:H:313:LEU:CD1	2.97	0.40
2:H:338:GLU:HA	2:H:341:THR:CG2	2.52	0.40
2:H:446:GLY:O	2:H:447:ALA:C	2.65	0.40
2:H:739:GLU:OE1	2:H:742:VAL:HB	2.22	0.40
2:H:897:LEU:CD2	2:H:921:ALA:HA	2.49	0.40
3:I:497:GLU:O	3:I:500:ARG:HB3	2.21	0.40
3:I:584:ASN:OD1	3:I:590:PRO:HG2	2.21	0.40
3:I:866:VAL:HG11	3:I:880:ILE:HD11	2.04	0.40
3:I:1047:LYS:CB	3:I:1048:PRO:CD	2.94	0.40
3:I:1065:LEU:HD23	3:I:1070:TYR:CD2	2.57	0.40
3:I:1105:ILE:HD11	3:I:1374:GLN:NE2	2.37	0.40
3:I:1331:ASP:HA	3:I:1332:PRO:HD3	1.90	0.40
1:K:35:THR:O	1:K:39:PRO:HG2	2.22	0.40
1:L:32:PHE:O	1:L:33:GLY:C	2.64	0.40
2:M:52:PHE:CD1	2:M:52:PHE:C	2.99	0.40
2:M:295:ASP:O	2:M:297:GLU:N	2.50	0.40
2:M:328:LEU:HD13	2:M:433:THR:CB	2.27	0.40
2:M:399:ASN:HD22	2:M:668:LEU:HD23	1.86	0.40
2:M:455:LEU:CD1	2:M:455:LEU:C	2.95	0.40
2:M:477:GLY:O	2:M:507:ARG:HA	2.21	0.40
2:M:678:PRO:HG2	3:N:947:ILE:CD1	2.45	0.40
2:M:874:LEU:O	3:N:1029:ARG:HD3	2.22	0.40
3:N:447:VAL:HG22	3:N:447:VAL:H	1.53	0.40
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.56	0.40
3:N:729:HIS:HB3	3:N:732:VAL:CG2	2.51	0.40
3:N:1225:ALA:HB2	3:N:1370:ILE:CD1	2.52	0.40
3:N:1293:PHE:CE1	3:N:1302:GLU:HA	2.57	0.40
3:N:1428:ALA:O	3:N:1429:LEU:C	2.64	0.40
7:Z:20:GLU:O	7:Z:23:ARG:HB2	2.21	0.40
7:Z:123:SER:O	7:Z:126:GLY:N	2.54	0.40
1:A:122:ILE:N	1:A:122:ILE:HD12	2.36	0.40
2:C:99:GLN:NE2	2:C:101:ILE:HD11	2.36	0.40
2:C:127:PHE:O	2:C:133:ASP:HA	2.20	0.40
2:C:250:ARG:H	2:C:250:ARG:HG2	1.33	0.40
2:C:363:SER:O	2:C:366:SER:HB2	2.22	0.40
2:C:395:LYS:O	2:C:397:GLU:HG3	2.21	0.40
2:C:544:THR:C	2:C:546:LEU:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:554:ASP:HA	3:D:1061:PHE:CZ	2.57	0.40
2:C:739:GLU:OE1	2:C:742:VAL:HB	2.22	0.40
2:C:882:LEU:O	2:C:883:GLY:C	2.63	0.40
3:D:138:LYS:O	3:D:138:LYS:HG2	2.21	0.40
3:D:704:ARG:HH12	3:D:743:ASP:CB	2.35	0.40
3:D:843:PHE:CD2	3:D:849:ALA:HA	2.57	0.40
3:D:845:ASN:O	3:D:848:GLU:HB2	2.20	0.40
3:D:1112:CYS:CB	3:D:1201:CYS:SG	3.09	0.40
3:D:1442:ASN:O	3:D:1446:VAL:HG23	2.21	0.40
3:D:1476:THR:O	3:D:1476:THR:CG2	2.69	0.40
1:F:122:ILE:N	1:F:122:ILE:HD12	2.36	0.40
1:G:65:PHE:CD1	1:G:65:PHE:N	2.89	0.40
1:G:143:ARG:NH1	1:G:158:ILE:HG23	2.37	0.40
2:H:31:GLN:HE22	2:H:39:ARG:CB	2.35	0.40
2:H:102:HIS:C	2:H:104:ASP:N	2.79	0.40
2:H:165:LEU:CD2	2:H:418:LEU:HG	2.51	0.40
2:H:441:VAL:HG12	2:H:559:LEU:CA	2.51	0.40
2:H:539:VAL:O	2:H:539:VAL:HG12	2.19	0.40
2:H:816:LYS:HB2	2:H:819:VAL:HG21	2.04	0.40
2:H:1035:MET:HB3	2:H:1036:GLU:OE1	2.21	0.40
2:H:1046:ALA:HB2	3:I:1476:THR:HB	2.04	0.40
3:I:138:LYS:N	3:I:138:LYS:CD	2.85	0.40
3:I:697:GLY:C	4:J:59:ASN:ND2	2.78	0.40
3:I:704:ARG:HH12	3:I:743:ASP:CB	2.35	0.40
3:I:729:HIS:HB3	3:I:732:VAL:CG2	2.51	0.40
3:I:1042:ARG:NH1	3:I:1042:ARG:HB2	2.36	0.40
3:I:1061:PHE:CE1	3:I:1065:LEU:HD22	2.41	0.40
3:I:1305:LEU:HD12	3:I:1311:LEU:CD2	2.31	0.40
1:K:11:PHE:CB	1:K:25:LEU:HD13	2.48	0.40
1:L:56:VAL:HG12	1:L:58:ILE:CD1	2.51	0.40
1:L:73:GLU:OE1	1:L:131:THR:N	2.54	0.40
2:M:199:VAL:CG1	2:M:235:LEU:HD12	2.51	0.40
2:M:202:TYR:CZ	2:M:304:LEU:CD2	3.04	0.40
2:M:348:LEU:HD12	2:M:348:LEU:HA	1.89	0.40
3:N:134:VAL:HG23	3:N:455:ARG:H	1.86	0.40
3:N:211:VAL:O	3:N:212:ARG:C	2.61	0.40
3:N:447:VAL:O	3:N:449:SER:N	2.54	0.40
3:N:827:ILE:C	3:N:828:LYS:HG3	2.44	0.40
3:N:1042:ARG:NH1	3:N:1042:ARG:HB2	2.36	0.40
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	2.21	0.40

All (10) 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:100:LEU:CD1	1:F:59:GLU:OE1[2_455]	1.51	0.69
3:D:1182:GLU:OE2	1:G:112:ARG:NE[1_655]	1.61	0.59
1:B:162:ILE:CG1	3:N:976:GLN:NE2[1_655]	1.90	0.30
1:A:100:LEU:CD1	1:F:59:GLU:CD[2_455]	1.97	0.23
2:C:223:ASP:O	3:N:562:ALA:O[2_444]	2.02	0.18
3:D:1182:GLU:OE2	1:G:112:ARG:CD[1_655]	2.05	0.15
3:I:159:ARG:NH1	2:M:218:VAL:CG1[2_445]	2.06	0.14
3:D:1181:GLY:O	1:G:112:ARG:O[1_655]	2.14	0.06
1:B:162:ILE:CD1	3:N:976:GLN:NE2[1_655]	2.17	0.03
1:A:115:LEU:CD2	1:F:161:ARG:CD[2_455]	2.18	0.02

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	221/315 (70%)	191 (86%)	22 (10%)	8 (4%)	2	20
1	B	221/315 (70%)	191 (86%)	27 (12%)	3 (1%)	9	39
1	F	221/315 (70%)	191 (86%)	20 (9%)	10 (4%)	2	17
1	G	222/315 (70%)	193 (87%)	26 (12%)	3 (1%)	9	39
1	K	223/315 (71%)	193 (86%)	21 (9%)	9 (4%)	2	18
1	L	221/315 (70%)	188 (85%)	28 (13%)	5 (2%)	5	28
2	C	1077/1119 (96%)	864 (80%)	150 (14%)	63 (6%)	1	14
2	H	1074/1119 (96%)	867 (81%)	145 (14%)	62 (6%)	1	14
2	M	1078/1119 (96%)	871 (81%)	149 (14%)	58 (5%)	1	15
3	D	1306/1524 (86%)	1062 (81%)	186 (14%)	58 (4%)	2	17
3	I	1252/1524 (82%)	1012 (81%)	177 (14%)	63 (5%)	1	16
3	N	1317/1524 (86%)	1052 (80%)	196 (15%)	69 (5%)	1	15
4	E	91/99 (92%)	67 (74%)	17 (19%)	7 (8%)	1	10

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	J	91/99 (92%)	70 (77%)	14 (15%)	7 (8%)	1	10
4	O	91/99 (92%)	68 (75%)	16 (18%)	7 (8%)	1	10
7	X	152/156 (97%)	132 (87%)	16 (10%)	4 (3%)	4	25
7	Y	150/156 (96%)	135 (90%)	12 (8%)	3 (2%)	6	31
7	Z	150/156 (96%)	131 (87%)	16 (11%)	3 (2%)	6	31
All	All	9158/10584 (86%)	7478 (82%)	1238 (14%)	442 (5%)	2	16

All (442) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	187	GLY
2	C	23	VAL
2	C	40	GLU
2	C	44	ILE
2	C	152	PRO
2	C	164	PRO
2	C	231	PRO
2	C	250	ARG
2	C	253	ALA
2	C	264	PRO
2	C	364	GLU
2	C	808	ARG
2	C	809	GLY
2	C	864	GLY
2	C	905	ILE
2	C	1033	GLY
2	C	1106	ASP
3	D	136	ASP
3	D	594	PRO
3	D	683	ILE
3	D	696	HIS
3	D	705	ALA
3	D	832	ARG
3	D	1028	ALA
3	D	1125	PRO
3	D	1129	THR
3	D	1287	GLU
3	D	1432	LYS
3	D	1441	GLN
4	E	42	PRO

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Mol	Chain	Res	Type
4	E	58	PRO
1	G	187	GLY
2	H	40	GLU
2	H	44	ILE
2	H	105	THR
2	H	152	PRO
2	H	181	VAL
2	H	231	PRO
2	H	243	ARG
2	H	250	ARG
2	H	253	ALA
2	H	364	GLU
2	H	727	PRO
2	H	808	ARG
2	H	809	GLY
2	H	864	GLY
2	H	905	ILE
2	H	1106	ASP
3	I	120	ALA
3	I	137	PRO
3	I	448	GLU
3	I	539	ASP
3	I	594	PRO
3	I	696	HIS
3	I	705	ALA
3	I	832	ARG
3	I	1028	ALA
3	I	1125	PRO
3	I	1287	GLU
3	I	1441	GLN
3	I	1454	GLY
4	J	42	PRO
1	L	187	GLY
2	M	50	GLU
2	M	152	PRO
2	M	179	ASN
2	M	181	VAL
2	M	231	PRO
2	M	244	PRO
2	M	250	ARG
2	M	253	ALA
2	M	364	GLU

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Mol	Chain	Res	Type
2	M	808	ARG
2	M	809	GLY
2	M	864	GLY
2	M	905	ILE
2	M	1055	LEU
2	M	1106	ASP
3	N	120	ALA
3	N	137	PRO
3	N	151	GLN
3	N	192	ALA
3	N	539	ASP
3	N	594	PRO
3	N	665	GLY
3	N	696	HIS
3	N	705	ALA
3	N	832	ARG
3	N	1028	ALA
3	N	1125	PRO
3	N	1287	GLU
3	N	1441	GLN
4	O	42	PRO
1	A	9	PRO
1	A	111	ALA
2	C	10	ARG
2	C	43	GLY
2	C	105	THR
2	C	129	ILE
2	C	156	GLY
2	C	213	ALA
2	C	218	VAL
2	C	252	LYS
2	C	278	GLU
2	C	290	LEU
2	C	396	ASP
2	C	450	GLY
2	C	466	PHE
2	C	684	PHE
2	C	740	GLU
2	C	908	GLY
2	C	998	TYR
2	C	1055	LEU
3	D	31	THR

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Mol	Chain	Res	Type
3	D	458	ALA
3	D	639	LEU
3	D	665	GLY
3	D	737	ASN
3	D	803	GLY
3	D	808	THR
3	D	844	ALA
3	D	1111	ASP
3	D	1454	GLY
4	E	82	GLU
1	F	111	ALA
2	H	10	ARG
2	H	23	VAL
2	H	43	GLY
2	H	129	ILE
2	H	156	GLY
2	H	213	ALA
2	H	283	ILE
2	H	290	LEU
2	H	684	PHE
2	H	740	GLU
2	H	908	GLY
2	H	998	TYR
2	H	1033	GLY
2	H	1055	LEU
3	I	119	SER
3	I	151	GLN
3	I	458	ALA
3	I	639	LEU
3	I	665	GLY
3	I	737	ASN
3	I	844	ALA
3	I	1111	ASP
3	I	1129	THR
3	I	1208	ASP
3	I	1432	LYS
4	J	46	PRO
4	J	58	PRO
4	J	82	GLU
1	K	9	PRO
1	K	111	ALA
2	M	156	GLY

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Mol	Chain	Res	Type
2	M	164	PRO
2	M	262	ALA
2	M	278	GLU
2	M	450	GLY
2	M	466	PHE
2	M	684	PHE
2	M	727	PRO
2	M	740	GLU
2	M	908	GLY
2	M	998	TYR
2	M	1033	GLY
3	N	31	THR
3	N	119	SER
3	N	136	ASP
3	N	146	PRO
3	N	189	GLN
3	N	639	LEU
3	N	737	ASN
3	N	844	ALA
3	N	1111	ASP
3	N	1129	THR
3	N	1208	ASP
3	N	1252	ILE
3	N	1454	GLY
4	O	58	PRO
4	O	82	GLU
7	Y	47	GLY
7	Y	94	PRO
1	A	125	PRO
1	A	133	GLU
1	A	224	TYR
1	A	226	SER
1	B	125	PRO
2	C	50	GLU
2	C	80	GLN
2	C	277	ALA
2	C	517	ARG
2	C	545	ASN
2	C	727	PRO
2	C	859	PRO
3	D	96	ALA
3	D	98	PRO

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Mol	Chain	Res	Type
3	D	144	GLY
3	D	448	GLU
3	D	507	ASN
3	D	735	ALA
3	D	1085	ALA
3	D	1269	LYS
3	D	1410	GLU
3	D	1459	LEU
4	E	44	GLU
4	E	46	PRO
1	F	9	PRO
1	F	72	LYS
1	F	125	PRO
1	F	133	GLU
1	F	191	ASP
1	F	224	TYR
1	F	226	SER
2	H	50	GLU
2	H	80	GLN
2	H	164	PRO
2	H	179	ASN
2	H	252	LYS
2	H	261	ILE
2	H	278	GLU
2	H	396	ASP
2	H	466	PHE
2	H	517	ARG
2	H	545	ASN
2	H	859	PRO
2	H	1012	PRO
2	H	1046	ALA
3	I	96	ALA
3	I	98	PRO
3	I	117	ASP
3	I	136	ASP
3	I	144	GLY
3	I	146	PRO
3	I	507	ASN
3	I	735	ALA
3	I	807	ALA
3	I	808	THR
3	I	1269	LYS

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Mol	Chain	Res	Type
3	I	1306	PRO
3	I	1410	GLU
4	J	44	GLU
1	K	125	PRO
1	K	133	GLU
1	K	224	TYR
2	M	23	VAL
2	M	141	HIS
2	M	144	PRO
2	M	213	ALA
2	M	261	ILE
2	M	290	LEU
2	M	517	ARG
2	M	545	ASN
2	M	859	PRO
2	M	1012	PRO
3	N	96	ALA
3	N	98	PRO
3	N	117	ASP
3	N	140	ALA
3	N	142	LEU
3	N	143	ASN
3	N	382	GLU
3	N	392	SER
3	N	507	ASN
3	N	735	ALA
3	N	802	ALA
3	N	808	THR
3	N	1269	LYS
3	N	1286	THR
3	N	1298	GLY
3	N	1306	PRO
3	N	1410	GLU
3	N	1432	LYS
3	N	1489	GLN
4	O	44	GLU
4	O	46	PRO
7	X	47	GLY
7	X	94	PRO
7	Z	47	GLY
7	Z	94	PRO
1	A	72	LYS

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Mol	Chain	Res	Type
2	C	53	PRO
2	C	144	PRO
2	C	283	ILE
2	C	295	ASP
2	C	457	ALA
2	C	680	ASP
2	C	932	GLU
2	C	1012	PRO
3	D	356	PRO
3	D	409	VAL
3	D	802	ALA
3	D	822	ALA
3	D	1265	ALA
3	D	1296	SER
3	D	1298	GLY
3	D	1385	GLY
4	E	24	ALA
1	G	125	PRO
2	H	53	PRO
2	H	144	PRO
2	H	216	GLU
2	H	262	ALA
2	H	272	ALA
2	H	457	ALA
2	H	680	ASP
2	H	932	GLU
3	I	140	ALA
3	I	407	VAL
3	I	802	ALA
3	I	822	ALA
3	I	1265	ALA
3	I	1286	THR
3	I	1296	SER
3	I	1298	GLY
3	I	1385	GLY
4	J	24	ALA
1	K	30	ARG
1	K	72	LYS
1	K	226	SER
1	L	118	ALA
2	M	53	PRO
2	M	272	ALA

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Mol	Chain	Res	Type
2	M	283	ILE
2	M	424	GLY
2	M	457	ALA
2	M	680	ASP
2	M	932	GLU
3	N	160	GLU
3	N	409	VAL
3	N	549	ASN
3	N	822	ALA
3	N	1265	ALA
3	N	1296	SER
3	N	1385	GLY
4	O	24	ALA
7	Y	151	VAL
1	B	44	LEU
2	C	31	GLN
2	C	272	ALA
2	C	424	GLY
2	C	538	GLN
3	D	572	ARG
3	D	766	ALA
3	D	1197	ARG
3	D	1286	THR
3	D	1389	LEU
3	D	1489	GLN
4	E	16	LYS
1	F	30	ARG
2	H	31	GLN
2	H	424	GLY
2	H	538	GLN
3	I	483	HIS
3	I	512	MET
3	I	766	ALA
3	I	1085	ALA
3	I	1086	LEU
3	I	1197	ARG
1	L	125	PRO
2	M	10	ARG
2	M	207	LEU
2	M	216	GLU
2	M	232	GLU
2	M	252	LYS

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Mol	Chain	Res	Type
2	M	295	ASP
2	M	538	GLN
2	M	1046	ALA
3	N	356	PRO
3	N	483	HIS
3	N	766	ALA
3	N	1086	LEU
3	N	1197	ARG
2	C	21	ILE
2	C	181	VAL
2	C	261	ILE
2	C	263	ASP
2	C	627	ARG
2	C	1046	ALA
3	D	377	VAL
3	D	512	MET
3	D	1224	VAL
2	H	11	GLU
2	H	277	ALA
2	H	279	GLU
2	H	627	ARG
3	I	31	THR
3	I	580	ALA
3	I	1224	VAL
3	I	1412	LYS
3	I	1459	LEU
4	J	25	LYS
1	L	59	GLU
2	M	277	ALA
2	M	369	PRO
2	M	627	ARG
3	N	410	SER
3	N	512	MET
3	N	580	ALA
3	N	1478	SER
4	O	64	ALA
7	X	115	THR
7	Z	115	THR
3	D	1223	ILE
3	I	1027	GLY
3	I	1223	ILE
3	N	1223	ILE

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Mol	Chain	Res	Type
3	N	1224	VAL
7	X	151	VAL
2	C	369	PRO
2	C	548	PRO
3	D	1371	VAL
2	H	548	PRO
3	I	1371	VAL
2	M	548	PRO
3	N	1371	VAL
2	C	42	VAL
2	C	74	GLY
3	D	29	PRO
1	G	157	GLY
3	I	484	PRO
1	L	157	GLY
2	M	74	GLY
3	N	349	PRO
3	N	484	PRO
3	D	146	PRO
3	D	407	VAL
3	D	1027	GLY
3	D	1050	GLY
2	H	296	GLY
3	I	409	VAL
3	I	1050	GLY
3	N	407	VAL
3	N	1050	GLY
1	A	21	GLY
3	D	208	PRO
3	D	1306	PRO
1	F	21	GLY
2	H	369	PRO
1	K	21	GLY
2	M	368	THR

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	196/273 (72%)	166 (85%)	30 (15%)	3	13
1	B	196/273 (72%)	159 (81%)	37 (19%)	1	9
1	F	196/273 (72%)	171 (87%)	25 (13%)	4	17
1	G	196/273 (72%)	160 (82%)	36 (18%)	1	10
1	K	196/273 (72%)	164 (84%)	32 (16%)	2	12
1	L	196/273 (72%)	162 (83%)	34 (17%)	2	11
2	C	912/941 (97%)	718 (79%)	194 (21%)	1	6
2	H	909/941 (97%)	719 (79%)	190 (21%)	1	7
2	M	912/941 (97%)	722 (79%)	190 (21%)	1	7
3	D	1113/1279 (87%)	917 (82%)	196 (18%)	2	11
3	I	1068/1279 (84%)	868 (81%)	200 (19%)	1	10
3	N	1124/1279 (88%)	921 (82%)	203 (18%)	2	10
4	E	82/88 (93%)	71 (87%)	11 (13%)	4	16
4	J	82/88 (93%)	73 (89%)	9 (11%)	6	22
4	O	82/88 (93%)	65 (79%)	17 (21%)	1	7
7	X	130/131 (99%)	110 (85%)	20 (15%)	2	13
7	Y	128/131 (98%)	103 (80%)	25 (20%)	1	8
7	Z	128/131 (98%)	109 (85%)	19 (15%)	3	14
All	All	7846/8955 (88%)	6378 (81%)	1468 (19%)	1	10

All (1468) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	LYS
1	A	9	PRO
1	A	15	THR
1	A	16	GLN
1	A	20	TYR
1	A	22	GLU
1	A	26	GLU
1	A	30	ARG
1	A	47	SER
1	A	62	LEU
1	A	65	PHE
1	A	74	ASP
1	A	92	PRO
1	A	96	THR

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Mol	Chain	Res	Type
1	A	100	LEU
1	A	101	LEU
1	A	126	ASP
1	A	141	GLU
1	A	161	ARG
1	A	163	ASN
1	A	165	ILE
1	A	175	ARG
1	A	180	GLN
1	A	183	ASP
1	A	184	THR
1	A	186	LEU
1	A	189	ARG
1	A	206	THR
1	A	209	GLU
1	A	219	ARG
1	B	18	ARG
1	B	25	LEU
1	B	29	GLU
1	B	40	LEU
1	B	54	THR
1	B	58	ILE
1	B	62	LEU
1	B	65	PHE
1	B	66	SER
1	B	71	VAL
1	B	73	GLU
1	B	76	VAL
1	B	80	LEU
1	B	84	GLU
1	B	95	GLN
1	B	104	GLU
1	B	122	ILE
1	B	123	MET
1	B	138	LEU
1	B	141	GLU
1	B	145	ASP
1	B	159	LYS
1	B	162	ILE
1	B	165	ILE
1	B	167	VAL
1	B	176	ARG

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Mol	Chain	Res	Type
1	B	179	PHE
1	B	180	GLN
1	B	184	THR
1	B	185	ARG
1	B	186	LEU
1	B	197	LEU
1	B	198	ARG
1	B	201	THR
1	B	206	THR
1	B	216	GLU
1	B	227	ASN
2	C	3	ILE
2	C	6	PHE
2	C	12	VAL
2	C	21	ILE
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN
2	C	34	VAL
2	C	41	ASN
2	C	42	VAL
2	C	48	PHE
2	C	70	GLU
2	C	75	GLU
2	C	80	GLN
2	C	88	LEU
2	C	89	THR
2	C	94	LEU
2	C	95	TYR
2	C	98	LEU
2	C	105	THR
2	C	113	VAL
2	C	115	LEU
2	C	122	THR
2	C	124	ASP
2	C	133	ASP
2	C	136	ILE
2	C	137	VAL
2	C	138	SER
2	C	142	ARG
2	C	158	TYR
2	C	165	LEU

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Mol	Chain	Res	Type
2	C	181	VAL
2	C	182	VAL
2	C	184	MET
2	C	188	LYS
2	C	190	LYS
2	C	194	VAL
2	C	198	ARG
2	C	200	LEU
2	C	205	GLU
2	C	210	GLU
2	C	216	GLU
2	C	218	VAL
2	C	222	MET
2	C	224	GLU
2	C	229	MET
2	C	230	ARG
2	C	235	LEU
2	C	237	ARG
2	C	238	LEU
2	C	241	LEU
2	C	242	LEU
2	C	243	ARG
2	C	250	ARG
2	C	261	ILE
2	C	264	PRO
2	C	267	TYR
2	C	268	ASP
2	C	283	ILE
2	C	285	LEU
2	C	290	LEU
2	C	293	PHE
2	C	294	GLU
2	C	297	GLU
2	C	309	TYR
2	C	310	LEU
2	C	314	THR
2	C	321	GLU
2	C	325	ILE
2	C	328	LEU
2	C	343	GLN
2	C	345	ARG
2	C	348	LEU

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Mol	Chain	Res	Type
2	C	360	LEU
2	C	363	SER
2	C	368	THR
2	C	369	PRO
2	C	374	ASN
2	C	376	ARG
2	C	383	ARG
2	C	393	GLN
2	C	394	PHE
2	C	400	PRO
2	C	413	LEU
2	C	419	THR
2	C	430	VAL
2	C	433	THR
2	C	441	VAL
2	C	453	THR
2	C	455	LEU
2	C	462	ASP
2	C	474	VAL
2	C	480	THR
2	C	481	ASP
2	C	486	MET
2	C	498	GLN
2	C	500	ASN
2	C	503	LEU
2	C	518	LYS
2	C	523	ILE
2	C	533	ASP
2	C	545	ASN
2	C	547	ILE
2	C	548	PRO
2	C	557	ARG
2	C	559	LEU
2	C	572	ILE
2	C	579	VAL
2	C	584	GLU
2	C	603	VAL
2	C	609	ASN
2	C	614	ARG
2	C	620	LEU
2	C	621	VAL
2	C	631	SER

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Mol	Chain	Res	Type
2	C	635	THR
2	C	640	ARG
2	C	642	ARG
2	C	645	VAL
2	C	654	LEU
2	C	657	ASP
2	C	662	GLU
2	C	668	LEU
2	C	685	GLU
2	C	691	SER
2	C	695	LEU
2	C	699	PHE
2	C	704	HIS
2	C	714	ASP
2	C	722	ILE
2	C	725	ASP
2	C	727	PRO
2	C	728	HIS
2	C	729	LEU
2	C	738	ASP
2	C	740	GLU
2	C	754	ILE
2	C	759	THR
2	C	794	PRO
2	C	796	GLU
2	C	799	ILE
2	C	800	VAL
2	C	803	THR
2	C	805	ARG
2	C	807	ARG
2	C	815	LEU
2	C	829	GLN
2	C	839	LEU
2	C	856	GLU
2	C	863	ASP
2	C	869	VAL
2	C	870	ILE
2	C	881	ASN
2	C	884	GLN
2	C	900	ARG
2	C	904	PRO
2	C	918	LEU

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Mol	Chain	Res	Type
2	C	920	GLN
2	C	923	GLU
2	C	929	ARG
2	C	938	LYS
2	C	939	ARG
2	C	942	GLU
2	C	946	ARG
2	C	950	LEU
2	C	952	LEU
2	C	953	VAL
2	C	958	THR
2	C	963	LEU
2	C	969	GLN
2	C	975	TYR
2	C	981	GLU
2	C	988	VAL
2	C	989	VAL
2	C	995	MET
2	C	999	HIS
2	C	1001	VAL
2	C	1002	GLU
2	C	1004	LYS
2	C	1008	ARG
2	C	1010	THR
2	C	1012	PRO
2	C	1015	LEU
2	C	1016	ILE
2	C	1021	LEU
2	C	1026	GLN
2	C	1063	ARG
2	C	1076	VAL
2	C	1088	LEU
2	C	1092	LEU
2	C	1095	LEU
2	C	1097	LEU
2	C	1105	LYS
2	C	1111	ILE
3	D	21	TRP
3	D	37	LEU
3	D	41	ARG
3	D	47	GLU
3	D	52	PRO

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Mol	Chain	Res	Type
3	D	55	ASP
3	D	95	LEU
3	D	98	PRO
3	D	101	HIS
3	D	102	ILE
3	D	108	VAL
3	D	112	ILE
3	D	127	LEU
3	D	128	TYR
3	D	134	VAL
3	D	138	LYS
3	D	141	ILE
3	D	142	LEU
3	D	143	ASN
3	D	145	VAL
3	D	149	LYS
3	D	151	GLN
3	D	152	LEU
3	D	153	LEU
3	D	161	LEU
3	D	162	ARG
3	D	170	PRO
3	D	171	LEU
3	D	205	TYR
3	D	213	VAL
3	D	349	PRO
3	D	351	MET
3	D	361	VAL
3	D	387	LEU
3	D	392	SER
3	D	394	LEU
3	D	396	VAL
3	D	434	ARG
3	D	451	ASP
3	D	452	ILE
3	D	456	MET
3	D	465	LEU
3	D	469	ASP
3	D	470	LEU
3	D	471	GLU
3	D	486	ARG
3	D	489	ARG

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Mol	Chain	Res	Type
3	D	497	GLU
3	D	504	ASP
3	D	512	MET
3	D	539	ASP
3	D	546	ARG
3	D	549	ASN
3	D	581	LEU
3	D	594	PRO
3	D	624	ASP
3	D	631	ILE
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	652	LEU
3	D	660	LYS
3	D	670	VAL
3	D	677	LEU
3	D	681	ARG
3	D	688	TRP
3	D	701	LEU
3	D	709	HIS
3	D	710	ARG
3	D	734	GLU
3	D	747	VAL
3	D	749	VAL
3	D	764	LEU
3	D	765	SER
3	D	772	PRO
3	D	778	LEU
3	D	783	ARG
3	D	785	ILE
3	D	787	LEU
3	D	791	TYR
3	D	792	ILE
3	D	799	LYS
3	D	804	LEU
3	D	805	GLU
3	D	808	THR
3	D	810	GLU
3	D	817	GLU
3	D	828	LYS
3	D	832	ARG

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Mol	Chain	Res	Type
3	D	833	GLU
3	D	842	VAL
3	D	863	VAL
3	D	864	VAL
3	D	880	ILE
3	D	885	ILE
3	D	890	VAL
3	D	892	ASP
3	D	897	TRP
3	D	900	ILE
3	D	902	LEU
3	D	914	LEU
3	D	920	LEU
3	D	922	LEU
3	D	925	GLU
3	D	926	LYS
3	D	927	THR
3	D	944	THR
3	D	947	ILE
3	D	951	ILE
3	D	957	PRO
3	D	959	GLU
3	D	964	LEU
3	D	970	LYS
3	D	982	PHE
3	D	983	LEU
3	D	988	ARG
3	D	991	GLN
3	D	999	THR
3	D	1001	GLU
3	D	1029	ARG
3	D	1031	ASN
3	D	1032	PRO
3	D	1033	GLN
3	D	1041	LEU
3	D	1042	ARG
3	D	1062	ARG
3	D	1068	LEU
3	D	1078	ARG
3	D	1083	ASP
3	D	1087	ARG
3	D	1090	ASP

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Mol	Chain	Res	Type
3	D	1095	THR
3	D	1096	ARG
3	D	1098	LEU
3	D	1103	HIS
3	D	1105	ILE
3	D	1108	ARG
3	D	1109	GLU
3	D	1118	ILE
3	D	1122	LEU
3	D	1126	ASP
3	D	1127	GLU
3	D	1128	VAL
3	D	1131	SER
3	D	1137	ARG
3	D	1152	GLU
3	D	1161	GLU
3	D	1165	TYR
3	D	1166	LEU
3	D	1183	ILE
3	D	1191	PRO
3	D	1194	CYS
3	D	1197	ARG
3	D	1208	ASP
3	D	1210	SER
3	D	1236	LEU
3	D	1251	ASP
3	D	1252	ILE
3	D	1254	GLN
3	D	1260	ILE
3	D	1262	LEU
3	D	1264	GLU
3	D	1278	ASP
3	D	1291	SER
3	D	1299	PHE
3	D	1302	GLU
3	D	1306	PRO
3	D	1311	LEU
3	D	1314	LYS
3	D	1320	GLU
3	D	1325	LEU
3	D	1327	ARG
3	D	1337	GLU

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Mol	Chain	Res	Type
3	D	1342	GLU
3	D	1355	VAL
3	D	1382	THR
3	D	1388	ARG
3	D	1396	GLU
3	D	1410	GLU
3	D	1415	VAL
3	D	1421	LEU
3	D	1424	VAL
3	D	1436	SER
3	D	1440	PHE
3	D	1441	GLN
3	D	1459	LEU
3	D	1460	ILE
3	D	1465	ASN
3	D	1466	VAL
3	D	1472	ILE
3	D	1476	THR
3	D	1483	PHE
3	D	1488	ASP
3	D	1492	LEU
3	D	1496	GLU
3	D	1497	GLU
4	E	7	ASP
4	E	20	THR
4	E	22	VAL
4	E	32	ARG
4	E	35	PHE
4	E	36	LYS
4	E	44	GLU
4	E	51	LEU
4	E	52	GLU
4	E	62	THR
4	E	73	LEU
1	F	7	LYS
1	F	28	LEU
1	F	30	ARG
1	F	47	SER
1	F	62	LEU
1	F	65	PHE
1	F	74	ASP
1	F	80	LEU

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Mol	Chain	Res	Type
1	F	92	PRO
1	F	96	THR
1	F	100	LEU
1	F	101	LEU
1	F	126	ASP
1	F	141	GLU
1	F	161	ARG
1	F	163	ASN
1	F	165	ILE
1	F	175	ARG
1	F	180	GLN
1	F	183	ASP
1	F	184	THR
1	F	186	LEU
1	F	189	ARG
1	F	206	THR
1	F	209	GLU
1	G	18	ARG
1	G	25	LEU
1	G	29	GLU
1	G	34	VAL
1	G	42	ARG
1	G	51	THR
1	G	55	SER
1	G	60	ASP
1	G	62	LEU
1	G	65	PHE
1	G	67	THR
1	G	74	ASP
1	G	79	ILE
1	G	84	GLU
1	G	95	GLN
1	G	104	GLU
1	G	119	ASP
1	G	122	ILE
1	G	123	MET
1	G	126	ASP
1	G	159	LYS
1	G	162	ILE
1	G	165	ILE
1	G	167	VAL
1	G	176	ARG

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Mol	Chain	Res	Type
1	G	179	PHE
1	G	180	GLN
1	G	184	THR
1	G	185	ARG
1	G	186	LEU
1	G	197	LEU
1	G	198	ARG
1	G	201	THR
1	G	206	THR
1	G	216	GLU
1	G	227	ASN
2	H	5	ARG
2	H	9	ILE
2	H	10	ARG
2	H	13	ILE
2	H	16	PRO
2	H	19	THR
2	H	21	ILE
2	H	30	LEU
2	H	31	GLN
2	H	34	VAL
2	H	39	ARG
2	H	48	PHE
2	H	56	GLU
2	H	75	GLU
2	H	77	PRO
2	H	78	PHE
2	H	88	LEU
2	H	91	GLN
2	H	94	LEU
2	H	95	TYR
2	H	97	ARG
2	H	98	LEU
2	H	105	THR
2	H	115	LEU
2	H	124	ASP
2	H	126	SER
2	H	133	ASP
2	H	137	VAL
2	H	142	ARG
2	H	158	TYR
2	H	172	ILE

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Mol	Chain	Res	Type
2	H	177	GLU
2	H	178	PRO
2	H	188	LYS
2	H	189	ARG
2	H	190	LYS
2	H	193	LEU
2	H	194	VAL
2	H	198	ARG
2	H	203	ASP
2	H	205	GLU
2	H	206	THR
2	H	225	SER
2	H	230	ARG
2	H	237	ARG
2	H	238	LEU
2	H	241	LEU
2	H	260	LEU
2	H	261	ILE
2	H	265	ARG
2	H	267	TYR
2	H	278	GLU
2	H	281	LEU
2	H	283	ILE
2	H	285	LEU
2	H	288	ARG
2	H	289	THR
2	H	290	LEU
2	H	293	PHE
2	H	294	GLU
2	H	298	PHE
2	H	302	VAL
2	H	304	LEU
2	H	333	ILE
2	H	335	THR
2	H	343	GLN
2	H	355	VAL
2	H	356	ARG
2	H	358	ARG
2	H	360	LEU
2	H	365	ASP
2	H	368	THR
2	H	369	PRO

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Mol	Chain	Res	Type
2	H	371	LYS
2	H	374	ASN
2	H	375	SER
2	H	376	ARG
2	H	383	ARG
2	H	388	ARG
2	H	390	GLN
2	H	393	GLN
2	H	394	PHE
2	H	410	ILE
2	H	419	THR
2	H	425	PHE
2	H	430	VAL
2	H	433	THR
2	H	441	VAL
2	H	453	THR
2	H	455	LEU
2	H	466	PHE
2	H	480	THR
2	H	489	THR
2	H	500	ASN
2	H	503	LEU
2	H	518	LYS
2	H	523	ILE
2	H	533	ASP
2	H	545	ASN
2	H	547	ILE
2	H	548	PRO
2	H	557	ARG
2	H	559	LEU
2	H	572	ILE
2	H	579	VAL
2	H	584	GLU
2	H	586	ARG
2	H	588	VAL
2	H	592	LEU
2	H	595	LEU
2	H	600	ASP
2	H	609	ASN
2	H	614	ARG
2	H	620	LEU
2	H	621	VAL

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Mol	Chain	Res	Type
2	H	631	SER
2	H	635	THR
2	H	640	ARG
2	H	642	ARG
2	H	645	VAL
2	H	654	LEU
2	H	657	ASP
2	H	662	GLU
2	H	668	LEU
2	H	685	GLU
2	H	691	SER
2	H	695	LEU
2	H	701	THR
2	H	704	HIS
2	H	714	ASP
2	H	722	ILE
2	H	727	PRO
2	H	728	HIS
2	H	729	LEU
2	H	738	ASP
2	H	740	GLU
2	H	754	ILE
2	H	794	PRO
2	H	796	GLU
2	H	799	ILE
2	H	800	VAL
2	H	803	THR
2	H	805	ARG
2	H	807	ARG
2	H	815	LEU
2	H	839	LEU
2	H	856	GLU
2	H	863	ASP
2	H	869	VAL
2	H	870	ILE
2	H	881	ASN
2	H	884	GLN
2	H	900	ARG
2	H	904	PRO
2	H	918	LEU
2	H	920	GLN
2	H	923	GLU

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Mol	Chain	Res	Type
2	H	929	ARG
2	H	938	LYS
2	H	939	ARG
2	H	942	GLU
2	H	946	ARG
2	H	950	LEU
2	H	952	LEU
2	H	953	VAL
2	H	958	THR
2	H	963	LEU
2	H	969	GLN
2	H	975	TYR
2	H	981	GLU
2	H	988	VAL
2	H	989	VAL
2	H	995	MET
2	H	999	HIS
2	H	1000	MET
2	H	1004	LYS
2	H	1012	PRO
2	H	1014	SER
2	H	1026	GLN
2	H	1050	GLN
2	H	1060	ILE
2	H	1063	ARG
2	H	1076	VAL
2	H	1088	LEU
2	H	1092	LEU
2	H	1095	LEU
2	H	1097	LEU
2	H	1105	LYS
2	H	1111	ILE
2	H	1112	PHE
3	I	5	VAL
3	I	6	ARG
3	I	10	ILE
3	I	21	TRP
3	I	32	ILE
3	I	37	LEU
3	I	40	GLU
3	I	41	ARG
3	I	47	GLU

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Mol	Chain	Res	Type
3	I	84	ILE
3	I	85	VAL
3	I	87	ARG
3	I	89	ARG
3	I	95	LEU
3	I	98	PRO
3	I	101	HIS
3	I	102	ILE
3	I	108	VAL
3	I	112	ILE
3	I	126	VAL
3	I	127	LEU
3	I	128	TYR
3	I	131	LYS
3	I	134	VAL
3	I	141	ILE
3	I	142	LEU
3	I	143	ASN
3	I	148	GLU
3	I	151	GLN
3	I	152	LEU
3	I	153	LEU
3	I	154	THR
3	I	157	GLU
3	I	160	GLU
3	I	161	LEU
3	I	163	TYR
3	I	181	ASP
3	I	199	LEU
3	I	205	TYR
3	I	207	PHE
3	I	390	PRO
3	I	393	ILE
3	I	394	LEU
3	I	405	ASP
3	I	434	ARG
3	I	438	ASP
3	I	451	ASP
3	I	452	ILE
3	I	456	MET
3	I	465	LEU
3	I	469	ASP

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Mol	Chain	Res	Type
3	I	470	LEU
3	I	471	GLU
3	I	486	ARG
3	I	489	ARG
3	I	497	GLU
3	I	504	ASP
3	I	512	MET
3	I	522	PRO
3	I	524	LEU
3	I	525	ARG
3	I	539	ASP
3	I	543	LEU
3	I	549	ASN
3	I	551	ASN
3	I	564	GLU
3	I	593	ASN
3	I	594	PRO
3	I	598	ARG
3	I	600	LEU
3	I	602	SER
3	I	618	LEU
3	I	619	LEU
3	I	621	LYS
3	I	622	ARG
3	I	631	ILE
3	I	639	LEU
3	I	641	GLN
3	I	651	GLU
3	I	652	LEU
3	I	660	LYS
3	I	670	VAL
3	I	685	ASP
3	I	686	GLU
3	I	688	TRP
3	I	701	LEU
3	I	709	HIS
3	I	710	ARG
3	I	734	GLU
3	I	747	VAL
3	I	749	VAL
3	I	764	LEU
3	I	765	SER

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Mol	Chain	Res	Type
3	I	772	PRO
3	I	778	LEU
3	I	781	PRO
3	I	783	ARG
3	I	785	ILE
3	I	791	TYR
3	I	792	ILE
3	I	795	VAL
3	I	799	LYS
3	I	804	LEU
3	I	817	GLU
3	I	828	LYS
3	I	832	ARG
3	I	833	GLU
3	I	842	VAL
3	I	863	VAL
3	I	864	VAL
3	I	880	ILE
3	I	885	ILE
3	I	890	VAL
3	I	892	ASP
3	I	897	TRP
3	I	900	ILE
3	I	902	LEU
3	I	914	LEU
3	I	920	LEU
3	I	922	LEU
3	I	925	GLU
3	I	926	LYS
3	I	927	THR
3	I	944	THR
3	I	957	PRO
3	I	959	GLU
3	I	964	LEU
3	I	970	LYS
3	I	982	PHE
3	I	983	LEU
3	I	988	ARG
3	I	991	GLN
3	I	999	THR
3	I	1001	GLU
3	I	1025	GLN

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Mol	Chain	Res	Type
3	I	1029	ARG
3	I	1031	ASN
3	I	1041	LEU
3	I	1042	ARG
3	I	1062	ARG
3	I	1068	LEU
3	I	1078	ARG
3	I	1083	ASP
3	I	1087	ARG
3	I	1088	THR
3	I	1090	ASP
3	I	1096	ARG
3	I	1098	LEU
3	I	1100	ASP
3	I	1101	VAL
3	I	1102	THR
3	I	1103	HIS
3	I	1108	ARG
3	I	1109	GLU
3	I	1119	SER
3	I	1126	ASP
3	I	1151	ARG
3	I	1161	GLU
3	I	1166	LEU
3	I	1183	ILE
3	I	1191	PRO
3	I	1194	CYS
3	I	1197	ARG
3	I	1207	TYR
3	I	1208	ASP
3	I	1237	THR
3	I	1262	LEU
3	I	1264	GLU
3	I	1286	THR
3	I	1299	PHE
3	I	1304	LYS
3	I	1305	LEU
3	I	1307	LYS
3	I	1308	GLU
3	I	1311	LEU
3	I	1314	LYS
3	I	1320	GLU

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Mol	Chain	Res	Type
3	I	1325	LEU
3	I	1327	ARG
3	I	1337	GLU
3	I	1342	GLU
3	I	1355	VAL
3	I	1382	THR
3	I	1388	ARG
3	I	1389	LEU
3	I	1395	LEU
3	I	1396	GLU
3	I	1410	GLU
3	I	1415	VAL
3	I	1421	LEU
3	I	1424	VAL
3	I	1425	THR
3	I	1435	LEU
3	I	1465	ASN
3	I	1466	VAL
3	I	1467	ILE
3	I	1472	ILE
3	I	1485	GLN
3	I	1492	LEU
3	I	1499	ARG
4	J	18	ARG
4	J	20	THR
4	J	36	LYS
4	J	37	ASN
4	J	43	GLU
4	J	44	GLU
4	J	52	GLU
4	J	62	THR
4	J	86	GLN
1	K	9	PRO
1	K	12	THR
1	K	16	GLN
1	K	22	GLU
1	K	26	GLU
1	K	30	ARG
1	K	34	VAL
1	K	47	SER
1	K	62	LEU
1	K	65	PHE

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Mol	Chain	Res	Type
1	K	74	ASP
1	K	79	ILE
1	K	80	LEU
1	K	92	PRO
1	K	96	THR
1	K	100	LEU
1	K	101	LEU
1	K	126	ASP
1	K	141	GLU
1	K	161	ARG
1	K	163	ASN
1	K	165	ILE
1	K	175	ARG
1	K	180	GLN
1	K	181	VAL
1	K	183	ASP
1	K	188	GLN
1	K	189	ARG
1	K	206	THR
1	K	209	GLU
1	K	219	ARG
1	K	229	GLN
1	L	18	ARG
1	L	25	LEU
1	L	29	GLU
1	L	35	THR
1	L	54	THR
1	L	58	ILE
1	L	62	LEU
1	L	65	PHE
1	L	66	SER
1	L	67	THR
1	L	73	GLU
1	L	79	ILE
1	L	80	LEU
1	L	84	GLU
1	L	95	GLN
1	L	104	GLU
1	L	115	LEU
1	L	123	MET
1	L	159	LYS
1	L	161	ARG

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Mol	Chain	Res	Type
1	L	162	ILE
1	L	165	ILE
1	L	176	ARG
1	L	179	PHE
1	L	180	GLN
1	L	184	THR
1	L	185	ARG
1	L	186	LEU
1	L	197	LEU
1	L	198	ARG
1	L	201	THR
1	L	206	THR
1	L	216	GLU
1	L	227	ASN
2	M	6	PHE
2	M	21	ILE
2	M	26	TYR
2	M	33	ASP
2	M	48	PHE
2	M	54	ILE
2	M	56	GLU
2	M	72	ARG
2	M	75	GLU
2	M	84	ARG
2	M	88	LEU
2	M	89	THR
2	M	94	LEU
2	M	98	LEU
2	M	115	LEU
2	M	124	ASP
2	M	126	SER
2	M	129	ILE
2	M	142	ARG
2	M	152	PRO
2	M	158	TYR
2	M	172	ILE
2	M	177	GLU
2	M	182	VAL
2	M	187	ASN
2	M	188	LYS
2	M	190	LYS
2	M	192	PRO

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Mol	Chain	Res	Type
2	M	193	LEU
2	M	196	LEU
2	M	203	ASP
2	M	205	GLU
2	M	207	LEU
2	M	209	ARG
2	M	214	TYR
2	M	225	SER
2	M	235	LEU
2	M	236	ILE
2	M	237	ARG
2	M	238	LEU
2	M	241	LEU
2	M	242	LEU
2	M	243	ARG
2	M	252	LYS
2	M	257	VAL
2	M	261	ILE
2	M	263	ASP
2	M	267	TYR
2	M	281	LEU
2	M	283	ILE
2	M	290	LEU
2	M	293	PHE
2	M	302	VAL
2	M	304	LEU
2	M	313	LEU
2	M	314	THR
2	M	321	GLU
2	M	331	ARG
2	M	333	ILE
2	M	335	THR
2	M	343	GLN
2	M	345	ARG
2	M	355	VAL
2	M	359	MET
2	M	361	MET
2	M	365	ASP
2	M	367	LEU
2	M	368	THR
2	M	369	PRO
2	M	374	ASN

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Mol	Chain	Res	Type
2	M	375	SER
2	M	376	ARG
2	M	383	ARG
2	M	388	ARG
2	M	392	SER
2	M	394	PHE
2	M	410	ILE
2	M	419	THR
2	M	430	VAL
2	M	433	THR
2	M	441	VAL
2	M	453	THR
2	M	455	LEU
2	M	460	ARG
2	M	469	THR
2	M	474	VAL
2	M	480	THR
2	M	481	ASP
2	M	489	THR
2	M	496	ILE
2	M	500	ASN
2	M	518	LYS
2	M	523	ILE
2	M	533	ASP
2	M	545	ASN
2	M	547	ILE
2	M	548	PRO
2	M	557	ARG
2	M	559	LEU
2	M	572	ILE
2	M	579	VAL
2	M	584	GLU
2	M	587	VAL
2	M	590	ASP
2	M	592	LEU
2	M	607	ASP
2	M	611	ILE
2	M	617	ASP
2	M	620	LEU
2	M	621	VAL
2	M	631	SER
2	M	635	THR

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Mol	Chain	Res	Type
2	M	640	ARG
2	M	642	ARG
2	M	645	VAL
2	M	654	LEU
2	M	657	ASP
2	M	662	GLU
2	M	668	LEU
2	M	685	GLU
2	M	691	SER
2	M	695	LEU
2	M	699	PHE
2	M	701	THR
2	M	702	SER
2	M	704	HIS
2	M	714	ASP
2	M	722	ILE
2	M	727	PRO
2	M	728	HIS
2	M	729	LEU
2	M	738	ASP
2	M	740	GLU
2	M	754	ILE
2	M	783	ARG
2	M	788	THR
2	M	794	PRO
2	M	796	GLU
2	M	799	ILE
2	M	800	VAL
2	M	803	THR
2	M	805	ARG
2	M	807	ARG
2	M	815	LEU
2	M	825	VAL
2	M	839	LEU
2	M	856	GLU
2	M	863	ASP
2	M	869	VAL
2	M	870	ILE
2	M	881	ASN
2	M	884	GLN
2	M	900	ARG
2	M	904	PRO

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Mol	Chain	Res	Type
2	M	918	LEU
2	M	920	GLN
2	M	923	GLU
2	M	929	ARG
2	M	938	LYS
2	M	939	ARG
2	M	942	GLU
2	M	946	ARG
2	M	950	LEU
2	M	952	LEU
2	M	953	VAL
2	M	958	THR
2	M	963	LEU
2	M	969	GLN
2	M	975	TYR
2	M	981	GLU
2	M	988	VAL
2	M	989	VAL
2	M	995	MET
2	M	999	HIS
2	M	1004	LYS
2	M	1005	MET
2	M	1006	HIS
2	M	1010	THR
2	M	1012	PRO
2	M	1026	GLN
2	M	1050	GLN
2	M	1058	ASP
2	M	1064	ASN
2	M	1076	VAL
2	M	1088	LEU
2	M	1092	LEU
2	M	1095	LEU
2	M	1097	LEU
2	M	1105	LYS
2	M	1111	ILE
3	N	5	VAL
3	N	21	TRP
3	N	34	TYR
3	N	37	LEU
3	N	41	ARG
3	N	47	GLU

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Mol	Chain	Res	Type
3	N	53	ILE
3	N	55	ASP
3	N	82	LYS
3	N	86	ARG
3	N	87	ARG
3	N	88	TYR
3	N	95	LEU
3	N	98	PRO
3	N	101	HIS
3	N	102	ILE
3	N	108	VAL
3	N	112	ILE
3	N	127	LEU
3	N	128	TYR
3	N	129	PHE
3	N	130	SER
3	N	131	LYS
3	N	135	LEU
3	N	141	ILE
3	N	145	VAL
3	N	147	VAL
3	N	149	LYS
3	N	150	ARG
3	N	152	LEU
3	N	153	LEU
3	N	154	THR
3	N	161	LEU
3	N	163	TYR
3	N	176	ASP
3	N	178	LEU
3	N	189	GLN
3	N	199	LEU
3	N	205	TYR
3	N	216	VAL
3	N	340	THR
3	N	344	ASP
3	N	347	VAL
3	N	349	PRO
3	N	350	HIS
3	N	351	MET
3	N	357	GLU
3	N	372	ASP

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Mol	Chain	Res	Type
3	N	387	LEU
3	N	434	ARG
3	N	438	ASP
3	N	448	GLU
3	N	450	TYR
3	N	452	ILE
3	N	465	LEU
3	N	469	ASP
3	N	470	LEU
3	N	471	GLU
3	N	486	ARG
3	N	489	ARG
3	N	497	GLU
3	N	504	ASP
3	N	512	MET
3	N	538	SER
3	N	592	THR
3	N	594	PRO
3	N	621	LYS
3	N	631	ILE
3	N	639	LEU
3	N	641	GLN
3	N	651	GLU
3	N	652	LEU
3	N	660	LYS
3	N	670	VAL
3	N	678	GLU
3	N	679	ARG
3	N	681	ARG
3	N	684	LYS
3	N	685	ASP
3	N	686	GLU
3	N	688	TRP
3	N	701	LEU
3	N	709	HIS
3	N	710	ARG
3	N	734	GLU
3	N	747	VAL
3	N	749	VAL
3	N	764	LEU
3	N	765	SER
3	N	772	PRO

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Mol	Chain	Res	Type
3	N	778	LEU
3	N	781	PRO
3	N	783	ARG
3	N	785	ILE
3	N	787	LEU
3	N	791	TYR
3	N	792	ILE
3	N	799	LYS
3	N	805	GLU
3	N	817	GLU
3	N	828	LYS
3	N	832	ARG
3	N	833	GLU
3	N	842	VAL
3	N	863	VAL
3	N	864	VAL
3	N	880	ILE
3	N	885	ILE
3	N	890	VAL
3	N	892	ASP
3	N	897	TRP
3	N	900	ILE
3	N	902	LEU
3	N	914	LEU
3	N	920	LEU
3	N	922	LEU
3	N	925	GLU
3	N	926	LYS
3	N	927	THR
3	N	944	THR
3	N	947	ILE
3	N	949	ILE
3	N	952	ASP
3	N	957	PRO
3	N	959	GLU
3	N	964	LEU
3	N	970	LYS
3	N	982	PHE
3	N	983	LEU
3	N	988	ARG
3	N	991	GLN
3	N	999	THR

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Mol	Chain	Res	Type
3	N	1001	GLU
3	N	1025	GLN
3	N	1029	ARG
3	N	1033	GLN
3	N	1041	LEU
3	N	1042	ARG
3	N	1062	ARG
3	N	1068	LEU
3	N	1078	ARG
3	N	1083	ASP
3	N	1087	ARG
3	N	1090	ASP
3	N	1095	THR
3	N	1096	ARG
3	N	1098	LEU
3	N	1105	ILE
3	N	1108	ARG
3	N	1109	GLU
3	N	1128	VAL
3	N	1135	ARG
3	N	1151	ARG
3	N	1152	GLU
3	N	1155	VAL
3	N	1162	GLU
3	N	1166	LEU
3	N	1183	ILE
3	N	1191	PRO
3	N	1194	CYS
3	N	1197	ARG
3	N	1207	TYR
3	N	1208	ASP
3	N	1251	ASP
3	N	1260	ILE
3	N	1262	LEU
3	N	1264	GLU
3	N	1282	ARG
3	N	1283	ILE
3	N	1286	THR
3	N	1297	GLU
3	N	1299	PHE
3	N	1304	LYS
3	N	1305	LEU

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Mol	Chain	Res	Type
3	N	1307	LYS
3	N	1308	GLU
3	N	1311	LEU
3	N	1314	LYS
3	N	1320	GLU
3	N	1325	LEU
3	N	1327	ARG
3	N	1337	GLU
3	N	1342	GLU
3	N	1355	VAL
3	N	1382	THR
3	N	1386	ASP
3	N	1388	ARG
3	N	1393	GLN
3	N	1396	GLU
3	N	1410	GLU
3	N	1415	VAL
3	N	1421	LEU
3	N	1424	VAL
3	N	1425	THR
3	N	1433	SER
3	N	1434	TRP
3	N	1440	PHE
3	N	1449	GLU
3	N	1465	ASN
3	N	1472	ILE
3	N	1476	THR
3	N	1488	ASP
3	N	1493	LYS
4	O	6	ILE
4	O	7	ASP
4	O	14	ASP
4	O	18	ARG
4	O	31	LEU
4	O	32	ARG
4	O	41	GLU
4	O	43	GLU
4	O	44	GLU
4	O	48	MET
4	O	62	THR
4	O	73	LEU
4	O	77	GLU

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Mol	Chain	Res	Type
4	O	81	PRO
4	O	86	GLN
4	O	89	MET
4	O	90	GLU
7	X	8	THR
7	X	30	THR
7	X	37	MET
7	X	41	ASP
7	X	43	TYR
7	X	48	LEU
7	X	58	ILE
7	X	62	ILE
7	X	77	GLU
7	X	94	PRO
7	X	102	VAL
7	X	105	VAL
7	X	113	LEU
7	X	114	ASP
7	X	115	THR
7	X	124	PRO
7	X	138	LEU
7	X	139	SER
7	X	152	VAL
7	X	154	ILE
7	Y	7	LEU
7	Y	30	THR
7	Y	34	GLN
7	Y	37	MET
7	Y	41	ASP
7	Y	45	ASP
7	Y	54	GLU
7	Y	67	ASP
7	Y	70	SER
7	Y	74	ILE
7	Y	76	GLU
7	Y	88	VAL
7	Y	95	LEU
7	Y	102	VAL
7	Y	113	LEU
7	Y	114	ASP
7	Y	115	THR
7	Y	117	MET

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Mol	Chain	Res	Type
7	Y	124	PRO
7	Y	130	LEU
7	Y	138	LEU
7	Y	143	PRO
7	Y	148	GLU
7	Y	150	ARG
7	Y	154	ILE
7	Z	8	THR
7	Z	14	ARG
7	Z	37	MET
7	Z	40	SER
7	Z	48	LEU
7	Z	57	ARG
7	Z	71	ARG
7	Z	77	GLU
7	Z	94	PRO
7	Z	98	GLU
7	Z	102	VAL
7	Z	113	LEU
7	Z	114	ASP
7	Z	115	THR
7	Z	138	LEU
7	Z	139	SER
7	Z	143	PRO
7	Z	151	VAL
7	Z	154	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (273) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	91	ASN
1	A	124	ASN
1	A	128	HIS
1	A	139	ASN
1	A	156	HIS
1	A	163	ASN
1	A	188	GLN
1	A	229	GLN
1	B	16	GLN
1	B	38	ASN
1	B	63	HIS
1	B	95	GLN

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Mol	Chain	Res	Type
1	B	124	ASN
1	B	163	ASN
1	B	180	GLN
1	B	212	ASN
1	B	227	ASN
2	C	22	GLN
2	C	41	ASN
2	C	80	GLN
2	C	91	GLN
2	C	99	GLN
2	C	102	HIS
2	C	139	GLN
2	C	179	ASN
2	C	374	ASN
2	C	390	GLN
2	C	393	GLN
2	C	431	HIS
2	C	498	GLN
2	C	543	ASN
2	C	556	ASN
2	C	575	GLN
2	C	633	GLN
2	C	639	GLN
2	C	670	GLN
2	C	834	GLN
2	C	860	HIS
2	C	872	ASN
2	C	899	GLN
2	C	969	GLN
2	C	991	GLN
2	C	1047	HIS
2	C	1100	GLN
2	C	1107	ASN
3	D	33	ASN
3	D	125	GLN
3	D	151	GLN
3	D	166	GLN
3	D	463	GLN
3	D	541	ASN
3	D	549	ASN
3	D	560	GLN
3	D	617	ASN

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Mol	Chain	Res	Type
3	D	640	HIS
3	D	703	ASN
3	D	717	GLN
3	D	727	GLN
3	D	744	GLN
3	D	762	GLN
3	D	816	HIS
3	D	824	ASN
3	D	855	HIS
3	D	909	ASN
3	D	973	GLN
3	D	976	GLN
3	D	1010	ASN
3	D	1014	ASN
3	D	1025	GLN
3	D	1033	GLN
3	D	1034	GLN
3	D	1103	HIS
3	D	1184	GLN
3	D	1202	GLN
3	D	1323	GLN
3	D	1359	GLN
3	D	1367	HIS
3	D	1441	GLN
3	D	1442	ASN
4	E	28	GLN
4	E	33	HIS
4	E	37	ASN
4	E	78	ASN
4	E	86	GLN
1	F	38	ASN
1	F	91	ASN
1	F	124	ASN
1	F	128	HIS
1	F	139	ASN
1	F	156	HIS
1	F	163	ASN
1	F	188	GLN
1	F	229	GLN
1	G	16	GLN
1	G	38	ASN
1	G	91	ASN

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Mol	Chain	Res	Type
1	G	95	GLN
1	G	124	ASN
1	G	180	GLN
1	G	212	ASN
1	G	227	ASN
2	H	31	GLN
2	H	41	ASN
2	H	45	GLN
2	H	80	GLN
2	H	99	GLN
2	H	102	HIS
2	H	117	HIS
2	H	187	ASN
2	H	219	GLN
2	H	327	HIS
2	H	343	GLN
2	H	374	ASN
2	H	390	GLN
2	H	393	GLN
2	H	431	HIS
2	H	543	ASN
2	H	552	HIS
2	H	556	ASN
2	H	565	GLN
2	H	575	GLN
2	H	609	ASN
2	H	633	GLN
2	H	639	GLN
2	H	670	GLN
2	H	834	GLN
2	H	860	HIS
2	H	872	ASN
2	H	899	GLN
2	H	969	GLN
2	H	991	GLN
2	H	1030	GLN
2	H	1047	HIS
2	H	1064	ASN
2	H	1100	GLN
2	H	1107	ASN
3	I	151	GLN
3	I	166	GLN

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Mol	Chain	Res	Type
3	I	189	GLN
3	I	463	GLN
3	I	549	ASN
3	I	551	ASN
3	I	560	GLN
3	I	593	ASN
3	I	611	GLN
3	I	640	HIS
3	I	703	ASN
3	I	717	GLN
3	I	727	GLN
3	I	744	GLN
3	I	748	HIS
3	I	762	GLN
3	I	768	ASN
3	I	816	HIS
3	I	824	ASN
3	I	909	ASN
3	I	973	GLN
3	I	976	GLN
3	I	991	GLN
3	I	1010	ASN
3	I	1014	ASN
3	I	1025	GLN
3	I	1034	GLN
3	I	1116	ASN
3	I	1202	GLN
3	I	1235	GLN
3	I	1323	GLN
3	I	1359	GLN
3	I	1367	HIS
3	I	1441	GLN
3	I	1442	ASN
3	I	1445	HIS
3	I	1465	ASN
3	I	1485	GLN
4	J	28	GLN
4	J	33	HIS
4	J	37	ASN
4	J	86	GLN
1	K	38	ASN
1	K	91	ASN

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Mol	Chain	Res	Type
1	K	124	ASN
1	K	128	HIS
1	K	139	ASN
1	K	156	HIS
1	K	163	ASN
1	K	180	GLN
1	K	229	GLN
1	L	16	GLN
1	L	95	GLN
1	L	180	GLN
1	L	212	ASN
1	L	227	ASN
2	M	22	GLN
2	M	31	GLN
2	M	219	GLN
2	M	343	GLN
2	M	374	ASN
2	M	390	GLN
2	M	393	GLN
2	M	431	HIS
2	M	543	ASN
2	M	552	HIS
2	M	556	ASN
2	M	575	GLN
2	M	633	GLN
2	M	639	GLN
2	M	670	GLN
2	M	834	GLN
2	M	860	HIS
2	M	872	ASN
2	M	899	GLN
2	M	969	GLN
2	M	1006	HIS
2	M	1030	GLN
2	M	1047	HIS
2	M	1064	ASN
2	M	1100	GLN
2	M	1107	ASN
3	N	151	GLN
3	N	166	GLN
3	N	189	GLN
3	N	463	GLN

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Mol	Chain	Res	Type
3	N	541	ASN
3	N	549	ASN
3	N	552	ASN
3	N	560	GLN
3	N	617	ASN
3	N	640	HIS
3	N	669	ASN
3	N	703	ASN
3	N	717	GLN
3	N	724	GLN
3	N	727	GLN
3	N	744	GLN
3	N	748	HIS
3	N	762	GLN
3	N	767	HIS
3	N	816	HIS
3	N	824	ASN
3	N	909	ASN
3	N	973	GLN
3	N	976	GLN
3	N	994	GLN
3	N	1010	ASN
3	N	1014	ASN
3	N	1025	GLN
3	N	1034	GLN
3	N	1116	ASN
3	N	1202	GLN
3	N	1235	GLN
3	N	1254	GLN
3	N	1323	GLN
3	N	1359	GLN
3	N	1367	HIS
3	N	1441	GLN
3	N	1442	ASN
3	N	1465	ASN
4	O	33	HIS
4	O	37	ASN
4	O	59	ASN
7	X	27	GLN
7	X	53	GLN
7	X	103	GLN
7	Y	17	GLN

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Mol	Chain	Res	Type
7	Y	18	GLN
7	Y	27	GLN
7	Y	103	GLN
7	Y	132	HIS
7	Z	17	GLN
7	Z	18	GLN
7	Z	27	GLN
7	Z	34	GLN
7	Z	132	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
6	Q	6/32 (18%)	1 (16%)	0
6	S	7/32 (21%)	2 (28%)	0
6	U	6/32 (18%)	3 (50%)	0
All	All	19/96 (19%)	6 (31%)	0

All (6) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
6	Q	11	C
6	S	13	G
6	S	16	G
6	U	11	C
6	U	12	G
6	U	16	G

There are no RNA pucker outliers to report.

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 6 ligands modelled in this entry, 6 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	223/315 (70%)	0.47	6 (2%) 56 43	82, 143, 203, 231	0
1	B	223/315 (70%)	0.43	8 (3%) 46 37	86, 150, 211, 231	0
1	F	223/315 (70%)	0.55	13 (5%) 29 28	88, 145, 202, 231	0
1	G	224/315 (71%)	0.52	9 (4%) 42 35	74, 150, 204, 231	0
1	K	225/315 (71%)	0.53	6 (2%) 56 43	77, 152, 205, 231	0
1	L	223/315 (70%)	0.49	7 (3%) 51 40	71, 146, 208, 231	0
2	C	1083/1119 (96%)	0.56	65 (6%) 27 27	46, 150, 225, 231	0
2	H	1080/1119 (96%)	0.60	65 (6%) 27 27	32, 148, 226, 231	0
2	M	1084/1119 (96%)	0.74	94 (8%) 16 19	51, 150, 227, 231	0
3	D	1316/1524 (86%)	0.59	66 (5%) 34 31	91, 161, 249, 285	0
3	I	1262/1524 (82%)	0.69	95 (7%) 20 23	91, 160, 246, 285	0
3	N	1327/1524 (87%)	0.73	110 (8%) 17 21	91, 162, 250, 284	0
4	E	93/99 (93%)	0.49	5 (5%) 31 29	91, 182, 231, 231	0
4	J	93/99 (93%)	0.42	3 (3%) 50 39	98, 176, 231, 231	0
4	O	93/99 (93%)	0.60	8 (8%) 16 19	90, 172, 231, 231	0
5	P	7/27 (25%)	0.62	0 100 100	199, 200, 200, 200	0
5	R	6/27 (22%)	0.68	0 100 100	200, 200, 200, 200	0
5	T	5/27 (18%)	0.89	0 100 100	199, 200, 200, 200	0
6	Q	7/32 (21%)	0.07	0 100 100	195, 200, 200, 200	0
6	S	8/32 (25%)	0.56	0 100 100	200, 200, 200, 200	0
6	U	7/32 (21%)	0.40	0 100 100	194, 200, 200, 200	0
7	X	154/156 (98%)	0.43	6 (3%) 43 36	97, 175, 229, 231	0
7	Y	152/156 (97%)	0.43	6 (3%) 43 36	88, 174, 228, 231	0
7	Z	152/156 (97%)	0.48	5 (3%) 49 39	95, 172, 228, 231	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
All	All	9270/10761 (86%)	0.62	577 (6%) 26 27	32, 156, 231, 285	0

All (577) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	D	355	VAL	8.4
3	I	1292	VAL	8.4
2	H	1097	LEU	8.4
3	D	1313	VAL	7.4
3	N	191	LEU	6.3
3	I	881	LEU	6.2
2	H	1099	VAL	5.6
1	G	64	GLU	5.5
2	H	271	GLU	5.5
3	D	834	THR	5.3
3	I	191	LEU	5.2
3	D	836	VAL	5.2
3	D	1174	LEU	5.1
3	D	1292	VAL	4.9
3	D	971	LEU	4.9
4	E	56	ASP	4.8
2	M	998	TYR	4.8
2	M	1091	GLU	4.7
2	M	1092	LEU	4.7
2	C	271	GLU	4.6
3	I	834	THR	4.6
2	C	682	TYR	4.5
3	I	1421	LEU	4.4
4	E	57	ASP	4.3
2	M	636	ALA	4.3
2	M	174	LEU	4.3
3	I	461	ILE	4.2
2	M	1096	ALA	4.2
2	C	268	ASP	4.2
2	H	268	ASP	4.2
2	M	1088	LEU	4.2
4	O	56	ASP	4.2
2	M	519	GLY	4.1
2	H	823	VAL	4.1
3	D	163	TYR	4.0
2	M	1066	ALA	4.0
3	I	1120	VAL	4.0

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Mol	Chain	Res	Type	RSRZ
3	I	1468	LEU	4.0
3	I	566	ILE	3.9
3	N	1335	LEU	3.9
3	D	367	ILE	3.9
2	C	221	LEU	3.9
2	M	986	PRO	3.9
2	M	1097	LEU	3.9
3	I	757	ALA	3.9
2	H	686	ASP	3.9
2	M	1016	ILE	3.8
2	H	333	ILE	3.8
2	H	804	VAL	3.8
2	H	998	TYR	3.8
3	D	893	GLU	3.8
2	H	1096	ALA	3.7
3	N	848	GLU	3.7
2	C	757	GLY	3.7
2	M	1099	VAL	3.7
2	M	1084	SER	3.7
1	F	47	SER	3.7
2	C	1083	GLU	3.7
3	I	737	ASN	3.6
2	M	1080	SER	3.6
3	D	1210	SER	3.6
2	H	636	ALA	3.5
3	I	1313	VAL	3.5
3	N	1474	ALA	3.5
3	I	727	GLN	3.5
3	N	1311	LEU	3.5
3	I	1276	GLU	3.5
3	N	834	THR	3.5
3	N	1313	VAL	3.5
2	C	805	ARG	3.5
2	M	516	ARG	3.5
7	Z	117	MET	3.5
2	M	1017	THR	3.5
3	N	836	VAL	3.5
2	C	998	TYR	3.5
2	C	1019	GLN	3.5
1	G	151	VAL	3.5
2	H	1083	GLU	3.5
3	D	1064	GLY	3.4

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Mol	Chain	Res	Type	RSRZ
3	N	1124	GLN	3.4
3	N	482	LYS	3.4
3	I	1305	LEU	3.4
2	H	1092	LEU	3.4
2	M	268	ASP	3.3
2	M	446	GLY	3.3
3	N	128	TYR	3.3
1	L	120	VAL	3.3
2	C	516	ARG	3.3
2	H	408	ARG	3.3
3	N	840	LYS	3.3
2	H	542	VAL	3.3
2	C	52	PHE	3.3
3	N	1090	ASP	3.3
1	F	33	GLY	3.3
2	H	270	GLY	3.3
2	M	1075	ASP	3.3
3	D	708	LEU	3.3
1	L	100	LEU	3.2
4	O	80	VAL	3.2
3	D	839	LEU	3.2
3	I	1034	GLN	3.2
3	D	1398	TRP	3.2
2	M	410	ILE	3.2
3	N	880	ILE	3.2
2	C	445	GLU	3.1
4	E	50	THR	3.1
3	D	543	LEU	3.1
3	I	1155	VAL	3.1
3	I	102	ILE	3.1
2	C	604	ALA	3.1
3	I	1028	ALA	3.1
2	C	741	GLY	3.1
2	C	1091	GLU	3.1
3	I	1064	GLY	3.1
2	M	1006	HIS	3.1
2	M	686	ASP	3.1
3	I	753	SER	3.1
3	N	991	GLN	3.1
3	N	1430	SER	3.1
3	N	393	ILE	3.1
1	F	186	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
2	C	675	ALA	3.1
2	C	1088	LEU	3.1
2	M	131	GLY	3.0
2	M	372	LEU	3.0
3	I	1430	SER	3.0
3	D	802	ALA	3.0
3	D	1074	SER	3.0
2	C	461	VAL	3.0
2	M	680	ASP	3.0
2	M	352	ALA	3.0
2	C	1003	ASP	3.0
3	N	1228	SER	3.0
1	F	37	GLY	3.0
3	N	170	PRO	3.0
7	Y	18	GLN	3.0
2	C	48	PHE	3.0
3	I	103	TRP	3.0
3	I	725	SER	3.0
2	H	824	ARG	3.0
1	A	82	LEU	3.0
2	C	270	GLY	3.0
4	O	94	PRO	2.9
3	N	754	PHE	2.9
2	M	704	HIS	2.9
3	D	159	ARG	2.9
3	I	1404	ASN	2.9
3	N	103	TRP	2.9
3	N	509	PRO	2.9
3	N	1094	LEU	2.9
2	H	275	TYR	2.9
1	K	205	VAL	2.9
1	B	113	ASP	2.9
1	F	122	ILE	2.9
3	I	711	LEU	2.9
3	I	1346	ARG	2.9
4	J	50	THR	2.9
3	I	833	GLU	2.9
3	N	171	LEU	2.9
3	I	1210	SER	2.9
3	N	660	LYS	2.9
2	H	269	LEU	2.9
3	N	174	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
3	N	517	VAL	2.9
3	I	875	THR	2.9
2	M	445	GLU	2.9
2	M	374	ASN	2.9
3	N	1360	GLY	2.9
7	Z	104	VAL	2.8
3	D	177	ALA	2.8
2	M	70	GLU	2.8
2	M	269	LEU	2.8
2	M	1049	LEU	2.8
4	E	2	ALA	2.8
2	C	950	LEU	2.8
2	H	344	PHE	2.8
3	N	1054	GLU	2.8
2	C	138	SER	2.8
2	H	685	GLU	2.8
2	M	866	PRO	2.8
7	X	15	LEU	2.8
7	Y	100	LEU	2.8
3	N	392	SER	2.8
1	G	213	GLN	2.8
2	M	1059	ASP	2.8
2	H	733	ALA	2.8
2	C	754	ILE	2.8
3	D	470	LEU	2.8
3	N	1149	LEU	2.8
3	N	919	PHE	2.8
2	M	179	ASN	2.7
2	C	275	TYR	2.7
2	M	447	ALA	2.7
3	N	1487	VAL	2.7
2	C	340	MET	2.7
3	I	1311	LEU	2.7
1	A	150	TYR	2.7
3	N	189	GLN	2.7
1	L	226	SER	2.7
3	I	942	SER	2.7
3	N	666	ILE	2.7
2	C	1092	LEU	2.7
4	O	2	ALA	2.7
2	M	570	PRO	2.7
3	N	474	GLU	2.7

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Mol	Chain	Res	Type	RSRZ
2	M	373	VAL	2.7
1	B	38	ASN	2.7
7	X	122	ALA	2.7
3	D	1419	PRO	2.7
3	D	1319	VAL	2.7
3	N	719	VAL	2.7
1	F	170	VAL	2.7
2	C	513	VAL	2.7
3	N	1389	LEU	2.7
2	M	752	GLY	2.7
2	C	1085	PHE	2.7
1	B	163	ASN	2.7
2	H	1006	HIS	2.7
3	I	1301	LYS	2.7
4	O	82	GLU	2.7
3	N	618	LEU	2.7
4	O	92	LEU	2.7
2	C	446	GLY	2.7
2	H	163	ILE	2.6
2	H	1004	LYS	2.6
3	I	161	LEU	2.6
3	I	124	GLU	2.6
3	D	732	VAL	2.6
3	N	450	TYR	2.6
3	I	448	GLU	2.6
3	N	979	GLU	2.6
2	C	501	THR	2.6
2	C	1099	VAL	2.6
3	D	1144	LEU	2.6
3	I	1026	SER	2.6
2	M	1078	GLU	2.6
2	C	450	GLY	2.6
1	L	48	ILE	2.6
3	I	908	LYS	2.6
3	N	1446	VAL	2.6
2	M	180	GLY	2.6
3	D	692	GLU	2.6
2	H	513	VAL	2.6
3	I	1319	VAL	2.6
2	M	222	MET	2.6
3	I	1048	PRO	2.6
2	H	680	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
2	C	914	ILE	2.6
3	I	670	VAL	2.6
3	I	860	LEU	2.6
3	N	762	GLN	2.6
3	N	839	LEU	2.6
2	M	517	ARG	2.6
2	C	641	PRO	2.6
2	H	1032	PHE	2.5
2	H	413	LEU	2.5
3	D	1468	LEU	2.5
3	N	636	GLN	2.5
3	N	1372	VAL	2.5
2	H	675	ALA	2.5
2	H	1000	MET	2.5
3	N	1339	LYS	2.5
2	M	367	LEU	2.5
2	M	1095	LEU	2.5
3	D	1311	LEU	2.5
3	N	1274	ILE	2.5
3	D	1346	ARG	2.5
1	L	163	ASN	2.5
1	F	44	LEU	2.5
2	M	398	THR	2.5
3	D	182	GLY	2.5
2	C	455	LEU	2.5
2	M	101	ILE	2.5
2	H	677	MET	2.5
3	D	647	ARG	2.5
2	M	515	ALA	2.5
3	I	1074	SER	2.5
3	I	991	GLN	2.5
7	Y	41	ASP	2.5
3	N	653	PHE	2.5
3	N	468	LEU	2.5
2	M	611	ILE	2.5
2	C	519	GLY	2.5
2	M	669	GLY	2.5
4	J	65	MET	2.5
3	D	1443	THR	2.5
3	N	1308	GLU	2.5
2	C	680	ASP	2.5
3	N	464	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
2	H	516	ARG	2.5
3	I	162	ARG	2.5
3	D	1000	THR	2.5
1	B	47	SER	2.5
7	X	101	SER	2.5
2	C	266	ARG	2.5
3	N	368	VAL	2.5
2	C	424	GLY	2.5
2	M	1073	GLY	2.5
2	M	1045	ALA	2.5
2	C	979	THR	2.4
2	M	451	LEU	2.4
1	K	182	GLU	2.4
3	D	436	GLU	2.4
3	I	1140	ILE	2.4
3	N	1145	TYR	2.4
2	H	451	LEU	2.4
7	Z	7	LEU	2.4
2	C	267	TYR	2.4
2	H	419	THR	2.4
2	M	258	TYR	2.4
3	D	1193	THR	2.4
2	H	1080	SER	2.4
1	K	170	VAL	2.4
3	I	739	ASP	2.4
2	C	131	GLY	2.4
2	M	457	ALA	2.4
2	C	1097	LEU	2.4
3	D	711	LEU	2.4
3	N	808	THR	2.4
1	A	46	SER	2.4
2	C	1084	SER	2.4
2	M	1109	VAL	2.4
3	N	753	SER	2.4
3	N	810	GLU	2.4
3	N	1376	MET	2.4
1	L	191	ASP	2.4
2	C	1096	ALA	2.4
2	M	33	ASP	2.4
3	I	806	PHE	2.4
1	B	162	ILE	2.4
2	H	448	ASN	2.4

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Mol	Chain	Res	Type	RSRZ
2	M	566	THR	2.4
3	N	97	THR	2.4
3	N	436	GLU	2.4
3	N	1102	THR	2.4
2	M	415	PRO	2.4
2	C	1057	SER	2.4
3	N	571	LYS	2.4
2	H	391	LEU	2.4
3	N	609	GLY	2.4
1	B	191	ASP	2.4
2	H	1075	ASP	2.4
2	H	569	VAL	2.4
3	N	698	LYS	2.4
3	I	557	LEU	2.4
3	I	839	LEU	2.4
2	M	370	ALA	2.4
7	Z	41	ASP	2.4
2	M	524	VAL	2.4
3	D	205	TYR	2.4
3	D	1130	ARG	2.4
2	H	367	LEU	2.4
3	D	1305	LEU	2.4
3	I	846	PRO	2.4
2	H	137	VAL	2.4
3	D	368	VAL	2.4
3	I	409	VAL	2.4
3	N	613	ARG	2.4
1	F	195	LEU	2.4
2	C	180	GLY	2.3
3	I	1063	GLU	2.3
2	H	1087	VAL	2.3
2	M	522	VAL	2.3
7	X	102	VAL	2.3
2	M	659	PRO	2.3
2	M	973	VAL	2.3
7	Y	40	SER	2.3
3	I	397	LYS	2.3
7	X	52	LYS	2.3
3	D	118	LEU	2.3
3	N	470	LEU	2.3
3	N	1322	GLY	2.3
2	C	824	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
3	I	778	LEU	2.3
1	B	27	PRO	2.3
3	N	1317	ASP	2.3
2	H	703	ILE	2.3
3	N	801	GLY	2.3
2	M	565	GLN	2.3
3	N	610	LYS	2.3
3	D	1102	THR	2.3
3	I	468	LEU	2.3
1	A	172	SER	2.3
3	D	128	TYR	2.3
3	I	625	TYR	2.3
2	C	1027	PHE	2.3
2	H	999	HIS	2.3
3	I	772	PRO	2.3
2	M	633	GLN	2.3
2	M	685	GLU	2.3
2	M	855	VAL	2.3
3	I	111	LYS	2.3
3	N	557	LEU	2.3
3	N	1063	GLU	2.3
3	N	1292	VAL	2.3
2	M	418	LEU	2.3
3	I	128	TYR	2.3
3	N	83	SER	2.3
2	C	67	ASP	2.3
2	M	432	ARG	2.3
2	M	1053	LEU	2.3
3	N	850	LEU	2.3
3	N	1132	LEU	2.3
4	O	79	LEU	2.3
2	H	812	GLY	2.3
1	A	53	VAL	2.3
2	C	308	ARG	2.3
2	M	688	ILE	2.2
2	C	1080	SER	2.2
2	M	164	PRO	2.2
3	I	960	LYS	2.2
3	N	111	LYS	2.2
4	E	64	ALA	2.2
7	Y	44	ASP	2.2
2	M	123	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
3	I	692	GLU	2.2
2	H	845	ASN	2.2
1	F	40	LEU	2.2
2	M	882	LEU	2.2
3	I	720	LEU	2.2
3	D	629	SER	2.2
3	D	1023	MET	2.2
3	N	1436	SER	2.2
2	M	999	HIS	2.2
2	M	837	ASP	2.2
3	I	985	ASP	2.2
2	M	726	ILE	2.2
3	I	792	ILE	2.2
2	M	1015	LEU	2.2
2	M	1023	GLY	2.2
2	C	225	SER	2.2
3	I	1103	HIS	2.2
2	M	204	GLN	2.2
3	N	727	GLN	2.2
3	I	155	ASP	2.2
1	G	25	LEU	2.2
1	K	211	LEU	2.2
2	M	655	LEU	2.2
1	F	167	VAL	2.2
2	M	543	ASN	2.2
3	D	967	ALA	2.2
3	I	620	GLY	2.2
3	N	8	VAL	2.2
3	N	1040	GLY	2.2
2	H	1084	SER	2.2
3	I	816	HIS	2.2
3	D	806	PHE	2.2
3	I	1017	PHE	2.2
2	H	996	LYS	2.2
2	M	1004	LYS	2.2
2	C	451	LEU	2.2
3	D	1372	VAL	2.2
3	N	407	VAL	2.2
3	I	950	GLY	2.2
1	G	47	SER	2.2
2	C	114	PHE	2.2
3	I	791	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
3	I	719	VAL	2.2
3	I	1294	VAL	2.2
2	M	266	ARG	2.2
3	D	456	MET	2.2
3	N	1208	ASP	2.2
3	I	643	GLY	2.2
3	D	792	ILE	2.2
3	I	695	ILE	2.2
3	I	199	LEU	2.2
3	I	911	LEU	2.2
3	N	748	HIS	2.2
1	K	144	VAL	2.2
2	H	849	VAL	2.2
3	D	818	ARG	2.2
1	A	202	ASP	2.1
2	M	111	ASP	2.1
3	N	1338	ALA	2.1
3	N	695	ILE	2.1
3	D	1367	HIS	2.1
1	L	66	SER	2.1
2	M	1057	SER	2.1
3	D	955	VAL	2.1
3	I	1281	VAL	2.1
2	M	450	GLY	2.1
2	H	81	ASP	2.1
3	D	170	PRO	2.1
7	Z	44	ASP	2.1
3	I	964	LEU	2.1
3	I	1429	LEU	2.1
3	N	44	LEU	2.1
3	N	1468	LEU	2.1
2	H	2	GLU	2.1
3	D	987	GLU	2.1
2	H	127	PHE	2.1
1	G	168	ASP	2.1
2	H	822	VAL	2.1
2	M	1076	VAL	2.1
3	N	377	VAL	2.1
3	N	999	THR	2.1
4	O	28	GLN	2.1
2	C	960	GLU	2.1
2	H	210	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
3	D	369	ALA	2.1
3	D	705	ALA	2.1
2	C	992	MET	2.1
2	H	432	ARG	2.1
3	N	615	ARG	2.1
3	D	840	LYS	2.1
3	D	1054	GLU	2.1
3	D	1430	SER	2.1
3	I	496	LEU	2.1
3	I	514	LEU	2.1
3	N	680	GLN	2.1
1	G	154	GLU	2.1
2	H	394	PHE	2.1
1	K	142	VAL	2.1
1	F	30	ARG	2.1
3	N	9	ARG	2.1
2	H	654	LEU	2.1
3	N	768	ASN	2.1
3	N	1398	TRP	2.1
2	C	743	VAL	2.1
2	C	222	MET	2.1
2	C	851	LYS	2.1
3	N	12	LEU	2.1
1	G	118	ALA	2.1
1	G	124	ASN	2.1
2	H	417	GLY	2.1
3	N	1146	GLY	2.1
3	N	1364	HIS	2.1
2	H	905	ILE	2.1
3	I	96	ALA	2.1
3	I	507	ASN	2.1
3	I	786	ILE	2.1
3	D	1228	SER	2.1
3	I	436	GLU	2.1
3	N	39	PRO	2.1
3	N	179	VAL	2.1
3	N	347	VAL	2.1
3	N	1101	VAL	2.1
3	I	115	LEU	2.0
3	N	554	LEU	2.0
7	X	44	ASP	2.0
7	Y	129	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
2	H	125	GLY	2.0
3	I	705	ALA	2.0
3	N	889	ALA	2.0
2	M	1100	GLN	2.0
1	B	29	GLU	2.0
2	C	1078	GLU	2.0
3	I	474	GLU	2.0
2	H	161	SER	2.0
3	D	415	VAL	2.0
3	N	159	ARG	2.0
3	N	1086	LEU	2.0
2	C	980	GLY	2.0
2	M	423	ALA	2.0
3	D	788	GLY	2.0
2	H	639	GLN	2.0
3	D	1039	CYS	2.0
3	I	636	GLN	2.0
3	I	90	MET	2.0
3	I	1401	GLU	2.0
3	D	1256	LEU	2.0
2	C	574	ALA	2.0
3	D	140	ALA	2.0
3	I	1110	ALA	2.0
4	J	2	ALA	2.0
2	H	365	ASP	2.0
2	C	587	VAL	2.0
1	F	59	GLU	2.0
2	M	758	ARG	2.0
2	M	1019	GLN	2.0
3	N	623	VAL	2.0
3	I	1362	LYS	2.0
3	N	507	ASN	2.0
2	H	115	LEU	2.0
3	N	983	LEU	2.0
1	F	46	SER	2.0
3	N	941	PHE	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 [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
9	MG	S	2005	1/1	0.42	0.41	115,115,115,115	0
9	MG	N	2006	1/1	0.67	0.30	115,115,115,115	0
8	ZN	N	2001	1/1	0.97	0.04	115,115,115,115	0
9	MG	D	2004	1/1	0.99	0.06	115,115,115,115	0
8	ZN	I	2003	1/1	0.99	0.06	115,115,115,115	0
8	ZN	D	2002	1/1	0.99	0.03	115,115,115,115	0

6.5 Other polymers [i](#)

There are no such residues in this entry.