



Full wwPDB X-ray Structure Validation Report ⓘ

May 29, 2020 – 11:58 am BST

PDB ID : 1SMY
Title : Structural basis for transcription regulation by alarmone ppGpp
Authors : Artsimovitch, I.; Patlan, V.; Sekine, S.; Vassylyeva, M.N.; Hosaka, T.; Ochi, K.; Yokoyama, S.; Vassylyev, D.G.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2004-03-10
Resolution : 2.70 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

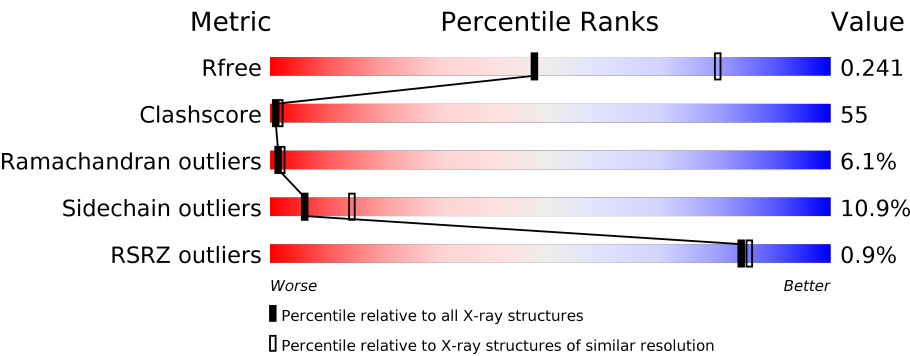
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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}	130704	2808 (2.70-2.70)
Clashscore	141614	3122 (2.70-2.70)
Ramachandran outliers	138981	3069 (2.70-2.70)
Sidechain outliers	138945	3069 (2.70-2.70)
RSRZ outliers	127900	2737 (2.70-2.70)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 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	<div><div>%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>21%44%8%27%</div></div>
1	B	315	<div><div>%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>21%46%5%27%</div></div>
1	K	315	<div><div></div><div><div></div><div></div><div></div><div></div><div></div></div><div>21%46%5%27%</div></div>
1	L	315	<div><div>%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>23%46%.27%</div></div>
2	C	1119	<div><div></div><div><div></div><div></div><div></div><div></div><div></div></div><div>28%59%12%.27%</div></div>
2	M	1119	<div><div>%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>27%62%10%.27%</div></div>

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Mol	Chain	Length	Quality of chain
3	D	1524	<div><div><div></div><div></div><div></div><div></div><div></div></div><div>%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>27%</div><div>53%</div><div>10%</div><div>•</div><div>9%</div></div>
3	N	1524	<div><div><div></div><div></div><div></div><div></div><div></div></div><div>%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>29%</div><div>52%</div><div>9%</div><div>•</div><div>9%</div></div>
4	E	99	<div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div>25%</div><div>58%</div><div>9%</div><div>•</div><div>•</div></div>
4	O	99	<div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div>33%</div><div>51%</div><div>8%</div><div>•</div><div>•</div></div>
5	F	423	<div><div><div></div><div></div><div></div><div></div><div></div></div><div>2%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>22%</div><div>50%</div><div>8%</div><div>•</div><div>18%</div></div>
5	P	423	<div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div>21%</div><div>52%</div><div>7%</div><div>18%</div></div>

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 63021 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 alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	B	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	K	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			
1	L	229	Total	C	N	O	S	0	0	0
			1806	1153	313	337	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1119	Total	C	N	O	S	0	0	0
			8828	5581	1577	1646	24			
2	M	1119	Total	C	N	O	S	0	0	0
			8828	5581	1577	1646	24			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1392	Total	C	N	O	S	0	0	0
			10797	6819	1925	2020	33			
3	N	1392	Total	C	N	O	S	0	0	0
			10797	6819	1925	2020	33			

- Molecule 4 is a protein called RNA POLYMERASE OMEGA SUBUNIT.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			
4	O	95	Total	C	N	O	S	0	0	0
			769	488	133	144	4			

- Molecule 5 is a protein called principal sigma factor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	345	Total	C	N	O	S	0	0	0
			2770	1744	504	518	4			
5	P	345	Total	C	N	O	S	0	0	0
			2770	1744	504	518	4			

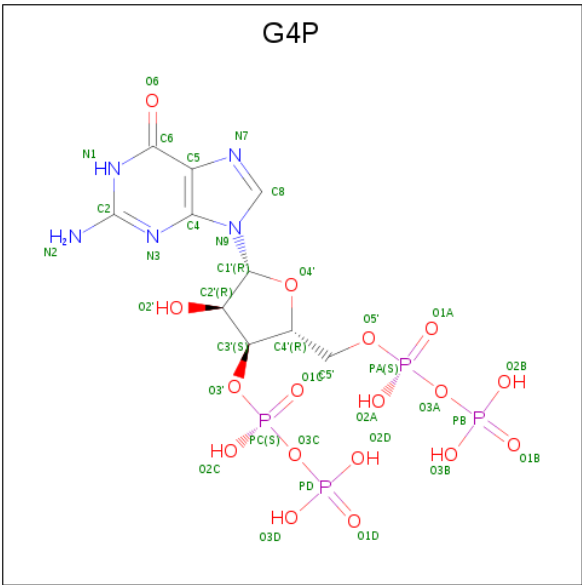
- Molecule 6 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	D	150	Total	Mg	0	0
			150	150		
6	E	17	Total	Mg	0	0
			17	17		
6	B	22	Total	Mg	0	0
			22	22		
6	C	92	Total	Mg	0	0
			92	92		
6	A	29	Total	Mg	0	0
			29	29		
6	N	2	Total	Mg	0	0
			2	2		
6	F	49	Total	Mg	0	0
			49	49		
6	M	1	Total	Mg	0	0
			1	1		

- Molecule 7 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	D	2	Total	Zn	0	0
			2	2		
7	N	2	Total	Zn	0	0
			2	2		

- Molecule 8 is GUANOSINE-5',3'-TETRAPHOSPHATE (three-letter code: G4P) (formula: C₁₀H₁₇N₅O₁₇P₄).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
8	N	1	Total	C	N	O	P	0	0
			36	10	5	17	4		
8	N	1	Total	C	N	O	P	0	0
			36	10	5	17	4		

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	296	Total	O	0	0
			296	296		
9	B	307	Total	O	0	0
			307	307		
9	C	1308	Total	O	0	0
			1308	1308		
9	D	1745	Total	O	0	0
			1745	1745		
9	E	160	Total	O	0	0
			160	160		
9	F	619	Total	O	0	0
			619	619		
9	K	316	Total	O	0	0
			316	316		
9	L	341	Total	O	0	0
			341	341		
9	M	1401	Total	O	0	0
			1401	1401		
9	N	1794	Total	O	0	0
			1794	1794		

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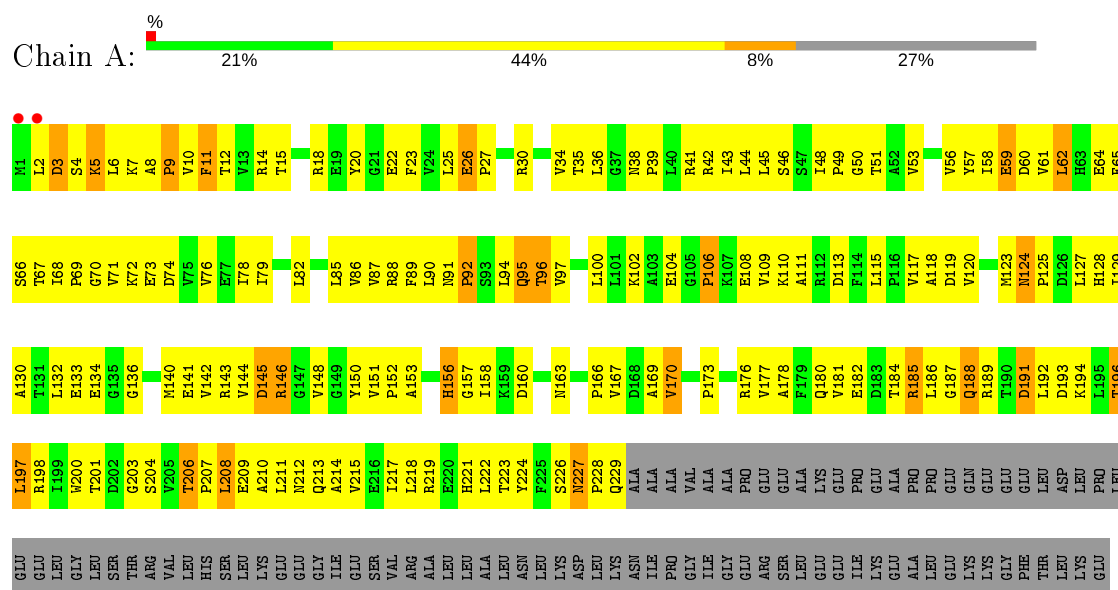
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	O	203	Total 203	O 203	0	0
9	P	541	Total 541	O 541	0	0

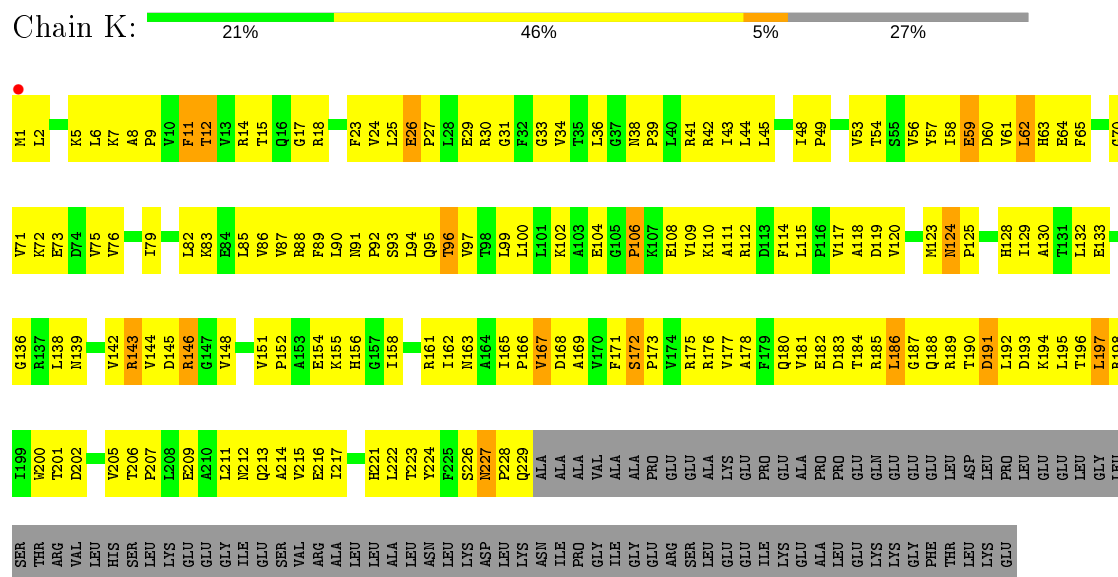
3 Residue-property plots

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

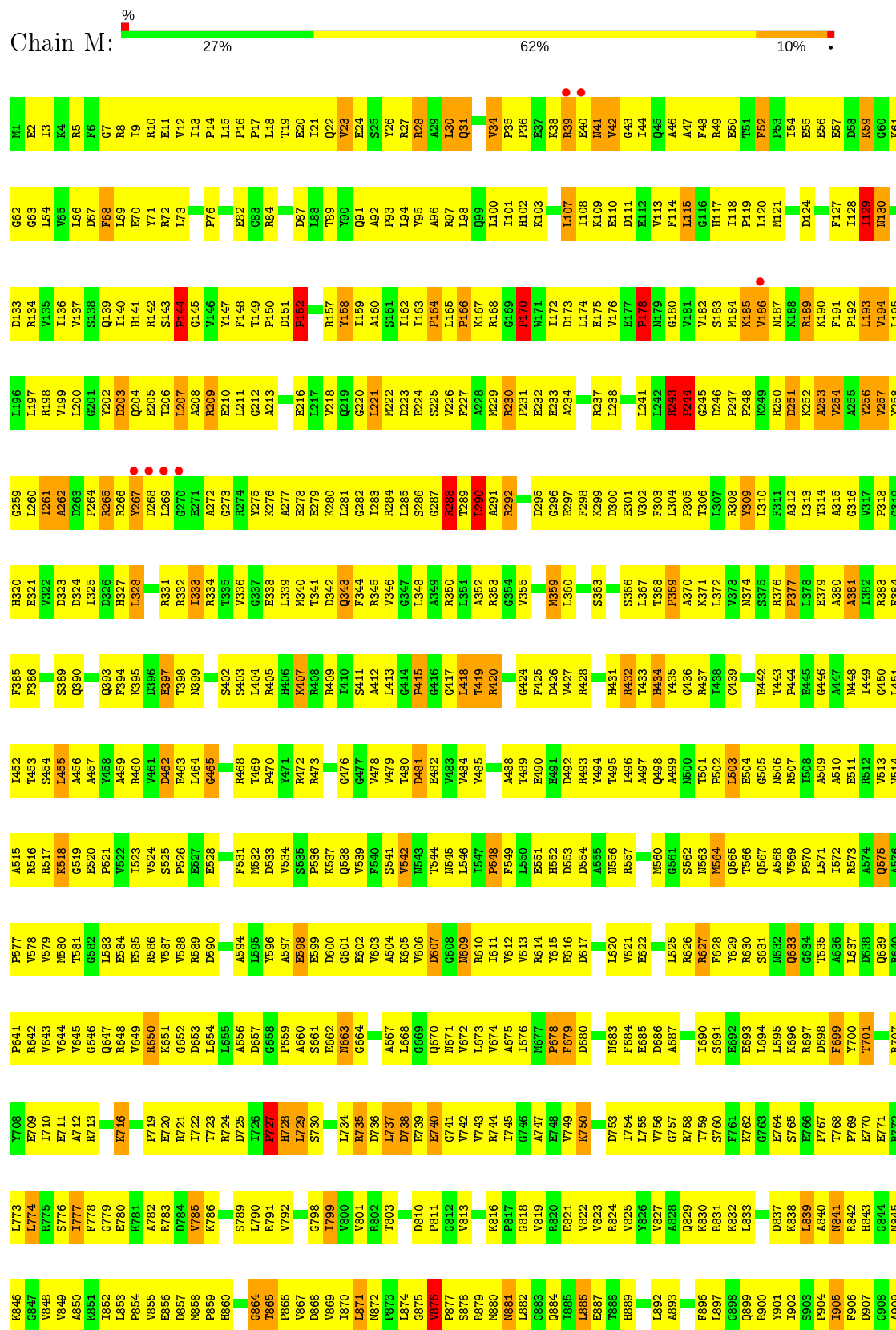


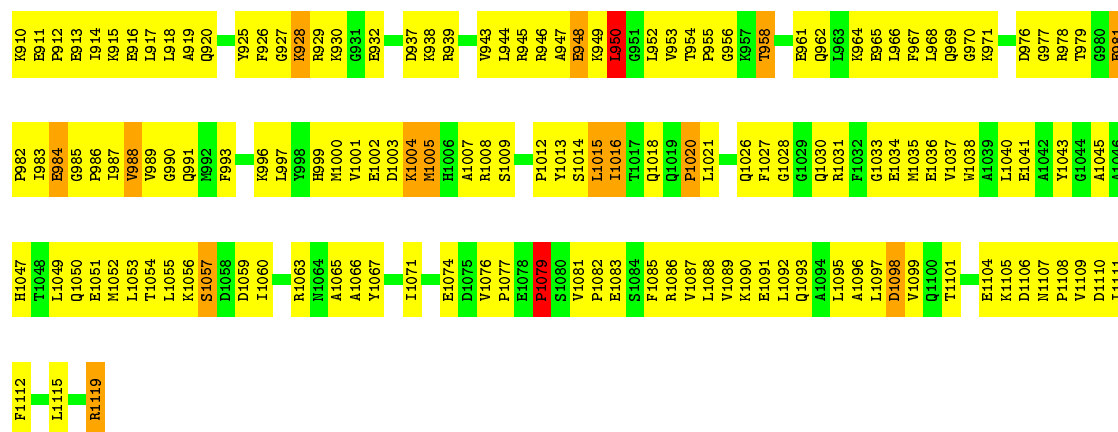
- Molecule 1: DNA-directed RNA polymerase alpha chain



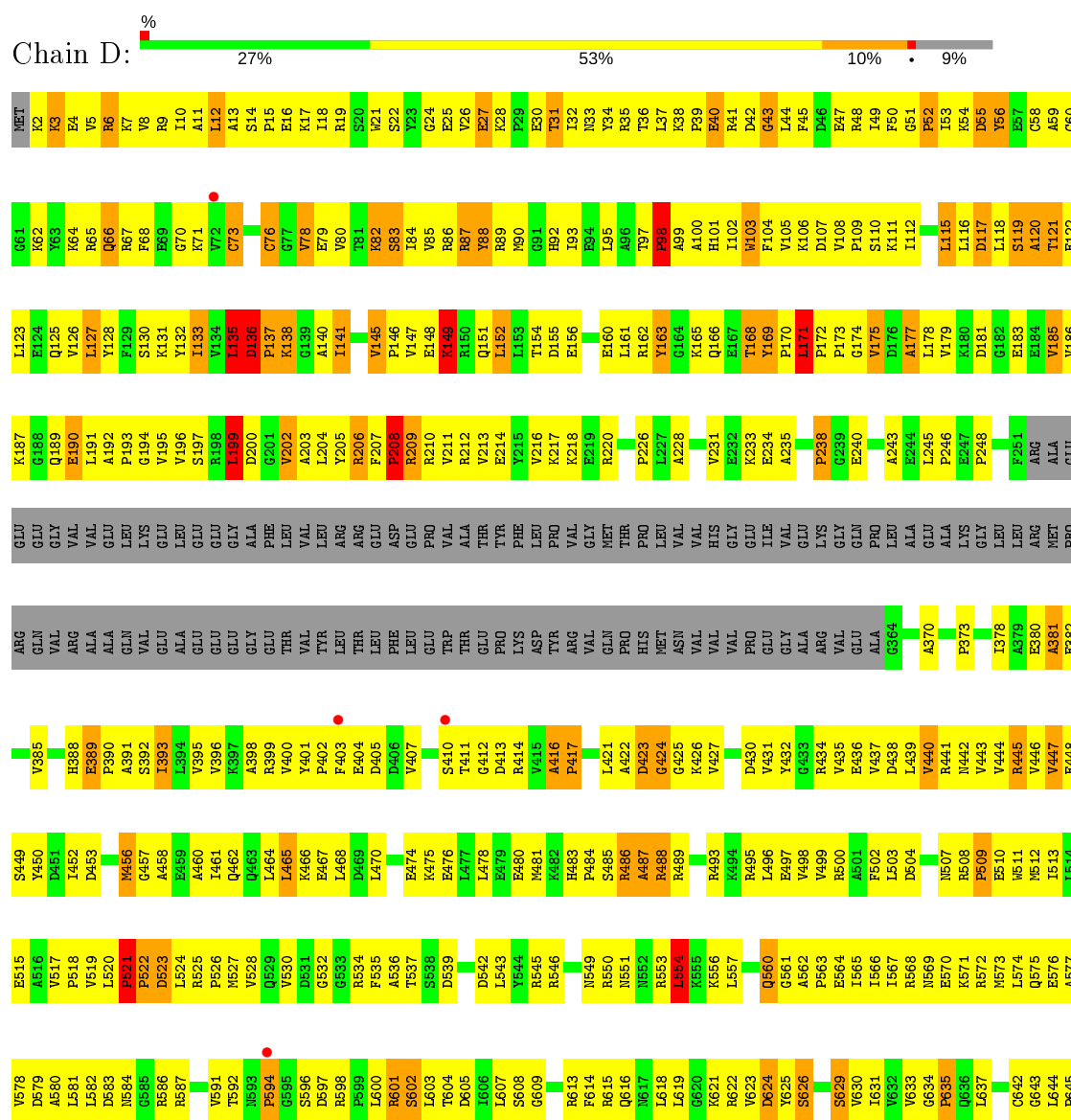
D1110	I1111	A1039	Q969	F906	G646	V578	B512	L451	R388	I325	Y256	L193	I128
E1112	F1112	H1047	G970	D907	Q647	V579	V513	I452	S389	D326	V257	V194	I129
G1114	L1115	T1049	K971	G908	R648	M580	V514	T453	Q390	G259	G258	L195	M130
			Y975	A909	E780		G718	S454	L391	L455	L260	L196	D133
			D976	G910	K781	L583	R517	L455	S392	G329	I261	L197	D134
			G977	B911	G651	E584	K518	A456	Q393	N330	A262	R198	R133
			R978	P912	G652	E585	G519	A457	F394	R331	D263	L199	V135
				E913	A656	R587	B520	Y458	K395	R332	P264	L200	I136
				L914	D657	V588		A459	D396	I333	P265	G201	I137
				K915	A660	D590	I523	V461	S402	R334	R266	Y202	S138
				E916	S661	S591	S525	E463	L404	I335	R265	Q204	Q139
				L917	G664	A594	P526	F466	S403	T335	Y267	Q204	I140
				G918	F665	L595	E527	F467	L405	R336	D268	E205	H141
				A919	L666	Y596	V529	T467	H406	G337	L269	T266	R142
				L918	L667	A597	E530	T469	R407	E338		L207	S143
				E919	L668	E598	F531	P470	R408	L339		A208	P144
				Q920	G669	E599	M532	Y471	R409	I340		Q210	G145
				A921	Q670	D600	D533	R472	S411	R341		E216	E210
				F922	M671	G601	V534	R473	R473	T342		L217	V146
					L672	B602	S535	V474	A412	D342		G212	Y147
					L673	V603	P536	V475	A413	Q343		A213	F148
					V674	A604	K537	G476	L413	F344		E216	P150
					A675	K685	Q538	G477	G414	A349		L218	P152
					L676	V606	V539	G477	P415	R350		Q219	R157
					M677	D607	F540	V478	G416	L351		G220	Y158
					P678	G608	S541	V479	A352	R352		L221	I159
					F679	N609	V542	T480	L418	R353		M222	A160
					G746	R610	N543	D481	T419	G354		D223	A160
					L747	L611	T544	E421	R420	V355		E224	I162
					M682	V612	M545	R422	T480	R356		S225	I163
					F683	G613	L546	V482	T480	E357		V226	P164
					E685	R614	L547	Y484	R292	R358		F227	L165
					D686	V615	P548	Y485	G424	M359		A228	P166
					A687	E616	F549		F425	K167		M229	K167
					L688	L620	L550	A488	D426	D294		R230	R168
					V689	V621	H551	T489	V427	G296		G169	G169
					L690	B622	H552	E490	R428	E297		P231	P170
					E693	L625	R557	D491	V430	D300		E232	M171
					L694	R626	A558	D492	H431	I172		E233	I172
					K695	R627	L559	Y494	R432	D173		R237	D173
					R697	F628	M560	T495	H433	L174		L238	L174
					F699	S631	M564	Q497	T433	P369		P239	E175
					T700	N632	Q565	A498	H434	A370		L241	V176
					T701	L632	T566	Q499	Q436	L372		L242	E177
					S702	A636	Q567	T501	R437	N374		P178	P178
					L703	L637	A568	P502	I438	S375		R243	N179
					H704	D638	V569	L503	C439	R307		P244	G180
					R707	R640	L571	P503	P440	Y309		G245	V181
					E710	R642	L572	A508	V441	A312		D246	V182
					E711	V643	R573	A509	E442	L313		P247	S183
					D714	V644	A574	A510	T443	L314		P248	M184
							Q575	E511	G505	T314		K249	K185
							P577		L571	A315		R250	A186
									T445	G316		D251	N187
									E446	R382		K252	K188
									G446	E384		A253	K190
									I449	F385		E254	K190
									G450	S387		A255	

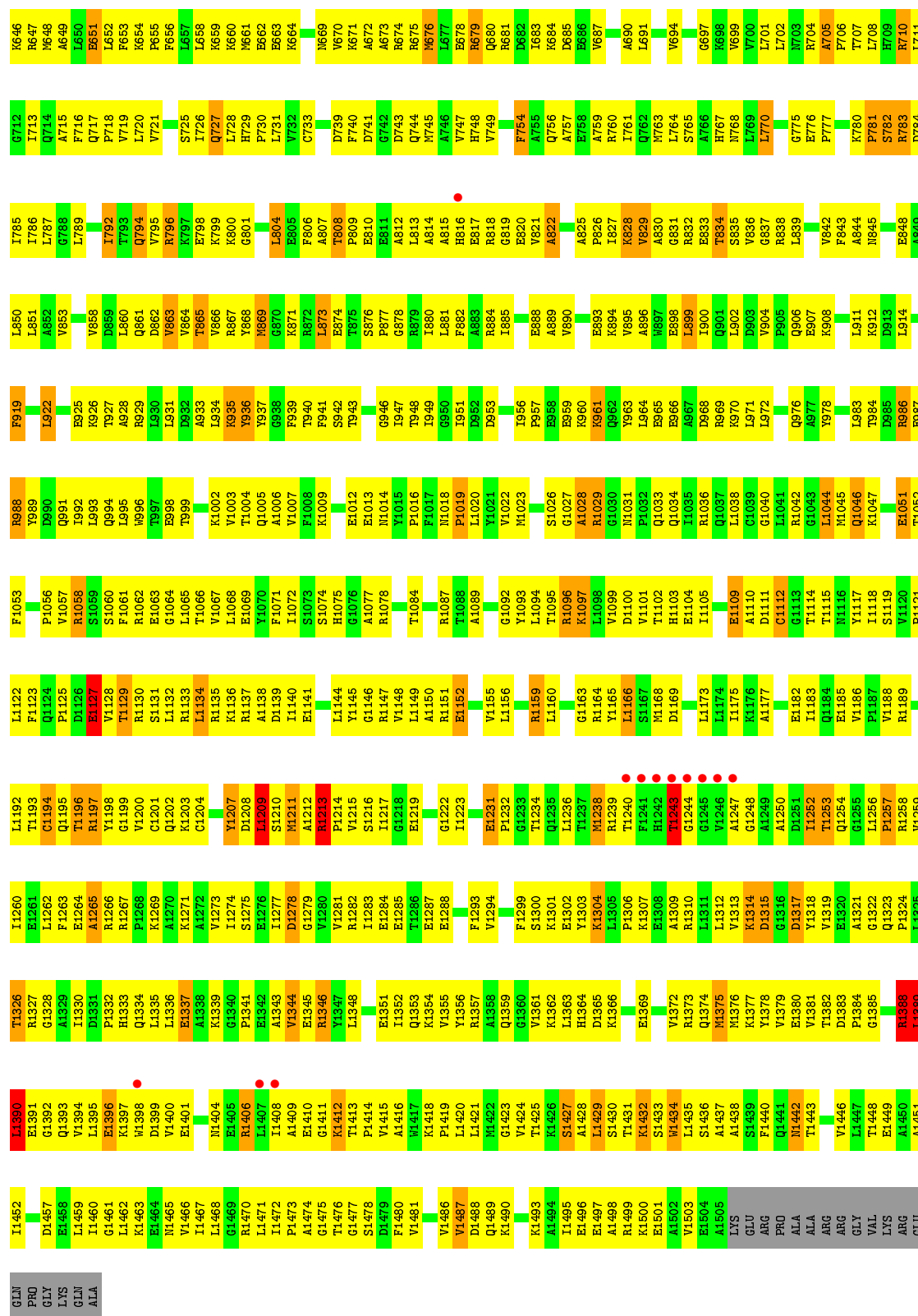
● Molecule 2: DNA-directed RNA polymerase beta chain





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





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



1992	A918	L850	G788	V719	L652	G585	A516	D453	I393	ALA	LEU	G188	Q125	K64	MET
1993	F919	L851	L789	L720	F653	R586	F517	A454	L394	GLU	GLU	Q189	V126	K65	K2
Q994	L920	A952	L792	V721	K654	R587	P518	R455	V395	GLU	GLU	E190	L127	K66	K3
1995	R921	G851	G792	E722	P655	G588	P519	V396	V396	GLY	GLY	L191	F128	R67	E4
W996	L922	A854	T793	G723	F656	A589	L520	Q457	K397	GLY	ALA	A192	F129	F68	V5
E998	E925	V858	G794	Q724	L657	P590	P921	A458	A398	GLU	PHE	P193	S130	R69	R6
T999	K926	D859	V795	L728	K658	P592	P522	E459	R399	THR	LEU	G194	K131	G70	K7
T1000	T927	L860	R796	H729	K660	G595	D523	A460	V400	VAL	VAL	V195	Y132	K71	V8
E1001	E928	Q861	K797	E729	G660	G596	L524	I461	Y401	TYR	LEU	V196	I133	V72	R9
R929	R929	E798	E798	E729	M661	S596	P525	Q462	P402	LEU	ARG	S197	V134	C73	I10
L930	R929	K800	K799	V732	E662	D597	P526	Q463	F403	THR	ARG	L135	E74	E74	A11
T1003	K863	V863	G800	G733	E663	R598	M527	L464	E494	LEU	GLU	L192	D136	K75	L12
T1004	G801	V864	G801	E734	K664	P599	V528	L465	D495	PHE	ASP	D200	P137	C76	A13
Q1005	G801	T865	G801	A735	G665	L600	F535	K466	D496	LEU	GLU	G201	K138	G77	S14
A1006	R935	V865	L804	F736	M669	R601	F536	E457	V497	GLU	PRO	V202	G139	V78	P15
V1007	F936	R867	E805	M737	V670	S602	A536	L468	E408	TRP	VAL	A203	A140	E79	E16
F1008	F937	T868	F806	A738	K671	L603	T537	D469	V409	THR	ALA	L204	I141	V80	K17
F939	F939	M869	A807	D739	A672	T604	S538	L470	S410	GLU	THR	Y205	I142	T81	I18
T1010	G870	G870	T808	D739	A673	D605	D539	E471	T411	PRO	TYR	R206	I143	K82	R19
F1011	K871	K871	P809	D743	R674	I606	L543	A472	Q412	LYS	PHE	F207	G144	S83	S20
E1012	R872	R872	E810	Q744	R675	L607	L544	L473	D413	LEU	ASP	F208	V145	184	W21
E1013	L873	L873	E811	M745	M676	S608	V544	E474	R414	TYR	PRO	R209	P146	V85	S22
S945	S945	E874	A812	A746	G609	G609	R545	K475	V415	ARG	VAL	R210	V147	R86	Y23
Y1015	G946	T875	L813	V747	R679	K610	R546	E476	A416	VAL	GLY	V211	E148	R87	G24
P1016	G946	S876	A814	H748	Q680	O611	I547	L477	P417	GLN	MET	R212	K143	V88	E25
F1017	T948	P877	A815	V749	R681	G612	I548	L478	Q418	PRO	THR	V213	R150	R89	V26
P1018	R816	G878	E817	P750	D682	R613	M549	E479	D419	HIS	PRO	E214	Q151	R90	E27
M1019	R879	R879	L751	L751	F683	F614	R550	E480	V420	MET	LEU	Y215	L152	G91	E30
L1020	D952	I880	R818	S752	K684	R614	M551	M481	L421	ASN	VAL	V216	T154	R92	T31
Y021	D953	G819	G819	S753	D685	L619	M552	P484	A422	VAL	VAL	K217	D155	I93	I32
V1022	A954	E820	E820	F754	E686	G620	R553	P484	D423	VAL	HIS	K221	E156	E94	I33
M1023	R955	V821	V821	A755	R687	K621	L554	S485	Q424	VAL	GLY	A221	E157	L95	I33
A1024	A956	A822	A822	Q756	E688	R622	K555	R486	Q425	PRO	GLY	V231	K165	A100	K38
Q1025	P957	E888	L823	A757	D689	V623	K556	A487	K426	GLU	ILE	P226	Q166	H101	E40
E958	E958	A889	N824	E758	A690	D624	L557	R488	V427	GLY	VAL	L227	E167	I102	R41
G1027	E959	V890	A825	A759	L691	V625	L558	R489	K428	ALA	ARG	Y231	L161	F98	T36
A1028	E991	E891	P826	R760	E692	K638	A559	A490	S429	ALA	LYS	V231	R162	A99	L37
R1029	E992	E892	I827	R763	E693	R628	Q580	D430	V430	VAL	GLY	E232	K165	A100	K38
G1030	T963	E893	K828	L764	V694	S629	G561	R493	V432	GLU	GLN	E232	Q166	H101	P39
M1031	L964	F994	V829	L764	V630	V630	G561	K494	Y432	ALA	PRO	E234	E167	I102	E40
E965	E965	V895	A830	S765	K698	I631	I565	R495	Q433	G364	LEU	R233	T168	M103	R41
Q1033	E966	A896	G831	A766	V699	V632	I566	L496	R434	ALA	ALA	Q239	Y169	F104	D42
Q1034	A967	V897	R832	H767	V700	V633	I567	E497	V435	GLU	ALA	G239	P170	V105	G43
T1035	D968	E998	E983	N768	L701	G634	R568	V498	E436	ALA	ALA	G239	P171	D107	F45
A1036	R969	L899	T834	L769	L702	P635	R569	V499	V437	LYS	LYS	L245	P172	V108	D46
Q1037	R970	I900	S835	L770	N703	Q636	E570	R500	D438	GLY	GLY	P246	P173	P109	E47
L1038	Q901	L902	V836	P772	R704	L637	K571	A501	L439	LEU	LEU	F251	G174	S110	F50
Q1039	L971	L902	G837	P772	A705	K638	R572	F502	V440	ARG	ARG	D251	D175	I149	G51
G1040	I974	D903	R838	A773	P706	K638	M573	L503	R441	THR	MET	ALA	A177	G51	P52
L1041	E975	V904	L839	S774	T707	O641	L574	D504	I442	PRO	PRO	ALA	L178	L145	D55
R1042	P905	P905	K840	S774	L703	O642	Q575	V443	V443	ARG	ARG	GLU	L178	L146	D55
L983	Q906	Q906	T841	P777	H709	G643	E576	M507	V444	ARG	ARG	GLU	V179	D117	D55
T984	E907	E907	V842	L644	R710	L644	A577	R508	R445	GLN	GLN	GLU	K180	D117	D55
M1045	K908	K908	F843	P781	L711	P645	V578	R446	V446	VAL	VAL	GLY	D181	L118	D55
Q1046	R909	R909	G845	S782	G712	K646	E510	V447	V447	ARG	ARG	VAL	G182	S119	C58
K1047	E987	S910	N845	R783	I713	R647	A511	M511	E448	ALA	ALA	VAL	E183	A120	A59
F1048	R988	L911	F846	D784	Q714	K648	L581	M512	S449	ALA	ALA	GLU	E184	T121	C60
G1049	R989	R912	E847	I785	A716	K649	L582	I513	Y450	GLN	GLN	LEU	V185	E122	G61
E1050	R990	F716	E848	I786	F716	L650	D583	L514	D451	VAL	VAL	LYS	V186	L123	K62
E1051	Q991	Q917	A849	L787	G694	E651	M584	E515	I452	GLU	GLU	GLU	K187	E124	Y63



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	236.35Å 236.35Å 249.04Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	40.00 – 2.70 50.12 – 2.71	Depositor EDS
% Data completeness (in resolution range)	(Not available) (40.00-2.70) 97.1 (50.12-2.71)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.06 (at 2.73Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.186 , 0.266 0.186 , 0.241	Depositor DCC
R_{free} test set	14873 reflections (3.64%)	wwPDB-VP
Wilson B-factor (Å ²)	51.1	Xtriage
Anisotropy	0.058	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.22 , 59.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.38$, $\langle L^2 \rangle = 0.20$	Xtriage
Estimated twinning fraction	0.499 for -h,-k,l 0.086 for h,-h-k,-l 0.086 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	63021	wwPDB-VP
Average B, all atoms (Å ²)	72.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.68% of the height of the origin peak. No significant pseudotranslation is detected.*

¹ Intensities estimated from amplitudes.

² Theoretical 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: G4P, ZN, MG

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	0.68	0/1838	0.70	0/2498
1	B	0.68	0/1838	0.68	0/2498
1	K	0.68	0/1838	0.72	1/2498 (0.0%)
1	L	0.68	0/1838	0.67	1/2498 (0.0%)
2	C	0.75	0/8996	0.79	4/12164 (0.0%)
2	M	0.74	0/8996	0.78	4/12164 (0.0%)
3	D	0.74	0/10975	0.81	10/14836 (0.1%)
3	N	0.73	0/10975	0.81	14/14836 (0.1%)
4	E	0.74	0/783	0.81	0/1054
4	O	0.75	0/783	0.81	0/1054
5	F	0.65	0/2811	0.75	1/3781 (0.0%)
5	P	0.64	0/2811	0.74	1/3781 (0.0%)
All	All	0.72	0/54482	0.78	36/73662 (0.0%)

There are no bond length outliers.

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	243	ARG	C-N-CD	-9.21	100.34	120.60
3	D	199	LEU	CA-CB-CG	-8.95	94.72	115.30
3	N	199	LEU	CA-CB-CG	-8.85	94.94	115.30
1	K	197	LEU	CA-CB-CG	8.22	134.21	115.30
2	C	243	ARG	C-N-CD	-7.23	104.69	120.60
3	D	804	LEU	CA-CB-CG	6.65	130.59	115.30
5	P	136	LEU	CA-CB-CG	6.29	129.78	115.30
2	M	950	LEU	CA-CB-CG	6.07	129.27	115.30
5	F	84	TYR	CA-CB-CG	6.06	124.92	113.40
3	N	783	ARG	NE-CZ-NH2	6.00	123.30	120.30
3	D	783	ARG	NE-CZ-NH1	5.99	123.29	120.30
3	N	813	LEU	CA-CB-CG	5.64	128.28	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	197	LEU	CA-CB-CG	5.56	128.10	115.30
2	M	193	LEU	CA-CB-CG	5.53	128.02	115.30
3	N	1290	LEU	CA-CB-CG	5.53	128.01	115.30
3	D	238	PRO	N-CA-CB	5.48	109.88	103.30
3	D	554	LEU	CA-CB-CG	5.44	127.81	115.30
2	M	244	PRO	CA-N-CD	-5.42	103.91	111.50
3	N	1201	CYS	CA-CB-SG	-5.36	104.34	114.00
2	C	853	LEU	CA-CB-CG	5.34	127.58	115.30
3	D	73	CYS	CA-CB-SG	5.32	123.58	114.00
3	N	1068	LEU	CA-CB-CG	-5.29	103.12	115.30
2	C	269	LEU	CA-CB-CG	5.27	127.42	115.30
3	N	171	LEU	CA-CB-CG	5.26	127.40	115.30
3	N	238	PRO	N-CA-CB	5.22	109.57	103.30
3	N	1209	LEU	N-CA-C	-5.18	97.02	111.00
3	N	705	ALA	C-N-CD	5.17	139.25	128.40
3	D	226	PRO	N-CA-CB	5.16	109.49	103.30
3	D	248	PRO	N-CA-CB	5.14	109.47	103.30
3	D	1209	LEU	N-CA-C	-5.11	97.21	111.00
3	N	710	ARG	NE-CZ-NH2	-5.10	117.75	120.30
3	N	373	PRO	N-CA-CB	5.09	109.41	103.30
2	C	559	LEU	CA-CB-CG	5.09	127.00	115.30
3	D	171	LEU	CA-CB-CG	5.08	126.99	115.30
3	N	136	ASP	C-N-CD	5.08	139.07	128.40
3	N	226	PRO	N-CA-CB	5.07	109.38	103.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	211	0
1	B	1806	0	1861	191	0
1	K	1806	0	1861	196	0
1	L	1806	0	1861	183	0
2	C	8828	0	8933	1013	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	M	8828	0	8933	1065	0
3	D	10797	0	10873	1260	0
3	N	10797	0	10873	1227	0
4	E	769	0	775	104	0
4	O	769	0	775	96	0
5	F	2770	0	2844	327	0
5	P	2770	0	2844	363	0
6	A	29	0	0	0	0
6	B	22	0	0	0	0
6	C	92	0	0	0	0
6	D	150	0	0	0	0
6	E	17	0	0	0	0
6	F	49	0	0	0	0
6	M	1	0	0	0	0
6	N	2	0	0	0	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	N	72	0	22	9	0
9	A	296	0	0	67	0
9	B	307	0	0	66	0
9	C	1308	0	0	281	0
9	D	1745	0	0	322	0
9	E	160	0	0	37	0
9	F	619	0	0	99	0
9	K	316	0	0	72	0
9	L	341	0	0	64	0
9	M	1401	0	0	325	0
9	N	1794	0	0	330	0
9	O	203	0	0	33	0
9	P	541	0	0	96	0
All	All	63021	0	54316	5952	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 55.

All (5952) 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)
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.28	1.11
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.33	1.10
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.34	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:N:9100:G4P:H5"	8:N:9100:G4P:H8	1.14	1.09
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.35	1.08
2:C:328:LEU:HD13	2:C:433:THR:HB	1.37	1.07
3:D:95:LEU:HD11	3:D:517:VAL:HG23	1.34	1.05
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.40	1.04
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.38	1.03
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.39	1.01
3:N:908:LYS:HB2	3:N:1027:GLY:HA3	1.41	1.01
3:N:172:PRO:HB3	3:N:178:LEU:HB3	1.43	1.01
2:C:577:PRO:HA	2:C:671:ASN:HD21	1.24	1.00
2:M:829:GLN:HE21	2:M:831:ARG:HD3	1.24	1.00
2:M:892:LEU:HD23	2:M:918:LEU:HD11	1.41	1.00
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.42	0.99
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.44	0.99
2:M:546:LEU:HD12	2:M:565:GLN:HE22	1.26	0.99
3:D:1209:LEU:HD12	3:D:1210:SER:H	1.29	0.98
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.42	0.98
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.43	0.98
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.47	0.97
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.48	0.96
3:D:489:ARG:HG3	3:D:493:ARG:HH12	1.29	0.95
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.28	0.95
4:O:40:LEU:HD21	4:O:67:GLU:HA	1.46	0.95
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.48	0.95
2:C:627:ARG:H	2:C:627:ARG:HE	1.05	0.94
3:D:1389:LEU:HG	3:D:1390:LEU:HD23	1.48	0.94
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.48	0.94
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.48	0.94
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.47	0.94
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.47	0.94
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.50	0.94
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.48	0.94
3:D:1388:ARG:H	3:D:1388:ARG:HD2	1.29	0.93
3:D:1304:LYS:H	3:D:1304:LYS:HD3	1.33	0.93
2:M:777:ILE:HG23	5:P:409:LYS:HB2	1.50	0.93
3:N:1101:VAL:HG22	3:N:1428:ALA:HB2	1.51	0.93
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.51	0.92
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.49	0.92
3:D:787:LEU:HD21	3:D:947:ILE:HD11	1.49	0.92
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.52	0.92
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.53	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:710:ILE:HD11	2:C:758:ARG:HE	1.33	0.91
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.51	0.91
3:D:489:ARG:HE	3:D:493:ARG:HH22	1.18	0.91
2:M:95:TYR:HD2	2:M:114:PHE:HB3	1.37	0.91
3:N:32:ILE:HD12	3:N:527:MET:HG2	1.53	0.91
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.52	0.90
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.52	0.90
2:M:331:ARG:HH12	2:M:427:VAL:HG13	1.37	0.90
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.34	0.90
3:N:1137:ARG:H	3:N:1137:ARG:HD2	1.35	0.89
2:C:945:ARG:HB2	2:C:945:ARG:HH11	1.36	0.89
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.54	0.89
2:C:711:GLU:HG2	2:C:822:VAL:HG12	1.53	0.89
3:D:154:THR:HB	9:D:3232:HOH:O	1.72	0.89
3:D:87:ARG:HG3	3:D:88:TYR:H	1.38	0.89
2:C:405:ARG:HH21	2:C:566:THR:HG21	1.34	0.89
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.38	0.89
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.55	0.89
2:C:405:ARG:HH12	2:C:409:ARG:HH21	1.21	0.88
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.56	0.88
2:M:853:LEU:HD23	2:M:858:MET:HB3	1.52	0.88
2:C:207:LEU:HD22	2:C:221:LEU:HD21	1.56	0.88
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.53	0.88
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.56	0.88
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.39	0.88
2:C:938:LYS:HB3	2:C:939:ARG:HH21	1.39	0.88
9:K:4396:HOH:O	2:M:978:ARG:HA	1.74	0.87
1:L:57:TYR:HB3	1:L:141:GLU:HG3	1.55	0.87
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.55	0.87
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.56	0.87
3:N:65:ARG:HB2	5:P:375:LEU:HA	1.54	0.87
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.54	0.87
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.56	0.86
2:M:148:PHE:HB3	2:M:313:LEU:HD22	1.57	0.86
2:M:690:ILE:HB	2:M:852:ILE:HD13	1.56	0.86
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.55	0.86
5:P:252:ALA:HB1	5:P:265:VAL:HG21	1.58	0.86
3:N:646:LYS:HA	3:N:720:LEU:HD22	1.55	0.86
3:N:98:PRO:HG2	3:N:462:GLN:HE22	1.38	0.86
5:P:135:ILE:HD11	5:P:178:ARG:HD3	1.58	0.85
2:C:841:ASN:HD21	2:C:845:ASN:H	1.23	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.58	0.85
3:D:119:SER:HB2	3:D:123:LEU:H	1.41	0.85
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.58	0.85
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.57	0.85
3:N:172:PRO:HG3	3:N:178:LEU:HD22	1.59	0.85
3:D:44:LEU:HB2	9:D:9962:HOH:O	1.77	0.85
3:N:1389:LEU:H	3:N:1389:LEU:HD23	1.40	0.85
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.57	0.85
3:N:1090:ASP:HB3	3:N:1093:TYR:HB2	1.57	0.85
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.58	0.85
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.57	0.84
8:N:9100:G4P:C8	8:N:9100:G4P:H5"	2.04	0.84
2:M:1097:LEU:HD22	2:M:1097:LEU:H	1.42	0.84
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.57	0.84
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.59	0.84
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.59	0.84
3:N:67:ARG:HD3	5:P:375:LEU:HD11	1.58	0.84
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.60	0.84
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.60	0.84
3:D:679:ARG:HH12	3:D:681:ARG:HD2	1.44	0.83
3:D:85:VAL:HB	3:D:89:ARG:HE	1.44	0.83
2:M:536:PRO:HB3	2:M:906:PHE:HD1	1.39	0.83
2:M:265:ARG:HA	9:M:9500:HOH:O	1.78	0.83
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.61	0.83
3:N:119:SER:H	3:N:123:LEU:HD22	1.43	0.83
2:C:1109:VAL:HG11	3:D:5:VAL:HG22	1.61	0.83
1:L:206:THR:HG22	1:L:209:GLU:HB2	1.61	0.83
2:M:136:ILE:HA	9:M:9466:HOH:O	1.79	0.82
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.61	0.82
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.41	0.82
5:P:142:ARG:HB3	5:P:142:ARG:HH11	1.42	0.82
3:D:890:VAL:HG13	3:D:926:LYS:HD3	1.60	0.82
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.59	0.82
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.62	0.82
3:D:6:ARG:NH1	3:D:6:ARG:HB3	1.95	0.82
2:M:266:ARG:HD3	2:M:288:ARG:HH12	1.44	0.82
2:M:498:GLN:HG3	2:M:516:ARG:HH21	1.44	0.81
2:M:841:ASN:HD21	2:M:845:ASN:H	1.23	0.81
4:E:76:GLY:HA3	4:E:79:LEU:HD13	1.62	0.81
2:M:650:ARG:H	2:M:650:ARG:HE	1.25	0.81
3:N:141:ILE:HD13	3:N:450:TYR:H	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:180:GLN:HE22	2:C:934:PHE:HB2	1.44	0.81
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.62	0.81
2:C:238:LEU:HA	2:C:241:LEU:HD12	1.63	0.81
3:D:212:ARG:HB2	3:D:445:ARG:HH22	1.45	0.81
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.61	0.81
2:M:89:THR:HG23	2:M:129:ILE:HA	1.62	0.81
3:N:175:VAL:HG12	9:N:2205:HOH:O	1.80	0.81
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.60	0.81
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.61	0.81
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.62	0.81
3:N:422:ALA:HB1	5:P:178:ARG:NH1	1.96	0.81
2:C:89:THR:HG23	2:C:129:ILE:HA	1.59	0.81
2:C:244:PRO:HD2	2:C:245:GLY:H	1.42	0.81
2:C:139:GLN:HE22	2:C:415:PRO:HD2	1.45	0.81
1:K:112:ARG:HG2	9:K:1330:HOH:O	1.80	0.81
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.61	0.81
2:C:1054:THR:HA	9:C:9720:HOH:O	1.80	0.81
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.62	0.81
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.63	0.81
3:N:565:ILE:H	3:N:565:ILE:HD12	1.45	0.81
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.61	0.81
3:D:780:LYS:HD3	3:D:912:LYS:HD3	1.61	0.81
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.61	0.81
3:N:800:LYS:HG2	3:N:829:VAL:HG12	1.62	0.81
2:C:704:HIS:HB3	2:C:829:GLN:HE21	1.45	0.81
3:N:414:ARG:HD3	9:N:9486:HOH:O	1.81	0.80
3:N:116:LEU:HB3	3:N:118:LEU:HD13	1.63	0.80
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.61	0.80
3:D:704:ARG:HD2	3:D:705:ALA:H	1.47	0.80
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.64	0.80
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.61	0.80
2:C:971:LYS:HA	2:C:988:VAL:HA	1.62	0.80
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.61	0.80
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.64	0.80
2:M:238:LEU:HD23	2:M:241:LEU:HD12	1.64	0.80
3:N:899:LEU:HB2	3:N:917:GLN:HG2	1.61	0.80
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.63	0.80
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.64	0.80
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.61	0.80
3:D:210:ARG:HD2	3:D:398:ALA:HB3	1.64	0.80
2:M:192:PRO:HB2	2:M:195:LEU:HD13	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:690:ILE:HB	2:C:852:ILE:HD13	1.64	0.80
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.46	0.80
2:M:340:MET:HA	9:M:2031:HOH:O	1.82	0.79
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.63	0.79
1:B:132:LEU:HD11	1:B:138:LEU:HD12	1.64	0.79
3:N:654:LYS:HD3	3:N:674:ARG:HH12	1.45	0.79
3:D:87:ARG:HG3	3:D:88:TYR:N	1.97	0.79
3:D:87:ARG:O	3:D:521:PRO:HB3	1.82	0.79
1:L:58:ILE:HB	1:L:61:VAL:HB	1.63	0.79
2:M:331:ARG:HB2	9:M:9297:HOH:O	1.81	0.79
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.63	0.79
2:M:650:ARG:HG2	2:M:653:ASP:HB2	1.65	0.79
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.62	0.79
3:N:87:ARG:O	3:N:521:PRO:HB3	1.83	0.79
2:C:290:LEU:H	2:C:290:LEU:HD13	1.47	0.79
3:D:427:VAL:HG23	9:D:2135:HOH:O	1.83	0.79
5:F:266:GLU:HA	5:F:269:ASN:HD22	1.47	0.79
3:N:87:ARG:HA	9:N:9625:HOH:O	1.83	0.79
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.65	0.79
8:N:9100:G4P:H8	8:N:9100:G4P:C5'	2.08	0.79
2:C:93:PRO:HA	9:C:9603:HOH:O	1.83	0.78
2:M:134:ARG:HA	9:M:9211:HOH:O	1.82	0.78
1:L:80:LEU:HD13	3:N:842:VAL:HG12	1.65	0.78
2:C:755:LEU:HD12	2:C:825:VAL:HG11	1.64	0.78
5:F:312:GLN:HB2	9:F:2094:HOH:O	1.84	0.78
3:N:135:LEU:HD11	3:N:452:ILE:HD11	1.64	0.78
2:C:325:ILE:HD12	2:C:325:ILE:H	1.47	0.78
2:M:693:GLU:HA	2:M:696:LYS:HG3	1.65	0.78
2:C:24:GLU:HB3	2:C:28:ARG:HH12	1.48	0.78
2:C:333:ILE:HG22	2:C:465:GLY:HA2	1.65	0.78
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.65	0.78
3:D:591:VAL:HG11	3:D:597:ASP:HA	1.66	0.78
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.65	0.78
2:C:42:VAL:HG12	2:C:43:GLY:H	1.48	0.78
3:D:1328:GLY:HA3	9:D:2287:HOH:O	1.84	0.78
3:D:759:ALA:HA	3:D:763:MET:HE2	1.66	0.78
5:F:164:LYS:HA	5:F:171:LYS:NZ	1.98	0.78
2:M:650:ARG:H	2:M:650:ARG:NE	1.81	0.78
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.49	0.78
2:M:164:PRO:HA	2:M:266:ARG:HH22	1.47	0.78
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:66:LEU:HB2	9:C:2120:HOH:O	1.84	0.78
3:D:90:MET:HG2	3:D:521:PRO:HD3	1.65	0.78
2:M:314:THR:HG22	9:M:2325:HOH:O	1.84	0.78
3:D:978:TYR:HA	9:D:2242:HOH:O	1.83	0.77
3:D:972:LEU:HG	3:D:976:GLN:HE22	1.47	0.77
1:K:34:VAL:HG21	9:M:9419:HOH:O	1.84	0.77
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.64	0.77
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.66	0.77
1:B:58:ILE:HB	1:B:61:VAL:HB	1.66	0.77
3:D:553:ARG:HH21	5:F:215:GLU:HG2	1.48	0.77
5:F:214:GLN:HA	5:F:217:ASN:HD22	1.48	0.77
1:K:195:LEU:HG	9:K:1736:HOH:O	1.84	0.77
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.65	0.77
3:D:907:GLU:HA	9:D:9566:HOH:O	1.83	0.77
2:M:66:LEU:HD13	2:M:100:LEU:HB3	1.64	0.77
2:M:42:VAL:HG12	2:M:43:GLY:H	1.49	0.77
2:C:715:THR:HG22	2:C:717:LEU:H	1.47	0.77
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.67	0.77
3:D:1388:ARG:N	3:D:1388:ARG:HH11	1.83	0.77
3:D:98:PRO:HG3	3:D:515:GLU:HB3	1.67	0.77
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.67	0.77
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.67	0.77
3:D:500:ARG:NH2	3:D:1388:ARG:HE	1.83	0.77
2:M:164:PRO:HA	2:M:266:ARG:HH12	1.49	0.77
2:M:971:LYS:HA	2:M:988:VAL:HA	1.65	0.77
1:K:136:GLY:HA3	9:K:1268:HOH:O	1.85	0.77
1:K:53:VAL:HG12	1:K:167:VAL:HG21	1.67	0.77
3:N:119:SER:HB2	3:N:123:LEU:H	1.49	0.77
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.67	0.77
2:C:575:GLN:H	2:C:667:ALA:HB1	1.49	0.76
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.65	0.76
3:N:783:ARG:NH1	3:N:1029:ARG:HG2	2.00	0.76
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.67	0.76
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.65	0.76
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.67	0.76
2:C:689:VAL:HG21	9:C:9624:HOH:O	1.86	0.76
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.66	0.76
3:D:777:PRO:HA	9:D:9581:HOH:O	1.85	0.76
3:D:583:ASP:OD1	3:D:604:THR:HB	1.84	0.76
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.68	0.76
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:495:THR:HG23	2:C:517:ARG:HE	1.50	0.76
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.68	0.76
8:N:9101:G4P:H5"	8:N:9101:G4P:C8	2.15	0.76
3:D:1376:MET:HE3	3:D:1421:LEU:HB2	1.67	0.76
3:D:1197:ARG:HD2	3:D:1396:GLU:HB2	1.68	0.76
3:N:41:ARG:HB2	9:N:2916:HOH:O	1.86	0.76
2:C:627:ARG:NE	2:C:627:ARG:H	1.83	0.76
1:K:58:ILE:HB	1:K:61:VAL:HB	1.67	0.76
1:L:76:VAL:HB	3:N:872:ARG:HH22	1.51	0.75
3:N:1194:CYS:HA	9:N:9487:HOH:O	1.86	0.75
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.67	0.75
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.66	0.75
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.66	0.75
1:K:214:ALA:HA	1:K:217:ILE:HD12	1.68	0.75
2:M:598:GLU:O	2:M:651:LYS:HG3	1.86	0.75
2:M:1005:MET:HG3	3:N:629:SER:HB2	1.68	0.75
1:A:67:THR:HA	9:A:9794:HOH:O	1.86	0.75
1:B:13:VAL:HA	9:B:9669:HOH:O	1.86	0.75
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.69	0.75
2:M:100:LEU:HD21	2:M:368:THR:HA	1.67	0.75
3:N:1381:VAL:HB	3:N:1389:LEU:O	1.86	0.75
5:P:416:ARG:HD2	5:P:419:ARG:HB2	1.67	0.75
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.69	0.75
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.67	0.75
2:M:571:LEU:HD23	2:M:700:TYR:HA	1.68	0.75
9:N:9282:HOH:O	4:O:17:TYR:HB3	1.86	0.75
2:C:89:THR:HA	2:C:129:ILE:O	1.86	0.75
3:D:1137:ARG:H	3:D:1137:ARG:HD2	1.52	0.75
3:D:699:VAL:HG22	3:D:756:GLN:HE22	1.50	0.75
3:D:868:TYR:HD1	3:D:869:MET:H	1.31	0.75
4:E:28:GLN:HB3	9:E:9553:HOH:O	1.87	0.75
2:M:442:GLU:HB3	9:M:9245:HOH:O	1.87	0.75
2:M:724:ARG:HB2	2:M:740:GLU:HA	1.69	0.75
2:M:786:LYS:HD2	9:M:9396:HOH:O	1.85	0.75
2:C:500:ASN:HA	9:C:9718:HOH:O	1.86	0.75
3:N:794:GLN:NE2	3:N:795:VAL:H	1.85	0.75
2:M:1013:TYR:HE2	5:P:341:PRO:HD2	1.51	0.75
3:N:1217:ILE:H	3:N:1217:ILE:HD12	1.50	0.75
1:L:27:PRO:HG2	1:L:186:LEU:HD12	1.68	0.75
2:M:338:GLU:HA	2:M:341:THR:HG22	1.68	0.74
2:M:711:GLU:HG2	2:M:822:VAL:HG12	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:181:VAL:HB	9:C:9674:HOH:O	1.86	0.74
3:N:133:ILE:HD13	3:N:454:ALA:HB1	1.69	0.74
2:C:737:LEU:HB3	9:C:9568:HOH:O	1.86	0.74
2:M:838:LYS:HG3	2:M:997:LEU:HB2	1.70	0.74
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.67	0.74
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.52	0.74
2:M:324:ASP:HB3	2:M:327:HIS:HD2	1.51	0.74
5:P:393:THR:HG22	5:P:394:ARG:H	1.51	0.74
2:C:1016:ILE:HD12	5:F:317:LEU:HD21	1.67	0.74
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.70	0.74
2:M:965:GLU:HA	2:M:968:LEU:HD12	1.69	0.74
3:N:152:LEU:HD23	3:N:152:LEU:H	1.51	0.74
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.68	0.74
1:K:56:VAL:HG13	1:K:142:VAL:HG12	1.70	0.74
2:C:753:ASP:HA	9:D:9567:HOH:O	1.88	0.74
5:F:393:THR:HG22	5:F:394:ARG:H	1.52	0.74
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.02	0.74
1:A:58:ILE:HB	1:A:61:VAL:HB	1.69	0.74
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.69	0.74
3:D:658:LEU:HA	3:D:661:MET:HE3	1.70	0.74
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.70	0.74
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.68	0.74
2:M:328:LEU:HD12	9:M:9297:HOH:O	1.87	0.74
2:M:585:GLU:HB2	9:M:9626:HOH:O	1.88	0.74
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.70	0.74
2:M:734:LEU:HD13	2:M:737:LEU:HD13	1.69	0.74
3:N:1382:THR:HG21	3:N:1418:LYS:HE3	1.70	0.73
3:N:1402:ALA:HB1	9:N:9626:HOH:O	1.88	0.73
9:C:9690:HOH:O	3:D:1064:GLY:HA2	1.87	0.73
3:D:756:GLN:HE21	3:D:760:ARG:HD2	1.51	0.73
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.68	0.73
3:N:1116:ASN:ND2	3:N:1193:THR:HB	2.03	0.73
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.70	0.73
3:N:890:VAL:HA	9:N:9430:HOH:O	1.88	0.73
2:C:724:ARG:HB2	2:C:740:GLU:HA	1.68	0.73
2:C:948:GLU:HA	9:C:2299:HOH:O	1.87	0.73
2:M:580:MET:HB2	9:M:9244:HOH:O	1.87	0.73
3:N:455:ARG:HH22	5:P:140:ARG:HB3	1.53	0.73
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.69	0.73
2:M:336:VAL:HA	2:M:339:LEU:HD12	1.68	0.73
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:534:ARG:HA	9:F:2094:HOH:O	1.88	0.73
2:M:89:THR:HA	2:M:129:ILE:O	1.88	0.73
2:M:325:ILE:HB	9:M:9421:HOH:O	1.88	0.73
2:M:395:LYS:HG2	2:M:397:GLU:HG2	1.71	0.73
2:M:546:LEU:HD12	2:M:565:GLN:NE2	2.01	0.73
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.51	0.73
2:M:568:ALA:HB1	2:M:668:LEU:HB3	1.69	0.73
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.71	0.73
3:N:441:ARG:HB3	3:N:443:VAL:HG23	1.69	0.73
3:D:1252:ILE:HG22	3:D:1253:THR:H	1.53	0.73
2:M:94:LEU:HA	9:M:9263:HOH:O	1.86	0.73
2:M:968:LEU:HB3	9:M:9311:HOH:O	1.88	0.73
5:F:164:LYS:HA	5:F:171:LYS:HZ3	1.54	0.73
3:N:52:PRO:HG2	9:N:9465:HOH:O	1.88	0.73
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.71	0.73
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.69	0.73
3:D:1496:GLU:HG3	3:D:1500:LYS:HE3	1.71	0.73
1:L:120:VAL:HG23	9:L:3068:HOH:O	1.89	0.73
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.52	0.73
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.71	0.73
5:P:287:THR:HG23	5:P:289:GLU:HB2	1.70	0.73
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.53	0.73
2:M:492:ASP:HA	2:M:518:LYS:HB3	1.70	0.73
3:N:195:VAL:HB	3:N:205:TYR:HB2	1.69	0.73
3:D:675:ARG:O	3:D:678:GLU:HG2	1.88	0.72
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.71	0.72
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.71	0.72
4:O:8:LYS:HG3	9:O:1143:HOH:O	1.89	0.72
1:A:166:PRO:HB3	9:A:9709:HOH:O	1.89	0.72
1:A:214:ALA:HA	1:A:217:ILE:HD12	1.68	0.72
2:C:118:ILE:H	2:C:118:ILE:HD13	1.53	0.72
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.71	0.72
3:D:534:ARG:HH21	5:F:315:VAL:HG21	1.54	0.72
1:L:9:PRO:HB3	1:L:25:LEU:HG	1.71	0.72
2:M:176:VAL:HG22	2:M:182:VAL:HG13	1.70	0.72
2:C:1102:LEU:HB3	9:C:9776:HOH:O	1.89	0.72
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.70	0.72
1:L:89:PHE:HB3	1:L:94:LEU:HD13	1.71	0.72
3:N:1310:ARG:HE	3:N:1327:ARG:HB3	1.53	0.72
3:N:1314:LYS:HZ1	3:N:1317:ASP:HB2	1.54	0.72
4:O:87:LYS:HE2	4:O:91:ARG:HH21	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:566:ILE:HD11	5:F:192:LEU:HD21	1.71	0.72
3:D:1063:GLU:HG2	3:D:1064:GLY:H	1.54	0.72
3:D:1254:GLN:HB2	9:D:2152:HOH:O	1.88	0.72
3:D:1378:TYR:O	3:D:1420:LEU:HB3	1.90	0.72
1:L:204:SER:HA	9:L:2931:HOH:O	1.89	0.72
3:N:1118:ILE:HD11	3:N:1346:ARG:HE	1.53	0.72
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.54	0.72
2:C:1013:TYR:HB2	5:F:335:ASP:OD2	1.90	0.72
3:D:31:THR:HA	9:D:9962:HOH:O	1.88	0.72
3:D:475:LYS:HA	3:D:478:LEU:HD12	1.70	0.72
3:D:838:ARG:HH12	3:D:863:VAL:HG12	1.53	0.72
5:F:273:ARG:HA	5:F:276:ARG:HH11	1.54	0.72
5:F:416:ARG:HD2	5:F:419:ARG:HB2	1.71	0.72
1:B:23:PHE:HA	9:B:9669:HOH:O	1.89	0.72
3:D:54:LYS:HD3	3:D:55:ASP:H	1.54	0.72
3:N:1495:ILE:HA	9:N:9438:HOH:O	1.87	0.72
1:L:225:PHE:HA	9:L:2122:HOH:O	1.90	0.72
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.04	0.72
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.72	0.72
3:D:615:ARG:O	3:D:619:LEU:HB2	1.90	0.72
3:D:834:THR:OG1	3:D:838:ARG:HB3	1.89	0.72
3:D:601:ARG:HH12	3:D:613:ARG:HH21	1.38	0.71
2:M:324:ASP:HA	9:M:2460:HOH:O	1.90	0.71
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.69	0.71
3:D:699:VAL:HG22	3:D:756:GLN:NE2	2.06	0.71
3:N:692:GLU:HG2	3:N:720:LEU:HD12	1.71	0.71
2:C:689:VAL:CG2	2:C:870:ILE:HB	2.20	0.71
2:C:777:ILE:HG12	9:C:2212:HOH:O	1.89	0.71
1:B:123:MET:HG2	9:B:9676:HOH:O	1.90	0.71
1:K:117:VAL:HG22	9:K:4167:HOH:O	1.88	0.71
1:K:94:LEU:HD21	1:K:119:ASP:HB2	1.71	0.71
2:M:144:PRO:HA	2:M:163:ILE:HG23	1.73	0.71
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.55	0.71
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.72	0.71
3:N:162:ARG:HA	3:N:449:SER:HB3	1.71	0.71
5:P:131:VAL:HG13	5:P:178:ARG:HG2	1.72	0.71
2:C:371:LYS:O	2:C:372:LEU:HD12	1.91	0.71
3:D:1346:ARG:HA	3:D:1346:ARG:HE	1.54	0.71
1:L:176:ARG:HH12	3:N:884:ARG:NE	1.89	0.71
3:N:1127:GLU:HB3	9:N:9298:HOH:O	1.90	0.71
3:N:1330:ILE:HA	9:N:9632:HOH:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:309:LYS:HA	5:F:312:GLN:OE1	1.91	0.71
2:M:584:GLU:HG2	9:M:9244:HOH:O	1.90	0.71
2:M:1115:LEU:HD23	3:N:85:VAL:HA	1.73	0.71
2:C:536:PRO:HD2	2:C:537:LYS:NZ	2.06	0.71
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.54	0.71
1:L:167:VAL:HG22	9:L:2964:HOH:O	1.90	0.71
2:M:218:VAL:HG22	2:M:221:LEU:HD23	1.71	0.71
5:P:156:VAL:HA	5:P:159:ILE:HD12	1.72	0.71
2:M:184:MET:HG3	2:M:193:LEU:HD23	1.72	0.71
2:M:468:ARG:HB3	9:M:9590:HOH:O	1.90	0.71
2:M:621:VAL:HB	9:M:9858:HOH:O	1.91	0.71
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.73	0.71
3:N:662:GLU:HB2	9:N:9379:HOH:O	1.89	0.71
3:N:810:GLU:O	3:N:813:LEU:HG	1.91	0.71
3:N:827:ILE:HA	9:N:9636:HOH:O	1.89	0.71
1:A:158:ILE:HG12	9:A:9709:HOH:O	1.90	0.70
2:C:259:GLY:HA3	9:C:2199:HOH:O	1.91	0.70
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.71	0.70
3:D:486:ARG:HH21	3:D:489:ARG:NE	1.88	0.70
2:C:889:HIS:HE1	3:D:951:ILE:H	1.38	0.70
1:L:41:ARG:HH11	1:L:177:VAL:HB	1.56	0.70
2:M:101:ILE:HG22	2:M:102:HIS:H	1.56	0.70
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.73	0.70
2:C:957:LYS:HB3	9:C:9884:HOH:O	1.90	0.70
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.71	0.70
2:M:176:VAL:HG13	2:M:182:VAL:HG22	1.73	0.70
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.73	0.70
3:N:64:LYS:HB2	5:P:376:ILE:O	1.91	0.70
2:C:86:LYS:HG3	2:C:813:VAL:HG12	1.72	0.70
2:C:874:LEU:HB2	9:C:2136:HOH:O	1.91	0.70
3:D:1432:LYS:CD	3:D:1433:SER:H	2.01	0.70
3:D:1462:LEU:HD23	9:D:3112:HOH:O	1.89	0.70
2:M:290:LEU:HD12	2:M:302:VAL:HG11	1.72	0.70
2:M:413:LEU:H	2:M:413:LEU:HD12	1.56	0.70
2:C:285:LEU:HD21	2:C:289:THR:HA	1.73	0.70
2:C:336:VAL:HB	9:C:9899:HOH:O	1.91	0.70
3:N:1373:ARG:HG2	3:N:1374:GLN:NE2	2.06	0.70
3:N:1410:GLU:HA	9:N:9265:HOH:O	1.91	0.70
3:N:507:ASN:HA	9:N:9943:HOH:O	1.91	0.70
2:C:13:ILE:HD12	9:C:9856:HOH:O	1.91	0.70
2:C:385:PHE:O	2:C:389:SER:HB3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.74	0.70
3:D:815:ALA:HB3	9:D:9733:HOH:O	1.92	0.70
2:C:1115:LEU:HD23	3:D:85:VAL:HG12	1.74	0.70
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.74	0.70
2:M:710:ILE:HB	2:M:790:LEU:HD13	1.73	0.70
1:A:146:ARG:HG2	9:A:9574:HOH:O	1.91	0.70
1:B:133:GLU:HG3	1:B:134:GLU:H	1.56	0.70
2:C:473:ARG:HE	2:C:531:PHE:HE1	1.39	0.70
3:N:709:HIS:HA	3:N:1227:GLN:HG2	1.73	0.70
1:K:91:ASN:HA	9:K:1224:HOH:O	1.91	0.70
2:M:1119:ARG:HE	2:M:1119:ARG:HA	1.57	0.70
5:P:184:ARG:HG2	5:P:188:ILE:HD11	1.74	0.70
2:C:861:LEU:HD23	2:C:863:ASP:H	1.57	0.70
3:D:119:SER:CB	3:D:123:LEU:HB2	2.22	0.70
4:E:32:ARG:HD3	9:E:9553:HOH:O	1.91	0.70
2:M:130:ASN:HA	9:M:2315:HOH:O	1.91	0.70
2:M:707:ARG:HD2	9:M:9630:HOH:O	1.91	0.70
1:A:219:ARG:HH12	1:B:219:ARG:HG2	1.57	0.70
2:C:405:ARG:NH1	2:C:409:ARG:HH21	1.90	0.70
2:C:689:VAL:HG23	2:C:870:ILE:HB	1.73	0.70
1:L:151:VAL:HB	1:L:169:ALA:HB3	1.74	0.70
5:F:135:ILE:HD11	5:F:178:ARG:HD2	1.73	0.70
3:N:131:LYS:HA	3:N:456:MET:HG3	1.72	0.70
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.72	0.69
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.06	0.69
2:C:69:LEU:HB2	2:C:97:ARG:HB2	1.72	0.69
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.07	0.69
2:M:288:ARG:HG3	2:M:288:ARG:HH11	1.55	0.69
2:M:776:SER:HA	2:M:780:GLU:HB3	1.73	0.69
1:A:22:GLU:HB3	9:A:9573:HOH:O	1.92	0.69
2:C:197:LEU:HD13	2:C:207:LEU:HD21	1.74	0.69
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.72	0.69
3:D:710:ARG:HG2	3:D:710:ARG:HH11	1.56	0.69
5:F:270:LYS:HB3	5:F:295:MET:SD	2.31	0.69
1:L:62:LEU:HD12	9:L:6647:HOH:O	1.91	0.69
2:M:412:ALA:HA	9:M:9312:HOH:O	1.91	0.69
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.73	0.69
3:N:1157:GLY:HA3	9:N:9424:HOH:O	1.92	0.69
2:C:776:SER:HA	2:C:780:GLU:HB3	1.72	0.69
3:D:537:THR:HG22	9:F:9559:HOH:O	1.91	0.69
2:M:284:ARG:HG2	2:M:285:LEU:H	1.54	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:39:ARG:NE	2:M:39:ARG:HA	2.07	0.69
2:M:777:ILE:O	5:P:409:LYS:HD2	1.92	0.69
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.73	0.69
2:C:969:GLN:HB3	9:C:9615:HOH:O	1.91	0.69
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.75	0.69
4:E:40:LEU:HD13	4:E:45:ARG:HD2	1.74	0.69
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.73	0.69
3:N:711:LEU:HD11	9:N:9759:HOH:O	1.92	0.69
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.74	0.69
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.23	0.69
3:D:119:SER:H	3:D:123:LEU:HD13	1.56	0.69
5:F:366:ALA:HB2	9:F:2032:HOH:O	1.91	0.69
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.73	0.69
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.57	0.69
2:C:557:ARG:NH1	2:C:879:ARG:HE	1.90	0.69
2:C:710:ILE:HD11	2:C:758:ARG:NE	2.07	0.69
3:D:838:ARG:HA	9:D:9613:HOH:O	1.92	0.69
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.73	0.69
2:M:803:THR:HG22	2:M:825:VAL:HG13	1.75	0.69
2:C:436:GLY:HA2	2:C:538:GLN:O	1.92	0.69
3:D:156:GLU:HB2	9:D:3232:HOH:O	1.93	0.69
3:D:994:GLN:HB2	9:D:2834:HOH:O	1.93	0.69
1:L:112:ARG:HD2	9:L:1944:HOH:O	1.92	0.69
2:M:833:LEU:HD11	2:M:849:VAL:HG21	1.75	0.69
2:M:979:THR:HG23	2:M:981:GLU:H	1.55	0.69
5:P:337:HIS:HA	9:P:2159:HOH:O	1.92	0.69
2:C:148:PHE:HZ	2:C:281:LEU:HD13	1.56	0.69
3:D:549:ASN:HB3	9:D:2045:HOH:O	1.92	0.69
2:M:436:GLY:HA2	2:M:538:GLN:O	1.93	0.69
2:C:102:HIS:HE1	2:C:367:LEU:HD21	1.56	0.69
2:M:336:VAL:HG21	9:M:9234:HOH:O	1.93	0.69
2:C:1052:MET:HE3	2:C:1056:LYS:HD3	1.74	0.69
4:E:51:LEU:HG	4:E:53:GLY:H	1.58	0.69
2:M:89:THR:O	2:M:91:GLN:HG3	1.93	0.69
3:N:192:ALA:O	3:N:195:VAL:HG23	1.93	0.69
3:N:447:VAL:HG11	9:N:2028:HOH:O	1.93	0.69
3:N:127:LEU:HD21	3:N:461:ILE:HD11	1.74	0.69
4:O:70:THR:HG22	9:O:1901:HOH:O	1.93	0.69
1:A:53:VAL:HG12	1:A:167:VAL:HG21	1.72	0.69
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.75	0.69
3:D:116:LEU:HB3	3:D:118:LEU:HD13	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:179:VAL:HG22	3:D:389:GLU:HG3	1.75	0.69
5:F:388:ALA:HB3	9:F:9936:HOH:O	1.92	0.69
1:K:86:VAL:HG12	1:K:124:ASN:ND2	2.08	0.69
2:M:3:ILE:HG21	9:M:2484:HOH:O	1.93	0.69
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.57	0.69
2:M:328:LEU:HD13	2:M:433:THR:OG1	1.92	0.68
3:N:119:SER:OG	3:N:123:LEU:HD13	1.94	0.68
3:N:194:GLY:HA2	3:N:206:ARG:HD2	1.76	0.68
1:A:9:PRO:HB3	1:A:25:LEU:HG	1.75	0.68
3:D:162:ARG:NH2	3:D:434:ARG:HH21	1.90	0.68
3:D:194:GLY:HA2	3:D:206:ARG:HD2	1.74	0.68
3:D:798:GLU:HG2	3:D:799:LYS:H	1.57	0.68
3:N:1118:ILE:HD11	3:N:1346:ARG:NE	2.08	0.68
1:A:117:VAL:HG12	9:A:9774:HOH:O	1.94	0.68
2:C:237:ARG:HG2	9:C:2116:HOH:O	1.94	0.68
2:M:511:GLU:O	2:M:526:PRO:HD3	1.94	0.68
3:N:216:VAL:HA	9:N:2353:HOH:O	1.91	0.68
3:N:477:LEU:HD21	3:N:495:ARG:HE	1.56	0.68
2:C:751:PRO:HB2	3:D:680:GLN:HG3	1.74	0.68
5:F:76:SER:HB3	9:F:9637:HOH:O	1.92	0.68
3:N:1239:ARG:HB2	9:N:2464:HOH:O	1.92	0.68
1:B:64:GLU:HA	1:B:165:ILE:HD13	1.75	0.68
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.08	0.68
3:N:141:ILE:H	3:N:141:ILE:HD12	1.58	0.68
3:N:161:LEU:HD21	3:N:452:ILE:HD13	1.75	0.68
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.76	0.68
3:D:411:THR:HG21	9:D:9778:HOH:O	1.94	0.68
3:D:73:CYS:HB3	3:D:76:CYS:O	1.93	0.68
3:N:1435:LEU:HG	3:N:1467:ILE:HD12	1.76	0.68
3:N:796:ARG:HH21	3:N:828:LYS:HE2	1.58	0.68
2:C:1014:SER:HB3	9:C:9664:HOH:O	1.92	0.68
2:C:492:ASP:HA	2:C:518:LYS:HB3	1.74	0.68
3:D:1077:ALA:HB2	9:D:9673:HOH:O	1.93	0.68
3:D:173:PRO:HD3	3:D:178:LEU:HD12	1.75	0.68
3:D:935:LYS:HZ2	3:D:935:LYS:HB3	1.57	0.68
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.59	0.68
3:N:90:MET:HG2	3:N:521:PRO:HD3	1.75	0.68
5:P:273:ARG:HG3	9:P:1952:HOH:O	1.93	0.68
2:C:24:GLU:HB3	2:C:28:ARG:NH1	2.09	0.68
2:C:577:PRO:HA	2:C:671:ASN:ND2	2.02	0.68
3:D:804:LEU:HD21	3:D:829:VAL:HG21	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:876:SER:O	3:D:880:ILE:HG12	1.93	0.68
3:D:914:LEU:HA	9:D:2987:HOH:O	1.94	0.68
3:N:119:SER:HB3	9:N:9548:HOH:O	1.94	0.68
3:N:1277:ILE:HD12	9:N:9684:HOH:O	1.94	0.68
3:D:481:MET:HG3	3:D:493:ARG:HG2	1.75	0.68
3:D:976:GLN:HA	9:D:9904:HOH:O	1.94	0.68
2:M:164:PRO:CA	2:M:266:ARG:HH22	2.07	0.68
1:B:208:LEU:HD23	9:B:9568:HOH:O	1.94	0.68
2:C:760:SER:O	2:C:785:VAL:HG22	1.94	0.68
2:C:952:LEU:HD12	2:C:969:GLN:NE2	2.07	0.68
3:D:1401:GLU:HB3	9:D:9816:HOH:O	1.93	0.68
1:K:71:VAL:HA	9:K:1208:HOH:O	1.93	0.68
9:K:5477:HOH:O	2:M:605:LYS:HA	1.93	0.68
4:O:70:THR:HG21	9:O:2018:HOH:O	1.94	0.68
3:D:1335:LEU:HD23	3:D:1344:VAL:HA	1.76	0.67
2:M:284:ARG:HG2	2:M:285:LEU:N	2.09	0.67
5:P:132:ARG:O	5:P:136:LEU:HG	1.94	0.67
2:C:12:VAL:HG22	2:C:13:ILE:HG23	1.76	0.67
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.75	0.67
2:C:358:ARG:HH21	2:C:373:VAL:N	1.91	0.67
3:D:68:PHE:HB3	9:D:9610:HOH:O	1.94	0.67
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.77	0.67
3:D:730:PRO:HA	3:D:733:CYS:SG	2.35	0.67
3:D:785:ILE:HG12	3:D:935:LYS:HA	1.73	0.67
5:F:77:THR:O	5:F:81:VAL:HG23	1.94	0.67
3:N:399:ARG:HG3	9:N:2124:HOH:O	1.94	0.67
5:P:373:LYS:HG2	9:P:2070:HOH:O	1.94	0.67
1:A:151:VAL:HB	1:A:169:ALA:HB3	1.76	0.67
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.75	0.67
3:D:488:ARG:NE	3:D:488:ARG:H	1.92	0.67
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.94	0.67
3:N:167:GLU:HA	9:N:9499:HOH:O	1.95	0.67
1:B:41:ARG:HH11	1:B:177:VAL:HB	1.58	0.67
2:C:31:GLN:NE2	2:C:40:GLU:HB2	2.09	0.67
2:C:54:ILE:HG21	9:C:2671:HOH:O	1.94	0.67
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.77	0.67
5:F:321:ILE:HD11	5:F:329:TYR:HB2	1.75	0.67
2:M:183:SER:HB3	2:M:190:LYS:HD3	1.76	0.67
2:M:716:LYS:HA	2:M:716:LYS:HE3	1.75	0.67
3:N:1121:PRO:HD3	3:N:1346:ARG:NH2	2.09	0.67
5:P:163:LEU:HD22	5:P:174:LEU:HG	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1049:LEU:HD22	3:D:1472:ILE:HD11	1.77	0.67
3:D:1131:SER:O	3:D:1133:ARG:HG3	1.95	0.67
2:M:52:PHE:HB3	9:M:9629:HOH:O	1.95	0.67
3:N:481:MET:HE1	3:N:493:ARG:HE	1.60	0.67
2:C:1019:GLN:HG2	9:C:9664:HOH:O	1.95	0.67
2:C:23:VAL:HG12	9:C:2056:HOH:O	1.95	0.67
2:C:266:ARG:HD3	2:C:288:ARG:HE	1.57	0.67
2:C:841:ASN:HD21	2:C:845:ASN:N	1.93	0.67
3:D:1395:LEU:HB2	9:D:2424:HOH:O	1.93	0.67
3:D:576:GLU:HG3	9:F:9597:HOH:O	1.94	0.67
3:D:699:VAL:HG12	3:D:717:GLN:HG2	1.77	0.67
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.75	0.67
2:M:50:GLU:HG2	2:M:265:ARG:NH1	2.09	0.67
2:M:339:LEU:HG	9:M:9771:HOH:O	1.95	0.67
2:M:1005:MET:HE3	3:N:645:PRO:HG2	1.75	0.67
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.75	0.67
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.77	0.67
5:F:218:GLN:HA	5:F:221:ILE:HD12	1.75	0.67
5:F:234:LYS:HD3	5:F:236:SER:HB2	1.77	0.67
1:L:132:LEU:HB3	9:L:1114:HOH:O	1.95	0.67
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.76	0.67
3:N:1381:VAL:HG23	9:N:9527:HOH:O	1.95	0.67
1:A:66:SER:HA	9:A:9605:HOH:O	1.94	0.67
1:K:12:THR:HG23	1:K:24:VAL:HB	1.76	0.67
1:L:77:GLU:HB3	9:L:1341:HOH:O	1.95	0.67
2:M:266:ARG:HD3	2:M:288:ARG:NH1	2.10	0.67
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.77	0.67
1:A:11:PHE:HB2	9:A:9706:HOH:O	1.94	0.67
1:A:41:ARG:HH11	1:A:177:VAL:HB	1.59	0.67
1:B:132:LEU:HB3	9:B:9733:HOH:O	1.94	0.67
2:C:300:ASP:OD2	2:C:303:PHE:HB2	1.94	0.67
2:C:673:LEU:HD22	2:C:867:VAL:HA	1.76	0.67
3:D:28:LYS:HD2	3:D:41:ARG:HD2	1.76	0.67
1:K:102:LYS:HG3	9:K:2209:HOH:O	1.95	0.67
2:M:269:LEU:HA	2:M:288:ARG:HD2	1.77	0.67
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.76	0.67
3:N:1336:LEU:HD22	3:N:1421:LEU:HB2	1.77	0.67
3:N:699:VAL:H	3:N:756:GLN:NE2	1.93	0.67
2:M:1090:LYS:HE2	3:N:88:TYR:O	1.95	0.67
5:P:102:LEU:O	5:P:106:VAL:HG23	1.95	0.67
1:B:9:PRO:HB3	1:B:25:LEU:HG	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:267:TYR:HE1	2:C:338:GLU:HG3	1.60	0.66
2:C:405:ARG:HD3	2:C:543:ASN:CG	2.16	0.66
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.10	0.66
2:M:397:GLU:HG3	2:M:633:GLN:HE22	1.60	0.66
2:M:489:THR:HA	9:M:9368:HOH:O	1.94	0.66
2:M:841:ASN:HD21	2:M:845:ASN:N	1.93	0.66
3:N:1313:VAL:HA	9:N:9426:HOH:O	1.94	0.66
5:P:358:LEU:HD11	5:P:370:LYS:HD2	1.77	0.66
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.60	0.66
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.76	0.66
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.76	0.66
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.25	0.66
2:M:16:PRO:HB2	2:M:460:ARG:HD3	1.78	0.66
2:M:490:GLU:HG2	2:M:494:TYR:HE1	1.59	0.66
2:M:759:THR:HB	2:M:785:VAL:HG11	1.77	0.66
3:N:1301:LYS:HG2	9:N:2064:HOH:O	1.96	0.66
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.77	0.66
1:A:2:LEU:HA	1:A:6:LEU:HD22	1.77	0.66
1:B:46:SER:O	1:B:148:VAL:HB	1.95	0.66
2:C:428:ARG:HH21	2:C:451:LEU:HD11	1.59	0.66
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.77	0.66
3:D:178:LEU:HG	3:D:200:ASP:H	1.61	0.66
1:K:97:VAL:HG23	9:K:1044:HOH:O	1.95	0.66
3:N:197:SER:HB2	3:N:205:TYR:CE1	2.30	0.66
1:A:185:ARG:HD2	9:A:9581:HOH:O	1.95	0.66
2:C:527:GLU:HG3	9:C:2408:HOH:O	1.95	0.66
3:D:1314:LYS:HG2	9:D:2456:HOH:O	1.94	0.66
3:D:168:THR:HB	3:D:393:ILE:HD12	1.78	0.66
4:E:46:PRO:HD3	4:E:66:LYS:HG2	1.77	0.66
1:L:186:LEU:HB2	9:L:1608:HOH:O	1.96	0.66
3:N:481:MET:CE	3:N:493:ARG:HE	2.08	0.66
3:N:537:THR:C	5:P:317:LEU:HB2	2.15	0.66
2:C:130:ASN:HA	9:C:9898:HOH:O	1.94	0.66
2:C:783:ARG:HG2	2:C:785:VAL:HB	1.78	0.66
3:D:684:LYS:HE2	9:D:9654:HOH:O	1.94	0.66
5:F:128:ARG:HD2	9:F:9581:HOH:O	1.96	0.66
2:M:162:ILE:HD12	2:M:172:ILE:HB	1.77	0.66
3:N:1242:HIS:CE1	3:N:1266:ARG:HH11	2.13	0.66
3:N:95:LEU:HD12	3:N:515:GLU:HA	1.77	0.66
3:N:825:ALA:HB1	9:N:9618:HOH:O	1.95	0.66
5:P:302:LYS:HB3	9:P:3098:HOH:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:137:ARG:HH12	1:B:139:ASN:HB3	1.61	0.66
2:C:780:GLU:HG3	2:C:781:LYS:H	1.61	0.66
5:F:113:ILE:HG23	5:F:127:ILE:HB	1.76	0.66
5:P:140:ARG:HG3	9:P:2295:HOH:O	1.95	0.66
2:C:250:ARG:NH2	2:C:254:VAL:HB	2.11	0.66
3:D:97:THR:HG22	9:D:9686:HOH:O	1.96	0.66
9:D:2753:HOH:O	5:F:171:LYS:HG2	1.94	0.66
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.61	0.66
3:N:899:LEU:HD23	3:N:917:GLN:HB3	1.78	0.66
5:P:158:GLU:HA	5:P:161:GLN:HE21	1.61	0.66
2:C:338:GLU:HA	2:C:341:THR:HG22	1.77	0.66
3:D:1265:ALA:HB1	9:D:9823:HOH:O	1.96	0.66
2:M:129:ILE:HD13	9:M:9309:HOH:O	1.94	0.66
3:N:1196:THR:HA	9:N:9588:HOH:O	1.96	0.66
3:N:1501:GLU:HB3	9:N:9522:HOH:O	1.96	0.66
3:N:39:PRO:HB3	3:N:45:PHE:O	1.95	0.66
5:P:170:HIS:HA	5:P:173:TYR:HD1	1.61	0.66
2:C:66:LEU:HD13	2:C:100:LEU:HB3	1.78	0.66
2:C:176:VAL:HG12	2:C:182:VAL:HG22	1.77	0.66
2:M:394:PHE:HA	9:M:9211:HOH:O	1.96	0.66
3:N:984:THR:H	3:N:987:GLU:CD	1.99	0.66
1:A:102:LYS:HG2	9:A:9611:HOH:O	1.95	0.65
2:C:1008:ARG:CZ	2:C:1020:PRO:HB3	2.26	0.65
2:C:814:GLU:HG3	9:C:9712:HOH:O	1.95	0.65
5:F:155:THR:HA	9:F:9647:HOH:O	1.96	0.65
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.43	0.65
2:M:451:LEU:HA	9:M:9532:HOH:O	1.97	0.65
2:M:73:LEU:HB3	9:M:9468:HOH:O	1.97	0.65
2:M:905:ILE:HG12	9:M:9307:HOH:O	1.96	0.65
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.59	0.65
1:B:39:PRO:O	1:B:43:ILE:HG12	1.95	0.65
2:C:336:VAL:HG12	9:C:2001:HOH:O	1.96	0.65
2:C:534:VAL:H	2:C:538:GLN:HE22	1.44	0.65
2:C:611:ILE:HG12	9:C:9584:HOH:O	1.95	0.65
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.62	0.65
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.22	0.65
3:D:475:LYS:HD3	3:D:478:LEU:HD12	1.79	0.65
3:D:646:LYS:HA	3:D:720:LEU:HD23	1.77	0.65
2:M:230:ARG:NE	2:M:237:ARG:HH22	1.94	0.65
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.77	0.65
2:M:829:GLN:NE2	2:M:831:ARG:HD3	2.06	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:150:THR:HG23	5:P:155:THR:HG21	1.79	0.65
1:A:50:GLY:HA3	1:A:173:PRO:HG3	1.78	0.65
3:D:1459:LEU:HD12	3:D:1470:ARG:HH11	1.61	0.65
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.76	0.65
4:E:88:GLU:HA	9:E:9574:HOH:O	1.95	0.65
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.78	0.65
1:A:44:LEU:HD23	1:A:48:ILE:HD11	1.79	0.65
1:B:44:LEU:HD23	1:B:48:ILE:HD11	1.77	0.65
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.62	0.65
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.79	0.65
4:E:25:LYS:HA	4:E:28:GLN:CD	2.16	0.65
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.62	0.65
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.78	0.65
2:M:21:ILE:HD12	2:M:21:ILE:H	1.61	0.65
2:M:282:GLY:HA2	2:M:308:ARG:HH21	1.61	0.65
2:M:338:GLU:HB3	9:M:9771:HOH:O	1.96	0.65
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.79	0.65
3:N:212:ARG:HA	9:N:9240:HOH:O	1.96	0.65
1:A:59:GLU:HG3	1:A:60:ASP:H	1.61	0.65
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.59	0.65
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.10	0.65
1:K:57:TYR:HE1	1:K:163:ASN:HB2	1.62	0.65
3:N:175:VAL:HG13	3:N:217:LYS:CB	2.27	0.65
3:N:781:PRO:HG2	3:N:911:LEU:HD23	1.79	0.65
3:N:9:ARG:HD3	3:N:1456:LYS:HG2	1.79	0.65
1:A:56:VAL:HG13	1:A:142:VAL:HG12	1.78	0.65
3:D:998:GLU:HA	9:D:2729:HOH:O	1.97	0.65
2:M:734:LEU:HA	2:M:737:LEU:HD13	1.79	0.65
3:N:128:TYR:HE2	3:N:458:ALA:HA	1.62	0.65
3:N:907:GLU:HA	9:N:9335:HOH:O	1.96	0.65
1:K:221:HIS:HA	1:K:224:TYR:CE2	2.31	0.65
2:M:1040:LEU:HG	9:M:9264:HOH:O	1.97	0.65
2:M:39:ARG:HE	2:M:39:ARG:HA	1.62	0.65
3:N:11:ALA:HB1	3:N:507:ASN:OD1	1.97	0.65
4:O:31:LEU:HD21	4:O:60:ALA:HB2	1.78	0.65
5:P:412:GLU:OE1	5:P:418:LEU:HD13	1.97	0.65
2:C:184:MET:HE3	2:C:186:VAL:HG13	1.79	0.65
2:C:230:ARG:HG3	9:C:9673:HOH:O	1.96	0.65
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.11	0.65
3:D:1388:ARG:N	3:D:1388:ARG:HD2	2.08	0.65
2:M:875:GLY:HA3	9:M:9227:HOH:O	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1239:ARG:HA	9:N:9644:HOH:O	1.96	0.65
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.77	0.65
1:L:75:VAL:HB	9:L:2024:HOH:O	1.97	0.65
2:M:627:ARG:HG3	2:M:628:PHE:H	1.61	0.65
3:N:1181:GLY:HA3	9:N:9860:HOH:O	1.95	0.65
3:N:1459:LEU:HD12	3:N:1470:ARG:NH1	2.12	0.65
3:N:470:LEU:HD22	3:N:499:VAL:HG13	1.78	0.65
5:P:261:PRO:HG3	9:P:4201:HOH:O	1.97	0.65
1:A:86:VAL:HG12	1:A:124:ASN:ND2	2.11	0.65
2:C:103:LYS:HE2	2:C:103:LYS:HA	1.79	0.65
3:D:1042:ARG:O	3:D:1057:VAL:HB	1.96	0.65
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.78	0.65
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.37	0.65
2:M:266:ARG:HG2	9:M:9612:HOH:O	1.95	0.65
2:M:380:ALA:HB1	9:M:2219:HOH:O	1.97	0.65
3:N:52:PRO:HG3	3:N:80:VAL:HG23	1.78	0.65
1:A:206:THR:HG22	1:A:209:GLU:H	1.62	0.64
3:D:162:ARG:HH22	3:D:434:ARG:HH21	1.43	0.64
2:M:143:SER:HB2	2:M:276:LYS:HE2	1.79	0.64
2:M:17:PRO:HB2	2:M:20:GLU:HB2	1.77	0.64
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.78	0.64
3:N:126:VAL:HG13	3:N:132:TYR:HB2	1.79	0.64
3:N:1310:ARG:NE	3:N:1327:ARG:HB3	2.13	0.64
3:N:484:PRO:O	3:N:489:ARG:HD2	1.97	0.64
3:N:800:LYS:HG3	3:N:830:ALA:HB3	1.79	0.64
2:C:759:THR:HG22	9:C:9784:HOH:O	1.98	0.64
2:C:580:MET:O	2:C:902:ILE:HA	1.98	0.64
3:D:440:VAL:HA	9:D:2195:HOH:O	1.97	0.64
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.78	0.64
1:K:64:GLU:HG3	1:K:165:ILE:HD12	1.79	0.64
3:N:1432:LYS:NZ	3:N:1460:ILE:HB	2.12	0.64
3:N:984:THR:HG22	3:N:987:GLU:CG	2.27	0.64
5:P:130:VAL:HG13	5:P:156:VAL:HG23	1.78	0.64
1:A:193:ASP:HA	9:C:9642:HOH:O	1.95	0.64
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.79	0.64
2:C:946:ARG:HD2	2:C:984:GLU:HB2	1.77	0.64
3:D:1189:ARG:HG2	9:D:9851:HOH:O	1.96	0.64
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.79	0.64
2:M:232:GLU:HA	9:M:9931:HOH:O	1.98	0.64
2:M:462:ASP:HB2	9:M:9913:HOH:O	1.97	0.64
1:K:72:LYS:NZ	2:M:644:VAL:HA	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1034:GLN:HA	3:N:1037:GLN:HE21	1.63	0.64
3:N:983:LEU:HB2	9:N:9836:HOH:O	1.96	0.64
3:D:660:LYS:HA	3:D:663:GLU:HG3	1.79	0.64
2:M:1020:PRO:O	3:N:622:ARG:HD2	1.97	0.64
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.62	0.64
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.97	0.64
3:N:601:ARG:HB2	5:P:318:GLU:OE1	1.97	0.64
5:P:185:GLN:HA	5:P:188:ILE:HD12	1.80	0.64
1:A:88:ARG:HG3	1:A:204:SER:O	1.98	0.64
2:C:1054:THR:HG21	2:C:1079:PRO:CB	2.20	0.64
5:F:286:PRO:HA	9:F:9596:HOH:O	1.97	0.64
1:K:41:ARG:HH11	1:K:177:VAL:HB	1.62	0.64
1:K:48:ILE:HG22	1:K:173:PRO:HD2	1.79	0.64
1:L:220:GLU:HG3	9:L:3319:HOH:O	1.96	0.64
2:M:760:SER:HA	9:M:9228:HOH:O	1.97	0.64
3:N:466:LYS:HD2	3:N:510:GLU:HG2	1.78	0.64
3:N:71:LYS:N	3:N:71:LYS:HD2	2.12	0.64
3:N:984:THR:HG23	3:N:986:ARG:H	1.63	0.64
1:A:153:ALA:HA	1:A:156:HIS:NE2	2.12	0.64
2:C:739:GLU:HG2	9:C:9982:HOH:O	1.96	0.64
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.63	0.64
3:D:806:PHE:O	3:D:808:THR:N	2.31	0.64
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.78	0.64
2:M:575:GLN:HB3	2:M:670:GLN:HA	1.80	0.64
2:M:943:VAL:HG13	2:M:985:GLY:H	1.62	0.64
3:N:794:GLN:HE21	3:N:795:VAL:N	1.95	0.64
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.12	0.64
2:C:606:VAL:HA	9:C:9584:HOH:O	1.95	0.64
2:C:831:ARG:NH2	2:C:999:HIS:HB2	2.12	0.64
3:D:513:ILE:HA	9:D:9584:HOH:O	1.96	0.64
3:D:631:ILE:HG21	3:D:745:MET:HG3	1.80	0.64
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.80	0.64
1:B:162:ILE:HG23	1:B:163:ASN:ND2	2.11	0.64
2:C:1114:GLY:HA2	9:C:2283:HOH:O	1.96	0.64
2:C:403:SER:O	2:C:407:LYS:HD3	1.98	0.64
3:D:1058:ARG:HG3	3:D:1058:ARG:HH11	1.63	0.64
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.98	0.64
3:D:1503:VAL:HG12	9:D:9672:HOH:O	1.97	0.64
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.79	0.64
3:D:873:LEU:HD12	3:D:873:LEU:H	1.63	0.64
3:D:860:LEU:O	3:D:877:PRO:HD2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:401:GLU:O	5:F:405:LEU:HB2	1.97	0.64
1:K:59:GLU:HG3	1:K:60:ASP:H	1.63	0.64
1:L:39:PRO:O	1:L:43:ILE:HG12	1.97	0.64
2:M:159:ILE:HA	9:M:2059:HOH:O	1.96	0.64
3:N:161:LEU:O	3:N:449:SER:HB2	1.98	0.64
3:N:468:LEU:HB3	9:N:9474:HOH:O	1.98	0.64
3:N:65:ARG:HB2	5:P:375:LEU:CA	2.28	0.64
5:P:271:LEU:HD22	5:P:291:ILE:HD11	1.80	0.64
3:N:64:LYS:NZ	5:P:377:ASP:HA	2.12	0.64
2:C:17:PRO:HB2	2:C:20:GLU:HB2	1.80	0.64
2:C:110:GLU:H	2:C:368:THR:HG21	1.63	0.64
3:D:141:ILE:HD13	3:D:450:TYR:H	1.63	0.64
3:D:135:LEU:HD21	3:D:452:ILE:HG13	1.80	0.64
1:L:100:LEU:HD12	1:L:115:LEU:HD21	1.80	0.64
2:M:721:ARG:NH2	2:M:783:ARG:HH21	1.96	0.64
3:N:925:GLU:HB3	9:O:6558:HOH:O	1.98	0.64
9:C:9880:HOH:O	3:D:656:PHE:HA	1.97	0.64
3:D:694:VAL:HA	9:D:2200:HOH:O	1.97	0.64
3:D:6:ARG:HH11	3:D:6:ARG:HB3	1.61	0.64
5:F:132:ARG:NH2	5:F:184:ARG:HH12	1.96	0.64
1:L:44:LEU:HD23	1:L:48:ILE:HD11	1.79	0.64
3:N:794:GLN:NE2	3:N:795:VAL:N	2.47	0.64
3:N:834:THR:HG22	3:N:838:ARG:HE	1.62	0.64
3:N:850:LEU:H	3:N:850:LEU:HD12	1.62	0.64
1:B:112:ARG:HD2	9:B:9726:HOH:O	1.97	0.63
2:C:133:ASP:HB2	2:C:632:ASN:HD21	1.62	0.63
2:M:31:GLN:HB3	2:M:71:TYR:OH	1.98	0.63
2:M:325:ILE:O	2:M:331:ARG:HG3	1.97	0.63
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.18	0.63
3:N:462:GLN:HG3	3:N:513:ILE:HD13	1.79	0.63
2:C:399:ASN:ND2	2:C:568:ALA:HB3	2.13	0.63
2:C:139:GLN:HA	2:C:411:SER:O	1.97	0.63
3:D:149:LYS:HD3	3:D:149:LYS:H	1.61	0.63
3:D:12:LEU:HD11	3:D:512:MET:HG2	1.77	0.63
3:D:690:ALA:HA	9:D:9783:HOH:O	1.97	0.63
3:N:798:GLU:HG2	3:N:799:LYS:H	1.62	0.63
5:P:184:ARG:O	5:P:188:ILE:HG13	1.99	0.63
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.78	0.63
2:C:47:ALA:HB3	9:C:9646:HOH:O	1.97	0.63
1:K:25:LEU:HD11	9:L:4548:HOH:O	1.97	0.63
1:K:42:ARG:HA	9:K:1228:HOH:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1020:PRO:HD2	3:N:622:ARG:HB2	1.79	0.63
2:M:1059:ASP:HA	9:M:9233:HOH:O	1.98	0.63
2:M:84:ARG:NH1	2:M:128:ILE:HG12	2.13	0.63
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.28	0.63
2:M:721:ARG:HG2	9:M:9669:HOH:O	1.98	0.63
3:N:704:ARG:HG2	9:N:9545:HOH:O	1.98	0.63
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.80	0.63
1:A:18:ARG:HD3	1:A:123:MET:HE3	1.81	0.63
1:A:39:PRO:O	1:A:43:ILE:HG12	1.98	0.63
1:A:73:GLU:HG2	9:A:9656:HOH:O	1.97	0.63
1:A:74:ASP:HA	9:A:9794:HOH:O	1.99	0.63
2:C:823:VAL:HG13	9:C:9907:HOH:O	1.98	0.63
1:K:180:GLN:HB3	9:K:1076:HOH:O	1.97	0.63
2:M:404:LEU:HD23	2:M:587:VAL:HG13	1.80	0.63
5:P:266:GLU:HB2	5:P:270:LYS:NZ	2.12	0.63
5:P:94:LEU:HD13	5:P:96:LEU:H	1.62	0.63
1:A:170:VAL:HG21	9:A:9702:HOH:O	1.98	0.63
1:A:42:ARG:HG2	1:A:42:ARG:HH11	1.64	0.63
3:D:1004:THR:OG1	3:D:1036:ARG:HD3	1.98	0.63
3:D:1269:LYS:HD2	9:D:2737:HOH:O	1.98	0.63
3:D:777:PRO:HB2	3:D:912:LYS:HD2	1.80	0.63
1:L:152:PRO:HD2	1:L:155:LYS:HD3	1.80	0.63
1:L:185:ARG:NH1	3:N:692:GLU:HG3	2.13	0.63
2:M:1007:ALA:HB2	9:M:9335:HOH:O	1.98	0.63
2:M:1016:ILE:HD12	3:N:526:PRO:HG2	1.80	0.63
2:M:331:ARG:NH1	2:M:427:VAL:HG13	2.12	0.63
2:M:493:ARG:HG3	9:M:9314:HOH:O	1.97	0.63
3:N:9:ARG:HH12	3:N:11:ALA:HB2	1.63	0.63
3:N:1432:LYS:HZ3	3:N:1460:ILE:HB	1.63	0.63
3:N:172:PRO:HD2	3:N:389:GLU:O	1.98	0.63
3:N:429:SER:HG	3:N:432:TYR:HD2	1.46	0.63
5:P:291:ILE:HD13	5:P:304:VAL:HG13	1.79	0.63
1:B:203:GLY:HA2	9:B:9589:HOH:O	1.99	0.63
2:C:1024:LYS:HB2	9:C:9932:HOH:O	1.97	0.63
2:C:731:GLU:HG3	9:C:9837:HOH:O	1.97	0.63
2:C:987:ILE:HG23	9:C:9757:HOH:O	1.98	0.63
3:D:708:LEU:HD13	3:D:1231:GLU:HA	1.79	0.63
1:L:107:LYS:HD2	9:L:8983:HOH:O	1.98	0.63
2:M:164:PRO:HA	2:M:266:ARG:NH1	2.13	0.63
2:M:953:VAL:HG13	2:M:966:LEU:HD13	1.80	0.63
3:N:1373:ARG:HG2	3:N:1374:GLN:HE21	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.80	0.63
3:N:440:VAL:HG23	9:N:9421:HOH:O	1.98	0.63
1:A:104:GLU:HG3	9:A:9611:HOH:O	1.99	0.63
1:A:18:ARG:O	1:A:207:PRO:HD3	1.99	0.63
2:C:1016:ILE:HD13	2:C:1016:ILE:H	1.63	0.63
2:C:511:GLU:O	2:C:526:PRO:HD3	1.98	0.63
3:D:1394:VAL:HB	3:D:1397:LYS:HB2	1.80	0.63
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.81	0.63
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.24	0.63
1:K:178:ALA:HB3	1:K:198:ARG:HG3	1.80	0.63
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.79	0.63
2:M:528:GLU:HA	9:M:9431:HOH:O	1.99	0.63
3:N:107:ASP:HA	9:N:9514:HOH:O	1.99	0.63
3:N:1175:ILE:O	3:N:1179:GLU:HG3	1.97	0.63
3:N:441:ARG:HG2	9:N:9718:HOH:O	1.98	0.63
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.64	0.63
3:D:1215:VAL:HB	9:D:9841:HOH:O	1.99	0.63
2:M:1057:SER:HB2	3:N:622:ARG:O	1.99	0.63
2:M:129:ILE:HG22	2:M:130:ASN:N	2.14	0.63
2:M:164:PRO:HA	2:M:266:ARG:NH2	2.12	0.63
2:M:328:LEU:HA	9:M:9297:HOH:O	1.98	0.63
2:M:567:GLN:HB3	2:M:997:LEU:HD22	1.80	0.63
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.81	0.63
3:D:1150:ALA:O	3:D:1151:ARG:HD3	1.99	0.63
3:D:86:ARG:O	3:D:522:PRO:HD2	1.99	0.63
3:D:574:LEU:O	3:D:578:VAL:HG23	1.99	0.63
5:F:220:LEU:HD12	5:F:243:ILE:HD11	1.81	0.63
1:L:212:ASN:HB2	9:L:1267:HOH:O	1.98	0.63
2:M:129:ILE:HD11	9:M:9705:HOH:O	1.98	0.63
3:N:545:ARG:HD2	9:P:1680:HOH:O	1.98	0.63
3:N:598:ARG:HH11	3:N:598:ARG:HG2	1.63	0.63
3:N:806:PHE:O	3:N:808:THR:N	2.32	0.63
4:O:94:PRO:HG2	9:O:6584:HOH:O	1.97	0.63
3:N:65:ARG:CB	5:P:375:LEU:HA	2.26	0.63
5:P:402:ASN:HA	9:P:3207:HOH:O	1.99	0.63
2:C:1085:PHE:CD2	3:D:1468:LEU:HA	2.33	0.62
3:D:1052:THR:HG23	9:D:2494:HOH:O	1.99	0.62
3:D:1209:LEU:HG	3:D:1211:MET:SD	2.39	0.62
3:D:966:GLU:HA	3:D:969:ARG:NH1	2.14	0.62
5:F:231:ARG:HB3	5:F:233:PHE:CE2	2.34	0.62
1:K:14:ARG:HB3	9:K:1738:HOH:O	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1104:GLU:HB2	9:M:2124:HOH:O	1.99	0.62
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.33	0.62
3:D:1068:LEU:HG	3:D:1072:ILE:HG12	1.80	0.62
3:D:1440:PHE:HB2	3:D:1442:ASN:ND2	2.15	0.62
3:D:521:PRO:HB2	3:D:524:LEU:HD12	1.80	0.62
3:D:984:THR:HG22	3:D:987:GLU:CG	2.27	0.62
3:D:988:ARG:HD2	9:D:9919:HOH:O	1.99	0.62
4:E:74:VAL:HG12	4:E:79:LEU:HD21	1.80	0.62
1:K:100:LEU:HD12	1:K:115:LEU:HD21	1.81	0.62
1:K:39:PRO:O	1:K:43:ILE:HG12	1.99	0.62
1:L:88:ARG:HB2	9:L:1335:HOH:O	1.97	0.62
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.28	0.62
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.80	0.62
3:N:1332:PRO:HD2	9:N:2721:HOH:O	1.98	0.62
3:N:1428:ALA:O	3:N:1431:THR:HG23	1.99	0.62
5:P:151:LEU:HB2	5:P:155:THR:OG1	1.99	0.62
5:P:361:LEU:HB3	9:P:1329:HOH:O	1.98	0.62
1:B:176:ARG:HB2	9:B:9702:HOH:O	1.99	0.62
3:D:810:GLU:O	3:D:813:LEU:HG	2.00	0.62
2:M:1049:LEU:O	2:M:1053:LEU:HD23	1.99	0.62
2:M:614:ARG:HG3	9:M:9292:HOH:O	2.00	0.62
3:N:103:TRP:HZ2	3:N:604:THR:HG23	1.63	0.62
3:N:871:LYS:HE2	3:N:873:LEU:HD21	1.79	0.62
3:N:890:VAL:HG13	3:N:926:LYS:HD3	1.81	0.62
1:A:78:ILE:HA	9:A:9585:HOH:O	1.99	0.62
2:C:752:GLY:H	2:C:792:VAL:HB	1.64	0.62
3:D:1390:LEU:HA	9:D:9843:HOH:O	1.99	0.62
3:D:604:THR:HA	3:D:607:LEU:HD12	1.81	0.62
3:D:616:GLN:O	3:D:619:LEU:HB3	1.99	0.62
3:D:563:PRO:HG3	5:F:188:ILE:HG21	1.80	0.62
3:N:1279:GLY:O	3:N:1318:TYR:HA	2.00	0.62
3:N:607:LEU:HD23	9:N:2546:HOH:O	1.99	0.62
3:D:1097:LYS:O	3:D:1101:VAL:HG23	1.99	0.62
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.81	0.62
3:D:551:ASN:HA	9:D:9809:HOH:O	1.99	0.62
3:D:972:LEU:HB2	9:D:2563:HOH:O	2.00	0.62
3:D:999:THR:HA	3:D:1002:LYS:HD2	1.82	0.62
2:M:586:ARG:HB3	2:M:586:ARG:NH1	2.13	0.62
3:N:146:PRO:HA	9:N:9595:HOH:O	1.99	0.62
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.29	0.62
3:N:684:LYS:HB3	3:N:686:GLU:OE2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:TYR:HE1	1:A:163:ASN:HB2	1.63	0.62
1:B:52:ALA:HB3	9:B:9602:HOH:O	1.98	0.62
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.82	0.62
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	2.29	0.62
3:D:1262:LEU:HD23	3:D:1352:ILE:HG12	1.80	0.62
3:D:220:ARG:HA	9:D:9675:HOH:O	1.99	0.62
1:K:226:SER:O	1:K:228:PRO:HD3	1.98	0.62
1:L:108:GLU:HB2	9:L:1445:HOH:O	2.00	0.62
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.64	0.62
2:M:719:PRO:HB3	9:M:9756:HOH:O	1.98	0.62
3:N:1034:GLN:HA	3:N:1037:GLN:NE2	2.14	0.62
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.99	0.62
3:N:1421:LEU:HA	9:N:9377:HOH:O	1.98	0.62
8:N:9101:G4P:H5"	8:N:9101:G4P:H8	1.80	0.62
2:C:195:LEU:O	2:C:199:VAL:HG23	1.98	0.62
2:C:437:ARG:NH2	2:C:488:ALA:HA	2.14	0.62
1:A:180:GLN:NE2	2:C:934:PHE:HB2	2.14	0.62
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.00	0.62
3:D:631:ILE:HG12	3:D:743:ASP:O	1.99	0.62
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.82	0.62
3:N:1012:GLU:HG2	3:N:1021:TYR:OH	1.99	0.62
3:N:1394:VAL:HG13	9:N:2001:HOH:O	1.99	0.62
9:N:9288:HOH:O	4:O:54:LEU:HD11	2.00	0.62
1:B:206:THR:HG22	1:B:209:GLU:H	1.64	0.62
1:B:20:TYR:HB3	9:B:9603:HOH:O	1.99	0.62
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.82	0.62
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.34	0.62
2:C:442:GLU:HG2	2:C:454:SER:CB	2.28	0.62
5:F:158:GLU:HA	5:F:161:GLN:CD	2.19	0.62
2:M:492:ASP:HB2	9:M:9314:HOH:O	1.99	0.62
2:M:758:ARG:HG3	9:M:9349:HOH:O	2.00	0.62
3:N:1040:GLY:O	3:N:1060:SER:HB3	2.00	0.62
3:N:1271:LYS:HG3	9:N:9632:HOH:O	2.00	0.62
1:A:86:VAL:HG12	1:A:124:ASN:HD22	1.65	0.62
1:B:59:GLU:HG3	1:B:60:ASP:H	1.64	0.62
2:C:773:LEU:O	2:C:777:ILE:HG13	2.00	0.62
2:C:911:GLU:O	2:C:915:LYS:HG2	1.98	0.62
2:C:958:THR:HG22	9:C:2770:HOH:O	1.99	0.62
3:D:1378:TYR:OH	3:D:1431:THR:HG22	1.99	0.62
3:D:464:LEU:HA	9:D:9601:HOH:O	2.00	0.62
1:L:224:TYR:HB2	9:L:4548:HOH:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:225:SER:HB2	9:M:2105:HOH:O	2.00	0.62
2:M:497:ALA:HA	2:M:515:ALA:HA	1.82	0.62
2:M:536:PRO:HB3	2:M:906:PHE:CD1	2.29	0.62
3:N:1046:GLN:OE1	3:N:1079:LYS:HD3	1.99	0.62
5:P:166:LEU:HD13	5:P:170:HIS:HB2	1.82	0.62
5:P:195:VAL:HG11	5:P:217:ASN:OD1	2.00	0.62
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.82	0.62
2:C:186:VAL:HG23	2:C:187:ASN:H	1.64	0.62
2:C:497:ALA:HA	2:C:515:ALA:HA	1.81	0.62
2:C:793:PRO:HB3	9:C:9926:HOH:O	1.99	0.62
3:D:1046:GLN:HB3	3:D:1052:THR:HG22	1.81	0.62
3:D:1243:THR:HB	3:D:1253:THR:HB	1.80	0.62
3:D:502:PHE:CE2	3:D:1452:ILE:HG23	2.34	0.62
3:D:701:LEU:O	3:D:747:VAL:HG23	2.00	0.62
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.00	0.62
1:B:64:GLU:HG3	1:B:165:ILE:HG21	1.80	0.61
2:C:189:ARG:HB3	9:C:9840:HOH:O	1.99	0.61
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.82	0.61
3:D:148:GLU:HG3	9:D:3099:HOH:O	1.99	0.61
3:D:152:LEU:HD23	3:D:152:LEU:H	1.64	0.61
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.80	0.61
3:D:484:PRO:O	3:D:489:ARG:HD2	2.00	0.61
2:M:610:ARG:HB2	9:M:9214:HOH:O	2.00	0.61
2:M:911:GLU:HB3	2:M:912:PRO:HD3	1.82	0.61
3:N:130:SER:HA	3:N:572:ARG:NH1	2.14	0.61
3:N:884:ARG:HD3	3:N:888:GLU:OE2	1.99	0.61
4:O:54:LEU:O	4:O:54:LEU:HD23	2.00	0.61
1:A:197:LEU:HD23	1:A:197:LEU:H	1.66	0.61
1:B:117:VAL:HG21	9:B:9656:HOH:O	1.98	0.61
1:B:30:ARG:HD3	9:B:9697:HOH:O	2.00	0.61
2:C:207:LEU:O	2:C:211:LEU:HB3	2.00	0.61
2:C:376:ARG:HB2	2:C:377:PRO:HD3	1.81	0.61
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	2.00	0.61
5:F:85:LEU:HD12	9:F:9829:HOH:O	2.00	0.61
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.81	0.61
2:M:220:GLY:HA3	9:M:9787:HOH:O	1.99	0.61
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.11	0.61
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.81	0.61
2:C:28:ARG:HG3	9:C:2013:HOH:O	2.01	0.61
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.82	0.61
2:C:327:HIS:HB3	2:C:330:ASN:HD22	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:909:ALA:HB1	2:C:914:ILE:HD11	1.83	0.61
3:D:211:VAL:HG13	3:D:393:ILE:HA	1.83	0.61
3:D:39:PRO:HB3	3:D:45:PHE:O	2.00	0.61
5:F:394:ARG:HD3	9:F:2104:HOH:O	1.99	0.61
1:L:73:GLU:HB3	9:L:1341:HOH:O	1.98	0.61
2:M:611:ILE:HD11	2:M:641:PRO:HG3	1.81	0.61
2:M:961:GLU:HG2	9:M:2341:HOH:O	2.00	0.61
1:A:42:ARG:HD3	1:B:35:THR:HG23	1.83	0.61
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.81	0.61
3:D:1310:ARG:HD2	9:D:2631:HOH:O	2.00	0.61
3:D:1438:ALA:O	3:D:1443:THR:HG22	2.00	0.61
3:D:664:LYS:HG2	9:D:2544:HOH:O	2.00	0.61
1:K:18:ARG:O	1:K:207:PRO:HD3	2.00	0.61
2:M:1054:THR:HG23	2:M:1059:ASP:HB2	1.81	0.61
3:N:434:ARG:HG3	9:N:9455:HOH:O	2.00	0.61
3:N:87:ARG:HD3	3:N:523:ASP:OD2	2.00	0.61
4:O:40:LEU:HB3	9:O:2072:HOH:O	2.00	0.61
1:A:36:LEU:O	1:A:39:PRO:HD2	2.01	0.61
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.35	0.61
3:D:1197:ARG:HH12	3:D:1377:LYS:HB2	1.66	0.61
3:D:191:LEU:HD13	3:D:195:VAL:HG11	1.83	0.61
5:F:271:LEU:HD23	5:F:295:MET:HG3	1.82	0.61
1:L:20:TYR:OH	1:L:198:ARG:HD2	1.99	0.61
2:M:1013:TYR:CE2	5:P:341:PRO:HD2	2.34	0.61
2:M:1098:ASP:HB2	3:N:21:TRP:CZ2	2.35	0.61
2:M:141:HIS:O	2:M:331:ARG:HA	2.00	0.61
2:M:412:ALA:HB1	2:M:419:THR:HG21	1.81	0.61
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.00	0.61
3:N:1403:LEU:HA	9:N:9392:HOH:O	2.00	0.61
3:N:568:ARG:HA	3:N:571:LYS:HE3	1.82	0.61
5:P:308:LEU:O	5:P:312:GLN:HG3	2.01	0.61
1:B:128:HIS:HB3	9:B:9670:HOH:O	2.00	0.61
2:C:794:PRO:HB3	9:C:2362:HOH:O	1.99	0.61
3:D:3:LYS:H	3:D:3:LYS:HD3	1.65	0.61
3:D:895:VAL:O	3:D:899:LEU:HD12	2.01	0.61
1:L:66:SER:HA	9:L:6317:HOH:O	1.99	0.61
2:M:496:ILE:HG12	2:M:531:PHE:HB2	1.82	0.61
3:N:2:LYS:HB2	9:N:9489:HOH:O	2.00	0.61
3:N:81:THR:HB	3:N:85:VAL:CG2	2.31	0.61
3:N:991:GLN:HA	9:N:9221:HOH:O	2.00	0.61
5:P:148:LYS:HA	9:P:1661:HOH:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:353:GLU:HG2	5:P:417:LYS:HB3	1.81	0.61
1:A:96:THR:HG21	9:A:9575:HOH:O	2.00	0.61
2:C:1069:ALA:O	2:C:1074:GLU:HG2	2.01	0.61
2:C:413:LEU:HD12	2:C:413:LEU:H	1.66	0.61
3:D:580:ALA:HA	3:D:584:ASN:OD1	2.00	0.61
5:F:308:LEU:O	5:F:312:GLN:HG2	2.01	0.61
2:M:195:LEU:HB3	2:M:238:LEU:HD21	1.81	0.61
3:N:1389:LEU:H	3:N:1389:LEU:CD2	2.12	0.61
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.81	0.61
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.82	0.61
5:P:94:LEU:HD12	5:P:97:GLU:N	2.15	0.61
1:A:223:THR:HB	9:A:9644:HOH:O	2.00	0.61
1:A:227:ASN:H	1:A:227:ASN:HD22	1.48	0.61
1:A:30:ARG:HH22	1:B:155:LYS:NZ	1.98	0.61
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.83	0.61
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.82	0.61
5:F:192:LEU:O	5:F:196:VAL:HG23	2.01	0.61
1:K:17:GLY:HA3	9:K:3120:HOH:O	2.00	0.61
2:M:189:ARG:HH21	2:M:243:ARG:NH2	1.98	0.61
2:M:87:ASP:HB3	9:M:9773:HOH:O	2.00	0.61
2:M:910:LYS:HB3	9:M:9220:HOH:O	2.01	0.61
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.30	0.61
3:N:1342:GLU:HB2	9:N:2770:HOH:O	1.99	0.61
2:C:1049:LEU:O	2:C:1053:LEU:HD23	2.00	0.61
2:C:21:ILE:HD12	2:C:21:ILE:H	1.66	0.61
2:C:762:LYS:HE2	2:C:771:GLU:OE1	2.01	0.61
3:D:1115:THR:HB	9:D:2390:HOH:O	2.01	0.61
5:P:122:LEU:HG	5:P:126:LEU:HD23	1.83	0.61
1:B:7:LYS:HB3	1:B:7:LYS:NZ	2.16	0.61
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.82	0.61
3:D:14:SER:HB2	3:D:17:LYS:HG3	1.83	0.61
3:D:172:PRO:HD2	3:D:389:GLU:O	2.00	0.61
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.31	0.61
5:F:370:LYS:HE3	5:F:371:LEU:HG	1.83	0.61
2:M:647:GLN:HA	9:M:9256:HOH:O	2.00	0.61
3:N:836:VAL:HG13	9:N:9636:HOH:O	2.01	0.61
5:P:297:PRO:HA	9:P:7238:HOH:O	2.01	0.61
5:P:372:ARG:HB3	9:P:2070:HOH:O	2.00	0.61
5:P:393:THR:HG22	5:P:394:ARG:N	2.16	0.61
1:A:70:GLY:HA2	1:A:133:GLU:HG2	1.83	0.60
2:C:1034:GLU:HG2	9:C:9872:HOH:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:507:ARG:HH11	2:C:507:ARG:HB2	1.65	0.60
2:C:724:ARG:HG3	9:C:9568:HOH:O	2.01	0.60
3:D:86:ARG:NH1	3:D:522:PRO:HB2	2.16	0.60
2:M:439:CYS:HB2	2:M:541:SER:HB3	1.82	0.60
2:M:721:ARG:HH21	2:M:783:ARG:HH21	1.48	0.60
2:M:96:ALA:HB2	9:M:9250:HOH:O	2.00	0.60
3:N:743:ASP:HA	9:N:9297:HOH:O	2.00	0.60
3:D:1044:LEU:HA	9:D:2083:HOH:O	2.00	0.60
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.01	0.60
5:F:191:ASN:HA	9:F:9560:HOH:O	2.00	0.60
2:M:730:SER:O	2:M:734:LEU:HD23	2.01	0.60
2:M:881:ASN:H	2:M:881:ASN:HD22	1.47	0.60
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.66	0.60
2:C:18:LEU:HD12	2:C:18:LEU:H	1.67	0.60
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.36	0.60
2:C:893:ALA:HB1	9:C:9860:HOH:O	1.99	0.60
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.36	0.60
2:C:1115:LEU:HD22	3:D:88:TYR:HD1	1.65	0.60
5:F:398:ARG:HG2	5:F:402:ASN:HD22	1.66	0.60
2:M:1004:LYS:HE3	2:M:1027:PHE:HE1	1.66	0.60
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.83	0.60
2:M:71:TYR:HB2	9:M:9393:HOH:O	2.01	0.60
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.82	0.60
3:N:860:LEU:HB2	3:N:861:GLN:NE2	2.16	0.60
1:A:227:ASN:HD22	1:A:227:ASN:N	2.00	0.60
2:C:1087:VAL:HG12	2:C:1091:GLU:OE1	2.01	0.60
2:C:432:ARG:HG3	2:C:432:ARG:HH11	1.66	0.60
2:C:838:LYS:HB3	2:C:848:VAL:HG22	1.82	0.60
3:D:17:LYS:HG2	9:D:2736:HOH:O	2.02	0.60
2:C:949:LYS:HD2	3:D:796:ARG:HH21	1.67	0.60
3:D:864:VAL:HG12	3:D:865:THR:H	1.66	0.60
2:M:707:ARG:HG2	9:M:9461:HOH:O	2.02	0.60
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.30	0.60
3:N:838:ARG:HB3	9:N:9286:HOH:O	2.00	0.60
3:N:98:PRO:HG2	3:N:462:GLN:NE2	2.15	0.60
5:P:142:ARG:NH1	5:P:142:ARG:HB3	2.16	0.60
5:P:225:GLU:HB3	5:P:226:LYS:HZ2	1.65	0.60
1:A:227:ASN:ND2	1:A:227:ASN:H	2.00	0.60
1:B:67:THR:HA	9:B:9649:HOH:O	2.02	0.60
2:C:15:LEU:HD22	9:C:9604:HOH:O	2.01	0.60
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:119:SER:HB2	3:D:123:LEU:N	2.13	0.60
3:D:1406:ARG:HA	9:D:9597:HOH:O	2.01	0.60
3:D:754:PHE:HE2	3:D:1476:THR:HG21	1.66	0.60
4:E:40:LEU:HD21	4:E:67:GLU:HA	1.82	0.60
1:K:44:LEU:HD23	1:K:48:ILE:HD11	1.83	0.60
1:L:123:MET:HG3	9:L:2931:HOH:O	2.02	0.60
1:L:162:ILE:HG12	9:L:4752:HOH:O	2.00	0.60
1:L:226:SER:O	1:L:228:PRO:HD3	2.02	0.60
3:N:177:ALA:HA	3:N:199:LEU:HD13	1.83	0.60
3:N:490:ALA:HA	9:N:9668:HOH:O	1.99	0.60
5:P:198:ILE:HA	9:P:8888:HOH:O	2.01	0.60
1:A:134:GLU:HB3	9:A:9569:HOH:O	2.01	0.60
1:B:73:GLU:HA	9:B:9614:HOH:O	2.01	0.60
2:C:833:LEU:HD11	2:C:849:VAL:HG21	1.84	0.60
3:D:493:ARG:CD	3:D:1390:LEU:HD21	2.31	0.60
3:D:500:ARG:HH22	3:D:1388:ARG:HE	1.50	0.60
3:D:719:VAL:O	3:D:721:VAL:HG13	2.01	0.60
3:D:536:ALA:HA	5:F:315:VAL:O	2.01	0.60
1:K:211:LEU:O	1:K:215:VAL:HG13	2.01	0.60
2:M:203:ASP:O	2:M:207:LEU:HB2	2.01	0.60
2:M:234:ALA:HB1	9:M:9363:HOH:O	2.01	0.60
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.83	0.60
3:N:1258:ARG:HG2	3:N:1262:LEU:HD13	1.82	0.60
2:M:1096:ALA:O	3:N:13:ALA:HB2	2.01	0.60
3:N:123:LEU:HD11	3:N:152:LEU:HD22	1.84	0.60
3:N:858:VAL:HA	9:N:9450:HOH:O	1.99	0.60
1:A:23:PHE:HE1	1:A:208:LEU:HD22	1.67	0.60
2:C:204:GLN:HB3	2:C:222:MET:HG2	1.83	0.60
2:C:208:ALA:HB3	9:C:9874:HOH:O	2.01	0.60
3:D:1095:THR:O	3:D:1099:VAL:HG23	2.01	0.60
3:D:598:ARG:HB2	9:D:3283:HOH:O	2.00	0.60
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.16	0.60
5:F:234:LYS:HB2	9:F:9575:HOH:O	2.01	0.60
1:K:110:LYS:HD3	9:K:1727:HOH:O	2.01	0.60
2:M:221:LEU:HG	9:M:9323:HOH:O	2.02	0.60
3:N:9:ARG:NH1	3:N:11:ALA:HB2	2.15	0.60
3:N:1290:LEU:HD22	9:N:9440:HOH:O	2.00	0.60
3:N:1301:LYS:HD2	9:N:9307:HOH:O	2.00	0.60
3:N:486:ARG:HH21	3:N:489:ARG:NE	2.00	0.60
3:N:728:LEU:HD22	3:N:745:MET:SD	2.42	0.60
3:N:817:GLU:O	3:N:821:VAL:HG23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:902:LEU:HD11	9:N:2304:HOH:O	2.00	0.60
2:C:1106:ASP:HA	9:C:9776:HOH:O	2.00	0.60
2:C:218:VAL:HG11	9:C:9905:HOH:O	2.01	0.60
2:C:722:ILE:HG21	2:C:821:GLU:OE1	2.02	0.60
2:C:881:ASN:HD22	2:C:881:ASN:H	1.47	0.60
3:D:1314:LYS:HA	9:D:2549:HOH:O	2.00	0.60
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.82	0.60
3:D:625:TYR:O	3:D:749:VAL:HG23	2.01	0.60
2:C:1002:GLU:HG3	3:D:744:GLN:HE22	1.66	0.60
5:F:138:SER:O	5:F:141:VAL:HG12	2.01	0.60
5:F:369:LEU:HD23	9:F:2056:HOH:O	2.01	0.60
3:N:1277:ILE:HG22	3:N:1278:ASP:N	2.17	0.60
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.83	0.60
5:P:93:LEU:HG	5:P:190:ALA:CB	2.32	0.60
5:P:363:GLU:O	5:P:367:MET:HG2	2.02	0.60
1:B:94:LEU:HD11	1:B:119:ASP:HB2	1.82	0.60
3:D:998:GLU:O	3:D:1002:LYS:HG3	2.01	0.60
3:D:462:GLN:HG2	3:D:466:LYS:HE3	1.82	0.60
2:M:295:ASP:HB2	9:M:2030:HOH:O	2.01	0.60
2:M:370:ALA:HB1	5:P:280:GLN:HB2	1.83	0.60
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.41	0.60
3:D:1415:VAL:HG21	9:D:9816:HOH:O	2.01	0.60
3:D:240:GLU:HA	9:D:3064:HOH:O	2.00	0.60
5:F:102:LEU:HB2	5:F:187:LEU:HD12	1.84	0.60
3:D:616:GLN:HB2	5:F:326:ASP:HB2	1.84	0.60
5:F:92:PRO:HB2	9:F:9606:HOH:O	2.02	0.60
1:L:73:GLU:HG3	1:L:130:ALA:HA	1.84	0.60
2:M:480:THR:HG22	2:M:482:GLU:H	1.66	0.60
2:M:660:ALA:HB1	2:M:667:ALA:O	2.02	0.60
2:M:946:ARG:HD2	2:M:984:GLU:HB2	1.83	0.60
3:N:654:LYS:HD3	3:N:674:ARG:NH1	2.16	0.60
3:N:698:LYS:HG3	4:O:59:ASN:HD21	1.67	0.60
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.83	0.60
5:P:367:MET:HB3	5:P:370:LYS:NZ	2.17	0.60
1:A:100:LEU:HD12	1:A:115:LEU:HD21	1.83	0.59
1:B:191:ASP:HB2	9:B:9697:HOH:O	2.02	0.59
2:C:1013:TYR:HB3	2:C:1018:GLN:HE21	1.66	0.59
3:D:1100:ASP:HB3	3:D:1440:PHE:HZ	1.66	0.59
3:D:131:LYS:HA	3:D:456:MET:HG3	1.84	0.59
4:E:47:LYS:HD3	9:E:9670:HOH:O	2.02	0.59
3:D:565:ILE:HG21	5:F:84:TYR:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.84	0.59
3:N:98:PRO:O	3:N:458:ALA:HB3	2.02	0.59
4:O:40:LEU:HB2	4:O:45:ARG:NE	2.17	0.59
5:P:361:LEU:HD11	5:P:408:LEU:HD13	1.84	0.59
1:A:219:ARG:NH1	1:B:219:ARG:HG2	2.18	0.59
2:C:405:ARG:HH22	2:C:409:ARG:NH2	1.99	0.59
2:C:453:THR:HA	9:C:9566:HOH:O	2.02	0.59
2:C:69:LEU:HB3	9:C:9789:HOH:O	2.01	0.59
3:D:119:SER:H	3:D:123:LEU:CD1	2.15	0.59
3:D:1380:GLU:HG2	9:D:9843:HOH:O	2.02	0.59
3:D:195:VAL:HB	3:D:205:TYR:HB2	1.84	0.59
3:D:592:THR:HG21	9:D:9883:HOH:O	2.00	0.59
2:M:172:ILE:HG12	2:M:186:VAL:HG12	1.84	0.59
2:M:266:ARG:CD	2:M:288:ARG:HH12	2.14	0.59
2:M:874:LEU:HD13	3:N:783:ARG:HB3	1.84	0.59
3:N:1149:LEU:HD11	3:N:1160:LEU:HB3	1.84	0.59
3:N:116:LEU:HD11	3:N:465:LEU:HG	1.84	0.59
2:C:585:GLU:HB3	2:C:589:ARG:HH22	1.66	0.59
3:D:488:ARG:HB3	3:D:488:ARG:NH1	2.18	0.59
5:F:415:THR:O	5:F:417:LYS:HG3	2.01	0.59
2:M:499:ALA:HA	2:M:532:MET:HE3	1.85	0.59
3:N:574:LEU:O	3:N:578:VAL:HG23	2.02	0.59
5:P:323:ASP:O	5:P:325:LYS:HG2	2.02	0.59
2:M:19:THR:HG21	2:M:124:ASP:O	2.02	0.59
1:K:72:LYS:HZ1	2:M:644:VAL:HA	1.68	0.59
2:M:606:VAL:CG2	2:M:645:VAL:HG22	2.32	0.59
2:M:579:VAL:CG1	2:M:887:GLU:HG3	2.32	0.59
3:N:1189:ARG:HB3	3:N:1189:ARG:NH1	2.16	0.59
3:N:9:ARG:HD3	3:N:1456:LYS:CG	2.32	0.59
3:N:473:LEU:HD13	9:N:9510:HOH:O	2.02	0.59
3:N:9:ARG:HG3	3:N:1455:LYS:O	2.03	0.59
1:A:226:SER:O	1:A:228:PRO:HD3	2.01	0.59
2:C:266:ARG:HB3	9:C:9842:HOH:O	2.01	0.59
2:C:31:GLN:HB3	9:C:2301:HOH:O	2.02	0.59
2:C:728:HIS:HB3	2:C:729:LEU:HD22	1.84	0.59
2:C:787:ASP:HA	9:C:9784:HOH:O	2.01	0.59
2:C:814:GLU:HA	9:C:9961:HOH:O	2.01	0.59
2:C:921:ALA:HA	9:C:2761:HOH:O	2.02	0.59
3:D:1097:LYS:HB3	9:D:9630:HOH:O	2.03	0.59
3:D:487:ALA:HB3	3:D:488:ARG:HE	1.66	0.59
4:E:23:VAL:HG21	9:E:9593:HOH:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1054:THR:HG22	2:M:1055:LEU:N	2.17	0.59
2:M:1055:LEU:HD22	2:M:1066:ALA:HB2	1.84	0.59
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.84	0.59
2:M:507:ARG:HG3	9:M:9830:HOH:O	2.02	0.59
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.01	0.59
3:N:598:ARG:HG2	3:N:598:ARG:NH1	2.17	0.59
3:N:84:ILE:HG22	9:N:9289:HOH:O	2.03	0.59
1:A:92:PRO:HA	9:A:9625:HOH:O	2.02	0.59
2:C:145:GLY:H	2:C:163:ILE:HG23	1.67	0.59
2:C:165:LEU:HD22	2:C:418:LEU:HD11	1.84	0.59
3:D:171:LEU:HD13	3:D:389:GLU:C	2.23	0.59
3:D:496:LEU:HG	3:D:500:ARG:HG2	1.85	0.59
3:D:781:PRO:HG2	3:D:911:LEU:HD23	1.83	0.59
1:K:2:LEU:HA	1:K:6:LEU:HD22	1.84	0.59
1:L:59:GLU:HG3	1:L:60:ASP:H	1.67	0.59
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.84	0.59
3:N:131:LYS:HB3	3:N:568:ARG:HG2	1.83	0.59
2:C:660:ALA:HB1	2:C:667:ALA:O	2.03	0.59
3:D:132:TYR:HA	9:D:9996:HOH:O	2.01	0.59
3:D:1489:GLN:HB2	9:D:9922:HOH:O	2.02	0.59
3:D:800:LYS:HE2	3:D:830:ALA:HB3	1.84	0.59
1:K:192:LEU:HG	9:K:2051:HOH:O	2.01	0.59
1:K:212:ASN:O	1:K:215:VAL:HG22	2.03	0.59
2:M:369:PRO:HA	9:M:9861:HOH:O	2.03	0.59
2:M:569:VAL:HG12	2:M:996:LYS:O	2.03	0.59
2:M:63:GLY:HA3	2:M:103:LYS:HG2	1.85	0.59
3:N:1014:ASN:HB3	9:N:9749:HOH:O	2.02	0.59
3:N:1114:THR:CG2	3:N:1195:GLN:HB2	2.32	0.59
3:N:662:GLU:OE2	3:N:669:ASN:HA	2.03	0.59
5:P:181:GLU:O	5:P:184:ARG:HB3	2.01	0.59
5:P:316:SER:OG	5:P:318:GLU:HG3	2.02	0.59
1:B:102:LYS:HD3	9:B:9822:HOH:O	2.03	0.59
2:C:184:MET:CE	2:C:186:VAL:HG13	2.32	0.59
2:C:35:PRO:HD2	2:C:38:LYS:HE2	1.83	0.59
2:C:710:ILE:CD1	2:C:758:ARG:HE	2.12	0.59
2:C:761:PHE:HB3	9:C:9910:HOH:O	2.01	0.59
9:C:2004:HOH:O	4:E:31:LEU:HD23	2.03	0.59
5:F:282:LEU:HD12	5:F:284:ARG:HB2	1.84	0.59
2:M:230:ARG:HE	2:M:237:ARG:HH22	1.48	0.59
2:M:386:PHE:HA	9:M:9269:HOH:O	2.01	0.59
2:M:691:SER:HB2	2:M:858:MET:SD	2.43	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:769:PRO:HA	9:M:9896:HOH:O	2.02	0.59
2:M:927:GLY:HA2	2:M:930:LYS:NZ	2.18	0.59
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.82	0.59
3:N:1114:THR:HB	3:N:1195:GLN:OE1	2.02	0.59
3:N:39:PRO:HB3	3:N:45:PHE:C	2.23	0.59
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.68	0.59
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.67	0.59
2:C:328:LEU:HB2	2:C:433:THR:CG2	2.32	0.59
2:C:386:PHE:HA	9:C:9782:HOH:O	2.02	0.59
3:D:770:LEU:HD11	3:D:919:PHE:CE2	2.38	0.59
1:L:20:TYR:HE2	1:L:198:ARG:HB3	1.67	0.59
2:M:1001:VAL:HG23	9:M:9493:HOH:O	2.02	0.59
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.03	0.59
2:M:12:VAL:HG13	2:M:13:ILE:HG12	1.85	0.59
3:N:1101:VAL:HG21	3:N:1424:VAL:HG22	1.84	0.59
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.85	0.59
5:P:113:ILE:HG23	5:P:127:ILE:HB	1.84	0.59
1:B:212:ASN:O	1:B:215:VAL:HG22	2.03	0.59
2:C:328:LEU:HD22	2:C:433:THR:O	2.03	0.59
3:D:1440:PHE:HB2	3:D:1442:ASN:HD21	1.66	0.59
3:D:1459:LEU:HB3	3:D:1465:ASN:HD22	1.67	0.59
2:M:144:PRO:O	2:M:276:LYS:HD3	2.03	0.59
2:M:837:ASP:HA	9:M:9267:HOH:O	2.03	0.59
3:N:1374:GLN:OE1	3:N:1377:LYS:HD3	2.02	0.59
3:N:19:ARG:HG3	9:N:9537:HOH:O	2.02	0.59
3:N:605:ASP:HA	3:N:610:LYS:HG3	1.85	0.59
3:N:703:ASN:ND2	3:N:713:ILE:HG12	2.18	0.59
3:D:565:ILE:HD12	3:D:565:ILE:H	1.68	0.58
5:F:132:ARG:HH21	5:F:184:ARG:HH12	1.51	0.58
3:N:1096:ARG:NH1	3:N:1096:ARG:HB2	2.17	0.58
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.85	0.58
3:N:499:VAL:O	3:N:503:LEU:HB2	2.03	0.58
3:N:887:ALA:HA	9:N:9628:HOH:O	2.03	0.58
2:C:44:ILE:HG13	2:C:344:PHE:CE2	2.38	0.58
2:C:964:LYS:HE3	9:C:2189:HOH:O	2.02	0.58
3:D:430:ASP:HB2	9:D:2014:HOH:O	2.03	0.58
9:C:9643:HOH:O	3:D:532:GLY:HA2	2.03	0.58
2:M:374:ASN:O	2:M:377:PRO:HD2	2.03	0.58
2:M:420:ARG:HD2	2:M:420:ARG:H	1.68	0.58
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.85	0.58
2:M:537:LYS:HA	2:M:545:ASN:ND2	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:119:SER:HB2	3:N:123:LEU:N	2.17	0.58
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.37	0.58
3:N:957:PRO:HB3	3:N:1010:ASN:HD22	1.68	0.58
4:O:54:LEU:HD12	9:O:3002:HOH:O	2.02	0.58
5:P:93:LEU:HD22	5:P:98:GLU:HB3	1.85	0.58
1:A:178:ALA:HB2	2:C:864:GLY:H	1.66	0.58
2:C:1074:GLU:HA	9:C:2004:HOH:O	2.02	0.58
2:C:225:SER:O	2:C:229:MET:HG2	2.04	0.58
3:D:1152:GLU:HG2	3:D:1159:ARG:HH21	1.67	0.58
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.84	0.58
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.38	0.58
3:D:489:ARG:NE	3:D:493:ARG:HH22	1.95	0.58
2:M:258:TYR:HB3	9:M:2121:HOH:O	2.02	0.58
2:M:909:ALA:HB1	2:M:914:ILE:HD11	1.85	0.58
3:N:197:SER:CB	3:N:203:ALA:HB3	2.33	0.58
3:N:896:ALA:HB2	9:N:9628:HOH:O	2.03	0.58
5:P:371:LEU:HB2	9:P:5682:HOH:O	2.02	0.58
2:C:1103:ASP:CG	2:C:1104:GLU:H	2.06	0.58
2:C:412:ALA:HB1	2:C:419:THR:HG21	1.86	0.58
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.86	0.58
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.03	0.58
3:D:1131:SER:HB2	9:D:2660:HOH:O	2.02	0.58
3:D:1209:LEU:HD12	3:D:1210:SER:N	2.10	0.58
3:D:122:GLU:HB3	9:D:9684:HOH:O	2.03	0.58
3:D:1282:ARG:NH1	3:D:1282:ARG:HB3	2.17	0.58
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.85	0.58
3:D:1390:LEU:H	3:D:1390:LEU:HD23	1.68	0.58
3:D:702:LEU:HD13	3:D:716:PHE:CD1	2.38	0.58
1:K:26:GLU:HB3	1:K:194:LYS:HG3	1.85	0.58
1:K:229:GLN:HG2	9:K:3118:HOH:O	2.02	0.58
1:K:89:PHE:HB3	1:K:94:LEU:HD13	1.85	0.58
2:M:3:ILE:HA	2:M:900:ARG:O	2.04	0.58
2:M:537:LYS:HA	2:M:545:ASN:HD21	1.68	0.58
9:K:2958:HOH:O	2:M:830:LYS:HD2	2.03	0.58
2:M:954:THR:HG22	9:M:2147:HOH:O	2.03	0.58
3:N:432:TYR:HA	3:N:448:GLU:O	2.03	0.58
3:N:464:LEU:O	3:N:468:LEU:HG	2.03	0.58
3:N:820:GLU:HA	3:N:825:ALA:O	2.03	0.58
3:N:794:GLN:HG2	3:N:905:PRO:HB3	1.85	0.58
4:O:48:MET:HG2	4:O:49:GLN:H	1.67	0.58
5:P:209:PHE:HA	5:P:212:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:339:PRO:HB3	5:P:343:ASP:HB2	1.84	0.58
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.84	0.58
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.67	0.58
3:D:1389:LEU:HG	3:D:1390:LEU:H	1.69	0.58
3:D:1433:SER:HB2	3:D:1457:ASP:OD2	2.04	0.58
3:D:378:ILE:HA	9:D:2848:HOH:O	2.02	0.58
3:D:799:LYS:HG2	3:D:826:PRO:CG	2.34	0.58
2:C:1021:LEU:HD22	5:F:331:ASP:O	2.02	0.58
1:L:12:THR:OG1	1:L:24:VAL:HB	2.03	0.58
3:N:441:ARG:HB3	3:N:443:VAL:CG2	2.33	0.58
3:N:481:MET:O	3:N:489:ARG:HB2	2.03	0.58
3:N:65:ARG:CG	3:N:66:GLN:H	2.16	0.58
5:P:371:LEU:HB3	9:P:1119:HOH:O	2.02	0.58
1:A:89:PHE:HB3	1:A:94:LEU:HD13	1.85	0.58
2:C:1066:ALA:O	2:C:1070:ILE:HG13	2.03	0.58
2:C:402:SER:HA	2:C:566:THR:HG23	1.86	0.58
2:C:627:ARG:HD2	9:C:9630:HOH:O	2.02	0.58
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.86	0.58
2:C:756:VAL:HG21	2:C:823:VAL:HG11	1.85	0.58
3:D:32:ILE:HA	9:D:2671:HOH:O	2.04	0.58
3:D:481:MET:O	3:D:489:ARG:HB2	2.02	0.58
3:D:761:ILE:HD12	4:E:20:THR:HG23	1.84	0.58
1:K:191:ASP:HA	9:K:2079:HOH:O	2.03	0.58
2:M:24:GLU:HB3	9:M:9330:HOH:O	2.03	0.58
2:M:431:HIS:HB3	2:M:434:HIS:CD2	2.38	0.58
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.85	0.58
4:O:50:THR:HA	9:O:2107:HOH:O	2.03	0.58
1:A:113:ASP:HB3	9:A:9594:HOH:O	2.02	0.58
3:D:1264:GLU:HG3	9:D:9596:HOH:O	2.02	0.58
3:D:205:TYR:HE2	3:D:211:VAL:HG11	1.69	0.58
5:F:369:LEU:HA	9:F:2056:HOH:O	2.03	0.58
1:K:110:LYS:HB2	9:K:1330:HOH:O	2.04	0.58
1:K:217:ILE:HA	9:K:3364:HOH:O	2.02	0.58
2:M:1093:GLN:HE22	2:M:1098:ASP:HA	1.69	0.58
2:M:250:ARG:HE	2:M:253:ALA:HB3	1.66	0.58
2:M:148:PHE:CB	2:M:313:LEU:HD22	2.32	0.58
3:N:1049:SER:HA	9:N:9571:HOH:O	2.01	0.58
3:N:1116:ASN:CG	3:N:1193:THR:HB	2.23	0.58
3:N:774:SER:HB3	3:N:1362:LYS:O	2.03	0.58
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.86	0.58
3:N:580:ALA:HA	3:N:584:ASN:OD1	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:8:LYS:O	4:O:12:MET:HG3	2.04	0.58
3:N:539:ASP:HB2	5:P:318:GLU:OE2	2.03	0.58
2:C:129:ILE:HG22	2:C:130:ASN:N	2.18	0.58
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.85	0.58
4:E:63:TRP:O	4:E:67:GLU:HG3	2.04	0.58
2:M:897:LEU:HD11	2:M:920:GLN:HG3	1.86	0.58
3:N:1493:LYS:HB2	9:N:2722:HOH:O	2.03	0.58
3:N:710:ARG:HD2	9:N:9333:HOH:O	2.03	0.58
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.86	0.58
1:A:229:GLN:HB2	9:A:9707:HOH:O	2.02	0.58
2:C:250:ARG:HH21	2:C:254:VAL:H	1.52	0.58
2:C:526:PRO:HB2	9:C:2408:HOH:O	2.03	0.58
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.38	0.58
3:D:445:ARG:HG2	3:D:445:ARG:HH11	1.69	0.58
3:D:456:MET:HG2	3:D:568:ARG:HH11	1.69	0.58
4:E:40:LEU:HB2	4:E:45:ARG:NE	2.19	0.58
5:F:265:VAL:HB	9:F:9892:HOH:O	2.04	0.58
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.33	0.58
2:M:853:LEU:HB3	2:M:858:MET:HE3	1.85	0.58
3:N:149:LYS:HB2	9:N:9232:HOH:O	2.03	0.58
3:N:891:GLU:HB3	9:N:9355:HOH:O	2.04	0.58
3:N:92:HIS:HA	3:N:519:VAL:HG23	1.85	0.58
4:O:58:PRO:HB2	9:O:4249:HOH:O	2.04	0.58
5:P:156:VAL:HG21	9:P:2305:HOH:O	2.03	0.58
5:P:234:LYS:HG2	9:P:1255:HOH:O	2.02	0.58
1:A:18:ARG:HH22	1:A:88:ARG:HH21	1.51	0.58
2:C:807:ARG:HD3	2:C:808:ARG:O	2.03	0.58
2:C:943:VAL:HG13	2:C:985:GLY:H	1.68	0.58
3:D:28:LYS:HD2	3:D:41:ARG:HH11	1.68	0.58
4:E:44:GLU:O	4:E:45:ARG:HD3	2.04	0.58
4:E:60:ALA:O	4:E:63:TRP:HB2	2.04	0.58
5:F:208:SER:HA	9:F:9649:HOH:O	2.03	0.58
2:M:244:PRO:HD2	2:M:245:GLY:H	1.68	0.58
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.85	0.58
3:N:137:PRO:HD2	3:N:453:ASP:HB3	1.86	0.58
3:N:559:ALA:HA	9:N:9528:HOH:O	2.03	0.58
3:N:707:THR:HA	9:N:2395:HOH:O	2.04	0.58
3:N:692:GLU:OE1	3:N:720:LEU:HB2	2.04	0.58
3:D:1240:THR:HG22	9:D:2840:HOH:O	2.03	0.57
3:D:434:ARG:HB3	9:D:9861:HOH:O	2.02	0.57
9:D:2101:HOH:O	4:E:48:MET:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:132:LEU:HD11	1:L:138:LEU:HD13	1.85	0.57
2:M:371:LYS:O	2:M:372:LEU:HD12	2.04	0.57
2:M:481:ASP:HA	9:M:9383:HOH:O	2.04	0.57
2:M:564:MET:SD	2:M:846:LYS:HE2	2.44	0.57
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.86	0.57
2:M:791:ARG:HB3	9:M:9305:HOH:O	2.03	0.57
3:N:1404:ASN:HB3	9:N:9535:HOH:O	2.04	0.57
3:N:1487:VAL:HG12	3:N:1488:ASP:N	2.19	0.57
9:N:9746:HOH:O	5:P:141:VAL:HG21	2.03	0.57
2:C:1021:LEU:HG	2:C:1022:GLY:N	2.18	0.57
2:C:213:ALA:HB3	9:C:2338:HOH:O	2.04	0.57
3:D:996:TRP:CE2	3:D:1056:PRO:HG3	2.39	0.57
3:D:1321:ALA:O	3:D:1339:LYS:HD3	2.03	0.57
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.86	0.57
3:D:489:ARG:HG3	3:D:493:ARG:NH1	2.11	0.57
3:D:131:LYS:HE2	3:D:568:ARG:HG2	1.86	0.57
5:F:148:LYS:HA	9:F:9564:HOH:O	2.03	0.57
2:M:107:LEU:HD12	9:M:9281:HOH:O	2.03	0.57
2:M:142:ARG:HA	9:M:9253:HOH:O	2.04	0.57
3:N:1025:GLN:HB2	9:N:2440:HOH:O	2.04	0.57
3:N:430:ASP:HB2	3:N:432:TYR:CZ	2.39	0.57
3:N:1209:LEU:HD21	4:O:16:LYS:HD2	1.85	0.57
1:B:18:ARG:O	1:B:207:PRO:HD3	2.04	0.57
2:C:4:LYS:HD2	9:C:2407:HOH:O	2.05	0.57
3:D:28:LYS:HB2	9:D:9655:HOH:O	2.04	0.57
4:E:51:LEU:HD12	4:E:52:GLU:N	2.19	0.57
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.36	0.57
2:M:1093:GLN:HE22	2:M:1099:VAL:H	1.52	0.57
3:N:1412:LYS:O	3:N:1414:PRO:HD3	2.03	0.57
3:N:426:LYS:HB3	5:P:134:LYS:O	2.03	0.57
3:N:875:THR:HG22	3:N:879:ARG:HG3	1.86	0.57
3:N:539:ASP:HB2	5:P:318:GLU:CD	2.24	0.57
5:P:406:ARG:HG3	9:P:3208:HOH:O	2.03	0.57
2:C:332:ARG:HD2	2:C:464:LEU:HG	1.86	0.57
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.33	0.57
5:F:416:ARG:HD2	5:F:419:ARG:CB	2.34	0.57
5:F:82:ARG:O	5:F:86:HIS:HB2	2.03	0.57
1:K:92:PRO:HD3	9:K:1224:HOH:O	2.05	0.57
1:L:152:PRO:HD2	1:L:155:LYS:CD	2.33	0.57
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.87	0.57
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1195:GLN:HA	9:N:2116:HOH:O	2.04	0.57
3:N:1324:PRO:HA	9:N:9374:HOH:O	2.02	0.57
3:N:394:LEU:HA	9:N:9499:HOH:O	2.03	0.57
3:N:551:ASN:O	3:N:555:LYS:HG3	2.04	0.57
5:P:118:GLU:HB3	9:P:7908:HOH:O	2.04	0.57
2:C:1025:ALA:HA	9:C:9926:HOH:O	2.04	0.57
2:C:20:GLU:HG2	2:C:24:GLU:HG2	1.86	0.57
2:C:70:GLU:HA	9:C:9597:HOH:O	2.03	0.57
3:D:1239:ARG:HB2	9:D:3207:HOH:O	2.04	0.57
3:D:1490:LYS:HG3	9:D:9922:HOH:O	2.04	0.57
3:D:467:GLU:HB2	9:D:9601:HOH:O	2.05	0.57
3:D:813:LEU:O	3:D:817:GLU:HB2	2.03	0.57
4:E:41:GLU:H	4:E:42:PRO:HD2	1.70	0.57
5:F:269:ASN:O	5:F:273:ARG:HG3	2.04	0.57
2:M:144:PRO:HB2	9:M:9612:HOH:O	2.04	0.57
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.39	0.57
2:M:984:GLU:HG2	3:N:944:THR:O	2.04	0.57
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.85	0.57
3:N:1198:TYR:OH	3:N:1397:LYS:HE3	2.05	0.57
3:N:36:THR:HG22	3:N:38:LYS:HG3	1.87	0.57
3:N:65:ARG:HD3	3:N:66:GLN:H	1.70	0.57
5:P:290:GLU:HG3	9:P:1848:HOH:O	2.05	0.57
5:P:79:ASP:O	5:P:83:GLN:HG3	2.04	0.57
1:A:212:ASN:O	1:A:215:VAL:HG22	2.05	0.57
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.86	0.57
2:C:785:VAL:HG23	9:C:2281:HOH:O	2.04	0.57
4:E:36:LYS:HD3	9:E:9576:HOH:O	2.04	0.57
4:E:54:LEU:HG	4:E:58:PRO:HD2	1.86	0.57
5:F:205:ARG:HG3	5:F:251:ILE:HD13	1.86	0.57
5:F:300:ASP:HA	9:F:9948:HOH:O	2.03	0.57
1:K:112:ARG:HD2	9:K:3292:HOH:O	2.03	0.57
1:L:156:HIS:HD2	1:L:158:ILE:HG12	1.69	0.57
2:M:545:ASN:O	2:M:905:ILE:HD11	2.03	0.57
2:M:642:ARG:HB3	9:M:9448:HOH:O	2.04	0.57
2:M:964:LYS:O	2:M:968:LEU:HG	2.04	0.57
3:N:119:SER:CB	3:N:123:LEU:HB2	2.33	0.57
3:N:925:GLU:HG2	9:O:1095:HOH:O	2.03	0.57
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.87	0.57
1:A:10:VAL:HG21	9:A:9712:HOH:O	2.04	0.57
1:B:81:ASN:HB2	9:B:9809:HOH:O	2.03	0.57
2:C:677:MET:SD	2:C:987:ILE:HD13	2.44	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.40	0.57
3:D:1435:LEU:HB2	3:D:1457:ASP:OD2	2.04	0.57
3:D:194:GLY:H	3:D:206:ARG:HA	1.69	0.57
3:D:999:THR:O	3:D:1002:LYS:HB2	2.05	0.57
5:F:366:ALA:O	5:F:370:LYS:HB3	2.04	0.57
1:K:62:LEU:HD11	9:K:8889:HOH:O	2.04	0.57
2:M:165:LEU:HD21	2:M:334:ARG:NH2	2.20	0.57
2:M:524:VAL:HG22	2:M:525:SER:H	1.70	0.57
2:M:645:VAL:HG23	9:M:9422:HOH:O	2.05	0.57
3:N:1164:ARG:HA	9:N:9915:HOH:O	2.04	0.57
3:N:1250:ALA:HB3	9:N:9357:HOH:O	2.04	0.57
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.33	0.57
3:N:95:LEU:HD12	3:N:515:GLU:CA	2.34	0.57
5:P:416:ARG:HD2	5:P:419:ARG:CB	2.33	0.57
2:C:145:GLY:HA3	9:C:2144:HOH:O	2.04	0.57
2:C:163:ILE:HB	9:C:9761:HOH:O	2.05	0.57
2:C:203:ASP:O	2:C:207:LEU:HB2	2.03	0.57
2:C:417:GLY:O	2:C:418:LEU:HD13	2.05	0.57
2:C:495:THR:CG2	2:C:517:ARG:HE	2.15	0.57
2:C:538:GLN:HB2	9:C:2365:HOH:O	2.04	0.57
2:C:64:LEU:HD13	2:C:359:MET:SD	2.45	0.57
3:D:1119:SER:HB3	3:D:1185:GLU:HB3	1.85	0.57
3:D:1429:LEU:HG	9:D:2007:HOH:O	2.04	0.57
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.44	0.57
3:D:83:SER:HA	9:D:9574:HOH:O	2.05	0.57
3:D:966:GLU:HG2	3:D:970:LYS:HE2	1.87	0.57
4:E:15:SER:HB2	9:E:9581:HOH:O	2.05	0.57
5:F:288:TYR:HD2	5:F:304:VAL:HB	1.70	0.57
2:M:194:VAL:HG12	9:M:9819:HOH:O	2.04	0.57
2:M:244:PRO:HG2	2:M:246:ASP:OD2	2.04	0.57
2:M:758:ARG:HB3	2:M:789:SER:HA	1.85	0.57
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.86	0.57
3:N:1133:ARG:HD2	9:N:9227:HOH:O	2.04	0.57
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.04	0.57
3:N:1495:ILE:HD11	4:O:84:ARG:HE	1.69	0.57
3:N:179:VAL:HG21	9:N:2712:HOH:O	2.04	0.57
3:N:191:LEU:CB	3:N:195:VAL:HG21	2.30	0.57
3:N:431:VAL:HG13	9:N:9967:HOH:O	2.05	0.57
3:N:659:LYS:HG3	9:N:9809:HOH:O	2.02	0.57
3:N:701:LEU:HD21	3:N:763:MET:HE3	1.87	0.57
1:A:211:LEU:O	1:A:215:VAL:HG13	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:208:ALA:HA	2:C:218:VAL:CG2	2.35	0.57
2:C:13:ILE:HD13	2:C:483:VAL:HG21	1.87	0.57
2:C:9:ILE:HG13	2:C:907:ASP:OD2	2.05	0.57
3:D:1094:LEU:HB3	9:D:2067:HOH:O	2.05	0.57
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.86	0.57
3:D:396:VAL:HG22	3:D:447:VAL:HB	1.87	0.57
3:D:871:LYS:HG3	3:D:873:LEU:HG	1.87	0.57
3:D:32:ILE:O	5:F:258:ILE:HG23	2.03	0.57
1:K:202:ASP:HA	9:K:1200:HOH:O	2.05	0.57
1:K:62:LEU:H	1:K:62:LEU:HD12	1.70	0.57
2:M:152:PRO:HA	9:M:2090:HOH:O	2.04	0.57
2:M:66:LEU:HD11	2:M:98:LEU:HD22	1.87	0.57
3:N:25:GLU:HB3	9:N:9871:HOH:O	2.03	0.57
3:N:584:ASN:H	3:N:602:SER:CB	2.18	0.57
3:N:704:ARG:NH1	3:N:743:ASP:HB3	2.19	0.57
5:P:194:LEU:HD22	9:P:1975:HOH:O	2.05	0.57
5:P:250:ALA:HB2	9:P:3340:HOH:O	2.04	0.57
2:C:65:VAL:O	2:C:101:ILE:HG12	2.05	0.57
2:C:10:ARG:HG3	9:C:2815:HOH:O	2.04	0.57
2:C:278:GLU:HG2	2:C:283:ILE:O	2.05	0.57
2:C:807:ARG:HG2	9:C:9967:HOH:O	2.05	0.57
3:D:1189:ARG:HB3	3:D:1204:CYS:HA	1.87	0.57
3:D:192:ALA:O	3:D:195:VAL:HG23	2.04	0.57
3:D:117:ASP:HB2	3:D:495:ARG:NH2	2.19	0.57
3:D:799:LYS:HG2	3:D:826:PRO:HG2	1.86	0.57
5:F:153:PRO:HB3	9:F:2137:HOH:O	2.05	0.57
5:F:316:SER:OG	5:F:318:GLU:HG3	2.04	0.57
2:M:1000:MET:HE3	2:M:1002:GLU:HB3	1.87	0.57
2:M:226:VAL:HG12	9:M:2432:HOH:O	2.05	0.57
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.20	0.57
2:M:737:LEU:HD11	2:M:754:ILE:HB	1.85	0.57
3:N:1031:ASN:HB3	3:N:1034:GLN:NE2	2.20	0.57
3:N:1096:ARG:HH11	3:N:1096:ARG:HB2	1.69	0.57
4:O:41:GLU:HB3	9:O:4432:HOH:O	2.04	0.57
5:P:74:LYS:HB2	9:P:2234:HOH:O	2.04	0.57
2:C:250:ARG:HD3	9:C:9820:HOH:O	2.05	0.56
2:C:446:GLY:O	2:C:449:ILE:HG13	2.05	0.56
3:D:1364:HIS:NE2	3:D:1366:LYS:HE3	2.20	0.56
3:D:1390:LEU:HB2	9:D:2140:HOH:O	2.03	0.56
3:D:1503:VAL:HG11	9:D:2031:HOH:O	2.05	0.56
3:D:834:THR:HB	3:D:838:ARG:HE	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1085:PHE:O	2:M:1088:LEU:HB3	2.05	0.56
2:M:183:SER:CB	2:M:190:LYS:HD3	2.34	0.56
2:M:367:LEU:O	2:M:372:LEU:HD13	2.05	0.56
2:M:545:ASN:ND2	2:M:905:ILE:HG13	2.19	0.56
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.87	0.56
5:P:252:ALA:CB	5:P:265:VAL:HG21	2.30	0.56
5:P:347:GLN:HB3	9:P:5652:HOH:O	2.04	0.56
5:P:368:VAL:HA	9:P:5682:HOH:O	2.03	0.56
1:A:141:GLU:HG3	9:A:9798:HOH:O	2.05	0.56
2:C:1009:SER:HB2	3:D:651:GLU:O	2.05	0.56
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.86	0.56
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.85	0.56
1:L:83:LYS:HE2	1:L:167:VAL:HG12	1.86	0.56
2:M:490:GLU:HG2	2:M:494:TYR:CE1	2.40	0.56
3:N:423:ASP:OD2	5:P:174:LEU:HD22	2.05	0.56
4:O:32:ARG:HB2	4:O:32:ARG:HH11	1.70	0.56
4:O:44:GLU:O	4:O:45:ARG:HD3	2.04	0.56
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.40	0.56
1:B:153:ALA:HA	1:B:156:HIS:CE1	2.40	0.56
1:B:162:ILE:HD13	9:B:9631:HOH:O	2.05	0.56
2:C:183:SER:OG	2:C:190:LYS:HD3	2.05	0.56
2:C:349:ALA:O	2:C:353:ARG:HG3	2.05	0.56
2:C:866:PRO:HD2	9:C:9657:HOH:O	2.05	0.56
3:D:1127:GLU:HB3	9:D:9585:HOH:O	2.04	0.56
3:D:573:MET:SD	5:F:210:LEU:HB3	2.46	0.56
1:L:188:GLN:HA	9:L:1637:HOH:O	2.05	0.56
2:M:160:ALA:HB3	2:M:174:LEU:HB2	1.88	0.56
2:M:233:GLU:HG3	9:M:2295:HOH:O	2.04	0.56
2:M:588:VAL:HG21	2:M:664:GLY:O	2.04	0.56
3:N:1203:LYS:HD3	9:N:9886:HOH:O	2.04	0.56
3:N:1348:LEU:O	3:N:1352:ILE:HG13	2.05	0.56
2:M:1016:ILE:CD1	3:N:526:PRO:HG2	2.35	0.56
3:N:601:ARG:HH11	3:N:605:ASP:HB3	1.70	0.56
3:N:807:ALA:HB1	9:N:9607:HOH:O	2.06	0.56
5:P:287:THR:HG22	5:P:290:GLU:OE1	2.05	0.56
1:A:119:ASP:HB3	9:A:9566:HOH:O	2.05	0.56
2:C:420:ARG:HD2	9:C:2422:HOH:O	2.05	0.56
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.87	0.56
3:D:190:GLU:CD	3:D:190:GLU:H	2.09	0.56
9:C:9888:HOH:O	3:D:651:GLU:HB3	2.05	0.56
3:D:701:LEU:C	3:D:702:LEU:HD12	2.25	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:228:GLU:HA	9:F:9639:HOH:O	2.04	0.56
5:F:406:ARG:HG2	5:F:409:LYS:HD3	1.86	0.56
2:M:2:GLU:HA	9:M:9520:HOH:O	2.05	0.56
2:M:673:LEU:HB2	9:M:9318:HOH:O	2.04	0.56
2:M:734:LEU:O	2:M:737:LEU:HB2	2.06	0.56
3:N:955:VAL:O	3:N:1039:CYS:HB3	2.06	0.56
3:N:1197:ARG:HB2	3:N:1396:GLU:OE2	2.04	0.56
3:N:1369:GLU:HB3	9:N:9676:HOH:O	2.06	0.56
3:N:194:GLY:H	3:N:206:ARG:HA	1.70	0.56
3:N:379:ALA:HB2	9:N:2337:HOH:O	2.05	0.56
3:N:984:THR:HG22	3:N:987:GLU:H	1.69	0.56
5:P:262:VAL:HG23	9:P:3231:HOH:O	2.05	0.56
1:A:49:PRO:HA	1:A:148:VAL:HG22	1.86	0.56
2:C:1108:PRO:HG3	9:C:9868:HOH:O	2.05	0.56
2:C:185:LYS:HD3	2:C:190:LYS:HE2	1.86	0.56
2:C:374:ASN:O	2:C:377:PRO:HD2	2.06	0.56
2:C:804:VAL:HG11	9:C:2137:HOH:O	2.05	0.56
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.87	0.56
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	1.86	0.56
3:D:1332:PRO:HB2	9:D:9823:HOH:O	2.04	0.56
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.11	0.56
3:D:820:GLU:HA	3:D:825:ALA:O	2.04	0.56
4:E:46:PRO:HD2	9:E:9659:HOH:O	2.04	0.56
1:K:151:VAL:HB	1:K:169:ALA:HB3	1.86	0.56
2:M:723:THR:C	2:M:725:ASP:H	2.09	0.56
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.86	0.56
3:N:631:ILE:HG12	3:N:743:ASP:O	2.05	0.56
1:A:123:MET:C	1:A:125:PRO:HD3	2.25	0.56
2:C:859:PRO:O	2:C:867:VAL:HG22	2.05	0.56
2:C:861:LEU:HD23	2:C:862:PRO:N	2.21	0.56
3:D:141:ILE:H	3:D:141:ILE:HD12	1.69	0.56
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.05	0.56
3:D:168:THR:CB	3:D:393:ILE:HD12	2.36	0.56
5:F:413:SER:HA	5:F:416:ARG:CZ	2.36	0.56
5:F:80:PRO:HG2	9:F:9637:HOH:O	2.04	0.56
3:N:999:THR:O	3:N:1002:LYS:HB2	2.06	0.56
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.05	0.56
3:N:12:LEU:HD23	3:N:13:ALA:H	1.70	0.56
3:N:148:GLU:HA	9:N:9837:HOH:O	2.04	0.56
3:N:169:TYR:N	3:N:170:PRO:HD3	2.20	0.56
3:N:172:PRO:HA	3:N:178:LEU:HD13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:221:ALA:HA	9:N:9249:HOH:O	2.04	0.56
3:N:169:TYR:HA	3:N:392:SER:HA	1.87	0.56
3:N:681:ARG:HB2	3:N:681:ARG:NH1	2.20	0.56
3:N:834:THR:HA	3:N:838:ARG:HH21	1.70	0.56
5:P:160:ASP:O	5:P:163:LEU:HB2	2.05	0.56
1:A:188:GLN:HG3	1:A:189:ARG:H	1.71	0.56
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.87	0.56
3:D:1087:ARG:NH1	3:D:1234:THR:HA	2.21	0.56
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.87	0.56
3:D:447:VAL:HG22	9:D:9908:HOH:O	2.05	0.56
3:D:64:LYS:HD3	9:F:9603:HOH:O	2.04	0.56
3:D:893:GLU:HB2	9:D:2572:HOH:O	2.06	0.56
5:F:92:PRO:HB3	9:F:9758:HOH:O	2.05	0.56
1:K:70:GLY:HA2	1:K:133:GLU:HG2	1.87	0.56
1:L:18:ARG:O	1:L:207:PRO:HD3	2.06	0.56
2:M:292:ARG:HB2	2:M:299:LYS:HZ2	1.71	0.56
2:M:696:LYS:HA	9:M:9221:HOH:O	2.06	0.56
2:M:710:ILE:HB	2:M:790:LEU:HD22	1.86	0.56
3:N:430:ASP:HB2	3:N:432:TYR:CE2	2.41	0.56
2:C:101:ILE:HG22	2:C:102:HIS:H	1.71	0.56
2:C:367:LEU:O	2:C:372:LEU:HD13	2.06	0.56
3:D:1018:ASN:O	3:D:1022:VAL:HG23	2.06	0.56
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.36	0.56
3:D:1381:VAL:HB	3:D:1389:LEU:O	2.05	0.56
3:D:828:LYS:N	3:D:828:LYS:HD3	2.20	0.56
4:E:44:GLU:HA	9:E:9565:HOH:O	2.04	0.56
5:F:102:LEU:O	5:F:106:VAL:HG23	2.06	0.56
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.87	0.56
1:K:63:HIS:HA	9:K:1147:HOH:O	2.06	0.56
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.88	0.56
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.05	0.56
2:M:654:LEU:HD21	2:M:663:ASN:ND2	2.21	0.56
2:M:760:SER:O	2:M:785:VAL:HG22	2.05	0.56
2:M:889:HIS:NE2	2:M:970:GLY:HA3	2.21	0.56
3:N:1433:SER:HB2	3:N:1457:ASP:OD2	2.06	0.56
3:N:86:ARG:O	3:N:522:PRO:HD2	2.06	0.56
3:N:877:PRO:O	3:N:880:ILE:HG22	2.05	0.56
5:P:120:THR:HB	5:P:122:LEU:HB2	1.88	0.56
5:P:135:ILE:HD11	5:P:178:ARG:HB3	1.88	0.56
5:P:267:THR:HG23	5:P:299:TRP:HH2	1.70	0.56
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:224:TYR:CD1	1:B:9:PRO:HD2	2.41	0.56
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.41	0.56
2:C:208:ALA:HA	2:C:218:VAL:HG21	1.87	0.56
3:D:1137:ARG:H	3:D:1137:ARG:CD	2.18	0.56
3:D:118:LEU:O	3:D:120:ALA:N	2.39	0.56
3:D:123:LEU:HA	9:D:2113:HOH:O	2.06	0.56
3:D:131:LYS:HB3	3:D:568:ARG:HG2	1.87	0.56
3:D:1379:VAL:HG22	9:D:2424:HOH:O	2.05	0.56
1:K:73:GLU:HG3	1:K:130:ALA:HA	1.88	0.56
2:M:117:HIS:HB2	9:M:9333:HOH:O	2.05	0.56
2:M:237:ARG:HG2	9:M:9833:HOH:O	2.05	0.56
2:M:56:GLU:HB3	9:M:9316:HOH:O	2.06	0.56
2:M:674:VAL:HG12	2:M:990:GLY:O	2.06	0.56
3:N:1045:MET:CG	3:N:1073:SER:HA	2.33	0.56
3:N:553:ARG:HA	3:N:556:LYS:HD3	1.86	0.56
4:O:7:ASP:HB2	9:O:4398:HOH:O	2.05	0.56
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.40	0.56
2:C:63:GLY:HA3	2:C:103:LYS:HG2	1.88	0.56
2:C:244:PRO:CD	2:C:245:GLY:H	2.16	0.56
2:C:44:ILE:HA	9:C:9646:HOH:O	2.05	0.56
2:C:47:ALA:HA	9:C:9778:HOH:O	2.05	0.56
3:D:1277:ILE:HG22	3:D:1278:ASP:N	2.21	0.56
3:D:36:THR:C	3:D:38:LYS:H	2.09	0.56
4:E:48:MET:HG2	4:E:49:GLN:H	1.70	0.56
2:M:14:PRO:HA	9:M:9656:HOH:O	2.06	0.56
2:M:261:ILE:HG22	2:M:262:ALA:H	1.71	0.56
2:M:573:ARG:HB3	2:M:670:GLN:NE2	2.20	0.56
3:N:1294:VAL:HB	9:N:9684:HOH:O	2.04	0.56
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.87	0.56
5:P:141:VAL:HB	9:P:2295:HOH:O	2.06	0.56
5:P:151:LEU:HB3	9:P:4293:HOH:O	2.05	0.56
5:P:205:ARG:HG3	5:P:251:ILE:HD13	1.87	0.56
1:A:206:THR:CG2	1:A:209:GLU:HG3	2.36	0.56
2:C:247:PRO:HD2	9:C:9820:HOH:O	2.06	0.56
2:C:734:LEU:O	2:C:737:LEU:HB2	2.06	0.56
2:C:742:VAL:HG21	9:C:9683:HOH:O	2.06	0.56
2:C:99:GLN:HB3	2:C:109:LYS:HG3	1.87	0.56
3:D:1150:ALA:HA	9:D:9851:HOH:O	2.06	0.56
3:D:1314:LYS:HD3	3:D:1314:LYS:N	2.21	0.56
3:D:1412:LYS:O	3:D:1414:PRO:HD3	2.06	0.56
3:D:432:TYR:HB3	3:D:448:GLU:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:496:LEU:HD11	3:D:500:ARG:HE	1.70	0.56
3:D:728:LEU:HD22	3:D:745:MET:SD	2.45	0.56
5:F:287:THR:HG22	5:F:290:GLU:OE1	2.06	0.56
1:K:41:ARG:HG3	1:K:177:VAL:HB	1.88	0.56
1:K:192:LEU:HD21	9:K:1294:HOH:O	2.06	0.56
1:K:88:ARG:NH1	1:K:90:LEU:HD23	2.21	0.56
2:M:770:GLU:HB3	5:P:350:LEU:HD21	1.88	0.56
2:M:881:ASN:ND2	2:M:881:ASN:H	2.03	0.56
3:N:709:HIS:CD2	3:N:1231:GLU:HG3	2.41	0.56
3:N:1462:LEU:HD21	3:N:1474:ALA:HB2	1.88	0.56
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.87	0.56
5:P:124:PRO:HB3	9:P:1676:HOH:O	2.06	0.56
2:C:831:ARG:HA	9:C:9680:HOH:O	2.06	0.55
3:D:12:LEU:HD21	3:D:104:PHE:HE1	1.71	0.55
3:D:1065:LEU:HD12	3:D:1069:GLU:HB3	1.88	0.55
3:D:207:PHE:HA	9:D:3106:HOH:O	2.05	0.55
1:L:123:MET:C	1:L:125:PRO:HD3	2.26	0.55
2:M:398:THR:HA	2:M:633:GLN:HG3	1.88	0.55
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.32	0.55
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.87	0.55
3:N:22:SER:HA	3:N:90:MET:O	2.06	0.55
4:O:32:ARG:HB2	4:O:32:ARG:NH1	2.20	0.55
4:O:47:LYS:N	4:O:54:LEU:HD22	2.22	0.55
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.87	0.55
3:N:390:PRO:HG2	5:P:98:GLU:OE1	2.06	0.55
1:A:115:LEU:HB3	9:A:9587:HOH:O	2.06	0.55
2:C:536:PRO:HD2	2:C:537:LYS:HZ3	1.71	0.55
2:C:890:LEU:HD13	2:C:914:ILE:HG13	1.88	0.55
3:D:400:VAL:HA	3:D:442:ASN:O	2.06	0.55
2:M:369:PRO:HB3	9:M:2382:HOH:O	2.07	0.55
2:M:492:ASP:HB3	2:M:518:LYS:HD2	1.87	0.55
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.88	0.55
3:N:1029:ARG:CZ	8:N:9101:G4P:O2D	2.54	0.55
3:N:456:MET:SD	3:N:568:ARG:HD3	2.46	0.55
5:P:197:SER:HB2	9:P:5517:HOH:O	2.06	0.55
1:B:170:VAL:HG22	9:B:9562:HOH:O	2.05	0.55
2:C:614:ARG:HD2	9:C:2802:HOH:O	2.07	0.55
3:D:1473:PRO:HB2	9:D:3112:HOH:O	2.05	0.55
4:E:45:ARG:HB3	4:E:46:PRO:HD2	1.89	0.55
5:F:361:LEU:HD21	5:F:408:LEU:HD12	1.88	0.55
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:177:VAL:HG13	1:L:197:LEU:HD21	1.88	0.55
2:M:191:PHE:HA	9:M:9556:HOH:O	2.06	0.55
2:M:482:GLU:HB3	9:M:9208:HOH:O	2.06	0.55
2:M:670:GLN:HE22	2:M:699:PHE:HA	1.71	0.55
2:M:768:THR:HG22	2:M:771:GLU:H	1.72	0.55
2:M:553:ASP:HA	2:M:881:ASN:HA	1.88	0.55
3:N:1008:PHE:O	3:N:1012:GLU:HG3	2.06	0.55
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.36	0.55
3:N:1390:LEU:HD22	9:N:9553:HOH:O	2.06	0.55
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.41	0.55
3:N:166:GLN:HB3	3:N:395:VAL:HG21	1.87	0.55
3:N:477:LEU:HD23	9:N:2072:HOH:O	2.06	0.55
3:N:703:ASN:HD22	3:N:713:ILE:HG12	1.71	0.55
3:N:964:LEU:HG	9:N:9387:HOH:O	2.06	0.55
9:N:2002:HOH:O	5:P:315:VAL:HG11	2.06	0.55
1:A:223:THR:HG22	9:A:9752:HOH:O	2.05	0.55
2:C:139:GLN:NE2	2:C:415:PRO:HD2	2.17	0.55
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.87	0.55
2:C:503:LEU:HD12	2:C:507:ARG:O	2.06	0.55
3:D:644:LEU:HG	3:D:718:PRO:HB3	1.89	0.55
2:C:949:LYS:HD2	3:D:796:ARG:NH2	2.21	0.55
1:B:175:ARG:O	3:D:851:LEU:HD21	2.07	0.55
3:D:908:LYS:HB3	3:D:1027:GLY:CA	2.27	0.55
5:F:115:LYS:HE3	9:F:9566:HOH:O	2.07	0.55
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.07	0.55
2:M:250:ARG:HE	2:M:253:ALA:CB	2.19	0.55
9:K:1228:HOH:O	2:M:856:GLU:HB3	2.06	0.55
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.41	0.55
3:N:1137:ARG:HA	9:N:9839:HOH:O	2.06	0.55
3:N:1119:SER:HB2	3:N:1185:GLU:HB3	1.87	0.55
3:N:625:TYR:O	3:N:749:VAL:HG23	2.07	0.55
5:P:161:GLN:HG2	9:P:1559:HOH:O	2.06	0.55
5:P:81:VAL:HG23	9:P:1606:HOH:O	2.04	0.55
1:B:48:ILE:HG22	1:B:173:PRO:HD2	1.87	0.55
2:C:57:GLU:O	2:C:62:GLY:HA3	2.06	0.55
3:D:141:ILE:HG23	9:D:9965:HOH:O	2.06	0.55
3:D:165:LYS:HD3	3:D:165:LYS:O	2.06	0.55
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.37	0.55
4:E:90:GLU:HB2	9:E:9648:HOH:O	2.05	0.55
5:F:166:LEU:O	5:F:171:LYS:HB2	2.06	0.55
5:F:280:GLN:HG2	5:F:281:GLU:HG3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:320:PRO:O	5:F:321:ILE:HD13	2.07	0.55
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.89	0.55
2:M:3:ILE:HG22	9:M:9511:HOH:O	2.05	0.55
2:M:841:ASN:H	2:M:841:ASN:HD22	1.55	0.55
3:N:1449:GLU:O	3:N:1452:ILE:HG22	2.07	0.55
3:N:1497:GLU:O	3:N:1501:GLU:HG3	2.07	0.55
3:N:36:THR:C	3:N:38:LYS:H	2.09	0.55
3:N:613:ARG:HD2	9:N:2236:HOH:O	2.06	0.55
5:P:85:LEU:HD13	9:P:5383:HOH:O	2.05	0.55
2:C:328:LEU:HD21	2:C:434:HIS:HD2	1.71	0.55
2:C:333:ILE:HD13	2:C:467:ILE:HD11	1.87	0.55
3:D:1341:PRO:O	3:D:1344:VAL:HG23	2.07	0.55
3:D:539:ASP:HA	9:D:2979:HOH:O	2.06	0.55
3:D:570:GLU:HB2	5:F:214:GLN:NE2	2.21	0.55
5:F:143:HIS:HB3	9:F:9613:HOH:O	2.05	0.55
1:K:86:VAL:HG13	1:K:123:MET:HB2	1.89	0.55
1:K:49:PRO:HA	1:K:148:VAL:HG12	1.89	0.55
2:M:524:VAL:CG2	2:M:528:GLU:HB2	2.36	0.55
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	2.21	0.55
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.88	0.55
1:B:99:LEU:HA	9:B:9656:HOH:O	2.06	0.55
2:C:227:PHE:HB3	9:C:2116:HOH:O	2.07	0.55
2:C:254:VAL:HG22	2:C:258:TYR:CE1	2.42	0.55
2:C:290:LEU:HB3	9:C:9841:HOH:O	2.05	0.55
2:C:577:PRO:HG3	2:C:993:PHE:CZ	2.42	0.55
3:D:1118:ILE:HD11	3:D:1192:LEU:HB2	1.89	0.55
3:D:126:VAL:HG11	9:D:2381:HOH:O	2.05	0.55
3:D:1389:LEU:H	3:D:1389:LEU:HD23	1.72	0.55
3:D:138:LYS:HG3	9:D:2920:HOH:O	2.05	0.55
3:D:39:PRO:HB3	3:D:45:PHE:C	2.26	0.55
3:D:485:SER:HB2	9:D:3145:HOH:O	2.05	0.55
3:D:710:ARG:HG3	3:D:711:LEU:HD22	1.89	0.55
3:D:92:HIS:HA	3:D:519:VAL:HG23	1.87	0.55
3:D:93:ILE:HG22	9:D:2002:HOH:O	2.07	0.55
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.31	0.55
1:L:214:ALA:HA	1:L:217:ILE:HD12	1.88	0.55
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.72	0.55
2:M:218:VAL:HG13	9:M:9323:HOH:O	2.07	0.55
2:M:226:VAL:HG21	9:M:2143:HOH:O	2.05	0.55
2:M:275:TYR:O	2:M:279:GLU:HG2	2.05	0.55
2:M:417:GLY:O	2:M:418:LEU:HD13	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.89	0.55
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.87	0.55
3:N:758:GLU:HB3	4:O:20:THR:HG21	1.88	0.55
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.42	0.55
4:O:42:PRO:HD2	9:O:4230:HOH:O	2.05	0.55
4:O:31:LEU:HD21	4:O:60:ALA:CB	2.36	0.55
5:P:363:GLU:HG2	5:P:364:ARG:N	2.22	0.55
2:M:777:ILE:HG13	5:P:405:LEU:HD11	1.88	0.55
1:B:7:LYS:O	1:B:7:LYS:HD2	2.07	0.55
2:C:367:LEU:HA	2:C:371:LYS:HB2	1.89	0.55
2:C:444:PRO:HA	9:C:9645:HOH:O	2.06	0.55
2:C:492:ASP:HB2	9:C:2376:HOH:O	2.06	0.55
3:D:645:PRO:HA	3:D:721:VAL:O	2.07	0.55
1:K:158:ILE:HB	9:K:2046:HOH:O	2.05	0.55
2:M:57:GLU:O	2:M:62:GLY:HA3	2.06	0.55
3:N:1243:THR:HB	3:N:1253:THR:HB	1.88	0.55
3:N:141:ILE:HG21	9:N:9453:HOH:O	2.06	0.55
3:N:149:LYS:HD3	3:N:149:LYS:H	1.71	0.55
3:N:36:THR:HG22	9:N:9685:HOH:O	2.06	0.55
3:N:787:LEU:HD21	3:N:947:ILE:HD13	1.88	0.55
1:A:104:GLU:HB2	9:A:9584:HOH:O	2.06	0.55
2:C:1038:TRP:NE1	3:D:1099:VAL:HG11	2.21	0.55
3:D:1101:VAL:HG11	3:D:1427:SER:HB3	1.88	0.55
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	2.06	0.55
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.07	0.55
3:D:1468:LEU:HD21	9:D:2087:HOH:O	2.07	0.55
3:D:543:LEU:HA	3:D:546:ARG:HG2	1.89	0.55
5:F:136:LEU:HD11	5:F:141:VAL:HG21	1.89	0.55
5:F:153:PRO:HG2	5:F:154:LYS:H	1.71	0.55
1:K:27:PRO:HB2	9:K:1056:HOH:O	2.06	0.55
1:K:42:ARG:HD2	9:K:4396:HOH:O	2.07	0.55
1:L:48:ILE:HG22	1:L:173:PRO:HD2	1.88	0.55
2:M:323:ASP:HA	9:M:9235:HOH:O	2.06	0.55
2:M:720:GLU:HG2	9:M:9228:HOH:O	2.07	0.55
3:N:107:ASP:OD2	3:N:109:PRO:HD2	2.07	0.55
3:N:1496:GLU:HB2	9:N:9255:HOH:O	2.05	0.55
5:P:170:HIS:HA	5:P:173:TYR:CD1	2.41	0.55
5:P:196:VAL:O	5:P:200:LYS:HB2	2.07	0.55
1:B:23:PHE:CZ	1:B:208:LEU:HD22	2.42	0.55
2:C:405:ARG:HD3	2:C:543:ASN:ND2	2.22	0.55
2:C:589:ARG:HD3	2:C:596:TYR:CE2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:755:LEU:CD1	2:C:825:VAL:HG11	2.34	0.55
1:A:178:ALA:CB	2:C:864:GLY:H	2.20	0.55
3:D:1442:ASN:HB3	9:D:3067:HOH:O	2.06	0.55
3:D:53:ILE:HG22	9:D:2190:HOH:O	2.07	0.55
3:D:554:LEU:HG	9:D:9809:HOH:O	2.06	0.55
3:D:812:ALA:HA	9:D:9733:HOH:O	2.06	0.55
4:E:84:ARG:HD2	4:E:87:LYS:HD3	1.89	0.55
5:F:131:VAL:HG13	5:F:178:ARG:HD3	1.87	0.55
1:K:146:ARG:HG3	9:K:1164:HOH:O	2.06	0.55
1:K:60:ASP:HB3	9:K:4731:HOH:O	2.06	0.55
1:L:41:ARG:NH1	1:L:177:VAL:HB	2.21	0.55
2:M:1105:LYS:HG2	9:M:9543:HOH:O	2.07	0.55
2:M:534:VAL:H	2:M:538:GLN:HE22	1.55	0.55
2:M:614:ARG:HD3	9:M:9224:HOH:O	2.05	0.55
2:M:944:LEU:O	2:M:947:ALA:HB3	2.07	0.55
3:D:133:ILE:HG12	9:D:9996:HOH:O	2.06	0.54
3:D:729:HIS:CE1	3:D:731:LEU:HG	2.42	0.54
3:D:1487:VAL:HG23	4:E:74:VAL:O	2.07	0.54
1:K:76:VAL:HA	1:K:79:ILE:HG12	1.89	0.54
1:K:9:PRO:HD2	1:L:224:TYR:CD1	2.41	0.54
2:M:567:GLN:HE22	2:M:838:LYS:NZ	2.05	0.54
3:N:1124:GLN:CD	3:N:1135:ARG:HA	2.28	0.54
3:N:1119:SER:HA	3:N:1186:VAL:O	2.07	0.54
3:N:177:ALA:CA	3:N:199:LEU:HD13	2.38	0.54
3:N:596:SER:HA	9:N:2771:HOH:O	2.08	0.54
5:P:125:ASP:O	5:P:129:GLU:HG2	2.07	0.54
1:B:135:GLY:HA3	9:B:9591:HOH:O	2.08	0.54
2:C:111:ASP:HA	9:C:2107:HOH:O	2.06	0.54
3:D:1468:LEU:HD23	3:D:1468:LEU:O	2.07	0.54
3:D:470:LEU:HB2	3:D:503:LEU:HD21	1.89	0.54
3:D:487:ALA:HB1	3:D:488:ARG:HH21	1.71	0.54
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.37	0.54
3:D:1481:VAL:CG1	4:E:18:ARG:HA	2.34	0.54
4:E:57:ASP:H	4:E:58:PRO:HD3	1.73	0.54
5:F:302:LYS:HA	9:F:9730:HOH:O	2.06	0.54
5:F:371:LEU:HD11	9:F:9735:HOH:O	2.07	0.54
5:F:93:LEU:HG	5:F:190:ALA:CB	2.37	0.54
2:M:108:ILE:HG12	9:M:2211:HOH:O	2.06	0.54
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.88	0.54
3:N:648:MET:HG2	3:N:652:LEU:HD23	1.88	0.54
5:P:323:ASP:HB3	9:P:4379:HOH:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1013:TYR:HB3	9:C:2050:HOH:O	2.06	0.54
2:C:1081:VAL:HB	2:C:1086:ARG:NE	2.22	0.54
2:C:897:LEU:HD11	2:C:920:GLN:HG3	1.89	0.54
3:D:1014:ASN:O	3:D:1016:PRO:HD3	2.07	0.54
3:D:146:PRO:HG2	9:D:9704:HOH:O	2.07	0.54
3:D:19:ARG:HA	9:D:2218:HOH:O	2.07	0.54
3:D:197:SER:CB	3:D:203:ALA:HB3	2.30	0.54
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.37	0.54
4:E:56:ASP:HB2	9:E:9649:HOH:O	2.07	0.54
5:F:181:GLU:O	5:F:184:ARG:HB3	2.08	0.54
5:F:262:VAL:HG23	9:F:9614:HOH:O	2.07	0.54
2:M:1051:GLU:C	2:M:1056:LYS:HD2	2.28	0.54
2:M:1057:SER:OG	3:N:621:LYS:HE2	2.07	0.54
2:M:719:PRO:HD3	9:M:2003:HOH:O	2.07	0.54
3:N:704:ARG:HD2	3:N:705:ALA:H	1.71	0.54
5:P:166:LEU:O	5:P:171:LYS:HB2	2.07	0.54
1:A:48:ILE:HG22	1:A:173:PRO:HD2	1.88	0.54
1:A:7:LYS:NZ	1:A:186:LEU:HD23	2.22	0.54
1:A:62:LEU:HD12	1:A:62:LEU:H	1.71	0.54
1:B:137:ARG:NH1	1:B:139:ASN:HB3	2.21	0.54
2:C:165:LEU:HD13	9:C:2088:HOH:O	2.06	0.54
3:D:1169:ASP:HB2	9:D:2059:HOH:O	2.07	0.54
3:D:1449:GLU:HB2	9:D:9628:HOH:O	2.07	0.54
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.90	0.54
3:D:41:ARG:HG3	9:D:9655:HOH:O	2.05	0.54
3:D:816:HIS:HA	9:D:3219:HOH:O	2.07	0.54
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.88	0.54
2:M:159:ILE:HB	9:M:9671:HOH:O	2.06	0.54
2:M:532:MET:HE1	9:M:9849:HOH:O	2.06	0.54
1:A:186:LEU:HB2	9:A:9592:HOH:O	2.07	0.54
2:C:1015:LEU:HB3	2:C:1016:ILE:HD13	1.88	0.54
2:C:328:LEU:CD1	2:C:433:THR:HB	2.26	0.54
2:C:455:LEU:HD13	2:C:456:ALA:O	2.07	0.54
2:C:42:VAL:HA	2:C:46:ALA:HB2	1.89	0.54
2:C:640:ARG:HD3	2:C:642:ARG:NH2	2.22	0.54
2:C:598:GLU:O	2:C:651:LYS:HG3	2.07	0.54
2:C:666:LEU:HD12	2:C:667:ALA:H	1.73	0.54
1:K:18:ARG:NH2	1:K:88:ARG:HH21	2.05	0.54
9:K:6214:HOH:O	1:L:229:GLN:HB3	2.06	0.54
2:M:1089:VAL:O	2:M:1093:GLN:HG2	2.07	0.54
2:M:159:ILE:HG21	2:M:175:GLU:OE1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:286:SER:HB3	2:M:299:LYS:HE2	1.89	0.54
2:M:649:VAL:HA	2:M:650:ARG:NH2	2.22	0.54
2:M:72:ARG:HB3	9:M:9754:HOH:O	2.07	0.54
3:N:101:HIS:O	3:N:105:VAL:HG23	2.07	0.54
3:N:400:VAL:HG23	9:N:2141:HOH:O	2.07	0.54
3:N:634:GLY:O	3:N:637:LEU:HB3	2.07	0.54
3:N:638:LYS:HE2	9:N:2726:HOH:O	2.08	0.54
3:N:693:GLU:HA	9:N:9838:HOH:O	2.05	0.54
3:N:814:ALA:HB2	9:N:9382:HOH:O	2.08	0.54
3:N:838:ARG:HD2	3:N:874:GLU:OE2	2.08	0.54
5:P:367:MET:HB3	5:P:370:LYS:HZ2	1.72	0.54
1:A:41:ARG:HG3	1:A:177:VAL:HB	1.88	0.54
2:C:53:PRO:HA	9:C:9804:HOH:O	2.07	0.54
3:D:1033:GLN:HB3	3:D:1036:ARG:HH21	1.73	0.54
3:D:1209:LEU:CD2	3:D:1216:SER:H	2.21	0.54
3:D:608:SER:O	3:D:614:PHE:HB2	2.08	0.54
5:F:314:PRO:HD3	9:F:9825:HOH:O	2.07	0.54
5:F:364:ARG:HH11	5:F:364:ARG:HB3	1.72	0.54
1:K:189:ARG:HD2	9:K:1183:HOH:O	2.08	0.54
1:L:9:PRO:HD3	9:L:3141:HOH:O	2.07	0.54
3:N:100:ALA:H	3:N:575:GLN:HE22	1.54	0.54
1:B:94:LEU:HD21	1:B:119:ASP:OD1	2.08	0.54
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.90	0.54
3:D:1397:LYS:HG3	9:D:2561:HOH:O	2.08	0.54
3:D:669:ASN:HD21	3:D:671:LYS:HB2	1.72	0.54
4:E:47:LYS:N	4:E:54:LEU:HD22	2.23	0.54
5:F:153:PRO:HB2	9:F:9865:HOH:O	2.07	0.54
1:L:143:ARG:HE	1:L:158:ILE:HG21	1.72	0.54
2:M:2:GLU:HB3	9:M:2027:HOH:O	2.07	0.54
2:M:34:VAL:HG22	9:M:9591:HOH:O	2.07	0.54
2:M:495:THR:HA	9:M:9319:HOH:O	2.08	0.54
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.90	0.54
3:N:138:LYS:H	3:N:138:LYS:HD2	1.73	0.54
3:N:1408:ILE:HB	9:N:9535:HOH:O	2.07	0.54
3:N:246:PRO:HA	9:N:2931:HOH:O	2.06	0.54
3:N:690:ALA:O	3:N:694:VAL:HG23	2.08	0.54
1:L:80:LEU:CD1	3:N:842:VAL:HG12	2.35	0.54
4:O:60:ALA:O	4:O:63:TRP:HB2	2.08	0.54
1:A:88:ARG:HB2	1:A:204:SER:HA	1.90	0.54
1:B:107:LYS:HB3	9:B:9616:HOH:O	2.08	0.54
1:B:41:ARG:NH1	1:B:177:VAL:HB	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1054:THR:HG23	2:C:1059:ASP:HB2	1.90	0.54
2:C:105:THR:HG23	9:C:9938:HOH:O	2.07	0.54
3:D:441:ARG:HB3	3:D:443:VAL:CG2	2.37	0.54
3:D:637:LEU:HD11	3:D:642:CYS:N	2.22	0.54
3:D:761:ILE:HD11	4:E:23:VAL:HG11	1.89	0.54
4:E:69:LEU:HD11	9:E:9579:HOH:O	2.07	0.54
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.89	0.54
2:M:208:ALA:HB2	9:M:9323:HOH:O	2.08	0.54
2:M:266:ARG:HB3	9:M:9251:HOH:O	2.06	0.54
2:M:279:GLU:HG3	2:M:280:LYS:HG3	1.89	0.54
2:M:383:ARG:HG3	9:M:9744:HOH:O	2.07	0.54
2:M:469:THR:N	9:M:9590:HOH:O	2.40	0.54
3:N:149:LYS:N	3:N:149:LYS:HD3	2.23	0.54
4:O:14:ASP:HA	9:O:5443:HOH:O	2.08	0.54
9:M:9528:HOH:O	5:P:280:GLN:HA	2.07	0.54
1:B:86:VAL:HG13	1:B:123:MET:HB2	1.89	0.54
1:B:74:ASP:HA	9:B:9649:HOH:O	2.07	0.54
2:C:1014:SER:HB2	5:F:331:ASP:HA	1.90	0.54
2:C:405:ARG:HH12	2:C:409:ARG:NH2	2.00	0.54
2:C:45:GLN:HG2	9:C:9991:HOH:O	2.07	0.54
2:C:798:GLY:H	2:C:827:VAL:CG1	2.20	0.54
3:D:1119:SER:HA	3:D:1186:VAL:O	2.08	0.54
3:D:1258:ARG:HG2	3:D:1262:LEU:HD13	1.89	0.54
3:D:1312:LEU:HA	9:D:3003:HOH:O	2.08	0.54
3:D:404:GLU:HB3	3:D:414:ARG:NE	2.23	0.54
3:D:474:GLU:HG3	3:D:500:ARG:HE	1.72	0.54
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.32	0.54
5:F:89:GLY:HA3	9:F:9884:HOH:O	2.08	0.54
1:L:2:LEU:HD13	1:L:3:ASP:OD1	2.08	0.54
2:M:1093:GLN:NE2	2:M:1099:VAL:H	2.06	0.54
2:M:346:VAL:O	2:M:350:ARG:HG3	2.08	0.54
2:M:425:PHE:HB3	9:N:9251:HOH:O	2.07	0.54
3:N:537:THR:O	5:P:317:LEU:HB2	2.08	0.54
1:A:119:ASP:HA	9:A:9646:HOH:O	2.07	0.54
1:B:73:GLU:HG3	1:B:130:ALA:HA	1.90	0.54
2:C:305:PRO:O	2:C:308:ARG:HB3	2.07	0.54
2:C:714:ASP:OD2	2:C:719:PRO:HG3	2.08	0.54
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.89	0.54
2:C:878:SER:HA	3:D:1034:GLN:OE1	2.07	0.54
3:D:1462:LEU:HD21	3:D:1474:ALA:HB2	1.89	0.54
3:D:141:ILE:HG12	3:D:449:SER:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:62:LYS:HG3	9:D:2359:HOH:O	2.07	0.54
5:F:140:ARG:HA	9:F:9613:HOH:O	2.08	0.54
5:F:158:GLU:O	5:F:161:GLN:HB2	2.07	0.54
2:M:320:HIS:HA	9:M:9779:HOH:O	2.08	0.54
2:M:448:ASN:HB2	2:M:452:ILE:HD11	1.89	0.54
2:M:637:LEU:HD23	2:M:659:PRO:HG2	1.89	0.54
3:N:523:ASP:N	9:N:9625:HOH:O	2.41	0.54
3:N:644:LEU:HD12	3:N:645:PRO:N	2.23	0.54
5:P:270:LYS:HD2	9:P:8061:HOH:O	2.08	0.54
1:A:86:VAL:HG13	1:A:123:MET:HB2	1.90	0.53
2:C:1019:GLN:HE21	3:D:621:LYS:HG3	1.73	0.53
2:C:356:ARG:HA	9:C:2205:HOH:O	2.07	0.53
2:C:535:SER:OG	2:C:537:LYS:HE2	2.08	0.53
2:C:944:LEU:O	2:C:947:ALA:HB3	2.08	0.53
3:D:1136:LYS:HE3	3:D:1139:ASP:OD2	2.08	0.53
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.38	0.53
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.89	0.53
3:D:546:ARG:O	3:D:550:ARG:HG2	2.08	0.53
3:D:935:LYS:NZ	3:D:935:LYS:HB3	2.23	0.53
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.90	0.53
1:L:86:VAL:HG13	1:L:123:MET:HB2	1.89	0.53
2:M:266:ARG:HB2	2:M:288:ARG:NH1	2.23	0.53
2:M:50:GLU:HB3	9:M:9948:HOH:O	2.07	0.53
2:M:916:GLU:HA	9:M:9478:HOH:O	2.07	0.53
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.38	0.53
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.90	0.53
3:N:190:GLU:CD	3:N:190:GLU:H	2.11	0.53
5:P:222:ARG:HD3	9:P:1708:HOH:O	2.08	0.53
9:M:9380:HOH:O	5:P:279:GLN:HG2	2.09	0.53
5:P:291:ILE:HD13	5:P:304:VAL:CG1	2.38	0.53
2:C:408:ARG:NH1	2:C:542:VAL:HG13	2.23	0.53
2:C:31:GLN:HG3	2:C:40:GLU:O	2.08	0.53
9:A:9633:HOH:O	2:C:607:ASP:HA	2.08	0.53
2:C:84:ARG:HH12	2:C:128:ILE:HD13	1.73	0.53
3:D:1009:LYS:HE3	9:D:2148:HOH:O	2.09	0.53
3:D:720:LEU:H	3:D:720:LEU:HD12	1.71	0.53
5:F:277:GLN:O	5:F:280:GLN:HB3	2.07	0.53
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.90	0.53
2:M:148:PHE:HB3	2:M:313:LEU:CD2	2.36	0.53
2:M:173:ASP:HB2	2:M:185:LYS:HE3	1.89	0.53
2:M:244:PRO:HB3	9:M:9820:HOH:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:253:ALA:O	2:M:256:TYR:HB2	2.08	0.53
2:M:368:THR:HB	2:M:369:PRO:HD3	1.90	0.53
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.90	0.53
3:N:1063:GLU:HG3	3:N:1064:GLY:H	1.72	0.53
3:N:1066:THR:HG23	3:N:1069:GLU:OE1	2.08	0.53
3:N:389:GLU:HG3	9:N:2712:HOH:O	2.08	0.53
3:N:96:ALA:HB3	3:N:554:LEU:HG	1.90	0.53
3:N:99:ALA:HB1	3:N:575:GLN:NE2	2.23	0.53
2:C:239:PHE:CE1	2:C:246:ASP:HB3	2.44	0.53
2:C:571:LEU:HD13	2:C:670:GLN:OE1	2.08	0.53
3:D:1109:GLU:HA	9:D:2056:HOH:O	2.09	0.53
3:D:71:LYS:HB2	9:D:9610:HOH:O	2.08	0.53
5:F:135:ILE:HD11	5:F:178:ARG:HB3	1.89	0.53
5:F:292:ALA:HA	5:F:299:TRP:HB3	1.90	0.53
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.29	0.53
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.07	0.53
3:N:1301:LYS:HA	9:N:9307:HOH:O	2.08	0.53
3:N:147:VAL:HB	9:N:2267:HOH:O	2.07	0.53
3:N:397:LYS:HG2	9:N:2124:HOH:O	2.07	0.53
3:N:486:ARG:O	3:N:489:ARG:HG2	2.08	0.53
5:P:169:GLU:H	5:P:169:GLU:CD	2.11	0.53
9:N:9959:HOH:O	5:P:375:LEU:HD13	2.08	0.53
5:P:81:VAL:HG13	9:P:4331:HOH:O	2.07	0.53
1:A:44:LEU:HD22	9:A:9579:HOH:O	2.08	0.53
1:B:123:MET:C	1:B:125:PRO:HD3	2.28	0.53
2:C:36:PRO:HB3	9:C:9597:HOH:O	2.08	0.53
2:C:878:SER:HB2	3:D:1029:ARG:HD2	1.89	0.53
2:C:897:LEU:HD22	9:C:9860:HOH:O	2.08	0.53
3:D:1253:THR:HG23	3:D:1258:ARG:HH11	1.72	0.53
3:D:421:LEU:HG	9:D:2049:HOH:O	2.08	0.53
3:D:470:LEU:HD11	3:D:509:PRO:HG3	1.90	0.53
5:F:160:ASP:O	5:F:163:LEU:HB2	2.09	0.53
5:F:403:LYS:HD3	9:F:9572:HOH:O	2.08	0.53
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.44	0.53
2:M:722:ILE:O	2:M:722:ILE:HG23	2.08	0.53
3:N:1459:LEU:HD12	3:N:1470:ARG:HH11	1.74	0.53
3:N:221:ALA:HB2	9:N:2049:HOH:O	2.08	0.53
3:N:464:LEU:HA	9:N:2397:HOH:O	2.09	0.53
3:N:637:LEU:HD12	3:N:641:GLN:HG3	1.89	0.53
2:C:141:HIS:HB2	2:C:418:LEU:HD12	1.90	0.53
2:C:165:LEU:HA	2:C:166:PRO:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:267:TYR:CE1	2:C:338:GLU:HG3	2.43	0.53
2:C:432:ARG:HG3	2:C:432:ARG:NH1	2.23	0.53
2:C:721:ARG:HE	2:C:783:ARG:NH2	2.06	0.53
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.89	0.53
3:D:1364:HIS:ND1	3:D:1366:LYS:HG3	2.23	0.53
3:D:243:ALA:HB2	9:D:2875:HOH:O	2.09	0.53
3:D:584:ASN:H	3:D:602:SER:CB	2.21	0.53
3:D:7:LYS:HE2	9:D:2085:HOH:O	2.09	0.53
3:D:961:LYS:HD2	9:D:9896:HOH:O	2.08	0.53
1:K:9:PRO:HB3	1:K:25:LEU:HG	1.91	0.53
1:L:184:THR:HG22	1:L:192:LEU:O	2.07	0.53
1:L:97:VAL:HG23	9:L:7067:HOH:O	2.08	0.53
2:M:12:VAL:HG12	2:M:534:VAL:HG13	1.91	0.53
2:M:594:ALA:HB1	2:M:656:ALA:O	2.09	0.53
2:M:9:ILE:HG12	2:M:907:ASP:CG	2.28	0.53
3:N:1246:VAL:HG22	9:N:2507:HOH:O	2.08	0.53
3:N:429:SER:HA	9:N:2866:HOH:O	2.09	0.53
3:N:819:GLY:O	3:N:822:ALA:HB3	2.08	0.53
3:N:854:ALA:HB2	9:N:9448:HOH:O	2.07	0.53
1:A:213:GLN:O	1:A:217:ILE:HG13	2.08	0.53
2:C:1057:SER:OG	3:D:621:LYS:HG2	2.09	0.53
2:C:18:LEU:HD23	2:C:542:VAL:HG11	1.90	0.53
2:C:759:THR:HG21	2:C:783:ARG:NH1	2.23	0.53
2:C:84:ARG:HA	9:C:9908:HOH:O	2.08	0.53
3:D:1173:LEU:HD22	9:D:9959:HOH:O	2.08	0.53
3:D:412:GLY:O	3:D:421:LEU:HB3	2.09	0.53
3:D:601:ARG:HH22	3:D:613:ARG:NE	2.06	0.53
3:D:676:MET:CE	3:D:684:LYS:H	2.22	0.53
2:M:1052:MET:SD	2:M:1056:LYS:HD3	2.48	0.53
2:M:141:HIS:HE1	2:M:332:ARG:HD3	1.74	0.53
2:M:379:GLU:O	2:M:383:ARG:HB2	2.08	0.53
2:M:536:PRO:CG	2:M:906:PHE:HB2	2.39	0.53
3:N:1472:ILE:O	3:N:1477:GLY:HA3	2.08	0.53
2:M:1005:MET:HE1	3:N:648:MET:HB2	1.91	0.53
1:B:206:THR:HB	1:B:209:GLU:OE2	2.09	0.53
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.08	0.53
2:C:136:ILE:CG2	2:C:336:VAL:HG13	2.39	0.53
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.28	0.53
2:C:929:ARG:HH11	2:C:929:ARG:HG3	1.73	0.53
3:D:1264:GLU:HG2	9:D:9600:HOH:O	2.07	0.53
3:D:1384:PRO:HB3	9:D:2732:HOH:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:138:LYS:HA	9:D:2798:HOH:O	2.09	0.53
3:D:489:ARG:HE	3:D:493:ARG:NH2	1.97	0.53
2:C:874:LEU:HD11	3:D:784:ASP:HA	1.91	0.53
3:D:984:THR:HG23	3:D:986:ARG:H	1.73	0.53
2:C:1102:LEU:HD11	3:D:9:ARG:HG2	1.90	0.53
4:E:15:SER:HA	9:E:9559:HOH:O	2.08	0.53
5:F:172:ARG:O	5:F:176:ILE:HG13	2.09	0.53
2:M:1056:LYS:HE2	9:M:9265:HOH:O	2.09	0.53
2:M:280:LYS:HG2	9:M:2041:HOH:O	2.09	0.53
2:M:777:ILE:HG23	5:P:409:LYS:CB	2.31	0.53
3:N:637:LEU:HD11	3:N:642:CYS:N	2.24	0.53
3:N:728:LEU:HD12	3:N:729:HIS:H	1.74	0.53
3:N:907:GLU:OE1	3:N:909:ASN:HB2	2.09	0.53
5:P:76:SER:HB2	9:P:1916:HOH:O	2.08	0.53
1:A:10:VAL:HG12	1:A:12:THR:HG23	1.90	0.53
1:A:27:PRO:HB2	9:A:9811:HOH:O	2.08	0.53
1:B:175:ARG:HB2	1:B:200:TRP:HB3	1.91	0.53
1:B:23:PHE:HE1	1:B:208:LEU:HD13	1.74	0.53
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.24	0.53
2:C:1065:ALA:HB1	2:C:1077:PRO:HG2	1.90	0.53
2:C:137:VAL:HG21	2:C:393:GLN:HE22	1.73	0.53
2:C:26:TYR:CE2	2:C:30:LEU:HD21	2.43	0.53
2:C:976:ASP:HA	9:C:9567:HOH:O	2.09	0.53
3:D:1231:GLU:HG3	3:D:1232:PRO:N	2.23	0.53
3:D:487:ALA:CB	3:D:488:ARG:HH21	2.22	0.53
3:D:564:GLU:HB3	9:D:9582:HOH:O	2.08	0.53
3:D:865:THR:HG22	3:D:874:GLU:HG2	1.91	0.53
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.90	0.53
5:F:132:ARG:HH21	5:F:184:ARG:NH1	2.06	0.53
5:F:420:ASP:HA	9:F:9593:HOH:O	2.08	0.53
2:M:225:SER:HB2	2:M:229:MET:HE2	1.91	0.53
3:N:1304:LYS:H	3:N:1304:LYS:HD3	1.74	0.53
3:N:1383:ASP:HB3	3:N:1416:ALA:H	1.74	0.53
3:N:484:PRO:HB3	9:N:9533:HOH:O	2.09	0.53
3:N:112:ILE:HG22	3:N:512:MET:SD	2.49	0.53
4:O:27:ALA:O	4:O:31:LEU:HG	2.09	0.53
5:P:234:LYS:HB2	9:P:4664:HOH:O	2.07	0.53
1:B:153:ALA:HA	1:B:156:HIS:NE2	2.24	0.53
1:B:176:ARG:HG3	1:B:200:TRP:CE3	2.44	0.53
1:B:182:GLU:O	1:B:194:LYS:HB3	2.09	0.53
2:C:1092:LEU:CD1	2:C:1099:VAL:HG21	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.22	0.53
2:C:193:LEU:HD13	2:C:193:LEU:O	2.09	0.53
2:C:423:ALA:HA	9:C:2245:HOH:O	2.09	0.53
2:C:455:LEU:HD13	2:C:459:ALA:HB3	1.91	0.53
2:C:485:TYR:HD2	9:C:9588:HOH:O	1.90	0.53
2:C:64:LEU:HD11	9:C:2120:HOH:O	2.08	0.53
2:C:876:VAL:H	2:C:877:PRO:HD2	1.74	0.53
3:D:1003:VAL:O	3:D:1007:VAL:HG13	2.08	0.53
3:D:432:TYR:HA	3:D:448:GLU:O	2.08	0.53
3:D:462:GLN:HG3	3:D:513:ILE:HD13	1.91	0.53
3:D:994:GLN:O	3:D:998:GLU:HG3	2.08	0.53
5:F:157:GLU:HA	9:F:2058:HOH:O	2.08	0.53
1:K:123:MET:C	1:K:125:PRO:HD3	2.29	0.53
1:K:96:THR:OG1	1:K:143:ARG:HD2	2.09	0.53
1:L:182:GLU:HA	9:N:9281:HOH:O	2.09	0.53
1:L:87:VAL:HG23	9:L:1617:HOH:O	2.09	0.53
2:M:142:ARG:HD3	9:M:2230:HOH:O	2.09	0.53
2:M:150:PRO:HB2	9:M:9278:HOH:O	2.07	0.53
2:M:139:GLN:O	2:M:333:ILE:HA	2.08	0.53
2:M:473:ARG:HB3	9:M:9208:HOH:O	2.09	0.53
2:M:713:ARG:O	2:M:720:GLU:HG3	2.09	0.53
2:M:904:PRO:HG2	9:M:9888:HOH:O	2.08	0.53
3:N:118:LEU:O	3:N:120:ALA:N	2.41	0.53
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.09	0.53
3:N:608:SER:O	3:N:614:PHE:HB2	2.09	0.53
3:N:814:ALA:O	3:N:818:ARG:HG3	2.09	0.53
4:O:41:GLU:HG2	9:O:1576:HOH:O	2.09	0.53
5:P:266:GLU:HG3	9:P:8061:HOH:O	2.08	0.53
2:C:41:ASN:HD22	2:C:41:ASN:H	1.56	0.53
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.91	0.53
2:C:751:PRO:HA	2:C:792:VAL:HB	1.89	0.53
2:C:897:LEU:HB3	2:C:899:GLN:HG2	1.91	0.53
3:D:1197:ARG:HD2	3:D:1396:GLU:CB	2.36	0.53
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.38	0.53
3:D:1337:GLU:HA	9:D:9894:HOH:O	2.09	0.53
3:D:1383:ASP:HB3	3:D:1416:ALA:H	1.73	0.53
3:D:1495:ILE:HD12	3:D:1498:ALA:HB3	1.90	0.53
3:D:804:LEU:HD12	3:D:831:GLY:HA3	1.90	0.53
5:F:119:ILE:HD13	5:F:170:HIS:CG	2.44	0.53
1:L:136:GLY:HA3	9:L:1193:HOH:O	2.07	0.53
2:M:290:LEU:H	2:M:290:LEU:HD13	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:663:ASN:HB2	9:M:9366:HOH:O	2.08	0.53
2:M:695:LEU:HD21	2:M:833:LEU:HB3	1.91	0.53
2:M:841:ASN:HD22	2:M:841:ASN:N	2.06	0.53
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.09	0.53
3:N:1320:GLU:H	3:N:1323:GLN:NE2	2.06	0.53
3:N:187:LYS:HD3	9:N:9419:HOH:O	2.09	0.53
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.44	0.53
3:N:89:ARG:O	3:N:521:PRO:HG3	2.09	0.53
5:P:393:THR:CG2	5:P:394:ARG:H	2.22	0.53
1:B:178:ALA:C	1:B:198:ARG:HH21	2.12	0.52
1:B:2:LEU:HD12	1:B:3:ASP:N	2.24	0.52
1:B:5:LYS:HG3	9:B:9765:HOH:O	2.08	0.52
2:C:100:LEU:HD23	2:C:368:THR:HA	1.90	0.52
2:C:205:GLU:HB3	9:C:2115:HOH:O	2.09	0.52
3:D:1020:LEU:HA	3:D:1023:MET:HE2	1.90	0.52
3:D:1446:VAL:HG22	9:D:9970:HOH:O	2.09	0.52
3:D:98:PRO:O	3:D:458:ALA:HB3	2.08	0.52
3:D:591:VAL:HG12	3:D:592:THR:O	2.09	0.52
2:C:1039:ALA:HB3	3:D:713:ILE:HD12	1.90	0.52
2:C:114:PHE:HE2	5:F:283:GLY:HA3	1.73	0.52
5:F:315:VAL:HG12	5:F:316:SER:N	2.24	0.52
5:F:376:ILE:HD13	9:F:2134:HOH:O	2.07	0.52
1:K:227:ASN:HD22	1:K:227:ASN:H	1.56	0.52
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.09	0.52
2:M:186:VAL:HG23	2:M:187:ASN:H	1.73	0.52
2:M:443:THR:HB	2:M:453:THR:HG22	1.91	0.52
2:M:637:LEU:HB2	9:M:9559:HOH:O	2.09	0.52
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.91	0.52
2:M:722:ILE:HG22	9:M:9639:HOH:O	2.09	0.52
1:A:73:GLU:HG3	1:A:130:ALA:HA	1.90	0.52
1:B:26:GLU:HB3	1:B:194:LYS:HG3	1.91	0.52
1:B:90:LEU:HB3	9:B:9609:HOH:O	2.09	0.52
2:C:805:ARG:HA	9:C:9907:HOH:O	2.10	0.52
3:D:1173:LEU:HB3	9:D:9959:HOH:O	2.08	0.52
3:D:1232:PRO:HB2	3:D:1356:TYR:HE2	1.74	0.52
3:D:634:GLY:O	3:D:637:LEU:HB3	2.08	0.52
3:D:819:GLY:O	3:D:822:ALA:HB3	2.09	0.52
1:L:165:ILE:HD12	1:L:165:ILE:O	2.09	0.52
1:L:212:ASN:O	1:L:215:VAL:HG22	2.09	0.52
2:M:1009:SER:HB2	3:N:651:GLU:O	2.09	0.52
2:M:267:TYR:CE1	2:M:338:GLU:HG3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:289:THR:O	2:M:291:ALA:N	2.42	0.52
2:M:602:GLU:HG2	2:M:603:VAL:N	2.24	0.52
5:P:367:MET:HA	5:P:370:LYS:HD3	1.92	0.52
2:C:1001:VAL:HG13	9:C:9609:HOH:O	2.10	0.52
2:C:243:ARG:O	2:C:243:ARG:HD2	2.09	0.52
2:C:752:GLY:N	2:C:792:VAL:HB	2.25	0.52
3:D:1496:GLU:O	3:D:1500:LYS:HG3	2.09	0.52
3:D:439:LEU:HB3	9:D:2486:HOH:O	2.10	0.52
5:F:112:ALA:O	5:F:116:LEU:HG	2.10	0.52
5:F:264:MET:O	5:F:268:ILE:HG13	2.09	0.52
5:F:323:ASP:O	5:F:325:LYS:HG3	2.10	0.52
5:F:357:ALA:O	5:F:361:LEU:HD23	2.09	0.52
1:K:154:GLU:HA	9:M:9690:HOH:O	2.09	0.52
1:K:36:LEU:O	1:K:39:PRO:HD2	2.09	0.52
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.39	0.52
2:M:165:LEU:HA	2:M:166:PRO:O	2.10	0.52
2:M:185:LYS:HD2	9:M:9853:HOH:O	2.08	0.52
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.91	0.52
2:M:402:SER:HA	2:M:566:THR:HG23	1.92	0.52
2:M:774:LEU:O	2:M:777:ILE:HB	2.09	0.52
3:N:1014:ASN:O	3:N:1016:PRO:HD3	2.09	0.52
3:N:1075:HIS:HA	9:N:9472:HOH:O	2.09	0.52
3:N:1490:LYS:HE3	9:O:1697:HOH:O	2.10	0.52
3:N:792:ILE:HG23	3:N:793:THR:HG23	1.89	0.52
4:O:48:MET:CB	4:O:54:LEU:HB2	2.39	0.52
4:O:50:THR:HG22	9:O:1369:HOH:O	2.10	0.52
4:O:57:ASP:H	4:O:58:PRO:HD3	1.75	0.52
1:B:45:LEU:HD21	1:B:177:VAL:HG23	1.90	0.52
2:C:294:GLU:HB2	9:C:2038:HOH:O	2.09	0.52
2:C:965:GLU:HA	9:C:2351:HOH:O	2.09	0.52
3:D:1165:TYR:OH	3:D:1203:LYS:HD3	2.09	0.52
3:D:228:ALA:HA	9:D:9867:HOH:O	2.10	0.52
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.91	0.52
3:D:690:ALA:O	3:D:694:VAL:HG23	2.10	0.52
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.92	0.52
3:D:972:LEU:HG	3:D:976:GLN:NE2	2.19	0.52
4:E:83:ASP:HA	9:E:9560:HOH:O	2.09	0.52
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.90	0.52
1:L:143:ARG:NE	1:L:158:ILE:HG21	2.24	0.52
2:M:17:PRO:HD3	9:M:9857:HOH:O	2.08	0.52
2:M:237:ARG:HG3	9:M:9694:HOH:O	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1378:TYR:HD1	3:N:1422:MET:SD	2.32	0.52
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.08	0.52
3:N:1440:PHE:HB3	3:N:1442:ASN:ND2	2.24	0.52
3:N:431:VAL:HG21	9:N:9483:HOH:O	2.08	0.52
3:N:704:ARG:CD	3:N:705:ALA:H	2.21	0.52
3:N:899:LEU:HD13	3:N:900:ILE:HG23	1.90	0.52
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.91	0.52
2:M:987:ILE:CG2	3:N:948:THR:HG21	2.39	0.52
2:M:1014:SER:HA	5:P:334:PRO:HA	1.92	0.52
5:P:392:VAL:HG13	9:P:6344:HOH:O	2.09	0.52
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.90	0.52
2:C:136:ILE:HD13	2:C:392:SER:HB2	1.92	0.52
2:C:266:ARG:HB2	2:C:288:ARG:HE	1.75	0.52
2:C:435:TYR:O	2:C:437:ARG:HG3	2.09	0.52
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.90	0.52
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.75	0.52
3:D:169:TYR:HA	3:D:392:SER:HA	1.91	0.52
2:C:682:TYR:HA	3:D:635:PRO:HG2	1.91	0.52
3:D:817:GLU:O	3:D:821:VAL:HG23	2.09	0.52
3:D:8:VAL:HG12	3:D:1434:TRP:HH2	1.74	0.52
3:D:970:LYS:HD2	9:D:2768:HOH:O	2.09	0.52
5:F:96:LEU:HB2	9:F:9854:HOH:O	2.09	0.52
1:L:184:THR:O	1:L:192:LEU:HB2	2.09	0.52
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	2.08	0.52
2:M:599:GLU:HG2	9:M:9329:HOH:O	2.09	0.52
2:M:651:LYS:HB3	9:M:9725:HOH:O	2.09	0.52
3:N:1277:ILE:HD11	9:N:2604:HOH:O	2.08	0.52
3:N:1284:GLU:HB3	9:N:2710:HOH:O	2.08	0.52
3:N:518:PRO:HB3	9:N:9475:HOH:O	2.09	0.52
3:N:828:LYS:HE3	9:N:9267:HOH:O	2.09	0.52
9:M:9280:HOH:O	3:N:952:ASP:HB3	2.09	0.52
5:P:123:ASP:HB3	5:P:125:ASP:OD1	2.09	0.52
5:P:295:MET:HB3	5:P:299:TRP:CD1	2.44	0.52
2:C:1007:ALA:HB2	3:D:648:MET:HG3	1.90	0.52
2:C:267:TYR:HA	9:C:9947:HOH:O	2.08	0.52
2:C:594:ALA:HB1	2:C:656:ALA:O	2.09	0.52
3:D:1410:GLU:HA	9:D:9597:HOH:O	2.08	0.52
3:D:498:VAL:HG13	9:D:2123:HOH:O	2.10	0.52
3:D:643:GLY:HA3	3:D:727:GLN:HG3	1.92	0.52
5:F:376:ILE:HD12	9:F:2054:HOH:O	2.10	0.52
5:F:398:ARG:HG2	5:F:402:ASN:ND2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:42:ARG:NH1	9:K:1228:HOH:O	2.41	0.52
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.10	0.52
2:M:725:ASP:HB3	2:M:783:ARG:NH1	2.25	0.52
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	2.24	0.52
3:N:583:ASP:HA	3:N:602:SER:OG	2.09	0.52
4:O:40:LEU:HD12	4:O:40:LEU:O	2.09	0.52
4:O:51:LEU:C	4:O:53:GLY:H	2.12	0.52
5:P:364:ARG:HB3	5:P:365:GLU:OE1	2.10	0.52
1:A:125:PRO:HB2	9:A:9597:HOH:O	2.10	0.52
1:B:184:THR:O	1:B:192:LEU:HB2	2.10	0.52
1:B:20:TYR:HE2	1:B:198:ARG:HB3	1.74	0.52
2:C:1015:LEU:HD12	5:F:333:ILE:HG21	1.92	0.52
2:C:1008:ARG:HD2	2:C:1028:GLY:C	2.30	0.52
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.74	0.52
2:C:597:ALA:HA	9:C:9658:HOH:O	2.10	0.52
2:C:838:LYS:HD2	2:C:846:LYS:HZ1	1.75	0.52
3:D:1478:SER:HA	9:D:9950:HOH:O	2.10	0.52
3:D:480:GLU:O	3:D:484:PRO:HD2	2.10	0.52
9:D:9641:HOH:O	5:F:375:LEU:HD11	2.08	0.52
1:L:125:PRO:HD2	9:L:2226:HOH:O	2.09	0.52
2:M:1054:THR:HG23	2:M:1059:ASP:CB	2.39	0.52
2:M:383:ARG:HG2	9:M:9403:HOH:O	2.09	0.52
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.45	0.52
3:N:1433:SER:HB2	3:N:1457:ASP:CG	2.30	0.52
3:N:1465:ASN:HD21	3:N:1470:ARG:CZ	2.23	0.52
3:N:493:ARG:O	3:N:497:GLU:HG3	2.10	0.52
3:N:601:ARG:HB2	5:P:318:GLU:CD	2.30	0.52
8:N:9101:G4P:H4'	9:N:9248:HOH:O	2.10	0.52
3:N:785:ILE:HG12	3:N:935:LYS:HA	1.92	0.52
5:P:203:THR:HG22	9:P:4204:HOH:O	2.09	0.52
1:A:14:ARG:HG2	9:A:9563:HOH:O	2.09	0.52
1:A:50:GLY:CA	1:A:173:PRO:HG3	2.39	0.52
1:A:176:ARG:HD2	9:A:9580:HOH:O	2.10	0.52
2:C:216:GLU:HG2	2:C:217:LEU:HD23	1.91	0.52
2:C:534:VAL:N	2:C:538:GLN:HE22	2.08	0.52
3:D:152:LEU:HD23	3:D:152:LEU:N	2.25	0.52
3:D:191:LEU:CB	3:D:195:VAL:HG21	2.37	0.52
3:D:431:VAL:HG11	9:D:9858:HOH:O	2.10	0.52
3:D:507:ASN:HA	9:D:9571:HOH:O	2.08	0.52
5:F:259:ARG:HG2	5:F:259:ARG:HH11	1.74	0.52
2:M:129:ILE:HG22	2:M:130:ASN:H	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:727:PRO:HG3	2:M:783:ARG:NH1	2.25	0.52
2:M:771:GLU:HB2	9:M:9677:HOH:O	2.09	0.52
3:N:119:SER:HB2	3:N:123:LEU:CB	2.35	0.52
3:N:436:GLU:HB2	3:N:445:ARG:HB2	1.91	0.52
3:N:524:LEU:C	3:N:526:PRO:HD3	2.30	0.52
3:N:657:LEU:HD13	3:N:691:LEU:HA	1.91	0.52
2:M:949:LYS:NZ	3:N:796:ARG:HH22	2.08	0.52
3:N:875:THR:HG21	3:N:902:LEU:HD12	1.92	0.52
5:P:395:GLU:O	5:P:399:GLN:HB2	2.09	0.52
1:A:153:ALA:HB3	9:A:9823:HOH:O	2.09	0.52
2:C:224:GLU:OE1	2:C:226:VAL:HB	2.09	0.52
2:C:242:LEU:HA	9:C:9763:HOH:O	2.08	0.52
2:C:620:LEU:HA	9:C:9918:HOH:O	2.08	0.52
2:C:841:ASN:C	2:C:841:ASN:HD22	2.12	0.52
3:D:1132:LEU:HB2	9:D:2139:HOH:O	2.10	0.52
3:D:1104:GLU:OE2	3:D:1432:LYS:HE2	2.10	0.52
5:F:135:ILE:CD1	5:F:178:ARG:HD2	2.39	0.52
5:F:270:LYS:HE2	9:F:2083:HOH:O	2.09	0.52
1:L:12:THR:HB	9:L:8156:HOH:O	2.08	0.52
1:L:42:ARG:HH11	1:L:42:ARG:HG2	1.74	0.52
2:M:690:ILE:HG12	2:M:849:VAL:HG13	1.91	0.52
3:N:1403:LEU:HD23	9:N:9392:HOH:O	2.10	0.52
3:N:141:ILE:HB	9:N:9513:HOH:O	2.09	0.52
3:N:215:TYR:O	3:N:389:GLU:HB3	2.10	0.52
9:M:9265:HOH:O	3:N:751:LEU:HG	2.10	0.52
3:N:909:ASN:HA	3:N:912:LYS:HZ2	1.74	0.52
5:P:270:LYS:HD3	9:P:5561:HOH:O	2.09	0.52
1:A:51:THR:HG23	9:A:9681:HOH:O	2.08	0.52
1:A:61:VAL:HA	9:A:9599:HOH:O	2.08	0.52
2:C:420:ARG:HD3	9:C:9964:HOH:O	2.09	0.52
2:C:606:VAL:HG21	2:C:645:VAL:HG22	1.91	0.52
2:C:791:ARG:HB2	9:C:2241:HOH:O	2.09	0.52
2:C:866:PRO:HD2	9:C:2231:HOH:O	2.09	0.52
3:D:804:LEU:HD12	3:D:804:LEU:O	2.10	0.52
5:F:185:GLN:HA	5:F:188:ILE:HD12	1.92	0.52
1:L:194:LYS:HG2	9:L:1718:HOH:O	2.10	0.52
2:M:206:THR:O	2:M:210:GLU:HB2	2.09	0.52
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.92	0.52
2:M:55:GLU:HG3	9:M:2409:HOH:O	2.09	0.52
2:M:604:ALA:HB3	2:M:612:VAL:O	2.10	0.52
2:M:786:LYS:HA	9:M:9432:HOH:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1258:ARG:NH2	3:N:1262:LEU:HD11	2.25	0.52
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.92	0.52
3:N:414:ARG:HG2	9:N:9972:HOH:O	2.10	0.52
3:N:459:GLU:O	3:N:463:GLN:HG2	2.09	0.52
4:O:33:HIS:CG	4:O:89:MET:HG2	2.45	0.52
5:P:214:GLN:O	5:P:217:ASN:HB2	2.10	0.52
9:M:9336:HOH:O	5:P:342:VAL:HA	2.09	0.52
1:B:160:ASP:HB2	9:B:9744:HOH:O	2.10	0.51
2:C:166:PRO:HD2	9:C:9681:HOH:O	2.09	0.51
2:C:250:ARG:HG2	9:C:9691:HOH:O	2.10	0.51
2:C:503:LEU:HD23	9:C:2771:HOH:O	2.09	0.51
1:A:177:VAL:O	2:C:864:GLY:HA2	2.09	0.51
3:D:1127:GLU:HB2	9:D:9997:HOH:O	2.09	0.51
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.91	0.51
3:D:422:ALA:H	3:D:427:VAL:HG11	1.75	0.51
3:D:623:VAL:HG12	3:D:625:TYR:H	1.75	0.51
1:K:189:ARG:HD3	9:K:2051:HOH:O	2.10	0.51
1:L:175:ARG:HB2	1:L:200:TRP:HB3	1.91	0.51
2:M:284:ARG:HD3	9:M:2023:HOH:O	2.10	0.51
2:M:755:LEU:HD11	2:M:792:VAL:HA	1.92	0.51
3:N:1120:VAL:HB	3:N:1144:LEU:HD21	1.92	0.51
3:N:65:ARG:CG	5:P:375:LEU:HD12	2.40	0.51
3:N:692:GLU:CG	3:N:720:LEU:HD12	2.40	0.51
3:N:971:LEU:O	3:N:975:GLU:HG2	2.09	0.51
5:P:158:GLU:HA	5:P:161:GLN:NE2	2.25	0.51
5:P:340:SER:O	5:P:342:VAL:N	2.43	0.51
1:B:101:LEU:HA	9:B:9586:HOH:O	2.09	0.51
1:B:126:ASP:HA	9:B:9726:HOH:O	2.09	0.51
2:C:1017:THR:HG23	9:C:9664:HOH:O	2.09	0.51
2:C:166:PRO:HG2	9:C:9694:HOH:O	2.09	0.51
2:C:773:LEU:HD23	2:C:774:LEU:N	2.24	0.51
2:C:99:GLN:HA	9:C:2465:HOH:O	2.08	0.51
2:C:1096:ALA:O	3:D:13:ALA:HB2	2.10	0.51
3:D:609:GLY:CA	3:D:613:ARG:HB3	2.40	0.51
3:D:56:TYR:O	3:D:80:VAL:HG11	2.10	0.51
4:E:51:LEU:HG	4:E:53:GLY:N	2.26	0.51
5:F:110:MET:O	5:F:114:LYS:HG3	2.10	0.51
1:K:29:GLU:HB2	9:K:2006:HOH:O	2.10	0.51
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.31	0.51
2:M:735:ARG:HD2	9:M:2232:HOH:O	2.10	0.51
2:M:756:VAL:O	2:M:789:SER:HB3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1038:LEU:HA	3:N:1061:PHE:HB2	1.92	0.51
3:N:1137:ARG:CD	3:N:1137:ARG:H	2.13	0.51
3:N:197:SER:HB2	3:N:205:TYR:HE1	1.72	0.51
3:N:98:PRO:CG	3:N:462:GLN:HE22	2.17	0.51
3:N:475:LYS:O	3:N:478:LEU:HB2	2.10	0.51
3:N:732:VAL:HG11	3:N:765:SER:OG	2.10	0.51
3:N:853:VAL:HG13	3:N:858:VAL:O	2.09	0.51
9:N:9482:HOH:O	5:P:132:ARG:HD3	2.10	0.51
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.09	0.51
2:C:252:LYS:HE3	9:C:2326:HOH:O	2.10	0.51
2:C:288:ARG:HG3	2:C:289:THR:N	2.26	0.51
2:C:384:GLU:HA	2:C:388:ARG:HH21	1.75	0.51
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.93	0.51
3:D:1336:LEU:HD13	3:D:1344:VAL:HG21	1.92	0.51
3:D:881:LEU:HD11	3:D:884:ARG:NH2	2.25	0.51
5:F:144:ILE:HG23	9:F:9661:HOH:O	2.11	0.51
5:F:393:THR:HA	9:F:9726:HOH:O	2.09	0.51
1:K:155:LYS:HE3	9:K:2316:HOH:O	2.09	0.51
2:M:164:PRO:HB3	9:M:9286:HOH:O	2.09	0.51
2:M:230:ARG:NH1	9:M:9242:HOH:O	2.43	0.51
2:M:312:ALA:HB1	2:M:318:PRO:CG	2.39	0.51
2:M:444:PRO:HD2	2:M:452:ILE:HG13	1.92	0.51
2:M:597:ALA:HB1	9:M:9609:HOH:O	2.09	0.51
2:M:798:GLY:H	2:M:827:VAL:CG1	2.23	0.51
3:N:679:ARG:HG2	3:N:681:ARG:HD3	1.92	0.51
3:N:984:THR:CG2	3:N:987:GLU:H	2.23	0.51
1:B:194:LYS:HG2	9:B:9628:HOH:O	2.11	0.51
2:C:1069:ALA:HA	2:C:1074:GLU:OE1	2.10	0.51
2:C:1101:THR:HG22	3:D:8:VAL:HG22	1.91	0.51
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.40	0.51
3:D:1309:ALA:HA	9:D:9716:HOH:O	2.11	0.51
3:D:1411:GLY:O	3:D:1413:THR:HG23	2.10	0.51
3:D:1472:ILE:O	3:D:1477:GLY:HA3	2.11	0.51
3:D:699:VAL:CG1	3:D:717:GLN:HG2	2.41	0.51
9:C:9793:HOH:O	3:D:90:MET:HB2	2.10	0.51
3:D:889:ALA:O	3:D:929:ARG:HD2	2.11	0.51
3:D:984:THR:CG2	3:D:987:GLU:H	2.24	0.51
4:E:90:GLU:HG3	9:E:9578:HOH:O	2.10	0.51
5:F:140:ARG:HG3	5:F:141:VAL:N	2.26	0.51
1:L:91:ASN:O	1:L:94:LEU:HD12	2.10	0.51
2:M:120:LEU:O	2:M:127:PHE:HD1	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:140:ILE:HG22	2:M:331:ARG:HB3	1.93	0.51
3:N:1244:GLY:HA3	9:N:9415:HOH:O	2.11	0.51
3:N:1412:LYS:HG3	3:N:1412:LYS:O	2.10	0.51
3:N:550:ARG:NH1	3:N:550:ARG:HG3	2.23	0.51
3:N:602:SER:HB3	9:N:9292:HOH:O	2.11	0.51
3:N:768:ASN:HB3	9:N:9759:HOH:O	2.11	0.51
5:P:139:ALA:HB1	5:P:152:ASP:HB3	1.92	0.51
5:P:392:VAL:HG12	5:P:396:ARG:HB2	1.92	0.51
2:C:1014:SER:CB	5:F:331:ASP:HA	2.40	0.51
2:C:218:VAL:O	2:C:221:LEU:HB3	2.11	0.51
2:C:54:ILE:HG23	2:C:54:ILE:O	2.10	0.51
3:D:1013:GLU:HG3	9:D:9868:HOH:O	2.10	0.51
3:D:1497:GLU:O	3:D:1501:GLU:HG3	2.10	0.51
3:D:402:PRO:HB3	9:D:9656:HOH:O	2.09	0.51
3:D:28:LYS:HD2	3:D:41:ARG:CD	2.41	0.51
3:D:486:ARG:HA	3:D:486:ARG:HE	1.76	0.51
3:D:609:GLY:HA2	3:D:613:ARG:HB3	1.92	0.51
3:D:699:VAL:N	3:D:756:GLN:HE22	2.09	0.51
5:F:273:ARG:HA	5:F:276:ARG:NH1	2.23	0.51
5:F:314:PRO:HB2	9:F:9559:HOH:O	2.09	0.51
9:C:9824:HOH:O	5:F:373:LYS:HB3	2.09	0.51
1:K:123:MET:HB3	9:K:1711:HOH:O	2.09	0.51
1:K:42:ARG:NH1	9:K:4396:HOH:O	2.43	0.51
2:M:279:GLU:HG3	2:M:280:LYS:N	2.26	0.51
2:M:260:LEU:HA	2:M:291:ALA:CB	2.39	0.51
2:M:524:VAL:HG22	2:M:525:SER:N	2.26	0.51
2:M:697:ARG:HG3	9:M:9636:HOH:O	2.09	0.51
2:M:824:ARG:HD3	9:M:9630:HOH:O	2.11	0.51
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.46	0.51
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.75	0.51
9:M:2120:HOH:O	4:O:32:ARG:HA	2.09	0.51
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.25	0.51
5:P:366:ALA:O	5:P:370:LYS:HB3	2.10	0.51
1:A:146:ARG:HG3	9:A:9567:HOH:O	2.11	0.51
1:A:45:LEU:HD21	9:A:9583:HOH:O	2.11	0.51
1:B:129:ILE:HG23	9:B:9809:HOH:O	2.10	0.51
1:B:6:LEU:C	1:B:8:ALA:H	2.14	0.51
2:C:182:VAL:HG12	9:C:9945:HOH:O	2.11	0.51
2:C:283:ILE:HG22	9:C:2143:HOH:O	2.11	0.51
2:C:476:GLY:C	2:C:478:VAL:H	2.14	0.51
2:C:857:ASP:HB2	2:C:978:ARG:CG	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:861:LEU:HD23	2:C:863:ASP:N	2.26	0.51
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.46	0.51
3:D:1264:GLU:O	3:D:1266:ARG:HG3	2.10	0.51
5:F:126:LEU:O	5:F:130:VAL:HG23	2.11	0.51
1:L:206:THR:CG2	1:L:209:GLU:H	2.23	0.51
2:M:1045:ALA:HA	3:N:758:GLU:OE1	2.11	0.51
2:M:1108:PRO:HD2	9:M:2092:HOH:O	2.10	0.51
2:M:455:LEU:HD13	2:M:456:ALA:O	2.10	0.51
2:M:651:LYS:HE3	9:M:9350:HOH:O	2.10	0.51
2:M:674:VAL:HG23	2:M:869:VAL:O	2.11	0.51
3:N:1368:ILE:O	3:N:1372:VAL:HG23	2.10	0.51
3:N:186:VAL:HG11	3:N:213:VAL:HB	1.93	0.51
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.92	0.51
3:N:893:GLU:HA	9:N:9628:HOH:O	2.10	0.51
5:P:404:ALA:HB2	9:P:7921:HOH:O	2.09	0.51
1:B:51:THR:HA	1:B:171:PHE:HD1	1.76	0.51
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.93	0.51
2:C:1088:LEU:O	2:C:1091:GLU:HB2	2.11	0.51
2:C:276:LYS:HD3	9:C:2144:HOH:O	2.10	0.51
3:D:162:ARG:HG3	3:D:163:TYR:N	2.26	0.51
3:D:171:LEU:HG	9:D:3222:HOH:O	2.11	0.51
3:D:493:ARG:HD2	3:D:1390:LEU:HD21	1.92	0.51
3:D:581:LEU:H	3:D:581:LEU:HD23	1.75	0.51
3:D:770:LEU:HA	9:D:9581:HOH:O	2.11	0.51
3:D:809:PRO:O	3:D:812:ALA:HB3	2.11	0.51
3:D:853:VAL:HG13	3:D:858:VAL:O	2.11	0.51
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.46	0.51
2:M:603:VAL:O	2:M:646:GLY:HA2	2.11	0.51
3:N:1044:LEU:HD21	3:N:1056:PRO:HG3	1.92	0.51
3:N:1087:ARG:NE	3:N:1238:MET:HB2	2.26	0.51
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.10	0.51
3:N:474:GLU:O	3:N:478:LEU:HG	2.10	0.51
3:N:67:ARG:CD	5:P:375:LEU:HD11	2.36	0.51
2:C:583:LEU:O	2:C:587:VAL:HG23	2.10	0.51
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.92	0.51
3:D:783:ARG:NH1	3:D:1029:ARG:HD3	2.26	0.51
3:D:174:GLY:HA3	9:D:9734:HOH:O	2.09	0.51
5:F:194:LEU:HB2	9:F:9560:HOH:O	2.09	0.51
1:K:111:ALA:HB3	1:K:124:ASN:O	2.10	0.51
1:L:79:ILE:HA	1:L:82:LEU:HD12	1.93	0.51
2:M:195:LEU:O	2:M:199:VAL:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:205:GLU:HA	2:M:209:ARG:NH2	2.25	0.51
2:M:309:TYR:HA	2:M:312:ALA:HB3	1.93	0.51
2:M:331:ARG:HG2	9:M:9957:HOH:O	2.10	0.51
3:N:1262:LEU:HD23	3:N:1352:ILE:HG12	1.92	0.51
3:N:1432:LYS:HG3	3:N:1433:SER:H	1.76	0.51
3:N:701:LEU:O	3:N:747:VAL:HG23	2.10	0.51
3:N:800:LYS:HG2	3:N:829:VAL:CG1	2.37	0.51
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.38	0.51
1:A:145:ASP:HB3	9:A:9570:HOH:O	2.10	0.51
2:C:1021:LEU:HD12	3:D:622:ARG:HH12	1.75	0.51
2:C:694:LEU:CD1	2:C:868:ASP:HB3	2.38	0.51
3:D:1196:THR:HA	9:D:9591:HOH:O	2.10	0.51
3:D:1212:ALA:HB1	9:D:2669:HOH:O	2.10	0.51
3:D:141:ILE:HD13	3:D:450:TYR:N	2.26	0.51
3:D:8:VAL:HG12	3:D:1434:TRP:CH2	2.45	0.51
5:F:305:GLU:HG2	5:F:309:LYS:HE3	1.93	0.51
1:K:119:ASP:HB3	9:K:1333:HOH:O	2.10	0.51
1:K:166:PRO:HA	9:K:2046:HOH:O	2.10	0.51
2:M:266:ARG:H	2:M:288:ARG:NH1	2.09	0.51
2:M:140:ILE:HA	2:M:332:ARG:O	2.11	0.51
2:M:431:HIS:CD2	2:M:433:THR:H	2.29	0.51
2:M:897:LEU:HB3	2:M:899:GLN:HG2	1.93	0.51
2:M:901:TYR:CE2	2:M:917:LEU:HD13	2.46	0.51
2:M:911:GLU:O	2:M:915:LYS:HG2	2.10	0.51
3:N:179:VAL:HG13	9:N:2353:HOH:O	2.10	0.51
3:N:32:ILE:O	5:P:258:ILE:HG23	2.11	0.51
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.37	0.51
4:O:87:LYS:HB2	9:O:2278:HOH:O	2.11	0.51
5:P:260:ILE:HG12	5:P:264:MET:HB2	1.92	0.51
5:P:350:LEU:HD12	5:P:422:LEU:HD13	1.92	0.51
1:A:23:PHE:O	1:A:196:THR:HA	2.10	0.51
1:B:227:ASN:HB2	9:B:9778:HOH:O	2.11	0.51
2:C:121:MET:HA	2:C:127:PHE:CD2	2.45	0.51
2:C:339:LEU:HD13	2:C:391:LEU:HD21	1.93	0.51
2:C:670:GLN:HE22	2:C:699:PHE:HA	1.76	0.51
2:C:70:GLU:HB3	9:C:9688:HOH:O	2.11	0.51
2:C:723:THR:C	2:C:725:ASP:H	2.14	0.51
3:D:1264:GLU:HG2	9:D:2050:HOH:O	2.11	0.51
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.11	0.51
3:D:1388:ARG:HB2	9:D:2873:HOH:O	2.11	0.51
3:D:770:LEU:HD21	3:D:919:PHE:CE1	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:80:VAL:HA	9:D:2231:HOH:O	2.11	0.51
1:K:175:ARG:HD3	9:K:2112:HOH:O	2.10	0.51
1:L:187:GLY:HA2	9:N:2058:HOH:O	2.10	0.51
2:M:368:THR:HG22	9:M:9372:HOH:O	2.11	0.51
2:M:694:LEU:HD23	2:M:697:ARG:HH21	1.75	0.51
2:M:70:GLU:OE1	2:M:97:ARG:HD3	2.10	0.51
4:O:72:ARG:HG3	9:O:1901:HOH:O	2.11	0.51
9:M:9230:HOH:O	5:P:405:LEU:HG	2.11	0.51
1:B:162:ILE:HD12	9:B:9818:HOH:O	2.11	0.50
2:C:118:ILE:H	2:C:118:ILE:CD1	2.23	0.50
2:C:283:ILE:HB	2:C:284:ARG:HD2	1.92	0.50
2:C:332:ARG:HG2	2:C:465:GLY:HA3	1.92	0.50
2:C:470:PRO:HG2	9:C:9634:HOH:O	2.11	0.50
2:C:61:LYS:HG3	9:C:2460:HOH:O	2.10	0.50
2:C:63:GLY:HA3	2:C:103:LYS:CG	2.41	0.50
3:D:1313:VAL:HA	9:D:9855:HOH:O	2.11	0.50
3:D:1376:MET:SD	3:D:1421:LEU:HD13	2.51	0.50
3:D:626:SER:HB3	3:D:748:HIS:ND1	2.27	0.50
3:D:812:ALA:O	3:D:816:HIS:HB2	2.11	0.50
3:D:777:PRO:O	3:D:912:LYS:HE3	2.11	0.50
3:D:953:ASP:HA	9:D:9611:HOH:O	2.10	0.50
4:E:70:THR:HA	9:E:9683:HOH:O	2.11	0.50
5:F:304:VAL:HG12	5:F:308:LEU:HD11	1.91	0.50
1:K:227:ASN:N	1:K:227:ASN:HD22	2.08	0.50
2:M:27:ARG:HG3	2:M:27:ARG:HH11	1.76	0.50
2:M:520:GLU:HG3	9:M:9551:HOH:O	2.11	0.50
2:M:73:LEU:HG	9:M:9263:HOH:O	2.11	0.50
2:M:928:LYS:HG3	2:M:932:GLU:HG3	1.92	0.50
3:N:1307:LYS:HG3	9:N:9927:HOH:O	2.11	0.50
3:N:1312:LEU:HD12	3:N:1326:THR:O	2.12	0.50
3:N:156:GLU:HB3	9:N:9891:HOH:O	2.11	0.50
3:N:601:ARG:NE	3:N:613:ARG:HH21	2.09	0.50
3:N:645:PRO:HA	3:N:721:VAL:O	2.11	0.50
3:N:813:LEU:HD21	9:N:9724:HOH:O	2.09	0.50
3:N:9:ARG:HH11	3:N:9:ARG:HG2	1.74	0.50
3:N:1481:VAL:CG1	4:O:18:ARG:HA	2.36	0.50
4:O:39:VAL:HB	4:O:72:ARG:HD3	1.93	0.50
5:P:128:ARG:HB2	5:P:128:ARG:NH1	2.26	0.50
1:A:152:PRO:HB3	9:C:9586:HOH:O	2.10	0.50
1:A:18:ARG:NH2	1:A:88:ARG:HH21	2.07	0.50
1:A:18:ARG:HH22	1:A:88:ARG:NH2	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:12:THR:OG1	1:B:24:VAL:HB	2.11	0.50
1:B:62:LEU:HD12	1:B:62:LEU:H	1.75	0.50
2:C:1100:GLN:HB3	9:D:9712:HOH:O	2.09	0.50
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.94	0.50
2:C:478:VAL:HA	2:C:506:ASN:O	2.11	0.50
2:C:545:ASN:O	2:C:905:ILE:HD11	2.11	0.50
1:A:198:ARG:HH22	2:C:932:GLU:CD	2.13	0.50
3:D:1346:ARG:HA	3:D:1346:ARG:NE	2.26	0.50
3:D:550:ARG:HG3	3:D:550:ARG:HH11	1.76	0.50
3:D:596:SER:C	3:D:598:ARG:H	2.14	0.50
3:D:827:ILE:O	3:D:837:GLY:HA3	2.11	0.50
3:D:868:TYR:HB2	3:D:873:LEU:HD11	1.94	0.50
4:E:51:LEU:HD13	9:E:9663:HOH:O	2.10	0.50
5:F:271:LEU:HD22	5:F:291:ILE:HD11	1.93	0.50
5:F:93:LEU:HD21	5:F:102:LEU:HD11	1.92	0.50
1:K:23:PHE:O	1:K:196:THR:HA	2.11	0.50
1:L:112:ARG:HG3	9:L:6646:HOH:O	2.11	0.50
1:L:26:GLU:CB	1:L:194:LYS:HG3	2.41	0.50
2:M:182:VAL:HG23	9:M:9649:HOH:O	2.10	0.50
2:M:310:LEU:O	2:M:314:THR:HG23	2.11	0.50
2:M:945:ARG:O	2:M:948:GLU:HG3	2.11	0.50
3:N:1063:GLU:HB3	9:N:2394:HOH:O	2.11	0.50
3:N:1128:VAL:HA	9:N:2136:HOH:O	2.10	0.50
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.93	0.50
3:N:1493:LYS:HD2	9:N:2553:HOH:O	2.11	0.50
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.14	0.50
5:P:140:ARG:HA	9:P:7056:HOH:O	2.10	0.50
1:A:143:ARG:HD3	1:A:158:ILE:HG21	1.93	0.50
1:A:186:LEU:HA	9:A:9786:HOH:O	2.11	0.50
2:C:157:ARG:HH11	2:C:157:ARG:HG3	1.76	0.50
2:C:55:GLU:HG2	9:C:2166:HOH:O	2.11	0.50
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.47	0.50
2:C:799:ILE:O	2:C:801:VAL:HG13	2.11	0.50
2:C:756:VAL:HG21	2:C:823:VAL:CG1	2.41	0.50
2:C:965:GLU:HG3	9:C:2351:HOH:O	2.11	0.50
3:D:1068:LEU:O	3:D:1072:ILE:HG12	2.11	0.50
3:D:1284:GLU:HB3	9:D:9836:HOH:O	2.11	0.50
3:D:1362:LYS:HE3	9:D:9887:HOH:O	2.10	0.50
3:D:416:ALA:H	3:D:417:PRO:CD	2.25	0.50
3:D:58:CYS:SG	3:D:59:ALA:N	2.83	0.50
3:D:838:ARG:CG	3:D:865:THR:HG23	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:566:ILE:HD11	5:F:192:LEU:CD2	2.41	0.50
5:F:94:LEU:HB2	5:F:98:GLU:OE2	2.11	0.50
1:K:171:PHE:O	1:K:172:SER:C	2.50	0.50
1:L:2:LEU:HA	1:L:6:LEU:HD22	1.92	0.50
2:M:1083:GLU:N	9:M:9233:HOH:O	2.43	0.50
2:M:1087:VAL:HG12	2:M:1091:GLU:OE2	2.11	0.50
2:M:195:LEU:HA	9:M:9289:HOH:O	2.12	0.50
2:M:41:ASN:HD22	2:M:41:ASN:H	1.58	0.50
2:M:568:ALA:CB	2:M:668:LEU:HB3	2.40	0.50
2:M:969:GLN:HB3	9:M:9280:HOH:O	2.10	0.50
2:M:952:LEU:CD1	2:M:969:GLN:HE22	2.19	0.50
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.93	0.50
3:N:1476:THR:HG23	4:O:21:VAL:CG2	2.41	0.50
5:P:167:PRO:HB2	5:P:169:GLU:OE1	2.11	0.50
5:P:396:ARG:HA	5:P:399:GLN:HE21	1.76	0.50
2:C:1058:ASP:OD1	2:C:1084:SER:N	2.43	0.50
2:C:108:ILE:HB	9:C:9838:HOH:O	2.12	0.50
2:C:259:GLY:HA2	2:C:290:LEU:O	2.10	0.50
2:C:345:ARG:HD3	9:C:9778:HOH:O	2.10	0.50
2:C:53:PRO:HG3	9:C:9996:HOH:O	2.10	0.50
2:C:725:ASP:O	2:C:727:PRO:HD3	2.11	0.50
2:C:745:ILE:HG12	9:C:9595:HOH:O	2.11	0.50
3:D:1128:VAL:HB	3:D:1131:SER:OG	2.12	0.50
3:D:475:LYS:HD3	3:D:478:LEU:CD1	2.40	0.50
1:L:180:GLN:HG2	9:L:1240:HOH:O	2.10	0.50
2:M:149:THR:HA	9:M:9241:HOH:O	2.11	0.50
2:M:15:LEU:HD22	9:M:9656:HOH:O	2.12	0.50
2:M:31:GLN:HB2	9:M:9742:HOH:O	2.10	0.50
2:M:431:HIS:HD2	2:M:433:THR:H	1.60	0.50
2:M:744:ARG:HA	9:M:9460:HOH:O	2.10	0.50
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.41	0.50
3:N:1127:GLU:HA	9:N:2957:HOH:O	2.10	0.50
3:N:596:SER:C	3:N:598:ARG:H	2.15	0.50
9:M:2444:HOH:O	3:N:744:GLN:HG3	2.12	0.50
2:M:678:PRO:O	3:N:943:THR:HG23	2.12	0.50
5:P:93:LEU:HD12	5:P:191:ASN:HD21	1.76	0.50
1:A:46:SER:HA	9:A:9582:HOH:O	2.11	0.50
1:B:111:ALA:HB3	1:B:124:ASN:O	2.11	0.50
2:C:426:ASP:HA	2:C:429:ASP:OD2	2.12	0.50
2:C:479:VAL:HG22	2:C:506:ASN:O	2.12	0.50
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:132:TYR:CD1	3:D:132:TYR:N	2.79	0.50
3:D:22:SER:HA	3:D:90:MET:O	2.12	0.50
3:D:933:ALA:O	3:D:937:TYR:HD1	1.94	0.50
2:M:28:ARG:HG2	2:M:28:ARG:HH11	1.76	0.50
2:M:202:TYR:CE1	2:M:304:LEU:HD22	2.45	0.50
2:M:428:ARG:HA	2:M:450:GLY:HA3	1.94	0.50
2:M:516:ARG:HB2	9:M:9549:HOH:O	2.11	0.50
2:M:728:HIS:O	2:M:729:LEU:HD22	2.12	0.50
3:N:1121:PRO:HD3	3:N:1346:ARG:HH22	1.76	0.50
3:N:165:LYS:HE2	9:N:9671:HOH:O	2.12	0.50
3:N:17:LYS:HG3	9:N:9504:HOH:O	2.10	0.50
3:N:13:ALA:HB1	3:N:18:ILE:HD11	1.94	0.50
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.42	0.50
3:N:102:ILE:HD13	3:N:586:ARG:HB2	1.94	0.50
5:P:260:ILE:HD11	5:P:264:MET:HB3	1.94	0.50
5:P:367:MET:HB3	9:P:3256:HOH:O	2.10	0.50
5:P:94:LEU:HD12	5:P:97:GLU:HB2	1.93	0.50
1:A:111:ALA:HB3	1:A:124:ASN:O	2.12	0.50
1:A:156:HIS:H	1:A:156:HIS:CD2	2.29	0.50
1:A:41:ARG:NH1	1:A:177:VAL:HB	2.25	0.50
1:A:184:THR:O	1:A:192:LEU:HD12	2.11	0.50
1:B:211:LEU:O	1:B:215:VAL:HG13	2.12	0.50
1:B:60:ASP:HB2	9:B:9588:HOH:O	2.11	0.50
2:C:19:THR:HG21	2:C:124:ASP:O	2.11	0.50
2:C:266:ARG:HG3	2:C:266:ARG:HH11	1.77	0.50
2:C:514:VAL:HG22	9:C:9943:HOH:O	2.11	0.50
2:C:604:ALA:HB3	2:C:612:VAL:O	2.12	0.50
2:C:644:VAL:HB	9:C:2682:HOH:O	2.12	0.50
2:C:669:GLY:O	2:C:670:GLN:HG3	2.12	0.50
2:C:770:GLU:HG2	9:D:9612:HOH:O	2.11	0.50
2:C:958:THR:HB	9:C:9980:HOH:O	2.11	0.50
3:D:1351:GLU:OE1	3:D:1351:GLU:HA	2.11	0.50
3:D:1409:ALA:HB2	9:D:2109:HOH:O	2.11	0.50
3:D:399:ARG:HB3	3:D:402:PRO:HG3	1.92	0.50
3:D:630:VAL:HG12	3:D:631:ILE:N	2.27	0.50
3:D:939:PHE:O	3:D:942:SER:HB3	2.12	0.50
9:D:2101:HOH:O	4:E:48:MET:HG3	2.11	0.50
5:F:209:PHE:HA	5:F:212:LEU:HD12	1.93	0.50
5:F:392:VAL:HG13	9:F:9894:HOH:O	2.10	0.50
1:K:151:VAL:HG22	9:K:3152:HOH:O	2.11	0.50
2:M:264:PRO:HB2	2:M:289:THR:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:478:VAL:HA	2:M:506:ASN:O	2.12	0.50
2:M:456:ALA:HA	2:M:541:SER:HA	1.93	0.50
2:M:564:MET:HA	9:M:9338:HOH:O	2.11	0.50
2:M:769:PRO:HD2	9:M:9815:HOH:O	2.11	0.50
2:M:876:VAL:H	2:M:877:PRO:HD2	1.75	0.50
3:N:1123:PHE:CE1	3:N:1134:LEU:HG	2.46	0.50
3:N:1124:GLN:OE1	3:N:1135:ARG:HA	2.12	0.50
3:N:112:ILE:HD11	3:N:124:GLU:CD	2.32	0.50
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.42	0.50
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.94	0.50
3:N:2:LYS:HG2	3:N:3:LYS:HZ2	1.76	0.50
3:N:637:LEU:HD11	3:N:642:CYS:CA	2.41	0.50
3:N:65:ARG:CD	3:N:66:GLN:H	2.25	0.50
3:N:714:GLN:HE22	3:N:732:VAL:HB	1.77	0.50
3:N:81:THR:HB	3:N:85:VAL:HG21	1.91	0.50
3:N:958:GLU:HB3	9:N:9999:HOH:O	2.10	0.50
1:A:115:LEU:O	1:A:115:LEU:HD12	2.11	0.50
1:A:182:GLU:O	1:A:194:LYS:HB3	2.11	0.50
1:B:195:LEU:HD12	1:B:196:THR:N	2.27	0.50
1:B:90:LEU:HD23	1:B:91:ASN:HD22	1.77	0.50
2:C:607:ASP:C	2:C:609:ASN:H	2.15	0.50
3:D:1319:VAL:HA	3:D:1323:GLN:OE1	2.12	0.50
3:D:969:ARG:HA	9:D:2563:HOH:O	2.11	0.50
5:F:340:SER:O	5:F:342:VAL:N	2.45	0.50
2:M:792:VAL:N	9:M:9305:HOH:O	2.44	0.50
2:M:875:GLY:O	2:M:879:ARG:HD3	2.12	0.50
3:N:1103:HIS:HD2	3:N:1462:LEU:H	1.58	0.50
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.77	0.50
3:N:1335:LEU:HD11	9:N:2029:HOH:O	2.11	0.50
3:N:1349:VAL:HG22	3:N:1372:VAL:HG21	1.94	0.50
3:N:1404:ASN:ND2	3:N:1408:ILE:HD12	2.27	0.50
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.93	0.50
3:N:73:CYS:HB3	3:N:76:CYS:O	2.11	0.50
3:N:827:ILE:HG23	9:N:9636:HOH:O	2.12	0.50
2:C:289:THR:O	2:C:291:ALA:N	2.44	0.50
2:C:759:THR:HG21	2:C:783:ARG:CZ	2.42	0.50
3:D:115:LEU:CD1	3:D:499:VAL:HG22	2.42	0.50
3:D:563:PRO:HB3	9:F:9576:HOH:O	2.11	0.50
3:D:676:MET:HG3	9:D:9957:HOH:O	2.11	0.50
3:D:894:LYS:HA	9:D:2557:HOH:O	2.11	0.50
1:K:5:LYS:HZ1	1:L:224:TYR:HE1	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:36:LEU:O	1:L:39:PRO:HD2	2.12	0.50
2:M:110:GLU:HB3	9:M:9372:HOH:O	2.12	0.50
2:M:139:GLN:HB3	2:M:334:ARG:HB2	1.93	0.50
2:M:476:GLY:C	2:M:478:VAL:H	2.16	0.50
2:M:649:VAL:HA	2:M:650:ARG:HH21	1.77	0.50
3:N:956:ILE:HG12	3:N:1039:CYS:O	2.11	0.50
3:N:1124:GLN:HB2	9:N:9329:HOH:O	2.12	0.50
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.47	0.50
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.93	0.50
3:N:521:PRO:O	3:N:525:ARG:HG2	2.12	0.50
3:N:844:ALA:O	3:N:867:ARG:HB3	2.11	0.50
5:P:147:LEU:H	5:P:147:LEU:HD12	1.77	0.50
5:P:278:LEU:HB3	5:P:286:PRO:CG	2.27	0.50
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.93	0.50
2:C:260:LEU:HA	2:C:291:ALA:CB	2.41	0.50
2:C:45:GLN:HB2	2:C:71:TYR:CE2	2.47	0.50
2:C:747:ALA:O	2:C:800:VAL:HG23	2.12	0.50
3:D:1101:VAL:HG21	3:D:1424:VAL:HG13	1.93	0.50
3:D:1362:LYS:HG3	9:D:2173:HOH:O	2.12	0.50
3:D:6:ARG:HB3	3:D:6:ARG:CZ	2.42	0.50
3:D:959:GLU:HG3	3:D:1006:ALA:HB1	1.93	0.50
5:F:372:ARG:HB3	9:F:2056:HOH:O	2.12	0.50
1:K:7:LYS:NZ	1:K:27:PRO:HG2	2.27	0.50
2:M:304:LEU:HB2	9:M:9883:HOH:O	2.11	0.50
2:M:390:GLN:HA	9:P:4407:HOH:O	2.10	0.50
2:M:139:GLN:OE1	2:M:415:PRO:HD2	2.12	0.50
2:M:64:LEU:HD13	9:M:9296:HOH:O	2.12	0.50
3:N:129:PHE:O	3:N:572:ARG:HG3	2.11	0.50
3:N:519:VAL:HG13	3:N:544:TYR:CE1	2.47	0.50
3:N:599:PRO:HD2	9:N:9833:HOH:O	2.12	0.50
3:N:681:ARG:HB2	3:N:681:ARG:HH11	1.77	0.50
3:N:813:LEU:HD23	9:N:9996:HOH:O	2.10	0.50
5:P:215:GLU:O	5:P:218:GLN:HB3	2.11	0.50
5:P:261:PRO:HD3	9:P:8018:HOH:O	2.12	0.50
1:A:153:ALA:HA	1:A:156:HIS:CD2	2.47	0.49
1:B:189:ARG:HD2	9:B:9618:HOH:O	2.11	0.49
2:C:1059:ASP:HB2	9:C:9720:HOH:O	2.12	0.49
2:C:295:ASP:C	2:C:297:GLU:H	2.15	0.49
2:C:479:VAL:HG21	2:C:503:LEU:HD21	1.93	0.49
2:C:769:PRO:HA	9:C:9981:HOH:O	2.12	0.49
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:166:GLN:HB3	3:D:395:VAL:HG21	1.94	0.49
3:D:497:GLU:HB2	9:D:2123:HOH:O	2.11	0.49
3:D:67:ARG:HE	3:D:67:ARG:HA	1.76	0.49
3:D:864:VAL:HA	9:D:9613:HOH:O	2.11	0.49
5:F:158:GLU:HA	5:F:161:GLN:NE2	2.27	0.49
5:F:277:GLN:HA	9:F:9672:HOH:O	2.11	0.49
1:L:111:ALA:HB3	1:L:124:ASN:O	2.12	0.49
2:M:164:PRO:HD2	2:M:170:PRO:O	2.12	0.49
2:M:48:PHE:HA	9:M:9688:HOH:O	2.11	0.49
3:N:1079:LYS:HG3	3:N:1080:GLY:N	2.26	0.49
3:N:1378:TYR:OH	3:N:1431:THR:HA	2.12	0.49
3:N:3:LYS:HA	9:N:2915:HOH:O	2.12	0.49
3:N:502:PHE:CD1	3:N:509:PRO:HB3	2.47	0.49
3:N:543:LEU:HD22	3:N:580:ALA:HB1	1.93	0.49
4:O:45:ARG:HB3	4:O:46:PRO:HD2	1.92	0.49
5:P:119:ILE:HG12	9:P:2011:HOH:O	2.11	0.49
5:P:321:ILE:HD11	5:P:329:TYR:CB	2.39	0.49
5:P:393:THR:O	5:P:397:ILE:HG13	2.11	0.49
5:P:422:LEU:H	5:P:422:LEU:HD12	1.77	0.49
2:C:148:PHE:CE1	2:C:281:LEU:HD22	2.47	0.49
2:C:350:ARG:HB3	9:C:2086:HOH:O	2.12	0.49
2:C:674:VAL:HG12	2:C:990:GLY:O	2.12	0.49
2:C:786:LYS:HG3	9:C:2781:HOH:O	2.11	0.49
2:C:86:LYS:CG	2:C:813:VAL:HG12	2.39	0.49
3:D:1274:ILE:O	3:D:1274:ILE:HD12	2.13	0.49
3:D:1263:PHE:HA	3:D:1375:MET:HE2	1.93	0.49
3:D:169:TYR:N	3:D:170:PRO:HD3	2.27	0.49
3:D:217:LYS:HA	9:D:9649:HOH:O	2.13	0.49
3:D:405:ASP:OD1	3:D:407:VAL:HG23	2.13	0.49
3:D:127:LEU:HD12	3:D:457:GLY:H	1.77	0.49
3:D:474:GLU:O	3:D:478:LEU:HG	2.12	0.49
3:D:629:SER:HA	9:D:2061:HOH:O	2.12	0.49
4:E:41:GLU:CA	4:E:45:ARG:HG3	2.42	0.49
5:F:273:ARG:HD3	9:F:9638:HOH:O	2.12	0.49
1:L:145:ASP:HB3	9:L:7895:HOH:O	2.12	0.49
1:L:161:ARG:HB3	9:L:4752:HOH:O	2.12	0.49
2:M:346:VAL:HG12	2:M:350:ARG:HE	1.77	0.49
2:M:606:VAL:HG21	2:M:645:VAL:HG22	1.95	0.49
3:N:1189:ARG:HB3	3:N:1189:ARG:CZ	2.43	0.49
3:N:180:LYS:HG3	9:N:9302:HOH:O	2.11	0.49
3:N:455:ARG:HH22	5:P:140:ARG:CB	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:507:ASN:HB2	9:N:9257:HOH:O	2.12	0.49
3:N:87:ARG:HG3	3:N:524:LEU:HG	1.93	0.49
3:N:65:ARG:HB2	5:P:375:LEU:O	2.12	0.49
3:N:966:GLU:O	3:N:969:ARG:HG2	2.11	0.49
4:O:40:LEU:HD11	4:O:67:GLU:HG2	1.94	0.49
2:C:194:VAL:HG21	2:C:221:LEU:O	2.12	0.49
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.94	0.49
3:D:147:VAL:HA	9:D:9668:HOH:O	2.11	0.49
3:D:172:PRO:HB3	3:D:178:LEU:CB	2.42	0.49
4:E:24:ALA:O	4:E:28:GLN:HG3	2.12	0.49
5:F:125:ASP:HA	9:F:9581:HOH:O	2.12	0.49
5:F:160:ASP:HA	5:F:163:LEU:CD1	2.34	0.49
1:K:229:GLN:HB2	9:K:5388:HOH:O	2.10	0.49
1:K:62:LEU:HD22	2:M:745:ILE:HB	1.94	0.49
1:L:114:PHE:HB3	9:L:6216:HOH:O	2.11	0.49
1:L:54:THR:HG21	1:L:143:ARG:NH2	2.26	0.49
1:L:76:VAL:HG23	9:L:2024:HOH:O	2.12	0.49
2:M:246:ASP:HB3	9:M:9919:HOH:O	2.12	0.49
2:M:259:GLY:HA2	2:M:290:LEU:O	2.12	0.49
3:N:389:GLU:HG2	9:N:9256:HOH:O	2.11	0.49
3:N:704:ARG:HH12	3:N:743:ASP:CB	2.26	0.49
4:O:47:LYS:CA	4:O:54:LEU:HB3	2.42	0.49
5:P:172:ARG:O	5:P:176:ILE:HG13	2.11	0.49
5:P:278:LEU:HD13	5:P:290:GLU:HB3	1.95	0.49
5:P:373:LYS:HD3	5:P:378:GLY:C	2.32	0.49
5:P:357:ALA:HB1	5:P:408:LEU:HD11	1.94	0.49
1:A:30:ARG:HH22	1:B:155:LYS:HZ2	1.60	0.49
2:C:266:ARG:HB2	2:C:288:ARG:NE	2.27	0.49
2:C:394:PHE:HB3	9:C:9833:HOH:O	2.12	0.49
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.41	0.49
2:C:590:ASP:HA	9:C:9671:HOH:O	2.11	0.49
2:C:769:PRO:HB2	9:D:9612:HOH:O	2.12	0.49
2:C:727:PRO:HG2	2:C:785:VAL:HG12	1.93	0.49
2:C:919:ALA:HB2	9:C:9756:HOH:O	2.12	0.49
3:D:1274:ILE:HB	3:D:1322:GLY:HA2	1.94	0.49
3:D:1366:LYS:HA	3:D:1369:GLU:OE1	2.11	0.49
3:D:795:VAL:CG1	3:D:863:VAL:HG22	2.42	0.49
1:L:163:ASN:HA	9:L:5364:HOH:O	2.12	0.49
2:M:193:LEU:O	2:M:193:LEU:HD13	2.13	0.49
2:M:42:VAL:HG22	2:M:268:ASP:OD2	2.13	0.49
2:M:452:ILE:HG12	9:M:9712:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:958:THR:HG23	2:M:961:GLU:HG3	1.93	0.49
2:M:9:ILE:CD1	2:M:536:PRO:HD3	2.43	0.49
3:N:1092:GLY:O	3:N:1096:ARG:N	2.45	0.49
3:N:1110:ALA:HB1	9:N:9774:HOH:O	2.11	0.49
3:N:165:LYS:HB2	3:N:395:VAL:HG11	1.93	0.49
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.39	0.49
1:A:184:THR:HG22	1:A:192:LEU:O	2.12	0.49
2:C:627:ARG:HE	2:C:627:ARG:N	1.89	0.49
3:D:1396:GLU:HA	3:D:1399:ASP:OD2	2.13	0.49
3:D:177:ALA:HA	3:D:199:LEU:HD13	1.94	0.49
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.42	0.49
3:D:868:TYR:H	3:D:873:LEU:HD11	1.77	0.49
3:D:902:LEU:HD23	3:D:902:LEU:H	1.78	0.49
3:D:935:LYS:HZ3	3:D:936:TYR:N	2.10	0.49
5:F:299:TRP:HD1	9:F:9664:HOH:O	1.95	0.49
1:K:91:ASN:O	1:K:94:LEU:HD12	2.13	0.49
1:L:109:VAL:HG23	1:L:132:LEU:HD13	1.94	0.49
2:M:98:LEU:O	2:M:109:LYS:HG3	2.13	0.49
2:M:313:LEU:HD12	9:M:2079:HOH:O	2.11	0.49
2:M:720:GLU:HB3	9:M:9349:HOH:O	2.11	0.49
3:N:112:ILE:HD11	3:N:124:GLU:HG2	1.93	0.49
3:N:9:ARG:HA	3:N:1455:LYS:O	2.12	0.49
3:N:131:LYS:HB2	3:N:456:MET:HE2	1.94	0.49
3:N:581:LEU:HD12	3:N:582:LEU:N	2.27	0.49
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.95	0.49
2:C:1115:LEU:HD23	3:D:85:VAL:CG1	2.40	0.49
2:C:28:ARG:HA	9:C:2297:HOH:O	2.12	0.49
2:C:327:HIS:HB3	2:C:330:ASN:ND2	2.28	0.49
2:C:40:GLU:HG2	9:C:2473:HOH:O	2.13	0.49
2:C:602:GLU:HB3	9:C:9979:HOH:O	2.12	0.49
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.47	0.49
3:D:1303:TYR:HA	9:D:2028:HOH:O	2.13	0.49
3:D:1379:VAL:N	9:D:2424:HOH:O	2.44	0.49
3:D:1499:ARG:HA	9:D:2938:HOH:O	2.11	0.49
3:D:181:ASP:O	3:D:185:VAL:HG23	2.13	0.49
3:D:413:ASP:HA	9:D:2284:HOH:O	2.12	0.49
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.94	0.49
3:D:486:ARG:O	3:D:489:ARG:HG2	2.12	0.49
5:F:167:PRO:HB2	5:F:169:GLU:OE1	2.13	0.49
1:K:206:THR:CG2	1:K:209:GLU:H	2.24	0.49
1:L:45:LEU:HD21	1:L:177:VAL:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:332:ARG:HG2	2:M:333:ILE:N	2.27	0.49
2:M:644:VAL:HB	9:M:9422:HOH:O	2.12	0.49
2:M:777:ILE:HG22	2:M:778:PHE:HD1	1.76	0.49
2:M:897:LEU:HB3	2:M:899:GLN:NE2	2.28	0.49
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.42	0.49
3:N:135:LEU:HD13	3:N:147:VAL:HG12	1.94	0.49
3:N:401:TYR:N	3:N:402:PRO:HD3	2.28	0.49
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.94	0.49
1:B:162:ILE:HB	9:B:9818:HOH:O	2.11	0.49
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.94	0.49
2:C:551:GLU:HG3	2:C:552:HIS:CD2	2.47	0.49
2:C:744:ARG:HA	9:C:9595:HOH:O	2.13	0.49
3:D:1159:ARG:HH11	3:D:1159:ARG:HG3	1.76	0.49
2:C:1035:MET:HB3	3:D:707:THR:HB	1.94	0.49
3:D:710:ARG:NH1	3:D:710:ARG:HG2	2.25	0.49
5:F:169:GLU:HA	9:F:9835:HOH:O	2.11	0.49
5:F:266:GLU:HA	5:F:269:ASN:ND2	2.24	0.49
1:K:184:THR:O	1:K:192:LEU:HB2	2.12	0.49
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.48	0.49
1:L:41:ARG:HG3	1:L:177:VAL:HB	1.94	0.49
2:M:101:ILE:HG22	2:M:102:HIS:N	2.26	0.49
2:M:1028:GLY:HA2	9:M:9259:HOH:O	2.12	0.49
2:M:583:LEU:O	2:M:587:VAL:HG23	2.13	0.49
2:M:82:GLU:HG3	9:M:9567:HOH:O	2.13	0.49
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.12	0.49
3:N:153:LEU:HD22	9:N:2799:HOH:O	2.11	0.49
3:N:26:VAL:N	9:N:9259:HOH:O	2.44	0.49
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.94	0.49
1:A:26:GLU:HB3	1:A:194:LYS:HG3	1.95	0.49
2:C:1102:LEU:HD11	9:D:9712:HOH:O	2.13	0.49
2:C:689:VAL:HG21	2:C:870:ILE:HB	1.93	0.49
3:D:1023:MET:O	3:D:1028:ALA:HB3	2.12	0.49
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.43	0.49
3:D:1310:ARG:HB3	9:D:9775:HOH:O	2.13	0.49
3:D:179:VAL:CG2	3:D:389:GLU:HG3	2.42	0.49
4:E:25:LYS:O	4:E:28:GLN:HB2	2.13	0.49
5:F:350:LEU:O	5:F:354:LEU:HG	2.13	0.49
5:F:395:GLU:O	5:F:399:GLN:HB2	2.12	0.49
1:K:11:PHE:HB2	9:K:3188:HOH:O	2.12	0.49
1:L:101:LEU:HA	9:L:1474:HOH:O	2.13	0.49
2:M:222:MET:HG3	9:M:2024:HOH:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:269:LEU:HD22	2:M:288:ARG:HB2	1.94	0.49
2:M:545:ASN:HB3	2:M:583:LEU:HD12	1.95	0.49
2:M:776:SER:HA	2:M:780:GLU:CB	2.41	0.49
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.13	0.49
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.39	0.49
3:N:1448:THR:O	3:N:1451:ALA:HB3	2.13	0.49
3:N:412:GLY:O	3:N:421:LEU:HB3	2.12	0.49
3:N:657:LEU:HD22	3:N:691:LEU:HD13	1.93	0.49
3:N:947:ILE:HD12	3:N:947:ILE:O	2.12	0.49
3:N:968:ASP:O	3:N:971:LEU:HB3	2.12	0.49
4:O:25:LYS:O	4:O:28:GLN:HB2	2.13	0.49
5:P:277:GLN:HG2	9:P:1413:HOH:O	2.12	0.49
5:P:320:PRO:HB3	9:P:5311:HOH:O	2.12	0.49
9:N:2509:HOH:O	5:P:94:LEU:HD21	2.13	0.49
1:B:184:THR:HG22	1:B:192:LEU:O	2.11	0.49
1:B:195:LEU:HD12	1:B:196:THR:H	1.76	0.49
2:C:142:ARG:HG3	9:C:2425:HOH:O	2.11	0.49
2:C:27:ARG:HG3	2:C:27:ARG:HH11	1.77	0.49
2:C:446:GLY:HA3	9:C:9687:HOH:O	2.12	0.49
2:C:564:MET:HG2	2:C:840:ALA:HB3	1.95	0.49
3:D:1012:GLU:HB3	9:D:9868:HOH:O	2.13	0.49
3:D:1047:LYS:HG2	3:D:1053:PHE:CE1	2.47	0.49
3:D:116:LEU:O	3:D:118:LEU:N	2.45	0.49
2:C:1073:GLY:HA3	3:D:659:LYS:NZ	2.28	0.49
3:D:89:ARG:O	3:D:521:PRO:HG3	2.13	0.49
5:F:162:LYS:HE3	9:F:9869:HOH:O	2.13	0.49
1:K:182:GLU:O	1:K:194:LYS:HB3	2.12	0.49
1:L:132:LEU:HG	9:L:2881:HOH:O	2.12	0.49
2:M:42:VAL:HA	2:M:46:ALA:HB2	1.95	0.49
2:M:472:ARG:HE	2:M:532:MET:HE2	1.77	0.49
2:M:956:GLY:HA2	9:M:2324:HOH:O	2.12	0.49
3:N:1330:ILE:HG12	9:N:9950:HOH:O	2.13	0.49
3:N:1442:ASN:HD22	3:N:1442:ASN:H	1.60	0.49
3:N:168:THR:OG1	3:N:393:ILE:HB	2.11	0.49
4:O:63:TRP:O	4:O:67:GLU:HG3	2.13	0.49
5:P:168:LYS:HG3	9:P:3066:HOH:O	2.12	0.49
5:P:76:SER:O	5:P:80:PRO:HD2	2.12	0.49
1:A:45:LEU:HD21	1:A:177:VAL:HG23	1.93	0.49
1:A:94:LEU:HD21	1:A:119:ASP:HB2	1.94	0.49
1:B:48:ILE:HG23	9:B:9710:HOH:O	2.12	0.49
2:C:144:PRO:C	2:C:276:LYS:HZ2	2.16	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:595:LEU:CD1	2:C:639:GLN:HG2	2.43	0.49
2:C:84:ARG:HH11	2:C:84:ARG:HG3	1.77	0.49
3:D:1247:ALA:HB1	9:D:2742:HOH:O	2.13	0.49
3:D:1348:LEU:O	3:D:1352:ILE:HG13	2.13	0.49
3:D:1465:ASN:OD1	3:D:1470:ARG:HB3	2.12	0.49
3:D:186:VAL:HG11	3:D:213:VAL:HB	1.94	0.49
3:D:661:MET:CE	3:D:673:ALA:HB1	2.42	0.49
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.95	0.49
4:E:30:LEU:O	4:E:35:PHE:HA	2.12	0.49
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.94	0.49
5:F:419:ARG:HH11	5:F:419:ARG:HG2	1.76	0.49
1:L:62:LEU:H	1:L:62:LEU:HD12	1.78	0.49
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.95	0.49
2:M:288:ARG:HB3	9:M:9500:HOH:O	2.12	0.49
2:M:657:ASP:HB3	2:M:661:SER:OG	2.13	0.49
2:M:696:LYS:HA	9:M:9665:HOH:O	2.12	0.49
2:M:841:ASN:OD1	2:M:843:HIS:HB2	2.13	0.49
3:N:1282:ARG:HG2	9:N:9906:HOH:O	2.12	0.49
3:N:1287:GLU:HA	9:N:9764:HOH:O	2.12	0.49
3:N:141:ILE:H	3:N:141:ILE:CD1	2.24	0.49
3:N:1437:ALA:HB2	9:N:9283:HOH:O	2.11	0.49
3:N:413:ASP:OD2	3:N:419:ASP:HA	2.13	0.49
5:P:198:ILE:HG12	5:P:244:ARG:HH12	1.78	0.49
5:P:375:LEU:HG	9:P:3218:HOH:O	2.13	0.49
5:P:77:THR:O	5:P:80:PRO:HG2	2.13	0.49
1:A:34:VAL:HA	9:A:9604:HOH:O	2.12	0.48
1:B:162:ILE:HG13	9:B:9680:HOH:O	2.13	0.48
2:C:216:GLU:H	2:C:216:GLU:CD	2.16	0.48
3:D:1148:VAL:HG11	3:D:1203:LYS:HD2	1.95	0.48
3:D:1304:LYS:N	3:D:1304:LYS:HD3	2.16	0.48
3:D:1336:LEU:HD13	3:D:1376:MET:HE1	1.95	0.48
3:D:145:VAL:HG21	9:D:9785:HOH:O	2.13	0.48
3:D:729:HIS:ND1	3:D:730:PRO:N	2.61	0.48
1:K:186:LEU:HB2	1:K:192:LEU:CD1	2.43	0.48
2:M:144:PRO:HA	2:M:163:ILE:O	2.13	0.48
2:M:254:VAL:HG12	9:M:2026:HOH:O	2.12	0.48
2:M:100:LEU:HG	2:M:368:THR:HG23	1.94	0.48
2:M:534:VAL:H	2:M:538:GLN:NE2	2.11	0.48
2:M:570:PRO:HB3	2:M:660:ALA:HB2	1.94	0.48
2:M:575:GLN:HG2	2:M:671:ASN:ND2	2.27	0.48
3:N:1282:ARG:HB2	3:N:1293:PHE:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1120:VAL:HA	3:N:1346:ARG:HH22	1.78	0.48
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.47	0.48
9:N:9359:HOH:O	4:O:50:THR:HG21	2.12	0.48
1:B:159:LYS:HE3	9:B:9720:HOH:O	2.14	0.48
1:B:23:PHE:O	1:B:196:THR:HA	2.12	0.48
2:C:164:PRO:HD2	2:C:170:PRO:O	2.13	0.48
2:C:266:ARG:O	2:C:288:ARG:HD3	2.13	0.48
2:C:428:ARG:HA	2:C:450:GLY:HA3	1.94	0.48
2:C:574:ALA:O	2:C:575:GLN:HB2	2.12	0.48
2:C:877:PRO:HB3	3:D:1020:LEU:CD1	2.43	0.48
3:D:169:TYR:CG	3:D:169:TYR:O	2.67	0.48
3:D:235:ALA:HB1	9:D:9573:HOH:O	2.13	0.48
3:D:873:LEU:HA	9:D:2884:HOH:O	2.12	0.48
4:E:8:LYS:HD3	9:E:9637:HOH:O	2.13	0.48
5:F:139:ALA:HB1	5:F:152:ASP:HB3	1.94	0.48
5:F:115:LYS:HD3	5:F:173:TYR:CE2	2.48	0.48
1:L:119:ASP:HB3	9:L:1485:HOH:O	2.12	0.48
1:L:229:GLN:HG2	9:L:6318:HOH:O	2.13	0.48
2:M:269:LEU:HB3	9:M:9569:HOH:O	2.13	0.48
2:M:446:GLY:O	2:M:449:ILE:HG13	2.12	0.48
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.48	0.48
2:M:736:ASP:HA	2:M:744:ARG:NH1	2.28	0.48
3:N:1049:SER:OG	3:N:1051:GLU:HG2	2.14	0.48
3:N:493:ARG:NH2	3:N:1389:LEU:HD11	2.28	0.48
3:N:422:ALA:H	3:N:427:VAL:HG11	1.77	0.48
3:N:704:ARG:HH12	3:N:743:ASP:CG	2.16	0.48
3:N:863:VAL:HG12	9:N:9938:HOH:O	2.12	0.48
3:N:983:LEU:HA	3:N:987:GLU:OE2	2.12	0.48
5:P:185:GLN:O	5:P:189:GLU:HG3	2.13	0.48
2:C:42:VAL:HG12	2:C:43:GLY:N	2.24	0.48
2:C:722:ILE:HG22	9:C:2273:HOH:O	2.13	0.48
3:D:618:LEU:HD21	9:D:2041:HOH:O	2.14	0.48
3:D:649:ALA:CB	3:D:691:LEU:HD21	2.43	0.48
3:D:754:PHE:O	3:D:757:ALA:HB3	2.13	0.48
3:D:786:ILE:HD13	3:D:1027:GLY:HA3	1.94	0.48
2:C:114:PHE:CE2	5:F:283:GLY:HA3	2.48	0.48
5:F:300:ASP:HB2	9:F:9768:HOH:O	2.13	0.48
9:C:2198:HOH:O	5:F:350:LEU:HD21	2.12	0.48
5:F:371:LEU:HA	5:F:375:LEU:HB2	1.95	0.48
1:K:65:PHE:HE1	2:M:799:ILE:HD11	1.78	0.48
2:M:1065:ALA:HB1	2:M:1077:PRO:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:189:ARG:HH21	2:M:243:ARG:CZ	2.26	0.48
2:M:261:ILE:CG2	2:M:262:ALA:H	2.26	0.48
2:M:343:GLN:HB2	9:M:2031:HOH:O	2.13	0.48
2:M:549:PHE:HB3	2:M:552:HIS:CD2	2.48	0.48
2:M:631:SER:HG	2:M:635:THR:N	2.11	0.48
3:N:959:GLU:HG3	3:N:1006:ALA:HB1	1.95	0.48
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.42	0.48
3:N:1087:ARG:HE	3:N:1238:MET:HB2	1.77	0.48
3:N:1276:GLU:HG3	3:N:1303:TYR:OH	2.13	0.48
3:N:55:ASP:HA	3:N:82:LYS:HG2	1.94	0.48
3:N:869:MET:HA	9:N:2163:HOH:O	2.14	0.48
1:B:1:MET:O	1:B:6:LEU:HD22	2.13	0.48
2:C:328:LEU:HB2	2:C:433:THR:HG21	1.95	0.48
2:C:572:ILE:HD11	2:C:698:ASP:HB3	1.94	0.48
2:C:807:ARG:HD2	9:C:2355:HOH:O	2.12	0.48
3:D:1058:ARG:HG3	3:D:1058:ARG:NH1	2.28	0.48
3:D:1117:TYR:HB3	9:D:9720:HOH:O	2.12	0.48
3:D:1463:LYS:HG2	9:D:2672:HOH:O	2.12	0.48
3:D:1462:LEU:O	3:D:1466:VAL:HG23	2.13	0.48
3:D:2:LYS:HB3	9:D:9972:HOH:O	2.12	0.48
3:D:882:PHE:HA	3:D:885:ILE:HD12	1.95	0.48
4:E:23:VAL:HG23	4:E:64:ALA:HB3	1.94	0.48
5:F:169:GLU:CD	5:F:169:GLU:H	2.15	0.48
2:M:226:VAL:HG13	2:M:227:PHE:CD2	2.48	0.48
2:M:52:PHE:HE1	2:M:98:LEU:HD21	1.78	0.48
2:M:48:PHE:CD2	2:M:52:PHE:HE2	2.31	0.48
2:M:722:ILE:HG21	2:M:821:GLU:OE2	2.13	0.48
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.48	0.48
3:N:1058:ARG:HG2	9:N:9994:HOH:O	2.12	0.48
3:N:1382:THR:HA	9:N:9517:HOH:O	2.12	0.48
3:N:416:ALA:H	3:N:417:PRO:CD	2.26	0.48
3:N:557:LEU:HD11	9:P:1239:HOH:O	2.13	0.48
2:M:753:ASP:HA	3:N:679:ARG:HD2	1.95	0.48
3:N:829:VAL:HB	9:N:9280:HOH:O	2.12	0.48
4:O:50:THR:HG23	9:O:1048:HOH:O	2.13	0.48
5:P:155:THR:O	5:P:159:ILE:HG13	2.14	0.48
5:P:288:TYR:H	5:P:288:TYR:HD1	1.60	0.48
2:C:204:GLN:HA	9:C:9805:HOH:O	2.12	0.48
2:C:803:THR:HG22	2:C:825:VAL:HG22	1.95	0.48
3:D:1413:THR:HA	9:D:9958:HOH:O	2.12	0.48
3:D:984:THR:HG22	3:D:987:GLU:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:14:ASP:HA	9:E:9592:HOH:O	2.13	0.48
5:F:271:LEU:HD21	5:F:299:TRP:CZ3	2.48	0.48
1:K:227:ASN:ND2	1:K:227:ASN:H	2.12	0.48
2:M:149:THR:HG22	9:M:9475:HOH:O	2.12	0.48
2:M:165:LEU:HD22	9:M:9925:HOH:O	2.13	0.48
2:M:381:ALA:HB1	9:M:9341:HOH:O	2.12	0.48
2:M:455:LEU:HD22	2:M:459:ALA:CB	2.44	0.48
2:M:551:GLU:H	2:M:551:GLU:CD	2.16	0.48
2:M:597:ALA:HA	9:M:9794:HOH:O	2.13	0.48
2:M:643:VAL:HG23	9:M:9275:HOH:O	2.12	0.48
3:N:1147:ARG:HD2	3:N:1188:VAL:HG21	1.95	0.48
3:N:1440:PHE:O	3:N:1443:THR:HG23	2.13	0.48
3:N:200:ASP:HA	9:N:2149:HOH:O	2.13	0.48
3:N:561:GLY:HA3	9:N:9263:HOH:O	2.13	0.48
3:N:860:LEU:HB2	3:N:861:GLN:HE22	1.77	0.48
4:O:45:ARG:HA	9:O:6351:HOH:O	2.13	0.48
5:P:147:LEU:HD13	9:P:1942:HOH:O	2.13	0.48
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.43	0.48
3:N:64:LYS:HZ3	5:P:377:ASP:HA	1.78	0.48
5:P:94:LEU:HB3	5:P:98:GLU:HB2	1.95	0.48
2:C:683:ASN:OD1	2:C:872:ASN:HB2	2.14	0.48
3:D:1038:LEU:HA	3:D:1061:PHE:HB2	1.95	0.48
3:D:1188:VAL:HG11	9:D:9650:HOH:O	2.14	0.48
3:D:1314:LYS:H	3:D:1314:LYS:HD3	1.77	0.48
3:D:1354:LYS:HA	9:D:2684:HOH:O	2.13	0.48
3:D:1435:LEU:HG	3:D:1467:ILE:HD12	1.95	0.48
3:D:149:LYS:HB3	9:D:2253:HOH:O	2.13	0.48
3:D:177:ALA:C	3:D:199:LEU:HD13	2.32	0.48
3:D:218:LYS:N	9:D:9726:HOH:O	2.45	0.48
3:D:396:VAL:HG13	3:D:447:VAL:HA	1.96	0.48
3:D:500:ARG:NH2	3:D:1388:ARG:NE	2.57	0.48
3:D:845:ASN:O	3:D:848:GLU:HB2	2.14	0.48
1:L:6:LEU:C	1:L:8:ALA:H	2.17	0.48
2:M:1067:TYR:HE1	3:N:655:PRO:HG3	1.77	0.48
2:M:142:ARG:HB2	2:M:163:ILE:HD13	1.95	0.48
2:M:490:GLU:O	2:M:493:ARG:HB2	2.14	0.48
2:M:978:ARG:HH11	2:M:978:ARG:HG3	1.79	0.48
3:N:1047:LYS:HD2	3:N:1051:GLU:HG3	1.95	0.48
3:N:2:LYS:HG2	3:N:3:LYS:NZ	2.28	0.48
3:N:500:ARG:HH11	3:N:500:ARG:HG3	1.78	0.48
3:N:861:GLN:N	3:N:861:GLN:CD	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:962:GLN:O	3:N:966:GLU:HG3	2.14	0.48
3:N:549:ASN:ND2	5:P:254:GLN:NE2	2.62	0.48
5:P:96:LEU:HD12	9:P:1515:HOH:O	2.12	0.48
1:A:143:ARG:CD	1:A:158:ILE:HG21	2.44	0.48
1:B:36:LEU:O	1:B:39:PRO:HD2	2.13	0.48
2:C:12:VAL:HA	9:C:2815:HOH:O	2.14	0.48
2:C:244:PRO:HG2	2:C:246:ASP:OD1	2.13	0.48
2:C:341:THR:HG21	9:C:9696:HOH:O	2.13	0.48
2:C:404:LEU:HD12	2:C:407:LYS:HE2	1.95	0.48
1:A:65:PHE:CZ	2:C:830:LYS:HG3	2.49	0.48
2:C:87:ASP:HB2	9:C:9712:HOH:O	2.13	0.48
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.49	0.48
3:D:1114:THR:CG2	3:D:1195:GLN:HB2	2.44	0.48
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.96	0.48
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.44	0.48
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.39	0.48
3:D:699:VAL:H	3:D:756:GLN:HE22	1.62	0.48
3:D:800:LYS:HE2	3:D:830:ALA:CB	2.43	0.48
3:D:830:ALA:HB1	9:D:2375:HOH:O	2.14	0.48
3:D:864:VAL:HG12	3:D:865:THR:N	2.28	0.48
4:E:40:LEU:O	4:E:40:LEU:HD12	2.13	0.48
5:F:236:SER:HA	9:F:9646:HOH:O	2.14	0.48
1:L:107:LYS:HB2	9:L:1363:HOH:O	2.14	0.48
1:L:182:GLU:HB2	9:L:8791:HOH:O	2.14	0.48
2:M:295:ASP:C	2:M:297:GLU:H	2.16	0.48
2:M:300:ASP:OD2	2:M:303:PHE:HB2	2.13	0.48
2:M:333:ILE:HG22	2:M:465:GLY:HA2	1.95	0.48
2:M:334:ARG:HB3	9:M:9771:HOH:O	2.12	0.48
2:M:712:ALA:HB3	2:M:821:GLU:HG3	1.95	0.48
2:M:69:LEU:HB2	2:M:97:ARG:CB	2.44	0.48
3:N:1243:THR:O	3:N:1269:LYS:HG3	2.12	0.48
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.14	0.48
3:N:1425:THR:HG22	3:N:1429:LEU:HD22	1.96	0.48
3:N:1449:GLU:HG3	9:N:9417:HOH:O	2.13	0.48
3:N:166:GLN:HB3	3:N:395:VAL:CG2	2.43	0.48
3:N:87:ARG:HD2	3:N:524:LEU:HD23	1.96	0.48
3:N:588:GLY:HA2	9:N:9647:HOH:O	2.13	0.48
3:N:630:VAL:HG12	3:N:631:ILE:N	2.27	0.48
5:P:148:LYS:NZ	5:P:148:LYS:HB2	2.28	0.48
1:A:127:LEU:HD12	1:A:128:HIS:N	2.29	0.48
2:C:443:THR:HG21	3:D:1078:ARG:HE	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:958:THR:HG23	2:C:961:GLU:H	1.78	0.48
3:D:1263:PHE:O	3:D:1424:VAL:HG23	2.13	0.48
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.13	0.48
3:D:162:ARG:HB2	3:D:162:ARG:CZ	2.43	0.48
3:D:162:ARG:HB3	9:D:9697:HOH:O	2.13	0.48
3:D:524:LEU:C	3:D:526:PRO:HD3	2.34	0.48
3:D:556:LYS:HB3	9:F:9588:HOH:O	2.12	0.48
3:D:54:LYS:HD3	3:D:55:ASP:OD1	2.14	0.48
3:D:702:LEU:O	3:D:713:ILE:HA	2.14	0.48
3:D:966:GLU:HG3	3:D:969:ARG:NH2	2.28	0.48
5:F:393:THR:HG22	5:F:394:ARG:N	2.27	0.48
5:F:421:PHE:C	5:F:423:ASP:H	2.16	0.48
1:K:183:ASP:OD1	2:M:938:LYS:HE3	2.14	0.48
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.79	0.48
1:L:56:VAL:HB	1:L:165:ILE:HD11	1.94	0.48
2:M:334:ARG:HD2	9:M:9389:HOH:O	2.13	0.48
2:M:769:PRO:HD3	9:M:2572:HOH:O	2.13	0.48
1:K:178:ALA:HB2	2:M:864:GLY:H	1.78	0.48
2:M:929:ARG:NH2	9:M:2113:HOH:O	2.45	0.48
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.94	0.48
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.44	0.48
3:N:1376:MET:HB3	9:N:9377:HOH:O	2.13	0.48
3:N:502:PHE:CE2	3:N:1452:ILE:HG13	2.49	0.48
3:N:202:VAL:HG11	9:N:9932:HOH:O	2.13	0.48
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.96	0.48
3:N:813:LEU:HD12	3:N:814:ALA:N	2.29	0.48
3:N:959:GLU:HB2	3:N:963:TYR:CE2	2.49	0.48
5:P:158:GLU:HA	5:P:161:GLN:HG3	1.95	0.48
2:C:1095:LEU:HD11	3:D:603:LEU:HB3	1.95	0.48
2:C:92:ALA:O	2:C:118:ILE:HD13	2.14	0.48
2:C:165:LEU:HD12	2:C:166:PRO:HA	1.95	0.48
2:C:309:TYR:HA	2:C:312:ALA:HB3	1.95	0.48
2:C:882:LEU:HD12	3:D:1061:PHE:HB3	1.95	0.48
3:D:1339:LYS:HD2	9:D:2575:HOH:O	2.14	0.48
3:D:18:ILE:HD12	3:D:518:PRO:HG3	1.96	0.48
3:D:988:ARG:HB3	9:D:9919:HOH:O	2.14	0.48
5:F:299:TRP:CD2	5:F:303:ARG:HD3	2.49	0.48
5:F:80:PRO:HA	5:F:83:GLN:HB3	1.94	0.48
1:K:89:PHE:HZ	1:K:144:VAL:HG12	1.79	0.48
1:K:6:LEU:C	1:K:8:ALA:H	2.17	0.48
2:M:1004:LYS:HE3	2:M:1027:PHE:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:190:LYS:NZ	9:M:9816:HOH:O	2.47	0.48
2:M:983:ILE:HD12	2:M:987:ILE:HD12	1.94	0.48
3:N:1046:GLN:N	9:N:9308:HOH:O	2.43	0.48
3:N:137:PRO:HB2	9:N:9902:HOH:O	2.13	0.48
3:N:142:LEU:HA	9:N:9368:HOH:O	2.14	0.48
3:N:1478:SER:C	3:N:1480:PHE:N	2.67	0.48
3:N:181:ASP:O	3:N:185:VAL:HG23	2.14	0.48
3:N:826:PRO:HD2	3:N:829:VAL:HG22	1.96	0.48
5:P:416:ARG:NH1	5:P:419:ARG:HD3	2.29	0.48
1:B:220:GLU:HB3	9:B:9783:HOH:O	2.14	0.48
1:B:47:SER:O	1:B:49:PRO:N	2.47	0.48
2:C:1072:LYS:HE2	9:C:2855:HOH:O	2.14	0.48
2:C:1081:VAL:HB	2:C:1086:ARG:HE	1.79	0.48
2:C:369:PRO:HG2	2:C:370:ALA:H	1.78	0.48
9:A:9662:HOH:O	2:C:645:VAL:HG21	2.14	0.48
2:C:68:PHE:HZ	2:C:71:TYR:HD2	1.61	0.48
2:C:751:PRO:HA	2:C:792:VAL:CG1	2.44	0.48
3:D:957:PRO:HG2	3:D:1007:VAL:CA	2.42	0.48
3:D:179:VAL:HG21	9:D:9579:HOH:O	2.13	0.48
9:C:9793:HOH:O	3:D:21:TRP:HB3	2.13	0.48
4:E:81:PRO:HA	9:E:9589:HOH:O	2.14	0.48
5:F:260:ILE:HD11	5:F:264:MET:HB3	1.96	0.48
1:L:156:HIS:CD2	1:L:158:ILE:HG12	2.49	0.48
2:M:292:ARG:HB2	2:M:299:LYS:NZ	2.28	0.48
2:M:892:LEU:HD21	2:M:967:PHE:CE1	2.48	0.48
3:N:1168:MET:HE2	9:N:9270:HOH:O	2.14	0.48
3:N:1156:LEU:HD23	3:N:1182:GLU:OE1	2.13	0.48
3:N:1380:GLU:HG2	3:N:1381:VAL:N	2.28	0.48
3:N:1415:VAL:HG23	9:N:9894:HOH:O	2.14	0.48
3:N:584:ASN:H	3:N:602:SER:HB3	1.79	0.48
3:N:834:THR:HG22	3:N:838:ARG:NE	2.28	0.48
2:C:130:ASN:HB3	9:C:9665:HOH:O	2.12	0.47
2:C:13:ILE:HD13	2:C:483:VAL:HG11	1.95	0.47
2:C:56:GLU:HG2	9:C:2542:HOH:O	2.13	0.47
2:C:762:LYS:HD3	2:C:771:GLU:OE2	2.13	0.47
3:D:154:THR:HG22	9:D:9682:HOH:O	2.14	0.47
3:D:86:ARG:HG2	3:D:523:ASP:OD1	2.14	0.47
3:D:62:LYS:HD3	9:D:2796:HOH:O	2.13	0.47
3:D:795:VAL:HG13	3:D:863:VAL:HG22	1.96	0.47
2:C:1115:LEU:HD22	3:D:88:TYR:CD1	2.47	0.47
5:F:220:LEU:O	5:F:224:VAL:HG23	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1005:MET:HG2	9:M:9335:HOH:O	2.14	0.47
2:M:302:VAL:O	2:M:306:THR:HG23	2.14	0.47
2:M:397:GLU:H	2:M:633:GLN:HE22	1.62	0.47
2:M:67:ASP:HA	9:M:9629:HOH:O	2.12	0.47
2:M:859:PRO:O	2:M:867:VAL:HG22	2.14	0.47
3:N:1147:ARG:NH2	9:N:9659:HOH:O	2.47	0.47
3:N:71:LYS:HE3	9:N:2288:HOH:O	2.13	0.47
3:N:8:VAL:HG23	9:N:9608:HOH:O	2.13	0.47
3:N:965:GLU:HB3	9:N:9892:HOH:O	2.14	0.47
3:N:984:THR:HG23	3:N:986:ARG:N	2.29	0.47
5:P:352:GLU:HG2	9:P:6518:HOH:O	2.14	0.47
5:P:400:ILE:HG12	9:P:1779:HOH:O	2.13	0.47
1:A:91:ASN:HA	9:A:9714:HOH:O	2.13	0.47
1:B:9:PRO:HB3	1:B:25:LEU:CG	2.44	0.47
2:C:91:GLN:HG2	2:C:119:PRO:HG3	1.96	0.47
2:C:18:LEU:HD12	2:C:18:LEU:N	2.28	0.47
3:D:1036:ARG:HG2	9:D:9667:HOH:O	2.15	0.47
3:D:1133:ARG:NH2	9:D:9997:HOH:O	2.47	0.47
3:D:1236:LEU:HD22	3:D:1355:VAL:HG12	1.96	0.47
3:D:119:SER:N	3:D:123:LEU:HD13	2.28	0.47
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.13	0.47
3:D:1339:LYS:HB3	3:D:1343:ALA:CB	2.44	0.47
3:D:542:ASP:O	3:D:546:ARG:HG2	2.13	0.47
3:D:827:ILE:HG12	9:D:2351:HOH:O	2.14	0.47
4:E:81:PRO:HD3	9:E:9619:HOH:O	2.13	0.47
4:E:96:GLU:HA	9:E:9628:HOH:O	2.12	0.47
5:F:270:LYS:HE3	9:F:9917:HOH:O	2.13	0.47
2:M:141:HIS:HB2	2:M:418:LEU:HD12	1.94	0.47
2:M:324:ASP:HB3	2:M:327:HIS:CD2	2.40	0.47
2:M:503:LEU:HD12	2:M:505:GLY:O	2.14	0.47
2:M:644:VAL:HG22	2:M:647:GLN:NE2	2.29	0.47
2:M:679:PHE:CD1	2:M:870:ILE:HD13	2.48	0.47
2:M:879:ARG:H	2:M:879:ARG:HD2	1.78	0.47
2:M:92:ALA:HB1	9:M:9468:HOH:O	2.13	0.47
3:N:1197:ARG:HD3	9:N:9581:HOH:O	2.13	0.47
3:N:12:LEU:HB2	9:N:9257:HOH:O	2.13	0.47
3:N:1311:LEU:H	3:N:1311:LEU:CD2	2.24	0.47
3:N:1435:LEU:HB2	9:N:9646:HOH:O	2.15	0.47
3:N:448:GLU:CD	3:N:448:GLU:N	2.67	0.47
3:N:496:LEU:HG	3:N:500:ARG:HG2	1.96	0.47
3:N:706:PRO:HG2	9:N:9369:HOH:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:907:GLU:O	3:N:911:LEU:HD13	2.13	0.47
3:N:920:LEU:HA	9:N:2152:HOH:O	2.13	0.47
5:P:131:VAL:O	5:P:135:ILE:HG12	2.14	0.47
1:A:64:GLU:OE2	1:A:76:VAL:HG13	2.14	0.47
2:C:365:ASP:C	2:C:367:LEU:HD23	2.34	0.47
2:C:724:ARG:HD3	2:C:740:GLU:HA	1.96	0.47
2:C:831:ARG:HH21	2:C:999:HIS:HB2	1.78	0.47
3:D:1092:GLY:O	3:D:1096:ARG:N	2.42	0.47
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.44	0.47
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.15	0.47
3:D:1493:LYS:HD3	9:D:9925:HOH:O	2.14	0.47
3:D:488:ARG:HB3	3:D:488:ARG:CZ	2.44	0.47
3:D:523:ASP:HB3	9:D:2189:HOH:O	2.13	0.47
3:D:894:LYS:O	3:D:898:GLU:HG3	2.13	0.47
3:D:983:LEU:HA	3:D:987:GLU:OE2	2.14	0.47
1:L:96:THR:HB	1:L:145:ASP:OD2	2.13	0.47
2:M:506:ASN:HB2	9:M:9830:HOH:O	2.13	0.47
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.28	0.47
2:M:926:PHE:O	2:M:929:ARG:HB2	2.14	0.47
3:N:1191:PRO:HD3	3:N:1204:CYS:O	2.13	0.47
3:N:1253:THR:HG23	3:N:1258:ARG:HH11	1.79	0.47
3:N:441:ARG:HE	3:N:441:ARG:HA	1.79	0.47
3:N:76:CYS:HA	9:N:9585:HOH:O	2.14	0.47
3:N:799:LYS:HG2	9:N:9312:HOH:O	2.14	0.47
5:P:257:THR:HB	5:P:314:PRO:HG3	1.97	0.47
1:A:140:MET:HA	9:A:9798:HOH:O	2.14	0.47
1:B:162:ILE:HG21	9:B:9631:HOH:O	2.14	0.47
2:C:1105:LYS:O	2:C:1107:ASN:N	2.48	0.47
2:C:291:ALA:O	2:C:292:ARG:HB2	2.14	0.47
2:C:34:VAL:HG22	9:C:9698:HOH:O	2.14	0.47
2:C:721:ARG:HD3	9:C:9781:HOH:O	2.14	0.47
2:C:971:LYS:NZ	9:C:9615:HOH:O	2.47	0.47
3:D:1044:LEU:HB2	9:D:2029:HOH:O	2.14	0.47
3:D:1307:LYS:HG2	9:D:2092:HOH:O	2.14	0.47
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.96	0.47
3:D:796:ARG:NH1	3:D:861:GLN:HB2	2.30	0.47
4:E:47:LYS:CA	4:E:54:LEU:HB3	2.45	0.47
4:E:51:LEU:C	4:E:53:GLY:H	2.16	0.47
5:F:104:ARG:HG3	5:F:229:TYR:OH	2.15	0.47
5:F:215:GLU:O	5:F:218:GLN:HB3	2.15	0.47
5:F:325:LYS:HB2	9:F:9915:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:173:PRO:HB2	1:K:205:VAL:HG22	1.96	0.47
1:L:115:LEU:HD12	1:L:115:LEU:O	2.14	0.47
1:L:169:ALA:HA	9:L:1542:HOH:O	2.15	0.47
1:L:23:PHE:O	1:L:196:THR:HA	2.13	0.47
1:L:201:THR:HG22	1:L:203:GLY:H	1.79	0.47
1:L:8:ALA:HA	9:L:1271:HOH:O	2.14	0.47
2:M:254:VAL:HG13	2:M:258:TYR:CE1	2.48	0.47
2:M:313:LEU:HD13	2:M:321:GLU:O	2.15	0.47
2:M:325:ILE:HG21	9:M:2230:HOH:O	2.15	0.47
2:M:607:ASP:C	2:M:609:ASN:H	2.17	0.47
2:M:965:GLU:HG2	9:M:9258:HOH:O	2.15	0.47
3:N:1360:GLY:HA3	9:N:9449:HOH:O	2.14	0.47
9:M:9660:HOH:O	3:N:20:SER:HA	2.13	0.47
3:N:523:ASP:O	3:N:526:PRO:HG3	2.14	0.47
3:N:74:GLU:HG2	9:N:2213:HOH:O	2.12	0.47
3:N:845:ASN:H	3:N:848:GLU:HG3	1.78	0.47
4:O:47:LYS:O	4:O:54:LEU:HD13	2.14	0.47
5:P:209:PHE:CZ	5:P:213:ILE:HD11	2.49	0.47
5:P:353:GLU:CG	5:P:417:LYS:HB3	2.44	0.47
1:A:193:ASP:OD2	2:C:938:LYS:HD2	2.14	0.47
1:A:88:ARG:HD2	1:A:123:MET:HE2	1.96	0.47
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.35	0.47
1:B:105:GLY:HA3	9:B:9797:HOH:O	2.14	0.47
1:B:206:THR:HG22	1:B:209:GLU:HG3	1.95	0.47
3:D:79:GLU:HG2	3:D:80:VAL:N	2.29	0.47
3:D:928:ALA:O	3:D:931:LEU:HB2	2.14	0.47
9:C:9757:HOH:O	3:D:948:THR:HG21	2.13	0.47
4:E:82:GLU:HG2	4:E:83:ASP:H	1.80	0.47
1:L:133:GLU:HG3	1:L:134:GLU:H	1.80	0.47
2:M:164:PRO:HA	2:M:266:ARG:CZ	2.44	0.47
2:M:164:PRO:CA	2:M:266:ARG:HH12	2.23	0.47
2:M:926:PHE:HE1	9:M:2113:HOH:O	1.97	0.47
3:N:1046:GLN:HG2	9:N:9308:HOH:O	2.13	0.47
3:N:1086:LEU:HD22	9:N:9961:HOH:O	2.14	0.47
3:N:136:ASP:CG	3:N:137:PRO:HD3	2.35	0.47
3:N:396:VAL:HG22	3:N:447:VAL:HB	1.97	0.47
3:N:704:ARG:HG2	9:N:9228:HOH:O	2.13	0.47
3:N:734:GLU:HB3	9:N:9236:HOH:O	2.14	0.47
3:N:809:PRO:O	3:N:812:ALA:HB3	2.15	0.47
3:N:969:ARG:HD3	9:N:9710:HOH:O	2.13	0.47
4:O:41:GLU:HB3	4:O:42:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:GLU:O	1:A:110:LYS:HG3	2.15	0.47
1:A:228:PRO:HG3	9:A:9640:HOH:O	2.14	0.47
2:C:507:ARG:HG2	2:C:508:ILE:O	2.14	0.47
2:C:728:HIS:C	2:C:729:LEU:HD22	2.35	0.47
2:C:551:GLU:HB3	2:C:906:PHE:CD2	2.49	0.47
3:D:1210:SER:HA	9:D:2674:HOH:O	2.13	0.47
3:D:1263:PHE:CE1	3:D:1352:ILE:HD13	2.50	0.47
3:D:1353:GLN:O	3:D:1357:ARG:HD2	2.14	0.47
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.96	0.47
3:D:1194:CYS:HB3	3:D:1373:ARG:NH2	2.29	0.47
3:D:1487:VAL:HG12	3:D:1488:ASP:H	1.78	0.47
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.97	0.47
2:M:91:GLN:HA	2:M:119:PRO:HA	1.95	0.47
2:M:298:PHE:HB2	9:M:2564:HOH:O	2.13	0.47
2:M:344:PHE:O	2:M:348:LEU:HD13	2.14	0.47
2:M:403:SER:C	2:M:407:LYS:HE2	2.35	0.47
2:M:444:PRO:HG2	2:M:452:ILE:CD1	2.45	0.47
2:M:910:LYS:HB2	9:M:2099:HOH:O	2.14	0.47
2:M:939:ARG:HD2	9:M:9308:HOH:O	2.14	0.47
3:N:1161:GLU:HG2	3:N:1164:ARG:HB2	1.95	0.47
3:N:123:LEU:HD11	3:N:152:LEU:CD2	2.45	0.47
3:N:1274:ILE:HB	3:N:1322:GLY:HA2	1.97	0.47
3:N:1396:GLU:HA	3:N:1399:ASP:OD2	2.14	0.47
3:N:463:GLN:HB3	9:N:9580:HOH:O	2.14	0.47
3:N:62:LYS:HE2	9:N:2079:HOH:O	2.15	0.47
3:N:836:VAL:HG12	9:N:9618:HOH:O	2.14	0.47
3:N:98:PRO:HG3	3:N:515:GLU:CB	2.37	0.47
4:O:30:LEU:O	4:O:35:PHE:HA	2.15	0.47
5:P:161:GLN:HA	5:P:164:LYS:HD2	1.96	0.47
5:P:402:ASN:O	5:P:406:ARG:HD2	2.15	0.47
2:C:1005:MET:SD	3:D:648:MET:HB2	2.55	0.47
2:C:250:ARG:HH21	2:C:254:VAL:HB	1.79	0.47
2:C:334:ARG:HA	2:C:338:GLU:OE2	2.15	0.47
2:C:346:VAL:O	2:C:350:ARG:HG3	2.15	0.47
2:C:403:SER:C	2:C:407:LYS:HD3	2.34	0.47
2:C:408:ARG:HD2	2:C:542:VAL:CG2	2.44	0.47
2:C:603:VAL:O	2:C:646:GLY:HA2	2.15	0.47
2:C:73:LEU:N	2:C:73:LEU:HD12	2.29	0.47
2:C:953:VAL:HB	2:C:962:GLN:CG	2.45	0.47
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.96	0.47
3:D:1084:THR:HG23	9:D:2894:HOH:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.18	0.47
3:D:50:PHE:HB3	3:D:522:PRO:HG2	1.97	0.47
3:D:838:ARG:HH12	3:D:863:VAL:CG1	2.27	0.47
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.49	0.47
1:K:108:GLU:O	1:K:110:LYS:HG3	2.14	0.47
1:K:48:ILE:HA	1:K:49:PRO:HD3	1.75	0.47
2:M:129:ILE:HG12	2:M:134:ARG:HD2	1.95	0.47
2:M:66:LEU:CD1	2:M:98:LEU:HD22	2.45	0.47
3:N:1182:GLU:HG3	9:N:9246:HOH:O	2.14	0.47
3:N:1189:ARG:HA	3:N:1189:ARG:HH11	1.80	0.47
3:N:210:ARG:HB3	9:N:9661:HOH:O	2.15	0.47
3:N:400:VAL:HA	3:N:442:ASN:O	2.14	0.47
3:N:93:ILE:HG12	3:N:548:ILE:HD11	1.97	0.47
3:N:998:GLU:O	3:N:1002:LYS:HG3	2.13	0.47
5:P:182:ALA:O	5:P:185:GLN:HB2	2.14	0.47
5:P:257:THR:CB	5:P:314:PRO:HG3	2.45	0.47
5:P:405:LEU:HD23	9:P:3207:HOH:O	2.13	0.47
1:A:176:ARG:HA	9:A:9583:HOH:O	2.14	0.47
1:A:74:ASP:O	1:A:78:ILE:HG13	2.15	0.47
1:B:109:VAL:HG23	1:B:132:LEU:HD13	1.96	0.47
1:B:41:ARG:HG3	1:B:177:VAL:HB	1.95	0.47
2:C:1072:LYS:HD3	9:C:9670:HOH:O	2.14	0.47
2:C:253:ALA:O	2:C:256:TYR:HB2	2.15	0.47
2:C:458:TYR:O	2:C:460:ARG:HD2	2.14	0.47
2:C:524:VAL:HG22	2:C:528:GLU:HB2	1.96	0.47
2:C:536:PRO:HD2	2:C:537:LYS:HZ1	1.80	0.47
2:C:73:LEU:HD11	2:C:94:LEU:HD13	1.96	0.47
2:C:988:VAL:N	9:C:9757:HOH:O	2.46	0.47
3:D:1271:LYS:HD2	3:D:1334:GLN:OE1	2.14	0.47
3:D:393:ILE:HG13	3:D:393:ILE:H	1.53	0.47
3:D:523:ASP:O	3:D:526:PRO:HG3	2.14	0.47
3:D:579:ASP:HB2	9:D:9699:HOH:O	2.14	0.47
3:D:60:CYS:SG	3:D:62:LYS:HG2	2.54	0.47
3:D:613:ARG:HA	9:D:9688:HOH:O	2.15	0.47
3:D:646:LYS:HG3	3:D:647:ARG:N	2.29	0.47
3:D:804:LEU:HD21	3:D:829:VAL:CG2	2.42	0.47
3:D:893:GLU:O	3:D:896:ALA:HB3	2.15	0.47
5:F:209:PHE:O	5:F:213:ILE:HG13	2.14	0.47
5:F:226:LYS:HB2	9:F:9706:HOH:O	2.15	0.47
5:F:335:ASP:HB2	9:F:9582:HOH:O	2.15	0.47
2:M:261:ILE:HG22	2:M:262:ALA:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:432:ARG:HD3	2:M:432:ARG:H	1.80	0.47
2:M:586:ARG:HB3	2:M:586:ARG:HH11	1.79	0.47
2:M:799:ILE:HD13	2:M:799:ILE:N	2.30	0.47
3:N:1310:ARG:O	3:N:1327:ARG:HB2	2.15	0.47
3:N:1406:ARG:HG2	3:N:1406:ARG:O	2.15	0.47
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.95	0.47
3:N:754:PHE:O	3:N:757:ALA:HB3	2.15	0.47
3:N:785:ILE:HD12	3:N:785:ILE:H	1.80	0.47
3:N:840:LYS:HA	9:N:9609:HOH:O	2.14	0.47
4:O:54:LEU:HG	4:O:58:PRO:CG	2.45	0.47
5:P:288:TYR:HA	5:P:291:ILE:CG2	2.45	0.47
5:P:396:ARG:HD2	9:P:6184:HOH:O	2.14	0.47
5:P:416:ARG:HH11	5:P:419:ARG:HB2	1.80	0.47
1:A:106:PRO:HG3	9:A:9569:HOH:O	2.15	0.47
1:B:192:LEU:HG	9:B:9584:HOH:O	2.15	0.47
2:C:651:LYS:HE3	9:C:2035:HOH:O	2.15	0.47
2:C:749:VAL:HA	9:C:9864:HOH:O	2.15	0.47
2:C:916:GLU:O	2:C:919:ALA:HB3	2.15	0.47
3:D:1404:ASN:CG	3:D:1408:ILE:HD12	2.35	0.47
3:D:1448:THR:O	3:D:1451:ALA:HB3	2.15	0.47
3:D:447:VAL:HG23	9:D:9599:HOH:O	2.14	0.47
3:D:493:ARG:HD3	3:D:1390:LEU:HD21	1.97	0.47
3:D:50:PHE:O	3:D:86:ARG:HA	2.14	0.47
3:D:102:ILE:HD12	3:D:579:ASP:HB3	1.96	0.47
3:D:644:LEU:HD12	3:D:644:LEU:O	2.15	0.47
2:C:877:PRO:HD3	3:D:949:ILE:CD1	2.44	0.47
3:D:959:GLU:HB2	3:D:963:TYR:CE1	2.49	0.47
4:E:48:MET:CB	4:E:54:LEU:HB2	2.39	0.47
5:F:245:GLN:HA	9:F:9828:HOH:O	2.13	0.47
5:F:276:ARG:HB3	9:F:9760:HOH:O	2.15	0.47
5:F:369:LEU:O	5:F:373:LYS:HB2	2.14	0.47
5:F:406:ARG:HA	5:F:409:LYS:CD	2.45	0.47
1:K:45:LEU:HD21	1:K:177:VAL:HG23	1.97	0.47
2:M:1074:GLU:HG3	9:M:2120:HOH:O	2.13	0.47
2:M:257:VAL:C	2:M:259:GLY:H	2.18	0.47
2:M:283:ILE:HG12	9:M:9557:HOH:O	2.15	0.47
2:M:47:ALA:HA	2:M:50:GLU:OE2	2.14	0.47
2:M:625:LEU:HB3	2:M:639:GLN:HB2	1.96	0.47
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.97	0.47
3:N:17:LYS:HG2	3:N:21:TRP:CE2	2.50	0.47
3:N:445:ARG:HG2	3:N:445:ARG:HH11	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:704:ARG:HD3	9:N:9228:HOH:O	2.14	0.47
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.44	0.47
4:O:9:LEU:HB3	4:O:19:LEU:HD21	1.96	0.47
5:P:284:ARG:HB3	9:P:4605:HOH:O	2.15	0.47
2:C:100:LEU:CD2	2:C:368:THR:HA	2.44	0.47
2:C:1016:ILE:HD13	2:C:1016:ILE:N	2.29	0.47
2:C:1085:PHE:O	2:C:1088:LEU:HB3	2.15	0.47
2:C:165:LEU:HD12	2:C:166:PRO:C	2.36	0.47
3:D:1045:MET:HA	9:D:2022:HOH:O	2.14	0.47
3:D:1217:ILE:HD13	3:D:1480:PHE:CE2	2.49	0.47
3:D:475:LYS:O	3:D:478:LEU:HB2	2.15	0.47
3:D:601:ARG:HH22	3:D:613:ARG:HE	1.63	0.47
2:C:1039:ALA:CB	3:D:713:ILE:HD12	2.45	0.47
5:F:397:ILE:HG21	9:F:9936:HOH:O	2.14	0.47
1:K:152:PRO:HD2	1:K:155:LYS:HB2	1.97	0.47
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	1.98	0.47
2:M:346:VAL:HG12	2:M:350:ARG:NE	2.29	0.47
2:M:342:ASP:O	2:M:346:VAL:HG23	2.15	0.47
2:M:782:ALA:HB1	9:M:9603:HOH:O	2.14	0.47
2:M:701:THR:HG22	2:M:832:LYS:HA	1.97	0.47
3:N:1033:GLN:HA	9:N:2161:HOH:O	2.14	0.47
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.15	0.47
3:N:1148:VAL:O	3:N:1189:ARG:HG2	2.15	0.47
3:N:607:LEU:HA	9:N:2546:HOH:O	2.15	0.47
3:N:974:ILE:HG12	3:N:991:GLN:HE21	1.79	0.47
5:P:191:ASN:HA	9:P:1478:HOH:O	2.15	0.47
9:M:9896:HOH:O	5:P:373:LYS:HB3	2.14	0.47
1:A:6:LEU:C	1:A:8:ALA:H	2.18	0.47
2:C:253:ALA:HB3	9:C:2420:HOH:O	2.14	0.47
2:C:913:GLU:O	2:C:916:GLU:HB3	2.15	0.47
3:D:1194:CYS:SG	3:D:1200:VAL:HA	2.55	0.47
3:D:1339:LYS:HG2	3:D:1343:ALA:HB2	1.97	0.47
3:D:445:ARG:HG2	3:D:445:ARG:NH1	2.30	0.47
3:D:676:MET:HE1	3:D:684:LYS:H	1.80	0.47
5:F:142:ARG:HA	9:F:9681:HOH:O	2.15	0.47
3:D:54:LYS:HA	5:F:337:HIS:HE1	1.80	0.47
1:K:138:LEU:HB2	9:K:8021:HOH:O	2.15	0.47
1:K:184:THR:HG22	1:K:192:LEU:O	2.15	0.47
1:L:90:LEU:HD21	9:L:3389:HOH:O	2.15	0.47
2:M:1083:GLU:O	2:M:1087:VAL:HG23	2.15	0.47
2:M:152:PRO:HD2	9:M:9283:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:165:LEU:HD12	2:M:166:PRO:C	2.35	0.47
2:M:310:LEU:HD11	9:M:2059:HOH:O	2.15	0.47
2:M:871:LEU:HD12	2:M:872:ASN:O	2.14	0.47
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.44	0.47
3:N:1020:LEU:HA	3:N:1023:MET:HE2	1.97	0.47
3:N:1134:LEU:HB2	9:N:2308:HOH:O	2.15	0.47
5:P:99:GLU:OE1	5:P:235:PHE:HB3	2.15	0.47
1:B:173:PRO:HB2	1:B:205:VAL:HG22	1.98	0.46
2:C:184:MET:HE1	2:C:186:VAL:N	2.30	0.46
2:C:41:ASN:H	2:C:41:ASN:ND2	2.12	0.46
2:C:89:THR:HG22	2:C:91:GLN:HG3	1.97	0.46
2:C:942:GLU:HG3	9:C:9752:HOH:O	2.14	0.46
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.45	0.46
3:D:865:THR:HG22	9:D:9766:HOH:O	2.14	0.46
3:D:992:ILE:HA	9:D:2129:HOH:O	2.14	0.46
5:F:166:LEU:HD13	5:F:170:HIS:CB	2.44	0.46
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.96	0.46
1:K:54:THR:HG21	1:K:145:ASP:OD1	2.15	0.46
1:L:108:GLU:O	1:L:110:LYS:HG3	2.15	0.46
2:M:165:LEU:HD21	2:M:334:ARG:HH21	1.79	0.46
2:M:485:TYR:HD2	9:M:9411:HOH:O	1.97	0.46
2:M:600:ASP:HA	9:M:2442:HOH:O	2.14	0.46
3:N:1052:THR:HG22	9:N:9337:HOH:O	2.15	0.46
3:N:1188:VAL:HG22	3:N:1189:ARG:O	2.15	0.46
3:N:1219:GLU:HG3	4:O:17:TYR:OH	2.15	0.46
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.80	0.46
3:N:566:ILE:CD1	5:P:217:ASN:HD22	2.28	0.46
3:N:686:GLU:HG2	9:N:2678:HOH:O	2.14	0.46
4:O:39:VAL:HG12	9:O:1697:HOH:O	2.14	0.46
5:P:106:VAL:HA	9:P:1566:HOH:O	2.15	0.46
5:P:359:SER:HA	9:P:1489:HOH:O	2.15	0.46
1:A:191:ASP:O	1:A:192:LEU:HD23	2.16	0.46
1:A:50:GLY:N	9:A:9574:HOH:O	2.47	0.46
1:B:49:PRO:HA	1:B:148:VAL:HG12	1.98	0.46
2:C:217:LEU:HD23	9:C:9668:HOH:O	2.15	0.46
2:C:2:GLU:HG2	9:C:2528:HOH:O	2.16	0.46
2:C:369:PRO:HG2	9:C:2433:HOH:O	2.15	0.46
2:C:517:ARG:HB2	9:C:9578:HOH:O	2.15	0.46
2:C:591:SER:HB2	9:C:9610:HOH:O	2.15	0.46
2:C:6:PHE:CE1	2:C:909:ALA:HB2	2.51	0.46
2:C:678:PRO:HG3	2:C:873:PRO:HD2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:899:GLN:OE1	2:C:901:TYR:HE2	1.98	0.46
9:C:9869:HOH:O	3:D:1068:LEU:HD13	2.15	0.46
3:D:1165:TYR:HB2	9:D:9690:HOH:O	2.15	0.46
3:D:754:PHE:CE2	3:D:1476:THR:HG21	2.49	0.46
3:D:207:PHE:HB3	3:D:395:VAL:HG21	1.97	0.46
3:D:458:ALA:HB2	9:D:2106:HOH:O	2.15	0.46
3:D:542:ASP:HA	3:D:545:ARG:HE	1.80	0.46
3:D:539:ASP:HB3	3:D:600:LEU:HD12	1.97	0.46
3:D:702:LEU:HD13	3:D:716:PHE:HD1	1.81	0.46
4:E:76:GLY:N	4:E:79:LEU:HD22	2.29	0.46
5:F:287:THR:CG2	5:F:289:GLU:HB2	2.41	0.46
5:F:365:GLU:O	5:F:369:LEU:HD12	2.15	0.46
2:M:151:ASP:HB2	2:M:157:ARG:O	2.15	0.46
2:M:19:THR:HG22	2:M:23:VAL:HG23	1.97	0.46
2:M:278:GLU:HG3	2:M:283:ILE:O	2.16	0.46
2:M:405:ARG:HD2	2:M:442:GLU:OE2	2.15	0.46
3:N:36:THR:O	3:N:38:LYS:N	2.48	0.46
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.46	0.46
3:N:711:LEU:C	3:N:713:ILE:H	2.19	0.46
4:O:39:VAL:HA	9:O:1697:HOH:O	2.15	0.46
5:P:166:LEU:HD22	5:P:170:HIS:HB2	1.98	0.46
5:P:192:LEU:HD22	9:P:4506:HOH:O	2.15	0.46
5:P:264:MET:O	5:P:268:ILE:HG13	2.16	0.46
5:P:315:VAL:HG12	5:P:316:SER:H	1.80	0.46
1:B:115:LEU:O	1:B:115:LEU:HD12	2.14	0.46
1:B:213:GLN:O	1:B:217:ILE:HG13	2.15	0.46
2:C:1102:LEU:N	3:D:7:LYS:O	2.48	0.46
2:C:91:GLN:HA	2:C:119:PRO:HA	1.96	0.46
2:C:230:ARG:HB2	2:C:233:GLU:HB3	1.97	0.46
2:C:246:ASP:HB2	9:C:2442:HOH:O	2.15	0.46
2:C:35:PRO:HD2	2:C:38:LYS:CE	2.46	0.46
2:C:422:ARG:HD3	9:C:2680:HOH:O	2.16	0.46
2:C:657:ASP:OD1	2:C:661:SER:HB2	2.14	0.46
2:C:737:LEU:HD11	2:C:754:ILE:HG21	1.95	0.46
2:C:861:LEU:CD2	2:C:863:ASP:H	2.28	0.46
2:C:933:GLY:HA2	9:C:2021:HOH:O	2.16	0.46
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.15	0.46
3:D:172:PRO:HB3	3:D:178:LEU:HB3	1.98	0.46
3:D:206:ARG:HA	3:D:206:ARG:HH11	1.80	0.46
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.96	0.46
5:F:147:LEU:HD23	9:F:9698:HOH:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:162:ILE:HG13	1:K:163:ASN:ND2	2.30	0.46
1:K:29:GLU:HB3	9:K:4304:HOH:O	2.14	0.46
2:M:127:PHE:O	2:M:133:ASP:HA	2.16	0.46
2:M:313:LEU:C	2:M:315:ALA:H	2.17	0.46
2:M:725:ASP:O	2:M:727:PRO:HD3	2.15	0.46
2:M:950:LEU:HD12	2:M:952:LEU:HD21	1.97	0.46
3:N:1031:ASN:OD1	3:N:1033:GLN:HB2	2.15	0.46
3:N:1340:GLY:O	3:N:1344:VAL:HG23	2.15	0.46
3:N:168:THR:OG1	3:N:393:ILE:HD12	2.15	0.46
3:N:408:GLU:HG2	9:N:9546:HOH:O	2.15	0.46
3:N:433:GLY:HA3	3:N:450:TYR:HA	1.96	0.46
3:N:686:GLU:HG3	9:N:2781:HOH:O	2.14	0.46
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.96	0.46
3:N:829:VAL:HG22	9:N:9736:HOH:O	2.15	0.46
5:P:109:GLY:HA3	9:P:1566:HOH:O	2.14	0.46
5:P:351:SER:HB2	9:P:6220:HOH:O	2.15	0.46
2:M:773:LEU:HD11	5:P:405:LEU:HD13	1.97	0.46
1:A:197:LEU:HD23	1:A:197:LEU:N	2.27	0.46
1:A:217:ILE:HB	9:A:9598:HOH:O	2.15	0.46
2:C:313:LEU:C	2:C:315:ALA:H	2.18	0.46
2:C:601:GLY:HA3	2:C:615:TYR:HA	1.98	0.46
2:C:922:PHE:HD2	9:C:2177:HOH:O	1.99	0.46
3:D:1209:LEU:HD13	3:D:1219:GLU:OE2	2.15	0.46
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.45	0.46
3:D:1379:VAL:O	3:D:1392:GLY:HA2	2.16	0.46
3:D:13:ALA:O	3:D:511:TRP:HB3	2.15	0.46
3:D:919:PHE:HA	3:D:927:THR:OG1	2.16	0.46
1:L:75:VAL:O	1:L:79:ILE:HG23	2.15	0.46
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.46	0.46
2:M:480:THR:HG22	2:M:482:GLU:N	2.30	0.46
2:M:546:LEU:HA	2:M:581:THR:OG1	2.15	0.46
2:M:560:MET:O	2:M:564:MET:HB2	2.15	0.46
3:N:1478:SER:C	3:N:1480:PHE:H	2.17	0.46
3:N:806:PHE:HE1	3:N:813:LEU:HB3	1.80	0.46
3:N:827:ILE:O	3:N:837:GLY:HA3	2.15	0.46
3:N:842:VAL:HG23	9:N:9393:HOH:O	2.14	0.46
4:O:41:GLU:H	4:O:42:PRO:HD2	1.80	0.46
4:O:41:GLU:CA	4:O:45:ARG:HG3	2.45	0.46
4:O:40:LEU:CG	4:O:67:GLU:HG2	2.45	0.46
5:P:231:ARG:HA	9:P:2972:HOH:O	2.15	0.46
1:A:57:TYR:CE1	1:A:163:ASN:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1059:ASP:N	9:C:9720:HOH:O	2.49	0.46
2:C:129:ILE:N	2:C:129:ILE:HD12	2.31	0.46
2:C:498:GLN:HG3	9:C:9570:HOH:O	2.16	0.46
2:C:524:VAL:HG22	2:C:525:SER:H	1.81	0.46
3:D:1351:GLU:O	3:D:1354:LYS:HB2	2.16	0.46
3:D:431:VAL:HG12	9:D:2014:HOH:O	2.15	0.46
3:D:446:VAL:HG11	9:D:9698:HOH:O	2.15	0.46
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.20	0.46
3:D:523:ASP:N	3:D:523:ASP:OD1	2.47	0.46
3:D:534:ARG:HG3	9:D:2518:HOH:O	2.15	0.46
2:C:1036:GLU:HA	3:D:707:THR:HG21	1.97	0.46
1:K:184:THR:O	1:K:192:LEU:HD12	2.15	0.46
2:M:19:THR:HG22	2:M:19:THR:O	2.15	0.46
2:M:504:GLU:HA	9:M:9395:HOH:O	2.16	0.46
2:M:544:THR:HA	2:M:562:SER:OG	2.15	0.46
2:M:564:MET:HG2	2:M:840:ALA:CB	2.46	0.46
2:M:841:ASN:ND2	2:M:845:ASN:N	2.64	0.46
3:N:1044:LEU:CD2	3:N:1056:PRO:HG3	2.46	0.46
3:N:1192:LEU:HD22	3:N:1345:GLU:OE2	2.14	0.46
3:N:772:PRO:HG3	9:N:9333:HOH:O	2.15	0.46
4:O:86:GLN:O	4:O:90:GLU:HG3	2.15	0.46
3:N:65:ARG:HG2	5:P:375:LEU:HA	1.98	0.46
5:P:416:ARG:HA	9:P:4146:HOH:O	2.15	0.46
2:C:187:ASN:HB3	9:C:9640:HOH:O	2.15	0.46
2:C:250:ARG:HD2	9:C:9629:HOH:O	2.15	0.46
2:C:358:ARG:HB3	2:C:371:LYS:O	2.16	0.46
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.80	0.46
2:C:751:PRO:HB2	3:D:680:GLN:CG	2.44	0.46
2:C:89:THR:O	2:C:91:GLN:HG3	2.14	0.46
3:D:1051:GLU:HB3	9:D:2777:HOH:O	2.15	0.46
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.80	0.46
3:D:550:ARG:HG3	3:D:550:ARG:NH1	2.30	0.46
3:D:543:LEU:HD13	3:D:581:LEU:HA	1.97	0.46
3:D:687:VAL:O	3:D:690:ALA:HB3	2.15	0.46
3:D:704:ARG:CD	3:D:705:ALA:H	2.25	0.46
4:E:39:VAL:HA	9:E:9571:HOH:O	2.14	0.46
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.80	0.46
1:K:115:LEU:O	1:K:115:LEU:HD12	2.15	0.46
1:L:134:GLU:HG2	9:L:6529:HOH:O	2.16	0.46
2:M:145:GLY:H	2:M:163:ILE:CG2	2.28	0.46
2:M:207:LEU:O	2:M:211:LEU:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:288:ARG:NH1	2:M:288:ARG:HG3	2.26	0.46
2:M:578:VAL:HG21	2:M:991:GLN:O	2.16	0.46
2:M:630:ARG:HG3	2:M:630:ARG:HH11	1.80	0.46
3:N:1158:VAL:HG12	3:N:1159:ARG:N	2.31	0.46
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	1.97	0.46
3:N:1442:ASN:HD22	3:N:1443:THR:N	2.13	0.46
3:N:414:ARG:HA	9:N:9486:HOH:O	2.16	0.46
3:N:570:GLU:HB2	5:P:214:GLN:NE2	2.30	0.46
4:O:13:VAL:HG11	4:O:19:LEU:HB2	1.98	0.46
5:P:349:LEU:HD23	9:P:2092:HOH:O	2.16	0.46
5:P:367:MET:HA	5:P:370:LYS:HG2	1.98	0.46
5:P:94:LEU:HB3	5:P:98:GLU:H	1.81	0.46
2:C:148:PHE:HE1	2:C:281:LEU:HD22	1.80	0.46
2:C:141:HIS:HE1	2:C:332:ARG:HE	1.62	0.46
2:C:464:LEU:HB3	9:C:2642:HOH:O	2.16	0.46
2:C:671:ASN:HD22	2:C:993:PHE:HD2	1.64	0.46
3:D:1294:VAL:HG13	9:D:2676:HOH:O	2.15	0.46
3:D:1354:LYS:HD3	9:D:2684:HOH:O	2.15	0.46
3:D:1384:PRO:HG3	3:D:1389:LEU:N	2.31	0.46
9:C:9607:HOH:O	3:D:18:ILE:HD11	2.14	0.46
3:D:202:VAL:O	3:D:204:LEU:HG	2.15	0.46
3:D:32:ILE:HG13	3:D:45:PHE:HD2	1.80	0.46
3:D:166:GLN:HB3	3:D:395:VAL:CG2	2.46	0.46
3:D:711:LEU:C	3:D:713:ILE:H	2.18	0.46
9:D:9992:HOH:O	5:F:168:LYS:HG2	2.15	0.46
5:F:267:THR:HA	5:F:270:LYS:HZ2	1.80	0.46
1:K:41:ARG:NH1	1:K:177:VAL:HB	2.29	0.46
1:L:83:LYS:HG2	9:L:4413:HOH:O	2.15	0.46
2:M:1104:GLU:O	3:N:7:LYS:HE2	2.15	0.46
2:M:265:ARG:HD2	9:M:2426:HOH:O	2.15	0.46
2:M:281:LEU:HB2	2:M:309:TYR:CD1	2.51	0.46
2:M:564:MET:CE	2:M:846:LYS:HE2	2.45	0.46
2:M:586:ARG:HH12	2:M:590:ASP:CG	2.19	0.46
2:M:724:ARG:HB2	2:M:741:GLY:N	2.31	0.46
2:M:770:GLU:HA	2:M:770:GLU:OE2	2.15	0.46
3:N:127:LEU:HD12	3:N:128:TYR:N	2.30	0.46
3:N:1236:LEU:HA	3:N:1359:GLN:OE1	2.16	0.46
3:N:649:ALA:HB3	3:N:691:LEU:HD21	1.97	0.46
2:M:1036:GLU:HG3	3:N:707:THR:OG1	2.15	0.46
3:N:702:LEU:O	3:N:713:ILE:HA	2.15	0.46
3:N:770:LEU:HD23	3:N:777:PRO:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:861:GLN:HB2	9:N:9290:HOH:O	2.14	0.46
4:O:94:PRO:HA	9:O:9005:HOH:O	2.15	0.46
1:B:95:GLN:HB3	9:B:9815:HOH:O	2.15	0.46
2:C:1059:ASP:OD1	2:C:1080:SER:HB2	2.16	0.46
2:C:405:ARG:HH22	2:C:409:ARG:HH21	1.63	0.46
2:C:455:LEU:HD22	2:C:459:ALA:CB	2.46	0.46
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.17	0.46
2:C:626:ARG:NH1	2:C:637:LEU:HD12	2.30	0.46
2:C:723:THR:HA	9:C:9700:HOH:O	2.15	0.46
2:C:774:LEU:HB2	9:C:2198:HOH:O	2.15	0.46
2:C:756:VAL:CG2	2:C:823:VAL:HG11	2.45	0.46
2:C:870:ILE:HD12	2:C:870:ILE:N	2.31	0.46
3:D:1026:SER:HB2	9:D:9566:HOH:O	2.15	0.46
3:D:1144:LEU:HD11	3:D:1186:VAL:HG21	1.96	0.46
3:D:438:ASP:OD2	3:D:440:VAL:HB	2.16	0.46
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.51	0.46
3:D:814:ALA:O	3:D:818:ARG:HG3	2.16	0.46
2:C:1102:LEU:CD1	3:D:9:ARG:HG2	2.45	0.46
4:E:51:LEU:HD22	9:E:9663:HOH:O	2.16	0.46
1:L:185:ARG:HH12	3:N:692:GLU:HG3	1.79	0.46
1:L:182:GLU:O	1:L:194:LYS:HB3	2.16	0.46
2:M:1083:GLU:HG2	9:M:9233:HOH:O	2.16	0.46
2:M:22:GLN:O	2:M:121:MET:HE1	2.16	0.46
2:M:585:GLU:O	2:M:588:VAL:HG22	2.16	0.46
2:M:713:ARG:HH11	2:M:713:ARG:HG2	1.81	0.46
2:M:749:VAL:O	2:M:749:VAL:HG23	2.15	0.46
3:N:687:VAL:O	3:N:690:ALA:HB3	2.15	0.46
3:N:756:GLN:O	3:N:760:ARG:HG2	2.15	0.46
3:N:65:ARG:HG2	5:P:374:GLY:O	2.15	0.46
5:P:87:GLU:O	5:P:91:VAL:HG23	2.16	0.46
5:P:93:LEU:CD2	5:P:98:GLU:HB3	2.46	0.46
1:B:201:THR:HG22	1:B:203:GLY:H	1.81	0.46
2:C:1000:MET:HB2	2:C:1002:GLU:HG2	1.97	0.46
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.98	0.46
2:C:408:ARG:HD2	2:C:542:VAL:HG21	1.98	0.46
2:C:597:ALA:O	2:C:652:GLY:N	2.47	0.46
3:D:1293:PHE:HB3	9:D:9737:HOH:O	2.15	0.46
3:D:1376:MET:HG2	3:D:1421:LEU:HA	1.97	0.46
3:D:104:PHE:HE2	3:D:1448:THR:HA	1.81	0.46
1:K:75:VAL:O	1:K:79:ILE:HG23	2.16	0.46
2:M:404:LEU:HA	2:M:407:LYS:HE2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:613:VAL:HB	9:M:9426:HOH:O	2.14	0.46
2:M:946:ARG:HB2	9:M:9918:HOH:O	2.16	0.46
3:N:1076:GLY:HA2	3:N:1079:LYS:HG2	1.98	0.46
3:N:187:LYS:HA	9:N:9419:HOH:O	2.16	0.46
3:N:186:VAL:HG13	3:N:187:LYS:N	2.31	0.46
3:N:27:GLU:N	9:N:9304:HOH:O	2.49	0.46
3:N:395:VAL:O	3:N:395:VAL:HG12	2.16	0.46
3:N:657:LEU:O	3:N:661:MET:HG2	2.16	0.46
5:P:125:ASP:HB2	9:P:8230:HOH:O	2.16	0.46
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.45	0.46
5:P:220:LEU:O	5:P:224:VAL:HG23	2.16	0.46
1:A:209:GLU:O	1:A:213:GLN:HG3	2.16	0.46
1:B:19:GLU:HG3	9:B:9589:HOH:O	2.15	0.46
2:C:133:ASP:HB2	2:C:632:ASN:ND2	2.27	0.46
2:C:569:VAL:HG12	2:C:996:LYS:O	2.16	0.46
2:C:724:ARG:HB2	2:C:740:GLU:CA	2.42	0.46
2:C:768:THR:HG22	2:C:771:GLU:H	1.81	0.46
2:C:808:ARG:HD3	9:C:2330:HOH:O	2.15	0.46
2:C:887:GLU:OE1	2:C:992:MET:HA	2.15	0.46
2:C:66:LEU:HD11	2:C:98:LEU:HD22	1.98	0.46
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.97	0.46
3:D:154:THR:HG22	3:D:155:ASP:H	1.81	0.46
3:D:493:ARG:O	3:D:497:GLU:HG2	2.16	0.46
3:D:508:ARG:HA	3:D:509:PRO:HD2	1.71	0.46
3:D:465:LEU:HD22	3:D:510:GLU:HA	1.98	0.46
3:D:649:ALA:HB3	3:D:691:LEU:HD21	1.97	0.46
5:F:220:LEU:O	5:F:223:ALA:HB3	2.16	0.46
1:K:70:GLY:HA2	1:K:133:GLU:CG	2.46	0.46
2:M:1056:LYS:HB3	3:N:624:ASP:H	1.80	0.46
2:M:115:LEU:HD12	2:M:115:LEU:O	2.16	0.46
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.46	0.46
2:M:839:LEU:HD11	2:M:849:VAL:HG22	1.98	0.46
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.97	0.46
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.15	0.46
3:N:138:LYS:HD3	9:N:9902:HOH:O	2.16	0.46
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.28	0.46
3:N:1498:ALA:HB2	9:N:9438:HOH:O	2.16	0.46
3:N:50:PHE:O	3:N:86:ARG:HA	2.15	0.46
3:N:525:ARG:N	3:N:526:PRO:HD3	2.31	0.46
3:N:38:LYS:NZ	3:N:59:ALA:HB1	2.30	0.46
5:P:394:ARG:HB3	9:P:6528:HOH:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:14:ARG:HA	9:B:9663:HOH:O	2.15	0.45
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.97	0.45
1:B:50:GLY:HA3	1:B:171:PHE:O	2.16	0.45
2:C:1097:LEU:CD2	2:C:1097:LEU:H	2.20	0.45
2:C:157:ARG:HD2	2:C:314:THR:CG2	2.39	0.45
2:C:6:PHE:HA	2:C:8:ARG:HH21	1.80	0.45
2:C:721:ARG:HA	9:C:2273:HOH:O	2.16	0.45
2:C:815:LEU:HD21	2:C:819:VAL:O	2.16	0.45
2:C:1:MET:SD	2:C:900:ARG:HD3	2.56	0.45
3:D:1097:LYS:HD2	9:D:9821:HOH:O	2.16	0.45
3:D:1122:LEU:HD12	3:D:1122:LEU:N	2.30	0.45
3:D:1283:ILE:HG22	3:D:1284:GLU:H	1.81	0.45
3:D:1375:MET:SD	3:D:1423:GLY:HA2	2.55	0.45
3:D:521:PRO:C	3:D:525:ARG:HH11	2.20	0.45
3:D:90:MET:HE3	3:D:520:LEU:HA	1.97	0.45
5:F:371:LEU:CD2	5:F:375:LEU:HD22	2.45	0.45
2:M:1060:ILE:HG12	2:M:1063:ARG:NH2	2.30	0.45
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.97	0.45
2:M:818:GLY:HA3	9:M:2517:HOH:O	2.16	0.45
3:N:651:GLU:HG2	9:N:2423:HOH:O	2.16	0.45
1:A:5:LYS:HE3	1:A:5:LYS:HA	1.97	0.45
2:C:1058:ASP:CG	2:C:1084:SER:H	2.19	0.45
2:C:208:ALA:HB1	2:C:218:VAL:HG11	1.97	0.45
2:C:17:PRO:O	2:C:20:GLU:HB3	2.17	0.45
2:C:24:GLU:HA	9:C:2056:HOH:O	2.15	0.45
2:C:585:GLU:HG2	2:C:665:PHE:CD2	2.51	0.45
2:C:768:THR:HG23	9:C:2074:HOH:O	2.16	0.45
2:C:945:ARG:HB3	9:C:2615:HOH:O	2.17	0.45
3:D:1121:PRO:C	3:D:1122:LEU:HD12	2.36	0.45
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.16	0.45
3:D:1188:VAL:HG22	3:D:1189:ARG:O	2.15	0.45
3:D:11:ALA:HB2	9:D:9902:HOH:O	2.14	0.45
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.39	0.45
3:D:464:LEU:O	3:D:468:LEU:HG	2.16	0.45
3:D:125:GLN:HE22	3:D:587:ARG:HE	1.65	0.45
3:D:776:GLU:HB3	3:D:912:LYS:HE2	1.98	0.45
5:F:173:TYR:HA	5:F:176:ILE:HD12	1.97	0.45
5:F:214:GLN:O	5:F:217:ASN:HB2	2.16	0.45
5:F:238:TYR:HB2	9:F:9643:HOH:O	2.16	0.45
5:F:309:LYS:HD3	9:F:9794:HOH:O	2.16	0.45
1:K:212:ASN:HD22	1:K:212:ASN:N	2.13	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:33:GLY:O	1:K:195:LEU:HD13	2.17	0.45
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.98	0.45
2:M:16:PRO:HB3	2:M:460:ARG:HH11	1.81	0.45
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.42	0.45
2:M:252:LYS:HE2	2:M:296:GLY:HA3	1.97	0.45
2:M:174:LEU:HB2	2:M:310:LEU:HD22	1.99	0.45
2:M:399:ASN:ND2	2:M:568:ALA:HB3	2.31	0.45
3:N:166:GLN:HE21	3:N:167:GLU:C	2.19	0.45
3:N:445:ARG:H	3:N:445:ARG:HD2	1.79	0.45
3:N:468:LEU:HD12	9:N:9350:HOH:O	2.16	0.45
3:N:919:PHE:HA	3:N:927:THR:OG1	2.17	0.45
3:N:928:ALA:O	3:N:931:LEU:HB2	2.15	0.45
5:P:266:GLU:HB2	5:P:270:LYS:HZ2	1.80	0.45
5:P:289:GLU:O	5:P:293:GLU:HG3	2.17	0.45
2:C:21:ILE:HD12	2:C:21:ILE:N	2.30	0.45
2:C:685:GLU:HB3	9:C:2345:HOH:O	2.15	0.45
2:C:962:GLN:N	9:C:9884:HOH:O	2.49	0.45
3:D:1259:VAL:O	3:D:1263:PHE:HD1	1.99	0.45
3:D:148:GLU:HG2	9:D:9755:HOH:O	2.15	0.45
3:D:178:LEU:HD11	9:D:2532:HOH:O	2.15	0.45
3:D:577:ALA:O	3:D:580:ALA:HB3	2.17	0.45
3:D:84:ILE:HG13	3:D:85:VAL:N	2.31	0.45
5:F:356:LYS:HD3	9:F:9676:HOH:O	2.15	0.45
1:K:57:TYR:CE1	1:K:163:ASN:HB2	2.46	0.45
1:L:143:ARG:HB2	9:L:7130:HOH:O	2.15	0.45
2:M:194:VAL:HG13	2:M:221:LEU:HD12	1.97	0.45
2:M:424:GLY:O	2:M:428:ARG:HG3	2.17	0.45
2:M:545:ASN:HB2	9:M:9531:HOH:O	2.16	0.45
2:M:605:LYS:HD2	9:M:9417:HOH:O	2.16	0.45
2:M:627:ARG:HD2	9:M:9479:HOH:O	2.17	0.45
2:M:841:ASN:ND2	2:M:845:ASN:HB3	2.32	0.45
2:M:955:PRO:HG2	9:M:9748:HOH:O	2.15	0.45
3:N:154:THR:HG23	3:N:157:GLU:H	1.81	0.45
3:N:182:GLY:HA2	9:N:9237:HOH:O	2.15	0.45
3:N:479:GLU:HB3	9:N:9264:HOH:O	2.15	0.45
3:N:660:LYS:O	3:N:664:LYS:HG3	2.16	0.45
3:N:737:ASN:C	9:N:9228:HOH:O	2.54	0.45
5:P:366:ALA:HB2	9:P:1329:HOH:O	2.15	0.45
1:A:198:ARG:HB2	1:A:200:TRP:CZ3	2.52	0.45
1:A:48:ILE:HA	1:A:49:PRO:HD3	1.79	0.45
1:A:89:PHE:HB2	9:A:9614:HOH:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:90:LEU:HA	9:A:9720:HOH:O	2.17	0.45
2:C:136:ILE:HD11	9:C:9782:HOH:O	2.15	0.45
2:C:288:ARG:HH11	2:C:288:ARG:HA	1.82	0.45
2:C:794:PRO:HD2	9:C:9926:HOH:O	2.16	0.45
2:C:707:ARG:HG3	2:C:826:TYR:CZ	2.51	0.45
3:D:1168:MET:HA	3:D:1168:MET:HE3	1.97	0.45
3:D:660:LYS:O	3:D:663:GLU:HB2	2.16	0.45
3:D:710:ARG:HG3	3:D:711:LEU:N	2.31	0.45
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.98	0.45
5:F:230:LYS:HA	9:F:9842:HOH:O	2.16	0.45
5:F:93:LEU:CD2	5:F:98:GLU:HB3	2.46	0.45
1:K:197:LEU:N	9:K:1736:HOH:O	2.48	0.45
2:M:1076:VAL:HG22	3:N:752:SER:HB3	1.98	0.45
2:M:187:ASN:HB3	9:M:2286:HOH:O	2.16	0.45
2:M:273:GLY:HA2	9:M:9612:HOH:O	2.17	0.45
2:M:353:ARG:HA	9:M:9887:HOH:O	2.16	0.45
2:M:367:LEU:HA	2:M:371:LYS:HB2	1.98	0.45
2:M:42:VAL:HG12	2:M:43:GLY:N	2.26	0.45
2:M:492:ASP:CA	2:M:518:LYS:HB3	2.43	0.45
2:M:59:LYS:HB3	9:M:9726:HOH:O	2.16	0.45
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.82	0.45
3:N:50:PHE:HB3	3:N:522:PRO:HG2	1.99	0.45
4:O:70:THR:HA	9:O:2214:HOH:O	2.16	0.45
4:O:82:GLU:HG3	9:O:2121:HOH:O	2.17	0.45
9:M:9246:HOH:O	5:P:345:ALA:HA	2.15	0.45
5:P:405:LEU:HG	9:P:3208:HOH:O	2.16	0.45
1:B:226:SER:O	1:B:228:PRO:HD3	2.16	0.45
1:B:80:LEU:HD13	3:D:842:VAL:HG12	1.98	0.45
2:C:204:GLN:HB2	9:C:2456:HOH:O	2.17	0.45
2:C:584:GLU:O	2:C:588:VAL:HG13	2.16	0.45
2:C:820:ARG:HA	9:C:2072:HOH:O	2.17	0.45
3:D:1033:GLN:O	3:D:1036:ARG:HB3	2.16	0.45
3:D:1103:HIS:HA	3:D:1223:ILE:CD1	2.45	0.45
3:D:1343:ALA:HA	9:D:2807:HOH:O	2.15	0.45
3:D:1356:TYR:HD2	3:D:1361:VAL:HG11	1.82	0.45
3:D:1428:ALA:C	3:D:1430:SER:H	2.18	0.45
3:D:1493:LYS:HE2	9:D:9651:HOH:O	2.16	0.45
3:D:4:GLU:HG3	9:D:2516:HOH:O	2.15	0.45
3:D:500:ARG:HA	9:D:2025:HOH:O	2.16	0.45
3:D:684:LYS:O	3:D:687:VAL:HG23	2.17	0.45
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1030:GLN:O	3:N:622:ARG:HA	2.17	0.45
2:M:1085:PHE:CE2	3:N:1468:LEU:HG	2.51	0.45
2:M:16:PRO:O	2:M:18:LEU:HD12	2.15	0.45
2:M:183:SER:HA	2:M:190:LYS:HB2	1.99	0.45
2:M:292:ARG:CZ	2:M:299:LYS:HD3	2.47	0.45
2:M:502:PRO:HA	9:M:2305:HOH:O	2.16	0.45
2:M:612:VAL:HG22	2:M:622:GLU:HG3	1.99	0.45
2:M:727:PRO:HG3	2:M:783:ARG:CZ	2.47	0.45
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.17	0.45
3:N:1054:GLU:HB2	9:N:9784:HOH:O	2.17	0.45
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.52	0.45
3:N:1114:THR:HG22	3:N:1195:GLN:HB2	1.97	0.45
3:N:116:LEU:O	3:N:118:LEU:N	2.49	0.45
3:N:1176:LYS:O	3:N:1179:GLU:HB2	2.17	0.45
3:N:1299:PHE:HB2	9:N:2802:HOH:O	2.16	0.45
3:N:1409:ALA:HB2	9:N:9520:HOH:O	2.16	0.45
3:N:543:LEU:O	3:N:546:ARG:HB2	2.16	0.45
3:N:577:ALA:O	3:N:580:ALA:HB3	2.17	0.45
3:N:701:LEU:C	3:N:702:LEU:HD12	2.37	0.45
3:N:704:ARG:HH12	3:N:743:ASP:HB3	1.79	0.45
4:O:77:GLU:HB2	9:O:2132:HOH:O	2.15	0.45
5:P:133:ALA:HB1	9:P:2305:HOH:O	2.15	0.45
5:P:292:ALA:O	5:P:299:TRP:HB2	2.15	0.45
5:P:315:VAL:HG12	5:P:316:SER:N	2.31	0.45
1:A:20:TYR:HE2	1:A:198:ARG:HB3	1.81	0.45
2:C:1016:ILE:CD1	2:C:1016:ILE:H	2.20	0.45
2:C:1081:VAL:HB	2:C:1086:ARG:NH2	2.31	0.45
2:C:164:PRO:HA	2:C:266:ARG:HH12	1.80	0.45
2:C:475:VAL:HA	9:C:9621:HOH:O	2.16	0.45
2:C:505:GLY:HA3	9:C:9589:HOH:O	2.17	0.45
2:C:580:MET:HB3	9:C:2049:HOH:O	2.16	0.45
3:D:1103:HIS:HA	3:D:1223:ILE:HD12	1.99	0.45
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	1.98	0.45
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.97	0.45
3:D:206:ARG:HB3	3:D:206:ARG:NH1	2.32	0.45
3:D:213:VAL:HA	9:D:2673:HOH:O	2.16	0.45
3:D:452:ILE:HG23	3:D:452:ILE:O	2.17	0.45
3:D:777:PRO:HD2	3:D:912:LYS:HE2	1.97	0.45
5:F:160:ASP:OD2	5:F:163:LEU:HD12	2.16	0.45
1:L:153:ALA:HA	1:L:156:HIS:CE1	2.51	0.45
2:M:84:ARG:HH12	2:M:128:ILE:HG12	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:250:ARG:HD2	9:M:9919:HOH:O	2.17	0.45
2:M:799:ILE:HD13	2:M:799:ILE:H	1.81	0.45
2:M:892:LEU:HD13	2:M:989:VAL:O	2.16	0.45
3:N:1195:GLN:HG3	9:N:2116:HOH:O	2.17	0.45
3:N:1359:GLN:HB3	3:N:1359:GLN:HE21	1.49	0.45
3:N:1428:ALA:C	3:N:1430:SER:H	2.20	0.45
3:N:572:ARG:O	3:N:575:GLN:HB3	2.17	0.45
3:N:988:ARG:HD2	3:N:992:ILE:CD1	2.46	0.45
4:O:29:GLN:HB2	4:O:33:HIS:HD2	1.81	0.45
5:P:217:ASN:O	5:P:220:LEU:HB3	2.16	0.45
5:P:361:LEU:HD22	5:P:404:ALA:HB1	1.99	0.45
1:A:219:ARG:HG2	9:A:9621:HOH:O	2.17	0.45
1:B:207:PRO:HD2	9:B:9568:HOH:O	2.17	0.45
1:B:228:PRO:HG2	9:B:9723:HOH:O	2.15	0.45
2:C:1083:GLU:O	2:C:1087:VAL:HG23	2.16	0.45
2:C:1089:VAL:HG13	2:C:1099:VAL:HB	1.98	0.45
2:C:151:ASP:OD1	2:C:152:PRO:HD2	2.17	0.45
2:C:202:TYR:CZ	2:C:304:LEU:HD22	2.51	0.45
2:C:262:ALA:HB2	9:C:2720:HOH:O	2.15	0.45
2:C:717:LEU:HD11	2:C:764:GLU:O	2.16	0.45
2:C:777:ILE:HG23	9:C:9997:HOH:O	2.16	0.45
3:D:1087:ARG:HD2	9:D:9624:HOH:O	2.17	0.45
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.15	0.45
3:D:1460:ILE:HA	9:D:2240:HOH:O	2.17	0.45
3:D:148:GLU:N	3:D:148:GLU:CD	2.70	0.45
3:D:196:VAL:HG13	3:D:202:VAL:HG13	1.98	0.45
3:D:441:ARG:O	3:D:443:VAL:N	2.44	0.45
3:D:586:ARG:HD2	9:D:2072:HOH:O	2.17	0.45
3:D:808:THR:HB	3:D:809:PRO:HD3	1.97	0.45
3:D:908:LYS:NZ	8:N:9100:G4P:O2D	2.49	0.45
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.99	0.45
2:M:1088:LEU:O	2:M:1091:GLU:HB2	2.17	0.45
2:M:172:ILE:HA	2:M:185:LYS:O	2.16	0.45
2:M:288:ARG:NH1	2:M:289:THR:HG23	2.31	0.45
2:M:395:LYS:HE3	2:M:407:LYS:HZ2	1.82	0.45
2:M:407:LYS:HG2	9:M:9254:HOH:O	2.15	0.45
2:M:327:HIS:ND1	2:M:433:THR:HG21	2.32	0.45
2:M:501:THR:O	2:M:503:LEU:HD23	2.16	0.45
2:M:575:GLN:H	2:M:667:ALA:HB1	1.81	0.45
2:M:713:ARG:HD2	9:M:9901:HOH:O	2.17	0.45
3:N:1017:PHE:HZ	9:N:9258:HOH:O	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1194:CYS:SG	3:N:1200:VAL:HA	2.57	0.45
3:N:1241:PHE:O	3:N:1257:PRO:HB3	2.17	0.45
3:N:1312:LEU:HG	3:N:1327:ARG:HG3	1.99	0.45
3:N:1433:SER:HB2	3:N:1457:ASP:OD1	2.17	0.45
3:N:179:VAL:HG11	9:N:2712:HOH:O	2.17	0.45
3:N:421:LEU:HD12	3:N:435:VAL:CG1	2.44	0.45
3:N:631:ILE:HG21	3:N:745:MET:HG3	1.97	0.45
3:N:813:LEU:O	3:N:817:GLU:HB2	2.15	0.45
3:N:964:LEU:O	3:N:968:ASP:HB2	2.17	0.45
5:P:166:LEU:HD13	5:P:170:HIS:CB	2.47	0.45
1:A:22:GLU:N	9:A:9810:HOH:O	2.49	0.45
1:A:53:VAL:HG21	1:A:82:LEU:HB3	1.99	0.45
1:B:13:VAL:HG11	1:B:208:LEU:HD21	1.99	0.45
1:B:34:VAL:HG11	2:C:978:ARG:HB3	1.98	0.45
2:C:1047:HIS:CD2	3:D:1471:LEU:HD11	2.52	0.45
2:C:1081:VAL:HB	2:C:1086:ARG:CZ	2.47	0.45
2:C:958:THR:CG2	2:C:961:GLU:HB2	2.46	0.45
3:D:175:VAL:HG11	9:D:9726:HOH:O	2.17	0.45
3:D:560:GLN:HG3	5:F:221:ILE:HG21	1.99	0.45
3:D:570:GLU:OE2	5:F:214:GLN:HG3	2.16	0.45
3:D:867:ARG:HG3	9:D:2678:HOH:O	2.16	0.45
3:D:792:ILE:HD12	3:D:941:PHE:CE1	2.52	0.45
3:D:972:LEU:CG	3:D:976:GLN:HE22	2.23	0.45
3:D:986:ARG:NH1	3:D:986:ARG:HB2	2.32	0.45
4:E:41:GLU:HB3	4:E:42:PRO:HD3	1.98	0.45
5:F:257:THR:C	5:F:258:ILE:HG13	2.37	0.45
5:F:376:ILE:HG22	9:F:9780:HOH:O	2.16	0.45
1:L:166:PRO:HB2	9:L:3282:HOH:O	2.16	0.45
1:L:176:ARG:HH12	3:N:884:ARG:CZ	2.29	0.45
1:L:2:LEU:HD12	1:L:3:ASP:H	1.82	0.45
2:M:1031:ARG:HB3	9:N:9740:HOH:O	2.16	0.45
2:M:20:GLU:O	2:M:24:GLU:HB2	2.16	0.45
2:M:404:LEU:CD2	2:M:587:VAL:HG13	2.47	0.45
2:M:709:GLU:CD	2:M:824:ARG:HG2	2.38	0.45
2:M:745:ILE:HG12	9:M:9460:HOH:O	2.17	0.45
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.46	0.45
3:N:1390:LEU:HD13	9:N:9981:HOH:O	2.17	0.45
3:N:1425:THR:O	3:N:1429:LEU:HD13	2.17	0.45
3:N:177:ALA:C	3:N:199:LEU:HD13	2.37	0.45
3:N:448:GLU:H	3:N:448:GLU:CD	2.20	0.45
3:N:590:PRO:HD2	9:N:9686:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:701:LEU:O	3:N:702:LEU:HD12	2.16	0.45
3:N:792:ILE:O	3:N:878:GLY:HA3	2.17	0.45
3:N:824:ASN:O	3:N:826:PRO:HD3	2.17	0.45
4:O:40:LEU:HB2	4:O:45:ARG:CD	2.46	0.45
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.99	0.45
5:P:171:LYS:HG2	5:P:175:HIS:CE1	2.52	0.45
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.98	0.45
1:A:41:ARG:HH11	1:A:41:ARG:HG3	1.82	0.45
1:B:68:ILE:HG23	9:B:9743:HOH:O	2.16	0.45
2:C:612:VAL:HG22	2:C:622:GLU:CA	2.46	0.45
2:C:676:ILE:HG22	2:C:988:VAL:O	2.17	0.45
2:C:838:LYS:HD2	2:C:846:LYS:HZ3	1.81	0.45
2:C:672:VAL:HG23	2:C:868:ASP:OD2	2.17	0.45
3:D:1005:GLN:HB2	9:D:9713:HOH:O	2.16	0.45
3:D:1046:GLN:HB3	3:D:1052:THR:CG2	2.47	0.45
3:D:170:PRO:O	3:D:391:ALA:HB3	2.17	0.45
3:D:216:VAL:HG12	9:D:9564:HOH:O	2.17	0.45
3:D:561:GLY:HA2	9:D:9763:HOH:O	2.17	0.45
3:D:833:GLU:HB2	9:D:2078:HOH:O	2.16	0.45
3:D:95:LEU:HA	9:D:2002:HOH:O	2.17	0.45
5:F:96:LEU:O	5:F:100:VAL:HG23	2.17	0.45
2:M:455:LEU:HD22	2:M:459:ALA:HB1	1.98	0.45
2:M:397:GLU:H	2:M:633:GLN:NE2	2.14	0.45
2:M:673:LEU:HD13	9:M:9318:HOH:O	2.16	0.45
3:N:469:ASP:OD1	3:N:471:GLU:HB2	2.17	0.45
4:O:32:ARG:C	4:O:34:GLY:H	2.20	0.45
3:N:693:GLU:HG3	4:O:48:MET:HE3	1.98	0.45
5:P:306:GLU:O	5:P:310:ILE:HG13	2.17	0.45
1:B:176:ARG:HB3	9:B:9633:HOH:O	2.16	0.45
2:C:1014:SER:OG	5:F:331:ASP:HA	2.17	0.45
2:C:404:LEU:HA	2:C:407:LYS:HZ3	1.81	0.45
2:C:650:ARG:HG3	9:C:9988:HOH:O	2.17	0.45
2:C:764:GLU:HG3	9:F:9714:HOH:O	2.16	0.45
2:C:881:ASN:H	2:C:881:ASN:ND2	2.14	0.45
3:D:1141:GLU:O	3:D:1145:TYR:HB2	2.17	0.45
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.81	0.45
3:D:161:LEU:O	3:D:449:SER:HB2	2.17	0.45
5:F:125:ASP:O	5:F:129:GLU:HG2	2.16	0.45
5:F:151:LEU:HB2	5:F:155:THR:OG1	2.17	0.45
5:F:84:TYR:HD2	5:F:192:LEU:HD13	1.82	0.45
1:K:57:TYR:CD2	1:K:161:ARG:HD3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:35:PRO:HD2	2:M:38:LYS:HG2	1.99	0.45
2:M:742:VAL:HG12	2:M:743:VAL:N	2.32	0.45
2:M:955:PRO:HD3	9:M:9923:HOH:O	2.17	0.45
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.17	0.45
3:N:133:ILE:HD11	3:N:456:MET:HE3	1.99	0.45
3:N:1459:LEU:HB3	3:N:1465:ASN:HD22	1.82	0.45
3:N:161:LEU:HG	3:N:449:SER:OG	2.17	0.45
3:N:789:LEU:HD12	3:N:911:LEU:HD21	1.98	0.45
5:P:150:THR:HG23	5:P:155:THR:CG2	2.46	0.45
5:P:77:THR:HA	9:P:1606:HOH:O	2.17	0.45
2:C:134:ARG:HG3	2:C:393:GLN:O	2.17	0.44
2:C:257:VAL:C	2:C:259:GLY:H	2.21	0.44
2:C:439:CYS:HB2	2:C:541:SER:HB3	1.99	0.44
2:C:895:TYR:HD1	2:C:991:GLN:HE21	1.64	0.44
3:D:12:LEU:HD21	3:D:104:PHE:CE1	2.52	0.44
3:D:35:ARG:HD3	9:D:2024:HOH:O	2.17	0.44
3:D:416:ALA:HB3	3:D:417:PRO:HD3	1.99	0.44
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.47	0.44
3:D:441:ARG:HB3	3:D:443:VAL:HG23	1.98	0.44
3:D:59:ALA:HB2	9:D:2190:HOH:O	2.17	0.44
3:D:844:ALA:O	3:D:867:ARG:HB3	2.17	0.44
3:D:956:ILE:HB	9:D:2735:HOH:O	2.18	0.44
5:F:153:PRO:CG	5:F:154:LYS:H	2.30	0.44
5:F:295:MET:HE2	5:F:295:MET:HA	1.99	0.44
1:L:49:PRO:HA	1:L:148:VAL:HG12	2.00	0.44
1:L:213:GLN:HG3	9:L:1267:HOH:O	2.17	0.44
2:M:276:LYS:HG3	9:M:9544:HOH:O	2.16	0.44
2:M:927:GLY:HA2	2:M:930:LYS:HZ2	1.81	0.44
3:N:1031:ASN:O	3:N:1034:GLN:HB2	2.17	0.44
3:N:829:VAL:HA	9:N:9979:HOH:O	2.17	0.44
3:N:903:ASP:HA	9:N:9960:HOH:O	2.17	0.44
9:N:9941:HOH:O	5:P:312:GLN:HB3	2.16	0.44
5:P:413:SER:HA	9:P:2117:HOH:O	2.16	0.44
1:A:181:VAL:HG12	9:C:9642:HOH:O	2.18	0.44
2:C:172:ILE:H	2:C:172:ILE:HD12	1.82	0.44
2:C:64:LEU:HD13	2:C:359:MET:CG	2.47	0.44
3:D:1149:LEU:HD11	3:D:1160:LEU:HB3	2.00	0.44
3:D:1260:ILE:HG21	9:D:2566:HOH:O	2.17	0.44
3:D:191:LEU:HD22	3:D:195:VAL:HG11	1.99	0.44
3:D:177:ALA:CA	3:D:199:LEU:HD13	2.46	0.44
3:D:699:VAL:HB	3:D:716:PHE:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:54:LEU:HG	4:E:58:PRO:CG	2.47	0.44
5:F:134:LYS:NZ	5:F:160:ASP:HB2	2.31	0.44
5:F:274:THR:O	5:F:278:LEU:HG	2.18	0.44
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.97	0.44
2:M:1105:LYS:O	2:M:1107:ASN:N	2.50	0.44
2:M:301:GLU:HA	9:M:2582:HOH:O	2.17	0.44
2:M:302:VAL:HG13	2:M:303:PHE:N	2.32	0.44
2:M:34:VAL:CB	2:M:38:LYS:HG3	2.33	0.44
2:M:64:LEU:HD22	2:M:359:MET:CG	2.43	0.44
2:M:759:THR:N	9:M:9349:HOH:O	2.44	0.44
2:M:906:PHE:CZ	3:N:1067:VAL:HA	2.52	0.44
3:N:1109:GLU:CG	3:N:1201:CYS:HA	2.38	0.44
3:N:141:ILE:HD12	3:N:141:ILE:N	2.26	0.44
3:N:42:ASP:HB2	9:N:9477:HOH:O	2.16	0.44
3:N:472:ALA:HA	9:N:9220:HOH:O	2.18	0.44
3:N:130:SER:HA	3:N:572:ARG:HH12	1.82	0.44
3:N:689:ASP:HB3	9:O:1346:HOH:O	2.17	0.44
3:N:724:GLN:HA	9:N:9508:HOH:O	2.17	0.44
3:N:893:GLU:O	3:N:896:ALA:HB3	2.17	0.44
5:P:287:THR:CG2	5:P:289:GLU:HB2	2.43	0.44
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.52	0.44
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.46	0.44
1:B:206:THR:CG2	1:B:209:GLU:H	2.29	0.44
2:C:147:TYR:HE2	2:C:330:ASN:OD1	1.99	0.44
2:C:439:CYS:SG	2:C:540:PHE:HB3	2.57	0.44
2:C:327:HIS:HE2	2:C:492:ASP:CG	2.21	0.44
2:C:492:ASP:HB3	2:C:518:LYS:HD3	1.99	0.44
2:C:65:VAL:HG12	2:C:67:ASP:OD1	2.16	0.44
2:C:742:VAL:HG12	2:C:743:VAL:N	2.31	0.44
2:C:798:GLY:H	2:C:827:VAL:HG11	1.81	0.44
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.16	0.44
3:D:1068:LEU:O	3:D:1069:GLU:C	2.55	0.44
3:D:1110:ALA:HB1	9:D:2073:HOH:O	2.17	0.44
3:D:1498:ALA:HA	9:E:9588:HOH:O	2.17	0.44
3:D:186:VAL:HG13	3:D:187:LYS:N	2.32	0.44
3:D:881:LEU:HD11	3:D:884:ARG:HH21	1.81	0.44
3:D:789:LEU:HD22	3:D:882:PHE:CE1	2.52	0.44
4:E:13:VAL:HG11	4:E:19:LEU:HB2	1.99	0.44
4:E:85:LEU:HA	9:E:9561:HOH:O	2.17	0.44
5:F:300:ASP:O	5:F:304:VAL:HG23	2.17	0.44
1:K:92:PRO:HB2	9:K:1355:HOH:O	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:132:LEU:HD22	9:L:4720:HOH:O	2.17	0.44
2:M:119:PRO:HB2	9:M:9763:HOH:O	2.16	0.44
2:M:224:GLU:HB3	2:M:227:PHE:CD1	2.52	0.44
2:M:436:GLY:O	2:M:469:THR:HB	2.17	0.44
9:K:2274:HOH:O	2:M:865:THR:HG22	2.16	0.44
2:M:918:LEU:HD12	2:M:918:LEU:HA	1.85	0.44
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.57	0.44
3:N:427:VAL:HG13	9:N:9378:HOH:O	2.16	0.44
3:N:452:ILE:HG21	9:N:9295:HOH:O	2.17	0.44
3:N:549:ASN:ND2	5:P:254:GLN:HE21	2.16	0.44
3:N:712:GLY:HA3	9:N:2395:HOH:O	2.16	0.44
1:B:169:ALA:HB1	1:B:171:PHE:CE2	2.52	0.44
1:B:86:VAL:HG23	9:B:9660:HOH:O	2.17	0.44
2:C:127:PHE:O	2:C:133:ASP:HA	2.17	0.44
2:C:209:ARG:O	2:C:213:ALA:HB2	2.17	0.44
2:C:254:VAL:HG22	2:C:258:TYR:HE1	1.81	0.44
2:C:480:THR:HG22	2:C:482:GLU:H	1.83	0.44
2:C:516:ARG:NH1	3:D:1068:LEU:HD22	2.32	0.44
2:C:631:SER:HB3	2:C:637:LEU:HD22	2.00	0.44
2:C:816:LYS:O	2:C:819:VAL:HB	2.18	0.44
2:C:926:PHE:O	2:C:929:ARG:HB2	2.17	0.44
2:C:930:LYS:HD3	2:C:960:GLU:OE1	2.18	0.44
3:D:1344:VAL:HG11	3:D:1421:LEU:HD22	2.00	0.44
3:D:210:ARG:HG3	9:D:9645:HOH:O	2.17	0.44
3:D:422:ALA:O	3:D:427:VAL:HG21	2.18	0.44
3:D:450:TYR:HB3	9:D:2159:HOH:O	2.17	0.44
3:D:500:ARG:HH22	3:D:1388:ARG:NE	2.15	0.44
3:D:814:ALA:HB2	9:D:2210:HOH:O	2.17	0.44
5:F:291:ILE:HG23	5:F:292:ALA:N	2.32	0.44
1:K:12:THR:HG21	9:K:1709:HOH:O	2.16	0.44
1:K:133:GLU:N	9:K:1268:HOH:O	2.50	0.44
2:M:418:LEU:HB2	9:M:2268:HOH:O	2.16	0.44
2:M:928:LYS:HE2	2:M:928:LYS:HA	1.99	0.44
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.48	0.44
3:N:500:ARG:NH1	3:N:500:ARG:HG3	2.33	0.44
3:N:864:VAL:HG12	3:N:865:THR:H	1.82	0.44
3:N:983:LEU:HD13	9:N:9836:HOH:O	2.17	0.44
5:P:113:ILE:HD12	9:P:4659:HOH:O	2.18	0.44
2:M:1015:LEU:HA	5:P:335:ASP:HB2	1.99	0.44
1:A:95:GLN:HB3	9:A:9602:HOH:O	2.17	0.44
9:A:9736:HOH:O	1:B:156:HIS:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:206:THR:HG22	1:B:209:GLU:CG	2.48	0.44
1:B:79:ILE:HA	1:B:82:LEU:HD12	2.00	0.44
2:C:188:LYS:C	2:C:188:LYS:HD3	2.37	0.44
2:C:321:GLU:HG3	9:C:2328:HOH:O	2.18	0.44
2:C:45:GLN:NE2	9:C:2296:HOH:O	2.49	0.44
2:C:560:MET:O	2:C:564:MET:HB2	2.17	0.44
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.47	0.44
2:C:899:GLN:HA	9:C:2768:HOH:O	2.17	0.44
3:D:1341:PRO:HA	3:D:1344:VAL:CG2	2.46	0.44
3:D:1382:THR:O	3:D:1384:PRO:HD3	2.17	0.44
3:D:1393:GLN:HB3	9:D:9676:HOH:O	2.17	0.44
3:D:186:VAL:HG23	3:D:211:VAL:CG1	2.48	0.44
3:D:907:GLU:O	3:D:911:LEU:HD13	2.18	0.44
4:E:50:THR:HG23	9:E:9582:HOH:O	2.16	0.44
1:K:83:LYS:HD3	9:K:2976:HOH:O	2.18	0.44
1:L:113:ASP:HA	9:L:1552:HOH:O	2.18	0.44
1:K:30:ARG:HH22	1:L:155:LYS:NZ	2.16	0.44
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.82	0.44
2:M:1095:LEU:HD23	3:N:582:LEU:HD23	1.99	0.44
2:M:21:ILE:HD12	2:M:21:ILE:N	2.30	0.44
2:M:432:ARG:HG3	2:M:432:ARG:HH11	1.82	0.44
2:M:49:ARG:HB2	9:M:9976:HOH:O	2.17	0.44
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.47	0.44
2:M:598:GLU:N	9:M:9609:HOH:O	2.50	0.44
2:M:777:ILE:HG22	2:M:778:PHE:N	2.31	0.44
2:M:8:ARG:HG3	9:M:9876:HOH:O	2.17	0.44
2:M:860:HIS:CE1	2:M:977:GLY:HA2	2.51	0.44
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.18	0.44
3:N:1277:ILE:CG2	3:N:1278:ASP:N	2.80	0.44
3:N:192:ALA:HB3	9:N:9235:HOH:O	2.18	0.44
3:N:513:ILE:H	3:N:513:ILE:HG13	1.65	0.44
3:N:101:HIS:CD2	3:N:582:LEU:HD22	2.52	0.44
3:N:619:LEU:HD23	3:N:619:LEU:O	2.18	0.44
3:N:767:HIS:C	3:N:768:ASN:HD22	2.20	0.44
3:N:808:THR:HB	3:N:809:PRO:HD3	1.98	0.44
3:N:796:ARG:NE	3:N:828:LYS:HZ3	2.15	0.44
2:M:1067:TYR:CD2	5:P:345:ALA:HB2	2.53	0.44
1:B:10:VAL:HA	9:B:9606:HOH:O	2.17	0.44
2:C:811:PRO:HD2	2:C:813:VAL:HG13	1.99	0.44
3:D:470:LEU:HB3	3:D:503:LEU:HD11	2.00	0.44
3:D:835:SER:HB3	9:D:2297:HOH:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:87:ARG:HD2	3:D:88:TYR:CE2	2.53	0.44
4:E:23:VAL:HG11	9:E:9593:HOH:O	2.18	0.44
1:K:189:ARG:HG2	1:K:190:THR:N	2.33	0.44
1:K:31:GLY:N	1:K:193:ASP:OD1	2.51	0.44
1:K:42:ARG:CZ	9:K:4396:HOH:O	2.65	0.44
1:L:77:GLU:HG3	9:N:2080:HOH:O	2.18	0.44
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.17	0.44
2:M:31:GLN:HE21	2:M:31:GLN:HB3	1.50	0.44
2:M:492:ASP:HA	9:M:9579:HOH:O	2.18	0.44
2:M:563:ASN:HA	9:M:9240:HOH:O	2.16	0.44
2:M:676:ILE:HG22	2:M:988:VAL:O	2.17	0.44
2:M:799:ILE:O	2:M:801:VAL:HG13	2.17	0.44
2:M:860:HIS:HA	2:M:866:PRO:HA	1.99	0.44
2:M:893:ALA:O	2:M:897:LEU:HB2	2.16	0.44
3:N:1417:TRP:HD1	9:N:9725:HOH:O	2.00	0.44
3:N:38:LYS:HG3	9:N:9685:HOH:O	2.16	0.44
3:N:768:ASN:HD22	3:N:768:ASN:N	2.15	0.44
3:N:85:VAL:O	3:N:89:ARG:HG3	2.18	0.44
4:O:70:THR:HG22	4:O:71:GLY:H	1.83	0.44
5:P:266:GLU:HB2	5:P:270:LYS:HZ3	1.80	0.44
1:B:26:GLU:CB	1:B:194:LYS:HG3	2.48	0.44
2:C:1021:LEU:HD13	5:F:331:ASP:O	2.18	0.44
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.52	0.44
2:C:584:GLU:HB2	2:C:666:LEU:H	1.83	0.44
2:C:607:ASP:HB2	2:C:610:ARG:H	1.81	0.44
2:C:639:GLN:HB3	2:C:656:ALA:HB1	2.00	0.44
3:D:1470:ARG:HG2	3:D:1471:LEU:N	2.32	0.44
3:D:168:THR:HG22	3:D:170:PRO:HD3	2.00	0.44
3:D:563:PRO:HG3	5:F:188:ILE:CG2	2.47	0.44
3:D:986:ARG:HB2	3:D:986:ARG:HH11	1.83	0.44
4:E:91:ARG:CZ	9:E:9574:HOH:O	2.66	0.44
1:K:97:VAL:HG11	1:K:120:VAL:HG21	1.99	0.44
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.83	0.44
1:L:14:ARG:HH22	1:L:24:VAL:CG2	2.31	0.44
1:L:80:LEU:HD13	3:N:842:VAL:CG1	2.42	0.44
2:M:288:ARG:HH12	2:M:289:THR:HG23	1.82	0.44
2:M:338:GLU:HA	2:M:341:THR:CG2	2.44	0.44
2:M:545:ASN:HD21	2:M:905:ILE:HG13	1.82	0.44
3:N:1162:GLU:HB3	9:N:9990:HOH:O	2.18	0.44
3:N:1384:PRO:HG3	3:N:1389:LEU:N	2.33	0.44
3:N:138:LYS:H	3:N:138:LYS:CD	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:12:LEU:CD2	3:N:13:ALA:H	2.30	0.44
3:N:1487:VAL:CG1	3:N:1488:ASP:N	2.81	0.44
3:N:18:ILE:HG21	3:N:516:ALA:O	2.17	0.44
3:N:441:ARG:HD2	9:N:9328:HOH:O	2.18	0.44
3:N:895:VAL:O	3:N:899:LEU:HD12	2.17	0.44
3:N:994:GLN:HE21	3:N:998:GLU:CD	2.20	0.44
5:P:339:PRO:HA	9:P:1420:HOH:O	2.18	0.44
2:C:1052:MET:HG3	3:D:623:VAL:HG21	1.98	0.44
2:C:250:ARG:HD2	9:C:2643:HOH:O	2.17	0.44
2:C:456:ALA:HA	2:C:541:SER:HA	1.98	0.44
2:C:517:ARG:O	2:C:519:GLY:N	2.51	0.44
2:C:913:GLU:HB3	9:C:2225:HOH:O	2.17	0.44
3:D:1044:LEU:N	9:D:2029:HOH:O	2.51	0.44
3:D:116:LEU:HB3	3:D:118:LEU:CD1	2.44	0.44
3:D:1101:VAL:CG1	3:D:1427:SER:HB3	2.46	0.44
3:D:36:THR:O	3:D:38:LYS:N	2.50	0.44
3:D:130:SER:CB	3:D:572:ARG:HH12	2.30	0.44
3:D:697:GLY:HA3	4:E:59:ASN:OD1	2.17	0.44
3:D:82:LYS:O	3:D:84:ILE:N	2.51	0.44
3:D:937:TYR:HA	3:D:940:THR:OG1	2.18	0.44
3:D:964:LEU:O	3:D:968:ASP:HB2	2.18	0.44
4:E:51:LEU:HD21	9:E:9611:HOH:O	2.17	0.44
5:F:111:GLU:O	5:F:115:LYS:HG3	2.18	0.44
1:K:72:LYS:HZ1	2:M:644:VAL:HG12	1.82	0.44
1:L:176:ARG:HH22	3:N:884:ARG:HE	1.65	0.44
2:M:1081:VAL:HB	2:M:1086:ARG:NE	2.32	0.44
2:M:303:PHE:HZ	9:M:2121:HOH:O	2.00	0.44
2:M:872:ASN:OD1	2:M:874:LEU:N	2.47	0.44
3:N:1145:TYR:HA	9:N:2585:HOH:O	2.17	0.44
3:N:1192:LEU:N	9:N:9676:HOH:O	2.50	0.44
3:N:1397:LYS:HG2	9:N:2363:HOH:O	2.17	0.44
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.47	0.44
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.99	0.44
3:N:396:VAL:HG13	3:N:447:VAL:HA	2.00	0.44
3:N:566:ILE:HG12	5:P:217:ASN:HD22	1.83	0.44
3:N:606:ILE:HG21	9:N:2854:HOH:O	2.18	0.44
3:N:70:GLY:C	3:N:71:LYS:HD2	2.38	0.44
4:O:70:THR:HG22	4:O:71:GLY:N	2.33	0.44
2:C:129:ILE:HG22	2:C:130:ASN:H	1.83	0.44
2:C:167:LYS:C	2:C:169:GLY:H	2.21	0.44
2:C:365:ASP:O	2:C:367:LEU:HD23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:440:PRO:HD2	9:C:2264:HOH:O	2.18	0.44
2:C:720:GLU:HA	2:C:759:THR:O	2.18	0.44
2:C:749:VAL:HG23	2:C:749:VAL:O	2.18	0.44
2:C:789:SER:HB2	9:C:9581:HOH:O	2.18	0.44
2:C:823:VAL:HG22	9:C:9907:HOH:O	2.18	0.44
2:C:896:PHE:HB2	9:C:2761:HOH:O	2.18	0.44
2:C:929:ARG:NH1	2:C:929:ARG:HG3	2.33	0.44
3:D:953:ASP:OD1	3:D:1019:PRO:HG2	2.18	0.44
3:D:1036:ARG:NH1	9:D:9667:HOH:O	2.51	0.44
3:D:1197:ARG:HG3	3:D:1198:TYR:N	2.33	0.44
3:D:1244:GLY:HA3	9:D:2849:HOH:O	2.17	0.44
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.48	0.44
3:D:395:VAL:O	3:D:395:VAL:HG12	2.18	0.44
5:F:187:LEU:HD23	5:F:191:ASN:HD22	1.82	0.44
5:F:259:ARG:NH1	5:F:259:ARG:HG2	2.32	0.44
5:F:315:VAL:HG12	5:F:316:SER:H	1.83	0.44
5:F:353:GLU:HA	9:F:9676:HOH:O	2.17	0.44
1:K:227:ASN:HB2	9:K:1432:HOH:O	2.17	0.44
2:M:130:ASN:HB3	9:M:9773:HOH:O	2.18	0.44
2:M:272:ALA:HB1	9:M:9251:HOH:O	2.17	0.44
2:M:31:GLN:NE2	2:M:34:VAL:HG23	2.33	0.44
2:M:50:GLU:OE2	2:M:345:ARG:HD2	2.18	0.44
2:M:31:GLN:OE1	2:M:40:GLU:HB2	2.16	0.44
2:M:588:VAL:HG23	2:M:596:TYR:OH	2.18	0.44
2:M:747:ALA:HB1	9:M:9356:HOH:O	2.17	0.44
2:M:798:GLY:H	2:M:827:VAL:HG11	1.82	0.44
3:N:1147:ARG:HD2	3:N:1188:VAL:CG2	2.48	0.44
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.48	0.44
3:N:1459:LEU:HD13	3:N:1465:ASN:HA	1.99	0.44
3:N:196:VAL:HG13	3:N:202:VAL:HG13	1.99	0.44
3:N:205:TYR:CD1	3:N:205:TYR:N	2.86	0.44
5:P:361:LEU:HD21	5:P:408:LEU:HB2	1.99	0.44
1:A:85:LEU:HD12	1:A:124:ASN:HB3	2.00	0.43
1:B:85:LEU:HD12	1:B:124:ASN:HB3	2.00	0.43
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.39	0.43
2:C:610:ARG:HD2	9:C:9662:HOH:O	2.18	0.43
2:C:773:LEU:HA	9:C:9824:HOH:O	2.18	0.43
2:C:774:LEU:O	2:C:777:ILE:HB	2.18	0.43
2:C:781:LYS:HD2	9:C:9791:HOH:O	2.17	0.43
2:C:860:HIS:HA	2:C:866:PRO:HA	1.99	0.43
2:C:941:VAL:O	2:C:944:LEU:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1136:LYS:HB2	3:D:1139:ASP:OD2	2.18	0.43
3:D:1314:LYS:HE2	9:D:3278:HOH:O	2.18	0.43
3:D:1394:VAL:CG2	3:D:1397:LYS:HD2	2.47	0.43
3:D:154:THR:HG22	3:D:155:ASP:N	2.32	0.43
3:D:34:TYR:CD1	3:D:35:ARG:N	2.86	0.43
3:D:562:ALA:CB	3:D:567:ILE:HD11	2.40	0.43
3:D:653:PHE:CD1	3:D:653:PHE:N	2.86	0.43
3:D:767:HIS:C	3:D:768:ASN:HD22	2.22	0.43
3:D:966:GLU:HG3	9:D:2760:HOH:O	2.17	0.43
4:E:29:GLN:HG3	9:E:9594:HOH:O	2.18	0.43
5:F:113:ILE:HG23	5:F:127:ILE:CB	2.46	0.43
5:F:288:TYR:CE2	5:F:305:GLU:HA	2.52	0.43
2:M:192:PRO:HB3	2:M:194:VAL:HG23	1.99	0.43
2:M:292:ARG:HE	2:M:299:LYS:HZ2	1.65	0.43
2:M:286:SER:HB3	2:M:299:LYS:CE	2.47	0.43
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.76	0.43
2:M:768:THR:HG23	9:M:9276:HOH:O	2.17	0.43
2:M:918:LEU:HD23	2:M:968:LEU:O	2.17	0.43
3:N:126:VAL:HG23	9:N:9692:HOH:O	2.18	0.43
3:N:1326:THR:HG21	9:N:2275:HOH:O	2.18	0.43
3:N:1412:LYS:C	3:N:1414:PRO:HD3	2.39	0.43
3:N:142:LEU:HB3	9:N:9595:HOH:O	2.17	0.43
3:N:172:PRO:CG	3:N:178:LEU:HD22	2.40	0.43
3:N:65:ARG:HD3	3:N:66:GLN:N	2.31	0.43
3:N:729:HIS:CE1	3:N:935:LYS:HD3	2.52	0.43
3:N:984:THR:HB	3:N:987:GLU:OE1	2.18	0.43
5:P:222:ARG:HD2	5:P:242:TRP:CE3	2.54	0.43
2:C:183:SER:HA	2:C:190:LYS:HB2	1.99	0.43
2:C:250:ARG:HH21	2:C:254:VAL:N	2.14	0.43
2:C:431:HIS:CD2	2:C:433:THR:H	2.36	0.43
2:C:614:ARG:HG3	9:C:9611:HOH:O	2.18	0.43
3:D:1063:GLU:HG2	3:D:1064:GLY:N	2.29	0.43
3:D:1374:GLN:OE1	3:D:1377:LYS:HD3	2.18	0.43
3:D:1499:ARG:HB3	9:D:2661:HOH:O	2.18	0.43
3:D:395:VAL:HB	9:D:9923:HOH:O	2.18	0.43
3:D:1209:LEU:HD11	4:E:16:LYS:NZ	2.33	0.43
4:E:70:THR:HG22	4:E:71:GLY:N	2.33	0.43
5:F:164:LYS:HD2	9:F:9652:HOH:O	2.18	0.43
5:F:207:LEU:HD12	5:F:212:LEU:CD2	2.48	0.43
5:F:404:ALA:O	5:F:408:LEU:HB2	2.19	0.43
1:K:11:PHE:HB2	9:L:2122:HOH:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:106:PRO:HA	1:L:132:LEU:O	2.18	0.43
1:L:78:ILE:O	1:L:82:LEU:HG	2.18	0.43
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.83	0.43
2:M:1015:LEU:HD12	5:P:333:ILE:CG2	2.48	0.43
2:M:1031:ARG:HA	3:N:621:LYS:O	2.17	0.43
2:M:208:ALA:HB3	2:M:209:ARG:HH21	1.83	0.43
2:M:243:ARG:HB3	9:M:9892:HOH:O	2.18	0.43
2:M:444:PRO:CD	2:M:452:ILE:HG13	2.48	0.43
2:M:554:ASP:OD2	2:M:556:ASN:HB3	2.18	0.43
3:N:1046:GLN:CA	3:N:1052:THR:HA	2.37	0.43
3:N:1303:TYR:HA	9:N:9699:HOH:O	2.18	0.43
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.18	0.43
3:N:471:GLU:HG2	9:N:9786:HOH:O	2.17	0.43
3:N:647:ARG:HH12	3:N:680:GLN:HG3	1.82	0.43
3:N:759:ALA:O	3:N:763:MET:HB3	2.18	0.43
3:N:822:ALA:HB2	9:N:9525:HOH:O	2.18	0.43
3:N:962:GLN:HA	9:N:9569:HOH:O	2.17	0.43
3:N:995:LEU:HA	3:N:998:GLU:OE1	2.18	0.43
5:P:192:LEU:HB3	9:P:4506:HOH:O	2.18	0.43
1:A:97:VAL:HG11	1:A:120:VAL:HG21	1.99	0.43
1:B:83:LYS:HE2	1:B:167:VAL:HG12	2.00	0.43
2:C:115:LEU:HD12	2:C:378:LEU:CD2	2.48	0.43
2:C:12:VAL:CG1	2:C:534:VAL:HG13	2.48	0.43
2:C:244:PRO:HD2	2:C:245:GLY:N	2.23	0.43
2:C:840:ALA:HB2	2:C:846:LYS:HG3	1.99	0.43
2:C:971:LYS:HG2	2:C:988:VAL:N	2.33	0.43
3:D:1363:LEU:HD12	3:D:1363:LEU:O	2.19	0.43
3:D:1406:ARG:NE	3:D:1412:LYS:HB3	2.33	0.43
3:D:1425:THR:HB	9:D:9596:HOH:O	2.17	0.43
3:D:1481:VAL:HG12	4:E:21:VAL:HG21	1.99	0.43
3:D:719:VAL:HG11	9:D:9572:HOH:O	2.17	0.43
4:E:48:MET:HB2	4:E:54:LEU:HD12	2.01	0.43
1:K:112:ARG:NH1	9:K:3292:HOH:O	2.50	0.43
1:K:24:VAL:HG22	1:K:196:THR:OG1	2.18	0.43
1:K:30:ARG:HD2	9:K:1388:HOH:O	2.17	0.43
1:K:1:MET:O	1:K:6:LEU:HD22	2.18	0.43
2:M:204:GLN:HE22	2:M:225:SER:HA	1.84	0.43
2:M:569:VAL:O	2:M:571:LEU:HD12	2.17	0.43
2:M:597:ALA:O	2:M:652:GLY:N	2.50	0.43
2:M:981:GLU:HA	9:M:9308:HOH:O	2.19	0.43
3:N:380:GLU:HA	9:N:9923:HOH:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:660:LYS:HD2	3:N:694:VAL:HG22	1.99	0.43
3:N:759:ALA:HA	3:N:763:MET:HE1	2.00	0.43
3:N:873:LEU:HD23	9:N:2208:HOH:O	2.18	0.43
4:O:53:GLY:HA3	9:O:4631:HOH:O	2.17	0.43
5:P:289:GLU:HG2	9:P:4194:HOH:O	2.18	0.43
5:P:94:LEU:H	5:P:98:GLU:HB2	1.83	0.43
1:B:17:GLY:C	1:B:19:GLU:H	2.21	0.43
2:C:336:VAL:HA	2:C:339:LEU:HD12	2.00	0.43
2:C:802:ARG:HB2	9:C:9590:HOH:O	2.17	0.43
2:C:869:VAL:HG22	2:C:871:LEU:CD1	2.48	0.43
2:C:881:ASN:HD22	2:C:881:ASN:N	2.12	0.43
3:D:107:ASP:O	3:D:108:VAL:C	2.56	0.43
3:D:123:LEU:O	3:D:126:VAL:HB	2.19	0.43
3:D:1310:ARG:HE	3:D:1310:ARG:HB2	1.69	0.43
3:D:193:PRO:HG3	9:D:3106:HOH:O	2.17	0.43
1:K:60:ASP:HA	9:K:3216:HOH:O	2.19	0.43
2:M:999:HIS:HB3	2:M:1003:ASP:OD2	2.18	0.43
2:M:103:LYS:HG3	9:M:2256:HOH:O	2.19	0.43
2:M:1105:LYS:HE3	9:M:9940:HOH:O	2.17	0.43
2:M:163:ILE:O	2:M:163:ILE:HG23	2.17	0.43
2:M:250:ARG:HB2	2:M:253:ALA:CB	2.49	0.43
2:M:305:PRO:O	2:M:308:ARG:HB3	2.18	0.43
2:M:498:GLN:CG	2:M:516:ARG:HE	2.31	0.43
2:M:93:PRO:HB2	9:M:9852:HOH:O	2.19	0.43
3:N:1147:ARG:H	3:N:1166:LEU:HG	1.83	0.43
5:P:276:ARG:HD2	9:P:2013:HOH:O	2.16	0.43
2:C:1034:GLU:HG3	2:C:1035:MET:H	1.83	0.43
2:C:139:GLN:HG2	2:C:140:ILE:H	1.83	0.43
2:C:144:PRO:HA	2:C:163:ILE:O	2.19	0.43
2:C:256:TYR:HA	9:C:2199:HOH:O	2.17	0.43
2:C:27:ARG:HG3	9:C:9641:HOH:O	2.19	0.43
2:C:73:LEU:HB2	9:C:2521:HOH:O	2.19	0.43
3:D:1197:ARG:HG2	9:D:2561:HOH:O	2.18	0.43
3:D:1302:GLU:HG2	9:D:2309:HOH:O	2.18	0.43
3:D:1397:LYS:HE2	9:D:3297:HOH:O	2.17	0.43
3:D:460:ALA:O	3:D:464:LEU:HG	2.18	0.43
3:D:474:GLU:HG3	3:D:500:ARG:NE	2.32	0.43
3:D:523:ASP:HA	9:D:9853:HOH:O	2.18	0.43
3:D:850:LEU:O	3:D:853:VAL:HB	2.18	0.43
3:D:925:GLU:O	3:D:928:ALA:HB3	2.18	0.43
3:D:994:GLN:HE21	3:D:998:GLU:CD	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:45:ARG:HB3	9:E:9659:HOH:O	2.18	0.43
5:F:260:ILE:HG12	5:F:264:MET:HB2	2.01	0.43
5:F:273:ARG:HB3	9:F:9601:HOH:O	2.18	0.43
2:C:1014:SER:HA	5:F:333:ILE:O	2.18	0.43
1:K:139:ASN:HB2	9:K:2209:HOH:O	2.18	0.43
1:K:176:ARG:NH1	9:K:2274:HOH:O	2.50	0.43
2:M:1001:VAL:HG13	9:M:9394:HOH:O	2.17	0.43
2:M:14:PRO:HG3	9:M:2533:HOH:O	2.18	0.43
2:M:54:ILE:HD11	2:M:56:GLU:OE2	2.18	0.43
2:M:575:GLN:HA	2:M:662:GLU:HG3	2.00	0.43
2:M:811:PRO:HG3	9:M:9687:HOH:O	2.17	0.43
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.18	0.43
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.34	0.43
3:N:30:GLU:HB3	3:N:40:GLU:CB	2.48	0.43
3:N:441:ARG:O	3:N:443:VAL:N	2.47	0.43
3:N:719:VAL:O	3:N:721:VAL:HG13	2.18	0.43
3:N:459:GLU:OE2	5:P:144:ILE:HD12	2.19	0.43
5:P:253:ASP:HA	5:P:259:ARG:HE	1.83	0.43
5:P:356:LYS:O	5:P:360:LYS:HG2	2.18	0.43
1:B:50:GLY:HA2	9:B:9569:HOH:O	2.18	0.43
1:B:86:VAL:HA	9:B:9736:HOH:O	2.18	0.43
2:C:218:VAL:HB	9:C:2262:HOH:O	2.18	0.43
2:C:897:LEU:HB2	9:C:9860:HOH:O	2.17	0.43
2:C:671:ASN:ND2	2:C:993:PHE:HD2	2.16	0.43
3:D:101:HIS:CD2	3:D:103:TRP:HB2	2.53	0.43
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.19	0.43
3:D:209:ARG:HB3	3:D:210:ARG:H	1.62	0.43
3:D:380:GLU:O	3:D:382:GLU:N	2.51	0.43
3:D:442:ASN:HA	9:D:2613:HOH:O	2.19	0.43
3:D:101:HIS:CD2	3:D:582:LEU:HD13	2.53	0.43
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.36	0.43
4:E:50:THR:HA	9:E:9570:HOH:O	2.19	0.43
5:F:329:TYR:O	5:F:332:PHE:HB2	2.19	0.43
5:F:387:GLY:HA2	9:F:9617:HOH:O	2.18	0.43
5:F:406:ARG:HA	5:F:409:LYS:HD3	2.01	0.43
1:K:83:LYS:HZ1	1:K:168:ASP:HB2	1.84	0.43
2:M:1086:ARG:NH1	9:M:9565:HOH:O	2.52	0.43
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.89	0.43
2:M:627:ARG:HD3	9:M:2410:HOH:O	2.18	0.43
2:M:755:LEU:HD21	2:M:792:VAL:HG22	2.01	0.43
3:N:1080:GLY:O	3:N:1084:THR:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1161:GLU:HB3	9:N:9583:HOH:O	2.17	0.43
3:N:1320:GLU:N	3:N:1323:GLN:NE2	2.67	0.43
3:N:1357:ARG:HB3	9:N:2893:HOH:O	2.18	0.43
3:N:14:SER:OG	3:N:17:LYS:HB2	2.19	0.43
3:N:422:ALA:HB2	9:N:9378:HOH:O	2.18	0.43
3:N:796:ARG:NE	3:N:862:ASP:OD2	2.51	0.43
3:N:812:ALA:O	3:N:816:HIS:HB2	2.19	0.43
3:N:863:VAL:HA	9:N:9938:HOH:O	2.18	0.43
5:P:288:TYR:HE2	5:P:305:GLU:HA	1.84	0.43
1:A:201:THR:HG22	1:A:203:GLY:H	1.82	0.43
2:C:165:LEU:HB2	9:C:2287:HOH:O	2.18	0.43
2:C:188:LYS:HE2	9:C:2731:HOH:O	2.18	0.43
2:C:358:ARG:HH12	2:C:374:ASN:CG	2.21	0.43
2:C:474:VAL:HB	2:C:479:VAL:HG12	1.99	0.43
2:C:534:VAL:N	2:C:538:GLN:NE2	2.67	0.43
2:C:95:TYR:HE2	9:C:9699:HOH:O	2.01	0.43
3:D:1096:ARG:NH1	3:D:1096:ARG:HB2	2.33	0.43
3:D:231:VAL:HA	3:D:378:ILE:CB	2.49	0.43
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.49	0.43
3:D:484:PRO:HG3	9:D:3258:HOH:O	2.18	0.43
3:D:806:PHE:N	9:D:2133:HOH:O	2.50	0.43
3:D:960:LYS:HG2	3:D:964:LEU:CD1	2.49	0.43
3:D:968:ASP:O	3:D:971:LEU:HB3	2.19	0.43
9:D:2199:HOH:O	4:E:58:PRO:HA	2.19	0.43
4:E:45:ARG:HH22	4:E:72:ARG:HH21	1.66	0.43
5:F:142:ARG:HG3	9:F:2143:HOH:O	2.19	0.43
5:F:153:PRO:O	5:F:157:GLU:HG3	2.18	0.43
9:D:2183:HOH:O	5:F:349:LEU:HD13	2.19	0.43
5:F:402:ASN:HB3	9:F:9689:HOH:O	2.17	0.43
5:F:419:ARG:HA	9:F:9727:HOH:O	2.18	0.43
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.53	0.43
1:L:47:SER:CB	1:L:217:ILE:HD13	2.48	0.43
1:L:227:ASN:HB2	9:L:1651:HOH:O	2.19	0.43
1:L:55:SER:HB2	1:L:158:ILE:HB	2.01	0.43
2:M:1085:PHE:HE1	2:M:1111:ILE:HG21	1.83	0.43
3:N:1103:HIS:HA	3:N:1223:ILE:HD12	2.00	0.43
3:N:137:PRO:HG2	9:N:2197:HOH:O	2.18	0.43
3:N:19:ARG:HH21	3:N:94:GLU:CD	2.21	0.43
3:N:447:VAL:HG23	3:N:448:GLU:N	2.34	0.43
3:N:684:LYS:HE3	9:N:2460:HOH:O	2.18	0.43
3:N:792:ILE:HG23	3:N:793:THR:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:6:ILE:HG23	4:O:7:ASP:N	2.33	0.43
5:P:333:ILE:HA	5:P:334:PRO:HD3	1.86	0.43
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.99	0.43
2:C:1:MET:N	9:C:9648:HOH:O	2.52	0.43
2:C:274:ARG:N	2:C:288:ARG:HH22	2.17	0.43
2:C:396:ASP:OD1	2:C:402:SER:HB3	2.18	0.43
2:C:279:GLU:HG3	2:C:493:ARG:NH2	2.33	0.43
2:C:520:GLU:HB2	9:C:9578:HOH:O	2.19	0.43
2:C:607:ASP:C	2:C:609:ASN:N	2.71	0.43
2:C:64:LEU:HB2	2:C:359:MET:SD	2.59	0.43
2:C:679:PHE:C	3:D:943:THR:HG22	2.38	0.43
2:C:861:LEU:HD21	2:C:925:TYR:CE1	2.54	0.43
3:D:1431:THR:HB	3:D:1432:LYS:HE3	1.99	0.43
3:D:155:ASP:HB3	9:D:2347:HOH:O	2.18	0.43
4:E:23:VAL:HG13	4:E:24:ALA:N	2.34	0.43
4:E:68:LEU:HA	4:E:73:LEU:HD12	2.00	0.43
5:F:291:ILE:CG2	5:F:304:VAL:HG21	2.48	0.43
2:C:773:LEU:HD21	5:F:354:LEU:HD11	2.00	0.43
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.54	0.43
1:K:88:ARG:NH2	9:K:1273:HOH:O	2.51	0.43
1:L:152:PRO:HB2	1:L:155:LYS:HG3	2.01	0.43
2:M:1086:ARG:NH1	3:N:88:TYR:CZ	2.87	0.43
2:M:21:ILE:CD1	2:M:21:ILE:H	2.30	0.43
2:M:42:VAL:HG13	2:M:268:ASP:OD2	2.18	0.43
2:M:750:LYS:HG2	9:M:2076:HOH:O	2.18	0.43
2:M:790:LEU:HA	2:M:790:LEU:HD12	1.91	0.43
2:M:854:PRO:HB2	2:M:856:GLU:HB2	2.00	0.43
2:M:958:THR:HB	9:M:2134:HOH:O	2.18	0.43
3:N:1166:LEU:N	3:N:1166:LEU:HD23	2.27	0.43
2:M:1049:LEU:HD23	3:N:1472:ILE:HD11	2.00	0.43
3:N:227:LEU:HA	9:P:1787:HOH:O	2.18	0.43
3:N:380:GLU:O	3:N:382:GLU:N	2.49	0.43
3:N:549:ASN:HD22	3:N:549:ASN:HA	1.65	0.43
3:N:601:ARG:CZ	3:N:613:ARG:HH21	2.31	0.43
4:O:47:LYS:C	4:O:54:LEU:HD13	2.39	0.43
5:P:138:SER:N	9:P:2295:HOH:O	2.52	0.43
5:P:309:LYS:HG3	9:P:5453:HOH:O	2.19	0.43
5:P:324:GLU:O	5:P:325:LYS:HD3	2.18	0.43
5:P:342:VAL:HG23	5:P:343:ASP:N	2.34	0.43
5:P:411:HIS:HB3	9:P:2127:HOH:O	2.17	0.43
5:P:83:GLN:O	5:P:86:HIS:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:LEU:HD11	9:A:9576:HOH:O	2.18	0.43
1:A:10:VAL:O	1:A:12:THR:HG23	2.18	0.43
1:B:1:MET:SD	1:B:5:LYS:HG2	2.59	0.43
2:C:1083:GLU:OE1	2:C:1083:GLU:HA	2.17	0.43
2:C:549:PHE:HE2	2:C:887:GLU:HA	1.83	0.43
3:D:1047:LYS:HG2	3:D:1053:PHE:CZ	2.54	0.43
3:D:414:ARG:HH11	3:D:414:ARG:HG3	1.82	0.43
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.47	0.43
3:D:402:PRO:HG2	3:D:444:VAL:HG11	2.01	0.43
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.48	0.43
3:D:965:GLU:O	3:D:968:ASP:HB3	2.18	0.43
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.54	0.43
5:F:100:VAL:HG21	9:F:9872:HOH:O	2.17	0.43
5:F:151:LEU:O	5:F:155:THR:HB	2.19	0.43
5:F:155:THR:HG22	5:F:156:VAL:N	2.33	0.43
2:M:160:ALA:CB	2:M:174:LEU:HD12	2.49	0.43
2:M:172:ILE:HG12	2:M:186:VAL:CG1	2.49	0.43
2:M:397:GLU:C	2:M:399:ASN:N	2.73	0.43
2:M:93:PRO:HG3	9:M:9555:HOH:O	2.19	0.43
3:N:1442:ASN:C	3:N:1442:ASN:HD22	2.22	0.43
3:N:804:LEU:HD12	3:N:806:PHE:H	1.84	0.43
3:N:991:GLN:O	3:N:994:GLN:HB3	2.18	0.43
5:P:410:TYR:O	5:P:413:SER:HB2	2.19	0.43
5:P:93:LEU:HD21	5:P:102:LEU:HD11	2.00	0.43
1:A:41:ARG:HA	1:A:177:VAL:HG11	2.00	0.43
1:B:179:PHE:HB3	1:B:197:LEU:HB3	2.01	0.43
2:C:1002:GLU:HG3	3:D:744:GLN:NE2	2.33	0.43
2:C:1013:TYR:HE1	2:C:1020:PRO:HG3	1.84	0.43
2:C:588:VAL:HG21	2:C:664:GLY:O	2.19	0.43
2:C:884:GLN:HG3	2:C:885:ILE:HD13	2.01	0.43
3:D:1378:TYR:HB2	9:D:9729:HOH:O	2.19	0.43
3:D:138:LYS:NZ	9:D:2617:HOH:O	2.52	0.43
3:D:213:VAL:HG22	9:D:2107:HOH:O	2.17	0.43
3:D:30:GLU:HB3	3:D:40:GLU:CB	2.49	0.43
3:D:401:TYR:N	3:D:402:PRO:HD3	2.34	0.43
3:D:601:ARG:NH2	3:D:613:ARG:HE	2.17	0.43
3:D:62:LYS:HA	9:D:2796:HOH:O	2.19	0.43
3:D:658:LEU:O	3:D:661:MET:HB2	2.19	0.43
3:D:796:ARG:HD3	3:D:862:ASP:HA	2.00	0.43
4:E:59:ASN:N	9:E:9558:HOH:O	2.52	0.43
5:F:185:GLN:HB3	9:F:9576:HOH:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:25:LEU:HD12	9:L:2122:HOH:O	2.19	0.43
1:L:128:HIS:NE2	1:L:131:THR:HG23	2.34	0.43
1:K:43:ILE:HD11	1:L:35:THR:HG21	2.01	0.43
1:L:70:GLY:HA3	9:L:1193:HOH:O	2.19	0.43
2:M:1020:PRO:HG3	3:N:624:ASP:OD1	2.19	0.43
2:M:166:PRO:HD2	9:M:9325:HOH:O	2.18	0.43
2:M:204:GLN:HG3	9:M:2070:HOH:O	2.19	0.43
2:M:288:ARG:HG3	9:M:9500:HOH:O	2.18	0.43
2:M:308:ARG:HD3	9:M:9332:HOH:O	2.19	0.43
2:M:625:LEU:O	2:M:627:ARG:N	2.52	0.43
2:M:813:VAL:HG23	9:M:9381:HOH:O	2.19	0.43
2:M:855:VAL:CG2	2:M:866:PRO:HG2	2.49	0.43
3:N:107:ASP:O	3:N:108:VAL:C	2.57	0.43
3:N:1098:LEU:N	3:N:1098:LEU:HD12	2.34	0.43
3:N:122:GLU:HB2	9:N:9548:HOH:O	2.17	0.43
3:N:1287:GLU:N	9:N:9657:HOH:O	2.52	0.43
3:N:1412:LYS:HD3	9:N:2853:HOH:O	2.19	0.43
3:N:402:PRO:HG2	3:N:444:VAL:HG11	2.01	0.43
3:N:601:ARG:NH1	3:N:605:ASP:HB3	2.33	0.43
3:N:710:ARG:NH1	9:N:9333:HOH:O	2.46	0.43
3:N:821:VAL:HB	9:N:9577:HOH:O	2.17	0.43
4:O:54:LEU:HD11	9:O:4249:HOH:O	2.18	0.43
9:N:2509:HOH:O	5:P:94:LEU:HD11	2.18	0.43
1:A:22:GLU:HG3	9:A:9810:HOH:O	2.19	0.42
1:A:85:LEU:HD12	1:A:124:ASN:CB	2.49	0.42
1:A:88:ARG:HH11	1:A:90:LEU:HD23	1.83	0.42
1:A:91:ASN:ND2	1:A:92:PRO:HD2	2.34	0.42
1:B:92:PRO:HB3	9:B:9565:HOH:O	2.19	0.42
2:C:118:ILE:HA	2:C:119:PRO:HD3	1.92	0.42
2:C:146:VAL:HB	2:C:281:LEU:HD21	2.01	0.42
2:C:404:LEU:HA	2:C:407:LYS:CE	2.49	0.42
2:C:703:ILE:N	9:C:9875:HOH:O	2.51	0.42
2:C:728:HIS:HA	9:C:2290:HOH:O	2.19	0.42
2:C:783:ARG:O	2:C:785:VAL:N	2.50	0.42
2:C:945:ARG:HH11	2:C:945:ARG:CB	2.20	0.42
3:D:1211:MET:HB3	3:D:1213:ARG:NE	2.33	0.42
3:D:1333:HIS:N	9:D:9823:HOH:O	2.52	0.42
3:D:1436:SER:HB3	9:D:9873:HOH:O	2.19	0.42
3:D:166:GLN:HG3	9:D:2963:HOH:O	2.19	0.42
3:D:13:ALA:HB1	3:D:18:ILE:HD11	2.01	0.42
3:D:423:ASP:HA	9:D:2049:HOH:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:424:GLY:N	3:D:437:VAL:HG23	2.34	0.42
3:D:827:ILE:HB	3:D:828:LYS:HD3	2.01	0.42
3:D:829:VAL:O	3:D:835:SER:HB2	2.19	0.42
3:D:885:ILE:HG23	3:D:937:TYR:CE1	2.54	0.42
3:D:965:GLU:OE1	3:D:968:ASP:HB3	2.18	0.42
4:E:91:ARG:HD2	9:E:9580:HOH:O	2.17	0.42
5:F:326:ASP:O	5:F:328:PHE:HD1	2.01	0.42
1:K:14:ARG:HG3	9:K:6203:HOH:O	2.18	0.42
1:K:182:GLU:N	9:K:1076:HOH:O	2.52	0.42
1:K:34:VAL:HG22	1:K:181:VAL:HG21	2.00	0.42
1:L:176:ARG:NH1	3:N:884:ARG:CZ	2.82	0.42
2:M:148:PHE:HA	9:M:9475:HOH:O	2.19	0.42
2:M:262:ALA:HB3	9:M:9600:HOH:O	2.18	0.42
2:M:427:VAL:HG23	9:M:2524:HOH:O	2.19	0.42
2:M:546:LEU:HA	2:M:581:THR:HG1	1.84	0.42
2:M:918:LEU:HD23	2:M:968:LEU:C	2.39	0.42
2:M:918:LEU:HD23	2:M:968:LEU:CA	2.49	0.42
3:N:1459:LEU:HG	9:N:9608:HOH:O	2.19	0.42
3:N:39:PRO:HB2	9:N:9225:HOH:O	2.19	0.42
3:N:400:VAL:C	3:N:402:PRO:HD3	2.38	0.42
3:N:567:ILE:C	3:N:571:LYS:HE2	2.39	0.42
3:N:69:GLU:HA	9:N:9383:HOH:O	2.17	0.42
3:N:834:THR:HA	3:N:838:ARG:NH2	2.35	0.42
5:P:113:ILE:HG23	5:P:127:ILE:CB	2.49	0.42
5:P:316:SER:HB3	5:P:319:THR:OG1	2.19	0.42
5:P:332:PHE:HD1	9:P:1466:HOH:O	2.00	0.42
5:P:373:LYS:HA	5:P:378:GLY:C	2.39	0.42
1:A:128:HIS:O	1:A:129:ILE:HD13	2.19	0.42
1:A:142:VAL:O	1:A:142:VAL:HG23	2.18	0.42
1:B:5:LYS:O	1:B:8:ALA:HB2	2.20	0.42
1:B:80:LEU:HG	3:D:844:ALA:CB	2.43	0.42
1:B:85:LEU:HD12	1:B:124:ASN:CB	2.49	0.42
2:C:1009:SER:HB3	9:C:9882:HOH:O	2.19	0.42
2:C:288:ARG:HA	2:C:288:ARG:NH1	2.34	0.42
2:C:308:ARG:HB2	9:C:9614:HOH:O	2.18	0.42
2:C:614:ARG:HD3	9:C:9979:HOH:O	2.19	0.42
2:C:776:SER:HA	2:C:780:GLU:CB	2.44	0.42
2:C:798:GLY:HA3	2:C:828:ALA:O	2.18	0.42
3:D:101:HIS:HD2	3:D:582:LEU:HD13	1.84	0.42
3:D:127:LEU:HG	3:D:128:TYR:HD1	1.83	0.42
3:D:1486:VAL:HG22	9:D:9984:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:195:VAL:HG13	9:D:2043:HOH:O	2.18	0.42
3:D:2:LYS:HB3	9:D:2307:HOH:O	2.17	0.42
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.19	0.42
3:D:520:LEU:CD1	3:D:521:PRO:HD2	2.40	0.42
3:D:669:ASN:O	3:D:672:ALA:HB3	2.19	0.42
3:D:866:VAL:O	3:D:873:LEU:HD12	2.19	0.42
2:C:679:PHE:O	3:D:943:THR:HG22	2.19	0.42
5:F:111:GLU:HB3	9:F:9921:HOH:O	2.19	0.42
5:F:208:SER:HB2	5:F:211:ASP:OD1	2.19	0.42
5:F:369:LEU:HD21	5:F:401:GLU:OE1	2.19	0.42
5:F:94:LEU:H	5:F:98:GLU:HB2	1.83	0.42
1:K:39:PRO:HG3	1:L:39:PRO:HG3	2.01	0.42
1:K:53:VAL:HG21	1:K:82:LEU:HB3	2.00	0.42
1:L:128:HIS:HB2	9:L:7862:HOH:O	2.18	0.42
1:L:48:ILE:HD13	1:L:210:ALA:HB1	2.00	0.42
1:L:61:VAL:HG13	9:L:6647:HOH:O	2.20	0.42
2:M:208:ALA:HA	2:M:218:VAL:CG2	2.49	0.42
2:M:234:ALA:HB2	9:M:9679:HOH:O	2.19	0.42
2:M:651:LYS:HG2	9:M:9533:HOH:O	2.19	0.42
3:N:1094:LEU:HD23	3:N:1230:GLY:HA2	2.01	0.42
3:N:1389:LEU:O	3:N:1391:GLU:N	2.52	0.42
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.19	0.42
3:N:176:ASP:HA	9:N:9302:HOH:O	2.19	0.42
3:N:206:ARG:HB2	9:N:2716:HOH:O	2.19	0.42
3:N:489:ARG:NH1	9:N:9727:HOH:O	2.51	0.42
3:N:738:ALA:HB2	9:N:9228:HOH:O	2.19	0.42
3:N:79:GLU:HG2	9:N:2381:HOH:O	2.18	0.42
5:P:113:ILE:HA	5:P:116:LEU:HD12	2.01	0.42
3:N:566:ILE:HG23	5:P:214:GLN:OE1	2.19	0.42
3:N:537:THR:HA	5:P:317:LEU:HD12	2.01	0.42
5:P:93:LEU:HB2	9:P:2248:HOH:O	2.19	0.42
1:A:133:GLU:HB3	9:A:9624:HOH:O	2.18	0.42
1:B:133:GLU:HG2	9:B:9650:HOH:O	2.19	0.42
2:C:384:GLU:HA	2:C:388:ARG:NH2	2.34	0.42
2:C:72:ARG:HD3	9:C:2792:HOH:O	2.18	0.42
2:C:734:LEU:HD12	9:C:9587:HOH:O	2.17	0.42
2:C:737:LEU:HD22	2:C:741:GLY:O	2.19	0.42
2:C:77:PRO:HD2	2:C:91:GLN:O	2.19	0.42
2:C:890:LEU:HG	2:C:901:TYR:CD1	2.53	0.42
2:C:971:LYS:HG2	2:C:988:VAL:HG12	2.02	0.42
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1428:ALA:O	3:D:1430:SER:N	2.52	0.42
3:D:190:GLU:HG3	3:D:210:ARG:HE	1.84	0.42
3:D:613:ARG:HG3	3:D:613:ARG:HH11	1.83	0.42
3:D:898:GLU:HA	9:D:2154:HOH:O	2.19	0.42
3:D:890:VAL:HG11	3:D:922:LEU:HD13	2.01	0.42
4:E:32:ARG:C	4:E:34:GLY:H	2.23	0.42
5:F:397:ILE:HD13	9:F:9936:HOH:O	2.19	0.42
5:F:416:ARG:HB3	9:F:9972:HOH:O	2.19	0.42
1:K:209:GLU:O	1:K:213:GLN:HG3	2.19	0.42
1:K:221:HIS:ND1	1:K:224:TYR:HE2	2.15	0.42
2:M:139:GLN:HA	2:M:411:SER:O	2.19	0.42
2:M:325:ILE:HG13	2:M:325:ILE:H	1.60	0.42
2:M:672:VAL:HG23	2:M:868:ASP:OD2	2.19	0.42
2:M:915:LYS:HB3	9:M:9311:HOH:O	2.19	0.42
3:N:119:SER:N	3:N:123:LEU:HB2	2.34	0.42
3:N:424:GLY:CA	3:N:436:GLU:HA	2.37	0.42
3:N:58:CYS:SG	3:N:59:ALA:N	2.92	0.42
3:N:669:ASN:O	3:N:672:ALA:HB3	2.18	0.42
3:N:813:LEU:HD11	9:N:9724:HOH:O	2.19	0.42
3:N:988:ARG:HD2	3:N:992:ILE:HD12	2.00	0.42
5:P:207:LEU:HD11	5:P:251:ILE:HA	2.01	0.42
5:P:335:ASP:CG	5:P:338:LEU:HD12	2.39	0.42
5:P:403:LYS:HA	5:P:403:LYS:HD3	1.84	0.42
1:A:72:LYS:HA	9:C:9832:HOH:O	2.18	0.42
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.45	0.42
2:C:793:PRO:HB2	9:C:9660:HOH:O	2.18	0.42
2:C:877:PRO:HD3	3:D:949:ILE:HD11	1.99	0.42
2:C:911:GLU:HB3	2:C:912:PRO:HD3	2.01	0.42
3:D:105:VAL:HG12	3:D:106:LYS:HE3	2.01	0.42
3:D:1140:ILE:HD13	3:D:1175:ILE:HG12	2.02	0.42
3:D:1223:ILE:CD1	3:D:1462:LEU:HD12	2.50	0.42
3:D:1490:LYS:HB3	9:D:2818:HOH:O	2.19	0.42
3:D:212:ARG:HD2	3:D:445:ARG:NH1	2.34	0.42
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.85	0.42
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.50	0.42
3:D:583:ASP:HA	3:D:602:SER:CB	2.49	0.42
3:D:799:LYS:HD3	9:D:2211:HOH:O	2.18	0.42
5:F:159:ILE:O	5:F:163:LEU:HG	2.20	0.42
1:L:34:VAL:HG22	1:L:181:VAL:HG21	2.01	0.42
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	2.01	0.42
2:M:209:ARG:O	2:M:213:ALA:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:299:LYS:HE2	9:M:9257:HOH:O	2.20	0.42
2:M:321:GLU:HA	9:M:9664:HOH:O	2.20	0.42
2:M:47:ALA:O	2:M:50:GLU:HB2	2.18	0.42
2:M:617:ASP:HB2	9:M:9795:HOH:O	2.18	0.42
2:M:948:GLU:HB2	2:M:955:PRO:HG3	2.01	0.42
3:N:139:GLY:HA3	3:N:452:ILE:HD12	2.01	0.42
3:N:1442:ASN:ND2	3:N:1442:ASN:H	2.17	0.42
3:N:167:GLU:HG2	9:N:2697:HOH:O	2.20	0.42
3:N:476:GLU:HA	9:N:9645:HOH:O	2.19	0.42
3:N:47:GLU:HA	3:N:51:GLY:O	2.19	0.42
3:N:703:ASN:HA	3:N:703:ASN:HD22	1.73	0.42
3:N:850:LEU:O	3:N:853:VAL:HB	2.19	0.42
1:A:227:ASN:ND2	1:A:227:ASN:N	2.61	0.42
1:A:34:VAL:HG21	2:C:939:ARG:HD2	2.01	0.42
2:C:478:VAL:CG1	2:C:506:ASN:HB3	2.49	0.42
2:C:473:ARG:NE	2:C:531:PHE:HE1	2.11	0.42
2:C:557:ARG:CZ	2:C:560:MET:SD	3.07	0.42
2:C:578:VAL:CG2	2:C:579:VAL:HG12	2.49	0.42
2:C:606:VAL:HG22	2:C:645:VAL:HG13	2.01	0.42
2:C:678:PRO:O	3:D:943:THR:HA	2.19	0.42
3:D:1087:ARG:HH21	3:D:1238:MET:HB2	1.84	0.42
3:D:1138:ALA:O	3:D:1141:GLU:HB2	2.20	0.42
3:D:15:PRO:HG3	9:D:9724:HOH:O	2.20	0.42
3:D:162:ARG:HB2	3:D:162:ARG:NH1	2.34	0.42
3:D:517:VAL:HG12	3:D:518:PRO:O	2.20	0.42
3:D:656:PHE:HB3	3:D:694:VAL:HG11	2.01	0.42
3:D:679:ARG:HH12	3:D:681:ARG:CD	2.24	0.42
4:E:54:LEU:HG	4:E:58:PRO:CD	2.48	0.42
5:F:187:LEU:HD23	5:F:191:ASN:ND2	2.35	0.42
5:F:276:ARG:HG2	9:F:9570:HOH:O	2.18	0.42
2:M:30:LEU:HD11	9:M:9879:HOH:O	2.19	0.42
2:M:395:LYS:CG	2:M:397:GLU:HG2	2.47	0.42
2:M:418:LEU:HB3	9:M:9342:HOH:O	2.19	0.42
2:M:15:LEU:HB2	2:M:586:ARG:NH2	2.33	0.42
2:M:713:ARG:NH1	2:M:713:ARG:HG2	2.34	0.42
2:M:928:LYS:HA	9:M:9477:HOH:O	2.20	0.42
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.55	0.42
3:N:1331:ASP:OD1	3:N:1333:HIS:HB2	2.20	0.42
3:N:1197:ARG:HD2	3:N:1396:GLU:HB2	2.02	0.42
3:N:179:VAL:HG23	9:N:2700:HOH:O	2.18	0.42
3:N:36:THR:C	3:N:38:LYS:N	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:M:9885:HOH:O	3:N:628:ARG:HD3	2.19	0.42
3:N:858:VAL:HG12	3:N:859:ASP:O	2.19	0.42
1:B:122:ILE:HD12	9:B:9579:HOH:O	2.18	0.42
1:B:48:ILE:HD13	1:B:210:ALA:HB1	2.02	0.42
2:C:115:LEU:HG	2:C:115:LEU:H	1.70	0.42
2:C:151:ASP:HB2	2:C:157:ARG:O	2.19	0.42
2:C:247:PRO:HA	2:C:248:PRO:HD3	1.87	0.42
2:C:441:VAL:HG23	9:C:2264:HOH:O	2.20	0.42
2:C:525:SER:HA	9:C:9711:HOH:O	2.19	0.42
2:C:530:GLU:O	2:C:531:PHE:HD1	2.03	0.42
2:C:601:GLY:O	2:C:648:ARG:HA	2.19	0.42
3:D:112:ILE:HD11	3:D:116:LEU:HD12	2.00	0.42
3:D:1193:THR:N	9:D:9658:HOH:O	2.52	0.42
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	2.01	0.42
3:D:205:TYR:CE2	3:D:393:ILE:HG12	2.55	0.42
3:D:421:LEU:HD21	9:D:9882:HOH:O	2.19	0.42
3:D:48:ARG:HA	9:D:2217:HOH:O	2.19	0.42
3:D:65:ARG:HG3	3:D:66:GLN:H	1.84	0.42
3:D:819:GLY:HA3	9:D:3219:HOH:O	2.18	0.42
4:E:10:PHE:O	4:E:13:VAL:HG22	2.20	0.42
5:F:164:LYS:HA	5:F:171:LYS:HZ2	1.81	0.42
5:F:216:GLY:O	5:F:243:ILE:HG12	2.19	0.42
2:M:1043:TYR:CE2	3:N:763:MET:HG3	2.54	0.42
2:M:1105:LYS:HB2	2:M:1107:ASN:ND2	2.35	0.42
2:M:299:LYS:HG3	9:M:9257:HOH:O	2.18	0.42
2:M:435:TYR:CE1	2:M:539:VAL:HG22	2.54	0.42
2:M:651:LYS:HA	9:M:2442:HOH:O	2.19	0.42
2:M:685:GLU:HG3	3:N:783:ARG:HD2	2.01	0.42
2:M:71:TYR:HD2	2:M:71:TYR:H	1.67	0.42
3:N:231:VAL:HA	3:N:378:ILE:CB	2.50	0.42
3:N:426:LYS:HB3	3:N:426:LYS:HE2	1.90	0.42
3:N:546:ARG:O	3:N:550:ARG:HG2	2.20	0.42
3:N:699:VAL:HB	3:N:716:PHE:O	2.20	0.42
5:P:201:LYS:HD2	9:P:8888:HOH:O	2.19	0.42
5:P:358:LEU:O	5:P:358:LEU:HD23	2.19	0.42
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.53	0.42
1:A:34:VAL:HG23	9:A:9562:HOH:O	2.18	0.42
1:A:74:ASP:HB2	9:A:9794:HOH:O	2.19	0.42
1:B:75:VAL:O	1:B:79:ILE:HG23	2.19	0.42
1:B:90:LEU:CD2	1:B:91:ASN:HD22	2.33	0.42
2:C:514:VAL:HG13	9:C:9943:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:572:ILE:HG13	2:C:573:ARG:N	2.34	0.42
2:C:744:ARG:NE	9:C:9710:HOH:O	2.50	0.42
2:C:841:ASN:C	2:C:841:ASN:ND2	2.71	0.42
2:C:948:GLU:HB2	2:C:955:PRO:HG3	2.02	0.42
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.54	0.42
3:D:1194:CYS:HB2	9:D:2009:HOH:O	2.19	0.42
3:D:1250:ALA:HB3	9:D:3244:HOH:O	2.19	0.42
3:D:1275:SER:HA	3:D:1303:TYR:CE1	2.54	0.42
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	2.01	0.42
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.49	0.42
3:D:205:TYR:HA	3:D:393:ILE:HD13	2.01	0.42
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.49	0.42
3:D:644:LEU:O	3:D:721:VAL:HG22	2.20	0.42
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.83	0.42
3:D:894:LYS:HB3	9:D:2360:HOH:O	2.19	0.42
4:E:40:LEU:HB2	4:E:45:ARG:CZ	2.49	0.42
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.54	0.42
1:K:33:GLY:HA2	1:K:195:LEU:HD22	2.01	0.42
1:L:103:ALA:HB1	9:L:4720:HOH:O	2.20	0.42
2:M:165:LEU:HD12	2:M:166:PRO:HA	2.01	0.42
2:M:292:ARG:NH2	2:M:299:LYS:HD3	2.35	0.42
2:M:480:THR:HG22	2:M:481:ASP:N	2.35	0.42
2:M:517:ARG:O	2:M:519:GLY:N	2.52	0.42
2:M:724:ARG:HB2	2:M:740:GLU:CA	2.43	0.42
1:K:178:ALA:HB2	2:M:864:GLY:CA	2.50	0.42
3:N:26:VAL:HG23	9:N:9259:HOH:O	2.19	0.42
3:N:480:GLU:O	3:N:484:PRO:HD2	2.19	0.42
3:N:559:ALA:O	5:P:132:ARG:NH1	2.52	0.42
3:N:645:PRO:HG2	3:N:724:GLN:O	2.19	0.42
3:N:796:ARG:HE	3:N:828:LYS:HZ3	1.68	0.42
4:O:84:ARG:HD2	9:O:3299:HOH:O	2.19	0.42
5:P:149:GLU:HB2	9:P:3104:HOH:O	2.18	0.42
1:A:72:LYS:N	9:A:9656:HOH:O	2.53	0.42
1:A:74:ASP:CB	9:A:9794:HOH:O	2.67	0.42
2:C:492:ASP:CA	2:C:518:LYS:HB3	2.47	0.42
2:C:599:GLU:HB2	9:C:2285:HOH:O	2.20	0.42
2:C:625:LEU:O	2:C:627:ARG:N	2.53	0.42
2:C:853:LEU:HB2	2:C:858:MET:HE3	2.01	0.42
3:D:1156:LEU:HD11	3:D:1177:ALA:HA	2.02	0.42
3:D:1300:SER:HB3	9:D:9737:HOH:O	2.20	0.42
3:D:1389:LEU:O	3:D:1391:GLU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1503:VAL:HG21	9:D:9933:HOH:O	2.20	0.42
4:E:66:LYS:HB2	4:E:66:LYS:NZ	2.35	0.42
1:K:198:ARG:NE	9:K:1703:HOH:O	2.53	0.42
2:M:16:PRO:HB3	2:M:460:ARG:NH1	2.35	0.42
2:M:182:VAL:HG12	9:M:9802:HOH:O	2.19	0.42
2:M:46:ALA:O	2:M:50:GLU:HG3	2.20	0.42
2:M:575:GLN:HE21	2:M:671:ASN:HB2	1.85	0.42
2:M:939:ARG:CZ	9:M:9419:HOH:O	2.66	0.42
3:N:1020:LEU:HG	3:N:1035:ILE:HD12	2.00	0.42
3:N:10:ILE:HD11	3:N:1434:TRP:NE1	2.35	0.42
3:N:422:ALA:H	3:N:427:VAL:CG1	2.33	0.42
3:N:434:ARG:HB2	3:N:447:VAL:HG13	2.02	0.42
3:N:44:LEU:HG	9:N:9241:HOH:O	2.20	0.42
3:N:528:VAL:O	3:N:535:PHE:HA	2.20	0.42
3:N:527:MET:CE	3:N:535:PHE:HB3	2.50	0.42
2:M:753:ASP:OD2	3:N:681:ARG:HD2	2.20	0.42
3:N:728:LEU:HD12	3:N:729:HIS:N	2.34	0.42
2:M:949:LYS:HZ2	3:N:796:ARG:HH22	1.67	0.42
3:N:93:ILE:HG13	3:N:519:VAL:CG2	2.50	0.42
5:P:207:LEU:HD12	5:P:251:ILE:HG12	2.01	0.42
1:A:177:VAL:HG12	1:A:178:ALA:N	2.35	0.42
1:A:177:VAL:O	2:C:864:GLY:CA	2.68	0.42
2:C:1014:SER:N	9:C:2050:HOH:O	2.52	0.42
2:C:1082:PRO:HA	9:C:9720:HOH:O	2.20	0.42
2:C:418:LEU:HD12	9:C:2110:HOH:O	2.20	0.42
2:C:471:TYR:HB3	2:C:531:PHE:CD2	2.55	0.42
2:C:627:ARG:CG	2:C:628:PHE:H	2.33	0.42
2:C:714:ASP:HB2	2:C:818:GLY:O	2.20	0.42
2:C:906:PHE:N	9:C:9623:HOH:O	2.53	0.42
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.40	0.42
3:D:111:LYS:HD3	3:D:111:LYS:HA	1.87	0.42
3:D:1166:LEU:HD23	3:D:1166:LEU:N	2.30	0.42
3:D:126:VAL:CG1	3:D:132:TYR:HB2	2.50	0.42
3:D:160:GLU:HA	9:D:2658:HOH:O	2.18	0.42
3:D:172:PRO:HA	3:D:173:PRO:HD3	1.75	0.42
3:D:43:GLY:N	9:D:9655:HOH:O	2.53	0.42
3:D:525:ARG:N	3:D:526:PRO:HD3	2.35	0.42
3:D:601:ARG:HH22	3:D:613:ARG:HB2	1.84	0.42
4:E:41:GLU:HA	4:E:45:ARG:HG3	2.02	0.42
4:E:54:LEU:HA	4:E:58:PRO:HG2	2.02	0.42
5:F:248:ASN:HB2	9:F:9828:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:421:PHE:C	5:F:423:ASP:N	2.72	0.42
1:K:106:PRO:HA	1:K:132:LEU:O	2.20	0.42
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.55	0.42
2:M:172:ILE:HG13	9:M:9595:HOH:O	2.20	0.42
2:M:207:LEU:HD13	2:M:221:LEU:CD1	2.50	0.42
2:M:649:VAL:HG12	2:M:650:ARG:HH21	1.85	0.42
2:M:913:GLU:O	2:M:916:GLU:HB3	2.20	0.42
2:M:929:ARG:HD3	9:M:9262:HOH:O	2.18	0.42
3:N:1033:GLN:O	3:N:1037:GLN:HG3	2.20	0.42
3:N:438:ASP:OD2	3:N:440:VAL:HB	2.19	0.42
3:N:660:LYS:O	3:N:663:GLU:HB2	2.20	0.42
3:N:751:LEU:HD13	9:N:9380:HOH:O	2.19	0.42
3:N:838:ARG:HH11	3:N:863:VAL:HB	1.85	0.42
3:N:860:LEU:O	3:N:876:SER:OG	2.37	0.42
5:P:371:LEU:HD12	9:P:1495:HOH:O	2.19	0.42
9:M:9896:HOH:O	5:P:373:LYS:HD2	2.19	0.42
1:A:30:ARG:HD2	9:D:9595:HOH:O	2.20	0.42
2:C:1036:GLU:CD	2:C:1036:GLU:N	2.73	0.42
2:C:1085:PHE:CE2	3:D:1468:LEU:HA	2.54	0.42
2:C:10:ARG:HD2	2:C:10:ARG:HA	1.80	0.42
2:C:359:MET:HB2	9:C:2205:HOH:O	2.18	0.42
2:C:780:GLU:HG3	2:C:781:LYS:N	2.31	0.42
3:D:1284:GLU:HA	3:D:1284:GLU:OE1	2.20	0.42
3:D:1348:LEU:HD23	3:D:1375:MET:HE3	2.02	0.42
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.67	0.42
3:D:1466:VAL:HG22	3:D:1472:ILE:CD1	2.50	0.42
3:D:445:ARG:HD3	9:D:2510:HOH:O	2.20	0.42
3:D:55:ASP:HA	9:D:9689:HOH:O	2.20	0.42
3:D:631:ILE:HG21	3:D:745:MET:CG	2.47	0.42
3:D:739:ASP:CG	3:D:741:ASP:OD1	2.58	0.42
3:D:914:LEU:O	3:D:914:LEU:HD23	2.19	0.42
3:D:983:LEU:N	9:D:2242:HOH:O	2.48	0.42
4:E:43:GLU:H	4:E:43:GLU:HG2	1.66	0.42
4:E:51:LEU:HD12	4:E:52:GLU:H	1.83	0.42
5:F:151:LEU:HB2	5:F:155:THR:CB	2.50	0.42
5:F:196:VAL:O	5:F:200:LYS:HB2	2.19	0.42
5:F:419:ARG:HG2	5:F:419:ARG:NH1	2.35	0.42
1:L:85:LEU:HD12	1:L:124:ASN:CB	2.50	0.42
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.20	0.42
2:M:192:PRO:CB	2:M:195:LEU:HD13	2.44	0.42
2:M:248:PRO:HD3	9:M:9536:HOH:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:300:ASP:C	2:M:302:VAL:H	2.22	0.42
2:M:585:GLU:CG	2:M:586:ARG:H	2.33	0.42
2:M:601:GLY:O	2:M:648:ARG:HA	2.20	0.42
3:N:1234:THR:HA	9:N:2227:HOH:O	2.19	0.42
3:N:125:GLN:HG3	9:N:9692:HOH:O	2.20	0.42
3:N:128:TYR:HA	3:N:128:TYR:HD2	1.64	0.42
3:N:1314:LYS:HG3	9:N:2352:HOH:O	2.20	0.42
3:N:1428:ALA:O	3:N:1430:SER:N	2.53	0.42
3:N:16:GLU:O	3:N:19:ARG:HB2	2.20	0.42
3:N:417:PRO:HB3	9:P:4142:HOH:O	2.20	0.42
3:N:565:ILE:CD1	3:N:565:ILE:H	2.20	0.42
2:M:850:ALA:HB1	3:N:632:VAL:HG13	2.02	0.42
3:N:715:ALA:HB3	3:N:764:LEU:CA	2.35	0.42
1:L:175:ARG:O	3:N:851:LEU:HD21	2.20	0.42
1:L:176:ARG:NH1	3:N:884:ARG:NE	2.63	0.42
5:P:256:ARG:HD3	5:P:260:ILE:HG22	2.02	0.42
5:P:367:MET:O	5:P:370:LYS:HG2	2.20	0.42
5:P:393:THR:CG2	5:P:394:ARG:N	2.83	0.42
1:A:106:PRO:HA	1:A:132:LEU:O	2.20	0.41
1:A:217:ILE:H	1:A:217:ILE:HG13	1.70	0.41
2:C:110:GLU:HB3	2:C:368:THR:HG22	2.02	0.41
2:C:244:PRO:CD	2:C:245:GLY:N	2.82	0.41
2:C:264:PRO:HB2	9:C:9902:HOH:O	2.20	0.41
2:C:130:ASN:CG	2:C:383:ARG:HH22	2.24	0.41
2:C:405:ARG:HD2	9:C:9844:HOH:O	2.19	0.41
2:C:431:HIS:O	2:C:434:HIS:HB2	2.19	0.41
2:C:84:ARG:HH12	2:C:128:ILE:CD1	2.33	0.41
2:C:872:ASN:HA	2:C:873:PRO:HD3	1.89	0.41
3:D:1274:ILE:H	3:D:1274:ILE:HG13	1.58	0.41
3:D:33:ASN:HA	9:F:9722:HOH:O	2.19	0.41
3:D:434:ARG:CB	3:D:447:VAL:HG13	2.49	0.41
3:D:486:ARG:HH21	3:D:489:ARG:CD	2.32	0.41
3:D:792:ILE:O	3:D:878:GLY:HA3	2.20	0.41
3:D:871:LYS:CG	3:D:873:LEU:HG	2.49	0.41
4:E:48:MET:HG2	4:E:49:GLN:N	2.34	0.41
5:F:104:ARG:NH2	9:F:9811:HOH:O	2.52	0.41
5:F:289:GLU:O	5:F:293:GLU:HG3	2.19	0.41
5:F:363:GLU:HA	9:F:9838:HOH:O	2.20	0.41
1:K:86:VAL:HG13	1:K:86:VAL:O	2.20	0.41
1:L:5:LYS:O	1:L:8:ALA:HB2	2.20	0.41
1:L:90:LEU:HB3	9:L:1485:HOH:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1037:VAL:O	2:M:1041:GLU:HG3	2.20	0.41
2:M:246:ASP:HB2	9:M:9223:HOH:O	2.19	0.41
2:M:514:VAL:HG12	2:M:515:ALA:N	2.35	0.41
2:M:18:LEU:HD21	2:M:542:VAL:HG11	2.01	0.41
2:M:897:LEU:HB3	2:M:899:GLN:CG	2.50	0.41
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	2.02	0.41
3:N:112:ILE:HD11	3:N:124:GLU:CG	2.50	0.41
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.20	0.41
3:N:168:THR:HB	3:N:170:PRO:HD3	2.03	0.41
3:N:186:VAL:HG23	3:N:211:VAL:CG1	2.49	0.41
3:N:399:ARG:HB3	3:N:402:PRO:CG	2.46	0.41
3:N:30:GLU:HB3	3:N:40:GLU:CG	2.50	0.41
3:N:656:PHE:HB3	3:N:694:VAL:HG11	2.01	0.41
3:N:907:GLU:CD	3:N:909:ASN:HB2	2.40	0.41
4:O:87:LYS:HE2	4:O:91:ARG:NH2	2.28	0.41
5:P:253:ASP:HB3	5:P:259:ARG:HH21	1.85	0.41
5:P:287:THR:C	5:P:289:GLU:H	2.23	0.41
5:P:291:ILE:CG2	5:P:304:VAL:HG21	2.49	0.41
5:P:394:ARG:HA	5:P:397:ILE:CD1	2.45	0.41
5:P:80:PRO:O	5:P:83:GLN:HB2	2.20	0.41
1:A:3:ASP:HB3	1:A:4:SER:H	1.54	0.41
1:B:132:LEU:HD21	1:B:138:LEU:HB2	2.02	0.41
1:B:55:SER:HB2	1:B:158:ILE:HB	2.02	0.41
1:B:41:ARG:HH11	1:B:41:ARG:HG3	1.85	0.41
1:B:8:ALA:HB2	9:B:9765:HOH:O	2.20	0.41
2:C:1016:ILE:HD11	5:F:330:GLY:CA	2.50	0.41
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.50	0.41
2:C:1087:VAL:O	2:C:1091:GLU:HG3	2.20	0.41
2:C:384:GLU:HG3	2:C:388:ARG:HB2	2.02	0.41
2:C:887:GLU:HG3	9:C:9563:HOH:O	2.20	0.41
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.20	0.41
3:D:1335:LEU:HD21	9:D:9849:HOH:O	2.20	0.41
3:D:168:THR:C	3:D:170:PRO:HD3	2.41	0.41
3:D:185:VAL:CG1	3:D:191:LEU:HD21	2.50	0.41
3:D:414:ARG:HB3	9:D:2090:HOH:O	2.20	0.41
3:D:47:GLU:HA	3:D:51:GLY:O	2.20	0.41
3:D:794:GLN:NE2	3:D:795:VAL:N	2.68	0.41
3:D:996:TRP:CE3	3:D:996:TRP:HA	2.54	0.41
9:D:2988:HOH:O	4:E:58:PRO:HG3	2.19	0.41
5:F:366:ALA:HB3	9:F:9838:HOH:O	2.19	0.41
5:F:402:ASN:HB3	5:F:406:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:143:SER:CB	2:M:276:LYS:HE2	2.49	0.41
2:M:464:LEU:HD13	9:M:9893:HOH:O	2.20	0.41
2:M:524:VAL:HG22	2:M:528:GLU:HB2	2.01	0.41
2:M:757:GLY:HA2	2:M:789:SER:HB3	2.02	0.41
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.35	0.41
3:N:1146:GLY:N	9:N:2585:HOH:O	2.53	0.41
3:N:1301:LYS:HD3	9:N:2604:HOH:O	2.18	0.41
3:N:1307:LYS:HB2	3:N:1307:LYS:NZ	2.35	0.41
3:N:161:LEU:C	3:N:449:SER:HB2	2.41	0.41
3:N:213:VAL:HG13	9:N:2214:HOH:O	2.19	0.41
3:N:209:ARG:NH1	3:N:397:LYS:HG3	2.35	0.41
3:N:659:LYS:O	3:N:663:GLU:HG2	2.20	0.41
3:N:793:THR:HB	3:N:879:ARG:HD2	2.02	0.41
3:N:9:ARG:NH1	3:N:9:ARG:HG2	2.35	0.41
5:P:367:MET:HA	5:P:370:LYS:CD	2.49	0.41
5:P:387:GLY:HA2	9:P:8096:HOH:O	2.19	0.41
5:P:75:ILE:HG22	9:P:6479:HOH:O	2.18	0.41
2:C:249:LYS:HA	9:C:2727:HOH:O	2.19	0.41
2:C:516:ARG:HB3	9:C:9652:HOH:O	2.19	0.41
2:C:690:ILE:HG12	2:C:849:VAL:HG13	2.01	0.41
2:C:707:ARG:HD2	2:C:824:ARG:HD3	2.01	0.41
2:C:73:LEU:HD23	2:C:118:ILE:HD11	2.01	0.41
3:D:1428:ALA:O	3:D:1431:THR:HG23	2.19	0.41
3:D:381:ALA:HA	9:D:2848:HOH:O	2.19	0.41
2:C:1008:ARG:NH1	3:D:624:ASP:OD1	2.53	0.41
3:D:644:LEU:CG	3:D:718:PRO:HB3	2.50	0.41
5:F:301:ALA:HB2	9:F:2002:HOH:O	2.19	0.41
2:C:1016:ILE:CD1	5:F:317:LEU:HD21	2.43	0.41
5:F:317:LEU:O	5:F:329:TYR:HB3	2.21	0.41
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.55	0.41
2:M:137:VAL:HG13	2:M:409:ARG:O	2.20	0.41
2:M:230:ARG:CZ	2:M:237:ARG:HH22	2.32	0.41
2:M:241:LEU:HG	9:M:9694:HOH:O	2.21	0.41
2:M:366:SER:HB3	9:M:2384:HOH:O	2.20	0.41
2:M:460:ARG:HG3	2:M:460:ARG:HH11	1.85	0.41
2:M:497:ALA:HB3	2:M:532:MET:HG3	2.02	0.41
2:M:514:VAL:HG11	2:M:516:ARG:CZ	2.50	0.41
2:M:601:GLY:HA3	2:M:615:TYR:HA	2.02	0.41
2:M:854:PRO:C	2:M:856:GLU:N	2.73	0.41
2:M:928:LYS:HE2	9:M:9477:HOH:O	2.20	0.41
3:N:116:LEU:CB	3:N:118:LEU:HD13	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1312:LEU:HD23	9:N:2549:HOH:O	2.20	0.41
3:N:131:LYS:HB3	3:N:131:LYS:HZ3	1.85	0.41
3:N:1278:ASP:OD1	3:N:1321:ALA:HB2	2.20	0.41
3:N:1467:ILE:HD13	9:N:9712:HOH:O	2.20	0.41
3:N:427:VAL:HG21	3:N:435:VAL:HB	2.03	0.41
3:N:567:ILE:O	3:N:571:LYS:HG3	2.20	0.41
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.92	0.41
3:N:829:VAL:HA	9:N:9736:HOH:O	2.19	0.41
2:M:1115:LEU:CD2	3:N:85:VAL:HG22	2.50	0.41
3:N:907:GLU:OE2	3:N:909:ASN:HB2	2.21	0.41
5:P:313:GLU:OE1	5:P:313:GLU:HA	2.20	0.41
5:P:350:LEU:CD1	5:P:422:LEU:HD13	2.50	0.41
1:B:110:LYS:HG3	9:B:9637:HOH:O	2.20	0.41
1:B:108:GLU:HB3	1:B:128:HIS:HE1	1.86	0.41
1:B:89:PHE:HD2	1:B:146:ARG:HH21	1.69	0.41
1:B:53:VAL:HG21	1:B:82:LEU:HB3	2.03	0.41
2:C:1091:GLU:O	2:C:1094:ALA:HB3	2.20	0.41
2:C:121:MET:HA	2:C:127:PHE:CE2	2.56	0.41
2:C:193:LEU:HA	2:C:196:LEU:HD12	2.02	0.41
2:C:19:THR:HG22	2:C:19:THR:O	2.20	0.41
2:C:274:ARG:O	2:C:278:GLU:HG3	2.20	0.41
2:C:328:LEU:HD22	2:C:433:THR:C	2.41	0.41
2:C:455:LEU:HD22	2:C:459:ALA:HB1	2.02	0.41
2:C:47:ALA:O	2:C:50:GLU:HB3	2.20	0.41
2:C:988:VAL:HG13	9:C:9757:HOH:O	2.21	0.41
3:D:1110:ALA:O	3:D:1112:CYS:N	2.52	0.41
3:D:1209:LEU:HD23	3:D:1216:SER:H	1.85	0.41
4:E:48:MET:N	4:E:54:LEU:HB2	2.34	0.41
1:K:2:LEU:HA	1:K:6:LEU:CD2	2.50	0.41
9:K:5576:HOH:O	1:L:11:PHE:HB3	2.20	0.41
1:L:220:GLU:HA	1:L:223:THR:HG23	2.02	0.41
2:M:1047:HIS:O	2:M:1051:GLU:HG3	2.20	0.41
2:M:118:ILE:HA	2:M:119:PRO:HD3	1.88	0.41
2:M:130:ASN:N	9:M:9614:HOH:O	2.52	0.41
2:M:145:GLY:H	2:M:163:ILE:HG23	1.85	0.41
2:M:205:GLU:HG3	2:M:206:THR:N	2.36	0.41
2:M:205:GLU:HG3	9:M:9651:HOH:O	2.20	0.41
2:M:207:LEU:HD13	2:M:221:LEU:HD11	2.01	0.41
2:M:697:ARG:O	2:M:699:PHE:N	2.48	0.41
2:M:859:PRO:HB2	2:M:867:VAL:CG2	2.51	0.41
3:N:1111:ASP:HB2	3:N:1203:LYS:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:637:LEU:HD11	3:N:642:CYS:HA	2.02	0.41
5:P:94:LEU:HD12	5:P:97:GLU:H	1.83	0.41
1:A:48:ILE:HD13	1:A:210:ALA:HB1	2.03	0.41
1:A:88:ARG:HD2	1:A:123:MET:CE	2.50	0.41
1:B:151:VAL:HG12	1:B:156:HIS:ND1	2.36	0.41
2:C:1012:PRO:HB3	5:F:334:PRO:HB3	2.03	0.41
2:C:1095:LEU:HD12	3:D:603:LEU:HD13	2.03	0.41
2:C:666:LEU:HD11	2:C:668:LEU:HG	2.01	0.41
2:C:684:PHE:CG	2:C:685:GLU:N	2.86	0.41
2:C:807:ARG:HD2	9:C:2016:HOH:O	2.20	0.41
2:C:897:LEU:HD23	2:C:899:GLN:CD	2.41	0.41
3:D:1164:ARG:HG2	9:D:2063:HOH:O	2.20	0.41
3:D:1381:VAL:HG23	3:D:1391:GLU:HB2	2.01	0.41
3:D:1394:VAL:CB	3:D:1397:LYS:HD2	2.51	0.41
3:D:99:ALA:CA	3:D:575:GLN:HE22	2.29	0.41
5:F:80:PRO:O	5:F:83:GLN:HB3	2.20	0.41
1:K:104:GLU:HA	1:K:136:GLY:O	2.21	0.41
1:K:184:THR:HG23	1:K:192:LEU:HB2	2.02	0.41
1:K:71:VAL:HG13	9:K:1208:HOH:O	2.19	0.41
2:M:1092:LEU:CD1	2:M:1099:VAL:HG21	2.45	0.41
2:M:176:VAL:HG12	2:M:178:PRO:HD3	2.03	0.41
2:M:246:ASP:HA	2:M:247:PRO:HD3	1.97	0.41
2:M:764:GLU:HG2	9:M:9355:HOH:O	2.21	0.41
2:M:76:PRO:HB2	9:M:9838:HOH:O	2.19	0.41
2:M:927:GLY:HA2	2:M:930:LYS:HZ3	1.83	0.41
2:M:926:PHE:O	2:M:930:LYS:HG3	2.21	0.41
3:N:1110:ALA:O	3:N:1112:CYS:N	2.53	0.41
3:N:1353:GLN:NE2	3:N:1365:ASP:OD2	2.53	0.41
3:N:521:PRO:HB3	9:N:9625:HOH:O	2.20	0.41
3:N:520:LEU:O	3:N:525:ARG:NH1	2.54	0.41
3:N:704:ARG:CD	9:N:9228:HOH:O	2.69	0.41
3:N:82:LYS:O	3:N:84:ILE:N	2.54	0.41
4:O:48:MET:HG2	4:O:49:GLN:N	2.33	0.41
4:O:59:ASN:HB2	9:O:4249:HOH:O	2.19	0.41
5:P:136:LEU:HD12	5:P:137:GLY:N	2.36	0.41
5:P:309:LYS:HA	5:P:312:GLN:OE1	2.20	0.41
9:N:2944:HOH:O	5:P:92:PRO:HG2	2.20	0.41
1:A:69:PRO:O	1:A:71:VAL:HG23	2.21	0.41
1:A:79:ILE:HA	1:A:82:LEU:HD12	2.02	0.41
1:B:178:ALA:HB1	1:B:198:ARG:NH2	2.35	0.41
2:C:118:ILE:HG12	2:C:118:ILE:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:172:ILE:HG23	2:C:184:MET:CE	2.51	0.41
2:C:172:ILE:HA	2:C:185:LYS:O	2.20	0.41
2:C:279:GLU:OE2	2:C:489:THR:HG21	2.20	0.41
2:C:332:ARG:CZ	9:C:9819:HOH:O	2.69	0.41
2:C:756:VAL:HG11	2:C:823:VAL:HG21	2.02	0.41
2:C:701:THR:HG22	2:C:832:LYS:HG2	2.02	0.41
2:C:854:PRO:C	2:C:856:GLU:N	2.74	0.41
2:C:897:LEU:HD11	2:C:920:GLN:CG	2.49	0.41
2:C:942:GLU:HA	9:C:9752:HOH:O	2.19	0.41
3:D:1223:ILE:N	3:D:1223:ILE:HD12	2.35	0.41
3:D:1487:VAL:HG12	3:D:1488:ASP:N	2.35	0.41
3:D:1497:GLU:OE1	3:D:1500:LYS:HD2	2.20	0.41
3:D:205:TYR:OH	3:D:391:ALA:HB1	2.19	0.41
3:D:567:ILE:O	3:D:571:LYS:HG3	2.20	0.41
3:D:899:LEU:HD13	3:D:900:ILE:HG23	2.02	0.41
4:E:35:PHE:N	9:E:9641:HOH:O	2.52	0.41
5:F:125:ASP:N	9:F:9847:HOH:O	2.54	0.41
5:F:130:VAL:HG21	5:F:159:ILE:HD13	2.01	0.41
5:F:288:TYR:HE2	5:F:305:GLU:HA	1.86	0.41
5:F:406:ARG:O	5:F:409:LYS:HG2	2.20	0.41
5:F:419:ARG:O	5:F:421:PHE:N	2.53	0.41
1:K:180:GLN:NE2	9:K:1619:HOH:O	2.52	0.41
1:L:102:LYS:HB2	1:L:139:ASN:OD1	2.21	0.41
2:M:199:VAL:HG21	2:M:238:LEU:HD12	2.02	0.41
2:M:287:GLY:O	2:M:288:ARG:C	2.58	0.41
2:M:696:LYS:HA	9:M:9428:HOH:O	2.19	0.41
2:M:842:ARG:HD2	9:M:9367:HOH:O	2.21	0.41
2:M:858:MET:HB2	2:M:859:PRO:HD2	2.01	0.41
2:M:896:PHE:CD2	2:M:925:TYR:HB2	2.55	0.41
9:M:9803:HOH:O	3:N:1470:ARG:HA	2.21	0.41
3:N:1483:PHE:N	3:N:1483:PHE:CD1	2.89	0.41
3:N:191:LEU:HD22	3:N:195:VAL:HG21	2.02	0.41
3:N:550:ARG:NH1	3:N:573:MET:HB3	2.35	0.41
3:N:860:LEU:O	3:N:877:PRO:HD2	2.20	0.41
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.55	0.41
1:B:106:PRO:HA	1:B:132:LEU:O	2.20	0.41
1:B:108:GLU:O	1:B:110:LYS:HG3	2.20	0.41
2:C:1016:ILE:HD11	5:F:330:GLY:HA2	2.03	0.41
2:C:205:GLU:HA	9:C:9874:HOH:O	2.20	0.41
2:C:200:LEU:HD13	2:C:300:ASP:OD1	2.20	0.41
2:C:546:LEU:HG	2:C:546:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:648:ARG:HB3	9:C:9827:HOH:O	2.21	0.41
3:D:1359:GLN:NE2	9:D:2889:HOH:O	2.52	0.41
3:D:1263:PHE:HD2	3:D:1424:VAL:HG21	1.85	0.41
3:D:191:LEU:HD22	3:D:195:VAL:HG21	2.03	0.41
3:D:27:GLU:O	3:D:28:LYS:HG2	2.21	0.41
3:D:35:ARG:HA	9:D:2169:HOH:O	2.21	0.41
3:D:3:LYS:N	3:D:3:LYS:HD3	2.34	0.41
3:D:421:LEU:N	3:D:421:LEU:HD23	2.36	0.41
3:D:684:LYS:HA	9:D:2441:HOH:O	2.19	0.41
3:D:711:LEU:C	3:D:713:ILE:N	2.74	0.41
3:D:890:VAL:HG22	3:D:926:LYS:HG2	2.02	0.41
3:D:991:GLN:O	3:D:994:GLN:HB3	2.20	0.41
5:F:131:VAL:HG22	5:F:178:ARG:HD3	2.03	0.41
1:K:48:ILE:CG2	1:K:173:PRO:HD2	2.49	0.41
1:L:117:VAL:HG12	9:L:3068:HOH:O	2.21	0.41
1:L:136:GLY:HA3	9:L:2881:HOH:O	2.19	0.41
1:L:198:ARG:HD3	9:L:1055:HOH:O	2.21	0.41
2:M:297:GLU:HB3	9:M:2030:HOH:O	2.19	0.41
2:M:420:ARG:CD	2:M:420:ARG:H	2.30	0.41
2:M:557:ARG:HD2	2:M:557:ARG:HA	1.95	0.41
2:M:950:LEU:HB3	2:M:952:LEU:CD2	2.50	0.41
2:M:9:ILE:HG13	2:M:9:ILE:O	2.20	0.41
3:N:170:PRO:O	3:N:391:ALA:HB3	2.21	0.41
3:N:183:GLU:OE2	3:N:216:VAL:HG13	2.19	0.41
3:N:81:THR:HB	3:N:85:VAL:HG23	2.02	0.41
3:N:795:VAL:HA	3:N:861:GLN:O	2.20	0.41
9:N:9507:HOH:O	5:P:134:LYS:HA	2.20	0.41
2:M:1063:ARG:HG3	5:P:341:PRO:HG3	2.02	0.41
1:A:189:ARG:HG2	9:A:9613:HOH:O	2.21	0.41
1:A:35:THR:HG22	9:B:9638:HOH:O	2.20	0.41
1:B:7:LYS:HZ2	1:B:7:LYS:HB3	1.86	0.41
2:C:1052:MET:CE	2:C:1056:LYS:HD3	2.47	0.41
2:C:290:LEU:H	2:C:290:LEU:CD1	2.25	0.41
2:C:384:GLU:CA	2:C:388:ARG:HH21	2.34	0.41
2:C:438:ILE:HG23	2:C:453:THR:OG1	2.20	0.41
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	2.03	0.41
3:D:119:SER:O	3:D:121:THR:N	2.54	0.41
3:D:1258:ARG:HH11	3:D:1258:ARG:HG3	1.85	0.41
3:D:16:GLU:O	3:D:19:ARG:HB2	2.20	0.41
3:D:884:ARG:O	3:D:888:GLU:N	2.53	0.41
2:M:206:THR:HB	9:M:9651:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:462:ASP:OD1	2:M:463:GLU:N	2.54	0.41
2:M:502:PRO:HD3	9:M:2363:HOH:O	2.20	0.41
2:M:690:ILE:HG21	2:M:833:LEU:HD23	2.02	0.41
2:M:915:LYS:HD2	9:M:9311:HOH:O	2.20	0.41
2:M:958:THR:HG23	2:M:961:GLU:CG	2.51	0.41
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.36	0.41
3:N:1372:VAL:HA	3:N:1375:MET:HE2	2.01	0.41
3:N:190:GLU:HG3	3:N:210:ARG:CZ	2.50	0.41
3:N:141:ILE:HD11	3:N:431:VAL:O	2.20	0.41
3:N:13:ALA:O	3:N:511:TRP:HB3	2.21	0.41
3:N:644:LEU:HA	3:N:645:PRO:HD3	1.98	0.41
3:N:796:ARG:HD2	9:N:9384:HOH:O	2.20	0.41
3:N:799:LYS:HD2	9:N:2444:HOH:O	2.21	0.41
2:M:878:SER:HB3	8:N:9101:G4P:O2D	2.21	0.41
5:P:155:THR:HG22	5:P:159:ILE:HD11	2.03	0.41
9:N:9844:HOH:O	5:P:92:PRO:HD3	2.21	0.41
1:A:178:ALA:HB2	2:C:864:GLY:N	2.34	0.41
1:B:106:PRO:HD2	9:B:9677:HOH:O	2.20	0.41
1:B:189:ARG:HG3	9:B:9584:HOH:O	2.21	0.41
1:A:42:ARG:NE	1:B:35:THR:OG1	2.48	0.41
2:C:181:VAL:HG12	2:C:182:VAL:N	2.36	0.41
2:C:27:ARG:HG3	2:C:27:ARG:NH1	2.36	0.41
2:C:625:LEU:C	2:C:627:ARG:HH21	2.23	0.41
2:C:964:LYS:O	2:C:968:LEU:HG	2.20	0.41
3:D:100:ALA:N	9:D:2106:HOH:O	2.53	0.41
3:D:1105:ILE:HD13	9:D:9754:HOH:O	2.20	0.41
3:D:119:SER:HB2	3:D:123:LEU:CB	2.42	0.41
3:D:486:ARG:HA	3:D:489:ARG:HD3	2.03	0.41
3:D:520:LEU:O	3:D:525:ARG:NH1	2.54	0.41
3:D:761:ILE:HD11	9:E:9593:HOH:O	2.20	0.41
3:D:785:ILE:N	9:D:2202:HOH:O	2.53	0.41
3:D:789:LEU:HD11	3:D:934:LEU:HD22	2.02	0.41
3:D:780:LYS:NZ	3:D:912:LYS:HE3	2.36	0.41
2:C:889:HIS:CE1	3:D:951:ILE:H	2.28	0.41
4:E:25:LYS:HA	4:E:28:GLN:OE1	2.21	0.41
5:F:170:HIS:HA	5:F:173:TYR:HD1	1.85	0.41
5:F:320:PRO:HA	9:F:9771:HOH:O	2.20	0.41
1:K:128:HIS:O	1:K:129:ILE:HD13	2.20	0.41
1:K:165:ILE:HA	1:K:166:PRO:HD3	1.95	0.41
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.86	0.41
2:M:916:GLU:O	2:M:919:ALA:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1124:GLN:NE2	9:N:2426:HOH:O	2.53	0.41
3:N:162:ARG:HG2	9:N:9455:HOH:O	2.20	0.41
3:N:416:ALA:HB3	3:N:417:PRO:HD3	2.02	0.41
3:N:737:ASN:N	9:N:9545:HOH:O	2.51	0.41
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.35	0.41
4:O:87:LYS:HA	9:O:4487:HOH:O	2.20	0.41
5:P:115:LYS:HD2	5:P:118:GLU:OE2	2.21	0.41
5:P:276:ARG:HH11	5:P:276:ARG:HG3	1.86	0.41
1:A:156:HIS:CD2	1:A:157:GLY:H	2.39	0.41
1:B:100:LEU:HB2	1:B:115:LEU:HD21	2.03	0.41
2:C:405:ARG:HG2	2:C:405:ARG:HH11	1.85	0.41
2:C:493:ARG:HB2	2:C:494:TYR:CE1	2.55	0.41
2:C:784:ASP:HB2	9:C:2121:HOH:O	2.19	0.41
3:D:996:TRP:CD2	3:D:1056:PRO:HG3	2.56	0.41
3:D:1103:HIS:CG	3:D:1104:GLU:N	2.89	0.41
3:D:1123:PHE:CD1	3:D:1134:LEU:HA	2.56	0.41
3:D:1197:ARG:C	3:D:1199:GLY:H	2.24	0.41
3:D:1500:LYS:HA	9:D:9806:HOH:O	2.20	0.41
3:D:162:ARG:NH1	9:D:9697:HOH:O	2.50	0.41
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.51	0.41
3:D:527:MET:HE1	3:D:535:PHE:HB3	2.02	0.41
5:F:84:TYR:CD2	5:F:192:LEU:HD13	2.56	0.41
5:F:276:ARG:HD2	9:F:9563:HOH:O	2.21	0.41
5:F:361:LEU:HB3	9:F:9838:HOH:O	2.21	0.41
1:L:50:GLY:O	1:L:146:ARG:HA	2.20	0.41
2:M:166:PRO:HB2	9:M:9681:HOH:O	2.21	0.41
2:M:200:LEU:HD22	2:M:300:ASP:OD1	2.20	0.41
2:M:204:GLN:HB2	9:M:9986:HOH:O	2.20	0.41
2:M:397:GLU:N	2:M:633:GLN:OE1	2.54	0.41
2:M:504:GLU:HB2	9:M:9322:HOH:O	2.20	0.41
2:M:61:LYS:HB2	9:M:9741:HOH:O	2.20	0.41
2:M:710:ILE:HB	2:M:790:LEU:HB2	2.02	0.41
3:N:1033:GLN:HB2	9:N:2467:HOH:O	2.21	0.41
3:N:1379:VAL:O	3:N:1392:GLY:HA2	2.21	0.41
2:M:850:ALA:CB	3:N:632:VAL:HG13	2.51	0.41
3:N:823:LEU:HD11	9:N:2306:HOH:O	2.20	0.41
3:N:851:LEU:N	3:N:851:LEU:HD23	2.35	0.41
5:P:157:GLU:O	5:P:161:GLN:HG3	2.21	0.41
1:A:35:THR:CG2	9:B:9638:HOH:O	2.68	0.41
1:A:65:PHE:CE2	2:C:830:LYS:HG3	2.56	0.41
2:C:300:ASP:C	2:C:302:VAL:H	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.96	0.41
2:C:778:PHE:HE1	5:F:418:LEU:O	2.04	0.41
2:C:820:ARG:HH11	2:C:820:ARG:HG2	1.85	0.41
3:D:1384:PRO:HG3	3:D:1389:LEU:CA	2.51	0.41
3:D:172:PRO:HB3	3:D:178:LEU:HB2	2.03	0.41
3:D:235:ALA:HA	9:D:2001:HOH:O	2.20	0.41
3:D:36:THR:C	3:D:38:LYS:N	2.73	0.41
3:D:54:LYS:CD	3:D:55:ASP:H	2.27	0.41
3:D:652:LEU:HB3	3:D:653:PHE:HD1	1.86	0.41
3:D:785:ILE:HD12	9:D:2202:HOH:O	2.19	0.41
3:D:890:VAL:HG21	3:D:922:LEU:CD1	2.51	0.41
3:D:995:LEU:HD23	9:D:2129:HOH:O	2.21	0.41
5:F:110:MET:HG2	5:F:114:LYS:HE3	2.03	0.41
5:F:288:TYR:HA	5:F:291:ILE:HG22	2.03	0.41
1:K:18:ARG:CZ	1:K:88:ARG:HH21	2.34	0.41
1:L:10:VAL:O	1:L:12:THR:HG23	2.20	0.41
2:M:208:ALA:O	2:M:218:VAL:HG21	2.21	0.41
2:M:385:PHE:O	2:M:389:SER:HB3	2.21	0.41
2:M:721:ARG:HB2	2:M:759:THR:OG1	2.21	0.41
2:M:759:THR:HB	2:M:785:VAL:CG1	2.49	0.41
2:M:843:HIS:CD2	2:M:884:GLN:HA	2.56	0.41
3:N:1036:ARG:HD3	9:N:2161:HOH:O	2.21	0.41
3:N:1311:LEU:HD22	9:N:9440:HOH:O	2.19	0.41
3:N:457:GLY:HA3	3:N:568:ARG:HH12	1.86	0.41
3:N:589:ALA:N	9:N:2734:HOH:O	2.54	0.41
3:N:853:VAL:HG11	3:N:860:LEU:CD2	2.51	0.41
3:N:795:VAL:HG13	3:N:863:VAL:HG13	2.02	0.41
4:O:54:LEU:HA	4:O:58:PRO:HG2	2.03	0.41
5:P:153:PRO:HG2	5:P:154:LYS:H	1.86	0.41
5:P:292:ALA:HA	5:P:299:TRP:HB3	2.03	0.41
5:P:342:VAL:O	5:P:345:ALA:HB3	2.21	0.41
5:P:88:ILE:O	5:P:92:PRO:HG3	2.21	0.41
1:A:132:LEU:HD23	1:A:136:GLY:O	2.22	0.40
1:B:90:LEU:HD22	9:B:9609:HOH:O	2.21	0.40
2:C:162:ILE:O	2:C:164:PRO:HD3	2.21	0.40
2:C:193:LEU:HD12	2:C:307:LEU:HD22	2.03	0.40
2:C:266:ARG:HD3	2:C:288:ARG:NE	2.32	0.40
2:C:287:GLY:O	2:C:288:ARG:C	2.59	0.40
2:C:462:ASP:CG	2:C:468:ARG:HE	2.23	0.40
2:C:471:TYR:HE1	2:C:491:GLU:HG3	1.86	0.40
2:C:482:GLU:HG2	2:C:483:VAL:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:532:MET:HG3	2:C:533:ASP:N	2.36	0.40
2:C:628:PHE:HA	9:C:2384:HOH:O	2.21	0.40
2:C:927:GLY:HA3	9:C:2426:HOH:O	2.20	0.40
3:D:1097:LYS:HE2	9:D:9630:HOH:O	2.21	0.40
3:D:1093:TYR:O	3:D:1097:LYS:HG2	2.21	0.40
3:D:1112:CYS:HB2	9:D:9694:HOH:O	2.21	0.40
3:D:1343:ALA:N	9:D:9670:HOH:O	2.54	0.40
3:D:470:LEU:HD22	3:D:499:VAL:HG13	2.02	0.40
9:C:9574:HOH:O	3:D:582:LEU:HD21	2.21	0.40
3:D:764:LEU:HG	3:D:765:SER:N	2.36	0.40
3:D:998:GLU:HG2	9:D:3028:HOH:O	2.21	0.40
5:F:333:ILE:HA	5:F:334:PRO:HD3	1.81	0.40
1:K:5:LYS:NZ	9:K:1872:HOH:O	2.54	0.40
1:K:5:LYS:O	1:K:8:ALA:HB2	2.21	0.40
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.55	0.40
2:M:1086:ARG:HG3	2:M:1086:ARG:NH1	2.36	0.40
2:M:157:ARG:HB3	9:M:2325:HOH:O	2.21	0.40
2:M:197:LEU:CD1	2:M:207:LEU:HD11	2.52	0.40
2:M:321:GLU:HB3	9:M:9404:HOH:O	2.20	0.40
2:M:360:LEU:HD11	9:M:2160:HOH:O	2.19	0.40
2:M:44:ILE:HD12	2:M:44:ILE:N	2.36	0.40
2:M:577:PRO:HG3	2:M:993:PHE:CD1	2.56	0.40
3:N:128:TYR:O	3:N:568:ARG:NH2	2.54	0.40
3:N:1308:GLU:HG2	9:N:2487:HOH:O	2.21	0.40
3:N:221:ALA:HB3	3:N:367:ILE:CB	2.52	0.40
3:N:824:ASN:ND2	9:N:9277:HOH:O	2.53	0.40
5:P:94:LEU:HD12	5:P:97:GLU:CB	2.50	0.40
1:A:18:ARG:NH2	1:A:88:ARG:NH2	2.69	0.40
1:B:10:VAL:HG12	1:B:12:THR:HG23	2.02	0.40
2:C:140:ILE:HD11	2:C:412:ALA:HB2	2.03	0.40
2:C:300:ASP:HB2	2:C:303:PHE:CD1	2.56	0.40
2:C:358:ARG:NH2	2:C:373:VAL:N	2.66	0.40
2:C:686:ASP:N	9:C:2345:HOH:O	2.53	0.40
2:C:743:VAL:HG11	2:C:755:LEU:HD13	2.03	0.40
2:C:855:VAL:CG2	2:C:866:PRO:HG2	2.52	0.40
2:C:917:LEU:HG	9:C:9726:HOH:O	2.21	0.40
3:D:1198:TYR:OH	3:D:1394:VAL:HG21	2.21	0.40
3:D:1278:ASP:N	3:D:1278:ASP:OD1	2.54	0.40
3:D:493:ARG:HE	3:D:1389:LEU:HD21	1.86	0.40
3:D:211:VAL:HG12	3:D:212:ARG:N	2.36	0.40
3:D:70:GLY:HA3	9:D:2046:HOH:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:795:VAL:HA	3:D:861:GLN:O	2.22	0.40
5:F:256:ARG:HB3	9:F:9562:HOH:O	2.22	0.40
5:F:373:LYS:HA	5:F:378:GLY:C	2.42	0.40
5:F:396:ARG:HB2	9:F:9739:HOH:O	2.21	0.40
5:F:78:SER:O	5:F:82:ARG:HG3	2.21	0.40
1:K:18:ARG:CZ	9:K:2975:HOH:O	2.70	0.40
1:L:13:VAL:HG12	1:L:14:ARG:N	2.36	0.40
2:M:1107:ASN:HB3	9:M:9373:HOH:O	2.20	0.40
2:M:44:ILE:HG23	9:M:9747:HOH:O	2.20	0.40
2:M:609:ASN:HB3	9:M:9455:HOH:O	2.20	0.40
2:M:637:LEU:CD2	2:M:659:PRO:HG2	2.51	0.40
2:M:786:LYS:NZ	9:M:2081:HOH:O	2.54	0.40
3:N:1424:VAL:HG13	3:N:1425:THR:N	2.36	0.40
3:N:671:LYS:HE3	5:P:421:PHE:O	2.22	0.40
3:N:736:PHE:HA	9:N:9545:HOH:O	2.21	0.40
3:N:55:ASP:O	3:N:82:LYS:HA	2.22	0.40
3:N:935:LYS:HG2	3:N:939:PHE:CE1	2.57	0.40
5:P:110:MET:HE2	9:P:2076:HOH:O	2.20	0.40
5:P:208:SER:HB2	5:P:211:ASP:OD1	2.20	0.40
1:A:146:ARG:HG3	9:A:9628:HOH:O	2.21	0.40
1:A:5:LYS:O	1:A:8:ALA:HB2	2.21	0.40
1:A:68:ILE:O	1:A:71:VAL:HB	2.21	0.40
1:B:81:ASN:ND2	9:B:9670:HOH:O	2.54	0.40
2:C:117:HIS:HB2	9:C:2237:HOH:O	2.21	0.40
2:C:280:LYS:HB3	9:C:2065:HOH:O	2.21	0.40
2:C:442:GLU:HG3	9:C:9844:HOH:O	2.21	0.40
2:C:473:ARG:HH11	2:C:473:ARG:HG2	1.86	0.40
2:C:636:ALA:C	2:C:637:LEU:HD23	2.41	0.40
3:D:1159:ARG:NH1	3:D:1159:ARG:HG3	2.35	0.40
3:D:1282:ARG:HA	3:D:1315:ASP:OD1	2.22	0.40
3:D:806:PHE:HE1	3:D:813:LEU:HB3	1.84	0.40
4:E:35:PHE:HE2	4:E:63:TRP:CD2	2.40	0.40
5:F:234:LYS:CD	5:F:236:SER:HB2	2.49	0.40
2:C:1014:SER:HB2	5:F:331:ASP:OD1	2.21	0.40
1:K:100:LEU:HD11	9:K:7148:HOH:O	2.22	0.40
1:L:104:GLU:HA	1:L:136:GLY:O	2.21	0.40
1:L:17:GLY:C	1:L:19:GLU:H	2.25	0.40
2:M:44:ILE:HD12	2:M:44:ILE:H	1.86	0.40
2:M:49:ARG:HG2	9:M:2240:HOH:O	2.21	0.40
2:M:575:GLN:HE21	2:M:671:ASN:HD22	1.69	0.40
2:M:719:PRO:HG3	9:M:9740:HOH:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:724:ARG:HD2	2:M:738:ASP:O	2.21	0.40
2:M:737:LEU:O	2:M:738:ASP:C	2.59	0.40
3:N:115:LEU:HD12	9:N:9458:HOH:O	2.21	0.40
3:N:1345:GLU:HG2	3:N:1376:MET:SD	2.62	0.40
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.51	0.40
3:N:416:ALA:HA	3:N:442:ASN:ND2	2.36	0.40
3:N:456:MET:CG	3:N:568:ARG:HD3	2.51	0.40
3:N:96:ALA:CB	3:N:554:LEU:HG	2.51	0.40
3:N:85:VAL:HG12	3:N:89:ARG:NE	2.36	0.40
3:N:930:LEU:HD12	3:N:930:LEU:O	2.21	0.40
3:N:983:LEU:HG	9:N:2329:HOH:O	2.21	0.40
4:O:40:LEU:HG	4:O:67:GLU:HG2	2.04	0.40
5:P:364:ARG:O	5:P:368:VAL:HG23	2.22	0.40
3:N:64:LYS:HD3	5:P:376:ILE:O	2.21	0.40
5:P:392:VAL:CG1	5:P:396:ARG:HB2	2.51	0.40
1:A:76:VAL:HA	1:A:79:ILE:HG12	2.03	0.40
1:B:170:VAL:N	9:B:9602:HOH:O	2.54	0.40
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.57	0.40
2:C:122:THR:HG22	2:C:123:GLU:N	2.37	0.40
2:C:427:VAL:HG22	9:C:2153:HOH:O	2.20	0.40
2:C:432:ARG:HG2	2:C:432:ARG:H	1.50	0.40
2:C:551:GLU:HB2	9:C:9690:HOH:O	2.21	0.40
3:D:116:LEU:C	3:D:118:LEU:HD13	2.41	0.40
3:D:586:ARG:NE	9:D:2208:HOH:O	2.48	0.40
3:D:683:ILE:HB	9:D:9721:HOH:O	2.22	0.40
3:D:80:VAL:HA	9:D:9665:HOH:O	2.21	0.40
3:D:836:VAL:HA	3:D:839:LEU:HD12	2.03	0.40
3:D:789:LEU:CD1	3:D:934:LEU:HD22	2.51	0.40
3:D:995:LEU:HB3	9:D:2129:HOH:O	2.20	0.40
5:F:93:LEU:HD11	5:F:187:LEU:HA	2.03	0.40
5:F:215:GLU:HA	5:F:215:GLU:OE1	2.21	0.40
1:K:196:THR:HG23	1:K:196:THR:O	2.20	0.40
1:K:57:TYR:CG	1:K:161:ARG:HD3	2.56	0.40
1:L:198:ARG:HG2	9:L:1453:HOH:O	2.21	0.40
1:L:206:THR:HG22	1:L:209:GLU:H	1.86	0.40
2:M:413:LEU:HD22	9:M:2205:HOH:O	2.22	0.40
2:M:473:ARG:HH21	2:M:484:VAL:HG21	1.86	0.40
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	2.02	0.40
3:N:1087:ARG:HE	3:N:1238:MET:CB	2.34	0.40
3:N:116:LEU:HB3	3:N:118:LEU:CD1	2.41	0.40
3:N:126:VAL:HG13	3:N:132:TYR:CB	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:239:GLY:HA2	9:N:9367:HOH:O	2.21	0.40
3:N:601:ARG:NH2	3:N:613:ARG:NH2	2.69	0.40
9:M:2038:HOH:O	3:N:680:GLN:HB2	2.22	0.40
3:N:704:ARG:CG	3:N:705:ALA:N	2.84	0.40
4:O:10:PHE:O	4:O:13:VAL:HG22	2.22	0.40
4:O:25:LYS:HA	4:O:28:GLN:CD	2.41	0.40
5:P:253:ASP:HB3	5:P:259:ARG:NH2	2.36	0.40
5:P:294:ALA:HA	9:P:4602:HOH:O	2.21	0.40
2:C:165:LEU:HD12	2:C:166:PRO:CA	2.51	0.40
2:C:216:GLU:O	2:C:219:GLN:HG3	2.21	0.40
2:C:420:ARG:HA	9:C:2134:HOH:O	2.20	0.40
2:C:435:TYR:HD1	3:D:1071:PHE:CE2	2.40	0.40
2:C:724:ARG:O	2:C:734:LEU:HD11	2.21	0.40
2:C:739:GLU:N	9:C:9982:HOH:O	2.55	0.40
2:C:829:GLN:HB2	9:C:9705:HOH:O	2.20	0.40
3:D:1192:LEU:N	9:D:9658:HOH:O	2.54	0.40
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.56	0.40
3:D:1440:PHE:O	3:D:1443:THR:HG23	2.21	0.40
3:D:1489:GLN:HA	3:D:1489:GLN:NE2	2.35	0.40
3:D:175:VAL:HG21	9:D:3255:HOH:O	2.21	0.40
3:D:554:LEU:O	3:D:557:LEU:HB2	2.20	0.40
3:D:702:LEU:N	3:D:702:LEU:HD12	2.36	0.40
3:D:729:HIS:CE1	3:D:730:PRO:HG2	2.57	0.40
5:F:281:GLU:HB2	9:F:9741:HOH:O	2.21	0.40
5:F:316:SER:HB3	5:F:319:THR:OG1	2.22	0.40
1:K:85:LEU:HD12	1:K:124:ASN:CB	2.51	0.40
1:K:185:ARG:O	1:K:185:ARG:HD2	2.22	0.40
1:K:9:PRO:HD2	1:L:224:TYR:CG	2.56	0.40
2:M:1005:MET:HG3	3:N:629:SER:CB	2.44	0.40
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.52	0.40
2:M:631:SER:OG	2:M:635:THR:N	2.55	0.40
2:M:722:ILE:HD12	2:M:823:VAL:HG21	2.03	0.40
2:M:837:ASP:O	2:M:849:VAL:HG23	2.21	0.40
2:M:881:ASN:N	2:M:881:ASN:HD22	2.11	0.40
2:M:906:PHE:CD1	3:N:1067:VAL:HG22	2.57	0.40
2:M:958:THR:O	2:M:962:GLN:HG3	2.22	0.40
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.56	0.40
3:N:1121:PRO:HG3	9:N:9490:HOH:O	2.21	0.40
3:N:1378:TYR:CE2	3:N:1394:VAL:HG22	2.56	0.40
3:N:1417:TRP:HA	9:N:9243:HOH:O	2.21	0.40
3:N:1478:SER:O	3:N:1480:PHE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:190:GLU:HG3	3:N:210:ARG:NH1	2.35	0.40
3:N:49:ILE:HD13	9:N:9259:HOH:O	2.22	0.40
5:P:329:TYR:CE2	5:P:333:ILE:HD11	2.57	0.40
5:P:350:LEU:HG	5:P:354:LEU:CD1	2.50	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	187 (82%)	33 (14%)	7 (3%)	4	9
1	B	227/315 (72%)	183 (81%)	38 (17%)	6 (3%)	5	13
1	K	227/315 (72%)	186 (82%)	32 (14%)	9 (4%)	3	6
1	L	227/315 (72%)	185 (82%)	37 (16%)	5 (2%)	6	17
2	C	1117/1119 (100%)	856 (77%)	194 (17%)	67 (6%)	1	2
2	M	1117/1119 (100%)	863 (77%)	187 (17%)	67 (6%)	1	2
3	D	1388/1524 (91%)	1047 (75%)	248 (18%)	93 (7%)	1	1
3	N	1388/1524 (91%)	1042 (75%)	251 (18%)	95 (7%)	1	1
4	E	93/99 (94%)	72 (77%)	11 (12%)	10 (11%)	0	0
4	O	93/99 (94%)	70 (75%)	13 (14%)	10 (11%)	0	0
5	F	341/423 (81%)	264 (77%)	53 (16%)	24 (7%)	1	1
5	P	341/423 (81%)	267 (78%)	53 (16%)	21 (6%)	1	2
All	All	6786/7590 (89%)	5222 (77%)	1150 (17%)	414 (6%)	1	2

All (414) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	118	ALA
1	A	188	GLN
1	B	118	ALA
2	C	10	ARG
2	C	59	LYS
2	C	111	ASP
2	C	152	PRO
2	C	178	PRO
2	C	231	PRO
2	C	244	PRO
2	C	251	ASP
2	C	253	ALA
2	C	261	ILE
2	C	265	ARG
2	C	267	TYR
2	C	290	LEU
2	C	316	GLY
2	C	363	SER
2	C	369	PRO
2	C	419	THR
2	C	462	ASP
2	C	518	LYS
2	C	627	ARG
2	C	684	PHE
2	C	735	ARG
2	C	738	ASP
2	C	740	GLU
2	C	762	LYS
2	C	864	GLY
2	C	905	ILE
3	D	55	ASP
3	D	83	SER
3	D	98	PRO
3	D	120	ALA
3	D	136	ASP
3	D	140	ALA
3	D	177	ALA
3	D	208	PRO
3	D	209	ARG
3	D	233	LYS
3	D	234	GLU
3	D	238	PRO
3	D	246	PRO

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Mol	Chain	Res	Type
3	D	370	ALA
3	D	373	PRO
3	D	385	VAL
3	D	417	PRO
3	D	487	ALA
3	D	807	ALA
3	D	832	ARG
3	D	1028	ALA
3	D	1125	PRO
3	D	1197	ARG
3	D	1208	ASP
3	D	1243	THR
3	D	1388	ARG
3	D	1389	LEU
3	D	1390	LEU
4	E	42	PRO
4	E	58	PRO
5	F	75	ILE
5	F	76	SER
5	F	77	THR
5	F	145	PRO
5	F	148	LYS
5	F	153	PRO
5	F	297	PRO
5	F	324	GLU
5	F	341	PRO
5	F	364	ARG
5	F	390	PHE
1	K	118	ALA
1	K	187	GLY
1	L	118	ALA
2	M	10	ARG
2	M	59	LYS
2	M	111	ASP
2	M	152	PRO
2	M	178	PRO
2	M	231	PRO
2	M	244	PRO
2	M	251	ASP
2	M	253	ALA
2	M	261	ILE
2	M	265	ARG

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Mol	Chain	Res	Type
2	M	267	TYR
2	M	290	LEU
2	M	316	GLY
2	M	363	SER
2	M	369	PRO
2	M	419	THR
2	M	462	ASP
2	M	518	LYS
2	M	627	ARG
2	M	684	PHE
2	M	735	ARG
2	M	738	ASP
2	M	740	GLU
2	M	762	LYS
2	M	864	GLY
2	M	905	ILE
3	N	40	GLU
3	N	55	ASP
3	N	120	ALA
3	N	136	ASP
3	N	140	ALA
3	N	177	ALA
3	N	208	PRO
3	N	209	ARG
3	N	233	LYS
3	N	234	GLU
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	385	VAL
3	N	417	PRO
3	N	487	ALA
3	N	807	ALA
3	N	832	ARG
3	N	1028	ALA
3	N	1066	THR
3	N	1125	PRO
3	N	1197	ARG
3	N	1208	ASP
3	N	1243	THR
3	N	1287	GLU

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Mol	Chain	Res	Type
3	N	1389	LEU
3	N	1390	LEU
4	O	42	PRO
4	O	58	PRO
5	P	75	ILE
5	P	76	SER
5	P	77	THR
5	P	145	PRO
5	P	148	LYS
5	P	153	PRO
5	P	232	ARG
5	P	297	PRO
5	P	324	GLU
5	P	341	PRO
5	P	364	ARG
5	P	390	PHE
1	A	11	PHE
1	A	187	GLY
1	A	191	ASP
2	C	7	GLY
2	C	11	GLU
2	C	129	ILE
2	C	144	PRO
2	C	262	ALA
2	C	288	ARG
2	C	292	ARG
2	C	465	GLY
2	C	548	PRO
2	C	575	GLN
2	C	598	GLU
2	C	626	ARG
2	C	727	PRO
2	C	1005	MET
2	C	1016	ILE
2	C	1106	ASP
3	D	37	LEU
3	D	40	GLU
3	D	43	GLY
3	D	88	TYR
3	D	119	SER
3	D	135	LEU
3	D	202	VAL

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Mol	Chain	Res	Type
3	D	424	GLY
3	D	440	VAL
3	D	601	ARG
3	D	782	SER
3	D	1066	THR
3	D	1067	VAL
3	D	1111	ASP
3	D	1127	GLU
3	D	1129	THR
3	D	1265	ALA
3	D	1287	GLU
3	D	1475	GLY
4	E	43	GLU
5	F	147	LEU
5	F	232	ARG
5	F	255	ALA
1	K	188	GLN
2	M	7	GLY
2	M	11	GLU
2	M	23	VAL
2	M	129	ILE
2	M	130	ASN
2	M	262	ALA
2	M	292	ARG
2	M	465	GLY
2	M	548	PRO
2	M	598	GLU
2	M	626	ARG
2	M	727	PRO
2	M	1005	MET
2	M	1016	ILE
2	M	1106	ASP
3	N	37	LEU
3	N	43	GLY
3	N	82	LYS
3	N	83	SER
3	N	88	TYR
3	N	98	PRO
3	N	119	SER
3	N	135	LEU
3	N	202	VAL
3	N	217	LYS

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Mol	Chain	Res	Type
3	N	424	GLY
3	N	440	VAL
3	N	601	ARG
3	N	782	SER
3	N	1067	VAL
3	N	1089	ALA
3	N	1111	ASP
3	N	1127	GLU
3	N	1137	ARG
3	N	1265	ALA
3	N	1385	GLY
3	N	1388	ARG
3	N	1475	GLY
4	O	43	GLU
5	P	95	THR
5	P	420	ASP
2	C	130	ASN
2	C	164	PRO
2	C	170	PRO
2	C	457	ALA
2	C	739	GLU
2	C	767	PRO
2	C	1079	PRO
3	D	110	SER
3	D	115	LEU
3	D	117	ASP
3	D	137	PRO
3	D	190	GLU
3	D	410	SER
3	D	416	ALA
3	D	504	ASP
3	D	521	PRO
3	D	594	PRO
3	D	705	ALA
3	D	922	LEU
3	D	1089	ALA
3	D	1385	GLY
3	D	1429	LEU
4	E	5	GLY
4	E	33	HIS
4	E	41	GLU
4	E	46	PRO

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Mol	Chain	Res	Type
5	F	95	THR
5	F	286	PRO
5	F	420	ASP
5	F	421	PHE
1	K	11	PHE
1	L	191	ASP
2	M	144	PRO
2	M	164	PRO
2	M	170	PRO
2	M	223	ASP
2	M	288	ARG
2	M	381	ALA
2	M	457	ALA
2	M	699	PHE
2	M	739	GLU
2	M	767	PRO
3	N	115	LEU
3	N	137	PRO
3	N	189	GLN
3	N	206	ARG
3	N	410	SER
3	N	416	ALA
3	N	594	PRO
3	N	705	ALA
3	N	869	MET
3	N	922	LEU
3	N	1429	LEU
4	O	5	GLY
4	O	33	HIS
4	O	41	GLU
4	O	46	PRO
5	P	147	LEU
5	P	255	ALA
5	P	285	GLU
5	P	286	PRO
5	P	329	TYR
1	A	59	GLU
1	B	11	PHE
1	B	59	GLU
1	B	191	ASP
2	C	23	VAL
2	C	277	ALA

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Mol	Chain	Res	Type
2	C	381	ALA
2	C	415	PRO
2	C	699	PHE
3	D	31	THR
3	D	82	LYS
3	D	189	GLN
3	D	206	ARG
3	D	381	ALA
3	D	560	GLN
3	D	808	THR
3	D	869	MET
3	D	919	PHE
3	D	1051	GLU
3	D	1155	VAL
3	D	1248	GLY
3	D	1288	GLU
4	E	82	GLU
5	F	155	THR
5	F	285	GLU
5	F	329	TYR
1	K	59	GLU
1	K	191	ASP
1	L	11	PHE
1	L	59	GLU
2	M	277	ALA
2	M	415	PRO
2	M	1079	PRO
3	N	110	SER
3	N	133	ILE
3	N	149	LYS
3	N	190	GLU
3	N	504	ASP
3	N	521	PRO
3	N	560	GLN
3	N	801	GLY
3	N	806	PHE
3	N	808	THR
3	N	936	TYR
3	N	1051	GLU
3	N	1155	VAL
3	N	1248	GLY
5	P	416	ARG

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Mol	Chain	Res	Type
1	A	106	PRO
1	B	106	PRO
2	C	113	VAL
2	C	180	GLY
2	C	377	PRO
3	D	149	LYS
3	D	522	PRO
3	D	801	GLY
3	D	822	ALA
4	E	32	ARG
4	E	57	ASP
5	F	97	GLU
5	F	416	ARG
1	K	93	SER
1	K	106	PRO
2	M	180	GLY
2	M	434	HIS
2	M	1004	LYS
3	N	31	THR
3	N	522	PRO
3	N	822	ALA
3	N	919	PHE
3	N	945	SER
3	N	1019	PRO
4	O	32	ARG
4	O	57	ASP
4	O	82	GLU
2	C	202	TYR
2	C	1020	PRO
3	D	133	ILE
3	D	138	LYS
3	D	936	TYR
3	D	1213	ARG
1	K	172	SER
1	L	106	PRO
2	M	113	VAL
2	M	377	PRO
2	M	575	GLN
3	N	117	ASP
3	N	381	ALA
3	N	406	ASP
3	N	1205	TYR

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Mol	Chain	Res	Type
3	N	1213	ARG
5	P	167	PRO
2	C	779	GLY
3	D	245	LEU
3	D	509	PRO
3	D	1019	PRO
5	F	167	PRO
2	M	777	ILE
2	M	779	GLY
1	B	48	ILE
2	C	42	VAL
3	D	141	ILE
2	M	1020	PRO
3	N	245	LEU
2	C	811	PRO
2	C	876	VAL
3	D	175	VAL
2	M	42	VAL
2	M	876	VAL
3	N	78	VAL
3	N	108	VAL
3	N	141	ILE
3	N	173	PRO
2	C	777	ILE
3	D	78	VAL
3	D	425	GLY
3	D	670	VAL
3	N	425	GLY
3	N	526	PRO
2	C	1060	ILE
3	D	52	PRO
3	D	530	VAL
3	N	175	VAL
2	M	166	PRO
2	C	166	PRO

5.3.2 Protein sidechains ⓘ

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

The Analysed column shows the number of residues for which the sidechain conformation was

analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	181 (90%)	21 (10%)	7	16
1	B	202/273 (74%)	186 (92%)	16 (8%)	12	28
1	K	202/273 (74%)	187 (93%)	15 (7%)	13	32
1	L	202/273 (74%)	190 (94%)	12 (6%)	19	43
2	C	941/941 (100%)	827 (88%)	114 (12%)	5	11
2	M	941/941 (100%)	838 (89%)	103 (11%)	6	14
3	D	1123/1279 (88%)	992 (88%)	131 (12%)	5	12
3	N	1123/1279 (88%)	987 (88%)	136 (12%)	5	11
4	E	83/87 (95%)	73 (88%)	10 (12%)	5	11
4	O	83/87 (95%)	73 (88%)	10 (12%)	5	11
5	F	295/370 (80%)	263 (89%)	32 (11%)	6	15
5	P	295/370 (80%)	273 (92%)	22 (8%)	13	31
All	All	5692/6446 (88%)	5070 (89%)	622 (11%)	6	14

All (622) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ASP
1	A	5	LYS
1	A	9	PRO
1	A	15	THR
1	A	26	GLU
1	A	62	LEU
1	A	92	PRO
1	A	95	GLN
1	A	96	THR
1	A	124	ASN
1	A	145	ASP
1	A	146	ARG
1	A	156	HIS
1	A	160	ASP
1	A	170	VAL
1	A	185	ARG
1	A	196	THR
1	A	197	LEU
1	A	206	THR
1	A	208	LEU

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Mol	Chain	Res	Type
1	A	227	ASN
1	B	7	LYS
1	B	9	PRO
1	B	26	GLU
1	B	62	LEU
1	B	95	GLN
1	B	96	THR
1	B	119	ASP
1	B	124	ASN
1	B	134	GLU
1	B	138	LEU
1	B	140	MET
1	B	145	ASP
1	B	159	LYS
1	B	160	ASP
1	B	189	ARG
1	B	206	THR
2	C	6	PHE
2	C	8	ARG
2	C	26	TYR
2	C	30	LEU
2	C	41	ASN
2	C	48	PHE
2	C	52	PHE
2	C	81	ASP
2	C	87	ASP
2	C	95	TYR
2	C	107	LEU
2	C	113	VAL
2	C	114	PHE
2	C	115	LEU
2	C	118	ILE
2	C	134	ARG
2	C	152	PRO
2	C	157	ARG
2	C	158	TYR
2	C	163	ILE
2	C	168	ARG
2	C	178	PRO
2	C	184	MET
2	C	186	VAL
2	C	190	LYS

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Mol	Chain	Res	Type
2	C	198	ARG
2	C	203	ASP
2	C	207	LEU
2	C	216	GLU
2	C	217	LEU
2	C	218	VAL
2	C	224	GLU
2	C	243	ARG
2	C	246	ASP
2	C	247	PRO
2	C	256	TYR
2	C	261	ILE
2	C	266	ARG
2	C	268	ASP
2	C	281	LEU
2	C	288	ARG
2	C	289	THR
2	C	290	LEU
2	C	309	TYR
2	C	321	GLU
2	C	333	ILE
2	C	344	PHE
2	C	359	MET
2	C	367	LEU
2	C	388	ARG
2	C	389	SER
2	C	393	GLN
2	C	402	SER
2	C	418	LEU
2	C	420	ARG
2	C	425	PHE
2	C	432	ARG
2	C	455	LEU
2	C	460	ARG
2	C	469	THR
2	C	471	TYR
2	C	500	ASN
2	C	507	ARG
2	C	527	GLU
2	C	533	ASP
2	C	559	LEU
2	C	564	MET

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Mol	Chain	Res	Type
2	C	579	VAL
2	C	584	GLU
2	C	620	LEU
2	C	627	ARG
2	C	637	LEU
2	C	640	ARG
2	C	645	VAL
2	C	650	ARG
2	C	657	ASP
2	C	689	VAL
2	C	693	GLU
2	C	699	PHE
2	C	701	THR
2	C	719	PRO
2	C	727	PRO
2	C	739	GLU
2	C	744	ARG
2	C	755	LEU
2	C	773	LEU
2	C	785	VAL
2	C	807	ARG
2	C	815	LEU
2	C	824	ARG
2	C	841	ASN
2	C	862	PRO
2	C	865	THR
2	C	881	ASN
2	C	886	LEU
2	C	887	GLU
2	C	900	ARG
2	C	917	LEU
2	C	934	PHE
2	C	945	ARG
2	C	950	LEU
2	C	952	LEU
2	C	959	PRO
2	C	962	GLN
2	C	982	PRO
2	C	988	VAL
2	C	999	HIS
2	C	1003	ASP
2	C	1016	ILE

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Mol	Chain	Res	Type
2	C	1017	THR
2	C	1019	GLN
2	C	1020	PRO
2	C	1052	MET
2	C	1115	LEU
3	D	3	LYS
3	D	6	ARG
3	D	12	LEU
3	D	25	GLU
3	D	27	GLU
3	D	42	ASP
3	D	56	TYR
3	D	66	GLN
3	D	76	CYS
3	D	87	ARG
3	D	98	PRO
3	D	103	TRP
3	D	121	THR
3	D	127	LEU
3	D	135	LEU
3	D	136	ASP
3	D	145	VAL
3	D	149	LYS
3	D	152	LEU
3	D	163	TYR
3	D	168	THR
3	D	169	TYR
3	D	171	LEU
3	D	185	VAL
3	D	199	LEU
3	D	208	PRO
3	D	389	GLU
3	D	393	ILE
3	D	403	PHE
3	D	423	ASP
3	D	426	LYS
3	D	445	ARG
3	D	447	VAL
3	D	456	MET
3	D	465	LEU
3	D	476	GLU
3	D	486	ARG

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Mol	Chain	Res	Type
3	D	488	ARG
3	D	521	PRO
3	D	523	ASP
3	D	528	VAL
3	D	554	LEU
3	D	569	ASN
3	D	594	PRO
3	D	602	SER
3	D	605	ASP
3	D	624	ASP
3	D	626	SER
3	D	629	SER
3	D	635	PRO
3	D	651	GLU
3	D	662	GLU
3	D	676	MET
3	D	679	ARG
3	D	685	ASP
3	D	710	ARG
3	D	725	SER
3	D	727	GLN
3	D	754	PHE
3	D	770	LEU
3	D	781	PRO
3	D	782	SER
3	D	792	ILE
3	D	794	GLN
3	D	796	ARG
3	D	828	LYS
3	D	829	VAL
3	D	834	THR
3	D	863	VAL
3	D	865	THR
3	D	873	LEU
3	D	899	LEU
3	D	904	VAL
3	D	935	LYS
3	D	961	LYS
3	D	986	ARG
3	D	988	ARG
3	D	1029	ARG
3	D	1044	LEU

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Mol	Chain	Res	Type
3	D	1046	GLN
3	D	1058	ARG
3	D	1062	ARG
3	D	1096	ARG
3	D	1097	LYS
3	D	1109	GLU
3	D	1112	CYS
3	D	1127	GLU
3	D	1134	LEU
3	D	1135	ARG
3	D	1152	GLU
3	D	1159	ARG
3	D	1166	LEU
3	D	1182	GLU
3	D	1183	ILE
3	D	1194	CYS
3	D	1196	THR
3	D	1207	TYR
3	D	1209	LEU
3	D	1211	MET
3	D	1213	ARG
3	D	1231	GLU
3	D	1238	MET
3	D	1243	THR
3	D	1252	ILE
3	D	1253	THR
3	D	1257	PRO
3	D	1267	ARG
3	D	1278	ASP
3	D	1285	GLU
3	D	1299	PHE
3	D	1304	LYS
3	D	1306	PRO
3	D	1314	LYS
3	D	1315	ASP
3	D	1317	ASP
3	D	1326	THR
3	D	1337	GLU
3	D	1344	VAL
3	D	1346	ARG
3	D	1375	MET
3	D	1388	ARG

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Mol	Chain	Res	Type
3	D	1389	LEU
3	D	1390	LEU
3	D	1396	GLU
3	D	1406	ARG
3	D	1412	LYS
3	D	1427	SER
3	D	1432	LYS
3	D	1434	TRP
3	D	1442	ASN
3	D	1487	VAL
4	E	42	PRO
4	E	46	PRO
4	E	47	LYS
4	E	51	LEU
4	E	57	ASP
4	E	58	PRO
4	E	59	ASN
4	E	61	GLU
4	E	66	LYS
4	E	79	LEU
5	F	84	TYR
5	F	87	GLU
5	F	94	LEU
5	F	120	THR
5	F	124	PRO
5	F	125	ASP
5	F	142	ARG
5	F	149	GLU
5	F	156	VAL
5	F	174	LEU
5	F	203	THR
5	F	234	LYS
5	F	280	GLN
5	F	282	LEU
5	F	285	GLU
5	F	295	MET
5	F	297	PRO
5	F	307	THR
5	F	312	GLN
5	F	341	PRO
5	F	347	GLN
5	F	352	GLU

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Mol	Chain	Res	Type
5	F	361	LEU
5	F	362	SER
5	F	364	ARG
5	F	370	LYS
5	F	375	LEU
5	F	392	VAL
5	F	396	ARG
5	F	398	ARG
5	F	405	LEU
5	F	409	LYS
1	K	12	THR
1	K	15	THR
1	K	26	GLU
1	K	62	LEU
1	K	95	GLN
1	K	96	THR
1	K	124	ASN
1	K	143	ARG
1	K	146	ARG
1	K	167	VAL
1	K	186	LEU
1	K	201	THR
1	K	216	GLU
1	K	223	THR
1	K	227	ASN
1	L	1	MET
1	L	2	LEU
1	L	3	ASP
1	L	5	LYS
1	L	26	GLU
1	L	62	LEU
1	L	95	GLN
1	L	96	THR
1	L	124	ASN
1	L	145	ASP
1	L	189	ARG
1	L	196	THR
2	M	26	TYR
2	M	28	ARG
2	M	30	LEU
2	M	31	GLN
2	M	34	VAL

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Mol	Chain	Res	Type
2	M	39	ARG
2	M	41	ASN
2	M	52	PHE
2	M	68	PHE
2	M	107	LEU
2	M	115	LEU
2	M	129	ILE
2	M	144	PRO
2	M	147	TYR
2	M	152	PRO
2	M	158	TYR
2	M	167	LYS
2	M	168	ARG
2	M	170	PRO
2	M	178	PRO
2	M	185	LYS
2	M	186	VAL
2	M	189	ARG
2	M	194	VAL
2	M	198	ARG
2	M	203	ASP
2	M	207	LEU
2	M	209	ARG
2	M	216	GLU
2	M	221	LEU
2	M	230	ARG
2	M	243	ARG
2	M	254	VAL
2	M	256	TYR
2	M	257	VAL
2	M	288	ARG
2	M	290	LEU
2	M	309	TYR
2	M	328	LEU
2	M	333	ILE
2	M	343	GLN
2	M	359	MET
2	M	384	GLU
2	M	393	GLN
2	M	397	GLU
2	M	407	LYS
2	M	418	LEU

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Mol	Chain	Res	Type
2	M	420	ARG
2	M	426	ASP
2	M	432	ARG
2	M	455	LEU
2	M	481	ASP
2	M	503	LEU
2	M	523	ILE
2	M	533	ASP
2	M	542	VAL
2	M	548	PRO
2	M	564	MET
2	M	607	ASP
2	M	609	ASN
2	M	620	LEU
2	M	629	TYR
2	M	633	GLN
2	M	650	ARG
2	M	663	ASN
2	M	678	PRO
2	M	679	PHE
2	M	680	ASP
2	M	686	ASP
2	M	701	THR
2	M	716	LYS
2	M	727	PRO
2	M	728	HIS
2	M	729	LEU
2	M	737	LEU
2	M	750	LYS
2	M	765	SER
2	M	774	LEU
2	M	785	VAL
2	M	799	ILE
2	M	839	LEU
2	M	841	ASN
2	M	848	VAL
2	M	865	THR
2	M	871	LEU
2	M	876	VAL
2	M	881	ASN
2	M	886	LEU
2	M	928	LYS

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Mol	Chain	Res	Type
2	M	937	ASP
2	M	948	GLU
2	M	950	LEU
2	M	958	THR
2	M	981	GLU
2	M	984	GLU
2	M	988	VAL
2	M	1015	LEU
2	M	1026	GLN
2	M	1057	SER
2	M	1079	PRO
2	M	1098	ASP
2	M	1110	ASP
2	M	1119	ARG
3	N	12	LEU
3	N	19	ARG
3	N	23	TYR
3	N	25	GLU
3	N	34	TYR
3	N	47	GLU
3	N	65	ARG
3	N	71	LYS
3	N	76	CYS
3	N	98	PRO
3	N	109	PRO
3	N	115	LEU
3	N	122	GLU
3	N	126	VAL
3	N	128	TYR
3	N	131	LYS
3	N	135	LEU
3	N	138	LYS
3	N	142	LEU
3	N	143	ASN
3	N	145	VAL
3	N	149	LYS
3	N	154	THR
3	N	155	ASP
3	N	168	THR
3	N	185	VAL
3	N	190	GLU
3	N	197	SER

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Mol	Chain	Res	Type
3	N	199	LEU
3	N	205	TYR
3	N	208	PRO
3	N	394	LEU
3	N	403	PHE
3	N	406	ASP
3	N	432	TYR
3	N	442	ASN
3	N	445	ARG
3	N	452	ILE
3	N	456	MET
3	N	474	GLU
3	N	502	PHE
3	N	503	LEU
3	N	510	GLU
3	N	513	ILE
3	N	521	PRO
3	N	549	ASN
3	N	554	LEU
3	N	581	LEU
3	N	594	PRO
3	N	601	ARG
3	N	602	SER
3	N	604	THR
3	N	605	ASP
3	N	611	GLN
3	N	624	ASP
3	N	644	LEU
3	N	660	LYS
3	N	676	MET
3	N	679	ARG
3	N	681	ARG
3	N	682	ASP
3	N	703	ASN
3	N	707	THR
3	N	709	HIS
3	N	711	LEU
3	N	722	GLU
3	N	724	GLN
3	N	737	ASN
3	N	739	ASP
3	N	754	PHE

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Mol	Chain	Res	Type
3	N	794	GLN
3	N	800	LYS
3	N	828	LYS
3	N	845	ASN
3	N	847	ASP
3	N	859	ASP
3	N	863	VAL
3	N	864	VAL
3	N	865	THR
3	N	879	ARG
3	N	880	ILE
3	N	897	TRP
3	N	899	LEU
3	N	902	LEU
3	N	907	GLU
3	N	919	PHE
3	N	942	SER
3	N	951	ILE
3	N	970	LYS
3	N	1005	GLN
3	N	1029	ARG
3	N	1045	MET
3	N	1058	ARG
3	N	1062	ARG
3	N	1066	THR
3	N	1068	LEU
3	N	1083	ASP
3	N	1087	ARG
3	N	1096	ARG
3	N	1109	GLU
3	N	1112	CYS
3	N	1124	GLN
3	N	1127	GLU
3	N	1134	LEU
3	N	1137	ARG
3	N	1164	ARG
3	N	1166	LEU
3	N	1169	ASP
3	N	1183	ILE
3	N	1197	ARG
3	N	1207	TYR
3	N	1211	MET

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Mol	Chain	Res	Type
3	N	1231	GLU
3	N	1243	THR
3	N	1252	ILE
3	N	1253	THR
3	N	1267	ARG
3	N	1274	ILE
3	N	1278	ASP
3	N	1285	GLU
3	N	1287	GLU
3	N	1297	GLU
3	N	1304	LYS
3	N	1308	GLU
3	N	1311	LEU
3	N	1314	LYS
3	N	1318	TYR
3	N	1342	GLU
3	N	1350	GLU
3	N	1376	MET
3	N	1389	LEU
3	N	1396	GLU
3	N	1415	VAL
3	N	1442	ASN
3	N	1468	LEU
3	N	1497	GLU
4	O	3	GLU
4	O	32	ARG
4	O	40	LEU
4	O	42	PRO
4	O	46	PRO
4	O	51	LEU
4	O	58	PRO
4	O	59	ASN
4	O	61	GLU
4	O	85	LEU
5	P	84	TYR
5	P	86	HIS
5	P	91	VAL
5	P	120	THR
5	P	122	LEU
5	P	142	ARG
5	P	148	LYS
5	P	149	GLU

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Mol	Chain	Res	Type
5	P	174	LEU
5	P	194	LEU
5	P	208	SER
5	P	280	GLN
5	P	281	GLU
5	P	295	MET
5	P	302	LYS
5	P	318	GLU
5	P	341	PRO
5	P	353	GLU
5	P	401	GLU
5	P	406	ARG
5	P	409	LYS
5	P	411	HIS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (162) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	95	GLN
1	A	124	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	212	ASN
1	A	213	GLN
1	A	227	ASN
1	A	229	GLN
1	B	63	HIS
1	B	95	GLN
1	B	124	ASN
1	B	163	ASN
1	B	212	ASN
1	B	221	HIS
1	B	227	ASN
2	C	31	GLN
2	C	41	ASN
2	C	45	GLN
2	C	91	GLN
2	C	204	GLN
2	C	343	GLN
2	C	431	HIS
2	C	434	HIS

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Mol	Chain	Res	Type
2	C	498	GLN
2	C	538	GLN
2	C	552	HIS
2	C	609	ASN
2	C	632	ASN
2	C	671	ASN
2	C	704	HIS
2	C	829	GLN
2	C	834	GLN
2	C	841	ASN
2	C	843	HIS
2	C	881	ASN
2	C	889	HIS
2	C	969	GLN
2	C	991	GLN
2	C	1018	GLN
2	C	1019	GLN
2	C	1100	GLN
3	D	166	GLN
3	D	507	ASN
3	D	549	ASN
3	D	575	GLN
3	D	616	GLN
3	D	669	ASN
3	D	696	HIS
3	D	717	GLN
3	D	744	GLN
3	D	756	GLN
3	D	768	ASN
3	D	816	HIS
3	D	824	ASN
3	D	845	ASN
3	D	962	GLN
3	D	976	GLN
3	D	991	GLN
3	D	994	GLN
3	D	1005	GLN
3	D	1124	GLN
3	D	1202	GLN
3	D	1465	ASN
3	D	1489	GLN
4	E	33	HIS

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Mol	Chain	Res	Type
4	E	86	GLN
5	F	90	GLN
5	F	191	ASN
5	F	217	ASN
5	F	218	GLN
5	F	245	GLN
5	F	269	ASN
5	F	337	HIS
5	F	402	ASN
1	K	81	ASN
1	K	95	GLN
1	K	124	ASN
1	K	163	ASN
1	K	180	GLN
1	K	212	ASN
1	K	227	ASN
1	L	81	ASN
1	L	95	GLN
1	L	124	ASN
1	L	163	ASN
1	L	180	GLN
1	L	221	HIS
1	L	229	GLN
2	M	31	GLN
2	M	41	ASN
2	M	80	GLN
2	M	99	GLN
2	M	187	ASN
2	M	204	GLN
2	M	330	ASN
2	M	343	GLN
2	M	390	GLN
2	M	431	HIS
2	M	434	HIS
2	M	538	GLN
2	M	545	ASN
2	M	552	HIS
2	M	565	GLN
2	M	567	GLN
2	M	575	GLN
2	M	663	ASN
2	M	829	GLN

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Mol	Chain	Res	Type
2	M	841	ASN
2	M	881	ASN
2	M	969	GLN
2	M	1018	GLN
2	M	1026	GLN
2	M	1050	GLN
2	M	1093	GLN
2	M	1107	ASN
3	N	101	HIS
3	N	151	GLN
3	N	166	GLN
3	N	442	ASN
3	N	462	GLN
3	N	529	GLN
3	N	552	ASN
3	N	569	ASN
3	N	575	GLN
3	N	636	GLN
3	N	703	ASN
3	N	709	HIS
3	N	724	GLN
3	N	727	GLN
3	N	737	ASN
3	N	744	GLN
3	N	756	GLN
3	N	767	HIS
3	N	768	ASN
3	N	794	GLN
3	N	901	GLN
3	N	962	GLN
3	N	991	GLN
3	N	994	GLN
3	N	1005	GLN
3	N	1010	ASN
3	N	1014	ASN
3	N	1184	GLN
3	N	1323	GLN
3	N	1442	ASN
3	N	1465	ASN
4	O	28	GLN
4	O	29	GLN
4	O	33	HIS

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Mol	Chain	Res	Type
4	O	37	ASN
5	P	83	GLN
5	P	90	GLN
5	P	161	GLN
5	P	191	ASN
5	P	254	GLN
5	P	277	GLN
5	P	280	GLN
5	P	312	GLN
5	P	337	HIS
5	P	399	GLN
5	P	411	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 368 ligands modelled in this entry, 366 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
8	G4P	N	9100	6	30,38,38	1.54	4 (13%)	43,61,61	2.31	13 (30%)
8	G4P	N	9101	6	30,38,38	1.68	6 (20%)	43,61,61	2.25	11 (25%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	G4P	N	9100	6	-	8/23/43/43	0/3/3/3
8	G4P	N	9101	6	-	8/23/43/43	0/3/3/3

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	9101	G4P	C6-N1	5.77	1.43	1.33
8	N	9100	G4P	C6-N1	4.36	1.40	1.33
8	N	9101	G4P	O4'-C1'	3.85	1.46	1.41
8	N	9100	G4P	O4'-C1'	3.17	1.45	1.41
8	N	9101	G4P	C8-N7	-2.77	1.29	1.34
8	N	9100	G4P	C8-N7	-2.74	1.29	1.34
8	N	9100	G4P	PD-O3D	2.70	1.65	1.54
8	N	9101	G4P	C2-N1	2.69	1.40	1.35
8	N	9101	G4P	PD-O3D	2.38	1.64	1.54
8	N	9101	G4P	C2-N2	2.25	1.38	1.33

All (24) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	N	9100	G4P	C5-C6-N1	-8.42	111.91	123.43
8	N	9101	G4P	C5-C6-N1	-8.34	112.03	123.43
8	N	9100	G4P	C6-N1-C2	5.66	124.92	115.93
8	N	9101	G4P	C6-N1-C2	5.33	124.39	115.93
8	N	9101	G4P	PC-O3C-PD	-5.30	114.65	132.83
8	N	9100	G4P	PA-O3A-PB	-4.40	117.73	132.83
8	N	9101	G4P	O3'-C3'-C4'	4.26	125.47	110.08
8	N	9101	G4P	N3-C2-N1	-3.23	122.92	127.22
8	N	9100	G4P	O3B-PB-O3A	-3.07	94.35	104.64
8	N	9100	G4P	C2'-C3'-C4'	3.06	108.65	103.22
8	N	9100	G4P	N3-C2-N1	-3.00	123.22	127.22
8	N	9100	G4P	O5'-PA-O1A	2.81	120.03	109.07
8	N	9101	G4P	C2-N3-C4	-2.59	112.40	115.36
8	N	9101	G4P	PA-O3A-PB	-2.48	124.33	132.83
8	N	9100	G4P	O3'-C3'-C2'	2.45	120.57	111.68
8	N	9100	G4P	C2-N3-C4	-2.38	112.64	115.36
8	N	9100	G4P	O3'-PC-O1C	-2.36	100.61	109.47
8	N	9100	G4P	O3'-C3'-C4'	2.33	118.52	110.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	N	9101	G4P	C2'-C3'-C4'	2.27	107.24	103.22
8	N	9100	G4P	O3B-PB-O1B	2.18	119.20	110.68
8	N	9101	G4P	C4-C5-N7	2.14	111.63	109.40
8	N	9101	G4P	O2D-PD-O3C	2.14	111.81	104.64
8	N	9101	G4P	O2'-C2'-C3'	2.09	117.11	111.17
8	N	9100	G4P	O4'-C4'-C3'	-2.00	100.58	104.87

There are no chirality outliers.

All (16) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	N	9101	G4P	PA-O3A-PB-O3B
8	N	9101	G4P	C5'-O5'-PA-O1A
8	N	9101	G4P	C5'-O5'-PA-O2A
8	N	9101	G4P	C2'-C3'-O3'-PC
8	N	9100	G4P	PA-O3A-PB-O2B
8	N	9100	G4P	C5'-O5'-PA-O1A
8	N	9100	G4P	C4'-C5'-O5'-PA
8	N	9100	G4P	PC-O3C-PD-O3D
8	N	9101	G4P	C3'-O3'-PC-O3C
8	N	9101	G4P	C4'-C5'-O5'-PA
8	N	9100	G4P	C5'-O5'-PA-O3A
8	N	9100	G4P	C5'-O5'-PA-O2A
8	N	9100	G4P	PC-O3C-PD-O1D
8	N	9100	G4P	PA-O3A-PB-O3B
8	N	9101	G4P	C5'-O5'-PA-O3A
8	N	9101	G4P	PA-O3A-PB-O1B

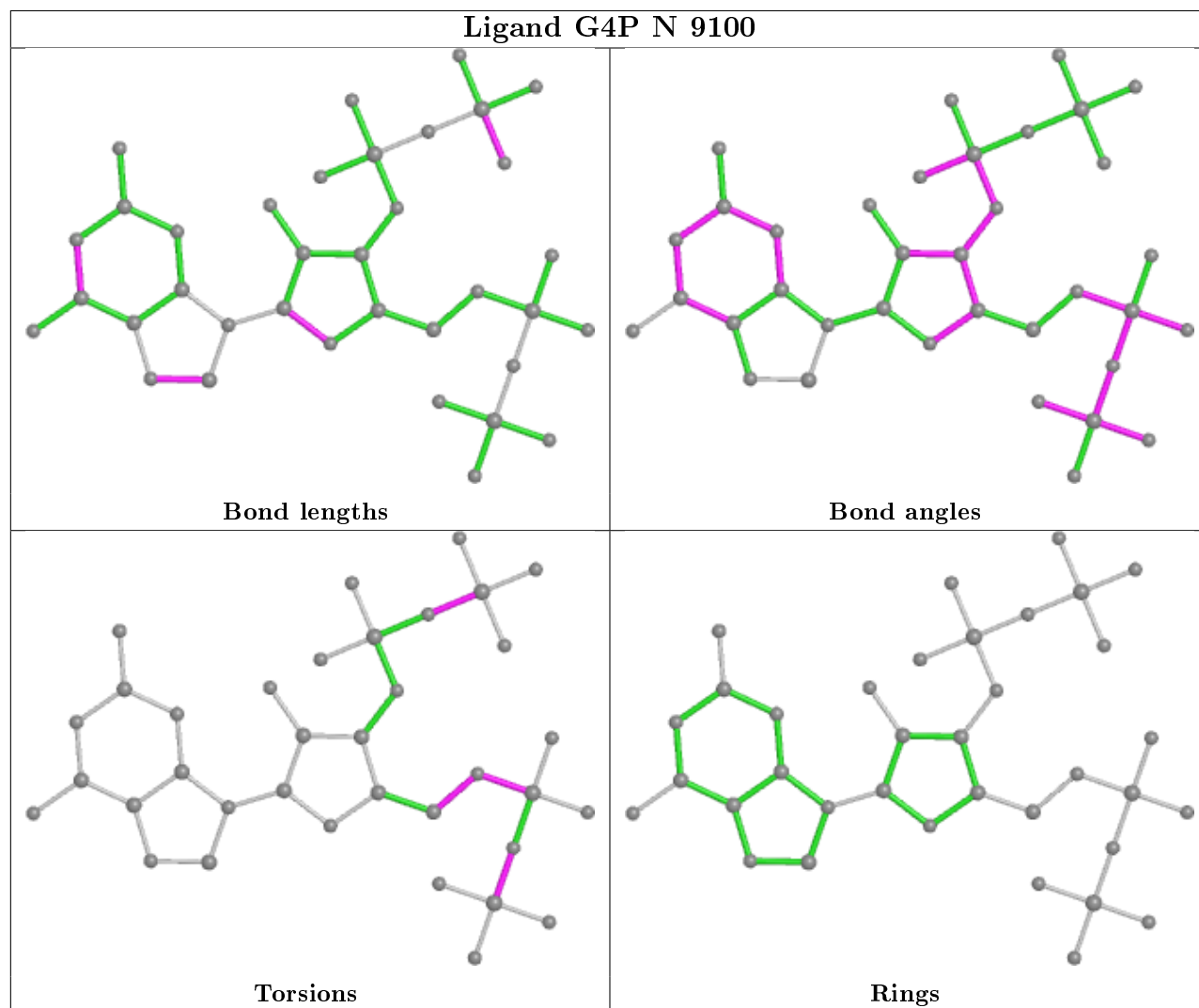
There are no ring outliers.

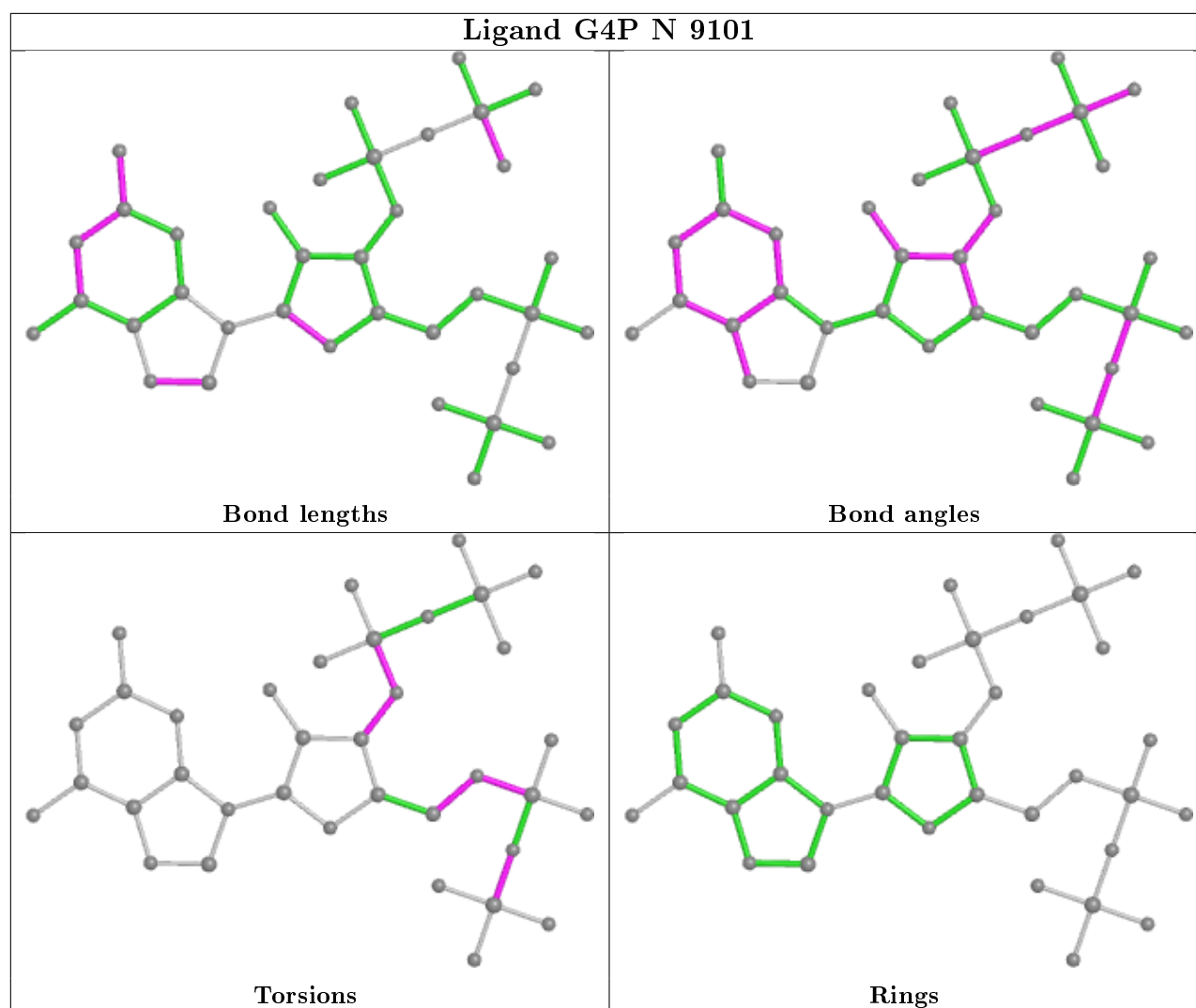
2 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	N	9100	G4P	4	0
8	N	9101	G4P	5	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring

in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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	229/315 (72%)	-0.74	2 (0%) 84 85	39, 65, 90, 121	0
1	B	229/315 (72%)	-0.70	3 (1%) 77 78	58, 82, 103, 129	0
1	K	229/315 (72%)	-0.72	1 (0%) 92 93	42, 65, 87, 117	0
1	L	229/315 (72%)	-0.71	2 (0%) 84 85	54, 88, 104, 122	0
2	C	1119/1119 (100%)	-0.80	1 (0%) 95 96	31, 73, 106, 124	0
2	M	1119/1119 (100%)	-0.76	7 (0%) 89 91	30, 75, 110, 122	0
3	D	1392/1524 (91%)	-0.70	16 (1%) 80 82	33, 71, 108, 152	0
3	N	1392/1524 (91%)	-0.72	17 (1%) 79 80	35, 71, 108, 145	0
4	E	95/99 (95%)	-0.90	0 100 100	49, 79, 103, 109	0
4	O	95/99 (95%)	-0.77	0 100 100	42, 81, 111, 119	0
5	F	345/423 (81%)	-0.61	7 (2%) 65 67	53, 84, 111, 126	0
5	P	345/423 (81%)	-0.66	2 (0%) 89 91	41, 83, 110, 117	0
All	All	6818/7590 (89%)	-0.73	58 (0%) 84 85	30, 74, 108, 152	0

All (58) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	N	1246	VAL	7.3
3	D	1245	GLY	7.2
3	D	1246	VAL	6.5
3	N	1247	ALA	6.2
3	D	1243	THR	5.3
1	K	1	MET	5.3
3	N	1245	GLY	5.1
3	N	407	VAL	4.8
3	D	1247	ALA	4.6
3	N	1244	GLY	4.4
3	D	1242	HIS	4.3

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Mol	Chain	Res	Type	RSRZ
1	A	1	MET	4.2
2	M	39	ARG	4.2
3	N	1242	HIS	4.1
3	N	1243	THR	4.1
1	B	2	LEU	4.0
5	F	389	PHE	3.9
1	L	97	VAL	3.7
2	M	269	LEU	3.5
3	D	1398	TRP	3.4
2	M	268	ASP	3.4
2	M	40	GLU	3.3
2	C	39	ARG	3.3
1	B	1	MET	3.2
3	D	1244	GLY	3.1
3	N	1408	ILE	3.1
1	A	2	LEU	2.9
3	D	1407	LEU	2.9
3	D	594	PRO	2.8
5	F	391	GLY	2.8
3	D	816	HIS	2.8
3	D	410	SER	2.7
5	P	365	GLU	2.6
3	D	1408	ILE	2.6
5	F	394	ARG	2.6
3	N	1241	PHE	2.6
3	D	1241	PHE	2.5
3	N	403	PHE	2.5
3	N	900	ILE	2.4
3	N	401	TYR	2.4
2	M	270	GLY	2.4
5	P	408	LEU	2.4
5	F	397	ILE	2.4
5	F	388	ALA	2.3
3	D	1240	THR	2.3
3	N	405	ASP	2.3
3	D	403	PHE	2.2
2	M	186	VAL	2.2
3	N	594	PRO	2.2
5	F	151	LEU	2.2
3	D	72	VAL	2.2
1	L	94	LEU	2.2
5	F	384	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
3	N	61	GLY	2.1
1	B	119	ASP	2.1
3	N	71	LYS	2.1
3	N	899	LEU	2.0
2	M	267	TYR	2.0

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates 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(\AA^2)	Q<0.9
7	ZN	D	9102	1/1	0.96	0.06	115,115,115,115	0
6	MG	D	9416	1/1	0.96	0.08	20,20,20,20	0
6	MG	C	9202	1/1	0.96	0.07	43,43,43,43	0
6	MG	D	9384	1/1	0.96	0.07	20,20,20,20	0
6	MG	D	9240	1/1	0.96	0.08	20,20,20,20	0
6	MG	D	9204	1/1	0.96	0.05	38,38,38,38	0
6	MG	C	9272	1/1	0.97	0.07	20,20,20,20	0
6	MG	D	9201	1/1	0.97	0.11	30,30,30,30	0
6	MG	F	9250	1/1	0.97	0.06	20,20,20,20	0
6	MG	C	9525	1/1	0.97	0.05	20,20,20,20	0
6	MG	C	9257	1/1	0.97	0.06	20,20,20,20	0
6	MG	D	9528	1/1	0.97	0.06	20,20,20,20	0
6	MG	A	9394	1/1	0.97	0.09	20,20,20,20	0
6	MG	M	9206	1/1	0.97	0.10	38,38,38,38	0
6	MG	C	9554	1/1	0.98	0.06	20,20,20,20	0
6	MG	F	9398	1/1	0.98	0.07	20,20,20,20	0
6	MG	C	9356	1/1	0.98	0.07	20,20,20,20	0
6	MG	F	9496	1/1	0.98	0.05	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
6	MG	C	9320	1/1	0.98	0.06	20,20,20,20	0
6	MG	D	9301	1/1	0.98	0.05	20,20,20,20	0
6	MG	D	9220	1/1	0.98	0.07	20,20,20,20	0
6	MG	B	9235	1/1	0.98	0.06	20,20,20,20	0
6	MG	D	9518	1/1	0.98	0.06	20,20,20,20	0
6	MG	D	9271	1/1	0.98	0.06	20,20,20,20	0
6	MG	F	9290	1/1	0.98	0.06	20,20,20,20	0
6	MG	E	9431	1/1	0.98	0.07	20,20,20,20	0
6	MG	F	9305	1/1	0.98	0.07	20,20,20,20	0
6	MG	D	9390	1/1	0.98	0.07	20,20,20,20	0
6	MG	D	9406	1/1	0.98	0.05	20,20,20,20	0
7	ZN	D	9103	1/1	0.98	0.09	87,87,87,87	0
6	MG	C	9238	1/1	0.98	0.07	20,20,20,20	0
7	ZN	N	9105	1/1	0.98	0.10	80,80,80,80	0
6	MG	D	9241	1/1	0.98	0.06	20,20,20,20	0
6	MG	C	9299	1/1	0.98	0.06	20,20,20,20	0
6	MG	D	9214	1/1	0.98	0.07	20,20,20,20	0
6	MG	C	9210	1/1	0.98	0.05	20,20,20,20	0
6	MG	C	9364	1/1	0.98	0.06	20,20,20,20	0
6	MG	C	9354	1/1	0.98	0.07	20,20,20,20	0
6	MG	D	9355	1/1	0.98	0.13	20,20,20,20	0
6	MG	D	9216	1/1	0.98	0.08	20,20,20,20	0
6	MG	D	9460	1/1	0.98	0.04	20,20,20,20	0
6	MG	D	9226	1/1	0.98	0.04	20,20,20,20	0
6	MG	D	9294	1/1	0.98	0.07	20,20,20,20	0
6	MG	C	9441	1/1	0.98	0.05	20,20,20,20	0
6	MG	C	9519	1/1	0.98	0.05	20,20,20,20	0
7	ZN	N	9104	1/1	0.98	0.05	116,116,116,116	0
6	MG	D	9480	1/1	0.98	0.07	20,20,20,20	0
6	MG	B	9485	1/1	0.98	0.05	20,20,20,20	0
6	MG	D	9386	1/1	0.98	0.04	20,20,20,20	0
6	MG	B	9413	1/1	0.98	0.05	20,20,20,20	0
6	MG	D	9532	1/1	0.98	0.04	20,20,20,20	0
6	MG	E	9341	1/1	0.98	0.06	20,20,20,20	0
6	MG	E	9249	1/1	0.98	0.09	20,20,20,20	0
6	MG	F	9545	1/1	0.98	0.08	20,20,20,20	0
6	MG	F	9500	1/1	0.98	0.08	20,20,20,20	0
8	G4P	N	9100	36/36	0.98	0.11	35,45,54,55	0
6	MG	D	9237	1/1	0.98	0.05	20,20,20,20	0
6	MG	A	9318	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9465	1/1	0.99	0.04	20,20,20,20	0
6	MG	A	9368	1/1	0.99	0.04	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
6	MG	D	9353	1/1	0.99	0.05	20,20,20,20	0
6	MG	F	9504	1/1	0.99	0.07	20,20,20,20	0
6	MG	F	9303	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9265	1/1	0.99	0.09	20,20,20,20	0
6	MG	F	9251	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9342	1/1	0.99	0.04	20,20,20,20	0
6	MG	C	9243	1/1	0.99	0.06	20,20,20,20	0
6	MG	F	9463	1/1	0.99	0.08	20,20,20,20	0
6	MG	D	9533	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9408	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9333	1/1	0.99	0.05	20,20,20,20	0
6	MG	E	9432	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9348	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9393	1/1	0.99	0.08	20,20,20,20	0
6	MG	C	9359	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9443	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9325	1/1	0.99	0.10	20,20,20,20	0
6	MG	C	9444	1/1	0.99	0.06	20,20,20,20	0
6	MG	A	9273	1/1	0.99	0.05	20,20,20,20	0
6	MG	A	9295	1/1	0.99	0.04	20,20,20,20	0
6	MG	A	9423	1/1	0.99	0.06	20,20,20,20	0
6	MG	F	9302	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9330	1/1	0.99	0.06	20,20,20,20	0
6	MG	A	9517	1/1	0.99	0.06	20,20,20,20	0
6	MG	E	9373	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9331	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9328	1/1	0.99	0.05	20,20,20,20	0
6	MG	C	9451	1/1	0.99	0.11	20,20,20,20	0
6	MG	D	9546	1/1	0.99	0.05	20,20,20,20	0
6	MG	F	9414	1/1	0.99	0.06	20,20,20,20	0
6	MG	A	9334	1/1	0.99	0.04	20,20,20,20	0
6	MG	E	9415	1/1	0.99	0.06	20,20,20,20	0
6	MG	F	9298	1/1	0.99	0.08	20,20,20,20	0
6	MG	D	9440	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9304	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9526	1/1	0.99	0.07	20,20,20,20	0
6	MG	B	9552	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9332	1/1	0.99	0.09	20,20,20,20	0
6	MG	D	9400	1/1	0.99	0.08	20,20,20,20	0
6	MG	C	9489	1/1	0.99	0.11	20,20,20,20	0
6	MG	E	9494	1/1	0.99	0.05	20,20,20,20	0
6	MG	A	9487	1/1	0.99	0.09	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
6	MG	C	9222	1/1	0.99	0.04	20,20,20,20	0
6	MG	D	9472	1/1	0.99	0.04	20,20,20,20	0
6	MG	F	9244	1/1	0.99	0.05	20,20,20,20	0
6	MG	C	9217	1/1	0.99	0.07	20,20,20,20	0
6	MG	F	9309	1/1	0.99	0.04	20,20,20,20	0
6	MG	F	9558	1/1	0.99	0.07	20,20,20,20	0
6	MG	B	9491	1/1	0.99	0.08	20,20,20,20	0
6	MG	C	9430	1/1	0.99	0.06	20,20,20,20	0
6	MG	B	9488	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9512	1/1	0.99	0.04	20,20,20,20	0
6	MG	A	9464	1/1	0.99	0.06	20,20,20,20	0
6	MG	E	9484	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9362	1/1	0.99	0.05	20,20,20,20	0
6	MG	F	9516	1/1	0.99	0.09	20,20,20,20	0
6	MG	D	9439	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9470	1/1	0.99	0.09	20,20,20,20	0
6	MG	D	9456	1/1	0.99	0.04	20,20,20,20	0
6	MG	D	9548	1/1	0.99	0.09	20,20,20,20	0
6	MG	C	9300	1/1	0.99	0.03	20,20,20,20	0
6	MG	D	9559	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9529	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9550	1/1	0.99	0.08	20,20,20,20	0
6	MG	F	9340	1/1	0.99	0.05	20,20,20,20	0
6	MG	C	9378	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9523	1/1	0.99	0.09	20,20,20,20	0
6	MG	D	9269	1/1	0.99	0.05	20,20,20,20	0
6	MG	F	9483	1/1	0.99	0.04	20,20,20,20	0
6	MG	C	9358	1/1	0.99	0.07	20,20,20,20	0
6	MG	A	9327	1/1	0.99	0.09	20,20,20,20	0
6	MG	C	9454	1/1	0.99	0.07	20,20,20,20	0
6	MG	B	9306	1/1	0.99	0.10	20,20,20,20	0
6	MG	B	9311	1/1	0.99	0.11	20,20,20,20	0
6	MG	D	9258	1/1	0.99	0.06	20,20,20,20	0
6	MG	A	9442	1/1	0.99	0.05	20,20,20,20	0
6	MG	F	9530	1/1	0.99	0.04	20,20,20,20	0
6	MG	D	9506	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9467	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9361	1/1	0.99	0.06	20,20,20,20	0
6	MG	F	9323	1/1	0.99	0.05	20,20,20,20	0
6	MG	F	9445	1/1	0.99	0.05	20,20,20,20	0
6	MG	F	9513	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9477	1/1	0.99	0.05	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
6	MG	D	9503	1/1	0.99	0.04	20,20,20,20	0
6	MG	D	9557	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9536	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9479	1/1	0.99	0.10	20,20,20,20	0
6	MG	D	9372	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9497	1/1	0.99	0.07	20,20,20,20	0
6	MG	F	9297	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9562	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9261	1/1	0.99	0.10	20,20,20,20	0
6	MG	C	9239	1/1	0.99	0.04	20,20,20,20	0
6	MG	F	9326	1/1	0.99	0.04	20,20,20,20	0
6	MG	N	9205	1/1	0.99	0.08	16,16,16,16	0
6	MG	D	9296	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9336	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9285	1/1	0.99	0.11	20,20,20,20	0
6	MG	F	9382	1/1	0.99	0.04	20,20,20,20	0
6	MG	F	9425	1/1	0.99	0.04	20,20,20,20	0
6	MG	F	9229	1/1	0.99	0.11	20,20,20,20	0
6	MG	D	9286	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9403	1/1	0.99	0.04	20,20,20,20	0
6	MG	B	9260	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9283	1/1	0.99	0.10	20,20,20,20	0
6	MG	C	9395	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9490	1/1	0.99	0.04	20,20,20,20	0
6	MG	C	9474	1/1	0.99	0.05	20,20,20,20	0
6	MG	C	9255	1/1	0.99	0.10	20,20,20,20	0
6	MG	D	9317	1/1	0.99	0.12	20,20,20,20	0
6	MG	E	9551	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9363	1/1	0.99	0.05	20,20,20,20	0
6	MG	F	9450	1/1	0.99	0.07	20,20,20,20	0
6	MG	C	9396	1/1	0.99	0.07	20,20,20,20	0
6	MG	C	9371	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9370	1/1	0.99	0.04	20,20,20,20	0
6	MG	C	9561	1/1	0.99	0.04	20,20,20,20	0
6	MG	D	9291	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9434	1/1	0.99	0.04	20,20,20,20	0
6	MG	D	9203	1/1	0.99	0.08	25,25,25,25	0
6	MG	F	9468	1/1	0.99	0.06	20,20,20,20	0
6	MG	E	9538	1/1	0.99	0.09	20,20,20,20	0
6	MG	D	9502	1/1	0.99	0.10	20,20,20,20	0
6	MG	C	9267	1/1	0.99	0.09	20,20,20,20	0
6	MG	D	9233	1/1	0.99	0.06	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
6	MG	B	9280	1/1	0.99	0.04	20,20,20,20	0
6	MG	D	9448	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9225	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9410	1/1	0.99	0.04	20,20,20,20	0
6	MG	A	9473	1/1	0.99	0.05	20,20,20,20	0
6	MG	B	9458	1/1	0.99	0.07	20,20,20,20	0
6	MG	F	9495	1/1	0.99	0.04	20,20,20,20	0
6	MG	D	9391	1/1	0.99	0.07	20,20,20,20	0
6	MG	C	9405	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9539	1/1	0.99	0.03	20,20,20,20	0
8	G4P	N	9101	36/36	0.99	0.11	35,45,50,50	0
6	MG	D	9344	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9262	1/1	0.99	0.05	20,20,20,20	0
6	MG	A	9365	1/1	0.99	0.06	20,20,20,20	0
6	MG	A	9486	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9369	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9315	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9377	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9252	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9433	1/1	0.99	0.05	20,20,20,20	0
6	MG	C	9367	1/1	0.99	0.07	20,20,20,20	0
6	MG	F	9407	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9399	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9223	1/1	0.99	0.09	20,20,20,20	0
6	MG	C	9287	1/1	0.99	0.04	20,20,20,20	0
6	MG	C	9219	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9277	1/1	0.99	0.09	20,20,20,20	0
6	MG	B	9446	1/1	0.99	0.04	20,20,20,20	0
6	MG	C	9263	1/1	0.99	0.08	20,20,20,20	0
6	MG	D	9452	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9505	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9316	1/1	0.99	0.05	20,20,20,20	0
6	MG	F	9375	1/1	0.99	0.10	20,20,20,20	0
6	MG	D	9475	1/1	0.99	0.04	20,20,20,20	0
6	MG	A	9520	1/1	0.99	0.08	20,20,20,20	0
6	MG	C	9293	1/1	0.99	0.05	20,20,20,20	0
6	MG	A	9227	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9211	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9236	1/1	0.99	0.08	20,20,20,20	0
6	MG	F	9424	1/1	0.99	0.09	20,20,20,20	0
6	MG	D	9478	1/1	0.99	0.05	20,20,20,20	0
6	MG	C	9466	1/1	0.99	0.06	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
6	MG	A	9212	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9417	1/1	0.99	0.09	20,20,20,20	0
6	MG	C	9345	1/1	0.99	0.04	20,20,20,20	0
6	MG	D	9308	1/1	0.99	0.09	20,20,20,20	0
6	MG	C	9221	1/1	0.99	0.07	20,20,20,20	0
6	MG	F	9508	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9515	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9381	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9218	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9498	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9404	1/1	0.99	0.09	20,20,20,20	0
6	MG	C	9501	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9524	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9507	1/1	0.99	0.03	20,20,20,20	0
6	MG	F	9374	1/1	0.99	0.05	20,20,20,20	0
6	MG	C	9339	1/1	0.99	0.11	20,20,20,20	0
6	MG	D	9527	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9357	1/1	0.99	0.04	20,20,20,20	0
6	MG	F	9453	1/1	0.99	0.09	20,20,20,20	0
6	MG	D	9307	1/1	0.99	0.06	20,20,20,20	0
6	MG	F	9310	1/1	0.99	0.04	20,20,20,20	0
6	MG	C	9542	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9556	1/1	0.99	0.05	20,20,20,20	0
6	MG	C	9511	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9274	1/1	0.99	0.07	20,20,20,20	0
6	MG	C	9476	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9409	1/1	0.99	0.11	20,20,20,20	0
6	MG	D	9246	1/1	0.99	0.07	20,20,20,20	0
6	MG	E	9389	1/1	0.99	0.05	20,20,20,20	0
6	MG	C	9385	1/1	0.99	0.04	20,20,20,20	0
6	MG	C	9282	1/1	0.99	0.05	20,20,20,20	0
6	MG	B	9256	1/1	0.99	0.04	20,20,20,20	0
6	MG	C	9514	1/1	0.99	0.04	20,20,20,20	0
6	MG	D	9499	1/1	0.99	0.06	20,20,20,20	0
6	MG	C	9264	1/1	0.99	0.07	20,20,20,20	0
6	MG	C	9422	1/1	0.99	0.05	20,20,20,20	0
6	MG	F	9531	1/1	0.99	0.04	20,20,20,20	0
6	MG	C	9438	1/1	0.99	0.11	20,20,20,20	0
6	MG	E	9449	1/1	0.99	0.07	20,20,20,20	0
6	MG	D	9401	1/1	0.99	0.05	20,20,20,20	0
6	MG	C	9289	1/1	0.99	0.09	20,20,20,20	0
6	MG	D	9482	1/1	0.99	0.05	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
6	MG	D	9247	1/1	0.99	0.07	20,20,20,20	0
6	MG	B	9230	1/1	0.99	0.07	20,20,20,20	0
6	MG	C	9383	1/1	0.99	0.04	20,20,20,20	0
6	MG	B	9427	1/1	0.99	0.04	20,20,20,20	0
6	MG	F	9540	1/1	0.99	0.05	20,20,20,20	0
6	MG	D	9419	1/1	0.99	0.04	20,20,20,20	0
6	MG	C	9313	1/1	0.99	0.10	20,20,20,20	0
6	MG	D	9337	1/1	0.99	0.04	20,20,20,20	0
6	MG	D	9469	1/1	0.99	0.06	20,20,20,20	0
6	MG	D	9421	1/1	0.99	0.07	20,20,20,20	0
6	MG	C	9387	1/1	0.99	0.10	20,20,20,20	0
6	MG	D	9481	1/1	0.99	0.08	20,20,20,20	0
6	MG	C	9321	1/1	0.99	0.06	20,20,20,20	0
6	MG	A	9543	1/1	0.99	0.06	20,20,20,20	0
6	MG	F	9245	1/1	0.99	0.09	20,20,20,20	0
6	MG	E	9352	1/1	0.99	0.08	20,20,20,20	0
6	MG	D	9253	1/1	0.99	0.08	20,20,20,20	0
6	MG	B	9228	1/1	1.00	0.08	20,20,20,20	0
6	MG	D	9376	1/1	1.00	0.04	20,20,20,20	0
6	MG	B	9426	1/1	1.00	0.06	20,20,20,20	0
6	MG	A	9555	1/1	1.00	0.04	20,20,20,20	0
6	MG	F	9278	1/1	1.00	0.07	20,20,20,20	0
6	MG	C	9411	1/1	1.00	0.11	20,20,20,20	0
6	MG	A	9462	1/1	1.00	0.07	20,20,20,20	0
6	MG	A	9437	1/1	1.00	0.07	20,20,20,20	0
6	MG	B	9560	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9349	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9547	1/1	1.00	0.05	20,20,20,20	0
6	MG	C	9429	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9380	1/1	1.00	0.10	20,20,20,20	0
6	MG	F	9436	1/1	1.00	0.11	20,20,20,20	0
6	MG	D	9455	1/1	1.00	0.10	20,20,20,20	0
6	MG	D	9428	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9397	1/1	1.00	0.05	20,20,20,20	0
6	MG	E	9366	1/1	1.00	0.05	20,20,20,20	0
6	MG	D	9234	1/1	1.00	0.09	20,20,20,20	0
6	MG	C	9346	1/1	1.00	0.10	20,20,20,20	0
6	MG	F	9324	1/1	1.00	0.07	20,20,20,20	0
6	MG	D	9461	1/1	1.00	0.06	20,20,20,20	0
6	MG	A	9224	1/1	1.00	0.07	20,20,20,20	0
6	MG	E	9275	1/1	1.00	0.10	20,20,20,20	0
6	MG	D	9392	1/1	1.00	0.07	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
6	MG	D	9312	1/1	1.00	0.05	20,20,20,20	0
6	MG	D	9492	1/1	1.00	0.08	20,20,20,20	0
6	MG	C	9549	1/1	1.00	0.05	20,20,20,20	0
6	MG	D	9379	1/1	1.00	0.07	20,20,20,20	0
6	MG	D	9232	1/1	1.00	0.10	20,20,20,20	0
6	MG	D	9435	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9213	1/1	1.00	0.05	20,20,20,20	0
6	MG	C	9509	1/1	1.00	0.06	20,20,20,20	0
6	MG	B	9420	1/1	1.00	0.07	20,20,20,20	0
6	MG	D	9343	1/1	1.00	0.05	20,20,20,20	0
6	MG	C	9553	1/1	1.00	0.05	20,20,20,20	0
6	MG	C	9284	1/1	1.00	0.07	20,20,20,20	0
6	MG	C	9335	1/1	1.00	0.08	20,20,20,20	0
6	MG	D	9242	1/1	1.00	0.11	20,20,20,20	0
6	MG	D	9279	1/1	1.00	0.06	20,20,20,20	0
6	MG	C	9418	1/1	1.00	0.06	20,20,20,20	0
6	MG	D	9314	1/1	1.00	0.05	20,20,20,20	0
6	MG	B	9541	1/1	1.00	0.07	20,20,20,20	0
6	MG	D	9319	1/1	1.00	0.04	20,20,20,20	0
6	MG	A	9254	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9447	1/1	1.00	0.06	20,20,20,20	0
6	MG	C	9231	1/1	1.00	0.10	20,20,20,20	0
6	MG	D	9208	1/1	1.00	0.10	20,20,20,20	0
6	MG	C	9338	1/1	1.00	0.06	20,20,20,20	0
6	MG	C	9522	1/1	1.00	0.06	20,20,20,20	0
6	MG	C	9534	1/1	1.00	0.05	20,20,20,20	0
6	MG	C	9266	1/1	1.00	0.07	20,20,20,20	0
6	MG	D	9360	1/1	1.00	0.05	20,20,20,20	0
6	MG	D	9215	1/1	1.00	0.08	20,20,20,20	0
6	MG	N	9207	1/1	1.00	0.07	37,37,37,37	0
6	MG	D	9510	1/1	1.00	0.08	20,20,20,20	0
6	MG	D	9276	1/1	1.00	0.05	20,20,20,20	0
6	MG	E	9288	1/1	1.00	0.08	20,20,20,20	0
6	MG	C	9459	1/1	1.00	0.06	20,20,20,20	0
6	MG	A	9329	1/1	1.00	0.08	20,20,20,20	0
6	MG	D	9322	1/1	1.00	0.09	20,20,20,20	0
6	MG	F	9537	1/1	1.00	0.05	20,20,20,20	0
6	MG	F	9388	1/1	1.00	0.09	20,20,20,20	0
6	MG	B	9281	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9347	1/1	1.00	0.04	20,20,20,20	0
6	MG	A	9521	1/1	1.00	0.06	20,20,20,20	0
6	MG	C	9259	1/1	1.00	0.06	20,20,20,20	0

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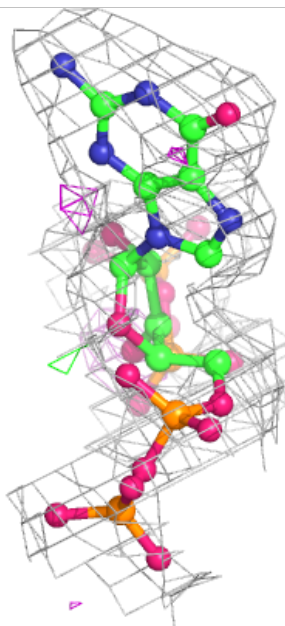
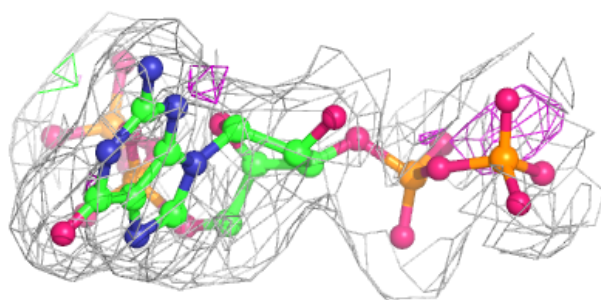
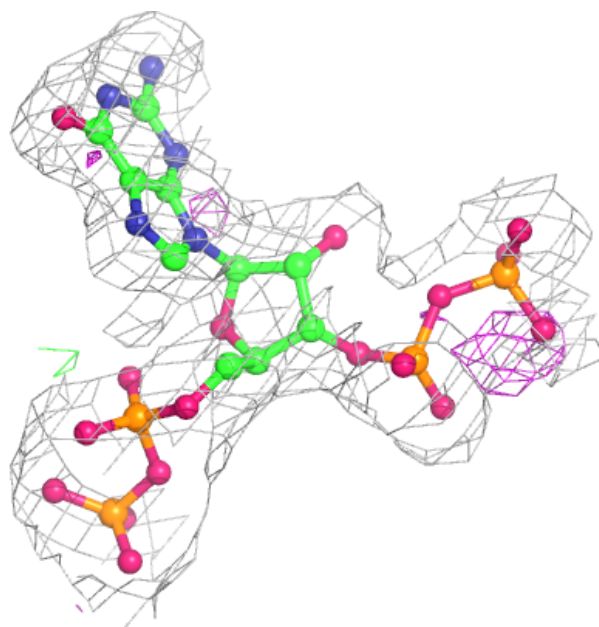
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
6	MG	D	9535	1/1	1.00	0.06	20,20,20,20	0
6	MG	F	9471	1/1	1.00	0.08	20,20,20,20	0
6	MG	A	9544	1/1	1.00	0.06	20,20,20,20	0
6	MG	D	9350	1/1	1.00	0.05	20,20,20,20	0
6	MG	B	9412	1/1	1.00	0.06	20,20,20,20	0
6	MG	C	9292	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9248	1/1	1.00	0.06	20,20,20,20	0
6	MG	F	9270	1/1	1.00	0.03	20,20,20,20	0
6	MG	E	9457	1/1	1.00	0.04	20,20,20,20	0
6	MG	A	9268	1/1	1.00	0.10	20,20,20,20	0
6	MG	A	9209	1/1	1.00	0.20	20,20,20,20	0
6	MG	D	9402	1/1	1.00	0.05	20,20,20,20	0
6	MG	C	9493	1/1	1.00	0.06	20,20,20,20	0
6	MG	D	9351	1/1	1.00	0.09	20,20,20,20	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

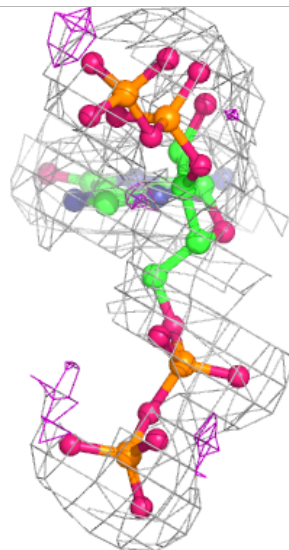
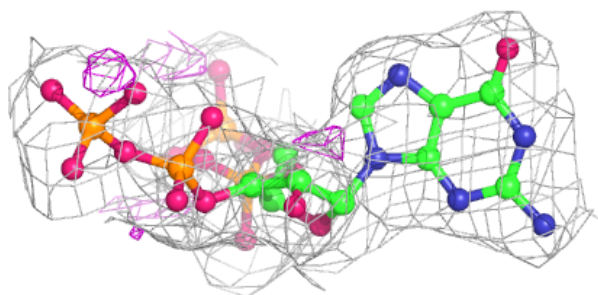
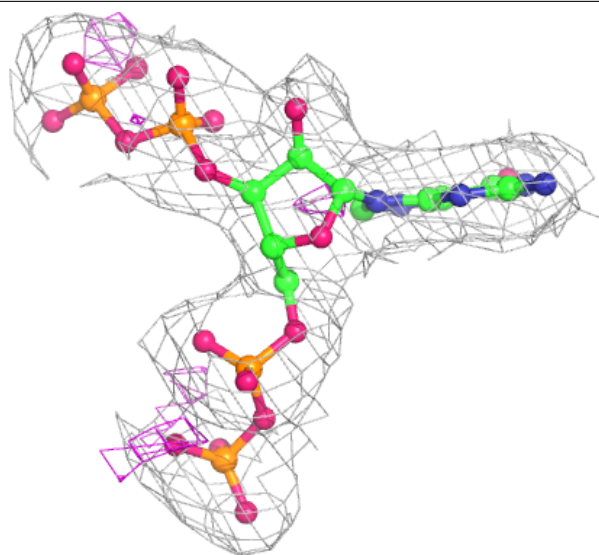
Electron density around G4P N 9100:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around G4P N 9101:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.