



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 15, 2017 – 08:43 am GMT

PDB ID : 2A68
Title : Crystal structure of the T. thermophilus RNA polymerase holoenzyme in complex with antibiotic rifabutin
Authors : Artsimovitch, I.; Vassilyeva, M.N.; Svetlov, D.; Svetlov, V.; Perederina, A.; Igarashi, N.; Matsugaki, N.; Wakatsuki, S.; Tahirov, T.H.; Vassilyev, D.G.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2005-07-01
Resolution : 2.50 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

<http://wwpdb.org/validation/2016/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	:	1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix)	:	1.9-1692
EDS	:	trunk28620
Percentile statistics	:	20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	recalc28949

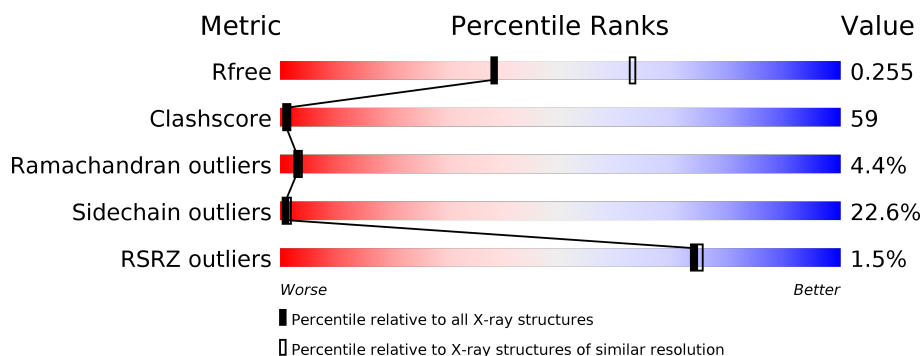
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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}	100719	3846 (2.50-2.50)
Clashscore	112137	4554 (2.50-2.50)
Ramachandran outliers	110173	4463 (2.50-2.50)
Sidechain outliers	110143	4465 (2.50-2.50)
RSRZ outliers	101464	3876 (2.50-2.50)

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. 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	
1	B	315	
1	K	315	
1	L	315	
2	C	1119	
2	M	1119	

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Mol	Chain	Length	Quality of chain
3	D	1524	
3	N	1524	
4	E	99	
4	O	99	
5	F	423	
5	P	423	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
7	RBT	C	8001	-	-	-	X

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 61089 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
			8829	5581	1577	1647	24			
2	M	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	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 chain.

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			

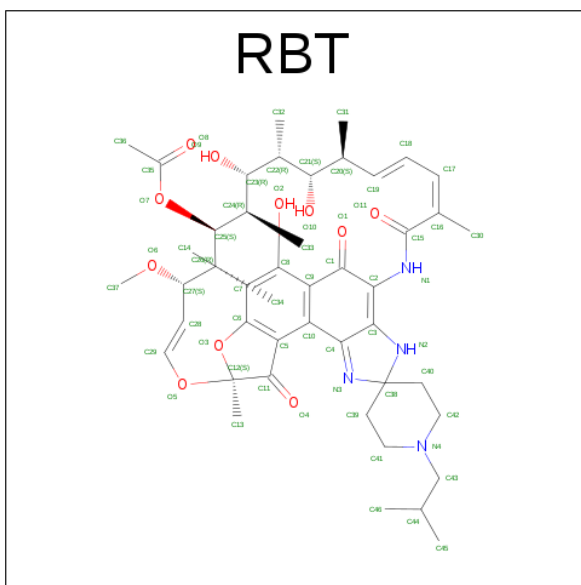
- Molecule 5 is a protein called RNA polymerase sigma factor rpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	345	Total	C	N	O	S	0	0	0
			2771	1744	504	519	4			
5	P	345	Total	C	N	O	S	0	0	0
			2771	1744	504	519	4			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	P	20	Total	Mg	0	0
			20	20		
6	D	137	Total	Mg	0	0
			137	137		
6	K	21	Total	Mg	0	0
			21	21		
6	E	10	Total	Mg	0	0
			10	10		
6	B	23	Total	Mg	0	0
			23	23		
6	C	81	Total	Mg	0	0
			81	81		
6	A	31	Total	Mg	0	0
			31	31		
6	N	108	Total	Mg	0	0
			108	108		
6	O	6	Total	Mg	0	0
			6	6		
6	L	25	Total	Mg	0	0
			25	25		
6	F	31	Total	Mg	0	0
			31	31		
6	M	69	Total	Mg	0	0
			69	69		

- Molecule 7 is RIFABUTIN (three-letter code: RBT) (formula: C₄₆H₆₂N₄O₁₁).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	C	1	Total 61	C 46	N 4	O 11	0	0
7	M	1	Total 61	C 46	N 4	O 11	0	0

- Molecule 8 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 9 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	A	253	Total O 253 253	0	0
9	B	307	Total O 307 307	0	0
9	C	1000	Total O 1000 1000	0	0
9	D	1418	Total O 1418 1418	0	0
9	E	112	Total O 112 112	0	0

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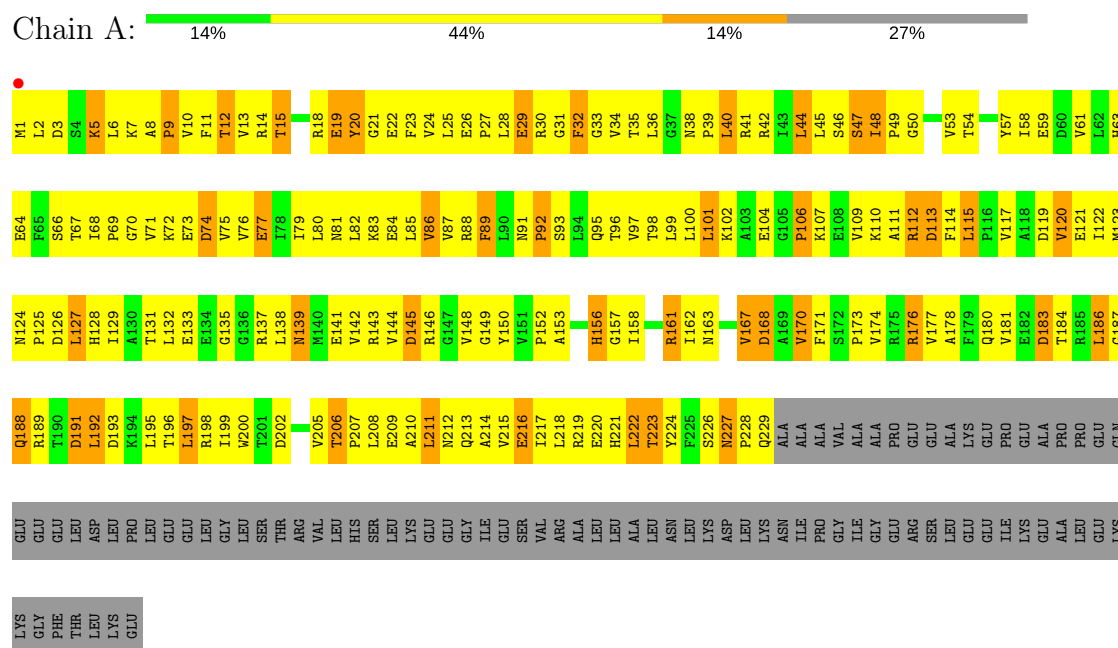
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	F	456	Total 456	O 456	0	0
9	K	213	Total 213	O 213	0	0
9	L	237	Total 237	O 237	0	0
9	M	998	Total 998	O 998	0	0
9	N	1357	Total 1357	O 1357	0	0
9	O	117	Total 117	O 117	0	0
9	P	377	Total 377	O 377	0	0

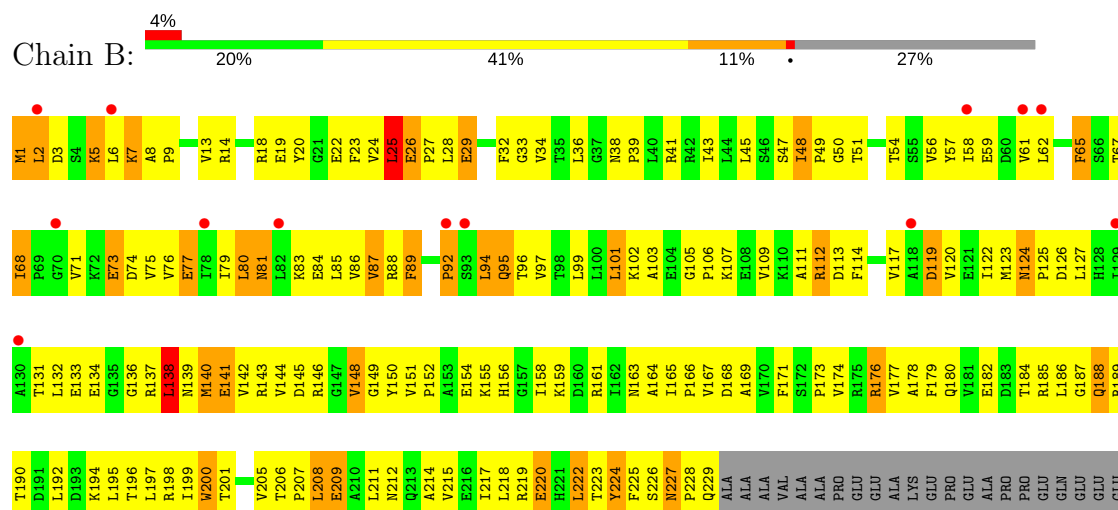
3 Residue-property plots

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.

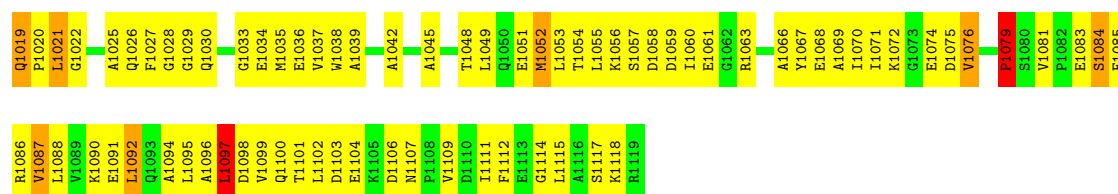
• Molecule 1: DNA-directed RNA polymerase alpha chain



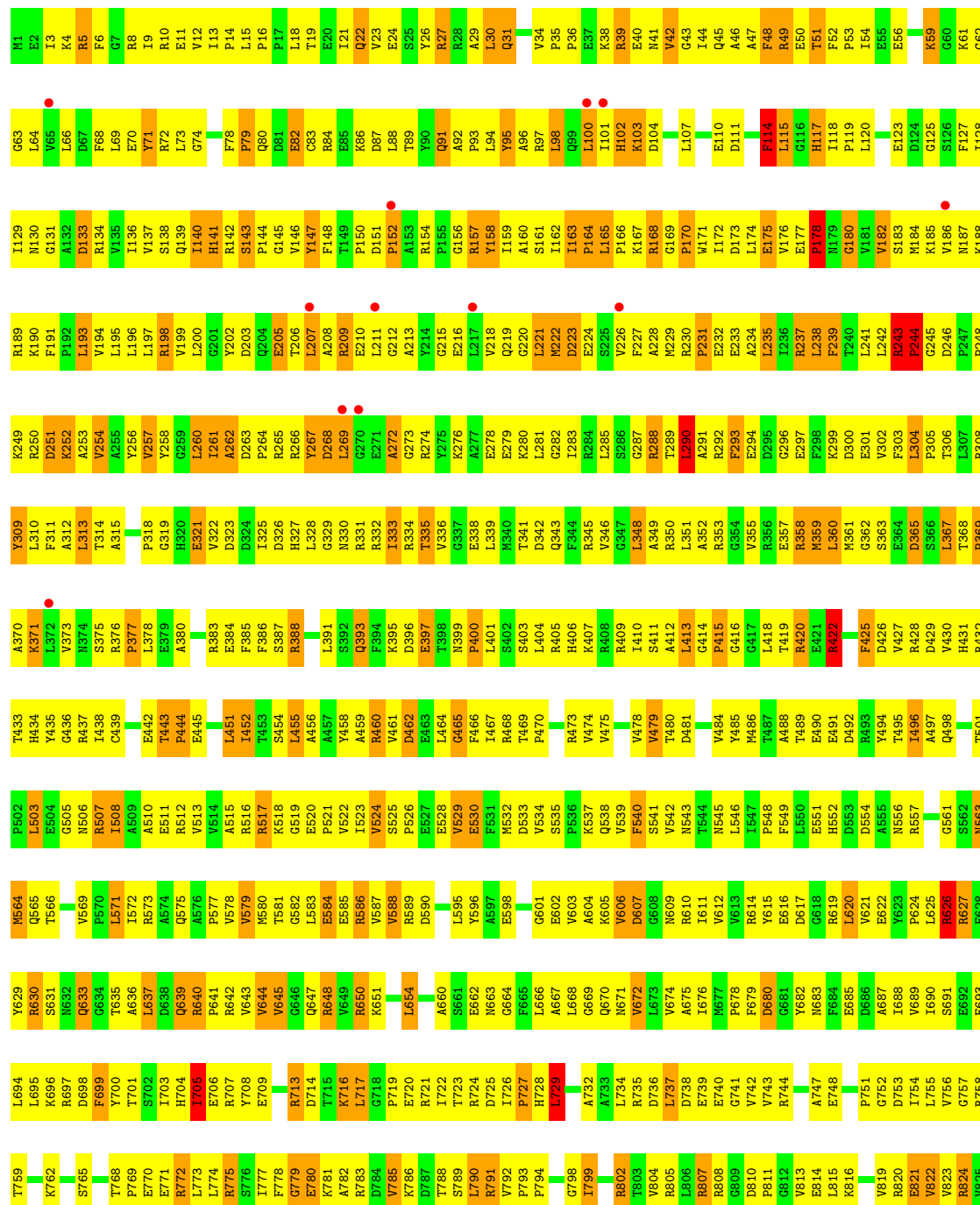
• Molecule 1: DNA-directed RNA polymerase alpha chain

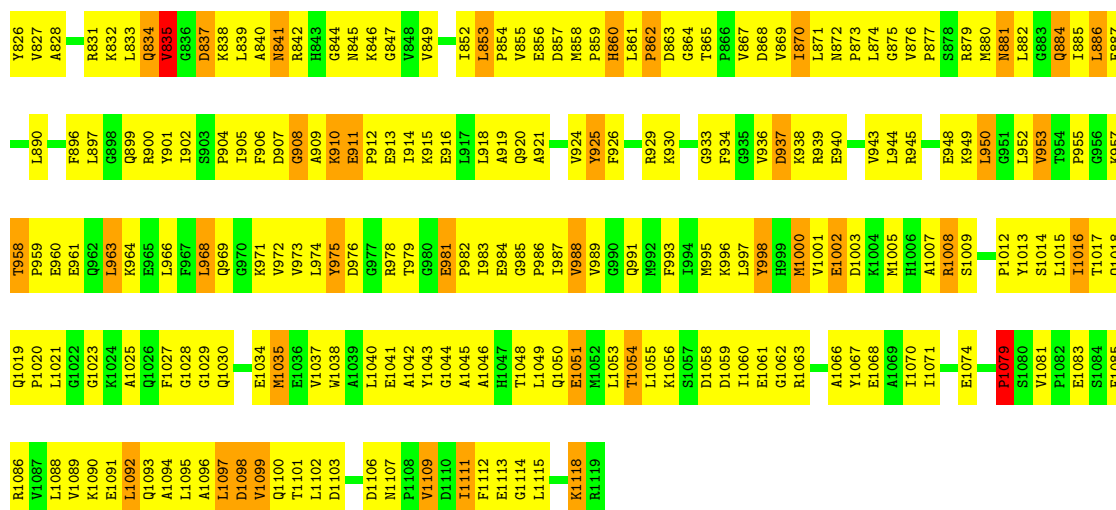


T958	L897	Q829	F761	R697	G634	V569	L508	T443	L381	V254	L190	L128	V65	M1
P959	G996	K830	F761	D698	T635	P570	A509	P444	L382	A255	F191	L129	L66	E2
E960	G999	R831	T768	P699	A636	L571	A510	N448	R383	V256	P192	A132	D67	I3
E961	R900	K832	P769	Y700	L637	L572	E511	I449	E384	V257	L193	L193	F68	K4
Q962	Y901	L833	E770	T701	D638	A574	V513	G450	F385	Z258	V194	D133	L69	R5
L963	Q834	Q834	E771	S702	Q639	A575	V513	G450	F386	Z259	L195	R134	E70	F6
L964	V835	V835	L772	I703	R640	Q575	V514	L451	S387	L260	L196	V135	Y71	G7
E965	G904	D836	L773	H704	P641	A576	A515	I452	R388	L261	L197	I136	Y72	R8
L966	D837	R642	L774	I705	R642	P577	A516	L455	S389	A262	R198	V137	L73	I9
L967	K838	V643	R775	E706	V643	V578	R517	A456	L391	D263	L200	S138	G74	R10
L968	L839	V644	S776	R707	V644	V579	K518	A457	L391	P264	L200	Q139	E75	E11
Q969	G908	V645	I777	Y708	V645	M580	G519	A457	S392	R265	G201	I140	P76	V12
G970	R841	G646	F778	E709	G646	T581	G520	Y458	Q393	R266	Y202	H141	P77	I13
G971	R842	Q647	G779	I710	Q647	G582	P521	A459	F394	Y287	D203	P144	F78	P14
V972	H843	R648	E780	R713	R648	L583	V522	R460	K395	D288	Q204	G145	Q80	L15
V973	G844	V649	K781	R714	V649	E584	V523	V461	D396	L269	E205	G146	P79	P16
L974	R845	R650	A782	T715	R650	E585	V524	D462	E397	G270	L206	V146	Q80	P17
Y975	K846	K651	A785	T716	K651	R586	S525	E463	T398	E271	L207	Y147	E84	L18
G976	V849	G652	V785	K716	G652	V587	P526	L464	Q399	A272	A208	F148	E85	T19
G977	V849	D653	K786	L717	D653	V588	E527	G465	P400	G273	R209	T149	E20	E20
R978	L852	L654	D787	L717	L654	R589	E528	F466	L401	R274	E210	P150	D87	I21
L979	L853	L655	T788	R720	L655	D590	V529	I467	S402	Y275	L211	P151	L88	Q22
Q980	A919	G840	S789	R721	A656	L596	E530	R468	S403	K276	G212	P152	L88	Q22
E981	P854	A656	G795	R722	D657	L597	F531	T469	L405	E279	A213	R153	T89	S25
P982	V855	D657	G795	T723	D657	A596	N532	P470	R405	K280	G215	R154	Y90	Y26
P983	E856	D653	V792	R724	A660	A597	D533	Y471	H406	K281	G215	P155	Q91	T27
E984	D857	L654	P793	D725	G664	E598	V534	R472	K407	G282	L217	G156	A92	A29
G985	R858	L655	P794	I726	G664	E599	S535	R473	R408	L281	L217	R157	P93	L30
P986	P859	A656	G795	R727	F665	D600	P536	V474	R409	G282	Y218	Y158	L94	Q31
L987	H860	L666	G795	H728	L666	G601	K537	V475	L410	L285	Q219	I159	Y95	A32
V988	L861	A667	G798	L729	A667	E602	O538	V475	S411	S286	G220	A160	A96	D33
V989	P862	L668	T799	S730	L668	F603	V539	V478	A412	G287	L221	S161	R97	P34
G990	D863	G669	V800	E731	G669	A604	F539	V479	L413	G288	M222	I162	R98	P35
Q991	K930	Q670	R801	A732	Q670	K605	S541	T480	G414	T289	D223	I163	Q99	P36
M992	G864	N671	R802	A733	N671	V606	V542	D481	P415	L290	E224	P164	L100	E37
F993	P866	L672	T803	L734	L672	D607	N543	E482	G416	A291	S225	L165	I101	K38
L994	V867	L673	R804	R735	L673	G608	G608	E482	G417	R292	V226	P166	H102	R39
M995	D868	V674	R805	D736	V674	R609	N610	Y485	L418	F293	F227	K167	E40	E40
K996	V869	A675	R808	L737	A675	R610	P611	M486	T419	E294	A228	R168	K103	M41
L997	I870	L676	G809	D738	L676	V611	P612	T487	R420	G297	M229	G169	D104	V42
Y998	P873	P677	G810	E739	P677	V612	V613	A488	E421	E297	R230	P170	G106	V42
H999	L874	P678	D810	E740	P678	V613	L550	T489	R422	F298	P231	W171	L107	G43
M1000	G875	D680	P811	G741	P679	R614	E551	E490	A423	K299	E232	I172	L108	I44
V1001	V876	D681	G812	V742	D680	V615	H552	E491	G424	D300	E233	I173	I108	Q45
E1002	P877	G881	V813	V743	G881	E616	D553	D492	F425	E301	A234	L174	E109	A46
D1003	R877	N682	L814	R744	N682	L620	D554	R493	D426	V302	L235	E175	D111	A47
K1004	R879	G683	L815	I745	G683	V621	A555	Y494	V427	F303	L236	V176	E112	F48
M1005	R880	F684	K816	G746	F684	E622	N556	T495	R428	L304	R237	E177	V113	R49
E1008	N881	D686	G818	A747	D686	E623	R557	I496	D429	P305	L238	P178	F114	E50
S1009	L882	A687	V819	E748	A687	Y623	A558	A497	V430	T306	F239	M179	L115	T51
T1010	G883	L688	R820	K750	L688	F624	L559	Q498	H431	L307	G180	G180	G116	F52
G1011	Q884	V689	E821	R626	V689	R625	M560	A499	R432	K371	V181	V181	G117	P53
P1012	L885	L690	V822	R627	L690	R627	S562	T501	T433	V373	V182	V182	L117	P54
L1013	L886	S691	R823	F628	S691	F628	S562	T501	T433	V373	V182	V182	L118	E55
S1014	V887	E692	R824	V629	E692	V629	N564	P502	Y435	S375	G245	S183	P119	E56
L1015	T888	E693	V825	R630	E693	R630	Q665	E504	R437	P377	D246	M184	L120	K59
T1016	H889	L694	Y826	S631	L694	S631	T566	E504	R437	P377	R250	K185	M121	K59
L1017	L890	N692	V827	N632	N692	N632	V567	E504	R437	P377	D251	V186	L120	G60
Q1018	K957	K696	A828	S760	K696	Q633	A568	R507	V441	E442	A253	K188	D124	K61
														L64

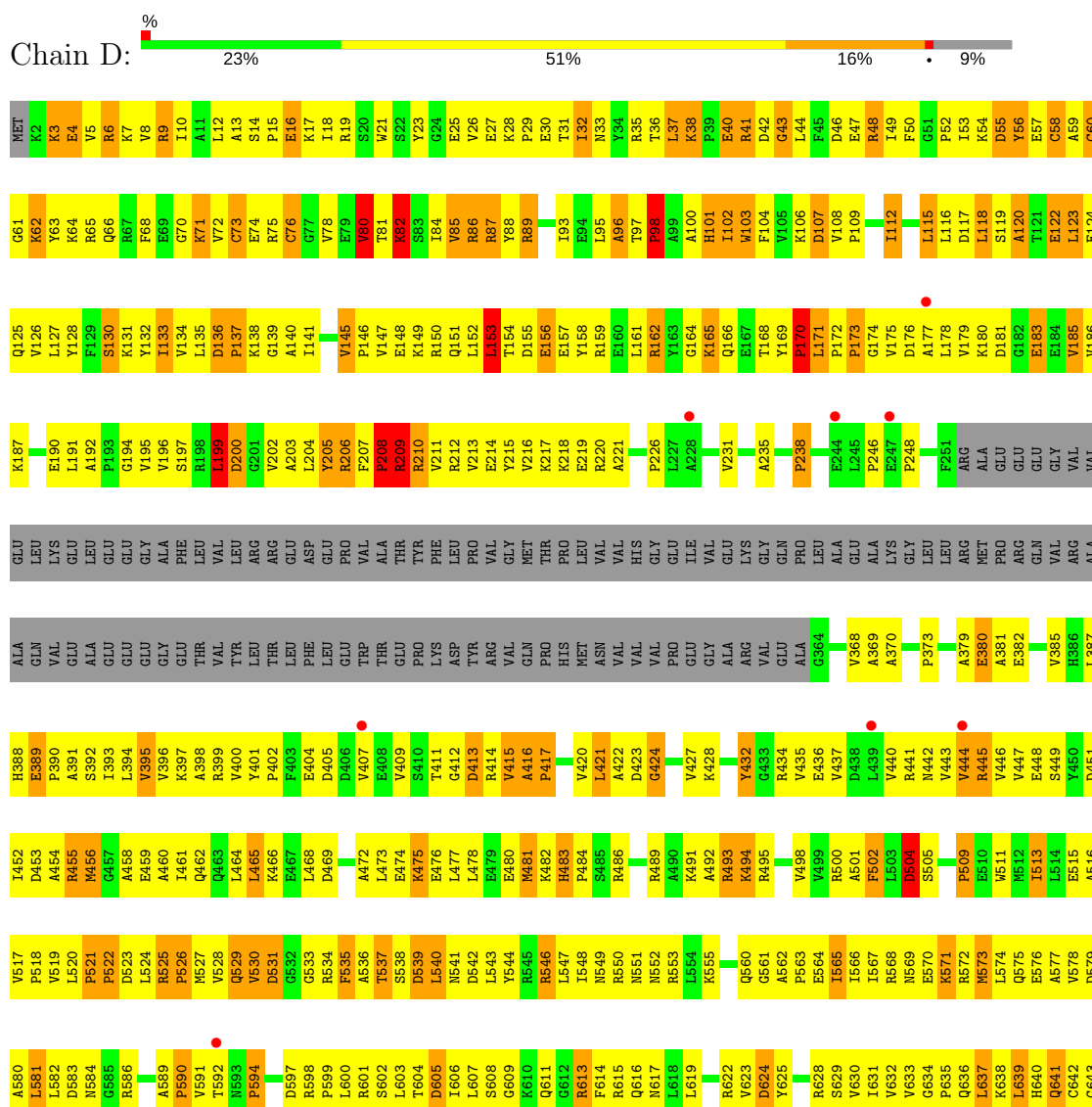


• Molecule 2: DNA-directed RNA polymerase beta chain



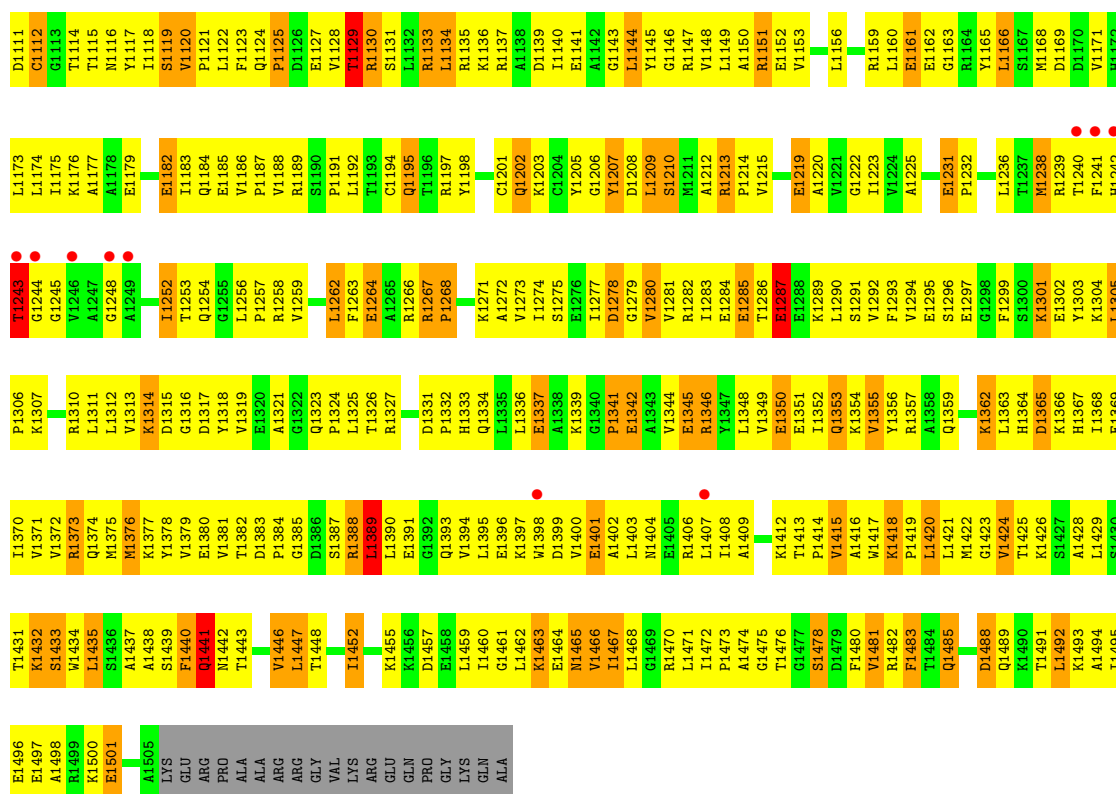


• Molecule 3: DNA-directed RNA polymerase beta' chain

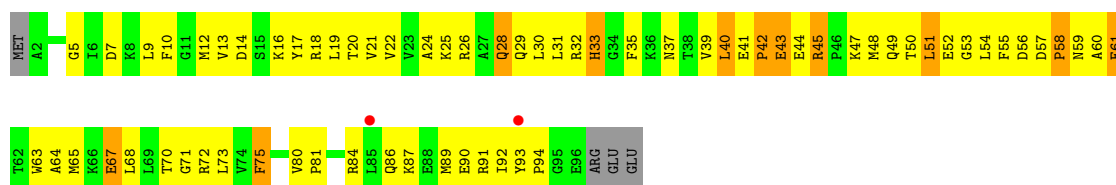




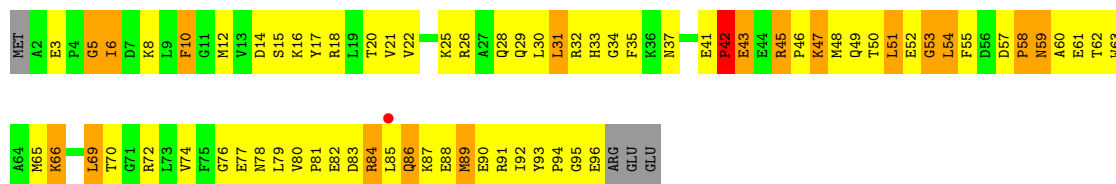
M1045	L983	N909	Y841	L778	A715	A649	D583	P521	I461	V395	GLU	PHE	V126	Y63
Q1046	T984	S910	V842	A779	F716	L650	M684	P522	Q462	V396	THR	LEU	L127	K64
K1047	D985	L911	F843	K780	Q717	E651	G585	D523	Q463	K397	VAL	VAL	Y128	R65
P1048	R986	K912	A844	P781	P718	L652	R586	L524	L464	A386	LEU	LEU	F129	Q66
S1049	E987		J845	S782	W719	F653	R587	R525	L465	K399	LEU	ARG	S130	R67
G1050	R988	V915	P846	S783	L720	K654	P526	P526	K466	V400	THR	ARG	K131	F68
E1051	Y989	Y916		D784		P655	P590	N527	E467	Y401	LEU	GLU	Y132	
T1052	D990	Q917	L850	I785	Q723	F656	V591	V528	L468	P402	ASP	ASP	I133	K71
F1053	A991	A918	L851	I786	Q724	L657	T592	Q529	D469	F403	LEU	LEU	V134	V72
	R992	F919	A852	L787	S725	L658	N593	V530	L470	E404	PRO	PRO	L135	C73
P1056	L993	L920	V853	Q788	I726	K659	P594		E471		TRP	VAL	D136	E74
V1057	Q994	R921	V857	L789	Q727	K660		G533	A472	E408	ALA	ALA	P137	R75
L1058	L995	L922	V861	W790	L728	M661		P539	L473		GLU	THR	V202	C76
S1059	W996	G923	V858	Y791	H729	E662		P598	E474		THR	THR	G138	G77
T1060	T997	N924	D859	I792	P730	E663		P599	K475		PRO	PRO	G139	G77
F1061	E998	R925	L860	Q793	L731				E476		LYS	LEU	A140	V78
E1062	T999	K926	Q861	Q794	L732				L477		ASP	ASP	I141	E79
E1063	T1000	T927	V862	Q795	V732				L478		TYR	PRO	L142	V80
K1064	E1001	A928	V863	R796	E734				L479		VAL	VAL	R143	T81
L1065	K1002		V864	R797	A735				E480		GLY	GLY	G144	X82
T1066	V1003	L931	T865	E798	F736				M481		MET	MET	V145	S83
V1067	T1004	D932	V866	K799	Q737				K482		THR	THR	P146	R84
L1068	Q1005	A933	R867	K800	A738				H483		PRO	PRO	V147	V85
E1069	A1006	L934	R877	G801	A739				P484		LEU	LEU	E148	R86
Y1070	V1007	K935	P877	T808	F740				S485		ASN	VAL	K149	R87
F1071	F1008	Y936	G878	P809	V747				L492		VAL	VAL	R150	X88
T1072	K1009	Y937	R879	E910	H743				R493		GLY	HIS	Q151	R89
S1073	S1010	T948	L880	A911	V749				K494		GLY	GLY	L152	R90
S1074	F1011	F939	T875	F806	Q744				R495		PRO	PRO	L153	
	E1012		R876	A807	M745				A490		GLY	ILE	K218	
			P877	T808	F746				K491		ALA	VAL	E214	
A1077	E1013	S945	G878	P809	V747				L492		LYS	LYS	R155	
R1078	N1014	Q946	R879	E910	H743				R493		GLY	GLY	E157	
T1079	P1018	T948	L880	A911	V749				K494		GLN	GLN	Y158	
D1083	Y1020	G950	F882	L813	P750				R495		ALA	ALA	E160	
T1084	Y1021	I951	A883	A814					A497		LEU	LEU	L161	
R1087	V1022	D952	R884						E497		ALA	ALA	R162	
	M1023	D953	T885						V498		GLU	GLU	K165	
D1090	A1024	A954	V886	E817	F754				V499		ALA	ALA	Q166	
S1091	Q1025	V955	A887	A757	Q756				R500		ALA	ALA	E167	
G1092	S1026	I956	E888	E758	E758				F502		LYS	LYS	Q168	
Y1093	G1027	P957	A889	A759	A759				F502		GLY	GLY	T168	
L1094	A1028	E958	V890	I827	I761				L503		LEU	LEU	Y169	
T1095	R1029	E959	E891	R828	Q762				D504		LEU	LEU	P170	
R1096	G1030	K960	D892	P826	L764				S505		MET	MET	L171	
K1097	N1031	K961	K894	I827	S765				P509		ARG	ARG	P172	
L1098	Q1032	P1034	V895	V829	A766				R509		PRO	PRO	G173	
T1099	Q1034	E965	A896	V829	H767				E570		GLN	GLN	V175	
V1101	H1035		V897	A830	H768				E510		VAL	VAL	D176	
T1102	L1036	D968	E898	G831	Q769				E511		ALA	ALA	A177	
H1103	Q1037	R969	L899	R832	L770				M512		ALA	ALA	V178	
L1104	L1038	K970	T900	E833	S771				L387		GLN	GLN	V179	
I1105	G1039	L971	Q901	T834	Q772				D452		VAL	VAL	D181	
V1106	G1040	L972	L902	S835	A773				E454		GLU	GLU	E182	
V1107	L1041		Q906	V836	S774				E515		ALA	ALA	E183	
R1108	R1042	Q976	G837	E776	G775				V517		GLU	GLU	E184	
E1109	G1043	E907	R838		E776				P518		GLU	GLU	V185	
A1110	L1044	F982	K908		P777				E459		GLY	GLY	E186	
									L520		GLY	GLY	K187	



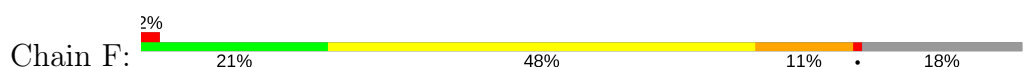
• Molecule 4: RNA polymerase omega chain

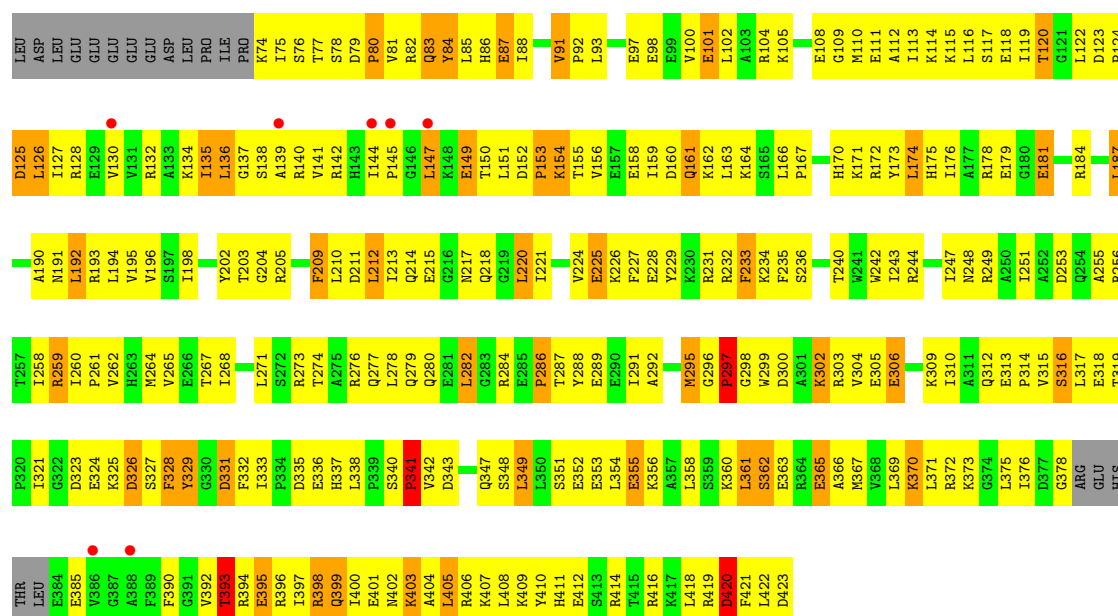


• Molecule 4: RNA polymerase omega chain

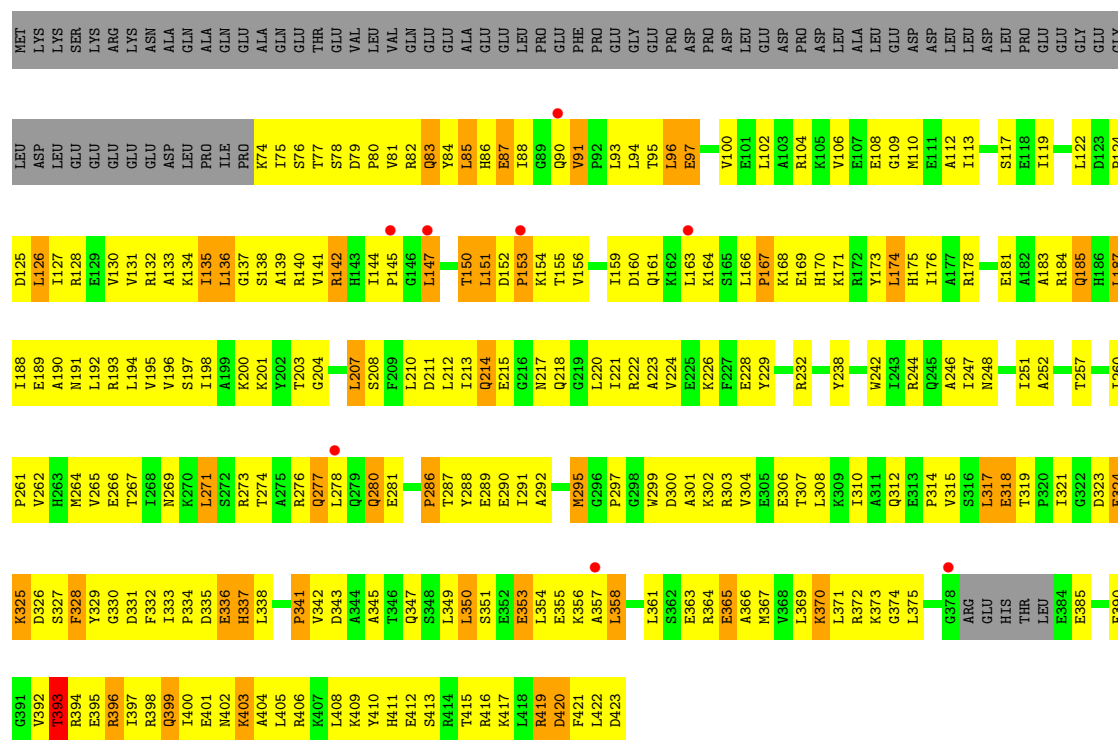


• Molecule 5: RNA polymerase sigma factor rpoD





• Molecule 5: RNA polymerase sigma factor rpoD



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	239.50Å 239.50Å 253.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.50 24.85 – 2.50	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.50) 91.2 (24.85-2.50)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.13 (at 2.50Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.225 , 0.257 0.223 , 0.255	Depositor DCC
R_{free} test set	29386 reflections (6.10%)	DCC
Wilson B-factor (Å ²)	45.1	Xtriage
Anisotropy	0.178	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 77.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.23$	Xtriage
Estimated twinning fraction	0.499 for -h,-k,l 0.085 for h,-h-k,-l 0.085 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	61089	wwPDB-VP
Average B, all atoms (Å ²)	67.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.18% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, RBT, 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	0.79	1/1838 (0.1%)	0.86	2/2498 (0.1%)
1	B	0.73	0/1838	0.82	3/2498 (0.1%)
1	K	0.75	0/1838	0.84	2/2498 (0.1%)
1	L	0.71	1/1838 (0.1%)	0.78	0/2498
2	C	0.81	0/8997	0.88	6/12164 (0.0%)
2	M	0.79	0/8997	0.88	8/12164 (0.1%)
3	D	0.82	0/10975	0.93	22/14836 (0.1%)
3	N	0.80	0/10975	0.91	14/14836 (0.1%)
4	E	0.82	0/783	0.98	1/1054 (0.1%)
4	O	0.84	0/783	0.96	1/1054 (0.1%)
5	F	0.73	0/2812	0.82	2/3781 (0.1%)
5	P	0.71	0/2812	0.80	1/3781 (0.0%)
All	All	0.79	2/54486 (0.0%)	0.88	62/73662 (0.1%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	48	ILE	C-N	5.18	1.44	1.34
1	L	172	SER	N-CA	-5.06	1.36	1.46

All (62) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	138	LEU	CA-CB-CG	8.26	134.29	115.30
3	D	199	LEU	CA-CB-CG	-8.08	96.72	115.30
3	N	199	LEU	CA-CB-CG	-7.83	97.28	115.30
3	N	1389	LEU	CA-CB-CG	7.33	132.15	115.30
5	F	361	LEU	CA-CB-CG	7.04	131.49	115.30
3	N	705	ALA	C-N-CD	6.92	142.94	128.40
3	D	637	LEU	CA-CB-CG	6.79	130.91	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	P	136	LEU	CA-CB-CG	6.19	129.54	115.30
1	A	192	LEU	CA-CB-CG	6.15	129.44	115.30
2	C	98	LEU	CA-CB-CG	6.07	129.25	115.30
2	M	571	LEU	CA-CB-CG	6.06	129.24	115.30
3	D	80	VAL	C-N-CA	6.02	136.75	121.70
1	K	115	LEU	CA-CB-CG	6.01	129.13	115.30
3	D	73	CYS	CA-CB-SG	5.91	124.64	114.00
3	N	80	VAL	C-N-CA	5.83	136.27	121.70
2	M	243	ARG	C-N-CD	-5.80	107.84	120.60
3	D	1209	LEU	N-CA-C	-5.78	95.39	111.00
3	N	1209	LEU	N-CA-C	-5.77	95.43	111.00
3	D	238	PRO	N-CA-CB	5.76	110.21	103.30
5	F	354	LEU	CA-CB-CG	5.73	128.48	115.30
2	C	260	LEU	CA-CB-CG	5.73	128.47	115.30
3	N	209	ARG	N-CA-C	5.72	126.45	111.00
3	D	1395	LEU	CA-CB-CG	5.72	128.46	115.30
3	D	581	LEU	CA-CB-CG	5.67	128.34	115.30
3	D	208	PRO	CA-N-CD	-5.62	103.63	111.50
3	D	153	LEU	CA-CB-CG	5.61	128.20	115.30
2	M	165	LEU	C-N-CD	-5.57	108.35	120.60
3	N	82	LYS	C-N-CA	-5.57	107.79	121.70
3	D	1134	LEU	CA-CB-CG	5.52	127.99	115.30
3	N	554	LEU	CA-CB-CG	5.50	127.96	115.30
1	A	115	LEU	CA-CB-CG	5.50	127.95	115.30
2	M	100	LEU	CA-CB-CG	5.50	127.95	115.30
1	B	25	LEU	CA-CB-CG	5.49	127.93	115.30
3	D	209	ARG	N-CA-C	5.46	125.74	111.00
3	D	226	PRO	N-CA-CB	5.40	109.78	103.30
3	N	380	GLU	N-CA-C	-5.40	96.42	111.00
3	D	21	TRP	CA-CB-CG	5.40	123.95	113.70
3	N	248	PRO	N-CA-CB	5.40	109.78	103.30
3	D	248	PRO	N-CA-CB	5.36	109.73	103.30
3	D	839	LEU	CA-CB-CG	5.35	127.61	115.30
1	K	127	LEU	CA-CB-CG	5.33	127.55	115.30
2	M	207	LEU	CA-CB-CG	5.29	127.46	115.30
4	O	31	LEU	CA-CB-CG	5.27	127.41	115.30
3	N	208	PRO	CA-N-CD	-5.24	104.16	111.50
3	D	60	CYS	CA-CB-SG	5.19	123.35	114.00
3	D	380	GLU	N-CA-C	-5.19	97.00	111.00
2	M	244	PRO	CA-N-CD	-5.18	104.25	111.50
2	C	243	ARG	C-N-CD	-5.16	109.25	120.60
2	M	114	PHE	CB-CG-CD2	-5.16	117.19	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2	LEU	CA-CB-CG	5.15	127.14	115.30
3	N	238	PRO	N-CA-CB	5.14	109.47	103.30
3	D	80	VAL	CA-C-N	-5.13	105.90	117.20
3	D	1389	LEU	CA-CB-CG	5.13	127.09	115.30
2	C	1097	LEU	CA-CB-CG	5.11	127.05	115.30
2	M	729	LEU	N-CA-C	5.10	124.77	111.00
4	E	51	LEU	CA-CB-CG	5.08	126.99	115.30
3	N	423	ASP	N-CA-C	5.07	124.70	111.00
2	C	207	LEU	CA-CB-CG	5.06	126.93	115.30
3	D	1312	LEU	CA-CB-CG	5.03	126.86	115.30
3	D	1207	TYR	CA-CB-CG	5.03	122.95	113.40
3	N	813	LEU	CA-CB-CG	5.02	126.84	115.30
2	C	728	HIS	N-CA-C	5.01	124.53	111.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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	231	0
1	B	1806	0	1861	211	0
1	K	1806	0	1861	199	0
1	L	1806	0	1861	202	0
2	C	8829	0	8933	1201	0
2	M	8829	0	8933	1179	0
3	D	10797	0	10873	1404	0
3	N	10797	0	10873	1285	0
4	E	769	0	775	92	0
4	O	769	0	775	99	0
5	F	2771	0	2844	340	0
5	P	2771	0	2844	315	0
6	A	31	0	0	0	0
6	B	23	0	0	0	0
6	C	81	0	0	0	0
6	D	137	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	E	10	0	0	0	0
6	F	31	0	0	0	0
6	K	21	0	0	0	0
6	L	25	0	0	0	0
6	M	69	0	0	0	0
6	N	108	0	0	0	0
6	O	6	0	0	0	0
6	P	20	0	0	0	0
7	C	61	0	61	3	0
7	M	61	0	61	3	0
8	D	2	0	0	0	0
8	N	2	0	0	0	0
9	A	253	0	0	49	0
9	B	307	0	0	49	0
9	C	1000	0	0	202	0
9	D	1418	0	0	282	0
9	E	112	0	0	22	0
9	F	456	0	0	98	0
9	K	213	0	0	34	0
9	L	237	0	0	58	0
9	M	998	0	0	255	0
9	N	1357	0	0	240	0
9	O	117	0	0	26	0
9	P	377	0	0	75	0
All	All	61089	0	54416	6365	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 59.

All (6365) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.08	1.12
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.27	1.11
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.35	1.08
2:C:630:ARG:HH21	2:C:705:ILE:HG22	1.18	1.07
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.34	1.06
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.38	1.05
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.41	1.03
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.16	1.03
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.40	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.42	1.02
3:D:796:ARG:HH11	3:D:861:GLN:HB2	1.22	1.01
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.40	1.01
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.42	1.01
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.39	1.00
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.42	1.00
3:N:898:GLU:HB2	3:N:921:ARG:HH22	1.27	1.00
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.10	1.00
3:D:1045:MET:HG2	3:D:1073:SER:HA	1.40	0.99
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.44	0.99
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.43	0.99
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.27	0.99
2:C:305:PRO:HB3	2:C:308:ARG:HH21	1.29	0.98
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.44	0.98
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.42	0.98
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.41	0.98
3:D:1095:THR:HG23	3:D:1230:GLY:HA3	1.44	0.98
4:E:41:GLU:O	4:E:45:ARG:HG2	1.64	0.98
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.27	0.98
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.47	0.97
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.45	0.97
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.46	0.97
3:N:9:ARG:HH12	3:N:506:GLY:HA2	1.27	0.97
2:M:404:LEU:HA	2:M:407:LYS:HD3	1.47	0.96
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.48	0.96
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.46	0.96
3:N:1101:VAL:HG21	3:N:1424:VAL:HG22	1.44	0.96
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.45	0.95
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.30	0.94
1:K:24:VAL:HG22	1:K:196:THR:HB	1.50	0.94
1:B:152:PRO:HD2	1:B:155:LYS:HD3	1.45	0.94
1:L:152:PRO:HD2	1:L:155:LYS:HD3	1.50	0.94
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.50	0.93
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.50	0.93
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.48	0.93
2:C:773:LEU:HB2	5:F:373:LYS:HB3	1.48	0.93
3:D:1066:THR:HG22	3:D:1069:GLU:HB2	1.51	0.93
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.50	0.93
3:D:572:ARG:HH21	5:F:83:GLN:HE21	1.17	0.93
2:C:41:ASN:HD22	2:C:41:ASN:H	0.96	0.93
2:C:979:THR:HG23	2:C:981:GLU:H	1.34	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.34	0.92
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.52	0.92
5:P:361:LEU:HG	5:P:408:LEU:HD21	1.52	0.92
2:M:409:ARG:HA	2:M:454:SER:HA	1.50	0.92
3:N:704:ARG:HD2	3:N:705:ALA:H	1.35	0.92
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.48	0.91
2:M:1081:VAL:HG21	2:M:1111:ILE:HG22	1.49	0.91
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.50	0.91
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.52	0.91
2:M:724:ARG:HG3	2:M:740:GLU:HA	1.50	0.91
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.50	0.91
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.51	0.91
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.52	0.91
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.53	0.91
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.53	0.90
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.53	0.90
2:M:1111:ILE:HD12	2:M:1112:PHE:H	1.36	0.90
2:M:979:THR:HG23	2:M:981:GLU:H	1.37	0.90
3:N:699:VAL:H	3:N:756:GLN:NE2	1.69	0.89
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.55	0.89
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.37	0.89
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.53	0.89
2:C:328:LEU:HD13	2:C:433:THR:HB	1.52	0.89
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.55	0.89
2:C:689:VAL:HB	2:C:870:ILE:HG13	1.53	0.89
5:F:76:SER:O	5:F:80:PRO:HD2	1.73	0.89
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.52	0.89
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.53	0.89
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.53	0.89
3:N:210:ARG:HH11	3:N:398:ALA:HB3	1.38	0.89
3:D:1209:LEU:HB3	3:D:1211:MET:HG2	1.54	0.88
3:N:616:GLN:HE22	3:N:619:LEU:HD12	1.34	0.88
2:C:1114:GLY:H	2:C:1115:LEU:HD12	1.38	0.88
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.18	0.88
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.53	0.88
3:N:1380:GLU:HB3	3:N:1418:LYS:HG3	1.52	0.88
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.38	0.88
3:D:1096:ARG:HH11	3:D:1096:ARG:HB2	1.37	0.88
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.55	0.88
2:M:115:LEU:HD22	2:M:373:VAL:HG11	1.55	0.88
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.55	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.55	0.87
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.57	0.87
3:N:565:ILE:H	3:N:565:ILE:HD12	1.39	0.87
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.55	0.87
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.54	0.87
2:C:1096:ALA:O	3:D:13:ALA:HB2	1.74	0.87
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.57	0.87
1:K:186:LEU:HB2	1:K:192:LEU:HD11	1.55	0.86
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.54	0.86
3:D:1310:ARG:HD3	3:D:1310:ARG:H	1.40	0.86
5:P:133:ALA:HB2	5:P:142:ARG:HH21	1.37	0.86
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.54	0.86
2:M:289:THR:HG22	2:M:290:LEU:HD23	1.56	0.86
2:C:692:GLU:HG2	2:C:696:LYS:HE3	1.57	0.86
3:D:572:ARG:HH21	5:F:83:GLN:NE2	1.73	0.86
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.55	0.86
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.39	0.85
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.57	0.85
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.57	0.85
3:N:1485:GLN:HE21	4:O:80:VAL:H	1.21	0.85
3:D:82:LYS:H	3:D:82:LYS:HE3	1.42	0.85
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.58	0.85
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.58	0.85
2:C:41:ASN:N	2:C:41:ASN:HD22	1.73	0.85
2:M:332:ARG:HH21	2:M:464:LEU:HD11	1.41	0.85
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.57	0.85
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.58	0.85
1:L:124:ASN:HD22	1:L:127:LEU:HD22	1.41	0.85
1:L:32:PHE:HB2	9:L:3706:HOH:O	1.76	0.85
2:C:860:HIS:HB2	9:C:9638:HOH:O	1.76	0.84
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.59	0.84
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.92	0.84
2:M:1054:THR:HG22	2:M:1059:ASP:HB2	1.60	0.84
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.58	0.84
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.59	0.84
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.40	0.84
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.60	0.84
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.60	0.84
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.58	0.84
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.59	0.83
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.60	0.83
1:K:100:LEU:HB2	1:K:115:LEU:HD11	1.59	0.83
3:N:796:ARG:HD3	3:N:861:GLN:HB2	1.60	0.83
2:C:186:VAL:HG23	2:C:187:ASN:H	1.43	0.83
3:D:721:VAL:HG21	3:D:727:GLN:HE21	1.44	0.83
3:N:1160:LEU:HD11	3:N:1174:LEU:HD21	1.59	0.83
3:D:86:ARG:O	3:D:522:PRO:HD2	1.79	0.83
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.42	0.83
2:M:670:GLN:O	2:M:672:VAL:HG12	1.78	0.83
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.58	0.83
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.60	0.83
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.61	0.83
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.61	0.82
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.59	0.82
2:M:693:GLU:HG3	9:M:9861:HOH:O	1.78	0.82
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.61	0.82
3:D:493:ARG:HH22	3:D:1389:LEU:HG	1.42	0.82
3:D:560:GLN:HG2	5:F:218:GLN:HE22	1.44	0.82
3:D:1215:VAL:HG11	9:D:9876:HOH:O	1.79	0.82
3:N:152:LEU:HD23	3:N:152:LEU:H	1.44	0.82
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.61	0.82
3:N:53:ILE:HG23	3:N:54:LYS:H	1.44	0.82
4:E:67:GLU:HB2	4:E:73:LEU:HD11	1.61	0.82
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.62	0.82
3:D:422:ALA:H	3:D:427:VAL:HG11	1.45	0.81
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.60	0.81
2:M:1005:MET:HB2	3:N:648:MET:HE1	1.61	0.81
2:M:834:GLN:HA	9:M:2100:HOH:O	1.80	0.81
4:O:51:LEU:HG	4:O:53:GLY:H	1.46	0.81
3:D:1209:LEU:HD22	3:D:1211:MET:SD	2.21	0.81
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.45	0.81
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.62	0.81
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.16	0.81
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.62	0.81
2:M:507:ARG:HB2	2:M:507:ARG:HH11	1.46	0.81
3:N:542:ASP:O	3:N:546:ARG:HG2	1.81	0.81
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.63	0.81
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.60	0.80
1:L:84:GLU:HB3	1:L:127:LEU:HD21	1.63	0.80
2:M:18:LEU:HB2	2:M:590:ASP:HB3	1.62	0.80
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.62	0.80
2:C:886:LEU:HG	3:D:951:ILE:HG13	1.63	0.80
3:N:1097:LYS:HA	9:N:9580:HOH:O	1.81	0.80
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.63	0.80
3:D:1066:THR:HG23	3:D:1069:GLU:H	1.47	0.80
3:N:1480:PHE:HD2	3:N:1481:VAL:HG22	1.46	0.80
2:C:724:ARG:HG3	2:C:741:GLY:H	1.46	0.80
5:F:123:ASP:HB2	5:F:126:LEU:HD13	1.63	0.80
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.64	0.80
2:C:671:ASN:HD22	2:C:671:ASN:N	1.78	0.80
3:D:720:LEU:H	3:D:720:LEU:HD12	1.46	0.80
3:D:978:TYR:HA	9:D:9941:HOH:O	1.80	0.80
2:M:704:HIS:HB2	2:M:831:ARG:HE	1.46	0.80
2:C:650:ARG:HG3	2:C:653:ASP:HB2	1.63	0.80
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.64	0.80
3:N:119:SER:HB2	3:N:123:LEU:H	1.47	0.80
2:M:1015:LEU:HA	5:P:335:ASP:HB2	1.63	0.80
2:C:630:ARG:NH2	2:C:705:ILE:HG22	1.97	0.79
2:C:768:THR:HB	2:C:771:GLU:HB3	1.64	0.79
3:N:536:ALA:HA	5:P:315:VAL:H	1.45	0.79
1:A:152:PRO:HA	9:C:9876:HOH:O	1.82	0.79
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.63	0.79
2:M:1095:LEU:HD23	3:N:582:LEU:HD22	1.62	0.79
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.64	0.79
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.63	0.79
3:D:1040:GLY:O	3:D:1060:SER:HB3	1.82	0.79
3:N:422:ALA:H	3:N:427:VAL:HG11	1.46	0.79
5:P:76:SER:O	5:P:80:PRO:HD2	1.82	0.79
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.64	0.79
1:A:95:GLN:HA	1:A:146:ARG:HH12	1.47	0.79
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.81	0.79
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.63	0.79
3:N:1137:ARG:HA	3:N:1140:ILE:HD12	1.65	0.79
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.47	0.79
3:N:572:ARG:HH22	5:P:83:GLN:HG3	1.48	0.79
2:C:1013:TYR:HB3	9:C:2163:HOH:O	1.82	0.78
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.65	0.78
3:D:1127:GLU:HG3	3:D:1133:ARG:HH12	1.47	0.78
3:N:658:LEU:HD21	3:N:674:ARG:HG3	1.64	0.78
1:A:42:ARG:NH1	2:C:857:ASP:HB3	1.93	0.78
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:361:LEU:HD23	5:F:362:SER:H	1.46	0.78
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.65	0.78
3:D:1467:ILE:HG22	9:D:9901:HOH:O	1.83	0.78
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.63	0.78
1:L:185:ARG:HA	9:L:4234:HOH:O	1.83	0.78
3:D:1130:ARG:HB2	3:D:1130:ARG:HH11	1.46	0.78
1:L:13:VAL:HG11	1:L:208:LEU:HD11	1.66	0.78
2:M:140:ILE:HG23	2:M:333:ILE:HG13	1.66	0.78
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.65	0.78
3:N:428:LYS:HE3	3:N:434:ARG:HH12	1.47	0.78
3:N:535:PHE:HB3	5:P:314:PRO:HB3	1.64	0.78
3:D:493:ARG:NH1	3:D:1390:LEU:HB2	1.98	0.78
3:N:704:ARG:HG3	3:N:736:PHE:HB3	1.66	0.78
3:N:1144:LEU:HD12	3:N:1171:VAL:HG13	1.64	0.78
2:C:882:LEU:HD23	3:D:951:ILE:HG12	1.65	0.78
3:D:65:ARG:HG3	3:D:66:GLN:H	1.49	0.78
2:M:610:ARG:HB2	9:M:2445:HOH:O	1.83	0.78
3:D:871:LYS:HE3	3:D:873:LEU:HD21	1.64	0.78
3:N:52:PRO:HG3	3:N:78:VAL:HG22	1.64	0.78
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.65	0.78
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.65	0.78
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.66	0.78
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.82	0.77
3:N:1124:GLN:HE21	3:N:1133:ARG:HD3	1.48	0.77
3:D:756:GLN:HE21	3:D:760:ARG:HD2	1.47	0.77
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.67	0.77
1:L:103:ALA:HB1	1:L:107:LYS:HE3	1.66	0.77
3:D:1311:LEU:HA	9:D:9899:HOH:O	1.85	0.77
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.67	0.77
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.66	0.77
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.15	0.77
3:D:73:CYS:HB3	3:D:76:CYS:O	1.84	0.77
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.49	0.77
3:N:86:ARG:O	3:N:522:PRO:HD2	1.85	0.77
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.66	0.77
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.64	0.77
1:L:63:HIS:HB2	9:L:6262:HOH:O	1.84	0.77
3:N:907:GLU:HB3	9:N:2356:HOH:O	1.83	0.77
5:P:409:LYS:HB2	9:P:3891:HOH:O	1.85	0.77
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.67	0.77
3:D:41:ARG:HD3	3:D:42:ASP:H	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1406:ARG:HG3	3:N:1412:LYS:HG3	1.65	0.77
3:D:1194:CYS:HB2	9:D:9616:HOH:O	1.85	0.77
5:P:142:ARG:NH1	5:P:142:ARG:HB3	1.99	0.77
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.67	0.76
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.66	0.76
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.65	0.76
3:N:898:GLU:HB2	3:N:921:ARG:NH2	2.01	0.76
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.68	0.76
2:C:41:ASN:H	2:C:41:ASN:ND2	1.77	0.76
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.68	0.76
5:F:117:SER:HA	9:F:9677:HOH:O	1.85	0.76
2:M:274:ARG:HD2	2:M:285:LEU:HB3	1.65	0.76
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.67	0.76
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.66	0.76
1:B:99:LEU:HD21	1:B:122:ILE:HD11	1.67	0.76
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.65	0.76
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.66	0.76
2:M:614:ARG:HG3	2:M:620:LEU:HD12	1.66	0.76
3:N:124:GLU:HB2	9:N:9606:HOH:O	1.83	0.76
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.49	0.76
3:D:1462:LEU:HD22	3:D:1473:PRO:HD2	1.67	0.76
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.66	0.76
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	2.01	0.76
5:P:358:LEU:HD21	5:P:370:LYS:HZ2	1.49	0.76
2:M:511:GLU:O	2:M:526:PRO:HD3	1.86	0.76
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.68	0.76
3:D:148:GLU:HB3	3:D:151:GLN:HE21	1.50	0.76
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.68	0.76
2:M:100:LEU:HD21	2:M:368:THR:HA	1.68	0.76
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.68	0.76
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.84	0.76
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.84	0.75
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.86	0.75
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.66	0.75
2:C:1090:LYS:HE2	2:C:1112:PHE:HE1	1.51	0.75
4:E:84:ARG:HG3	9:E:9600:HOH:O	1.86	0.75
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.67	0.75
3:D:793:THR:HG22	3:D:879:ARG:HA	1.68	0.75
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.52	0.75
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.68	0.75
3:N:1120:VAL:HG23	3:N:1186:VAL:HB	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.68	0.75
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.68	0.75
2:C:943:VAL:HG23	2:C:985:GLY:H	1.50	0.75
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.68	0.75
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.67	0.75
3:N:907:GLU:HB2	9:N:2764:HOH:O	1.86	0.75
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.69	0.75
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.50	0.75
2:M:134:ARG:HH21	2:M:393:GLN:HA	1.50	0.75
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.69	0.75
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.68	0.75
3:D:119:SER:HB2	3:D:123:LEU:H	1.50	0.75
3:D:890:VAL:HG13	3:D:926:LYS:NZ	2.01	0.75
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.69	0.75
2:C:329:GLY:N	2:C:488:ALA:HB3	2.01	0.74
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.70	0.74
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.67	0.74
4:E:30:LEU:O	4:E:35:PHE:HA	1.88	0.74
5:F:310:ILE:HB	9:F:9734:HOH:O	1.87	0.74
5:F:396:ARG:HG2	9:F:9581:HOH:O	1.86	0.74
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.69	0.74
3:N:1418:LYS:HG2	9:N:9876:HOH:O	1.86	0.74
3:D:493:ARG:HE	3:D:1388:ARG:HB3	1.51	0.74
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	1.86	0.74
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.87	0.74
5:P:164:LYS:HA	5:P:171:LYS:HE2	1.67	0.74
2:C:129:ILE:HD13	2:C:134:ARG:HB2	1.69	0.74
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.68	0.74
3:D:1213:ARG:H	3:D:1213:ARG:HE	1.32	0.74
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.02	0.74
1:L:161:ARG:HB2	9:L:6438:HOH:O	1.86	0.74
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.52	0.74
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.52	0.74
2:C:110:GLU:H	2:C:368:THR:HG21	1.52	0.74
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.70	0.74
2:M:691:SER:HB2	2:M:858:MET:SD	2.27	0.74
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.68	0.74
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.51	0.74
3:N:194:GLY:H	3:N:206:ARG:HA	1.52	0.74
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	1.68	0.74
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.50	0.74
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.22	0.74
5:P:131:VAL:HG13	5:P:178:ARG:HG2	1.70	0.74
2:C:930:LYS:HA	9:C:9664:HOH:O	1.87	0.74
3:N:679:ARG:HH12	3:N:681:ARG:HD2	1.52	0.74
3:N:907:GLU:HA	9:N:9764:HOH:O	1.87	0.74
5:P:133:ALA:HB2	5:P:142:ARG:NH2	2.03	0.74
3:N:1312:LEU:HB2	9:N:2666:HOH:O	1.85	0.74
3:N:192:ALA:O	3:N:195:VAL:HG23	1.88	0.74
2:C:54:ILE:HD11	2:C:356:ARG:HG2	1.69	0.73
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.70	0.73
2:M:396:ASP:HA	2:M:633:GLN:HE22	1.53	0.73
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.51	0.73
5:P:266:GLU:HA	5:P:269:ASN:HD22	1.53	0.73
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.68	0.73
5:P:142:ARG:HH11	5:P:142:ARG:HB3	1.54	0.73
2:C:493:ARG:HB3	9:C:9820:HOH:O	1.87	0.73
3:D:996:TRP:HA	3:D:999:THR:HG22	1.68	0.73
1:K:133:GLU:HG2	1:K:134:GLU:N	2.03	0.73
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.71	0.73
3:D:1047:LYS:HE3	3:D:1051:GLU:HB2	1.71	0.73
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.70	0.73
1:A:95:GLN:HA	1:A:146:ARG:NH1	2.03	0.73
2:C:670:GLN:O	2:C:672:VAL:HG12	1.88	0.73
3:D:152:LEU:HD23	3:D:152:LEU:H	1.50	0.73
3:D:838:ARG:HA	9:D:9946:HOH:O	1.89	0.73
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.54	0.73
1:K:226:SER:O	1:K:228:PRO:HD3	1.88	0.73
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.23	0.73
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.54	0.73
1:B:101:LEU:HB3	9:B:9759:HOH:O	1.88	0.73
3:N:877:PRO:O	3:N:880:ILE:HG22	1.88	0.73
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.71	0.73
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.71	0.73
3:D:98:PRO:HB3	9:D:9932:HOH:O	1.89	0.73
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.71	0.73
1:L:175:ARG:O	3:N:851:LEU:HD21	1.88	0.73
3:N:984:THR:HG22	3:N:987:GLU:H	1.54	0.73
1:K:67:THR:H	2:M:627:ARG:NH2	1.86	0.73
2:M:139:GLN:HE21	2:M:334:ARG:HH11	1.35	0.73
2:M:773:LEU:O	2:M:777:ILE:HG13	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1033:GLN:NE2	3:N:1036:ARG:HH11	1.86	0.73
3:N:1379:VAL:HA	3:N:1420:LEU:HB3	1.70	0.73
5:P:85:LEU:HD13	5:P:193:ARG:HH11	1.54	0.73
3:D:1076:GLY:O	3:D:1079:LYS:HG3	1.89	0.72
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.88	0.72
2:C:876:VAL:HG11	3:D:949:ILE:HG21	1.71	0.72
1:L:15:THR:HG21	9:L:6217:HOH:O	1.89	0.72
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.71	0.72
9:M:9588:HOH:O	3:N:1071:PHE:HZ	1.72	0.72
3:N:607:LEU:HA	3:N:613:ARG:HB2	1.69	0.72
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.71	0.72
3:D:6:ARG:HG3	3:D:7:LYS:HG3	1.69	0.72
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.70	0.72
2:M:626:ARG:NH1	2:M:637:LEU:HD12	2.04	0.72
2:M:650:ARG:H	2:M:650:ARG:HD2	1.52	0.72
1:A:54:THR:HG22	1:A:158:ILE:HG13	1.71	0.72
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.20	0.72
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.69	0.72
2:M:436:GLY:HA2	2:M:538:GLN:O	1.89	0.72
2:M:768:THR:HB	2:M:771:GLU:HB3	1.70	0.72
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.07	0.72
1:L:58:ILE:HB	1:L:61:VAL:HB	1.72	0.72
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.69	0.72
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.70	0.72
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.00	0.72
3:N:1156:LEU:HB3	9:N:2055:HOH:O	1.89	0.72
3:N:666:ILE:H	3:N:666:ILE:HD12	1.51	0.72
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.71	0.72
2:C:580:MET:HB3	2:C:584:GLU:CD	2.10	0.72
2:M:92:ALA:HB1	9:M:9636:HOH:O	1.89	0.72
3:N:570:GLU:HB2	5:P:214:GLN:HE21	1.55	0.72
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.70	0.72
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.71	0.72
2:M:938:LYS:HB3	2:M:939:ARG:HH21	1.53	0.72
2:C:567:GLN:HB2	2:C:997:LEU:HD22	1.71	0.72
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.70	0.72
1:A:97:VAL:HG23	9:A:9564:HOH:O	1.89	0.72
2:C:521:PRO:HB2	3:D:1055:VAL:HB	1.72	0.72
3:D:1191:PRO:HA	9:D:9616:HOH:O	1.90	0.72
3:D:1350:GLU:HG3	9:D:2523:HOH:O	1.90	0.72
3:D:961:LYS:HE2	3:D:962:GLN:HE22	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:129:ILE:HD13	2:M:134:ARG:HB2	1.71	0.72
2:M:721:ARG:HH21	2:M:783:ARG:HH21	1.37	0.72
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.90	0.72
9:M:9642:HOH:O	3:N:651:GLU:HG3	1.90	0.72
1:B:199:ILE:HD11	1:B:211:LEU:HD13	1.71	0.72
2:C:462:ASP:HB3	2:C:468:ARG:HD2	1.71	0.72
2:C:478:VAL:HA	2:C:506:ASN:O	1.90	0.72
5:P:248:ASN:HA	5:P:251:ILE:HD12	1.71	0.72
3:N:951:ILE:HG23	3:N:1062:ARG:HE	1.55	0.71
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.71	0.71
2:C:193:LEU:HB2	9:C:9631:HOH:O	1.90	0.71
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.69	0.71
2:C:96:ALA:HB2	9:C:9657:HOH:O	1.90	0.71
3:D:194:GLY:H	3:D:206:ARG:HA	1.53	0.71
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.72	0.71
2:C:145:GLY:H	2:C:163:ILE:HG23	1.56	0.71
2:C:274:ARG:HD2	2:C:285:LEU:HB3	1.72	0.71
2:M:16:PRO:HB3	2:M:460:ARG:HH22	1.55	0.71
3:N:1342:GLU:CD	3:N:1342:GLU:H	1.94	0.71
3:N:770:LEU:HD23	9:N:9909:HOH:O	1.90	0.71
5:P:97:GLU:HA	9:P:5302:HOH:O	1.89	0.71
2:C:557:ARG:CZ	2:C:879:ARG:HD3	2.20	0.71
3:D:1217:ILE:HD13	3:D:1480:PHE:HE2	1.55	0.71
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.73	0.71
3:D:420:VAL:HG23	9:D:2502:HOH:O	1.90	0.71
2:M:583:LEU:O	2:M:587:VAL:HG23	1.89	0.71
2:M:724:ARG:HG3	2:M:741:GLY:H	1.56	0.71
3:N:100:ALA:HA	9:N:9662:HOH:O	1.90	0.71
3:N:850:LEU:H	3:N:850:LEU:HD12	1.55	0.71
5:P:151:LEU:HD13	5:P:154:LYS:HB3	1.73	0.71
5:P:132:ARG:HE	5:P:184:ARG:HH12	1.38	0.71
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.72	0.71
5:F:120:THR:HB	9:F:9677:HOH:O	1.90	0.71
2:M:244:PRO:HD2	2:M:245:GLY:H	1.56	0.71
1:A:11:PHE:HB2	9:A:9807:HOH:O	1.90	0.71
2:C:39:ARG:HE	2:C:39:ARG:HA	1.55	0.71
2:C:1085:PHE:HD2	3:D:1468:LEU:HA	1.55	0.71
1:K:156:HIS:HD2	1:K:157:GLY:H	1.39	0.71
2:M:676:ILE:HG22	2:M:988:VAL:HG13	1.73	0.71
2:C:626:ARG:H	2:C:639:GLN:NE2	1.88	0.71
3:D:1349:VAL:HG11	9:D:9931:HOH:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:91:ASN:HA	9:A:9646:HOH:O	1.90	0.71
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.71	0.71
2:C:313:LEU:HA	2:C:321:GLU:HG3	1.72	0.71
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.72	0.71
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.71	0.70
4:E:26:ARG:HH12	4:E:30:LEU:HD13	1.55	0.70
2:M:650:ARG:HB3	9:M:2078:HOH:O	1.91	0.70
3:N:120:ALA:HB1	9:N:9675:HOH:O	1.91	0.70
3:N:808:THR:HB	3:N:809:PRO:HD3	1.73	0.70
2:C:108:ILE:HB	2:C:368:THR:OG1	1.90	0.70
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.73	0.70
3:D:667:ALA:HB2	3:D:676:MET:HE2	1.73	0.70
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.73	0.70
5:F:205:ARG:HD2	5:F:251:ILE:HG21	1.72	0.70
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.72	0.70
1:K:2:LEU:HD21	9:K:5231:HOH:O	1.90	0.70
3:N:117:ASP:HB2	3:N:495:ARG:NH2	2.05	0.70
5:P:395:GLU:O	5:P:399:GLN:HB2	1.91	0.70
2:C:505:GLY:HA3	9:C:9723:HOH:O	1.89	0.70
2:C:671:ASN:H	2:C:671:ASN:HD22	1.37	0.70
2:C:732:ALA:HA	2:C:735:ARG:CZ	2.21	0.70
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.73	0.70
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.73	0.70
2:M:348:LEU:HD22	9:M:2250:HOH:O	1.90	0.70
3:N:1292:VAL:HG12	9:N:9607:HOH:O	1.89	0.70
3:N:209:ARG:HH22	3:N:397:LYS:HG3	1.55	0.70
2:C:244:PRO:HD2	2:C:245:GLY:H	1.55	0.70
2:C:701:THR:HG22	2:C:832:LYS:HA	1.72	0.70
3:D:150:ARG:HH11	3:D:150:ARG:HG3	1.56	0.70
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.74	0.70
3:D:445:ARG:HB2	3:D:445:ARG:HH11	1.56	0.70
3:N:116:LEU:HD11	3:N:465:LEU:HG	1.73	0.70
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.74	0.70
9:M:9956:HOH:O	3:N:724:GLN:HB3	1.90	0.70
2:C:676:ILE:HG23	3:D:948:THR:HB	1.72	0.70
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.72	0.70
1:L:59:GLU:HG3	1:L:139:ASN:ND2	2.06	0.70
2:M:648:ARG:H	2:M:648:ARG:HE	1.40	0.70
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.72	0.70
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.73	0.70
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1342:GLU:H	3:D:1342:GLU:CD	1.94	0.70
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.22	0.70
3:D:478:LEU:HD21	3:D:500:ARG:NH2	2.05	0.70
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.57	0.70
1:A:127:LEU:HD12	1:A:128:HIS:N	2.06	0.70
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.73	0.70
4:E:29:GLN:HB2	4:E:33:HIS:NE2	2.06	0.70
5:F:244:ARG:HG2	9:F:9669:HOH:O	1.92	0.70
2:M:905:ILE:HD12	2:M:905:ILE:H	1.57	0.70
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.91	0.70
1:A:177:VAL:O	2:C:864:GLY:HA3	1.91	0.70
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.72	0.70
4:E:47:LYS:HA	9:E:9537:HOH:O	1.91	0.70
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.56	0.70
3:D:215:TYR:O	3:D:389:GLU:HB2	1.92	0.70
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.72	0.70
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.72	0.70
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.57	0.70
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.57	0.70
1:L:160:ASP:HB2	9:L:6438:HOH:O	1.92	0.70
1:L:78:ILE:HA	9:L:3720:HOH:O	1.90	0.70
2:M:1109:VAL:HG11	3:N:5:VAL:HG13	1.74	0.70
2:M:786:LYS:HA	9:M:9574:HOH:O	1.91	0.70
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.72	0.70
5:P:375:LEU:HB2	9:P:4033:HOH:O	1.91	0.70
2:C:66:LEU:HD13	2:C:372:LEU:HD23	1.73	0.69
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.74	0.69
1:K:101:LEU:HD22	1:K:102:LYS:N	2.07	0.69
2:M:721:ARG:HH22	2:M:785:VAL:HG21	1.57	0.69
2:M:987:ILE:HG12	3:N:948:THR:HG21	1.74	0.69
3:N:1045:MET:CG	3:N:1073:SER:HA	2.19	0.69
3:D:445:ARG:HB2	3:D:445:ARG:NH1	2.07	0.69
2:M:1007:ALA:HB2	3:N:648:MET:HG3	1.73	0.69
2:M:256:TYR:CE1	2:M:293:PHE:HB2	2.27	0.69
2:M:27:ARG:HA	9:M:9713:HOH:O	1.92	0.69
3:N:507:ASN:HB2	9:N:9681:HOH:O	1.90	0.69
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.74	0.69
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.20	0.69
3:D:436:GLU:HB2	3:D:445:ARG:HB3	1.74	0.69
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.74	0.69
3:N:761:ILE:HG21	9:O:3658:HOH:O	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.74	0.69
1:B:164:ALA:HA	9:B:9786:HOH:O	1.92	0.69
2:C:504:GLU:OE2	2:C:509:ALA:HB2	1.91	0.69
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.93	0.69
3:D:397:LYS:NZ	3:D:399:ARG:HH21	1.91	0.69
3:D:161:LEU:HD23	3:D:449:SER:HB3	1.73	0.69
1:K:34:VAL:HB	1:L:42:ARG:NH2	2.08	0.69
3:N:1115:THR:HG21	3:N:1151:ARG:HH21	1.57	0.69
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.55	0.69
2:C:405:ARG:HD2	2:C:442:GLU:OE1	1.93	0.69
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.74	0.69
3:D:1491:THR:O	3:D:1495:ILE:HD13	1.93	0.69
3:D:544:TYR:O	3:D:548:ILE:HG12	1.92	0.69
3:D:804:LEU:HB2	3:D:830:ALA:O	1.92	0.69
5:F:93:LEU:HG	5:F:190:ALA:CB	2.23	0.69
2:M:244:PRO:HD3	9:M:2128:HOH:O	1.93	0.69
2:M:432:ARG:HG2	9:N:9826:HOH:O	1.92	0.69
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.72	0.69
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.73	0.69
3:D:639:LEU:N	3:D:639:LEU:HD12	2.07	0.69
1:K:222:LEU:HD11	1:L:218:LEU:HD23	1.74	0.69
1:L:54:THR:HB	9:L:6404:HOH:O	1.92	0.69
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.74	0.69
3:N:699:VAL:H	3:N:756:GLN:HE22	1.41	0.69
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.75	0.69
3:D:519:VAL:HA	3:D:544:TYR:OH	1.93	0.69
1:L:54:THR:HA	9:L:4010:HOH:O	1.93	0.69
2:M:405:ARG:HH21	2:M:566:THR:HG21	1.57	0.69
1:A:135:GLY:HA2	9:A:9673:HOH:O	1.92	0.69
3:D:1307:LYS:HD3	3:D:1307:LYS:H	1.55	0.69
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.07	0.69
3:D:153:LEU:HD12	3:D:154:THR:N	2.07	0.69
3:D:192:ALA:O	3:D:195:VAL:HG23	1.93	0.69
3:D:586:ARG:HD3	9:D:9830:HOH:O	1.92	0.69
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.75	0.69
3:N:1135:ARG:HH22	3:N:1350:GLU:HG2	1.57	0.69
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.08	0.69
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.75	0.69
2:M:455:LEU:HD12	2:M:459:ALA:HB3	1.73	0.69
1:A:156:HIS:HD2	1:A:157:GLY:H	1.39	0.69
2:C:113:VAL:HG11	2:C:373:VAL:HB	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:671:ASN:ND2	2:C:671:ASN:H	1.91	0.69
2:C:724:ARG:HD2	2:C:740:GLU:HA	1.75	0.69
3:D:1209:LEU:HD21	4:E:16:LYS:HZ2	1.56	0.69
2:M:1090:LYS:HE3	3:N:88:TYR:O	1.93	0.69
2:M:630:ARG:HD3	2:M:705:ILE:HD12	1.75	0.69
3:N:138:LYS:HA	9:N:2186:HOH:O	1.92	0.69
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.58	0.69
2:C:1008:ARG:HD3	9:D:9977:HOH:O	1.93	0.69
3:D:1087:ARG:HG2	3:D:1234:THR:HA	1.74	0.69
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.75	0.69
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.73	0.69
2:M:186:VAL:HG23	2:M:187:ASN:H	1.57	0.69
3:N:559:ALA:HA	9:P:5830:HOH:O	1.92	0.69
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.74	0.68
1:K:34:VAL:HB	1:L:42:ARG:HH21	1.58	0.68
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.73	0.68
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.75	0.68
3:N:1465:ASN:HB3	9:N:9577:HOH:O	1.92	0.68
9:M:9737:HOH:O	5:P:331:ASP:HA	1.93	0.68
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.75	0.68
3:D:1194:CYS:HB3	3:D:1373:ARG:NH2	2.08	0.68
3:D:28:LYS:HB2	3:D:41:ARG:HD2	1.73	0.68
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.74	0.68
1:L:116:PRO:HB3	9:L:6809:HOH:O	1.91	0.68
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.58	0.68
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.75	0.68
2:M:313:LEU:HD23	2:M:314:THR:HG23	1.74	0.68
3:N:1115:THR:CG2	3:N:1151:ARG:HH21	2.06	0.68
2:M:772:ARG:HD2	5:P:373:LYS:HD2	1.75	0.68
2:C:1055:LEU:HD21	2:C:1079:PRO:HG3	1.73	0.68
2:C:755:LEU:HD21	2:C:792:VAL:HG22	1.76	0.68
3:D:663:GLU:HA	9:D:2859:HOH:O	1.92	0.68
3:D:880:ILE:HG12	9:D:9915:HOH:O	1.93	0.68
2:M:769:PRO:HG2	9:P:5537:HOH:O	1.94	0.68
3:N:1112:CYS:HB2	3:N:1195:GLN:NE2	2.08	0.68
2:C:1115:LEU:HD23	3:D:85:VAL:HG13	1.76	0.68
2:C:207:LEU:HD23	2:C:211:LEU:HD22	1.76	0.68
3:D:1462:LEU:HG	9:D:9709:HOH:O	1.94	0.68
2:M:948:GLU:HG2	2:M:953:VAL:HG23	1.75	0.68
2:C:151:ASP:HB2	2:C:157:ARG:O	1.94	0.68
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1350:GLU:O	3:D:1354:LYS:HG2	1.94	0.68
2:M:1049:LEU:HG	2:M:1053:LEU:HD11	1.76	0.68
2:M:759:THR:HB	2:M:785:VAL:HG21	1.75	0.68
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.09	0.68
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.09	0.68
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.08	0.68
3:D:796:ARG:NH1	3:D:861:GLN:HB2	2.03	0.68
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.74	0.68
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.75	0.68
3:N:1381:VAL:HB	3:N:1389:LEU:O	1.92	0.68
3:N:779:ALA:HB2	9:N:9921:HOH:O	1.93	0.68
5:P:304:VAL:HG23	9:P:4374:HOH:O	1.92	0.68
3:D:662:GLU:HB2	9:D:9835:HOH:O	1.93	0.68
2:M:1025:ALA:HA	9:M:2101:HOH:O	1.92	0.68
2:M:722:ILE:HG21	2:M:821:GLU:OE2	1.94	0.68
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.75	0.68
3:N:441:ARG:HA	9:N:2108:HOH:O	1.94	0.68
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.23	0.68
2:C:139:GLN:HB3	2:C:334:ARG:HD2	1.76	0.68
2:C:42:VAL:HG12	2:C:43:GLY:H	1.59	0.68
2:C:673:LEU:HD11	9:C:9804:HOH:O	1.92	0.68
2:C:678:PRO:O	3:D:943:THR:HA	1.93	0.68
2:C:94:LEU:HD11	9:C:9657:HOH:O	1.93	0.68
3:D:1465:ASN:HD21	3:D:1470:ARG:HH11	1.41	0.68
3:D:531:ASP:C	3:D:533:GLY:H	1.97	0.68
2:M:139:GLN:HG3	2:M:140:ILE:H	1.58	0.68
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.29	0.68
3:N:775:GLY:HA2	9:N:2387:HOH:O	1.94	0.68
5:P:247:ILE:HG22	5:P:251:ILE:HD11	1.76	0.68
2:C:200:LEU:HB2	9:C:9623:HOH:O	1.94	0.68
3:D:1407:LEU:HD22	9:D:9895:HOH:O	1.94	0.68
3:D:493:ARG:HG2	3:D:493:ARG:HH11	1.58	0.68
2:M:319:GLY:HA2	9:M:9629:HOH:O	1.93	0.68
2:M:478:VAL:HA	2:M:506:ASN:O	1.94	0.68
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.74	0.68
2:C:1005:MET:CE	3:D:648:MET:HB2	2.24	0.68
2:C:696:LYS:HB2	9:C:9985:HOH:O	1.93	0.68
5:F:191:ASN:HA	5:F:194:LEU:HD23	1.75	0.68
3:N:119:SER:CB	3:N:123:LEU:HB2	2.24	0.68
1:B:179:PHE:HB3	1:B:197:LEU:HD13	1.75	0.67
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:269:LEU:HD12	2:C:288:ARG:HD2	1.77	0.67
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.75	0.67
2:C:54:ILE:HB	9:C:9559:HOH:O	1.93	0.67
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.76	0.67
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.08	0.67
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.57	0.67
2:M:775:ARG:HD2	9:M:9624:HOH:O	1.93	0.67
2:C:114:PHE:HD1	2:C:114:PHE:H	1.40	0.67
3:D:1221:VAL:HB	9:D:9733:HOH:O	1.94	0.67
3:D:6:ARG:HH11	3:D:6:ARG:HB2	1.58	0.67
5:F:198:ILE:HD13	9:F:9669:HOH:O	1.94	0.67
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.75	0.67
2:M:724:ARG:HH21	2:M:734:LEU:HB3	1.58	0.67
3:N:101:HIS:ND1	3:N:103:TRP:HB2	2.08	0.67
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.95	0.67
2:C:393:GLN:HB2	2:C:406:HIS:CE1	2.29	0.67
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.24	0.67
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.75	0.67
1:K:58:ILE:HB	1:K:61:VAL:HB	1.77	0.67
2:M:129:ILE:HG12	2:M:386:PHE:HB3	1.77	0.67
2:M:943:VAL:HG23	2:M:985:GLY:H	1.58	0.67
3:N:119:SER:H	3:N:123:LEU:HD13	1.60	0.67
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.76	0.67
3:N:568:ARG:HB2	9:N:2150:HOH:O	1.93	0.67
4:O:30:LEU:O	4:O:35:PHE:HA	1.94	0.67
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.77	0.67
2:C:15:LEU:HD12	2:C:15:LEU:H	1.60	0.67
2:C:666:LEU:HD23	2:C:668:LEU:HD11	1.75	0.67
2:C:926:PHE:O	2:C:930:LYS:HG3	1.94	0.67
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.76	0.67
3:D:1490:LYS:HG2	9:D:2182:HOH:O	1.93	0.67
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.30	0.67
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.76	0.67
2:C:89:THR:HG21	2:C:383:ARG:HH21	1.58	0.67
3:D:1130:ARG:NH1	3:D:1130:ARG:HB2	2.08	0.67
3:D:539:ASP:OD2	5:F:318:GLU:HB2	1.95	0.67
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.10	0.67
3:N:570:GLU:HB2	5:P:214:GLN:NE2	2.10	0.67
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.76	0.67
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.25	0.67
2:C:80:GLN:HG2	2:C:90:TYR:CE2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:260:LEU:HG	2:M:261:ILE:HG13	1.76	0.67
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.30	0.67
3:N:658:LEU:HA	3:N:661:MET:HE3	1.76	0.67
2:M:1115:LEU:HB3	3:N:85:VAL:HG12	1.77	0.67
5:P:78:SER:HB2	5:P:82:ARG:CZ	2.25	0.67
2:C:25:SER:HB2	2:C:335:THR:HB	1.77	0.67
2:C:546:LEU:HD21	2:C:587:VAL:HG21	1.76	0.67
3:D:1112:CYS:HB2	3:D:1195:GLN:OE1	1.95	0.67
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.09	0.67
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.76	0.67
1:K:61:VAL:HA	9:K:3779:HOH:O	1.95	0.67
1:L:121:GLU:HG3	9:L:4026:HOH:O	1.94	0.67
3:N:122:GLU:HB3	9:N:9714:HOH:O	1.94	0.67
3:N:12:LEU:HD23	3:N:13:ALA:H	1.59	0.67
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.10	0.67
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.75	0.67
2:C:111:ASP:HA	9:C:9753:HOH:O	1.95	0.67
2:C:399:ASN:N	2:C:399:ASN:HD22	1.93	0.67
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.74	0.67
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.76	0.67
2:M:361:MET:HE2	9:M:2467:HOH:O	1.95	0.67
3:N:603:LEU:O	3:N:606:ILE:HB	1.94	0.67
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.75	0.67
1:K:89:PHE:HD1	1:K:120:VAL:HG23	1.60	0.67
2:M:36:PRO:HA	9:M:9625:HOH:O	1.94	0.67
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.77	0.67
2:M:89:THR:O	2:M:91:GLN:HG3	1.95	0.67
3:N:737:ASN:HA	9:N:9578:HOH:O	1.94	0.67
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.76	0.67
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.77	0.67
2:C:1085:PHE:CD2	3:D:1468:LEU:HA	2.30	0.67
2:C:956:GLY:HA2	9:C:9651:HOH:O	1.95	0.67
3:D:493:ARG:NE	3:D:1388:ARG:HB3	2.10	0.67
1:L:59:GLU:HG3	1:L:139:ASN:HD22	1.60	0.67
3:N:1296:SER:HB3	9:N:9620:HOH:O	1.95	0.67
2:C:174:LEU:HA	9:C:9698:HOH:O	1.94	0.66
3:D:1143:GLY:HA2	9:D:9658:HOH:O	1.95	0.66
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.10	0.66
3:D:213:VAL:HG21	9:D:2607:HOH:O	1.95	0.66
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.77	0.66
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.75	0.66
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.75	0.66
1:A:101:LEU:HG	1:A:114:PHE:HA	1.78	0.66
1:A:59:GLU:CD	1:A:139:ASN:HD21	1.98	0.66
2:C:54:ILE:HG21	9:C:2001:HOH:O	1.96	0.66
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.11	0.66
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.76	0.66
5:F:213:ILE:HG22	5:F:217:ASN:HD21	1.60	0.66
2:M:165:LEU:O	2:M:265:ARG:HB2	1.95	0.66
2:M:422:ARG:HB3	9:M:2451:HOH:O	1.95	0.66
9:L:5825:HOH:O	3:N:884:ARG:HG3	1.95	0.66
2:C:640:ARG:NH1	2:C:642:ARG:HH22	1.92	0.66
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.77	0.66
4:E:60:ALA:O	4:E:63:TRP:HB2	1.96	0.66
2:M:569:VAL:HG12	2:M:996:LYS:O	1.95	0.66
2:M:669:GLY:HA3	2:M:995:MET:HA	1.77	0.66
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.20	0.66
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.76	0.66
5:P:366:ALA:HB3	5:P:367:MET:HE2	1.77	0.66
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.29	0.66
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.31	0.66
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.21	0.66
3:D:210:ARG:CZ	3:D:398:ALA:HB3	2.25	0.66
3:D:400:VAL:HG21	3:D:441:ARG:NH1	2.11	0.66
2:M:350:ARG:HD3	2:M:353:ARG:NH2	2.10	0.66
2:M:636:ALA:HB2	2:M:703:ILE:HG22	1.75	0.66
3:N:1156:LEU:HD21	3:N:1177:ALA:HA	1.78	0.66
3:N:17:LYS:HD2	9:N:9847:HOH:O	1.94	0.66
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.77	0.66
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.76	0.66
2:C:4:LYS:HB2	9:C:2452:HOH:O	1.94	0.66
2:C:405:ARG:HH12	2:C:563:ASN:ND2	1.93	0.66
2:C:717:LEU:HD21	9:C:9888:HOH:O	1.95	0.66
3:D:921:ARG:HD3	9:D:2819:HOH:O	1.95	0.66
1:K:94:LEU:HD21	1:K:119:ASP:HB3	1.78	0.66
2:M:1009:SER:HB2	3:N:651:GLU:O	1.94	0.66
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.78	0.66
2:M:736:ASP:O	2:M:744:ARG:HG2	1.95	0.66
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.11	0.66
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.96	0.66
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.78	0.66
5:P:269:ASN:O	5:P:273:ARG:HG3	1.96	0.66
1:A:145:ASP:HB3	9:A:9589:HOH:O	1.96	0.66
1:A:36:LEU:O	1:A:39:PRO:HD2	1.95	0.66
1:B:215:VAL:HA	9:B:9636:HOH:O	1.95	0.66
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.76	0.66
2:C:71:TYR:H	2:C:71:TYR:HD2	1.43	0.66
3:D:551:ASN:O	3:D:555:LYS:HG3	1.94	0.66
1:K:161:ARG:NH1	1:K:161:ARG:HB2	2.11	0.66
2:M:350:ARG:HD3	2:M:353:ARG:HH22	1.60	0.66
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.78	0.66
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.78	0.66
2:C:236:ILE:HG13	9:C:9661:HOH:O	1.94	0.66
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.25	0.66
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.11	0.66
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.77	0.66
2:M:276:LYS:HD3	9:M:9595:HOH:O	1.95	0.66
2:M:890:LEU:HA	2:M:914:ILE:HD13	1.76	0.66
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.78	0.66
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.60	0.66
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.77	0.66
5:F:136:LEU:HD11	9:F:9637:HOH:O	1.95	0.66
2:M:1114:GLY:N	2:M:1115:LEU:HD12	2.06	0.66
5:P:222:ARG:HH12	5:P:246:ALA:HB2	1.60	0.66
5:P:323:ASP:HB3	5:P:325:LYS:HE2	1.77	0.66
2:C:1090:LYS:HE3	3:D:88:TYR:O	1.96	0.66
5:F:369:LEU:HD23	9:F:9551:HOH:O	1.95	0.66
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.78	0.66
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.77	0.66
2:M:1025:ALA:HB3	9:M:2395:HOH:O	1.96	0.66
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.77	0.66
2:M:44:ILE:HG22	9:M:9965:HOH:O	1.96	0.66
2:M:674:VAL:HG23	2:M:869:VAL:O	1.96	0.66
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.25	0.66
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.60	0.66
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.10	0.66
1:L:124:ASN:ND2	1:L:127:LEU:HD22	2.09	0.66
3:N:397:LYS:HE2	3:N:399:ARG:HE	1.61	0.66
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.31	0.65
2:C:92:ALA:HB1	9:C:9614:HOH:O	1.94	0.65
3:D:1243:THR:OG1	3:D:1253:THR:HB	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1252:ILE:H	3:D:1252:ILE:HD12	1.61	0.65
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.97	0.65
2:M:292:ARG:HB2	2:M:299:LYS:HE2	1.78	0.65
3:N:146:PRO:HG2	9:N:9732:HOH:O	1.95	0.65
3:N:629:SER:OG	3:N:726:ILE:HG13	1.96	0.65
2:C:948:GLU:HG3	2:C:955:PRO:HG3	1.79	0.65
3:D:1354:LYS:HD3	9:D:2563:HOH:O	1.95	0.65
3:D:397:LYS:HE2	3:D:399:ARG:HE	1.61	0.65
5:F:317:LEU:O	5:F:329:TYR:HB3	1.96	0.65
2:M:22:GLN:NE2	2:M:336:VAL:HG21	2.12	0.65
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.78	0.65
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.26	0.65
2:C:1015:LEU:HA	9:C:9582:HOH:O	1.97	0.65
2:C:166:PRO:HA	9:C:9900:HOH:O	1.95	0.65
3:D:172:PRO:HD2	3:D:389:GLU:O	1.96	0.65
5:F:198:ILE:HA	9:F:9906:HOH:O	1.96	0.65
5:F:401:GLU:O	5:F:405:LEU:HB2	1.97	0.65
1:K:36:LEU:O	1:K:39:PRO:HD2	1.97	0.65
1:L:62:LEU:HD12	9:L:3756:HOH:O	1.95	0.65
3:N:73:CYS:HB3	3:N:76:CYS:O	1.95	0.65
3:N:754:PHE:HZ	4:O:21:VAL:HG13	1.60	0.65
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.79	0.65
1:B:178:ALA:HA	9:B:9711:HOH:O	1.97	0.65
2:C:409:ARG:HD2	9:C:9854:HOH:O	1.96	0.65
2:C:328:LEU:HD22	2:C:433:THR:HG22	1.78	0.65
2:C:480:THR:HG22	2:C:482:GLU:H	1.61	0.65
2:C:534:VAL:H	2:C:538:GLN:HE22	1.42	0.65
2:C:651:LYS:HA	9:C:9597:HOH:O	1.97	0.65
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.77	0.65
3:D:810:GLU:O	3:D:813:LEU:HG	1.95	0.65
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.11	0.65
9:D:2501:HOH:O	5:F:315:VAL:HB	1.95	0.65
5:F:393:THR:HG22	5:F:394:ARG:H	1.61	0.65
5:F:92:PRO:HB2	9:F:9705:HOH:O	1.97	0.65
2:M:936:VAL:HA	9:M:2535:HOH:O	1.94	0.65
3:N:1267:ARG:HH11	3:N:1267:ARG:HB2	1.62	0.65
3:D:119:SER:OG	3:D:123:LEU:HD13	1.96	0.65
5:F:321:ILE:HB	5:F:327:SER:OG	1.97	0.65
5:F:395:GLU:O	5:F:399:GLN:HB2	1.96	0.65
2:M:410:ILE:HD11	2:M:455:LEU:HB3	1.77	0.65
3:N:681:ARG:HD3	9:N:2105:HOH:O	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1008:ARG:HE	2:C:1028:GLY:C	2.00	0.65
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.61	0.65
3:D:964:LEU:HD22	3:D:1058:ARG:HH11	1.60	0.65
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.78	0.65
5:F:260:ILE:HD11	5:F:310:ILE:HG22	1.76	0.65
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.78	0.65
2:M:397:GLU:HA	2:M:403:SER:HB2	1.79	0.65
2:M:462:ASP:HA	9:M:9945:HOH:O	1.97	0.65
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.79	0.65
3:D:141:ILE:HG21	3:D:161:LEU:HD21	1.79	0.65
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.24	0.65
2:M:16:PRO:HG2	2:M:460:ARG:HH12	1.61	0.65
3:N:804:LEU:HD11	9:N:2794:HOH:O	1.97	0.65
2:C:588:VAL:HB	9:C:9652:HOH:O	1.97	0.65
2:C:65:VAL:HG11	9:C:9671:HOH:O	1.97	0.65
3:N:799:LYS:HA	9:N:2865:HOH:O	1.97	0.65
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.76	0.65
3:D:520:LEU:HD23	3:D:540:LEU:HD22	1.77	0.65
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.77	0.65
3:N:1059:SER:OG	3:N:1065:LEU:HD22	1.97	0.65
3:N:1243:THR:OG1	3:N:1253:THR:HB	1.96	0.65
9:N:9710:HOH:O	5:P:222:ARG:HA	1.97	0.65
1:B:58:ILE:HB	1:B:61:VAL:HB	1.77	0.65
2:C:729:LEU:HD21	5:F:419:ARG:HH12	1.62	0.65
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.62	0.65
5:F:405:LEU:HD21	9:F:9615:HOH:O	1.97	0.65
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.79	0.65
2:M:605:LYS:CB	2:M:610:ARG:HH12	2.10	0.65
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.78	0.65
5:P:303:ARG:HB3	9:P:4374:HOH:O	1.96	0.65
1:A:198:ARG:HG3	9:A:9618:HOH:O	1.96	0.64
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.80	0.64
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.77	0.64
3:D:528:VAL:O	3:D:535:PHE:HA	1.97	0.64
5:F:274:THR:HA	9:F:9616:HOH:O	1.98	0.64
1:L:205:VAL:HG11	9:L:3729:HOH:O	1.96	0.64
1:L:95:GLN:HA	1:L:146:ARG:HD2	1.78	0.64
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.79	0.64
4:O:41:GLU:O	4:O:45:ARG:HG2	1.97	0.64
4:O:60:ALA:O	4:O:63:TRP:HB2	1.97	0.64
2:C:276:LYS:HB3	9:C:2071:HOH:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:664:GLY:HA2	9:C:9904:HOH:O	1.97	0.64
5:F:273:ARG:HA	5:F:276:ARG:HD2	1.79	0.64
1:L:95:GLN:H	1:L:95:GLN:HE21	1.44	0.64
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.27	0.64
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.80	0.64
3:N:14:SER:H	3:N:17:LYS:NZ	1.96	0.64
3:N:6:ARG:HH11	3:N:6:ARG:HB3	1.62	0.64
3:N:628:ARG:HD3	3:N:744:GLN:NE2	2.11	0.64
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.22	0.64
2:C:162:ILE:O	2:C:164:PRO:HD3	1.97	0.64
2:C:1085:PHE:CE2	3:D:1468:LEU:HG	2.32	0.64
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.79	0.64
3:N:715:ALA:O	3:N:764:LEU:HD12	1.96	0.64
1:A:58:ILE:HG22	9:A:9790:HOH:O	1.96	0.64
2:C:690:ILE:HG23	2:C:852:ILE:HG23	1.80	0.64
3:D:704:ARG:HE	3:D:705:ALA:H	1.45	0.64
2:C:983:ILE:HG23	3:D:944:THR:O	1.98	0.64
5:F:111:GLU:O	5:F:115:LYS:HG2	1.96	0.64
2:M:1016:ILE:HG12	9:M:9737:HOH:O	1.96	0.64
2:M:758:ARG:HB3	2:M:788:THR:O	1.97	0.64
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.79	0.64
3:N:422:ALA:H	3:N:427:VAL:CG1	2.10	0.64
3:N:428:LYS:HE3	3:N:434:ARG:NH1	2.13	0.64
3:N:810:GLU:O	3:N:813:LEU:HG	1.98	0.64
1:A:156:HIS:CD2	1:A:157:GLY:H	2.14	0.64
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.78	0.64
3:D:119:SER:H	3:D:123:LEU:HD22	1.62	0.64
3:D:210:ARG:HH11	3:D:210:ARG:HB3	1.62	0.64
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.80	0.64
2:M:739:GLU:HB3	9:M:9693:HOH:O	1.97	0.64
3:N:106:LYS:HD2	9:N:9666:HOH:O	1.97	0.64
3:N:119:SER:HB2	3:N:123:LEU:N	2.12	0.64
3:N:1314:LYS:HE2	3:N:1317:ASP:OD2	1.97	0.64
3:N:564:GLU:HA	3:N:567:ILE:HD12	1.78	0.64
3:N:898:GLU:CB	3:N:921:ARG:HH22	2.07	0.64
1:B:140:MET:HB2	9:B:9655:HOH:O	1.96	0.64
3:D:911:LEU:O	3:D:915:VAL:HG23	1.98	0.64
3:D:952:ASP:HA	3:D:1062:ARG:HH21	1.63	0.64
1:K:67:THR:H	2:M:627:ARG:HH21	1.44	0.64
2:M:276:LYS:HB3	9:M:9589:HOH:O	1.96	0.64
2:M:697:ARG:HD3	9:M:9861:HOH:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1079:LYS:HG3	9:N:2729:HOH:O	1.98	0.64
3:N:770:LEU:HD12	3:N:1210:SER:O	1.97	0.64
1:B:101:LEU:HG	1:B:114:PHE:HA	1.80	0.64
2:C:299:LYS:HB2	9:C:2062:HOH:O	1.98	0.64
3:D:423:ASP:HB2	5:F:178:ARG:HD2	1.78	0.64
4:E:54:LEU:O	4:E:54:LEU:HD23	1.98	0.64
1:L:123:MET:C	1:L:125:PRO:HD3	2.18	0.64
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.78	0.64
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.78	0.64
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.62	0.64
2:C:244:PRO:HG2	2:C:246:ASP:OD2	1.98	0.64
2:C:627:ARG:HG2	9:C:9654:HOH:O	1.96	0.64
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.28	0.64
3:D:1304:LYS:HA	9:D:2309:HOH:O	1.97	0.64
3:D:529:GLN:HE22	3:D:533:GLY:HA2	1.62	0.64
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.77	0.64
5:P:336:GLU:HG2	9:P:4181:HOH:O	1.97	0.64
1:B:27:PRO:O	1:B:28:LEU:HD23	1.98	0.64
2:C:21:ILE:HD12	2:C:21:ILE:H	1.61	0.64
3:D:1410:GLU:HA	9:D:9586:HOH:O	1.96	0.64
3:D:961:LYS:HE2	3:D:962:GLN:NE2	2.13	0.64
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.80	0.64
2:M:726:ILE:HG22	9:M:9724:HOH:O	1.97	0.64
3:N:1061:PHE:HA	9:N:9777:HOH:O	1.96	0.64
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.98	0.64
3:N:502:PHE:HZ	3:N:512:MET:HE2	1.62	0.64
2:C:367:LEU:HD22	2:C:371:LYS:HG2	1.80	0.64
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.80	0.64
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.79	0.64
3:D:543:LEU:HD22	3:D:580:ALA:HB1	1.80	0.64
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.13	0.64
1:K:123:MET:C	1:K:125:PRO:HD3	2.17	0.64
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.79	0.64
3:N:535:PHE:O	5:P:315:VAL:N	2.30	0.64
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.80	0.64
1:B:47:SER:O	1:B:49:PRO:N	2.31	0.63
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.79	0.63
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.79	0.63
3:D:178:LEU:HD21	9:D:9605:HOH:O	1.98	0.63
3:D:393:ILE:H	3:D:393:ILE:HD12	1.62	0.63
3:D:535:PHE:HB2	9:D:9783:HOH:O	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:608:SER:HB3	3:D:1443:THR:OG1	1.99	0.63
1:L:110:LYS:HG3	9:L:5854:HOH:O	1.98	0.63
1:L:137:ARG:NH1	1:L:137:ARG:HB3	2.13	0.63
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.79	0.63
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.63	0.63
3:N:1389:LEU:HD12	3:N:1390:LEU:H	1.63	0.63
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.80	0.63
3:N:834:THR:HB	3:N:838:ARG:HB3	1.81	0.63
2:C:732:ALA:HB3	9:C:9819:HOH:O	1.98	0.63
2:C:971:LYS:HA	2:C:988:VAL:HA	1.80	0.63
3:D:209:ARG:HD2	3:D:210:ARG:HD3	1.81	0.63
3:D:369:ALA:HB3	9:D:9708:HOH:O	1.98	0.63
5:F:321:ILE:HD11	5:F:329:TYR:HB2	1.80	0.63
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.79	0.63
3:N:1252:ILE:HG13	9:N:9664:HOH:O	1.96	0.63
2:M:1090:LYS:HZ2	3:N:90:MET:HG2	1.63	0.63
5:P:122:LEU:HA	9:P:4507:HOH:O	1.98	0.63
1:B:132:LEU:HD21	1:B:136:GLY:O	1.98	0.63
2:C:1008:ARG:HE	2:C:1028:GLY:CA	2.11	0.63
2:C:71:TYR:HB2	9:C:9570:HOH:O	1.97	0.63
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.79	0.63
2:M:180:GLY:HA2	9:M:2207:HOH:O	1.97	0.63
2:M:97:ARG:HG3	9:M:2023:HOH:O	1.98	0.63
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.81	0.63
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.78	0.63
2:C:32:ALA:HB2	2:C:73:LEU:HD21	1.81	0.63
2:C:610:ARG:HD3	9:C:9851:HOH:O	1.99	0.63
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.79	0.63
2:C:606:VAL:HG22	2:C:645:VAL:HG13	1.79	0.63
3:D:1082:ALA:O	3:D:1086:LEU:HD13	1.98	0.63
3:D:672:ALA:HB2	9:F:9781:HOH:O	1.97	0.63
3:D:85:VAL:O	3:D:89:ARG:HD2	1.98	0.63
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.64	0.63
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.79	0.63
2:M:157:ARG:HA	2:M:157:ARG:CZ	2.27	0.63
2:M:557:ARG:CZ	2:M:879:ARG:HD3	2.27	0.63
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.79	0.63
2:C:267:TYR:H	2:C:267:TYR:HD2	1.47	0.63
3:D:1141:GLU:HG2	3:D:1168:MET:CE	2.29	0.63
3:D:787:LEU:HD21	3:D:947:ILE:HD11	1.81	0.63
3:D:850:LEU:HD12	3:D:850:LEU:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1090:LYS:HE2	2:M:1112:PHE:CE1	2.34	0.63
2:M:191:PHE:HZ	2:M:196:LEU:HB2	1.63	0.63
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.80	0.63
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.33	0.63
3:N:1134:LEU:HB3	9:N:2295:HOH:O	1.98	0.63
3:N:206:ARG:O	3:N:206:ARG:HD3	1.98	0.63
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.81	0.63
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.81	0.63
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.79	0.63
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.81	0.63
2:C:1020:PRO:O	3:D:622:ARG:HD2	1.98	0.63
2:M:145:GLY:HA3	9:M:9589:HOH:O	1.99	0.63
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.81	0.63
2:M:585:GLU:HG2	2:M:589:ARG:HH12	1.63	0.63
2:M:610:ARG:HB3	9:M:2240:HOH:O	1.97	0.63
2:M:739:GLU:HG3	9:M:9586:HOH:O	1.98	0.63
2:M:944:LEU:HD11	2:M:963:LEU:HD21	1.79	0.63
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.33	0.63
3:N:1475:GLY:O	3:N:1478:SER:HB3	1.97	0.63
3:N:723:GLY:HA3	9:N:9617:HOH:O	1.99	0.63
5:P:167:PRO:HB2	5:P:169:GLU:OE2	1.99	0.63
5:P:185:GLN:HA	5:P:188:ILE:HD12	1.81	0.63
1:A:173:PRO:HA	1:A:202:ASP:OD2	1.98	0.63
2:C:437:ARG:HA	2:C:467:ILE:HG21	1.79	0.63
2:C:726:ILE:HG22	9:C:2208:HOH:O	1.98	0.63
2:C:722:ILE:HG23	2:C:805:ARG:NH2	2.14	0.63
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.28	0.63
2:C:993:PHE:HE1	2:C:995:MET:HG2	1.63	0.63
3:D:1192:LEU:HD22	3:D:1345:GLU:HG2	1.81	0.63
3:D:1258:ARG:CZ	3:D:1262:LEU:HD11	2.28	0.63
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.13	0.63
3:D:1274:ILE:HD11	3:D:1334:GLN:HE21	1.64	0.63
3:D:1379:VAL:HA	3:D:1420:LEU:HB2	1.78	0.63
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.34	0.63
3:D:546:ARG:NH2	3:D:550:ARG:HH22	1.97	0.63
3:D:32:ILE:O	5:F:258:ILE:HG23	1.98	0.63
2:M:728:HIS:CE1	2:M:775:ARG:HH12	2.17	0.63
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.34	0.63
3:N:982:PHE:HB3	9:N:9805:HOH:O	1.99	0.63
1:B:59:GLU:HG3	1:B:139:ASN:ND2	2.13	0.63
3:D:1087:ARG:HB3	3:D:1234:THR:HG23	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:98:THR:HG22	9:K:3875:HOH:O	1.98	0.63
2:M:944:LEU:HD21	2:M:963:LEU:HD22	1.79	0.63
3:N:961:LYS:HG2	9:N:9802:HOH:O	1.98	0.63
1:A:107:LYS:HD3	9:A:9680:HOH:O	1.99	0.63
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.27	0.63
1:L:206:THR:HG22	1:L:209:GLU:H	1.64	0.63
2:M:1090:LYS:HZ2	3:N:90:MET:CG	2.11	0.63
3:N:972:LEU:O	3:N:976:GLN:HG3	1.99	0.63
1:B:14:ARG:HG2	9:B:9546:HOH:O	1.99	0.62
2:C:673:LEU:HD22	2:C:867:VAL:HA	1.81	0.62
3:D:704:ARG:NE	3:D:705:ALA:H	1.97	0.62
9:D:2389:HOH:O	5:F:134:LYS:HD2	1.99	0.62
5:F:279:GLN:HA	9:F:9783:HOH:O	1.97	0.62
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.80	0.62
3:N:767:HIS:NE2	4:O:6:ILE:HD13	2.14	0.62
1:A:42:ARG:HH21	1:B:34:VAL:HB	1.64	0.62
2:C:595:LEU:O	2:C:655:LEU:HG	1.99	0.62
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.34	0.62
2:M:328:LEU:HD13	2:M:433:THR:HB	1.80	0.62
3:N:610:LYS:HG2	3:N:611:GLN:HG2	1.80	0.62
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.81	0.62
5:P:364:ARG:HD3	9:P:3916:HOH:O	1.98	0.62
5:P:404:ALA:HB3	9:P:4808:HOH:O	1.99	0.62
3:D:537:THR:C	5:F:317:LEU:HB2	2.19	0.62
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.33	0.62
4:E:58:PRO:HA	9:E:9569:HOH:O	1.99	0.62
2:M:799:ILE:HD13	2:M:799:ILE:N	2.15	0.62
3:N:1314:LYS:HD3	3:N:1314:LYS:H	1.64	0.62
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.80	0.62
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.81	0.62
2:C:208:ALA:O	2:C:218:VAL:HG21	1.99	0.62
3:D:1261:GLU:OE1	3:D:1268:PRO:HA	1.99	0.62
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.81	0.62
3:D:65:ARG:HB3	9:D:2111:HOH:O	1.99	0.62
3:D:84:ILE:O	3:D:87:ARG:HG3	2.00	0.62
2:M:771:GLU:O	2:M:775:ARG:HG2	1.98	0.62
2:M:983:ILE:HG21	2:M:987:ILE:HD11	1.81	0.62
3:N:996:TRP:NE1	3:N:1056:PRO:HG3	2.13	0.62
3:N:1175:ILE:O	3:N:1179:GLU:HG3	1.99	0.62
3:N:441:ARG:O	3:N:443:VAL:HG23	1.99	0.62
3:N:661:MET:HE3	3:N:673:ALA:HB1	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:L:5620:HOH:O	3:N:813:LEU:HD11	1.99	0.62
5:P:128:ARG:HG3	9:P:5446:HOH:O	1.99	0.62
5:P:367:MET:HG3	9:P:6021:HOH:O	1.98	0.62
1:A:20:TYR:HD2	1:A:21:GLY:H	1.48	0.62
1:B:158:ILE:HD13	9:B:9554:HOH:O	1.99	0.62
1:B:214:ALA:HA	1:B:217:ILE:HD12	1.80	0.62
2:C:129:ILE:HG12	2:C:386:PHE:HB3	1.82	0.62
2:C:697:ARG:HG2	9:C:9985:HOH:O	1.99	0.62
3:D:422:ALA:H	3:D:427:VAL:CG1	2.12	0.62
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.29	0.62
3:D:864:VAL:HG23	3:D:877:PRO:HD3	1.82	0.62
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.80	0.62
2:M:709:GLU:HG3	2:M:824:ARG:HG3	1.80	0.62
2:M:876:VAL:HA	9:M:9833:HOH:O	1.97	0.62
3:N:112:ILE:HD13	3:N:461:ILE:HG21	1.82	0.62
3:N:573:MET:SD	5:P:210:LEU:HD13	2.40	0.62
1:A:110:LYS:HB2	1:A:112:ARG:HD3	1.80	0.62
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.65	0.62
2:C:884:GLN:HG3	2:C:885:ILE:N	2.13	0.62
3:D:1126:ASP:HB2	9:D:2250:HOH:O	2.00	0.62
3:D:211:VAL:HG22	3:D:393:ILE:HG23	1.81	0.62
3:D:477:LEU:HD23	9:D:9637:HOH:O	1.99	0.62
3:D:560:GLN:HG3	5:F:221:ILE:HG21	1.81	0.62
5:F:255:ALA:HB3	9:F:9577:HOH:O	1.98	0.62
5:F:336:GLU:HG2	5:F:337:HIS:HD2	1.64	0.62
1:L:226:SER:O	1:L:228:PRO:HD3	1.99	0.62
2:M:139:GLN:NE2	2:M:418:LEU:HD13	2.15	0.62
2:M:913:GLU:HG3	9:M:2025:HOH:O	2.00	0.62
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.65	0.62
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.80	0.62
3:N:928:ALA:CA	3:N:931:LEU:HD12	2.25	0.62
2:C:369:PRO:HG2	2:C:370:ALA:H	1.65	0.62
2:C:49:ARG:NH1	2:C:49:ARG:HB2	2.13	0.62
3:D:1266:ARG:O	3:D:1268:PRO:HD3	2.00	0.62
3:D:401:TYR:CE2	3:D:415:VAL:HG13	2.35	0.62
3:D:637:LEU:HD12	3:D:641:GLN:OE1	1.99	0.62
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.12	0.62
4:E:39:VAL:HB	9:E:9616:HOH:O	1.98	0.62
5:F:268:ILE:HG22	9:F:9636:HOH:O	1.99	0.62
5:F:352:GLU:O	5:F:356:LYS:HG3	1.99	0.62
5:F:406:ARG:HG2	9:F:9822:HOH:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:572:ARG:NH2	5:F:83:GLN:HE21	1.92	0.62
1:K:102:LYS:HG2	9:K:3628:HOH:O	1.98	0.62
1:L:110:LYS:HB2	1:L:110:LYS:HZ2	1.64	0.62
2:M:144:PRO:HA	2:M:163:ILE:HG12	1.81	0.62
3:N:776:GLU:OE1	3:N:912:LYS:HD3	1.99	0.62
4:O:31:LEU:HD23	4:O:35:PHE:CE1	2.35	0.62
5:P:132:ARG:HG3	9:P:4300:HOH:O	1.99	0.62
5:P:416:ARG:CZ	5:P:419:ARG:HB2	2.29	0.62
3:D:808:THR:HB	3:D:809:PRO:HD3	1.82	0.62
3:D:89:ARG:HA	9:D:9588:HOH:O	1.99	0.62
5:F:225:GLU:HG3	5:F:226:LYS:HG3	1.81	0.62
2:M:432:ARG:HD2	2:M:519:GLY:HA3	1.80	0.62
2:M:698:ASP:HA	9:M:9660:HOH:O	1.99	0.62
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.82	0.62
3:N:45:PHE:HD1	3:N:86:ARG:HH22	1.48	0.62
2:C:420:ARG:HD2	2:C:420:ARG:H	1.65	0.62
2:C:511:GLU:O	2:C:526:PRO:HD3	1.99	0.62
2:C:627:ARG:HG3	2:C:628:PHE:H	1.65	0.62
2:C:630:ARG:HH22	2:C:707:ARG:HB2	1.65	0.62
3:D:1217:ILE:HD13	3:D:1480:PHE:CE2	2.34	0.62
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.65	0.62
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.63	0.62
5:F:163:LEU:HD22	5:F:174:LEU:HG	1.81	0.62
5:F:215:GLU:HG2	9:F:9685:HOH:O	1.99	0.62
1:L:150:TYR:CE2	3:N:857:ILE:HG13	2.35	0.62
2:M:611:ILE:HD11	2:M:641:PRO:HG3	1.82	0.62
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.28	0.62
3:N:824:ASN:HB2	9:N:9584:HOH:O	1.99	0.62
5:P:132:ARG:NE	5:P:184:ARG:HH12	1.98	0.62
5:P:351:SER:O	5:P:355:GLU:HB2	2.00	0.62
2:C:254:VAL:HG13	2:C:258:TYR:HE1	1.65	0.62
2:C:773:LEU:HB2	5:F:373:LYS:CB	2.26	0.62
2:C:798:GLY:H	2:C:827:VAL:HG11	1.65	0.62
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.81	0.62
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.00	0.62
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.81	0.62
2:M:1092:LEU:HD22	2:M:1099:VAL:HG22	1.81	0.62
2:M:455:LEU:CD1	2:M:459:ALA:HB3	2.30	0.62
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.81	0.62
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.35	0.62
1:B:223:THR:HG21	9:B:9702:HOH:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1018:GLN:HA	9:C:2163:HOH:O	2.00	0.61
2:C:397:GLU:HA	2:C:403:SER:HB3	1.81	0.61
2:M:207:LEU:HD13	2:M:221:LEU:HD13	1.82	0.61
2:M:769:PRO:HD2	9:M:9955:HOH:O	1.99	0.61
3:N:1485:GLN:HE21	4:O:80:VAL:N	1.94	0.61
3:N:14:SER:H	3:N:17:LYS:HZ2	1.48	0.61
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.15	0.61
3:N:863:VAL:HG23	9:N:9576:HOH:O	2.00	0.61
3:N:907:GLU:HG2	3:N:908:LYS:N	2.14	0.61
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.82	0.61
5:P:358:LEU:HD21	5:P:370:LYS:NZ	2.15	0.61
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.35	0.61
1:B:39:PRO:O	1:B:43:ILE:HG12	1.99	0.61
2:C:198:ARG:NH1	2:C:231:PRO:HG3	2.14	0.61
2:C:290:LEU:HA	9:C:9607:HOH:O	2.00	0.61
2:C:798:GLY:HA2	9:C:9552:HOH:O	2.00	0.61
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.82	0.61
3:D:805:GLU:HA	9:D:2416:HOH:O	1.99	0.61
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.30	0.61
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.82	0.61
3:D:908:LYS:HG2	9:D:2314:HOH:O	1.99	0.61
5:F:315:VAL:HG11	9:F:9826:HOH:O	1.99	0.61
2:M:349:ALA:HB3	9:M:2321:HOH:O	1.99	0.61
3:N:494:LYS:HA	3:N:497:GLU:OE1	2.00	0.61
3:D:542:ASP:O	3:D:546:ARG:HG2	2.00	0.61
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.35	0.61
5:F:214:GLN:HA	5:F:217:ASN:HD22	1.66	0.61
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.30	0.61
2:M:671:ASN:HD21	2:M:993:PHE:HD2	1.48	0.61
2:M:755:LEU:HD11	2:M:792:VAL:HG22	1.82	0.61
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.82	0.61
3:N:15:PRO:HA	3:N:18:ILE:HG12	1.82	0.61
1:A:28:LEU:HD23	9:A:9575:HOH:O	1.99	0.61
2:C:715:THR:HG22	2:C:717:LEU:HG	1.83	0.61
3:D:1334:GLN:HA	9:D:2080:HOH:O	1.99	0.61
3:D:1495:ILE:HG13	9:E:9600:HOH:O	2.01	0.61
3:D:964:LEU:HD22	3:D:1058:ARG:NH1	2.15	0.61
3:N:1105:ILE:HD11	3:N:1374:GLN:NE2	2.14	0.61
3:N:209:ARG:NH1	3:N:397:LYS:HB2	2.16	0.61
3:N:400:VAL:HG11	3:N:441:ARG:NH1	2.15	0.61
2:C:189:ARG:HG2	9:C:2128:HOH:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.24	0.61
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.83	0.61
2:C:1103:ASP:OD1	3:D:3:LYS:HG3	1.99	0.61
3:D:963:TYR:CD2	3:D:1002:LYS:HB3	2.35	0.61
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.82	0.61
3:N:513:ILE:HG23	9:N:9680:HOH:O	2.00	0.61
1:B:36:LEU:O	1:B:39:PRO:HD2	2.00	0.61
1:B:50:GLY:HA2	9:B:9692:HOH:O	1.99	0.61
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.81	0.61
3:D:728:LEU:HD12	9:D:9655:HOH:O	1.99	0.61
4:E:61:GLU:O	4:E:65:MET:HG3	2.00	0.61
5:F:335:ASP:OD1	5:F:338:LEU:HB2	2.00	0.61
1:K:58:ILE:HD12	1:K:138:LEU:HD11	1.81	0.61
1:K:62:LEU:H	1:K:62:LEU:HD12	1.66	0.61
2:M:1086:ARG:HB3	2:M:1112:PHE:HE2	1.63	0.61
2:M:160:ALA:HB2	2:M:310:LEU:HD13	1.81	0.61
2:M:958:THR:HG23	2:M:961:GLU:HG2	1.82	0.61
3:N:153:LEU:HD11	3:N:158:TYR:N	2.15	0.61
3:N:178:LEU:HG	3:N:200:ASP:H	1.64	0.61
3:N:699:VAL:CG1	3:N:717:GLN:HE21	2.14	0.61
3:N:950:GLY:H	3:N:953:ASP:HB2	1.64	0.61
2:C:132:ALA:HA	9:C:2298:HOH:O	2.01	0.61
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.01	0.61
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.82	0.61
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.29	0.61
3:D:1063:GLU:HB3	9:D:2628:HOH:O	2.00	0.61
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.81	0.61
3:D:1380:GLU:HB2	3:D:1420:LEU:HD23	1.82	0.61
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.65	0.61
3:N:1465:ASN:HD21	3:N:1470:ARG:HD3	1.64	0.61
3:N:396:VAL:HG22	9:N:9723:HOH:O	1.99	0.61
3:N:490:ALA:HA	9:N:9651:HOH:O	2.01	0.61
3:N:551:ASN:O	3:N:555:LYS:HG3	2.01	0.61
4:O:51:LEU:HD12	4:O:52:GLU:H	1.66	0.61
2:C:742:VAL:HG21	9:C:9745:HOH:O	2.00	0.61
2:C:758:ARG:HB3	2:C:788:THR:O	2.00	0.61
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	2.00	0.61
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.82	0.61
5:F:278:LEU:O	5:F:282:LEU:HG	2.01	0.61
2:M:370:ALA:HB1	9:P:6741:HOH:O	2.00	0.61
2:M:565:GLN:HA	2:M:995:MET:HE1	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1004:THR:HG21	9:N:2721:HOH:O	2.00	0.61
5:P:133:ALA:CB	5:P:142:ARG:HH21	2.12	0.61
5:P:151:LEU:HB2	5:P:155:THR:OG1	2.00	0.61
5:P:403:LYS:NZ	5:P:403:LYS:HA	2.15	0.61
1:B:68:ILE:HD12	1:B:71:VAL:HG21	1.82	0.61
2:C:199:VAL:HG22	2:C:235:LEU:HG	1.83	0.61
2:C:332:ARG:HB2	2:C:466:PHE:HE1	1.66	0.61
2:C:572:ILE:HD13	9:C:9934:HOH:O	2.00	0.61
2:C:83:CYS:HA	2:C:88:LEU:HD23	1.82	0.61
2:C:861:LEU:HD23	2:C:863:ASP:H	1.66	0.61
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.36	0.61
3:D:851:LEU:HB2	9:D:2266:HOH:O	2.01	0.61
4:E:48:MET:CB	4:E:54:LEU:HB2	2.30	0.61
3:N:1150:ALA:HA	9:N:2289:HOH:O	2.01	0.61
3:N:1259:VAL:HG22	3:N:1355:VAL:HG21	1.83	0.61
3:N:374:GLU:HA	9:N:9796:HOH:O	2.01	0.61
3:N:474:GLU:O	3:N:478:LEU:HG	1.99	0.61
2:M:873:PRO:HB3	3:N:949:ILE:HD13	1.81	0.61
5:P:363:GLU:HA	5:P:367:MET:HG2	1.81	0.61
2:C:110:GLU:HB2	2:C:368:THR:HB	1.82	0.61
2:C:816:LYS:HE2	2:C:819:VAL:HG21	1.83	0.61
3:D:1084:THR:HG23	9:D:9917:HOH:O	2.00	0.61
4:E:26:ARG:HA	4:E:29:GLN:OE1	2.00	0.61
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.82	0.61
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.83	0.61
5:F:274:THR:O	5:F:278:LEU:HG	2.01	0.61
1:K:181:VAL:HG11	9:K:4850:HOH:O	2.01	0.61
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.82	0.61
2:M:264:PRO:HD2	9:M:9627:HOH:O	2.00	0.61
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.00	0.61
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.83	0.61
3:N:807:ALA:HB3	9:N:9993:HOH:O	2.00	0.61
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.30	0.61
3:N:984:THR:H	3:N:987:GLU:CD	2.03	0.61
3:D:1066:THR:CG2	3:D:1069:GLU:HB2	2.29	0.60
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	1.83	0.60
3:D:1271:LYS:HG2	9:D:9620:HOH:O	2.00	0.60
3:D:961:LYS:HG2	3:D:962:GLN:OE1	2.01	0.60
5:F:393:THR:HG21	9:F:9713:HOH:O	2.01	0.60
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.83	0.60
1:K:85:LEU:HD12	1:K:124:ASN:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.31	0.60
2:M:627:ARG:HA	9:M:9736:HOH:O	2.01	0.60
2:C:393:GLN:HB2	2:C:406:HIS:HE1	1.66	0.60
3:D:139:GLY:O	3:D:147:VAL:HB	2.01	0.60
3:D:818:ARG:HB2	9:D:2824:HOH:O	2.00	0.60
2:M:396:ASP:HB2	2:M:406:HIS:CD2	2.36	0.60
2:M:428:ARG:HG2	2:M:451:LEU:HG	1.83	0.60
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.65	0.60
3:N:1159:ARG:HD3	9:N:2291:HOH:O	2.01	0.60
3:N:148:GLU:HA	9:N:2003:HOH:O	2.00	0.60
1:A:19:GLU:HB2	9:A:9772:HOH:O	2.01	0.60
1:B:152:PRO:HG2	9:B:9720:HOH:O	2.01	0.60
1:B:2:LEU:HD12	1:B:3:ASP:N	2.16	0.60
2:C:610:ARG:HB2	9:C:9615:HOH:O	2.01	0.60
2:C:798:GLY:H	2:C:827:VAL:CG1	2.14	0.60
3:D:546:ARG:O	3:D:550:ARG:HG2	2.00	0.60
4:E:25:LYS:HA	4:E:28:GLN:HE21	1.66	0.60
5:F:248:ASN:HA	5:F:251:ILE:HD12	1.83	0.60
1:L:143:ARG:HD2	1:L:160:ASP:OD1	2.00	0.60
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.19	0.60
2:M:159:ILE:HD11	9:M:9954:HOH:O	2.01	0.60
2:M:162:ILE:O	2:M:164:PRO:HD3	2.01	0.60
2:M:513:VAL:HB	9:M:2021:HOH:O	1.99	0.60
3:N:488:ARG:HB3	3:N:488:ARG:NH1	2.17	0.60
3:N:730:PRO:HA	3:N:733:CYS:SG	2.42	0.60
5:P:87:GLU:O	5:P:91:VAL:HG23	2.00	0.60
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.83	0.60
2:C:1056:LYS:HE3	3:D:751:LEU:HD11	1.83	0.60
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.37	0.60
3:D:1141:GLU:HG2	3:D:1168:MET:HE2	1.82	0.60
3:D:156:GLU:CD	3:D:156:GLU:H	2.03	0.60
1:K:53:VAL:HG13	1:K:142:VAL:HG23	1.84	0.60
2:M:1002:GLU:HG2	9:N:9803:HOH:O	2.01	0.60
2:M:39:ARG:NE	2:M:39:ARG:HA	2.17	0.60
2:M:464:LEU:HG	9:M:9933:HOH:O	2.02	0.60
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.83	0.60
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.83	0.60
2:M:859:PRO:O	2:M:867:VAL:HG22	2.02	0.60
2:M:897:LEU:HD21	2:M:920:GLN:NE2	2.17	0.60
3:N:1149:LEU:HD12	3:N:1161:GLU:O	2.01	0.60
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:61:GLY:HA3	3:N:64:LYS:HE3	1.84	0.60
2:M:1042:ALA:HB3	3:N:710:ARG:HB3	1.82	0.60
5:P:151:LEU:HD22	5:P:153:PRO:HD2	1.82	0.60
1:A:101:LEU:HD21	1:A:113:ASP:HB3	1.82	0.60
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.02	0.60
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.16	0.60
2:C:732:ALA:O	2:C:735:ARG:HG3	2.02	0.60
2:C:9:ILE:HD12	2:C:9:ILE:O	2.02	0.60
3:D:98:PRO:HG3	3:D:515:GLU:HB3	1.83	0.60
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.83	0.60
4:E:92:ILE:HD12	9:E:9526:HOH:O	2.00	0.60
1:L:106:PRO:HD3	9:L:4025:HOH:O	2.00	0.60
2:M:371:LYS:HA	9:M:9635:HOH:O	2.00	0.60
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.32	0.60
3:N:422:ALA:HB1	5:P:178:ARG:NH1	2.17	0.60
5:P:280:GLN:OE1	5:P:281:GLU:HB2	2.01	0.60
1:A:131:THR:HG22	9:A:9698:HOH:O	2.00	0.60
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.84	0.60
1:B:133:GLU:HG2	9:B:9517:HOH:O	2.02	0.60
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.01	0.60
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.31	0.60
2:C:72:ARG:HG2	9:C:2099:HOH:O	2.01	0.60
3:D:396:VAL:HG23	9:D:9780:HOH:O	2.00	0.60
3:D:448:GLU:HB2	9:D:2438:HOH:O	2.00	0.60
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.17	0.60
5:F:87:GLU:O	5:F:91:VAL:HG23	2.02	0.60
2:M:752:GLY:H	2:M:792:VAL:HB	1.66	0.60
3:N:140:ALA:HA	9:N:2102:HOH:O	2.00	0.60
3:N:468:LEU:HB3	9:N:9852:HOH:O	2.02	0.60
3:N:838:ARG:HD3	3:N:874:GLU:HB3	1.83	0.60
3:N:895:VAL:HG23	9:N:2424:HOH:O	2.00	0.60
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.66	0.60
2:C:110:GLU:OE2	2:C:369:PRO:HD3	2.02	0.60
2:C:669:GLY:HA3	2:C:995:MET:HA	1.82	0.60
3:D:964:LEU:HD13	3:D:1058:ARG:NH1	2.16	0.60
3:D:1124:GLN:NE2	3:D:1135:ARG:HA	2.17	0.60
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.32	0.60
1:K:138:LEU:HB2	9:K:4454:HOH:O	2.01	0.60
2:M:142:ARG:HA	9:M:2057:HOH:O	2.00	0.60
2:M:413:LEU:H	2:M:413:LEU:HD12	1.67	0.60
2:M:630:ARG:HH21	2:M:706:GLU:HA	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.83	0.60
2:M:1071:ILE:O	3:N:659:LYS:HB2	2.02	0.60
3:N:75:ARG:HB2	9:N:9667:HOH:O	2.01	0.60
5:P:102:LEU:O	5:P:106:VAL:HG23	2.02	0.60
1:B:226:SER:O	1:B:228:PRO:HD3	2.02	0.60
2:C:269:LEU:HG	2:C:285:LEU:HD21	1.82	0.60
2:C:338:GLU:HA	2:C:341:THR:HG22	1.83	0.60
3:D:1357:ARG:HG3	9:D:2129:HOH:O	2.01	0.60
3:D:1382:THR:HA	3:D:1389:LEU:HD13	1.83	0.60
3:D:153:LEU:HD12	3:D:154:THR:H	1.65	0.60
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.82	0.60
3:D:890:VAL:HG22	3:D:926:LYS:HE2	1.84	0.60
1:K:193:ASP:HA	2:M:938:LYS:NZ	2.17	0.60
2:M:166:PRO:HD3	2:M:265:ARG:HG3	1.84	0.60
2:M:288:ARG:HB3	9:M:9790:HOH:O	2.00	0.60
2:M:716:LYS:HD3	9:M:9645:HOH:O	2.02	0.60
3:N:423:ASP:OD1	5:P:174:LEU:HD13	2.01	0.60
1:B:132:LEU:HD22	9:B:9527:HOH:O	2.01	0.60
1:B:150:TYR:CD2	3:D:857:ILE:HG13	2.37	0.60
1:B:212:ASN:O	1:B:215:VAL:HG22	2.02	0.60
2:C:776:SER:HB3	9:F:9725:HOH:O	2.02	0.60
3:D:1380:GLU:HG3	3:D:1381:VAL:N	2.17	0.60
3:D:204:LEU:HD22	9:D:9905:HOH:O	2.00	0.60
3:D:572:ARG:HH12	5:F:79:ASP:CG	2.05	0.60
3:D:566:ILE:HG23	5:F:214:GLN:OE1	2.01	0.60
1:L:88:ARG:HH11	1:L:88:ARG:HG2	1.67	0.60
2:M:151:ASP:HB2	2:M:157:ARG:O	2.01	0.60
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.83	0.60
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.02	0.60
2:M:208:ALA:O	2:M:218:VAL:HG21	2.01	0.60
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.84	0.60
2:M:308:ARG:HD2	9:M:9801:HOH:O	2.00	0.60
2:M:498:GLN:O	2:M:501:THR:HG23	2.01	0.60
2:M:704:HIS:CB	2:M:831:ARG:HE	2.12	0.60
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.84	0.60
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.83	0.60
9:N:2863:HOH:O	4:O:92:ILE:HD13	2.01	0.60
5:P:96:LEU:HD12	5:P:97:GLU:OE2	2.01	0.60
1:B:206:THR:CG2	1:B:209:GLU:H	2.14	0.60
2:C:575:GLN:HB2	2:C:670:GLN:HG2	1.84	0.60
3:D:1354:LYS:HB3	9:D:2873:HOH:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.84	0.60
3:D:117:ASP:HB2	3:D:495:ARG:NH2	2.17	0.60
3:D:58:CYS:SG	3:D:59:ALA:N	2.75	0.60
3:D:957:PRO:HG3	3:D:1010:ASN:HD22	1.66	0.60
5:F:261:PRO:O	5:F:265:VAL:HG23	2.01	0.60
5:F:416:ARG:HB3	9:F:9549:HOH:O	2.00	0.60
1:K:88:ARG:HD2	1:K:121:GLU:HG2	1.84	0.60
1:K:18:ARG:O	1:K:207:PRO:HD3	2.02	0.60
2:M:166:PRO:HB2	9:M:9850:HOH:O	2.02	0.60
2:M:183:SER:HB3	2:M:190:LYS:HD3	1.83	0.60
2:M:23:VAL:HG13	9:M:2537:HOH:O	2.02	0.60
2:M:378:LEU:HB2	9:M:9803:HOH:O	2.02	0.60
2:M:855:VAL:HG23	9:M:9763:HOH:O	2.01	0.60
2:M:971:LYS:HA	2:M:988:VAL:HA	1.84	0.60
3:N:500:ARG:HH12	3:N:1387:SER:HA	1.67	0.60
3:N:434:ARG:HB2	3:N:447:VAL:CG1	2.32	0.60
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.67	0.60
3:N:769:LEU:HA	9:N:9921:HOH:O	2.02	0.60
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.32	0.59
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.31	0.59
3:D:483:HIS:ND1	3:D:483:HIS:N	2.50	0.59
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.84	0.59
5:F:126:LEU:HA	9:F:9910:HOH:O	2.01	0.59
5:F:402:ASN:O	5:F:406:ARG:HG3	2.01	0.59
2:M:191:PHE:CE2	2:M:195:LEU:HB3	2.37	0.59
2:M:233:GLU:OE1	2:M:237:ARG:HD3	2.02	0.59
2:M:244:PRO:HG2	2:M:246:ASP:OD2	2.02	0.59
3:N:1245:GLY:HA2	9:N:2088:HOH:O	2.01	0.59
3:N:510:GLU:O	3:N:513:ILE:HD12	2.02	0.59
3:N:679:ARG:HB2	3:N:682:ASP:OD2	2.01	0.59
5:P:393:THR:HG22	5:P:394:ARG:H	1.67	0.59
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.37	0.59
1:B:5:LYS:O	1:B:8:ALA:HB2	2.02	0.59
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.83	0.59
2:C:395:LYS:HE3	2:C:407:LYS:HD2	1.84	0.59
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.84	0.59
3:D:1096:ARG:CB	3:D:1096:ARG:HH11	2.12	0.59
3:D:1312:LEU:HB3	9:D:9676:HOH:O	2.01	0.59
3:D:170:PRO:HG3	9:D:2967:HOH:O	2.01	0.59
3:D:818:ARG:HB3	9:D:9738:HOH:O	2.02	0.59
5:F:351:SER:O	5:F:355:GLU:HB2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:5:LYS:O	1:L:8:ALA:HB2	2.01	0.59
2:M:1040:LEU:HD21	2:M:1048:THR:HG22	1.85	0.59
2:M:545:ASN:O	2:M:581:THR:HG21	2.02	0.59
3:N:1327:ARG:HB2	9:N:2252:HOH:O	2.01	0.59
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.82	0.59
3:N:625:TYR:O	3:N:749:VAL:HG23	2.02	0.59
1:A:5:LYS:O	1:A:8:ALA:HB2	2.01	0.59
2:C:148:PHE:HB3	9:C:9945:HOH:O	2.02	0.59
2:C:405:ARG:HH12	2:C:563:ASN:HD22	1.50	0.59
3:D:1087:ARG:HA	3:D:1090:ASP:HB2	1.82	0.59
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.85	0.59
3:D:1156:LEU:HB3	9:D:2264:HOH:O	2.02	0.59
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.17	0.59
9:D:9632:HOH:O	4:E:7:ASP:HB2	2.02	0.59
5:F:198:ILE:HG21	9:F:9669:HOH:O	2.02	0.59
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.84	0.59
2:M:89:THR:HA	2:M:129:ILE:O	2.03	0.59
3:N:535:PHE:HA	9:N:2026:HOH:O	2.01	0.59
2:C:157:ARG:HD3	2:C:158:TYR:H	1.68	0.59
2:C:172:ILE:H	2:C:172:ILE:HD12	1.68	0.59
2:C:625:LEU:HD13	2:C:639:GLN:O	2.02	0.59
2:C:881:ASN:HD22	2:C:881:ASN:H	1.50	0.59
2:C:897:LEU:HG	2:C:920:GLN:NE2	2.16	0.59
3:D:119:SER:CB	3:D:123:LEU:HB2	2.33	0.59
1:K:57:TYR:CE2	1:K:59:GLU:HA	2.37	0.59
2:M:874:LEU:CD1	3:N:783:ARG:HB2	2.32	0.59
2:M:944:LEU:HD11	2:M:963:LEU:CD2	2.32	0.59
3:N:404:GLU:HB3	3:N:414:ARG:NE	2.17	0.59
3:N:513:ILE:HA	9:N:9680:HOH:O	2.02	0.59
1:A:123:MET:O	1:A:125:PRO:HD3	2.02	0.59
1:A:20:TYR:HD2	1:A:21:GLY:N	2.01	0.59
1:A:58:ILE:HB	1:A:61:VAL:HB	1.84	0.59
2:C:171:TRP:HB2	9:C:2032:HOH:O	2.02	0.59
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.66	0.59
3:D:1180:ALA:HB2	9:D:9936:HOH:O	2.01	0.59
5:F:187:LEU:HD23	5:F:191:ASN:ND2	2.18	0.59
1:L:171:PHE:O	1:L:173:PRO:HD3	2.01	0.59
2:M:299:LYS:HB3	9:M:9701:HOH:O	2.01	0.59
3:N:170:PRO:HB3	9:N:2454:HOH:O	2.03	0.59
3:N:764:LEU:HB3	3:N:767:HIS:CD2	2.38	0.59
1:A:181:VAL:O	2:C:937:ASP:HA	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:902:ILE:O	2:C:904:PRO:HD3	2.02	0.59
3:D:1257:PRO:HA	9:D:9962:HOH:O	2.03	0.59
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.85	0.59
3:D:525:ARG:HA	3:D:538:SER:HB3	1.84	0.59
1:K:91:ASN:O	1:K:94:LEU:HD12	2.01	0.59
2:M:1113:GLU:HB3	9:M:9896:HOH:O	2.01	0.59
3:N:1472:ILE:HA	9:N:9577:HOH:O	2.02	0.59
3:N:135:LEU:HD13	3:N:147:VAL:HG23	1.85	0.59
5:P:371:LEU:HD23	9:P:4033:HOH:O	2.01	0.59
1:B:143:ARG:HD2	1:B:158:ILE:HG21	1.84	0.59
1:B:59:GLU:HG2	1:B:139:ASN:O	2.02	0.59
2:C:1016:ILE:HD12	3:D:526:PRO:HG2	1.85	0.59
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.83	0.59
5:F:153:PRO:HG2	5:F:154:LYS:HE2	1.84	0.59
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.33	0.59
1:L:36:LEU:O	1:L:39:PRO:HD2	2.03	0.59
3:N:1198:TYR:OH	3:N:1397:LYS:HE2	2.02	0.59
3:N:1466:VAL:HG23	3:N:1472:ILE:HD11	1.85	0.59
3:N:592:THR:HA	9:N:9695:HOH:O	2.02	0.59
2:M:1043:TYR:CE1	3:N:710:ARG:HB2	2.37	0.59
1:B:140:MET:HG2	9:B:9759:HOH:O	2.01	0.59
2:C:431:HIS:CD2	2:C:433:THR:H	2.20	0.59
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.85	0.59
2:C:846:LYS:HD3	3:D:741:ASP:HB2	1.84	0.59
5:F:247:ILE:HG22	5:F:251:ILE:HD11	1.85	0.59
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.84	0.59
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.84	0.59
3:N:462:GLN:HG3	3:N:513:ILE:HD13	1.85	0.59
3:N:85:VAL:HB	3:N:89:ARG:CZ	2.33	0.59
4:O:54:LEU:HG	4:O:58:PRO:HD2	1.84	0.59
2:C:529:VAL:HG11	9:C:9866:HOH:O	2.03	0.59
2:C:976:ASP:CB	2:C:979:THR:HG22	2.33	0.59
3:D:1083:ASP:HB3	3:D:1087:ARG:HH21	1.66	0.59
3:D:1106:VAL:HA	9:D:9733:HOH:O	2.02	0.59
3:D:119:SER:HB2	3:D:123:LEU:N	2.17	0.59
3:D:1488:ASP:HB3	9:E:9588:HOH:O	2.02	0.59
5:F:77:THR:O	5:F:81:VAL:HG23	2.03	0.59
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.67	0.59
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.85	0.59
1:A:9:PRO:HB3	1:A:25:LEU:HD21	1.84	0.59
2:C:11:GLU:HG2	2:C:537:LYS:HZ1	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:572:ILE:HG21	9:C:9934:HOH:O	2.03	0.59
2:C:701:THR:HG21	9:C:9689:HOH:O	2.02	0.59
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.68	0.59
4:E:50:THR:HG22	9:E:9512:HOH:O	2.03	0.59
1:K:102:LYS:HG3	1:K:139:ASN:HB2	1.84	0.59
2:M:35:PRO:HD2	2:M:38:LYS:HG3	1.85	0.59
2:M:328:LEU:HD11	2:M:434:HIS:HD2	1.68	0.59
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.85	0.59
2:M:517:ARG:HH11	2:M:522:VAL:HG11	1.68	0.59
3:N:1066:THR:HG23	3:N:1069:GLU:H	1.67	0.59
4:O:51:LEU:HD21	9:O:5430:HOH:O	2.02	0.59
3:N:563:PRO:HG3	5:P:188:ILE:HG21	1.85	0.59
2:C:1118:LYS:HB2	9:C:2203:HOH:O	2.01	0.58
2:C:354:GLY:HA2	9:C:2531:HOH:O	2.01	0.58
3:D:1013:GLU:HB2	9:D:9981:HOH:O	2.02	0.58
3:D:1251:ASP:O	3:D:1270:ALA:HB3	2.03	0.58
3:D:500:ARG:HG3	9:D:9596:HOH:O	2.02	0.58
4:E:45:ARG:O	4:E:47:LYS:HE3	2.02	0.58
5:F:203:THR:HG22	9:F:9554:HOH:O	2.02	0.58
1:K:100:LEU:HG	9:K:3875:HOH:O	2.03	0.58
1:K:112:ARG:HB3	1:K:112:ARG:HH11	1.67	0.58
1:K:156:HIS:CD2	1:K:157:GLY:H	2.21	0.58
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.84	0.58
2:M:513:VAL:HG13	9:M:9802:HOH:O	2.03	0.58
2:M:51:THR:HG21	9:M:2462:HOH:O	2.03	0.58
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.38	0.58
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.33	0.58
3:N:863:VAL:HA	9:N:9691:HOH:O	2.02	0.58
3:N:998:GLU:HG2	9:N:9800:HOH:O	2.02	0.58
4:O:62:THR:HA	4:O:65:MET:HE2	1.84	0.58
1:A:226:SER:O	1:A:228:PRO:HD3	2.02	0.58
1:B:76:VAL:HG11	9:B:9646:HOH:O	2.03	0.58
2:C:470:PRO:HG2	2:C:538:GLN:OE1	2.02	0.58
3:D:1107:VAL:HG21	9:D:9876:HOH:O	2.02	0.58
3:D:380:GLU:O	3:D:382:GLU:N	2.36	0.58
3:D:550:ARG:HA	9:D:9736:HOH:O	2.03	0.58
5:F:138:SER:O	5:F:141:VAL:HG12	2.03	0.58
1:K:32:PHE:HB2	9:K:4770:HOH:O	2.04	0.58
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.85	0.58
2:M:860:HIS:CD2	2:M:975:TYR:HB2	2.38	0.58
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:728:LEU:HD22	3:N:745:MET:SD	2.43	0.58
2:C:113:VAL:O	2:C:115:LEU:HD23	2.03	0.58
2:C:182:VAL:HG21	9:C:9561:HOH:O	2.02	0.58
2:C:525:SER:OG	2:C:527:GLU:HG3	2.03	0.58
2:C:601:GLY:O	2:C:648:ARG:HA	2.03	0.58
3:D:1399:ASP:O	3:D:1403:LEU:HB2	2.03	0.58
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.39	0.58
3:N:493:ARG:HH22	3:N:1388:ARG:HB3	1.68	0.58
3:N:1472:ILE:HD13	9:N:9577:HOH:O	2.03	0.58
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.33	0.58
3:N:799:LYS:H	3:N:826:PRO:HG2	1.68	0.58
3:N:860:LEU:HB2	3:N:861:GLN:NE2	2.19	0.58
5:P:128:ARG:CZ	5:P:128:ARG:HB2	2.33	0.58
3:N:573:MET:HE3	5:P:210:LEU:HD22	1.84	0.58
5:P:392:VAL:HG21	9:P:3916:HOH:O	2.04	0.58
1:A:158:ILE:HG21	9:A:9755:HOH:O	2.03	0.58
1:A:191:ASP:O	1:A:192:LEU:HD23	2.04	0.58
2:C:486:MET:HE3	2:C:491:GLU:HA	1.85	0.58
1:A:72:LYS:HA	2:C:608:GLY:N	2.18	0.58
3:D:145:VAL:HB	9:D:9617:HOH:O	2.03	0.58
2:C:1085:PHE:HE2	3:D:1468:LEU:HG	1.67	0.58
4:E:87:LYS:O	4:E:91:ARG:HG3	2.03	0.58
1:K:95:GLN:HG2	9:K:3707:HOH:O	2.02	0.58
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.33	0.58
2:M:772:ARG:HG3	2:M:773:LEU:N	2.18	0.58
2:M:87:ASP:HA	9:M:9630:HOH:O	2.03	0.58
3:N:165:LYS:HB3	3:N:395:VAL:HG11	1.84	0.58
3:N:141:ILE:HG12	3:N:449:SER:HA	1.85	0.58
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.68	0.58
5:P:321:ILE:HB	5:P:327:SER:OG	2.03	0.58
2:C:1021:LEU:HD13	5:F:331:ASP:O	2.04	0.58
2:C:276:LYS:O	2:C:280:LYS:HB2	2.03	0.58
3:D:834:THR:HB	3:D:838:ARG:HB3	1.84	0.58
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.38	0.58
2:M:460:ARG:HB3	2:M:460:ARG:NH1	2.19	0.58
2:M:948:GLU:OE1	2:M:955:PRO:HA	2.04	0.58
2:M:998:TYR:OH	2:M:1000:MET:HA	2.03	0.58
3:N:1128:VAL:HG11	9:N:2608:HOH:O	2.02	0.58
5:P:185:GLN:O	5:P:189:GLU:HG3	2.04	0.58
2:C:261:ILE:HD11	9:C:9806:HOH:O	2.02	0.58
2:C:805:ARG:HD3	9:C:2549:HOH:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1377:LYS:HG3	3:D:1394:VAL:HG13	1.86	0.58
3:D:428:LYS:HG2	9:D:2371:HOH:O	2.02	0.58
3:D:659:LYS:HD3	3:D:659:LYS:O	2.03	0.58
3:D:907:GLU:O	3:D:911:LEU:HD13	2.03	0.58
2:M:420:ARG:HD2	2:M:420:ARG:H	1.68	0.58
2:M:816:LYS:HE2	2:M:819:VAL:HG21	1.84	0.58
3:N:150:ARG:HD3	9:N:9837:HOH:O	2.04	0.58
3:N:385:VAL:HA	9:P:4715:HOH:O	2.03	0.58
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.85	0.58
3:N:953:ASP:HB3	9:N:9719:HOH:O	2.01	0.58
4:O:10:PHE:HE2	4:O:16:LYS:HG3	1.68	0.58
2:C:305:PRO:HB3	2:C:308:ARG:NH2	2.08	0.58
2:C:993:PHE:CE1	2:C:995:MET:HG2	2.38	0.58
3:D:1121:PRO:HB3	9:D:2672:HOH:O	2.02	0.58
3:D:1448:THR:O	3:D:1452:ILE:HD13	2.03	0.58
3:D:1468:LEU:HD23	3:D:1468:LEU:O	2.03	0.58
2:C:1091:GLU:OE1	3:D:613:ARG:HG2	2.03	0.58
5:F:93:LEU:HG	5:F:190:ALA:HB1	1.86	0.58
1:K:74:ASP:OD1	1:K:76:VAL:HG23	2.03	0.58
1:L:2:LEU:HD13	1:L:3:ASP:OD1	2.04	0.58
2:M:15:LEU:HD22	2:M:583:LEU:HD21	1.84	0.58
3:N:863:VAL:HG11	9:N:2870:HOH:O	2.03	0.58
1:L:77:GLU:HB2	3:N:872:ARG:NH2	2.18	0.58
5:P:201:LYS:HB2	9:P:6229:HOH:O	2.03	0.58
1:B:7:LYS:HD3	9:B:9540:HOH:O	2.02	0.58
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.17	0.58
3:D:1066:THR:CG2	3:D:1069:GLU:H	2.15	0.58
3:D:589:ALA:HB2	9:D:2639:HOH:O	2.03	0.58
1:K:99:LEU:HB3	1:K:114:PHE:HD2	1.67	0.58
2:M:769:PRO:HB2	9:M:9652:HOH:O	2.03	0.58
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.17	0.58
3:N:1124:GLN:N	3:N:1133:ARG:O	2.37	0.58
3:N:1376:MET:HB3	9:N:2499:HOH:O	2.04	0.58
3:N:1459:LEU:HD13	3:N:1465:ASN:ND2	2.19	0.58
3:N:152:LEU:HD23	3:N:152:LEU:N	2.17	0.58
3:N:658:LEU:HD23	3:N:673:ALA:HB3	1.86	0.58
4:O:10:PHE:CE2	4:O:16:LYS:HG3	2.39	0.58
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.83	0.58
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.86	0.58
3:D:537:THR:O	5:F:317:LEU:HB2	2.03	0.58
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:817:GLU:O	3:D:821:VAL:HG23	2.04	0.58
5:F:126:LEU:HB3	9:F:9770:HOH:O	2.02	0.58
1:K:20:TYR:HD2	1:K:21:GLY:H	1.52	0.58
1:L:164:ALA:HA	9:L:4389:HOH:O	2.03	0.58
2:M:1000:MET:O	2:M:1003:ASP:HB3	2.04	0.58
2:M:49:ARG:HH11	2:M:49:ARG:HB2	1.69	0.58
2:M:571:LEU:HG	2:M:701:THR:H	1.69	0.58
2:M:897:LEU:HD21	2:M:920:GLN:HE21	1.68	0.58
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.04	0.58
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.84	0.58
3:N:423:ASP:HB3	5:P:175:HIS:HA	1.84	0.58
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.86	0.58
4:O:48:MET:N	4:O:54:LEU:HB2	2.19	0.58
5:P:401:GLU:O	5:P:405:LEU:HB2	2.03	0.58
1:B:14:ARG:HD2	9:B:9699:HOH:O	2.04	0.58
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.34	0.58
2:C:203:ASP:HA	9:C:2206:HOH:O	2.01	0.58
3:D:1095:THR:O	3:D:1099:VAL:HG23	2.03	0.58
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.86	0.58
3:D:1264:GLU:OE1	3:D:1425:THR:HB	2.03	0.58
3:D:86:ARG:HH11	3:D:86:ARG:HG2	1.68	0.58
5:F:264:MET:O	5:F:267:THR:HB	2.04	0.58
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.19	0.58
2:M:169:GLY:HA3	9:M:2243:HOH:O	2.04	0.58
3:N:116:LEU:HD23	3:N:468:LEU:HD11	1.84	0.58
3:N:1263:PHE:HA	3:N:1375:MET:HE1	1.85	0.58
3:N:211:VAL:HG22	3:N:393:ILE:HG23	1.86	0.58
3:N:30:GLU:HG3	3:N:41:ARG:HG2	1.86	0.58
2:C:538:GLN:HB2	9:C:9681:HOH:O	2.03	0.57
2:C:897:LEU:HG	2:C:920:GLN:HE21	1.68	0.57
1:A:31:GLY:HA2	2:C:939:ARG:HH22	1.68	0.57
3:D:1111:ASP:HB2	9:D:2820:HOH:O	2.03	0.57
3:D:1130:ARG:HG3	9:D:9602:HOH:O	2.02	0.57
3:D:1389:LEU:HD22	9:D:2920:HOH:O	2.03	0.57
5:F:87:GLU:HG3	9:F:9969:HOH:O	2.03	0.57
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.85	0.57
2:M:73:LEU:HB3	2:M:94:LEU:HB2	1.86	0.57
2:M:973:VAL:O	2:M:974:LEU:HD12	2.03	0.57
3:N:509:PRO:HG2	9:N:9632:HOH:O	2.03	0.57
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.85	0.57
9:L:3698:HOH:O	3:N:842:VAL:HB	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.19	0.57
2:C:268:ASP:HB3	2:C:272:ALA:HB2	1.86	0.57
2:C:682:TYR:HE2	9:D:2879:HOH:O	1.85	0.57
3:D:1288:GLU:OE1	3:D:1289:LYS:HE3	2.04	0.57
2:C:886:LEU:CG	3:D:951:ILE:HG13	2.34	0.57
3:D:992:ILE:O	3:D:995:LEU:HB3	2.04	0.57
5:F:220:LEU:O	5:F:224:VAL:HG23	2.04	0.57
2:M:853:LEU:HD23	2:M:858:MET:HB3	1.84	0.57
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.39	0.57
2:M:1049:LEU:HD23	3:N:1472:ILE:HG13	1.86	0.57
1:A:123:MET:C	1:A:125:PRO:HD3	2.24	0.57
1:A:143:ARG:HD2	1:A:145:ASP:OD1	2.04	0.57
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.86	0.57
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.68	0.57
1:A:178:ALA:CB	2:C:864:GLY:H	2.16	0.57
2:C:676:ILE:HG21	2:C:988:VAL:HG22	1.85	0.57
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.03	0.57
3:D:1003:VAL:HG21	3:D:1041:LEU:HD23	1.87	0.57
3:D:1333:HIS:ND1	3:D:1421:LEU:HD23	2.18	0.57
3:D:1425:THR:HG23	3:D:1426:LYS:N	2.18	0.57
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.85	0.57
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.69	0.57
5:F:154:LYS:O	5:F:158:GLU:HG3	2.04	0.57
1:K:133:GLU:HG2	1:K:134:GLU:H	1.68	0.57
1:K:13:VAL:HG12	1:K:15:THR:HG22	1.86	0.57
1:K:5:LYS:O	1:K:8:ALA:HB2	2.04	0.57
2:M:573:ARG:HG3	2:M:698:ASP:O	2.04	0.57
2:M:707:ARG:HH12	2:M:709:GLU:HB2	1.69	0.57
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.68	0.57
3:N:132:TYR:HA	9:N:9655:HOH:O	2.04	0.57
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.04	0.57
4:O:31:LEU:HD21	4:O:60:ALA:HB2	1.85	0.57
5:P:131:VAL:HG12	5:P:181:GLU:HG3	1.87	0.57
5:P:350:LEU:HA	5:P:422:LEU:HD13	1.86	0.57
5:P:75:ILE:HB	9:P:3733:HOH:O	2.02	0.57
1:A:191:ASP:HB3	9:A:9741:HOH:O	2.04	0.57
2:C:362:GLY:HA3	2:C:367:LEU:HD22	1.84	0.57
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.84	0.57
3:D:1223:ILE:HD12	3:D:1223:ILE:H	1.69	0.57
3:D:1409:ALA:HB3	9:D:9722:HOH:O	2.05	0.57
3:D:32:ILE:HG22	5:F:258:ILE:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:466:LYS:HE3	9:D:2265:HOH:O	2.03	0.57
3:D:969:ARG:O	3:D:972:LEU:HB3	2.04	0.57
3:D:970:LYS:HB2	3:D:970:LYS:NZ	2.19	0.57
1:L:30:ARG:NH2	2:M:854:PRO:HG3	2.19	0.57
2:M:144:PRO:HB3	9:M:2335:HOH:O	2.03	0.57
2:M:428:ARG:HE	2:M:451:LEU:HD21	1.69	0.57
2:M:598:GLU:O	2:M:651:LYS:HG3	2.04	0.57
3:N:1033:GLN:HE21	3:N:1036:ARG:HD3	1.68	0.57
3:N:1494:ALA:HB2	9:N:2863:HOH:O	2.03	0.57
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.34	0.57
3:N:369:ALA:HB2	9:N:9972:HOH:O	2.04	0.57
9:M:9643:HOH:O	3:N:647:ARG:HG2	2.04	0.57
3:N:679:ARG:HH22	3:N:681:ARG:HE	1.51	0.57
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.86	0.57
5:P:291:ILE:O	5:P:295:MET:HB2	2.04	0.57
5:P:358:LEU:CG	5:P:370:LYS:HG3	2.34	0.57
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.39	0.57
2:C:1060:ILE:HG23	2:C:1061:GLU:N	2.19	0.57
2:C:175:GLU:HB3	2:C:183:SER:OG	2.03	0.57
2:C:910:LYS:HB2	2:C:913:GLU:OE1	2.04	0.57
3:D:1418:LYS:HB3	9:D:2451:HOH:O	2.03	0.57
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.35	0.57
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.04	0.57
2:M:3:ILE:HG12	9:M:9707:HOH:O	2.05	0.57
2:M:430:VAL:HG11	9:N:2751:HOH:O	2.04	0.57
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.86	0.57
3:N:707:THR:HG21	3:N:713:ILE:HD12	1.87	0.57
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.87	0.57
1:A:89:PHE:CZ	1:A:146:ARG:HB2	2.39	0.57
2:C:209:ARG:HB3	9:C:2024:HOH:O	2.03	0.57
2:C:599:GLU:HG2	2:C:600:ASP:N	2.19	0.57
2:C:874:LEU:O	3:D:1029:ARG:HD2	2.04	0.57
3:D:1088:THR:HA	9:D:2611:HOH:O	2.05	0.57
3:D:1132:LEU:HD21	9:D:9739:HOH:O	2.04	0.57
3:D:195:VAL:HG13	9:D:2497:HOH:O	2.04	0.57
2:M:861:LEU:HD23	2:M:862:PRO:HD2	1.86	0.57
3:N:1314:LYS:HG2	9:N:9784:HOH:O	2.04	0.57
3:N:774:SER:HB3	3:N:1362:LYS:O	2.05	0.57
3:N:1432:LYS:HD2	3:N:1433:SER:H	1.70	0.57
5:P:262:VAL:HG12	5:P:266:GLU:OE2	2.05	0.57
5:P:356:LYS:HB3	9:P:6439:HOH:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:95:THR:HB	5:P:96:LEU:HD23	1.86	0.57
1:A:207:PRO:HB2	9:A:9571:HOH:O	2.05	0.57
1:B:117:VAL:HB	9:B:9771:HOH:O	2.05	0.57
1:B:123:MET:C	1:B:125:PRO:HD3	2.24	0.57
1:B:156:HIS:CE1	1:B:166:PRO:HB3	2.39	0.57
1:B:176:ARG:HD2	1:B:200:TRP:CE3	2.40	0.57
1:B:83:LYS:HE2	1:B:168:ASP:HB2	1.85	0.57
2:C:535:SER:O	2:C:538:GLN:HG2	2.03	0.57
2:C:626:ARG:HB2	2:C:639:GLN:HE21	1.69	0.57
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.04	0.57
3:D:1235:GLN:C	3:D:1359:GLN:HE22	2.07	0.57
3:D:1307:LYS:CD	3:D:1307:LYS:H	2.16	0.57
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.86	0.57
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.87	0.57
3:D:704:ARG:HB2	3:D:736:PHE:HD2	1.70	0.57
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.19	0.57
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.85	0.57
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.34	0.57
2:M:31:GLN:HB3	2:M:71:TYR:OH	2.04	0.57
2:M:589:ARG:HB2	2:M:589:ARG:HH11	1.68	0.57
2:M:537:LYS:HG3	2:M:905:ILE:HD11	1.87	0.57
2:M:916:GLU:HA	9:M:9951:HOH:O	2.04	0.57
2:M:957:LYS:HG2	9:M:9918:HOH:O	2.03	0.57
3:N:1353:GLN:HB3	3:N:1357:ARG:NE	2.19	0.57
3:N:117:ASP:HB2	3:N:495:ARG:CZ	2.35	0.57
3:N:699:VAL:HG11	3:N:717:GLN:HE21	1.70	0.57
4:O:88:GLU:HA	4:O:91:ARG:HD2	1.86	0.57
1:A:57:TYR:CE2	1:A:161:ARG:HD2	2.40	0.57
1:B:220:GLU:HG2	9:B:9739:HOH:O	2.04	0.57
2:C:571:LEU:HG	9:C:2194:HOH:O	2.05	0.57
2:C:739:GLU:HG3	9:C:2340:HOH:O	2.05	0.57
3:D:491:LYS:HG3	9:D:9968:HOH:O	2.05	0.57
3:D:64:LYS:HD3	5:F:376:ILE:O	2.04	0.57
3:D:965:GLU:HA	3:D:968:ASP:OD2	2.04	0.57
3:D:96:ALA:HB3	9:D:2030:HOH:O	2.04	0.57
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.39	0.57
1:K:162:ILE:HD13	9:M:9894:HOH:O	2.03	0.57
2:M:1000:MET:HB3	2:M:1002:GLU:HG3	1.86	0.57
2:M:285:LEU:HG	2:M:287:GLY:O	2.05	0.57
2:M:393:GLN:HB3	7:M:8002:RBT:H25	1.87	0.57
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:380:GLU:O	3:N:382:GLU:N	2.37	0.57
3:N:480:GLU:OE2	3:N:484:PRO:HG2	2.04	0.57
3:N:536:ALA:HA	5:P:315:VAL:O	2.04	0.57
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.86	0.57
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.86	0.57
2:C:1055:LEU:CD2	2:C:1079:PRO:HG3	2.35	0.57
2:C:113:VAL:HG13	9:C:9695:HOH:O	2.04	0.57
2:C:239:PHE:HE1	2:C:250:ARG:HB3	1.69	0.57
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.14	0.57
2:C:329:GLY:H	2:C:488:ALA:HB3	1.68	0.57
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.35	0.57
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.86	0.57
3:D:776:GLU:HB3	3:D:912:LYS:HE2	1.87	0.57
3:D:913:ASP:HB3	9:D:9764:HOH:O	2.04	0.57
5:F:286:PRO:HD3	9:F:9783:HOH:O	2.04	0.57
1:L:115:LEU:O	1:L:115:LEU:HD12	2.04	0.57
1:L:18:ARG:O	1:L:207:PRO:HD3	2.05	0.57
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.87	0.57
2:M:569:VAL:HG11	2:M:996:LYS:NZ	2.19	0.57
2:M:630:ARG:HA	2:M:705:ILE:CD1	2.35	0.57
3:N:1019:PRO:HB2	9:N:9719:HOH:O	2.04	0.57
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.39	0.57
9:N:2624:HOH:O	5:P:140:ARG:HB2	2.05	0.57
1:A:206:THR:CG2	1:A:209:GLU:H	2.17	0.57
2:C:436:GLY:HA3	2:C:469:THR:OG1	2.04	0.57
2:C:553:ASP:OD1	2:C:843:HIS:ND1	2.38	0.57
2:C:918:LEU:HB3	2:C:968:LEU:HD23	1.87	0.57
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.05	0.57
2:M:1017:THR:HG23	9:M:9737:HOH:O	2.05	0.57
2:M:601:GLY:O	2:M:648:ARG:HA	2.05	0.57
2:M:602:GLU:HB3	9:M:2158:HOH:O	2.04	0.57
3:N:1063:GLU:HG3	3:N:1064:GLY:H	1.70	0.57
3:N:1417:TRP:HA	9:N:9876:HOH:O	2.04	0.57
3:N:510:GLU:HG3	9:N:9632:HOH:O	2.05	0.57
4:O:21:VAL:HG12	9:O:4298:HOH:O	2.03	0.57
5:P:138:SER:O	5:P:141:VAL:HG12	2.04	0.57
5:P:262:VAL:HG23	9:P:3903:HOH:O	2.04	0.57
2:C:289:THR:HG22	2:C:290:LEU:H	1.69	0.56
2:C:516:ARG:HG3	3:D:1068:LEU:HD13	1.87	0.56
3:D:393:ILE:HG22	9:D:9647:HOH:O	2.03	0.56
3:D:565:ILE:HB	5:F:84:TYR:CD2	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:969:ARG:HG3	3:D:970:LYS:N	2.20	0.56
5:F:291:ILE:O	5:F:295:MET:HB2	2.05	0.56
1:K:61:VAL:HG21	1:K:68:ILE:HD11	1.87	0.56
1:L:80:LEU:HG	3:N:844:ALA:HB2	1.86	0.56
2:M:571:LEU:HD21	2:M:700:TYR:HA	1.87	0.56
2:M:719:PRO:HB2	9:M:9649:HOH:O	2.04	0.56
2:M:755:LEU:HB2	2:M:790:LEU:HG	1.87	0.56
3:N:486:ARG:O	3:N:486:ARG:HD3	2.05	0.56
3:N:693:GLU:HA	4:O:48:MET:HE1	1.86	0.56
3:N:807:ALA:HB2	3:N:833:GLU:OE1	2.04	0.56
3:N:987:GLU:HA	9:N:9775:HOH:O	2.05	0.56
5:P:132:ARG:HE	5:P:184:ARG:NH1	2.03	0.56
5:P:385:GLU:O	5:P:397:ILE:HD13	2.04	0.56
1:A:205:VAL:HG23	1:A:206:THR:N	2.20	0.56
2:C:147:TYR:HE2	2:C:280:LYS:HZ3	1.53	0.56
2:C:462:ASP:CB	2:C:468:ARG:HD2	2.35	0.56
2:C:605:LYS:HD2	2:C:612:VAL:CG2	2.35	0.56
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.68	0.56
3:D:102:ILE:HG13	9:D:9670:HOH:O	2.05	0.56
3:D:1320:GLU:H	3:D:1323:GLN:NE2	2.02	0.56
3:D:1389:LEU:HG	3:D:1390:LEU:H	1.70	0.56
3:D:1422:MET:HB2	3:D:1426:LYS:HD3	1.86	0.56
3:D:1462:LEU:HB3	3:D:1472:ILE:HD12	1.87	0.56
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.86	0.56
4:E:48:MET:N	4:E:54:LEU:HB2	2.20	0.56
4:E:33:HIS:HD2	4:E:89:MET:HE2	1.70	0.56
1:L:100:LEU:HB3	9:L:3994:HOH:O	2.06	0.56
3:N:1321:ALA:HB3	9:N:9918:HOH:O	2.04	0.56
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.32	0.56
3:N:142:LEU:HD13	9:N:2845:HOH:O	2.05	0.56
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.40	0.56
3:N:552:ASN:O	3:N:556:LYS:HD3	2.05	0.56
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.86	0.56
3:N:844:ALA:O	3:N:867:ARG:HB3	2.04	0.56
3:N:945:SER:OG	3:N:947:ILE:HG23	2.05	0.56
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.39	0.56
2:C:412:ALA:CB	2:C:451:LEU:HB3	2.35	0.56
3:D:825:ALA:HB1	9:D:2139:HOH:O	2.05	0.56
3:D:924:MET:O	3:D:927:THR:HB	2.05	0.56
2:M:1097:LEU:HD22	2:M:1097:LEU:H	1.70	0.56
2:M:198:ARG:HH21	2:M:203:ASP:HB3	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:428:ARG:NE	2:M:451:LEU:HD21	2.20	0.56
3:N:1145:TYR:CE2	3:N:1168:MET:HB2	2.40	0.56
3:N:911:LEU:HG	9:N:9875:HOH:O	2.05	0.56
1:A:74:ASP:OD1	1:A:77:GLU:HB2	2.04	0.56
1:B:124:ASN:HA	9:B:9553:HOH:O	2.03	0.56
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.32	0.56
2:C:773:LEU:O	2:C:777:ILE:HG13	2.04	0.56
3:D:1234:THR:HG21	9:D:2202:HOH:O	2.05	0.56
3:D:49:ILE:HB	3:D:50:PHE:CD1	2.40	0.56
3:D:644:LEU:HD12	3:D:645:PRO:CD	2.36	0.56
3:D:72:VAL:HG12	9:D:2118:HOH:O	2.05	0.56
3:D:921:ARG:HA	9:D:2819:HOH:O	2.03	0.56
5:F:109:GLY:O	5:F:113:ILE:HG13	2.05	0.56
5:F:149:GLU:HA	5:F:149:GLU:OE1	2.05	0.56
1:K:125:PRO:HD2	9:K:3778:HOH:O	2.04	0.56
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.41	0.56
2:M:206:THR:HA	9:M:2520:HOH:O	2.06	0.56
2:M:51:THR:HB	2:M:348:LEU:HD23	1.86	0.56
3:N:178:LEU:HD21	9:N:9629:HOH:O	2.05	0.56
3:N:645:PRO:HG3	3:N:725:SER:O	2.04	0.56
4:O:66:LYS:HD2	9:O:5393:HOH:O	2.06	0.56
5:P:166:LEU:O	5:P:171:LYS:HB2	2.05	0.56
5:P:361:LEU:HD13	5:P:366:ALA:HB1	1.86	0.56
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.88	0.56
2:C:89:THR:HA	2:C:129:ILE:O	2.06	0.56
3:D:1127:GLU:HG3	3:D:1133:ARG:NH1	2.17	0.56
3:D:469:ASP:HB2	9:D:2079:HOH:O	2.04	0.56
5:F:101:GLU:HG2	9:F:9941:HOH:O	2.06	0.56
5:F:136:LEU:HD12	5:F:137:GLY:N	2.20	0.56
5:F:404:ALA:HB3	9:F:9597:HOH:O	2.04	0.56
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.87	0.56
1:L:228:PRO:O	1:L:229:GLN:HG3	2.06	0.56
2:M:532:MET:HG3	2:M:533:ASP:N	2.21	0.56
2:M:860:HIS:HE2	2:M:975:TYR:HB2	1.68	0.56
3:N:119:SER:H	3:N:123:LEU:HB2	1.71	0.56
3:N:197:SER:CB	3:N:203:ALA:HB3	2.28	0.56
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.86	0.56
3:N:397:LYS:NZ	3:N:399:ARG:HH21	2.03	0.56
3:N:493:ARG:O	3:N:497:GLU:HG3	2.06	0.56
3:N:59:ALA:HB3	9:N:2262:HOH:O	2.04	0.56
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.41	0.56
1:B:205:VAL:HG11	9:B:9687:HOH:O	2.05	0.56
2:C:209:ARG:O	2:C:213:ALA:HB2	2.05	0.56
2:C:220:GLY:HA3	9:C:9659:HOH:O	2.06	0.56
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.87	0.56
3:D:704:ARG:HB2	3:D:736:PHE:CD2	2.41	0.56
3:D:708:LEU:O	3:D:1227:GLN:HG2	2.05	0.56
3:D:58:CYS:HA	3:D:78:VAL:HG11	1.88	0.56
3:D:813:LEU:O	3:D:817:GLU:HB2	2.05	0.56
5:F:102:LEU:HD12	5:F:187:LEU:HG	1.86	0.56
1:L:49:PRO:HD2	9:L:3855:HOH:O	2.05	0.56
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.21	0.56
2:M:629:TYR:HB2	2:M:637:LEU:HG	1.87	0.56
2:M:409:ARG:HH22	7:M:8002:RBT:H18	1.69	0.56
2:M:913:GLU:O	2:M:916:GLU:HB3	2.05	0.56
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.41	0.56
4:O:48:MET:CB	4:O:54:LEU:HB2	2.36	0.56
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.86	0.56
5:P:291:ILE:CG2	5:P:304:VAL:HG21	2.36	0.56
1:B:206:THR:HG23	1:B:209:GLU:H	1.71	0.56
2:C:433:THR:HG21	2:C:488:ALA:CB	2.30	0.56
2:C:704:HIS:CG	2:C:831:ARG:HH21	2.22	0.56
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.41	0.56
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.70	0.56
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.35	0.56
3:D:148:GLU:CB	3:D:151:GLN:HE21	2.19	0.56
3:D:493:ARG:HH12	3:D:1390:LEU:HB2	1.69	0.56
3:D:754:PHE:HZ	4:E:21:VAL:HG13	1.69	0.56
1:L:101:LEU:HG	1:L:114:PHE:HA	1.87	0.56
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.26	0.56
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.87	0.56
2:M:346:VAL:HA	9:M:2321:HOH:O	2.06	0.56
2:M:100:LEU:HG	2:M:368:THR:HG23	1.86	0.56
2:M:66:LEU:HD23	9:M:2181:HOH:O	2.04	0.56
2:M:807:ARG:NH1	2:M:807:ARG:HB2	2.20	0.56
3:N:1342:GLU:HG2	9:N:2451:HOH:O	2.05	0.56
3:N:1364:HIS:ND1	3:N:1366:LYS:HB2	2.21	0.56
3:N:9:ARG:NH1	3:N:506:GLY:HA2	2.09	0.56
3:N:65:ARG:HG3	3:N:66:GLN:H	1.70	0.56
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.88	0.56
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:201:THR:HB	9:L:3796:HOH:O	2.06	0.56
1:L:212:ASN:O	1:L:215:VAL:HG22	2.05	0.56
2:M:24:GLU:HB3	9:M:9804:HOH:O	2.04	0.56
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.86	0.56
2:M:34:VAL:HB	2:M:38:LYS:CG	2.32	0.56
2:M:405:ARG:HD2	2:M:442:GLU:CD	2.26	0.56
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.41	0.56
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.88	0.56
4:O:18:ARG:HH22	4:O:77:GLU:HG2	1.71	0.56
1:A:206:THR:HG22	1:A:209:GLU:H	1.69	0.56
1:A:209:GLU:O	1:A:213:GLN:HG3	2.05	0.56
1:B:38:ASN:OD1	2:C:979:THR:HA	2.06	0.56
3:D:141:ILE:CG2	3:D:161:LEU:HD21	2.36	0.56
3:D:424:GLY:HA2	3:D:435:VAL:O	2.05	0.56
3:D:68:PHE:HA	3:D:71:LYS:NZ	2.21	0.56
5:F:403:LYS:HA	5:F:403:LYS:NZ	2.21	0.56
1:K:157:GLY:HA3	9:K:5169:HOH:O	2.06	0.56
1:L:143:ARG:HH11	1:L:158:ILE:HG23	1.71	0.56
2:M:178:PRO:HA	9:M:9615:HOH:O	2.05	0.56
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.86	0.56
2:M:254:VAL:HG11	9:M:2051:HOH:O	2.04	0.56
2:M:329:GLY:N	2:M:488:ALA:HB3	2.21	0.56
2:M:926:PHE:O	2:M:930:LYS:HG3	2.06	0.56
1:K:193:ASP:HA	2:M:938:LYS:HZ2	1.70	0.56
3:N:1124:GLN:HG2	3:N:1133:ARG:HG2	1.87	0.56
3:N:1287:GLU:HA	9:N:2127:HOH:O	2.06	0.56
3:N:96:ALA:H	3:N:551:ASN:HD21	1.53	0.56
5:P:416:ARG:NH1	5:P:419:ARG:HB2	2.21	0.56
1:B:112:ARG:HH12	1:B:126:ASP:HA	1.71	0.56
2:C:1088:LEU:HB2	9:D:9563:HOH:O	2.04	0.56
2:C:715:THR:CG2	2:C:717:LEU:HG	2.35	0.56
3:D:1155:VAL:HG11	3:D:1183:ILE:HD11	1.88	0.56
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.36	0.56
3:D:1280:VAL:HG23	3:D:1295:GLU:O	2.05	0.56
3:D:136:ASP:HB3	3:D:137:PRO:CD	2.23	0.56
3:D:711:LEU:HD12	3:D:778:LEU:HD23	1.87	0.56
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.20	0.56
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.87	0.56
2:M:964:LYS:O	2:M:968:LEU:HD23	2.04	0.56
3:N:112:ILE:HG13	3:N:124:GLU:OE2	2.06	0.56
3:N:1271:LYS:HG2	3:N:1272:ALA:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1402:ALA:HB2	3:N:1415:VAL:CG2	2.35	0.56
3:N:1465:ASN:ND2	3:N:1470:ARG:HD3	2.21	0.56
3:N:631:ILE:HG12	3:N:743:ASP:O	2.06	0.56
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.87	0.56
2:C:1109:VAL:HG22	3:D:3:LYS:HG3	1.88	0.56
2:C:378:LEU:O	2:C:382:ILE:HG13	2.06	0.56
2:C:532:MET:HG3	2:C:533:ASP:N	2.21	0.56
2:C:583:LEU:O	2:C:587:VAL:HG23	2.05	0.56
3:D:103:TRP:HD1	9:D:9830:HOH:O	1.88	0.56
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.06	0.56
3:D:1367:HIS:O	3:D:1371:VAL:HG23	2.05	0.56
3:D:534:ARG:HD3	9:D:9954:HOH:O	2.06	0.56
3:D:711:LEU:CD1	3:D:778:LEU:HD23	2.36	0.56
2:C:949:LYS:HD2	3:D:796:ARG:HH21	1.70	0.56
3:D:866:VAL:HG13	9:D:9991:HOH:O	2.04	0.56
5:F:277:GLN:HG3	9:F:9616:HOH:O	2.06	0.56
1:L:58:ILE:HD12	1:L:138:LEU:HD11	1.86	0.56
2:M:244:PRO:HB2	9:M:2065:HOH:O	2.05	0.56
2:M:557:ARG:NH1	2:M:879:ARG:HD3	2.21	0.56
3:N:153:LEU:HD23	9:N:9640:HOH:O	2.06	0.56
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.33	0.56
3:N:545:ARG:HD3	9:N:2016:HOH:O	2.06	0.56
2:M:1007:ALA:HB2	3:N:648:MET:CE	2.36	0.56
4:O:17:TYR:CD2	4:O:17:TYR:N	2.72	0.56
5:P:358:LEU:HD11	5:P:370:LYS:HE3	1.87	0.56
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.41	0.55
2:C:959:PRO:O	2:C:963:LEU:HD23	2.06	0.55
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.86	0.55
3:D:1061:PHE:HA	9:D:9657:HOH:O	2.06	0.55
3:D:109:PRO:HD3	9:D:9737:HOH:O	2.05	0.55
3:D:1299:PHE:HB2	9:D:9590:HOH:O	2.05	0.55
3:D:1364:HIS:NE2	3:D:1366:LYS:HE3	2.21	0.55
3:D:181:ASP:O	3:D:185:VAL:HG23	2.06	0.55
9:C:9810:HOH:O	3:D:943:THR:HG21	2.06	0.55
3:D:963:TYR:CE2	3:D:1002:LYS:HB3	2.41	0.55
5:F:141:VAL:HA	9:F:9945:HOH:O	2.06	0.55
1:K:28:LEU:HD23	9:L:5369:HOH:O	2.07	0.55
1:K:9:PRO:HB3	1:K:25:LEU:HD21	1.88	0.55
1:L:33:GLY:O	1:L:195:LEU:HD22	2.06	0.55
2:M:223:ASP:OD1	2:M:224:GLU:HG2	2.07	0.55
2:M:256:TYR:HE1	2:M:293:PHE:HB2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:418:LEU:HB3	9:M:9836:HOH:O	2.06	0.55
2:M:455:LEU:HD12	2:M:456:ALA:O	2.05	0.55
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.26	0.55
2:M:71:TYR:H	2:M:71:TYR:HD2	1.54	0.55
2:M:852:ILE:HG12	9:M:2100:HOH:O	2.06	0.55
3:N:637:LEU:HD11	3:N:641:GLN:C	2.27	0.55
3:N:704:ARG:HD2	3:N:705:ALA:N	2.14	0.55
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.71	0.55
5:P:128:ARG:HG2	9:P:4300:HOH:O	2.04	0.55
5:P:156:VAL:HB	9:P:5172:HOH:O	2.05	0.55
5:P:404:ALA:O	5:P:408:LEU:HD23	2.06	0.55
1:A:141:GLU:HG3	9:A:9639:HOH:O	2.07	0.55
1:A:198:ARG:HH21	2:C:932:GLU:HG2	1.71	0.55
3:D:1496:GLU:OE1	3:D:1500:LYS:HE3	2.06	0.55
3:D:178:LEU:HD12	3:D:200:ASP:HB2	1.89	0.55
3:D:187:LYS:CE	3:D:213:VAL:HG12	2.37	0.55
3:D:475:LYS:HA	3:D:478:LEU:HG	1.87	0.55
3:D:93:ILE:HG12	3:D:548:ILE:HD12	1.88	0.55
5:F:147:LEU:HD22	9:F:9955:HOH:O	2.05	0.55
2:M:1016:ILE:HG23	3:N:526:PRO:HG2	1.88	0.55
2:M:209:ARG:O	2:M:213:ALA:HB2	2.06	0.55
2:M:142:ARG:NH1	2:M:325:ILE:HG12	2.21	0.55
2:M:460:ARG:HG3	9:M:9945:HOH:O	2.06	0.55
2:M:495:THR:H	2:M:530:GLU:CD	2.09	0.55
2:M:671:ASN:ND2	2:M:993:PHE:HB2	2.21	0.55
3:N:1066:THR:CG2	3:N:1069:GLU:H	2.19	0.55
3:N:1428:ALA:O	3:N:1431:THR:HG23	2.05	0.55
3:N:397:LYS:HD3	9:N:2726:HOH:O	2.06	0.55
3:N:843:PHE:HE1	3:N:864:VAL:HG11	1.70	0.55
3:N:983:LEU:HA	3:N:987:GLU:OE2	2.06	0.55
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.36	0.55
5:P:291:ILE:HG13	9:P:4835:HOH:O	2.07	0.55
5:P:85:LEU:HB3	9:P:4001:HOH:O	2.06	0.55
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.87	0.55
1:A:149:GLY:O	1:A:171:PHE:HB2	2.06	0.55
2:C:437:ARG:O	2:C:467:ILE:HD13	2.07	0.55
2:C:41:ASN:O	2:C:46:ALA:HB2	2.07	0.55
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.87	0.55
3:D:462:GLN:NE2	3:D:513:ILE:HB	2.22	0.55
3:D:844:ALA:O	3:D:867:ARG:HB3	2.05	0.55
1:L:27:PRO:O	1:L:28:LEU:HD23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:29:GLU:N	9:L:3706:HOH:O	2.39	0.55
2:M:267:TYR:CD1	2:M:272:ALA:HB1	2.41	0.55
2:M:660:ALA:HB1	2:M:667:ALA:O	2.05	0.55
2:M:676:ILE:O	2:M:676:ILE:HG23	2.06	0.55
2:M:880:MET:HE2	9:M:2314:HOH:O	2.06	0.55
2:M:976:ASP:CB	2:M:979:THR:HG22	2.37	0.55
2:M:577:PRO:HG3	2:M:993:PHE:CE2	2.42	0.55
3:N:1051:GLU:HG2	9:N:9879:HOH:O	2.06	0.55
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.36	0.55
5:P:299:TRP:HE3	9:P:4374:HOH:O	1.90	0.55
1:A:88:ARG:HD3	9:A:9724:HOH:O	2.06	0.55
2:C:50:GLU:HA	2:C:266:ARG:HH11	1.71	0.55
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.87	0.55
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.42	0.55
2:C:69:LEU:HB2	2:C:97:ARG:HB2	1.87	0.55
3:D:1432:LYS:HZ1	3:D:1460:ILE:HG13	1.71	0.55
3:D:493:ARG:HH22	3:D:1389:LEU:CG	2.17	0.55
3:D:493:ARG:HG2	3:D:493:ARG:NH1	2.20	0.55
3:D:631:ILE:HG12	3:D:743:ASP:O	2.07	0.55
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.88	0.55
4:E:13:VAL:HG12	4:E:75:PHE:CE1	2.42	0.55
1:L:143:ARG:NH1	1:L:158:ILE:HD12	2.22	0.55
2:M:798:GLY:H	2:M:827:VAL:CG1	2.20	0.55
3:N:61:GLY:CA	3:N:64:LYS:HE3	2.35	0.55
3:N:756:GLN:O	3:N:760:ARG:HG2	2.06	0.55
3:N:984:THR:HG23	3:N:986:ARG:H	1.71	0.55
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.89	0.55
2:C:199:VAL:HG13	2:C:235:LEU:CD2	2.36	0.55
2:C:413:LEU:HD21	2:C:448:ASN:HD21	1.72	0.55
2:C:569:VAL:HG23	2:C:635:THR:HG22	1.87	0.55
3:D:1196:THR:HG23	9:D:9568:HOH:O	2.06	0.55
3:D:36:THR:C	3:D:38:LYS:H	2.10	0.55
3:D:592:THR:N	3:D:600:LEU:HD21	2.21	0.55
3:D:603:LEU:O	3:D:606:ILE:HB	2.07	0.55
3:D:634:GLY:O	3:D:637:LEU:HB3	2.05	0.55
3:D:654:LYS:HD3	3:D:674:ARG:HH22	1.70	0.55
3:D:692:GLU:HG2	3:D:720:LEU:HD13	1.89	0.55
3:D:940:THR:O	3:D:943:THR:HG23	2.06	0.55
1:K:107:LYS:HE2	9:K:4981:HOH:O	2.07	0.55
9:K:6366:HOH:O	1:L:219:ARG:HD2	2.07	0.55
2:M:269:LEU:HD12	2:M:288:ARG:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.89	0.55
3:N:58:CYS:SG	3:N:59:ALA:N	2.79	0.55
3:N:634:GLY:O	3:N:637:LEU:HB3	2.07	0.55
3:N:679:ARG:NH1	3:N:681:ARG:HD2	2.22	0.55
2:M:984:GLU:OE1	3:N:945:SER:HA	2.06	0.55
5:P:139:ALA:HA	5:P:142:ARG:HG3	1.88	0.55
5:P:220:LEU:O	5:P:224:VAL:HG23	2.05	0.55
1:A:122:ILE:HB	9:A:9608:HOH:O	2.07	0.55
2:C:134:ARG:HH21	2:C:394:PHE:N	2.03	0.55
2:C:692:GLU:HG2	2:C:696:LYS:CE	2.33	0.55
2:C:769:PRO:HB3	9:F:9661:HOH:O	2.07	0.55
3:D:119:SER:H	3:D:123:LEU:HB2	1.71	0.55
3:D:591:VAL:HG12	3:D:592:THR:O	2.06	0.55
3:D:829:VAL:HG21	9:D:9902:HOH:O	2.07	0.55
3:D:957:PRO:HB3	3:D:959:GLU:OE1	2.05	0.55
1:K:41:ARG:O	1:K:45:LEU:HD12	2.05	0.55
2:M:167:LYS:HD2	2:M:168:ARG:HE	1.72	0.55
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.89	0.55
2:M:395:LYS:HE2	2:M:397:GLU:OE1	2.06	0.55
2:M:430:VAL:HG13	2:M:430:VAL:O	2.06	0.55
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.36	0.55
3:N:105:VAL:HG21	3:N:128:TYR:CE2	2.38	0.55
3:N:1377:LYS:HA	9:N:9789:HOH:O	2.06	0.55
3:N:216:VAL:HG13	9:N:2148:HOH:O	2.06	0.55
3:N:907:GLU:O	3:N:911:LEU:HD13	2.06	0.55
4:O:84:ARG:CZ	4:O:84:ARG:HB2	2.37	0.55
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.71	0.55
2:C:139:GLN:HB3	2:C:334:ARG:CD	2.36	0.55
2:C:437:ARG:NH2	2:C:469:THR:HG22	2.22	0.55
2:C:877:PRO:HG2	3:D:1023:MET:SD	2.46	0.55
3:D:1144:LEU:HA	3:D:1147:ARG:HG3	1.87	0.55
3:D:379:ALA:HB3	9:D:2344:HOH:O	2.05	0.55
2:M:11:GLU:HG2	9:M:9823:HOH:O	2.06	0.55
2:M:404:LEU:HA	2:M:407:LYS:CD	2.31	0.55
2:M:625:LEU:HD22	2:M:639:GLN:HB2	1.89	0.55
3:N:1194:CYS:HB3	3:N:1373:ARG:NH2	2.22	0.55
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.72	0.55
3:N:15:PRO:HG3	9:N:9590:HOH:O	2.07	0.55
3:N:86:ARG:HG2	3:N:523:ASP:OD1	2.07	0.55
2:M:1043:TYR:HA	3:N:710:ARG:HH21	1.70	0.55
3:N:814:ALA:HB3	9:N:9595:HOH:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.88	0.55
2:C:1008:ARG:HE	2:C:1029:GLY:N	2.05	0.55
2:C:1008:ARG:NH2	2:C:1028:GLY:HA2	2.16	0.55
2:C:502:PRO:HG2	9:C:2171:HOH:O	2.07	0.55
2:C:72:ARG:HG3	2:C:72:ARG:HH11	1.71	0.55
2:C:80:GLN:HG2	2:C:90:TYR:HE2	1.72	0.55
3:D:119:SER:N	3:D:123:LEU:HB2	2.22	0.55
3:D:645:PRO:HG3	3:D:725:SER:O	2.06	0.55
3:D:704:ARG:HH11	3:D:738:ALA:HA	1.71	0.55
1:L:92:PRO:HD3	9:L:4614:HOH:O	2.05	0.55
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.27	0.55
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.88	0.55
2:M:41:ASN:O	2:M:46:ALA:HB2	2.06	0.55
2:M:56:GLU:HB2	2:M:64:LEU:HD23	1.89	0.55
2:M:584:GLU:O	2:M:588:VAL:HG13	2.06	0.55
3:N:1036:ARG:HH21	3:N:1042:ARG:CA	2.20	0.55
3:N:1118:ILE:CG2	3:N:1346:ARG:HH12	2.19	0.55
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.41	0.55
1:A:125:PRO:HA	9:A:9608:HOH:O	2.06	0.55
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.88	0.55
2:C:1001:VAL:HG23	9:C:2003:HOH:O	2.06	0.55
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.07	0.55
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.89	0.55
2:C:455:LEU:H	2:C:455:LEU:HD23	1.72	0.55
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.89	0.55
3:D:56:TYR:CE2	3:D:66:GLN:HA	2.42	0.55
3:D:570:GLU:HB2	5:F:214:GLN:NE2	2.22	0.55
4:E:26:ARG:NH1	4:E:30:LEU:HD13	2.21	0.55
5:F:163:LEU:HB3	5:F:174:LEU:CG	2.37	0.55
2:M:1008:ARG:HH21	2:M:1029:GLY:H	1.55	0.55
2:M:604:ALA:HB3	2:M:612:VAL:O	2.07	0.55
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.07	0.55
3:N:481:MET:HB3	3:N:1388:ARG:HH21	1.71	0.55
4:O:33:HIS:CG	4:O:89:MET:HG2	2.42	0.55
5:P:192:LEU:O	5:P:196:VAL:HG23	2.07	0.55
1:A:138:LEU:HG	9:A:9590:HOH:O	2.07	0.55
1:B:14:ARG:HH22	1:B:24:VAL:HG21	1.72	0.55
2:C:10:ARG:HA	2:C:10:ARG:NE	2.21	0.55
2:C:234:ALA:HB3	9:C:2169:HOH:O	2.05	0.55
2:C:335:THR:HG21	9:C:9892:HOH:O	2.06	0.55
2:C:578:VAL:HA	2:C:900:ARG:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.21	0.55
3:D:1455:LYS:C	3:D:1455:LYS:HD3	2.28	0.55
3:D:491:LYS:HD3	3:D:492:ALA:N	2.22	0.55
3:D:570:GLU:OE2	5:F:214:GLN:HG3	2.05	0.55
5:F:166:LEU:O	5:F:171:LYS:HB2	2.06	0.55
2:M:1054:THR:HG22	2:M:1059:ASP:CB	2.33	0.55
3:N:1384:PRO:HD2	9:N:2419:HOH:O	2.06	0.55
3:D:633:VAL:C	3:D:635:PRO:HD3	2.28	0.54
2:M:367:LEU:HD23	2:M:371:LYS:HZ2	1.71	0.54
2:M:724:ARG:HG3	2:M:741:GLY:N	2.21	0.54
3:N:1353:GLN:HE21	3:N:1357:ARG:HE	1.54	0.54
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.37	0.54
9:M:9708:HOH:O	3:N:1472:ILE:HG21	2.07	0.54
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.88	0.54
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.42	0.54
1:B:184:THR:O	1:B:192:LEU:HB2	2.07	0.54
2:C:100:LEU:HD12	2:C:101:ILE:O	2.07	0.54
2:C:115:LEU:HD22	2:C:373:VAL:CG1	2.34	0.54
2:C:11:GLU:HG2	2:C:537:LYS:NZ	2.21	0.54
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.89	0.54
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.28	0.54
2:C:294:GLU:HB2	9:C:2414:HOH:O	2.06	0.54
2:C:355:VAL:HG21	9:C:9583:HOH:O	2.07	0.54
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.20	0.54
2:C:722:ILE:CD1	2:C:823:VAL:HG21	2.37	0.54
2:C:904:PRO:HA	9:C:9895:HOH:O	2.07	0.54
3:D:956:ILE:HG12	3:D:1039:CYS:O	2.06	0.54
3:D:1068:LEU:HD23	3:D:1072:ILE:HG12	1.88	0.54
3:D:1204:CYS:HB3	9:D:9616:HOH:O	2.07	0.54
3:D:397:LYS:HZ3	3:D:399:ARG:HH21	1.54	0.54
3:D:417:PRO:HD2	9:D:2246:HOH:O	2.07	0.54
3:D:525:ARG:HA	3:D:538:SER:CB	2.37	0.54
3:D:599:PRO:HB2	9:D:2237:HOH:O	2.07	0.54
3:D:865:THR:HG23	3:D:874:GLU:HG2	1.89	0.54
3:D:895:VAL:O	3:D:899:LEU:HG	2.07	0.54
4:E:54:LEU:HG	4:E:58:PRO:CG	2.37	0.54
5:F:195:VAL:HG22	5:F:243:ILE:HD13	1.88	0.54
1:K:91:ASN:H	1:K:94:LEU:HD12	1.72	0.54
2:M:218:VAL:O	2:M:221:LEU:HG	2.08	0.54
2:M:50:GLU:HA	2:M:266:ARG:NH1	2.21	0.54
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:937:ASP:HB3	2:M:940:GLU:H	1.72	0.54
3:N:1087:ARG:HA	3:N:1090:ASP:HB2	1.87	0.54
3:N:516:ALA:O	3:N:518:PRO:HD3	2.07	0.54
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.42	0.54
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.36	0.54
2:C:136:ILE:CG2	2:C:336:VAL:HG13	2.37	0.54
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.32	0.54
2:C:598:GLU:O	2:C:651:LYS:HG3	2.07	0.54
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.36	0.54
2:C:70:GLU:HB3	9:C:9739:HOH:O	2.06	0.54
2:C:498:GLN:CD	3:D:1068:LEU:HD12	2.27	0.54
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.42	0.54
3:D:1405:GLU:HA	9:D:9722:HOH:O	2.05	0.54
3:D:145:VAL:HG11	9:D:9838:HOH:O	2.07	0.54
3:D:1459:LEU:HB2	3:D:1470:ARG:HH12	1.73	0.54
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.89	0.54
3:D:186:VAL:HG11	3:D:213:VAL:HB	1.89	0.54
3:D:984:THR:HG22	3:D:987:GLU:H	1.71	0.54
3:D:996:TRP:CG	3:D:1056:PRO:HG2	2.42	0.54
3:D:998:GLU:HA	9:D:2134:HOH:O	2.07	0.54
5:F:92:PRO:HG3	9:F:9899:HOH:O	2.06	0.54
1:K:124:ASN:OD1	1:K:127:LEU:HB3	2.07	0.54
1:K:149:GLY:O	1:K:171:PHE:HB2	2.06	0.54
2:M:1049:LEU:O	2:M:1053:LEU:HG	2.07	0.54
2:M:875:GLY:HA2	9:M:9982:HOH:O	2.08	0.54
3:N:1045:MET:HB3	3:N:1072:ILE:HG22	1.89	0.54
3:N:199:LEU:HD21	9:N:2547:HOH:O	2.07	0.54
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.89	0.54
1:A:23:PHE:CD1	1:A:211:LEU:HD23	2.43	0.54
1:A:86:VAL:HG13	1:A:124:ASN:HB2	1.90	0.54
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.88	0.54
2:C:352:ALA:HB2	9:C:2449:HOH:O	2.08	0.54
2:C:360:LEU:HD12	9:C:9932:HOH:O	2.06	0.54
2:C:604:ALA:HB3	2:C:612:VAL:O	2.07	0.54
2:C:676:ILE:O	2:C:676:ILE:HG23	2.08	0.54
2:C:724:ARG:O	2:C:734:LEU:HD11	2.08	0.54
3:D:126:VAL:O	3:D:132:TYR:HD1	1.91	0.54
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.43	0.54
3:D:1385:GLY:HA2	9:D:2643:HOH:O	2.07	0.54
3:D:1381:VAL:HG23	3:D:1391:GLU:O	2.08	0.54
3:D:1460:ILE:HB	9:D:2209:HOH:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:5:LYS:HE2	9:L:5741:HOH:O	2.08	0.54
2:M:172:ILE:H	2:M:172:ILE:HD12	1.72	0.54
2:M:276:LYS:O	2:M:280:LYS:HB2	2.07	0.54
2:M:904:PRO:HG3	9:M:9570:HOH:O	2.06	0.54
3:N:1289:LYS:HD3	9:N:9605:HOH:O	2.07	0.54
3:N:430:ASP:HB3	9:N:9974:HOH:O	2.07	0.54
3:N:861:GLN:H	3:N:861:GLN:CD	2.11	0.54
1:A:18:ARG:O	1:A:207:PRO:HD3	2.06	0.54
2:C:135:VAL:CG1	2:C:407:LYS:HA	2.33	0.54
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.43	0.54
3:D:660:LYS:HG2	3:D:694:VAL:HG22	1.89	0.54
2:C:885:ILE:HD12	3:D:949:ILE:HB	1.90	0.54
5:F:123:ASP:H	5:F:126:LEU:HD22	1.72	0.54
2:M:1111:ILE:HD12	2:M:1112:PHE:N	2.15	0.54
2:M:213:ALA:HB1	9:M:2130:HOH:O	2.07	0.54
2:M:622:GLU:HG3	9:M:2445:HOH:O	2.07	0.54
2:M:738:ASP:HB3	2:M:744:ARG:HB3	1.89	0.54
3:N:36:THR:C	3:N:38:LYS:H	2.10	0.54
3:N:602:SER:O	3:N:606:ILE:HG12	2.07	0.54
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.42	0.54
5:P:273:ARG:HD3	9:P:6834:HOH:O	2.07	0.54
1:B:154:GLU:HB2	9:B:9819:HOH:O	2.07	0.54
2:C:204:GLN:NE2	2:C:222:MET:HA	2.22	0.54
2:C:724:ARG:NE	2:C:737:LEU:O	2.40	0.54
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.43	0.54
3:D:1122:LEU:HD23	3:D:1178:ALA:HB2	1.89	0.54
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.73	0.54
3:D:147:VAL:HG22	9:D:9643:HOH:O	2.07	0.54
3:D:169:TYR:N	3:D:170:PRO:HD2	2.23	0.54
3:D:474:GLU:O	3:D:478:LEU:HG	2.08	0.54
3:D:560:GLN:HG2	5:F:218:GLN:NE2	2.19	0.54
3:D:826:PRO:HB3	3:D:828:LYS:NZ	2.23	0.54
3:D:842:VAL:HG13	9:D:9694:HOH:O	2.08	0.54
5:F:412:GLU:HG3	5:F:418:LEU:HD22	1.90	0.54
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.37	0.54
1:K:110:LYS:CB	1:K:112:ARG:HD3	2.36	0.54
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.37	0.54
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.47	0.54
2:M:1005:MET:HE1	3:N:645:PRO:HB2	1.88	0.54
2:M:164:PRO:HB2	9:M:2243:HOH:O	2.07	0.54
2:M:708:TYR:HD1	2:M:708:TYR:H	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:133:ILE:HG22	3:N:455:ARG:N	2.22	0.54
3:N:1495:ILE:HG23	9:N:2275:HOH:O	2.07	0.54
3:N:491:LYS:HG3	9:N:9735:HOH:O	2.07	0.54
2:C:859:PRO:O	2:C:867:VAL:HG22	2.07	0.54
2:C:884:GLN:HG3	2:C:885:ILE:HD13	1.90	0.54
3:D:139:GLY:H	3:D:147:VAL:HG21	1.71	0.54
3:D:70:GLY:H	3:D:71:LYS:HE3	1.71	0.54
3:D:761:ILE:HD13	4:E:20:THR:HA	1.90	0.54
5:F:132:ARG:O	5:F:136:LEU:HG	2.07	0.54
1:K:80:LEU:HB3	9:K:5934:HOH:O	2.06	0.54
2:M:1014:SER:HB3	2:M:1017:THR:O	2.07	0.54
2:M:318:PRO:HD3	9:M:2029:HOH:O	2.06	0.54
2:M:22:GLN:CD	2:M:336:VAL:HG21	2.28	0.54
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.23	0.54
3:N:770:LEU:HD11	3:N:919:PHE:CE2	2.42	0.54
5:P:274:THR:O	5:P:278:LEU:HG	2.07	0.54
3:D:1249:ALA:HA	9:D:2205:HOH:O	2.06	0.54
3:D:703:ASN:ND2	3:D:704:ARG:H	2.05	0.54
9:C:9869:HOH:O	5:F:378:GLY:HA2	2.07	0.54
2:M:145:GLY:O	2:M:163:ILE:HG23	2.08	0.54
2:M:282:GLY:HA3	9:M:2102:HOH:O	2.08	0.54
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.89	0.54
3:N:850:LEU:O	3:N:853:VAL:HB	2.07	0.54
4:O:29:GLN:HB2	4:O:33:HIS:CD2	2.43	0.54
5:P:318:GLU:HB2	9:P:6126:HOH:O	2.08	0.54
1:A:28:LEU:HD13	1:A:32:PHE:HB3	1.90	0.54
1:B:18:ARG:O	1:B:207:PRO:HD3	2.08	0.54
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.90	0.54
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.90	0.54
2:C:5:ARG:HB3	2:C:902:ILE:HB	1.90	0.54
2:C:64:LEU:CD1	2:C:100:LEU:HD13	2.38	0.54
2:C:774:LEU:HG	2:C:775:ARG:NH1	2.21	0.54
2:C:889:HIS:CD2	2:C:970:GLY:HA3	2.43	0.54
3:D:1047:LYS:HG2	3:D:1053:PHE:CE2	2.43	0.54
3:D:1269:LYS:HB3	9:D:2172:HOH:O	2.07	0.54
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.90	0.54
1:K:91:ASN:HB3	9:K:3958:HOH:O	2.08	0.54
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.38	0.54
2:M:621:VAL:HG22	9:M:9943:HOH:O	2.07	0.54
2:M:640:ARG:HD3	2:M:642:ARG:NH2	2.23	0.54
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1404:ASN:HD22	3:N:1408:ILE:HD12	1.72	0.54
3:N:1420:LEU:HD12	3:N:1421:LEU:N	2.22	0.54
3:N:512:MET:CE	3:N:1452:ILE:HD11	2.38	0.54
3:N:139:GLY:O	3:N:147:VAL:HB	2.07	0.54
3:N:553:ARG:HD2	3:N:570:GLU:OE2	2.08	0.54
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.90	0.54
5:P:415:THR:O	5:P:417:LYS:HG3	2.08	0.54
2:C:690:ILE:HG22	2:C:852:ILE:HA	1.89	0.54
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.11	0.54
3:D:613:ARG:HG3	9:D:9563:HOH:O	2.08	0.54
5:F:100:VAL:HG12	5:F:104:ARG:HH21	1.72	0.54
1:L:132:LEU:HD21	1:L:136:GLY:O	2.08	0.54
1:L:81:ASN:HB2	9:L:3720:HOH:O	2.08	0.54
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.43	0.54
2:M:729:LEU:HB3	9:M:2363:HOH:O	2.08	0.54
5:P:132:ARG:O	5:P:136:LEU:HG	2.08	0.54
1:B:57:TYR:CE2	1:B:161:ARG:HG2	2.43	0.53
2:C:66:LEU:HD13	2:C:372:LEU:CD2	2.37	0.53
2:C:426:ASP:OD1	2:C:427:VAL:HG23	2.07	0.53
2:C:586:ARG:HG2	9:C:9765:HOH:O	2.07	0.53
2:C:747:ALA:HA	9:C:9611:HOH:O	2.07	0.53
2:C:798:GLY:HA3	2:C:828:ALA:O	2.08	0.53
3:D:1269:LYS:HD2	9:D:9761:HOH:O	2.08	0.53
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.26	0.53
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.90	0.53
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.89	0.53
9:B:9647:HOH:O	3:D:842:VAL:HB	2.08	0.53
5:F:325:LYS:HB3	9:F:9864:HOH:O	2.07	0.53
5:F:363:GLU:HA	5:F:367:MET:HG2	1.90	0.53
2:M:173:ASP:O	2:M:184:MET:HA	2.08	0.53
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.90	0.53
2:M:328:LEU:HD22	2:M:433:THR:HG22	1.90	0.53
2:M:693:GLU:OE1	2:M:696:LYS:HD2	2.08	0.53
3:N:1034:GLN:HA	3:N:1037:GLN:HE21	1.72	0.53
3:N:119:SER:N	3:N:123:LEU:HB2	2.23	0.53
3:N:1432:LYS:CD	3:N:1433:SER:H	2.22	0.53
3:N:787:LEU:HD11	3:N:947:ILE:HG12	1.89	0.53
3:N:868:TYR:HB3	9:N:2374:HOH:O	2.07	0.53
5:P:100:VAL:CG1	5:P:104:ARG:HH21	2.21	0.53
5:P:399:GLN:HA	9:P:5295:HOH:O	2.09	0.53
1:B:211:LEU:O	1:B:215:VAL:HG13	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:115:LEU:HA	2:C:375:SER:HB3	1.89	0.53
2:C:444:PRO:HG2	2:C:452:ILE:CD1	2.38	0.53
2:C:583:LEU:HG	2:C:586:ARG:HB2	1.89	0.53
2:C:660:ALA:HB1	2:C:667:ALA:O	2.07	0.53
3:D:1168:MET:HE1	3:D:1171:VAL:HB	1.90	0.53
3:D:117:ASP:HA	9:D:9715:HOH:O	2.07	0.53
3:D:1246:VAL:HG23	9:D:2655:HOH:O	2.08	0.53
2:C:1095:LEU:HD23	3:D:582:LEU:CD2	2.38	0.53
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.73	0.53
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.73	0.53
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.38	0.53
2:M:137:VAL:HG22	2:M:391:LEU:O	2.07	0.53
2:M:332:ARG:NH2	2:M:464:LEU:HD11	2.17	0.53
2:M:47:ALA:HB1	9:M:2250:HOH:O	2.07	0.53
3:N:243:ALA:HA	9:N:2678:HOH:O	2.07	0.53
3:N:52:PRO:HB2	3:N:80:VAL:CG1	2.24	0.53
3:N:958:GLU:HG2	9:N:2414:HOH:O	2.09	0.53
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.38	0.53
2:C:118:ILE:H	2:C:118:ILE:HD12	1.73	0.53
2:C:637:LEU:HB3	9:C:2008:HOH:O	2.09	0.53
2:C:983:ILE:HG21	2:C:987:ILE:CD1	2.36	0.53
3:D:178:LEU:HD11	9:D:2125:HOH:O	2.08	0.53
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.08	0.53
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.73	0.53
3:D:601:ARG:NE	3:D:606:ILE:HD13	2.23	0.53
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.89	0.53
3:D:875:THR:HB	9:D:9915:HOH:O	2.07	0.53
2:M:147:TYR:HB3	2:M:323:ASP:OD2	2.07	0.53
2:M:351:LEU:HD12	9:M:9797:HOH:O	2.09	0.53
2:M:779:GLY:HA3	9:M:9697:HOH:O	2.09	0.53
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.43	0.53
3:N:1101:VAL:HG22	3:N:1428:ALA:HB2	1.90	0.53
3:N:661:MET:CE	3:N:673:ALA:HB1	2.39	0.53
3:N:781:PRO:HG2	3:N:911:LEU:HD23	1.89	0.53
3:N:920:LEU:HD21	9:N:9647:HOH:O	2.07	0.53
5:P:396:ARG:HH11	5:P:399:GLN:NE2	2.06	0.53
2:C:224:GLU:HG3	9:C:9602:HOH:O	2.06	0.53
3:D:561:GLY:HA3	5:F:184:ARG:HH12	1.74	0.53
3:D:65:ARG:HA	9:D:9875:HOH:O	2.09	0.53
3:D:699:VAL:HB	3:D:716:PHE:O	2.08	0.53
5:F:126:LEU:O	5:F:130:VAL:HG23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:19:GLU:HG3	1:L:201:THR:O	2.08	0.53
3:N:1114:THR:HG23	3:N:1114:THR:O	2.09	0.53
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.38	0.53
3:N:4:GLU:HG2	9:N:2118:HOH:O	2.07	0.53
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.89	0.53
3:N:822:ALA:HB3	9:N:9584:HOH:O	2.06	0.53
5:P:119:ILE:HG22	9:P:6420:HOH:O	2.09	0.53
9:M:9851:HOH:O	5:P:373:LYS:HB3	2.08	0.53
1:A:156:HIS:CD2	1:A:157:GLY:N	2.76	0.53
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.91	0.53
1:A:211:LEU:O	1:A:215:VAL:HG13	2.08	0.53
2:C:1081:VAL:HB	2:C:1086:ARG:HE	1.74	0.53
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.74	0.53
3:D:1445:HIS:HB2	9:D:9607:HOH:O	2.07	0.53
3:D:652:LEU:HB3	3:D:653:PHE:HD1	1.72	0.53
3:D:668:PRO:HD2	3:D:672:ALA:CB	2.39	0.53
5:F:82:ARG:HB3	9:F:9818:HOH:O	2.09	0.53
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.09	0.53
2:M:134:ARG:HH21	2:M:393:GLN:CA	2.20	0.53
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.89	0.53
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.91	0.53
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.38	0.53
3:N:639:LEU:HB2	9:N:9843:HOH:O	2.07	0.53
5:P:163:LEU:HB3	5:P:174:LEU:CD1	2.38	0.53
1:A:81:ASN:O	1:A:84:GLU:HB2	2.08	0.53
2:C:1030:GLN:HE22	3:D:628:ARG:HH21	1.55	0.53
2:C:1085:PHE:HE1	2:C:1111:ILE:HD13	1.72	0.53
2:C:271:GLU:HG2	9:C:2393:HOH:O	2.08	0.53
2:C:193:LEU:HD23	2:C:307:LEU:HD13	1.90	0.53
2:C:505:GLY:N	9:C:9917:HOH:O	2.42	0.53
3:D:1131:SER:HB3	9:D:2678:HOH:O	2.07	0.53
3:D:122:GLU:O	3:D:126:VAL:HG23	2.09	0.53
3:D:1377:LYS:O	3:D:1395:LEU:N	2.37	0.53
3:D:1393:GLN:HB2	3:D:1398:TRP:CZ2	2.43	0.53
3:D:150:ARG:HG3	3:D:150:ARG:NH1	2.23	0.53
3:D:400:VAL:HG21	3:D:441:ARG:HH11	1.72	0.53
1:K:89:PHE:CB	1:K:94:LEU:HD13	2.38	0.53
2:M:198:ARG:NH2	2:M:203:ASP:HB3	2.24	0.53
2:M:605:LYS:HD3	2:M:610:ARG:NH2	2.23	0.53
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.91	0.53
3:N:1337:GLU:OE1	3:N:1337:GLU:HA	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:545:ARG:CZ	5:P:257:THR:HA	2.37	0.53
1:L:65:PHE:HD1	3:N:813:LEU:HD13	1.73	0.53
1:B:101:LEU:HD22	9:B:9576:HOH:O	2.09	0.53
1:B:99:LEU:HG	1:B:114:PHE:CD2	2.44	0.53
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.73	0.53
2:C:831:ARG:HG2	2:C:831:ARG:HH11	1.74	0.53
3:D:1236:LEU:HD23	3:D:1359:GLN:NE2	2.24	0.53
3:D:1258:ARG:HG2	3:D:1355:VAL:HG21	1.90	0.53
3:D:102:ILE:HD12	3:D:579:ASP:CG	2.29	0.53
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.90	0.53
1:K:103:ALA:HB1	1:K:107:LYS:HD3	1.91	0.53
1:K:212:ASN:O	1:K:215:VAL:HG22	2.08	0.53
1:K:78:ILE:HA	1:K:81:ASN:ND2	2.24	0.53
2:M:11:GLU:HA	9:M:2470:HOH:O	2.09	0.53
2:M:346:VAL:O	2:M:350:ARG:HG2	2.09	0.53
2:M:841:ASN:HD22	2:M:841:ASN:C	2.10	0.53
3:N:1063:GLU:HG3	3:N:1064:GLY:N	2.23	0.53
3:N:397:LYS:CE	3:N:399:ARG:HE	2.22	0.53
3:N:480:GLU:O	3:N:484:PRO:HD2	2.09	0.53
4:O:37:ASN:HA	4:O:93:TYR:CE2	2.43	0.53
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.43	0.53
2:C:160:ALA:O	2:C:173:ASP:HA	2.09	0.53
2:C:176:VAL:C	2:C:178:PRO:HD3	2.28	0.53
2:C:237:ARG:HG2	9:C:2366:HOH:O	2.08	0.53
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.91	0.53
2:C:535:SER:H	2:C:538:GLN:NE2	2.07	0.53
2:C:924:VAL:HA	9:C:2430:HOH:O	2.09	0.53
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.72	0.53
3:D:1083:ASP:HB3	3:D:1087:ARG:NH2	2.24	0.53
3:D:1383:ASP:HB3	3:D:1416:ALA:H	1.73	0.53
3:D:422:ALA:HA	9:D:2456:HOH:O	2.08	0.53
3:D:466:LYS:HD3	9:D:2238:HOH:O	2.09	0.53
3:D:563:PRO:HG2	3:D:566:ILE:HD12	1.89	0.53
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.37	0.53
3:D:616:GLN:OE1	3:D:619:LEU:HB3	2.09	0.53
3:D:667:ALA:HB2	3:D:676:MET:CE	2.38	0.53
3:D:68:PHE:HA	3:D:71:LYS:HZ2	1.74	0.53
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.24	0.53
5:F:361:LEU:HD23	5:F:362:SER:N	2.20	0.53
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.91	0.53
1:L:186:LEU:O	1:L:186:LEU:HD23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1043:TYR:HA	3:N:710:ARG:NH2	2.24	0.53
2:M:639:GLN:HG2	9:M:9781:HOH:O	2.08	0.53
2:M:68:PHE:HZ	2:M:71:TYR:HB3	1.73	0.53
2:M:798:GLY:H	2:M:827:VAL:HG11	1.74	0.53
3:N:1304:LYS:HB3	9:N:9605:HOH:O	2.09	0.53
3:N:424:GLY:HA3	9:N:9639:HOH:O	2.09	0.53
4:O:87:LYS:HE2	4:O:91:ARG:NH2	2.23	0.53
5:P:109:GLY:O	5:P:113:ILE:HG13	2.09	0.53
5:P:351:SER:HA	9:P:5760:HOH:O	2.09	0.53
2:C:1083:GLU:OE1	2:C:1086:ARG:HD2	2.09	0.53
2:C:333:ILE:O	2:C:465:GLY:HA3	2.08	0.53
3:D:1136:LYS:HA	9:D:2241:HOH:O	2.09	0.53
3:D:1233:GLY:HA2	3:D:1236:LEU:HG	1.90	0.53
3:D:30:GLU:HB3	3:D:40:GLU:CB	2.39	0.53
3:D:209:ARG:HH21	3:D:397:LYS:HG3	1.72	0.53
3:D:817:GLU:HG2	3:D:840:LYS:NZ	2.24	0.53
1:K:156:HIS:CD2	1:K:157:GLY:N	2.77	0.53
2:M:250:ARG:HB2	9:M:2343:HOH:O	2.08	0.53
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.91	0.53
2:M:584:GLU:CD	2:M:584:GLU:H	2.11	0.53
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.91	0.53
3:N:210:ARG:NH1	3:N:398:ALA:HB3	2.18	0.53
5:P:302:LYS:HG3	5:P:303:ARG:N	2.24	0.53
5:P:328:PHE:O	5:P:331:ASP:N	2.34	0.53
5:P:392:VAL:HG22	9:P:5988:HOH:O	2.09	0.53
5:P:404:ALA:HA	9:P:5252:HOH:O	2.09	0.53
5:P:417:LYS:HD3	9:P:6175:HOH:O	2.09	0.53
1:B:73:GLU:HB3	1:B:77:GLU:HG2	1.91	0.53
2:C:1056:LYS:HE3	3:D:751:LEU:CD1	2.39	0.53
2:C:313:LEU:CA	2:C:321:GLU:HG3	2.37	0.53
2:C:325:ILE:HG22	9:C:9742:HOH:O	2.08	0.53
5:F:117:SER:OG	5:F:124:PRO:HG3	2.09	0.53
5:F:187:LEU:HD23	5:F:191:ASN:HD21	1.74	0.53
2:M:168:ARG:HB2	9:M:9850:HOH:O	2.09	0.53
2:M:405:ARG:HH22	2:M:563:ASN:HD21	1.56	0.53
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.38	0.53
2:M:757:GLY:HA2	2:M:789:SER:HB3	1.91	0.53
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	1.92	0.53
3:N:1236:LEU:HD11	3:N:1356:TYR:CE1	2.44	0.53
3:N:1323:GLN:HA	9:N:9758:HOH:O	2.09	0.53
3:N:1492:LEU:HB3	3:N:1493:LYS:HE2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:969:ARG:O	3:N:972:LEU:HB3	2.08	0.53
5:P:269:ASN:HB3	5:P:273:ARG:HH21	1.73	0.53
1:A:86:VAL:HG21	1:A:202:ASP:O	2.08	0.52
2:C:267:TYR:HE2	9:C:9988:HOH:O	1.92	0.52
2:C:567:GLN:HB2	2:C:997:LEU:CD2	2.39	0.52
2:C:630:ARG:HG2	9:C:2367:HOH:O	2.09	0.52
2:C:396:ASP:HA	2:C:633:GLN:HE22	1.73	0.52
3:D:1357:ARG:NH1	9:D:2523:HOH:O	2.42	0.52
3:D:480:GLU:O	3:D:484:PRO:HD2	2.08	0.52
3:D:809:PRO:O	3:D:812:ALA:HB3	2.08	0.52
1:K:39:PRO:O	1:K:43:ILE:HG12	2.09	0.52
1:L:63:HIS:HB3	9:L:5868:HOH:O	2.09	0.52
2:M:708:TYR:N	2:M:708:TYR:CD1	2.77	0.52
3:N:1087:ARG:HG3	3:N:1238:MET:HB2	1.90	0.52
3:N:1136:LYS:O	3:N:1140:ILE:HG13	2.10	0.52
3:N:1435:LEU:HG	3:N:1467:ILE:HD12	1.90	0.52
3:N:183:GLU:O	3:N:186:VAL:HG12	2.09	0.52
3:N:804:LEU:HB2	3:N:830:ALA:O	2.09	0.52
5:P:365:GLU:OE1	5:P:400:ILE:HD12	2.09	0.52
1:B:131:THR:HG22	9:B:9666:HOH:O	2.08	0.52
2:C:815:LEU:HD23	9:C:9551:HOH:O	2.07	0.52
2:C:878:SER:HB3	3:D:1029:ARG:HD3	1.91	0.52
3:D:1182:GLU:HG2	9:D:2146:HOH:O	2.09	0.52
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	1.91	0.52
3:D:494:LYS:HD2	9:D:2781:HOH:O	2.09	0.52
3:D:972:LEU:O	3:D:976:GLN:HG3	2.10	0.52
5:F:398:ARG:HB2	9:F:9753:HOH:O	2.09	0.52
1:K:63:HIS:HD2	1:K:65:PHE:H	1.56	0.52
2:M:220:GLY:HA3	9:M:9600:HOH:O	2.08	0.52
2:M:507:ARG:HG3	9:M:9704:HOH:O	2.08	0.52
2:M:976:ASP:OD1	2:M:978:ARG:HG3	2.10	0.52
3:N:1148:VAL:HG21	3:N:1203:LYS:HA	1.91	0.52
3:N:1459:LEU:HA	3:N:1464:GLU:OE1	2.09	0.52
3:N:181:ASP:O	3:N:185:VAL:HG23	2.09	0.52
3:N:436:GLU:HB2	3:N:445:ARG:HB2	1.91	0.52
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.92	0.52
5:P:78:SER:HB2	5:P:82:ARG:NH1	2.24	0.52
1:A:181:VAL:HG12	9:A:9562:HOH:O	2.09	0.52
1:B:185:ARG:HG3	1:B:190:THR:HG23	1.90	0.52
2:C:557:ARG:NH1	2:C:879:ARG:HG2	2.24	0.52
2:C:569:VAL:HG12	2:C:996:LYS:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:777:ILE:HD13	9:C:9807:HOH:O	2.08	0.52
2:C:552:HIS:CD2	2:C:886:LEU:HD12	2.44	0.52
2:C:946:ARG:HD2	2:C:984:GLU:HB3	1.91	0.52
3:D:1465:ASN:HD21	3:D:1470:ARG:NH1	2.07	0.52
3:D:164:GLY:HA2	9:D:9578:HOH:O	2.09	0.52
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.90	0.52
3:D:477:LEU:HD13	3:D:492:ALA:O	2.10	0.52
5:F:119:ILE:HD13	5:F:170:HIS:ND1	2.24	0.52
1:K:18:ARG:HG3	9:K:3636:HOH:O	2.09	0.52
1:L:185:ARG:HG3	1:L:190:THR:HG22	1.91	0.52
2:M:269:LEU:HD12	2:M:288:ARG:H	1.72	0.52
2:M:315:ALA:HB2	9:M:2290:HOH:O	2.09	0.52
2:M:369:PRO:HD3	9:M:9686:HOH:O	2.09	0.52
2:M:513:VAL:HG22	9:M:2542:HOH:O	2.10	0.52
2:M:724:ARG:HG3	2:M:740:GLU:CA	2.31	0.52
3:N:12:LEU:HB2	9:N:9681:HOH:O	2.08	0.52
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.90	0.52
3:N:1423:GLY:HA2	9:N:9678:HOH:O	2.07	0.52
3:N:1495:ILE:HG12	4:O:80:VAL:HG11	1.91	0.52
3:N:1485:GLN:NE2	4:O:80:VAL:H	1.99	0.52
1:B:84:GLU:HG2	1:B:127:LEU:HD11	1.92	0.52
2:C:1014:SER:OG	5:F:331:ASP:HA	2.10	0.52
2:C:12:VAL:HG13	2:C:13:ILE:HG12	1.91	0.52
2:C:431:HIS:H	2:C:434:HIS:CE1	2.27	0.52
2:C:607:ASP:HB3	2:C:610:ARG:H	1.75	0.52
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.91	0.52
3:D:116:LEU:HB3	3:D:118:LEU:HD21	1.91	0.52
3:D:607:LEU:HA	3:D:613:ARG:HB2	1.92	0.52
3:D:704:ARG:HH11	3:D:738:ALA:CB	2.22	0.52
3:D:728:LEU:HD22	3:D:745:MET:SD	2.49	0.52
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.44	0.52
4:E:13:VAL:HG11	4:E:19:LEU:HB2	1.90	0.52
1:K:110:LYS:HB2	1:K:112:ARG:HD3	1.91	0.52
1:L:206:THR:CG2	1:L:209:GLU:H	2.22	0.52
2:M:209:ARG:HD2	9:M:2006:HOH:O	2.09	0.52
2:M:790:LEU:HD12	2:M:791:ARG:N	2.25	0.52
3:N:1066:THR:HG22	3:N:1069:GLU:HB2	1.91	0.52
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.39	0.52
4:O:58:PRO:HB2	9:O:3710:HOH:O	2.08	0.52
5:P:342:VAL:HG23	5:P:343:ASP:OD1	2.10	0.52
1:B:101:LEU:HD21	1:B:113:ASP:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:65:PHE:HB2	9:B:9547:HOH:O	2.08	0.52
2:C:186:VAL:HG23	2:C:187:ASN:N	2.18	0.52
2:C:415:PRO:HA	9:C:9744:HOH:O	2.10	0.52
2:C:458:TYR:HB3	2:C:470:PRO:HG3	1.92	0.52
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.74	0.52
2:C:937:ASP:HB2	2:C:940:GLU:H	1.74	0.52
3:D:112:ILE:HG13	3:D:124:GLU:OE2	2.10	0.52
3:D:48:ARG:HB2	9:D:2881:HOH:O	2.08	0.52
5:F:81:VAL:HG12	5:F:85:LEU:HD12	1.92	0.52
1:K:182:GLU:O	1:K:194:LYS:HB3	2.08	0.52
1:K:32:PHE:CE2	1:L:43:ILE:HD13	2.45	0.52
2:M:495:THR:HB	2:M:530:GLU:HG3	1.91	0.52
2:M:630:ARG:HD2	2:M:631:SER:O	2.09	0.52
2:M:690:ILE:HA	9:M:2014:HOH:O	2.09	0.52
2:M:841:ASN:HD21	2:M:845:ASN:H	1.58	0.52
3:N:13:ALA:HA	3:N:17:LYS:NZ	2.24	0.52
3:N:660:LYS:HD2	3:N:663:GLU:OE2	2.09	0.52
3:N:776:GLU:HG3	9:N:2316:HOH:O	2.08	0.52
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.38	0.52
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.44	0.52
1:B:178:ALA:O	1:B:197:LEU:HD12	2.09	0.52
2:C:22:GLN:O	2:C:121:MET:HE1	2.10	0.52
2:C:205:GLU:O	2:C:209:ARG:HD2	2.08	0.52
2:C:413:LEU:HD12	2:C:413:LEU:H	1.74	0.52
2:C:541:SER:HB2	9:C:9852:HOH:O	2.09	0.52
2:C:735:ARG:HH11	2:C:735:ARG:HG2	1.74	0.52
2:C:727:PRO:HG2	2:C:785:VAL:HG12	1.90	0.52
2:C:858:MET:SD	2:C:867:VAL:HG23	2.50	0.52
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.39	0.52
3:D:165:LYS:HB3	3:D:395:VAL:HG11	1.91	0.52
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.39	0.52
3:D:211:VAL:HG13	3:D:393:ILE:HA	1.90	0.52
3:D:65:ARG:HD2	9:D:9875:HOH:O	2.09	0.52
5:F:385:GLU:O	5:F:397:ILE:HD13	2.10	0.52
1:L:22:GLU:OE2	1:L:198:ARG:HD3	2.09	0.52
2:M:722:ILE:O	2:M:722:ILE:HG23	2.08	0.52
2:M:759:THR:HB	2:M:785:VAL:CG2	2.40	0.52
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.44	0.52
3:N:213:VAL:HG22	3:N:214:GLU:H	1.74	0.52
5:P:358:LEU:HG	5:P:370:LYS:HG3	1.92	0.52
1:A:63:HIS:HB3	2:C:746:GLY:CA	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:91:ASN:OD1	1:A:92:PRO:HD2	2.10	0.52
1:B:92:PRO:HA	1:B:146:ARG:NH1	2.25	0.52
2:C:101:ILE:HG21	9:C:2533:HOH:O	2.09	0.52
2:C:1084:SER:HA	9:D:9711:HOH:O	2.09	0.52
2:C:111:ASP:HB3	2:C:112:GLU:OE2	2.09	0.52
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.39	0.52
2:C:405:ARG:O	2:C:408:ARG:HG3	2.08	0.52
2:C:742:VAL:HG23	9:C:2308:HOH:O	2.09	0.52
2:C:91:GLN:HE21	2:C:119:PRO:HD3	1.75	0.52
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.40	0.52
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.50	0.52
4:E:13:VAL:HG23	9:E:9514:HOH:O	2.08	0.52
1:K:68:ILE:HD13	1:K:138:LEU:HD21	1.91	0.52
1:L:57:TYR:HA	9:L:4389:HOH:O	2.09	0.52
2:M:145:GLY:H	2:M:163:ILE:HG12	1.73	0.52
2:M:196:LEU:O	2:M:199:VAL:HB	2.10	0.52
2:M:64:LEU:HA	9:M:9659:HOH:O	2.10	0.52
3:N:1253:THR:OG1	3:N:1258:ARG:HD3	2.10	0.52
3:N:493:ARG:NH2	3:N:1388:ARG:HB3	2.24	0.52
3:N:428:LYS:CE	3:N:434:ARG:HH12	2.20	0.52
3:N:574:LEU:O	3:N:578:VAL:HG23	2.10	0.52
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.50	0.52
3:N:729:HIS:CE1	3:N:731:LEU:HG	2.44	0.52
4:O:47:LYS:N	4:O:54:LEU:HD22	2.25	0.52
4:O:95:GLY:HA3	9:O:3795:HOH:O	2.10	0.52
1:A:110:LYS:HG3	9:A:9565:HOH:O	2.09	0.52
2:C:412:ALA:HB2	2:C:451:LEU:HB3	1.92	0.52
2:C:507:ARG:N	9:C:9917:HOH:O	2.30	0.52
2:C:585:GLU:O	2:C:588:VAL:HG22	2.10	0.52
1:A:72:LYS:HA	2:C:608:GLY:CA	2.39	0.52
2:C:724:ARG:NH1	2:C:734:LEU:HD23	2.24	0.52
2:C:78:PHE:HB2	2:C:88:LEU:HD21	1.91	0.52
2:C:808:ARG:H	2:C:808:ARG:HD2	1.74	0.52
2:C:432:ARG:HH12	3:D:1047:LYS:CD	2.23	0.52
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.37	0.52
1:L:30:ARG:HH11	1:L:30:ARG:HG2	1.75	0.52
2:M:243:ARG:HD2	2:M:243:ARG:O	2.09	0.52
2:M:328:LEU:CD2	2:M:437:ARG:HD3	2.40	0.52
2:M:497:ALA:HA	2:M:515:ALA:HA	1.91	0.52
2:M:808:ARG:HA	9:M:2211:HOH:O	2.08	0.52
2:M:561:GLY:HA3	2:M:842:ARG:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:172:PRO:HD2	3:N:389:GLU:O	2.09	0.52
3:N:583:ASP:OD2	3:N:604:THR:HG21	2.09	0.52
3:N:704:ARG:NH2	3:N:737:ASN:O	2.43	0.52
3:N:706:PRO:HA	9:N:2317:HOH:O	2.10	0.52
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.40	0.52
5:P:93:LEU:HG	5:P:190:ALA:CB	2.40	0.52
2:C:251:ASP:HB3	2:C:252:LYS:HD2	1.92	0.52
2:C:352:ALA:O	2:C:356:ARG:HG3	2.10	0.52
2:C:464:LEU:O	2:C:466:PHE:N	2.43	0.52
2:C:748:GLU:HB3	9:C:2077:HOH:O	2.09	0.52
2:C:393:GLN:HB3	7:C:8001:RBT:O9	2.10	0.52
2:C:861:LEU:HD23	2:C:863:ASP:N	2.24	0.52
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.10	0.52
3:D:786:ILE:HD12	3:D:1028:ALA:HA	1.92	0.52
3:D:1432:LYS:CG	3:D:1433:SER:H	2.23	0.52
3:D:476:GLU:HG2	9:D:9637:HOH:O	2.10	0.52
3:D:523:ASP:O	3:D:526:PRO:HG3	2.09	0.52
3:D:799:LYS:H	3:D:826:PRO:HG2	1.74	0.52
5:F:120:THR:CG2	5:F:122:LEU:HD13	2.39	0.52
2:M:160:ALA:O	2:M:173:ASP:HA	2.10	0.52
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.10	0.52
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.10	0.52
2:M:52:PHE:HE1	2:M:66:LEU:HG	1.75	0.52
3:N:1197:ARG:HD2	3:N:1198:TYR:CE1	2.45	0.52
3:N:185:VAL:HG12	3:N:191:LEU:HD21	1.91	0.52
3:N:671:LYS:HA	3:N:674:ARG:HD3	1.90	0.52
3:N:678:GLU:HA	9:N:9708:HOH:O	2.10	0.52
3:N:875:THR:HG23	9:N:9855:HOH:O	2.09	0.52
2:C:863:ASP:O	2:C:865:THR:N	2.43	0.52
2:C:432:ARG:HH12	3:D:1047:LYS:HD3	1.75	0.52
3:D:1302:GLU:HG3	9:D:9705:HOH:O	2.09	0.52
3:D:1412:LYS:HA	9:D:9952:HOH:O	2.08	0.52
1:B:65:PHE:HE1	3:D:806:PHE:HZ	1.57	0.52
3:D:81:THR:O	3:D:82:LYS:O	2.28	0.52
3:D:928:ALA:HB2	9:D:9640:HOH:O	2.10	0.52
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.44	0.52
1:K:218:LEU:O	1:K:222:LEU:HD23	2.10	0.52
1:K:20:TYR:CD2	1:K:21:GLY:N	2.78	0.52
2:M:134:ARG:N	9:M:9669:HOH:O	2.42	0.52
2:M:194:VAL:HG13	2:M:197:LEU:HD12	1.91	0.52
2:M:16:PRO:CB	2:M:460:ARG:HH22	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:54:ILE:HB	9:M:9580:HOH:O	2.09	0.52
2:M:705:ILE:HB	9:M:2015:HOH:O	2.10	0.52
2:M:842:ARG:HD3	9:M:9622:HOH:O	2.08	0.52
3:N:127:LEU:HB3	3:N:132:TYR:O	2.10	0.52
3:N:9:ARG:HA	3:N:1455:LYS:O	2.10	0.52
2:C:101:ILE:HG22	2:C:102:HIS:N	2.25	0.51
2:C:109:LYS:HE2	9:C:9753:HOH:O	2.09	0.51
2:C:720:GLU:HA	2:C:759:THR:O	2.10	0.51
2:C:770:GLU:HG2	9:C:2045:HOH:O	2.09	0.51
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.92	0.51
3:D:849:ALA:HB2	9:D:9991:HOH:O	2.10	0.51
5:F:312:GLN:HA	9:F:9731:HOH:O	2.09	0.51
1:L:192:LEU:HD12	9:L:4234:HOH:O	2.10	0.51
1:L:57:TYR:CZ	1:L:161:ARG:HG2	2.45	0.51
2:M:249:LYS:HG3	9:M:2241:HOH:O	2.10	0.51
2:M:69:LEU:HD23	9:M:2238:HOH:O	2.09	0.51
2:M:742:VAL:HG12	2:M:743:VAL:N	2.25	0.51
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.39	0.51
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.92	0.51
3:N:1491:THR:O	3:N:1495:ILE:HD13	2.09	0.51
3:N:529:GLN:HA	9:N:2026:HOH:O	2.10	0.51
3:N:800:LYS:HG2	3:N:829:VAL:HG12	1.92	0.51
4:O:84:ARG:HB2	4:O:84:ARG:NH1	2.25	0.51
1:A:41:ARG:O	1:A:45:LEU:HD12	2.09	0.51
2:C:297:GLU:HG2	9:C:2227:HOH:O	2.11	0.51
2:C:327:HIS:CE1	2:C:489:THR:HA	2.46	0.51
2:C:497:ALA:HA	2:C:515:ALA:HA	1.92	0.51
2:C:588:VAL:HG12	2:C:666:LEU:HD12	1.92	0.51
2:C:674:VAL:HG11	2:C:992:MET:HB3	1.92	0.51
3:D:1151:ARG:HD3	9:D:9868:HOH:O	2.10	0.51
3:D:1412:LYS:HB2	9:D:2083:HOH:O	2.10	0.51
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.45	0.51
3:D:1498:ALA:HB1	9:D:2558:HOH:O	2.10	0.51
3:D:210:ARG:HG3	3:D:398:ALA:H	1.75	0.51
3:D:395:VAL:HG23	9:D:9647:HOH:O	2.09	0.51
3:D:133:ILE:HG23	3:D:456:MET:SD	2.51	0.51
3:D:513:ILE:HG22	9:D:9932:HOH:O	2.10	0.51
3:D:539:ASP:CG	5:F:318:GLU:HB2	2.31	0.51
2:M:405:ARG:HH22	2:M:563:ASN:ND2	2.06	0.51
2:M:625:LEU:HD13	2:M:639:GLN:O	2.10	0.51
3:N:1165:TYR:HE2	3:N:1206:GLY:O	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:512:MET:HE2	3:N:1452:ILE:HD11	1.92	0.51
3:N:115:LEU:HD22	3:N:502:PHE:HE1	1.75	0.51
3:N:53:ILE:HG23	3:N:54:LYS:N	2.20	0.51
3:N:572:ARG:HH11	5:P:80:PRO:HG3	1.75	0.51
3:N:917:GLN:HA	3:N:917:GLN:NE2	2.25	0.51
2:C:728:HIS:HB3	9:C:9568:HOH:O	2.10	0.51
2:C:945:ARG:HG2	2:C:946:ARG:N	2.24	0.51
3:D:1352:ILE:CG2	3:D:1368:ILE:HD13	2.40	0.51
3:D:1382:THR:HG22	9:D:2107:HOH:O	2.11	0.51
3:D:1396:GLU:HA	3:D:1399:ASP:OD2	2.09	0.51
3:D:179:VAL:O	3:D:183:GLU:HB2	2.10	0.51
3:D:404:GLU:HB3	3:D:414:ARG:HD3	1.92	0.51
3:D:63:TYR:HB3	3:D:68:PHE:CE1	2.45	0.51
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.91	0.51
3:D:947:ILE:O	3:D:947:ILE:HD12	2.10	0.51
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.93	0.51
5:F:365:GLU:CD	5:F:397:ILE:HA	2.31	0.51
1:K:189:ARG:HD2	1:K:191:ASP:OD1	2.09	0.51
1:L:112:ARG:HB3	1:L:112:ARG:NH1	2.25	0.51
2:M:428:ARG:CZ	2:M:451:LEU:HD11	2.41	0.51
2:M:473:ARG:HD2	2:M:475:VAL:HG22	1.91	0.51
2:M:724:ARG:CG	2:M:740:GLU:HA	2.32	0.51
2:M:958:THR:HA	9:M:9663:HOH:O	2.09	0.51
2:M:944:LEU:HD21	2:M:963:LEU:CD2	2.39	0.51
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.09	0.51
3:N:80:VAL:HG12	3:N:81:THR:O	2.11	0.51
3:N:984:THR:HB	3:N:987:GLU:OE1	2.09	0.51
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.40	0.51
2:C:39:ARG:HA	2:C:39:ARG:NE	2.25	0.51
2:C:557:ARG:HB2	9:C:9575:HOH:O	2.11	0.51
2:C:876:VAL:HB	2:C:877:PRO:HD3	1.93	0.51
2:C:918:LEU:HD23	2:C:967:PHE:O	2.11	0.51
2:C:932:GLU:HB3	9:C:2388:HOH:O	2.10	0.51
3:D:125:GLN:HB2	9:D:2691:HOH:O	2.11	0.51
3:D:1377:LYS:HE2	3:D:1394:VAL:HG22	1.92	0.51
3:D:149:LYS:HA	9:D:9643:HOH:O	2.10	0.51
3:D:477:LEU:HD22	3:D:492:ALA:CB	2.39	0.51
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.45	0.51
3:D:62:LYS:HG3	9:D:2590:HOH:O	2.10	0.51
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.25	0.51
1:K:123:MET:O	1:K:125:PRO:HD3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1051:GLU:HG2	2:M:1056:LYS:HD2	1.91	0.51
2:M:211:LEU:HD11	2:M:308:ARG:HA	1.93	0.51
2:M:140:ILE:HA	2:M:332:ARG:O	2.11	0.51
2:M:520:GLU:HB2	9:M:2193:HOH:O	2.10	0.51
3:N:1189:ARG:HD3	9:N:2289:HOH:O	2.09	0.51
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.40	0.51
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.74	0.51
3:N:168:THR:HB	3:N:393:ILE:HD12	1.91	0.51
1:B:54:THR:HB	1:B:143:ARG:HD3	1.93	0.51
2:C:230:ARG:HB3	9:C:9986:HOH:O	2.10	0.51
2:C:334:ARG:HH12	2:C:415:PRO:HG2	1.76	0.51
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.26	0.51
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.46	0.51
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.40	0.51
2:C:703:ILE:HD11	2:C:830:LYS:HG2	1.93	0.51
3:D:1156:LEU:HD11	3:D:1176:LYS:HD2	1.91	0.51
3:D:1418:LYS:HG3	9:D:2791:HOH:O	2.10	0.51
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.41	0.51
3:D:37:LEU:HD13	3:D:535:PHE:HZ	1.76	0.51
3:D:693:GLU:HA	9:D:2933:HOH:O	2.10	0.51
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	1.91	0.51
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.19	0.51
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.45	0.51
2:M:380:ALA:HA	2:M:383:ARG:HG2	1.93	0.51
2:M:882:LEU:HD11	3:N:1038:LEU:HD23	1.92	0.51
3:N:1412:LYS:HG2	3:N:1414:PRO:HG3	1.92	0.51
3:N:514:LEU:HD23	9:N:9590:HOH:O	2.09	0.51
2:C:150:PRO:HB2	9:C:9683:HOH:O	2.10	0.51
2:C:971:LYS:HB3	2:C:987:ILE:C	2.30	0.51
3:D:112:ILE:HG12	3:D:128:TYR:OH	2.10	0.51
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.11	0.51
3:D:583:ASP:OD2	3:D:604:THR:HG21	2.11	0.51
4:E:26:ARG:O	4:E:29:GLN:HG2	2.10	0.51
5:F:273:ARG:O	5:F:276:ARG:HB2	2.10	0.51
2:C:1010:THR:HG21	5:F:341:PRO:HB2	1.93	0.51
1:L:116:PRO:HD2	9:L:4491:HOH:O	2.10	0.51
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.93	0.51
2:M:1066:ALA:O	2:M:1070:ILE:HG13	2.10	0.51
2:M:1098:ASP:HB2	3:N:21:TRP:CZ2	2.41	0.51
2:M:216:GLU:HA	9:M:9842:HOH:O	2.09	0.51
2:M:250:ARG:HB3	9:M:9639:HOH:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:367:LEU:O	2:M:371:LYS:HB3	2.11	0.51
2:M:563:ASN:HB2	9:M:9967:HOH:O	2.09	0.51
2:M:751:PRO:HA	2:M:792:VAL:HB	1.92	0.51
3:N:1391:GLU:HG2	3:N:1393:GLN:HG3	1.90	0.51
3:N:52:PRO:HD2	3:N:79:GLU:O	2.11	0.51
3:N:787:LEU:O	3:N:787:LEU:HD12	2.10	0.51
5:P:264:MET:O	5:P:267:THR:HB	2.11	0.51
1:B:81:ASN:O	1:B:84:GLU:HB3	2.10	0.51
2:C:1097:LEU:HD21	3:D:103:TRP:CZ3	2.46	0.51
2:C:30:LEU:HD12	2:C:30:LEU:O	2.11	0.51
2:C:139:GLN:OE1	2:C:415:PRO:HD3	2.11	0.51
2:C:561:GLY:HA3	2:C:842:ARG:O	2.10	0.51
2:C:716:LYS:HE2	9:F:9964:HOH:O	2.10	0.51
2:C:946:ARG:CD	2:C:984:GLU:HB3	2.41	0.51
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.45	0.51
3:D:1047:LYS:HB2	3:D:1051:GLU:OE2	2.10	0.51
3:D:417:PRO:HB2	9:D:2401:HOH:O	2.10	0.51
3:D:675:ARG:O	3:D:678:GLU:HG2	2.10	0.51
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.76	0.51
3:D:804:LEU:HD23	3:D:804:LEU:H	1.76	0.51
5:F:141:VAL:HG23	9:F:9945:HOH:O	2.09	0.51
5:F:235:PHE:HA	9:F:9866:HOH:O	2.10	0.51
2:M:1086:ARG:HD3	2:M:1112:PHE:HD2	1.75	0.51
2:M:185:LYS:HD3	2:M:190:LYS:HG2	1.92	0.51
2:M:902:ILE:O	2:M:904:PRO:HD3	2.11	0.51
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.38	0.51
3:N:1493:LYS:O	3:N:1497:GLU:HG2	2.10	0.51
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.41	0.51
3:N:426:LYS:HD2	3:N:428:LYS:NZ	2.25	0.51
3:N:57:GLU:HG2	3:N:58:CYS:O	2.11	0.51
3:N:787:LEU:HD21	3:N:947:ILE:CD1	2.40	0.51
5:P:287:THR:C	5:P:289:GLU:H	2.14	0.51
2:C:91:GLN:HG2	2:C:119:PRO:HG3	1.93	0.51
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.92	0.51
2:C:724:ARG:HB2	2:C:740:GLU:HG3	1.92	0.51
2:C:690:ILE:HD13	2:C:833:LEU:HD21	1.93	0.51
2:C:976:ASP:HB2	2:C:979:THR:HG22	1.93	0.51
3:D:817:GLU:HG3	3:D:839:LEU:HD22	1.92	0.51
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.93	0.51
4:E:73:LEU:HD12	4:E:73:LEU:H	1.76	0.51
5:F:419:ARG:O	5:F:421:PHE:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:189:ARG:HG2	2:M:189:ARG:HH11	1.75	0.51
3:N:144:GLY:HA2	9:N:2845:HOH:O	2.11	0.51
3:N:706:PRO:HD2	9:N:9656:HOH:O	2.09	0.51
3:N:790:TYR:CE1	3:N:1022:VAL:HG13	2.46	0.51
1:A:6:LEU:HD11	9:A:9781:HOH:O	2.10	0.51
1:A:83:LYS:HD3	9:C:9668:HOH:O	2.11	0.51
1:B:57:TYR:HB2	9:B:9571:HOH:O	2.11	0.51
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.90	0.51
3:D:1087:ARG:HD3	9:D:9927:HOH:O	2.11	0.51
3:D:1211:MET:SD	3:D:1213:ARG:HD2	2.51	0.51
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.76	0.51
3:D:526:PRO:O	3:D:537:THR:HA	2.11	0.51
3:D:584:ASN:OD1	3:D:590:PRO:HD2	2.11	0.51
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.92	0.51
3:D:1476:THR:HG23	4:E:21:VAL:HG22	1.92	0.51
5:F:218:GLN:HA	5:F:221:ILE:HD12	1.93	0.51
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.45	0.51
5:F:88:ILE:HG22	9:F:9899:HOH:O	2.10	0.51
1:K:122:ILE:HD12	9:K:4058:HOH:O	2.11	0.51
1:L:65:PHE:HB2	9:L:3775:HOH:O	2.11	0.51
2:M:1101:THR:O	2:M:1102:LEU:HD23	2.10	0.51
2:M:242:LEU:HD23	9:M:2128:HOH:O	2.10	0.51
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.93	0.51
2:M:442:GLU:HG2	2:M:454:SER:OG	2.11	0.51
2:M:510:ALA:HB3	2:M:513:VAL:HG23	1.91	0.51
2:M:804:VAL:HG21	9:M:2269:HOH:O	2.10	0.51
2:M:80:GLN:O	2:M:83:CYS:HB2	2.11	0.51
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.92	0.51
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.92	0.51
3:N:379:ALA:HB2	9:N:2174:HOH:O	2.11	0.51
3:N:129:PHE:C	3:N:568:ARG:HH21	2.13	0.51
3:N:637:LEU:HD11	3:N:642:CYS:N	2.26	0.51
1:A:24:VAL:HG13	1:A:196:THR:HG22	1.93	0.51
2:C:207:LEU:HD22	2:C:221:LEU:HD22	1.93	0.51
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.93	0.51
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.46	0.51
2:C:602:GLU:HA	2:C:647:GLN:O	2.11	0.51
3:D:1057:VAL:HA	3:D:1069:GLU:CD	2.31	0.51
3:D:1310:ARG:CZ	3:D:1327:ARG:HB3	2.41	0.51
3:D:153:LEU:HD11	3:D:158:TYR:N	2.26	0.51
3:D:42:ASP:O	3:D:43:GLY:O	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:702:LEU:HD21	9:D:9734:HOH:O	2.11	0.51
5:F:306:GLU:O	5:F:310:ILE:HG13	2.11	0.51
1:K:124:ASN:HA	9:K:5696:HOH:O	2.10	0.51
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.93	0.51
1:L:216:GLU:HB2	9:L:4064:HOH:O	2.11	0.51
2:M:551:GLU:OE1	2:M:906:PHE:HA	2.11	0.51
2:M:697:ARG:HB2	9:M:2289:HOH:O	2.10	0.51
2:M:93:PRO:HA	9:M:2449:HOH:O	2.11	0.51
3:N:105:VAL:HG13	3:N:124:GLU:OE1	2.10	0.51
3:N:1493:LYS:HD3	3:N:1496:GLU:OE2	2.10	0.51
3:N:768:ASN:HD22	3:N:768:ASN:N	2.08	0.51
5:P:156:VAL:HA	5:P:159:ILE:HD12	1.93	0.51
5:P:280:GLN:HB2	9:P:4160:HOH:O	2.11	0.51
1:B:133:GLU:HG3	1:B:134:GLU:N	2.26	0.50
1:B:81:ASN:HB3	9:B:9545:HOH:O	2.11	0.50
2:C:437:ARG:CZ	2:C:469:THR:HG22	2.41	0.50
2:C:56:GLU:HG2	2:C:64:LEU:HD23	1.91	0.50
2:C:713:ARG:HH12	2:C:818:GLY:HA3	1.75	0.50
3:D:1003:VAL:HG21	3:D:1041:LEU:CD2	2.41	0.50
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.46	0.50
3:D:1304:LYS:HB3	9:D:9963:HOH:O	2.10	0.50
3:D:1432:LYS:HG3	3:D:1433:SER:H	1.75	0.50
3:D:1432:LYS:NZ	3:D:1460:ILE:HG13	2.25	0.50
3:D:191:LEU:HG	9:D:2144:HOH:O	2.11	0.50
3:D:213:VAL:HG23	3:D:391:ALA:HA	1.92	0.50
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.22	0.50
5:F:247:ILE:O	5:F:251:ILE:HG13	2.11	0.50
2:M:208:ALA:HA	2:M:221:LEU:HD21	1.92	0.50
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.26	0.50
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.25	0.50
2:M:629:TYR:HE1	9:M:9647:HOH:O	1.93	0.50
3:N:1128:VAL:HG21	9:N:2608:HOH:O	2.11	0.50
3:N:1149:LEU:HD22	9:N:9815:HOH:O	2.11	0.50
3:N:1310:ARG:HD2	3:N:1327:ARG:HD2	1.91	0.50
3:N:1404:ASN:ND2	3:N:1408:ILE:HD12	2.26	0.50
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.11	0.50
3:N:554:LEU:HD21	3:N:571:LYS:HG3	1.92	0.50
3:N:693:GLU:HA	4:O:48:MET:CE	2.41	0.50
1:A:72:LYS:HB3	1:A:131:THR:OG1	2.10	0.50
1:A:227:ASN:H	1:A:227:ASN:ND2	2.09	0.50
1:B:1:MET:HB2	9:B:9722:HOH:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:708:TYR:CE2	2:C:793:PRO:HD2	2.45	0.50
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.11	0.50
3:D:400:VAL:HG12	3:D:401:TYR:HD1	1.77	0.50
3:D:693:GLU:HG3	9:D:2933:HOH:O	2.11	0.50
3:D:630:VAL:O	3:D:726:ILE:HG13	2.10	0.50
2:C:889:HIS:HE1	3:D:951:ILE:H	1.57	0.50
4:E:73:LEU:HD12	9:E:9555:HOH:O	2.11	0.50
5:F:363:GLU:HA	5:F:367:MET:CE	2.41	0.50
2:M:148:PHE:HZ	2:M:281:LEU:HD13	1.77	0.50
2:M:486:MET:HE3	2:M:491:GLU:HA	1.92	0.50
2:M:54:ILE:HG23	2:M:54:ILE:O	2.11	0.50
2:M:678:PRO:HD2	9:N:9608:HOH:O	2.12	0.50
2:M:861:LEU:HD22	2:M:863:ASP:OD1	2.11	0.50
3:N:119:SER:OG	3:N:123:LEU:HD12	2.11	0.50
3:N:523:ASP:O	3:N:526:PRO:HG3	2.12	0.50
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.41	0.50
5:P:74:LYS:HE3	9:P:3589:HOH:O	2.11	0.50
1:A:49:PRO:HB3	1:A:148:VAL:HG22	1.92	0.50
1:A:89:PHE:HZ	1:A:146:ARG:HB2	1.75	0.50
2:C:243:ARG:O	2:C:243:ARG:HD2	2.11	0.50
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.26	0.50
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.93	0.50
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.94	0.50
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.10	0.50
3:D:530:VAL:HA	9:D:9858:HOH:O	2.11	0.50
3:D:602:SER:O	3:D:606:ILE:HG12	2.11	0.50
3:D:774:SER:C	3:D:776:GLU:H	2.14	0.50
3:D:790:TYR:HA	9:D:9833:HOH:O	2.10	0.50
3:D:817:GLU:OE1	3:D:839:LEU:HD21	2.11	0.50
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.23	0.50
3:D:790:TYR:CZ	3:D:905:PRO:HB2	2.47	0.50
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.41	0.50
5:F:112:ALA:HA	5:F:173:TYR:CD2	2.39	0.50
5:F:267:THR:O	5:F:271:LEU:HG	2.10	0.50
2:M:21:ILE:HD12	2:M:21:ILE:H	1.75	0.50
2:M:61:LYS:NZ	2:M:102:HIS:HE1	2.09	0.50
2:M:925:TYR:C	2:M:925:TYR:CD1	2.85	0.50
3:N:1128:VAL:HG22	9:N:9896:HOH:O	2.12	0.50
3:N:10:ILE:HD11	3:N:1434:TRP:NE1	2.26	0.50
3:N:1473:PRO:HD3	9:N:9577:HOH:O	2.11	0.50
3:N:139:GLY:H	3:N:147:VAL:HG21	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:32:ILE:HG12	3:N:38:LYS:O	2.11	0.50
3:N:502:PHE:CZ	3:N:509:PRO:HB3	2.47	0.50
3:N:601:ARG:HH22	3:N:612:GLY:HA2	1.77	0.50
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.93	0.50
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.46	0.50
5:P:323:ASP:O	5:P:325:LYS:N	2.44	0.50
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.42	0.50
2:C:6:PHE:CE2	2:C:913:GLU:HB3	2.46	0.50
3:D:783:ARG:HH21	3:D:1029:ARG:CZ	2.24	0.50
3:D:1068:LEU:HD23	3:D:1068:LEU:O	2.11	0.50
3:D:154:THR:CG2	3:D:156:GLU:HG2	2.41	0.50
3:D:183:GLU:O	3:D:186:VAL:HG12	2.12	0.50
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.41	0.50
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.41	0.50
5:F:154:LYS:HE3	9:F:9774:HOH:O	2.10	0.50
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.47	0.50
1:K:162:ILE:HG13	1:K:163:ASN:ND2	2.27	0.50
1:K:184:THR:O	1:K:192:LEU:HB2	2.11	0.50
1:L:156:HIS:HE1	1:L:166:PRO:HB3	1.75	0.50
2:M:206:THR:HG21	9:M:2430:HOH:O	2.10	0.50
2:M:896:PHE:O	2:M:924:VAL:HG11	2.11	0.50
2:M:984:GLU:O	3:N:946:GLY:HA3	2.11	0.50
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.26	0.50
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	2.11	0.50
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.37	0.50
3:N:455:ARG:HG2	3:N:455:ARG:HH11	1.76	0.50
3:N:972:LEU:HD13	9:N:2106:HOH:O	2.11	0.50
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.35	0.50
1:B:26:GLU:HG2	1:B:27:PRO:CA	2.42	0.50
1:A:221:HIS:HB3	1:B:36:LEU:HD21	1.92	0.50
2:C:313:LEU:HD12	2:C:313:LEU:O	2.12	0.50
2:C:496:ILE:HD12	2:C:496:ILE:H	1.77	0.50
2:C:517:ARG:HH11	2:C:522:VAL:HG11	1.76	0.50
3:D:1139:ASP:HB3	3:D:1357:ARG:NH2	2.27	0.50
3:D:1214:PRO:HB2	9:D:2041:HOH:O	2.10	0.50
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.93	0.50
3:D:397:LYS:CE	3:D:399:ARG:HE	2.24	0.50
3:D:704:ARG:HH11	3:D:738:ALA:CA	2.24	0.50
9:B:9819:HOH:O	3:D:840:LYS:HD2	2.12	0.50
5:F:262:VAL:HG23	9:F:9657:HOH:O	2.11	0.50
1:K:187:GLY:HA3	9:K:4787:HOH:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:115:LEU:HD11	9:L:3925:HOH:O	2.12	0.50
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.74	0.50
2:M:407:LYS:HD2	9:M:9923:HOH:O	2.12	0.50
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.76	0.50
2:M:546:LEU:HB3	9:M:9622:HOH:O	2.10	0.50
2:M:772:ARG:HB2	2:M:772:ARG:HH11	1.77	0.50
3:N:628:ARG:HD3	3:N:744:GLN:HE22	1.75	0.50
5:P:222:ARG:NH1	5:P:246:ALA:HB2	2.26	0.50
5:P:350:LEU:HD23	5:P:351:SER:N	2.27	0.50
1:A:57:TYR:CD2	1:A:161:ARG:HD2	2.46	0.50
2:C:1000:MET:HB2	2:C:1002:GLU:HG3	1.93	0.50
2:C:670:GLN:HE22	2:C:699:PHE:CA	2.25	0.50
2:C:722:ILE:HG22	2:C:820:ARG:NH2	2.27	0.50
3:D:1392:GLY:HA3	9:D:9721:HOH:O	2.11	0.50
3:D:60:CYS:HB3	9:D:9808:HOH:O	2.12	0.50
3:D:625:TYR:O	3:D:749:VAL:HG23	2.11	0.50
5:F:407:LYS:HB3	9:F:9858:HOH:O	2.11	0.50
1:K:102:LYS:HG3	1:K:139:ASN:CB	2.42	0.50
2:M:1018:GLN:CG	2:M:1060:ILE:HD11	2.42	0.50
2:M:197:LEU:HD22	2:M:202:TYR:HD2	1.77	0.50
2:M:139:GLN:O	2:M:333:ILE:HA	2.11	0.50
2:M:464:LEU:O	2:M:466:PHE:N	2.45	0.50
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.94	0.50
2:M:520:GLU:HB2	9:M:2526:HOH:O	2.11	0.50
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.47	0.50
3:N:1290:LEU:CD2	3:N:1291:SER:H	2.23	0.50
3:N:131:LYS:O	3:N:133:ILE:HD13	2.12	0.50
3:N:1422:MET:HE2	9:N:9889:HOH:O	2.11	0.50
3:N:424:GLY:HA2	3:N:435:VAL:O	2.11	0.50
3:N:820:GLU:HA	3:N:825:ALA:O	2.12	0.50
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.94	0.50
5:P:133:ALA:HB3	9:P:5172:HOH:O	2.11	0.50
9:N:9682:HOH:O	5:P:87:GLU:HG3	2.10	0.50
1:A:102:LYS:HE2	1:A:139:ASN:HB2	1.94	0.50
1:B:1:MET:HG3	9:B:9588:HOH:O	2.11	0.50
1:B:41:ARG:HG3	1:B:177:VAL:CG2	2.38	0.50
2:C:1025:ALA:HA	9:C:9555:HOH:O	2.10	0.50
2:C:346:VAL:O	2:C:350:ARG:HG3	2.12	0.50
2:C:456:ALA:HB1	2:C:538:GLN:O	2.12	0.50
2:C:703:ILE:HD11	9:C:9934:HOH:O	2.10	0.50
3:D:106:LYS:HE3	9:D:2691:HOH:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.12	0.50
3:D:116:LEU:O	3:D:118:LEU:HG	2.12	0.50
3:D:1274:ILE:HD11	3:D:1334:GLN:NE2	2.26	0.50
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.11	0.50
5:F:305:GLU:O	5:F:309:LYS:HG3	2.11	0.50
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.93	0.50
1:K:89:PHE:HB3	1:K:94:LEU:HD13	1.93	0.50
2:M:290:LEU:H	2:M:290:LEU:HD23	1.77	0.50
2:M:313:LEU:CD2	2:M:314:THR:HG23	2.41	0.50
2:M:602:GLU:HA	2:M:647:GLN:O	2.12	0.50
2:M:551:GLU:HA	2:M:906:PHE:CE2	2.47	0.50
3:N:386:HIS:HA	9:N:9796:HOH:O	2.11	0.50
3:N:600:LEU:HD12	3:N:600:LEU:H	1.75	0.50
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.92	0.50
1:L:150:TYR:HE2	3:N:857:ILE:HG13	1.76	0.50
4:O:90:GLU:HA	9:O:4303:HOH:O	2.11	0.50
5:P:110:MET:HE1	9:P:6261:HOH:O	2.11	0.50
5:P:122:LEU:HD12	9:P:4507:HOH:O	2.10	0.50
1:B:23:PHE:CD2	1:B:211:LEU:HD22	2.47	0.50
2:C:265:ARG:HB3	2:C:267:TYR:CE2	2.46	0.50
2:C:25:SER:CB	2:C:335:THR:HB	2.41	0.50
2:C:572:ILE:HG13	9:C:2021:HOH:O	2.12	0.50
2:C:396:ASP:HA	2:C:633:GLN:NE2	2.26	0.50
2:C:724:ARG:CD	2:C:740:GLU:HA	2.42	0.50
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.35	0.50
3:D:952:ASP:HA	3:D:1062:ARG:NH2	2.26	0.50
3:D:1458:GLU:HB3	9:D:2112:HOH:O	2.12	0.50
3:D:150:ARG:HD2	9:D:2177:HOH:O	2.10	0.50
3:D:631:ILE:O	3:D:632:VAL:HG23	2.11	0.50
3:D:637:LEU:HD11	3:D:642:CYS:N	2.26	0.50
4:E:43:GLU:CD	4:E:43:GLU:H	2.14	0.50
5:F:287:THR:C	5:F:289:GLU:H	2.14	0.50
5:F:295:MET:HE2	5:F:295:MET:HA	1.93	0.50
5:F:369:LEU:HD11	5:F:401:GLU:HB2	1.93	0.50
1:L:101:LEU:HD21	1:L:113:ASP:HB3	1.93	0.50
1:L:143:ARG:HD2	1:L:160:ASP:CG	2.32	0.50
2:M:103:LYS:HA	2:M:103:LYS:NZ	2.27	0.50
2:M:18:LEU:HD22	2:M:590:ASP:HB2	1.94	0.50
2:M:45:GLN:HA	9:M:9965:HOH:O	2.12	0.50
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.93	0.50
3:N:103:TRP:CH2	3:N:1447:LEU:HD23	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1145:TYR:HE2	3:N:1168:MET:HB2	1.76	0.50
3:N:1173:LEU:HA	9:N:2439:HOH:O	2.12	0.50
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.12	0.50
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.94	0.50
3:N:683:ILE:HB	9:N:9759:HOH:O	2.11	0.50
4:O:87:LYS:HE2	4:O:91:ARG:CZ	2.42	0.50
1:B:26:GLU:HG3	1:B:184:THR:HG21	1.94	0.50
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.47	0.50
2:C:333:ILE:HD13	2:C:467:ILE:HG13	1.92	0.50
2:C:73:LEU:HB3	2:C:94:LEU:HD13	1.93	0.50
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.12	0.50
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.42	0.50
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.93	0.50
3:D:141:ILE:HD13	3:D:449:SER:OG	2.12	0.50
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.35	0.50
1:K:41:ARG:HH11	1:K:177:VAL:HB	1.77	0.50
1:L:108:GLU:HB2	9:L:4517:HOH:O	2.10	0.50
2:M:248:PRO:HB2	9:M:2239:HOH:O	2.12	0.50
2:M:357:GLU:O	2:M:360:LEU:HG	2.12	0.50
2:M:724:ARG:CG	2:M:741:GLY:H	2.24	0.50
2:M:552:HIS:CD2	2:M:886:LEU:HD12	2.47	0.50
3:N:169:TYR:N	3:N:170:PRO:CD	2.75	0.50
3:N:42:ASP:O	3:N:43:GLY:O	2.29	0.50
3:N:576:GLU:O	3:N:579:ASP:HB2	2.12	0.50
5:P:317:LEU:O	5:P:329:TYR:HB3	2.11	0.50
1:A:168:ASP:HB3	9:C:9876:HOH:O	2.11	0.49
1:A:24:VAL:HG22	1:A:196:THR:HB	1.94	0.49
1:A:212:ASN:O	1:A:215:VAL:HG22	2.11	0.49
1:B:208:LEU:HB2	9:B:9610:HOH:O	2.12	0.49
1:B:13:VAL:HG13	1:B:23:PHE:CD1	2.47	0.49
2:C:1008:ARG:NH1	2:C:1011:GLY:HA3	2.27	0.49
2:C:515:ALA:C	2:C:516:ARG:HG2	2.32	0.49
2:C:603:VAL:HG12	9:C:9913:HOH:O	2.12	0.49
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.94	0.49
3:D:474:GLU:HG3	3:D:500:ARG:HE	1.77	0.49
3:D:669:ASN:O	3:D:672:ALA:HB3	2.11	0.49
3:D:984:THR:HG23	3:D:986:ARG:H	1.77	0.49
4:E:40:LEU:O	4:E:40:LEU:HD22	2.12	0.49
1:L:105:GLY:HA2	9:L:4025:HOH:O	2.12	0.49
1:L:206:THR:HG22	1:L:209:GLU:HG3	1.94	0.49
2:M:1023:GLY:HA2	9:M:2349:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:244:PRO:CD	2:M:245:GLY:H	2.24	0.49
2:M:358:ARG:HB3	2:M:371:LYS:O	2.12	0.49
2:M:721:ARG:NH2	2:M:785:VAL:HG21	2.25	0.49
2:M:979:THR:HG21	9:M:2061:HOH:O	2.10	0.49
3:N:999:THR:O	3:N:1002:LYS:HB2	2.12	0.49
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.12	0.49
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.23	0.49
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.12	0.49
3:N:679:ARG:HH22	3:N:681:ARG:NE	2.10	0.49
3:N:754:PHE:HE2	3:N:1476:THR:HG21	1.77	0.49
3:N:81:THR:O	3:N:82:LYS:C	2.50	0.49
4:O:43:GLU:H	4:O:43:GLU:CD	2.15	0.49
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.94	0.49
4:O:74:VAL:HG12	4:O:79:LEU:HD21	1.94	0.49
2:M:1021:LEU:HD21	5:P:332:PHE:HA	1.93	0.49
1:B:132:LEU:HD13	1:B:138:LEU:HD13	1.94	0.49
1:B:184:THR:HG23	1:B:192:LEU:HB3	1.94	0.49
1:B:227:ASN:HD22	1:B:227:ASN:N	2.09	0.49
2:C:473:ARG:HD2	2:C:475:VAL:HG23	1.94	0.49
2:C:599:GLU:HG2	2:C:600:ASP:H	1.77	0.49
1:A:72:LYS:O	2:C:608:GLY:HA3	2.12	0.49
2:C:64:LEU:HD22	2:C:359:MET:CG	2.33	0.49
2:C:882:LEU:HD21	3:D:951:ILE:HA	1.94	0.49
3:D:1004:THR:HG22	9:D:9570:HOH:O	2.11	0.49
3:D:481:MET:HB2	9:D:2197:HOH:O	2.12	0.49
3:D:86:ARG:HG3	3:D:86:ARG:O	2.12	0.49
3:D:959:GLU:CD	3:D:959:GLU:H	2.15	0.49
5:F:411:HIS:HA	5:F:414:ARG:HG3	1.93	0.49
2:M:387:SER:OG	2:M:388:ARG:HD3	2.12	0.49
2:M:52:PHE:CE1	2:M:66:LEU:HG	2.47	0.49
2:M:549:PHE:CE2	2:M:886:LEU:HB3	2.48	0.49
3:N:996:TRP:O	3:N:1000:THR:HG22	2.12	0.49
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.11	0.49
3:N:115:LEU:HD22	3:N:502:PHE:CE1	2.47	0.49
3:N:528:VAL:HG13	9:P:4960:HOH:O	2.11	0.49
3:N:655:PRO:HA	3:N:658:LEU:HD12	1.94	0.49
2:M:1115:LEU:HD23	3:N:85:VAL:N	2.26	0.49
1:A:150:TYR:CD1	2:C:696:LYS:HD3	2.47	0.49
2:C:140:ILE:CD1	2:C:412:ALA:HA	2.42	0.49
2:C:500:ASN:HB3	9:C:2232:HOH:O	2.12	0.49
3:D:1045:MET:HB2	9:D:9822:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1192:LEU:HG	3:D:1369:GLU:HG2	1.94	0.49
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.40	0.49
3:D:131:LYS:HE2	3:D:568:ARG:CB	2.43	0.49
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.27	0.49
3:D:872:ARG:HB3	9:D:9663:HOH:O	2.12	0.49
4:E:17:TYR:N	4:E:17:TYR:HD2	2.11	0.49
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.95	0.49
2:M:292:ARG:HD2	2:M:299:LYS:HG2	1.95	0.49
2:M:418:LEU:HD12	2:M:418:LEU:N	2.27	0.49
2:M:525:SER:OG	2:M:528:GLU:HG3	2.11	0.49
2:M:975:TYR:HA	2:M:982:PRO:HA	1.93	0.49
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.32	0.49
3:N:1191:PRO:HB3	3:N:1370:ILE:HD13	1.94	0.49
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.12	0.49
3:N:185:VAL:HG22	9:N:2294:HOH:O	2.12	0.49
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.93	0.49
3:N:550:ARG:HD2	3:N:573:MET:HB3	1.95	0.49
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.32	0.49
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.43	0.49
3:N:864:VAL:HG12	3:N:865:THR:H	1.77	0.49
2:M:772:ARG:CD	5:P:373:LYS:HD2	2.42	0.49
5:P:79:ASP:HB3	5:P:80:PRO:CD	2.42	0.49
1:A:76:VAL:HA	1:A:79:ILE:HG12	1.94	0.49
2:C:274:ARG:O	2:C:274:ARG:HG2	2.12	0.49
2:C:942:GLU:HG3	9:D:2549:HOH:O	2.11	0.49
2:C:676:ILE:HG22	2:C:988:VAL:HG22	1.93	0.49
3:D:1037:GLN:CD	3:D:1042:ARG:HB3	2.32	0.49
3:D:1330:ILE:HB	3:D:1347:TYR:CZ	2.46	0.49
3:D:10:ILE:HD13	3:D:1447:LEU:HG	1.94	0.49
3:D:397:LYS:HG3	9:D:9821:HOH:O	2.12	0.49
3:D:57:GLU:HG2	3:D:58:CYS:N	2.27	0.49
3:D:804:LEU:HD23	9:D:2035:HOH:O	2.11	0.49
5:F:151:LEU:HB2	5:F:155:THR:H	1.78	0.49
5:F:192:LEU:O	5:F:192:LEU:HD23	2.11	0.49
5:F:215:GLU:N	9:F:9685:HOH:O	2.44	0.49
5:F:234:LYS:HD3	5:F:236:SER:HB3	1.93	0.49
1:L:101:LEU:HD12	1:L:114:PHE:CD1	2.47	0.49
1:K:9:PRO:HD2	1:L:224:TYR:CD1	2.48	0.49
2:M:228:ALA:HB2	9:M:9769:HOH:O	2.12	0.49
2:M:257:VAL:HG12	2:M:263:ASP:OD1	2.13	0.49
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:462:GLN:CG	3:N:513:ILE:HD13	2.43	0.49
3:N:555:LYS:HB3	9:N:9736:HOH:O	2.11	0.49
5:P:299:TRP:CZ3	5:P:303:ARG:HG2	2.48	0.49
5:P:337:HIS:H	5:P:337:HIS:CD2	2.28	0.49
1:A:2:LEU:HD23	9:A:9587:HOH:O	2.12	0.49
2:C:1045:ALA:HB1	2:C:1048:THR:HB	1.95	0.49
2:C:140:ILE:HD11	2:C:412:ALA:HA	1.93	0.49
2:C:34:VAL:CB	2:C:38:LYS:HG3	2.42	0.49
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.42	0.49
2:C:498:GLN:O	2:C:501:THR:HG23	2.11	0.49
2:C:56:GLU:HB3	9:C:9885:HOH:O	2.12	0.49
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.11	0.49
3:D:1285:GLU:H	3:D:1285:GLU:CD	2.15	0.49
3:D:639:LEU:CD1	3:D:640:HIS:H	2.25	0.49
3:D:6:ARG:NH1	3:D:6:ARG:HB2	2.27	0.49
3:D:744:GLN:HG3	9:D:2560:HOH:O	2.12	0.49
3:D:770:LEU:HB2	3:D:1210:SER:O	2.11	0.49
2:C:873:PRO:HG2	3:D:947:ILE:O	2.12	0.49
5:F:227:PHE:CZ	5:F:229:TYR:HA	2.48	0.49
9:D:9783:HOH:O	5:F:314:PRO:HA	2.12	0.49
5:F:333:ILE:HG13	9:F:9704:HOH:O	2.10	0.49
1:K:69:PRO:O	1:K:71:VAL:HG23	2.11	0.49
2:M:507:ARG:HH11	2:M:507:ARG:CB	2.22	0.49
2:M:61:LYS:HE2	9:M:9621:HOH:O	2.11	0.49
3:N:1034:GLN:O	3:N:1038:LEU:HD12	2.13	0.49
3:N:956:ILE:HG12	3:N:1039:CYS:O	2.12	0.49
3:N:1068:LEU:C	3:N:1070:TYR:H	2.14	0.49
3:N:1078:ARG:HH11	3:N:1078:ARG:HG3	1.76	0.49
3:N:1263:PHE:CE1	3:N:1352:ILE:HD13	2.47	0.49
3:N:1103:HIS:HD2	3:N:1463:LYS:H	1.58	0.49
3:N:696:HIS:HB3	9:N:2096:HOH:O	2.11	0.49
5:P:261:PRO:O	5:P:265:VAL:HG23	2.13	0.49
1:A:86:VAL:HG23	1:A:202:ASP:OD1	2.13	0.49
1:B:3:ASP:HB3	9:B:9533:HOH:O	2.13	0.49
2:C:137:VAL:O	2:C:391:LEU:HD21	2.13	0.49
2:C:198:ARG:HG2	9:C:2206:HOH:O	2.12	0.49
2:C:794:PRO:HD2	9:C:9555:HOH:O	2.12	0.49
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.42	0.49
3:D:150:ARG:NH1	3:D:464:LEU:HD22	2.27	0.49
3:D:28:LYS:HD2	3:D:552:ASN:HD21	1.77	0.49
3:D:795:VAL:HG23	3:D:879:ARG:NH1	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:404:ALA:O	5:F:408:LEU:HD23	2.13	0.49
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.32	0.49
1:L:100:LEU:HB2	1:L:115:LEU:HD21	1.94	0.49
1:L:65:PHE:HD1	3:N:813:LEU:HD22	1.75	0.49
2:M:326:ASP:HA	2:M:331:ARG:HD3	1.93	0.49
2:M:580:MET:HB3	2:M:584:GLU:CD	2.33	0.49
2:M:605:LYS:HD3	2:M:610:ARG:HH22	1.76	0.49
2:M:625:LEU:O	2:M:627:ARG:N	2.44	0.49
2:M:637:LEU:HD23	2:M:637:LEU:N	2.28	0.49
2:M:736:ASP:HA	2:M:744:ARG:HD3	1.95	0.49
2:M:983:ILE:CG2	2:M:987:ILE:HD11	2.43	0.49
3:N:154:THR:HG23	3:N:157:GLU:H	1.76	0.49
3:N:202:VAL:O	3:N:204:LEU:HG	2.13	0.49
3:N:526:PRO:HB2	5:P:317:LEU:HD11	1.95	0.49
3:N:817:GLU:O	3:N:821:VAL:HG23	2.12	0.49
5:P:160:ASP:HB2	9:P:4635:HOH:O	2.11	0.49
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.94	0.49
1:A:14:ARG:HH21	1:A:22:GLU:CB	2.21	0.49
1:B:62:LEU:HD23	9:B:9681:HOH:O	2.12	0.49
2:C:232:GLU:CA	2:C:235:LEU:HD12	2.33	0.49
2:C:437:ARG:HG3	2:C:469:THR:HB	1.94	0.49
3:D:1050:GLY:HA2	9:D:9762:HOH:O	2.12	0.49
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.48	0.49
3:D:905:PRO:HD3	9:D:2488:HOH:O	2.12	0.49
5:F:323:ASP:O	5:F:325:LYS:N	2.46	0.49
1:L:184:THR:O	1:L:192:LEU:HB2	2.12	0.49
2:M:1049:LEU:HD11	2:M:1053:LEU:HD21	1.93	0.49
2:M:191:PHE:CZ	2:M:196:LEU:HB2	2.44	0.49
2:M:720:GLU:HA	2:M:759:THR:O	2.13	0.49
2:M:833:LEU:HD12	2:M:834:GLN:H	1.77	0.49
3:N:1020:LEU:HB2	9:N:9719:HOH:O	2.11	0.49
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.78	0.49
3:N:1459:LEU:HD13	3:N:1465:ASN:HD21	1.77	0.49
3:N:992:ILE:O	3:N:995:LEU:HB3	2.13	0.49
4:O:45:ARG:HB2	4:O:46:PRO:CD	2.43	0.49
5:P:195:VAL:HG12	5:P:213:ILE:HG23	1.94	0.49
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.95	0.49
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.43	0.49
2:C:532:MET:HE3	9:C:9909:HOH:O	2.12	0.49
3:D:907:GLU:HG3	3:D:1026:SER:HA	1.94	0.49
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:3:LYS:H	3:D:3:LYS:HD3	1.76	0.49
3:D:409:VAL:HG21	9:F:9706:HOH:O	2.11	0.49
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.94	0.49
3:D:584:ASN:HB2	3:D:602:SER:HB3	1.93	0.49
3:D:600:LEU:HB3	9:D:9656:HOH:O	2.13	0.49
4:E:22:VAL:HG21	4:E:75:PHE:CD1	2.48	0.49
1:K:91:ASN:OD1	1:K:92:PRO:HD2	2.13	0.49
2:M:100:LEU:HD21	2:M:368:THR:CA	2.42	0.49
2:M:1097:LEU:H	2:M:1097:LEU:CD2	2.25	0.49
2:M:1101:THR:HB	2:M:1109:VAL:HG12	1.95	0.49
2:M:863:ASP:O	2:M:865:THR:N	2.45	0.49
3:N:11:ALA:HB1	3:N:507:ASN:OD1	2.13	0.49
3:N:1205:TYR:O	3:N:1366:LYS:HD3	2.12	0.49
3:N:1280:VAL:HG23	3:N:1295:GLU:O	2.12	0.49
3:N:172:PRO:HB3	3:N:178:LEU:HB3	1.93	0.49
3:N:198:ARG:HD3	9:N:2083:HOH:O	2.12	0.49
3:N:524:LEU:C	3:N:526:PRO:HD3	2.33	0.49
3:N:563:PRO:O	3:N:567:ILE:HG13	2.12	0.49
3:N:703:ASN:ND2	3:N:704:ARG:H	2.10	0.49
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.95	0.49
5:P:266:GLU:HA	9:P:6839:HOH:O	2.12	0.49
1:B:189:ARG:HG2	9:B:9767:HOH:O	2.13	0.49
2:C:1000:MET:HG3	9:C:2365:HOH:O	2.13	0.49
2:C:1016:ILE:CD1	3:D:526:PRO:HG2	2.43	0.49
2:C:1104:GLU:HB3	9:D:9955:HOH:O	2.12	0.49
2:C:16:PRO:HB3	2:C:460:ARG:HH22	1.77	0.49
2:C:235:LEU:HB2	9:C:9661:HOH:O	2.13	0.49
2:C:356:ARG:HA	9:C:9719:HOH:O	2.13	0.49
2:C:564:MET:SD	2:C:846:LYS:HG3	2.53	0.49
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.77	0.49
3:D:1203:LYS:HG3	9:D:2820:HOH:O	2.12	0.49
3:D:1198:TYR:OH	3:D:1432:LYS:HG2	2.13	0.49
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.78	0.49
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.43	0.49
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.41	0.49
3:D:827:ILE:O	3:D:837:GLY:HA3	2.13	0.49
4:E:17:TYR:N	4:E:17:TYR:CD2	2.80	0.49
5:F:256:ARG:HD2	9:F:9723:HOH:O	2.12	0.49
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.27	0.49
2:M:145:GLY:C	2:M:163:ILE:HG23	2.33	0.49
2:M:268:ASP:HB2	2:M:272:ALA:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:62:GLY:O	2:M:103:LYS:HG3	2.12	0.49
2:M:918:LEU:HD23	2:M:968:LEU:CA	2.42	0.49
3:N:103:TRP:HH2	3:N:1447:LEU:HD23	1.76	0.49
3:N:186:VAL:HG13	3:N:187:LYS:N	2.28	0.49
3:N:562:ALA:HB1	3:N:567:ILE:HD11	1.94	0.49
3:N:785:ILE:HG12	3:N:935:LYS:HA	1.95	0.49
1:A:54:THR:HG21	9:A:9616:HOH:O	2.13	0.49
1:B:165:ILE:HG12	9:B:9582:HOH:O	2.12	0.49
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.77	0.49
2:C:254:VAL:HG13	2:C:258:TYR:CE1	2.47	0.49
2:C:285:LEU:HD23	2:C:287:GLY:H	1.77	0.49
2:C:202:TYR:OH	2:C:304:LEU:HD22	2.12	0.49
2:C:537:LYS:HD2	2:C:537:LYS:H	1.77	0.49
2:C:889:HIS:CE1	3:D:951:ILE:H	2.31	0.49
3:D:168:THR:OG1	3:D:393:ILE:HB	2.13	0.49
3:D:171:LEU:HB2	3:D:390:PRO:HA	1.94	0.49
4:E:64:ALA:HA	4:E:67:GLU:CD	2.33	0.49
5:F:217:ASN:O	5:F:221:ILE:HG13	2.12	0.49
5:F:261:PRO:HA	9:F:9657:HOH:O	2.12	0.49
2:M:1016:ILE:HD11	5:P:330:GLY:O	2.13	0.49
2:M:188:LYS:HD2	9:M:2372:HOH:O	2.13	0.49
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.43	0.49
2:M:140:ILE:HD11	2:M:412:ALA:HA	1.95	0.49
3:N:1068:LEU:C	3:N:1070:TYR:N	2.65	0.49
3:N:210:ARG:HD3	9:N:2267:HOH:O	2.13	0.49
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.94	0.49
3:N:774:SER:C	3:N:776:GLU:H	2.16	0.49
1:A:178:ALA:HB2	2:C:864:GLY:H	1.77	0.48
1:A:23:PHE:HE1	1:A:208:LEU:HD13	1.77	0.48
1:A:86:VAL:HA	9:A:9642:HOH:O	2.12	0.48
2:C:1075:ASP:HB3	4:E:32:ARG:NH1	2.28	0.48
2:C:216:GLU:OE1	2:C:217:LEU:HG	2.13	0.48
2:C:265:ARG:N	9:C:9833:HOH:O	2.45	0.48
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.77	0.48
3:D:1097:LYS:O	3:D:1101:VAL:HG23	2.12	0.48
3:D:1149:LEU:HD12	3:D:1161:GLU:O	2.13	0.48
3:D:126:VAL:O	3:D:132:TYR:CD1	2.65	0.48
3:D:131:LYS:HD2	5:F:83:GLN:NE2	2.28	0.48
3:D:397:LYS:HZ1	3:D:399:ARG:HH21	1.60	0.48
3:D:41:ARG:HG2	9:D:9791:HOH:O	2.13	0.48
3:D:42:ASP:O	3:D:46:ASP:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:48:MET:HB3	4:E:54:LEU:HB2	1.93	0.48
5:F:151:LEU:HD21	9:F:9796:HOH:O	2.11	0.48
1:L:75:VAL:O	1:L:79:ILE:HG23	2.12	0.48
2:M:1008:ARG:NH2	2:M:1028:GLY:HA2	2.27	0.48
2:M:115:LEU:HA	2:M:375:SER:OG	2.13	0.48
2:M:141:HIS:HB2	9:M:2274:HOH:O	2.12	0.48
2:M:264:PRO:HB3	2:M:289:THR:CG2	2.43	0.48
2:M:139:GLN:NE2	2:M:415:PRO:HG2	2.26	0.48
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.95	0.48
2:M:724:ARG:HG2	2:M:737:LEU:HD22	1.94	0.48
3:N:1129:THR:C	3:N:1130:ARG:HD2	2.33	0.48
3:N:1166:LEU:HD23	3:N:1166:LEU:N	2.22	0.48
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.27	0.48
3:N:1480:PHE:CD2	3:N:1481:VAL:HG22	2.37	0.48
3:N:838:ARG:HB2	9:N:2421:HOH:O	2.12	0.48
5:P:338:LEU:HB2	9:P:5855:HOH:O	2.13	0.48
5:P:409:LYS:HE3	5:P:410:TYR:CD1	2.48	0.48
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.42	0.48
2:C:473:ARG:HA	2:C:531:PHE:HD1	1.77	0.48
2:C:731:GLU:OE2	2:C:734:LEU:HB3	2.13	0.48
3:D:100:ALA:HB2	9:D:2526:HOH:O	2.13	0.48
3:D:427:VAL:HB	3:D:435:VAL:HB	1.95	0.48
3:D:521:PRO:O	3:D:525:ARG:HG2	2.13	0.48
3:D:661:MET:HE2	3:D:677:LEU:HD11	1.95	0.48
5:F:297:PRO:HD2	9:F:9885:HOH:O	2.12	0.48
2:C:1014:SER:HB2	5:F:331:ASP:O	2.13	0.48
1:K:90:LEU:HB3	9:K:6576:HOH:O	2.13	0.48
1:L:159:LYS:HE2	9:L:5625:HOH:O	2.13	0.48
1:L:55:SER:HB3	9:L:4758:HOH:O	2.13	0.48
2:M:331:ARG:NH1	2:M:427:VAL:HG13	2.27	0.48
2:M:822:VAL:HG21	2:M:824:ARG:NH2	2.28	0.48
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.95	0.48
2:M:855:VAL:HG12	9:M:9776:HOH:O	2.12	0.48
3:N:1176:LYS:HA	3:N:1179:GLU:OE1	2.14	0.48
3:N:1243:THR:HG22	3:N:1244:GLY:H	1.77	0.48
3:N:1416:ALA:HA	9:N:9795:HOH:O	2.13	0.48
3:N:1475:GLY:HA2	4:O:17:TYR:CD1	2.48	0.48
3:N:452:ILE:HG23	3:N:452:ILE:O	2.14	0.48
3:N:704:ARG:HG3	3:N:736:PHE:CB	2.42	0.48
3:N:759:ALA:O	3:N:763:MET:HB3	2.13	0.48
3:N:788:GLY:O	3:N:792:ILE:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:820:GLU:HG2	3:N:825:ALA:O	2.13	0.48
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.95	0.48
3:N:928:ALA:O	3:N:931:LEU:HB2	2.13	0.48
4:O:17:TYR:HD2	4:O:17:TYR:N	2.10	0.48
1:A:215:VAL:HB	1:B:222:LEU:HD23	1.94	0.48
2:C:133:ASP:HB2	2:C:395:LYS:HB2	1.94	0.48
2:C:267:TYR:CD1	2:C:272:ALA:HB1	2.48	0.48
2:C:41:ASN:N	2:C:41:ASN:ND2	2.44	0.48
2:C:486:MET:CE	2:C:491:GLU:HA	2.43	0.48
2:C:726:ILE:HG21	9:C:2381:HOH:O	2.14	0.48
2:C:818:GLY:HA2	9:F:9939:HOH:O	2.12	0.48
3:D:8:VAL:O	3:D:1434:TRP:HH2	1.96	0.48
3:D:183:GLU:OE1	3:D:216:VAL:HG21	2.13	0.48
3:D:235:ALA:HB3	9:D:9702:HOH:O	2.14	0.48
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.44	0.48
5:F:393:THR:O	5:F:397:ILE:HG13	2.13	0.48
1:K:128:HIS:HB2	9:K:5129:HOH:O	2.13	0.48
1:K:184:THR:O	1:K:192:LEU:HD12	2.14	0.48
2:M:141:HIS:O	2:M:332:ARG:N	2.44	0.48
2:M:175:GLU:HA	9:M:9821:HOH:O	2.12	0.48
2:M:198:ARG:HD2	2:M:228:ALA:O	2.13	0.48
2:M:952:LEU:HD22	2:M:952:LEU:N	2.27	0.48
3:N:1083:ASP:HB3	3:N:1087:ARG:HH11	1.78	0.48
3:N:1152:GLU:HG2	3:N:1160:LEU:O	2.12	0.48
3:N:135:LEU:HD21	3:N:138:LYS:C	2.34	0.48
5:P:292:ALA:HB1	5:P:299:TRP:O	2.13	0.48
5:P:397:ILE:HD11	9:P:3604:HOH:O	2.13	0.48
1:A:82:LEU:O	1:A:85:LEU:HB3	2.13	0.48
1:B:65:PHE:HE1	3:D:806:PHE:CZ	2.30	0.48
2:C:208:ALA:HA	2:C:221:LEU:HD21	1.95	0.48
2:C:285:LEU:HG	2:C:287:GLY:O	2.13	0.48
2:C:313:LEU:HB2	2:C:321:GLU:HG3	1.95	0.48
2:C:332:ARG:HG2	2:C:333:ILE:N	2.28	0.48
2:C:586:ARG:HD2	2:C:590:ASP:OD2	2.12	0.48
2:C:632:ASN:HB2	2:C:633:GLN:OE1	2.14	0.48
2:C:745:ILE:HG13	9:C:9560:HOH:O	2.13	0.48
2:C:754:ILE:HD13	2:C:791:ARG:CD	2.44	0.48
3:D:1119:SER:HA	3:D:1186:VAL:O	2.13	0.48
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.43	0.48
3:D:169:TYR:N	3:D:170:PRO:CD	2.76	0.48
3:D:221:ALA:HA	9:D:2023:HOH:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:720:LEU:CD1	3:D:720:LEU:H	2.21	0.48
3:D:850:LEU:O	3:D:853:VAL:HB	2.13	0.48
5:F:260:ILE:CG2	5:F:264:MET:HB2	2.42	0.48
5:F:303:ARG:HB2	9:F:9813:HOH:O	2.12	0.48
1:L:208:LEU:HD23	9:L:3621:HOH:O	2.14	0.48
2:M:184:MET:HE3	2:M:186:VAL:HG13	1.95	0.48
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.94	0.48
2:M:231:PRO:HB2	9:M:9582:HOH:O	2.12	0.48
2:M:403:SER:O	2:M:407:LYS:HG3	2.14	0.48
2:M:474:VAL:HG23	2:M:478:VAL:O	2.13	0.48
3:N:151:GLN:HB3	9:N:2161:HOH:O	2.13	0.48
3:N:471:GLU:O	3:N:475:LYS:HG3	2.13	0.48
3:N:639:LEU:HD11	3:N:928:ALA:HB1	1.94	0.48
3:N:683:ILE:HG23	3:N:687:VAL:HG21	1.95	0.48
3:N:999:THR:HA	3:N:1002:LYS:HD2	1.94	0.48
5:P:323:ASP:HB3	5:P:325:LYS:CE	2.43	0.48
1:A:198:ARG:C	1:A:199:ILE:HD12	2.33	0.48
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.14	0.48
2:C:1033:GLY:HA3	9:C:2546:HOH:O	2.14	0.48
2:C:158:TYR:HE1	2:C:313:LEU:HG	1.76	0.48
2:C:643:VAL:HB	9:C:9995:HOH:O	2.12	0.48
2:C:588:VAL:HG21	2:C:664:GLY:O	2.13	0.48
2:C:72:ARG:HG3	2:C:72:ARG:NH1	2.29	0.48
2:C:774:LEU:HG	2:C:775:ARG:HH11	1.78	0.48
2:C:842:ARG:NH2	2:C:887:GLU:OE1	2.47	0.48
3:D:197:SER:CB	3:D:203:ALA:HB3	2.26	0.48
3:D:890:VAL:HG13	3:D:926:LYS:HZ3	1.76	0.48
3:D:573:MET:CE	5:F:210:LEU:HB3	2.44	0.48
5:F:372:ARG:HB2	9:F:9662:HOH:O	2.13	0.48
1:K:127:LEU:HD11	1:K:129:ILE:HD13	1.94	0.48
1:K:102:LYS:HE2	1:K:139:ASN:ND2	2.28	0.48
2:M:479:VAL:HG22	2:M:508:ILE:HD13	1.94	0.48
2:M:484:VAL:HA	9:M:9640:HOH:O	2.14	0.48
2:M:598:GLU:HB3	9:M:9689:HOH:O	2.14	0.48
2:M:601:GLY:HA3	2:M:615:TYR:HA	1.94	0.48
2:M:722:ILE:HG13	2:M:757:GLY:O	2.12	0.48
2:M:833:LEU:HA	9:M:9723:HOH:O	2.12	0.48
3:N:1212:ALA:HB3	9:N:9663:HOH:O	2.13	0.48
3:N:126:VAL:O	3:N:132:TYR:HD1	1.95	0.48
3:N:1283:ILE:HG23	3:N:1290:LEU:HD21	1.94	0.48
3:N:1437:ALA:HA	3:N:1440:PHE:CE1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:66:LYS:HE3	9:O:4365:HOH:O	2.12	0.48
5:P:406:ARG:CA	5:P:409:LYS:HG2	2.41	0.48
1:B:76:VAL:HA	1:B:79:ILE:HG12	1.96	0.48
2:C:383:ARG:HB2	2:C:383:ARG:CZ	2.44	0.48
2:C:625:LEU:O	2:C:627:ARG:N	2.47	0.48
2:C:64:LEU:HB2	2:C:359:MET:SD	2.52	0.48
3:D:117:ASP:HB2	3:D:495:ARG:CZ	2.43	0.48
3:D:1462:LEU:HD23	3:D:1462:LEU:N	2.29	0.48
3:D:820:GLU:HA	3:D:825:ALA:O	2.13	0.48
3:D:890:VAL:HG13	3:D:926:LYS:HZ1	1.76	0.48
2:C:876:VAL:CG2	3:D:949:ILE:HG13	2.43	0.48
4:E:50:THR:HB	9:E:9581:HOH:O	2.14	0.48
5:F:234:LYS:CD	5:F:236:SER:HB3	2.43	0.48
5:F:296:GLY:HA3	9:F:9885:HOH:O	2.13	0.48
5:F:81:VAL:O	5:F:85:LEU:HB2	2.13	0.48
1:K:181:VAL:HG12	2:M:938:LYS:HZ2	1.79	0.48
2:M:163:ILE:HB	2:M:171:TRP:CZ2	2.48	0.48
2:M:371:LYS:HB2	9:M:9605:HOH:O	2.12	0.48
2:M:580:MET:HB2	9:M:2487:HOH:O	2.14	0.48
2:M:732:ALA:O	2:M:735:ARG:HG3	2.13	0.48
2:M:910:LYS:HB3	2:M:912:PRO:HD2	1.96	0.48
2:M:98:LEU:HB2	9:M:9745:HOH:O	2.12	0.48
3:N:1034:GLN:O	3:N:1037:GLN:HG3	2.14	0.48
3:N:1310:ARG:HD3	9:N:2012:HOH:O	2.12	0.48
3:N:1118:ILE:HG21	3:N:1346:ARG:HH12	1.77	0.48
3:N:469:ASP:HA	9:N:2490:HOH:O	2.13	0.48
3:N:96:ALA:N	3:N:551:ASN:HD21	2.10	0.48
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.43	0.48
4:O:52:GLU:HB3	4:O:55:PHE:CZ	2.49	0.48
5:P:335:ASP:HB3	9:P:5855:HOH:O	2.12	0.48
5:P:358:LEU:HD21	5:P:370:LYS:HG3	1.96	0.48
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.95	0.48
2:C:101:ILE:HD12	2:C:107:LEU:HD13	1.95	0.48
2:C:1021:LEU:HG	2:C:1022:GLY:N	2.28	0.48
2:C:103:LYS:HG3	9:C:2004:HOH:O	2.12	0.48
2:C:212:GLY:C	2:C:215:GLY:H	2.17	0.48
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.96	0.48
2:C:165:LEU:O	2:C:265:ARG:HD2	2.13	0.48
2:C:56:GLU:CG	2:C:64:LEU:HD23	2.44	0.48
2:C:85:GLU:HB3	2:C:86:LYS:HD2	1.94	0.48
3:D:1003:VAL:O	3:D:1007:VAL:HG13	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1261:GLU:HB2	9:D:2175:HOH:O	2.13	0.48
3:D:1269:LYS:HD3	9:D:2172:HOH:O	2.13	0.48
3:D:1379:VAL:HA	3:D:1420:LEU:CB	2.44	0.48
3:D:519:VAL:HG13	3:D:544:TYR:CE1	2.49	0.48
2:C:1005:MET:HE3	3:D:648:MET:HB2	1.93	0.48
3:D:690:ALA:O	3:D:694:VAL:HG23	2.13	0.48
3:D:811:GLU:HB3	9:D:2229:HOH:O	2.13	0.48
3:D:996:TRP:HA	3:D:999:THR:CG2	2.42	0.48
4:E:54:LEU:HD21	9:E:9513:HOH:O	2.12	0.48
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.48	0.48
1:L:212:ASN:N	1:L:212:ASN:HD22	2.10	0.48
2:M:445:GLU:HG2	9:M:9869:HOH:O	2.14	0.48
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.96	0.48
2:M:873:PRO:O	2:M:876:VAL:HG23	2.13	0.48
3:N:1156:LEU:HD13	3:N:1176:LYS:HD2	1.96	0.48
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.95	0.48
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.44	0.48
5:P:287:THR:N	5:P:290:GLU:OE1	2.47	0.48
1:A:198:ARG:NH2	2:C:932:GLU:HG2	2.28	0.48
2:C:1076:VAL:HG23	3:D:752:SER:HA	1.94	0.48
2:C:717:LEU:HD22	9:C:9827:HOH:O	2.14	0.48
2:C:737:LEU:HD22	2:C:741:GLY:O	2.14	0.48
2:C:886:LEU:HG	3:D:951:ILE:CG1	2.41	0.48
3:D:1090:ASP:O	3:D:1093:TYR:N	2.47	0.48
3:D:1128:VAL:O	3:D:1129:THR:C	2.52	0.48
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	2.14	0.48
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.79	0.48
3:D:36:THR:O	3:D:38:LYS:N	2.47	0.48
3:D:422:ALA:O	3:D:427:VAL:HG21	2.14	0.48
5:F:128:ARG:O	5:F:132:ARG:HG2	2.14	0.48
5:F:171:LYS:HG3	5:F:175:HIS:CD2	2.48	0.48
5:F:312:GLN:HB2	9:F:9679:HOH:O	2.12	0.48
5:F:358:LEU:HD21	5:F:370:LYS:HE3	1.96	0.48
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.49	0.48
1:L:46:SER:O	1:L:148:VAL:HB	2.13	0.48
2:M:572:ILE:CG2	2:M:703:ILE:HD13	2.44	0.48
3:N:1197:ARG:HG3	9:N:9686:HOH:O	2.13	0.48
3:N:421:LEU:HD12	3:N:435:VAL:CG1	2.43	0.48
3:N:984:THR:HG21	9:N:9778:HOH:O	2.13	0.48
1:A:183:ASP:HB3	9:A:9739:HOH:O	2.13	0.48
1:A:19:GLU:O	1:A:200:TRP:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.14	0.48
2:C:1068:GLU:HG2	9:C:2098:HOH:O	2.14	0.48
2:C:114:PHE:CD1	2:C:114:PHE:N	2.79	0.48
2:C:181:VAL:HG11	9:C:2375:HOH:O	2.13	0.48
2:C:358:ARG:HB3	2:C:371:LYS:O	2.14	0.48
2:C:776:SER:HA	2:C:780:GLU:HB3	1.96	0.48
2:C:897:LEU:HB3	2:C:899:GLN:NE2	2.28	0.48
2:C:915:LYS:O	2:C:968:LEU:HD22	2.14	0.48
2:C:943:VAL:HG11	2:C:973:VAL:HG22	1.96	0.48
3:D:957:PRO:HA	3:D:1010:ASN:ND2	2.29	0.48
3:D:1130:ARG:CB	3:D:1130:ARG:HH11	2.21	0.48
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.95	0.48
3:D:1399:ASP:HB3	9:D:2288:HOH:O	2.13	0.48
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.43	0.48
3:D:521:PRO:C	3:D:525:ARG:HH11	2.17	0.48
3:D:692:GLU:HG3	9:D:2470:HOH:O	2.13	0.48
5:F:153:PRO:HG2	5:F:154:LYS:H	1.79	0.48
2:M:176:VAL:C	2:M:178:PRO:HD3	2.34	0.48
2:M:435:TYR:C	2:M:437:ARG:H	2.17	0.48
2:M:683:ASN:O	2:M:872:ASN:ND2	2.46	0.48
2:M:911:GLU:O	2:M:915:LYS:HG2	2.14	0.48
3:N:949:ILE:HD11	3:N:1023:MET:CE	2.44	0.48
9:M:9654:HOH:O	3:N:1038:LEU:HG	2.13	0.48
3:N:28:LYS:O	3:N:43:GLY:HA2	2.13	0.48
3:N:18:ILE:HD12	3:N:518:PRO:CD	2.44	0.48
3:N:47:GLU:OE1	3:N:52:PRO:HA	2.14	0.48
3:N:68:PHE:O	3:N:71:LYS:HG2	2.14	0.48
5:P:112:ALA:HA	5:P:173:TYR:CD2	2.47	0.48
3:N:535:PHE:CB	5:P:314:PRO:HB3	2.41	0.48
3:N:131:LYS:HE3	5:P:83:GLN:NE2	2.29	0.48
2:C:1054:THR:CG2	2:C:1059:ASP:HB2	2.44	0.48
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.95	0.48
2:C:724:ARG:HH12	2:C:734:LEU:HD23	1.79	0.48
2:C:975:TYR:HA	2:C:982:PRO:HA	1.95	0.48
3:D:1031:ASN:O	3:D:1035:ILE:HG12	2.13	0.48
3:D:1008:PHE:HZ	3:D:1032:PRO:HA	1.79	0.48
3:D:186:VAL:HA	9:D:2144:HOH:O	2.12	0.48
3:D:421:LEU:HD11	3:D:437:VAL:HG22	1.95	0.48
3:D:756:GLN:O	3:D:760:ARG:HG2	2.12	0.48
2:M:501:THR:HG22	9:M:9802:HOH:O	2.14	0.48
2:M:551:GLU:HG3	2:M:552:HIS:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:897:LEU:HB3	2:M:899:GLN:HG2	1.96	0.48
2:M:565:GLN:HG2	2:M:995:MET:HE2	1.96	0.48
3:N:1036:ARG:HH21	3:N:1043:GLY:H	1.62	0.48
3:N:1493:LYS:HA	3:N:1496:GLU:HG2	1.96	0.48
3:N:172:PRO:HB3	3:N:178:LEU:CB	2.44	0.48
3:N:413:ASP:OD1	3:N:421:LEU:HD22	2.14	0.48
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.95	0.48
3:N:699:VAL:HG12	3:N:717:GLN:HG3	1.96	0.48
3:N:882:PHE:O	3:N:886:VAL:HG23	2.14	0.48
5:P:193:ARG:HG2	9:P:6583:HOH:O	2.13	0.48
1:A:109:VAL:HG23	9:A:9621:HOH:O	2.13	0.47
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.94	0.47
2:C:1084:SER:O	2:C:1087:VAL:HG12	2.13	0.47
2:C:155:PRO:HD2	9:C:9771:HOH:O	2.14	0.47
2:C:318:PRO:HB3	9:C:9983:HOH:O	2.13	0.47
2:C:334:ARG:NH1	2:C:415:PRO:HG2	2.29	0.47
2:C:479:VAL:HG22	2:C:508:ILE:HD13	1.95	0.47
2:C:559:LEU:HD23	2:C:560:MET:N	2.29	0.47
2:C:640:ARG:HH11	2:C:642:ARG:HH22	1.60	0.47
2:C:729:LEU:HD21	5:F:419:ARG:NH1	2.28	0.47
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.79	0.47
3:D:205:TYR:HD2	9:D:2180:HOH:O	1.96	0.47
3:D:86:ARG:NH1	3:D:86:ARG:HG2	2.28	0.47
4:E:70:THR:HG22	4:E:72:ARG:HG3	1.96	0.47
5:F:358:LEU:CD2	5:F:370:LYS:HE3	2.44	0.47
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.94	0.47
2:M:274:ARG:O	2:M:274:ARG:HG2	2.14	0.47
2:M:357:GLU:HG2	9:M:2237:HOH:O	2.13	0.47
2:M:451:LEU:HD12	2:M:451:LEU:H	1.79	0.47
2:M:517:ARG:NH1	2:M:522:VAL:HG11	2.29	0.47
3:N:1187:PRO:O	3:N:1188:VAL:HG23	2.14	0.47
3:N:462:GLN:HA	3:N:513:ILE:CD1	2.43	0.47
3:N:50:PHE:HB3	3:N:522:PRO:HG2	1.96	0.47
3:N:12:LEU:HD22	3:N:511:TRP:CB	2.44	0.47
4:O:34:GLY:HA3	9:O:3795:HOH:O	2.13	0.47
5:P:208:SER:HB2	5:P:211:ASP:OD1	2.14	0.47
5:P:357:ALA:HA	9:P:6501:HOH:O	2.12	0.47
1:B:188:GLN:HG3	9:B:9555:HOH:O	2.14	0.47
1:A:219:ARG:HH22	1:B:223:THR:CG2	2.27	0.47
2:C:761:PHE:CD1	2:C:761:PHE:N	2.82	0.47
3:D:1033:GLN:NE2	3:D:1036:ARG:HH11	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1055:VAL:HG13	9:D:9682:HOH:O	2.15	0.47
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.15	0.47
3:D:1264:GLU:OE2	3:D:1424:VAL:N	2.47	0.47
3:D:171:LEU:HD13	3:D:389:GLU:C	2.34	0.47
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.44	0.47
3:D:717:GLN:HG2	9:D:9975:HOH:O	2.14	0.47
3:D:928:ALA:O	3:D:931:LEU:HB2	2.14	0.47
4:E:87:LYS:HB2	9:E:9533:HOH:O	2.15	0.47
1:K:102:LYS:HE2	1:K:139:ASN:CG	2.34	0.47
1:K:9:PRO:HB3	1:K:25:LEU:CD2	2.44	0.47
2:M:1114:GLY:H	2:M:1115:LEU:CD1	2.13	0.47
2:M:170:PRO:HG2	2:M:258:TYR:CD2	2.49	0.47
2:M:672:VAL:HA	9:M:9988:HOH:O	2.14	0.47
2:M:909:ALA:C	2:M:910:LYS:HD2	2.34	0.47
3:N:1097:LYS:O	3:N:1101:VAL:HG23	2.14	0.47
3:N:127:LEU:HD12	3:N:128:TYR:N	2.29	0.47
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.43	0.47
3:N:177:ALA:HB1	3:N:199:LEU:HB3	1.95	0.47
3:N:396:VAL:HG23	9:N:2489:HOH:O	2.13	0.47
3:N:520:LEU:HD12	3:N:521:PRO:CD	2.36	0.47
2:M:1115:LEU:CB	3:N:85:VAL:HG12	2.43	0.47
5:P:141:VAL:HB	9:P:3900:HOH:O	2.14	0.47
2:C:137:VAL:HG11	9:C:9854:HOH:O	2.14	0.47
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.78	0.47
2:C:534:VAL:H	2:C:538:GLN:NE2	2.11	0.47
2:C:704:HIS:HB2	2:C:831:ARG:NE	2.29	0.47
2:C:926:PHE:CD2	2:C:930:LYS:HE2	2.50	0.47
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	2.14	0.47
3:D:191:LEU:HD22	3:D:195:VAL:HG21	1.96	0.47
3:D:30:GLU:N	9:D:9793:HOH:O	2.48	0.47
3:D:619:LEU:HD23	3:D:619:LEU:C	2.35	0.47
3:D:994:GLN:O	3:D:998:GLU:HG3	2.14	0.47
5:F:256:ARG:NE	5:F:260:ILE:HD12	2.28	0.47
1:L:184:THR:HG23	1:L:192:LEU:HB3	1.94	0.47
2:M:143:SER:HB3	2:M:332:ARG:HB2	1.96	0.47
2:M:206:THR:O	2:M:210:GLU:HG3	2.14	0.47
2:M:313:LEU:HD21	9:M:9818:HOH:O	2.14	0.47
2:M:48:PHE:HD2	9:M:9965:HOH:O	1.98	0.47
2:M:401:LEU:HD11	2:M:546:LEU:HD11	1.96	0.47
2:M:834:GLN:HG3	2:M:837:ASP:OD1	2.13	0.47
3:N:27:GLU:O	3:N:28:LYS:HD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:624:ASP:HB3	3:N:625:TYR:CD1	2.49	0.47
3:N:679:ARG:NH2	3:N:681:ARG:HE	2.12	0.47
3:N:827:ILE:HG22	9:N:9576:HOH:O	2.14	0.47
2:M:1115:LEU:HD21	3:N:84:ILE:HD12	1.96	0.47
4:O:33:HIS:HB3	9:O:4303:HOH:O	2.14	0.47
4:O:51:LEU:HG	4:O:53:GLY:N	2.23	0.47
5:P:323:ASP:C	5:P:325:LYS:H	2.18	0.47
1:A:54:THR:HG23	1:A:156:HIS:CE1	2.49	0.47
1:A:223:THR:HG21	9:A:9697:HOH:O	2.15	0.47
1:B:123:MET:O	1:B:125:PRO:HD3	2.15	0.47
1:B:182:GLU:O	1:B:194:LYS:HB3	2.14	0.47
2:C:1111:ILE:HG13	9:C:2143:HOH:O	2.14	0.47
2:C:173:ASP:O	2:C:184:MET:HA	2.14	0.47
2:C:517:ARG:NH1	2:C:524:VAL:HG23	2.30	0.47
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.29	0.47
2:C:654:LEU:HD13	2:C:664:GLY:N	2.29	0.47
2:C:681:GLY:C	3:D:635:PRO:HG2	2.35	0.47
2:C:68:PHE:HE1	2:C:96:ALA:HB1	1.79	0.47
2:C:808:ARG:HH11	2:C:808:ARG:HG2	1.79	0.47
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.15	0.47
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.14	0.47
3:D:1476:THR:HA	9:E:9539:HOH:O	2.13	0.47
3:D:520:LEU:CD2	3:D:540:LEU:HD22	2.45	0.47
5:F:120:THR:HA	9:F:9593:HOH:O	2.15	0.47
5:F:141:VAL:O	5:F:145:PRO:HD2	2.14	0.47
5:F:392:VAL:HG22	9:F:9999:HOH:O	2.14	0.47
1:K:115:LEU:HD13	9:K:4988:HOH:O	2.14	0.47
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.49	0.47
1:K:25:LEU:C	1:K:25:LEU:HD23	2.35	0.47
2:M:1055:LEU:HD22	2:M:1066:ALA:HB2	1.97	0.47
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.30	0.47
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.43	0.47
2:M:380:ALA:HA	2:M:383:ARG:HD3	1.97	0.47
2:M:383:ARG:HG3	9:M:9841:HOH:O	2.13	0.47
2:M:380:ALA:O	2:M:384:GLU:HB2	2.13	0.47
2:M:413:LEU:HB3	9:M:2107:HOH:O	2.13	0.47
2:M:944:LEU:O	2:M:948:GLU:HG3	2.14	0.47
3:N:1192:LEU:HD21	3:N:1345:GLU:HB3	1.97	0.47
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.96	0.47
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.96	0.47
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:571:LYS:NZ	3:N:571:LYS:HB2	2.29	0.47
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.45	0.47
4:O:42:PRO:HG3	9:O:4575:HOH:O	2.15	0.47
4:O:86:GLN:O	4:O:90:GLU:HG3	2.14	0.47
1:A:50:GLY:O	1:A:146:ARG:HA	2.14	0.47
1:A:20:TYR:CD2	1:A:21:GLY:N	2.82	0.47
2:C:1087:VAL:HG22	2:C:1091:GLU:OE2	2.14	0.47
2:C:1095:LEU:HD23	3:D:582:LEU:HD22	1.95	0.47
2:C:19:THR:HG21	2:C:124:ASP:O	2.14	0.47
2:C:227:PHE:HD2	2:C:230:ARG:HH21	1.63	0.47
2:C:396:ASP:HB2	2:C:406:HIS:CD2	2.49	0.47
2:C:433:THR:O	2:C:433:THR:HG22	2.14	0.47
2:C:471:TYR:CD1	2:C:486:MET:HE1	2.50	0.47
2:C:555:ALA:HA	3:D:1070:TYR:OH	2.13	0.47
3:D:1232:PRO:HA	3:D:1235:GLN:OE1	2.14	0.47
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.14	0.47
3:D:1377:LYS:HD2	9:D:2614:HOH:O	2.14	0.47
3:D:36:THR:HB	3:D:38:LYS:HG3	1.96	0.47
3:D:427:VAL:HG21	3:D:435:VAL:HB	1.94	0.47
3:D:454:ALA:C	3:D:455:ARG:HD2	2.35	0.47
3:D:70:GLY:N	3:D:71:LYS:HE3	2.28	0.47
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.96	0.47
5:F:358:LEU:HD12	5:F:367:MET:HE1	1.95	0.47
1:L:67:THR:HB	9:L:5724:HOH:O	2.13	0.47
2:M:31:GLN:NE2	9:M:9625:HOH:O	2.47	0.47
2:M:626:ARG:CB	2:M:626:ARG:HH11	2.27	0.47
2:M:780:GLU:O	2:M:782:ALA:N	2.48	0.47
2:M:945:ARG:HG3	2:M:949:LYS:HE3	1.95	0.47
3:N:1123:PHE:HA	3:N:1135:ARG:H	1.79	0.47
3:N:1141:GLU:HG2	3:N:1168:MET:HE1	1.95	0.47
3:N:1324:PRO:HA	9:N:9625:HOH:O	2.15	0.47
3:N:134:VAL:HG21	9:N:9914:HOH:O	2.14	0.47
3:N:1413:THR:HG21	9:N:9838:HOH:O	2.14	0.47
3:N:470:LEU:HG	9:N:2490:HOH:O	2.12	0.47
3:N:669:ASN:O	3:N:672:ALA:HB3	2.13	0.47
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.29	0.47
3:N:563:PRO:HA	5:P:185:GLN:HG2	1.95	0.47
5:P:369:LEU:O	5:P:373:LYS:HB2	2.14	0.47
5:P:408:LEU:HD13	5:P:411:HIS:HE1	1.79	0.47
5:P:416:ARG:HB2	9:P:6288:HOH:O	2.15	0.47
1:A:162:ILE:HA	9:A:9677:HOH:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:54:THR:HG22	1:B:158:ILE:HG13	1.95	0.47
2:C:146:VAL:HG13	2:C:161:SER:O	2.14	0.47
2:C:158:TYR:CE1	2:C:313:LEU:HG	2.49	0.47
2:C:557:ARG:HG3	2:C:560:MET:SD	2.55	0.47
2:C:605:LYS:HD2	2:C:612:VAL:HG21	1.96	0.47
2:C:914:ILE:HG22	2:C:915:LYS:HE3	1.97	0.47
2:C:91:GLN:HB2	9:C:9756:HOH:O	2.14	0.47
2:C:969:GLN:HB3	9:D:2189:HOH:O	2.15	0.47
3:D:1147:ARG:NH1	3:D:1190:SER:HB2	2.29	0.47
3:D:1363:LEU:HD12	3:D:1364:HIS:O	2.14	0.47
3:D:216:VAL:HG11	9:D:2023:HOH:O	2.13	0.47
3:D:416:ALA:HB3	3:D:417:PRO:HD3	1.97	0.47
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.95	0.47
3:D:838:ARG:HH11	3:D:874:GLU:HB3	1.79	0.47
5:F:102:LEU:CD1	5:F:187:LEU:HG	2.45	0.47
5:F:135:ILE:O	5:F:135:ILE:HD13	2.15	0.47
1:L:103:ALA:HB1	1:L:107:LYS:CE	2.40	0.47
2:M:13:ILE:HB	9:M:9847:HOH:O	2.14	0.47
2:M:253:ALA:HB3	9:M:9639:HOH:O	2.15	0.47
2:M:863:ASP:OD1	2:M:865:THR:HG22	2.15	0.47
2:M:996:LYS:HD2	9:M:9723:HOH:O	2.14	0.47
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.96	0.47
3:N:1128:VAL:HG13	9:N:9896:HOH:O	2.15	0.47
3:N:1143:GLY:HA2	3:N:1365:ASP:OD1	2.14	0.47
3:N:1262:LEU:HD11	3:N:1351:GLU:HG3	1.95	0.47
3:N:580:ALA:HA	3:N:584:ASN:OD1	2.14	0.47
3:N:750:PRO:HB2	3:N:756:GLN:OE1	2.14	0.47
3:N:827:ILE:O	3:N:837:GLY:HA3	2.14	0.47
2:M:1102:LEU:HD11	3:N:9:ARG:HB2	1.97	0.47
5:P:81:VAL:HG12	5:P:85:LEU:HG	1.95	0.47
1:A:18:ARG:NH2	1:A:88:ARG:NH2	2.62	0.47
2:C:794:PRO:HB2	2:C:1027:PHE:CZ	2.50	0.47
2:C:259:GLY:HA2	9:C:9711:HOH:O	2.13	0.47
2:C:603:VAL:HG22	2:C:613:VAL:HG12	1.96	0.47
2:C:723:THR:HG21	9:C:2057:HOH:O	2.15	0.47
2:C:80:GLN:O	2:C:83:CYS:HB2	2.14	0.47
3:D:108:VAL:HB	9:D:9737:HOH:O	2.15	0.47
3:D:196:VAL:HG13	3:D:202:VAL:HG13	1.96	0.47
3:D:33:ASN:HD21	3:D:35:ARG:CD	2.27	0.47
3:D:553:ARG:NH1	5:F:211:ASP:HA	2.30	0.47
3:D:973:GLN:HG2	9:D:2020:HOH:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:220:LEU:HB2	5:F:243:ILE:HD11	1.97	0.47
1:L:102:LYS:HE3	1:L:139:ASN:HB2	1.95	0.47
2:M:1013:TYR:OH	2:M:1063:ARG:HD2	2.15	0.47
2:M:420:ARG:CD	2:M:420:ARG:H	2.28	0.47
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.15	0.47
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.50	0.47
3:N:513:ILE:HA	9:N:9662:HOH:O	2.14	0.47
3:N:530:VAL:HG23	3:N:534:ARG:O	2.15	0.47
3:N:76:CYS:HB3	9:N:9734:HOH:O	2.13	0.47
3:N:809:PRO:O	3:N:812:ALA:HB3	2.15	0.47
5:P:147:LEU:HG	9:P:6001:HOH:O	2.15	0.47
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.97	0.47
5:P:286:PRO:HA	9:P:6329:HOH:O	2.14	0.47
5:P:399:GLN:O	5:P:403:LYS:HB2	2.14	0.47
1:B:48:ILE:HG22	1:B:173:PRO:HD2	1.97	0.47
2:C:196:LEU:H	2:C:196:LEU:HD12	1.79	0.47
2:C:262:ALA:HB1	9:C:2112:HOH:O	2.15	0.47
2:C:31:GLN:HE21	2:C:31:GLN:HB3	1.60	0.47
2:C:431:HIS:CD2	2:C:433:THR:HG1	2.33	0.47
2:C:704:HIS:O	2:C:705:ILE:HG13	2.14	0.47
2:C:957:LYS:HE2	2:C:965:GLU:OE2	2.15	0.47
3:D:1302:GLU:OE2	3:D:1304:LYS:HG3	2.15	0.47
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.15	0.47
3:D:704:ARG:HG2	3:D:736:PHE:HB3	1.96	0.47
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.50	0.47
1:L:190:THR:HA	9:L:4234:HOH:O	2.14	0.47
2:M:1037:VAL:O	2:M:1041:GLU:HG3	2.14	0.47
2:M:1090:LYS:HD2	3:N:90:MET:SD	2.55	0.47
2:M:150:PRO:HG3	2:M:158:TYR:HD2	1.80	0.47
2:M:169:GLY:CA	2:M:263:ASP:HB3	2.28	0.47
2:M:301:GLU:HG3	9:M:9587:HOH:O	2.15	0.47
2:M:302:VAL:O	2:M:306:THR:HG23	2.15	0.47
2:M:35:PRO:HD2	2:M:38:LYS:CG	2.45	0.47
2:M:49:ARG:NH1	2:M:49:ARG:HB2	2.29	0.47
2:M:971:LYS:HD2	2:M:986:PRO:HB2	1.96	0.47
3:N:1065:LEU:HB2	9:N:9777:HOH:O	2.13	0.47
3:N:1400:VAL:HG21	9:N:2015:HOH:O	2.13	0.47
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.96	0.47
3:N:443:VAL:HG12	3:N:445:ARG:HD2	1.96	0.47
2:M:1035:MET:HG2	3:N:707:THR:O	2.13	0.47
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:117:SER:OG	5:P:124:PRO:HG3	2.14	0.47
5:P:302:LYS:HA	9:P:3857:HOH:O	2.14	0.47
5:P:85:LEU:HD22	5:P:193:ARG:HD3	1.96	0.47
2:C:1060:ILE:HG23	2:C:1061:GLU:H	1.78	0.47
2:C:455:LEU:HD23	2:C:455:LEU:N	2.30	0.47
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.39	0.47
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.50	0.47
2:C:955:PRO:HD3	9:C:9862:HOH:O	2.15	0.47
2:C:554:ASP:HA	3:D:1061:PHE:CZ	2.49	0.47
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.45	0.47
3:D:441:ARG:O	3:D:443:VAL:N	2.48	0.47
3:D:925:GLU:HG2	3:D:926:LYS:N	2.29	0.47
5:F:225:GLU:HB3	9:F:9625:HOH:O	2.14	0.47
1:L:150:TYR:CD2	3:N:857:ILE:HG13	2.50	0.47
2:M:248:PRO:HA	9:M:9909:HOH:O	2.14	0.47
2:M:333:ILE:HG22	2:M:465:GLY:CA	2.45	0.47
2:M:676:ILE:HG13	2:M:871:LEU:HB2	1.97	0.47
2:M:902:ILE:HG23	9:M:2487:HOH:O	2.15	0.47
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.50	0.47
3:N:441:ARG:O	3:N:443:VAL:N	2.48	0.47
5:P:102:LEU:HD22	5:P:183:ALA:O	2.15	0.47
5:P:151:LEU:CD2	5:P:153:PRO:HD2	2.43	0.47
5:P:332:PHE:CD1	5:P:332:PHE:N	2.82	0.47
1:A:112:ARG:HB3	1:A:112:ARG:HH11	1.80	0.47
1:A:58:ILE:HG21	1:A:68:ILE:HD11	1.97	0.47
1:B:107:LYS:HD2	9:B:9570:HOH:O	2.14	0.47
1:B:94:LEU:HD11	1:B:119:ASP:HB2	1.97	0.47
1:B:2:LEU:HD12	1:B:3:ASP:HB2	1.97	0.47
2:C:1008:ARG:HH12	2:C:1011:GLY:HA3	1.80	0.47
2:C:1090:LYS:HG2	2:C:1112:PHE:HZ	1.80	0.47
2:C:409:ARG:HB3	9:C:9854:HOH:O	2.15	0.47
3:D:1393:GLN:HB2	9:D:9959:HOH:O	2.15	0.47
3:D:516:ALA:O	3:D:518:PRO:HD3	2.15	0.47
2:C:1005:MET:HB3	3:D:629:SER:HB2	1.96	0.47
5:F:226:LYS:HD2	5:F:242:TRP:CZ2	2.50	0.47
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.45	0.47
2:M:305:PRO:HB3	2:M:308:ARG:NH2	2.30	0.47
2:M:551:GLU:HA	2:M:906:PHE:CZ	2.50	0.47
2:M:56:GLU:HG2	2:M:64:LEU:HD23	1.97	0.47
2:M:675:ALA:HB3	2:M:870:ILE:HG23	1.97	0.47
2:M:688:ILE:HD12	2:M:688:ILE:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:707:ARG:HH11	2:M:707:ARG:HG2	1.80	0.47
2:M:768:THR:O	2:M:772:ARG:HB3	2.15	0.47
2:M:959:PRO:HD3	9:M:9576:HOH:O	2.15	0.47
3:N:1283:ILE:N	3:N:1315:ASP:OD1	2.48	0.47
3:N:42:ASP:HA	3:N:46:ASP:OD1	2.14	0.47
4:O:48:MET:HB2	4:O:54:LEU:CD1	2.44	0.47
5:P:141:VAL:O	5:P:145:PRO:HD2	2.14	0.47
5:P:104:ARG:HG3	5:P:229:TYR:CZ	2.49	0.47
5:P:273:ARG:O	5:P:276:ARG:HB2	2.15	0.47
1:A:85:LEU:HA	1:A:124:ASN:ND2	2.30	0.47
1:A:33:GLY:O	1:A:195:LEU:HD22	2.14	0.47
2:C:1114:GLY:N	2:C:1115:LEU:HD12	2.19	0.47
2:C:521:PRO:HB2	3:D:1055:VAL:CB	2.44	0.47
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.96	0.47
2:C:874:LEU:HD12	3:D:784:ASP:OD2	2.15	0.47
3:D:1106:VAL:O	3:D:1108:ARG:HG2	2.14	0.47
3:D:1156:LEU:CD1	3:D:1176:LYS:HD2	2.45	0.47
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.44	0.47
3:D:210:ARG:NH1	3:D:398:ALA:HB3	2.29	0.47
3:D:543:LEU:HD21	3:D:600:LEU:HD12	1.96	0.47
3:D:787:LEU:HD11	3:D:947:ILE:HG12	1.97	0.47
4:E:19:LEU:HD12	4:E:19:LEU:O	2.14	0.47
1:L:143:ARG:HD3	1:L:158:ILE:HG21	1.97	0.47
2:M:841:ASN:ND2	2:M:844:GLY:H	2.13	0.47
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.78	0.47
3:N:1091:SER:HA	9:N:9674:HOH:O	2.14	0.47
3:N:205:TYR:CD1	3:N:393:ILE:HD11	2.49	0.47
3:N:34:TYR:OH	5:P:264:MET:HG3	2.15	0.47
3:N:462:GLN:O	3:N:466:LYS:HG3	2.14	0.47
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.97	0.47
5:P:372:ARG:HB2	9:P:4888:HOH:O	2.15	0.47
1:A:2:LEU:HG	9:A:9752:HOH:O	2.14	0.46
1:A:3:ASP:O	1:A:7:LYS:HB2	2.15	0.46
2:C:1052:MET:HG3	3:D:623:VAL:HG22	1.96	0.46
2:C:148:PHE:HZ	2:C:281:LEU:HD22	1.79	0.46
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.44	0.46
2:C:820:ARG:HG3	9:C:2214:HOH:O	2.14	0.46
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.47	0.46
3:D:1331:ASP:N	9:D:9620:HOH:O	2.47	0.46
3:D:1475:GLY:N	9:D:9610:HOH:O	2.47	0.46
3:D:1491:THR:HG22	9:E:9526:HOH:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:131:LYS:HA	3:D:456:MET:HG3	1.97	0.46
3:D:701:LEU:O	3:D:747:VAL:HA	2.15	0.46
3:D:986:ARG:HB2	9:D:9937:HOH:O	2.13	0.46
4:E:92:ILE:HD11	9:E:9551:HOH:O	2.15	0.46
1:K:143:ARG:NH2	1:K:158:ILE:HG23	2.30	0.46
1:K:91:ASN:H	1:K:94:LEU:CD1	2.28	0.46
2:M:1018:GLN:CB	2:M:1060:ILE:HD11	2.45	0.46
2:M:101:ILE:HG22	2:M:102:HIS:N	2.29	0.46
2:M:794:PRO:HB2	2:M:1027:PHE:CZ	2.50	0.46
2:M:191:PHE:HE2	2:M:195:LEU:HB3	1.80	0.46
2:M:86:LYS:HE2	9:M:9638:HOH:O	2.15	0.46
2:M:95:TYR:HE1	9:M:2165:HOH:O	1.98	0.46
3:N:1109:GLU:HA	9:N:9614:HOH:O	2.15	0.46
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	1.96	0.46
3:N:185:VAL:HG13	9:N:9598:HOH:O	2.15	0.46
5:P:365:GLU:CD	5:P:397:ILE:HA	2.35	0.46
1:B:109:VAL:HG21	1:B:138:LEU:HD11	1.97	0.46
1:B:158:ILE:HA	9:B:9554:HOH:O	2.16	0.46
2:C:398:THR:OG1	2:C:633:GLN:HG3	2.16	0.46
2:C:495:THR:HG21	2:C:524:VAL:HG21	1.96	0.46
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.80	0.46
2:C:580:MET:O	2:C:902:ILE:HA	2.15	0.46
3:D:209:ARG:HD2	3:D:210:ARG:HG2	1.96	0.46
3:D:4:GLU:HB2	9:D:9686:HOH:O	2.15	0.46
4:E:26:ARG:HD2	4:E:29:GLN:OE1	2.15	0.46
5:F:84:TYR:O	5:F:88:ILE:HG13	2.15	0.46
1:K:94:LEU:HD11	1:K:119:ASP:OD1	2.14	0.46
1:K:58:ILE:HG21	1:K:68:ILE:CD1	2.45	0.46
2:M:1061:GLU:HB3	9:M:9973:HOH:O	2.14	0.46
2:M:160:ALA:HB3	2:M:174:LEU:HB2	1.97	0.46
2:M:176:VAL:O	2:M:178:PRO:HD3	2.14	0.46
2:M:139:GLN:HE22	2:M:418:LEU:HD13	1.80	0.46
2:M:492:ASP:HB3	2:M:518:LYS:CD	2.45	0.46
2:M:571:LEU:HD23	2:M:670:GLN:HG3	1.97	0.46
2:M:18:LEU:HD13	2:M:590:ASP:CG	2.35	0.46
2:M:695:LEU:HD21	2:M:833:LEU:O	2.15	0.46
3:N:1119:SER:HA	3:N:1186:VAL:O	2.14	0.46
3:N:1314:LYS:HZ1	3:N:1317:ASP:HB2	1.80	0.46
3:N:1353:GLN:HE21	3:N:1353:GLN:HB3	1.58	0.46
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.97	0.46
3:N:646:LYS:HA	3:N:720:LEU:CD2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:656:PHE:HB3	3:N:694:VAL:CG1	2.44	0.46
4:O:26:ARG:NH1	4:O:29:GLN:NE2	2.63	0.46
1:A:205:VAL:CG2	1:A:206:THR:N	2.78	0.46
1:A:81:ASN:HA	1:A:84:GLU:OE1	2.16	0.46
1:A:9:PRO:HB3	1:A:25:LEU:CD2	2.46	0.46
1:B:99:LEU:HG	1:B:114:PHE:HB3	1.98	0.46
1:B:146:ARG:HG3	1:B:146:ARG:O	2.15	0.46
1:B:150:TYR:CE2	3:D:857:ILE:HG13	2.51	0.46
1:B:219:ARG:O	1:B:223:THR:HG23	2.15	0.46
2:C:405:ARG:HB3	9:C:9823:HOH:O	2.14	0.46
2:C:474:VAL:HG13	2:C:530:GLU:C	2.36	0.46
2:C:679:PHE:C	3:D:943:THR:HG22	2.35	0.46
3:D:907:GLU:HG2	9:D:2314:HOH:O	2.15	0.46
1:K:210:ALA:HA	1:K:213:GLN:NE2	2.30	0.46
2:M:143:SER:CB	2:M:332:ARG:HB2	2.46	0.46
2:M:444:PRO:HG3	7:M:8002:RBT:H302	1.96	0.46
2:M:510:ALA:HB1	9:M:9985:HOH:O	2.16	0.46
2:M:578:VAL:CG2	2:M:579:VAL:HG12	2.40	0.46
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.96	0.46
2:M:838:LYS:HG3	2:M:997:LEU:HB2	1.98	0.46
3:N:1390:LEU:HB3	9:N:2303:HOH:O	2.14	0.46
2:M:1007:ALA:CB	3:N:648:MET:HG3	2.42	0.46
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.80	0.46
1:B:105:GLY:O	1:B:132:LEU:HD23	2.14	0.46
1:B:33:GLY:O	1:B:195:LEU:HD22	2.16	0.46
9:A:9751:HOH:O	1:B:219:ARG:HG3	2.15	0.46
2:C:557:ARG:NH2	2:C:879:ARG:HD3	2.30	0.46
2:C:589:ARG:HD3	2:C:596:TYR:CE2	2.50	0.46
3:D:1107:VAL:O	3:D:1218:GLY:N	2.46	0.46
3:D:1173:LEU:HD23	3:D:1174:LEU:HD23	1.98	0.46
3:D:1250:ALA:HB3	9:D:9761:HOH:O	2.15	0.46
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.45	0.46
3:D:996:TRP:O	3:D:999:THR:HG22	2.14	0.46
4:E:72:ARG:HH11	4:E:72:ARG:HG2	1.81	0.46
3:D:553:ARG:HD3	5:F:214:GLN:HB3	1.96	0.46
5:F:303:ARG:HA	9:F:9749:HOH:O	2.15	0.46
5:F:420:ASP:HB2	9:F:9781:HOH:O	2.15	0.46
1:K:28:LEU:HA	9:L:5369:HOH:O	2.16	0.46
2:M:127:PHE:O	2:M:133:ASP:HA	2.15	0.46
2:M:212:GLY:C	2:M:215:GLY:H	2.19	0.46
2:M:510:ALA:HA	9:M:9562:HOH:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:626:ARG:HH12	2:M:637:LEU:HD12	1.76	0.46
2:M:741:GLY:HA3	9:M:9662:HOH:O	2.14	0.46
2:M:798:GLY:HA3	2:M:828:ALA:O	2.15	0.46
2:M:905:ILE:HG22	2:M:906:PHE:CD1	2.50	0.46
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.96	0.46
3:N:112:ILE:O	3:N:116:LEU:HB2	2.16	0.46
3:N:1173:LEU:HD23	3:N:1174:LEU:HD23	1.98	0.46
3:N:1426:LYS:HA	3:N:1429:LEU:HB2	1.98	0.46
3:N:424:GLY:N	9:N:2715:HOH:O	2.47	0.46
3:N:785:ILE:HD12	3:N:785:ILE:H	1.79	0.46
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.45	0.46
4:O:51:LEU:HD12	4:O:52:GLU:N	2.30	0.46
4:O:48:MET:HB2	4:O:54:LEU:HD12	1.97	0.46
1:B:41:ARG:NH1	1:B:177:VAL:HG23	2.31	0.46
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.29	0.46
2:C:244:PRO:CD	2:C:245:GLY:H	2.22	0.46
2:C:399:ASN:HD21	2:C:402:SER:HB2	1.81	0.46
2:C:462:ASP:CG	2:C:463:GLU:H	2.19	0.46
2:C:630:ARG:HD3	9:C:9834:HOH:O	2.15	0.46
3:D:1254:GLN:OE1	3:D:1254:GLN:HA	2.16	0.46
3:D:1282:ARG:CZ	3:D:1282:ARG:HB3	2.45	0.46
3:D:1393:GLN:HB2	3:D:1398:TRP:HZ2	1.80	0.46
3:D:1400:VAL:HG11	9:D:2388:HOH:O	2.14	0.46
3:D:18:ILE:HG21	3:D:516:ALA:O	2.16	0.46
3:D:441:ARG:HB3	3:D:443:VAL:HG23	1.98	0.46
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.42	0.46
3:D:702:LEU:HB3	3:D:745:MET:HE3	1.96	0.46
3:D:810:GLU:HA	3:D:813:LEU:HD23	1.98	0.46
3:D:829:VAL:HG11	9:D:9902:HOH:O	2.16	0.46
1:B:150:TYR:HD2	3:D:857:ILE:HG13	1.80	0.46
3:D:972:LEU:HD23	3:D:973:GLN:N	2.31	0.46
5:F:282:LEU:HD12	5:F:284:ARG:O	2.16	0.46
5:F:361:LEU:CD2	5:F:362:SER:H	2.21	0.46
1:L:117:VAL:HA	9:L:3956:HOH:O	2.16	0.46
1:L:197:LEU:HD11	1:L:199:ILE:HD11	1.97	0.46
1:L:45:LEU:HB2	9:L:3651:HOH:O	2.14	0.46
2:M:1040:LEU:HG	2:M:1045:ALA:HB3	1.97	0.46
2:M:139:GLN:HB3	2:M:334:ARG:HB2	1.98	0.46
2:M:139:GLN:NE2	2:M:334:ARG:HH11	2.10	0.46
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.46	0.46
2:M:134:ARG:NH2	2:M:393:GLN:HA	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:496:ILE:HD12	2:M:496:ILE:H	1.80	0.46
2:M:535:SER:O	2:M:538:GLN:HG2	2.15	0.46
2:M:537:LYS:HE3	2:M:905:ILE:HD11	1.97	0.46
2:M:78:PHE:HB2	2:M:88:LEU:HD21	1.97	0.46
2:M:912:PRO:HB2	9:M:2025:HOH:O	2.14	0.46
3:N:1111:ASP:HB2	3:N:1203:LYS:HG3	1.98	0.46
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.35	0.46
3:N:459:GLU:HG3	3:N:460:ALA:N	2.30	0.46
3:N:953:ASP:O	3:N:955:VAL:HG23	2.15	0.46
1:A:189:ARG:HD2	9:A:9741:HOH:O	2.15	0.46
1:A:48:ILE:HG22	1:A:173:PRO:CD	2.45	0.46
1:B:185:ARG:HG2	9:B:9526:HOH:O	2.16	0.46
2:C:1049:LEU:HG	2:C:1053:LEU:HD11	1.97	0.46
2:C:129:ILE:HG12	2:C:386:PHE:O	2.15	0.46
2:C:503:LEU:HD13	2:C:507:ARG:O	2.15	0.46
2:C:645:VAL:HA	9:C:9913:HOH:O	2.16	0.46
2:C:565:GLN:OE1	2:C:842:ARG:HG2	2.16	0.46
3:D:38:LYS:HE3	9:D:9903:HOH:O	2.16	0.46
3:D:656:PHE:HB3	3:D:694:VAL:CG1	2.44	0.46
3:D:736:PHE:O	3:D:738:ALA:N	2.48	0.46
3:D:781:PRO:HB3	3:D:785:ILE:HB	1.97	0.46
3:D:850:LEU:HD22	3:D:884:ARG:NH2	2.29	0.46
5:F:278:LEU:HB2	5:F:286:PRO:HG2	1.98	0.46
2:C:1021:LEU:HD13	5:F:332:PHE:HA	1.98	0.46
1:L:146:ARG:HB3	9:L:4052:HOH:O	2.14	0.46
1:L:24:VAL:HG22	1:L:196:THR:HB	1.98	0.46
2:M:260:LEU:HA	2:M:291:ALA:CB	2.46	0.46
2:M:595:LEU:HG	9:M:2074:HOH:O	2.14	0.46
2:M:869:VAL:HB	9:M:2014:HOH:O	2.15	0.46
3:N:1383:ASP:HB3	3:N:1416:ALA:H	1.79	0.46
3:N:175:VAL:HG11	3:N:218:LYS:H	1.80	0.46
3:N:702:LEU:HD23	3:N:716:PHE:CD1	2.51	0.46
3:N:789:LEU:O	3:N:792:ILE:HG23	2.16	0.46
3:N:950:GLY:O	3:N:953:ASP:N	2.35	0.46
4:O:50:THR:HB	9:O:4388:HOH:O	2.16	0.46
4:O:51:LEU:HA	9:O:6073:HOH:O	2.15	0.46
1:A:220:GLU:HG2	9:A:9635:HOH:O	2.14	0.46
1:B:152:PRO:HB2	9:B:9614:HOH:O	2.15	0.46
2:C:113:VAL:HG11	2:C:373:VAL:CB	2.44	0.46
2:C:191:PHE:HE2	2:C:196:LEU:HD21	1.80	0.46
2:C:170:PRO:HG2	2:C:258:TYR:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:43:GLY:HA2	2:C:341:THR:OG1	2.16	0.46
2:C:473:ARG:HA	2:C:531:PHE:CD1	2.50	0.46
2:C:571:LEU:HD21	2:C:669:GLY:H	1.80	0.46
2:C:943:VAL:HG11	2:C:973:VAL:CG2	2.46	0.46
3:D:119:SER:HB2	3:D:123:LEU:CB	2.37	0.46
3:D:1213:ARG:HE	3:D:1213:ARG:N	2.06	0.46
3:D:1393:GLN:CB	3:D:1398:TRP:HE1	2.29	0.46
3:D:19:ARG:HD2	9:D:9854:HOH:O	2.15	0.46
3:D:56:TYR:O	3:D:80:VAL:HG21	2.15	0.46
3:D:723:GLY:HA3	9:D:9564:HOH:O	2.15	0.46
5:F:256:ARG:CD	5:F:260:ILE:HD12	2.46	0.46
1:K:101:LEU:HD23	1:K:113:ASP:O	2.15	0.46
1:K:49:PRO:HB3	1:K:148:VAL:HG22	1.97	0.46
1:K:45:LEU:HD23	9:K:3684:HOH:O	2.15	0.46
1:L:100:LEU:O	1:L:115:LEU:HG	2.16	0.46
1:L:128:HIS:CE1	1:L:131:THR:HG23	2.50	0.46
1:L:58:ILE:HD13	1:L:140:MET:HB2	1.97	0.46
2:M:1091:GLU:HA	3:N:520:LEU:HD13	1.97	0.46
2:M:333:ILE:HD13	2:M:467:ILE:HD11	1.98	0.46
2:M:966:LEU:HD21	2:M:986:PRO:HG3	1.97	0.46
3:N:1112:CYS:HB2	3:N:1195:GLN:CD	2.36	0.46
3:N:1115:THR:HG22	3:N:1117:TYR:CD2	2.51	0.46
3:N:1153:VAL:HG21	9:N:9815:HOH:O	2.15	0.46
9:N:2022:HOH:O	5:P:94:LEU:HD22	2.15	0.46
1:A:117:VAL:HG12	9:A:9578:HOH:O	2.16	0.46
1:A:54:THR:CG2	1:A:158:ILE:HG13	2.42	0.46
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.98	0.46
2:C:285:LEU:HD23	2:C:285:LEU:O	2.16	0.46
2:C:29:ALA:HB1	2:C:340:MET:CE	2.46	0.46
2:C:42:VAL:HG12	2:C:43:GLY:N	2.27	0.46
2:C:328:LEU:HD22	2:C:433:THR:O	2.15	0.46
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.50	0.46
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.51	0.46
3:D:1348:LEU:HD13	3:D:1348:LEU:HA	1.81	0.46
3:D:1486:VAL:HG11	4:E:26:ARG:HD3	1.98	0.46
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.97	0.46
5:F:253:ASP:HA	5:F:259:ARG:NH1	2.30	0.46
5:F:335:ASP:CG	5:F:338:LEU:HD12	2.36	0.46
1:K:211:LEU:O	1:K:215:VAL:HG13	2.15	0.46
1:K:217:ILE:HA	1:K:220:GLU:CD	2.36	0.46
1:L:123:MET:O	1:L:125:PRO:HD3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.30	0.46
2:M:157:ARG:HB3	9:M:2062:HOH:O	2.14	0.46
2:M:289:THR:HG22	2:M:290:LEU:H	1.80	0.46
2:M:503:LEU:HD13	2:M:507:ARG:O	2.16	0.46
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.51	0.46
3:N:9:ARG:HG3	3:N:1455:LYS:C	2.36	0.46
3:N:168:THR:CB	3:N:393:ILE:HD12	2.46	0.46
3:N:8:VAL:HG21	9:N:2132:HOH:O	2.15	0.46
3:N:890:VAL:HG13	3:N:926:LYS:HG2	1.98	0.46
4:O:48:MET:HB3	4:O:54:LEU:HB2	1.98	0.46
5:P:223:ALA:HB2	5:P:242:TRP:HB2	1.97	0.46
1:B:19:GLU:O	1:B:200:TRP:HA	2.16	0.46
2:C:110:GLU:H	2:C:368:THR:CG2	2.27	0.46
2:C:218:VAL:HG22	2:C:221:LEU:HD23	1.98	0.46
2:C:340:MET:HB2	9:C:9586:HOH:O	2.16	0.46
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.97	0.46
2:C:747:ALA:O	2:C:799:ILE:HA	2.16	0.46
3:D:1243:THR:HG22	3:D:1244:GLY:H	1.81	0.46
3:D:1290:LEU:CD2	3:D:1291:SER:H	2.28	0.46
3:D:175:VAL:HG12	3:D:176:ASP:OD1	2.15	0.46
3:D:460:ALA:O	3:D:464:LEU:HG	2.15	0.46
3:D:823:LEU:HG	9:D:9797:HOH:O	2.15	0.46
3:D:770:LEU:HG	3:D:919:PHE:CD1	2.51	0.46
4:E:86:GLN:HB2	9:E:9579:HOH:O	2.16	0.46
1:L:133:GLU:HG3	1:L:134:GLU:HG2	1.98	0.46
1:L:218:LEU:O	1:L:222:LEU:HG	2.16	0.46
1:L:65:PHE:CD1	3:N:813:LEU:HD13	2.50	0.46
2:M:355:VAL:HB	9:M:9797:HOH:O	2.14	0.46
2:M:798:GLY:HA2	9:M:9603:HOH:O	2.16	0.46
2:M:876:VAL:O	2:M:879:ARG:O	2.34	0.46
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.16	0.46
3:N:1278:ASP:HB2	3:N:1318:TYR:OH	2.16	0.46
3:N:1297:GLU:HG3	9:N:2208:HOH:O	2.15	0.46
3:N:861:GLN:N	3:N:861:GLN:CD	2.68	0.46
3:N:9:ARG:HG3	3:N:1455:LYS:O	2.16	0.46
5:P:217:ASN:O	5:P:221:ILE:HG13	2.16	0.46
5:P:252:ALA:HA	9:P:3803:HOH:O	2.16	0.46
5:P:396:ARG:HH11	5:P:399:GLN:HE22	1.62	0.46
1:A:176:ARG:HD3	1:A:200:TRP:CE3	2.50	0.46
1:B:228:PRO:O	1:B:229:GLN:HG3	2.16	0.46
1:A:42:ARG:NH2	1:B:34:VAL:HB	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.36	0.46
2:C:547:ILE:HB	2:C:550:LEU:HD13	1.98	0.46
2:C:630:ARG:NH2	2:C:706:GLU:C	2.69	0.46
2:C:710:ILE:HD12	2:C:790:LEU:HD13	1.98	0.46
2:C:716:LYS:HA	9:C:2391:HOH:O	2.16	0.46
2:C:79:PRO:O	2:C:83:CYS:SG	2.72	0.46
3:D:103:TRP:HA	9:D:9830:HOH:O	2.16	0.46
3:D:1150:ALA:HA	9:D:2165:HOH:O	2.14	0.46
3:D:213:VAL:HG22	3:D:214:GLU:H	1.80	0.46
3:D:813:LEU:O	3:D:839:LEU:HD11	2.15	0.46
5:F:162:LYS:HA	9:F:9569:HOH:O	2.15	0.46
1:K:227:ASN:ND2	1:K:227:ASN:H	2.13	0.46
2:M:84:ARG:NH2	2:M:128:ILE:HD11	2.31	0.46
2:M:224:GLU:HB3	2:M:227:PHE:CD1	2.51	0.46
3:N:1078:ARG:NH1	3:N:1078:ARG:HG3	2.30	0.46
3:N:1212:ALA:HA	9:N:2149:HOH:O	2.16	0.46
3:N:1301:LYS:HE3	3:N:1301:LYS:HA	1.97	0.46
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.46	0.46
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.31	0.46
3:N:653:PHE:CD1	3:N:653:PHE:N	2.85	0.46
3:N:417:PRO:HA	5:P:168:LYS:NZ	2.30	0.46
5:P:323:ASP:CB	5:P:325:LYS:HE2	2.45	0.46
5:P:419:ARG:O	5:P:421:PHE:N	2.48	0.46
1:A:40:LEU:O	1:A:44:LEU:HD12	2.16	0.45
1:B:75:VAL:O	1:B:79:ILE:HG23	2.15	0.45
2:C:172:ILE:N	2:C:172:ILE:HD12	2.29	0.45
2:C:437:ARG:HG2	2:C:467:ILE:O	2.16	0.45
2:C:441:VAL:HG12	2:C:559:LEU:HA	1.96	0.45
2:C:626:ARG:H	2:C:639:GLN:HE21	1.62	0.45
3:D:1012:GLU:HG3	9:D:2626:HOH:O	2.14	0.45
3:D:1153:VAL:HG12	3:D:1155:VAL:CG2	2.44	0.45
3:D:1318:TYR:HD1	3:D:1319:VAL:N	2.14	0.45
3:D:1320:GLU:HG2	3:D:1339:LYS:NZ	2.31	0.45
3:D:1330:ILE:HB	3:D:1347:TYR:CE1	2.51	0.45
3:D:369:ALA:HB2	9:D:9672:HOH:O	2.16	0.45
3:D:566:ILE:CG1	5:F:192:LEU:HD11	2.46	0.45
5:F:105:LYS:NZ	5:F:179:GLU:HB3	2.31	0.45
1:K:2:LEU:HD13	9:K:6158:HOH:O	2.15	0.45
1:K:50:GLY:O	1:K:146:ARG:HA	2.15	0.45
2:M:131:GLY:HA2	9:M:9630:HOH:O	2.16	0.45
2:M:162:ILE:HD12	2:M:172:ILE:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:24:GLU:HB2	9:M:2039:HOH:O	2.16	0.45
2:M:881:ASN:H	2:M:881:ASN:HD22	1.64	0.45
2:M:914:ILE:HD11	2:M:918:LEU:HD13	1.98	0.45
3:N:119:SER:HB2	3:N:123:LEU:CB	2.37	0.45
3:N:1312:LEU:N	9:N:2252:HOH:O	2.48	0.45
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.46	0.45
3:N:787:LEU:HD21	3:N:947:ILE:HD11	1.98	0.45
5:P:181:GLU:O	5:P:184:ARG:HB3	2.16	0.45
5:P:306:GLU:O	5:P:310:ILE:HG13	2.16	0.45
1:A:189:ARG:HB3	9:A:9569:HOH:O	2.16	0.45
1:A:24:VAL:HG22	1:A:196:THR:CG2	2.45	0.45
1:B:49:PRO:HB3	1:B:148:VAL:HG13	1.97	0.45
2:C:195:LEU:HG	2:C:238:LEU:HD12	1.98	0.45
2:C:512:ARG:HB2	9:C:9776:HOH:O	2.16	0.45
2:C:721:ARG:HG2	2:C:820:ARG:HH12	1.81	0.45
2:C:958:THR:HG23	2:C:961:GLU:CG	2.46	0.45
2:C:862:PRO:HA	2:C:975:TYR:CE1	2.51	0.45
3:D:1293:PHE:CD2	3:D:1302:GLU:HA	2.51	0.45
3:D:1371:VAL:HG12	3:D:1375:MET:CE	2.46	0.45
3:D:28:LYS:CB	3:D:41:ARG:HD2	2.41	0.45
3:D:653:PHE:CD1	3:D:653:PHE:N	2.84	0.45
3:D:899:LEU:HB3	3:D:917:GLN:HG2	1.99	0.45
1:K:101:LEU:HD22	1:K:102:LYS:H	1.79	0.45
2:M:189:ARG:HG3	2:M:190:LYS:N	2.31	0.45
2:M:278:GLU:HG3	2:M:283:ILE:HA	1.97	0.45
2:M:287:GLY:HA3	9:M:2054:HOH:O	2.16	0.45
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.98	0.45
2:M:419:THR:HG22	9:M:9836:HOH:O	2.16	0.45
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.46	0.45
2:M:610:ARG:HH11	2:M:612:VAL:HG23	1.80	0.45
2:M:853:LEU:HB2	2:M:858:MET:HE3	1.98	0.45
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.16	0.45
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.44	0.45
3:N:134:VAL:O	3:N:134:VAL:HG23	2.17	0.45
3:N:141:ILE:HD13	3:N:450:TYR:CB	2.43	0.45
3:N:1103:HIS:HD2	3:N:1462:LEU:N	2.14	0.45
3:N:1498:ALA:HA	3:N:1501:GLU:OE2	2.16	0.45
3:N:486:ARG:HA	3:N:489:ARG:HG2	1.97	0.45
3:N:486:ARG:NH2	9:N:2166:HOH:O	2.48	0.45
3:N:658:LEU:HD22	3:N:670:VAL:HG13	1.98	0.45
2:M:1083:GLU:OE2	3:N:87:ARG:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:197:SER:O	5:P:200:LYS:HB3	2.16	0.45
5:P:210:LEU:HA	5:P:213:ILE:HD12	1.98	0.45
5:P:410:TYR:HB3	9:P:4652:HOH:O	2.16	0.45
1:A:161:ARG:HB2	1:A:161:ARG:CZ	2.46	0.45
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.51	0.45
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.79	0.45
2:C:229:MET:HE3	9:C:2102:HOH:O	2.15	0.45
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.98	0.45
2:C:48:PHE:HB3	9:C:2027:HOH:O	2.16	0.45
2:C:603:VAL:H	2:C:647:GLN:H	1.64	0.45
2:C:636:ALA:C	2:C:637:LEU:HD23	2.37	0.45
3:D:1037:GLN:OE1	3:D:1042:ARG:HB3	2.15	0.45
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.46	0.45
3:D:572:ARG:NH2	5:F:83:GLN:HG3	2.31	0.45
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.36	0.45
3:D:631:ILE:HG21	3:D:745:MET:SD	2.56	0.45
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.82	0.45
4:E:86:GLN:O	4:E:90:GLU:HG3	2.16	0.45
5:F:140:ARG:HA	9:F:9735:HOH:O	2.15	0.45
5:F:287:THR:O	5:F:289:GLU:N	2.49	0.45
5:F:332:PHE:HB2	9:F:9704:HOH:O	2.14	0.45
1:L:50:GLY:O	1:L:146:ARG:HA	2.16	0.45
1:L:209:GLU:HB3	9:L:4456:HOH:O	2.16	0.45
2:M:139:GLN:HG3	2:M:140:ILE:N	2.27	0.45
2:M:422:ARG:NH1	9:M:9984:HOH:O	2.49	0.45
2:M:437:ARG:NH1	2:M:488:ALA:HA	2.31	0.45
2:M:460:ARG:HD2	2:M:485:TYR:CD2	2.51	0.45
2:M:571:LEU:HA	2:M:701:THR:O	2.16	0.45
2:M:8:ARG:HG3	2:M:10:ARG:HH21	1.81	0.45
2:M:921:ALA:HB2	9:M:9641:HOH:O	2.16	0.45
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.97	0.45
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.47	0.45
3:N:1124:GLN:HE21	3:N:1133:ARG:CD	2.24	0.45
3:N:1471:LEU:HD12	3:N:1472:ILE:H	1.80	0.45
3:N:1498:ALA:HB3	9:N:2275:HOH:O	2.17	0.45
3:N:116:LEU:CD2	3:N:468:LEU:HD11	2.47	0.45
3:N:573:MET:SD	5:P:210:LEU:HD22	2.56	0.45
3:N:76:CYS:HB2	9:N:9715:HOH:O	2.16	0.45
3:N:799:LYS:N	3:N:826:PRO:HG2	2.30	0.45
3:N:990:ASP:HB2	9:N:9775:HOH:O	2.15	0.45
5:P:214:GLN:O	5:P:217:ASN:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:133:GLU:OE1	2:C:605:LYS:HB2	2.16	0.45
1:B:101:LEU:HG	1:B:114:PHE:CA	2.45	0.45
2:C:14:PRO:HB3	2:C:586:ARG:HH21	1.80	0.45
3:D:1242:HIS:HE1	3:D:1266:ARG:HB3	1.81	0.45
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.16	0.45
3:D:1412:LYS:HE2	3:D:1414:PRO:HG3	1.97	0.45
3:D:1431:THR:OG1	3:D:1432:LYS:N	2.49	0.45
3:D:178:LEU:HG	3:D:200:ASP:H	1.80	0.45
3:D:553:ARG:CZ	9:F:9685:HOH:O	2.64	0.45
3:D:722:GLU:HB3	9:D:9664:HOH:O	2.14	0.45
5:F:353:GLU:OE2	5:F:356:LYS:HD2	2.15	0.45
1:K:61:VAL:HG13	1:K:66:SER:OG	2.16	0.45
1:K:97:VAL:HG12	1:K:99:LEU:HD12	1.98	0.45
2:M:148:PHE:CZ	2:M:281:LEU:HD13	2.52	0.45
2:M:770:GLU:HB3	9:M:2326:HOH:O	2.16	0.45
2:M:897:LEU:HD13	9:M:9641:HOH:O	2.17	0.45
3:N:1339:LYS:O	3:N:1339:LYS:HG3	2.16	0.45
3:N:1418:LYS:HB2	9:N:2727:HOH:O	2.15	0.45
3:N:598:ARG:HH11	3:N:598:ARG:HG2	1.82	0.45
3:N:950:GLY:C	3:N:952:ASP:N	2.65	0.45
5:P:408:LEU:O	5:P:412:GLU:HG2	2.16	0.45
1:A:106:PRO:HG3	1:A:133:GLU:O	2.17	0.45
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.51	0.45
1:B:92:PRO:HA	1:B:146:ARG:CZ	2.46	0.45
1:B:50:GLY:O	1:B:146:ARG:HA	2.15	0.45
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.99	0.45
2:C:163:ILE:HG13	2:C:171:TRP:CH2	2.50	0.45
2:C:137:VAL:O	2:C:391:LEU:HD11	2.16	0.45
2:C:901:TYR:N	2:C:901:TYR:CD1	2.83	0.45
2:C:911:GLU:O	2:C:915:LYS:HG2	2.16	0.45
2:C:971:LYS:HD2	2:C:986:PRO:HB2	1.98	0.45
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.47	0.45
3:D:1382:THR:HA	9:D:2920:HOH:O	2.15	0.45
3:D:1393:GLN:N	9:D:9959:HOH:O	2.49	0.45
3:D:1501:GLU:HB2	9:D:2754:HOH:O	2.16	0.45
3:D:28:LYS:O	3:D:43:GLY:HA2	2.16	0.45
3:D:465:LEU:HD21	3:D:509:PRO:HB2	1.99	0.45
3:D:563:PRO:CG	3:D:566:ILE:HD12	2.46	0.45
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.98	0.45
3:D:95:LEU:HA	3:D:551:ASN:OD1	2.16	0.45
3:D:974:ILE:HG22	9:D:9882:HOH:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:88:ILE:CD1	5:F:193:ARG:HB2	2.37	0.45
5:F:231:ARG:HB3	5:F:233:PHE:CZ	2.52	0.45
5:F:396:ARG:HA	9:F:9581:HOH:O	2.16	0.45
1:K:107:LYS:HB2	9:K:4981:HOH:O	2.17	0.45
1:K:127:LEU:HD12	1:K:127:LEU:C	2.37	0.45
1:K:19:GLU:O	1:K:200:TRP:HA	2.16	0.45
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.99	0.45
2:M:273:GLY:HA2	2:M:276:LYS:HD3	1.98	0.45
2:M:39:ARG:HE	2:M:39:ARG:HA	1.82	0.45
2:M:400:PRO:HG3	9:M:9799:HOH:O	2.15	0.45
2:M:68:PHE:CZ	2:M:71:TYR:HB3	2.52	0.45
2:M:905:ILE:HG22	2:M:906:PHE:HD1	1.81	0.45
3:N:1258:ARG:HH21	3:N:1351:GLU:CG	2.29	0.45
3:N:1314:LYS:HZ3	3:N:1317:ASP:H	1.63	0.45
3:N:186:VAL:HG11	3:N:213:VAL:HB	1.99	0.45
3:N:23:TYR:O	3:N:49:ILE:HG23	2.16	0.45
3:N:27:GLU:N	9:N:9589:HOH:O	2.47	0.45
3:N:364:GLY:N	9:N:2883:HOH:O	2.49	0.45
3:N:487:ALA:N	9:N:2856:HOH:O	2.49	0.45
4:O:45:ARG:HD2	4:O:47:LYS:HE3	1.99	0.45
4:O:83:ASP:HB3	9:O:4879:HOH:O	2.17	0.45
5:P:332:PHE:N	5:P:332:PHE:HD1	2.15	0.45
5:P:366:ALA:HB3	5:P:367:MET:CE	2.46	0.45
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.97	0.45
1:A:85:LEU:HD12	1:A:86:VAL:N	2.32	0.45
1:B:125:PRO:HB3	9:B:9731:HOH:O	2.17	0.45
1:B:65:PHE:HD1	3:D:813:LEU:HD22	1.82	0.45
2:C:127:PHE:O	2:C:133:ASP:HA	2.17	0.45
2:C:601:GLY:HA3	2:C:615:TYR:HA	1.97	0.45
2:C:732:ALA:HA	2:C:735:ARG:NH2	2.31	0.45
2:C:773:LEU:HG	2:C:777:ILE:HD11	1.98	0.45
3:D:1332:PRO:HB3	3:D:1348:LEU:HD21	1.99	0.45
3:D:66:GLN:HB3	9:D:9848:HOH:O	2.16	0.45
5:F:243:ILE:HB	9:F:9669:HOH:O	2.16	0.45
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.46	0.45
5:F:412:GLU:OE1	5:F:418:LEU:HD13	2.17	0.45
1:L:11:PHE:HD1	1:L:25:LEU:HD13	1.81	0.45
1:L:9:PRO:HB3	1:L:25:LEU:HG	1.97	0.45
2:M:51:THR:CB	2:M:348:LEU:HD23	2.47	0.45
2:M:64:LEU:HB2	2:M:359:MET:SD	2.56	0.45
2:M:462:ASP:OD1	2:M:466:PHE:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:52:PHE:O	2:M:54:ILE:N	2.50	0.45
2:M:52:PHE:HB3	2:M:53:PRO:HD3	1.98	0.45
2:M:575:GLN:OE1	2:M:670:GLN:HB3	2.17	0.45
2:M:805:ARG:HB3	9:M:2157:HOH:O	2.16	0.45
3:N:111:LYS:HD3	3:N:1452:ILE:HD13	1.97	0.45
3:N:1156:LEU:CD1	3:N:1176:LYS:HD2	2.46	0.45
3:N:1162:GLU:HG2	3:N:1163:GLY:N	2.31	0.45
3:N:1280:VAL:HG12	3:N:1316:GLY:O	2.16	0.45
3:N:567:ILE:C	3:N:571:LYS:HZ2	2.20	0.45
3:N:129:PHE:CZ	3:N:587:ARG:HD3	2.51	0.45
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.46	0.45
3:N:701:LEU:O	3:N:747:VAL:HA	2.16	0.45
3:N:764:LEU:HD23	3:N:767:HIS:NE2	2.32	0.45
3:N:971:LEU:HD11	3:N:992:ILE:HG23	1.98	0.45
5:P:413:SER:HA	5:P:416:ARG:HD3	1.97	0.45
1:A:112:ARG:HB2	9:A:9722:HOH:O	2.17	0.45
1:A:18:ARG:NH1	9:A:9718:HOH:O	2.49	0.45
1:B:71:VAL:HG22	1:B:132:LEU:HD12	1.98	0.45
2:C:203:ASP:OD1	2:C:205:GLU:HG3	2.16	0.45
2:C:281:LEU:HB2	2:C:309:TYR:CD1	2.52	0.45
2:C:367:LEU:O	2:C:371:LYS:HB3	2.17	0.45
2:C:410:ILE:HD12	2:C:410:ILE:N	2.31	0.45
2:C:580:MET:HB3	2:C:584:GLU:OE1	2.16	0.45
2:C:640:ARG:HB3	9:C:9670:HOH:O	2.16	0.45
2:C:3:ILE:HD13	2:C:900:ARG:O	2.16	0.45
3:D:1043:GLY:O	3:D:1056:PRO:HB3	2.15	0.45
3:D:1462:LEU:HD13	3:D:1472:ILE:CG2	2.46	0.45
3:D:209:ARG:HG3	9:D:2664:HOH:O	2.16	0.45
3:D:190:GLU:HG3	3:D:210:ARG:CD	2.46	0.45
3:D:57:GLU:HG3	3:D:64:LYS:HE3	1.97	0.45
1:L:149:GLY:O	1:L:171:PHE:HB2	2.15	0.45
1:L:219:ARG:O	1:L:223:THR:HG23	2.16	0.45
1:L:95:GLN:H	1:L:95:GLN:NE2	2.13	0.45
2:M:146:VAL:HG13	2:M:161:SER:O	2.16	0.45
2:M:287:GLY:HA2	9:M:9726:HOH:O	2.17	0.45
2:M:368:THR:HB	2:M:369:PRO:HD3	1.99	0.45
3:N:1176:LYS:HD3	3:N:1176:LYS:O	2.17	0.45
3:N:118:LEU:O	3:N:120:ALA:N	2.49	0.45
3:N:1468:LEU:HG	9:N:2132:HOH:O	2.17	0.45
3:N:1481:VAL:HG11	4:O:18:ARG:CA	2.40	0.45
3:N:810:GLU:HA	3:N:813:LEU:HD23	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:350:LEU:HG	5:P:354:LEU:HD11	1.98	0.45
2:C:1091:GLU:O	2:C:1094:ALA:HB3	2.16	0.45
2:C:214:TYR:HB3	9:C:2050:HOH:O	2.17	0.45
2:C:374:ASN:ND2	2:C:377:PRO:HD3	2.32	0.45
2:C:640:ARG:HG3	9:C:2078:HOH:O	2.17	0.45
2:C:695:LEU:HG	9:C:9871:HOH:O	2.15	0.45
2:C:983:ILE:HG22	2:C:983:ILE:O	2.16	0.45
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.97	0.45
3:D:118:LEU:O	3:D:120:ALA:N	2.50	0.45
3:D:180:LYS:HG3	9:D:9629:HOH:O	2.15	0.45
3:D:517:VAL:HG11	3:D:581:LEU:HD21	1.99	0.45
3:D:605:ASP:HB3	9:D:9653:HOH:O	2.16	0.45
3:D:880:ILE:O	3:D:883:ALA:HB3	2.17	0.45
4:E:9:LEU:HD22	4:E:19:LEU:HD11	1.98	0.45
4:E:26:ARG:HD2	4:E:29:GLN:CD	2.37	0.45
5:F:361:LEU:CD1	5:F:408:LEU:HD21	2.47	0.45
1:L:145:ASP:O	1:L:171:PHE:HE1	2.00	0.45
2:M:1040:LEU:HG	2:M:1045:ALA:CB	2.46	0.45
2:M:321:GLU:HB3	9:M:9616:HOH:O	2.16	0.45
2:M:890:LEU:HA	2:M:914:ILE:CD1	2.45	0.45
2:M:966:LEU:HD21	2:M:986:PRO:CG	2.47	0.45
3:N:1465:ASN:HD22	3:N:1465:ASN:HA	1.54	0.45
3:N:170:PRO:HA	9:N:2270:HOH:O	2.16	0.45
3:N:56:TYR:N	9:N:9683:HOH:O	2.50	0.45
3:N:844:ALA:HB1	3:N:867:ARG:NH1	2.32	0.45
3:N:970:LYS:HB2	3:N:970:LYS:NZ	2.32	0.45
5:P:215:GLU:HA	5:P:215:GLU:OE1	2.17	0.45
5:P:409:LYS:HE3	5:P:410:TYR:CE1	2.52	0.45
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.81	0.45
1:A:30:ARG:HD3	1:A:191:ASP:OD2	2.17	0.45
1:A:48:ILE:HD11	1:A:210:ALA:O	2.17	0.45
1:A:88:ARG:HG2	1:A:88:ARG:O	2.16	0.45
1:B:94:LEU:HD11	1:B:119:ASP:CB	2.46	0.45
2:C:1008:ARG:HH12	2:C:1011:GLY:CA	2.30	0.45
2:C:158:TYR:HD1	9:C:9658:HOH:O	2.00	0.45
2:C:352:ALA:C	2:C:355:VAL:HG12	2.38	0.45
2:C:480:THR:HG22	2:C:481:ASP:N	2.32	0.45
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.51	0.45
2:C:605:LYS:HG3	2:C:612:VAL:HB	1.98	0.45
3:D:1057:VAL:HG21	9:D:9822:HOH:O	2.16	0.45
3:D:1161:GLU:HG2	3:D:1161:GLU:H	1.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:574:LEU:O	3:D:577:ALA:HB3	2.17	0.45
3:D:581:LEU:CD1	3:D:603:LEU:HD12	2.47	0.45
3:D:724:GLN:HB2	3:D:724:GLN:HE21	1.59	0.45
3:D:863:VAL:HA	9:D:9665:HOH:O	2.17	0.45
3:D:420:VAL:HG13	5:F:164:LYS:HZ3	1.81	0.45
1:L:165:ILE:HG13	1:L:165:ILE:O	2.17	0.45
2:M:310:LEU:HD21	9:M:9821:HOH:O	2.16	0.45
2:M:59:LYS:HB3	9:M:9796:HOH:O	2.16	0.45
2:M:625:LEU:HD22	2:M:639:GLN:CB	2.47	0.45
2:M:793:PRO:HB3	9:M:2101:HOH:O	2.16	0.45
2:M:831:ARG:HH11	2:M:831:ARG:HG2	1.81	0.45
3:N:18:ILE:HG21	3:N:516:ALA:HB1	1.99	0.45
3:N:477:LEU:O	3:N:481:MET:HB2	2.15	0.45
3:N:520:LEU:CD1	3:N:521:PRO:HD2	2.36	0.45
2:M:1008:ARG:HD2	3:N:624:ASP:O	2.17	0.45
3:N:628:ARG:O	3:N:628:ARG:HD2	2.17	0.45
3:N:690:ALA:O	3:N:694:VAL:HG23	2.16	0.45
3:N:710:ARG:HD2	3:N:772:PRO:HG2	1.99	0.45
3:N:792:ILE:O	3:N:878:GLY:HA3	2.17	0.45
3:N:831:GLY:HA3	9:N:9579:HOH:O	2.16	0.45
5:P:113:ILE:HG23	5:P:127:ILE:HG22	1.97	0.45
5:P:336:GLU:HA	9:P:5536:HOH:O	2.17	0.45
1:A:176:ARG:O	1:A:200:TRP:HE3	2.00	0.45
1:A:192:LEU:HA	9:A:9561:HOH:O	2.17	0.45
1:A:77:GLU:O	1:A:80:LEU:HB3	2.17	0.45
1:A:92:PRO:HD3	9:A:9646:HOH:O	2.16	0.45
1:B:103:ALA:HB1	1:B:107:LYS:HD2	1.99	0.45
2:C:313:LEU:HD13	2:C:321:GLU:O	2.16	0.45
2:C:359:MET:HB2	9:C:9719:HOH:O	2.16	0.45
2:C:952:LEU:HB3	2:C:966:LEU:CD1	2.47	0.45
3:D:783:ARG:NH2	3:D:1029:ARG:CZ	2.80	0.45
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.32	0.45
3:D:1145:TYR:HD2	3:D:1168:MET:SD	2.40	0.45
3:D:1352:ILE:HG22	3:D:1368:ILE:HD13	1.98	0.45
3:D:1402:ALA:HB2	3:D:1415:VAL:HG23	1.98	0.45
3:D:1441:GLN:HB2	9:D:2106:HOH:O	2.16	0.45
3:D:154:THR:HG23	3:D:157:GLU:H	1.81	0.45
3:D:827:ILE:H	3:D:828:LYS:HZ1	1.65	0.45
1:K:72:LYS:HB3	1:K:73:GLU:OE2	2.16	0.45
1:L:111:ALA:HB3	1:L:124:ASN:O	2.18	0.45
1:L:71:VAL:HG22	1:L:132:LEU:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	2.00	0.45
2:M:207:LEU:HD23	2:M:211:LEU:HD23	1.98	0.45
2:M:267:TYR:H	2:M:267:TYR:HD2	1.65	0.45
2:M:365:ASP:O	2:M:367:LEU:HD12	2.17	0.45
2:M:747:ALA:O	2:M:799:ILE:HA	2.17	0.45
3:N:1045:MET:HE3	9:N:9946:HOH:O	2.17	0.45
3:N:191:LEU:HA	3:N:191:LEU:HD23	1.82	0.45
3:N:397:LYS:HZ1	3:N:399:ARG:HH21	1.65	0.45
3:N:659:LYS:O	3:N:663:GLU:HG3	2.17	0.45
5:P:142:ARG:HB2	9:P:3557:HOH:O	2.17	0.45
5:P:154:LYS:HD3	9:P:3717:HOH:O	2.16	0.45
5:P:184:ARG:O	5:P:188:ILE:HG13	2.16	0.45
5:P:287:THR:O	5:P:289:GLU:N	2.49	0.45
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.17	0.44
2:C:114:PHE:HD1	2:C:114:PHE:N	2.13	0.44
2:C:479:VAL:HG23	2:C:506:ASN:O	2.17	0.44
2:C:876:VAL:HG21	3:D:949:ILE:HG13	1.98	0.44
3:D:1023:MET:O	3:D:1028:ALA:HB3	2.17	0.44
3:D:1066:THR:OG1	3:D:1067:VAL:N	2.50	0.44
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.81	0.44
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.17	0.44
3:D:33:ASN:HD21	3:D:35:ARG:NE	2.15	0.44
3:D:396:VAL:HG13	3:D:446:VAL:O	2.17	0.44
3:D:828:LYS:HD3	3:D:828:LYS:N	2.32	0.44
5:F:300:ASP:HA	9:F:9583:HOH:O	2.17	0.44
2:M:167:LYS:HD3	2:M:168:ARG:N	2.32	0.44
2:M:458:TYR:CD2	2:M:470:PRO:HG3	2.52	0.44
2:M:52:PHE:HB3	9:M:2228:HOH:O	2.16	0.44
2:M:704:HIS:HB2	2:M:831:ARG:NE	2.24	0.44
3:N:1500:LYS:HB3	9:N:9903:HOH:O	2.16	0.44
5:P:308:LEU:O	5:P:312:GLN:HG3	2.17	0.44
5:P:393:THR:O	5:P:397:ILE:HG13	2.17	0.44
1:A:115:LEU:O	1:A:115:LEU:HD12	2.16	0.44
1:A:31:GLY:HA2	2:C:938:LYS:HE2	1.99	0.44
1:A:46:SER:HB3	2:C:856:GLU:CG	2.48	0.44
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.99	0.44
2:C:1051:GLU:HG3	2:C:1055:LEU:HD12	2.00	0.44
2:C:1103:ASP:N	2:C:1107:ASN:O	2.50	0.44
2:C:181:VAL:HG12	2:C:182:VAL:N	2.32	0.44
2:C:216:GLU:HA	9:C:2087:HOH:O	2.16	0.44
2:C:288:ARG:HD2	2:C:288:ARG:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:110:GLU:N	2:C:368:THR:HG21	2.27	0.44
2:C:462:ASP:CG	2:C:468:ARG:HD2	2.37	0.44
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.79	0.44
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.52	0.44
3:D:220:ARG:HA	9:D:2217:HOH:O	2.16	0.44
3:D:611:GLN:HB2	9:D:2875:HOH:O	2.16	0.44
3:D:965:GLU:O	3:D:968:ASP:HB2	2.17	0.44
4:E:55:PHE:N	9:E:9537:HOH:O	2.50	0.44
5:F:323:ASP:C	5:F:325:LYS:H	2.21	0.44
5:F:361:LEU:HD22	5:F:366:ALA:HB2	1.99	0.44
1:K:59:GLU:HG3	1:K:139:ASN:O	2.16	0.44
1:K:161:ARG:HH11	1:K:161:ARG:HB2	1.79	0.44
1:K:34:VAL:HG23	9:K:4850:HOH:O	2.18	0.44
2:M:167:LYS:HA	9:M:2164:HOH:O	2.15	0.44
2:M:257:VAL:HG13	9:M:9979:HOH:O	2.17	0.44
2:M:309:TYR:O	2:M:313:LEU:HB3	2.17	0.44
2:M:338:GLU:O	2:M:341:THR:HG22	2.17	0.44
2:M:438:ILE:HG22	2:M:439:CYS:O	2.17	0.44
2:M:515:ALA:O	2:M:516:ARG:HD3	2.18	0.44
2:M:607:ASP:HB3	2:M:609:ASN:H	1.81	0.44
2:M:72:ARG:HG3	9:M:2023:HOH:O	2.16	0.44
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.73	0.44
3:N:1242:HIS:HE1	3:N:1266:ARG:CZ	2.30	0.44
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.52	0.44
3:N:1310:ARG:HB2	9:N:2073:HOH:O	2.17	0.44
3:N:196:VAL:HG13	3:N:202:VAL:HG11	1.99	0.44
3:N:112:ILE:HG22	3:N:512:MET:SD	2.57	0.44
1:A:153:ALA:HA	1:A:156:HIS:NE2	2.32	0.44
2:C:274:ARG:HB2	2:C:285:LEU:CD1	2.48	0.44
3:D:1284:GLU:HG3	3:D:1293:PHE:HE1	1.82	0.44
3:D:187:LYS:HA	3:D:187:LYS:HD3	1.76	0.44
3:D:85:VAL:HG12	3:D:89:ARG:NE	2.32	0.44
5:F:416:ARG:NH1	5:F:419:ARG:HB2	2.32	0.44
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.52	0.44
1:L:104:GLU:HB3	9:L:3981:HOH:O	2.17	0.44
1:L:112:ARG:HH12	1:L:125:PRO:HB2	1.82	0.44
1:L:13:VAL:HG13	1:L:23:PHE:CD1	2.53	0.44
2:M:148:PHE:HB2	2:M:313:LEU:HD13	1.98	0.44
2:M:411:SER:HA	2:M:452:ILE:HA	1.98	0.44
2:M:554:ASP:OD2	2:M:556:ASN:HB3	2.17	0.44
2:M:586:ARG:CZ	2:M:590:ASP:OD2	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1031:ASN:OD1	3:N:1033:GLN:N	2.49	0.44
3:N:891:GLU:OE1	3:N:891:GLU:HA	2.17	0.44
3:N:1495:ILE:HG21	4:O:80:VAL:HG13	1.98	0.44
4:O:96:GLU:HG3	9:O:4005:HOH:O	2.17	0.44
9:M:9721:HOH:O	5:P:374:GLY:HA2	2.17	0.44
1:B:20:TYR:HB3	9:B:9575:HOH:O	2.18	0.44
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.47	0.44
2:C:1100:GLN:HB3	9:C:9972:HOH:O	2.17	0.44
2:C:137:VAL:HG22	2:C:391:LEU:O	2.17	0.44
2:C:254:VAL:HG22	9:C:9577:HOH:O	2.16	0.44
2:C:366:SER:HA	9:C:9836:HOH:O	2.18	0.44
2:C:437:ARG:HB3	2:C:467:ILE:HB	1.98	0.44
2:C:780:GLU:O	2:C:782:ALA:N	2.50	0.44
2:C:795:GLY:HA3	2:C:1004:LYS:HD2	2.00	0.44
3:D:1106:VAL:CG2	3:D:1474:ALA:HB2	2.47	0.44
3:D:1425:THR:CG2	3:D:1426:LYS:N	2.81	0.44
3:D:23:TYR:HB2	3:D:49:ILE:O	2.17	0.44
3:D:932:ASP:HA	3:D:935:LYS:HE2	2.00	0.44
4:E:44:GLU:C	4:E:45:ARG:HG3	2.36	0.44
3:D:1491:THR:HG21	4:E:89:MET:SD	2.58	0.44
2:C:773:LEU:HD13	5:F:373:LYS:HG3	1.99	0.44
1:K:63:HIS:CD2	1:K:65:PHE:H	2.36	0.44
1:K:79:ILE:HD11	9:M:2040:HOH:O	2.16	0.44
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.46	0.44
2:M:1102:LEU:HB2	3:N:7:LYS:HB2	1.99	0.44
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.98	0.44
2:M:140:ILE:HD12	2:M:140:ILE:H	1.82	0.44
2:M:177:GLU:HB2	9:M:2552:HOH:O	2.17	0.44
2:M:290:LEU:HD22	2:M:302:VAL:HG11	2.00	0.44
2:M:139:GLN:OE1	2:M:415:PRO:HD2	2.18	0.44
2:M:63:GLY:O	2:M:103:LYS:HE2	2.16	0.44
2:M:722:ILE:HD11	2:M:756:VAL:HG11	1.99	0.44
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.53	0.44
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.17	0.44
2:M:1091:GLU:OE1	3:N:613:ARG:HG2	2.17	0.44
3:N:607:LEU:HD22	3:N:614:PHE:CE2	2.51	0.44
3:N:67:ARG:HD2	3:N:67:ARG:HA	1.75	0.44
2:M:1090:LYS:HZ2	3:N:90:MET:HG3	1.80	0.44
5:P:142:ARG:HH11	5:P:142:ARG:CB	2.26	0.44
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.50	0.44
2:C:1003:ASP:O	2:C:1005:MET:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1052:MET:SD	2:C:1056:LYS:HD3	2.56	0.44
2:C:1060:ILE:CG2	2:C:1061:GLU:H	2.30	0.44
2:C:395:LYS:NZ	2:C:407:LYS:HZ2	2.16	0.44
2:C:444:PRO:CD	2:C:452:ILE:HG13	2.48	0.44
2:C:48:PHE:HA	2:C:348:LEU:CD2	2.47	0.44
2:C:751:PRO:HA	2:C:792:VAL:HB	2.00	0.44
2:C:952:LEU:HB3	2:C:966:LEU:HD11	1.99	0.44
3:D:1073:SER:HB2	9:D:9940:HOH:O	2.18	0.44
3:D:432:TYR:HA	3:D:448:GLU:O	2.18	0.44
3:D:696:HIS:HD2	4:E:59:ASN:HB2	1.83	0.44
3:D:860:LEU:HD23	3:D:877:PRO:HB2	2.00	0.44
5:F:363:GLU:HG2	9:F:9732:HOH:O	2.17	0.44
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.17	0.44
5:F:395:GLU:OE1	5:F:395:GLU:HA	2.16	0.44
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.52	0.44
1:K:9:PRO:HB3	1:K:25:LEU:HG	1.99	0.44
2:M:1088:LEU:HD13	9:N:2483:HOH:O	2.18	0.44
2:M:230:ARG:HG3	9:M:9597:HOH:O	2.17	0.44
2:M:342:ASP:O	2:M:345:ARG:HG2	2.17	0.44
2:M:420:ARG:HG2	2:M:422:ARG:HG2	1.99	0.44
2:M:564:MET:SD	2:M:846:LYS:HG3	2.58	0.44
2:M:726:ILE:O	2:M:726:ILE:HG22	2.18	0.44
3:N:1394:VAL:HB	3:N:1397:LYS:CD	2.47	0.44
3:N:573:MET:HG2	9:N:9585:HOH:O	2.18	0.44
2:M:1005:MET:CE	3:N:648:MET:HB2	2.48	0.44
3:N:702:LEU:N	3:N:702:LEU:HD22	2.33	0.44
3:N:87:ARG:HB3	3:N:523:ASP:CB	2.48	0.44
3:N:693:GLU:HG3	4:O:48:MET:SD	2.57	0.44
1:A:128:HIS:HE1	9:A:9698:HOH:O	2.01	0.44
1:A:23:PHE:CE1	1:A:211:LEU:HD23	2.53	0.44
1:B:163:ASN:HA	9:B:9544:HOH:O	2.17	0.44
2:C:352:ALA:CA	2:C:355:VAL:HG12	2.46	0.44
2:C:54:ILE:CD1	2:C:356:ARG:HG2	2.46	0.44
2:C:369:PRO:CG	2:C:370:ALA:H	2.30	0.44
2:C:435:TYR:C	2:C:437:ARG:H	2.21	0.44
2:C:582:GLY:N	2:C:584:GLU:OE2	2.45	0.44
2:C:879:ARG:HB3	9:C:9575:HOH:O	2.17	0.44
3:D:1090:ASP:C	3:D:1092:GLY:N	2.69	0.44
3:D:1326:THR:HA	9:D:9899:HOH:O	2.17	0.44
1:L:62:LEU:H	1:L:62:LEU:HD12	1.82	0.44
2:M:309:TYR:HA	9:M:9614:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:679:PHE:HD2	2:M:682:TYR:HD2	1.65	0.44
2:M:754:ILE:HD12	9:M:2146:HOH:O	2.18	0.44
3:N:1128:VAL:O	3:N:1129:THR:C	2.55	0.44
3:N:135:LEU:HD11	3:N:139:GLY:HA3	1.99	0.44
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.48	0.44
3:N:488:ARG:CZ	3:N:488:ARG:HB3	2.47	0.44
3:N:18:ILE:HD12	3:N:518:PRO:HD3	1.99	0.44
3:N:631:ILE:O	3:N:632:VAL:HG23	2.18	0.44
3:N:754:PHE:CE2	3:N:1476:THR:HG21	2.52	0.44
3:N:863:VAL:HG12	9:N:9691:HOH:O	2.18	0.44
3:N:960:LYS:HG2	3:N:964:LEU:HD12	2.00	0.44
4:O:62:THR:HA	4:O:65:MET:CE	2.46	0.44
5:P:301:ALA:N	9:P:3676:HOH:O	2.51	0.44
1:A:69:PRO:O	1:A:71:VAL:HG23	2.18	0.44
2:C:198:ARG:NH2	9:C:2102:HOH:O	2.50	0.44
2:C:707:ARG:NH2	2:C:824:ARG:HH11	2.15	0.44
3:D:1164:ARG:HG3	3:D:1164:ARG:NH1	2.32	0.44
3:D:1145:TYR:HE2	3:D:1168:MET:HB2	1.82	0.44
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.81	0.44
3:D:1321:ALA:O	3:D:1339:LYS:HD3	2.18	0.44
3:D:135:LEU:HD11	3:D:139:GLY:HA3	2.00	0.44
3:D:140:ALA:HB2	9:D:2414:HOH:O	2.17	0.44
3:D:505:SER:HB3	9:D:2397:HOH:O	2.17	0.44
3:D:539:ASP:HB3	9:D:9656:HOH:O	2.17	0.44
2:C:1039:ALA:HB2	3:D:707:THR:HG21	1.99	0.44
3:D:74:GLU:HG3	9:D:2222:HOH:O	2.18	0.44
1:K:48:ILE:HD12	1:K:174:VAL:HG21	1.99	0.44
1:L:110:LYS:NZ	1:L:110:LYS:HB2	2.33	0.44
1:K:9:PRO:CB	1:L:224:TYR:HB3	2.43	0.44
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.17	0.44
2:M:310:LEU:O	2:M:313:LEU:HD23	2.17	0.44
2:M:401:LEU:HD12	2:M:587:VAL:HG11	2.00	0.44
2:M:465:GLY:N	9:M:9933:HOH:O	2.51	0.44
2:M:575:GLN:HA	2:M:662:GLU:CD	2.38	0.44
2:M:611:ILE:N	2:M:611:ILE:HD12	2.33	0.44
2:M:640:ARG:HG2	2:M:640:ARG:NH1	2.32	0.44
3:N:1025:GLN:HB3	9:N:9833:HOH:O	2.16	0.44
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	2.00	0.44
3:N:421:LEU:HD11	3:N:437:VAL:CG2	2.48	0.44
3:N:777:PRO:HD2	3:N:912:LYS:HG2	2.00	0.44
3:N:864:VAL:HG12	3:N:865:THR:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1090:LYS:NZ	3:N:90:MET:CG	2.80	0.44
1:A:66:SER:O	1:A:75:VAL:HG23	2.18	0.44
1:B:45:LEU:HD23	1:B:174:VAL:HG12	2.00	0.44
2:C:1026:GLN:HA	9:C:9758:HOH:O	2.18	0.44
2:C:127:PHE:CE1	2:C:386:PHE:HE2	2.36	0.44
2:C:197:LEU:HD12	2:C:207:LEU:HD11	1.99	0.44
2:C:488:ALA:O	2:C:491:GLU:HG2	2.16	0.44
2:C:693:GLU:HA	2:C:696:LYS:CG	2.48	0.44
2:C:722:ILE:HG21	2:C:821:GLU:OE2	2.18	0.44
2:C:726:ILE:HG23	2:C:787:ASP:OD2	2.18	0.44
2:C:94:LEU:HD12	2:C:95:TYR:N	2.32	0.44
3:D:126:VAL:HG22	9:D:9864:HOH:O	2.17	0.44
3:D:1336:LEU:HB2	3:D:1344:VAL:HG21	2.00	0.44
3:D:1496:GLU:HG2	9:D:2624:HOH:O	2.17	0.44
3:D:651:GLU:HA	3:D:651:GLU:OE1	2.18	0.44
3:D:659:LYS:C	3:D:659:LYS:HD3	2.38	0.44
3:D:710:ARG:NH2	9:D:2362:HOH:O	2.51	0.44
3:D:868:TYR:CG	3:D:869:MET:N	2.85	0.44
1:K:175:ARG:NE	1:K:202:ASP:HA	2.32	0.44
1:L:112:ARG:HB2	9:L:5043:HOH:O	2.17	0.44
1:L:20:TYR:OH	1:L:198:ARG:HD2	2.17	0.44
1:L:7:LYS:HZ2	1:L:186:LEU:HD21	1.83	0.44
2:M:129:ILE:HG22	2:M:130:ASN:N	2.31	0.44
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.47	0.44
2:M:338:GLU:HA	2:M:341:THR:HG22	1.99	0.44
2:M:881:ASN:ND2	2:M:881:ASN:H	2.15	0.44
2:M:972:VAL:HG23	2:M:974:LEU:CD1	2.48	0.44
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.48	0.44
3:N:1149:LEU:CD2	3:N:1166:LEU:HD22	2.48	0.44
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.18	0.44
3:N:1283:ILE:HD12	3:N:1315:ASP:CG	2.38	0.44
3:N:1345:GLU:H	3:N:1345:GLU:HG2	1.70	0.44
3:N:1364:HIS:CE1	3:N:1366:LYS:H	2.35	0.44
3:N:1432:LYS:HB2	9:N:9954:HOH:O	2.18	0.44
3:N:598:ARG:HG2	3:N:598:ARG:NH1	2.33	0.44
9:M:9863:HOH:O	3:N:89:ARG:HG3	2.16	0.44
4:O:16:LYS:HD3	4:O:17:TYR:HE2	1.83	0.44
4:O:76:GLY:N	4:O:79:LEU:HD22	2.33	0.44
5:P:287:THR:HG23	5:P:289:GLU:HB2	2.00	0.44
1:A:95:GLN:HB3	9:A:9650:HOH:O	2.18	0.44
1:B:176:ARG:HG3	1:B:200:TRP:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1109:VAL:HG22	3:D:3:LYS:CG	2.47	0.44
2:C:157:ARG:HD3	2:C:158:TYR:N	2.33	0.44
2:C:279:GLU:HG3	2:C:280:LYS:N	2.32	0.44
2:C:302:VAL:O	2:C:306:THR:HG23	2.18	0.44
2:C:572:ILE:HG13	2:C:573:ARG:N	2.33	0.44
3:D:1132:LEU:HA	3:D:1132:LEU:HD12	1.86	0.44
3:D:1242:HIS:CE1	3:D:1266:ARG:HB3	2.53	0.44
3:D:1310:ARG:NH1	3:D:1327:ARG:HD3	2.33	0.44
3:D:1394:VAL:HB	3:D:1397:LYS:CD	2.46	0.44
3:D:569:ASN:HD21	5:F:210:LEU:HD22	1.83	0.44
3:D:983:LEU:HD13	3:D:991:GLN:OE1	2.18	0.44
5:F:127:ILE:HD11	9:F:9677:HOH:O	2.17	0.44
5:F:196:VAL:HG13	5:F:213:ILE:CD1	2.48	0.44
1:K:173:PRO:HA	1:K:202:ASP:OD1	2.17	0.44
1:K:32:PHE:N	9:K:4770:HOH:O	2.49	0.44
1:L:208:LEU:HG	9:L:6488:HOH:O	2.17	0.44
2:M:475:VAL:HB	9:M:9558:HOH:O	2.17	0.44
2:M:644:VAL:HG22	9:M:9667:HOH:O	2.18	0.44
2:M:688:ILE:CD1	2:M:847:GLY:HA3	2.47	0.44
2:M:814:GLU:HA	9:M:2144:HOH:O	2.18	0.44
2:M:814:GLU:HG3	2:M:814:GLU:O	2.18	0.44
2:M:821:GLU:HG2	2:M:822:VAL:N	2.33	0.44
3:N:1014:ASN:HB3	9:N:9933:HOH:O	2.18	0.44
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	2.00	0.44
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.17	0.44
3:N:1282:ARG:HD3	3:N:1295:GLU:OE1	2.18	0.44
3:N:1489:GLN:O	3:N:1493:LYS:HG2	2.18	0.44
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.22	0.44
4:O:42:PRO:HG2	9:O:4104:HOH:O	2.17	0.44
4:O:59:ASN:HD22	4:O:59:ASN:HA	1.61	0.44
5:P:113:ILE:HB	9:P:4593:HOH:O	2.17	0.44
5:P:208:SER:HB2	5:P:211:ASP:CG	2.38	0.44
1:B:149:GLY:O	1:B:171:PHE:HB2	2.18	0.43
2:C:1005:MET:HB2	9:C:9600:HOH:O	2.18	0.43
2:C:289:THR:O	2:C:291:ALA:N	2.51	0.43
2:C:342:ASP:HA	2:C:345:ARG:HG2	2.00	0.43
2:C:64:LEU:HD13	2:C:359:MET:HG3	2.00	0.43
2:C:437:ARG:HE	2:C:469:THR:H	1.66	0.43
2:C:528:GLU:O	2:C:530:GLU:HG3	2.18	0.43
2:C:690:ILE:CG2	2:C:852:ILE:HG23	2.47	0.43
3:D:115:LEU:HD22	3:D:502:PHE:HE1	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:141:ILE:HD13	3:D:449:SER:HA	2.00	0.43
3:D:754:PHE:HE2	3:D:1476:THR:HG21	1.83	0.43
3:D:472:ALA:HB1	9:D:2893:HOH:O	2.18	0.43
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.99	0.43
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.48	0.43
3:D:983:LEU:HB2	9:D:9941:HOH:O	2.18	0.43
4:E:51:LEU:HB3	9:E:9581:HOH:O	2.18	0.43
4:E:70:THR:HG22	4:E:71:GLY:N	2.33	0.43
5:F:198:ILE:HD11	9:F:9857:HOH:O	2.17	0.43
5:F:256:ARG:HA	9:F:9900:HOH:O	2.17	0.43
1:K:162:ILE:HG13	1:K:163:ASN:N	2.33	0.43
2:M:137:VAL:HG23	2:M:391:LEU:CD1	2.47	0.43
2:M:480:THR:HG22	2:M:481:ASP:N	2.33	0.43
2:M:854:PRO:C	2:M:856:GLU:N	2.70	0.43
2:M:861:LEU:HD23	2:M:862:PRO:CD	2.46	0.43
3:N:1365:ASP:O	3:N:1369:GLU:HG3	2.18	0.43
3:N:1459:LEU:HD22	3:N:1465:ASN:HA	1.99	0.43
3:N:179:VAL:O	3:N:183:GLU:HB2	2.18	0.43
3:N:464:LEU:HD11	9:N:9914:HOH:O	2.18	0.43
3:N:598:ARG:NH2	5:P:319:THR:HA	2.33	0.43
3:N:78:VAL:HG12	3:N:78:VAL:O	2.17	0.43
4:O:20:THR:N	9:O:3658:HOH:O	2.50	0.43
4:O:29:GLN:HB2	4:O:33:HIS:NE2	2.33	0.43
5:P:150:THR:HG23	9:P:3557:HOH:O	2.18	0.43
1:A:95:GLN:HG2	1:A:146:ARG:HH12	1.83	0.43
1:B:156:HIS:CE1	1:B:158:ILE:H	2.36	0.43
1:B:67:THR:HB	1:B:74:ASP:OD1	2.18	0.43
2:C:1057:SER:HB2	3:D:622:ARG:O	2.18	0.43
2:C:326:ASP:HA	9:C:9742:HOH:O	2.18	0.43
2:C:502:PRO:HB2	2:C:509:ALA:HB3	2.00	0.43
2:C:51:THR:O	2:C:51:THR:HG22	2.19	0.43
2:C:536:PRO:HB2	2:C:905:ILE:HD13	2.00	0.43
2:C:683:ASN:N	2:C:683:ASN:OD1	2.50	0.43
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.76	0.43
3:D:1147:ARG:HH12	3:D:1190:SER:HB2	1.83	0.43
3:D:1164:ARG:HG3	3:D:1164:ARG:HH11	1.82	0.43
3:D:13:ALA:O	3:D:511:TRP:HB3	2.18	0.43
3:D:493:ARG:HA	9:D:2197:HOH:O	2.19	0.43
3:D:527:MET:CE	5:F:258:ILE:HD11	2.48	0.43
3:D:984:THR:CG2	3:D:987:GLU:H	2.30	0.43
5:F:163:LEU:HB3	5:F:174:LEU:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:D:2010:HOH:O	5:F:326:ASP:HA	2.18	0.43
1:K:43:ILE:HD13	9:L:5637:HOH:O	2.18	0.43
2:M:19:THR:HG21	2:M:125:GLY:HA3	2.00	0.43
2:M:243:ARG:HB3	9:M:2252:HOH:O	2.18	0.43
2:M:260:LEU:HD23	2:M:293:PHE:HB3	2.01	0.43
2:M:369:PRO:HD2	9:M:9605:HOH:O	2.17	0.43
2:M:721:ARG:HG3	9:M:9649:HOH:O	2.18	0.43
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.90	0.43
3:N:1293:PHE:C	9:N:9607:HOH:O	2.56	0.43
3:N:133:ILE:HG12	3:N:133:ILE:H	1.47	0.43
3:N:138:LYS:HB2	3:N:138:LYS:NZ	2.33	0.43
3:N:1438:ALA:N	3:N:1446:VAL:HG11	2.33	0.43
3:N:1468:LEU:HD23	3:N:1468:LEU:O	2.17	0.43
3:N:465:LEU:HD13	3:N:509:PRO:O	2.18	0.43
2:M:1005:MET:HE2	3:N:648:MET:CE	2.47	0.43
3:N:799:LYS:O	3:N:799:LYS:HD3	2.18	0.43
4:O:5:GLY:HA3	4:O:8:LYS:HD2	2.00	0.43
5:P:203:THR:HG22	5:P:204:GLY:N	2.34	0.43
3:N:388:HIS:H	5:P:97:GLU:HG3	1.83	0.43
1:B:101:LEU:HG	1:B:113:ASP:C	2.38	0.43
1:B:122:ILE:HD11	9:B:9749:HOH:O	2.18	0.43
2:C:104:ASP:HA	9:C:9858:HOH:O	2.18	0.43
2:C:101:ILE:HD12	2:C:107:LEU:HD22	2.00	0.43
2:C:196:LEU:O	2:C:199:VAL:HB	2.19	0.43
2:C:236:ILE:O	2:C:239:PHE:HB2	2.19	0.43
2:C:257:VAL:HG22	9:C:2287:HOH:O	2.18	0.43
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.46	0.43
2:C:260:LEU:HA	2:C:291:ALA:CB	2.47	0.43
2:C:389:SER:C	2:C:391:LEU:H	2.20	0.43
2:C:413:LEU:HD12	2:C:413:LEU:N	2.33	0.43
2:C:50:GLU:HB2	9:C:9766:HOH:O	2.17	0.43
2:C:516:ARG:NH2	3:D:1068:LEU:HB3	2.33	0.43
2:C:54:ILE:CG2	2:C:66:LEU:HB3	2.48	0.43
2:C:801:VAL:HG12	9:C:9826:HOH:O	2.19	0.43
2:C:839:LEU:HD21	2:C:849:VAL:CG2	2.48	0.43
2:C:979:THR:HG23	2:C:981:GLU:HB2	1.99	0.43
3:D:175:VAL:HG11	3:D:218:LYS:H	1.84	0.43
3:D:400:VAL:HA	3:D:442:ASN:O	2.19	0.43
3:D:525:ARG:HB2	3:D:541:ASN:ND2	2.32	0.43
3:D:829:VAL:H	3:D:835:SER:HB2	1.83	0.43
3:D:867:ARG:CG	3:D:867:ARG:HH11	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:891:GLU:HG3	9:D:2312:HOH:O	2.18	0.43
3:D:899:LEU:CB	3:D:917:GLN:HG2	2.47	0.43
3:D:924:MET:HB3	4:E:7:ASP:OD1	2.18	0.43
5:F:114:LYS:O	5:F:118:GLU:HG3	2.18	0.43
5:F:205:ARG:CD	5:F:251:ILE:HG21	2.47	0.43
1:K:133:GLU:HG3	9:M:2288:HOH:O	2.17	0.43
1:K:44:LEU:HD21	1:K:199:ILE:HD13	2.00	0.43
1:L:7:LYS:NZ	1:L:186:LEU:HD21	2.33	0.43
1:L:95:GLN:HG2	9:L:6455:HOH:O	2.18	0.43
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	2.00	0.43
2:M:226:VAL:HG21	9:M:9691:HOH:O	2.18	0.43
2:M:189:ARG:HH22	2:M:243:ARG:HG2	1.83	0.43
2:M:411:SER:OG	2:M:452:ILE:HG23	2.19	0.43
2:M:464:LEU:HA	2:M:464:LEU:HD12	1.81	0.43
2:M:602:GLU:HG2	2:M:603:VAL:N	2.33	0.43
2:M:603:VAL:H	2:M:647:GLN:H	1.66	0.43
2:M:654:LEU:HD13	2:M:664:GLY:N	2.33	0.43
2:M:695:LEU:HD22	2:M:832:LYS:HG2	2.00	0.43
1:L:30:ARG:CZ	2:M:854:PRO:HG3	2.48	0.43
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.99	0.43
2:M:82:GLU:OE2	2:M:86:LYS:HD3	2.19	0.43
2:M:877:PRO:HG3	3:N:1023:MET:CE	2.48	0.43
3:N:1026:SER:C	3:N:1028:ALA:H	2.21	0.43
3:N:12:LEU:HD23	3:N:13:ALA:N	2.28	0.43
3:N:1441:GLN:HE21	3:N:1441:GLN:HB3	1.69	0.43
2:M:1085:PHE:CE2	3:N:1468:LEU:HA	2.52	0.43
3:N:171:LEU:HD21	9:N:2196:HOH:O	2.17	0.43
3:N:27:GLU:C	3:N:28:LYS:HD2	2.38	0.43
3:N:567:ILE:HG22	3:N:571:LYS:CE	2.49	0.43
3:N:683:ILE:HD12	3:N:683:ILE:N	2.33	0.43
3:N:988:ARG:HH11	3:N:992:ILE:HD11	1.83	0.43
4:O:8:LYS:HD2	4:O:69:LEU:HD11	2.01	0.43
5:P:226:LYS:HB2	5:P:238:TYR:OH	2.18	0.43
5:P:321:ILE:O	5:P:327:SER:HB3	2.17	0.43
5:P:80:PRO:HA	5:P:83:GLN:HB2	2.00	0.43
2:C:332:ARG:HE	2:C:464:LEU:CD1	2.29	0.43
2:C:115:LEU:HA	2:C:375:SER:CB	2.48	0.43
2:C:52:PHE:HB3	2:C:53:PRO:HD3	1.99	0.43
2:C:717:LEU:HB3	9:C:9827:HOH:O	2.18	0.43
2:C:726:ILE:HG22	2:C:726:ILE:O	2.18	0.43
2:C:876:VAL:HA	9:C:9650:HOH:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:877:PRO:HG3	3:D:1020:LEU:HD12	2.00	0.43
2:C:949:LYS:HE2	3:D:828:LYS:HE3	2.01	0.43
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.18	0.43
3:D:1157:GLY:HA3	9:D:9683:HOH:O	2.16	0.43
3:D:1213:ARG:HB2	3:D:1214:PRO:HD3	1.99	0.43
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.48	0.43
3:D:1478:SER:OG	3:D:1481:VAL:HG23	2.18	0.43
3:D:42:ASP:HA	3:D:46:ASP:OD1	2.18	0.43
3:D:524:LEU:C	3:D:526:PRO:HD3	2.39	0.43
3:D:633:VAL:O	3:D:633:VAL:HG13	2.18	0.43
5:F:212:LEU:HD23	5:F:247:ILE:HG23	2.00	0.43
5:F:295:MET:HB3	5:F:299:TRP:CD1	2.54	0.43
5:F:321:ILE:O	5:F:327:SER:HB3	2.18	0.43
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.99	0.43
1:K:110:LYS:HB3	1:K:112:ARG:HD3	2.00	0.43
1:K:188:GLN:HB2	9:K:6263:HOH:O	2.18	0.43
2:M:1118:LYS:HG2	9:M:2038:HOH:O	2.18	0.43
2:M:333:ILE:HG22	2:M:465:GLY:HA3	2.00	0.43
2:M:396:ASP:CA	2:M:633:GLN:HE22	2.28	0.43
2:M:63:GLY:HA3	2:M:103:LYS:CG	2.48	0.43
2:M:773:LEU:HG	2:M:777:ILE:HD11	2.00	0.43
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.33	0.43
3:N:1147:ARG:HB3	3:N:1188:VAL:CG1	2.49	0.43
3:N:1219:GLU:HA	4:O:17:TYR:CE1	2.54	0.43
3:N:1263:PHE:HA	3:N:1375:MET:CE	2.48	0.43
3:N:153:LEU:HD11	3:N:158:TYR:CA	2.48	0.43
3:N:444:VAL:HG22	3:N:444:VAL:O	2.18	0.43
3:N:488:ARG:H	3:N:488:ARG:HG2	1.49	0.43
3:N:95:LEU:CD2	3:N:574:LEU:HD11	2.47	0.43
3:N:806:PHE:CG	3:N:806:PHE:O	2.71	0.43
3:N:80:VAL:HG12	3:N:81:THR:H	1.83	0.43
3:N:895:VAL:HG11	3:N:922:LEU:HD21	1.99	0.43
4:O:81:PRO:HB3	9:O:3911:HOH:O	2.18	0.43
5:P:218:GLN:HG3	9:P:3800:HOH:O	2.18	0.43
5:P:370:LYS:C	5:P:370:LYS:HD2	2.38	0.43
5:P:392:VAL:HG12	5:P:396:ARG:HB2	1.98	0.43
1:A:157:GLY:HA3	9:A:9582:HOH:O	2.19	0.43
1:A:53:VAL:HG12	1:A:167:VAL:HG21	1.99	0.43
1:B:56:VAL:HG13	1:B:142:VAL:HG12	2.01	0.43
2:C:1076:VAL:CG2	3:D:752:SER:HA	2.48	0.43
2:C:1094:ALA:HB1	3:D:603:LEU:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1117:SER:HB3	9:C:2289:HOH:O	2.18	0.43
2:C:428:ARG:HD3	2:C:449:ILE:HG23	2.00	0.43
2:C:612:VAL:HG22	2:C:622:GLU:HB2	2.00	0.43
2:C:631:SER:HB3	2:C:637:LEU:HD21	2.01	0.43
2:C:700:TYR:HA	9:C:9842:HOH:O	2.19	0.43
2:C:73:LEU:N	2:C:73:LEU:HD23	2.33	0.43
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.99	0.43
3:D:1191:PRO:HB3	3:D:1370:ILE:HD13	1.99	0.43
3:D:212:ARG:HD2	9:D:9717:HOH:O	2.18	0.43
3:D:3:LYS:H	3:D:3:LYS:CD	2.31	0.43
4:E:63:TRP:O	4:E:67:GLU:HG3	2.19	0.43
1:L:88:ARG:NH1	1:L:88:ARG:HG2	2.32	0.43
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.19	0.43
2:M:42:VAL:HG12	2:M:43:GLY:H	1.83	0.43
2:M:56:GLU:HA	2:M:56:GLU:OE1	2.18	0.43
3:N:1012:GLU:HA	9:N:9575:HOH:O	2.17	0.43
3:N:119:SER:H	3:N:123:LEU:CD1	2.29	0.43
3:N:1423:GLY:HA3	9:N:9705:HOH:O	2.19	0.43
3:N:152:LEU:CD2	3:N:152:LEU:H	2.24	0.43
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.37	0.43
3:N:209:ARG:NH2	9:N:9622:HOH:O	2.50	0.43
3:N:400:VAL:HA	3:N:442:ASN:O	2.18	0.43
3:N:455:ARG:NH1	3:N:455:ARG:HG2	2.33	0.43
3:N:571:LYS:HZ2	3:N:571:LYS:HB2	1.83	0.43
3:N:666:ILE:HG23	9:N:2719:HOH:O	2.18	0.43
3:N:770:LEU:HD21	3:N:919:PHE:CG	2.54	0.43
3:N:777:PRO:HA	9:N:9909:HOH:O	2.18	0.43
1:A:205:VAL:HG23	1:A:206:THR:H	1.82	0.43
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.99	0.43
2:C:102:HIS:HD2	9:C:2260:HOH:O	2.00	0.43
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.98	0.43
2:C:7:GLY:HA3	2:C:907:ASP:CG	2.39	0.43
3:D:1026:SER:C	3:D:1028:ALA:H	2.20	0.43
3:D:1280:VAL:HG12	3:D:1316:GLY:O	2.18	0.43
2:C:1109:VAL:HG13	3:D:3:LYS:HG2	2.01	0.43
3:D:141:ILE:CD1	3:D:449:SER:HA	2.49	0.43
3:D:478:LEU:HD21	3:D:500:ARG:HH21	1.80	0.43
3:D:525:ARG:HB2	3:D:541:ASN:HD21	1.82	0.43
3:D:531:ASP:C	3:D:533:GLY:N	2.67	0.43
3:D:806:PHE:O	3:D:807:ALA:C	2.57	0.43
3:D:799:LYS:N	3:D:826:PRO:HG2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:193:ARG:NH2	9:F:9899:HOH:O	2.51	0.43
1:K:216:GLU:O	1:K:220:GLU:HG3	2.19	0.43
1:K:66:SER:O	1:K:75:VAL:HG23	2.18	0.43
2:M:172:ILE:N	2:M:172:ILE:HD12	2.33	0.43
2:M:26:TYR:CE1	2:M:30:LEU:HD11	2.53	0.43
2:M:383:ARG:HD3	9:M:2458:HOH:O	2.19	0.43
2:M:414:GLY:O	2:M:416:GLY:N	2.51	0.43
2:M:503:LEU:HD12	2:M:505:GLY:O	2.19	0.43
1:K:67:THR:N	2:M:627:ARG:HH21	2.14	0.43
2:M:687:ALA:C	2:M:688:ILE:HD12	2.38	0.43
2:M:879:ARG:CZ	9:M:9982:HOH:O	2.66	0.43
2:M:881:ASN:N	2:M:881:ASN:ND2	2.66	0.43
2:M:958:THR:HG22	9:M:9918:HOH:O	2.18	0.43
3:N:108:VAL:HG23	3:N:109:PRO:HD3	2.00	0.43
3:N:1108:ARG:HG3	3:N:1108:ARG:O	2.19	0.43
3:N:1394:VAL:HG21	3:N:1397:LYS:HE3	1.99	0.43
3:N:36:THR:O	3:N:38:LYS:N	2.49	0.43
3:N:169:TYR:HA	3:N:392:SER:HA	2.01	0.43
3:N:422:ALA:O	3:N:427:VAL:HG21	2.18	0.43
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.44	0.43
3:N:470:LEU:HG	3:N:470:LEU:H	1.60	0.43
3:N:130:SER:O	3:N:568:ARG:NH2	2.51	0.43
3:N:636:GLN:HB3	9:N:9859:HOH:O	2.19	0.43
3:N:629:SER:HG	3:N:726:ILE:HG13	1.83	0.43
9:L:4624:HOH:O	3:N:821:VAL:HG22	2.18	0.43
5:P:155:THR:O	5:P:159:ILE:HG13	2.18	0.43
5:P:408:LEU:HA	5:P:411:HIS:CE1	2.54	0.43
1:A:213:GLN:O	1:A:217:ILE:HG13	2.18	0.43
1:B:83:LYS:HE3	1:B:167:VAL:HG12	2.00	0.43
2:C:64:LEU:CD2	2:C:359:MET:HG3	2.36	0.43
2:C:427:VAL:HG21	9:C:9712:HOH:O	2.17	0.43
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.54	0.43
2:C:693:GLU:OE1	2:C:696:LYS:HG3	2.19	0.43
2:C:97:ARG:HG3	9:C:2099:HOH:O	2.17	0.43
3:D:797:LYS:NZ	3:D:1016:PRO:HB3	2.34	0.43
3:D:1045:MET:O	3:D:1053:PHE:HD1	2.01	0.43
3:D:1072:ILE:HG22	9:D:9822:HOH:O	2.18	0.43
3:D:1129:THR:HA	9:D:9689:HOH:O	2.18	0.43
3:D:1164:ARG:HH21	3:D:1170:ASP:CG	2.22	0.43
3:D:1197:ARG:CG	3:D:1198:TYR:H	2.32	0.43
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:191:LEU:HB2	3:D:211:VAL:CG2	2.49	0.43
3:D:519:VAL:HG13	3:D:544:TYR:CZ	2.54	0.43
3:D:785:ILE:HG22	3:D:789:LEU:HD12	2.01	0.43
3:D:789:LEU:O	3:D:792:ILE:HG23	2.19	0.43
3:D:827:ILE:H	3:D:828:LYS:NZ	2.16	0.43
5:F:74:LYS:HA	9:F:9750:HOH:O	2.18	0.43
1:K:128:HIS:CE1	1:K:131:THR:HG23	2.54	0.43
1:K:1:MET:N	1:K:1:MET:SD	2.91	0.43
9:K:4324:HOH:O	1:L:11:PHE:HB2	2.18	0.43
1:L:23:PHE:CE1	1:L:208:LEU:HD13	2.54	0.43
2:M:1000:MET:HB3	2:M:1002:GLU:CG	2.49	0.43
2:M:191:PHE:HD2	2:M:195:LEU:HD23	1.82	0.43
2:M:262:ALA:HB3	9:M:9979:HOH:O	2.18	0.43
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.83	0.43
2:M:282:GLY:HA2	2:M:308:ARG:HH21	1.82	0.43
2:M:136:ILE:HG21	2:M:336:VAL:HG13	2.00	0.43
2:M:498:GLN:O	2:M:532:MET:SD	2.76	0.43
2:M:636:ALA:HB2	2:M:703:ILE:CG2	2.47	0.43
2:M:717:LEU:HB3	9:M:9709:HOH:O	2.17	0.43
3:N:1267:ARG:HH11	3:N:1267:ARG:CB	2.31	0.43
3:N:1285:GLU:HG2	3:N:1286:THR:N	2.33	0.43
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.19	0.43
3:N:475:LYS:HA	3:N:478:LEU:HD12	2.01	0.43
3:N:493:ARG:HG3	3:N:494:LYS:N	2.33	0.43
3:N:546:ARG:HA	9:N:9938:HOH:O	2.19	0.43
3:N:60:CYS:HA	9:N:9716:HOH:O	2.18	0.43
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.53	0.43
5:P:361:LEU:HD13	5:P:366:ALA:CB	2.49	0.43
5:P:398:ARG:NH1	9:P:5295:HOH:O	2.52	0.43
1:A:49:PRO:O	1:A:173:PRO:HG3	2.18	0.43
2:C:474:VAL:HG13	2:C:530:GLU:O	2.19	0.43
2:C:585:GLU:HB2	9:C:9822:HOH:O	2.19	0.43
3:D:1098:LEU:N	3:D:1098:LEU:HD12	2.33	0.43
3:D:1087:ARG:CG	3:D:1234:THR:HA	2.47	0.43
3:D:119:SER:CB	3:D:123:LEU:H	2.27	0.43
3:D:1366:LYS:O	3:D:1369:GLU:HB2	2.18	0.43
3:D:1468:LEU:HD22	3:D:1470:ARG:CB	2.43	0.43
3:D:178:LEU:CD1	3:D:200:ASP:H	2.32	0.43
3:D:498:VAL:HG12	9:D:2771:HOH:O	2.19	0.43
3:D:501:ALA:HA	3:D:504:ASP:HB2	2.00	0.43
2:C:1033:GLY:HA2	3:D:619:LEU:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:805:GLU:O	3:D:805:GLU:OE1	2.37	0.43
3:D:838:ARG:HD3	3:D:874:GLU:HB3	1.99	0.43
3:D:925:GLU:HA	9:D:9640:HOH:O	2.18	0.43
3:D:984:THR:HG22	3:D:987:GLU:CD	2.39	0.43
4:E:58:PRO:HB2	9:E:9513:HOH:O	2.19	0.43
5:F:243:ILE:O	5:F:247:ILE:HG13	2.19	0.43
5:F:366:ALA:HB3	5:F:367:MET:CE	2.48	0.43
5:F:400:ILE:HG23	9:F:9566:HOH:O	2.19	0.43
1:K:32:PHE:HZ	1:L:47:SER:HG	1.65	0.43
2:M:1007:ALA:HB2	3:N:648:MET:HE2	2.00	0.43
2:M:232:GLU:O	2:M:235:LEU:HB2	2.18	0.43
2:M:289:THR:O	2:M:291:ALA:N	2.52	0.43
2:M:110:GLU:CG	2:M:369:PRO:HG3	2.49	0.43
2:M:413:LEU:N	2:M:413:LEU:HD12	2.33	0.43
2:M:139:GLN:CG	2:M:418:LEU:HD22	2.48	0.43
2:M:431:HIS:CD2	2:M:433:THR:H	2.36	0.43
2:M:933:GLY:HA2	9:M:9651:HOH:O	2.17	0.43
3:N:216:VAL:O	3:N:217:LYS:O	2.36	0.43
3:N:440:VAL:HG12	3:N:441:ARG:N	2.34	0.43
3:N:519:VAL:HG13	3:N:544:TYR:CE1	2.53	0.43
3:N:637:LEU:HD12	3:N:641:GLN:OE1	2.18	0.43
3:N:907:GLU:OE1	3:N:909:ASN:HB2	2.18	0.43
3:N:911:LEU:O	3:N:915:VAL:HG23	2.18	0.43
5:P:163:LEU:HB3	5:P:174:LEU:HD11	2.00	0.43
5:P:214:GLN:HA	5:P:214:GLN:OE1	2.19	0.43
5:P:324:GLU:HB3	9:P:6625:HOH:O	2.19	0.43
1:A:93:SER:HB2	9:A:9647:HOH:O	2.19	0.43
1:B:102:LYS:HZ1	1:B:137:ARG:NH2	2.17	0.43
1:B:111:ALA:HB3	1:B:124:ASN:O	2.19	0.43
2:C:121:MET:HA	2:C:127:PHE:CD2	2.54	0.43
2:C:193:LEU:HD11	9:C:9698:HOH:O	2.18	0.43
2:C:199:VAL:HG13	2:C:235:LEU:HD21	1.99	0.43
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.34	0.43
2:C:139:GLN:HA	2:C:411:SER:O	2.18	0.43
2:C:52:PHE:O	2:C:54:ILE:N	2.52	0.43
2:C:546:LEU:HD21	2:C:587:VAL:CG2	2.46	0.43
2:C:549:PHE:HB3	2:C:552:HIS:CD2	2.54	0.43
3:D:1209:LEU:HD22	3:D:1211:MET:CG	2.47	0.43
3:D:1472:ILE:HG22	3:D:1474:ALA:O	2.18	0.43
3:D:441:ARG:O	3:D:443:VAL:HG23	2.19	0.43
3:D:473:LEU:HD21	3:D:495:ARG:NH2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:58:CYS:SG	3:D:60:CYS:N	2.92	0.43
3:D:420:VAL:HA	5:F:164:LYS:HZ1	1.83	0.43
5:F:358:LEU:HD23	9:F:9758:HOH:O	2.19	0.43
2:M:242:LEU:HB3	9:M:2128:HOH:O	2.18	0.43
2:M:29:ALA:HB3	2:M:30:LEU:HD12	2.00	0.43
2:M:309:TYR:HD2	9:M:9616:HOH:O	2.02	0.43
2:M:640:ARG:HG2	2:M:640:ARG:HH11	1.84	0.43
2:M:778:PHE:HE1	9:P:3891:HOH:O	2.02	0.43
2:M:877:PRO:HB3	3:N:1020:LEU:CD1	2.49	0.43
3:N:1293:PHE:CE2	3:N:1302:GLU:HB2	2.54	0.43
3:N:1336:LEU:CD1	3:N:1341:PRO:HG3	2.48	0.43
3:N:1397:LYS:O	3:N:1400:VAL:HB	2.18	0.43
3:N:1412:LYS:C	3:N:1414:PRO:HD3	2.38	0.43
2:M:1118:LYS:HB3	3:N:23:TYR:CE1	2.54	0.43
3:N:552:ASN:HA	3:N:555:LYS:HE3	2.01	0.43
2:M:1007:ALA:HB1	3:N:652:LEU:HD13	2.01	0.43
3:N:682:ASP:HB2	9:N:9692:HOH:O	2.18	0.43
3:N:699:VAL:HG12	3:N:717:GLN:CA	2.46	0.43
3:N:699:VAL:H	3:N:756:GLN:HE21	1.62	0.43
3:N:822:ALA:HB2	9:N:2411:HOH:O	2.18	0.43
3:N:827:ILE:HG23	3:N:837:GLY:HA2	2.01	0.43
3:N:950:GLY:O	3:N:951:ILE:C	2.56	0.43
4:O:72:ARG:HA	9:O:5993:HOH:O	2.18	0.43
5:P:126:LEU:O	5:P:130:VAL:HG23	2.19	0.43
5:P:350:LEU:HA	5:P:422:LEU:CD1	2.49	0.43
1:B:117:VAL:HG13	9:B:9600:HOH:O	2.18	0.43
2:C:102:HIS:HB2	2:C:106:GLY:O	2.19	0.43
2:C:94:LEU:HB3	2:C:118:ILE:HD11	2.01	0.43
2:C:474:VAL:O	2:C:474:VAL:HG22	2.19	0.43
2:C:724:ARG:CG	2:C:740:GLU:HA	2.49	0.43
3:D:1462:LEU:CD2	3:D:1473:PRO:HD2	2.45	0.43
1:K:26:GLU:HG3	1:K:184:THR:HG21	2.01	0.43
1:K:44:LEU:O	1:K:174:VAL:HG21	2.18	0.43
1:L:169:ALA:HB1	1:L:171:PHE:CD2	2.53	0.43
2:M:1092:LEU:HD22	2:M:1099:VAL:CG2	2.49	0.43
2:M:139:GLN:HE21	2:M:334:ARG:NH1	2.11	0.43
2:M:211:LEU:CD1	2:M:308:ARG:HG3	2.49	0.43
2:M:310:LEU:O	2:M:314:THR:HG23	2.19	0.43
2:M:704:HIS:C	2:M:705:ILE:HG13	2.38	0.43
2:M:807:ARG:HH11	2:M:807:ARG:HB2	1.83	0.43
2:M:549:PHE:CZ	2:M:886:LEU:HD22	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:948:GLU:HG2	2:M:953:VAL:CG2	2.47	0.43
3:N:1120:VAL:HA	3:N:1121:PRO:HD3	1.82	0.43
3:N:1136:LYS:HE3	3:N:1139:ASP:OD2	2.19	0.43
3:N:1274:ILE:HG12	3:N:1334:GLN:CD	2.38	0.43
3:N:1353:GLN:HG2	3:N:1368:ILE:HD12	2.00	0.43
3:N:1390:LEU:HD11	9:N:9817:HOH:O	2.18	0.43
3:N:450:TYR:HB3	9:N:2011:HOH:O	2.19	0.43
3:N:575:GLN:O	3:N:576:GLU:C	2.57	0.43
3:N:630:VAL:HG12	3:N:631:ILE:N	2.33	0.43
3:N:703:ASN:HD22	3:N:713:ILE:HG13	1.84	0.43
3:N:833:GLU:HB2	9:N:2032:HOH:O	2.19	0.43
3:N:863:VAL:HG21	9:N:2211:HOH:O	2.18	0.43
5:P:134:LYS:HD3	5:P:134:LYS:HA	1.87	0.43
5:P:337:HIS:H	5:P:337:HIS:HD2	1.66	0.43
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.40	0.42
2:C:333:ILE:N	2:C:333:ILE:HD12	2.34	0.42
2:C:461:VAL:HB	9:C:9892:HOH:O	2.18	0.42
2:C:501:THR:HG22	2:C:513:VAL:HG22	2.01	0.42
2:C:897:LEU:CD1	2:C:921:ALA:HA	2.48	0.42
2:C:927:GLY:HA2	2:C:930:LYS:HE3	1.99	0.42
3:D:107:ASP:O	3:D:108:VAL:C	2.56	0.42
3:D:1123:PHE:HB2	9:D:2629:HOH:O	2.18	0.42
3:D:1152:GLU:HG3	3:D:1159:ARG:HH12	1.84	0.42
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.49	0.42
3:D:1406:ARG:HG3	3:D:1412:LYS:HG3	2.01	0.42
3:D:1429:LEU:HG	3:D:1441:GLN:OE1	2.18	0.42
3:D:1431:THR:HG21	9:D:9674:HOH:O	2.18	0.42
3:D:170:PRO:HA	9:D:2060:HOH:O	2.19	0.42
3:D:62:LYS:HE2	3:D:75:ARG:HH12	1.84	0.42
3:D:770:LEU:HD23	3:D:777:PRO:HA	2.00	0.42
3:D:916:TYR:CE2	3:D:920:LEU:HD13	2.52	0.42
5:F:204:GLY:HA2	9:F:9554:HOH:O	2.19	0.42
3:D:675:ARG:HH22	5:F:420:ASP:HA	1.84	0.42
1:L:41:ARG:HE	1:L:45:LEU:HD11	1.84	0.42
2:M:1005:MET:HE2	3:N:648:MET:HB2	2.01	0.42
2:M:164:PRO:HD2	2:M:170:PRO:O	2.19	0.42
2:M:253:ALA:O	2:M:256:TYR:HB2	2.19	0.42
2:M:486:MET:CE	2:M:491:GLU:HA	2.49	0.42
2:M:624:PRO:HB3	9:M:9892:HOH:O	2.19	0.42
2:M:557:ARG:HH12	2:M:879:ARG:NH1	2.17	0.42
2:M:95:TYR:N	2:M:95:TYR:CD1	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:565:GLN:HG2	2:M:995:MET:CE	2.49	0.42
3:N:100:ALA:HB2	9:N:9680:HOH:O	2.19	0.42
3:N:1482:ARG:HB2	3:N:1483:PHE:CE1	2.53	0.42
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.63	0.42
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.87	0.42
5:P:292:ALA:HB2	9:P:3676:HOH:O	2.18	0.42
1:B:165:ILE:O	1:B:165:ILE:HG13	2.19	0.42
1:B:79:ILE:HG13	1:B:80:LEU:N	2.33	0.42
2:C:1085:PHE:CE1	2:C:1111:ILE:HG21	2.54	0.42
2:C:48:PHE:HA	2:C:348:LEU:HD22	2.01	0.42
2:C:395:LYS:H	2:C:632:ASN:ND2	2.17	0.42
2:C:674:VAL:HB	2:C:869:VAL:CG1	2.49	0.42
2:C:689:VAL:O	2:C:869:VAL:HG23	2.19	0.42
2:C:813:VAL:HG13	9:C:9710:HOH:O	2.19	0.42
2:C:876:VAL:HB	3:D:949:ILE:HG13	2.01	0.42
2:C:890:LEU:HD21	2:C:901:TYR:CD1	2.53	0.42
2:C:89:THR:O	2:C:89:THR:HG23	2.19	0.42
2:C:95:TYR:CD1	2:C:95:TYR:N	2.87	0.42
3:D:1378:TYR:CD1	3:D:1378:TYR:N	2.87	0.42
3:D:1381:VAL:HG11	9:D:2302:HOH:O	2.19	0.42
3:D:173:PRO:HB3	9:D:2093:HOH:O	2.19	0.42
3:D:704:ARG:HH11	3:D:738:ALA:HB2	1.83	0.42
2:C:1045:ALA:HB2	3:D:763:MET:SD	2.59	0.42
3:D:953:ASP:O	3:D:955:VAL:HG23	2.18	0.42
1:K:115:LEU:HB3	9:K:4284:HOH:O	2.19	0.42
1:L:44:LEU:O	1:L:174:VAL:HG21	2.19	0.42
1:L:23:PHE:O	1:L:196:THR:HA	2.19	0.42
2:M:165:LEU:HA	2:M:166:PRO:O	2.20	0.42
2:M:165:LEU:HD12	2:M:165:LEU:HA	1.89	0.42
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.99	0.42
3:N:1133:ARG:HB2	9:N:2201:HOH:O	2.19	0.42
3:N:176:ASP:HB3	9:N:9934:HOH:O	2.18	0.42
3:N:191:LEU:HB2	3:N:211:VAL:CG2	2.49	0.42
3:N:46:ASP:HB3	3:N:49:ILE:HD12	2.01	0.42
3:N:474:GLU:HG3	3:N:496:LEU:HD11	2.00	0.42
2:M:1009:SER:OG	3:N:655:PRO:HD3	2.19	0.42
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.54	0.42
5:P:191:ASN:HA	9:P:3565:HOH:O	2.18	0.42
5:P:267:THR:O	5:P:271:LEU:HD12	2.19	0.42
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.48	0.42
5:P:402:ASN:O	5:P:406:ARG:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:132:LEU:HD13	9:A:9621:HOH:O	2.18	0.42
1:A:83:LYS:HE2	1:A:167:VAL:HG12	2.00	0.42
2:C:1060:ILE:HG23	2:C:1061:GLU:HG3	2.01	0.42
2:C:1092:LEU:HD22	2:C:1099:VAL:CG2	2.50	0.42
2:C:196:LEU:HB2	9:C:2392:HOH:O	2.19	0.42
2:C:322:VAL:HG13	9:C:2040:HOH:O	2.20	0.42
2:C:334:ARG:O	2:C:339:LEU:HD11	2.19	0.42
2:C:340:MET:HE3	2:C:341:THR:N	2.34	0.42
2:C:405:ARG:HA	2:C:408:ARG:CG	2.49	0.42
2:C:41:ASN:HA	2:C:45:GLN:OE1	2.19	0.42
2:C:51:THR:HB	2:C:348:LEU:HD23	2.01	0.42
2:C:571:LEU:HD22	2:C:571:LEU:H	1.84	0.42
3:D:1008:PHE:HB3	9:D:9863:HOH:O	2.20	0.42
3:D:1243:THR:HB	3:D:1253:THR:HG22	2.00	0.42
3:D:174:GLY:HA3	9:D:9618:HOH:O	2.19	0.42
3:D:452:ILE:CG2	9:D:9938:HOH:O	2.66	0.42
3:D:555:LYS:HD3	9:D:2656:HOH:O	2.19	0.42
3:D:574:LEU:O	3:D:578:VAL:HG23	2.18	0.42
4:E:37:ASN:HD22	4:E:89:MET:HE3	1.84	0.42
5:F:139:ALA:HB1	5:F:152:ASP:HB3	2.02	0.42
3:D:553:ARG:HH22	5:F:211:ASP:CG	2.23	0.42
2:M:101:ILE:HG22	2:M:102:HIS:H	1.84	0.42
2:M:154:ARG:HE	2:M:154:ARG:HB3	1.58	0.42
2:M:191:PHE:CD2	2:M:195:LEU:HD23	2.54	0.42
2:M:142:ARG:HH12	2:M:325:ILE:HG12	1.83	0.42
2:M:439:CYS:HB2	2:M:541:SER:HB2	2.00	0.42
2:M:508:ILE:HG22	9:M:9646:HOH:O	2.18	0.42
2:M:724:ARG:HB2	9:M:9783:HOH:O	2.20	0.42
2:M:816:LYS:HB2	2:M:819:VAL:CG2	2.48	0.42
3:N:1018:ASN:HB3	3:N:1021:TYR:CB	2.48	0.42
3:N:1020:LEU:HA	3:N:1023:MET:HE2	2.02	0.42
3:N:1033:GLN:NE2	3:N:1036:ARG:HD3	2.32	0.42
3:N:1390:LEU:HD11	9:N:2607:HOH:O	2.19	0.42
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.20	0.42
3:N:1491:THR:HG23	9:O:3910:HOH:O	2.19	0.42
3:N:417:PRO:O	5:P:168:LYS:HE3	2.20	0.42
3:N:567:ILE:HG13	3:N:567:ILE:H	1.58	0.42
2:M:1044:GLY:N	3:N:762:GLN:OE1	2.52	0.42
3:N:824:ASN:HA	3:N:824:ASN:HD22	1.59	0.42
3:N:90:MET:HE3	3:N:518:PRO:HB3	2.01	0.42
1:A:143:ARG:HG2	9:A:9755:HOH:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:5:LYS:HE3	9:B:9561:HOH:O	2.18	0.42
2:C:1038:TRP:HB3	3:D:1223:ILE:HG21	2.02	0.42
2:C:226:VAL:HG12	9:C:9620:HOH:O	2.19	0.42
2:C:367:LEU:HB3	2:C:371:LYS:HG2	2.01	0.42
2:C:626:ARG:CB	2:C:639:GLN:HE21	2.32	0.42
2:C:578:VAL:HG13	2:C:671:ASN:OD1	2.20	0.42
2:C:836:GLY:HA2	3:D:725:SER:OG	2.19	0.42
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.33	0.42
3:D:455:ARG:HG3	9:D:9918:HOH:O	2.18	0.42
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.02	0.42
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.20	0.42
3:D:864:VAL:HA	9:D:9946:HOH:O	2.19	0.42
2:C:1083:GLU:CD	3:D:88:TYR:HH	2.23	0.42
9:D:9642:HOH:O	4:E:48:MET:HE2	2.18	0.42
4:E:54:LEU:HB3	9:E:9537:HOH:O	2.19	0.42
5:F:128:ARG:HA	9:F:9837:HOH:O	2.19	0.42
5:F:421:PHE:C	5:F:423:ASP:N	2.71	0.42
1:K:209:GLU:O	1:K:213:GLN:HG3	2.20	0.42
1:L:112:ARG:HH11	1:L:112:ARG:HB3	1.85	0.42
2:M:1000:MET:SD	2:M:1001:VAL:N	2.87	0.42
2:M:1008:ARG:HH21	2:M:1028:GLY:HA2	1.83	0.42
2:M:274:ARG:HB2	2:M:285:LEU:CD1	2.49	0.42
2:M:330:ASN:O	2:M:331:ARG:C	2.57	0.42
2:M:350:ARG:HB3	9:M:9765:HOH:O	2.19	0.42
2:M:958:THR:HG23	2:M:961:GLU:CG	2.49	0.42
3:N:1409:ALA:HB1	9:N:2070:HOH:O	2.19	0.42
3:N:416:ALA:HA	3:N:442:ASN:HD22	1.83	0.42
3:N:18:ILE:HD12	3:N:518:PRO:CG	2.49	0.42
3:N:660:LYS:HA	3:N:663:GLU:OE2	2.19	0.42
3:N:789:LEU:HD13	9:N:9875:HOH:O	2.19	0.42
3:N:794:GLN:HB3	3:N:794:GLN:HE21	1.66	0.42
3:N:80:VAL:HG13	9:N:9871:HOH:O	2.19	0.42
2:C:165:LEU:HA	2:C:166:PRO:O	2.20	0.42
2:C:313:LEU:HD13	2:C:321:GLU:HB2	2.00	0.42
2:C:925:TYR:C	2:C:925:TYR:CD1	2.93	0.42
1:A:30:ARG:HD2	2:C:938:LYS:NZ	2.34	0.42
3:D:1123:PHE:HD1	3:D:1133:ARG:O	2.02	0.42
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.34	0.42
3:D:10:ILE:CD1	3:D:1434:TRP:NE1	2.83	0.42
3:D:674:ARG:HG2	3:D:674:ARG:HH11	1.85	0.42
3:D:796:ARG:O	3:D:828:LYS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:827:ILE:HG23	3:D:837:GLY:HA2	2.02	0.42
3:D:853:VAL:HA	3:D:858:VAL:O	2.20	0.42
3:D:844:ALA:HA	3:D:867:ARG:NH1	2.35	0.42
5:F:202:TYR:OH	5:F:244:ARG:HD2	2.19	0.42
5:F:319:THR:HG23	9:F:9846:HOH:O	2.19	0.42
1:K:143:ARG:HG3	1:K:144:VAL:N	2.34	0.42
1:L:12:THR:OG1	1:L:24:VAL:HB	2.19	0.42
1:L:143:ARG:HG3	9:L:4737:HOH:O	2.19	0.42
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.18	0.42
2:M:1068:GLU:OE1	5:P:345:ALA:HA	2.19	0.42
2:M:409:ARG:HA	2:M:454:SER:CA	2.35	0.42
2:M:405:ARG:HD3	2:M:543:ASN:CG	2.39	0.42
2:M:589:ARG:HD2	9:M:9978:HOH:O	2.19	0.42
2:M:4:LYS:HE3	2:M:6:PHE:HE2	1.84	0.42
2:M:821:GLU:HG3	9:M:2312:HOH:O	2.20	0.42
2:M:756:VAL:HG21	2:M:823:VAL:CG1	2.49	0.42
2:M:969:GLN:HB3	2:M:969:GLN:HE21	1.66	0.42
3:N:1123:PHE:HA	3:N:1135:ARG:N	2.35	0.42
3:N:171:LEU:HB2	3:N:390:PRO:CA	2.49	0.42
3:N:432:TYR:HA	3:N:448:GLU:O	2.18	0.42
3:N:591:VAL:HG12	3:N:592:THR:O	2.19	0.42
5:P:277:GLN:O	5:P:280:GLN:HB3	2.18	0.42
9:M:9906:HOH:O	5:P:354:LEU:HD13	2.20	0.42
5:P:93:LEU:HB2	9:P:4152:HOH:O	2.18	0.42
2:C:390:GLN:O	7:C:8001:RBT:H142	2.20	0.42
2:C:397:GLU:HB3	2:C:631:SER:HB2	2.02	0.42
2:C:519:GLY:O	3:D:1053:PHE:HE2	2.02	0.42
2:C:575:GLN:C	2:C:667:ALA:HB1	2.39	0.42
2:C:721:ARG:HH11	2:C:721:ARG:HG3	1.85	0.42
2:C:831:ARG:HG2	2:C:831:ARG:NH1	2.32	0.42
2:C:565:GLN:HG2	2:C:995:MET:CE	2.50	0.42
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.84	0.42
3:D:1286:THR:HB	9:D:2814:HOH:O	2.19	0.42
3:D:1434:TRP:CZ3	3:D:1455:LYS:HB3	2.54	0.42
3:D:154:THR:HG22	3:D:157:GLU:OE2	2.20	0.42
3:D:528:VAL:HG13	9:D:2844:HOH:O	2.18	0.42
3:D:894:LYS:HD2	9:D:2034:HOH:O	2.20	0.42
4:E:49:GLN:HA	4:E:51:LEU:O	2.20	0.42
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.78	0.42
5:F:328:PHE:HD2	5:F:328:PHE:HA	1.72	0.42
2:M:139:GLN:CG	2:M:140:ILE:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:195:LEU:HD12	9:M:2147:HOH:O	2.18	0.42
2:M:19:THR:HG22	2:M:19:THR:O	2.19	0.42
2:M:325:ILE:HG22	2:M:331:ARG:HG3	2.02	0.42
2:M:432:ARG:CD	2:M:519:GLY:HA3	2.47	0.42
2:M:722:ILE:HD11	2:M:756:VAL:CG1	2.50	0.42
3:N:1209:LEU:HG	3:N:1219:GLU:OE2	2.19	0.42
3:N:1435:LEU:HB2	3:N:1457:ASP:OD2	2.19	0.42
3:N:404:GLU:HB3	3:N:414:ARG:CD	2.49	0.42
3:N:412:GLY:O	3:N:421:LEU:HB3	2.19	0.42
3:N:421:LEU:O	3:N:421:LEU:HD23	2.20	0.42
3:N:543:LEU:HD21	3:N:600:LEU:HD13	2.01	0.42
3:N:639:LEU:N	3:N:729:HIS:CD2	2.87	0.42
2:M:1083:GLU:OE2	3:N:87:ARG:NH1	2.52	0.42
1:B:25:LEU:HD23	1:B:28:LEU:HD21	2.01	0.42
1:B:61:VAL:HG11	1:B:75:VAL:HG21	2.01	0.42
1:B:83:LYS:HE3	1:B:167:VAL:CG1	2.50	0.42
2:C:129:ILE:HB	2:C:134:ARG:HG3	2.02	0.42
2:C:162:ILE:HB	2:C:172:ILE:HD13	2.01	0.42
2:C:313:LEU:CB	2:C:321:GLU:HG3	2.50	0.42
2:C:328:LEU:HB2	2:C:488:ALA:CB	2.46	0.42
2:C:328:LEU:HB2	2:C:433:THR:HG21	2.02	0.42
2:C:61:LYS:HD3	9:C:2241:HOH:O	2.19	0.42
2:C:704:HIS:CD2	2:C:705:ILE:H	2.36	0.42
2:C:724:ARG:HG3	2:C:740:GLU:HA	2.00	0.42
2:C:876:VAL:O	2:C:879:ARG:O	2.38	0.42
2:C:554:ASP:HB2	2:C:880:MET:O	2.20	0.42
2:C:881:ASN:HD22	2:C:881:ASN:N	2.12	0.42
3:D:1057:VAL:HA	3:D:1069:GLU:HG2	2.02	0.42
3:D:16:GLU:HA	9:D:9854:HOH:O	2.18	0.42
3:D:435:VAL:HG22	3:D:446:VAL:HG13	2.01	0.42
3:D:724:GLN:HG3	3:D:725:SER:N	2.35	0.42
4:E:29:GLN:HB2	4:E:33:HIS:CD2	2.55	0.42
5:F:153:PRO:CG	5:F:154:LYS:H	2.33	0.42
2:M:318:PRO:HB3	9:M:2297:HOH:O	2.19	0.42
2:M:331:ARG:HD2	9:M:2020:HOH:O	2.19	0.42
2:M:362:GLY:HA3	2:M:367:LEU:CD2	2.44	0.42
2:M:100:LEU:CD2	2:M:368:THR:HA	2.46	0.42
2:M:380:ALA:CA	2:M:383:ARG:HG2	2.50	0.42
2:M:414:GLY:C	2:M:416:GLY:H	2.23	0.42
2:M:772:ARG:NH1	2:M:772:ARG:HB2	2.34	0.42
3:N:1262:LEU:HD11	3:N:1351:GLU:CG	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:152:LEU:N	3:N:152:LEU:CD2	2.82	0.42
3:N:507:ASN:HA	9:N:9633:HOH:O	2.19	0.42
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.49	0.42
3:N:574:LEU:O	3:N:577:ALA:HB3	2.19	0.42
3:N:625:TYR:N	3:N:625:TYR:CD1	2.87	0.42
3:N:633:VAL:C	3:N:635:PRO:HD3	2.40	0.42
4:O:18:ARG:O	4:O:22:VAL:HG23	2.19	0.42
5:P:132:ARG:HD3	5:P:181:GLU:OE1	2.20	0.42
3:N:573:MET:CE	5:P:210:LEU:HD22	2.50	0.42
5:P:77:THR:O	5:P:81:VAL:HG23	2.19	0.42
1:B:205:VAL:HG12	9:B:9565:HOH:O	2.19	0.42
2:C:176:VAL:O	2:C:178:PRO:HD3	2.19	0.42
2:C:188:LYS:HG3	9:C:2493:HOH:O	2.19	0.42
2:C:25:SER:OG	2:C:337:GLY:N	2.52	0.42
2:C:265:ARG:HB2	9:C:9833:HOH:O	2.20	0.42
2:C:48:PHE:O	2:C:52:PHE:HB2	2.20	0.42
2:C:674:VAL:O	2:C:989:VAL:HA	2.20	0.42
2:C:686:ASP:OD2	2:C:879:ARG:NH2	2.53	0.42
2:C:713:ARG:HG3	2:C:713:ARG:NH1	2.35	0.42
2:C:78:PHE:CB	2:C:88:LEU:HD21	2.49	0.42
3:D:953:ASP:OD1	3:D:1019:PRO:HG2	2.20	0.42
3:D:124:GLU:HG2	3:D:128:TYR:CE1	2.55	0.42
3:D:1290:LEU:HD22	3:D:1291:SER:H	1.83	0.42
3:D:1382:THR:CG2	3:D:1418:LYS:HE3	2.49	0.42
3:D:159:ARG:HB2	3:D:159:ARG:NH1	2.35	0.42
3:D:412:GLY:O	3:D:421:LEU:HB3	2.20	0.42
3:D:444:VAL:HG22	3:D:444:VAL:O	2.19	0.42
3:D:448:GLU:HG3	9:D:9766:HOH:O	2.19	0.42
3:D:23:TYR:O	3:D:49:ILE:HG23	2.20	0.42
1:K:9:PRO:HB3	1:K:25:LEU:CG	2.49	0.42
1:L:101:LEU:HD12	1:L:114:PHE:CE1	2.55	0.42
1:L:165:ILE:HA	1:L:166:PRO:HD3	1.94	0.42
2:M:1091:GLU:O	2:M:1094:ALA:HB3	2.19	0.42
2:M:172:ILE:HA	2:M:185:LYS:O	2.19	0.42
2:M:222:MET:H	2:M:222:MET:HG2	1.64	0.42
2:M:27:ARG:HG3	2:M:27:ARG:HH11	1.85	0.42
2:M:321:GLU:CB	9:M:9616:HOH:O	2.68	0.42
2:M:136:ILE:HB	2:M:336:VAL:HG13	2.01	0.42
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.49	0.42
2:M:582:GLY:N	9:M:2487:HOH:O	2.53	0.42
2:M:605:LYS:HD3	2:M:610:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:64:LEU:HD12	9:M:9772:HOH:O	2.19	0.42
2:M:578:VAL:HG13	2:M:671:ASN:OD1	2.20	0.42
2:M:73:LEU:HD22	2:M:118:ILE:HD11	2.01	0.42
2:M:794:PRO:HB2	2:M:1027:PHE:CE2	2.54	0.42
3:N:1378:TYR:CE2	3:N:1394:VAL:HG22	2.54	0.42
3:N:42:ASP:O	3:N:46:ASP:HB2	2.20	0.42
3:N:893:GLU:O	3:N:896:ALA:HB3	2.19	0.42
3:N:948:THR:O	3:N:1019:PRO:HG2	2.19	0.42
5:P:262:VAL:O	5:P:265:VAL:HB	2.20	0.42
5:P:358:LEU:HD11	5:P:370:LYS:CD	2.50	0.42
1:A:98:THR:HG22	1:A:100:LEU:CD1	2.50	0.42
1:B:2:LEU:HA	1:B:6:LEU:HD22	2.01	0.42
2:C:1019:GLN:HB3	2:C:1019:GLN:HE21	1.63	0.42
2:C:1054:THR:HG23	2:C:1059:ASP:HB2	2.00	0.42
2:C:138:SER:HB2	2:C:410:ILE:HG13	2.02	0.42
2:C:274:ARG:HB2	2:C:285:LEU:HD12	2.01	0.42
2:C:29:ALA:HB2	2:C:337:GLY:HA2	2.00	0.42
2:C:390:GLN:NE2	7:C:8001:RBT:H131	2.35	0.42
2:C:584:GLU:H	2:C:584:GLU:CD	2.23	0.42
1:A:72:LYS:O	2:C:608:GLY:CA	2.68	0.42
2:C:707:ARG:NH2	2:C:824:ARG:NH1	2.68	0.42
2:C:760:SER:O	2:C:785:VAL:HG22	2.18	0.42
2:C:924:VAL:HG21	9:C:9996:HOH:O	2.19	0.42
3:D:1211:MET:HE1	3:D:1216:SER:OG	2.20	0.42
3:D:210:ARG:NH1	9:D:9792:HOH:O	2.52	0.42
3:D:214:GLU:OE2	3:D:390:PRO:HB2	2.20	0.42
3:D:646:LYS:HE2	3:D:722:GLU:OE2	2.19	0.42
3:D:795:VAL:HG12	3:D:796:ARG:N	2.34	0.42
3:D:866:VAL:HG12	3:D:867:ARG:N	2.34	0.42
3:D:9:ARG:HG2	3:D:9:ARG:O	2.20	0.42
5:F:163:LEU:HD13	5:F:174:LEU:HD21	2.02	0.42
5:F:282:LEU:HB2	5:F:284:ARG:H	1.85	0.42
5:F:302:LYS:HE3	9:F:9749:HOH:O	2.20	0.42
5:F:366:ALA:HB1	9:F:9610:HOH:O	2.19	0.42
5:F:408:LEU:HD22	9:F:9858:HOH:O	2.19	0.42
1:K:219:ARG:HB2	1:K:219:ARG:HH11	1.84	0.42
1:K:2:LEU:O	1:K:6:LEU:HB3	2.20	0.42
2:M:1115:LEU:HD12	2:M:1115:LEU:H	1.80	0.42
2:M:167:LYS:HD3	2:M:167:LYS:C	2.40	0.42
2:M:174:LEU:HD22	2:M:193:LEU:HG	2.01	0.42
2:M:191:PHE:CE2	2:M:238:LEU:HD21	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:219:GLN:HB3	9:M:2554:HOH:O	2.19	0.42
2:M:479:VAL:HG22	2:M:508:ILE:CD1	2.49	0.42
2:M:699:PHE:HD1	9:M:2289:HOH:O	2.02	0.42
2:M:783:ARG:HG2	2:M:785:VAL:HG12	2.02	0.42
2:M:835:VAL:HA	2:M:849:VAL:HG12	2.02	0.42
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.19	0.42
3:N:1083:ASP:O	3:N:1087:ARG:HD3	2.20	0.42
3:N:23:TYR:HB2	3:N:49:ILE:O	2.19	0.42
3:N:426:LYS:HD2	3:N:428:LYS:HZ1	1.84	0.42
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.50	0.42
3:N:826:PRO:HD2	3:N:829:VAL:HG22	2.01	0.42
3:N:826:PRO:HD3	9:N:2300:HOH:O	2.20	0.42
1:A:195:LEU:HD12	1:A:196:THR:N	2.35	0.42
1:A:70:GLY:O	1:A:132:LEU:HA	2.19	0.42
1:B:103:ALA:HB2	9:B:9543:HOH:O	2.20	0.42
1:B:23:PHE:CE1	1:B:208:LEU:HD22	2.55	0.42
2:C:243:ARG:HD2	9:C:2185:HOH:O	2.19	0.42
2:C:282:GLY:HA2	2:C:308:ARG:NH2	2.35	0.42
2:C:525:SER:OG	2:C:528:GLU:HG3	2.20	0.42
2:C:854:PRO:C	2:C:856:GLU:N	2.72	0.42
2:C:861:LEU:HD23	2:C:862:PRO:N	2.35	0.42
3:D:1063:GLU:HB3	9:D:9565:HOH:O	2.19	0.42
3:D:112:ILE:HB	9:D:2195:HOH:O	2.20	0.42
3:D:1264:GLU:CD	3:D:1425:THR:HG22	2.40	0.42
3:D:208:PRO:HB2	3:D:395:VAL:HG13	2.01	0.42
3:D:455:ARG:HG2	3:D:455:ARG:NH1	2.35	0.42
3:D:517:VAL:HG21	3:D:547:LEU:HD21	2.01	0.42
3:D:519:VAL:HA	3:D:544:TYR:CZ	2.54	0.42
3:D:528:VAL:HG23	3:D:536:ALA:O	2.20	0.42
3:D:679:ARG:HD2	9:D:9589:HOH:O	2.20	0.42
3:D:52:PRO:HG3	3:D:78:VAL:HG13	2.01	0.42
3:D:806:PHE:O	3:D:806:PHE:CD1	2.73	0.42
3:D:817:GLU:HG2	3:D:840:LYS:HZ1	1.85	0.42
3:D:898:GLU:HA	9:D:2157:HOH:O	2.19	0.42
3:D:770:LEU:HG	3:D:919:PHE:CE1	2.55	0.42
4:E:33:HIS:ND1	4:E:33:HIS:N	2.68	0.42
3:D:760:ARG:NH1	4:E:59:ASN:HD21	2.18	0.42
3:D:32:ILE:O	5:F:258:ILE:HD12	2.20	0.42
5:F:287:THR:HG23	5:F:289:GLU:H	1.84	0.42
1:K:128:HIS:HE1	1:K:131:THR:HG23	1.84	0.42
1:L:140:MET:HG2	1:L:142:VAL:HG13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:143:ARG:HD3	9:L:6404:HOH:O	2.19	0.42
2:M:274:ARG:HB2	2:M:285:LEU:HD13	2.02	0.42
2:M:290:LEU:HB3	2:M:302:VAL:HG12	2.00	0.42
2:M:304:LEU:HG	2:M:305:PRO:N	2.35	0.42
2:M:352:ALA:C	2:M:355:VAL:HG12	2.40	0.42
2:M:435:TYR:N	9:M:9588:HOH:O	2.53	0.42
2:M:617:ASP:OD1	2:M:619:ARG:HB2	2.20	0.42
2:M:783:ARG:C	2:M:785:VAL:H	2.23	0.42
2:M:841:ASN:ND2	2:M:841:ASN:C	2.73	0.42
2:M:688:ILE:HD11	2:M:847:GLY:HA3	2.02	0.42
2:M:916:GLU:O	2:M:919:ALA:HB3	2.20	0.42
3:N:1005:GLN:HG2	9:N:9941:HOH:O	2.20	0.42
3:N:161:LEU:HD13	3:N:452:ILE:HD13	2.02	0.42
3:N:473:LEU:HD23	3:N:499:VAL:HG21	2.01	0.42
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.50	0.42
3:N:719:VAL:HG22	9:N:9830:HOH:O	2.19	0.42
3:N:785:ILE:HG23	3:N:938:GLY:HA3	2.01	0.42
3:N:985:ASP:HB2	9:N:9696:HOH:O	2.20	0.42
1:A:79:ILE:HG13	1:A:80:LEU:N	2.34	0.41
1:B:14:ARG:NH2	1:B:24:VAL:HG21	2.35	0.41
2:C:108:ILE:HD13	2:C:365:ASP:O	2.19	0.41
2:C:260:LEU:HA	2:C:291:ALA:HB2	2.01	0.41
2:C:267:TYR:N	2:C:267:TYR:CD2	2.88	0.41
2:C:310:LEU:HD12	2:C:310:LEU:HA	1.86	0.41
2:C:366:SER:O	2:C:367:LEU:HD23	2.20	0.41
2:C:459:ALA:HB1	2:C:467:ILE:CG2	2.50	0.41
2:C:735:ARG:NH1	2:C:735:ARG:HG2	2.35	0.41
2:C:773:LEU:HD11	9:F:9748:HOH:O	2.19	0.41
2:C:979:THR:HG23	2:C:981:GLU:N	2.17	0.41
3:D:1283:ILE:HB	3:D:1315:ASP:OD2	2.20	0.41
3:D:131:LYS:HE2	3:D:568:ARG:HB2	2.01	0.41
3:D:1303:TYR:HD1	3:D:1325:LEU:HD23	1.85	0.41
3:D:897:TRP:CZ2	3:D:902:LEU:HD21	2.55	0.41
4:E:91:ARG:NE	9:E:9529:HOH:O	2.53	0.41
5:F:292:ALA:HB1	5:F:299:TRP:O	2.20	0.41
5:F:348:SER:OG	5:F:349:LEU:N	2.53	0.41
5:F:416:ARG:HD2	5:F:419:ARG:HB3	2.02	0.41
1:L:128:HIS:HB3	9:L:6378:HOH:O	2.20	0.41
1:L:30:ARG:NH1	1:L:30:ARG:HG2	2.34	0.41
2:M:191:PHE:CD2	2:M:195:LEU:HB3	2.55	0.41
2:M:194:VAL:HG21	2:M:221:LEU:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:244:PRO:HD2	2:M:245:GLY:N	2.29	0.41
2:M:285:LEU:O	2:M:285:LEU:HD23	2.20	0.41
2:M:264:PRO:HB3	2:M:289:THR:CB	2.50	0.41
2:M:575:GLN:C	2:M:667:ALA:HB1	2.40	0.41
2:M:724:ARG:O	2:M:734:LEU:HD21	2.20	0.41
2:M:826:TYR:N	2:M:826:TYR:CD1	2.88	0.41
2:M:939:ARG:HB3	2:M:982:PRO:HG3	2.02	0.41
3:N:1008:PHE:O	3:N:1012:GLU:HB2	2.20	0.41
3:N:1185:GLU:HB2	9:N:9824:HOH:O	2.20	0.41
3:N:1478:SER:HG	3:N:1480:PHE:HB3	1.84	0.41
3:N:782:SER:O	3:N:786:ILE:HG13	2.20	0.41
3:N:894:LYS:O	3:N:898:GLU:HG3	2.20	0.41
5:P:194:LEU:O	5:P:198:ILE:HG13	2.20	0.41
1:A:221:HIS:HE1	9:B:9596:HOH:O	2.03	0.41
2:C:196:LEU:HD22	2:C:303:PHE:CZ	2.56	0.41
2:C:22:GLN:HE21	2:C:22:GLN:HB3	1.62	0.41
2:C:415:PRO:C	2:C:417:GLY:H	2.24	0.41
2:C:598:GLU:HB2	2:C:615:TYR:OH	2.20	0.41
2:C:668:LEU:HD12	2:C:668:LEU:H	1.85	0.41
2:C:684:PHE:HD2	3:D:740:PHE:HE1	1.67	0.41
2:C:707:ARG:N	9:C:2428:HOH:O	2.53	0.41
1:A:46:SER:HB3	2:C:856:GLU:HG2	2.00	0.41
2:C:8:ARG:NE	2:C:8:ARG:HA	2.34	0.41
3:D:1089:ALA:HA	9:D:2262:HOH:O	2.20	0.41
3:D:1168:MET:O	3:D:1168:MET:HE3	2.20	0.41
3:D:1462:LEU:HD13	3:D:1472:ILE:HG21	2.01	0.41
3:D:172:PRO:HB3	3:D:178:LEU:HB3	2.02	0.41
3:D:186:VAL:HG13	3:D:187:LYS:N	2.34	0.41
3:D:584:ASN:HA	9:D:2212:HOH:O	2.19	0.41
3:D:814:ALA:HB1	3:D:818:ARG:NH2	2.34	0.41
3:D:916:TYR:C	3:D:916:TYR:CD2	2.94	0.41
2:C:988:VAL:HG13	3:D:948:THR:OG1	2.21	0.41
5:F:110:MET:HB2	9:F:9606:HOH:O	2.20	0.41
1:K:20:TYR:HE2	1:K:198:ARG:HB3	1.85	0.41
1:K:89:PHE:HB2	1:K:94:LEU:HD13	2.01	0.41
2:M:103:LYS:HB2	9:M:9621:HOH:O	2.20	0.41
2:M:1059:ASP:OD2	2:M:1062:GLY:HA3	2.20	0.41
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.91	0.41
2:M:15:LEU:CD2	2:M:583:LEU:HD21	2.50	0.41
3:N:1032:PRO:HD3	9:N:9814:HOH:O	2.20	0.41
3:N:133:ILE:HD13	3:N:456:MET:SD	2.59	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1488:ASP:OD1	3:N:1488:ASP:N	2.52	0.41
3:N:123:LEU:HG	3:N:152:LEU:CD1	2.50	0.41
3:N:208:PRO:CB	3:N:395:VAL:HG13	2.47	0.41
3:N:30:GLU:HB3	3:N:40:GLU:CG	2.50	0.41
3:N:135:LEU:HA	3:N:453:ASP:O	2.20	0.41
3:N:461:ILE:HD13	3:N:461:ILE:N	2.34	0.41
3:N:581:LEU:HG	3:N:582:LEU:N	2.34	0.41
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.55	0.41
3:N:785:ILE:HD12	3:N:785:ILE:N	2.35	0.41
3:N:806:PHE:O	3:N:807:ALA:C	2.58	0.41
3:N:880:ILE:O	3:N:883:ALA:HB3	2.20	0.41
4:O:16:LYS:HA	9:O:3678:HOH:O	2.20	0.41
1:B:102:LYS:HE3	1:B:139:ASN:HB2	2.01	0.41
2:C:1072:LYS:HB3	9:C:9787:HOH:O	2.20	0.41
2:C:334:ARG:HA	2:C:338:GLU:OE2	2.20	0.41
2:C:395:LYS:H	2:C:632:ASN:HD22	1.69	0.41
2:C:436:GLY:O	2:C:459:ALA:HB2	2.21	0.41
3:D:1048:PRO:HD2	9:D:2426:HOH:O	2.19	0.41
3:D:1167:SER:O	3:D:1171:VAL:HG23	2.19	0.41
3:D:1243:THR:CB	3:D:1253:THR:HB	2.50	0.41
3:D:1282:ARG:HA	3:D:1315:ASP:OD1	2.20	0.41
3:D:134:VAL:O	3:D:134:VAL:HG23	2.20	0.41
3:D:1351:GLU:HA	3:D:1354:LYS:HG2	2.02	0.41
3:D:1468:LEU:HB3	3:D:1470:ARG:HB2	2.02	0.41
3:D:214:GLU:CD	3:D:390:PRO:HB2	2.40	0.41
3:D:179:VAL:HG22	3:D:389:GLU:CD	2.41	0.41
3:D:41:ARG:CD	3:D:42:ASP:H	2.26	0.41
3:D:458:ALA:HB1	9:D:2526:HOH:O	2.20	0.41
3:D:572:ARG:NH1	5:F:80:PRO:HD3	2.35	0.41
2:C:1087:VAL:HG11	3:D:613:ARG:HH21	1.84	0.41
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.45	0.41
3:D:789:LEU:HD22	3:D:882:PHE:CE1	2.56	0.41
5:F:113:ILE:HG12	9:F:9837:HOH:O	2.20	0.41
5:F:91:VAL:HG12	9:F:9932:HOH:O	2.19	0.41
1:K:100:LEU:CD2	1:K:141:GLU:HG2	2.50	0.41
1:K:154:GLU:H	1:K:154:GLU:CD	2.24	0.41
1:K:178:ALA:HB3	1:K:198:ARG:HD3	2.03	0.41
1:L:95:GLN:N	1:L:95:GLN:HE21	2.14	0.41
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.83	0.41
2:M:233:GLU:HB2	9:M:2176:HOH:O	2.20	0.41
2:M:459:ALA:HB1	2:M:467:ILE:CG2	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:524:VAL:HG22	2:M:528:GLU:HB2	2.03	0.41
2:M:405:ARG:HD3	2:M:543:ASN:CB	2.50	0.41
2:M:73:LEU:O	2:M:73:LEU:HD12	2.20	0.41
2:M:816:LYS:O	2:M:819:VAL:HB	2.20	0.41
3:N:1031:ASN:HA	9:N:9814:HOH:O	2.20	0.41
3:N:1031:ASN:HB3	3:N:1034:GLN:HB2	2.00	0.41
3:N:1122:LEU:O	3:N:1135:ARG:N	2.49	0.41
3:N:1399:ASP:O	3:N:1403:LEU:HB2	2.21	0.41
3:N:998:GLU:O	3:N:1002:LYS:HG3	2.19	0.41
1:A:47:SER:HG	1:B:32:PHE:HZ	1.66	0.41
1:B:178:ALA:C	1:B:197:LEU:HD12	2.40	0.41
2:C:172:ILE:HA	2:C:185:LYS:O	2.19	0.41
2:C:18:LEU:HD21	2:C:542:VAL:HG11	2.02	0.41
2:C:571:LEU:N	2:C:571:LEU:HD22	2.35	0.41
2:C:623:TYR:N	9:C:9615:HOH:O	2.53	0.41
2:C:780:GLU:HG3	2:C:781:LYS:H	1.85	0.41
2:C:97:ARG:HB3	9:C:9753:HOH:O	2.21	0.41
3:D:1014:ASN:O	3:D:1016:PRO:HD3	2.19	0.41
3:D:1089:ALA:HB2	9:D:9966:HOH:O	2.19	0.41
3:D:1253:THR:HG23	9:D:9622:HOH:O	2.18	0.41
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.86	0.41
3:D:36:THR:HB	3:D:38:LYS:CD	2.51	0.41
3:D:209:ARG:HB2	3:D:395:VAL:O	2.20	0.41
3:D:400:VAL:HG23	9:D:9594:HOH:O	2.21	0.41
3:D:553:ARG:NE	9:F:9685:HOH:O	2.53	0.41
3:D:661:MET:CE	3:D:677:LEU:HD11	2.51	0.41
3:D:815:ALA:HA	9:D:2515:HOH:O	2.20	0.41
1:K:181:VAL:HG12	2:M:938:LYS:NZ	2.35	0.41
1:K:71:VAL:HG21	1:K:138:LEU:HD23	2.02	0.41
1:L:151:VAL:HB	1:L:169:ALA:HB3	2.01	0.41
2:M:1002:GLU:HG3	2:M:1002:GLU:H	1.43	0.41
2:M:66:LEU:CD1	2:M:100:LEU:HB3	2.51	0.41
2:M:288:ARG:HB2	9:M:9837:HOH:O	2.20	0.41
2:M:460:ARG:HB3	2:M:460:ARG:HH11	1.85	0.41
2:M:577:PRO:HD2	2:M:580:MET:HG2	2.02	0.41
2:M:68:PHE:HB3	9:M:2228:HOH:O	2.19	0.41
2:M:862:PRO:HG3	2:M:975:TYR:HE1	1.85	0.41
3:N:1312:LEU:HB3	9:N:2390:HOH:O	2.20	0.41
3:N:1466:VAL:HG23	3:N:1472:ILE:CD1	2.49	0.41
3:N:1106:VAL:CG2	3:N:1474:ALA:HB2	2.49	0.41
3:N:560:GLN:O	5:P:184:ARG:NH2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:629:SER:C	3:N:744:GLN:HG2	2.40	0.41
4:O:45:ARG:H	4:O:47:LYS:NZ	2.18	0.41
1:A:170:VAL:HG11	9:C:9860:HOH:O	2.21	0.41
1:A:79:ILE:HD11	9:A:9704:HOH:O	2.21	0.41
1:B:27:PRO:C	1:B:28:LEU:HD23	2.40	0.41
1:B:51:THR:HA	1:B:145:ASP:O	2.21	0.41
2:C:1029:GLY:O	3:D:622:ARG:NH1	2.54	0.41
2:C:191:PHE:CE2	2:C:196:LEU:HD11	2.55	0.41
2:C:117:HIS:HB2	2:C:379:GLU:OE2	2.20	0.41
2:C:380:ALA:O	2:C:384:GLU:HB2	2.21	0.41
2:C:504:GLU:CD	2:C:509:ALA:HB2	2.41	0.41
2:C:791:ARG:O	2:C:793:PRO:HD3	2.20	0.41
2:C:815:LEU:HD21	2:C:820:ARG:O	2.21	0.41
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.61	0.41
2:C:890:LEU:HD23	2:C:890:LEU:C	2.40	0.41
2:C:900:ARG:NH1	9:C:2088:HOH:O	2.52	0.41
3:D:100:ALA:H	3:D:575:GLN:HE22	1.69	0.41
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.41	0.41
3:D:1090:ASP:O	3:D:1093:TYR:HB3	2.20	0.41
3:D:1135:ARG:HB3	3:D:1140:ILE:HG13	2.03	0.41
3:D:1389:LEU:CG	3:D:1390:LEU:N	2.83	0.41
3:D:432:TYR:HE2	9:D:9631:HOH:O	2.03	0.41
3:D:543:LEU:CD2	3:D:600:LEU:HD12	2.51	0.41
3:D:565:ILE:HB	5:F:84:TYR:HD2	1.85	0.41
3:D:690:ALA:O	3:D:693:GLU:HB3	2.20	0.41
3:D:848:GLU:HA	3:D:851:LEU:CD1	2.50	0.41
3:D:89:ARG:O	3:D:521:PRO:HG3	2.20	0.41
5:F:302:LYS:HG3	5:F:303:ARG:N	2.35	0.41
1:K:11:PHE:CD1	1:L:225:PHE:HA	2.55	0.41
1:L:88:ARG:HB3	1:L:121:GLU:OE1	2.20	0.41
1:L:137:ARG:HH11	1:L:137:ARG:HB3	1.81	0.41
1:L:86:VAL:HG12	1:L:124:ASN:CG	2.40	0.41
2:M:63:GLY:HA3	2:M:103:LYS:HD2	2.02	0.41
2:M:1050:GLN:HA	2:M:1053:LEU:HD12	2.03	0.41
2:M:1095:LEU:O	2:M:1096:ALA:C	2.58	0.41
2:M:157:ARG:HA	2:M:157:ARG:NE	2.36	0.41
2:M:165:LEU:HB2	9:M:9613:HOH:O	2.20	0.41
2:M:231:PRO:HG3	9:M:2224:HOH:O	2.19	0.41
2:M:138:SER:OG	2:M:335:THR:HA	2.19	0.41
2:M:339:LEU:HD13	2:M:391:LEU:HD21	2.03	0.41
2:M:620:LEU:N	2:M:620:LEU:HD13	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:721:ARG:O	2:M:758:ARG:HA	2.21	0.41
2:M:890:LEU:HD21	2:M:901:TYR:HD1	1.85	0.41
3:N:1123:PHE:HA	3:N:1134:LEU:HA	2.03	0.41
3:N:1290:LEU:HA	9:N:2475:HOH:O	2.20	0.41
3:N:129:PHE:O	3:N:572:ARG:HG2	2.21	0.41
3:N:199:LEU:N	9:N:9629:HOH:O	2.53	0.41
3:N:416:ALA:H	3:N:417:PRO:CD	2.33	0.41
3:N:793:THR:O	3:N:879:ARG:NH1	2.50	0.41
5:P:421:PHE:C	5:P:423:ASP:H	2.22	0.41
1:A:211:LEU:O	1:A:214:ALA:HB3	2.21	0.41
1:B:71:VAL:HG22	1:B:132:LEU:CD1	2.51	0.41
2:C:1008:ARG:HB2	2:C:1027:PHE:HB2	2.03	0.41
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.20	0.41
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.55	0.41
2:C:14:PRO:HB3	2:C:586:ARG:NH2	2.34	0.41
2:C:525:SER:O	2:C:529:VAL:HG23	2.19	0.41
2:C:569:VAL:HG11	2:C:996:LYS:HE2	2.03	0.41
2:C:630:ARG:HH12	2:C:707:ARG:HB2	1.85	0.41
2:C:597:ALA:CB	2:C:655:LEU:HD21	2.48	0.41
2:C:705:ILE:HG23	2:C:827:VAL:O	2.21	0.41
2:C:710:ILE:HD11	2:C:758:ARG:HE	1.85	0.41
2:C:713:ARG:HH11	2:C:713:ARG:HG3	1.85	0.41
2:C:723:THR:HB	9:C:2334:HOH:O	2.20	0.41
2:C:929:ARG:HH11	2:C:929:ARG:HG3	1.86	0.41
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.88	0.41
3:D:1389:LEU:HD13	9:D:2920:HOH:O	2.20	0.41
3:D:169:TYR:HA	3:D:392:SER:HA	2.03	0.41
3:D:493:ARG:HH12	3:D:1390:LEU:CB	2.32	0.41
3:D:54:LYS:HD3	3:D:57:GLU:OE2	2.21	0.41
3:D:699:VAL:HA	3:D:718:PRO:HD3	2.02	0.41
3:D:783:ARG:HH21	3:D:1029:ARG:NH1	2.18	0.41
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.56	0.41
4:E:68:LEU:HA	4:E:73:LEU:HD13	2.03	0.41
5:F:401:GLU:HA	9:F:9597:HOH:O	2.20	0.41
5:F:421:PHE:C	5:F:423:ASP:H	2.24	0.41
1:L:206:THR:HG22	1:L:209:GLU:CG	2.50	0.41
1:L:86:VAL:O	1:L:86:VAL:HG13	2.21	0.41
2:M:1018:GLN:HB3	2:M:1060:ILE:HD11	2.03	0.41
2:M:63:GLY:HA3	2:M:103:LYS:CD	2.50	0.41
2:M:139:GLN:CD	2:M:418:LEU:HD22	2.41	0.41
2:M:14:PRO:HA	9:M:2059:HOH:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:342:ASP:HA	2:M:345:ARG:HG2	2.03	0.41
2:M:674:VAL:O	2:M:989:VAL:HA	2.20	0.41
3:N:1136:LYS:O	3:N:1139:ASP:HB2	2.20	0.41
3:N:1305:LEU:HD21	3:N:1326:THR:OG1	2.20	0.41
3:N:528:VAL:HG12	3:N:529:GLN:N	2.35	0.41
3:N:704:ARG:CG	3:N:736:PHE:HB3	2.44	0.41
3:N:897:TRP:CH2	3:N:902:LEU:HD21	2.56	0.41
3:N:1481:VAL:HG11	4:O:18:ARG:CB	2.51	0.41
5:P:358:LEU:CD2	5:P:370:LYS:HG3	2.51	0.41
2:C:175:GLU:HB3	2:C:183:SER:HG	1.86	0.41
2:C:232:GLU:O	2:C:235:LEU:HB2	2.20	0.41
2:C:338:GLU:O	2:C:341:THR:HG22	2.21	0.41
2:C:34:VAL:HG22	9:C:2353:HOH:O	2.19	0.41
2:C:536:PRO:O	2:C:539:VAL:HG23	2.20	0.41
2:C:597:ALA:HB2	2:C:655:LEU:CD2	2.47	0.41
2:C:668:LEU:O	2:C:993:PHE:CZ	2.74	0.41
2:C:670:GLN:HE22	2:C:699:PHE:C	2.24	0.41
2:C:816:LYS:O	2:C:819:VAL:HB	2.21	0.41
2:C:76:PRO:HB3	2:C:90:TYR:HE1	1.86	0.41
2:C:916:GLU:O	2:C:919:ALA:HB3	2.21	0.41
2:C:932:GLU:CB	9:C:2388:HOH:O	2.68	0.41
2:C:973:VAL:HG13	9:C:9633:HOH:O	2.21	0.41
3:D:127:LEU:HD21	3:D:461:ILE:CD1	2.50	0.41
3:D:389:GLU:HG2	9:D:9755:HOH:O	2.20	0.41
3:D:420:VAL:HA	5:F:164:LYS:HE3	2.01	0.41
3:D:776:GLU:HB2	9:D:2369:HOH:O	2.20	0.41
3:D:882:PHE:HA	3:D:885:ILE:HD12	2.02	0.41
2:C:1075:ASP:HB3	4:E:32:ARG:CZ	2.51	0.41
5:F:74:LYS:HD3	5:F:74:LYS:HA	1.92	0.41
1:L:27:PRO:HG2	1:L:186:LEU:HD13	2.01	0.41
1:L:46:SER:HB2	9:L:3651:HOH:O	2.19	0.41
2:M:100:LEU:HD11	2:M:368:THR:OG1	2.21	0.41
2:M:1013:TYR:CZ	2:M:1063:ARG:HD2	2.56	0.41
2:M:1102:LEU:HA	2:M:1107:ASN:O	2.21	0.41
2:M:1115:LEU:N	2:M:1115:LEU:CD1	2.83	0.41
2:M:203:ASP:OD1	2:M:206:THR:HG22	2.20	0.41
2:M:239:PHE:HZ	9:M:9883:HOH:O	2.04	0.41
2:M:253:ALA:HB3	9:M:9883:HOH:O	2.20	0.41
2:M:261:ILE:HG22	2:M:262:ALA:N	2.36	0.41
2:M:311:PHE:HB3	9:M:9648:HOH:O	2.21	0.41
2:M:543:ASN:O	2:M:546:LEU:HD12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:54:ILE:HG22	2:M:66:LEU:HB3	2.02	0.41
2:M:950:LEU:HB3	2:M:952:LEU:HD23	2.03	0.41
3:N:1123:PHE:CA	3:N:1133:ARG:O	2.69	0.41
3:N:1482:ARG:HB2	3:N:1483:PHE:CD1	2.56	0.41
3:N:1492:LEU:HD12	9:N:9749:HOH:O	2.20	0.41
3:N:165:LYS:NZ	3:N:166:GLN:HE22	2.19	0.41
3:N:456:MET:C	9:N:9968:HOH:O	2.59	0.41
3:N:586:ARG:HG2	9:N:2177:HOH:O	2.21	0.41
3:N:62:LYS:HE2	3:N:75:ARG:HH11	1.86	0.41
3:N:82:LYS:HG2	5:P:337:HIS:HB3	2.02	0.41
2:M:1090:LYS:NZ	3:N:90:MET:HG3	2.36	0.41
3:N:933:ALA:O	3:N:937:TYR:HD1	2.04	0.41
3:N:971:LEU:HD13	3:N:995:LEU:HD23	2.01	0.41
4:O:25:LYS:HE3	9:O:6116:HOH:O	2.20	0.41
4:O:49:GLN:HA	4:O:51:LEU:O	2.20	0.41
5:P:93:LEU:HD22	5:P:102:LEU:HD11	2.02	0.41
1:A:44:LEU:HD23	1:A:174:VAL:HG21	2.02	0.41
1:A:18:ARG:NH1	1:A:88:ARG:NE	2.69	0.41
1:B:19:GLU:HG3	1:B:201:THR:O	2.20	0.41
2:C:1015:LEU:HD12	9:C:9582:HOH:O	2.21	0.41
2:C:8:ARG:NE	2:C:10:ARG:HH21	2.19	0.41
2:C:233:GLU:HB2	9:C:9837:HOH:O	2.20	0.41
2:C:272:ALA:HB1	9:C:2186:HOH:O	2.21	0.41
2:C:349:ALA:O	2:C:353:ARG:HB2	2.21	0.41
3:D:1133:ARG:HG2	3:D:1134:LEU:N	2.35	0.41
3:D:1205:TYR:HE1	3:D:1221:VAL:CG1	2.33	0.41
3:D:1258:ARG:HH21	3:D:1351:GLU:CG	2.34	0.41
3:D:1326:THR:CA	9:D:9899:HOH:O	2.69	0.41
3:D:639:LEU:CD1	3:D:639:LEU:N	2.76	0.41
3:D:675:ARG:NH2	5:F:420:ASP:HA	2.36	0.41
3:D:688:TRP:HA	3:D:688:TRP:CE3	2.56	0.41
3:D:786:ILE:H	3:D:786:ILE:HG13	1.63	0.41
3:D:818:ARG:HD2	9:D:2824:HOH:O	2.20	0.41
3:D:847:ASP:HA	3:D:850:LEU:CD1	2.51	0.41
3:D:847:ASP:O	3:D:851:LEU:HG	2.21	0.41
4:E:87:LYS:NZ	4:E:91:ARG:HH21	2.19	0.41
5:F:265:VAL:HG11	9:F:9667:HOH:O	2.20	0.41
1:L:19:GLU:O	1:L:200:TRP:HA	2.21	0.41
2:M:1050:GLN:CG	2:M:1079:PRO:HG2	2.47	0.41
2:M:157:ARG:HD3	2:M:314:THR:HG22	2.02	0.41
2:M:165:LEU:HD12	2:M:166:PRO:C	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:218:VAL:HG22	2:M:221:LEU:HD21	2.03	0.41
2:M:191:PHE:CD2	2:M:238:LEU:HD21	2.55	0.41
2:M:285:LEU:HD22	9:M:9952:HOH:O	2.20	0.41
2:M:252:LYS:HZ3	2:M:296:GLY:HA3	1.86	0.41
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.36	0.41
2:M:802:ARG:NH2	9:M:2540:HOH:O	2.54	0.41
2:M:824:ARG:HE	2:M:824:ARG:HB2	1.73	0.41
3:N:1007:VAL:O	3:N:1010:ASN:HB3	2.20	0.41
3:N:1036:ARG:HH21	3:N:1043:GLY:N	2.18	0.41
2:M:882:LEU:HD21	3:N:1038:LEU:HD23	2.02	0.41
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.21	0.41
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.56	0.41
3:N:1275:SER:HB3	3:N:1325:LEU:CD1	2.50	0.41
3:N:1401:GLU:OE1	3:N:1415:VAL:HG11	2.21	0.41
3:N:396:VAL:HG13	3:N:447:VAL:HA	2.02	0.41
2:M:1101:THR:HB	3:N:5:VAL:HG13	2.03	0.41
3:N:830:ALA:HA	9:N:9989:HOH:O	2.20	0.41
5:P:169:GLU:H	5:P:169:GLU:CD	2.24	0.41
2:M:1015:LEU:HD12	5:P:334:PRO:O	2.19	0.41
1:A:109:VAL:O	1:A:129:ILE:HB	2.20	0.41
1:A:29:GLU:HB3	1:A:30:ARG:H	1.72	0.41
1:A:64:GLU:O	1:A:64:GLU:HG2	2.19	0.41
1:B:124:ASN:OD1	1:B:127:LEU:HD22	2.21	0.41
1:B:23:PHE:HE1	1:B:208:LEU:HD22	1.86	0.41
2:C:1069:ALA:O	2:C:1074:GLU:HB3	2.21	0.41
2:C:304:LEU:HD21	9:C:9585:HOH:O	2.20	0.41
2:C:304:LEU:HD23	2:C:305:PRO:HD3	2.03	0.41
2:C:44:ILE:HD11	2:C:340:MET:SD	2.61	0.41
2:C:358:ARG:HH12	2:C:374:ASN:HB3	1.85	0.41
2:C:520:GLU:HA	2:C:521:PRO:HD3	1.93	0.41
2:C:6:PHE:CD1	2:C:909:ALA:HB2	2.55	0.41
2:C:710:ILE:CD1	2:C:758:ARG:HE	2.34	0.41
2:C:799:ILE:N	2:C:799:ILE:HD13	2.35	0.41
3:D:1093:TYR:HE1	3:D:1097:LYS:HZ3	1.68	0.41
3:D:112:ILE:O	3:D:116:LEU:HB2	2.21	0.41
3:D:1169:ASP:HA	9:D:2794:HOH:O	2.21	0.41
3:D:1331:ASP:OD1	3:D:1333:HIS:HB2	2.20	0.41
3:D:459:GLU:HB2	9:D:9714:HOH:O	2.20	0.41
3:D:757:ALA:CB	4:E:24:ALA:HB2	2.51	0.41
5:F:149:GLU:HB2	9:F:9715:HOH:O	2.21	0.41
1:K:224:TYR:HB3	1:L:9:PRO:CB	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:249:LYS:HG2	2:M:249:LYS:H	1.74	0.41
2:M:211:LEU:CD1	2:M:308:ARG:HA	2.51	0.41
2:M:19:THR:HG23	2:M:407:LYS:HE2	2.03	0.41
2:M:557:ARG:NH1	2:M:879:ARG:HH11	2.18	0.41
3:N:1033:GLN:HE21	3:N:1036:ARG:NH1	1.94	0.41
3:N:1042:ARG:HB2	9:N:2155:HOH:O	2.20	0.41
3:N:1071:PHE:O	3:N:1071:PHE:HD1	2.04	0.41
3:N:1225:ALA:HA	3:N:1367:HIS:ND1	2.36	0.41
3:N:1243:THR:CB	3:N:1253:THR:HB	2.50	0.41
3:N:1440:PHE:HB3	9:N:9766:HOH:O	2.19	0.41
3:N:139:GLY:N	3:N:147:VAL:HG21	2.36	0.41
3:N:1485:GLN:HG2	3:N:1485:GLN:H	1.69	0.41
3:N:601:ARG:NH2	3:N:612:GLY:HA2	2.35	0.41
3:N:658:LEU:O	3:N:661:MET:HB2	2.20	0.41
3:N:675:ARG:O	3:N:678:GLU:HG2	2.20	0.41
3:N:649:ALA:CB	3:N:720:LEU:HD21	2.51	0.41
3:N:729:HIS:ND1	3:N:730:PRO:HD2	2.36	0.41
3:N:853:VAL:HA	3:N:858:VAL:O	2.20	0.41
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.81	0.41
5:P:195:VAL:HG21	5:P:217:ASN:HA	2.03	0.41
5:P:247:ILE:O	5:P:251:ILE:HG13	2.21	0.41
5:P:372:ARG:HD3	9:P:4888:HOH:O	2.21	0.41
1:B:101:LEU:HD12	1:B:114:PHE:CD1	2.56	0.41
1:A:32:PHE:CZ	1:B:43:ILE:HD12	2.56	0.41
1:B:95:GLN:HB2	1:B:95:GLN:HE21	1.65	0.41
2:C:254:VAL:O	2:C:257:VAL:HG23	2.20	0.41
2:C:252:LYS:HB3	2:C:298:PHE:HZ	1.84	0.41
2:C:413:LEU:H	2:C:413:LEU:CD1	2.32	0.41
2:C:437:ARG:HA	2:C:467:ILE:CG2	2.47	0.41
2:C:455:LEU:H	2:C:455:LEU:CD2	2.34	0.41
2:C:589:ARG:HB3	9:C:9581:HOH:O	2.21	0.41
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.56	0.41
2:C:521:PRO:CB	3:D:1055:VAL:HB	2.48	0.41
3:D:1152:GLU:CG	3:D:1159:ARG:HH12	2.33	0.41
3:D:177:ALA:HB1	3:D:199:LEU:HB3	2.03	0.41
3:D:421:LEU:HD23	3:D:421:LEU:O	2.20	0.41
3:D:480:GLU:OE1	3:D:484:PRO:HG2	2.21	0.41
3:D:604:THR:C	3:D:606:ILE:N	2.74	0.41
3:D:61:GLY:O	3:D:64:LYS:HD2	2.21	0.41
3:D:916:TYR:C	3:D:916:TYR:HD2	2.24	0.41
3:D:779:ALA:HB1	3:D:931:LEU:HD22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:10:PHE:CE2	4:E:16:LYS:HG3	2.55	0.41
3:D:696:HIS:HB2	4:E:48:MET:HE1	2.03	0.41
9:D:9710:HOH:O	5:F:164:LYS:HG2	2.21	0.41
1:K:108:GLU:OE1	1:K:110:LYS:HE3	2.21	0.41
1:K:58:ILE:HD13	1:K:140:MET:HB2	2.02	0.41
1:K:179:PHE:CD2	1:K:179:PHE:N	2.89	0.41
1:K:192:LEU:HD21	9:K:6176:HOH:O	2.20	0.41
1:L:72:LYS:HE3	1:L:72:LYS:HB2	1.94	0.41
2:M:118:ILE:HA	2:M:119:PRO:HD3	1.99	0.41
2:M:216:GLU:HB2	9:M:9791:HOH:O	2.19	0.41
2:M:242:LEU:HD21	9:M:2213:HOH:O	2.20	0.41
2:M:157:ARG:HD3	2:M:314:THR:CG2	2.50	0.41
3:N:1117:TYR:N	3:N:1117:TYR:CD2	2.88	0.41
3:N:1406:ARG:HG2	3:N:1406:ARG:NH1	2.36	0.41
3:N:587:ARG:NH1	3:N:587:ARG:HB3	2.35	0.41
2:M:1030:GLN:HB2	3:N:626:SER:HB2	2.03	0.41
3:N:683:ILE:HG23	3:N:687:VAL:CG2	2.51	0.41
3:N:708:LEU:HD23	3:N:708:LEU:HA	1.84	0.41
2:M:1115:LEU:HD23	3:N:85:VAL:CA	2.51	0.41
3:N:884:ARG:HD3	3:N:888:GLU:CD	2.41	0.41
3:N:907:GLU:HG2	3:N:908:LYS:H	1.82	0.41
4:O:3:GLU:HA	9:O:4620:HOH:O	2.21	0.41
4:O:54:LEU:HG	9:O:3710:HOH:O	2.19	0.41
4:O:82:GLU:HG3	9:O:3831:HOH:O	2.20	0.41
5:P:135:ILE:O	5:P:135:ILE:HD13	2.20	0.41
5:P:201:LYS:HG2	9:P:4854:HOH:O	2.20	0.41
5:P:317:LEU:HD21	5:P:333:ILE:HD12	2.02	0.41
1:A:161:ARG:HG2	9:A:9594:HOH:O	2.21	0.41
2:C:108:ILE:H	2:C:108:ILE:HD12	1.85	0.41
2:C:585:GLU:HB2	9:C:9765:HOH:O	2.21	0.41
2:C:612:VAL:HG22	2:C:622:GLU:CA	2.46	0.41
2:C:699:PHE:N	9:C:9889:HOH:O	2.54	0.41
2:C:720:GLU:HG2	2:C:760:SER:HB3	2.03	0.41
2:C:897:LEU:HB3	2:C:899:GLN:HG2	2.03	0.41
2:C:926:PHE:HA	2:C:929:ARG:HB2	2.02	0.41
3:D:1103:HIS:CG	3:D:1104:GLU:N	2.89	0.41
3:D:115:LEU:HD22	3:D:502:PHE:CE1	2.56	0.41
3:D:1319:VAL:HG23	3:D:1319:VAL:O	2.21	0.41
3:D:1346:ARG:HG2	3:D:1346:ARG:HH11	1.86	0.41
3:D:1458:GLU:OE2	3:D:1458:GLU:HA	2.21	0.41
3:D:483:HIS:HB2	9:D:2535:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.35	0.41
3:D:653:PHE:HD1	3:D:653:PHE:N	2.18	0.41
3:D:867:ARG:CB	3:D:867:ARG:HH11	2.33	0.41
5:F:123:ASP:N	5:F:126:LEU:HD22	2.36	0.41
5:F:373:LYS:HD3	5:F:378:GLY:C	2.41	0.41
1:K:127:LEU:HD12	1:K:128:HIS:N	2.37	0.41
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.56	0.41
1:K:74:ASP:OD1	1:K:77:GLU:N	2.52	0.41
1:L:29:GLU:HB3	1:L:30:ARG:H	1.61	0.41
2:M:12:VAL:HG22	2:M:13:ILE:HG23	2.02	0.41
2:M:168:ARG:HD2	2:M:168:ARG:H	1.85	0.41
2:M:202:TYR:HE2	2:M:304:LEU:HB3	1.86	0.41
2:M:395:LYS:HG2	2:M:397:GLU:HG2	2.03	0.41
2:M:401:LEU:HD13	2:M:666:LEU:HD22	2.02	0.41
2:M:520:GLU:O	2:M:522:VAL:HG23	2.21	0.41
2:M:669:GLY:C	2:M:670:GLN:HG2	2.41	0.41
2:M:815:LEU:HD21	2:M:820:ARG:O	2.21	0.41
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.51	0.41
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.21	0.41
3:N:416:ALA:HB3	3:N:417:PRO:HD3	2.02	0.41
3:N:506:GLY:HA3	9:N:9591:HOH:O	2.21	0.41
3:N:65:ARG:HH11	3:N:65:ARG:HG2	1.86	0.41
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.56	0.41
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.86	0.41
5:P:353:GLU:OE2	5:P:356:LYS:HE2	2.21	0.41
1:B:32:PHE:O	1:B:36:LEU:HD12	2.21	0.40
1:B:86:VAL:HG13	1:B:86:VAL:O	2.20	0.40
2:C:1034:GLU:CA	2:C:1037:VAL:HG23	2.50	0.40
2:C:170:PRO:HG2	2:C:258:TYR:CD2	2.56	0.40
2:C:524:VAL:HG22	2:C:528:GLU:CD	2.41	0.40
2:C:534:VAL:N	2:C:538:GLN:NE2	2.69	0.40
2:C:569:VAL:HA	2:C:570:PRO:HD3	1.97	0.40
2:C:681:GLY:C	3:D:635:PRO:CG	2.89	0.40
2:C:858:MET:SD	2:C:867:VAL:O	2.79	0.40
2:C:837:ASP:HA	2:C:999:HIS:CE1	2.56	0.40
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.47	0.40
3:D:1160:LEU:HD11	3:D:1174:LEU:CD2	2.37	0.40
3:D:1263:PHE:CE2	3:D:1371:VAL:HG11	2.57	0.40
3:D:187:LYS:NZ	3:D:213:VAL:HG12	2.36	0.40
3:D:135:LEU:HA	3:D:453:ASP:O	2.21	0.40
3:D:543:LEU:HA	3:D:546:ARG:CG	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:719:VAL:O	3:D:719:VAL:HG23	2.20	0.40
5:F:172:ARG:O	5:F:176:ILE:HD13	2.20	0.40
5:F:295:MET:HB3	5:F:299:TRP:CG	2.56	0.40
5:F:298:GLY:N	9:F:9729:HOH:O	2.54	0.40
1:K:1:MET:O	1:K:6:LEU:HB2	2.22	0.40
1:K:37:GLY:HA3	1:K:179:PHE:CD1	2.56	0.40
2:M:292:ARG:CB	2:M:299:LYS:HE2	2.50	0.40
2:M:304:LEU:O	2:M:308:ARG:HB2	2.20	0.40
2:M:539:VAL:HB	2:M:540:PHE:CD1	2.56	0.40
3:N:1044:LEU:HA	9:N:9900:HOH:O	2.21	0.40
3:N:1156:LEU:HG	3:N:1177:ALA:HB2	2.02	0.40
3:N:1182:GLU:HG2	9:N:9782:HOH:O	2.21	0.40
3:N:1197:ARG:HD2	3:N:1198:TYR:HE1	1.86	0.40
3:N:1238:MET:HG2	3:N:1256:LEU:HD23	2.02	0.40
3:N:1273:VAL:O	3:N:1273:VAL:HG23	2.21	0.40
3:N:1346:ARG:HA	3:N:1346:ARG:NE	2.36	0.40
3:N:639:LEU:HD12	3:N:640:HIS:H	1.86	0.40
3:N:666:ILE:N	3:N:666:ILE:HD12	2.27	0.40
3:N:728:LEU:HD12	3:N:729:HIS:H	1.85	0.40
2:C:1100:GLN:HG3	2:C:1101:THR:O	2.22	0.40
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.51	0.40
2:C:305:PRO:HA	2:C:308:ARG:NE	2.36	0.40
2:C:841:ASN:HD21	2:C:845:ASN:H	1.69	0.40
1:A:178:ALA:HB1	2:C:864:GLY:H	1.85	0.40
2:C:83:CYS:CA	2:C:88:LEU:HB3	2.47	0.40
2:C:839:LEU:HD12	2:C:994:ILE:HG21	2.03	0.40
3:D:1103:HIS:C	9:D:9709:HOH:O	2.59	0.40
3:D:455:ARG:HG2	3:D:455:ARG:HH11	1.85	0.40
3:D:57:GLU:HG2	3:D:58:CYS:O	2.22	0.40
3:D:644:LEU:HD23	3:D:718:PRO:HB3	2.03	0.40
3:D:647:ARG:HD3	3:D:647:ARG:O	2.22	0.40
3:D:62:LYS:HE2	3:D:75:ARG:HH22	1.85	0.40
3:D:420:VAL:HG13	5:F:164:LYS:NZ	2.36	0.40
5:F:181:GLU:O	5:F:184:ARG:HB3	2.21	0.40
3:D:561:GLY:CA	5:F:184:ARG:HH12	2.34	0.40
5:F:309:LYS:NZ	9:F:9939:HOH:O	2.54	0.40
5:F:316:SER:C	5:F:318:GLU:N	2.75	0.40
2:C:1021:LEU:CD1	5:F:332:PHE:HA	2.51	0.40
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.56	0.40
1:K:111:ALA:HB3	1:K:124:ASN:O	2.22	0.40
1:K:9:PRO:HD2	1:L:224:TYR:CE1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:146:VAL:HG11	2:M:306:THR:HG22	2.02	0.40
2:M:343:GLN:NE2	2:M:343:GLN:HA	2.36	0.40
2:M:360:LEU:HD12	9:M:9853:HOH:O	2.21	0.40
2:M:393:GLN:OE1	2:M:406:HIS:NE2	2.52	0.40
2:M:460:ARG:HD2	2:M:485:TYR:CE2	2.57	0.40
2:M:542:VAL:HG13	2:M:583:LEU:HD23	2.03	0.40
2:M:929:ARG:HH11	2:M:929:ARG:HG3	1.86	0.40
2:M:961:GLU:OE2	2:M:961:GLU:HA	2.20	0.40
3:N:1087:ARG:CG	3:N:1238:MET:HB2	2.51	0.40
3:N:1296:SER:HA	9:N:9818:HOH:O	2.21	0.40
1:L:152:PRO:HG2	3:N:857:ILE:HD12	2.02	0.40
3:N:866:VAL:HG12	3:N:867:ARG:N	2.36	0.40
5:P:137:GLY:HA3	9:P:3900:HOH:O	2.21	0.40
5:P:304:VAL:HG22	9:P:4835:HOH:O	2.21	0.40
3:N:34:TYR:CD1	5:P:310:ILE:HD13	2.55	0.40
1:A:102:LYS:HG3	1:A:139:ASN:HB2	2.03	0.40
1:A:76:VAL:HB	9:A:9703:HOH:O	2.20	0.40
1:A:9:PRO:HG2	1:B:224:TYR:CD2	2.56	0.40
2:C:1005:MET:HB3	3:D:629:SER:CB	2.51	0.40
2:C:147:TYR:HE2	2:C:280:LYS:NZ	2.18	0.40
2:C:224:GLU:HB3	2:C:227:PHE:CD1	2.56	0.40
2:C:264:PRO:HA	9:C:9831:HOH:O	2.21	0.40
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.57	0.40
2:C:124:ASP:HB2	2:C:407:LYS:HZ3	1.87	0.40
2:C:598:GLU:HB2	2:C:615:TYR:CZ	2.56	0.40
9:A:9703:HOH:O	2:C:628:PHE:HZ	2.05	0.40
2:C:395:LYS:N	2:C:632:ASN:HD22	2.19	0.40
2:C:578:VAL:N	2:C:671:ASN:OD1	2.54	0.40
2:C:717:LEU:N	2:C:717:LEU:HD23	2.36	0.40
3:D:1010:ASN:HA	9:D:9981:HOH:O	2.21	0.40
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.36	0.40
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.52	0.40
3:D:135:LEU:HD21	3:D:138:LYS:C	2.41	0.40
3:D:206:ARG:O	3:D:206:ARG:HD3	2.22	0.40
3:D:445:ARG:HH11	3:D:445:ARG:CB	2.31	0.40
3:D:951:ILE:HD13	3:D:951:ILE:O	2.21	0.40
5:F:84:TYR:CD2	5:F:192:LEU:HD13	2.56	0.40
5:F:235:PHE:CA	9:F:9866:HOH:O	2.66	0.40
5:F:363:GLU:CA	5:F:367:MET:HG2	2.51	0.40
1:K:83:LYS:HE2	1:K:168:ASP:HB2	2.03	0.40
1:K:219:ARG:HG3	9:K:6366:HOH:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:185:ARG:HG3	9:L:3590:HOH:O	2.20	0.40
1:L:97:VAL:HG22	9:L:5813:HOH:O	2.22	0.40
2:M:27:ARG:HG3	9:M:2339:HOH:O	2.21	0.40
2:M:142:ARG:HH11	2:M:325:ILE:HG23	1.86	0.40
2:M:490:GLU:HG2	2:M:494:TYR:CE1	2.56	0.40
2:M:713:ARG:O	2:M:720:GLU:HG3	2.22	0.40
2:M:762:LYS:HD3	2:M:771:GLU:OE2	2.20	0.40
2:M:884:GLN:HG2	2:M:885:ILE:N	2.37	0.40
2:M:987:ILE:HG12	3:N:948:THR:CG2	2.47	0.40
2:M:671:ASN:HD22	2:M:993:PHE:HA	1.87	0.40
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.36	0.40
3:N:1398:TRP:HH2	9:N:9689:HOH:O	2.02	0.40
3:N:1478:SER:C	3:N:1480:PHE:N	2.74	0.40
4:O:45:ARG:HG2	4:O:45:ARG:NH1	2.36	0.40
5:P:244:ARG:O	5:P:248:ASN:ND2	2.55	0.40
9:N:9917:HOH:O	5:P:325:LYS:HG3	2.21	0.40
5:P:85:LEU:HD13	5:P:193:ARG:NH1	2.29	0.40
1:A:216:GLU:O	1:A:220:GLU:HG3	2.21	0.40
1:A:30:ARG:HD3	1:A:191:ASP:OD1	2.22	0.40
1:A:58:ILE:HG21	1:A:68:ILE:CD1	2.51	0.40
1:A:89:PHE:HB3	1:A:120:VAL:HG23	2.04	0.40
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.34	0.40
2:C:238:LEU:HD23	2:C:238:LEU:O	2.22	0.40
2:C:26:TYR:CE2	2:C:30:LEU:HD21	2.57	0.40
2:C:479:VAL:HG22	2:C:508:ILE:CD1	2.51	0.40
2:C:695:LEU:N	9:C:9871:HOH:O	2.54	0.40
2:C:958:THR:HG23	2:C:961:GLU:HG3	2.03	0.40
3:D:1166:LEU:CD1	3:D:1171:VAL:HG22	2.43	0.40
3:D:1155:VAL:CG1	3:D:1183:ILE:HD11	2.52	0.40
3:D:786:ILE:HD13	3:D:908:LYS:HB3	2.03	0.40
5:F:147:LEU:HD23	9:F:9589:HOH:O	2.21	0.40
5:F:171:LYS:HE3	5:F:175:HIS:NE2	2.36	0.40
5:F:279:GLN:HB2	9:F:9736:HOH:O	2.22	0.40
1:K:101:LEU:HD11	1:K:109:VAL:CG1	2.51	0.40
1:K:106:PRO:HD3	9:K:5912:HOH:O	2.21	0.40
1:K:68:ILE:HD13	1:K:138:LEU:CD2	2.52	0.40
2:M:1097:LEU:HD22	2:M:1097:LEU:N	2.36	0.40
2:M:154:ARG:HB3	9:M:9876:HOH:O	2.21	0.40
2:M:21:ILE:HD12	2:M:21:ILE:N	2.37	0.40
2:M:230:ARG:HB2	9:M:2176:HOH:O	2.22	0.40
2:M:19:THR:O	2:M:23:VAL:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:486:MET:HG2	9:M:9856:HOH:O	2.21	0.40
2:M:535:SER:H	2:M:538:GLN:HE21	1.68	0.40
2:M:728:HIS:O	2:M:729:LEU:HD12	2.21	0.40
2:M:777:ILE:HG22	9:P:3891:HOH:O	2.22	0.40
2:M:876:VAL:HG22	2:M:884:GLN:NE2	2.37	0.40
3:N:12:LEU:HD22	3:N:511:TRP:HB2	2.02	0.40
3:N:1459:LEU:HD22	3:N:1465:ASN:ND2	2.37	0.40
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.52	0.40
4:O:78:ASN:HB3	9:O:3963:HOH:O	2.22	0.40
5:P:228:GLU:HG2	9:P:5612:HOH:O	2.21	0.40
5:P:363:GLU:CA	5:P:367:MET:HG2	2.49	0.40
5:P:399:GLN:HE21	5:P:399:GLN:HB3	1.65	0.40
1:A:111:ALA:HB3	1:A:124:ASN:O	2.21	0.40
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.46	0.40
1:B:89:PHE:HD1	1:B:120:VAL:HG13	1.85	0.40
1:B:84:GLU:HG3	1:B:127:LEU:HD21	2.04	0.40
1:B:142:VAL:HG23	1:B:142:VAL:O	2.21	0.40
2:C:1083:GLU:OE1	2:C:1083:GLU:HA	2.21	0.40
2:C:1095:LEU:O	2:C:1096:ALA:C	2.59	0.40
2:C:116:GLY:HA3	2:C:378:LEU:HD23	2.02	0.40
2:C:195:LEU:CD1	2:C:234:ALA:HB1	2.51	0.40
2:C:139:GLN:NE2	2:C:415:PRO:HD3	2.36	0.40
2:C:420:ARG:HG2	2:C:422:ARG:HG2	2.03	0.40
2:C:588:VAL:HG23	2:C:589:ARG:N	2.36	0.40
2:C:597:ALA:HB1	9:C:9597:HOH:O	2.21	0.40
2:C:77:PRO:HD2	2:C:91:GLN:O	2.21	0.40
2:C:811:PRO:HD3	9:C:2160:HOH:O	2.21	0.40
2:C:839:LEU:HB2	2:C:994:ILE:CG2	2.52	0.40
1:A:46:SER:HB3	2:C:856:GLU:CD	2.42	0.40
3:D:1047:LYS:HA	3:D:1053:PHE:CZ	2.57	0.40
3:D:1045:MET:CG	3:D:1073:SER:HA	2.29	0.40
3:D:50:PHE:HB3	3:D:522:PRO:HG2	2.03	0.40
5:F:161:GLN:NE2	9:F:9682:HOH:O	2.51	0.40
1:K:159:LYS:HD3	9:K:5879:HOH:O	2.21	0.40
1:L:176:ARG:HH22	3:N:884:ARG:HH21	1.68	0.40
2:M:114:PHE:HB2	9:M:9731:HOH:O	2.21	0.40
2:M:157:ARG:HD3	9:M:2062:HOH:O	2.22	0.40
2:M:690:ILE:CG2	2:M:852:ILE:HG13	2.51	0.40
3:N:147:VAL:HG13	9:N:9901:HOH:O	2.21	0.40
3:N:77:GLY:O	3:N:78:VAL:HG23	2.22	0.40
4:O:16:LYS:HG2	4:O:17:TYR:HD2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:151:LEU:HB3	5:P:155:THR:H	1.87	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	204 (90%)	19 (8%)	4 (2%)	10	17
1	B	227/315 (72%)	201 (88%)	21 (9%)	5 (2%)	8	12
1	K	227/315 (72%)	204 (90%)	19 (8%)	4 (2%)	10	17
1	L	227/315 (72%)	205 (90%)	18 (8%)	4 (2%)	10	17
2	C	1117/1119 (100%)	911 (82%)	153 (14%)	53 (5%)	3	3
2	M	1117/1119 (100%)	904 (81%)	168 (15%)	45 (4%)	3	4
3	D	1388/1524 (91%)	1112 (80%)	202 (15%)	74 (5%)	2	2
3	N	1388/1524 (91%)	1118 (80%)	195 (14%)	75 (5%)	2	2
4	E	93/99 (94%)	74 (80%)	15 (16%)	4 (4%)	3	3
4	O	93/99 (94%)	76 (82%)	13 (14%)	4 (4%)	3	3
5	F	341/423 (81%)	286 (84%)	40 (12%)	15 (4%)	3	3
5	P	341/423 (81%)	290 (85%)	37 (11%)	14 (4%)	3	4
All	All	6786/7590 (89%)	5585 (82%)	900 (13%)	301 (4%)	3	3

All (301) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	GLU
1	B	29	GLU
1	B	48	ILE

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Mol	Chain	Res	Type
2	C	152	PRO
2	C	156	GLY
2	C	178	PRO
2	C	231	PRO
2	C	244	PRO
2	C	261	ILE
2	C	262	ALA
2	C	369	PRO
2	C	444	PRO
2	C	462	ASP
2	C	465	GLY
2	C	548	PRO
2	C	864	GLY
2	C	908	GLY
3	D	40	GLU
3	D	43	GLY
3	D	55	ASP
3	D	82	LYS
3	D	137	PRO
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	381	ALA
3	D	385	VAL
3	D	440	VAL
3	D	451	ASP
3	D	705	ALA
3	D	832	ARG
3	D	844	ALA
3	D	1028	ALA
3	D	1129	THR
3	D	1208	ASP
3	D	1243	THR
4	E	42	PRO
4	E	58	PRO
5	F	147	LEU
5	F	153	PRO
5	F	341	PRO
5	F	390	PHE

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Mol	Chain	Res	Type
1	K	29	GLU
1	L	29	GLU
2	M	152	PRO
2	M	178	PRO
2	M	231	PRO
2	M	244	PRO
2	M	261	ILE
2	M	262	ALA
2	M	290	LEU
2	M	369	PRO
2	M	444	PRO
2	M	462	ASP
2	M	465	GLY
2	M	548	PRO
2	M	864	GLY
2	M	908	GLY
3	N	40	GLU
3	N	43	GLY
3	N	55	ASP
3	N	137	PRO
3	N	208	PRO
3	N	209	ARG
3	N	217	LYS
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	385	VAL
3	N	440	VAL
3	N	451	ASP
3	N	705	ALA
3	N	832	ARG
3	N	844	ALA
3	N	1028	ALA
3	N	1125	PRO
3	N	1129	THR
3	N	1208	ASP
3	N	1243	THR
4	O	42	PRO
4	O	58	PRO
5	P	147	LEU
5	P	153	PRO

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Mol	Chain	Res	Type
5	P	390	PHE
1	B	187	GLY
2	C	59	LYS
2	C	170	PRO
2	C	268	ASP
2	C	288	ARG
2	C	290	LEU
2	C	363	SER
2	C	626	ARG
2	C	680	ASP
2	C	781	LYS
2	C	1004	LYS
2	C	1097	LEU
3	D	31	THR
3	D	98	PRO
3	D	120	ALA
3	D	165	LYS
3	D	231	VAL
3	D	415	VAL
3	D	417	PRO
3	D	504	ASP
3	D	594	PRO
3	D	609	GLY
3	D	803	GLY
3	D	822	ALA
3	D	1389	LEU
3	D	1441	GLN
4	E	53	GLY
5	F	324	GLU
5	F	326	ASP
5	F	420	ASP
1	K	187	GLY
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY
2	M	164	PRO
2	M	170	PRO
2	M	268	ASP
2	M	288	ARG
2	M	363	SER
2	M	626	ARG
2	M	680	ASP

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Mol	Chain	Res	Type
2	M	705	ILE
2	M	727	PRO
2	M	781	LYS
3	N	31	THR
3	N	96	ALA
3	N	98	PRO
3	N	165	LYS
3	N	231	VAL
3	N	381	ALA
3	N	417	PRO
3	N	504	ASP
3	N	594	PRO
3	N	609	GLY
3	N	803	GLY
3	N	822	ALA
3	N	1342	GLU
3	N	1389	LEU
3	N	1441	GLN
3	N	1446	VAL
4	O	53	GLY
5	P	288	TYR
5	P	324	GLU
5	P	326	ASP
5	P	341	PRO
1	A	187	GLY
2	C	18	LEU
2	C	164	PRO
2	C	422	ARG
2	C	424	GLY
2	C	517	ARG
2	C	627	ARG
2	C	727	PRO
2	C	1106	ASP
3	D	37	LEU
3	D	96	ALA
3	D	162	ARG
3	D	170	PRO
3	D	217	LYS
3	D	387	LEU
3	D	424	GLY
3	D	522	PRO
3	D	539	ASP

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Mol	Chain	Res	Type
3	D	766	ALA
3	D	1020	LEU
3	D	1213	ARG
3	D	1446	VAL
5	F	232	ARG
5	F	259	ARG
5	F	288	TYR
2	M	422	ARG
2	M	517	ARG
2	M	1097	LEU
2	M	1106	ASP
3	N	37	LEU
3	N	83	SER
3	N	120	ALA
3	N	170	PRO
3	N	415	VAL
3	N	424	GLY
3	N	539	ASP
3	N	1019	PRO
3	N	1213	ARG
5	P	232	ARG
5	P	420	ASP
1	A	106	PRO
1	A	188	GLN
1	B	106	PRO
2	C	180	GLY
2	C	272	ALA
2	C	425	PHE
2	C	705	ILE
2	C	835	VAL
3	D	219	GLU
3	D	416	ALA
3	D	526	PRO
3	D	924	MET
3	D	1019	PRO
3	D	1248	GLY
3	D	1287	GLU
3	D	1288	GLU
3	D	1385	GLY
5	F	286	PRO
1	K	106	PRO
1	K	188	GLN

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Mol	Chain	Res	Type
2	M	74	GLY
2	M	180	GLY
2	M	272	ALA
2	M	425	PHE
3	N	82	LYS
3	N	219	GLU
3	N	387	LEU
3	N	416	ALA
3	N	522	PRO
3	N	696	HIS
3	N	833	GLU
3	N	1248	GLY
3	N	1268	PRO
3	N	1287	GLU
3	N	1385	GLY
5	P	97	GLU
5	P	286	PRO
2	C	40	GLU
2	C	74	GLY
2	C	144	PRO
2	C	400	PRO
3	D	696	HIS
3	D	808	THR
3	D	833	GLU
3	D	1197	ARG
3	D	1241	PHE
5	F	97	GLU
5	F	297	PRO
5	F	393	THR
1	L	106	PRO
2	M	40	GLU
2	M	223	ASP
2	M	415	PRO
2	M	443	THR
2	M	529	VAL
2	M	627	ARG
3	N	509	PRO
3	N	526	PRO
3	N	808	THR
3	N	924	MET
3	N	1064	GLY
5	P	297	PRO

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Mol	Chain	Res	Type
5	P	393	THR
1	B	188	GLN
2	C	80	GLN
2	C	443	THR
2	C	529	VAL
3	D	136	ASP
3	D	173	PRO
3	D	509	PRO
3	D	1064	GLY
3	D	1432	LYS
1	L	188	GLN
2	M	779	GLY
2	M	1079	PRO
3	N	173	PRO
3	N	533	GLY
3	N	766	ALA
3	N	1241	PHE
2	C	336	VAL
2	C	779	GLY
3	D	1349	VAL
3	N	1341	PRO
2	C	415	PRO
2	C	669	GLY
3	D	368	VAL
2	M	835	VAL
3	N	530	VAL
3	N	1050	GLY
3	N	1349	VAL
5	P	167	PRO
2	C	79	PRO
2	C	377	PRO
2	C	1079	PRO
3	D	407	VAL
3	D	530	VAL
3	D	670	VAL
3	D	1050	GLY
2	M	377	PRO
3	N	169	TYR
3	N	368	VAL
3	N	670	VAL
4	O	5	GLY
2	C	905	ILE

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Mol	Chain	Res	Type
4	E	5	GLY
5	F	167	PRO
2	M	79	PRO
3	N	136	ASP

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%)	148 (73%)	54 (27%)	0	0
1	B	202/273 (74%)	164 (81%)	38 (19%)	2	3
1	K	202/273 (74%)	144 (71%)	58 (29%)	0	0
1	L	202/273 (74%)	159 (79%)	43 (21%)	1	2
2	C	941/941 (100%)	738 (78%)	203 (22%)	1	2
2	M	941/941 (100%)	737 (78%)	204 (22%)	1	2
3	D	1123/1279 (88%)	841 (75%)	282 (25%)	0	1
3	N	1123/1279 (88%)	865 (77%)	258 (23%)	1	1
4	E	83/87 (95%)	67 (81%)	16 (19%)	1	3
4	O	83/87 (95%)	61 (74%)	22 (26%)	0	1
5	F	295/370 (80%)	235 (80%)	60 (20%)	1	2
5	P	295/370 (80%)	247 (84%)	48 (16%)	3	5
All	All	5692/6446 (88%)	4406 (77%)	1286 (23%)	1	1

All (1286) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	5	LYS
1	A	9	PRO
1	A	12	THR
1	A	15	THR
1	A	19	GLU

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Mol	Chain	Res	Type
1	A	20	TYR
1	A	26	GLU
1	A	32	PHE
1	A	34	VAL
1	A	40	LEU
1	A	44	LEU
1	A	47	SER
1	A	73	GLU
1	A	74	ASP
1	A	77	GLU
1	A	86	VAL
1	A	89	PHE
1	A	92	PRO
1	A	96	THR
1	A	101	LEU
1	A	104	GLU
1	A	112	ARG
1	A	113	ASP
1	A	119	ASP
1	A	120	VAL
1	A	121	GLU
1	A	126	ASP
1	A	127	LEU
1	A	137	ARG
1	A	139	ASN
1	A	142	VAL
1	A	145	ASP
1	A	156	HIS
1	A	161	ARG
1	A	163	ASN
1	A	167	VAL
1	A	168	ASP
1	A	170	VAL
1	A	176	ARG
1	A	180	GLN
1	A	183	ASP
1	A	186	LEU
1	A	188	GLN
1	A	191	ASP
1	A	193	ASP
1	A	197	LEU
1	A	206	THR

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Mol	Chain	Res	Type
1	A	211	LEU
1	A	216	GLU
1	A	222	LEU
1	A	223	THR
1	A	227	ASN
1	A	229	GLN
1	B	1	MET
1	B	5	LYS
1	B	7	LYS
1	B	25	LEU
1	B	26	GLU
1	B	29	GLU
1	B	65	PHE
1	B	68	ILE
1	B	73	GLU
1	B	77	GLU
1	B	80	LEU
1	B	81	ASN
1	B	87	VAL
1	B	88	ARG
1	B	89	PHE
1	B	92	PRO
1	B	94	LEU
1	B	95	GLN
1	B	96	THR
1	B	101	LEU
1	B	112	ARG
1	B	119	ASP
1	B	124	ASN
1	B	138	LEU
1	B	140	MET
1	B	141	GLU
1	B	148	VAL
1	B	159	LYS
1	B	176	ARG
1	B	180	GLN
1	B	196	THR
1	B	200	TRP
1	B	208	LEU
1	B	209	GLU
1	B	220	GLU
1	B	222	LEU

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Mol	Chain	Res	Type
1	B	224	TYR
1	B	227	ASN
2	C	1	MET
2	C	5	ARG
2	C	9	ILE
2	C	10	ARG
2	C	20	GLU
2	C	22	GLN
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN
2	C	34	VAL
2	C	39	ARG
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	71	TYR
2	C	73	LEU
2	C	75	GLU
2	C	87	ASP
2	C	95	TYR
2	C	98	LEU
2	C	99	GLN
2	C	100	LEU
2	C	104	ASP
2	C	108	ILE
2	C	110	GLU
2	C	114	PHE
2	C	115	LEU
2	C	118	ILE
2	C	133	ASP
2	C	140	ILE
2	C	141	HIS
2	C	149	THR
2	C	152	PRO
2	C	157	ARG
2	C	158	TYR
2	C	163	ILE
2	C	168	ARG
2	C	170	PRO
2	C	178	PRO
2	C	184	MET

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Mol	Chain	Res	Type
2	C	193	LEU
2	C	198	ARG
2	C	205	GLU
2	C	209	ARG
2	C	211	LEU
2	C	216	GLU
2	C	221	LEU
2	C	223	ASP
2	C	229	MET
2	C	237	ARG
2	C	243	ARG
2	C	250	ARG
2	C	252	LYS
2	C	257	VAL
2	C	260	LEU
2	C	267	TYR
2	C	271	GLU
2	C	275	TYR
2	C	279	GLU
2	C	281	LEU
2	C	285	LEU
2	C	290	LEU
2	C	293	PHE
2	C	297	GLU
2	C	303	PHE
2	C	304	LEU
2	C	321	GLU
2	C	323	ASP
2	C	342	ASP
2	C	343	GLN
2	C	345	ARG
2	C	357	GLU
2	C	359	MET
2	C	360	LEU
2	C	365	ASP
2	C	371	LYS
2	C	384	GLU
2	C	388	ARG
2	C	392	SER
2	C	394	PHE
2	C	399	ASN
2	C	408	ARG

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Mol	Chain	Res	Type
2	C	413	LEU
2	C	419	THR
2	C	420	ARG
2	C	421	GLU
2	C	425	PHE
2	C	432	ARG
2	C	443	THR
2	C	448	ASN
2	C	451	LEU
2	C	452	ILE
2	C	460	ARG
2	C	474	VAL
2	C	479	VAL
2	C	482	GLU
2	C	486	MET
2	C	491	GLU
2	C	492	ASP
2	C	496	ILE
2	C	503	LEU
2	C	504	GLU
2	C	508	ILE
2	C	524	VAL
2	C	527	GLU
2	C	533	ASP
2	C	539	VAL
2	C	543	ASN
2	C	549	PHE
2	C	557	ARG
2	C	559	LEU
2	C	564	MET
2	C	565	GLN
2	C	571	LEU
2	C	620	LEU
2	C	622	GLU
2	C	633	GLN
2	C	640	ARG
2	C	645	VAL
2	C	650	ARG
2	C	654	LEU
2	C	655	LEU
2	C	657	ASP
2	C	668	LEU

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Mol	Chain	Res	Type
2	C	671	ASN
2	C	672	VAL
2	C	679	PHE
2	C	684	PHE
2	C	690	ILE
2	C	693	GLU
2	C	697	ARG
2	C	698	ASP
2	C	699	PHE
2	C	707	ARG
2	C	717	LEU
2	C	724	ARG
2	C	725	ASP
2	C	727	PRO
2	C	729	LEU
2	C	730	SER
2	C	737	LEU
2	C	740	GLU
2	C	744	ARG
2	C	750	LYS
2	C	775	ARG
2	C	780	GLU
2	C	785	VAL
2	C	791	ARG
2	C	794	PRO
2	C	799	ILE
2	C	802	ARG
2	C	804	VAL
2	C	808	ARG
2	C	814	GLU
2	C	821	GLU
2	C	829	GLN
2	C	834	GLN
2	C	837	ASP
2	C	839	LEU
2	C	841	ASN
2	C	857	ASP
2	C	858	MET
2	C	862	PRO
2	C	863	ASP
2	C	870	ILE
2	C	881	ASN

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Mol	Chain	Res	Type
2	C	882	LEU
2	C	900	ARG
2	C	901	TYR
2	C	904	PRO
2	C	905	ILE
2	C	907	ASP
2	C	923	GLU
2	C	925	TYR
2	C	929	ARG
2	C	932	GLU
2	C	934	PHE
2	C	937	ASP
2	C	950	LEU
2	C	952	LEU
2	C	953	VAL
2	C	958	THR
2	C	959	PRO
2	C	971	LYS
2	C	975	TYR
2	C	984	GLU
2	C	993	PHE
2	C	995	MET
2	C	1002	GLU
2	C	1008	ARG
2	C	1016	ILE
2	C	1017	THR
2	C	1019	GLN
2	C	1021	LEU
2	C	1035	MET
2	C	1036	GLU
2	C	1052	MET
2	C	1076	VAL
2	C	1079	PRO
2	C	1084	SER
2	C	1087	VAL
2	C	1092	LEU
2	C	1098	ASP
3	D	3	LYS
3	D	4	GLU
3	D	6	ARG
3	D	9	ARG
3	D	14	SER

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Mol	Chain	Res	Type
3	D	16	GLU
3	D	17	LYS
3	D	25	GLU
3	D	27	GLU
3	D	29	PRO
3	D	32	ILE
3	D	38	LYS
3	D	41	ARG
3	D	47	GLU
3	D	48	ARG
3	D	53	ILE
3	D	55	ASP
3	D	56	TYR
3	D	58	CYS
3	D	62	LYS
3	D	71	LYS
3	D	76	CYS
3	D	80	VAL
3	D	82	LYS
3	D	85	VAL
3	D	86	ARG
3	D	87	ARG
3	D	89	ARG
3	D	98	PRO
3	D	101	HIS
3	D	102	ILE
3	D	103	TRP
3	D	107	ASP
3	D	112	ILE
3	D	115	LEU
3	D	118	LEU
3	D	122	GLU
3	D	123	LEU
3	D	130	SER
3	D	133	ILE
3	D	145	VAL
3	D	153	LEU
3	D	155	ASP
3	D	156	GLU
3	D	162	ARG
3	D	166	GLN
3	D	170	PRO

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Mol	Chain	Res	Type
3	D	171	LEU
3	D	183	GLU
3	D	185	VAL
3	D	199	LEU
3	D	200	ASP
3	D	205	TYR
3	D	206	ARG
3	D	208	PRO
3	D	209	ARG
3	D	210	ARG
3	D	389	GLU
3	D	394	LEU
3	D	395	VAL
3	D	405	ASP
3	D	411	THR
3	D	413	ASP
3	D	421	LEU
3	D	432	TYR
3	D	444	VAL
3	D	445	ARG
3	D	455	ARG
3	D	456	MET
3	D	465	LEU
3	D	475	LYS
3	D	481	MET
3	D	482	LYS
3	D	483	HIS
3	D	493	ARG
3	D	494	LYS
3	D	502	PHE
3	D	504	ASP
3	D	513	ILE
3	D	521	PRO
3	D	525	ARG
3	D	529	GLN
3	D	531	ASP
3	D	535	PHE
3	D	537	THR
3	D	540	LEU
3	D	546	ARG
3	D	549	ASN
3	D	565	ILE

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Mol	Chain	Res	Type
3	D	571	LYS
3	D	573	MET
3	D	590	PRO
3	D	594	PRO
3	D	597	ASP
3	D	598	ARG
3	D	605	ASP
3	D	613	ARG
3	D	614	PHE
3	D	615	ARG
3	D	617	ASN
3	D	624	ASP
3	D	636	GLN
3	D	638	LYS
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	661	MET
3	D	666	ILE
3	D	668	PRO
3	D	675	ARG
3	D	676	MET
3	D	681	ARG
3	D	682	ASP
3	D	685	ASP
3	D	688	TRP
3	D	692	GLU
3	D	701	LEU
3	D	702	LEU
3	D	704	ARG
3	D	709	HIS
3	D	713	ILE
3	D	721	VAL
3	D	724	GLN
3	D	732	VAL
3	D	734	GLU
3	D	739	ASP
3	D	749	VAL
3	D	754	PHE
3	D	767	HIS
3	D	784	ASP
3	D	792	ILE

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Mol	Chain	Res	Type
3	D	793	THR
3	D	794	GLN
3	D	796	ARG
3	D	797	LYS
3	D	800	LYS
3	D	805	GLU
3	D	808	THR
3	D	828	LYS
3	D	829	VAL
3	D	832	ARG
3	D	833	GLU
3	D	838	ARG
3	D	847	ASP
3	D	848	GLU
3	D	851	LEU
3	D	858	VAL
3	D	863	VAL
3	D	864	VAL
3	D	865	THR
3	D	867	ARG
3	D	879	ARG
3	D	880	ILE
3	D	888	GLU
3	D	893	GLU
3	D	897	TRP
3	D	901	GLN
3	D	902	LEU
3	D	904	VAL
3	D	910	SER
3	D	914	LEU
3	D	916	TYR
3	D	920	LEU
3	D	922	LEU
3	D	927	THR
3	D	944	THR
3	D	951	ILE
3	D	957	PRO
3	D	959	GLU
3	D	972	LEU
3	D	983	LEU
3	D	984	THR
3	D	985	ASP

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Mol	Chain	Res	Type
3	D	987	GLU
3	D	988	ARG
3	D	1001	GLU
3	D	1020	LEU
3	D	1029	ARG
3	D	1038	LEU
3	D	1042	ARG
3	D	1045	MET
3	D	1049	SER
3	D	1051	GLU
3	D	1052	THR
3	D	1058	ARG
3	D	1060	SER
3	D	1062	ARG
3	D	1065	LEU
3	D	1068	LEU
3	D	1079	LYS
3	D	1084	THR
3	D	1087	ARG
3	D	1093	TYR
3	D	1095	THR
3	D	1096	ARG
3	D	1109	GLU
3	D	1112	CYS
3	D	1114	THR
3	D	1127	GLU
3	D	1129	THR
3	D	1130	ARG
3	D	1135	ARG
3	D	1152	GLU
3	D	1159	ARG
3	D	1160	LEU
3	D	1161	GLU
3	D	1164	ARG
3	D	1174	LEU
3	D	1176	LYS
3	D	1182	GLU
3	D	1183	ILE
3	D	1188	VAL
3	D	1191	PRO
3	D	1195	GLN
3	D	1197	ARG

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Mol	Chain	Res	Type
3	D	1207	TYR
3	D	1208	ASP
3	D	1210	SER
3	D	1213	ARG
3	D	1236	LEU
3	D	1238	MET
3	D	1242	HIS
3	D	1243	THR
3	D	1251	ASP
3	D	1252	ILE
3	D	1258	ARG
3	D	1260	ILE
3	D	1264	GLU
3	D	1267	ARG
3	D	1269	LYS
3	D	1274	ILE
3	D	1280	VAL
3	D	1285	GLU
3	D	1287	GLU
3	D	1288	GLU
3	D	1290	LEU
3	D	1295	GLU
3	D	1299	PHE
3	D	1302	GLU
3	D	1307	LYS
3	D	1310	ARG
3	D	1314	LYS
3	D	1318	TYR
3	D	1331	ASP
3	D	1336	LEU
3	D	1337	GLU
3	D	1344	VAL
3	D	1345	GLU
3	D	1346	ARG
3	D	1348	LEU
3	D	1350	GLU
3	D	1359	GLN
3	D	1363	LEU
3	D	1378	TYR
3	D	1382	THR
3	D	1389	LEU
3	D	1403	LEU

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Mol	Chain	Res	Type
3	D	1406	ARG
3	D	1415	VAL
3	D	1419	PRO
3	D	1420	LEU
3	D	1424	VAL
3	D	1431	THR
3	D	1432	LYS
3	D	1435	LEU
3	D	1439	SER
3	D	1440	PHE
3	D	1444	THR
3	D	1455	LYS
3	D	1460	ILE
3	D	1463	LYS
3	D	1464	GLU
3	D	1465	ASN
3	D	1466	VAL
3	D	1470	ARG
3	D	1479	ASP
3	D	1483	PHE
3	D	1485	GLN
3	D	1488	ASP
3	D	1491	THR
3	D	1492	LEU
3	D	1496	GLU
4	E	12	MET
4	E	14	ASP
4	E	28	GLN
4	E	31	LEU
4	E	33	HIS
4	E	40	LEU
4	E	42	PRO
4	E	43	GLU
4	E	45	ARG
4	E	52	GLU
4	E	56	ASP
4	E	57	ASP
4	E	61	GLU
4	E	67	GLU
4	E	75	PHE
4	E	81	PRO
5	F	75	ILE

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Mol	Chain	Res	Type
5	F	78	SER
5	F	80	PRO
5	F	83	GLN
5	F	84	TYR
5	F	87	GLU
5	F	91	VAL
5	F	101	GLU
5	F	120	THR
5	F	125	ASP
5	F	126	LEU
5	F	135	ILE
5	F	136	LEU
5	F	142	ARG
5	F	149	GLU
5	F	150	THR
5	F	154	LYS
5	F	161	GLN
5	F	174	LEU
5	F	181	GLU
5	F	187	LEU
5	F	192	LEU
5	F	209	PHE
5	F	212	LEU
5	F	220	LEU
5	F	225	GLU
5	F	228	GLU
5	F	233	PHE
5	F	240	THR
5	F	249	ARG
5	F	280	GLN
5	F	282	LEU
5	F	295	MET
5	F	297	PRO
5	F	302	LYS
5	F	306	GLU
5	F	313	GLU
5	F	316	SER
5	F	328	PHE
5	F	329	TYR
5	F	331	ASP
5	F	340	SER
5	F	341	PRO

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Mol	Chain	Res	Type
5	F	342	VAL
5	F	343	ASP
5	F	347	GLN
5	F	349	LEU
5	F	355	GLU
5	F	360	LYS
5	F	362	SER
5	F	365	GLU
5	F	370	LYS
5	F	393	THR
5	F	395	GLU
5	F	398	ARG
5	F	399	GLN
5	F	403	LYS
5	F	405	LEU
5	F	410	TYR
5	F	420	ASP
1	K	2	LEU
1	K	5	LYS
1	K	9	PRO
1	K	14	ARG
1	K	15	THR
1	K	16	GLN
1	K	18	ARG
1	K	26	GLU
1	K	30	ARG
1	K	44	LEU
1	K	45	LEU
1	K	54	THR
1	K	60	ASP
1	K	62	LEU
1	K	66	SER
1	K	73	GLU
1	K	76	VAL
1	K	80	LEU
1	K	88	ARG
1	K	89	PHE
1	K	90	LEU
1	K	92	PRO
1	K	94	LEU
1	K	101	LEU
1	K	108	GLU

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Mol	Chain	Res	Type
1	K	112	ARG
1	K	113	ASP
1	K	115	LEU
1	K	119	ASP
1	K	121	GLU
1	K	127	LEU
1	K	133	GLU
1	K	138	LEU
1	K	140	MET
1	K	142	VAL
1	K	143	ARG
1	K	146	ARG
1	K	156	HIS
1	K	160	ASP
1	K	161	ARG
1	K	165	ILE
1	K	167	VAL
1	K	176	ARG
1	K	179	PHE
1	K	180	GLN
1	K	184	THR
1	K	186	LEU
1	K	189	ARG
1	K	190	THR
1	K	196	THR
1	K	198	ARG
1	K	201	THR
1	K	211	LEU
1	K	216	GLU
1	K	219	ARG
1	K	223	THR
1	K	227	ASN
1	K	229	GLN
1	L	1	MET
1	L	2	LEU
1	L	3	ASP
1	L	5	LYS
1	L	7	LYS
1	L	9	PRO
1	L	19	GLU
1	L	25	LEU
1	L	29	GLU

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Mol	Chain	Res	Type
1	L	36	LEU
1	L	38	ASN
1	L	41	ARG
1	L	47	SER
1	L	55	SER
1	L	62	LEU
1	L	65	PHE
1	L	73	GLU
1	L	81	ASN
1	L	84	GLU
1	L	88	ARG
1	L	89	PHE
1	L	95	GLN
1	L	101	LEU
1	L	110	LYS
1	L	112	ARG
1	L	113	ASP
1	L	121	GLU
1	L	124	ASN
1	L	134	GLU
1	L	137	ARG
1	L	140	MET
1	L	145	ASP
1	L	146	ARG
1	L	159	LYS
1	L	160	ASP
1	L	162	ILE
1	L	182	GLU
1	L	191	ASP
1	L	197	LEU
1	L	204	SER
1	L	206	THR
1	L	213	GLN
1	L	227	ASN
2	M	5	ARG
2	M	9	ILE
2	M	22	GLN
2	M	27	ARG
2	M	30	LEU
2	M	31	GLN
2	M	39	ARG
2	M	42	VAL

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Mol	Chain	Res	Type
2	M	48	PHE
2	M	49	ARG
2	M	51	THR
2	M	71	TYR
2	M	82	GLU
2	M	91	GLN
2	M	95	TYR
2	M	98	LEU
2	M	102	HIS
2	M	103	LYS
2	M	104	ASP
2	M	107	LEU
2	M	111	ASP
2	M	114	PHE
2	M	115	LEU
2	M	117	HIS
2	M	123	GLU
2	M	133	ASP
2	M	140	ILE
2	M	141	HIS
2	M	143	SER
2	M	147	TYR
2	M	152	PRO
2	M	157	ARG
2	M	158	TYR
2	M	163	ILE
2	M	168	ARG
2	M	175	GLU
2	M	178	PRO
2	M	182	VAL
2	M	193	LEU
2	M	198	ARG
2	M	205	GLU
2	M	209	ARG
2	M	221	LEU
2	M	222	MET
2	M	229	MET
2	M	235	LEU
2	M	237	ARG
2	M	238	LEU
2	M	239	PHE
2	M	241	LEU

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Mol	Chain	Res	Type
2	M	243	ARG
2	M	251	ASP
2	M	252	LYS
2	M	254	VAL
2	M	257	VAL
2	M	260	LEU
2	M	267	TYR
2	M	269	LEU
2	M	279	GLU
2	M	290	LEU
2	M	293	PHE
2	M	294	GLU
2	M	297	GLU
2	M	303	PHE
2	M	304	LEU
2	M	309	TYR
2	M	313	LEU
2	M	321	GLU
2	M	322	VAL
2	M	327	HIS
2	M	333	ILE
2	M	335	THR
2	M	348	LEU
2	M	358	ARG
2	M	359	MET
2	M	360	LEU
2	M	365	ASP
2	M	367	LEU
2	M	371	LYS
2	M	388	ARG
2	M	393	GLN
2	M	397	GLU
2	M	399	ASN
2	M	400	PRO
2	M	413	LEU
2	M	420	ARG
2	M	422	ARG
2	M	425	PHE
2	M	426	ASP
2	M	429	ASP
2	M	443	THR
2	M	451	LEU

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Mol	Chain	Res	Type
2	M	452	ILE
2	M	455	LEU
2	M	460	ARG
2	M	469	THR
2	M	479	VAL
2	M	496	ILE
2	M	503	LEU
2	M	507	ARG
2	M	508	ILE
2	M	524	VAL
2	M	530	GLU
2	M	540	PHE
2	M	563	ASN
2	M	564	MET
2	M	579	VAL
2	M	584	GLU
2	M	586	ARG
2	M	588	VAL
2	M	606	VAL
2	M	607	ASP
2	M	620	LEU
2	M	626	ARG
2	M	630	ARG
2	M	633	GLN
2	M	635	THR
2	M	637	LEU
2	M	639	GLN
2	M	640	ARG
2	M	644	VAL
2	M	645	VAL
2	M	648	ARG
2	M	650	ARG
2	M	654	LEU
2	M	663	ASN
2	M	668	LEU
2	M	672	VAL
2	M	680	ASP
2	M	685	GLU
2	M	689	VAL
2	M	699	PHE
2	M	705	ILE
2	M	713	ARG

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Mol	Chain	Res	Type
2	M	714	ASP
2	M	716	LYS
2	M	717	LEU
2	M	727	PRO
2	M	729	LEU
2	M	737	LEU
2	M	748	GLU
2	M	753	ASP
2	M	765	SER
2	M	772	ARG
2	M	775	ARG
2	M	780	GLU
2	M	785	VAL
2	M	790	LEU
2	M	791	ARG
2	M	799	ILE
2	M	802	ARG
2	M	807	ARG
2	M	821	GLU
2	M	822	VAL
2	M	824	ARG
2	M	834	GLN
2	M	835	VAL
2	M	837	ASP
2	M	839	LEU
2	M	841	ASN
2	M	853	LEU
2	M	860	HIS
2	M	862	PRO
2	M	870	ILE
2	M	881	ASN
2	M	884	GLN
2	M	886	LEU
2	M	900	ARG
2	M	907	ASP
2	M	910	LYS
2	M	911	GLU
2	M	925	TYR
2	M	934	PHE
2	M	937	ASP
2	M	950	LEU
2	M	953	VAL

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Mol	Chain	Res	Type
2	M	958	THR
2	M	960	GLU
2	M	963	LEU
2	M	968	LEU
2	M	975	TYR
2	M	981	GLU
2	M	988	VAL
2	M	998	TYR
2	M	1000	MET
2	M	1002	GLU
2	M	1008	ARG
2	M	1016	ILE
2	M	1019	GLN
2	M	1035	MET
2	M	1051	GLU
2	M	1054	THR
2	M	1058	ASP
2	M	1067	TYR
2	M	1074	GLU
2	M	1079	PRO
2	M	1092	LEU
2	M	1098	ASP
2	M	1099	VAL
2	M	1100	GLN
2	M	1103	ASP
2	M	1109	VAL
2	M	1111	ILE
2	M	1118	LYS
3	N	3	LYS
3	N	4	GLU
3	N	6	ARG
3	N	12	LEU
3	N	15	PRO
3	N	22	SER
3	N	31	THR
3	N	32	ILE
3	N	34	TYR
3	N	36	THR
3	N	55	ASP
3	N	56	TYR
3	N	66	GLN
3	N	68	PHE

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Mol	Chain	Res	Type
3	N	71	LYS
3	N	76	CYS
3	N	80	VAL
3	N	82	LYS
3	N	86	ARG
3	N	87	ARG
3	N	95	LEU
3	N	101	HIS
3	N	102	ILE
3	N	103	TRP
3	N	107	ASP
3	N	108	VAL
3	N	112	ILE
3	N	123	LEU
3	N	127	LEU
3	N	128	TYR
3	N	133	ILE
3	N	142	LEU
3	N	145	VAL
3	N	152	LEU
3	N	153	LEU
3	N	159	ARG
3	N	160	GLU
3	N	162	ARG
3	N	166	GLN
3	N	168	THR
3	N	170	PRO
3	N	171	LEU
3	N	185	VAL
3	N	199	LEU
3	N	200	ASP
3	N	206	ARG
3	N	208	PRO
3	N	210	ARG
3	N	389	GLU
3	N	393	ILE
3	N	395	VAL
3	N	408	GLU
3	N	413	ASP
3	N	419	ASP
3	N	421	LEU
3	N	427	VAL

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Mol	Chain	Res	Type
3	N	429	SER
3	N	430	ASP
3	N	432	TYR
3	N	441	ARG
3	N	442	ASN
3	N	444	VAL
3	N	449	SER
3	N	450	TYR
3	N	453	ASP
3	N	455	ARG
3	N	456	MET
3	N	459	GLU
3	N	481	MET
3	N	486	ARG
3	N	488	ARG
3	N	493	ARG
3	N	494	LYS
3	N	502	PHE
3	N	518	PRO
3	N	530	VAL
3	N	535	PHE
3	N	551	ASN
3	N	554	LEU
3	N	571	LYS
3	N	581	LEU
3	N	584	ASN
3	N	594	PRO
3	N	597	ASP
3	N	598	ARG
3	N	602	SER
3	N	605	ASP
3	N	613	ARG
3	N	624	ASP
3	N	625	TYR
3	N	626	SER
3	N	639	LEU
3	N	641	GLN
3	N	651	GLU
3	N	669	ASN
3	N	676	MET
3	N	688	TRP
3	N	695	ILE

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Mol	Chain	Res	Type
3	N	701	LEU
3	N	702	LEU
3	N	704	ARG
3	N	710	ARG
3	N	713	ILE
3	N	717	GLN
3	N	734	GLU
3	N	739	ASP
3	N	741	ASP
3	N	749	VAL
3	N	754	PHE
3	N	758	GLU
3	N	770	LEU
3	N	778	LEU
3	N	780	LYS
3	N	781	PRO
3	N	783	ARG
3	N	786	ILE
3	N	787	LEU
3	N	792	ILE
3	N	794	GLN
3	N	796	ARG
3	N	797	LYS
3	N	799	LYS
3	N	800	LYS
3	N	804	LEU
3	N	805	GLU
3	N	824	ASN
3	N	828	LYS
3	N	829	VAL
3	N	833	GLU
3	N	841	TYR
3	N	846	PRO
3	N	851	LEU
3	N	863	VAL
3	N	865	THR
3	N	874	GLU
3	N	876	SER
3	N	879	ARG
3	N	880	ILE
3	N	886	VAL
3	N	888	GLU

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Mol	Chain	Res	Type
3	N	892	ASP
3	N	897	TRP
3	N	939	PHE
3	N	951	ILE
3	N	952	ASP
3	N	959	GLU
3	N	964	LEU
3	N	965	GLU
3	N	972	LEU
3	N	984	THR
3	N	988	ARG
3	N	990	ASP
3	N	994	GLN
3	N	1005	GLN
3	N	1029	ARG
3	N	1032	PRO
3	N	1042	ARG
3	N	1052	THR
3	N	1058	ARG
3	N	1060	SER
3	N	1062	ARG
3	N	1065	LEU
3	N	1068	LEU
3	N	1071	PHE
3	N	1084	THR
3	N	1087	ARG
3	N	1093	TYR
3	N	1095	THR
3	N	1096	ARG
3	N	1109	GLU
3	N	1112	CYS
3	N	1116	ASN
3	N	1119	SER
3	N	1120	VAL
3	N	1127	GLU
3	N	1129	THR
3	N	1130	ARG
3	N	1131	SER
3	N	1133	ARG
3	N	1134	LEU
3	N	1144	LEU
3	N	1151	ARG

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Mol	Chain	Res	Type
3	N	1161	GLU
3	N	1166	LEU
3	N	1169	ASP
3	N	1182	GLU
3	N	1183	ILE
3	N	1195	GLN
3	N	1202	GLN
3	N	1207	TYR
3	N	1210	SER
3	N	1219	GLU
3	N	1231	GLU
3	N	1238	MET
3	N	1239	ARG
3	N	1243	THR
3	N	1252	ILE
3	N	1254	GLN
3	N	1262	LEU
3	N	1264	GLU
3	N	1267	ARG
3	N	1278	ASP
3	N	1280	VAL
3	N	1284	GLU
3	N	1285	GLU
3	N	1287	GLU
3	N	1299	PHE
3	N	1301	LYS
3	N	1305	LEU
3	N	1306	PRO
3	N	1307	LYS
3	N	1314	LYS
3	N	1331	ASP
3	N	1332	PRO
3	N	1337	GLU
3	N	1344	VAL
3	N	1345	GLU
3	N	1346	ARG
3	N	1348	LEU
3	N	1350	GLU
3	N	1353	GLN
3	N	1355	VAL
3	N	1359	GLN
3	N	1362	LYS

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Mol	Chain	Res	Type
3	N	1365	ASP
3	N	1372	VAL
3	N	1373	ARG
3	N	1376	MET
3	N	1382	THR
3	N	1388	ARG
3	N	1396	GLU
3	N	1401	GLU
3	N	1415	VAL
3	N	1418	LYS
3	N	1419	PRO
3	N	1420	LEU
3	N	1424	VAL
3	N	1432	LYS
3	N	1433	SER
3	N	1435	LEU
3	N	1439	SER
3	N	1440	PHE
3	N	1441	GLN
3	N	1442	ASN
3	N	1447	LEU
3	N	1452	ILE
3	N	1460	ILE
3	N	1463	LYS
3	N	1465	ASN
3	N	1466	VAL
3	N	1467	ILE
3	N	1478	SER
3	N	1481	VAL
3	N	1483	PHE
3	N	1485	GLN
3	N	1488	ASP
3	N	1492	LEU
3	N	1501	GLU
4	O	6	ILE
4	O	10	PHE
4	O	12	MET
4	O	14	ASP
4	O	15	SER
4	O	28	GLN
4	O	32	ARG
4	O	42	PRO

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Mol	Chain	Res	Type
4	O	43	GLU
4	O	45	ARG
4	O	47	LYS
4	O	51	LEU
4	O	54	LEU
4	O	57	ASP
4	O	59	ASN
4	O	61	GLU
4	O	66	LYS
4	O	69	LEU
4	O	84	ARG
4	O	85	LEU
4	O	86	GLN
4	O	89	MET
5	P	83	GLN
5	P	84	TYR
5	P	85	LEU
5	P	86	HIS
5	P	87	GLU
5	P	90	GLN
5	P	91	VAL
5	P	96	LEU
5	P	108	GLU
5	P	125	ASP
5	P	126	LEU
5	P	135	ILE
5	P	142	ARG
5	P	150	THR
5	P	151	LEU
5	P	161	GLN
5	P	174	LEU
5	P	176	ILE
5	P	185	GLN
5	P	187	LEU
5	P	207	LEU
5	P	214	GLN
5	P	271	LEU
5	P	277	GLN
5	P	280	GLN
5	P	295	MET
5	P	300	ASP
5	P	307	THR

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Mol	Chain	Res	Type
5	P	317	LEU
5	P	318	GLU
5	P	325	LYS
5	P	328	PHE
5	P	336	GLU
5	P	337	HIS
5	P	341	PRO
5	P	347	GLN
5	P	349	LEU
5	P	350	LEU
5	P	353	GLU
5	P	358	LEU
5	P	365	GLU
5	P	370	LYS
5	P	393	THR
5	P	396	ARG
5	P	399	GLN
5	P	403	LYS
5	P	419	ARG
5	P	420	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (174) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	81	ASN
1	A	124	ASN
1	A	139	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	227	ASN
1	B	81	ASN
1	B	95	GLN
1	B	139	ASN
1	B	163	ASN
1	B	212	ASN
1	B	213	GLN
1	B	227	ASN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN

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Mol	Chain	Res	Type
2	C	117	HIS
2	C	130	ASN
2	C	204	GLN
2	C	343	GLN
2	C	374	ASN
2	C	399	ASN
2	C	431	HIS
2	C	538	GLN
2	C	545	ASN
2	C	563	ASN
2	C	632	ASN
2	C	639	GLN
2	C	663	ASN
2	C	670	GLN
2	C	671	ASN
2	C	728	HIS
2	C	834	GLN
2	C	841	ASN
2	C	881	ASN
2	C	889	HIS
2	C	899	GLN
2	C	920	GLN
2	C	969	GLN
2	C	1019	GLN
2	C	1047	HIS
2	C	1107	ASN
3	D	33	ASN
3	D	66	GLN
3	D	151	GLN
3	D	166	GLN
3	D	189	GLN
3	D	462	GLN
3	D	507	ASN
3	D	529	GLN
3	D	549	ASN
3	D	727	GLN
3	D	756	GLN
3	D	768	ASN
3	D	994	GLN
3	D	1010	ASN
3	D	1014	ASN
3	D	1033	GLN

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Mol	Chain	Res	Type
3	D	1103	HIS
3	D	1116	ASN
3	D	1124	GLN
3	D	1184	GLN
3	D	1323	GLN
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1404	ASN
3	D	1465	ASN
4	E	28	GLN
4	E	37	ASN
5	F	83	GLN
5	F	90	GLN
5	F	161	GLN
5	F	217	ASN
5	F	218	GLN
5	F	269	ASN
5	F	277	GLN
5	F	312	GLN
5	F	337	HIS
1	K	63	HIS
1	K	81	ASN
1	K	128	HIS
1	K	156	HIS
1	K	163	ASN
1	K	212	ASN
1	K	213	GLN
1	K	227	ASN
1	L	16	GLN
1	L	38	ASN
1	L	95	GLN
1	L	124	ASN
1	L	128	HIS
1	L	139	ASN
1	L	163	ASN
1	L	188	GLN
1	L	212	ASN
2	M	22	GLN
2	M	91	GLN
2	M	99	GLN
2	M	102	HIS

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Mol	Chain	Res	Type
2	M	117	HIS
2	M	139	GLN
2	M	204	GLN
2	M	327	HIS
2	M	330	ASN
2	M	431	HIS
2	M	434	HIS
2	M	448	ASN
2	M	506	ASN
2	M	552	HIS
2	M	563	ASN
2	M	609	ASN
2	M	633	GLN
2	M	663	ASN
2	M	671	ASN
2	M	834	GLN
2	M	841	ASN
2	M	843	HIS
2	M	881	ASN
2	M	920	GLN
2	M	969	GLN
2	M	1018	GLN
2	M	1019	GLN
2	M	1050	GLN
2	M	1100	GLN
2	M	1107	ASN
3	N	151	GLN
3	N	166	GLN
3	N	549	ASN
3	N	551	ASN
3	N	560	GLN
3	N	569	ASN
3	N	616	GLN
3	N	636	GLN
3	N	669	ASN
3	N	703	ASN
3	N	717	GLN
3	N	727	GLN
3	N	748	HIS
3	N	756	GLN
3	N	768	ASN
3	N	824	ASN

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Mol	Chain	Res	Type
3	N	845	ASN
3	N	855	HIS
3	N	909	ASN
3	N	917	GLN
3	N	976	GLN
3	N	994	GLN
3	N	1033	GLN
3	N	1103	HIS
3	N	1116	ASN
3	N	1124	GLN
3	N	1202	GLN
3	N	1323	GLN
3	N	1333	HIS
3	N	1334	GLN
3	N	1353	GLN
3	N	1359	GLN
3	N	1374	GLN
3	N	1404	ASN
3	N	1441	GLN
3	N	1465	ASN
3	N	1485	GLN
4	O	29	GLN
4	O	59	ASN
4	O	86	GLN
5	P	83	GLN
5	P	90	GLN
5	P	186	HIS
5	P	269	ASN
5	P	337	HIS
5	P	399	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 568 ligands modelled in this entry, 566 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	$\# Z > 2$
7	RBT	C	8001	6	60,66,66	2.78	22 (36%)	86,101,101	1.68	15 (17%)
7	RBT	M	8002	-	60,66,66	2.73	22 (36%)	86,101,101	1.67	13 (15%)

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
7	RBT	C	8001	6	-	0/59/116/116	0/2/6/6
7	RBT	M	8002	-	-	0/59/116/116	0/2/6/6

All (44) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	8002	RBT	O2-C8	-3.58	1.28	1.37
7	C	8001	RBT	O2-C8	-2.73	1.30	1.37
7	C	8001	RBT	C3-C4	-2.12	1.42	1.48
7	M	8002	RBT	O7-C35	2.01	1.39	1.35
7	C	8001	RBT	C32-C22	2.09	1.58	1.53
7	M	8002	RBT	O7-C25	2.21	1.48	1.44
7	C	8001	RBT	O6-C37	2.22	1.50	1.42
7	M	8002	RBT	C9-C1	2.23	1.52	1.46
7	M	8002	RBT	C27-C28	2.38	1.59	1.50
7	M	8002	RBT	C18-C17	2.38	1.50	1.43
7	M	8002	RBT	C2-N1	2.43	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	8002	RBT	C32-C22	2.43	1.58	1.53
7	C	8001	RBT	O5-C12	2.43	1.56	1.43
7	C	8001	RBT	C27-C28	2.44	1.59	1.50
7	C	8001	RBT	O7-C35	2.45	1.40	1.35
7	C	8001	RBT	C9-C1	2.53	1.52	1.46
7	M	8002	RBT	O4-C11	2.70	1.26	1.21
7	M	8002	RBT	O5-C12	2.76	1.58	1.43
7	C	8001	RBT	O7-C25	2.83	1.49	1.44
7	C	8001	RBT	C24-C25	3.38	1.63	1.54
7	C	8001	RBT	O4-C11	3.41	1.27	1.21
7	M	8002	RBT	C24-C25	3.46	1.63	1.54
7	M	8002	RBT	C43-N4	3.68	1.54	1.47
7	C	8001	RBT	C41-N4	3.78	1.57	1.47
7	M	8002	RBT	C41-N4	3.82	1.57	1.47
7	M	8002	RBT	C42-N4	3.90	1.57	1.47
7	C	8001	RBT	C42-N4	4.00	1.57	1.47
7	C	8001	RBT	O5-C29	4.41	1.53	1.39
7	M	8002	RBT	O5-C29	4.52	1.53	1.39
7	C	8001	RBT	O1-C1	4.74	1.33	1.23
7	M	8002	RBT	C10-C5	4.82	1.52	1.41
7	M	8002	RBT	O1-C1	4.83	1.33	1.23
7	C	8001	RBT	C43-N4	4.87	1.56	1.47
7	M	8002	RBT	O6-C27	5.08	1.57	1.43
7	C	8001	RBT	O6-C27	5.11	1.58	1.43
7	C	8001	RBT	C10-C5	5.22	1.52	1.41
7	M	8002	RBT	C5-C6	5.48	1.48	1.39
7	C	8001	RBT	C5-C6	5.81	1.48	1.39
7	M	8002	RBT	C10-C9	6.42	1.55	1.41
7	C	8001	RBT	C8-C7	6.46	1.54	1.40
7	C	8001	RBT	C10-C9	6.72	1.56	1.41
7	M	8002	RBT	C8-C7	6.77	1.54	1.40
7	M	8002	RBT	C9-C8	8.10	1.57	1.41
7	C	8001	RBT	C9-C8	8.39	1.58	1.41

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	C	8001	RBT	O3-C6-C5	-3.79	111.08	114.25
7	M	8002	RBT	O3-C6-C5	-3.73	111.13	114.25
7	C	8001	RBT	C9-C10-C5	-2.89	116.06	119.96
7	M	8002	RBT	C31-C20-C19	-2.81	102.95	110.07
7	M	8002	RBT	C9-C10-C5	-2.78	116.21	119.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	M	8002	RBT	C34-C26-C25	-2.70	106.45	111.43
7	C	8001	RBT	C10-C4-C3	-2.56	122.27	123.58
7	C	8001	RBT	C31-C20-C19	-2.51	103.72	110.07
7	M	8002	RBT	C10-C4-C3	-2.43	122.34	123.58
7	C	8001	RBT	C34-C26-C25	-2.31	107.17	111.43
7	C	8001	RBT	C32-C22-C23	-2.07	106.98	111.28
7	C	8001	RBT	C37-O6-C27	2.03	118.27	112.98
7	M	8002	RBT	O11-C15-N1	2.04	126.74	122.85
7	C	8001	RBT	C2-C3-N2	2.24	132.13	127.95
7	C	8001	RBT	C25-O7-C35	2.49	121.62	117.72
7	C	8001	RBT	O11-C15-N1	2.54	127.68	122.85
7	C	8001	RBT	C20-C21-C22	2.57	120.92	114.90
7	M	8002	RBT	C25-O7-C35	2.63	121.84	117.72
7	M	8002	RBT	C24-C23-C22	2.72	120.58	115.38
7	M	8002	RBT	C20-C21-C22	2.85	121.59	114.90
7	M	8002	RBT	C2-C3-N2	3.02	133.58	127.95
7	C	8001	RBT	C24-C23-C22	3.09	121.28	115.38
7	M	8002	RBT	C2-N1-C15	3.31	132.92	123.19
7	C	8001	RBT	C2-N1-C15	3.67	133.97	123.19
7	C	8001	RBT	C41-C39-C38	6.49	122.20	112.65
7	M	8002	RBT	C41-C39-C38	6.57	122.32	112.65
7	C	8001	RBT	C42-C40-C38	6.73	122.55	112.65
7	M	8002	RBT	C42-C40-C38	6.75	122.58	112.65

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	C	8001	RBT	3	0
7	M	8002	RBT	3	0

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%)	-0.40	1 (0%) 92 92	29, 60, 84, 110	0
1	B	229/315 (72%)	-0.13	13 (5%) 24 25	44, 89, 114, 118	0
1	K	229/315 (72%)	-0.40	2 (0%) 84 85	33, 58, 89, 120	0
1	L	229/315 (72%)	-0.25	8 (3%) 44 47	49, 89, 109, 119	0
2	C	1119/1119 (100%)	-0.39	10 (0%) 84 85	14, 74, 102, 117	0
2	M	1119/1119 (100%)	-0.39	12 (1%) 80 81	19, 71, 103, 119	0
3	D	1392/1524 (91%)	-0.36	17 (1%) 79 80	19, 62, 107, 125	0
3	N	1392/1524 (91%)	-0.36	24 (1%) 70 72	23, 65, 107, 131	0
4	E	95/99 (95%)	-0.40	2 (2%) 64 66	41, 77, 107, 120	0
4	O	95/99 (95%)	-0.44	1 (1%) 80 81	33, 72, 94, 103	0
5	F	345/423 (81%)	-0.39	7 (2%) 65 67	46, 81, 104, 118	0
5	P	345/423 (81%)	-0.30	8 (2%) 61 63	53, 81, 108, 123	0
All	All	6818/7590 (89%)	-0.36	105 (1%) 74 75	14, 70, 105, 131	0

All (105) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	P	145	PRO	5.8
3	N	1243	THR	5.8
2	M	269	LEU	5.2
3	D	1244	GLY	4.8
3	D	1240	THR	4.8
1	B	130	ALA	4.7
1	L	6	LEU	4.5
3	N	802	ALA	4.5
1	L	135	GLY	4.4
3	N	1248	GLY	4.4
1	L	130	ALA	4.1

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Mol	Chain	Res	Type	RSRZ
2	C	813	VAL	4.1
3	D	1238	MET	4.0
3	N	1241	PHE	4.0
3	N	1249	ALA	4.0
3	N	1398	TRP	3.9
3	D	177	ALA	3.8
3	D	1245	GLY	3.7
5	P	357	ALA	3.7
2	C	351	LEU	3.7
1	B	62	LEU	3.6
1	L	109	VAL	3.5
5	P	163	LEU	3.5
3	D	247	GLU	3.4
5	F	144	ILE	3.4
3	D	803	GLY	3.4
1	B	92	PRO	3.3
2	M	101	ILE	3.3
3	D	1241	PHE	3.3
3	N	242	LEU	3.3
3	N	369	ALA	3.2
3	N	1244	GLY	3.2
2	M	211	LEU	3.2
5	P	147	LEU	3.2
1	B	129	ILE	3.2
1	B	82	LEU	3.1
1	B	118	ALA	3.1
1	A	1	MET	3.1
3	N	205	TYR	3.1
3	D	802	ALA	3.0
3	N	178	LEU	3.0
3	N	1240	THR	3.0
2	C	311	PHE	2.9
3	D	244	GLU	2.9
1	L	1	MET	2.9
1	B	58	ILE	2.9
2	M	207	LEU	2.9
3	N	1242	HIS	2.9
2	C	819	VAL	2.8
1	B	93	SER	2.8
2	M	100	LEU	2.8
3	N	186	VAL	2.8
5	F	386	VAL	2.7

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Mol	Chain	Res	Type	RSRZ
2	C	281	LEU	2.7
1	B	6	LEU	2.7
3	D	228	ALA	2.6
3	N	169	TYR	2.6
3	D	592	THR	2.6
1	L	82	LEU	2.6
2	C	38	LYS	2.6
2	C	153	ALA	2.5
2	C	180	GLY	2.5
3	N	381	ALA	2.5
3	N	379	ALA	2.5
2	M	186	VAL	2.5
2	C	333	ILE	2.5
3	D	1409	ALA	2.4
1	B	2	LEU	2.4
5	F	145	PRO	2.4
3	N	184	GLU	2.4
1	B	70	GLY	2.3
3	N	177	ALA	2.3
2	M	372	LEU	2.3
3	D	1243	THR	2.3
3	N	1246	VAL	2.3
3	N	1407	LEU	2.2
3	N	401	TYR	2.2
5	P	153	PRO	2.2
2	M	226	VAL	2.2
3	D	407	VAL	2.2
3	N	836	VAL	2.2
1	L	71	VAL	2.2
2	M	65	VAL	2.2
3	D	444	VAL	2.2
2	M	270	GLY	2.2
4	E	85	LEU	2.2
4	O	85	LEU	2.2
5	P	278	LEU	2.2
3	D	439	LEU	2.1
3	N	371	ILE	2.1
4	E	93	TYR	2.1
5	P	378	GLY	2.1
2	C	307	LEU	2.1
1	K	6	LEU	2.1
1	B	61	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
1	K	4	SER	2.0
5	F	147	LEU	2.0
5	F	139	ALA	2.0
5	P	90	GLN	2.0
2	M	217	LEU	2.0
1	L	11	PHE	2.0
5	F	388	ALA	2.0
5	F	130	VAL	2.0
1	B	78	ILE	2.0
2	M	152	PRO	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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
7	RBT	C	8001	61/61	0.97	0.19	2.48	25,37,42,48	0
6	MG	C	9121	1/1	0.99	0.15	1.83	43,43,43,43	0
7	RBT	M	8002	61/61	0.96	0.18	1.80	28,39,48,54	0
6	MG	K	9214	1/1	0.98	0.20	1.47	31,31,31,31	0
8	ZN	D	7112	1/1	0.99	0.13	1.30	72,72,72,72	0
6	MG	A	9001	1/1	0.98	0.18	1.15	26,26,26,26	0
6	MG	D	9002	1/1	0.98	0.16	0.85	29,29,29,29	0
8	ZN	N	7113	1/1	0.99	0.11	0.16	79,79,79,79	0
6	MG	N	9218	1/1	0.99	0.12	0.05	32,32,32,32	0
8	ZN	N	7059	1/1	1.00	0.12	0.04	83,83,83,83	0
6	MG	D	9008	1/1	0.99	0.13	-0.04	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	M	9220	1/1	0.96	0.13	-0.11	45,45,45,45	0
6	MG	D	9015	1/1	0.98	0.12	-0.28	37,37,37,37	0
6	MG	D	9042	1/1	0.97	0.12	-0.32	47,47,47,47	0
6	MG	F	9421	1/1	1.00	0.13	-0.32	30,30,30,30	0
6	MG	D	9021	1/1	0.99	0.12	-0.44	34,34,34,34	0
6	MG	K	9265	1/1	0.99	0.13	-0.47	37,37,37,37	0
6	MG	D	9123	1/1	0.98	0.14	-0.52	37,37,37,37	0
6	MG	D	9049	1/1	0.99	0.14	-0.53	31,31,31,31	0
6	MG	D	9036	1/1	0.98	0.13	-0.56	41,41,41,41	0
6	MG	C	9020	1/1	0.99	0.14	-0.58	28,28,28,28	0
6	MG	N	9215	1/1	0.99	0.10	-0.83	40,40,40,40	0
6	MG	N	9277	1/1	0.99	0.09	-0.88	37,37,37,37	0
6	MG	D	9172	1/1	0.98	0.10	-0.88	35,35,35,35	0
6	MG	D	9449	1/1	0.98	0.07	-0.92	29,29,29,29	0
6	MG	A	9024	1/1	0.99	0.10	-0.94	29,29,29,29	0
6	MG	D	9453	1/1	1.00	0.12	-0.94	31,31,31,31	0
6	MG	D	9069	1/1	1.00	0.12	-0.94	32,32,32,32	0
6	MG	C	9004	1/1	0.99	0.09	-0.95	30,30,30,30	0
6	MG	P	9275	1/1	0.99	0.09	-0.99	32,32,32,32	0
6	MG	K	9487	1/1	0.99	0.12	-1.04	36,36,36,36	0
6	MG	N	9335	1/1	0.99	0.10	-1.10	33,33,33,33	0
6	MG	D	9026	1/1	0.97	0.12	-1.14	37,37,37,37	0
6	MG	M	9323	1/1	0.99	0.10	-1.16	37,37,37,37	0
6	MG	B	9163	1/1	0.92	0.06	-1.21	44,44,44,44	0
6	MG	C	9025	1/1	0.99	0.10	-1.22	39,39,39,39	0
6	MG	C	9161	1/1	0.99	0.07	-1.25	40,40,40,40	0
6	MG	F	9053	1/1	0.99	0.10	-1.25	34,34,34,34	0
6	MG	C	9005	1/1	0.99	0.08	-1.25	31,31,31,31	0
6	MG	M	9312	1/1	0.97	0.10	-1.26	37,37,37,37	0
6	MG	N	9526	1/1	0.98	0.10	-1.26	30,30,30,30	0
6	MG	P	9536	1/1	0.99	0.07	-1.27	41,41,41,41	0
6	MG	C	9398	1/1	0.95	0.10	-1.31	44,44,44,44	0
6	MG	C	9011	1/1	0.99	0.10	-1.37	39,39,39,39	0
6	MG	N	9221	1/1	0.99	0.10	-1.39	30,30,30,30	0
6	MG	C	9144	1/1	0.99	0.09	-1.40	39,39,39,39	0
6	MG	D	9441	1/1	0.98	0.10	-1.41	46,46,46,46	0
6	MG	N	9475	1/1	0.99	0.07	-1.51	43,43,43,43	0
6	MG	N	9226	1/1	0.99	0.07	-1.53	30,30,30,30	0
6	MG	N	9263	1/1	0.99	0.08	-1.70	37,37,37,37	0
6	MG	N	9280	1/1	0.99	0.09	-1.73	34,34,34,34	0
6	MG	L	9272	1/1	0.99	0.10	-1.78	29,29,29,29	0
6	MG	C	9046	1/1	0.99	0.09	-1.80	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
8	ZN	D	7058	1/1	0.95	0.07	-1.81	100,100,100,100	0
6	MG	D	9181	1/1	0.99	0.06	-1.83	36,36,36,36	0
6	MG	B	9101	1/1	0.98	0.08	-1.86	40,40,40,40	0
6	MG	F	9465	1/1	0.99	0.06	-1.88	36,36,36,36	0
6	MG	M	9372	1/1	0.99	0.09	-1.96	47,47,47,47	0
6	MG	D	9105	1/1	0.99	0.07	-1.96	48,48,48,48	0
6	MG	K	9212	1/1	1.00	0.08	-2.00	33,33,33,33	0
6	MG	N	9207	1/1	0.98	0.10	-2.11	30,30,30,30	0
6	MG	D	9179	1/1	1.00	0.09	-2.24	30,30,30,30	0
6	MG	D	9037	1/1	1.00	0.08	-2.28	31,31,31,31	0
6	MG	C	9056	1/1	0.99	0.06	-2.39	34,34,34,34	0
6	MG	N	9509	1/1	0.99	0.11	-2.45	31,31,31,31	0
6	MG	C	9515	1/1	0.98	0.08	-2.46	41,41,41,41	0
6	MG	F	9407	1/1	0.99	0.07	-2.54	32,32,32,32	0
6	MG	D	9013	1/1	1.00	0.09	-2.56	34,34,34,34	0
6	MG	M	9478	1/1	0.98	0.06	-2.56	35,35,35,35	0
6	MG	D	9129	1/1	0.99	0.09	-2.67	38,38,38,38	0
6	MG	N	9248	1/1	0.99	0.06	-2.78	47,47,47,47	0
6	MG	F	9032	1/1	0.99	0.09	-3.07	32,32,32,32	0
6	MG	C	9414	1/1	0.97	0.07	-3.10	41,41,41,41	0
6	MG	N	9531	1/1	1.00	0.10	-3.10	38,38,38,38	0
6	MG	D	9147	1/1	0.96	0.09	-3.13	40,40,40,40	0
6	MG	C	9431	1/1	0.99	0.06	-3.14	42,42,42,42	0
6	MG	C	9420	1/1	0.99	0.07	-3.36	37,37,37,37	0
6	MG	C	9047	1/1	0.97	0.06	-3.48	47,47,47,47	0
6	MG	D	9017	1/1	0.99	0.07	-3.74	37,37,37,37	0
6	MG	N	9349	1/1	0.96	0.06	-3.81	37,37,37,37	0
6	MG	D	9012	1/1	0.98	0.06	-4.18	39,39,39,39	0
6	MG	D	9120	1/1	0.99	0.07	-4.76	34,34,34,34	0
6	MG	D	9003	1/1	0.98	0.06	-4.97	43,43,43,43	0
6	MG	D	9451	1/1	0.98	0.09	-5.59	37,37,37,37	0
6	MG	K	9217	1/1	0.98	0.06	-5.86	36,36,36,36	0
6	MG	N	9282	1/1	0.99	0.06	-6.71	38,38,38,38	0
6	MG	D	9055	1/1	0.98	0.09	-	51,51,51,51	0
6	MG	F	9437	1/1	0.98	0.09	-	47,47,47,47	0
6	MG	D	9087	1/1	1.00	0.09	-	27,27,27,27	0
6	MG	C	9156	1/1	0.97	0.12	-	43,43,43,43	0
6	MG	N	9303	1/1	0.99	0.12	-	35,35,35,35	0
6	MG	C	9098	1/1	0.99	0.09	-	52,52,52,52	0
6	MG	L	9530	1/1	0.99	0.10	-	58,58,58,58	0
6	MG	D	9452	1/1	0.99	0.10	-	32,32,32,32	0
6	MG	K	9367	1/1	0.98	0.09	-	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	C	9171	1/1	0.99	0.09	-	33,33,33,33	0
6	MG	D	9182	1/1	1.00	0.07	-	46,46,46,46	0
6	MG	D	9436	1/1	0.99	0.09	-	46,46,46,46	0
6	MG	A	9062	1/1	0.96	0.11	-	45,45,45,45	0
6	MG	N	9286	1/1	0.99	0.12	-	46,46,46,46	0
6	MG	N	9498	1/1	0.98	0.09	-	45,45,45,45	0
6	MG	A	9116	1/1	0.99	0.12	-	47,47,47,47	0
6	MG	C	9031	1/1	0.99	0.12	-	43,43,43,43	0
6	MG	N	9371	1/1	0.99	0.10	-	30,30,30,30	0
6	MG	F	9542	1/1	0.99	0.19	-	50,50,50,50	0
6	MG	L	9480	1/1	0.99	0.13	-	36,36,36,36	0
6	MG	N	9342	1/1	0.98	0.07	-	48,48,48,48	0
6	MG	M	9223	1/1	0.99	0.10	-	48,48,48,48	0
6	MG	A	9097	1/1	0.98	0.09	-	41,41,41,41	0
6	MG	A	9117	1/1	0.99	0.07	-	32,32,32,32	0
6	MG	K	9370	1/1	0.99	0.06	-	46,46,46,46	0
6	MG	K	9477	1/1	1.00	0.11	-	38,38,38,38	0
6	MG	D	9543	1/1	0.97	0.12	-	46,46,46,46	0
6	MG	M	9347	1/1	0.98	0.11	-	37,37,37,37	0
6	MG	C	9027	1/1	1.00	0.12	-	28,28,28,28	0
6	MG	P	9304	1/1	0.97	0.10	-	57,57,57,57	0
6	MG	M	9254	1/1	0.99	0.08	-	34,34,34,34	0
6	MG	N	9301	1/1	0.98	0.08	-	50,50,50,50	0
6	MG	D	9162	1/1	0.99	0.11	-	44,44,44,44	0
6	MG	L	9278	1/1	1.00	0.08	-	46,46,46,46	0
6	MG	E	9131	1/1	0.98	0.08	-	47,47,47,47	0
6	MG	C	9086	1/1	0.99	0.10	-	34,34,34,34	0
6	MG	D	9517	1/1	0.99	0.09	-	45,45,45,45	0
6	MG	N	9297	1/1	0.98	0.13	-	48,48,48,48	0
6	MG	D	9446	1/1	0.99	0.10	-	36,36,36,36	0
6	MG	B	9092	1/1	0.98	0.11	-	50,50,50,50	0
6	MG	A	9078	1/1	0.98	0.13	-	34,34,34,34	0
6	MG	M	9340	1/1	0.99	0.10	-	43,43,43,43	0
6	MG	M	9259	1/1	0.97	0.17	-	57,57,57,57	0
6	MG	L	9330	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	C	9457	1/1	0.98	0.10	-	40,40,40,40	0
6	MG	F	9054	1/1	0.99	0.07	-	37,37,37,37	0
6	MG	C	9422	1/1	0.99	0.13	-	41,41,41,41	0
6	MG	D	9155	1/1	0.96	0.12	-	56,56,56,56	0
6	MG	C	9455	1/1	0.97	0.12	-	61,61,61,61	0
6	MG	N	9244	1/1	0.97	0.08	-	37,37,37,37	0
6	MG	M	9336	1/1	0.99	0.10	-	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9463	1/1	0.99	0.11	-	32,32,32,32	0
6	MG	A	9514	1/1	0.96	0.12	-	42,42,42,42	0
6	MG	D	9122	1/1	0.99	0.10	-	31,31,31,31	0
6	MG	K	9553	1/1	0.98	0.09	-	50,50,50,50	0
6	MG	D	9077	1/1	0.99	0.10	-	32,32,32,32	0
6	MG	N	9356	1/1	0.99	0.14	-	29,29,29,29	0
6	MG	E	9151	1/1	0.98	0.05	-	48,48,48,48	0
6	MG	N	9327	1/1	0.97	0.11	-	54,54,54,54	0
6	MG	D	9174	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	D	9393	1/1	0.99	0.13	-	35,35,35,35	0
6	MG	D	9095	1/1	0.97	0.06	-	40,40,40,40	0
6	MG	F	9164	1/1	0.99	0.11	-	29,29,29,29	0
6	MG	A	9559	1/1	0.97	0.12	-	45,45,45,45	0
6	MG	D	9112	1/1	0.98	0.13	-	39,39,39,39	0
6	MG	D	9159	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	N	9246	1/1	0.97	0.13	-	49,49,49,49	0
6	MG	D	9100	1/1	0.99	0.07	-	31,31,31,31	0
6	MG	M	9251	1/1	0.99	0.13	-	33,33,33,33	0
6	MG	P	9502	1/1	0.99	0.07	-	43,43,43,43	0
6	MG	N	9307	1/1	0.99	0.09	-	38,38,38,38	0
6	MG	M	9481	1/1	0.99	0.09	-	37,37,37,37	0
6	MG	C	9546	1/1	0.98	0.06	-	49,49,49,49	0
6	MG	D	9203	1/1	0.99	0.09	-	46,46,46,46	0
6	MG	C	9023	1/1	0.97	0.09	-	44,44,44,44	0
6	MG	A	9139	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	C	9456	1/1	0.99	0.07	-	37,37,37,37	0
6	MG	K	9344	1/1	0.98	0.12	-	55,55,55,55	0
6	MG	C	9191	1/1	0.98	0.13	-	44,44,44,44	0
6	MG	N	9534	1/1	0.98	0.09	-	54,54,54,54	0
6	MG	M	9472	1/1	0.99	0.06	-	51,51,51,51	0
6	MG	D	9417	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	P	9296	1/1	0.99	0.07	-	42,42,42,42	0
6	MG	M	9219	1/1	0.98	0.10	-	39,39,39,39	0
6	MG	A	9050	1/1	0.97	0.10	-	41,41,41,41	0
6	MG	A	9394	1/1	0.99	0.10	-	46,46,46,46	0
6	MG	C	9141	1/1	0.98	0.12	-	45,45,45,45	0
6	MG	C	9028	1/1	0.99	0.07	-	41,41,41,41	0
6	MG	N	9499	1/1	0.98	0.08	-	38,38,38,38	0
6	MG	M	9285	1/1	0.98	0.13	-	43,43,43,43	0
6	MG	F	9045	1/1	0.99	0.10	-	40,40,40,40	0
6	MG	D	9016	1/1	0.99	0.07	-	38,38,38,38	0
6	MG	M	9540	1/1	0.98	0.16	-	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9110	1/1	0.98	0.13	-	38,38,38,38	0
6	MG	N	9508	1/1	0.97	0.11	-	41,41,41,41	0
6	MG	O	9231	1/1	1.00	0.15	-	41,41,41,41	0
6	MG	L	9346	1/1	0.97	0.14	-	52,52,52,52	0
6	MG	L	9311	1/1	0.98	0.07	-	33,33,33,33	0
6	MG	C	9083	1/1	0.98	0.11	-	48,48,48,48	0
6	MG	F	9048	1/1	0.96	0.16	-	50,50,50,50	0
6	MG	P	9353	1/1	0.99	0.11	-	44,44,44,44	0
6	MG	D	9057	1/1	0.98	0.11	-	33,33,33,33	0
6	MG	M	9216	1/1	0.99	0.12	-	44,44,44,44	0
6	MG	B	9512	1/1	0.99	0.20	-	53,53,53,53	0
6	MG	D	9405	1/1	0.99	0.10	-	38,38,38,38	0
6	MG	B	9427	1/1	0.98	0.11	-	42,42,42,42	0
6	MG	C	9157	1/1	0.98	0.16	-	44,44,44,44	0
6	MG	N	9266	1/1	0.98	0.08	-	36,36,36,36	0
6	MG	K	9264	1/1	1.00	0.09	-	36,36,36,36	0
6	MG	D	9403	1/1	0.99	0.16	-	30,30,30,30	0
6	MG	P	9240	1/1	0.99	0.11	-	38,38,38,38	0
6	MG	A	9440	1/1	0.99	0.10	-	53,53,53,53	0
6	MG	D	9418	1/1	0.99	0.08	-	47,47,47,47	0
6	MG	M	9224	1/1	0.99	0.06	-	38,38,38,38	0
6	MG	C	9170	1/1	0.99	0.10	-	36,36,36,36	0
6	MG	C	9185	1/1	0.99	0.18	-	60,60,60,60	0
6	MG	M	9380	1/1	1.00	0.08	-	32,32,32,32	0
6	MG	N	9506	1/1	0.98	0.10	-	56,56,56,56	0
6	MG	D	9128	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	N	9474	1/1	0.96	0.13	-	56,56,56,56	0
6	MG	N	9305	1/1	0.99	0.09	-	42,42,42,42	0
6	MG	M	9255	1/1	0.96	0.13	-	58,58,58,58	0
6	MG	L	9234	1/1	0.99	0.07	-	41,41,41,41	0
6	MG	N	9550	1/1	0.99	0.09	-	34,34,34,34	0
6	MG	M	9267	1/1	0.96	0.12	-	41,41,41,41	0
6	MG	N	9501	1/1	0.99	0.08	-	47,47,47,47	0
6	MG	M	9382	1/1	0.99	0.09	-	33,33,33,33	0
6	MG	N	9529	1/1	0.98	0.08	-	55,55,55,55	0
6	MG	D	9067	1/1	0.97	0.12	-	49,49,49,49	0
6	MG	M	9227	1/1	0.98	0.10	-	44,44,44,44	0
6	MG	C	9113	1/1	0.99	0.16	-	47,47,47,47	0
6	MG	B	9434	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	B	9150	1/1	0.98	0.10	-	43,43,43,43	0
6	MG	M	9366	1/1	0.99	0.10	-	41,41,41,41	0
6	MG	M	9298	1/1	0.98	0.12	-	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	M	9318	1/1	0.99	0.14	-	51,51,51,51	0
6	MG	M	9328	1/1	0.99	0.09	-	48,48,48,48	0
6	MG	M	9210	1/1	0.99	0.13	-	35,35,35,35	0
6	MG	C	9549	1/1	0.98	0.11	-	48,48,48,48	0
6	MG	N	9503	1/1	0.96	0.12	-	52,52,52,52	0
6	MG	M	9334	1/1	0.97	0.09	-	44,44,44,44	0
6	MG	D	9562	1/1	0.99	0.17	-	49,49,49,49	0
6	MG	N	9238	1/1	0.99	0.16	-	29,29,29,29	0
6	MG	C	9007	1/1	0.98	0.11	-	34,34,34,34	0
6	MG	D	9094	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	M	9241	1/1	1.00	0.09	-	35,35,35,35	0
6	MG	D	9401	1/1	0.98	0.12	-	40,40,40,40	0
6	MG	N	9533	1/1	0.99	0.12	-	33,33,33,33	0
6	MG	D	9149	1/1	1.00	0.13	-	42,42,42,42	0
6	MG	F	9089	1/1	0.99	0.10	-	48,48,48,48	0
6	MG	M	9283	1/1	0.98	0.14	-	35,35,35,35	0
6	MG	M	9361	1/1	0.99	0.10	-	51,51,51,51	0
6	MG	D	9058	1/1	0.99	0.11	-	41,41,41,41	0
6	MG	D	9202	1/1	0.98	0.18	-	61,61,61,61	0
6	MG	L	9299	1/1	1.00	0.07	-	36,36,36,36	0
6	MG	N	9358	1/1	0.97	0.12	-	48,48,48,48	0
6	MG	D	9445	1/1	0.98	0.13	-	48,48,48,48	0
6	MG	N	9387	1/1	0.99	0.07	-	28,28,28,28	0
6	MG	P	9558	1/1	0.98	0.09	-	44,44,44,44	0
6	MG	N	9230	1/1	0.97	0.09	-	40,40,40,40	0
6	MG	C	9444	1/1	0.99	0.09	-	40,40,40,40	0
6	MG	B	9450	1/1	0.99	0.08	-	46,46,46,46	0
6	MG	E	9467	1/1	0.97	0.12	-	52,52,52,52	0
6	MG	D	9075	1/1	0.99	0.11	-	39,39,39,39	0
6	MG	M	9325	1/1	0.97	0.10	-	44,44,44,44	0
6	MG	P	9541	1/1	0.98	0.10	-	44,44,44,44	0
6	MG	N	9528	1/1	0.99	0.10	-	40,40,40,40	0
6	MG	C	9201	1/1	0.99	0.08	-	45,45,45,45	0
6	MG	N	9365	1/1	0.98	0.12	-	43,43,43,43	0
6	MG	D	9143	1/1	1.00	0.14	-	35,35,35,35	0
6	MG	C	9521	1/1	0.99	0.12	-	45,45,45,45	0
6	MG	D	9466	1/1	0.98	0.10	-	57,57,57,57	0
6	MG	D	9168	1/1	0.98	0.06	-	38,38,38,38	0
6	MG	F	9547	1/1	1.00	0.09	-	52,52,52,52	0
6	MG	N	9381	1/1	0.97	0.07	-	35,35,35,35	0
6	MG	N	9256	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	A	9430	1/1	0.97	0.11	-	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	N	9314	1/1	0.98	0.11	-	38,38,38,38	0
6	MG	F	9135	1/1	0.99	0.14	-	42,42,42,42	0
6	MG	N	9379	1/1	0.99	0.06	-	56,56,56,56	0
6	MG	L	9300	1/1	0.99	0.07	-	58,58,58,58	0
6	MG	C	9088	1/1	0.99	0.12	-	36,36,36,36	0
6	MG	N	9235	1/1	0.95	0.12	-	63,63,63,63	0
6	MG	D	9038	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	M	9261	1/1	0.96	0.10	-	45,45,45,45	0
6	MG	C	9462	1/1	0.99	0.12	-	50,50,50,50	0
6	MG	N	9245	1/1	0.98	0.12	-	28,28,28,28	0
6	MG	M	9377	1/1	0.98	0.12	-	39,39,39,39	0
6	MG	M	9469	1/1	1.00	0.14	-	39,39,39,39	0
6	MG	B	9391	1/1	0.99	0.12	-	27,27,27,27	0
6	MG	D	9052	1/1	0.99	0.09	-	36,36,36,36	0
6	MG	F	9197	1/1	0.99	0.10	-	39,39,39,39	0
6	MG	N	9295	1/1	0.98	0.05	-	48,48,48,48	0
6	MG	B	9180	1/1	0.99	0.09	-	36,36,36,36	0
6	MG	C	9029	1/1	0.99	0.12	-	36,36,36,36	0
6	MG	N	9273	1/1	0.99	0.17	-	30,30,30,30	0
6	MG	N	9504	1/1	0.98	0.10	-	32,32,32,32	0
6	MG	F	9435	1/1	0.99	0.08	-	40,40,40,40	0
6	MG	N	9376	1/1	0.99	0.13	-	31,31,31,31	0
6	MG	D	9158	1/1	0.99	0.08	-	31,31,31,31	0
6	MG	N	9490	1/1	0.98	0.12	-	41,41,41,41	0
6	MG	N	9320	1/1	0.99	0.11	-	41,41,41,41	0
6	MG	D	9548	1/1	0.97	0.12	-	51,51,51,51	0
6	MG	E	9186	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	D	9154	1/1	0.99	0.12	-	31,31,31,31	0
6	MG	O	9359	1/1	0.96	0.08	-	57,57,57,57	0
6	MG	D	9169	1/1	0.99	0.12	-	45,45,45,45	0
6	MG	L	9471	1/1	0.99	0.10	-	33,33,33,33	0
6	MG	M	9384	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	P	9333	1/1	0.99	0.07	-	28,28,28,28	0
6	MG	D	9189	1/1	0.99	0.10	-	34,34,34,34	0
6	MG	D	9423	1/1	0.97	0.09	-	44,44,44,44	0
6	MG	M	9287	1/1	0.99	0.08	-	36,36,36,36	0
6	MG	P	9322	1/1	0.96	0.12	-	43,43,43,43	0
6	MG	L	9505	1/1	0.98	0.10	-	58,58,58,58	0
6	MG	D	9510	1/1	1.00	0.12	-	51,51,51,51	0
6	MG	D	9043	1/1	1.00	0.11	-	28,28,28,28	0
6	MG	L	9258	1/1	0.94	0.10	-	47,47,47,47	0
6	MG	N	9527	1/1	1.00	0.14	-	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9424	1/1	0.98	0.14	-	50,50,50,50	0
6	MG	B	9103	1/1	0.99	0.09	-	37,37,37,37	0
6	MG	N	9313	1/1	0.98	0.09	-	39,39,39,39	0
6	MG	C	9439	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	N	9368	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	P	9326	1/1	0.99	0.08	-	39,39,39,39	0
6	MG	M	9321	1/1	0.99	0.13	-	40,40,40,40	0
6	MG	L	9260	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	D	9519	1/1	0.99	0.12	-	55,55,55,55	0
6	MG	A	9560	1/1	0.99	0.13	-	49,49,49,49	0
6	MG	C	9044	1/1	0.99	0.08	-	37,37,37,37	0
6	MG	D	9084	1/1	0.96	0.10	-	47,47,47,47	0
6	MG	M	9383	1/1	0.96	0.09	-	46,46,46,46	0
6	MG	C	9196	1/1	0.99	0.13	-	30,30,30,30	0
6	MG	C	9205	1/1	0.99	0.12	-	53,53,53,53	0
6	MG	F	9206	1/1	0.98	0.12	-	33,33,33,33	0
6	MG	M	9331	1/1	1.00	0.08	-	49,49,49,49	0
6	MG	C	9127	1/1	1.00	0.10	-	41,41,41,41	0
6	MG	N	9242	1/1	0.98	0.12	-	36,36,36,36	0
6	MG	A	9145	1/1	0.97	0.11	-	45,45,45,45	0
6	MG	B	9146	1/1	0.99	0.09	-	44,44,44,44	0
6	MG	E	9511	1/1	1.00	0.12	-	42,42,42,42	0
6	MG	D	9397	1/1	0.98	0.12	-	31,31,31,31	0
6	MG	N	9319	1/1	0.98	0.11	-	41,41,41,41	0
6	MG	E	9115	1/1	0.99	0.08	-	39,39,39,39	0
6	MG	C	9124	1/1	0.98	0.08	-	33,33,33,33	0
6	MG	D	9175	1/1	0.99	0.09	-	40,40,40,40	0
6	MG	F	9010	1/1	0.97	0.17	-	57,57,57,57	0
6	MG	N	9486	1/1	0.97	0.09	-	44,44,44,44	0
6	MG	P	9329	1/1	0.99	0.07	-	46,46,46,46	0
6	MG	M	9233	1/1	0.98	0.15	-	38,38,38,38	0
6	MG	D	9523	1/1	0.97	0.11	-	41,41,41,41	0
6	MG	C	9415	1/1	0.99	0.11	-	38,38,38,38	0
6	MG	B	9395	1/1	0.98	0.11	-	56,56,56,56	0
6	MG	N	9208	1/1	0.97	0.12	-	35,35,35,35	0
6	MG	N	9375	1/1	0.99	0.10	-	43,43,43,43	0
6	MG	A	9178	1/1	0.99	0.09	-	28,28,28,28	0
6	MG	P	9317	1/1	0.98	0.18	-	53,53,53,53	0
6	MG	A	9411	1/1	0.99	0.10	-	31,31,31,31	0
6	MG	K	9257	1/1	0.96	0.12	-	57,57,57,57	0
6	MG	D	9561	1/1	0.99	0.06	-	38,38,38,38	0
6	MG	A	9194	1/1	0.99	0.09	-	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9416	1/1	0.99	0.09	-	48,48,48,48	0
6	MG	D	9136	1/1	0.99	0.10	-	41,41,41,41	0
6	MG	D	9073	1/1	0.99	0.15	-	38,38,38,38	0
6	MG	N	9289	1/1	0.99	0.09	-	35,35,35,35	0
6	MG	N	9225	1/1	0.99	0.08	-	40,40,40,40	0
6	MG	D	9166	1/1	0.99	0.08	-	49,49,49,49	0
6	MG	B	9389	1/1	0.98	0.10	-	37,37,37,37	0
6	MG	N	9352	1/1	0.99	0.05	-	44,44,44,44	0
6	MG	F	9072	1/1	0.99	0.07	-	40,40,40,40	0
6	MG	A	9107	1/1	0.97	0.07	-	40,40,40,40	0
6	MG	C	9074	1/1	0.99	0.13	-	30,30,30,30	0
6	MG	O	9355	1/1	0.99	0.14	-	36,36,36,36	0
6	MG	D	9443	1/1	0.99	0.07	-	47,47,47,47	0
6	MG	C	9071	1/1	0.99	0.13	-	39,39,39,39	0
6	MG	D	9039	1/1	0.98	0.11	-	40,40,40,40	0
6	MG	B	9137	1/1	0.99	0.09	-	35,35,35,35	0
6	MG	D	9520	1/1	0.96	0.14	-	46,46,46,46	0
6	MG	D	9059	1/1	0.98	0.10	-	40,40,40,40	0
6	MG	E	9187	1/1	0.99	0.12	-	39,39,39,39	0
6	MG	N	9491	1/1	1.00	0.11	-	43,43,43,43	0
6	MG	A	9018	1/1	0.99	0.14	-	31,31,31,31	0
6	MG	D	9065	1/1	0.99	0.14	-	44,44,44,44	0
6	MG	D	9454	1/1	0.99	0.08	-	42,42,42,42	0
6	MG	D	9518	1/1	0.97	0.11	-	55,55,55,55	0
6	MG	E	9438	1/1	0.99	0.10	-	38,38,38,38	0
6	MG	P	9274	1/1	0.99	0.11	-	45,45,45,45	0
6	MG	C	9106	1/1	1.00	0.09	-	37,37,37,37	0
6	MG	D	9447	1/1	0.98	0.10	-	50,50,50,50	0
6	MG	K	9363	1/1	0.97	0.09	-	47,47,47,47	0
6	MG	M	9364	1/1	0.94	0.08	-	37,37,37,37	0
6	MG	C	9545	1/1	0.99	0.10	-	45,45,45,45	0
6	MG	C	9428	1/1	0.99	0.12	-	42,42,42,42	0
6	MG	C	9081	1/1	0.97	0.13	-	52,52,52,52	0
6	MG	D	9090	1/1	0.99	0.11	-	48,48,48,48	0
6	MG	F	9035	1/1	0.99	0.10	-	40,40,40,40	0
6	MG	F	9153	1/1	0.98	0.07	-	39,39,39,39	0
6	MG	D	9544	1/1	0.99	0.11	-	49,49,49,49	0
6	MG	L	9271	1/1	0.99	0.09	-	39,39,39,39	0
6	MG	B	9033	1/1	0.99	0.10	-	44,44,44,44	0
6	MG	F	9429	1/1	0.98	0.12	-	57,57,57,57	0
6	MG	N	9316	1/1	0.99	0.09	-	32,32,32,32	0
6	MG	N	9354	1/1	0.95	0.07	-	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	F	9030	1/1	1.00	0.11	-	36,36,36,36	0
6	MG	N	9476	1/1	0.99	0.06	-	44,44,44,44	0
6	MG	D	9099	1/1	0.98	0.07	-	38,38,38,38	0
6	MG	C	9063	1/1	0.98	0.10	-	32,32,32,32	0
6	MG	D	9516	1/1	0.98	0.05	-	51,51,51,51	0
6	MG	D	9140	1/1	0.98	0.13	-	43,43,43,43	0
6	MG	N	9470	1/1	1.00	0.15	-	27,27,27,27	0
6	MG	C	9014	1/1	0.98	0.14	-	45,45,45,45	0
6	MG	D	9119	1/1	0.99	0.09	-	44,44,44,44	0
6	MG	N	9281	1/1	0.98	0.09	-	50,50,50,50	0
6	MG	L	9249	1/1	0.97	0.07	-	51,51,51,51	0
6	MG	A	9102	1/1	0.98	0.09	-	38,38,38,38	0
6	MG	M	9268	1/1	0.99	0.11	-	37,37,37,37	0
6	MG	M	9385	1/1	0.99	0.10	-	29,29,29,29	0
6	MG	C	9130	1/1	0.99	0.14	-	42,42,42,42	0
6	MG	L	9345	1/1	0.99	0.12	-	42,42,42,42	0
6	MG	D	9460	1/1	0.99	0.14	-	38,38,38,38	0
6	MG	C	9190	1/1	0.96	0.07	-	40,40,40,40	0
6	MG	F	9513	1/1	0.99	0.14	-	43,43,43,43	0
6	MG	D	9096	1/1	0.97	0.14	-	43,43,43,43	0
6	MG	N	9538	1/1	0.92	0.10	-	42,42,42,42	0
6	MG	N	9291	1/1	0.99	0.15	-	55,55,55,55	0
6	MG	M	9348	1/1	0.97	0.11	-	63,63,63,63	0
6	MG	O	9209	1/1	0.97	0.11	-	37,37,37,37	0
6	MG	D	9060	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	N	9310	1/1	0.98	0.08	-	36,36,36,36	0
6	MG	D	9091	1/1	0.99	0.14	-	47,47,47,47	0
6	MG	F	9525	1/1	0.99	0.08	-	54,54,54,54	0
6	MG	N	9555	1/1	0.97	0.11	-	56,56,56,56	0
6	MG	D	9425	1/1	0.99	0.09	-	44,44,44,44	0
6	MG	C	9396	1/1	0.98	0.14	-	57,57,57,57	0
6	MG	M	9290	1/1	0.98	0.12	-	48,48,48,48	0
6	MG	N	9247	1/1	0.97	0.08	-	29,29,29,29	0
6	MG	N	9270	1/1	0.99	0.13	-	47,47,47,47	0
6	MG	N	9308	1/1	1.00	0.12	-	31,31,31,31	0
6	MG	M	9489	1/1	0.99	0.09	-	43,43,43,43	0
6	MG	O	9337	1/1	1.00	0.08	-	34,34,34,34	0
6	MG	A	9126	1/1	0.99	0.10	-	39,39,39,39	0
6	MG	N	9324	1/1	0.99	0.08	-	39,39,39,39	0
6	MG	N	9468	1/1	1.00	0.11	-	35,35,35,35	0
6	MG	C	9524	1/1	0.99	0.08	-	45,45,45,45	0
6	MG	D	9125	1/1	0.99	0.10	-	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	A	9200	1/1	0.99	0.10	-	49,49,49,49	0
6	MG	N	9360	1/1	1.00	0.05	-	39,39,39,39	0
6	MG	N	9262	1/1	0.98	0.14	-	49,49,49,49	0
6	MG	C	9193	1/1	0.99	0.09	-	37,37,37,37	0
6	MG	M	9373	1/1	0.99	0.12	-	38,38,38,38	0
6	MG	D	9432	1/1	0.98	0.10	-	47,47,47,47	0
6	MG	E	9402	1/1	0.99	0.12	-	39,39,39,39	0
6	MG	M	9497	1/1	0.99	0.12	-	43,43,43,43	0
6	MG	L	9479	1/1	0.99	0.10	-	48,48,48,48	0
6	MG	M	9211	1/1	0.98	0.10	-	28,28,28,28	0
6	MG	D	9019	1/1	0.98	0.15	-	35,35,35,35	0
6	MG	C	9068	1/1	0.95	0.12	-	37,37,37,37	0
6	MG	F	9133	1/1	0.99	0.10	-	42,42,42,42	0
6	MG	D	9111	1/1	0.96	0.09	-	43,43,43,43	0
6	MG	K	9493	1/1	0.99	0.09	-	38,38,38,38	0
6	MG	D	9066	1/1	0.97	0.11	-	49,49,49,49	0
6	MG	F	9410	1/1	0.94	0.12	-	47,47,47,47	0
6	MG	M	9276	1/1	0.98	0.14	-	54,54,54,54	0
6	MG	B	9199	1/1	0.95	0.10	-	52,52,52,52	0
6	MG	B	9419	1/1	0.98	0.11	-	46,46,46,46	0
6	MG	B	9079	1/1	0.98	0.11	-	28,28,28,28	0
6	MG	M	9485	1/1	0.98	0.06	-	42,42,42,42	0
6	MG	D	9041	1/1	0.98	0.10	-	32,32,32,32	0
6	MG	D	9070	1/1	0.99	0.10	-	46,46,46,46	0
6	MG	N	9228	1/1	0.98	0.08	-	49,49,49,49	0
6	MG	C	9408	1/1	0.99	0.12	-	38,38,38,38	0
6	MG	K	9492	1/1	0.99	0.10	-	40,40,40,40	0
6	MG	A	9173	1/1	0.99	0.10	-	41,41,41,41	0
6	MG	N	9343	1/1	0.99	0.09	-	45,45,45,45	0
6	MG	N	9237	1/1	0.99	0.14	-	40,40,40,40	0
6	MG	L	9483	1/1	0.97	0.15	-	44,44,44,44	0
6	MG	B	9442	1/1	0.99	0.12	-	47,47,47,47	0
6	MG	M	9293	1/1	0.98	0.11	-	43,43,43,43	0
6	MG	N	9386	1/1	0.99	0.08	-	46,46,46,46	0
6	MG	A	9522	1/1	0.98	0.11	-	57,57,57,57	0
6	MG	L	9374	1/1	0.99	0.09	-	47,47,47,47	0
6	MG	D	9459	1/1	0.99	0.10	-	33,33,33,33	0
6	MG	D	9009	1/1	0.98	0.12	-	53,53,53,53	0
6	MG	D	9082	1/1	0.99	0.11	-	30,30,30,30	0
6	MG	P	9284	1/1	0.97	0.10	-	51,51,51,51	0
6	MG	C	9177	1/1	0.96	0.09	-	40,40,40,40	0
6	MG	M	9557	1/1	0.98	0.09	-	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	N	9554	1/1	0.97	0.11	-	45,45,45,45	0
6	MG	C	9458	1/1	0.98	0.09	-	38,38,38,38	0
6	MG	N	9253	1/1	0.96	0.08	-	39,39,39,39	0
6	MG	L	9213	1/1	0.98	0.23	-	49,49,49,49	0
6	MG	N	9357	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	C	9076	1/1	0.98	0.11	-	37,37,37,37	0
6	MG	D	9152	1/1	0.97	0.11	-	32,32,32,32	0
6	MG	D	9142	1/1	0.99	0.11	-	40,40,40,40	0
6	MG	M	9252	1/1	0.99	0.12	-	37,37,37,37	0
6	MG	D	9104	1/1	0.98	0.09	-	35,35,35,35	0
6	MG	D	9433	1/1	0.99	0.12	-	46,46,46,46	0
6	MG	D	9051	1/1	0.99	0.07	-	36,36,36,36	0
6	MG	N	9315	1/1	0.98	0.11	-	41,41,41,41	0
6	MG	L	9532	1/1	0.98	0.08	-	51,51,51,51	0
6	MG	A	9413	1/1	0.96	0.10	-	46,46,46,46	0
6	MG	D	9132	1/1	0.99	0.10	-	33,33,33,33	0
6	MG	K	9507	1/1	0.99	0.14	-	45,45,45,45	0
6	MG	N	9341	1/1	0.98	0.13	-	38,38,38,38	0
6	MG	M	9473	1/1	0.97	0.11	-	42,42,42,42	0
6	MG	D	9006	1/1	1.00	0.14	-	30,30,30,30	0
6	MG	P	9239	1/1	1.00	0.11	-	33,33,33,33	0
6	MG	D	9034	1/1	0.98	0.16	-	37,37,37,37	0
6	MG	O	9362	1/1	0.98	0.04	-	49,49,49,49	0
6	MG	K	9496	1/1	0.99	0.09	-	42,42,42,42	0
6	MG	N	9294	1/1	0.99	0.07	-	49,49,49,49	0
6	MG	B	9148	1/1	0.98	0.15	-	54,54,54,54	0
6	MG	M	9369	1/1	0.99	0.09	-	35,35,35,35	0
6	MG	N	9302	1/1	1.00	0.14	-	48,48,48,48	0
6	MG	M	9222	1/1	0.99	0.09	-	33,33,33,33	0
6	MG	L	9236	1/1	0.99	0.08	-	41,41,41,41	0
6	MG	C	9204	1/1	0.99	0.12	-	41,41,41,41	0
6	MG	C	9160	1/1	1.00	0.12	-	46,46,46,46	0
6	MG	N	9551	1/1	0.97	0.08	-	40,40,40,40	0
6	MG	D	9138	1/1	0.99	0.12	-	38,38,38,38	0
6	MG	N	9338	1/1	0.98	0.12	-	42,42,42,42	0
6	MG	K	9279	1/1	0.99	0.11	-	36,36,36,36	0
6	MG	P	9388	1/1	0.99	0.08	-	45,45,45,45	0
6	MG	A	9404	1/1	1.00	0.16	-	55,55,55,55	0
6	MG	E	9184	1/1	0.97	0.16	-	48,48,48,48	0
6	MG	D	9134	1/1	0.99	0.10	-	40,40,40,40	0
6	MG	K	9484	1/1	0.98	0.11	-	30,30,30,30	0
6	MG	C	9183	1/1	0.98	0.16	-	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	M	9535	1/1	0.99	0.12	-	40,40,40,40	0
6	MG	M	9332	1/1	0.97	0.13	-	54,54,54,54	0
6	MG	M	9537	1/1	0.99	0.13	-	38,38,38,38	0
6	MG	D	9108	1/1	0.98	0.11	-	51,51,51,51	0
6	MG	D	9118	1/1	0.99	0.12	-	34,34,34,34	0
6	MG	D	9085	1/1	0.99	0.10	-	32,32,32,32	0
6	MG	F	9167	1/1	0.98	0.12	-	59,59,59,59	0
6	MG	M	9488	1/1	0.98	0.12	-	42,42,42,42	0
6	MG	K	9351	1/1	0.97	0.09	-	37,37,37,37	0
6	MG	C	9390	1/1	1.00	0.12	-	30,30,30,30	0
6	MG	B	9176	1/1	1.00	0.09	-	41,41,41,41	0
6	MG	A	9109	1/1	0.98	0.09	-	33,33,33,33	0
6	MG	D	9061	1/1	0.99	0.11	-	35,35,35,35	0
6	MG	M	9350	1/1	0.98	0.09	-	37,37,37,37	0
6	MG	D	9195	1/1	1.00	0.08	-	32,32,32,32	0
6	MG	P	9269	1/1	0.99	0.09	-	41,41,41,41	0
6	MG	L	9378	1/1	0.98	0.14	-	47,47,47,47	0
6	MG	F	9448	1/1	0.98	0.10	-	38,38,38,38	0
6	MG	N	9482	1/1	0.99	0.14	-	52,52,52,52	0
6	MG	D	9464	1/1	0.99	0.12	-	38,38,38,38	0
6	MG	C	9426	1/1	0.99	0.06	-	47,47,47,47	0
6	MG	M	9500	1/1	0.99	0.09	-	46,46,46,46	0
6	MG	P	9494	1/1	0.99	0.10	-	50,50,50,50	0
6	MG	N	9552	1/1	0.99	0.11	-	46,46,46,46	0
6	MG	N	9292	1/1	0.98	0.16	-	52,52,52,52	0
6	MG	D	9114	1/1	0.99	0.10	-	32,32,32,32	0
6	MG	C	9198	1/1	0.99	0.11	-	36,36,36,36	0
6	MG	M	9309	1/1	0.98	0.15	-	35,35,35,35	0
6	MG	C	9406	1/1	0.98	0.10	-	47,47,47,47	0
6	MG	N	9539	1/1	0.97	0.10	-	57,57,57,57	0
6	MG	C	9192	1/1	0.97	0.10	-	55,55,55,55	0
6	MG	L	9556	1/1	0.98	0.09	-	58,58,58,58	0
6	MG	D	9392	1/1	0.99	0.09	-	46,46,46,46	0
6	MG	N	9250	1/1	0.95	0.16	-	61,61,61,61	0
6	MG	A	9412	1/1	0.99	0.12	-	33,33,33,33	0
6	MG	B	9040	1/1	0.99	0.16	-	29,29,29,29	0
6	MG	M	9229	1/1	0.98	0.09	-	35,35,35,35	0
6	MG	C	9399	1/1	0.96	0.10	-	43,43,43,43	0
6	MG	D	9093	1/1	0.99	0.11	-	34,34,34,34	0
6	MG	N	9306	1/1	0.99	0.13	-	30,30,30,30	0
6	MG	N	9339	1/1	0.99	0.11	-	34,34,34,34	0
6	MG	C	9400	1/1	0.99	0.12	-	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9064	1/1	0.99	0.11	-	41,41,41,41	0
6	MG	D	9188	1/1	0.99	0.09	-	37,37,37,37	0
6	MG	K	9495	1/1	0.99	0.10	-	35,35,35,35	0
6	MG	M	9243	1/1	0.98	0.11	-	45,45,45,45	0
6	MG	F	9461	1/1	0.97	0.12	-	52,52,52,52	0
6	MG	F	9080	1/1	0.99	0.12	-	30,30,30,30	0
6	MG	N	9232	1/1	0.98	0.10	-	33,33,33,33	0
6	MG	C	9022	1/1	0.99	0.12	-	28,28,28,28	0
6	MG	A	9165	1/1	0.98	0.11	-	65,65,65,65	0
6	MG	C	9409	1/1	0.99	0.12	-	49,49,49,49	0
6	MG	N	9288	1/1	0.98	0.10	-	33,33,33,33	0

6.5 Other polymers [i](#)

There are no such residues in this entry.