



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 11:54 AM UTC

PDB ID : 1SMY / pdb_00001smy
Title : Structural basis for transcription regulation by alarmone ppGpp
Authors : Artsimovitch, I.; Patlan, V.; Sekine, S.; Vassylyeva, M.N.; Hosaka, T.; Ochi, K.; Yokoyama, S.; Vassylyev, D.G.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2004-03-10
Resolution : 2.70 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

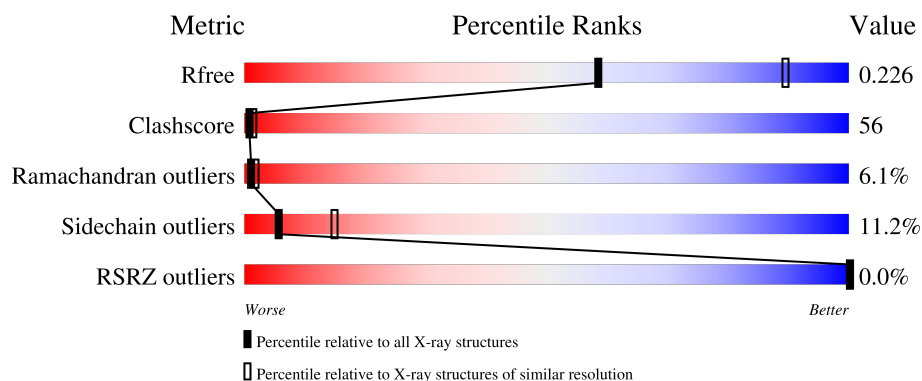
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	3538 (2.70-2.70)
Clashscore	190562	3843 (2.70-2.70)
Ramachandran outliers	187476	3778 (2.70-2.70)
Sidechain outliers	187428	3778 (2.70-2.70)
RSRZ outliers	180081	3538 (2.70-2.70)

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

Mol	Chain	Length	Quality of chain
1	A	315	20% 45% 7% 27%
1	B	315	21% 46% 6% 27%
1	K	315	21% 46% 5% 27%
1	L	315	22% 47% . 27%

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Mol	Chain	Length	Quality of chain
2	C	1119	
2	M	1119	
3	D	1524	
3	N	1524	
4	E	99	
4	O	99	
5	F	423	
5	P	423	

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 63021 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase alpha chain.

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

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

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

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

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

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

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

- Molecule 5 is a protein called principal sigma factor.

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

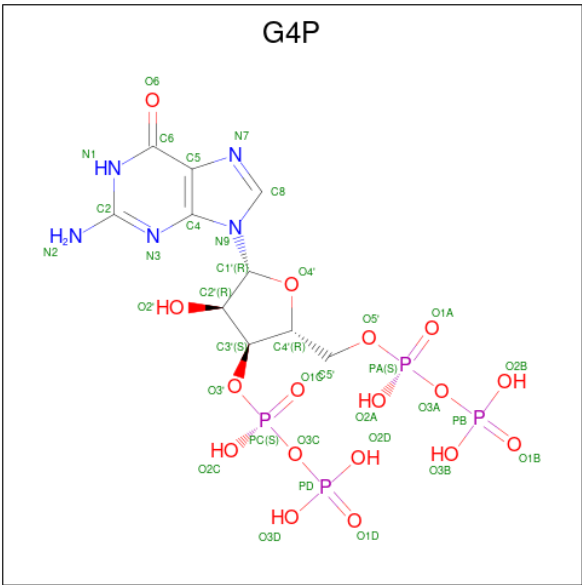
- Molecule 6 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

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

- Molecule 7 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

- Molecule 8 is GUANOSINE-5',3'-TETRAPHOSPHATE (CCD ID: G4P) (formula: C₁₀H₁₇N₅O₁₇P₄).



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

- Molecule 9 is water.

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

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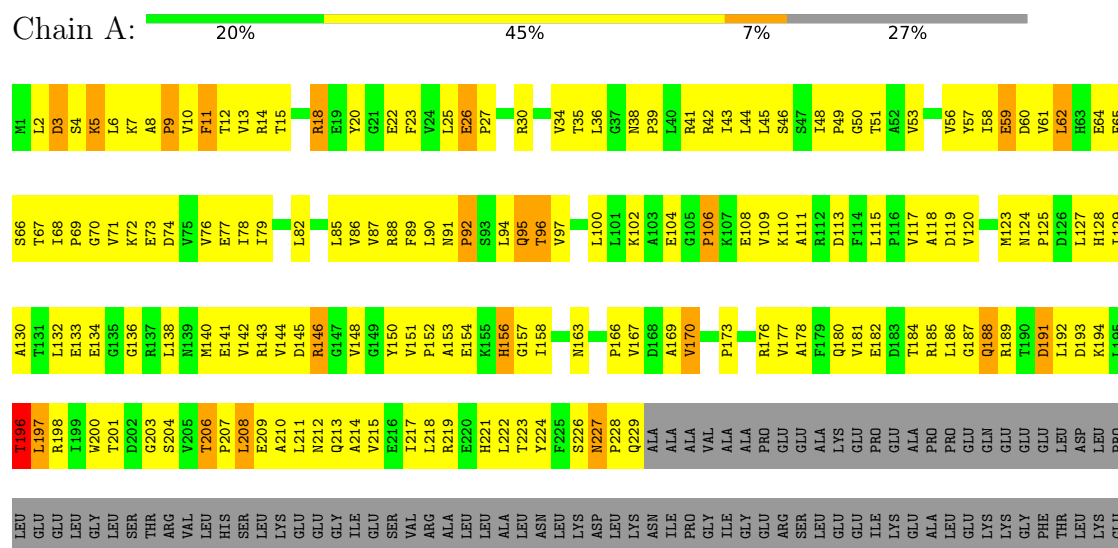
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	O	203	Total 203	O 203	0	0
9	P	541	Total 541	O 541	0	0

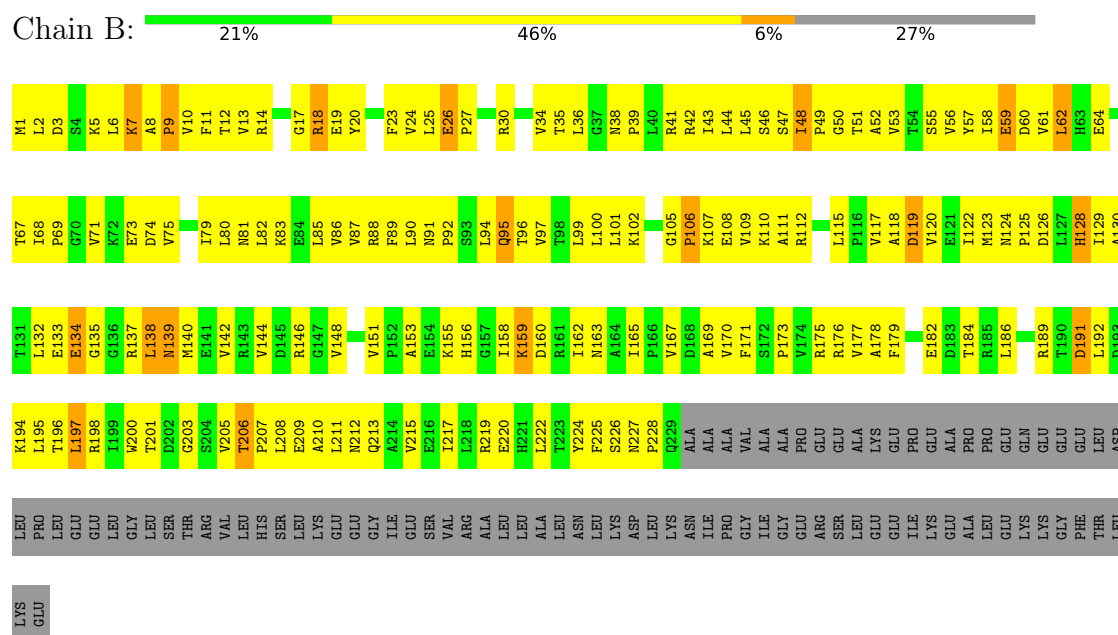
3 Residue-property plots

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

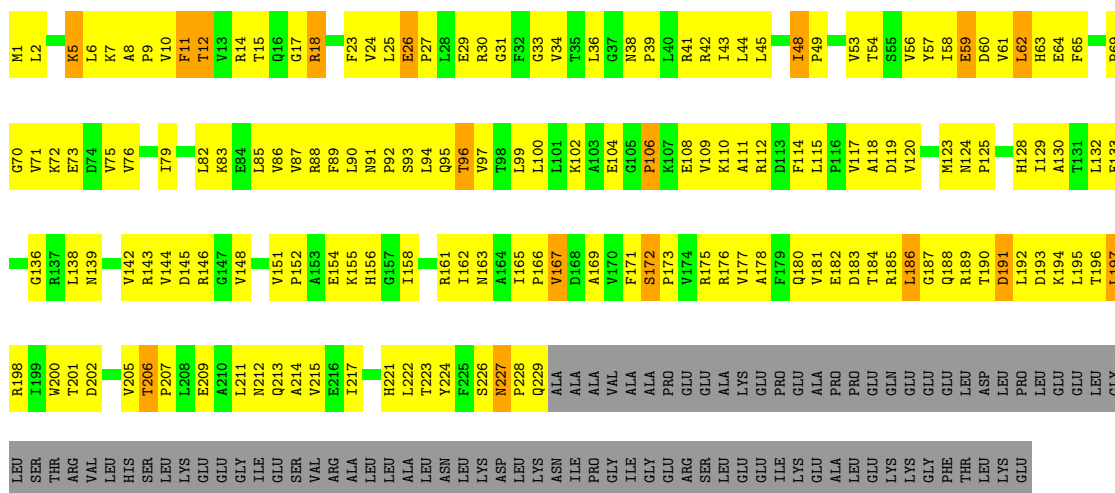
• Molecule 1: DNA-directed RNA polymerase alpha chain



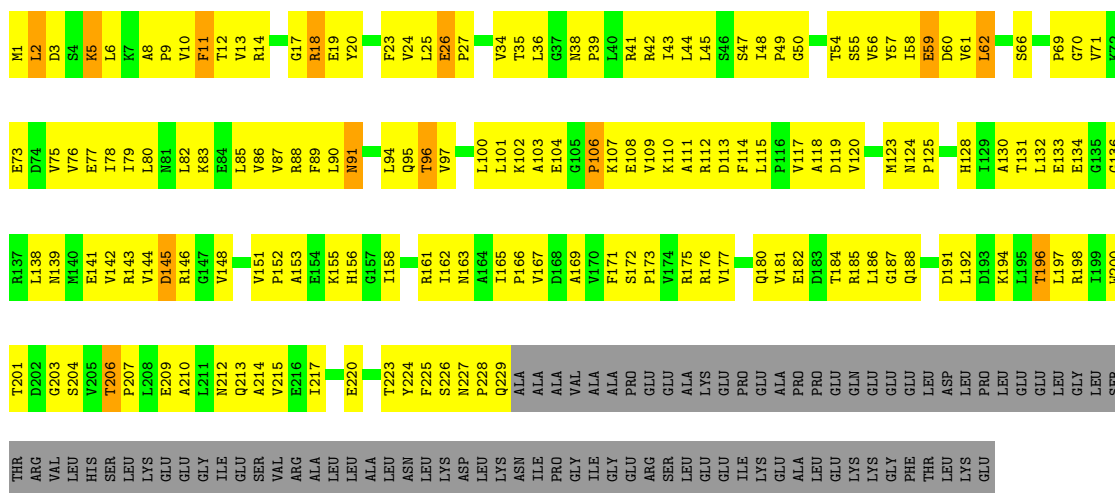
• Molecule 1: DNA-directed RNA polymerase alpha chain



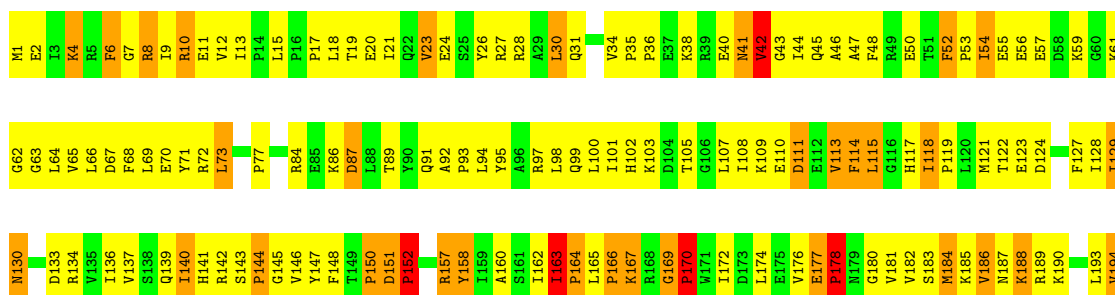
Chain K: 21% 46% 5% 27%

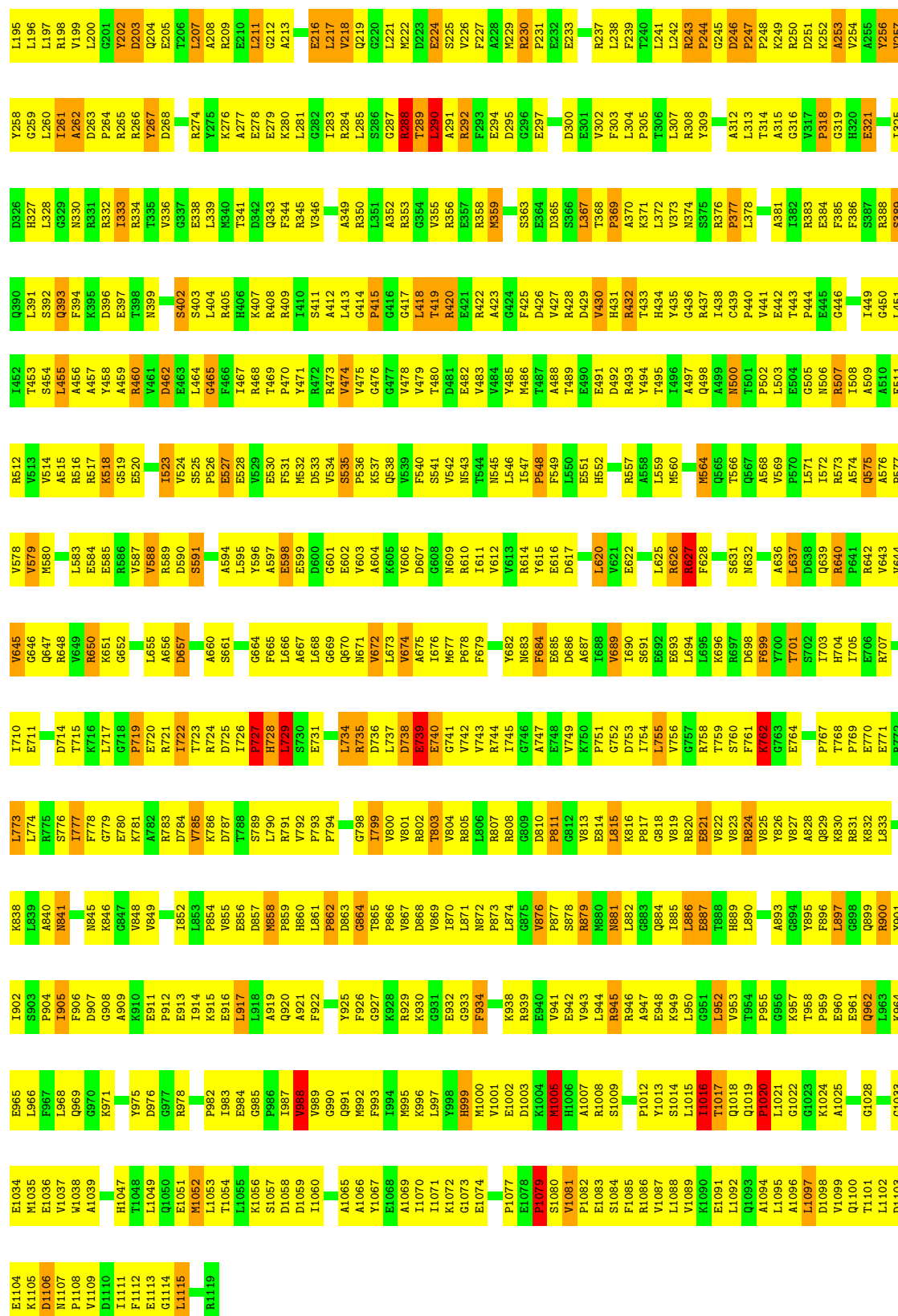


Chain L: 22% 47% 0% 27%



Chain C: 27% 59% 13%

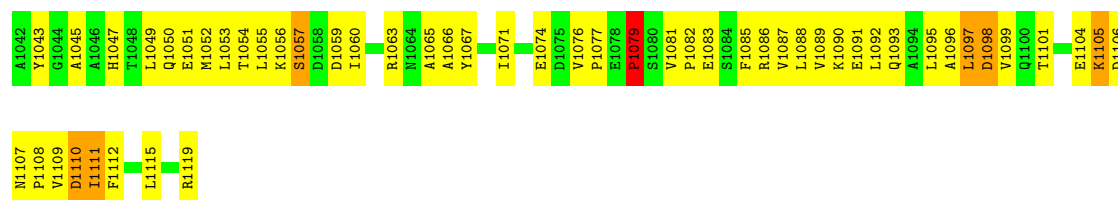




• Molecule 2: DNA-directed RNA polymerase beta chain

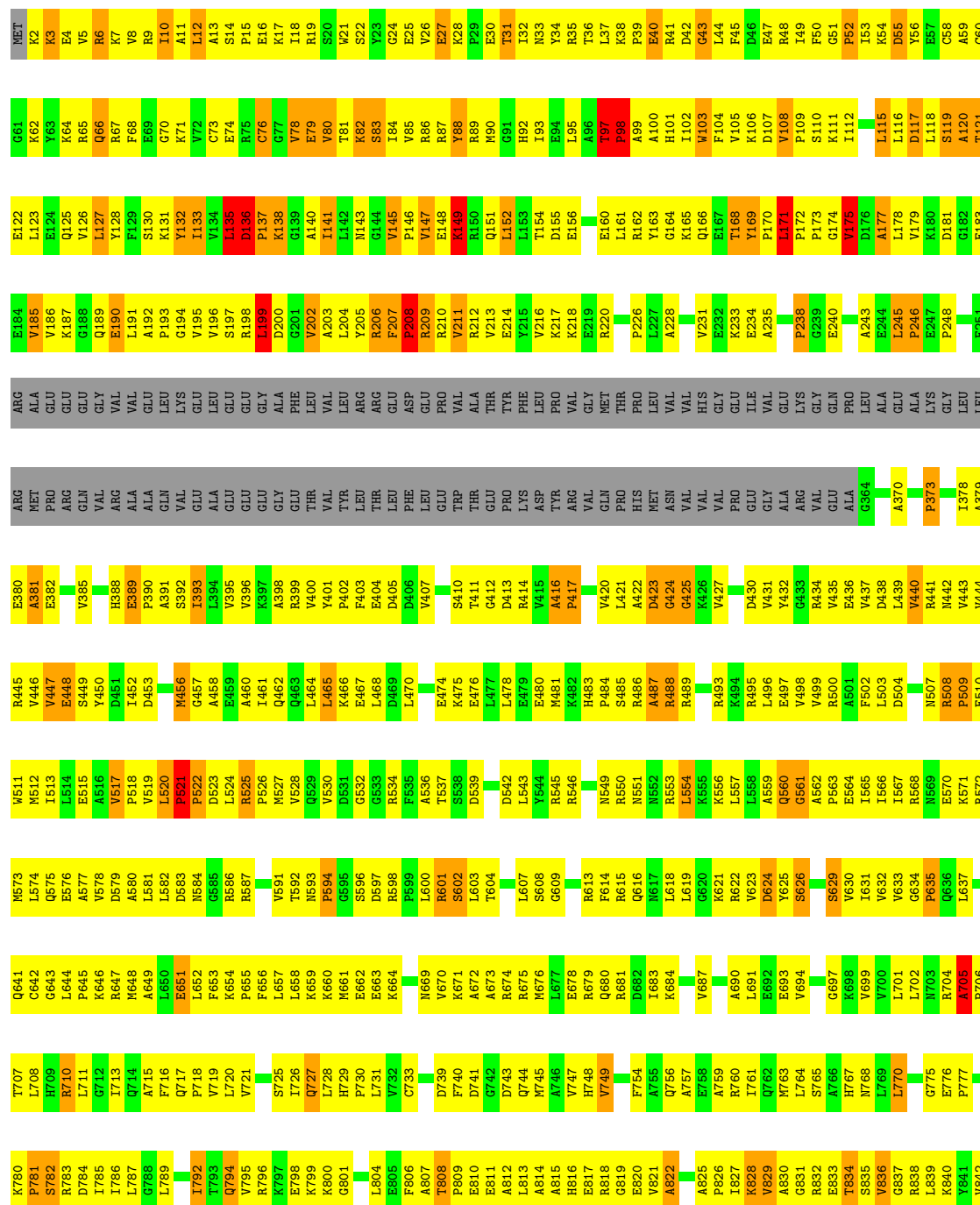
Chain M:

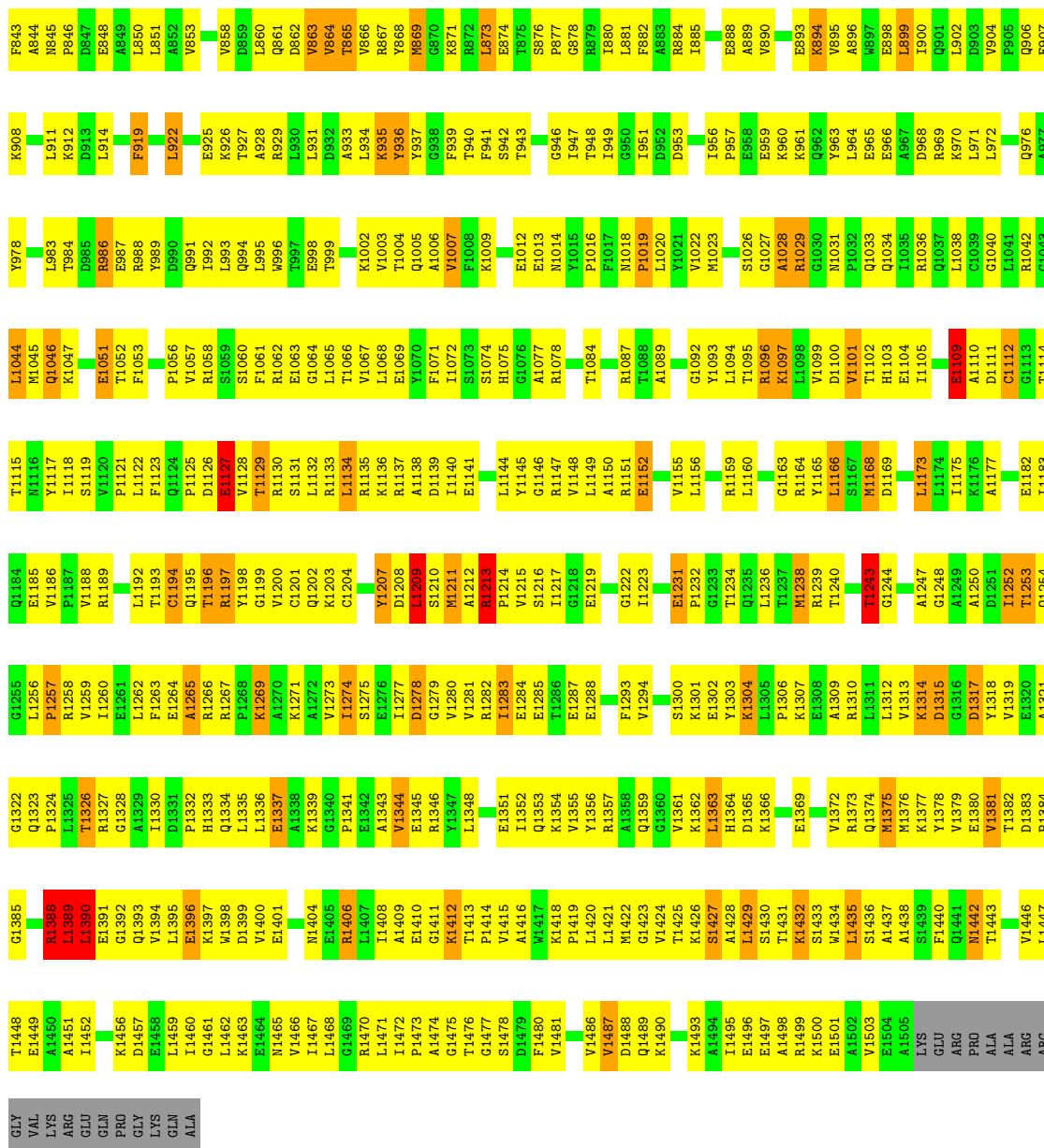
G977	A909	N845	R172	Y708	R640	P577	A515	F385	E321	G259	L196	D133	H1
R978	K910	K946	L773	E709	P641	V678	R516	F386	V322	L260	L197	R134	E2
T979	E911	G947	R774	I710	R642	V679	S454	S389	D323	I261	R198	V135	I3
G980	P912	V848	R775	E711	V643	N580	K518	Q390	D324	G263	V199	A262	K4
E981	E913	V849	S776	A712	V644	T581	G519	A456	I325	D263	L200	V137	R5
P982	I914	A850	L777	R713	V645	G582	E520	A457	R326	P264	G201	S138	F6
I983	K915	V853	F778	E714	G646	L583	P521	V458	H327	R265	Y202	Q139	G7
E984	E916	L852	G779	K716	Q647	E584	V522	A459	L328	R266	D203	H140	R8
G985	L917	L853	E780	E715	R648	E585	I523	R460		Y267	Q204	H141	R9
P986	L918	P854	K781	P719	V649	R586	V524	D396	R331	D268	E205	R142	R10
I987	L919	V855	E782	E720	R650	V587	S525	D462	R332	L269	R206	S143	E11
V988	Q920	E856	R783	R721	G651	V588	P526	T398	I333	A272	L207	P144	V12
V989		D857	R784	I722	G652	R589	E527	L464	R334	G273	A208	P145	I13
G990	Y925	R858	V785	T723	D653	D590	E528	G465	T335		R209	V146	P14
Q991	F926	P859	K786	R724	L654		F531	S402	G336	R274	E210	Y147	P16
N992	G927	H860		D725	L655		M532	R468	Q337	Y275	L211	F148	L15
F993	R928		S789	I726	A656		V534	L404	E338	K276	G212	T149	P17
K996	R929	G864	L790	E727	D657	L595	V535	H408	L339	A277	E216	D151	L18
L997	K930	T865	R791	H728	G658	V596	E536	R407	R340	E278		P152	T19
Y998	G931	P866	V792	L729	P659	A597	S535	R408	T341	E279	E217		E20
H999	E932	V867		S730	A660	E598	P536	V474	D342	R280	L217		L21
M1000		D868	G798		S661	E599	K537	V475	Q343	L281	V218	Y158	Q22
V1001	K938	V869	I799	E740	E662	D600	Q538	L410	F344	G282	Q219	T89	V23
E1002	R339	I870	V800	E741	G670	G601	V539	S411	R345	I283	G220	I159	E24
D1003		L871	V801	E742	N671	G608	L546	V478	V346	R284	L221	A160	S25
K1004	V943	R872	R802	L737	A667	V603	S541	V479	G347	L285	K222	S161	Y26
L1005	L944	P873	T803	D738	L668	A604	V542	T480	L348	S286	D223	I162	R27
R945	L952	L874	K816	E739	L675	K605	N543	D481	A349	E224	I163	Y95	R28
A1007	R946	G875	G818	E747	L676	V613	E551	E490	R350	S225	P164	A96	A29
L1008	E947	V876	P811	E748	G677	R614	H552	E491	L351	G226	L165	R97	L30
S1009	E948	P877	G812	V743	N672	V615	D553	D492	C417	T289	V226	P166	Q31
		S878	V813	E749	V673	E616	D554	R493	L418	F227	L290	K167	
		R879	R744	K750	P679	E617	A555	Y494	T419	A228	A228	K167	
							F548		R420	K292	M229	R168	V34
							F549				R230	G169	P35
							L550				P231	P170	P36
							E551				E232	Y171	E37
							H552				E233	I172	K38
							D553				E234	D173	R39
							D554					L174	E40
							A555					E175	N41
							L556					E176	V42
							E557					E177	G43
							R557					E178	I44
							V621					R179	G45
							E622					G180	A46
												V181	A47
							L625					G182	F48
							R626					V182	R49
							S691					S183	E50
							R627					M184	F51
							F628					K185	F52
							V629					V186	P53
							R630					R187	P53
							S631					G188	F54
							L694					K189	E55
							L695					K190	E56
							L696					K191	E57
							R697					P192	D58
							G698					V193	K59
							E699					V194	G60
							Y700					F127	E57
							T701					I128	D58
							L637					I129	K59
							D638					N130	G60
							Q639					L195	K61



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

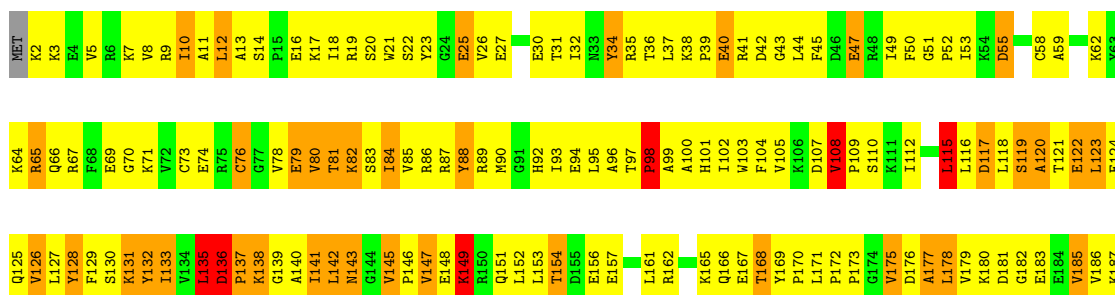
Chain D: 26% 53% 10% 9%



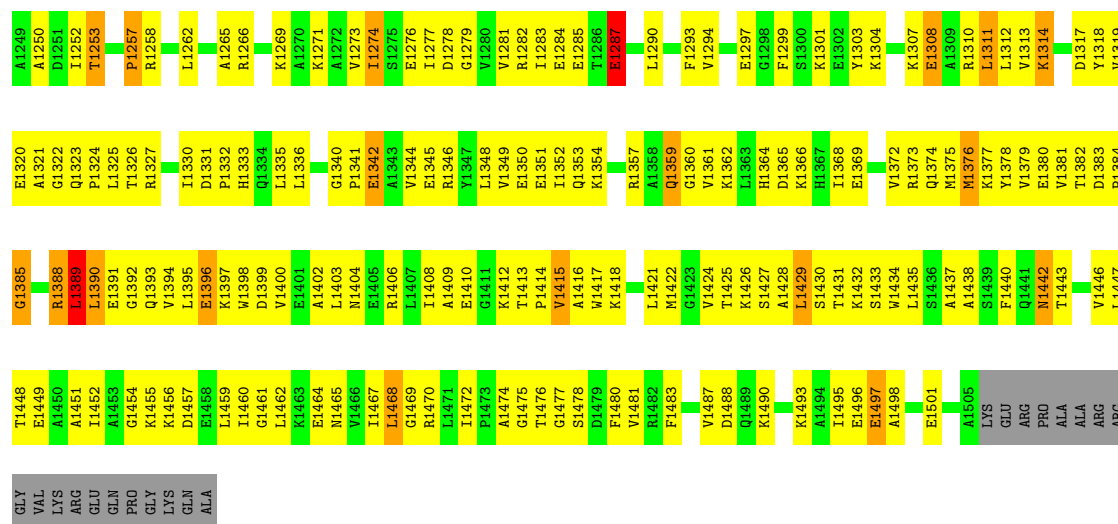


- Molecule 3: DNA-directed RNA polymerase beta' chain

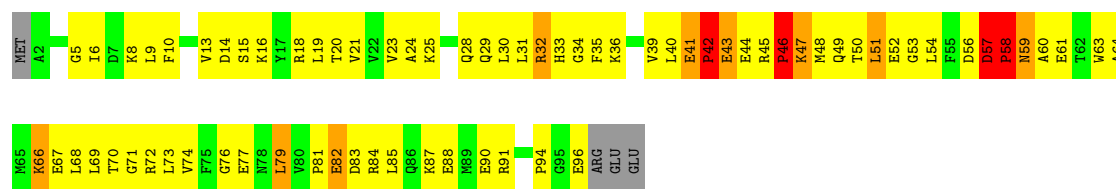
Chain N: 28% 53% 10% 9%



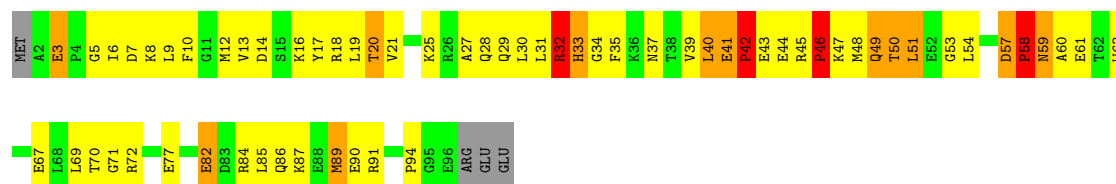
P1187	G1112	P1048	R988	L911	D847	I785	A715	L850	D583	L514	I452	A391	LYS	G188
V1188	G1113	S1049	P989	K912	E848	I786	F716	E651	N584	E515	D453	S392	GLU	Q189
R1189	T1114	G1050	P990		A849	L787		L852	G585	A516	A454	T393	LEU	E190
S1190	T1115	E1051	Q991	Q917	L850	G788	V719	F853	R586	P517	R455	L394	GLU	L191
P1191	T1116	T1052	Q992	A918	L851	L789		K654	R587	P518	R456	V396	GLU	A192
L1192	Y1117	F1053	L993	F919	A852		V721	P655	G588	V519	G457	V397	GLY	P193
T1193	L1118	E1054	Q994	L920	V853		V722	F656	A589	L520	A458	K397	ALA	G194
C1194	S1119	V1055	L995	R921	A854	I792	G723	L857	P590	P521	E459	A398	PHE	V196
Q1195	L1120	P1056	W996	L922		T793	Q724	L858		P522	A460	R399	LEU	V196
T1196	P1121	T1057	T997		V858	T794		K659	N593	D523	I461	V400	VAL	S197
R1197	L1122	R1058	E998	E925	L860	R796	L728	K660	P594	L524	Q462	Y401	LEU	R198
Y1198	F1123	S1059	T999	K926	L861	G797	H729	M661	G595	R525	Q463	P402	ARG	L199
L1199	P1124	T1060	T1000	T927	Q861	E798		E662	P526	P526	L464	F403	ARG	L199
V1200	P1125	F1061	A928	A928	D862	K799	V732	E663	S596	M527	L465		GLU	D200
C1201	L1126	R1062	K1002	R929	V863	G733		K664	D597	V528	K466	D406	ASP	G201
K1202	E1127	E1063	V1003	L930	V864	E734		P599	R598		E467	V407	GLU	A203
K1203	G1064	G1064	T1004	L931	T865	F735		P599	L800	F535	L468	V409	PRO	L204
C1204	L1129	L1065	Q1005	L931	T866	F736		R601	R601	A536	D469	V409	VAL	Y205
Y1205	R1130	T1066	Q1005	L931	T867	K671	N737	S602	S602	T537	L470	S410	ALA	R206
G1206		V1067	A1006	K935	R867	A672	A738	A672	L803	S538	E471	T411	THR	F207
Y1207	R1133	E1069	F1008	Y936	R868	A807	D739	R674	T604	D539	A472	G412	TYR	P208
D1208	L1134	E1069	M1009	F939	T869	T808		R674	D605		L473	D413	PHE	R209
L1209	R1135		M1010		K871	P809		R614	I606	L543	E474	R414	ASP	R210
M1210		S1073	F1011	S942	R872	E810	D743	M676	L607	Y544	K475	V415	PRO	V211
S1210	K1136	H1074	E1012	T943	L873	E811	M745		S608	R545	E476	A416	VAL	R212
H1211	R1137	H1075	E1013	T944	E874	A812	A748	R679	G609	R546	L477	P417	GLY	V213
A1212	L1144	G1076	E1014	S945	T875	L813	H748	Q680	K610	L547	L478	G418	MET	E214
R1213	Y1145	A1077	Y1015	G946	S876	A814		R681		L548	E479	D419	THR	Y215
P1214	G1146	G1078	Y1016	G947	P877	A815	V749	R675	R613	N550	E480	V420	PHE	R216
	R1147	K1079	F1017	T948	G878	H816	P750	R614	R614	R550	M481	L421	PRO	
I1217	L1148	G1080	M1018		R879	E817	L751	K684	F613	N551	K482	A422	VAL	K217
G1218			P1019	I951	I880	R818	S752	D685	L619	N552	H483	D423	VAL	A221
E1219	L1149		L1020	D952		R819	S753	E686	G620	R553	P484	G424	VAL	
G1222	V1155	D1083	V1021	D953	R884	E820	F754	G688	K621	L554	S485	G425	GLY	P226
I1223	L1156	T1084	V1022	A954	V885	V821	A755	D689	R622	K555	R486	K426	PRO	L227
V1224	G1157	L1086	M1023	V955	V886	A822	Q756	A690	V623	K556	A487	V427	ILE	
A1225	L1158	R1087	I956	I956	A887	L823	A757	L691	D624	L557	R488	K428	VAL	V231
A1226	R1159	T1088	Q1025	P957	E888	N824	E758	E692	Y625	L558	R489	S429	GLU	E232
Q1227	L1160	A1089	S1026	E958	A889	A825	E759	E693		A559	A490	D430	LYS	K233
S1228	E1161	D1090	G1027	E959	V890	P826	R760	V694	R628	Q560		V431	GLY	E234
I1229	E1162	S1091	A1028		E891	I827		I695	S629	G561	R493	Y432	GLN	
G1230	G1163	G1092	R1029	Q962	D892	K828	L764	G697	V630	I565	K494	Q433	PRO	P238
E1231	R1164	Y1093	G1030	Y963	E893	R829	S765	K698	I631	I566	R495	R434	LEU	G239
P1232	L1165	L1094	N1031	L964	V894	A830	A766	V699	V632	I567	L496	V435	ALA	
G1233	L1166	T1095	F1032	E965	V895	G831		V700	V633	R568	E497	E436	GLU	L245
T1234	S1167	R1096	Q1033	E966	A896	R832	H767	L701	G634	N569	V498	V437	ALA	P246
Q1235	M1168	K1097	Q1034	E967	W897	E833	N768	L702	P635	N569	V499	D438	LYS	E247
L1236	L1169	L1098	I1035	T834	E898	T834	L769	L702	Q636	E570	R500	L439	GLY	P248
T1237		V1099	R1036	R969	L899	S835	L770	N703	L637	K571	A501	V440	LEU	F251
M1238	L1175	D1100	Q1037	K970	I900	V836	S771	R704	K638	R572	F502	R441	LEU	
R1239	K1176	V1101	L1038	L971	Q961	G837	P772	A705		M502	R442	R441	ARG	
T1240		T1102	C1039		L902	P706	A773	T707	Q641	L574	A379	V443	MET	ALA
F1241	E1179	H1103	G1040	I974	D903	L839	S774	T707	C642	Q575	E380	V444	PRO	GLU
H1242	A1180	H1104	L1041	E975	V904	K840		L708	G643	E576	R445	R445	ARG	GLU
T1243	G1181	I1105	G1042	P905	R905	Y841	P777	H709	G644	A577	N507	V446	GLN	GLY
G1244	E1182	V1106	R1043	Q806	V842	R710		R710	P645	V578	P509	V447	VAL	GLY
G1245	T1183		L1044	E507	F843	L711		L711	K646	D579	E510	V385	ARG	VAL
V1246	Q1184	E1109	M1045	K908	A844	G712	S782	G712	E580	A580	W511	S449	VAL	VAL
A1247	E1185	A1110	Q1046	N909	N845	I713	R783	I713	M648	L581	M512	Y450	ALA	GLU
G1248	V1186	D1111	K1047	E987	S910	P846	D784	Q714	A649	L582	I513	P390	GLN	LEU



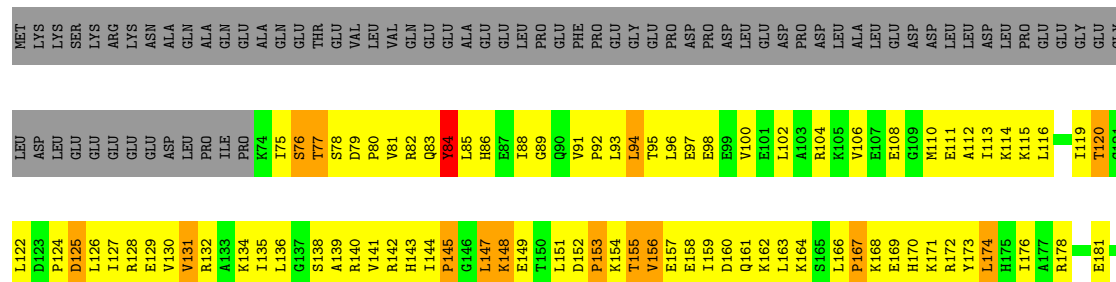
- Molecule 4: RNA POLYMERASE OMEGA SUBUNIT

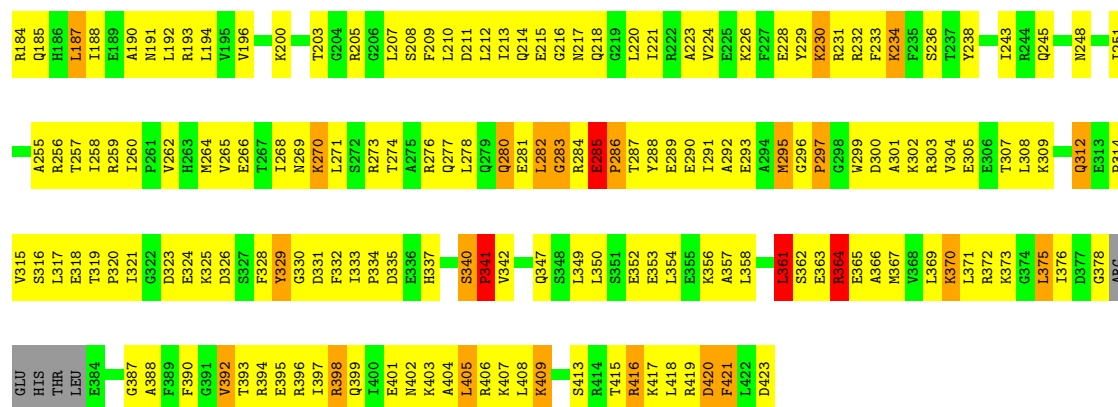


- Molecule 4: RNA POLYMERASE OMEGA SUBUNIT

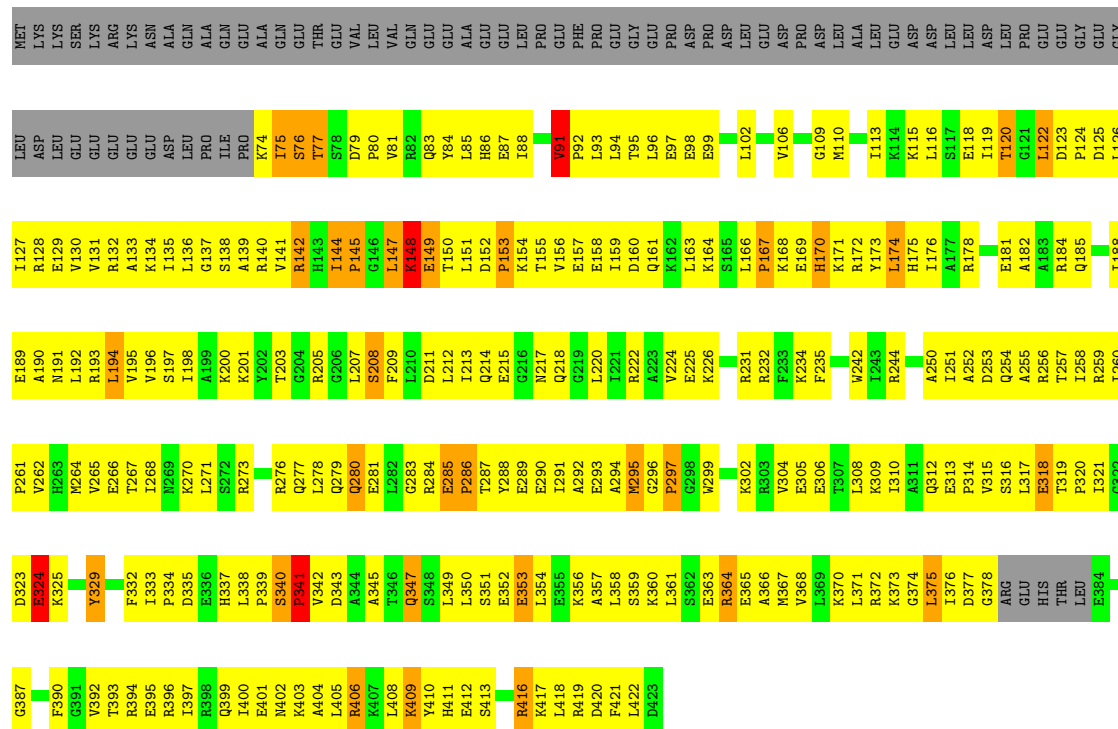


- Molecule 5: principal sigma factor





- Molecule 5: principal sigma factor



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	236.35Å 236.35Å 249.04Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	40.00 – 2.70 40.00 – 2.71	Depositor EDS
% Data completeness (in resolution range)	(Not available) (40.00-2.70) 97.1 (40.00-2.71)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.06 (at 2.73Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.186 , 0.266 (Not available) , 0.226	Depositor DCC
R_{free} test set	14873 reflections (3.64%)	wwPDB-VP
Wilson B-factor (Å ²)	51.1	Xtriage
Anisotropy	0.058	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.23 , 63.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.38$, $\langle L^2 \rangle = 0.20$	Xtriage
Estimated twinning fraction	0.499 for -h,-k,l 0.086 for h,-h-k,-l 0.086 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	63021	wwPDB-VP
Average B, all atoms (Å ²)	72.0	wwPDB-VP

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

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: G4P, ZN, MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.70	1/1838 (0.1%)	0.95	0/2498
1	B	0.67	0/1838	0.92	0/2498
1	K	0.74	2/1838 (0.1%)	0.98	3/2498 (0.1%)
1	L	0.66	0/1838	0.91	2/2498 (0.1%)
2	C	0.75	1/8996 (0.0%)	1.12	37/12164 (0.3%)
2	M	0.74	3/8996 (0.0%)	1.13	35/12164 (0.3%)
3	D	0.75	1/10975 (0.0%)	1.15	60/14836 (0.4%)
3	N	0.75	1/10975 (0.0%)	1.14	58/14836 (0.4%)
4	E	0.76	0/783	1.10	0/1054
4	O	0.75	0/783	1.14	3/1054 (0.3%)
5	F	0.68	0/2811	1.09	11/3781 (0.3%)
5	P	0.66	1/2811 (0.0%)	1.07	9/3781 (0.2%)
All	All	0.74	10/54482 (0.0%)	1.10	218/73662 (0.3%)

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	M	474	VAL	CA-CB	7.09	1.61	1.53
1	K	48	ILE	CA-C	6.75	1.59	1.52
3	D	207	PHE	CA-C	6.09	1.58	1.52
1	K	48	ILE	C-N	5.95	1.40	1.33
5	P	144	ILE	CA-CB	5.85	1.57	1.54
2	M	880	MET	SD-CE	5.58	1.93	1.79
1	A	196	THR	CA-CB	5.54	1.60	1.52
3	N	207	PHE	CA-C	5.30	1.57	1.52
2	C	988	VAL	CA-CB	5.13	1.60	1.54
2	M	988	VAL	CA-CB	5.03	1.59	1.54

All (218) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	207	PHE	CA-C-N	14.18	137.57	119.84
3	N	207	PHE	C-N-CA	14.18	137.57	119.84
3	D	207	PHE	CA-C-N	13.81	137.10	119.84
3	D	207	PHE	C-N-CA	13.81	137.10	119.84
2	C	177	GLU	CA-C-N	13.19	136.33	119.84
2	C	177	GLU	C-N-CA	13.19	136.33	119.84
2	M	177	GLU	CA-C-N	13.18	136.32	119.84
2	M	177	GLU	C-N-CA	13.18	136.32	119.84
2	M	243	ARG	CA-C-N	12.50	135.47	119.84
2	M	243	ARG	C-N-CA	12.50	135.47	119.84
2	C	243	ARG	CA-C-N	11.64	134.39	119.84
2	C	243	ARG	C-N-CA	11.64	134.39	119.84
3	N	508	ARG	CA-C-N	10.06	132.42	119.84
3	N	508	ARG	C-N-CA	10.06	132.42	119.84
3	D	508	ARG	CA-C-N	9.87	132.18	119.84
3	D	508	ARG	C-N-CA	9.87	132.18	119.84
1	K	48	ILE	CA-C-N	9.59	132.60	120.51
1	K	48	ILE	C-N-CA	9.59	132.60	120.51
3	N	561	GLY	CA-C-O	-9.58	115.99	122.22
3	N	136	ASP	CA-C-N	-9.37	108.13	119.84
3	N	136	ASP	C-N-CA	-9.37	108.13	119.84
3	D	561	GLY	CA-C-O	-9.36	115.71	122.45
2	M	726	ILE	CA-C-N	9.16	131.29	119.84
2	M	726	ILE	C-N-CA	9.16	131.29	119.84
3	D	705	ALA	CA-C-N	-8.76	108.90	119.84
3	D	705	ALA	C-N-CA	-8.76	108.90	119.84
2	C	726	ILE	CA-C-N	8.74	130.76	119.84
2	C	726	ILE	C-N-CA	8.74	130.76	119.84
3	D	136	ASP	CA-C-N	-8.73	108.92	119.84
3	D	136	ASP	C-N-CA	-8.73	108.92	119.84
2	C	728	HIS	N-CA-C	8.70	124.02	113.41
5	P	340	SER	CA-C-N	8.68	130.68	119.84
5	P	340	SER	C-N-CA	8.68	130.68	119.84
3	N	1209	LEU	N-CA-C	-8.23	97.02	109.94
2	M	728	HIS	N-CA-C	8.17	123.33	113.12
5	P	285	GLU	CA-C-N	8.14	130.01	119.84
5	P	285	GLU	C-N-CA	8.14	130.01	119.84
3	D	1209	LEU	N-CA-C	-8.11	97.21	109.94
5	F	340	SER	CA-C-N	7.89	129.70	119.84
5	F	340	SER	C-N-CA	7.89	129.70	119.84
5	F	285	GLU	CA-C-N	7.83	129.63	119.84
5	F	285	GLU	C-N-CA	7.83	129.63	119.84
3	N	80	VAL	N-CA-C	7.58	118.33	107.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	80	VAL	N-CA-C	7.38	118.07	107.88
5	F	361	LEU	N-CA-C	7.34	121.09	109.50
3	N	143	ASN	N-CA-C	-7.25	104.69	113.97
2	M	318	PRO	CA-C-N	7.15	130.78	120.91
2	M	318	PRO	C-N-CA	7.15	130.78	120.91
3	N	705	ALA	CA-C-N	-7.14	110.92	119.84
3	N	705	ALA	C-N-CA	-7.14	110.92	119.84
2	M	318	PRO	N-CA-C	-6.96	105.16	113.86
2	C	318	PRO	N-CA-C	-6.95	105.17	113.86
3	N	520	LEU	CA-C-N	6.89	127.48	120.38
3	N	520	LEU	C-N-CA	6.89	127.48	120.38
3	N	561	GLY	N-CA-C	-6.82	105.47	111.95
5	F	296	GLY	CA-C-N	6.80	128.35	119.84
5	F	296	GLY	C-N-CA	6.80	128.35	119.84
3	N	1213	ARG	CA-C-N	-6.71	113.74	120.31
3	N	1213	ARG	C-N-CA	-6.71	113.74	120.31
3	D	1213	ARG	CA-C-N	-6.63	113.96	120.52
3	D	1213	ARG	C-N-CA	-6.63	113.96	120.52
3	D	561	GLY	N-CA-C	-6.60	105.31	112.04
5	F	91	VAL	CA-C-N	-6.59	113.85	120.31
5	F	91	VAL	C-N-CA	-6.59	113.85	120.31
2	M	230	ARG	CA-C-N	6.56	128.04	119.84
2	M	230	ARG	C-N-CA	6.56	128.04	119.84
3	D	164	GLY	CA-C-O	-6.53	117.75	122.45
3	D	1109	GLU	N-CA-C	6.52	117.23	108.23
2	C	163	ILE	N-CA-C	6.50	114.55	107.60
3	D	143	ASN	N-CA-C	-6.47	105.69	113.97
3	D	248	PRO	N-CA-CB	6.46	109.47	103.46
2	C	318	PRO	CA-C-N	6.46	129.83	120.91
2	C	318	PRO	C-N-CA	6.46	129.83	120.91
2	C	319	GLY	N-CA-C	-6.43	102.14	110.69
2	C	151	ASP	CA-C-N	6.34	127.76	119.84
2	C	151	ASP	C-N-CA	6.34	127.76	119.84
3	D	238	PRO	N-CA-CB	6.32	109.88	103.25
3	D	593	ASN	CA-C-N	6.30	127.72	119.84
3	D	593	ASN	C-N-CA	6.30	127.72	119.84
2	C	230	ARG	CA-C-N	6.29	127.70	119.84
2	C	230	ARG	C-N-CA	6.29	127.70	119.84
3	D	198	ARG	CA-C-N	-6.29	113.49	121.98
3	D	198	ARG	C-N-CA	-6.29	113.49	121.98
3	D	520	LEU	CA-C-N	6.26	126.82	120.38
3	D	520	LEU	C-N-CA	6.26	126.82	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	248	PRO	N-CA-CB	6.24	109.27	103.46
2	M	169	GLY	CA-C-N	6.22	127.61	119.84
2	M	169	GLY	C-N-CA	6.22	127.61	119.84
3	N	517	VAL	N-CA-C	6.21	114.04	107.76
3	N	593	ASN	CA-C-N	6.19	127.58	119.84
3	N	593	ASN	C-N-CA	6.19	127.58	119.84
3	D	10	ILE	CB-CA-C	-6.19	102.73	111.21
2	C	674	VAL	N-CA-C	6.18	116.74	108.27
3	D	199	LEU	CA-CB-CG	-6.17	94.72	116.30
3	D	517	VAL	N-CA-C	6.16	113.99	107.76
3	N	198	ARG	N-CA-C	6.15	120.41	112.41
2	C	414	GLY	CA-C-N	6.13	127.50	119.84
2	C	414	GLY	C-N-CA	6.13	127.50	119.84
3	D	97	THR	CA-C-N	6.13	127.50	119.84
3	D	97	THR	C-N-CA	6.13	127.50	119.84
2	M	319	GLY	N-CA-C	-6.13	102.54	110.69
5	F	84	TYR	CA-CB-CG	6.12	124.92	113.90
3	N	1109	GLU	CA-C-N	6.11	132.32	121.75
3	N	1109	GLU	C-N-CA	6.11	132.32	121.75
2	M	591	SER	N-CA-C	-6.11	102.65	110.53
3	N	199	LEU	CA-CB-CG	-6.10	94.94	116.30
5	P	91	VAL	CA-C-N	-6.10	114.34	120.31
5	P	91	VAL	C-N-CA	-6.10	114.34	120.31
3	N	198	ARG	CA-C-N	-6.08	113.77	121.98
3	N	198	ARG	C-N-CA	-6.08	113.77	121.98
3	N	238	PRO	N-CA-CB	6.02	109.57	103.25
2	M	243	ARG	C-N-CD	-6.01	100.34	125.00
5	P	296	GLY	CA-C-N	6.01	127.35	119.84
5	P	296	GLY	C-N-CA	6.01	127.35	119.84
3	N	80	VAL	CA-C-N	6.00	133.16	121.63
3	N	80	VAL	C-N-CA	6.00	133.16	121.63
2	C	591	SER	N-CA-C	-5.99	102.81	110.53
3	N	448	GLU	N-CA-C	5.97	121.23	113.88
2	M	674	VAL	N-CA-C	5.97	116.45	108.27
3	N	525	ARG	CA-C-N	5.95	127.28	119.84
3	N	525	ARG	C-N-CA	5.95	127.28	119.84
3	D	226	PRO	N-CA-CB	5.94	109.49	103.25
3	N	379	ALA	N-CA-C	-5.92	104.83	111.28
3	N	1109	GLU	N-CA-C	5.89	116.36	108.23
3	D	379	ALA	N-CA-C	-5.88	104.87	111.28
2	M	879	ARG	CA-C-N	-5.87	115.10	123.20
2	M	879	ARG	C-N-CA	-5.87	115.10	123.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	858	MET	CA-C-N	5.87	127.17	119.84
2	C	858	MET	C-N-CA	5.87	127.17	119.84
3	N	171	LEU	CA-C-N	5.87	126.42	120.38
3	N	171	LEU	C-N-CA	5.87	126.42	120.38
3	N	373	PRO	N-CA-CB	5.87	109.41	103.25
3	D	198	ARG	N-CA-C	5.85	120.02	112.41
2	C	655	LEU	N-CA-C	-5.85	106.69	113.88
3	D	448	GLU	N-CA-C	5.84	121.07	113.88
3	N	226	PRO	N-CA-CB	5.84	109.38	103.25
3	D	1109	GLU	CA-C-N	5.83	132.16	121.85
3	D	1109	GLU	C-N-CA	5.83	132.16	121.85
2	M	151	ASP	CA-C-N	5.80	127.09	119.84
2	M	151	ASP	C-N-CA	5.80	127.09	119.84
2	M	244	PRO	CA-N-CD	-5.78	103.91	112.00
2	C	576	ALA	CA-C-N	5.78	125.79	119.90
2	C	576	ALA	C-N-CA	5.78	125.79	119.90
3	D	108	VAL	CA-C-N	-5.75	112.65	119.84
3	D	108	VAL	C-N-CA	-5.75	112.65	119.84
2	M	655	LEU	N-CA-C	-5.74	106.82	113.88
2	M	858	MET	CA-C-N	5.71	126.98	119.84
2	M	858	MET	C-N-CA	5.71	126.98	119.84
3	N	80	VAL	CA-C-O	5.67	125.72	120.96
3	N	97	THR	CA-C-N	5.65	126.90	119.84
3	N	97	THR	C-N-CA	5.65	126.90	119.84
1	L	91	ASN	CA-C-N	5.64	126.89	119.84
1	L	91	ASN	C-N-CA	5.64	126.89	119.84
2	M	729	LEU	N-CA-C	5.64	122.81	110.80
3	N	245	LEU	CA-C-N	5.63	126.88	119.84
3	N	245	LEU	C-N-CA	5.63	126.88	119.84
2	C	169	GLY	CA-C-N	5.62	126.86	119.84
2	C	169	GLY	C-N-CA	5.62	126.86	119.84
3	D	245	LEU	CA-C-N	5.60	126.84	119.84
3	D	245	LEU	C-N-CA	5.60	126.84	119.84
3	D	525	ARG	CA-C-N	5.53	126.76	119.84
3	D	525	ARG	C-N-CA	5.53	126.76	119.84
3	D	373	PRO	N-CA-CB	5.53	109.05	103.25
3	D	811	GLU	N-CA-C	-5.51	106.05	112.89
2	M	414	GLY	CA-C-N	5.51	126.72	119.84
2	M	414	GLY	C-N-CA	5.51	126.72	119.84
3	D	79	GLU	CA-C-N	-5.46	114.64	121.96
3	D	79	GLU	C-N-CA	-5.46	114.64	121.96
2	C	729	LEU	N-CA-C	5.45	122.41	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	108	VAL	CA-C-N	-5.42	113.06	119.84
3	N	108	VAL	C-N-CA	-5.42	113.06	119.84
3	D	81	THR	N-CA-C	-5.40	100.32	108.52
3	D	80	VAL	CA-C-O	5.39	125.49	120.96
3	N	199	LEU	N-CA-C	5.36	116.64	108.12
2	C	1081	VAL	N-CA-C	5.33	114.17	108.95
3	N	246	PRO	N-CA-CB	5.32	108.83	103.25
3	D	80	VAL	CA-C-N	5.32	133.78	121.87
3	D	80	VAL	C-N-CA	5.32	133.78	121.87
3	N	81	THR	N-CA-C	-5.31	100.37	108.76
2	M	1110	ASP	N-CA-C	5.31	117.38	108.73
2	C	535	SER	N-CA-C	5.28	112.88	108.13
3	D	246	PRO	N-CA-CB	5.27	108.78	103.25
5	P	283	GLY	N-CA-C	-5.26	107.98	115.30
3	D	171	LEU	CA-C-N	5.25	125.79	120.38
3	D	171	LEU	C-N-CA	5.25	125.79	120.38
3	N	811	GLU	N-CA-C	-5.23	106.40	112.89
2	M	39	ARG	N-CA-C	5.21	118.10	111.69
2	C	727	PRO	CA-C-N	-5.19	112.81	122.09
2	C	727	PRO	C-N-CA	-5.19	112.81	122.09
4	O	49	GLN	N-CA-C	5.18	121.39	113.61
3	D	74	GLU	N-CA-C	5.17	116.77	111.03
3	N	208	PRO	CA-C-N	5.16	131.40	121.54
3	N	208	PRO	C-N-CA	5.16	131.40	121.54
4	O	50	THR	CA-C-N	5.16	131.69	122.09
4	O	50	THR	C-N-CA	5.16	131.69	122.09
2	C	728	HIS	CA-C-N	-5.16	111.69	121.54
2	C	728	HIS	C-N-CA	-5.16	111.69	121.54
3	N	132	TYR	CA-CB-CG	-5.16	104.62	113.90
2	M	57	GLU	N-CA-C	5.13	116.95	108.48
1	K	197	LEU	CA-CB-CG	5.12	134.21	116.30
3	N	79	GLU	CA-C-N	-5.10	115.13	121.96
3	N	79	GLU	C-N-CA	-5.10	115.13	121.96
5	F	283	GLY	N-CA-C	-5.09	108.22	115.30
3	D	132	TYR	CA-CB-CG	-5.08	104.75	113.90
3	D	199	LEU	N-CA-C	5.08	116.20	108.12
2	C	879	ARG	CA-C-N	-5.08	116.20	123.20
2	C	879	ARG	C-N-CA	-5.08	116.20	123.20
3	D	208	PRO	CA-N-CD	-5.07	104.90	112.00
3	N	10	ILE	CB-CA-C	-5.06	104.27	111.21
3	D	208	PRO	CA-C-N	5.06	131.21	121.54
3	D	208	PRO	C-N-CA	5.06	131.21	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	441	ARG	N-CA-C	-5.06	103.03	110.52
2	C	705	ILE	CB-CA-C	-5.05	104.43	110.99
3	N	1113	GLY	N-CA-C	5.05	118.99	112.83
3	D	1126	ASP	N-CA-C	5.04	117.86	110.30
2	M	165	LEU	CA-C-N	5.02	139.05	127.00
2	M	165	LEU	C-N-CA	5.02	139.05	127.00
2	M	608	GLY	N-CA-C	-5.00	109.11	115.31

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	216	0
1	B	1806	0	1861	195	0
1	K	1806	0	1861	197	0
1	L	1806	0	1861	187	0
2	C	8828	0	8933	1048	0
2	M	8828	0	8933	1086	0
3	D	10797	0	10873	1289	0
3	N	10797	0	10873	1265	0
4	E	769	0	775	107	0
4	O	769	0	775	104	0
5	F	2770	0	2844	331	0
5	P	2770	0	2844	371	0
6	A	29	0	0	0	0
6	B	22	0	0	0	0
6	C	92	0	0	0	0
6	D	150	0	0	0	0
6	E	17	0	0	0	0
6	F	49	0	0	0	0
6	M	1	0	0	0	0
6	N	2	0	0	0	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	N	72	0	22	9	0
9	A	296	0	0	67	0
9	B	307	0	0	66	0
9	C	1308	0	0	282	0
9	D	1745	0	0	323	0
9	E	160	0	0	38	0
9	F	619	0	0	99	0
9	K	316	0	0	72	0
9	L	341	0	0	65	0
9	M	1401	0	0	327	0
9	N	1794	0	0	333	0
9	O	203	0	0	34	0
9	P	541	0	0	96	0
All	All	63021	0	54316	6100	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 56.

All (6100) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.28	1.11
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.33	1.10
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.34	1.10
8:N:9100:G4P:H5"	8:N:9100:G4P:H8	1.14	1.09
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.35	1.08
2:C:328:LEU:HD13	2:C:433:THR:HB	1.37	1.07
3:D:95:LEU:HD11	3:D:517:VAL:HG23	1.34	1.05
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.40	1.04
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.38	1.03
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.39	1.01
3:N:908:LYS:HB2	3:N:1027:GLY:HA3	1.41	1.01
3:N:172:PRO:HB3	3:N:178:LEU:HB3	1.43	1.01
2:C:577:PRO:HA	2:C:671:ASN:HD21	1.24	1.00
2:M:829:GLN:HE21	2:M:831:ARG:HD3	1.24	1.00
2:M:892:LEU:HD23	2:M:918:LEU:HD11	1.41	1.00
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.42	0.99
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.44	0.99
2:M:546:LEU:HD12	2:M:565:GLN:HE22	1.26	0.99
3:N:1372:VAL:HA	3:N:1375:MET:HE2	1.45	0.99
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1209:LEU:HD12	3:D:1210:SER:H	1.29	0.98
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.43	0.98
3:D:676:MET:HE1	3:D:684:LYS:H	1.27	0.98
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.47	0.97
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.48	0.96
3:D:489:ARG:HG3	3:D:493:ARG:HH12	1.29	0.95
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.28	0.95
4:O:40:LEU:HD21	4:O:67:GLU:HA	1.46	0.95
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.48	0.95
2:C:627:ARG:HE	2:C:627:ARG:H	1.05	0.94
3:D:1389:LEU:HG	3:D:1390:LEU:HD23	1.48	0.94
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.48	0.94
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.47	0.94
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.48	0.94
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.47	0.94
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.50	0.94
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.48	0.94
3:D:1388:ARG:H	3:D:1388:ARG:HD2	1.29	0.93
3:D:1304:LYS:H	3:D:1304:LYS:HD3	1.33	0.93
2:M:777:ILE:HG23	5:P:409:LYS:HB2	1.50	0.93
3:N:1101:VAL:HG22	3:N:1428:ALA:HB2	1.51	0.93
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.51	0.92
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.49	0.92
3:D:787:LEU:HD21	3:D:947:ILE:HD11	1.49	0.92
2:C:184:MET:HE1	2:C:186:VAL:HG13	1.52	0.92
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.52	0.92
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.53	0.91
2:C:710:ILE:HD11	2:C:758:ARG:HE	1.33	0.91
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.51	0.91
3:D:489:ARG:HE	3:D:493:ARG:HH22	1.18	0.91
2:M:95:TYR:HD2	2:M:114:PHE:HB3	1.37	0.91
3:N:32:ILE:HD12	3:N:527:MET:HG2	1.53	0.91
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.52	0.90
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.52	0.90
2:M:331:ARG:HH12	2:M:427:VAL:HG13	1.37	0.90
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.34	0.90
3:N:1137:ARG:H	3:N:1137:ARG:HD2	1.35	0.89
2:C:945:ARG:HB2	2:C:945:ARG:HH11	1.36	0.89
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.54	0.89
2:C:711:GLU:HG2	2:C:822:VAL:HG12	1.53	0.89
3:D:87:ARG:HG3	3:D:88:TYR:H	1.38	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:154:THR:HB	9:D:3232:HOH:O	1.72	0.89
2:C:405:ARG:HH21	2:C:566:THR:HG21	1.34	0.89
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.38	0.89
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.55	0.89
2:C:405:ARG:HH12	2:C:409:ARG:HH21	1.21	0.88
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.56	0.88
2:M:853:LEU:HD23	2:M:858:MET:HB3	1.52	0.88
2:C:207:LEU:HD22	2:C:221:LEU:HD21	1.56	0.88
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.53	0.88
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.56	0.88
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.39	0.88
2:C:938:LYS:HB3	2:C:939:ARG:HH21	1.39	0.88
9:K:4396:HOH:O	2:M:978:ARG:HA	1.74	0.87
1:L:57:TYR:HB3	1:L:141:GLU:HG3	1.55	0.87
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.55	0.87
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.56	0.87
3:N:65:ARG:HB2	5:P:375:LEU:HA	1.54	0.87
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.54	0.87
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.56	0.86
2:M:148:PHE:HB3	2:M:313:LEU:HD22	1.57	0.86
2:M:690:ILE:HB	2:M:852:ILE:HD13	1.56	0.86
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.55	0.86
5:P:252:ALA:HB1	5:P:265:VAL:HG21	1.58	0.86
3:N:646:LYS:HA	3:N:720:LEU:HD22	1.55	0.86
3:N:98:PRO:HG2	3:N:462:GLN:HE22	1.38	0.86
5:P:135:ILE:HD11	5:P:178:ARG:HD3	1.58	0.85
2:C:841:ASN:HD21	2:C:845:ASN:H	1.23	0.85
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.58	0.85
3:D:119:SER:HB2	3:D:123:LEU:H	1.41	0.85
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.58	0.85
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.57	0.85
3:N:172:PRO:HG3	3:N:178:LEU:HD22	1.59	0.85
3:D:44:LEU:HB2	9:D:9962:HOH:O	1.77	0.85
3:N:1389:LEU:H	3:N:1389:LEU:HD23	1.40	0.85
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.57	0.85
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.58	0.85
3:N:1090:ASP:HB3	3:N:1093:TYR:HB2	1.57	0.85
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.57	0.84
8:N:9100:G4P:H5"	8:N:9100:G4P:C8	2.04	0.84
2:M:1097:LEU:H	2:M:1097:LEU:HD22	1.42	0.84
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.57	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.59	0.84
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.59	0.84
3:N:67:ARG:HD3	5:P:375:LEU:HD11	1.58	0.84
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.60	0.84
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.60	0.84
3:D:679:ARG:HH12	3:D:681:ARG:HD2	1.44	0.83
3:D:85:VAL:HB	3:D:89:ARG:HE	1.44	0.83
2:M:536:PRO:HB3	2:M:906:PHE:HD1	1.39	0.83
2:M:265:ARG:HA	9:M:9500:HOH:O	1.78	0.83
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.61	0.83
3:N:119:SER:H	3:N:123:LEU:HD22	1.43	0.83
2:C:1109:VAL:HG11	3:D:5:VAL:HG22	1.61	0.83
1:L:206:THR:HG22	1:L:209:GLU:HB2	1.61	0.83
2:M:136:ILE:HA	9:M:9466:HOH:O	1.79	0.82
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.61	0.82
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.41	0.82
5:P:142:ARG:HB3	5:P:142:ARG:HH11	1.42	0.82
3:D:890:VAL:HG13	3:D:926:LYS:HD3	1.60	0.82
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.59	0.82
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.62	0.82
3:D:6:ARG:HB3	3:D:6:ARG:NH1	1.95	0.82
2:M:266:ARG:HD3	2:M:288:ARG:HH12	1.44	0.82
2:M:498:GLN:HG3	2:M:516:ARG:HH21	1.44	0.81
2:M:841:ASN:HD21	2:M:845:ASN:H	1.23	0.81
4:E:76:GLY:HA3	4:E:79:LEU:HD13	1.62	0.81
2:M:650:ARG:H	2:M:650:ARG:HE	1.25	0.81
3:N:141:ILE:HD13	3:N:450:TYR:H	1.45	0.81
1:A:180:GLN:HE22	2:C:934:PHE:HB2	1.44	0.81
2:C:238:LEU:HA	2:C:241:LEU:HD12	1.63	0.81
3:D:212:ARG:HB2	3:D:445:ARG:HH22	1.45	0.81
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.61	0.81
2:M:89:THR:HG23	2:M:129:ILE:HA	1.62	0.81
3:N:175:VAL:HG12	9:N:2205:HOH:O	1.80	0.81
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.62	0.81
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.60	0.81
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.61	0.81
3:N:422:ALA:HB1	5:P:178:ARG:NH1	1.96	0.81
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.62	0.81
2:C:89:THR:HG23	2:C:129:ILE:HA	1.59	0.81
2:C:139:GLN:HE22	2:C:415:PRO:HD2	1.45	0.81
2:C:244:PRO:HD2	2:C:245:GLY:H	1.42	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:112:ARG:HG2	9:K:1330:HOH:O	1.80	0.81
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.61	0.81
2:C:442:GLU:HG2	2:C:454:SER:HB2	1.62	0.81
2:C:1054:THR:HA	9:C:9720:HOH:O	1.80	0.81
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.63	0.81
3:N:565:ILE:H	3:N:565:ILE:HD12	1.45	0.81
3:D:780:LYS:HD3	3:D:912:LYS:HD3	1.61	0.81
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.61	0.81
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.61	0.81
3:N:131:LYS:HB2	3:N:456:MET:HE2	1.63	0.81
3:N:800:LYS:HG2	3:N:829:VAL:HG12	1.62	0.81
2:C:704:HIS:HB3	2:C:829:GLN:HE21	1.45	0.81
3:N:759:ALA:HA	3:N:763:MET:HE2	1.62	0.81
3:N:414:ARG:HD3	9:N:9486:HOH:O	1.81	0.80
3:N:116:LEU:HB3	3:N:118:LEU:HD13	1.63	0.80
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.61	0.80
3:D:704:ARG:HD2	3:D:705:ALA:H	1.47	0.80
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.64	0.80
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.61	0.80
2:C:971:LYS:HA	2:C:988:VAL:HA	1.62	0.80
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.61	0.80
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.64	0.80
2:M:238:LEU:HD23	2:M:241:LEU:HD12	1.64	0.80
3:N:899:LEU:HB2	3:N:917:GLN:HG2	1.61	0.80
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.63	0.80
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.64	0.80
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.61	0.80
3:D:210:ARG:HD2	3:D:398:ALA:HB3	1.64	0.80
2:M:192:PRO:HB2	2:M:195:LEU:HD13	1.63	0.80
2:C:690:ILE:HB	2:C:852:ILE:HD13	1.64	0.80
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.46	0.80
2:M:340:MET:HA	9:M:2031:HOH:O	1.82	0.79
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.63	0.79
1:B:132:LEU:HD11	1:B:138:LEU:HD12	1.64	0.79
3:N:654:LYS:HD3	3:N:674:ARG:HH12	1.45	0.79
3:D:87:ARG:HG3	3:D:88:TYR:N	1.97	0.79
3:D:87:ARG:O	3:D:521:PRO:HB3	1.82	0.79
1:L:58:ILE:HB	1:L:61:VAL:HB	1.63	0.79
2:M:331:ARG:HB2	9:M:9297:HOH:O	1.81	0.79
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.63	0.79
2:M:650:ARG:HG2	2:M:653:ASP:HB2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.62	0.79
3:N:87:ARG:O	3:N:521:PRO:HB3	1.83	0.79
2:C:290:LEU:H	2:C:290:LEU:HD13	1.47	0.79
3:D:427:VAL:HG23	9:D:2135:HOH:O	1.83	0.79
5:F:266:GLU:HA	5:F:269:ASN:HD22	1.47	0.79
3:N:87:ARG:HA	9:N:9625:HOH:O	1.83	0.79
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.65	0.79
8:N:9100:G4P:H8	8:N:9100:G4P:C5'	2.08	0.79
2:C:93:PRO:HA	9:C:9603:HOH:O	1.83	0.78
1:L:80:LEU:HD13	3:N:842:VAL:HG12	1.65	0.78
2:M:134:ARG:HA	9:M:9211:HOH:O	1.82	0.78
2:C:755:LEU:HD12	2:C:825:VAL:HG11	1.64	0.78
5:F:312:GLN:HB2	9:F:2094:HOH:O	1.84	0.78
3:N:135:LEU:HD11	3:N:452:ILE:HD11	1.64	0.78
2:C:325:ILE:HD12	2:C:325:ILE:H	1.47	0.78
2:M:693:GLU:HA	2:M:696:LYS:HG3	1.65	0.78
2:C:24:GLU:HB3	2:C:28:ARG:HH12	1.48	0.78
2:C:333:ILE:HG22	2:C:465:GLY:HA2	1.65	0.78
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.65	0.78
3:D:591:VAL:HG11	3:D:597:ASP:HA	1.66	0.78
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.65	0.78
2:C:42:VAL:HG12	2:C:43:GLY:H	1.48	0.78
3:D:1328:GLY:HA3	9:D:2287:HOH:O	1.84	0.78
5:F:164:LYS:HA	5:F:171:LYS:NZ	1.98	0.78
2:M:650:ARG:H	2:M:650:ARG:NE	1.81	0.78
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.49	0.78
2:M:44:ILE:HD11	2:M:340:MET:HE1	1.65	0.78
2:M:164:PRO:HA	2:M:266:ARG:HH22	1.47	0.78
2:C:66:LEU:HB2	9:C:2120:HOH:O	1.84	0.78
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.66	0.78
3:D:90:MET:HG2	3:D:521:PRO:HD3	1.65	0.78
2:M:314:THR:HG22	9:M:2325:HOH:O	1.84	0.78
3:D:978:TYR:HA	9:D:2242:HOH:O	1.83	0.77
3:N:1314:LYS:HZ1	3:N:1317:ASP:HB2	1.49	0.77
3:D:972:LEU:HG	3:D:976:GLN:HE22	1.47	0.77
1:K:34:VAL:HG21	9:M:9419:HOH:O	1.84	0.77
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.64	0.77
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.66	0.77
1:B:58:ILE:HB	1:B:61:VAL:HB	1.66	0.77
3:D:553:ARG:HH21	5:F:215:GLU:HG2	1.48	0.77
3:D:759:ALA:HA	3:D:763:MET:HE2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:214:GLN:HA	5:F:217:ASN:HD22	1.48	0.77
1:K:195:LEU:HG	9:K:1736:HOH:O	1.84	0.77
3:D:191:LEU:HB3	3:D:195:VAL:HG21	1.65	0.77
3:D:907:GLU:HA	9:D:9566:HOH:O	1.83	0.77
2:M:42:VAL:HG12	2:M:43:GLY:H	1.49	0.77
2:M:66:LEU:HD13	2:M:100:LEU:HB3	1.64	0.77
2:C:715:THR:HG22	2:C:717:LEU:H	1.47	0.77
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.67	0.77
3:D:98:PRO:HG3	3:D:515:GLU:HB3	1.67	0.77
3:D:1388:ARG:N	3:D:1388:ARG:HH11	1.83	0.77
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.67	0.77
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.67	0.77
3:D:500:ARG:NH2	3:D:1388:ARG:HE	1.83	0.77
2:M:164:PRO:HA	2:M:266:ARG:HH12	1.49	0.77
2:M:971:LYS:HA	2:M:988:VAL:HA	1.65	0.77
1:K:53:VAL:HG12	1:K:167:VAL:HG21	1.67	0.77
1:K:136:GLY:HA3	9:K:1268:HOH:O	1.85	0.77
3:N:119:SER:HB2	3:N:123:LEU:H	1.49	0.77
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.67	0.77
2:C:575:GLN:H	2:C:667:ALA:HB1	1.49	0.76
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.65	0.76
3:N:783:ARG:NH1	3:N:1029:ARG:HG2	2.00	0.76
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.67	0.76
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.65	0.76
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.67	0.76
2:C:689:VAL:HG21	9:C:9624:HOH:O	1.86	0.76
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.66	0.76
3:D:777:PRO:HA	9:D:9581:HOH:O	1.85	0.76
3:D:583:ASP:OD1	3:D:604:THR:HB	1.84	0.76
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.68	0.76
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.50	0.76
3:N:481:MET:HE3	3:N:493:ARG:HE	1.51	0.76
2:C:495:THR:HG23	2:C:517:ARG:HE	1.50	0.76
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.68	0.76
8:N:9101:G4P:C8	8:N:9101:G4P:H5"	2.15	0.76
3:D:1197:ARG:HD2	3:D:1396:GLU:HB2	1.68	0.76
2:M:499:ALA:HA	2:M:532:MET:HE3	1.68	0.76
3:N:41:ARG:HB2	9:N:2916:HOH:O	1.86	0.76
2:C:172:ILE:HG23	2:C:184:MET:HE3	1.65	0.76
2:C:627:ARG:H	2:C:627:ARG:NE	1.83	0.76
1:K:58:ILE:HB	1:K:61:VAL:HB	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:12:MET:HE1	4:O:69:LEU:HA	1.67	0.76
1:L:76:VAL:HB	3:N:872:ARG:HH22	1.51	0.75
3:N:1194:CYS:HA	9:N:9487:HOH:O	1.86	0.75
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.67	0.75
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.66	0.75
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.66	0.75
1:K:214:ALA:HA	1:K:217:ILE:HD12	1.68	0.75
2:M:598:GLU:O	2:M:651:LYS:HG3	1.86	0.75
2:M:1005:MET:HG3	3:N:629:SER:HB2	1.68	0.75
1:A:67:THR:HA	9:A:9794:HOH:O	1.86	0.75
1:B:13:VAL:HA	9:B:9669:HOH:O	1.86	0.75
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.69	0.75
2:M:100:LEU:HD21	2:M:368:THR:HA	1.67	0.75
3:N:1381:VAL:HB	3:N:1389:LEU:O	1.86	0.75
5:P:416:ARG:HD2	5:P:419:ARG:HB2	1.67	0.75
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.69	0.75
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.67	0.75
2:M:571:LEU:HD23	2:M:700:TYR:HA	1.68	0.75
9:N:9282:HOH:O	4:O:17:TYR:HB3	1.86	0.75
2:C:89:THR:HA	2:C:129:ILE:O	1.86	0.75
3:D:699:VAL:HG22	3:D:756:GLN:HE22	1.50	0.75
3:D:868:TYR:HD1	3:D:869:MET:H	1.31	0.75
3:D:1137:ARG:H	3:D:1137:ARG:HD2	1.52	0.75
4:E:28:GLN:HB3	9:E:9553:HOH:O	1.87	0.75
2:M:442:GLU:HB3	9:M:9245:HOH:O	1.87	0.75
2:M:724:ARG:HB2	2:M:740:GLU:HA	1.69	0.75
2:M:786:LYS:HD2	9:M:9396:HOH:O	1.85	0.75
2:C:500:ASN:HA	9:C:9718:HOH:O	1.86	0.75
2:M:1013:TYR:HE2	5:P:341:PRO:HD2	1.51	0.75
3:N:794:GLN:NE2	3:N:795:VAL:H	1.85	0.75
3:N:1217:ILE:HD12	3:N:1217:ILE:H	1.50	0.75
1:L:27:PRO:HG2	1:L:186:LEU:HD12	1.68	0.75
2:M:338:GLU:HA	2:M:341:THR:HG22	1.68	0.74
2:M:711:GLU:HG2	2:M:822:VAL:HG12	1.69	0.74
2:C:181:VAL:HB	9:C:9674:HOH:O	1.86	0.74
3:N:133:ILE:HD13	3:N:454:ALA:HB1	1.69	0.74
2:C:737:LEU:HB3	9:C:9568:HOH:O	1.86	0.74
2:M:838:LYS:HG3	2:M:997:LEU:HB2	1.70	0.74
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.67	0.74
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.52	0.74
2:M:324:ASP:HB3	2:M:327:HIS:HD2	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:393:THR:HG22	5:P:394:ARG:H	1.51	0.74
2:C:1016:ILE:HD12	5:F:317:LEU:HD21	1.67	0.74
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.70	0.74
2:M:965:GLU:HA	2:M:968:LEU:HD12	1.69	0.74
3:N:152:LEU:HD23	3:N:152:LEU:H	1.51	0.74
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.68	0.74
1:K:56:VAL:HG13	1:K:142:VAL:HG12	1.70	0.74
2:C:753:ASP:HA	9:D:9567:HOH:O	1.88	0.74
5:F:393:THR:HG22	5:F:394:ARG:H	1.52	0.74
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.02	0.74
1:A:58:ILE:HB	1:A:61:VAL:HB	1.69	0.74
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.69	0.74
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.70	0.74
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.68	0.74
2:M:328:LEU:HD12	9:M:9297:HOH:O	1.87	0.74
2:M:585:GLU:HB2	9:M:9626:HOH:O	1.88	0.74
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.70	0.74
2:M:734:LEU:HD13	2:M:737:LEU:HD13	1.69	0.74
3:N:1382:THR:HG21	3:N:1418:LYS:HE3	1.70	0.73
3:N:1402:ALA:HB1	9:N:9626:HOH:O	1.88	0.73
9:C:9690:HOH:O	3:D:1064:GLY:HA2	1.87	0.73
3:D:756:GLN:HE21	3:D:760:ARG:HD2	1.51	0.73
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.68	0.73
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.70	0.73
3:N:890:VAL:HA	9:N:9430:HOH:O	1.88	0.73
3:N:1116:ASN:ND2	3:N:1193:THR:HB	2.03	0.73
2:C:724:ARG:HB2	2:C:740:GLU:HA	1.68	0.73
2:C:948:GLU:HA	9:C:2299:HOH:O	1.87	0.73
2:M:580:MET:HB2	9:M:9244:HOH:O	1.87	0.73
3:N:455:ARG:HH22	5:P:140:ARG:HB3	1.53	0.73
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.69	0.73
2:M:336:VAL:HA	2:M:339:LEU:HD12	1.68	0.73
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	1.88	0.73
3:D:534:ARG:HA	9:F:2094:HOH:O	1.88	0.73
2:M:89:THR:HA	2:M:129:ILE:O	1.88	0.73
2:M:325:ILE:HB	9:M:9421:HOH:O	1.88	0.73
2:M:395:LYS:HG2	2:M:397:GLU:HG2	1.71	0.73
2:M:546:LEU:HD12	2:M:565:GLN:NE2	2.01	0.73
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.51	0.73
2:M:568:ALA:HB1	2:M:668:LEU:HB3	1.69	0.73
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:441:ARG:HB3	3:N:443:VAL:HG23	1.69	0.73
3:D:1252:ILE:HG22	3:D:1253:THR:H	1.53	0.73
2:M:94:LEU:HA	9:M:9263:HOH:O	1.86	0.73
2:M:968:LEU:HB3	9:M:9311:HOH:O	1.88	0.73
5:F:164:LYS:HA	5:F:171:LYS:HZ3	1.54	0.73
3:N:52:PRO:HG2	9:N:9465:HOH:O	1.88	0.73
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.71	0.73
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.69	0.73
3:D:1496:GLU:HG3	3:D:1500:LYS:HE3	1.71	0.73
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.52	0.73
1:L:120:VAL:HG23	9:L:3068:HOH:O	1.89	0.73
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.71	0.73
5:P:287:THR:HG23	5:P:289:GLU:HB2	1.70	0.73
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.53	0.73
2:M:492:ASP:HA	2:M:518:LYS:HB3	1.70	0.73
3:N:195:VAL:HB	3:N:205:TYR:HB2	1.69	0.73
3:D:675:ARG:O	3:D:678:GLU:HG2	1.88	0.72
4:E:6:ILE:HA	4:E:9:LEU:HD12	1.71	0.72
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.71	0.72
4:O:8:LYS:HG3	9:O:1143:HOH:O	1.89	0.72
1:A:166:PRO:HB3	9:A:9709:HOH:O	1.89	0.72
1:A:214:ALA:HA	1:A:217:ILE:HD12	1.68	0.72
2:C:118:ILE:H	2:C:118:ILE:HD13	1.53	0.72
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.71	0.72
3:N:1422:MET:HE2	3:N:1427:SER:HA	1.70	0.72
3:D:534:ARG:HH21	5:F:315:VAL:HG21	1.54	0.72
1:L:9:PRO:HB3	1:L:25:LEU:HG	1.71	0.72
2:M:176:VAL:HG22	2:M:182:VAL:HG13	1.70	0.72
2:C:1102:LEU:HB3	9:C:9776:HOH:O	1.89	0.72
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.70	0.72
1:L:89:PHE:HB3	1:L:94:LEU:HD13	1.71	0.72
3:N:1310:ARG:HE	3:N:1327:ARG:HB3	1.53	0.72
4:O:87:LYS:HE2	4:O:91:ARG:HH21	1.53	0.72
3:D:566:ILE:HD11	5:F:192:LEU:HD21	1.71	0.72
3:D:1063:GLU:HG2	3:D:1064:GLY:H	1.54	0.72
3:D:1254:GLN:HB2	9:D:2152:HOH:O	1.88	0.72
3:D:1378:TYR:O	3:D:1420:LEU:HB3	1.90	0.72
1:L:204:SER:HA	9:L:2931:HOH:O	1.89	0.72
3:N:1118:ILE:HD11	3:N:1346:ARG:HE	1.53	0.72
3:N:1166:LEU:H	3:N:1166:LEU:HD23	1.54	0.72
2:C:1013:TYR:HB2	5:F:335:ASP:OD2	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:31:THR:HA	9:D:9962:HOH:O	1.88	0.72
3:D:475:LYS:HA	3:D:478:LEU:HD12	1.70	0.72
3:D:838:ARG:HH12	3:D:863:VAL:HG12	1.53	0.72
5:F:273:ARG:HA	5:F:276:ARG:HH11	1.54	0.72
5:F:416:ARG:HD2	5:F:419:ARG:HB2	1.71	0.72
1:B:23:PHE:HA	9:B:9669:HOH:O	1.89	0.72
3:D:54:LYS:HD3	3:D:55:ASP:H	1.54	0.72
3:N:1495:ILE:HA	9:N:9438:HOH:O	1.87	0.72
1:L:225:PHE:HA	9:L:2122:HOH:O	1.90	0.72
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.04	0.72
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.72	0.72
3:D:615:ARG:O	3:D:619:LEU:HB2	1.90	0.72
3:D:834:THR:OG1	3:D:838:ARG:HB3	1.89	0.72
1:A:88:ARG:HD2	1:A:123:MET:HE2	1.70	0.71
3:D:601:ARG:HH12	3:D:613:ARG:HH21	1.38	0.71
2:M:324:ASP:HA	9:M:2460:HOH:O	1.90	0.71
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.69	0.71
3:D:699:VAL:HG22	3:D:756:GLN:NE2	2.06	0.71
3:N:537:THR:C	5:P:317:LEU:HB2	2.15	0.71
3:N:692:GLU:HG2	3:N:720:LEU:HD12	1.71	0.71
2:C:689:VAL:CG2	2:C:870:ILE:HB	2.20	0.71
2:C:777:ILE:HG12	9:C:2212:HOH:O	1.89	0.71
1:B:123:MET:HG2	9:B:9676:HOH:O	1.90	0.71
1:K:94:LEU:HD21	1:K:119:ASP:HB2	1.71	0.71
1:K:117:VAL:HG22	9:K:4167:HOH:O	1.88	0.71
2:M:144:PRO:HA	2:M:163:ILE:HG23	1.73	0.71
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.55	0.71
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.72	0.71
2:C:405:ARG:HD3	2:C:543:ASN:CG	2.16	0.71
3:N:162:ARG:HA	3:N:449:SER:HB3	1.71	0.71
5:P:131:VAL:HG13	5:P:178:ARG:HG2	1.72	0.71
2:C:371:LYS:O	2:C:372:LEU:HD12	1.91	0.71
3:D:1346:ARG:HA	3:D:1346:ARG:HE	1.54	0.71
1:L:176:ARG:HH12	3:N:884:ARG:NE	1.89	0.71
3:N:1127:GLU:HB3	9:N:9298:HOH:O	1.90	0.71
3:N:1330:ILE:HA	9:N:9632:HOH:O	1.90	0.71
5:F:309:LYS:HA	5:F:312:GLN:OE1	1.91	0.71
2:M:584:GLU:HG2	9:M:9244:HOH:O	1.90	0.71
2:M:1115:LEU:HD23	3:N:85:VAL:HA	1.73	0.71
2:C:536:PRO:HD2	2:C:537:LYS:NZ	2.06	0.71
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:167:VAL:HG22	9:L:2964:HOH:O	1.90	0.71
2:M:218:VAL:HG22	2:M:221:LEU:HD23	1.71	0.71
5:P:156:VAL:HA	5:P:159:ILE:HD12	1.72	0.71
2:M:184:MET:HG3	2:M:193:LEU:HD23	1.72	0.71
2:M:468:ARG:HB3	9:M:9590:HOH:O	1.90	0.71
2:M:621:VAL:HB	9:M:9858:HOH:O	1.91	0.71
2:M:882:LEU:HD12	3:N:1061:PHE:HB3	1.73	0.71
3:N:662:GLU:HB2	9:N:9379:HOH:O	1.89	0.71
3:N:810:GLU:O	3:N:813:LEU:HG	1.91	0.71
3:N:827:ILE:HA	9:N:9636:HOH:O	1.89	0.71
1:A:158:ILE:HG12	9:A:9709:HOH:O	1.90	0.70
2:C:259:GLY:HA3	9:C:2199:HOH:O	1.91	0.70
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.71	0.70
2:C:889:HIS:HE1	3:D:951:ILE:H	1.38	0.70
3:D:486:ARG:HH21	3:D:489:ARG:NE	1.88	0.70
1:L:41:ARG:HH11	1:L:177:VAL:HB	1.56	0.70
2:M:101:ILE:HG22	2:M:102:HIS:H	1.56	0.70
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.73	0.70
2:C:957:LYS:HB3	9:C:9884:HOH:O	1.90	0.70
3:D:1422:MET:HE2	3:D:1427:SER:HA	1.72	0.70
2:M:176:VAL:HG13	2:M:182:VAL:HG22	1.73	0.70
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.73	0.70
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.71	0.70
3:N:64:LYS:HB2	5:P:376:ILE:O	1.91	0.70
2:C:86:LYS:HG3	2:C:813:VAL:HG12	1.72	0.70
2:C:874:LEU:HB2	9:C:2136:HOH:O	1.91	0.70
3:D:1432:LYS:CD	3:D:1433:SER:H	2.01	0.70
3:D:1462:LEU:HD23	9:D:3112:HOH:O	1.89	0.70
2:M:290:LEU:HD12	2:M:302:VAL:HG11	1.72	0.70
2:M:413:LEU:H	2:M:413:LEU:HD12	1.56	0.70
2:C:285:LEU:HD21	2:C:289:THR:HA	1.73	0.70
2:C:336:VAL:HB	9:C:9899:HOH:O	1.91	0.70
3:N:507:ASN:HA	9:N:9943:HOH:O	1.91	0.70
3:N:984:THR:H	3:N:987:GLU:CD	1.99	0.70
3:N:1373:ARG:HG2	3:N:1374:GLN:NE2	2.06	0.70
3:N:1410:GLU:HA	9:N:9265:HOH:O	1.91	0.70
2:C:13:ILE:HD12	9:C:9856:HOH:O	1.91	0.70
2:C:385:PHE:O	2:C:389:SER:HB3	1.91	0.70
2:C:1115:LEU:HD23	3:D:85:VAL:HG12	1.74	0.70
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.74	0.70
3:D:815:ALA:HB3	9:D:9733:HOH:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.74	0.70
2:M:710:ILE:HB	2:M:790:LEU:HD13	1.73	0.70
1:A:146:ARG:HG2	9:A:9574:HOH:O	1.91	0.70
1:B:133:GLU:HG3	1:B:134:GLU:H	1.56	0.70
2:C:473:ARG:HE	2:C:531:PHE:HE1	1.39	0.70
3:N:709:HIS:HA	3:N:1227:GLN:HG2	1.73	0.70
1:K:91:ASN:HA	9:K:1224:HOH:O	1.91	0.70
2:M:1119:ARG:HA	2:M:1119:ARG:HE	1.57	0.70
5:P:184:ARG:HG2	5:P:188:ILE:HD11	1.74	0.70
2:C:861:LEU:HD23	2:C:863:ASP:H	1.57	0.70
3:D:119:SER:CB	3:D:123:LEU:HB2	2.22	0.70
4:E:25:LYS:HA	4:E:28:GLN:CD	2.16	0.70
4:E:32:ARG:HD3	9:E:9553:HOH:O	1.91	0.70
2:M:130:ASN:HA	9:M:2315:HOH:O	1.91	0.70
2:M:707:ARG:HD2	9:M:9630:HOH:O	1.91	0.70
1:A:219:ARG:HH12	1:B:219:ARG:HG2	1.57	0.70
2:C:405:ARG:NH1	2:C:409:ARG:HH21	1.90	0.70
2:C:689:VAL:HG23	2:C:870:ILE:HB	1.73	0.70
1:L:151:VAL:HB	1:L:169:ALA:HB3	1.74	0.70
3:D:1422:MET:HE3	3:D:1426:LYS:HG2	1.73	0.70
5:F:135:ILE:HD11	5:F:178:ARG:HD2	1.73	0.70
3:N:131:LYS:HA	3:N:456:MET:HG3	1.72	0.70
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.06	0.69
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.72	0.69
2:C:69:LEU:HB2	2:C:97:ARG:HB2	1.72	0.69
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.07	0.69
2:M:288:ARG:HH11	2:M:288:ARG:HG3	1.55	0.69
2:M:776:SER:HA	2:M:780:GLU:HB3	1.73	0.69
1:A:22:GLU:HB3	9:A:9573:HOH:O	1.92	0.69
2:C:197:LEU:HD13	2:C:207:LEU:HD21	1.74	0.69
3:D:710:ARG:HG2	3:D:710:ARG:HH11	1.56	0.69
3:D:1122:LEU:HD11	3:D:1186:VAL:HG23	1.72	0.69
5:F:270:LYS:HB3	5:F:295:MET:SD	2.31	0.69
1:L:62:LEU:HD12	9:L:6647:HOH:O	1.91	0.69
2:M:412:ALA:HA	9:M:9312:HOH:O	1.91	0.69
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.73	0.69
3:N:1157:GLY:HA3	9:N:9424:HOH:O	1.92	0.69
2:C:776:SER:HA	2:C:780:GLU:HB3	1.72	0.69
3:D:537:THR:HG22	9:F:9559:HOH:O	1.91	0.69
2:M:39:ARG:HA	2:M:39:ARG:NE	2.07	0.69
2:M:284:ARG:HG2	2:M:285:LEU:H	1.54	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:777:ILE:O	5:P:409:LYS:HD2	1.92	0.69
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.73	0.69
2:C:969:GLN:HB3	9:C:9615:HOH:O	1.91	0.69
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.75	0.69
4:E:40:LEU:HD13	4:E:45:ARG:HD2	1.74	0.69
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.73	0.69
3:N:711:LEU:HD11	9:N:9759:HOH:O	1.92	0.69
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.74	0.69
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.23	0.69
3:D:119:SER:H	3:D:123:LEU:HD13	1.56	0.69
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.73	0.69
5:F:366:ALA:HB2	9:F:2032:HOH:O	1.91	0.69
2:C:557:ARG:NH1	2:C:879:ARG:HE	1.90	0.69
2:C:710:ILE:HD11	2:C:758:ARG:NE	2.07	0.69
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.57	0.69
3:D:838:ARG:HA	9:D:9613:HOH:O	1.92	0.69
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.73	0.69
2:M:803:THR:HG22	2:M:825:VAL:HG13	1.75	0.69
1:B:88:ARG:HD2	1:B:123:MET:HE2	1.75	0.69
2:C:436:GLY:HA2	2:C:538:GLN:O	1.92	0.69
3:D:156:GLU:HB2	9:D:3232:HOH:O	1.93	0.69
3:D:994:GLN:HB2	9:D:2834:HOH:O	1.93	0.69
1:L:112:ARG:HD2	9:L:1944:HOH:O	1.92	0.69
2:M:833:LEU:HD11	2:M:849:VAL:HG21	1.75	0.69
2:M:979:THR:HG23	2:M:981:GLU:H	1.55	0.69
5:P:337:HIS:HA	9:P:2159:HOH:O	1.92	0.69
2:C:102:HIS:HE1	2:C:367:LEU:HD21	1.56	0.69
2:C:148:PHE:HZ	2:C:281:LEU:HD13	1.56	0.69
3:D:549:ASN:HB3	9:D:2045:HOH:O	1.92	0.69
1:L:88:ARG:HD2	1:L:123:MET:HE2	1.73	0.69
2:M:336:VAL:HG21	9:M:9234:HOH:O	1.93	0.69
2:M:436:GLY:HA2	2:M:538:GLN:O	1.93	0.69
3:N:527:MET:HE2	3:N:535:PHE:HB3	1.75	0.69
4:E:51:LEU:HG	4:E:53:GLY:H	1.58	0.69
2:M:89:THR:O	2:M:91:GLN:HG3	1.93	0.69
3:N:127:LEU:HD21	3:N:461:ILE:HD11	1.74	0.69
3:N:192:ALA:O	3:N:195:VAL:HG23	1.93	0.69
3:N:447:VAL:HG11	9:N:2028:HOH:O	1.93	0.69
4:O:70:THR:HG22	9:O:1901:HOH:O	1.93	0.69
1:A:53:VAL:HG12	1:A:167:VAL:HG21	1.72	0.69
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:116:LEU:HB3	3:D:118:LEU:HD13	1.73	0.69
3:D:179:VAL:HG22	3:D:389:GLU:HG3	1.75	0.69
5:F:388:ALA:HB3	9:F:9936:HOH:O	1.92	0.69
1:K:86:VAL:HG12	1:K:124:ASN:ND2	2.08	0.69
2:M:3:ILE:HG21	9:M:2484:HOH:O	1.93	0.69
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.57	0.69
2:M:328:LEU:HD13	2:M:433:THR:OG1	1.92	0.68
3:N:119:SER:OG	3:N:123:LEU:HD13	1.94	0.68
3:N:194:GLY:HA2	3:N:206:ARG:HD2	1.76	0.68
1:A:9:PRO:HB3	1:A:25:LEU:HG	1.75	0.68
3:D:162:ARG:NH2	3:D:434:ARG:HH21	1.90	0.68
3:D:194:GLY:HA2	3:D:206:ARG:HD2	1.74	0.68
3:D:798:GLU:HG2	3:D:799:LYS:H	1.57	0.68
3:D:1376:MET:HE3	3:D:1421:LEU:HB2	1.75	0.68
3:N:1118:ILE:HD11	3:N:1346:ARG:NE	2.08	0.68
1:A:117:VAL:HG12	9:A:9774:HOH:O	1.94	0.68
2:C:237:ARG:HG2	9:C:2116:HOH:O	1.94	0.68
2:M:511:GLU:O	2:M:526:PRO:HD3	1.94	0.68
3:N:216:VAL:HA	9:N:2353:HOH:O	1.91	0.68
3:N:477:LEU:HD21	3:N:495:ARG:HE	1.56	0.68
2:C:751:PRO:HB2	3:D:680:GLN:HG3	1.74	0.68
5:F:76:SER:HB3	9:F:9637:HOH:O	1.92	0.68
3:N:1239:ARG:HB2	9:N:2464:HOH:O	1.92	0.68
1:B:64:GLU:HA	1:B:165:ILE:HD13	1.75	0.68
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.08	0.68
3:N:141:ILE:H	3:N:141:ILE:HD12	1.58	0.68
3:N:161:LEU:HD21	3:N:452:ILE:HD13	1.75	0.68
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.18	0.68
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.76	0.68
3:D:73:CYS:HB3	3:D:76:CYS:O	1.93	0.68
3:D:411:THR:HG21	9:D:9778:HOH:O	1.94	0.68
3:N:796:ARG:HH21	3:N:828:LYS:HE2	1.58	0.68
3:N:1435:LEU:HG	3:N:1467:ILE:HD12	1.76	0.68
2:C:492:ASP:HA	2:C:518:LYS:HB3	1.74	0.68
2:C:1014:SER:HB3	9:C:9664:HOH:O	1.92	0.68
3:D:173:PRO:HD3	3:D:178:LEU:HD12	1.75	0.68
3:D:935:LYS:HB3	3:D:935:LYS:HZ2	1.57	0.68
3:D:1077:ALA:HB2	9:D:9673:HOH:O	1.93	0.68
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.59	0.68
3:N:90:MET:HG2	3:N:521:PRO:HD3	1.75	0.68
5:P:273:ARG:HG3	9:P:1952:HOH:O	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:24:GLU:HB3	2:C:28:ARG:NH1	2.09	0.68
2:C:577:PRO:HA	2:C:671:ASN:ND2	2.02	0.68
3:D:804:LEU:HD21	3:D:829:VAL:HG21	1.76	0.68
3:D:876:SER:O	3:D:880:ILE:HG12	1.93	0.68
3:D:914:LEU:HA	9:D:2987:HOH:O	1.94	0.68
3:N:119:SER:HB3	9:N:9548:HOH:O	1.94	0.68
3:N:1277:ILE:HD12	9:N:9684:HOH:O	1.94	0.68
3:D:481:MET:HG3	3:D:493:ARG:HG2	1.75	0.68
3:D:976:GLN:HA	9:D:9904:HOH:O	1.94	0.68
2:M:164:PRO:CA	2:M:266:ARG:HH22	2.07	0.68
1:B:208:LEU:HD23	9:B:9568:HOH:O	1.94	0.68
2:C:760:SER:O	2:C:785:VAL:HG22	1.94	0.68
2:C:952:LEU:HD12	2:C:969:GLN:NE2	2.07	0.68
3:D:1401:GLU:HB3	9:D:9816:HOH:O	1.93	0.68
1:K:71:VAL:HA	9:K:1208:HOH:O	1.93	0.68
9:K:5477:HOH:O	2:M:605:LYS:HA	1.93	0.68
4:O:70:THR:HG21	9:O:2018:HOH:O	1.94	0.68
3:D:1335:LEU:HD23	3:D:1344:VAL:HA	1.76	0.67
2:M:284:ARG:HG2	2:M:285:LEU:N	2.09	0.67
5:P:132:ARG:O	5:P:136:LEU:HG	1.94	0.67
2:C:12:VAL:HG22	2:C:13:ILE:HG23	1.76	0.67
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.75	0.67
2:C:358:ARG:HH21	2:C:373:VAL:N	1.91	0.67
3:D:68:PHE:HB3	9:D:9610:HOH:O	1.94	0.67
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.77	0.67
3:D:730:PRO:HA	3:D:733:CYS:SG	2.35	0.67
3:D:785:ILE:HG12	3:D:935:LYS:HA	1.73	0.67
5:F:77:THR:O	5:F:81:VAL:HG23	1.94	0.67
3:N:399:ARG:HG3	9:N:2124:HOH:O	1.94	0.67
5:P:373:LYS:HG2	9:P:2070:HOH:O	1.94	0.67
1:A:151:VAL:HB	1:A:169:ALA:HB3	1.76	0.67
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.75	0.67
3:D:488:ARG:H	3:D:488:ARG:NE	1.92	0.67
3:N:167:GLU:HA	9:N:9499:HOH:O	1.95	0.67
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.94	0.67
1:B:41:ARG:HH11	1:B:177:VAL:HB	1.58	0.67
2:C:31:GLN:NE2	2:C:40:GLU:HB2	2.09	0.67
2:C:54:ILE:HG21	9:C:2671:HOH:O	1.94	0.67
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.77	0.67
5:F:321:ILE:HD11	5:F:329:TYR:HB2	1.75	0.67
2:M:183:SER:HB3	2:M:190:LYS:HD3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:716:LYS:HA	2:M:716:LYS:HE3	1.75	0.67
3:N:1121:PRO:HD3	3:N:1346:ARG:NH2	2.09	0.67
5:P:163:LEU:HD22	5:P:174:LEU:HG	1.77	0.67
2:C:1049:LEU:HD22	3:D:1472:ILE:HD11	1.77	0.67
3:D:1131:SER:O	3:D:1133:ARG:HG3	1.95	0.67
2:M:52:PHE:HB3	9:M:9629:HOH:O	1.95	0.67
2:C:23:VAL:HG12	9:C:2056:HOH:O	1.95	0.67
2:C:266:ARG:HD3	2:C:288:ARG:HE	1.57	0.67
2:C:841:ASN:HD21	2:C:845:ASN:N	1.93	0.67
2:C:1019:GLN:HG2	9:C:9664:HOH:O	1.95	0.67
3:D:576:GLU:HG3	9:F:9597:HOH:O	1.94	0.67
3:D:699:VAL:HG12	3:D:717:GLN:HG2	1.77	0.67
3:D:1395:LEU:HB2	9:D:2424:HOH:O	1.93	0.67
1:K:222:LEU:HD12	1:L:215:VAL:HB	1.75	0.67
2:M:50:GLU:HG2	2:M:265:ARG:NH1	2.09	0.67
2:M:339:LEU:HG	9:M:9771:HOH:O	1.95	0.67
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.77	0.67
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.75	0.67
5:F:218:GLN:HA	5:F:221:ILE:HD12	1.75	0.67
5:F:234:LYS:HD3	5:F:236:SER:HB2	1.77	0.67
1:L:132:LEU:HB3	9:L:1114:HOH:O	1.95	0.67
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.76	0.67
3:N:1381:VAL:HG23	9:N:9527:HOH:O	1.95	0.67
1:A:66:SER:HA	9:A:9605:HOH:O	1.94	0.67
1:K:12:THR:HG23	1:K:24:VAL:HB	1.76	0.67
1:L:77:GLU:HB3	9:L:1341:HOH:O	1.95	0.67
2:M:266:ARG:HD3	2:M:288:ARG:NH1	2.10	0.67
2:M:290:LEU:HB3	2:M:302:VAL:HG11	1.77	0.67
1:A:11:PHE:HB2	9:A:9706:HOH:O	1.94	0.67
1:A:41:ARG:HH11	1:A:177:VAL:HB	1.59	0.67
1:B:132:LEU:HB3	9:B:9733:HOH:O	1.94	0.67
2:C:300:ASP:OD2	2:C:303:PHE:HB2	1.94	0.67
2:C:673:LEU:HD22	2:C:867:VAL:HA	1.76	0.67
3:D:28:LYS:HD2	3:D:41:ARG:HD2	1.76	0.67
5:F:158:GLU:HA	5:F:161:GLN:CD	2.19	0.67
1:K:102:LYS:HG3	9:K:2209:HOH:O	1.95	0.67
2:M:269:LEU:HA	2:M:288:ARG:HD2	1.77	0.67
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.76	0.67
2:M:1090:LYS:HE2	3:N:88:TYR:O	1.95	0.67
3:N:699:VAL:H	3:N:756:GLN:NE2	1.93	0.67
3:N:1336:LEU:HD22	3:N:1421:LEU:HB2	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:102:LEU:O	5:P:106:VAL:HG23	1.95	0.67
1:B:9:PRO:HB3	1:B:25:LEU:HG	1.77	0.66
2:C:267:TYR:HE1	2:C:338:GLU:HG3	1.60	0.66
1:L:86:VAL:HG12	1:L:124:ASN:ND2	2.10	0.66
2:M:397:GLU:HG3	2:M:633:GLN:HE22	1.60	0.66
2:M:489:THR:HA	9:M:9368:HOH:O	1.94	0.66
2:M:841:ASN:HD21	2:M:845:ASN:N	1.93	0.66
3:N:1313:VAL:HA	9:N:9426:HOH:O	1.94	0.66
5:P:358:LEU:HD11	5:P:370:LYS:HD2	1.77	0.66
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.60	0.66
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.76	0.66
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.76	0.66
2:M:16:PRO:HB2	2:M:460:ARG:HD3	1.78	0.66
2:M:490:GLU:HG2	2:M:494:TYR:HE1	1.59	0.66
2:M:759:THR:HB	2:M:785:VAL:HG11	1.77	0.66
2:M:1054:THR:HG21	2:M:1079:PRO:CB	2.25	0.66
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.77	0.66
3:N:1301:LYS:HG2	9:N:2064:HOH:O	1.96	0.66
1:A:2:LEU:HA	1:A:6:LEU:HD22	1.77	0.66
1:B:46:SER:O	1:B:148:VAL:HB	1.95	0.66
2:C:428:ARG:HH21	2:C:451:LEU:HD11	1.59	0.66
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.77	0.66
3:D:178:LEU:HG	3:D:200:ASP:H	1.61	0.66
1:K:97:VAL:HG23	9:K:1044:HOH:O	1.95	0.66
3:N:197:SER:HB2	3:N:205:TYR:CE1	2.30	0.66
1:A:185:ARG:HD2	9:A:9581:HOH:O	1.95	0.66
2:C:527:GLU:HG3	9:C:2408:HOH:O	1.95	0.66
3:D:168:THR:HB	3:D:393:ILE:HD12	1.78	0.66
3:D:1314:LYS:HG2	9:D:2456:HOH:O	1.94	0.66
4:E:46:PRO:HD3	4:E:66:LYS:HG2	1.77	0.66
1:L:186:LEU:HB2	9:L:1608:HOH:O	1.96	0.66
2:C:130:ASN:HA	9:C:9898:HOH:O	1.94	0.66
2:C:783:ARG:HG2	2:C:785:VAL:HB	1.78	0.66
3:D:684:LYS:HE2	9:D:9654:HOH:O	1.94	0.66
5:F:128:ARG:HD2	9:F:9581:HOH:O	1.96	0.66
2:M:162:ILE:HD12	2:M:172:ILE:HB	1.77	0.66
3:N:95:LEU:HD12	3:N:515:GLU:HA	1.77	0.66
3:N:825:ALA:HB1	9:N:9618:HOH:O	1.95	0.66
3:N:1242:HIS:CE1	3:N:1266:ARG:HH11	2.13	0.66
5:P:302:LYS:HB3	9:P:3098:HOH:O	1.95	0.66
1:B:137:ARG:HH12	1:B:139:ASN:HB3	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:780:GLU:HG3	2:C:781:LYS:H	1.61	0.66
5:F:113:ILE:HG23	5:F:127:ILE:HB	1.76	0.66
5:P:140:ARG:HG3	9:P:2295:HOH:O	1.95	0.66
2:C:250:ARG:NH2	2:C:254:VAL:HB	2.11	0.66
3:D:97:THR:HG22	9:D:9686:HOH:O	1.96	0.66
9:D:2753:HOH:O	5:F:171:LYS:HG2	1.94	0.66
3:N:899:LEU:HD23	3:N:917:GLN:HB3	1.78	0.66
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.61	0.66
5:P:158:GLU:HA	5:P:161:GLN:HE21	1.61	0.66
2:C:338:GLU:HA	2:C:341:THR:HG22	1.77	0.66
3:D:1265:ALA:HB1	9:D:9823:HOH:O	1.96	0.66
2:M:129:ILE:HD13	9:M:9309:HOH:O	1.94	0.66
3:N:39:PRO:HB3	3:N:45:PHE:O	1.95	0.66
3:N:1196:THR:HA	9:N:9588:HOH:O	1.96	0.66
3:N:1501:GLU:HB3	9:N:9522:HOH:O	1.96	0.66
5:P:170:HIS:HA	5:P:173:TYR:HD1	1.61	0.66
2:C:66:LEU:HD13	2:C:100:LEU:HB3	1.78	0.66
2:C:176:VAL:HG12	2:C:182:VAL:HG22	1.77	0.66
2:M:394:PHE:HA	9:M:9211:HOH:O	1.96	0.66
3:N:481:MET:CE	3:N:493:ARG:HE	2.08	0.66
3:N:1432:LYS:HZ2	3:N:1460:ILE:HB	1.61	0.66
1:A:102:LYS:HG2	9:A:9611:HOH:O	1.95	0.65
2:C:814:GLU:HG3	9:C:9712:HOH:O	1.95	0.65
2:C:1008:ARG:CZ	2:C:1020:PRO:HB3	2.26	0.65
5:F:155:THR:HA	9:F:9647:HOH:O	1.96	0.65
2:M:73:LEU:HB3	9:M:9468:HOH:O	1.97	0.65
2:M:451:LEU:HA	9:M:9532:HOH:O	1.97	0.65
2:M:905:ILE:HG12	9:M:9307:HOH:O	1.96	0.65
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.43	0.65
3:N:1311:LEU:HD23	3:N:1311:LEU:H	1.59	0.65
1:B:39:PRO:O	1:B:43:ILE:HG12	1.95	0.65
2:C:336:VAL:HG12	9:C:2001:HOH:O	1.96	0.65
2:C:534:VAL:H	2:C:538:GLN:HE22	1.44	0.65
2:C:611:ILE:HG12	9:C:9584:HOH:O	1.95	0.65
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.22	0.65
3:D:475:LYS:HD3	3:D:478:LEU:HD12	1.79	0.65
3:D:646:LYS:HA	3:D:720:LEU:HD23	1.77	0.65
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.62	0.65
2:M:230:ARG:NE	2:M:237:ARG:HH22	1.94	0.65
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.77	0.65
2:M:829:GLN:NE2	2:M:831:ARG:HD3	2.06	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:150:THR:HG23	5:P:155:THR:HG21	1.79	0.65
1:A:50:GLY:HA3	1:A:173:PRO:HG3	1.78	0.65
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.76	0.65
3:D:1459:LEU:HD12	3:D:1470:ARG:HH11	1.61	0.65
4:E:88:GLU:HA	9:E:9574:HOH:O	1.95	0.65
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.78	0.65
1:A:44:LEU:HD23	1:A:48:ILE:HD11	1.79	0.65
1:B:44:LEU:HD23	1:B:48:ILE:HD11	1.77	0.65
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.62	0.65
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.79	0.65
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.78	0.65
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.62	0.65
2:M:21:ILE:H	2:M:21:ILE:HD12	1.61	0.65
2:M:282:GLY:HA2	2:M:308:ARG:HH21	1.61	0.65
2:M:338:GLU:HB3	9:M:9771:HOH:O	1.96	0.65
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.79	0.65
3:N:212:ARG:HA	9:N:9240:HOH:O	1.96	0.65
1:A:59:GLU:HG3	1:A:60:ASP:H	1.61	0.65
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.59	0.65
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.10	0.65
1:K:57:TYR:HE1	1:K:163:ASN:HB2	1.62	0.65
3:N:9:ARG:HD3	3:N:1456:LYS:HG2	1.79	0.65
3:N:175:VAL:HG13	3:N:217:LYS:CB	2.27	0.65
3:N:781:PRO:HG2	3:N:911:LEU:HD23	1.79	0.65
1:A:56:VAL:HG13	1:A:142:VAL:HG12	1.78	0.65
1:A:123:MET:HE3	1:A:203:GLY:O	1.97	0.65
3:D:998:GLU:HA	9:D:2729:HOH:O	1.97	0.65
2:M:734:LEU:HA	2:M:737:LEU:HD13	1.79	0.65
3:N:128:TYR:HE2	3:N:458:ALA:HA	1.62	0.65
3:N:907:GLU:HA	9:N:9335:HOH:O	1.96	0.65
1:K:221:HIS:HA	1:K:224:TYR:CE2	2.31	0.65
2:M:39:ARG:HA	2:M:39:ARG:HE	1.62	0.65
2:M:1040:LEU:HG	9:M:9264:HOH:O	1.97	0.65
3:N:11:ALA:HB1	3:N:507:ASN:OD1	1.97	0.65
4:O:31:LEU:HD21	4:O:60:ALA:HB2	1.78	0.65
5:P:412:GLU:OE1	5:P:418:LEU:HD13	1.97	0.65
2:C:230:ARG:HG3	9:C:9673:HOH:O	1.96	0.65
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.11	0.65
3:D:1388:ARG:HD2	3:D:1388:ARG:N	2.08	0.65
2:M:875:GLY:HA3	9:M:9227:HOH:O	1.97	0.65
3:N:1239:ARG:HA	9:N:9644:HOH:O	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.77	0.65
1:L:75:VAL:HB	9:L:2024:HOH:O	1.97	0.65
2:M:627:ARG:HG3	2:M:628:PHE:H	1.61	0.65
3:N:470:LEU:HD22	3:N:499:VAL:HG13	1.78	0.65
3:N:1181:GLY:HA3	9:N:9860:HOH:O	1.95	0.65
3:N:1459:LEU:HD12	3:N:1470:ARG:NH1	2.12	0.65
5:P:261:PRO:HG3	9:P:4201:HOH:O	1.97	0.65
1:A:86:VAL:HG12	1:A:124:ASN:ND2	2.11	0.65
2:C:103:LYS:HE2	2:C:103:LYS:HA	1.79	0.65
3:D:1042:ARG:O	3:D:1057:VAL:HB	1.96	0.65
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.78	0.65
2:M:266:ARG:HG2	9:M:9612:HOH:O	1.95	0.65
2:M:380:ALA:HB1	9:M:2219:HOH:O	1.97	0.65
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.37	0.65
3:N:52:PRO:HG3	3:N:80:VAL:HG23	1.78	0.65
4:O:9:LEU:HA	4:O:12:MET:HE3	1.79	0.65
1:A:206:THR:HG22	1:A:209:GLU:H	1.62	0.64
3:D:162:ARG:HH22	3:D:434:ARG:HH21	1.43	0.64
2:M:17:PRO:HB2	2:M:20:GLU:HB2	1.77	0.64
2:M:143:SER:HB2	2:M:276:LYS:HE2	1.79	0.64
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.78	0.64
3:N:126:VAL:HG13	3:N:132:TYR:HB2	1.79	0.64
3:N:484:PRO:O	3:N:489:ARG:HD2	1.97	0.64
3:N:800:LYS:HG3	3:N:830:ALA:HB3	1.79	0.64
3:N:1310:ARG:NE	3:N:1327:ARG:HB3	2.13	0.64
2:C:580:MET:O	2:C:902:ILE:HA	1.98	0.64
2:C:759:THR:HG22	9:C:9784:HOH:O	1.98	0.64
3:D:440:VAL:HA	9:D:2195:HOH:O	1.97	0.64
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.78	0.64
1:K:64:GLU:HG3	1:K:165:ILE:HD12	1.79	0.64
3:N:984:THR:HG22	3:N:987:GLU:CG	2.27	0.64
3:N:1432:LYS:NZ	3:N:1460:ILE:HB	2.12	0.64
5:P:130:VAL:HG13	5:P:156:VAL:HG23	1.78	0.64
1:A:193:ASP:HA	9:C:9642:HOH:O	1.95	0.64
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.79	0.64
2:C:946:ARG:HD2	2:C:984:GLU:HB2	1.77	0.64
3:D:1189:ARG:HG2	9:D:9851:HOH:O	1.96	0.64
1:K:72:LYS:NZ	2:M:644:VAL:HA	2.10	0.64
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.79	0.64
2:M:232:GLU:HA	9:M:9931:HOH:O	1.98	0.64
2:M:462:ASP:HB2	9:M:9913:HOH:O	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:983:LEU:HB2	9:N:9836:HOH:O	1.96	0.64
3:N:1034:GLN:HA	3:N:1037:GLN:HE21	1.63	0.64
3:N:1422:MET:HE3	3:N:1426:LYS:HG2	1.78	0.64
3:D:660:LYS:HA	3:D:663:GLU:HG3	1.79	0.64
2:M:1020:PRO:O	3:N:622:ARG:HD2	1.97	0.64
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.62	0.64
3:N:601:ARG:HB2	5:P:318:GLU:OE1	1.97	0.64
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.97	0.64
5:P:185:GLN:HA	5:P:188:ILE:HD12	1.80	0.64
1:A:88:ARG:HG3	1:A:204:SER:O	1.98	0.64
2:C:1054:THR:HG21	2:C:1079:PRO:CB	2.20	0.64
5:F:286:PRO:HA	9:F:9596:HOH:O	1.97	0.64
1:K:41:ARG:HH11	1:K:177:VAL:HB	1.62	0.64
1:K:48:ILE:HG22	1:K:173:PRO:HD2	1.79	0.64
1:L:220:GLU:HG3	9:L:3319:HOH:O	1.96	0.64
2:M:760:SER:HA	9:M:9228:HOH:O	1.97	0.64
3:N:71:LYS:HD2	3:N:71:LYS:N	2.12	0.64
3:N:466:LYS:HD2	3:N:510:GLU:HG2	1.78	0.64
3:N:984:THR:HG23	3:N:986:ARG:H	1.63	0.64
1:A:153:ALA:HA	1:A:156:HIS:NE2	2.12	0.64
2:C:739:GLU:HG2	9:C:9982:HOH:O	1.96	0.64
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.63	0.64
3:D:806:PHE:O	3:D:808:THR:N	2.31	0.64
2:M:575:GLN:HB3	2:M:670:GLN:HA	1.80	0.64
2:M:943:VAL:HG13	2:M:985:GLY:H	1.62	0.64
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.78	0.64
3:N:794:GLN:HE21	3:N:795:VAL:N	1.95	0.64
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.12	0.64
2:C:606:VAL:HA	9:C:9584:HOH:O	1.95	0.64
2:C:831:ARG:NH2	2:C:999:HIS:HB2	2.12	0.64
3:D:513:ILE:HA	9:D:9584:HOH:O	1.96	0.64
3:D:631:ILE:HG21	3:D:745:MET:HG3	1.80	0.64
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.80	0.64
1:B:162:ILE:HG23	1:B:163:ASN:ND2	2.11	0.64
2:C:403:SER:O	2:C:407:LYS:HD3	1.98	0.64
2:C:1114:GLY:HA2	9:C:2283:HOH:O	1.96	0.64
3:D:24:GLY:HA3	3:D:49:ILE:HG12	1.79	0.64
3:D:860:LEU:O	3:D:877:PRO:HD2	1.97	0.64
3:D:873:LEU:HD12	3:D:873:LEU:H	1.63	0.64
3:D:1058:ARG:HH11	3:D:1058:ARG:HG3	1.63	0.64
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1503:VAL:HG12	9:D:9672:HOH:O	1.97	0.64
5:F:401:GLU:O	5:F:405:LEU:HB2	1.97	0.64
1:K:59:GLU:HG3	1:K:60:ASP:H	1.63	0.64
1:L:39:PRO:O	1:L:43:ILE:HG12	1.97	0.64
2:M:159:ILE:HA	9:M:2059:HOH:O	1.96	0.64
3:N:64:LYS:NZ	5:P:377:ASP:HA	2.12	0.64
3:N:65:ARG:HB2	5:P:375:LEU:CA	2.28	0.64
3:N:161:LEU:O	3:N:449:SER:HB2	1.98	0.64
3:N:468:LEU:HB3	9:N:9474:HOH:O	1.98	0.64
5:P:271:LEU:HD22	5:P:291:ILE:HD11	1.80	0.64
2:C:17:PRO:HB2	2:C:20:GLU:HB2	1.80	0.64
2:C:110:GLU:H	2:C:368:THR:HG21	1.63	0.64
2:C:1052:MET:HE3	2:C:1056:LYS:HD3	1.78	0.64
3:D:135:LEU:HD21	3:D:452:ILE:HG13	1.80	0.64
3:D:141:ILE:HD13	3:D:450:TYR:H	1.63	0.64
3:D:171:LEU:HD13	3:D:389:GLU:C	2.23	0.64
1:L:100:LEU:HD12	1:L:115:LEU:HD21	1.80	0.64
2:M:721:ARG:NH2	2:M:783:ARG:HH21	1.96	0.64
3:N:925:GLU:HB3	9:O:6558:HOH:O	1.98	0.64
2:C:838:LYS:HD2	2:C:846:LYS:HZ1	1.63	0.64
9:C:9880:HOH:O	3:D:656:PHE:HA	1.97	0.64
3:D:6:ARG:HB3	3:D:6:ARG:HH11	1.61	0.64
3:D:694:VAL:HA	9:D:2200:HOH:O	1.97	0.64
5:F:132:ARG:NH2	5:F:184:ARG:HH12	1.96	0.64
1:L:44:LEU:HD23	1:L:48:ILE:HD11	1.79	0.64
3:N:39:PRO:HB3	3:N:45:PHE:C	2.23	0.64
3:N:794:GLN:NE2	3:N:795:VAL:N	2.47	0.64
3:N:834:THR:HG22	3:N:838:ARG:HE	1.62	0.64
3:N:850:LEU:H	3:N:850:LEU:HD12	1.62	0.64
1:B:112:ARG:HD2	9:B:9726:HOH:O	1.97	0.63
2:C:133:ASP:HB2	2:C:632:ASN:HD21	1.62	0.63
2:M:31:GLN:HB3	2:M:71:TYR:OH	1.98	0.63
2:M:325:ILE:O	2:M:331:ARG:HG3	1.97	0.63
3:N:462:GLN:HG3	3:N:513:ILE:HD13	1.79	0.63
2:C:139:GLN:HA	2:C:411:SER:O	1.97	0.63
2:C:399:ASN:ND2	2:C:568:ALA:HB3	2.13	0.63
3:D:12:LEU:HD11	3:D:512:MET:HG2	1.77	0.63
3:D:149:LYS:H	3:D:149:LYS:HD3	1.61	0.63
3:D:690:ALA:HA	9:D:9783:HOH:O	1.97	0.63
3:N:798:GLU:HG2	3:N:799:LYS:H	1.62	0.63
3:N:1116:ASN:CG	3:N:1193:THR:HB	2.23	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:184:ARG:O	5:P:188:ILE:HG13	1.99	0.63
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.78	0.63
2:C:47:ALA:HB3	9:C:9646:HOH:O	1.97	0.63
1:K:25:LEU:HD11	9:L:4548:HOH:O	1.97	0.63
1:K:42:ARG:HA	9:K:1228:HOH:O	1.98	0.63
1:K:72:LYS:HZ1	2:M:644:VAL:HA	1.64	0.63
2:M:84:ARG:NH1	2:M:128:ILE:HG12	2.13	0.63
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.28	0.63
2:M:721:ARG:HG2	9:M:9669:HOH:O	1.98	0.63
2:M:1020:PRO:HD2	3:N:622:ARG:HB2	1.79	0.63
2:M:1059:ASP:HA	9:M:9233:HOH:O	1.98	0.63
3:N:704:ARG:HG2	9:N:9545:HOH:O	1.98	0.63
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.80	0.63
1:A:39:PRO:O	1:A:43:ILE:HG12	1.98	0.63
1:A:73:GLU:HG2	9:A:9656:HOH:O	1.97	0.63
1:A:74:ASP:HA	9:A:9794:HOH:O	1.99	0.63
2:C:823:VAL:HG13	9:C:9907:HOH:O	1.98	0.63
1:K:180:GLN:HB3	9:K:1076:HOH:O	1.97	0.63
2:M:404:LEU:HD23	2:M:587:VAL:HG13	1.80	0.63
5:P:94:LEU:HD13	5:P:96:LEU:H	1.62	0.63
5:P:266:GLU:HB2	5:P:270:LYS:NZ	2.12	0.63
1:A:42:ARG:HG2	1:A:42:ARG:HH11	1.64	0.63
1:A:170:VAL:HG21	9:A:9702:HOH:O	1.98	0.63
3:D:777:PRO:HB2	3:D:912:LYS:HD2	1.80	0.63
3:D:1004:THR:OG1	3:D:1036:ARG:HD3	1.98	0.63
3:D:1269:LYS:HD2	9:D:2737:HOH:O	1.98	0.63
1:L:152:PRO:HD2	1:L:155:LYS:HD3	1.80	0.63
1:L:185:ARG:NH1	3:N:692:GLU:HG3	2.13	0.63
2:M:331:ARG:NH1	2:M:427:VAL:HG13	2.12	0.63
2:M:493:ARG:HG3	9:M:9314:HOH:O	1.97	0.63
2:M:1007:ALA:HB2	9:M:9335:HOH:O	1.98	0.63
2:M:1016:ILE:HD12	3:N:526:PRO:HG2	1.80	0.63
3:N:9:ARG:HH12	3:N:11:ALA:HB2	1.63	0.63
3:N:172:PRO:HD2	3:N:389:GLU:O	1.98	0.63
5:P:291:ILE:HD13	5:P:304:VAL:HG13	1.79	0.63
1:B:203:GLY:HA2	9:B:9589:HOH:O	1.99	0.63
2:C:731:GLU:HG3	9:C:9837:HOH:O	1.97	0.63
2:C:987:ILE:HG23	9:C:9757:HOH:O	1.98	0.63
2:C:1024:LYS:HB2	9:C:9932:HOH:O	1.97	0.63
3:D:708:LEU:HD13	3:D:1231:GLU:HA	1.79	0.63
1:L:107:LYS:HD2	9:L:8983:HOH:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:164:PRO:HA	2:M:266:ARG:NH1	2.13	0.63
2:M:953:VAL:HG13	2:M:966:LEU:HD13	1.80	0.63
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.80	0.63
3:N:440:VAL:HG23	9:N:9421:HOH:O	1.98	0.63
3:N:1373:ARG:HG2	3:N:1374:GLN:HE21	1.63	0.63
1:A:18:ARG:O	1:A:207:PRO:HD3	1.99	0.63
1:A:104:GLU:HG3	9:A:9611:HOH:O	1.99	0.63
2:C:511:GLU:O	2:C:526:PRO:HD3	1.98	0.63
2:C:1016:ILE:HD13	2:C:1016:ILE:H	1.63	0.63
3:D:1394:VAL:HB	3:D:1397:LYS:HB2	1.80	0.63
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.81	0.63
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.24	0.63
1:K:178:ALA:HB3	1:K:198:ARG:HG3	1.80	0.63
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.79	0.63
2:M:528:GLU:HA	9:M:9431:HOH:O	1.99	0.63
3:N:107:ASP:HA	9:N:9514:HOH:O	1.99	0.63
3:N:441:ARG:HG2	9:N:9718:HOH:O	1.98	0.63
3:N:1175:ILE:O	3:N:1179:GLU:HG3	1.97	0.63
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.64	0.63
3:D:1215:VAL:HB	9:D:9841:HOH:O	1.99	0.63
2:M:129:ILE:HG22	2:M:130:ASN:N	2.14	0.63
2:M:164:PRO:HA	2:M:266:ARG:NH2	2.12	0.63
2:M:328:LEU:HA	9:M:9297:HOH:O	1.98	0.63
2:M:567:GLN:HB3	2:M:997:LEU:HD22	1.80	0.63
2:M:1057:SER:HB2	3:N:622:ARG:O	1.99	0.63
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.81	0.63
3:D:86:ARG:O	3:D:522:PRO:HD2	1.99	0.63
3:D:574:LEU:O	3:D:578:VAL:HG23	1.99	0.63
3:D:1150:ALA:O	3:D:1151:ARG:HD3	1.99	0.63
5:F:220:LEU:HD12	5:F:243:ILE:HD11	1.81	0.63
1:L:212:ASN:HB2	9:L:1267:HOH:O	1.98	0.63
2:M:129:ILE:HD11	9:M:9705:HOH:O	1.98	0.63
2:M:564:MET:HE3	9:M:9338:HOH:O	1.98	0.63
3:N:65:ARG:CB	5:P:375:LEU:HA	2.26	0.63
3:N:545:ARG:HD2	9:P:1680:HOH:O	1.98	0.63
3:N:598:ARG:HG2	3:N:598:ARG:HH11	1.63	0.63
3:N:806:PHE:O	3:N:808:THR:N	2.32	0.63
4:O:94:PRO:HG2	9:O:6584:HOH:O	1.97	0.63
5:P:402:ASN:HA	9:P:3207:HOH:O	1.99	0.63
2:C:1085:PHE:CD2	3:D:1468:LEU:HA	2.33	0.62
3:D:966:GLU:HA	3:D:969:ARG:NH1	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1052:THR:HG23	9:D:2494:HOH:O	1.99	0.62
3:D:1209:LEU:HG	3:D:1211:MET:SD	2.39	0.62
5:F:231:ARG:HB3	5:F:233:PHE:CE2	2.34	0.62
1:K:14:ARG:HB3	9:K:1738:HOH:O	1.99	0.62
2:M:1104:GLU:HB2	9:M:2124:HOH:O	1.99	0.62
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.33	0.62
2:C:1103:ASP:CG	2:C:1104:GLU:H	2.06	0.62
3:D:521:PRO:HB2	3:D:524:LEU:HD12	1.80	0.62
3:D:984:THR:HG22	3:D:987:GLU:CG	2.27	0.62
3:D:988:ARG:HD2	9:D:9919:HOH:O	1.99	0.62
3:D:1068:LEU:HG	3:D:1072:ILE:HG12	1.80	0.62
3:D:1440:PHE:HB2	3:D:1442:ASN:ND2	2.15	0.62
4:E:74:VAL:HG12	4:E:79:LEU:HD21	1.80	0.62
1:K:39:PRO:O	1:K:43:ILE:HG12	1.99	0.62
1:K:100:LEU:HD12	1:K:115:LEU:HD21	1.81	0.62
1:L:88:ARG:HB2	9:L:1335:HOH:O	1.97	0.62
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.28	0.62
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.80	0.62
3:N:1332:PRO:HD2	9:N:2721:HOH:O	1.98	0.62
3:N:1428:ALA:O	3:N:1431:THR:HG23	1.99	0.62
5:P:151:LEU:HB2	5:P:155:THR:OG1	1.99	0.62
5:P:361:LEU:HB3	9:P:1329:HOH:O	1.98	0.62
1:B:176:ARG:HB2	9:B:9702:HOH:O	1.99	0.62
3:D:658:LEU:HA	3:D:661:MET:HE3	1.80	0.62
3:D:810:GLU:O	3:D:813:LEU:HG	2.00	0.62
2:M:614:ARG:HG3	9:M:9292:HOH:O	2.00	0.62
2:M:1049:LEU:O	2:M:1053:LEU:HD23	1.99	0.62
3:N:103:TRP:HZ2	3:N:604:THR:HG23	1.63	0.62
3:N:871:LYS:HE2	3:N:873:LEU:HD21	1.79	0.62
3:N:890:VAL:HG13	3:N:926:LYS:HD3	1.81	0.62
1:A:78:ILE:HA	9:A:9585:HOH:O	1.99	0.62
2:C:752:GLY:H	2:C:792:VAL:HB	1.64	0.62
3:D:563:PRO:HG3	5:F:188:ILE:HG21	1.80	0.62
3:D:604:THR:HA	3:D:607:LEU:HD12	1.81	0.62
3:D:616:GLN:O	3:D:619:LEU:HB3	1.99	0.62
3:D:1390:LEU:HA	9:D:9843:HOH:O	1.99	0.62
3:N:607:LEU:HD23	9:N:2546:HOH:O	1.99	0.62
3:N:1279:GLY:O	3:N:1318:TYR:HA	2.00	0.62
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.81	0.62
3:D:551:ASN:HA	9:D:9809:HOH:O	1.99	0.62
3:D:972:LEU:HB2	9:D:2563:HOH:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:999:THR:HA	3:D:1002:LYS:HD2	1.82	0.62
3:D:1097:LYS:O	3:D:1101:VAL:HG23	1.99	0.62
2:M:586:ARG:NH1	2:M:586:ARG:HB3	2.13	0.62
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.29	0.62
3:N:146:PRO:HA	9:N:9595:HOH:O	1.99	0.62
3:N:684:LYS:HB3	3:N:686:GLU:OE2	2.00	0.62
1:A:57:TYR:HE1	1:A:163:ASN:HB2	1.63	0.62
1:B:52:ALA:HB3	9:B:9602:HOH:O	1.98	0.62
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.82	0.62
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	2.29	0.62
3:D:220:ARG:HA	9:D:9675:HOH:O	1.99	0.62
3:D:949:ILE:HD11	3:D:1023:MET:HE1	1.81	0.62
3:D:1262:LEU:HD23	3:D:1352:ILE:HG12	1.80	0.62
1:K:226:SER:O	1:K:228:PRO:HD3	1.98	0.62
1:L:108:GLU:HB2	9:L:1445:HOH:O	2.00	0.62
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.64	0.62
2:M:719:PRO:HB3	9:M:9756:HOH:O	1.98	0.62
3:N:1034:GLN:HA	3:N:1037:GLN:NE2	2.14	0.62
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.99	0.62
3:N:1421:LEU:HA	9:N:9377:HOH:O	1.98	0.62
8:N:9101:G4P:H5''	8:N:9101:G4P:H8	1.80	0.62
1:A:180:GLN:NE2	2:C:934:PHE:HB2	2.14	0.62
2:C:195:LEU:O	2:C:199:VAL:HG23	1.98	0.62
2:C:437:ARG:NH2	2:C:488:ALA:HA	2.14	0.62
3:D:631:ILE:HG12	3:D:743:ASP:O	1.99	0.62
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.00	0.62
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.82	0.62
3:N:539:ASP:HB2	5:P:318:GLU:CD	2.24	0.62
3:N:1012:GLU:HG2	3:N:1021:TYR:OH	1.99	0.62
3:N:1394:VAL:HG13	9:N:2001:HOH:O	1.99	0.62
9:N:9288:HOH:O	4:O:54:LEU:HD11	2.00	0.62
1:B:20:TYR:HB3	9:B:9603:HOH:O	1.99	0.62
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.82	0.62
1:B:206:THR:HG22	1:B:209:GLU:H	1.64	0.62
2:C:442:GLU:HG2	2:C:454:SER:CB	2.28	0.62
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.34	0.62
1:K:88:ARG:HD2	1:K:123:MET:HE2	1.81	0.62
2:M:492:ASP:HB2	9:M:9314:HOH:O	1.99	0.62
2:M:758:ARG:HG3	9:M:9349:HOH:O	2.00	0.62
3:N:1040:GLY:O	3:N:1060:SER:HB3	2.00	0.62
3:N:1271:LYS:HG3	9:N:9632:HOH:O	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:86:VAL:HG12	1:A:124:ASN:HD22	1.65	0.62
1:B:59:GLU:HG3	1:B:60:ASP:H	1.64	0.62
2:C:773:LEU:O	2:C:777:ILE:HG13	2.00	0.62
2:C:911:GLU:O	2:C:915:LYS:HG2	1.98	0.62
2:C:958:THR:HG22	9:C:2770:HOH:O	1.99	0.62
3:D:464:LEU:HA	9:D:9601:HOH:O	2.00	0.62
3:D:1378:TYR:OH	3:D:1431:THR:HG22	1.99	0.62
1:L:224:TYR:HB2	9:L:4548:HOH:O	1.98	0.62
2:M:225:SER:HB2	9:M:2105:HOH:O	2.00	0.62
2:M:497:ALA:HA	2:M:515:ALA:HA	1.82	0.62
2:M:536:PRO:HB3	2:M:906:PHE:CD1	2.29	0.62
3:N:1046:GLN:OE1	3:N:1079:LYS:HD3	1.99	0.62
5:P:166:LEU:HD13	5:P:170:HIS:HB2	1.82	0.62
5:P:195:VAL:HG11	5:P:217:ASN:OD1	2.00	0.62
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.82	0.62
2:C:186:VAL:HG23	2:C:187:ASN:H	1.64	0.62
2:C:497:ALA:HA	2:C:515:ALA:HA	1.81	0.62
2:C:793:PRO:HB3	9:C:9926:HOH:O	1.99	0.62
3:D:502:PHE:CE2	3:D:1452:ILE:HG23	2.34	0.62
3:D:701:LEU:O	3:D:747:VAL:HG23	2.00	0.62
3:D:1046:GLN:HB3	3:D:1052:THR:HG22	1.81	0.62
3:D:1243:THR:HB	3:D:1253:THR:HB	1.80	0.62
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.00	0.62
1:A:123:MET:C	1:A:125:PRO:HD3	2.25	0.61
1:B:64:GLU:HG3	1:B:165:ILE:HG21	1.80	0.61
2:C:189:ARG:HB3	9:C:9840:HOH:O	1.99	0.61
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.82	0.61
3:D:148:GLU:HG3	9:D:3099:HOH:O	1.99	0.61
3:D:152:LEU:HD23	3:D:152:LEU:H	1.64	0.61
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.80	0.61
3:D:484:PRO:O	3:D:489:ARG:HD2	2.00	0.61
2:M:610:ARG:HB2	9:M:9214:HOH:O	2.00	0.61
2:M:911:GLU:HB3	2:M:912:PRO:HD3	1.82	0.61
3:N:130:SER:HA	3:N:572:ARG:NH1	2.14	0.61
3:N:884:ARG:HD3	3:N:888:GLU:OE2	1.99	0.61
4:O:54:LEU:O	4:O:54:LEU:HD23	2.00	0.61
1:A:197:LEU:HD23	1:A:197:LEU:H	1.66	0.61
1:B:30:ARG:HD3	9:B:9697:HOH:O	2.00	0.61
1:B:117:VAL:HG21	9:B:9656:HOH:O	1.98	0.61
2:C:207:LEU:O	2:C:211:LEU:HB3	2.00	0.61
2:C:376:ARG:HB2	2:C:377:PRO:HD3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	2.00	0.61
5:F:85:LEU:HD12	9:F:9829:HOH:O	2.00	0.61
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.81	0.61
2:M:220:GLY:HA3	9:M:9787:HOH:O	1.99	0.61
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.11	0.61
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.81	0.61
2:C:28:ARG:HG3	9:C:2013:HOH:O	2.01	0.61
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.82	0.61
2:C:327:HIS:HB3	2:C:330:ASN:HD22	1.65	0.61
2:C:909:ALA:HB1	2:C:914:ILE:HD11	1.83	0.61
3:D:39:PRO:HB3	3:D:45:PHE:O	2.00	0.61
3:D:211:VAL:HG13	3:D:393:ILE:HA	1.83	0.61
5:F:394:ARG:HD3	9:F:2104:HOH:O	1.99	0.61
1:L:73:GLU:HB3	9:L:1341:HOH:O	1.98	0.61
2:M:611:ILE:HD11	2:M:641:PRO:HG3	1.81	0.61
2:M:961:GLU:HG2	9:M:2341:HOH:O	2.00	0.61
3:N:1020:LEU:HA	3:N:1023:MET:HE2	1.83	0.61
1:A:42:ARG:HD3	1:B:35:THR:HG23	1.83	0.61
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.81	0.61
3:D:664:LYS:HG2	9:D:2544:HOH:O	2.00	0.61
3:D:1310:ARG:HD2	9:D:2631:HOH:O	2.00	0.61
3:D:1438:ALA:O	3:D:1443:THR:HG22	2.00	0.61
1:K:18:ARG:O	1:K:207:PRO:HD3	2.00	0.61
2:M:1054:THR:HG23	2:M:1059:ASP:HB2	1.81	0.61
3:N:87:ARG:HD3	3:N:523:ASP:OD2	2.00	0.61
3:N:434:ARG:HG3	9:N:9455:HOH:O	2.00	0.61
4:O:40:LEU:HB3	9:O:2072:HOH:O	2.00	0.61
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.35	0.61
1:A:36:LEU:O	1:A:39:PRO:HD2	2.01	0.61
3:D:191:LEU:HD13	3:D:195:VAL:HG11	1.83	0.61
3:D:701:LEU:C	3:D:702:LEU:HD12	2.25	0.61
3:D:1197:ARG:HH12	3:D:1377:LYS:HB2	1.66	0.61
5:F:271:LEU:HD23	5:F:295:MET:HG3	1.82	0.61
1:L:20:TYR:OH	1:L:198:ARG:HD2	1.99	0.61
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.00	0.61
2:M:141:HIS:O	2:M:331:ARG:HA	2.00	0.61
2:M:412:ALA:HB1	2:M:419:THR:HG21	1.81	0.61
2:M:1013:TYR:CE2	5:P:341:PRO:HD2	2.34	0.61
2:M:1098:ASP:HB2	3:N:21:TRP:CZ2	2.35	0.61
3:N:568:ARG:HA	3:N:571:LYS:HE3	1.82	0.61
3:N:1403:LEU:HA	9:N:9392:HOH:O	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:308:LEU:O	5:P:312:GLN:HG3	2.01	0.61
1:B:128:HIS:HB3	9:B:9670:HOH:O	2.00	0.61
2:C:794:PRO:HB3	9:C:2362:HOH:O	1.99	0.61
3:D:3:LYS:HD3	3:D:3:LYS:H	1.65	0.61
3:D:190:GLU:CD	3:D:190:GLU:H	2.09	0.61
3:D:895:VAL:O	3:D:899:LEU:HD12	2.01	0.61
1:L:66:SER:HA	9:L:6317:HOH:O	1.99	0.61
2:M:496:ILE:HG12	2:M:531:PHE:HB2	1.82	0.61
3:N:2:LYS:HB2	9:N:9489:HOH:O	2.00	0.61
3:N:81:THR:HB	3:N:85:VAL:CG2	2.31	0.61
3:N:693:GLU:HG3	4:O:48:MET:HE1	1.83	0.61
3:N:991:GLN:HA	9:N:9221:HOH:O	2.00	0.61
5:P:148:LYS:HA	9:P:1661:HOH:O	2.00	0.61
5:P:353:GLU:HG2	5:P:417:LYS:HB3	1.81	0.61
1:A:96:THR:HG21	9:A:9575:HOH:O	2.00	0.61
2:C:413:LEU:H	2:C:413:LEU:HD12	1.66	0.61
2:C:1069:ALA:O	2:C:1074:GLU:HG2	2.01	0.61
3:D:580:ALA:HA	3:D:584:ASN:OD1	2.00	0.61
5:F:308:LEU:O	5:F:312:GLN:HG2	2.01	0.61
2:M:195:LEU:HB3	2:M:238:LEU:HD21	1.81	0.61
2:M:723:THR:C	2:M:725:ASP:H	2.09	0.61
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.81	0.61
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.82	0.61
3:N:1389:LEU:H	3:N:1389:LEU:CD2	2.12	0.61
5:P:94:LEU:HD12	5:P:97:GLU:N	2.15	0.61
1:A:30:ARG:HH22	1:B:155:LYS:NZ	1.98	0.61
1:A:223:THR:HB	9:A:9644:HOH:O	2.00	0.61
1:A:227:ASN:H	1:A:227:ASN:HD22	1.48	0.61
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.83	0.61
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.82	0.61
5:F:192:LEU:O	5:F:196:VAL:HG23	2.01	0.61
1:K:17:GLY:HA3	9:K:3120:HOH:O	2.00	0.61
2:M:87:ASP:HB3	9:M:9773:HOH:O	2.00	0.61
2:M:189:ARG:HH21	2:M:243:ARG:NH2	1.98	0.61
2:M:910:LYS:HB3	9:M:9220:HOH:O	2.01	0.61
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.30	0.61
3:N:1342:GLU:HB2	9:N:2770:HOH:O	1.99	0.61
2:C:21:ILE:H	2:C:21:ILE:HD12	1.66	0.61
2:C:762:LYS:HE2	2:C:771:GLU:OE1	2.01	0.61
2:C:1049:LEU:O	2:C:1053:LEU:HD23	2.00	0.61
3:D:1115:THR:HB	9:D:2390:HOH:O	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:122:LEU:HG	5:P:126:LEU:HD23	1.83	0.61
1:B:7:LYS:NZ	1:B:7:LYS:HB3	2.16	0.61
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.82	0.61
3:D:14:SER:HB2	3:D:17:LYS:HG3	1.83	0.61
3:D:172:PRO:HD2	3:D:389:GLU:O	2.00	0.61
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.31	0.61
5:F:370:LYS:HE3	5:F:371:LEU:HG	1.83	0.61
2:M:647:GLN:HA	9:M:9256:HOH:O	2.00	0.61
3:N:836:VAL:HG13	9:N:9636:HOH:O	2.01	0.61
5:P:297:PRO:HA	9:P:7238:HOH:O	2.01	0.61
5:P:372:ARG:HB3	9:P:2070:HOH:O	2.00	0.61
5:P:393:THR:HG22	5:P:394:ARG:N	2.16	0.61
1:A:70:GLY:HA2	1:A:133:GLU:HG2	1.83	0.60
2:C:507:ARG:HB2	2:C:507:ARG:HH11	1.65	0.60
2:C:724:ARG:HG3	9:C:9568:HOH:O	2.01	0.60
2:C:1034:GLU:HG2	9:C:9872:HOH:O	2.01	0.60
3:D:86:ARG:NH1	3:D:522:PRO:HB2	2.16	0.60
2:M:96:ALA:HB2	9:M:9250:HOH:O	2.00	0.60
2:M:439:CYS:HB2	2:M:541:SER:HB3	1.82	0.60
2:M:721:ARG:HH21	2:M:783:ARG:HH21	1.48	0.60
3:N:743:ASP:HA	9:N:9297:HOH:O	2.00	0.60
3:D:1044:LEU:HA	9:D:2083:HOH:O	2.00	0.60
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.01	0.60
5:F:191:ASN:HA	9:F:9560:HOH:O	2.00	0.60
2:M:730:SER:O	2:M:734:LEU:HD23	2.01	0.60
2:M:881:ASN:HD22	2:M:881:ASN:H	1.47	0.60
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.66	0.60
2:C:18:LEU:H	2:C:18:LEU:HD12	1.67	0.60
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.36	0.60
2:C:893:ALA:HB1	9:C:9860:HOH:O	1.99	0.60
2:C:1115:LEU:HD22	3:D:88:TYR:HD1	1.65	0.60
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.36	0.60
5:F:398:ARG:HG2	5:F:402:ASN:HD22	1.66	0.60
2:M:71:TYR:HB2	9:M:9393:HOH:O	2.01	0.60
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.83	0.60
2:M:1004:LYS:HE3	2:M:1027:PHE:HE1	1.66	0.60
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.82	0.60
3:N:860:LEU:HB2	3:N:861:GLN:NE2	2.16	0.60
1:A:227:ASN:HD22	1:A:227:ASN:N	2.00	0.60
2:C:432:ARG:HH11	2:C:432:ARG:HG3	1.66	0.60
2:C:838:LYS:HB3	2:C:848:VAL:HG22	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:949:LYS:HD2	3:D:796:ARG:HH21	1.67	0.60
2:C:1087:VAL:HG12	2:C:1091:GLU:OE1	2.01	0.60
3:D:17:LYS:HG2	9:D:2736:HOH:O	2.02	0.60
3:D:36:THR:C	3:D:38:LYS:H	2.09	0.60
3:D:864:VAL:HG12	3:D:865:THR:H	1.66	0.60
2:M:707:ARG:HG2	9:M:9461:HOH:O	2.02	0.60
3:N:36:THR:C	3:N:38:LYS:H	2.09	0.60
3:N:98:PRO:HG2	3:N:462:GLN:NE2	2.15	0.60
3:N:838:ARG:HB3	9:N:9286:HOH:O	2.00	0.60
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.30	0.60
5:P:142:ARG:HB3	5:P:142:ARG:NH1	2.16	0.60
5:P:225:GLU:HB3	5:P:226:LYS:HZ2	1.65	0.60
1:A:227:ASN:H	1:A:227:ASN:ND2	2.00	0.60
1:B:67:THR:HA	9:B:9649:HOH:O	2.02	0.60
2:C:15:LEU:HD22	9:C:9604:HOH:O	2.01	0.60
3:D:119:SER:HB2	3:D:123:LEU:N	2.13	0.60
3:D:754:PHE:HE2	3:D:1476:THR:HG21	1.66	0.60
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	2.01	0.60
3:D:1406:ARG:HA	9:D:9597:HOH:O	2.01	0.60
4:E:40:LEU:HD21	4:E:67:GLU:HA	1.82	0.60
1:K:44:LEU:HD23	1:K:48:ILE:HD11	1.83	0.60
1:L:123:MET:C	1:L:125:PRO:HD3	2.26	0.60
1:L:123:MET:HG3	9:L:2931:HOH:O	2.02	0.60
1:L:162:ILE:HG12	9:L:4752:HOH:O	2.00	0.60
1:L:226:SER:O	1:L:228:PRO:HD3	2.02	0.60
3:N:177:ALA:HA	3:N:199:LEU:HD13	1.83	0.60
3:N:490:ALA:HA	9:N:9668:HOH:O	1.99	0.60
5:P:198:ILE:HA	9:P:8888:HOH:O	2.01	0.60
1:A:134:GLU:HB3	9:A:9569:HOH:O	2.01	0.60
1:B:73:GLU:HA	9:B:9614:HOH:O	2.01	0.60
2:C:833:LEU:HD11	2:C:849:VAL:HG21	1.84	0.60
3:D:493:ARG:CD	3:D:1390:LEU:HD21	2.31	0.60
3:D:500:ARG:HH22	3:D:1388:ARG:HE	1.50	0.60
3:D:536:ALA:HA	5:F:315:VAL:O	2.01	0.60
3:D:719:VAL:O	3:D:721:VAL:HG13	2.01	0.60
1:K:211:LEU:O	1:K:215:VAL:HG13	2.01	0.60
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.83	0.60
2:M:203:ASP:O	2:M:207:LEU:HB2	2.01	0.60
2:M:234:ALA:HB1	9:M:9363:HOH:O	2.01	0.60
2:M:1096:ALA:O	3:N:13:ALA:HB2	2.01	0.60
3:N:123:LEU:HD11	3:N:152:LEU:HD22	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:858:VAL:HA	9:N:9450:HOH:O	1.99	0.60
3:N:1258:ARG:HG2	3:N:1262:LEU:HD13	1.82	0.60
1:A:23:PHE:HE1	1:A:208:LEU:HD22	1.67	0.60
2:C:204:GLN:HB3	2:C:222:MET:HG2	1.83	0.60
2:C:208:ALA:HB3	9:C:9874:HOH:O	2.01	0.60
3:D:598:ARG:HB2	9:D:3283:HOH:O	2.00	0.60
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.16	0.60
3:D:1095:THR:O	3:D:1099:VAL:HG23	2.01	0.60
5:F:234:LYS:HB2	9:F:9575:HOH:O	2.01	0.60
1:K:110:LYS:HD3	9:K:1727:HOH:O	2.01	0.60
2:M:221:LEU:HG	9:M:9323:HOH:O	2.02	0.60
3:N:9:ARG:NH1	3:N:11:ALA:HB2	2.15	0.60
3:N:486:ARG:HH21	3:N:489:ARG:NE	2.00	0.60
3:N:728:LEU:HD22	3:N:745:MET:SD	2.42	0.60
3:N:817:GLU:O	3:N:821:VAL:HG23	2.01	0.60
3:N:902:LEU:HD11	9:N:2304:HOH:O	2.00	0.60
3:N:1290:LEU:HD22	9:N:9440:HOH:O	2.00	0.60
3:N:1301:LYS:HD2	9:N:9307:HOH:O	2.00	0.60
2:C:218:VAL:HG11	9:C:9905:HOH:O	2.01	0.60
2:C:722:ILE:HG21	2:C:821:GLU:OE1	2.02	0.60
2:C:881:ASN:H	2:C:881:ASN:HD22	1.47	0.60
2:C:1002:GLU:HG3	3:D:744:GLN:HE22	1.66	0.60
2:C:1106:ASP:HA	9:C:9776:HOH:O	2.00	0.60
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.82	0.60
3:D:625:TYR:O	3:D:749:VAL:HG23	2.01	0.60
3:D:1314:LYS:HA	9:D:2549:HOH:O	2.00	0.60
5:F:138:SER:O	5:F:141:VAL:HG12	2.01	0.60
5:F:369:LEU:HD23	9:F:2056:HOH:O	2.01	0.60
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.83	0.60
3:N:1277:ILE:HG22	3:N:1278:ASP:N	2.17	0.60
5:P:93:LEU:HG	5:P:190:ALA:CB	2.32	0.60
5:P:363:GLU:O	5:P:367:MET:HG2	2.02	0.60
1:B:94:LEU:HD11	1:B:119:ASP:HB2	1.82	0.60
2:C:536:PRO:HD2	2:C:537:LYS:HZ3	1.67	0.60
3:D:462:GLN:HG2	3:D:466:LYS:HE3	1.82	0.60
3:D:998:GLU:O	3:D:1002:LYS:HG3	2.01	0.60
2:M:295:ASP:HB2	9:M:2030:HOH:O	2.01	0.60
2:M:370:ALA:HB1	5:P:280:GLN:HB2	1.83	0.60
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.41	0.60
3:D:240:GLU:HA	9:D:3064:HOH:O	2.00	0.60
3:D:616:GLN:HB2	5:F:326:ASP:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1415:VAL:HG21	9:D:9816:HOH:O	2.01	0.60
5:F:92:PRO:HB2	9:F:9606:HOH:O	2.02	0.60
5:F:102:LEU:HB2	5:F:187:LEU:HD12	1.84	0.60
1:L:73:GLU:HG3	1:L:130:ALA:HA	1.84	0.60
2:M:480:THR:HG22	2:M:482:GLU:H	1.66	0.60
2:M:660:ALA:HB1	2:M:667:ALA:O	2.02	0.60
2:M:946:ARG:HD2	2:M:984:GLU:HB2	1.83	0.60
3:N:654:LYS:HD3	3:N:674:ARG:NH1	2.16	0.60
3:N:698:LYS:HG3	4:O:59:ASN:HD21	1.67	0.60
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.83	0.60
5:P:367:MET:HB3	5:P:370:LYS:NZ	2.17	0.60
1:A:100:LEU:HD12	1:A:115:LEU:HD21	1.83	0.59
1:B:191:ASP:HB2	9:B:9697:HOH:O	2.02	0.59
2:C:1013:TYR:HB3	2:C:1018:GLN:HE21	1.66	0.59
3:D:39:PRO:HB3	3:D:45:PHE:C	2.26	0.59
3:D:131:LYS:HA	3:D:456:MET:HG3	1.84	0.59
3:D:565:ILE:HG21	5:F:84:TYR:HB3	1.84	0.59
3:D:1100:ASP:HB3	3:D:1440:PHE:HZ	1.66	0.59
4:E:47:LYS:HD3	9:E:9670:HOH:O	2.02	0.59
3:N:98:PRO:O	3:N:458:ALA:HB3	2.02	0.59
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.84	0.59
4:O:40:LEU:HB2	4:O:45:ARG:NE	2.17	0.59
5:P:361:LEU:HD11	5:P:408:LEU:HD13	1.84	0.59
1:A:219:ARG:NH1	1:B:219:ARG:HG2	2.18	0.59
2:C:69:LEU:HB3	9:C:9789:HOH:O	2.01	0.59
2:C:405:ARG:HH22	2:C:409:ARG:NH2	1.99	0.59
2:C:453:THR:HA	9:C:9566:HOH:O	2.02	0.59
3:D:119:SER:H	3:D:123:LEU:CD1	2.15	0.59
3:D:195:VAL:HB	3:D:205:TYR:HB2	1.84	0.59
3:D:592:THR:HG21	9:D:9883:HOH:O	2.00	0.59
3:D:1380:GLU:HG2	9:D:9843:HOH:O	2.02	0.59
2:M:172:ILE:HG12	2:M:186:VAL:HG12	1.84	0.59
2:M:266:ARG:CD	2:M:288:ARG:HH12	2.14	0.59
2:M:874:LEU:HD13	3:N:783:ARG:HB3	1.84	0.59
3:N:116:LEU:HD11	3:N:465:LEU:HG	1.84	0.59
3:N:1149:LEU:HD11	3:N:1160:LEU:HB3	1.84	0.59
2:C:585:GLU:HB3	2:C:589:ARG:HH22	1.66	0.59
3:D:488:ARG:HB3	3:D:488:ARG:NH1	2.18	0.59
5:F:415:THR:O	5:F:417:LYS:HG3	2.01	0.59
3:N:574:LEU:O	3:N:578:VAL:HG23	2.02	0.59
5:P:323:ASP:O	5:P:325:LYS:HG2	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:19:THR:HG21	2:M:124:ASP:O	2.02	0.59
2:M:579:VAL:CG1	2:M:887:GLU:HG3	2.32	0.59
2:M:606:VAL:CG2	2:M:645:VAL:HG22	2.32	0.59
3:N:9:ARG:HD3	3:N:1456:LYS:CG	2.32	0.59
3:N:9:ARG:HG3	3:N:1455:LYS:O	2.03	0.59
3:N:473:LEU:HD13	9:N:9510:HOH:O	2.02	0.59
3:N:1124:GLN:CD	3:N:1135:ARG:HA	2.28	0.59
3:N:1189:ARG:NH1	3:N:1189:ARG:HB3	2.16	0.59
1:A:226:SER:O	1:A:228:PRO:HD3	2.01	0.59
2:C:31:GLN:HB3	9:C:2301:HOH:O	2.02	0.59
2:C:266:ARG:HB3	9:C:9842:HOH:O	2.01	0.59
2:C:728:HIS:HB3	2:C:729:LEU:HD22	1.84	0.59
2:C:787:ASP:HA	9:C:9784:HOH:O	2.01	0.59
2:C:814:GLU:HA	9:C:9961:HOH:O	2.01	0.59
2:C:921:ALA:HA	9:C:2761:HOH:O	2.02	0.59
3:D:487:ALA:HB3	3:D:488:ARG:HE	1.66	0.59
3:D:1097:LYS:HB3	9:D:9630:HOH:O	2.03	0.59
4:E:23:VAL:HG21	9:E:9593:HOH:O	2.03	0.59
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.84	0.59
2:M:507:ARG:HG3	9:M:9830:HOH:O	2.02	0.59
2:M:1054:THR:HG22	2:M:1055:LEU:N	2.17	0.59
2:M:1055:LEU:HD22	2:M:1066:ALA:HB2	1.84	0.59
3:N:84:ILE:HG22	9:N:9289:HOH:O	2.03	0.59
3:N:598:ARG:HG2	3:N:598:ARG:NH1	2.17	0.59
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.01	0.59
1:A:92:PRO:HA	9:A:9625:HOH:O	2.02	0.59
2:C:145:GLY:H	2:C:163:ILE:HG23	1.67	0.59
2:C:165:LEU:HD22	2:C:418:LEU:HD11	1.84	0.59
3:D:496:LEU:HG	3:D:500:ARG:HG2	1.85	0.59
3:D:781:PRO:HG2	3:D:911:LEU:HD23	1.83	0.59
1:K:2:LEU:HA	1:K:6:LEU:HD22	1.84	0.59
1:L:59:GLU:HG3	1:L:60:ASP:H	1.67	0.59
3:N:131:LYS:HB3	3:N:568:ARG:HG2	1.83	0.59
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.84	0.59
2:C:660:ALA:HB1	2:C:667:ALA:O	2.03	0.59
3:D:132:TYR:HA	9:D:9996:HOH:O	2.01	0.59
3:D:800:LYS:HE2	3:D:830:ALA:HB3	1.84	0.59
3:D:1489:GLN:HB2	9:D:9922:HOH:O	2.02	0.59
1:K:192:LEU:HG	9:K:2051:HOH:O	2.01	0.59
1:K:212:ASN:O	1:K:215:VAL:HG22	2.03	0.59
2:M:63:GLY:HA3	2:M:103:LYS:HG2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:369:PRO:HA	9:M:9861:HOH:O	2.03	0.59
2:M:569:VAL:HG12	2:M:996:LYS:O	2.03	0.59
2:M:1051:GLU:C	2:M:1056:LYS:HD2	2.28	0.59
3:N:662:GLU:OE2	3:N:669:ASN:HA	2.03	0.59
3:N:1014:ASN:HB3	9:N:9749:HOH:O	2.02	0.59
3:N:1114:THR:CG2	3:N:1195:GLN:HB2	2.32	0.59
5:P:181:GLU:O	5:P:184:ARG:HB3	2.01	0.59
5:P:316:SER:OG	5:P:318:GLU:HG3	2.02	0.59
1:B:102:LYS:HD3	9:B:9822:HOH:O	2.03	0.59
2:C:35:PRO:HD2	2:C:38:LYS:HE2	1.83	0.59
2:C:710:ILE:CD1	2:C:758:ARG:HE	2.12	0.59
2:C:761:PHE:HB3	9:C:9910:HOH:O	2.01	0.59
9:C:2004:HOH:O	4:E:31:LEU:HD23	2.03	0.59
5:F:282:LEU:HD12	5:F:284:ARG:HB2	1.84	0.59
2:M:230:ARG:HE	2:M:237:ARG:HH22	1.48	0.59
2:M:386:PHE:HA	9:M:9269:HOH:O	2.01	0.59
2:M:691:SER:HB2	2:M:858:MET:SD	2.43	0.59
2:M:769:PRO:HA	9:M:9896:HOH:O	2.02	0.59
2:M:927:GLY:HA2	2:M:930:LYS:HZ2	1.68	0.59
2:M:927:GLY:HA2	2:M:930:LYS:NZ	2.18	0.59
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.68	0.59
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.82	0.59
3:N:1114:THR:HB	3:N:1195:GLN:OE1	2.02	0.59
1:B:42:ARG:HG2	1:B:42:ARG:HH11	1.67	0.59
2:C:328:LEU:HB2	2:C:433:THR:CG2	2.32	0.59
2:C:386:PHE:HA	9:C:9782:HOH:O	2.02	0.59
3:D:770:LEU:HD11	3:D:919:PHE:CE2	2.38	0.59
1:L:20:TYR:HE2	1:L:198:ARG:HB3	1.67	0.59
2:M:12:VAL:HG13	2:M:13:ILE:HG12	1.85	0.59
2:M:1001:VAL:HG23	9:M:9493:HOH:O	2.02	0.59
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.03	0.59
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.85	0.59
3:N:1101:VAL:HG21	3:N:1424:VAL:HG22	1.84	0.59
5:P:113:ILE:HG23	5:P:127:ILE:HB	1.84	0.59
1:B:212:ASN:O	1:B:215:VAL:HG22	2.03	0.59
2:C:328:LEU:HD22	2:C:433:THR:O	2.03	0.59
3:D:1440:PHE:HB2	3:D:1442:ASN:HD21	1.66	0.59
3:D:1459:LEU:HB3	3:D:1465:ASN:HD22	1.67	0.59
2:M:144:PRO:O	2:M:276:LYS:HD3	2.03	0.59
2:M:837:ASP:HA	9:M:9267:HOH:O	2.03	0.59
2:M:1005:MET:HE1	3:N:645:PRO:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:19:ARG:HG3	9:N:9537:HOH:O	2.02	0.59
3:N:605:ASP:HA	3:N:610:LYS:HG3	1.85	0.59
3:N:703:ASN:ND2	3:N:713:ILE:HG12	2.18	0.59
3:N:1374:GLN:OE1	3:N:1377:LYS:HD3	2.02	0.59
3:D:565:ILE:H	3:D:565:ILE:HD12	1.68	0.58
5:F:132:ARG:HH21	5:F:184:ARG:HH12	1.51	0.58
3:N:499:VAL:O	3:N:503:LEU:HB2	2.03	0.58
3:N:887:ALA:HA	9:N:9628:HOH:O	2.03	0.58
3:N:1096:ARG:NH1	3:N:1096:ARG:HB2	2.17	0.58
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.85	0.58
2:C:44:ILE:HG13	2:C:344:PHE:CE2	2.38	0.58
2:C:964:LYS:HE3	9:C:2189:HOH:O	2.02	0.58
9:C:9643:HOH:O	3:D:532:GLY:HA2	2.03	0.58
3:D:430:ASP:HB2	9:D:2014:HOH:O	2.03	0.58
2:M:374:ASN:O	2:M:377:PRO:HD2	2.03	0.58
2:M:420:ARG:HD2	2:M:420:ARG:H	1.68	0.58
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.85	0.58
2:M:537:LYS:HA	2:M:545:ASN:ND2	2.17	0.58
3:N:119:SER:HB2	3:N:123:LEU:N	2.17	0.58
3:N:190:GLU:CD	3:N:190:GLU:H	2.11	0.58
3:N:957:PRO:HB3	3:N:1010:ASN:HD22	1.68	0.58
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.37	0.58
4:O:54:LEU:HD12	9:O:3002:HOH:O	2.02	0.58
5:P:93:LEU:HD22	5:P:98:GLU:HB3	1.85	0.58
1:A:178:ALA:HB2	2:C:864:GLY:H	1.66	0.58
2:C:225:SER:O	2:C:229:MET:HG2	2.04	0.58
2:C:1074:GLU:HA	9:C:2004:HOH:O	2.02	0.58
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.38	0.58
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.84	0.58
3:D:489:ARG:NE	3:D:493:ARG:HH22	1.95	0.58
3:D:1152:GLU:HG2	3:D:1159:ARG:HH21	1.67	0.58
2:M:258:TYR:HB3	9:M:2121:HOH:O	2.02	0.58
2:M:909:ALA:HB1	2:M:914:ILE:HD11	1.85	0.58
3:N:197:SER:CB	3:N:203:ALA:HB3	2.33	0.58
3:N:896:ALA:HB2	9:N:9628:HOH:O	2.03	0.58
5:P:169:GLU:H	5:P:169:GLU:CD	2.11	0.58
5:P:371:LEU:HB2	9:P:5682:HOH:O	2.02	0.58
2:C:412:ALA:HB1	2:C:419:THR:HG21	1.86	0.58
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.03	0.58
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.86	0.58
3:D:122:GLU:HB3	9:D:9684:HOH:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:702:LEU:HD13	3:D:716:PHE:CD1	2.38	0.58
3:D:1131:SER:HB2	9:D:2660:HOH:O	2.02	0.58
3:D:1209:LEU:HD12	3:D:1210:SER:N	2.10	0.58
3:D:1282:ARG:NH1	3:D:1282:ARG:HB3	2.17	0.58
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.85	0.58
3:D:1390:LEU:HD23	3:D:1390:LEU:H	1.68	0.58
1:K:26:GLU:HB3	1:K:194:LYS:HG3	1.85	0.58
1:K:89:PHE:HB3	1:K:94:LEU:HD13	1.85	0.58
1:K:229:GLN:HG2	9:K:3118:HOH:O	2.02	0.58
9:K:2958:HOH:O	2:M:830:LYS:HD2	2.03	0.58
2:M:3:ILE:HA	2:M:900:ARG:O	2.04	0.58
2:M:537:LYS:HA	2:M:545:ASN:HD21	1.68	0.58
2:M:954:THR:HG22	9:M:2147:HOH:O	2.03	0.58
3:N:432:TYR:HA	3:N:448:GLU:O	2.03	0.58
3:N:464:LEU:O	3:N:468:LEU:HG	2.03	0.58
3:N:794:GLN:HG2	3:N:905:PRO:HB3	1.85	0.58
3:N:820:GLU:HA	3:N:825:ALA:O	2.03	0.58
4:O:48:MET:HG2	4:O:49:GLN:H	1.67	0.58
5:P:209:PHE:HA	5:P:212:LEU:HD12	1.85	0.58
5:P:339:PRO:HB3	5:P:343:ASP:HB2	1.84	0.58
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.67	0.58
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.84	0.58
2:C:1021:LEU:HD22	5:F:331:ASP:O	2.02	0.58
3:D:378:ILE:HA	9:D:2848:HOH:O	2.02	0.58
3:D:799:LYS:HG2	3:D:826:PRO:CG	2.34	0.58
3:D:1389:LEU:HG	3:D:1390:LEU:H	1.69	0.58
3:D:1433:SER:HB2	3:D:1457:ASP:OD2	2.04	0.58
1:L:12:THR:OG1	1:L:24:VAL:HB	2.03	0.58
3:N:65:ARG:CG	3:N:66:GLN:H	2.16	0.58
3:N:441:ARG:HB3	3:N:443:VAL:CG2	2.33	0.58
3:N:481:MET:O	3:N:489:ARG:HB2	2.03	0.58
5:P:371:LEU:HB3	9:P:1119:HOH:O	2.02	0.58
1:A:89:PHE:HB3	1:A:94:LEU:HD13	1.85	0.58
2:C:402:SER:HA	2:C:566:THR:HG23	1.86	0.58
2:C:627:ARG:HD2	9:C:9630:HOH:O	2.02	0.58
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.86	0.58
2:C:756:VAL:HG21	2:C:823:VAL:HG11	1.85	0.58
2:C:1066:ALA:O	2:C:1070:ILE:HG13	2.03	0.58
3:D:32:ILE:HA	9:D:2671:HOH:O	2.04	0.58
3:D:481:MET:O	3:D:489:ARG:HB2	2.02	0.58
3:D:761:ILE:HD12	4:E:20:THR:HG23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:191:ASP:HA	9:K:2079:HOH:O	2.03	0.58
2:M:9:ILE:HG12	2:M:907:ASP:CG	2.28	0.58
2:M:24:GLU:HB3	9:M:9330:HOH:O	2.03	0.58
2:M:431:HIS:HB3	2:M:434:HIS:CD2	2.38	0.58
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.85	0.58
4:O:50:THR:HA	9:O:2107:HOH:O	2.03	0.58
1:A:113:ASP:HB3	9:A:9594:HOH:O	2.02	0.58
3:D:205:TYR:HE2	3:D:211:VAL:HG11	1.69	0.58
3:D:1264:GLU:HG3	9:D:9596:HOH:O	2.02	0.58
5:F:369:LEU:HA	9:F:2056:HOH:O	2.03	0.58
1:K:110:LYS:HB2	9:K:1330:HOH:O	2.04	0.58
1:K:217:ILE:HA	9:K:3364:HOH:O	2.02	0.58
2:M:148:PHE:CB	2:M:313:LEU:HD22	2.32	0.58
2:M:250:ARG:HE	2:M:253:ALA:HB3	1.66	0.58
2:M:1093:GLN:HE22	2:M:1098:ASP:HA	1.69	0.58
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.86	0.58
3:N:539:ASP:HB2	5:P:318:GLU:OE2	2.03	0.58
3:N:580:ALA:HA	3:N:584:ASN:OD1	2.03	0.58
3:N:774:SER:HB3	3:N:1362:LYS:O	2.03	0.58
3:N:1049:SER:HA	9:N:9571:HOH:O	2.01	0.58
4:O:8:LYS:O	4:O:12:MET:HG3	2.04	0.58
1:B:123:MET:C	1:B:125:PRO:HD3	2.28	0.58
2:C:129:ILE:HG22	2:C:130:ASN:N	2.18	0.58
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.85	0.58
4:E:63:TRP:O	4:E:67:GLU:HG3	2.04	0.58
2:M:897:LEU:HD11	2:M:920:GLN:HG3	1.86	0.58
3:N:710:ARG:HD2	9:N:9333:HOH:O	2.03	0.58
3:N:1493:LYS:HB2	9:N:2722:HOH:O	2.03	0.58
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.86	0.58
1:A:229:GLN:HB2	9:A:9707:HOH:O	2.02	0.58
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.38	0.58
2:C:250:ARG:HH21	2:C:254:VAL:H	1.52	0.58
2:C:526:PRO:HB2	9:C:2408:HOH:O	2.03	0.58
3:D:445:ARG:HG2	3:D:445:ARG:HH11	1.69	0.58
3:D:456:MET:HG2	3:D:568:ARG:HH11	1.69	0.58
4:E:40:LEU:HB2	4:E:45:ARG:NE	2.19	0.58
5:F:265:VAL:HB	9:F:9892:HOH:O	2.04	0.58
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.33	0.58
3:N:92:HIS:HA	3:N:519:VAL:HG23	1.85	0.58
3:N:149:LYS:HB2	9:N:9232:HOH:O	2.03	0.58
3:N:891:GLU:HB3	9:N:9355:HOH:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:58:PRO:HB2	9:O:4249:HOH:O	2.04	0.58
5:P:156:VAL:HG21	9:P:2305:HOH:O	2.03	0.58
5:P:234:LYS:HG2	9:P:1255:HOH:O	2.02	0.58
1:A:18:ARG:HH22	1:A:88:ARG:HH21	1.51	0.58
2:C:807:ARG:HD3	2:C:808:ARG:O	2.03	0.58
2:C:943:VAL:HG13	2:C:985:GLY:H	1.68	0.58
3:D:28:LYS:HD2	3:D:41:ARG:HH11	1.68	0.58
4:E:44:GLU:O	4:E:45:ARG:HD3	2.04	0.58
4:E:60:ALA:O	4:E:63:TRP:HB2	2.04	0.58
5:F:208:SER:HA	9:F:9649:HOH:O	2.03	0.58
2:M:244:PRO:HD2	2:M:245:GLY:H	1.68	0.58
2:M:554:ASP:HB2	2:M:880:MET:HB2	1.85	0.58
3:N:137:PRO:HD2	3:N:453:ASP:HB3	1.86	0.58
3:N:559:ALA:HA	9:N:9528:HOH:O	2.03	0.58
3:N:692:GLU:OE1	3:N:720:LEU:HB2	2.04	0.58
3:N:707:THR:HA	9:N:2395:HOH:O	2.04	0.58
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.28	0.57
3:D:434:ARG:HB3	9:D:9861:HOH:O	2.02	0.57
3:D:1240:THR:HG22	9:D:2840:HOH:O	2.03	0.57
9:D:2101:HOH:O	4:E:48:MET:HA	2.04	0.57
1:L:132:LEU:HD11	1:L:138:LEU:HD13	1.85	0.57
2:M:371:LYS:O	2:M:372:LEU:HD12	2.04	0.57
2:M:481:ASP:HA	9:M:9383:HOH:O	2.04	0.57
2:M:564:MET:SD	2:M:846:LYS:HE2	2.44	0.57
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.86	0.57
2:M:791:ARG:HB3	9:M:9305:HOH:O	2.03	0.57
2:M:1005:MET:HE2	3:N:648:MET:HE3	1.85	0.57
3:N:1404:ASN:HB3	9:N:9535:HOH:O	2.04	0.57
3:N:1487:VAL:HG12	3:N:1488:ASP:N	2.19	0.57
9:N:9746:HOH:O	5:P:141:VAL:HG21	2.03	0.57
2:C:213:ALA:HB3	9:C:2338:HOH:O	2.04	0.57
2:C:1021:LEU:HG	2:C:1022:GLY:N	2.18	0.57
3:D:131:LYS:HE2	3:D:568:ARG:HG2	1.86	0.57
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.86	0.57
3:D:489:ARG:HG3	3:D:493:ARG:NH1	2.11	0.57
3:D:996:TRP:CE2	3:D:1056:PRO:HG3	2.39	0.57
3:D:1321:ALA:O	3:D:1339:LYS:HD3	2.03	0.57
5:F:148:LYS:HA	9:F:9564:HOH:O	2.03	0.57
2:M:107:LEU:HD12	9:M:9281:HOH:O	2.03	0.57
2:M:142:ARG:HA	9:M:9253:HOH:O	2.04	0.57
3:N:430:ASP:HB2	3:N:432:TYR:CZ	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1025:GLN:HB2	9:N:2440:HOH:O	2.04	0.57
3:N:1209:LEU:HD21	4:O:16:LYS:HD2	1.85	0.57
1:B:18:ARG:O	1:B:207:PRO:HD3	2.04	0.57
2:C:4:LYS:HD2	9:C:2407:HOH:O	2.05	0.57
3:D:28:LYS:HB2	9:D:9655:HOH:O	2.04	0.57
4:E:51:LEU:HD12	4:E:52:GLU:N	2.19	0.57
1:K:123:MET:C	1:K:125:PRO:HD3	2.29	0.57
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.36	0.57
2:M:1093:GLN:HE22	2:M:1099:VAL:H	1.52	0.57
3:N:426:LYS:HB3	5:P:134:LYS:O	2.03	0.57
3:N:875:THR:HG22	3:N:879:ARG:HG3	1.86	0.57
3:N:1412:LYS:O	3:N:1414:PRO:HD3	2.03	0.57
5:P:406:ARG:HG3	9:P:3208:HOH:O	2.03	0.57
2:C:332:ARG:HD2	2:C:464:LEU:HG	1.86	0.57
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.33	0.57
5:F:82:ARG:O	5:F:86:HIS:HB2	2.03	0.57
5:F:416:ARG:HD2	5:F:419:ARG:CB	2.34	0.57
1:K:92:PRO:HD3	9:K:1224:HOH:O	2.05	0.57
1:L:152:PRO:HD2	1:L:155:LYS:CD	2.33	0.57
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.87	0.57
3:N:394:LEU:HA	9:N:9499:HOH:O	2.03	0.57
3:N:551:ASN:O	3:N:555:LYS:HG3	2.04	0.57
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.39	0.57
3:N:1195:GLN:HA	9:N:2116:HOH:O	2.04	0.57
3:N:1324:PRO:HA	9:N:9374:HOH:O	2.02	0.57
5:P:118:GLU:HB3	9:P:7908:HOH:O	2.04	0.57
1:B:178:ALA:C	1:B:198:ARG:HH21	2.12	0.57
2:C:20:GLU:HG2	2:C:24:GLU:HG2	1.86	0.57
2:C:70:GLU:HA	9:C:9597:HOH:O	2.03	0.57
2:C:1025:ALA:HA	9:C:9926:HOH:O	2.04	0.57
3:D:467:GLU:HB2	9:D:9601:HOH:O	2.05	0.57
3:D:813:LEU:O	3:D:817:GLU:HB2	2.03	0.57
3:D:1239:ARG:HB2	9:D:3207:HOH:O	2.04	0.57
3:D:1490:LYS:HG3	9:D:9922:HOH:O	2.04	0.57
4:E:41:GLU:H	4:E:42:PRO:HD2	1.70	0.57
5:F:269:ASN:O	5:F:273:ARG:HG3	2.04	0.57
2:M:144:PRO:HB2	9:M:9612:HOH:O	2.04	0.57
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.39	0.57
2:M:984:GLU:HG2	3:N:944:THR:O	2.04	0.57
3:N:36:THR:HG22	3:N:38:LYS:HG3	1.87	0.57
3:N:64:LYS:HZ3	5:P:377:ASP:HA	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:65:ARG:HD3	3:N:66:GLN:H	1.70	0.57
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.85	0.57
3:N:1198:TYR:OH	3:N:1397:LYS:HE3	2.05	0.57
5:P:79:ASP:O	5:P:83:GLN:HG3	2.04	0.57
5:P:290:GLU:HG3	9:P:1848:HOH:O	2.05	0.57
1:A:212:ASN:O	1:A:215:VAL:HG22	2.05	0.57
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.86	0.57
2:C:785:VAL:HG23	9:C:2281:HOH:O	2.04	0.57
4:E:36:LYS:HD3	9:E:9576:HOH:O	2.04	0.57
4:E:54:LEU:HG	4:E:58:PRO:HD2	1.86	0.57
5:F:205:ARG:HG3	5:F:251:ILE:HD13	1.86	0.57
5:F:300:ASP:HA	9:F:9948:HOH:O	2.03	0.57
1:K:112:ARG:HD2	9:K:3292:HOH:O	2.03	0.57
1:L:156:HIS:HD2	1:L:158:ILE:HG12	1.69	0.57
2:M:545:ASN:O	2:M:905:ILE:HD11	2.03	0.57
2:M:564:MET:HE1	2:M:846:LYS:HE2	1.86	0.57
2:M:642:ARG:HB3	9:M:9448:HOH:O	2.04	0.57
2:M:964:LYS:O	2:M:968:LEU:HG	2.04	0.57
3:N:119:SER:CB	3:N:123:LEU:HB2	2.33	0.57
3:N:925:GLU:HG2	9:O:1095:HOH:O	2.03	0.57
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.87	0.57
1:A:10:VAL:HG21	9:A:9712:HOH:O	2.04	0.57
1:B:81:ASN:HB2	9:B:9809:HOH:O	2.03	0.57
2:C:677:MET:SD	2:C:987:ILE:HD13	2.44	0.57
3:D:194:GLY:H	3:D:206:ARG:HA	1.69	0.57
3:D:999:THR:O	3:D:1002:LYS:HB2	2.05	0.57
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.40	0.57
3:D:1435:LEU:HB2	3:D:1457:ASP:OD2	2.04	0.57
5:F:366:ALA:O	5:F:370:LYS:HB3	2.04	0.57
1:K:62:LEU:HD11	9:K:8889:HOH:O	2.04	0.57
2:M:165:LEU:HD21	2:M:334:ARG:NH2	2.20	0.57
2:M:524:VAL:HG22	2:M:525:SER:H	1.70	0.57
2:M:645:VAL:HG23	9:M:9422:HOH:O	2.05	0.57
3:N:95:LEU:HD12	3:N:515:GLU:CA	2.34	0.57
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.33	0.57
3:N:1164:ARG:HA	9:N:9915:HOH:O	2.04	0.57
3:N:1250:ALA:HB3	9:N:9357:HOH:O	2.04	0.57
5:P:416:ARG:HD2	5:P:419:ARG:CB	2.33	0.57
2:C:64:LEU:HD13	2:C:359:MET:SD	2.45	0.57
2:C:145:GLY:HA3	9:C:2144:HOH:O	2.04	0.57
2:C:163:ILE:HB	9:C:9761:HOH:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:203:ASP:O	2:C:207:LEU:HB2	2.03	0.57
2:C:417:GLY:O	2:C:418:LEU:HD13	2.05	0.57
2:C:495:THR:CG2	2:C:517:ARG:HE	2.15	0.57
2:C:538:GLN:HB2	9:C:2365:HOH:O	2.04	0.57
3:D:83:SER:HA	9:D:9574:HOH:O	2.05	0.57
3:D:642:CYS:SG	3:D:716:PHE:HB2	2.44	0.57
3:D:966:GLU:HG2	3:D:970:LYS:HE2	1.87	0.57
3:D:1119:SER:HB3	3:D:1185:GLU:HB3	1.85	0.57
3:D:1429:LEU:HG	9:D:2007:HOH:O	2.04	0.57
4:E:15:SER:HB2	9:E:9581:HOH:O	2.05	0.57
5:F:288:TYR:HD2	5:F:304:VAL:HB	1.70	0.57
2:M:194:VAL:HG12	9:M:9819:HOH:O	2.04	0.57
2:M:244:PRO:HG2	2:M:246:ASP:OD2	2.04	0.57
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.86	0.57
2:M:758:ARG:HB3	2:M:789:SER:HA	1.85	0.57
3:N:179:VAL:HG21	9:N:2712:HOH:O	2.04	0.57
3:N:191:LEU:CB	3:N:195:VAL:HG21	2.30	0.57
3:N:431:VAL:HG13	9:N:9967:HOH:O	2.05	0.57
3:N:659:LYS:HG3	9:N:9809:HOH:O	2.02	0.57
3:N:1133:ARG:HD2	9:N:9227:HOH:O	2.04	0.57
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.04	0.57
3:N:1495:ILE:HD11	4:O:84:ARG:HE	1.69	0.57
1:A:211:LEU:O	1:A:215:VAL:HG13	2.03	0.57
2:C:9:ILE:HG13	2:C:907:ASP:OD2	2.05	0.57
2:C:13:ILE:HD13	2:C:483:VAL:HG21	1.87	0.57
2:C:208:ALA:HA	2:C:218:VAL:CG2	2.35	0.57
3:D:32:ILE:O	5:F:258:ILE:HG23	2.03	0.57
3:D:396:VAL:HG22	3:D:447:VAL:HB	1.87	0.57
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.86	0.57
3:D:871:LYS:HG3	3:D:873:LEU:HG	1.87	0.57
3:D:1094:LEU:HB3	9:D:2067:HOH:O	2.05	0.57
1:K:62:LEU:H	1:K:62:LEU:HD12	1.70	0.57
1:K:202:ASP:HA	9:K:1200:HOH:O	2.05	0.57
2:M:66:LEU:HD11	2:M:98:LEU:HD22	1.87	0.57
2:M:152:PRO:HA	9:M:2090:HOH:O	2.04	0.57
3:N:25:GLU:HB3	9:N:9871:HOH:O	2.03	0.57
3:N:584:ASN:H	3:N:602:SER:CB	2.18	0.57
3:N:704:ARG:NH1	3:N:743:ASP:HB3	2.19	0.57
5:P:194:LEU:HD22	9:P:1975:HOH:O	2.05	0.57
5:P:250:ALA:HB2	9:P:3340:HOH:O	2.04	0.57
2:C:10:ARG:HG3	9:C:2815:HOH:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:65:VAL:O	2:C:101:ILE:HG12	2.05	0.57
2:C:278:GLU:HG2	2:C:283:ILE:O	2.05	0.57
2:C:807:ARG:HG2	9:C:9967:HOH:O	2.05	0.57
3:D:117:ASP:HB2	3:D:495:ARG:NH2	2.19	0.57
3:D:192:ALA:O	3:D:195:VAL:HG23	2.04	0.57
3:D:661:MET:HE3	3:D:673:ALA:HB1	1.87	0.57
3:D:799:LYS:HG2	3:D:826:PRO:HG2	1.86	0.57
3:D:1189:ARG:HB3	3:D:1204:CYS:HA	1.87	0.57
5:F:153:PRO:HB3	9:F:2137:HOH:O	2.05	0.57
5:F:316:SER:OG	5:F:318:GLU:HG3	2.04	0.57
2:M:226:VAL:HG12	9:M:2432:HOH:O	2.05	0.57
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.20	0.57
2:M:737:LEU:HD11	2:M:754:ILE:HB	1.85	0.57
3:N:1031:ASN:HB3	3:N:1034:GLN:NE2	2.20	0.57
3:N:1096:ARG:HB2	3:N:1096:ARG:HH11	1.69	0.57
4:O:41:GLU:HB3	9:O:4432:HOH:O	2.04	0.57
5:P:74:LYS:HB2	9:P:2234:HOH:O	2.04	0.57
2:C:250:ARG:HD3	9:C:9820:HOH:O	2.05	0.56
2:C:446:GLY:O	2:C:449:ILE:HG13	2.05	0.56
2:C:1008:ARG:HD2	2:C:1028:GLY:C	2.30	0.56
3:D:834:THR:HB	3:D:838:ARG:HE	1.70	0.56
3:D:1364:HIS:NE2	3:D:1366:LYS:HE3	2.20	0.56
3:D:1390:LEU:HB2	9:D:2140:HOH:O	2.03	0.56
3:D:1503:VAL:HG11	9:D:2031:HOH:O	2.05	0.56
2:M:183:SER:CB	2:M:190:LYS:HD3	2.34	0.56
2:M:367:LEU:O	2:M:372:LEU:HD13	2.05	0.56
2:M:545:ASN:ND2	2:M:905:ILE:HG13	2.19	0.56
2:M:612:VAL:HG22	2:M:622:GLU:HA	1.87	0.56
2:M:1085:PHE:O	2:M:1088:LEU:HB3	2.05	0.56
3:N:601:ARG:HB2	5:P:318:GLU:CD	2.30	0.56
3:N:1433:SER:HB2	3:N:1457:ASP:CG	2.30	0.56
5:P:252:ALA:CB	5:P:265:VAL:HG21	2.30	0.56
5:P:347:GLN:HB3	9:P:5652:HOH:O	2.04	0.56
5:P:368:VAL:HA	9:P:5682:HOH:O	2.03	0.56
1:A:141:GLU:HG3	9:A:9798:HOH:O	2.05	0.56
2:C:1009:SER:HB2	3:D:651:GLU:O	2.05	0.56
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.86	0.56
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.85	0.56
1:L:83:LYS:HE2	1:L:167:VAL:HG12	1.86	0.56
2:M:490:GLU:HG2	2:M:494:TYR:CE1	2.40	0.56
3:N:423:ASP:OD2	5:P:174:LEU:HD22	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:524:LEU:C	3:N:526:PRO:HD3	2.30	0.56
4:O:32:ARG:HH11	4:O:32:ARG:HB2	1.70	0.56
4:O:44:GLU:O	4:O:45:ARG:HD3	2.04	0.56
4:O:51:LEU:C	4:O:53:GLY:H	2.12	0.56
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.40	0.56
1:A:119:ASP:HB3	9:A:9566:HOH:O	2.05	0.56
1:B:153:ALA:HA	1:B:156:HIS:CE1	2.40	0.56
1:B:162:ILE:HD13	9:B:9631:HOH:O	2.05	0.56
2:C:183:SER:OG	2:C:190:LYS:HD3	2.05	0.56
2:C:349:ALA:O	2:C:353:ARG:HG3	2.05	0.56
2:C:420:ARG:HD2	9:C:2422:HOH:O	2.05	0.56
2:C:866:PRO:HD2	9:C:9657:HOH:O	2.05	0.56
9:C:9888:HOH:O	3:D:651:GLU:HB3	2.05	0.56
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.87	0.56
3:D:573:MET:SD	5:F:210:LEU:HB3	2.46	0.56
3:D:1127:GLU:HB3	9:D:9585:HOH:O	2.04	0.56
5:F:228:GLU:HA	9:F:9639:HOH:O	2.04	0.56
5:F:406:ARG:HG2	5:F:409:LYS:HD3	1.86	0.56
1:L:188:GLN:HA	9:L:1637:HOH:O	2.05	0.56
2:M:2:GLU:HA	9:M:9520:HOH:O	2.05	0.56
2:M:160:ALA:HB3	2:M:174:LEU:HB2	1.88	0.56
2:M:233:GLU:HG3	9:M:2295:HOH:O	2.04	0.56
2:M:588:VAL:HG21	2:M:664:GLY:O	2.04	0.56
2:M:673:LEU:HB2	9:M:9318:HOH:O	2.04	0.56
2:M:734:LEU:O	2:M:737:LEU:HB2	2.06	0.56
2:M:1016:ILE:CD1	3:N:526:PRO:HG2	2.35	0.56
3:N:194:GLY:H	3:N:206:ARG:HA	1.70	0.56
3:N:379:ALA:HB2	9:N:2337:HOH:O	2.05	0.56
3:N:601:ARG:HH11	3:N:605:ASP:HB3	1.70	0.56
3:N:807:ALA:HB1	9:N:9607:HOH:O	2.06	0.56
3:N:955:VAL:O	3:N:1039:CYS:HB3	2.06	0.56
3:N:984:THR:HG22	3:N:987:GLU:H	1.69	0.56
3:N:1197:ARG:HB2	3:N:1396:GLU:OE2	2.04	0.56
3:N:1203:LYS:HD3	9:N:9886:HOH:O	2.04	0.56
3:N:1348:LEU:O	3:N:1352:ILE:HG13	2.05	0.56
3:N:1369:GLU:HB3	9:N:9676:HOH:O	2.06	0.56
5:P:262:VAL:HG23	9:P:3231:HOH:O	2.05	0.56
5:P:287:THR:HG22	5:P:290:GLU:OE1	2.05	0.56
1:A:49:PRO:HA	1:A:148:VAL:HG22	1.86	0.56
2:C:185:LYS:HD3	2:C:190:LYS:HE2	1.86	0.56
2:C:374:ASN:O	2:C:377:PRO:HD2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:804:VAL:HG11	9:C:2137:HOH:O	2.05	0.56
2:C:841:ASN:C	2:C:841:ASN:HD22	2.12	0.56
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.87	0.56
2:C:1108:PRO:HG3	9:C:9868:HOH:O	2.05	0.56
3:D:820:GLU:HA	3:D:825:ALA:O	2.04	0.56
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	1.86	0.56
3:D:1332:PRO:HB2	9:D:9823:HOH:O	2.04	0.56
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.11	0.56
4:E:46:PRO:HD2	9:E:9659:HOH:O	2.04	0.56
5:F:358:LEU:HG	5:F:367:MET:HE1	1.87	0.56
1:K:151:VAL:HB	1:K:169:ALA:HB3	1.86	0.56
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.86	0.56
3:N:631:ILE:HG12	3:N:743:ASP:O	2.05	0.56
2:C:859:PRO:O	2:C:867:VAL:HG22	2.05	0.56
2:C:861:LEU:HD23	2:C:862:PRO:N	2.21	0.56
3:D:141:ILE:H	3:D:141:ILE:HD12	1.69	0.56
3:D:168:THR:CB	3:D:393:ILE:HD12	2.36	0.56
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.05	0.56
5:F:80:PRO:HG2	9:F:9637:HOH:O	2.04	0.56
5:F:413:SER:HA	5:F:416:ARG:CZ	2.36	0.56
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.31	0.56
3:N:12:LEU:HD23	3:N:13:ALA:H	1.70	0.56
3:N:148:GLU:HA	9:N:9837:HOH:O	2.04	0.56
3:N:169:TYR:N	3:N:170:PRO:HD3	2.20	0.56
3:N:169:TYR:HA	3:N:392:SER:HA	1.87	0.56
3:N:172:PRO:HA	3:N:178:LEU:HD13	1.88	0.56
3:N:221:ALA:HA	9:N:9249:HOH:O	2.04	0.56
3:N:681:ARG:NH1	3:N:681:ARG:HB2	2.20	0.56
3:N:834:THR:HA	3:N:838:ARG:HH21	1.70	0.56
3:N:999:THR:O	3:N:1002:LYS:HB2	2.06	0.56
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.05	0.56
5:P:160:ASP:O	5:P:163:LEU:HB2	2.05	0.56
1:A:188:GLN:HG3	1:A:189:ARG:H	1.71	0.56
2:C:1:MET:HE1	9:C:9616:HOH:O	2.06	0.56
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.87	0.56
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.87	0.56
3:D:64:LYS:HD3	9:F:9603:HOH:O	2.04	0.56
3:D:447:VAL:HG22	9:D:9908:HOH:O	2.05	0.56
3:D:893:GLU:HB2	9:D:2572:HOH:O	2.06	0.56
3:D:1087:ARG:NH1	3:D:1234:THR:HA	2.21	0.56
5:F:92:PRO:HB3	9:F:9758:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:70:GLY:HA2	1:K:133:GLU:HG2	1.87	0.56
1:L:18:ARG:O	1:L:207:PRO:HD3	2.06	0.56
2:M:292:ARG:HB2	2:M:299:LYS:HZ2	1.71	0.56
2:M:696:LYS:HA	9:M:9221:HOH:O	2.06	0.56
2:M:710:ILE:HB	2:M:790:LEU:HD22	1.86	0.56
3:N:430:ASP:HB2	3:N:432:TYR:CE2	2.41	0.56
2:C:101:ILE:HG22	2:C:102:HIS:H	1.71	0.56
2:C:367:LEU:O	2:C:372:LEU:HD13	2.06	0.56
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.36	0.56
3:D:828:LYS:HD3	3:D:828:LYS:N	2.20	0.56
3:D:1018:ASN:O	3:D:1022:VAL:HG23	2.06	0.56
3:D:1381:VAL:HB	3:D:1389:LEU:O	2.05	0.56
4:E:44:GLU:HA	9:E:9565:HOH:O	2.04	0.56
5:F:102:LEU:O	5:F:106:VAL:HG23	2.06	0.56
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.87	0.56
1:K:63:HIS:HA	9:K:1147:HOH:O	2.06	0.56
1:L:123:MET:HE3	9:L:2931:HOH:O	2.05	0.56
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.88	0.56
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.05	0.56
2:M:654:LEU:HD21	2:M:663:ASN:ND2	2.21	0.56
2:M:760:SER:O	2:M:785:VAL:HG22	2.05	0.56
2:M:889:HIS:NE2	2:M:970:GLY:HA3	2.21	0.56
3:N:86:ARG:O	3:N:522:PRO:HD2	2.06	0.56
3:N:877:PRO:O	3:N:880:ILE:HG22	2.05	0.56
3:N:1433:SER:HB2	3:N:1457:ASP:OD2	2.06	0.56
5:P:120:THR:HB	5:P:122:LEU:HB2	1.88	0.56
5:P:135:ILE:HD11	5:P:178:ARG:HB3	1.88	0.56
5:P:267:THR:HG23	5:P:299:TRP:HH2	1.70	0.56
1:A:224:TYR:CD1	1:B:9:PRO:HD2	2.41	0.56
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.88	0.56
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.41	0.56
2:C:208:ALA:HA	2:C:218:VAL:HG21	1.87	0.56
3:D:118:LEU:O	3:D:120:ALA:N	2.39	0.56
3:D:123:LEU:HA	9:D:2113:HOH:O	2.06	0.56
3:D:131:LYS:HB3	3:D:568:ARG:HG2	1.87	0.56
3:D:456:MET:HE3	3:D:571:LYS:HZ1	1.71	0.56
3:D:1137:ARG:H	3:D:1137:ARG:CD	2.18	0.56
3:D:1379:VAL:HG22	9:D:2424:HOH:O	2.05	0.56
1:K:73:GLU:HG3	1:K:130:ALA:HA	1.88	0.56
2:M:56:GLU:HB3	9:M:9316:HOH:O	2.06	0.56
2:M:117:HIS:HB2	9:M:9333:HOH:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:237:ARG:HG2	9:M:9833:HOH:O	2.05	0.56
2:M:674:VAL:HG12	2:M:990:GLY:O	2.06	0.56
3:N:553:ARG:HA	3:N:556:LYS:HD3	1.86	0.56
3:N:1045:MET:CG	3:N:1073:SER:HA	2.33	0.56
4:O:7:ASP:HB2	9:O:4398:HOH:O	2.05	0.56
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.40	0.56
2:C:44:ILE:HA	9:C:9646:HOH:O	2.05	0.56
2:C:47:ALA:HA	9:C:9778:HOH:O	2.05	0.56
2:C:63:GLY:HA3	2:C:103:LYS:HG2	1.88	0.56
2:C:244:PRO:CD	2:C:245:GLY:H	2.16	0.56
2:C:476:GLY:C	2:C:478:VAL:H	2.14	0.56
3:D:1277:ILE:HG22	3:D:1278:ASP:N	2.21	0.56
4:E:48:MET:HG2	4:E:49:GLN:H	1.70	0.56
2:M:14:PRO:HA	9:M:9656:HOH:O	2.06	0.56
2:M:261:ILE:HG22	2:M:262:ALA:H	1.71	0.56
2:M:573:ARG:HB3	2:M:670:GLN:NE2	2.20	0.56
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.87	0.56
3:N:1294:VAL:HB	9:N:9684:HOH:O	2.04	0.56
5:P:141:VAL:HB	9:P:2295:HOH:O	2.06	0.56
5:P:151:LEU:HB3	9:P:4293:HOH:O	2.05	0.56
5:P:205:ARG:HG3	5:P:251:ILE:HD13	1.87	0.56
1:A:206:THR:CG2	1:A:209:GLU:HG3	2.36	0.56
2:C:99:GLN:HB3	2:C:109:LYS:HG3	1.87	0.56
2:C:247:PRO:HD2	9:C:9820:HOH:O	2.06	0.56
2:C:734:LEU:O	2:C:737:LEU:HB2	2.06	0.56
2:C:742:VAL:HG21	9:C:9683:HOH:O	2.06	0.56
3:D:432:TYR:HB3	3:D:448:GLU:HA	1.88	0.56
3:D:496:LEU:HD11	3:D:500:ARG:HE	1.70	0.56
3:D:728:LEU:HD22	3:D:745:MET:SD	2.45	0.56
3:D:1150:ALA:HA	9:D:9851:HOH:O	2.06	0.56
3:D:1314:LYS:HD3	3:D:1314:LYS:N	2.21	0.56
3:D:1412:LYS:O	3:D:1414:PRO:HD3	2.06	0.56
5:F:287:THR:HG22	5:F:290:GLU:OE1	2.06	0.56
1:K:41:ARG:HG3	1:K:177:VAL:HB	1.88	0.56
1:K:88:ARG:NH1	1:K:90:LEU:HD23	2.21	0.56
1:K:192:LEU:HD21	9:K:1294:HOH:O	2.06	0.56
2:M:770:GLU:HB3	5:P:350:LEU:HD21	1.88	0.56
2:M:881:ASN:H	2:M:881:ASN:ND2	2.03	0.56
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.87	0.56
3:N:709:HIS:CD2	3:N:1231:GLU:HG3	2.41	0.56
3:N:1462:LEU:HD21	3:N:1474:ALA:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:124:PRO:HB3	9:P:1676:HOH:O	2.06	0.56
2:C:831:ARG:HA	9:C:9680:HOH:O	2.06	0.55
3:D:12:LEU:HD21	3:D:104:PHE:HE1	1.71	0.55
3:D:207:PHE:HA	9:D:3106:HOH:O	2.05	0.55
3:D:1065:LEU:HD12	3:D:1069:GLU:HB3	1.88	0.55
2:M:398:THR:HA	2:M:633:GLN:HG3	1.88	0.55
3:N:22:SER:HA	3:N:90:MET:O	2.06	0.55
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.32	0.55
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.87	0.55
3:N:390:PRO:HG2	5:P:98:GLU:OE1	2.06	0.55
4:O:32:ARG:HB2	4:O:32:ARG:NH1	2.20	0.55
4:O:47:LYS:N	4:O:54:LEU:HD22	2.22	0.55
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.87	0.55
1:A:115:LEU:HB3	9:A:9587:HOH:O	2.06	0.55
2:C:723:THR:C	2:C:725:ASP:H	2.14	0.55
2:C:890:LEU:HD13	2:C:914:ILE:HG13	1.88	0.55
3:D:400:VAL:HA	3:D:442:ASN:O	2.06	0.55
2:M:369:PRO:HB3	9:M:2382:HOH:O	2.07	0.55
2:M:492:ASP:HB3	2:M:518:LYS:HD2	1.87	0.55
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.88	0.55
3:N:456:MET:SD	3:N:568:ARG:HD3	2.46	0.55
3:N:1029:ARG:CZ	8:N:9101:G4P:O2D	2.54	0.55
5:P:197:SER:HB2	9:P:5517:HOH:O	2.06	0.55
1:B:170:VAL:HG22	9:B:9562:HOH:O	2.05	0.55
2:C:614:ARG:HD2	9:C:2802:HOH:O	2.07	0.55
3:D:456:MET:HE3	3:D:571:LYS:NZ	2.22	0.55
3:D:1473:PRO:HB2	9:D:3112:HOH:O	2.05	0.55
4:E:45:ARG:HB3	4:E:46:PRO:HD2	1.89	0.55
5:F:361:LEU:HD21	5:F:408:LEU:HD12	1.88	0.55
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.70	0.55
1:L:177:VAL:HG13	1:L:197:LEU:HD21	1.88	0.55
2:M:191:PHE:HA	9:M:9556:HOH:O	2.06	0.55
2:M:482:GLU:HB3	9:M:9208:HOH:O	2.06	0.55
2:M:553:ASP:HA	2:M:881:ASN:HA	1.88	0.55
2:M:670:GLN:HE22	2:M:699:PHE:HA	1.71	0.55
2:M:768:THR:HG22	2:M:771:GLU:H	1.72	0.55
3:N:166:GLN:HB3	3:N:395:VAL:HG21	1.87	0.55
3:N:477:LEU:HD23	9:N:2072:HOH:O	2.06	0.55
3:N:703:ASN:HD22	3:N:713:ILE:HG12	1.71	0.55
3:N:964:LEU:HG	9:N:9387:HOH:O	2.06	0.55
3:N:1008:PHE:O	3:N:1012:GLU:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1390:LEU:HD22	9:N:9553:HOH:O	2.06	0.55
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.41	0.55
9:N:2002:HOH:O	5:P:315:VAL:HG11	2.06	0.55
1:A:138:LEU:HD11	1:A:140:MET:HE2	1.87	0.55
1:A:223:THR:HG22	9:A:9752:HOH:O	2.05	0.55
1:B:175:ARG:O	3:D:851:LEU:HD21	2.07	0.55
2:C:139:GLN:NE2	2:C:415:PRO:HD2	2.17	0.55
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.87	0.55
2:C:503:LEU:HD12	2:C:507:ARG:O	2.06	0.55
2:C:949:LYS:HD2	3:D:796:ARG:NH2	2.21	0.55
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.07	0.55
3:D:644:LEU:HG	3:D:718:PRO:HB3	1.89	0.55
3:D:693:GLU:HG3	4:E:48:MET:HE1	1.88	0.55
3:D:908:LYS:HB3	3:D:1027:GLY:CA	2.27	0.55
5:F:115:LYS:HE3	9:F:9566:HOH:O	2.07	0.55
9:K:1228:HOH:O	2:M:856:GLU:HB3	2.06	0.55
2:M:250:ARG:HE	2:M:253:ALA:CB	2.19	0.55
3:N:625:TYR:O	3:N:749:VAL:HG23	2.07	0.55
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.41	0.55
3:N:1119:SER:HB2	3:N:1185:GLU:HB3	1.87	0.55
3:N:1137:ARG:HA	9:N:9839:HOH:O	2.06	0.55
5:P:81:VAL:HG23	9:P:1606:HOH:O	2.04	0.55
5:P:161:GLN:HG2	9:P:1559:HOH:O	2.06	0.55
1:A:198:ARG:HH22	2:C:932:GLU:CD	2.13	0.55
1:B:7:LYS:HB3	1:B:7:LYS:HZ2	1.72	0.55
1:B:48:ILE:HG22	1:B:173:PRO:HD2	1.87	0.55
2:C:57:GLU:O	2:C:62:GLY:HA3	2.06	0.55
3:D:141:ILE:HG23	9:D:9965:HOH:O	2.06	0.55
3:D:165:LYS:O	3:D:165:LYS:HD3	2.06	0.55
3:D:596:SER:C	3:D:598:ARG:H	2.14	0.55
3:D:775:GLY:HA3	3:D:1145:TYR:CE1	2.37	0.55
4:E:90:GLU:HB2	9:E:9648:HOH:O	2.05	0.55
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.89	0.55
5:F:166:LEU:O	5:F:171:LYS:HB2	2.06	0.55
5:F:280:GLN:HG2	5:F:281:GLU:HG3	1.89	0.55
5:F:320:PRO:O	5:F:321:ILE:HD13	2.07	0.55
2:M:3:ILE:HG22	9:M:9511:HOH:O	2.05	0.55
2:M:841:ASN:HD22	2:M:841:ASN:H	1.55	0.55
3:N:481:MET:HE1	3:N:1388:ARG:HG3	1.87	0.55
3:N:613:ARG:HD2	9:N:2236:HOH:O	2.06	0.55
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.14	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1449:GLU:O	3:N:1452:ILE:HG22	2.07	0.55
3:N:1497:GLU:O	3:N:1501:GLU:HG3	2.07	0.55
5:P:85:LEU:HD13	9:P:5383:HOH:O	2.05	0.55
2:C:328:LEU:HD21	2:C:434:HIS:HD2	1.71	0.55
2:C:333:ILE:HD13	2:C:467:ILE:HD11	1.87	0.55
3:D:539:ASP:HA	9:D:2979:HOH:O	2.06	0.55
3:D:570:GLU:HB2	5:F:214:GLN:NE2	2.21	0.55
3:D:1341:PRO:O	3:D:1344:VAL:HG23	2.07	0.55
5:F:143:HIS:HB3	9:F:9613:HOH:O	2.05	0.55
1:K:49:PRO:HA	1:K:148:VAL:HG12	1.89	0.55
1:K:86:VAL:HG13	1:K:123:MET:HB2	1.89	0.55
1:K:171:PHE:O	1:K:172:SER:C	2.50	0.55
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	2.21	0.55
2:M:524:VAL:CG2	2:M:528:GLU:HB2	2.36	0.55
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.88	0.55
1:B:6:LEU:C	1:B:8:ALA:H	2.14	0.55
1:B:99:LEU:HA	9:B:9656:HOH:O	2.06	0.55
2:C:227:PHE:HB3	9:C:2116:HOH:O	2.07	0.55
2:C:254:VAL:HG22	2:C:258:TYR:CE1	2.42	0.55
2:C:290:LEU:HB3	9:C:9841:HOH:O	2.05	0.55
2:C:577:PRO:HG3	2:C:993:PHE:CZ	2.42	0.55
3:D:92:HIS:HA	3:D:519:VAL:HG23	1.87	0.55
3:D:93:ILE:HG22	9:D:2002:HOH:O	2.07	0.55
3:D:126:VAL:HG11	9:D:2381:HOH:O	2.05	0.55
3:D:138:LYS:HG3	9:D:2920:HOH:O	2.05	0.55
3:D:485:SER:HB2	9:D:3145:HOH:O	2.05	0.55
3:D:710:ARG:HG3	3:D:711:LEU:HD22	1.89	0.55
3:D:1118:ILE:HD11	3:D:1192:LEU:HB2	1.89	0.55
3:D:1389:LEU:HD23	3:D:1389:LEU:H	1.72	0.55
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.31	0.55
1:L:214:ALA:HA	1:L:217:ILE:HD12	1.88	0.55
2:M:218:VAL:HG13	9:M:9323:HOH:O	2.07	0.55
2:M:226:VAL:HG21	9:M:2143:HOH:O	2.05	0.55
2:M:275:TYR:O	2:M:279:GLU:HG2	2.05	0.55
2:M:417:GLY:O	2:M:418:LEU:HD13	2.06	0.55
2:M:777:ILE:HG13	5:P:405:LEU:HD11	1.88	0.55
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.89	0.55
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.87	0.55
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.42	0.55
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.72	0.55
3:N:596:SER:C	3:N:598:ARG:H	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:758:GLU:HB3	4:O:20:THR:HG21	1.88	0.55
4:O:31:LEU:HD21	4:O:60:ALA:CB	2.36	0.55
4:O:42:PRO:HD2	9:O:4230:HOH:O	2.05	0.55
5:P:363:GLU:HG2	5:P:364:ARG:N	2.22	0.55
1:B:7:LYS:O	1:B:7:LYS:HD2	2.07	0.55
2:C:367:LEU:HA	2:C:371:LYS:HB2	1.89	0.55
2:C:444:PRO:HA	9:C:9645:HOH:O	2.06	0.55
2:C:492:ASP:HB2	9:C:2376:HOH:O	2.06	0.55
2:C:677:MET:HE1	2:C:983:ILE:HD13	1.88	0.55
3:D:645:PRO:HA	3:D:721:VAL:O	2.07	0.55
1:K:158:ILE:HB	9:K:2046:HOH:O	2.05	0.55
2:M:57:GLU:O	2:M:62:GLY:HA3	2.06	0.55
3:N:36:THR:HG22	9:N:9685:HOH:O	2.06	0.55
3:N:141:ILE:HG21	9:N:9453:HOH:O	2.06	0.55
3:N:149:LYS:HD3	3:N:149:LYS:H	1.71	0.55
3:N:787:LEU:HD21	3:N:947:ILE:HD13	1.88	0.55
3:N:1243:THR:HB	3:N:1253:THR:HB	1.88	0.55
1:A:104:GLU:HB2	9:A:9584:HOH:O	2.06	0.55
2:C:1038:TRP:NE1	3:D:1099:VAL:HG11	2.21	0.55
3:D:543:LEU:HA	3:D:546:ARG:HG2	1.89	0.55
3:D:1101:VAL:HG11	3:D:1427:SER:HB3	1.88	0.55
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	2.06	0.55
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.07	0.55
3:D:1468:LEU:HD21	9:D:2087:HOH:O	2.07	0.55
5:F:136:LEU:HD11	5:F:141:VAL:HG21	1.89	0.55
5:F:153:PRO:HG2	5:F:154:LYS:H	1.71	0.55
1:K:27:PRO:HB2	9:K:1056:HOH:O	2.06	0.55
1:K:42:ARG:HD2	9:K:4396:HOH:O	2.07	0.55
1:L:48:ILE:HG22	1:L:173:PRO:HD2	1.88	0.55
2:M:323:ASP:HA	9:M:9235:HOH:O	2.06	0.55
2:M:720:GLU:HG2	9:M:9228:HOH:O	2.07	0.55
3:N:107:ASP:OD2	3:N:109:PRO:HD2	2.07	0.55
3:N:1496:GLU:HB2	9:N:9255:HOH:O	2.05	0.55
5:P:170:HIS:HA	5:P:173:TYR:CD1	2.41	0.55
5:P:196:VAL:O	5:P:200:LYS:HB2	2.07	0.55
1:A:178:ALA:CB	2:C:864:GLY:H	2.20	0.55
1:B:23:PHE:CZ	1:B:208:LEU:HD22	2.42	0.55
2:C:405:ARG:HD3	2:C:543:ASN:ND2	2.22	0.55
2:C:589:ARG:HD3	2:C:596:TYR:CE2	2.41	0.55
2:C:755:LEU:CD1	2:C:825:VAL:HG11	2.34	0.55
3:D:53:ILE:HG22	9:D:2190:HOH:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:554:LEU:HG	9:D:9809:HOH:O	2.06	0.55
3:D:812:ALA:HA	9:D:9733:HOH:O	2.06	0.55
3:D:1442:ASN:HB3	9:D:3067:HOH:O	2.06	0.55
4:E:84:ARG:HD2	4:E:87:LYS:HD3	1.89	0.55
5:F:131:VAL:HG13	5:F:178:ARG:HD3	1.87	0.55
1:K:60:ASP:HB3	9:K:4731:HOH:O	2.06	0.55
1:K:146:ARG:HG3	9:K:1164:HOH:O	2.06	0.55
1:L:41:ARG:NH1	1:L:177:VAL:HB	2.21	0.55
2:M:534:VAL:H	2:M:538:GLN:HE22	1.55	0.55
2:M:614:ARG:HD3	9:M:9224:HOH:O	2.05	0.55
2:M:944:LEU:O	2:M:947:ALA:HB3	2.07	0.55
2:M:1105:LYS:HG2	9:M:9543:HOH:O	2.07	0.55
3:N:112:ILE:HD11	3:N:124:GLU:CD	2.32	0.55
2:C:295:ASP:C	2:C:297:GLU:H	2.15	0.54
3:D:133:ILE:HG12	9:D:9996:HOH:O	2.06	0.54
3:D:729:HIS:CE1	3:D:731:LEU:HG	2.42	0.54
3:D:1487:VAL:HG23	4:E:74:VAL:O	2.07	0.54
1:K:9:PRO:HD2	1:L:224:TYR:CD1	2.41	0.54
1:K:76:VAL:HA	1:K:79:ILE:HG12	1.89	0.54
2:M:476:GLY:C	2:M:478:VAL:H	2.16	0.54
2:M:567:GLN:HE22	2:M:838:LYS:NZ	2.05	0.54
3:N:177:ALA:CA	3:N:199:LEU:HD13	2.38	0.54
3:N:596:SER:HA	9:N:2771:HOH:O	2.08	0.54
3:N:1119:SER:HA	3:N:1186:VAL:O	2.07	0.54
5:P:125:ASP:O	5:P:129:GLU:HG2	2.07	0.54
1:B:135:GLY:HA3	9:B:9591:HOH:O	2.08	0.54
2:C:111:ASP:HA	9:C:2107:HOH:O	2.06	0.54
2:C:607:ASP:C	2:C:609:ASN:H	2.15	0.54
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.37	0.54
3:D:470:LEU:HB2	3:D:503:LEU:HD21	1.89	0.54
3:D:487:ALA:HB1	3:D:488:ARG:HH21	1.71	0.54
3:D:1468:LEU:O	3:D:1468:LEU:HD23	2.07	0.54
3:D:1481:VAL:CG1	4:E:18:ARG:HA	2.34	0.54
4:E:57:ASP:H	4:E:58:PRO:HD3	1.73	0.54
5:F:93:LEU:HG	5:F:190:ALA:CB	2.37	0.54
5:F:302:LYS:HA	9:F:9730:HOH:O	2.06	0.54
5:F:371:LEU:HD11	9:F:9735:HOH:O	2.07	0.54
2:M:108:ILE:HG12	9:M:2211:HOH:O	2.06	0.54
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.88	0.54
3:N:648:MET:HG2	3:N:652:LEU:HD23	1.88	0.54
5:P:323:ASP:HB3	9:P:4379:HOH:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:897:LEU:HD11	2:C:920:GLN:HG3	1.89	0.54
2:C:1013:TYR:HB3	9:C:2050:HOH:O	2.06	0.54
2:C:1081:VAL:HB	2:C:1086:ARG:NE	2.22	0.54
3:D:19:ARG:HA	9:D:2218:HOH:O	2.07	0.54
3:D:146:PRO:HG2	9:D:9704:HOH:O	2.07	0.54
3:D:197:SER:CB	3:D:203:ALA:HB3	2.30	0.54
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.37	0.54
3:D:1014:ASN:O	3:D:1016:PRO:HD3	2.07	0.54
4:E:56:ASP:HB2	9:E:9649:HOH:O	2.07	0.54
5:F:181:GLU:O	5:F:184:ARG:HB3	2.08	0.54
5:F:262:VAL:HG23	9:F:9614:HOH:O	2.07	0.54
2:M:719:PRO:HD3	9:M:2003:HOH:O	2.07	0.54
2:M:1057:SER:OG	3:N:621:LYS:HE2	2.07	0.54
3:N:704:ARG:HD2	3:N:705:ALA:H	1.71	0.54
5:P:166:LEU:O	5:P:171:LYS:HB2	2.07	0.54
1:A:7:LYS:NZ	1:A:186:LEU:HD23	2.22	0.54
1:A:48:ILE:HG22	1:A:173:PRO:HD2	1.88	0.54
1:A:62:LEU:HD12	1:A:62:LEU:H	1.71	0.54
1:B:137:ARG:NH1	1:B:139:ASN:HB3	2.21	0.54
2:C:165:LEU:HD13	9:C:2088:HOH:O	2.06	0.54
3:D:41:ARG:HG3	9:D:9655:HOH:O	2.05	0.54
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.90	0.54
3:D:816:HIS:HA	9:D:3219:HOH:O	2.07	0.54
3:D:1169:ASP:HB2	9:D:2059:HOH:O	2.07	0.54
3:D:1211:MET:HE1	4:E:16:LYS:NZ	2.23	0.54
3:D:1449:GLU:HB2	9:D:9628:HOH:O	2.07	0.54
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.88	0.54
2:M:159:ILE:HB	9:M:9671:HOH:O	2.06	0.54
1:A:186:LEU:HB2	9:A:9592:HOH:O	2.07	0.54
2:C:42:VAL:HA	2:C:46:ALA:HB2	1.89	0.54
2:C:328:LEU:CD1	2:C:433:THR:HB	2.26	0.54
2:C:455:LEU:HD13	2:C:456:ALA:O	2.07	0.54
2:C:598:GLU:O	2:C:651:LYS:HG3	2.07	0.54
2:C:640:ARG:HD3	2:C:642:ARG:NH2	2.22	0.54
2:C:666:LEU:HD12	2:C:667:ALA:H	1.73	0.54
2:C:1015:LEU:HB3	2:C:1016:ILE:HD13	1.88	0.54
1:K:18:ARG:NH2	1:K:88:ARG:HH21	2.05	0.54
9:K:6214:HOH:O	1:L:229:GLN:HB3	2.06	0.54
2:M:72:ARG:HB3	9:M:9754:HOH:O	2.07	0.54
2:M:159:ILE:HG21	2:M:175:GLU:OE1	2.07	0.54
2:M:286:SER:HB3	2:M:299:LYS:HE2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:649:VAL:HA	2:M:650:ARG:NH2	2.22	0.54
2:M:1089:VAL:O	2:M:1093:GLN:HG2	2.07	0.54
3:N:101:HIS:O	3:N:105:VAL:HG23	2.07	0.54
3:N:400:VAL:HG23	9:N:2141:HOH:O	2.07	0.54
3:N:634:GLY:O	3:N:637:LEU:HB3	2.07	0.54
3:N:638:LYS:HE2	9:N:2726:HOH:O	2.08	0.54
3:N:693:GLU:HA	9:N:9838:HOH:O	2.05	0.54
3:N:814:ALA:HB2	9:N:9382:HOH:O	2.08	0.54
3:N:838:ARG:HD2	3:N:874:GLU:OE2	2.08	0.54
5:P:373:LYS:HD3	5:P:378:GLY:C	2.32	0.54
1:A:41:ARG:HG3	1:A:177:VAL:HB	1.88	0.54
2:C:53:PRO:HA	9:C:9804:HOH:O	2.07	0.54
3:D:608:SER:O	3:D:614:PHE:HB2	2.08	0.54
3:D:1033:GLN:HB3	3:D:1036:ARG:HH21	1.73	0.54
3:D:1209:LEU:CD2	3:D:1216:SER:H	2.21	0.54
5:F:314:PRO:HD3	9:F:9825:HOH:O	2.07	0.54
5:F:364:ARG:HB3	5:F:364:ARG:HH11	1.72	0.54
1:K:189:ARG:HD2	9:K:1183:HOH:O	2.08	0.54
1:L:9:PRO:HD3	9:L:3141:HOH:O	2.07	0.54
3:N:100:ALA:H	3:N:575:GLN:HE22	1.54	0.54
1:B:94:LEU:HD21	1:B:119:ASP:OD1	2.08	0.54
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.90	0.54
3:D:669:ASN:HD21	3:D:671:LYS:HB2	1.72	0.54
3:D:1397:LYS:HG3	9:D:2561:HOH:O	2.08	0.54
4:E:47:LYS:N	4:E:54:LEU:HD22	2.23	0.54
5:F:153:PRO:HB2	9:F:9865:HOH:O	2.07	0.54
1:L:80:LEU:CD1	3:N:842:VAL:HG12	2.35	0.54
1:L:143:ARG:HE	1:L:158:ILE:HG21	1.72	0.54
2:M:2:GLU:HB3	9:M:2027:HOH:O	2.07	0.54
2:M:34:VAL:HG22	9:M:9591:HOH:O	2.07	0.54
2:M:495:THR:HA	9:M:9319:HOH:O	2.08	0.54
3:N:138:LYS:H	3:N:138:LYS:HD2	1.73	0.54
3:N:246:PRO:HA	9:N:2931:HOH:O	2.06	0.54
3:N:690:ALA:O	3:N:694:VAL:HG23	2.08	0.54
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.90	0.54
3:N:1408:ILE:HB	9:N:9535:HOH:O	2.07	0.54
4:O:60:ALA:O	4:O:63:TRP:HB2	2.08	0.54
1:A:88:ARG:HB2	1:A:204:SER:HA	1.90	0.54
1:B:41:ARG:NH1	1:B:177:VAL:HB	2.22	0.54
1:B:107:LYS:HB3	9:B:9616:HOH:O	2.08	0.54
2:C:105:THR:HG23	9:C:9938:HOH:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1054:THR:HG23	2:C:1059:ASP:HB2	1.90	0.54
3:D:441:ARG:HB3	3:D:443:VAL:CG2	2.37	0.54
3:D:637:LEU:HD11	3:D:642:CYS:N	2.22	0.54
3:D:761:ILE:HD11	4:E:23:VAL:HG11	1.89	0.54
4:E:69:LEU:HD11	9:E:9579:HOH:O	2.07	0.54
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.89	0.54
2:M:208:ALA:HB2	9:M:9323:HOH:O	2.08	0.54
2:M:266:ARG:HB3	9:M:9251:HOH:O	2.06	0.54
2:M:279:GLU:HG3	2:M:280:LYS:HG3	1.89	0.54
2:M:383:ARG:HG3	9:M:9744:HOH:O	2.07	0.54
2:M:469:THR:N	9:M:9590:HOH:O	2.40	0.54
9:M:9528:HOH:O	5:P:280:GLN:HA	2.07	0.54
3:N:149:LYS:HD3	3:N:149:LYS:N	2.23	0.54
4:O:14:ASP:HA	9:O:5443:HOH:O	2.08	0.54
1:B:74:ASP:HA	9:B:9649:HOH:O	2.07	0.54
1:B:86:VAL:HG13	1:B:123:MET:HB2	1.89	0.54
2:C:45:GLN:HG2	9:C:9991:HOH:O	2.07	0.54
2:C:405:ARG:HH12	2:C:409:ARG:NH2	2.00	0.54
2:C:798:GLY:H	2:C:827:VAL:CG1	2.20	0.54
2:C:1014:SER:HB2	5:F:331:ASP:HA	1.90	0.54
3:D:404:GLU:HB3	3:D:414:ARG:NE	2.23	0.54
3:D:474:GLU:HG3	3:D:500:ARG:HE	1.72	0.54
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.32	0.54
3:D:1119:SER:HA	3:D:1186:VAL:O	2.08	0.54
3:D:1258:ARG:HG2	3:D:1262:LEU:HD13	1.89	0.54
3:D:1312:LEU:HA	9:D:3003:HOH:O	2.08	0.54
5:F:89:GLY:HA3	9:F:9884:HOH:O	2.08	0.54
1:L:2:LEU:HD13	1:L:3:ASP:OD1	2.08	0.54
2:M:346:VAL:O	2:M:350:ARG:HG3	2.08	0.54
2:M:425:PHE:HB3	9:N:9251:HOH:O	2.07	0.54
2:M:1093:GLN:NE2	2:M:1099:VAL:H	2.06	0.54
1:A:119:ASP:HA	9:A:9646:HOH:O	2.07	0.54
1:B:73:GLU:HG3	1:B:130:ALA:HA	1.90	0.54
2:C:216:GLU:H	2:C:216:GLU:CD	2.16	0.54
2:C:305:PRO:O	2:C:308:ARG:HB3	2.07	0.54
2:C:714:ASP:OD2	2:C:719:PRO:HG3	2.08	0.54
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.89	0.54
2:C:878:SER:HA	3:D:1034:GLN:OE1	2.07	0.54
3:D:62:LYS:HG3	9:D:2359:HOH:O	2.07	0.54
3:D:141:ILE:HG12	3:D:449:SER:HA	1.89	0.54
3:D:1462:LEU:HD21	3:D:1474:ALA:HB2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:140:ARG:HA	9:F:9613:HOH:O	2.08	0.54
5:F:158:GLU:O	5:F:161:GLN:HB2	2.07	0.54
2:M:320:HIS:HA	9:M:9779:HOH:O	2.08	0.54
2:M:448:ASN:HB2	2:M:452:ILE:HD11	1.89	0.54
2:M:637:LEU:HD23	2:M:659:PRO:HG2	1.89	0.54
3:N:523:ASP:N	9:N:9625:HOH:O	2.41	0.54
3:N:644:LEU:HD12	3:N:645:PRO:N	2.23	0.54
5:P:270:LYS:HD2	9:P:8061:HOH:O	2.08	0.54
1:A:86:VAL:HG13	1:A:123:MET:HB2	1.90	0.53
2:C:184:MET:HE2	2:C:184:MET:C	2.33	0.53
2:C:356:ARG:HA	9:C:2205:HOH:O	2.07	0.53
2:C:535:SER:OG	2:C:537:LYS:HE2	2.08	0.53
2:C:944:LEU:O	2:C:947:ALA:HB3	2.08	0.53
2:C:1019:GLN:HE21	3:D:621:LYS:HG3	1.73	0.53
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.89	0.53
3:D:546:ARG:O	3:D:550:ARG:HG2	2.08	0.53
3:D:935:LYS:HB3	3:D:935:LYS:NZ	2.23	0.53
3:D:1136:LYS:HE3	3:D:1139:ASP:OD2	2.08	0.53
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.38	0.53
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.90	0.53
1:L:86:VAL:HG13	1:L:123:MET:HB2	1.89	0.53
2:M:50:GLU:HB3	9:M:9948:HOH:O	2.07	0.53
2:M:266:ARG:HB2	2:M:288:ARG:NH1	2.23	0.53
2:M:916:GLU:HA	9:M:9478:HOH:O	2.07	0.53
9:M:9380:HOH:O	5:P:279:GLN:HG2	2.09	0.53
3:N:676:MET:HE1	3:N:684:LYS:H	1.72	0.53
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.38	0.53
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.90	0.53
5:P:222:ARG:HD3	9:P:1708:HOH:O	2.08	0.53
5:P:291:ILE:HD13	5:P:304:VAL:CG1	2.38	0.53
9:A:9633:HOH:O	2:C:607:ASP:HA	2.08	0.53
2:C:31:GLN:HG3	2:C:40:GLU:O	2.08	0.53
2:C:84:ARG:HH12	2:C:128:ILE:HD13	1.73	0.53
2:C:408:ARG:NH1	2:C:542:VAL:HG13	2.23	0.53
3:D:720:LEU:H	3:D:720:LEU:HD12	1.71	0.53
3:D:1009:LYS:HE3	9:D:2148:HOH:O	2.09	0.53
5:F:277:GLN:O	5:F:280:GLN:HB3	2.07	0.53
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.90	0.53
2:M:148:PHE:HB3	2:M:313:LEU:CD2	2.36	0.53
2:M:173:ASP:HB2	2:M:185:LYS:HE3	1.89	0.53
2:M:244:PRO:HB3	9:M:9820:HOH:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:253:ALA:O	2:M:256:TYR:HB2	2.08	0.53
2:M:368:THR:HB	2:M:369:PRO:HD3	1.90	0.53
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.90	0.53
3:N:96:ALA:HB3	3:N:554:LEU:HG	1.90	0.53
3:N:99:ALA:HB1	3:N:575:GLN:NE2	2.23	0.53
3:N:389:GLU:HG3	9:N:2712:HOH:O	2.08	0.53
3:N:1063:GLU:HG3	3:N:1064:GLY:H	1.72	0.53
3:N:1066:THR:HG23	3:N:1069:GLU:OE1	2.08	0.53
2:C:239:PHE:CE1	2:C:246:ASP:HB3	2.44	0.53
2:C:571:LEU:HD13	2:C:670:GLN:OE1	2.08	0.53
3:D:71:LYS:HB2	9:D:9610:HOH:O	2.08	0.53
3:D:1109:GLU:HA	9:D:2056:HOH:O	2.09	0.53
5:F:135:ILE:HD11	5:F:178:ARG:HB3	1.89	0.53
5:F:292:ALA:HA	5:F:299:TRP:HB3	1.90	0.53
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.29	0.53
3:N:147:VAL:HB	9:N:2267:HOH:O	2.07	0.53
3:N:397:LYS:HG2	9:N:2124:HOH:O	2.07	0.53
3:N:486:ARG:O	3:N:489:ARG:HG2	2.08	0.53
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.07	0.53
3:N:1301:LYS:HA	9:N:9307:HOH:O	2.08	0.53
9:N:9959:HOH:O	5:P:375:LEU:HD13	2.08	0.53
5:P:81:VAL:HG13	9:P:4331:HOH:O	2.07	0.53
1:A:44:LEU:HD22	9:A:9579:HOH:O	2.08	0.53
2:C:36:PRO:HB3	9:C:9597:HOH:O	2.08	0.53
2:C:878:SER:HB2	3:D:1029:ARG:HD2	1.89	0.53
2:C:897:LEU:HD22	9:C:9860:HOH:O	2.08	0.53
3:D:421:LEU:HG	9:D:2049:HOH:O	2.08	0.53
3:D:470:LEU:HD11	3:D:509:PRO:HG3	1.90	0.53
3:D:1253:THR:HG23	3:D:1258:ARG:HH11	1.72	0.53
3:D:1336:LEU:HD13	3:D:1376:MET:HE1	1.90	0.53
5:F:160:ASP:O	5:F:163:LEU:HB2	2.09	0.53
5:F:403:LYS:HD3	9:F:9572:HOH:O	2.08	0.53
2:M:22:GLN:O	2:M:121:MET:HE1	2.09	0.53
2:M:571:LEU:HD21	2:M:700:TYR:CD2	2.44	0.53
2:M:722:ILE:HG23	2:M:722:ILE:O	2.08	0.53
3:N:221:ALA:HB2	9:N:2049:HOH:O	2.08	0.53
3:N:464:LEU:HA	9:N:2397:HOH:O	2.09	0.53
3:N:637:LEU:HD12	3:N:641:GLN:HG3	1.89	0.53
3:N:704:ARG:HH12	3:N:743:ASP:CG	2.16	0.53
3:N:1459:LEU:HD12	3:N:1470:ARG:HH11	1.74	0.53
2:C:141:HIS:HB2	2:C:418:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:165:LEU:HA	2:C:166:PRO:O	2.08	0.53
2:C:267:TYR:CE1	2:C:338:GLU:HG3	2.43	0.53
2:C:432:ARG:HG3	2:C:432:ARG:NH1	2.23	0.53
2:C:721:ARG:HE	2:C:783:ARG:NH2	2.06	0.53
2:C:861:LEU:HG	2:C:862:PRO:HD2	1.89	0.53
3:D:7:LYS:HE2	9:D:2085:HOH:O	2.09	0.53
3:D:243:ALA:HB2	9:D:2875:HOH:O	2.09	0.53
3:D:584:ASN:H	3:D:602:SER:CB	2.21	0.53
3:D:961:LYS:HD2	9:D:9896:HOH:O	2.08	0.53
3:D:1364:HIS:ND1	3:D:1366:LYS:HG3	2.23	0.53
1:K:9:PRO:HB3	1:K:25:LEU:HG	1.91	0.53
1:L:97:VAL:HG23	9:L:7067:HOH:O	2.08	0.53
1:L:184:THR:HG22	1:L:192:LEU:O	2.07	0.53
2:M:12:VAL:HG12	2:M:534:VAL:HG13	1.91	0.53
2:M:594:ALA:HB1	2:M:656:ALA:O	2.09	0.53
3:N:429:SER:HA	9:N:2866:HOH:O	2.09	0.53
3:N:819:GLY:O	3:N:822:ALA:HB3	2.08	0.53
3:N:854:ALA:HB2	9:N:9448:HOH:O	2.07	0.53
3:N:1246:VAL:HG22	9:N:2507:HOH:O	2.08	0.53
1:A:213:GLN:O	1:A:217:ILE:HG13	2.08	0.53
2:C:18:LEU:HD23	2:C:542:VAL:HG11	1.90	0.53
2:C:84:ARG:HA	9:C:9908:HOH:O	2.08	0.53
2:C:759:THR:HG21	2:C:783:ARG:NH1	2.23	0.53
2:C:1057:SER:OG	3:D:621:LYS:HG2	2.09	0.53
3:D:412:GLY:O	3:D:421:LEU:HB3	2.09	0.53
3:D:601:ARG:HH22	3:D:613:ARG:NE	2.06	0.53
3:D:1173:LEU:HD22	9:D:9959:HOH:O	2.08	0.53
2:M:141:HIS:HE1	2:M:332:ARG:HD3	1.74	0.53
2:M:379:GLU:O	2:M:383:ARG:HB2	2.08	0.53
2:M:536:PRO:CG	2:M:906:PHE:HB2	2.39	0.53
2:M:1052:MET:SD	2:M:1056:LYS:HD3	2.48	0.53
3:N:1472:ILE:O	3:N:1477:GLY:HA3	2.08	0.53
1:B:206:THR:HB	1:B:209:GLU:OE2	2.09	0.53
2:C:136:ILE:CG2	2:C:336:VAL:HG13	2.39	0.53
2:C:874:LEU:HD11	3:D:784:ASP:HA	1.91	0.53
2:C:929:ARG:HH11	2:C:929:ARG:HG3	1.73	0.53
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.08	0.53
2:C:1102:LEU:HD11	3:D:9:ARG:HG2	1.90	0.53
3:D:138:LYS:HA	9:D:2798:HOH:O	2.09	0.53
3:D:489:ARG:HE	3:D:493:ARG:NH2	1.97	0.53
3:D:984:THR:HG23	3:D:986:ARG:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1264:GLU:HG2	9:D:9600:HOH:O	2.07	0.53
3:D:1384:PRO:HB3	9:D:2732:HOH:O	2.09	0.53
4:E:15:SER:HA	9:E:9559:HOH:O	2.08	0.53
5:F:172:ARG:O	5:F:176:ILE:HG13	2.09	0.53
2:M:280:LYS:HG2	9:M:2041:HOH:O	2.09	0.53
2:M:777:ILE:HG23	5:P:409:LYS:CB	2.31	0.53
2:M:1056:LYS:HE2	9:M:9265:HOH:O	2.09	0.53
3:N:637:LEU:HD11	3:N:642:CYS:N	2.24	0.53
3:N:728:LEU:HD12	3:N:729:HIS:H	1.74	0.53
3:N:907:GLU:OE1	3:N:909:ASN:HB2	2.09	0.53
5:P:76:SER:HB2	9:P:1916:HOH:O	2.08	0.53
1:A:10:VAL:HG12	1:A:12:THR:HG23	1.90	0.53
1:A:27:PRO:HB2	9:A:9811:HOH:O	2.08	0.53
1:B:23:PHE:HE1	1:B:208:LEU:HD13	1.74	0.53
1:B:175:ARG:HB2	1:B:200:TRP:HB3	1.91	0.53
2:C:26:TYR:CE2	2:C:30:LEU:HD21	2.43	0.53
2:C:137:VAL:HG21	2:C:393:GLN:HE22	1.73	0.53
2:C:976:ASP:HA	9:C:9567:HOH:O	2.09	0.53
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.24	0.53
2:C:1065:ALA:HB1	2:C:1077:PRO:HG2	1.90	0.53
3:D:177:ALA:C	3:D:199:LEU:HD13	2.32	0.53
3:D:487:ALA:CB	3:D:488:ARG:HH21	2.22	0.53
3:D:564:GLU:HB3	9:D:9582:HOH:O	2.08	0.53
3:D:865:THR:HG22	3:D:874:GLU:HG2	1.91	0.53
5:F:132:ARG:HH21	5:F:184:ARG:NH1	2.06	0.53
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.90	0.53
5:F:420:ASP:HA	9:F:9593:HOH:O	2.08	0.53
5:F:421:PHE:C	5:F:423:ASP:H	2.16	0.53
1:L:6:LEU:C	1:L:8:ALA:H	2.17	0.53
3:N:112:ILE:HG22	3:N:512:MET:SD	2.49	0.53
3:N:484:PRO:HB3	9:N:9533:HOH:O	2.09	0.53
3:N:861:GLN:CD	3:N:861:GLN:N	2.67	0.53
3:N:1304:LYS:H	3:N:1304:LYS:HD3	1.74	0.53
3:N:1383:ASP:HB3	3:N:1416:ALA:H	1.74	0.53
4:O:27:ALA:O	4:O:31:LEU:HG	2.09	0.53
4:O:37:ASN:HD22	4:O:89:MET:HE2	1.74	0.53
5:P:234:LYS:HB2	9:P:4664:HOH:O	2.07	0.53
1:B:153:ALA:HA	1:B:156:HIS:NE2	2.24	0.53
1:B:176:ARG:HG3	1:B:200:TRP:CE3	2.44	0.53
1:B:182:GLU:O	1:B:194:LYS:HB3	2.09	0.53
2:C:64:LEU:HD11	9:C:2120:HOH:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:184:MET:CE	2:C:186:VAL:HG13	2.32	0.53
2:C:193:LEU:HD13	2:C:193:LEU:O	2.09	0.53
2:C:423:ALA:HA	9:C:2245:HOH:O	2.09	0.53
2:C:455:LEU:HD13	2:C:459:ALA:HB3	1.91	0.53
2:C:485:TYR:HD2	9:C:9588:HOH:O	1.90	0.53
2:C:876:VAL:H	2:C:877:PRO:HD2	1.74	0.53
2:C:1092:LEU:CD1	2:C:1099:VAL:HG21	2.39	0.53
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.22	0.53
3:D:432:TYR:HA	3:D:448:GLU:O	2.08	0.53
3:D:462:GLN:HG3	3:D:513:ILE:HD13	1.91	0.53
3:D:994:GLN:O	3:D:998:GLU:HG3	2.08	0.53
3:D:1003:VAL:O	3:D:1007:VAL:HG13	2.08	0.53
3:D:1231:GLU:HG3	3:D:1232:PRO:N	2.23	0.53
5:F:157:GLU:HA	9:F:2058:HOH:O	2.08	0.53
5:F:270:LYS:HB2	5:F:270:LYS:HZ2	1.74	0.53
1:K:96:THR:OG1	1:K:143:ARG:HD2	2.09	0.53
1:L:87:VAL:HG23	9:L:1617:HOH:O	2.09	0.53
1:L:182:GLU:HA	9:N:9281:HOH:O	2.09	0.53
2:M:139:GLN:O	2:M:333:ILE:HA	2.08	0.53
2:M:142:ARG:HD3	9:M:2230:HOH:O	2.09	0.53
2:M:150:PRO:HB2	9:M:9278:HOH:O	2.07	0.53
2:M:473:ARG:HB3	9:M:9208:HOH:O	2.09	0.53
2:M:551:GLU:CD	2:M:551:GLU:H	2.16	0.53
2:M:713:ARG:O	2:M:720:GLU:HG3	2.09	0.53
2:M:904:PRO:HG2	9:M:9888:HOH:O	2.08	0.53
3:N:118:LEU:O	3:N:120:ALA:N	2.41	0.53
3:N:608:SER:O	3:N:614:PHE:HB2	2.09	0.53
3:N:814:ALA:O	3:N:818:ARG:HG3	2.09	0.53
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.09	0.53
4:O:41:GLU:HG2	9:O:1576:HOH:O	2.09	0.53
5:P:266:GLU:HG3	9:P:8061:HOH:O	2.08	0.53
2:C:41:ASN:HD22	2:C:41:ASN:H	1.56	0.53
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.91	0.53
2:C:751:PRO:HA	2:C:792:VAL:HB	1.89	0.53
2:C:897:LEU:HB3	2:C:899:GLN:HG2	1.91	0.53
3:D:524:LEU:C	3:D:526:PRO:HD3	2.34	0.53
3:D:804:LEU:HD12	3:D:831:GLY:HA3	1.90	0.53
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.38	0.53
3:D:1197:ARG:HD2	3:D:1396:GLU:CB	2.36	0.53
3:D:1337:GLU:HA	9:D:9894:HOH:O	2.09	0.53
3:D:1383:ASP:HB3	3:D:1416:ALA:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1495:ILE:HD12	3:D:1498:ALA:HB3	1.90	0.53
5:F:119:ILE:HD13	5:F:170:HIS:CG	2.44	0.53
1:L:136:GLY:HA3	9:L:1193:HOH:O	2.07	0.53
2:M:225:SER:HB2	2:M:229:MET:HE2	1.91	0.53
2:M:290:LEU:H	2:M:290:LEU:HD13	1.73	0.53
2:M:663:ASN:HB2	9:M:9366:HOH:O	2.08	0.53
2:M:695:LEU:HD21	2:M:833:LEU:HB3	1.91	0.53
2:M:841:ASN:HD22	2:M:841:ASN:N	2.06	0.53
3:N:89:ARG:O	3:N:521:PRO:HG3	2.09	0.53
3:N:187:LYS:HD3	9:N:9419:HOH:O	2.09	0.53
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.44	0.53
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.09	0.53
3:N:1320:GLU:H	3:N:1323:GLN:NE2	2.06	0.53
5:P:393:THR:CG2	5:P:394:ARG:H	2.22	0.53
1:B:2:LEU:HD12	1:B:3:ASP:N	2.24	0.52
1:B:5:LYS:HG3	9:B:9765:HOH:O	2.08	0.52
2:C:100:LEU:HD23	2:C:368:THR:HA	1.90	0.52
2:C:114:PHE:HE2	5:F:283:GLY:HA3	1.73	0.52
2:C:205:GLU:HB3	9:C:2115:HOH:O	2.09	0.52
2:C:1039:ALA:HB3	3:D:713:ILE:HD12	1.90	0.52
3:D:98:PRO:O	3:D:458:ALA:HB3	2.08	0.52
3:D:591:VAL:HG12	3:D:592:THR:O	2.09	0.52
3:D:1446:VAL:HG22	9:D:9970:HOH:O	2.09	0.52
5:F:315:VAL:HG12	5:F:316:SER:N	2.24	0.52
5:F:376:ILE:HD13	9:F:2134:HOH:O	2.07	0.52
1:K:227:ASN:HD22	1:K:227:ASN:H	1.56	0.52
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.91	0.52
2:M:186:VAL:HG23	2:M:187:ASN:H	1.73	0.52
2:M:443:THR:HB	2:M:453:THR:HG22	1.91	0.52
2:M:637:LEU:HB2	9:M:9559:HOH:O	2.09	0.52
2:M:722:ILE:HG22	9:M:9639:HOH:O	2.09	0.52
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.09	0.52
1:A:73:GLU:HG3	1:A:130:ALA:HA	1.90	0.52
1:B:26:GLU:HB3	1:B:194:LYS:HG3	1.91	0.52
1:B:90:LEU:HB3	9:B:9609:HOH:O	2.09	0.52
2:C:805:ARG:HA	9:C:9907:HOH:O	2.10	0.52
3:D:634:GLY:O	3:D:637:LEU:HB3	2.08	0.52
3:D:819:GLY:O	3:D:822:ALA:HB3	2.09	0.52
3:D:1173:LEU:HB3	9:D:9959:HOH:O	2.08	0.52
3:D:1232:PRO:HB2	3:D:1356:TYR:HE2	1.74	0.52
5:F:169:GLU:CD	5:F:169:GLU:H	2.15	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:165:ILE:HD12	1:L:165:ILE:O	2.09	0.52
1:L:212:ASN:O	1:L:215:VAL:HG22	2.09	0.52
2:M:267:TYR:CE1	2:M:338:GLU:HG3	2.44	0.52
2:M:289:THR:O	2:M:291:ALA:N	2.42	0.52
2:M:853:LEU:HB3	2:M:858:MET:HE3	1.91	0.52
2:M:949:LYS:HZ2	3:N:796:ARG:HH22	1.57	0.52
2:M:1009:SER:HB2	3:N:651:GLU:O	2.09	0.52
5:P:367:MET:HA	5:P:370:LYS:HD3	1.92	0.52
2:C:243:ARG:O	2:C:243:ARG:HD2	2.09	0.52
2:C:752:GLY:N	2:C:792:VAL:HB	2.25	0.52
2:C:1001:VAL:HG13	9:C:9609:HOH:O	2.10	0.52
3:D:439:LEU:HB3	9:D:2486:HOH:O	2.10	0.52
3:D:1496:GLU:O	3:D:1500:LYS:HG3	2.09	0.52
5:F:112:ALA:O	5:F:116:LEU:HG	2.10	0.52
5:F:264:MET:O	5:F:268:ILE:HG13	2.09	0.52
5:F:323:ASP:O	5:F:325:LYS:HG3	2.10	0.52
5:F:357:ALA:O	5:F:361:LEU:HD23	2.09	0.52
1:K:36:LEU:O	1:K:39:PRO:HD2	2.09	0.52
1:K:154:GLU:HA	9:M:9690:HOH:O	2.09	0.52
2:M:165:LEU:HA	2:M:166:PRO:O	2.10	0.52
2:M:185:LYS:HD2	9:M:9853:HOH:O	2.08	0.52
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.91	0.52
2:M:402:SER:HA	2:M:566:THR:HG23	1.92	0.52
2:M:607:ASP:C	2:M:609:ASN:H	2.17	0.52
2:M:774:LEU:O	2:M:777:ILE:HB	2.09	0.52
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.39	0.52
3:N:537:THR:O	5:P:317:LEU:HB2	2.08	0.52
3:N:792:ILE:HG23	3:N:793:THR:HG23	1.89	0.52
3:N:1014:ASN:O	3:N:1016:PRO:HD3	2.09	0.52
3:N:1075:HIS:HA	9:N:9472:HOH:O	2.09	0.52
3:N:1490:LYS:HE3	9:O:1697:HOH:O	2.10	0.52
4:O:48:MET:CB	4:O:54:LEU:HB2	2.39	0.52
4:O:50:THR:HG22	9:O:1369:HOH:O	2.10	0.52
4:O:57:ASP:H	4:O:58:PRO:HD3	1.75	0.52
1:B:45:LEU:HD21	1:B:177:VAL:HG23	1.90	0.52
2:C:294:GLU:HB2	9:C:2038:HOH:O	2.09	0.52
2:C:403:SER:C	2:C:407:LYS:HD3	2.34	0.52
2:C:965:GLU:HA	9:C:2351:HOH:O	2.09	0.52
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.91	0.52
3:D:228:ALA:HA	9:D:9867:HOH:O	2.10	0.52
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:690:ALA:O	3:D:694:VAL:HG23	2.10	0.52
3:D:972:LEU:HG	3:D:976:GLN:NE2	2.19	0.52
3:D:1165:TYR:OH	3:D:1203:LYS:HD3	2.09	0.52
4:E:83:ASP:HA	9:E:9560:HOH:O	2.09	0.52
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.90	0.52
1:L:143:ARG:NE	1:L:158:ILE:HG21	2.24	0.52
2:M:17:PRO:HD3	9:M:9857:HOH:O	2.08	0.52
2:M:237:ARG:HG3	9:M:9694:HOH:O	2.08	0.52
2:M:987:ILE:CG2	3:N:948:THR:HG21	2.39	0.52
2:M:1014:SER:HA	5:P:334:PRO:HA	1.92	0.52
3:N:431:VAL:HG21	9:N:9483:HOH:O	2.08	0.52
3:N:448:GLU:CD	3:N:448:GLU:N	2.67	0.52
3:N:704:ARG:CD	3:N:705:ALA:H	2.21	0.52
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.91	0.52
3:N:899:LEU:HD13	3:N:900:ILE:HG23	1.90	0.52
3:N:1378:TYR:HD1	3:N:1422:MET:SD	2.32	0.52
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.08	0.52
3:N:1440:PHE:HB3	3:N:1442:ASN:ND2	2.24	0.52
5:P:367:MET:HB3	5:P:370:LYS:HZ1	1.74	0.52
5:P:392:VAL:HG13	9:P:6344:HOH:O	2.09	0.52
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.90	0.52
2:C:136:ILE:HD13	2:C:392:SER:HB2	1.92	0.52
2:C:266:ARG:HB2	2:C:288:ARG:HE	1.75	0.52
2:C:365:ASP:C	2:C:367:LEU:HD23	2.34	0.52
2:C:435:TYR:O	2:C:437:ARG:HG3	2.09	0.52
2:C:682:TYR:HA	3:D:635:PRO:HG2	1.91	0.52
3:D:8:VAL:HG12	3:D:1434:TRP:HH2	1.74	0.52
3:D:169:TYR:HA	3:D:392:SER:HA	1.91	0.52
3:D:817:GLU:O	3:D:821:VAL:HG23	2.09	0.52
3:D:970:LYS:HD2	9:D:2768:HOH:O	2.09	0.52
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.75	0.52
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.90	0.52
5:F:96:LEU:HB2	9:F:9854:HOH:O	2.09	0.52
1:L:184:THR:O	1:L:192:LEU:HB2	2.09	0.52
2:M:313:LEU:C	2:M:315:ALA:H	2.17	0.52
2:M:599:GLU:HG2	9:M:9329:HOH:O	2.09	0.52
2:M:651:LYS:HB3	9:M:9725:HOH:O	2.09	0.52
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	2.08	0.52
9:M:9280:HOH:O	3:N:952:ASP:HB3	2.09	0.52
3:N:518:PRO:HB3	9:N:9475:HOH:O	2.09	0.52
3:N:828:LYS:HE3	9:N:9267:HOH:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1277:ILE:HD11	9:N:2604:HOH:O	2.08	0.52
3:N:1284:GLU:HB3	9:N:2710:HOH:O	2.08	0.52
5:P:123:ASP:HB3	5:P:125:ASP:OD1	2.09	0.52
5:P:295:MET:HB3	5:P:299:TRP:CD1	2.44	0.52
2:C:267:TYR:HA	9:C:9947:HOH:O	2.08	0.52
2:C:594:ALA:HB1	2:C:656:ALA:O	2.09	0.52
2:C:1007:ALA:HB2	3:D:648:MET:HG3	1.90	0.52
3:D:498:VAL:HG13	9:D:2123:HOH:O	2.10	0.52
3:D:643:GLY:HA3	3:D:727:GLN:HG3	1.92	0.52
3:D:1410:GLU:HA	9:D:9597:HOH:O	2.08	0.52
5:F:376:ILE:HD12	9:F:2054:HOH:O	2.10	0.52
5:F:398:ARG:HG2	5:F:402:ASN:ND2	2.25	0.52
1:K:42:ARG:NH1	9:K:1228:HOH:O	2.41	0.52
2:M:200:LEU:HD13	2:M:300:ASP:OD2	2.10	0.52
2:M:725:ASP:HB3	2:M:783:ARG:NH1	2.25	0.52
3:N:583:ASP:HA	3:N:602:SER:OG	2.09	0.52
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	2.24	0.52
4:O:40:LEU:HD12	4:O:40:LEU:O	2.09	0.52
5:P:364:ARG:HB3	5:P:365:GLU:OE1	2.10	0.52
1:A:125:PRO:HB2	9:A:9597:HOH:O	2.10	0.52
1:B:20:TYR:HE2	1:B:198:ARG:HB3	1.74	0.52
1:B:184:THR:O	1:B:192:LEU:HB2	2.10	0.52
2:C:597:ALA:HA	9:C:9658:HOH:O	2.10	0.52
2:C:728:HIS:C	2:C:729:LEU:HD22	2.35	0.52
2:C:1015:LEU:HD12	5:F:333:ILE:HG21	1.92	0.52
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.74	0.52
3:D:480:GLU:O	3:D:484:PRO:HD2	2.10	0.52
3:D:1478:SER:HA	9:D:9950:HOH:O	2.10	0.52
9:D:9641:HOH:O	5:F:375:LEU:HD11	2.08	0.52
1:L:125:PRO:HD2	9:L:2226:HOH:O	2.09	0.52
2:M:383:ARG:HG2	9:M:9403:HOH:O	2.09	0.52
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.45	0.52
2:M:1054:THR:HG23	2:M:1059:ASP:CB	2.39	0.52
3:N:136:ASP:CG	3:N:137:PRO:HD3	2.35	0.52
3:N:493:ARG:O	3:N:497:GLU:HG3	2.10	0.52
3:N:785:ILE:HG12	3:N:935:LYS:HA	1.92	0.52
3:N:1465:ASN:HD21	3:N:1470:ARG:CZ	2.23	0.52
8:N:9101:G4P:H4'	9:N:9248:HOH:O	2.10	0.52
5:P:203:THR:HG22	9:P:4204:HOH:O	2.09	0.52
1:A:14:ARG:HG2	9:A:9563:HOH:O	2.09	0.52
1:A:50:GLY:CA	1:A:173:PRO:HG3	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:176:ARG:HD2	9:A:9580:HOH:O	2.10	0.52
2:C:216:GLU:HG2	2:C:217:LEU:HD23	1.91	0.52
2:C:534:VAL:N	2:C:538:GLN:HE22	2.08	0.52
3:D:152:LEU:HD23	3:D:152:LEU:N	2.25	0.52
3:D:191:LEU:CB	3:D:195:VAL:HG21	2.37	0.52
3:D:431:VAL:HG11	9:D:9858:HOH:O	2.10	0.52
3:D:507:ASN:HA	9:D:9571:HOH:O	2.08	0.52
5:F:259:ARG:HG2	5:F:259:ARG:HH11	1.74	0.52
2:M:129:ILE:HG22	2:M:130:ASN:H	1.73	0.52
2:M:727:PRO:HG3	2:M:783:ARG:NH1	2.25	0.52
2:M:771:GLU:HB2	9:M:9677:HOH:O	2.09	0.52
2:M:949:LYS:NZ	3:N:796:ARG:HH22	2.08	0.52
3:N:119:SER:HB2	3:N:123:LEU:CB	2.35	0.52
3:N:436:GLU:HB2	3:N:445:ARG:HB2	1.91	0.52
3:N:657:LEU:HD13	3:N:691:LEU:HA	1.91	0.52
3:N:875:THR:HG21	3:N:902:LEU:HD12	1.92	0.52
5:P:395:GLU:O	5:P:399:GLN:HB2	2.09	0.52
1:A:153:ALA:HB3	9:A:9823:HOH:O	2.09	0.52
2:C:224:GLU:OE1	2:C:226:VAL:HB	2.09	0.52
2:C:242:LEU:HA	9:C:9763:HOH:O	2.08	0.52
2:C:620:LEU:HA	9:C:9918:HOH:O	2.08	0.52
3:D:1104:GLU:OE2	3:D:1432:LYS:HE2	2.10	0.52
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.18	0.52
3:D:1132:LEU:HB2	9:D:2139:HOH:O	2.10	0.52
4:E:51:LEU:C	4:E:53:GLY:H	2.16	0.52
5:F:135:ILE:CD1	5:F:178:ARG:HD2	2.39	0.52
5:F:270:LYS:HE2	9:F:2083:HOH:O	2.09	0.52
1:L:12:THR:HB	9:L:8156:HOH:O	2.08	0.52
1:L:42:ARG:HG2	1:L:42:ARG:HH11	1.74	0.52
2:M:690:ILE:HG12	2:M:849:VAL:HG13	1.91	0.52
9:M:9265:HOH:O	3:N:751:LEU:HG	2.10	0.52
3:N:141:ILE:HB	9:N:9513:HOH:O	2.09	0.52
3:N:168:THR:HG1	3:N:393:ILE:HB	1.75	0.52
3:N:215:TYR:O	3:N:389:GLU:HB3	2.10	0.52
3:N:909:ASN:HA	3:N:912:LYS:HZ2	1.74	0.52
3:N:1403:LEU:HD23	9:N:9392:HOH:O	2.10	0.52
5:P:270:LYS:HD3	9:P:5561:HOH:O	2.09	0.52
1:A:51:THR:HG23	9:A:9681:HOH:O	2.08	0.52
1:A:61:VAL:HA	9:A:9599:HOH:O	2.08	0.52
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.35	0.52
2:C:420:ARG:HD3	9:C:9964:HOH:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:606:VAL:HG21	2:C:645:VAL:HG22	1.91	0.52
2:C:791:ARG:HB2	9:C:2241:HOH:O	2.09	0.52
2:C:866:PRO:HD2	9:C:2231:HOH:O	2.09	0.52
3:D:804:LEU:HD12	3:D:804:LEU:O	2.10	0.52
5:F:185:GLN:HA	5:F:188:ILE:HD12	1.92	0.52
1:K:6:LEU:C	1:K:8:ALA:H	2.17	0.52
1:L:194:LYS:HG2	9:L:1718:HOH:O	2.10	0.52
2:M:55:GLU:HG3	9:M:2409:HOH:O	2.09	0.52
2:M:206:THR:O	2:M:210:GLU:HB2	2.09	0.52
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.92	0.52
2:M:604:ALA:HB3	2:M:612:VAL:O	2.10	0.52
2:M:786:LYS:HA	9:M:9432:HOH:O	2.09	0.52
9:M:9336:HOH:O	5:P:342:VAL:HA	2.09	0.52
3:N:133:ILE:CG1	3:N:456:MET:HE3	2.39	0.52
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.92	0.52
3:N:414:ARG:HG2	9:N:9972:HOH:O	2.10	0.52
3:N:459:GLU:O	3:N:463:GLN:HG2	2.09	0.52
3:N:1258:ARG:NH2	3:N:1262:LEU:HD11	2.25	0.52
4:O:33:HIS:CG	4:O:89:MET:HG2	2.45	0.52
5:P:214:GLN:O	5:P:217:ASN:HB2	2.10	0.52
1:A:177:VAL:O	2:C:864:GLY:HA2	2.09	0.51
1:B:160:ASP:HB2	9:B:9744:HOH:O	2.10	0.51
2:C:166:PRO:HD2	9:C:9681:HOH:O	2.09	0.51
2:C:250:ARG:HG2	9:C:9691:HOH:O	2.10	0.51
2:C:503:LEU:HD23	9:C:2771:HOH:O	2.09	0.51
3:D:422:ALA:H	3:D:427:VAL:HG11	1.75	0.51
3:D:623:VAL:HG12	3:D:625:TYR:H	1.75	0.51
3:D:1127:GLU:HB2	9:D:9997:HOH:O	2.09	0.51
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.91	0.51
3:D:1404:ASN:CG	3:D:1408:ILE:HD12	2.35	0.51
1:K:189:ARG:HD3	9:K:2051:HOH:O	2.10	0.51
1:L:175:ARG:HB2	1:L:200:TRP:HB3	1.91	0.51
2:M:257:VAL:C	2:M:259:GLY:H	2.18	0.51
2:M:284:ARG:HD3	9:M:2023:HOH:O	2.10	0.51
2:M:403:SER:C	2:M:407:LYS:HE2	2.35	0.51
2:M:755:LEU:HD11	2:M:792:VAL:HA	1.92	0.51
3:N:65:ARG:CG	5:P:375:LEU:HD12	2.40	0.51
3:N:692:GLU:CG	3:N:720:LEU:HD12	2.40	0.51
3:N:971:LEU:O	3:N:975:GLU:HG2	2.09	0.51
3:N:1120:VAL:HB	3:N:1144:LEU:HD21	1.92	0.51
5:P:158:GLU:HA	5:P:161:GLN:NE2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:340:SER:O	5:P:342:VAL:N	2.43	0.51
1:B:101:LEU:HA	9:B:9586:HOH:O	2.09	0.51
1:B:126:ASP:HA	9:B:9726:HOH:O	2.09	0.51
2:C:99:GLN:HA	9:C:2465:HOH:O	2.08	0.51
2:C:166:PRO:HG2	9:C:9694:HOH:O	2.09	0.51
2:C:773:LEU:HD23	2:C:774:LEU:N	2.24	0.51
2:C:1017:THR:HG23	9:C:9664:HOH:O	2.09	0.51
2:C:1096:ALA:O	3:D:13:ALA:HB2	2.10	0.51
3:D:56:TYR:O	3:D:80:VAL:HG11	2.10	0.51
3:D:609:GLY:CA	3:D:613:ARG:HB3	2.40	0.51
4:E:51:LEU:HG	4:E:53:GLY:N	2.26	0.51
5:F:110:MET:O	5:F:114:LYS:HG3	2.10	0.51
1:K:29:GLU:HB2	9:K:2006:HOH:O	2.10	0.51
2:M:735:ARG:HD2	9:M:2232:HOH:O	2.10	0.51
2:M:756:VAL:O	2:M:789:SER:HB3	2.09	0.51
3:N:98:PRO:CG	3:N:462:GLN:HE22	2.17	0.51
3:N:197:SER:HB2	3:N:205:TYR:HE1	1.72	0.51
3:N:475:LYS:O	3:N:478:LEU:HB2	2.10	0.51
3:N:732:VAL:HG11	3:N:765:SER:OG	2.10	0.51
3:N:853:VAL:HG13	3:N:858:VAL:O	2.09	0.51
3:N:1038:LEU:HA	3:N:1061:PHE:HB2	1.92	0.51
3:N:1137:ARG:H	3:N:1137:ARG:CD	2.13	0.51
9:N:9482:HOH:O	5:P:132:ARG:HD3	2.10	0.51
2:C:165:LEU:HD12	2:C:166:PRO:C	2.36	0.51
2:C:252:LYS:HE3	9:C:2326:HOH:O	2.10	0.51
2:C:288:ARG:HG3	2:C:289:THR:N	2.26	0.51
2:C:384:GLU:HA	2:C:388:ARG:HH21	1.75	0.51
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.93	0.51
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.09	0.51
3:D:881:LEU:HD11	3:D:884:ARG:NH2	2.25	0.51
3:D:1336:LEU:HD13	3:D:1344:VAL:HG21	1.92	0.51
5:F:144:ILE:HG23	9:F:9661:HOH:O	2.11	0.51
5:F:393:THR:HA	9:F:9726:HOH:O	2.09	0.51
1:K:155:LYS:HE3	9:K:2316:HOH:O	2.09	0.51
2:M:164:PRO:HB3	9:M:9286:HOH:O	2.09	0.51
2:M:165:LEU:HD12	2:M:166:PRO:C	2.35	0.51
2:M:230:ARG:NH1	9:M:9242:HOH:O	2.43	0.51
2:M:295:ASP:C	2:M:297:GLU:H	2.16	0.51
2:M:312:ALA:HB1	2:M:318:PRO:CG	2.39	0.51
2:M:444:PRO:HD2	2:M:452:ILE:HG13	1.92	0.51
2:M:597:ALA:HB1	9:M:9609:HOH:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:798:GLY:H	2:M:827:VAL:CG1	2.23	0.51
3:N:679:ARG:HG2	3:N:681:ARG:HD3	1.92	0.51
3:N:984:THR:CG2	3:N:987:GLU:H	2.23	0.51
1:B:194:LYS:HG2	9:B:9628:HOH:O	2.11	0.51
2:C:691:SER:HA	2:C:858:MET:HE3	1.92	0.51
2:C:1069:ALA:HA	2:C:1074:GLU:OE1	2.10	0.51
2:C:1101:THR:HG22	3:D:8:VAL:HG22	1.91	0.51
9:C:9793:HOH:O	3:D:90:MET:HB2	2.10	0.51
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.40	0.51
3:D:699:VAL:CG1	3:D:717:GLN:HG2	2.41	0.51
3:D:889:ALA:O	3:D:929:ARG:HD2	2.11	0.51
3:D:984:THR:CG2	3:D:987:GLU:H	2.24	0.51
3:D:1309:ALA:HA	9:D:9716:HOH:O	2.11	0.51
3:D:1411:GLY:O	3:D:1413:THR:HG23	2.10	0.51
3:D:1472:ILE:O	3:D:1477:GLY:HA3	2.11	0.51
4:E:90:GLU:HG3	9:E:9578:HOH:O	2.10	0.51
5:F:140:ARG:HG3	5:F:141:VAL:N	2.26	0.51
1:L:91:ASN:O	1:L:94:LEU:HD12	2.10	0.51
2:M:120:LEU:O	2:M:127:PHE:HD1	1.94	0.51
2:M:140:ILE:HG22	2:M:331:ARG:HB3	1.93	0.51
3:N:550:ARG:HG3	3:N:550:ARG:NH1	2.23	0.51
3:N:602:SER:HB3	9:N:9292:HOH:O	2.11	0.51
3:N:768:ASN:HB3	9:N:9759:HOH:O	2.11	0.51
3:N:1244:GLY:HA3	9:N:9415:HOH:O	2.11	0.51
3:N:1412:LYS:O	3:N:1412:LYS:HG3	2.10	0.51
5:P:139:ALA:HB1	5:P:152:ASP:HB3	1.92	0.51
5:P:392:VAL:HG12	5:P:396:ARG:HB2	1.92	0.51
2:C:54:ILE:HG23	2:C:54:ILE:O	2.10	0.51
2:C:218:VAL:O	2:C:221:LEU:HB3	2.11	0.51
2:C:1014:SER:CB	5:F:331:ASP:HA	2.40	0.51
9:C:9824:HOH:O	5:F:373:LYS:HB3	2.09	0.51
3:D:28:LYS:HD2	3:D:41:ARG:CD	2.41	0.51
3:D:402:PRO:HB3	9:D:9656:HOH:O	2.09	0.51
3:D:486:ARG:HA	3:D:486:ARG:HE	1.76	0.51
3:D:609:GLY:HA2	3:D:613:ARG:HB3	1.92	0.51
3:D:699:VAL:N	3:D:756:GLN:HE22	2.09	0.51
3:D:1013:GLU:HG3	9:D:9868:HOH:O	2.10	0.51
3:D:1497:GLU:O	3:D:1501:GLU:HG3	2.10	0.51
5:F:273:ARG:HA	5:F:276:ARG:NH1	2.23	0.51
5:F:314:PRO:HB2	9:F:9559:HOH:O	2.09	0.51
1:K:42:ARG:NH1	9:K:4396:HOH:O	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:123:MET:HB3	9:K:1711:HOH:O	2.09	0.51
2:M:260:LEU:HA	2:M:291:ALA:CB	2.39	0.51
2:M:279:GLU:HG3	2:M:280:LYS:N	2.26	0.51
2:M:524:VAL:HG22	2:M:525:SER:N	2.26	0.51
2:M:602:GLU:HG2	2:M:603:VAL:N	2.24	0.51
2:M:697:ARG:HG3	9:M:9636:HOH:O	2.09	0.51
2:M:824:ARG:HD3	9:M:9630:HOH:O	2.11	0.51
9:M:2120:HOH:O	4:O:32:ARG:HA	2.09	0.51
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.75	0.51
3:N:711:LEU:C	3:N:713:ILE:H	2.19	0.51
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.46	0.51
3:N:1478:SER:C	3:N:1480:PHE:H	2.17	0.51
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.25	0.51
5:P:366:ALA:O	5:P:370:LYS:HB3	2.10	0.51
1:A:45:LEU:HD21	9:A:9583:HOH:O	2.11	0.51
1:A:146:ARG:HG3	9:A:9567:HOH:O	2.11	0.51
1:B:129:ILE:HG23	9:B:9809:HOH:O	2.10	0.51
2:C:182:VAL:HG12	9:C:9945:HOH:O	2.11	0.51
2:C:283:ILE:HG22	9:C:2143:HOH:O	2.11	0.51
2:C:857:ASP:HB2	2:C:978:ARG:CG	2.39	0.51
2:C:861:LEU:HD23	2:C:863:ASP:N	2.26	0.51
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.46	0.51
3:D:1264:GLU:O	3:D:1266:ARG:HG3	2.10	0.51
5:F:126:LEU:O	5:F:130:VAL:HG23	2.11	0.51
1:L:206:THR:CG2	1:L:209:GLU:H	2.23	0.51
2:M:455:LEU:HD13	2:M:456:ALA:O	2.10	0.51
2:M:651:LYS:HE3	9:M:9350:HOH:O	2.10	0.51
2:M:674:VAL:HG23	2:M:869:VAL:O	2.11	0.51
2:M:1045:ALA:HA	3:N:758:GLU:OE1	2.11	0.51
2:M:1108:PRO:HD2	9:M:2092:HOH:O	2.10	0.51
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.92	0.51
3:N:186:VAL:HG11	3:N:213:VAL:HB	1.93	0.51
3:N:893:GLU:HA	9:N:9628:HOH:O	2.10	0.51
3:N:1368:ILE:O	3:N:1372:VAL:HG23	2.10	0.51
5:P:404:ALA:HB2	9:P:7921:HOH:O	2.09	0.51
1:B:51:THR:HA	1:B:171:PHE:HD1	1.76	0.51
2:C:276:LYS:HD3	9:C:2144:HOH:O	2.10	0.51
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.93	0.51
2:C:1088:LEU:O	2:C:1091:GLU:HB2	2.11	0.51
3:D:162:ARG:HG3	3:D:163:TYR:N	2.26	0.51
3:D:171:LEU:HG	9:D:3222:HOH:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:493:ARG:HD2	3:D:1390:LEU:HD21	1.92	0.51
3:D:581:LEU:HD23	3:D:581:LEU:H	1.75	0.51
3:D:770:LEU:HA	9:D:9581:HOH:O	2.11	0.51
3:D:809:PRO:O	3:D:812:ALA:HB3	2.11	0.51
3:D:853:VAL:HG13	3:D:858:VAL:O	2.11	0.51
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.46	0.51
2:M:603:VAL:O	2:M:646:GLY:HA2	2.11	0.51
2:M:1005:MET:HE2	3:N:648:MET:CE	2.40	0.51
3:N:67:ARG:CD	5:P:375:LEU:HD11	2.36	0.51
3:N:474:GLU:O	3:N:478:LEU:HG	2.10	0.51
3:N:1044:LEU:HD21	3:N:1056:PRO:HG3	1.92	0.51
3:N:1087:ARG:NE	3:N:1238:MET:HB2	2.26	0.51
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.10	0.51
2:C:313:LEU:C	2:C:315:ALA:H	2.18	0.51
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.92	0.51
2:C:583:LEU:O	2:C:587:VAL:HG23	2.10	0.51
3:D:174:GLY:HA3	9:D:9734:HOH:O	2.09	0.51
3:D:783:ARG:NH1	3:D:1029:ARG:HD3	2.26	0.51
3:D:1168:MET:HA	3:D:1168:MET:HE3	1.92	0.51
5:F:194:LEU:HB2	9:F:9560:HOH:O	2.09	0.51
1:K:111:ALA:HB3	1:K:124:ASN:O	2.10	0.51
1:L:79:ILE:HA	1:L:82:LEU:HD12	1.93	0.51
2:M:195:LEU:O	2:M:199:VAL:HG23	2.11	0.51
2:M:205:GLU:HA	2:M:209:ARG:NH2	2.25	0.51
2:M:309:TYR:HA	2:M:312:ALA:HB3	1.93	0.51
2:M:331:ARG:HG2	9:M:9957:HOH:O	2.10	0.51
3:N:701:LEU:O	3:N:747:VAL:HG23	2.10	0.51
3:N:800:LYS:HG2	3:N:829:VAL:CG1	2.37	0.51
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.38	0.51
3:N:1262:LEU:HD23	3:N:1352:ILE:HG12	1.92	0.51
3:N:1432:LYS:HG3	3:N:1433:SER:H	1.76	0.51
1:A:145:ASP:HB3	9:A:9570:HOH:O	2.10	0.51
2:C:694:LEU:CD1	2:C:868:ASP:HB3	2.38	0.51
2:C:1021:LEU:HD12	3:D:622:ARG:HH12	1.75	0.51
3:D:8:VAL:HG12	3:D:1434:TRP:CH2	2.45	0.51
3:D:141:ILE:HD13	3:D:450:TYR:N	2.26	0.51
3:D:1196:THR:HA	9:D:9591:HOH:O	2.10	0.51
3:D:1212:ALA:HB1	9:D:2669:HOH:O	2.10	0.51
5:F:274:THR:OG1	5:F:295:MET:HE3	2.11	0.51
5:F:305:GLU:HG2	5:F:309:LYS:HE3	1.93	0.51
1:K:119:ASP:HB3	9:K:1333:HOH:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:166:PRO:HA	9:K:2046:HOH:O	2.10	0.51
2:M:140:ILE:HA	2:M:332:ARG:O	2.11	0.51
2:M:266:ARG:H	2:M:288:ARG:NH1	2.09	0.51
2:M:431:HIS:CD2	2:M:433:THR:H	2.29	0.51
2:M:897:LEU:HB3	2:M:899:GLN:HG2	1.93	0.51
2:M:901:TYR:CE2	2:M:917:LEU:HD13	2.46	0.51
2:M:911:GLU:O	2:M:915:LYS:HG2	2.10	0.51
3:N:32:ILE:O	5:P:258:ILE:HG23	2.11	0.51
3:N:179:VAL:HG13	9:N:2353:HOH:O	2.10	0.51
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.37	0.51
4:O:87:LYS:HB2	9:O:2278:HOH:O	2.11	0.51
5:P:260:ILE:HG12	5:P:264:MET:HB2	1.92	0.51
5:P:350:LEU:HD12	5:P:422:LEU:HD13	1.92	0.51
1:A:23:PHE:O	1:A:196:THR:HA	2.10	0.51
1:B:227:ASN:HB2	9:B:9778:HOH:O	2.11	0.51
2:C:70:GLU:HB3	9:C:9688:HOH:O	2.11	0.51
2:C:121:MET:HA	2:C:127:PHE:CD2	2.45	0.51
2:C:339:LEU:HD13	2:C:391:LEU:HD21	1.93	0.51
2:C:670:GLN:HE22	2:C:699:PHE:HA	1.76	0.51
3:D:80:VAL:HA	9:D:2231:HOH:O	2.11	0.51
3:D:770:LEU:HD21	3:D:919:PHE:CE1	2.46	0.51
3:D:1264:GLU:HG2	9:D:2050:HOH:O	2.11	0.51
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.11	0.51
3:D:1388:ARG:HB2	9:D:2873:HOH:O	2.11	0.51
1:K:175:ARG:HD3	9:K:2112:HOH:O	2.10	0.51
1:L:187:GLY:HA2	9:N:2058:HOH:O	2.10	0.51
2:M:70:GLU:OE1	2:M:97:ARG:HD3	2.10	0.51
2:M:368:THR:HG22	9:M:9372:HOH:O	2.11	0.51
2:M:586:ARG:HH12	2:M:590:ASP:CG	2.19	0.51
2:M:694:LEU:HD23	2:M:697:ARG:HH21	1.75	0.51
9:M:9230:HOH:O	5:P:405:LEU:HG	2.11	0.51
4:O:72:ARG:HG3	9:O:1901:HOH:O	2.11	0.51
1:B:162:ILE:HD12	9:B:9818:HOH:O	2.11	0.50
2:C:61:LYS:HG3	9:C:2460:HOH:O	2.10	0.50
2:C:63:GLY:HA3	2:C:103:LYS:CG	2.41	0.50
2:C:118:ILE:H	2:C:118:ILE:CD1	2.23	0.50
2:C:283:ILE:HB	2:C:284:ARG:HD2	1.92	0.50
2:C:332:ARG:HG2	2:C:465:GLY:HA3	1.92	0.50
2:C:470:PRO:HG2	9:C:9634:HOH:O	2.11	0.50
3:D:626:SER:HB3	3:D:748:HIS:ND1	2.27	0.50
3:D:777:PRO:O	3:D:912:LYS:HE3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:812:ALA:O	3:D:816:HIS:HB2	2.11	0.50
3:D:953:ASP:HA	9:D:9611:HOH:O	2.10	0.50
3:D:1313:VAL:HA	9:D:9855:HOH:O	2.11	0.50
3:D:1376:MET:SD	3:D:1421:LEU:HD13	2.51	0.50
4:E:70:THR:HA	9:E:9683:HOH:O	2.11	0.50
5:F:304:VAL:HG12	5:F:308:LEU:HD11	1.91	0.50
1:K:227:ASN:HD22	1:K:227:ASN:N	2.08	0.50
2:M:27:ARG:HH11	2:M:27:ARG:HG3	1.76	0.50
2:M:73:LEU:HG	9:M:9263:HOH:O	2.11	0.50
2:M:520:GLU:HG3	9:M:9551:HOH:O	2.11	0.50
2:M:928:LYS:HG3	2:M:932:GLU:HG3	1.92	0.50
3:N:9:ARG:HG2	3:N:9:ARG:HH11	1.74	0.50
3:N:156:GLU:HB3	9:N:9891:HOH:O	2.11	0.50
3:N:601:ARG:NE	3:N:613:ARG:HH21	2.09	0.50
3:N:645:PRO:HA	3:N:721:VAL:O	2.11	0.50
3:N:813:LEU:HD21	9:N:9724:HOH:O	2.09	0.50
3:N:1307:LYS:HG3	9:N:9927:HOH:O	2.11	0.50
3:N:1312:LEU:HD12	3:N:1326:THR:O	2.12	0.50
3:N:1481:VAL:CG1	4:O:18:ARG:HA	2.36	0.50
4:O:39:VAL:HB	4:O:72:ARG:HD3	1.93	0.50
5:P:128:ARG:NH1	5:P:128:ARG:HB2	2.26	0.50
1:A:6:LEU:C	1:A:8:ALA:H	2.18	0.50
1:A:18:ARG:HH22	1:A:88:ARG:NH2	2.09	0.50
1:A:18:ARG:NH2	1:A:88:ARG:HH21	2.07	0.50
1:A:152:PRO:HB3	9:C:9586:HOH:O	2.10	0.50
1:B:12:THR:OG1	1:B:24:VAL:HB	2.11	0.50
1:B:62:LEU:H	1:B:62:LEU:HD12	1.75	0.50
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.94	0.50
2:C:478:VAL:HA	2:C:506:ASN:O	2.11	0.50
2:C:545:ASN:O	2:C:905:ILE:HD11	2.11	0.50
2:C:1100:GLN:HB3	9:D:9712:HOH:O	2.09	0.50
3:D:550:ARG:HH11	3:D:550:ARG:HG3	1.76	0.50
3:D:827:ILE:O	3:D:837:GLY:HA3	2.11	0.50
3:D:868:TYR:HB2	3:D:873:LEU:HD11	1.94	0.50
3:D:1346:ARG:HA	3:D:1346:ARG:NE	2.26	0.50
4:E:51:LEU:HD13	9:E:9663:HOH:O	2.10	0.50
5:F:93:LEU:HD21	5:F:102:LEU:HD11	1.92	0.50
5:F:271:LEU:HD22	5:F:291:ILE:HD11	1.93	0.50
1:K:23:PHE:O	1:K:196:THR:HA	2.11	0.50
1:L:26:GLU:CB	1:L:194:LYS:HG3	2.41	0.50
1:L:112:ARG:HG3	9:L:6646:HOH:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:182:VAL:HG23	9:M:9649:HOH:O	2.10	0.50
2:M:310:LEU:O	2:M:314:THR:HG23	2.11	0.50
2:M:945:ARG:O	2:M:948:GLU:HG3	2.11	0.50
3:N:1063:GLU:HB3	9:N:2394:HOH:O	2.11	0.50
3:N:1128:VAL:HA	9:N:2136:HOH:O	2.10	0.50
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.93	0.50
3:N:1493:LYS:HD2	9:N:2553:HOH:O	2.11	0.50
5:P:140:ARG:HA	9:P:7056:HOH:O	2.10	0.50
1:A:143:ARG:HD3	1:A:158:ILE:HG21	1.93	0.50
1:A:186:LEU:HA	9:A:9786:HOH:O	2.11	0.50
2:C:55:GLU:HG2	9:C:2166:HOH:O	2.11	0.50
2:C:157:ARG:HH11	2:C:157:ARG:HG3	1.76	0.50
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.47	0.50
2:C:756:VAL:HG21	2:C:823:VAL:CG1	2.41	0.50
2:C:799:ILE:O	2:C:801:VAL:HG13	2.11	0.50
2:C:965:GLU:HG3	9:C:2351:HOH:O	2.11	0.50
3:D:58:CYS:SG	3:D:59:ALA:N	2.83	0.50
3:D:416:ALA:H	3:D:417:PRO:CD	2.25	0.50
3:D:566:ILE:HD11	5:F:192:LEU:CD2	2.41	0.50
3:D:711:LEU:C	3:D:713:ILE:H	2.18	0.50
3:D:838:ARG:CG	3:D:865:THR:HG23	2.41	0.50
3:D:1068:LEU:O	3:D:1072:ILE:HG12	2.11	0.50
3:D:1284:GLU:HB3	9:D:9836:HOH:O	2.11	0.50
3:D:1362:LYS:HE3	9:D:9887:HOH:O	2.10	0.50
5:F:94:LEU:HB2	5:F:98:GLU:OE2	2.11	0.50
1:L:2:LEU:HA	1:L:6:LEU:HD22	1.92	0.50
2:M:41:ASN:HD22	2:M:41:ASN:H	1.58	0.50
2:M:195:LEU:HA	9:M:9289:HOH:O	2.12	0.50
2:M:568:ALA:CB	2:M:668:LEU:HB3	2.40	0.50
2:M:952:LEU:CD1	2:M:969:GLN:HE22	2.19	0.50
2:M:969:GLN:HB3	9:M:9280:HOH:O	2.10	0.50
2:M:1083:GLU:N	9:M:9233:HOH:O	2.43	0.50
2:M:1087:VAL:HG12	2:M:1091:GLU:OE2	2.11	0.50
3:N:553:ARG:HH12	3:N:573:MET:HE1	1.76	0.50
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.93	0.50
3:N:1476:THR:HG23	4:O:21:VAL:CG2	2.41	0.50
5:P:167:PRO:HB2	5:P:169:GLU:OE1	2.11	0.50
5:P:396:ARG:HA	5:P:399:GLN:HE21	1.76	0.50
2:C:53:PRO:HG3	9:C:9996:HOH:O	2.10	0.50
2:C:108:ILE:HB	9:C:9838:HOH:O	2.12	0.50
2:C:259:GLY:HA2	2:C:290:LEU:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:345:ARG:HD3	9:C:9778:HOH:O	2.10	0.50
2:C:725:ASP:O	2:C:727:PRO:HD3	2.11	0.50
2:C:745:ILE:HG12	9:C:9595:HOH:O	2.11	0.50
2:C:1058:ASP:OD1	2:C:1084:SER:N	2.43	0.50
3:D:475:LYS:HD3	3:D:478:LEU:CD1	2.40	0.50
3:D:1128:VAL:HB	3:D:1131:SER:OG	2.12	0.50
1:L:180:GLN:HG2	9:L:1240:HOH:O	2.10	0.50
2:M:15:LEU:HD22	9:M:9656:HOH:O	2.12	0.50
2:M:31:GLN:HB2	9:M:9742:HOH:O	2.10	0.50
2:M:149:THR:HA	9:M:9241:HOH:O	2.11	0.50
2:M:431:HIS:HD2	2:M:433:THR:H	1.60	0.50
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.41	0.50
2:M:678:PRO:O	3:N:943:THR:HG23	2.12	0.50
2:M:744:ARG:HA	9:M:9460:HOH:O	2.10	0.50
9:M:2444:HOH:O	3:N:744:GLN:HG3	2.12	0.50
3:N:1127:GLU:HA	9:N:2957:HOH:O	2.10	0.50
5:P:93:LEU:HD12	5:P:191:ASN:HD21	1.76	0.50
1:A:46:SER:HA	9:A:9582:HOH:O	2.11	0.50
1:B:111:ALA:HB3	1:B:124:ASN:O	2.11	0.50
2:C:426:ASP:HA	2:C:429:ASP:OD2	2.12	0.50
2:C:479:VAL:HG22	2:C:506:ASN:O	2.12	0.50
2:C:1058:ASP:CG	2:C:1084:SER:H	2.19	0.50
3:D:22:SER:HA	3:D:90:MET:O	2.12	0.50
3:D:132:TYR:N	3:D:132:TYR:CD1	2.79	0.50
3:D:933:ALA:O	3:D:937:TYR:HD1	1.94	0.50
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.37	0.50
3:D:1121:PRO:C	3:D:1122:LEU:HD12	2.36	0.50
2:M:28:ARG:HG2	2:M:28:ARG:HH11	1.76	0.50
2:M:202:TYR:CE1	2:M:304:LEU:HD22	2.45	0.50
2:M:428:ARG:HA	2:M:450:GLY:HA3	1.94	0.50
2:M:516:ARG:HB2	9:M:9549:HOH:O	2.11	0.50
2:M:728:HIS:O	2:M:729:LEU:HD22	2.12	0.50
3:N:13:ALA:HB1	3:N:18:ILE:HD11	1.94	0.50
3:N:17:LYS:HG3	9:N:9504:HOH:O	2.10	0.50
3:N:102:ILE:HD13	3:N:586:ARG:HB2	1.94	0.50
3:N:165:LYS:HE2	9:N:9671:HOH:O	2.12	0.50
3:N:166:GLN:HE21	3:N:167:GLU:C	2.19	0.50
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.42	0.50
3:N:1121:PRO:HD3	3:N:1346:ARG:HH22	1.76	0.50
5:P:94:LEU:HD12	5:P:97:GLU:HB2	1.93	0.50
5:P:260:ILE:HD11	5:P:264:MET:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:367:MET:HB3	9:P:3256:HOH:O	2.10	0.50
1:A:41:ARG:NH1	1:A:177:VAL:HB	2.25	0.50
1:A:111:ALA:HB3	1:A:124:ASN:O	2.12	0.50
1:A:156:HIS:H	1:A:156:HIS:CD2	2.29	0.50
1:A:184:THR:O	1:A:192:LEU:HD12	2.11	0.50
1:B:60:ASP:HB2	9:B:9588:HOH:O	2.11	0.50
1:B:211:LEU:O	1:B:215:VAL:HG13	2.12	0.50
2:C:19:THR:HG21	2:C:124:ASP:O	2.11	0.50
2:C:266:ARG:HH11	2:C:266:ARG:HG3	1.77	0.50
2:C:514:VAL:HG22	9:C:9943:HOH:O	2.11	0.50
2:C:604:ALA:HB3	2:C:612:VAL:O	2.12	0.50
2:C:644:VAL:HB	9:C:2682:HOH:O	2.12	0.50
2:C:669:GLY:O	2:C:670:GLN:HG3	2.12	0.50
2:C:770:GLU:HG2	9:D:9612:HOH:O	2.11	0.50
2:C:958:THR:HB	9:C:9980:HOH:O	2.11	0.50
3:D:399:ARG:HB3	3:D:402:PRO:HG3	1.92	0.50
3:D:630:VAL:HG12	3:D:631:ILE:N	2.27	0.50
3:D:939:PHE:O	3:D:942:SER:HB3	2.12	0.50
3:D:1351:GLU:HA	3:D:1351:GLU:OE1	2.11	0.50
3:D:1409:ALA:HB2	9:D:2109:HOH:O	2.11	0.50
9:D:2101:HOH:O	4:E:48:MET:HG3	2.11	0.50
5:F:209:PHE:HA	5:F:212:LEU:HD12	1.93	0.50
5:F:392:VAL:HG13	9:F:9894:HOH:O	2.10	0.50
1:K:151:VAL:HG22	9:K:3152:HOH:O	2.11	0.50
2:M:264:PRO:HB2	2:M:289:THR:CB	2.41	0.50
2:M:456:ALA:HA	2:M:541:SER:HA	1.93	0.50
2:M:478:VAL:HA	2:M:506:ASN:O	2.12	0.50
2:M:564:MET:HA	9:M:9338:HOH:O	2.11	0.50
2:M:769:PRO:HD2	9:M:9815:HOH:O	2.11	0.50
2:M:876:VAL:H	2:M:877:PRO:HD2	1.75	0.50
3:N:2:LYS:HG2	3:N:3:LYS:HZ2	1.76	0.50
3:N:65:ARG:CD	3:N:66:GLN:H	2.25	0.50
3:N:81:THR:HB	3:N:85:VAL:HG21	1.91	0.50
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.42	0.50
3:N:637:LEU:HD11	3:N:642:CYS:CA	2.41	0.50
3:N:714:GLN:HE22	3:N:732:VAL:HB	1.77	0.50
3:N:958:GLU:HB3	9:N:9999:HOH:O	2.10	0.50
3:N:1123:PHE:CE1	3:N:1134:LEU:HG	2.46	0.50
3:N:1124:GLN:OE1	3:N:1135:ARG:HA	2.12	0.50
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.94	0.50
1:A:115:LEU:HD12	1:A:115:LEU:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:GLU:O	1:A:194:LYS:HB3	2.11	0.50
1:B:90:LEU:HD23	1:B:91:ASN:HD22	1.77	0.50
1:B:195:LEU:HD12	1:B:196:THR:N	2.27	0.50
3:D:969:ARG:HA	9:D:2563:HOH:O	2.11	0.50
3:D:1319:VAL:HA	3:D:1323:GLN:OE1	2.12	0.50
5:F:340:SER:O	5:F:342:VAL:N	2.45	0.50
2:M:792:VAL:N	9:M:9305:HOH:O	2.44	0.50
2:M:875:GLY:O	2:M:879:ARG:HD3	2.12	0.50
3:N:73:CYS:HB3	3:N:76:CYS:O	2.11	0.50
3:N:737:ASN:C	9:N:9228:HOH:O	2.54	0.50
3:N:827:ILE:HG23	9:N:9636:HOH:O	2.12	0.50
3:N:1103:HIS:HD2	3:N:1462:LEU:H	1.58	0.50
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.93	0.50
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.77	0.50
3:N:1335:LEU:HD11	9:N:2029:HOH:O	2.11	0.50
3:N:1349:VAL:HG22	3:N:1372:VAL:HG21	1.94	0.50
3:N:1404:ASN:ND2	3:N:1408:ILE:HD12	2.27	0.50
2:C:289:THR:O	2:C:291:ALA:N	2.44	0.50
2:C:759:THR:HG21	2:C:783:ARG:CZ	2.42	0.50
3:D:115:LEU:CD1	3:D:499:VAL:HG22	2.42	0.50
3:D:456:MET:H	3:D:456:MET:HE2	1.77	0.50
3:D:521:PRO:C	3:D:525:ARG:HH11	2.20	0.50
3:D:563:PRO:HB3	9:F:9576:HOH:O	2.11	0.50
3:D:676:MET:HG3	9:D:9957:HOH:O	2.11	0.50
3:D:894:LYS:HA	9:D:2557:HOH:O	2.11	0.50
1:L:36:LEU:O	1:L:39:PRO:HD2	2.12	0.50
2:M:110:GLU:HB3	9:M:9372:HOH:O	2.12	0.50
2:M:139:GLN:HB3	2:M:334:ARG:HB2	1.93	0.50
2:M:649:VAL:HA	2:M:650:ARG:HH21	1.77	0.50
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.47	0.50
3:N:131:LYS:HZ3	3:N:568:ARG:HG2	1.77	0.50
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.93	0.50
3:N:521:PRO:O	3:N:525:ARG:HG2	2.12	0.50
3:N:844:ALA:O	3:N:867:ARG:HB3	2.11	0.50
3:N:956:ILE:HG12	3:N:1039:CYS:O	2.11	0.50
3:N:1124:GLN:HB2	9:N:9329:HOH:O	2.12	0.50
5:P:147:LEU:H	5:P:147:LEU:HD12	1.77	0.50
5:P:278:LEU:HB3	5:P:286:PRO:CG	2.27	0.50
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.93	0.50
2:C:45:GLN:HB2	2:C:71:TYR:CE2	2.47	0.50
2:C:260:LEU:HA	2:C:291:ALA:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:747:ALA:O	2:C:800:VAL:HG23	2.12	0.50
3:D:6:ARG:HB3	3:D:6:ARG:CZ	2.42	0.50
3:D:959:GLU:HG3	3:D:1006:ALA:HB1	1.93	0.50
3:D:1101:VAL:HG21	3:D:1424:VAL:HG13	1.93	0.50
3:D:1362:LYS:HG3	9:D:2173:HOH:O	2.12	0.50
5:F:372:ARG:HB3	9:F:2056:HOH:O	2.12	0.50
1:K:7:LYS:NZ	1:K:27:PRO:HG2	2.27	0.50
2:M:64:LEU:HD13	9:M:9296:HOH:O	2.12	0.50
2:M:139:GLN:OE1	2:M:415:PRO:HD2	2.12	0.50
2:M:304:LEU:HB2	9:M:9883:HOH:O	2.11	0.50
2:M:390:GLN:HA	9:P:4407:HOH:O	2.10	0.50
3:N:129:PHE:O	3:N:572:ARG:HG3	2.11	0.50
3:N:448:GLU:CD	3:N:448:GLU:H	2.20	0.50
3:N:519:VAL:HG13	3:N:544:TYR:CE1	2.47	0.50
3:N:599:PRO:HD2	9:N:9833:HOH:O	2.12	0.50
3:N:681:ARG:HB2	3:N:681:ARG:HH11	1.77	0.50
3:N:813:LEU:HD23	9:N:9996:HOH:O	2.10	0.50
5:P:215:GLU:O	5:P:218:GLN:HB3	2.11	0.50
5:P:261:PRO:HD3	9:P:8018:HOH:O	2.12	0.50
1:A:153:ALA:HA	1:A:156:HIS:CD2	2.47	0.49
1:B:189:ARG:HD2	9:B:9618:HOH:O	2.11	0.49
2:C:479:VAL:HG21	2:C:503:LEU:HD21	1.93	0.49
2:C:769:PRO:HA	9:C:9981:HOH:O	2.12	0.49
2:C:1059:ASP:HB2	9:C:9720:HOH:O	2.12	0.49
3:D:67:ARG:HA	3:D:67:ARG:HE	1.76	0.49
3:D:148:GLU:CD	3:D:148:GLU:N	2.70	0.49
3:D:166:GLN:HB3	3:D:395:VAL:HG21	1.94	0.49
3:D:497:GLU:HB2	9:D:2123:HOH:O	2.11	0.49
3:D:864:VAL:HA	9:D:9613:HOH:O	2.11	0.49
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.92	0.49
5:F:158:GLU:HA	5:F:161:GLN:NE2	2.27	0.49
5:F:277:GLN:HA	9:F:9672:HOH:O	2.11	0.49
1:L:111:ALA:HB3	1:L:124:ASN:O	2.12	0.49
2:M:48:PHE:HA	9:M:9688:HOH:O	2.11	0.49
2:M:164:PRO:HD2	2:M:170:PRO:O	2.12	0.49
3:N:3:LYS:HA	9:N:2915:HOH:O	2.12	0.49
3:N:177:ALA:C	3:N:199:LEU:HD13	2.37	0.49
3:N:502:PHE:CD1	3:N:509:PRO:HB3	2.47	0.49
3:N:543:LEU:HD22	3:N:580:ALA:HB1	1.93	0.49
3:N:1079:LYS:HG3	3:N:1080:GLY:N	2.26	0.49
3:N:1378:TYR:OH	3:N:1431:THR:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1428:ALA:C	3:N:1430:SER:H	2.20	0.49
4:O:45:ARG:HB3	4:O:46:PRO:HD2	1.92	0.49
5:P:119:ILE:HG12	9:P:2011:HOH:O	2.11	0.49
5:P:321:ILE:HD11	5:P:329:TYR:CB	2.39	0.49
5:P:393:THR:O	5:P:397:ILE:HG13	2.11	0.49
5:P:422:LEU:H	5:P:422:LEU:HD12	1.77	0.49
2:C:86:LYS:CG	2:C:813:VAL:HG12	2.39	0.49
2:C:148:PHE:CE1	2:C:281:LEU:HD22	2.47	0.49
2:C:350:ARG:HB3	9:C:2086:HOH:O	2.12	0.49
2:C:674:VAL:HG12	2:C:990:GLY:O	2.12	0.49
2:C:786:LYS:HG3	9:C:2781:HOH:O	2.11	0.49
3:D:127:LEU:HD12	3:D:457:GLY:H	1.77	0.49
3:D:169:TYR:N	3:D:170:PRO:HD3	2.27	0.49
3:D:217:LYS:HA	9:D:9649:HOH:O	2.13	0.49
3:D:405:ASP:OD1	3:D:407:VAL:HG23	2.13	0.49
3:D:474:GLU:O	3:D:478:LEU:HG	2.12	0.49
3:D:629:SER:HA	9:D:2061:HOH:O	2.12	0.49
3:D:1274:ILE:O	3:D:1274:ILE:HD12	2.13	0.49
3:D:1428:ALA:C	3:D:1430:SER:H	2.18	0.49
4:E:41:GLU:CA	4:E:45:ARG:HG3	2.42	0.49
5:F:257:THR:C	5:F:258:ILE:HG13	2.37	0.49
5:F:273:ARG:HD3	9:F:9638:HOH:O	2.12	0.49
1:L:145:ASP:HB3	9:L:7895:HOH:O	2.12	0.49
1:L:161:ARG:HB3	9:L:4752:HOH:O	2.12	0.49
2:M:346:VAL:HG12	2:M:350:ARG:HE	1.77	0.49
2:M:606:VAL:HG21	2:M:645:VAL:HG22	1.95	0.49
2:M:709:GLU:CD	2:M:824:ARG:HG2	2.38	0.49
3:N:65:ARG:HB2	5:P:375:LEU:O	2.12	0.49
3:N:87:ARG:HG3	3:N:524:LEU:HG	1.93	0.49
3:N:180:LYS:HG3	9:N:9302:HOH:O	2.11	0.49
3:N:455:ARG:HH22	5:P:140:ARG:CB	2.25	0.49
3:N:507:ASN:HB2	9:N:9257:HOH:O	2.12	0.49
3:N:966:GLU:O	3:N:969:ARG:HG2	2.11	0.49
3:N:1189:ARG:HB3	3:N:1189:ARG:CZ	2.43	0.49
4:O:40:LEU:HD11	4:O:67:GLU:HG2	1.94	0.49
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.94	0.49
2:C:194:VAL:HG21	2:C:221:LEU:O	2.12	0.49
3:D:147:VAL:HA	9:D:9668:HOH:O	2.11	0.49
3:D:172:PRO:HB3	3:D:178:LEU:CB	2.42	0.49
4:E:24:ALA:O	4:E:28:GLN:HG3	2.12	0.49
5:F:125:ASP:HA	9:F:9581:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:160:ASP:HA	5:F:163:LEU:CD1	2.34	0.49
1:K:62:LEU:HD22	2:M:745:ILE:HB	1.94	0.49
1:K:229:GLN:HB2	9:K:5388:HOH:O	2.10	0.49
1:L:54:THR:HG21	1:L:143:ARG:NH2	2.26	0.49
1:L:76:VAL:HG23	9:L:2024:HOH:O	2.12	0.49
1:L:114:PHE:HB3	9:L:6216:HOH:O	2.11	0.49
2:M:246:ASP:HB3	9:M:9919:HOH:O	2.12	0.49
2:M:259:GLY:HA2	2:M:290:LEU:O	2.12	0.49
3:N:389:GLU:HG2	9:N:9256:HOH:O	2.11	0.49
3:N:701:LEU:C	3:N:702:LEU:HD12	2.37	0.49
3:N:704:ARG:HH12	3:N:743:ASP:CB	2.26	0.49
4:O:32:ARG:C	4:O:34:GLY:H	2.20	0.49
4:O:47:LYS:CA	4:O:54:LEU:HB3	2.42	0.49
5:P:172:ARG:O	5:P:176:ILE:HG13	2.11	0.49
5:P:278:LEU:HD13	5:P:290:GLU:HB3	1.95	0.49
5:P:357:ALA:HB1	5:P:408:LEU:HD11	1.94	0.49
1:A:30:ARG:HH22	1:B:155:LYS:HZ2	1.60	0.49
2:C:266:ARG:HB2	2:C:288:ARG:NE	2.27	0.49
2:C:394:PHE:HB3	9:C:9833:HOH:O	2.12	0.49
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.41	0.49
2:C:590:ASP:HA	9:C:9671:HOH:O	2.11	0.49
2:C:727:PRO:HG2	2:C:785:VAL:HG12	1.93	0.49
2:C:769:PRO:HB2	9:D:9612:HOH:O	2.12	0.49
2:C:919:ALA:HB2	9:C:9756:HOH:O	2.12	0.49
3:D:795:VAL:CG1	3:D:863:VAL:HG22	2.42	0.49
3:D:1274:ILE:HB	3:D:1322:GLY:HA2	1.94	0.49
3:D:1366:LYS:HA	3:D:1369:GLU:OE1	2.11	0.49
1:L:163:ASN:HA	9:L:5364:HOH:O	2.12	0.49
2:M:9:ILE:CD1	2:M:536:PRO:HD3	2.43	0.49
2:M:42:VAL:HG22	2:M:268:ASP:OD2	2.13	0.49
2:M:193:LEU:O	2:M:193:LEU:HD13	2.13	0.49
2:M:452:ILE:HG12	9:M:9712:HOH:O	2.12	0.49
2:M:958:THR:HG23	2:M:961:GLU:HG3	1.93	0.49
3:N:165:LYS:HB2	3:N:395:VAL:HG11	1.93	0.49
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.39	0.49
3:N:1092:GLY:O	3:N:1096:ARG:N	2.45	0.49
3:N:1110:ALA:HB1	9:N:9774:HOH:O	2.11	0.49
1:A:184:THR:HG22	1:A:192:LEU:O	2.12	0.49
2:C:257:VAL:C	2:C:259:GLY:H	2.21	0.49
2:C:627:ARG:HE	2:C:627:ARG:N	1.89	0.49
3:D:177:ALA:HA	3:D:199:LEU:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.42	0.49
3:D:868:TYR:H	3:D:873:LEU:HD11	1.77	0.49
3:D:902:LEU:HD23	3:D:902:LEU:H	1.78	0.49
3:D:935:LYS:HZ3	3:D:936:TYR:N	2.10	0.49
3:D:1396:GLU:HA	3:D:1399:ASP:OD2	2.13	0.49
5:F:299:TRP:HD1	9:F:9664:HOH:O	1.95	0.49
1:K:91:ASN:O	1:K:94:LEU:HD12	2.13	0.49
1:L:109:VAL:HG23	1:L:132:LEU:HD13	1.94	0.49
2:M:98:LEU:O	2:M:109:LYS:HG3	2.13	0.49
2:M:313:LEU:HD12	9:M:2079:HOH:O	2.11	0.49
2:M:720:GLU:HB3	9:M:9349:HOH:O	2.11	0.49
3:N:9:ARG:HA	3:N:1455:LYS:O	2.12	0.49
3:N:112:ILE:HD11	3:N:124:GLU:HG2	1.93	0.49
3:N:581:LEU:HD12	3:N:582:LEU:N	2.27	0.49
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.95	0.49
2:C:28:ARG:HA	9:C:2297:HOH:O	2.12	0.49
2:C:40:GLU:HG2	9:C:2473:HOH:O	2.13	0.49
2:C:327:HIS:HB3	2:C:330:ASN:ND2	2.28	0.49
2:C:327:HIS:HE2	2:C:492:ASP:CG	2.21	0.49
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.47	0.49
2:C:602:GLU:HB3	9:C:9979:HOH:O	2.12	0.49
2:C:1115:LEU:HD23	3:D:85:VAL:CG1	2.40	0.49
3:D:181:ASP:O	3:D:185:VAL:HG23	2.13	0.49
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.94	0.49
3:D:413:ASP:HA	9:D:2284:HOH:O	2.12	0.49
3:D:486:ARG:O	3:D:489:ARG:HG2	2.12	0.49
3:D:1303:TYR:HA	9:D:2028:HOH:O	2.13	0.49
3:D:1379:VAL:N	9:D:2424:HOH:O	2.44	0.49
3:D:1499:ARG:HA	9:D:2938:HOH:O	2.11	0.49
5:F:167:PRO:HB2	5:F:169:GLU:OE1	2.13	0.49
1:K:206:THR:CG2	1:K:209:GLU:H	2.24	0.49
1:L:45:LEU:HD21	1:L:177:VAL:HG23	1.94	0.49
2:M:332:ARG:HG2	2:M:333:ILE:N	2.27	0.49
2:M:644:VAL:HB	9:M:9422:HOH:O	2.12	0.49
2:M:777:ILE:HG22	2:M:778:PHE:HD1	1.76	0.49
2:M:897:LEU:HB3	2:M:899:GLN:NE2	2.28	0.49
3:N:135:LEU:HD13	3:N:147:VAL:HG12	1.94	0.49
3:N:401:TYR:N	3:N:402:PRO:HD3	2.28	0.49
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.42	0.49
3:N:1168:MET:HE2	9:N:9270:HOH:O	2.11	0.49
3:N:1478:SER:C	3:N:1480:PHE:N	2.67	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.94	0.49
1:B:162:ILE:HB	9:B:9818:HOH:O	2.11	0.49
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.94	0.49
2:C:551:GLU:HG3	2:C:552:HIS:CD2	2.47	0.49
2:C:744:ARG:HA	9:C:9595:HOH:O	2.13	0.49
2:C:1035:MET:HB3	3:D:707:THR:HB	1.94	0.49
3:D:710:ARG:HG2	3:D:710:ARG:NH1	2.25	0.49
3:D:1068:LEU:O	3:D:1069:GLU:C	2.55	0.49
3:D:1159:ARG:HG3	3:D:1159:ARG:HH11	1.76	0.49
5:F:169:GLU:HA	9:F:9835:HOH:O	2.11	0.49
5:F:266:GLU:HA	5:F:269:ASN:ND2	2.24	0.49
1:K:184:THR:O	1:K:192:LEU:HB2	2.12	0.49
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.48	0.49
1:L:41:ARG:HG3	1:L:177:VAL:HB	1.94	0.49
2:M:82:GLU:HG3	9:M:9567:HOH:O	2.13	0.49
2:M:101:ILE:HG22	2:M:102:HIS:N	2.26	0.49
2:M:583:LEU:O	2:M:587:VAL:HG23	2.13	0.49
2:M:1028:GLY:HA2	9:M:9259:HOH:O	2.12	0.49
3:N:26:VAL:N	9:N:9259:HOH:O	2.44	0.49
3:N:153:LEU:HD22	9:N:2799:HOH:O	2.11	0.49
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.12	0.49
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.94	0.49
1:A:26:GLU:HB3	1:A:194:LYS:HG3	1.95	0.49
2:C:689:VAL:HG21	2:C:870:ILE:HB	1.93	0.49
2:C:1102:LEU:HD11	9:D:9712:HOH:O	2.13	0.49
3:D:179:VAL:CG2	3:D:389:GLU:HG3	2.42	0.49
3:D:1023:MET:O	3:D:1028:ALA:HB3	2.12	0.49
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.43	0.49
3:D:1310:ARG:HB3	9:D:9775:HOH:O	2.13	0.49
4:E:25:LYS:O	4:E:28:GLN:HB2	2.13	0.49
5:F:350:LEU:O	5:F:354:LEU:HG	2.13	0.49
5:F:395:GLU:O	5:F:399:GLN:HB2	2.12	0.49
1:K:11:PHE:HB2	9:K:3188:HOH:O	2.12	0.49
1:L:101:LEU:HA	9:L:1474:HOH:O	2.13	0.49
2:M:222:MET:HG3	9:M:2024:HOH:O	2.13	0.49
2:M:269:LEU:HD22	2:M:288:ARG:HB2	1.94	0.49
2:M:545:ASN:HB3	2:M:583:LEU:HD12	1.95	0.49
2:M:776:SER:HA	2:M:780:GLU:CB	2.41	0.49
3:N:412:GLY:O	3:N:421:LEU:HB3	2.12	0.49
3:N:657:LEU:HD22	3:N:691:LEU:HD13	1.93	0.49
3:N:947:ILE:O	3:N:947:ILE:HD12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.39	0.49
3:N:968:ASP:O	3:N:971:LEU:HB3	2.12	0.49
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.13	0.49
3:N:1448:THR:O	3:N:1451:ALA:HB3	2.13	0.49
9:N:2509:HOH:O	5:P:94:LEU:HD21	2.13	0.49
4:O:25:LYS:O	4:O:28:GLN:HB2	2.13	0.49
5:P:277:GLN:HG2	9:P:1413:HOH:O	2.12	0.49
5:P:320:PRO:HB3	9:P:5311:HOH:O	2.12	0.49
1:B:184:THR:HG22	1:B:192:LEU:O	2.11	0.49
1:B:195:LEU:HD12	1:B:196:THR:H	1.76	0.49
2:C:27:ARG:HH11	2:C:27:ARG:HG3	1.77	0.49
2:C:142:ARG:HG3	9:C:2425:HOH:O	2.11	0.49
2:C:188:LYS:C	2:C:188:LYS:HD3	2.37	0.49
2:C:446:GLY:HA3	9:C:9687:HOH:O	2.12	0.49
2:C:564:MET:HG2	2:C:840:ALA:HB3	1.95	0.49
2:C:1073:GLY:HA3	3:D:659:LYS:NZ	2.28	0.49
3:D:89:ARG:O	3:D:521:PRO:HG3	2.13	0.49
3:D:116:LEU:O	3:D:118:LEU:N	2.45	0.49
3:D:1012:GLU:HB3	9:D:9868:HOH:O	2.13	0.49
3:D:1047:LYS:HG2	3:D:1053:PHE:CE1	2.47	0.49
5:F:162:LYS:HE3	9:F:9869:HOH:O	2.13	0.49
1:K:182:GLU:O	1:K:194:LYS:HB3	2.12	0.49
1:L:132:LEU:HG	9:L:2881:HOH:O	2.12	0.49
2:M:42:VAL:HA	2:M:46:ALA:HB2	1.95	0.49
2:M:956:GLY:HA2	9:M:2324:HOH:O	2.12	0.49
3:N:168:THR:OG1	3:N:393:ILE:HB	2.11	0.49
3:N:527:MET:HE3	3:N:527:MET:HA	1.94	0.49
3:N:1330:ILE:HG12	9:N:9950:HOH:O	2.13	0.49
3:N:1442:ASN:HD22	3:N:1442:ASN:H	1.60	0.49
4:O:63:TRP:O	4:O:67:GLU:HG3	2.13	0.49
5:P:76:SER:O	5:P:80:PRO:HD2	2.12	0.49
5:P:168:LYS:HG3	9:P:3066:HOH:O	2.12	0.49
1:A:45:LEU:HD21	1:A:177:VAL:HG23	1.93	0.49
1:A:94:LEU:HD21	1:A:119:ASP:HB2	1.94	0.49
1:B:48:ILE:HG23	9:B:9710:HOH:O	2.12	0.49
2:C:84:ARG:HH11	2:C:84:ARG:HG3	1.77	0.49
2:C:595:LEU:CD1	2:C:639:GLN:HG2	2.43	0.49
3:D:186:VAL:HG11	3:D:213:VAL:HB	1.94	0.49
3:D:661:MET:CE	3:D:673:ALA:HB1	2.42	0.49
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.95	0.49
3:D:1247:ALA:HB1	9:D:2742:HOH:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1348:LEU:O	3:D:1352:ILE:HG13	2.13	0.49
3:D:1465:ASN:OD1	3:D:1470:ARG:HB3	2.12	0.49
4:E:30:LEU:O	4:E:35:PHE:HA	2.12	0.49
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.94	0.49
5:F:419:ARG:HG2	5:F:419:ARG:HH11	1.76	0.49
1:L:62:LEU:HD12	1:L:62:LEU:H	1.78	0.49
2:M:288:ARG:HB3	9:M:9500:HOH:O	2.12	0.49
2:M:657:ASP:HB3	2:M:661:SER:OG	2.13	0.49
2:M:696:LYS:HA	9:M:9665:HOH:O	2.12	0.49
2:M:841:ASN:OD1	2:M:843:HIS:HB2	2.13	0.49
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.95	0.49
3:N:141:ILE:H	3:N:141:ILE:CD1	2.24	0.49
3:N:413:ASP:OD2	3:N:419:ASP:HA	2.13	0.49
3:N:767:HIS:C	3:N:768:ASN:HD22	2.20	0.49
3:N:1282:ARG:HG2	9:N:9906:HOH:O	2.12	0.49
3:N:1287:GLU:HA	9:N:9764:HOH:O	2.12	0.49
3:N:1437:ALA:HB2	9:N:9283:HOH:O	2.11	0.49
5:P:77:THR:O	5:P:80:PRO:HG2	2.13	0.49
5:P:198:ILE:HG12	5:P:244:ARG:HH12	1.78	0.49
5:P:375:LEU:HG	9:P:3218:HOH:O	2.13	0.49
1:A:34:VAL:HA	9:A:9604:HOH:O	2.12	0.48
1:B:17:GLY:C	1:B:19:GLU:H	2.21	0.48
1:B:162:ILE:HG13	9:B:9680:HOH:O	2.13	0.48
3:D:145:VAL:HG21	9:D:9785:HOH:O	2.13	0.48
3:D:729:HIS:ND1	3:D:730:PRO:N	2.61	0.48
3:D:1148:VAL:HG11	3:D:1203:LYS:HD2	1.95	0.48
3:D:1304:LYS:HD3	3:D:1304:LYS:N	2.16	0.48
1:K:186:LEU:HB2	1:K:192:LEU:CD1	2.43	0.48
2:M:100:LEU:HG	2:M:368:THR:HG23	1.94	0.48
2:M:144:PRO:HA	2:M:163:ILE:O	2.13	0.48
2:M:254:VAL:HG12	9:M:2026:HOH:O	2.12	0.48
2:M:534:VAL:H	2:M:538:GLN:NE2	2.11	0.48
2:M:570:PRO:HB3	2:M:660:ALA:HB2	1.94	0.48
2:M:575:GLN:HG2	2:M:671:ASN:ND2	2.27	0.48
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.47	0.48
3:N:994:GLN:HE21	3:N:998:GLU:CD	2.20	0.48
3:N:1120:VAL:HA	3:N:1346:ARG:HH22	1.78	0.48
3:N:1282:ARG:HB2	3:N:1293:PHE:HB2	1.95	0.48
9:N:9359:HOH:O	4:O:50:THR:HG21	2.12	0.48
1:B:23:PHE:O	1:B:196:THR:HA	2.12	0.48
1:B:159:LYS:HE3	9:B:9720:HOH:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:164:PRO:HD2	2:C:170:PRO:O	2.13	0.48
2:C:266:ARG:O	2:C:288:ARG:HD3	2.13	0.48
2:C:428:ARG:HA	2:C:450:GLY:HA3	1.94	0.48
2:C:574:ALA:O	2:C:575:GLN:HB2	2.12	0.48
2:C:877:PRO:HB3	3:D:1020:LEU:CD1	2.43	0.48
3:D:169:TYR:CG	3:D:169:TYR:O	2.67	0.48
3:D:235:ALA:HB1	9:D:9573:HOH:O	2.13	0.48
3:D:873:LEU:HA	9:D:2884:HOH:O	2.12	0.48
4:E:8:LYS:HD3	9:E:9637:HOH:O	2.13	0.48
5:F:115:LYS:HD3	5:F:173:TYR:CE2	2.48	0.48
5:F:139:ALA:HB1	5:F:152:ASP:HB3	1.94	0.48
1:L:119:ASP:HB3	9:L:1485:HOH:O	2.12	0.48
1:L:229:GLN:HG2	9:L:6318:HOH:O	2.13	0.48
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.48	0.48
2:M:269:LEU:HB3	9:M:9569:HOH:O	2.13	0.48
2:M:446:GLY:O	2:M:449:ILE:HG13	2.12	0.48
2:M:736:ASP:HA	2:M:744:ARG:NH1	2.28	0.48
3:N:70:GLY:C	3:N:71:LYS:HD2	2.38	0.48
3:N:422:ALA:H	3:N:427:VAL:HG11	1.77	0.48
3:N:493:ARG:NH2	3:N:1389:LEU:HD11	2.28	0.48
3:N:863:VAL:HG12	9:N:9938:HOH:O	2.12	0.48
3:N:983:LEU:HA	3:N:987:GLU:OE2	2.12	0.48
3:N:1049:SER:OG	3:N:1051:GLU:HG2	2.14	0.48
5:P:185:GLN:O	5:P:189:GLU:HG3	2.13	0.48
2:C:42:VAL:HG12	2:C:43:GLY:N	2.24	0.48
2:C:114:PHE:CE2	5:F:283:GLY:HA3	2.48	0.48
2:C:144:PRO:C	2:C:276:LYS:HZ2	2.21	0.48
2:C:167:LYS:C	2:C:169:GLY:H	2.21	0.48
2:C:722:ILE:HG22	9:C:2273:HOH:O	2.13	0.48
9:C:2198:HOH:O	5:F:350:LEU:HD21	2.12	0.48
3:D:618:LEU:HD21	9:D:2041:HOH:O	2.14	0.48
3:D:649:ALA:CB	3:D:691:LEU:HD21	2.43	0.48
3:D:754:PHE:O	3:D:757:ALA:HB3	2.13	0.48
3:D:786:ILE:HD13	3:D:1027:GLY:HA3	1.94	0.48
5:F:300:ASP:HB2	9:F:9768:HOH:O	2.13	0.48
5:F:371:LEU:HA	5:F:375:LEU:HB2	1.95	0.48
1:K:65:PHE:HE1	2:M:799:ILE:HD11	1.78	0.48
2:M:189:ARG:HH21	2:M:243:ARG:CZ	2.26	0.48
2:M:261:ILE:CG2	2:M:262:ALA:H	2.26	0.48
2:M:343:GLN:HB2	9:M:2031:HOH:O	2.13	0.48
2:M:549:PHE:HB3	2:M:552:HIS:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1065:ALA:HB1	2:M:1077:PRO:HG2	1.96	0.48
3:N:55:ASP:HA	3:N:82:LYS:HG2	1.94	0.48
3:N:133:ILE:HG13	3:N:456:MET:HE3	1.95	0.48
3:N:869:MET:HA	9:N:2163:HOH:O	2.14	0.48
3:N:959:GLU:HG3	3:N:1006:ALA:HB1	1.95	0.48
3:N:1087:ARG:HE	3:N:1238:MET:HB2	1.77	0.48
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.42	0.48
3:N:1276:GLU:HG3	3:N:1303:TYR:OH	2.13	0.48
1:B:1:MET:O	1:B:6:LEU:HD22	2.13	0.48
2:C:184:MET:HE2	2:C:185:LYS:N	2.28	0.48
2:C:328:LEU:HB2	2:C:433:THR:HG21	1.95	0.48
2:C:572:ILE:HD11	2:C:698:ASP:HB3	1.94	0.48
2:C:679:PHE:C	3:D:943:THR:HG22	2.38	0.48
2:C:807:ARG:HD2	9:C:2355:HOH:O	2.12	0.48
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.39	0.48
3:D:2:LYS:HB3	9:D:9972:HOH:O	2.12	0.48
3:D:767:HIS:C	3:D:768:ASN:HD22	2.22	0.48
3:D:882:PHE:HA	3:D:885:ILE:HD12	1.95	0.48
3:D:1058:ARG:HG3	3:D:1058:ARG:NH1	2.28	0.48
3:D:1117:TYR:HB3	9:D:9720:HOH:O	2.12	0.48
3:D:1462:LEU:O	3:D:1466:VAL:HG23	2.13	0.48
3:D:1463:LYS:HG2	9:D:2672:HOH:O	2.12	0.48
4:E:23:VAL:HG23	4:E:64:ALA:HB3	1.94	0.48
2:M:48:PHE:CD2	2:M:52:PHE:HE2	2.31	0.48
2:M:52:PHE:HE1	2:M:98:LEU:HD21	1.78	0.48
2:M:226:VAL:HG13	2:M:227:PHE:CD2	2.48	0.48
2:M:722:ILE:HG21	2:M:821:GLU:OE2	2.13	0.48
2:M:753:ASP:HA	3:N:679:ARG:HD2	1.95	0.48
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.48	0.48
3:N:416:ALA:H	3:N:417:PRO:CD	2.26	0.48
3:N:557:LEU:HD11	9:P:1239:HOH:O	2.13	0.48
3:N:829:VAL:HB	9:N:9280:HOH:O	2.12	0.48
3:N:1058:ARG:HG2	9:N:9994:HOH:O	2.12	0.48
3:N:1382:THR:HA	9:N:9517:HOH:O	2.12	0.48
4:O:50:THR:HG23	9:O:1048:HOH:O	2.13	0.48
5:P:155:THR:O	5:P:159:ILE:HG13	2.14	0.48
5:P:288:TYR:H	5:P:288:TYR:HD1	1.60	0.48
2:C:204:GLN:HA	9:C:9805:HOH:O	2.12	0.48
2:C:803:THR:HG22	2:C:825:VAL:HG22	1.95	0.48
3:D:984:THR:HG22	3:D:987:GLU:H	1.79	0.48
3:D:1413:THR:HA	9:D:9958:HOH:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:14:ASP:HA	9:E:9592:HOH:O	2.13	0.48
5:F:271:LEU:HD21	5:F:299:TRP:CZ3	2.48	0.48
1:K:227:ASN:H	1:K:227:ASN:ND2	2.12	0.48
2:M:149:THR:HG22	9:M:9475:HOH:O	2.12	0.48
2:M:165:LEU:HD22	9:M:9925:HOH:O	2.13	0.48
2:M:381:ALA:HB1	9:M:9341:HOH:O	2.12	0.48
2:M:455:LEU:HD22	2:M:459:ALA:CB	2.44	0.48
2:M:597:ALA:HA	9:M:9794:HOH:O	2.13	0.48
2:M:643:VAL:HG23	9:M:9275:HOH:O	2.12	0.48
3:N:200:ASP:HA	9:N:2149:HOH:O	2.13	0.48
3:N:481:MET:HE1	3:N:1388:ARG:CG	2.43	0.48
3:N:561:GLY:HA3	9:N:9263:HOH:O	2.13	0.48
3:N:860:LEU:HB2	3:N:861:GLN:HE22	1.77	0.48
3:N:1147:ARG:HD2	3:N:1188:VAL:HG21	1.95	0.48
3:N:1440:PHE:O	3:N:1443:THR:HG23	2.13	0.48
4:O:45:ARG:HA	9:O:6351:HOH:O	2.13	0.48
5:P:94:LEU:HB3	5:P:98:GLU:HB2	1.95	0.48
5:P:147:LEU:HD13	9:P:1942:HOH:O	2.13	0.48
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.43	0.48
2:C:683:ASN:OD1	2:C:872:ASN:HB2	2.14	0.48
3:D:107:ASP:O	3:D:108:VAL:C	2.56	0.48
3:D:149:LYS:HB3	9:D:2253:HOH:O	2.13	0.48
3:D:218:LYS:N	9:D:9726:HOH:O	2.45	0.48
3:D:396:VAL:HG13	3:D:447:VAL:HA	1.96	0.48
3:D:500:ARG:NH2	3:D:1388:ARG:NE	2.57	0.48
3:D:845:ASN:O	3:D:848:GLU:HB2	2.14	0.48
3:D:1038:LEU:HA	3:D:1061:PHE:HB2	1.95	0.48
3:D:1188:VAL:HG11	9:D:9650:HOH:O	2.14	0.48
3:D:1314:LYS:HD3	3:D:1314:LYS:H	1.77	0.48
3:D:1354:LYS:HA	9:D:2684:HOH:O	2.13	0.48
3:D:1435:LEU:HG	3:D:1467:ILE:HD12	1.95	0.48
2:M:142:ARG:HB2	2:M:163:ILE:HD13	1.95	0.48
2:M:490:GLU:O	2:M:493:ARG:HB2	2.14	0.48
2:M:978:ARG:HH11	2:M:978:ARG:HG3	1.79	0.48
2:M:1067:TYR:HE1	3:N:655:PRO:HG3	1.77	0.48
3:N:2:LYS:HG2	3:N:3:LYS:NZ	2.28	0.48
3:N:500:ARG:HH11	3:N:500:ARG:HG3	1.78	0.48
3:N:549:ASN:ND2	5:P:254:GLN:NE2	2.62	0.48
3:N:962:GLN:O	3:N:966:GLU:HG3	2.14	0.48
3:N:1047:LYS:HD2	3:N:1051:GLU:HG3	1.95	0.48
3:N:1412:LYS:C	3:N:1414:PRO:HD3	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:96:LEU:HD12	9:P:1515:HOH:O	2.12	0.48
1:A:65:PHE:CZ	2:C:830:LYS:HG3	2.49	0.48
1:A:143:ARG:CD	1:A:158:ILE:HG21	2.44	0.48
1:B:36:LEU:O	1:B:39:PRO:HD2	2.13	0.48
2:C:12:VAL:HA	9:C:2815:HOH:O	2.14	0.48
2:C:87:ASP:HB2	9:C:9712:HOH:O	2.13	0.48
2:C:244:PRO:HG2	2:C:246:ASP:OD1	2.13	0.48
2:C:341:THR:HG21	9:C:9696:HOH:O	2.13	0.48
2:C:404:LEU:HD12	2:C:407:LYS:HE2	1.95	0.48
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.39	0.48
3:D:699:VAL:H	3:D:756:GLN:HE22	1.62	0.48
3:D:800:LYS:HE2	3:D:830:ALA:CB	2.43	0.48
3:D:830:ALA:HB1	9:D:2375:HOH:O	2.14	0.48
3:D:864:VAL:HG12	3:D:865:THR:N	2.28	0.48
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.49	0.48
3:D:1114:THR:CG2	3:D:1195:GLN:HB2	2.44	0.48
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.96	0.48
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.44	0.48
4:E:40:LEU:HD12	4:E:40:LEU:O	2.13	0.48
5:F:236:SER:HA	9:F:9646:HOH:O	2.14	0.48
1:L:107:LYS:HB2	9:L:1363:HOH:O	2.14	0.48
1:L:182:GLU:HB2	9:L:8791:HOH:O	2.14	0.48
2:M:69:LEU:HB2	2:M:97:ARG:CB	2.44	0.48
2:M:300:ASP:OD2	2:M:303:PHE:HB2	2.13	0.48
2:M:333:ILE:HG22	2:M:465:GLY:HA2	1.95	0.48
2:M:334:ARG:HB3	9:M:9771:HOH:O	2.12	0.48
2:M:564:MET:HE2	2:M:997:LEU:HD11	1.95	0.48
2:M:712:ALA:HB3	2:M:821:GLU:HG3	1.95	0.48
3:N:87:ARG:HD2	3:N:524:LEU:HD23	1.96	0.48
3:N:166:GLN:HB3	3:N:395:VAL:CG2	2.43	0.48
3:N:588:GLY:HA2	9:N:9647:HOH:O	2.13	0.48
3:N:630:VAL:HG12	3:N:631:ILE:N	2.27	0.48
3:N:1211:MET:HE1	4:O:16:LYS:HD2	1.96	0.48
3:N:1243:THR:O	3:N:1269:LYS:HG3	2.12	0.48
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.14	0.48
3:N:1425:THR:HG22	3:N:1429:LEU:HD22	1.96	0.48
3:N:1449:GLU:HG3	9:N:9417:HOH:O	2.13	0.48
5:P:148:LYS:HB2	5:P:148:LYS:NZ	2.28	0.48
1:A:127:LEU:HD12	1:A:128:HIS:N	2.29	0.48
2:C:443:THR:HG21	3:D:1078:ARG:HE	1.78	0.48
2:C:958:THR:HG23	2:C:961:GLU:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:54:LYS:HD3	3:D:55:ASP:OD1	2.14	0.48
3:D:162:ARG:CZ	3:D:162:ARG:HB2	2.43	0.48
3:D:162:ARG:HB3	9:D:9697:HOH:O	2.13	0.48
3:D:556:LYS:HB3	9:F:9588:HOH:O	2.12	0.48
3:D:702:LEU:O	3:D:713:ILE:HA	2.14	0.48
3:D:966:GLU:HG3	3:D:969:ARG:NH2	2.28	0.48
3:D:1263:PHE:O	3:D:1424:VAL:HG23	2.13	0.48
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.13	0.48
5:F:393:THR:HG22	5:F:394:ARG:N	2.27	0.48
1:K:178:ALA:HB2	2:M:864:GLY:H	1.78	0.48
1:K:183:ASP:OD1	2:M:938:LYS:HE3	2.14	0.48
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.79	0.48
1:L:56:VAL:HB	1:L:165:ILE:HD11	1.94	0.48
2:M:334:ARG:HD2	9:M:9389:HOH:O	2.13	0.48
2:M:769:PRO:HD3	9:M:2572:HOH:O	2.13	0.48
2:M:929:ARG:NH2	9:M:2113:HOH:O	2.45	0.48
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.94	0.48
3:N:202:VAL:HG11	9:N:9932:HOH:O	2.13	0.48
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.96	0.48
3:N:502:PHE:CE2	3:N:1452:ILE:HG13	2.49	0.48
3:N:813:LEU:HD12	3:N:814:ALA:N	2.29	0.48
3:N:959:GLU:HB2	3:N:963:TYR:CE2	2.49	0.48
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.44	0.48
3:N:1376:MET:HB3	9:N:9377:HOH:O	2.13	0.48
5:P:158:GLU:HA	5:P:161:GLN:HG3	1.95	0.48
2:C:92:ALA:O	2:C:118:ILE:HD13	2.14	0.48
2:C:165:LEU:HD12	2:C:166:PRO:HA	1.95	0.48
2:C:309:TYR:HA	2:C:312:ALA:HB3	1.95	0.48
2:C:882:LEU:HD12	3:D:1061:PHE:HB3	1.95	0.48
2:C:1095:LEU:HD11	3:D:603:LEU:HB3	1.95	0.48
3:D:18:ILE:HD12	3:D:518:PRO:HG3	1.96	0.48
3:D:988:ARG:HB3	9:D:9919:HOH:O	2.14	0.48
3:D:994:GLN:HE21	3:D:998:GLU:CD	2.21	0.48
3:D:1339:LYS:HD2	9:D:2575:HOH:O	2.14	0.48
5:F:80:PRO:HA	5:F:83:GLN:HB3	1.94	0.48
5:F:295:MET:HA	5:F:295:MET:HE2	1.96	0.48
5:F:299:TRP:CD2	5:F:303:ARG:HD3	2.49	0.48
1:K:89:PHE:HZ	1:K:144:VAL:HG12	1.79	0.48
2:M:190:LYS:NZ	9:M:9816:HOH:O	2.47	0.48
2:M:983:ILE:HD12	2:M:987:ILE:HD12	1.94	0.48
2:M:1004:LYS:HE3	2:M:1027:PHE:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:137:PRO:HB2	9:N:9902:HOH:O	2.13	0.48
3:N:142:LEU:HA	9:N:9368:HOH:O	2.14	0.48
3:N:181:ASP:O	3:N:185:VAL:HG23	2.14	0.48
3:N:826:PRO:HD2	3:N:829:VAL:HG22	1.96	0.48
3:N:1046:GLN:N	9:N:9308:HOH:O	2.43	0.48
4:O:47:LYS:C	4:O:54:LEU:HD13	2.39	0.48
5:P:416:ARG:NH1	5:P:419:ARG:HD3	2.29	0.48
9:A:9662:HOH:O	2:C:645:VAL:HG21	2.14	0.48
1:B:47:SER:O	1:B:49:PRO:N	2.47	0.48
1:B:220:GLU:HB3	9:B:9783:HOH:O	2.14	0.48
2:C:64:LEU:HD13	2:C:359:MET:HE3	1.96	0.48
2:C:68:PHE:HZ	2:C:71:TYR:HD2	1.61	0.48
2:C:358:ARG:HH12	2:C:374:ASN:CG	2.21	0.48
2:C:369:PRO:HG2	2:C:370:ALA:H	1.78	0.48
2:C:751:PRO:HA	2:C:792:VAL:CG1	2.44	0.48
2:C:1072:LYS:HE2	9:C:2855:HOH:O	2.14	0.48
2:C:1081:VAL:HB	2:C:1086:ARG:HE	1.79	0.48
9:C:9793:HOH:O	3:D:21:TRP:HB3	2.13	0.48
3:D:179:VAL:HG21	9:D:9579:HOH:O	2.13	0.48
3:D:957:PRO:HG2	3:D:1007:VAL:CA	2.42	0.48
4:E:81:PRO:HA	9:E:9589:HOH:O	2.14	0.48
5:F:260:ILE:HD11	5:F:264:MET:HB3	1.96	0.48
1:L:156:HIS:CD2	1:L:158:ILE:HG12	2.49	0.48
2:M:292:ARG:HB2	2:M:299:LYS:NZ	2.28	0.48
2:M:532:MET:HE1	9:M:9849:HOH:O	2.13	0.48
2:M:892:LEU:HD21	2:M:967:PHE:CE1	2.48	0.48
3:N:19:ARG:HH21	3:N:94:GLU:CD	2.21	0.48
3:N:584:ASN:H	3:N:602:SER:HB3	1.79	0.48
3:N:834:THR:HG22	3:N:838:ARG:NE	2.28	0.48
3:N:1156:LEU:HD23	3:N:1182:GLU:OE1	2.13	0.48
3:N:1380:GLU:HG2	3:N:1381:VAL:N	2.28	0.48
3:N:1415:VAL:HG23	9:N:9894:HOH:O	2.14	0.48
2:C:13:ILE:HD13	2:C:483:VAL:HG11	1.95	0.47
2:C:56:GLU:HG2	9:C:2542:HOH:O	2.13	0.47
2:C:130:ASN:HB3	9:C:9665:HOH:O	2.12	0.47
2:C:143:SER:C	2:C:276:LYS:HZ3	2.22	0.47
2:C:607:ASP:C	2:C:609:ASN:N	2.71	0.47
2:C:762:LYS:HD3	2:C:771:GLU:OE2	2.13	0.47
2:C:1115:LEU:HD22	3:D:88:TYR:CD1	2.47	0.47
3:D:62:LYS:HD3	9:D:2796:HOH:O	2.13	0.47
3:D:86:ARG:HG2	3:D:523:ASP:OD1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:154:THR:HG22	9:D:9682:HOH:O	2.14	0.47
3:D:795:VAL:HG13	3:D:863:VAL:HG22	1.96	0.47
5:F:220:LEU:O	5:F:224:VAL:HG23	2.13	0.47
2:M:67:ASP:HA	9:M:9629:HOH:O	2.12	0.47
2:M:302:VAL:O	2:M:306:THR:HG23	2.14	0.47
2:M:397:GLU:H	2:M:633:GLN:HE22	1.62	0.47
2:M:859:PRO:O	2:M:867:VAL:HG22	2.14	0.47
2:M:1005:MET:HG2	9:M:9335:HOH:O	2.14	0.47
3:N:8:VAL:HG23	9:N:9608:HOH:O	2.13	0.47
3:N:71:LYS:HE3	9:N:2288:HOH:O	2.13	0.47
3:N:965:GLU:HB3	9:N:9892:HOH:O	2.14	0.47
3:N:984:THR:HG23	3:N:986:ARG:N	2.29	0.47
3:N:1147:ARG:NH2	9:N:9659:HOH:O	2.47	0.47
5:P:352:GLU:HG2	9:P:6518:HOH:O	2.14	0.47
5:P:400:ILE:HG12	9:P:1779:HOH:O	2.13	0.47
1:A:91:ASN:HA	9:A:9714:HOH:O	2.13	0.47
1:B:9:PRO:HB3	1:B:25:LEU:CG	2.44	0.47
2:C:18:LEU:HD12	2:C:18:LEU:N	2.28	0.47
2:C:91:GLN:HG2	2:C:119:PRO:HG3	1.96	0.47
3:D:119:SER:N	3:D:123:LEU:HD13	2.28	0.47
3:D:542:ASP:O	3:D:546:ARG:HG2	2.13	0.47
3:D:827:ILE:HG12	9:D:2351:HOH:O	2.14	0.47
3:D:1036:ARG:HG2	9:D:9667:HOH:O	2.15	0.47
3:D:1133:ARG:NH2	9:D:9997:HOH:O	2.47	0.47
3:D:1236:LEU:HD22	3:D:1355:VAL:HG12	1.96	0.47
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.13	0.47
3:D:1339:LYS:HB3	3:D:1343:ALA:CB	2.44	0.47
4:E:81:PRO:HD3	9:E:9619:HOH:O	2.13	0.47
4:E:96:GLU:HA	9:E:9628:HOH:O	2.12	0.47
5:F:270:LYS:HE3	9:F:9917:HOH:O	2.13	0.47
2:M:92:ALA:HB1	9:M:9468:HOH:O	2.13	0.47
2:M:141:HIS:HB2	2:M:418:LEU:HD12	1.94	0.47
2:M:324:ASP:HB3	2:M:327:HIS:CD2	2.40	0.47
2:M:503:LEU:HD12	2:M:505:GLY:O	2.14	0.47
2:M:644:VAL:HG22	2:M:647:GLN:NE2	2.29	0.47
2:M:679:PHE:CD1	2:M:870:ILE:HD13	2.48	0.47
2:M:879:ARG:HD2	2:M:879:ARG:H	1.78	0.47
2:M:1005:MET:HE1	3:N:645:PRO:CG	2.43	0.47
3:N:12:LEU:HB2	9:N:9257:HOH:O	2.13	0.47
3:N:496:LEU:HG	3:N:500:ARG:HG2	1.96	0.47
3:N:706:PRO:HG2	9:N:9369:HOH:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:907:GLU:O	3:N:911:LEU:HD13	2.13	0.47
3:N:920:LEU:HA	9:N:2152:HOH:O	2.13	0.47
3:N:1197:ARG:HD3	9:N:9581:HOH:O	2.13	0.47
3:N:1311:LEU:H	3:N:1311:LEU:CD2	2.24	0.47
3:N:1435:LEU:HB2	9:N:9646:HOH:O	2.15	0.47
5:P:131:VAL:O	5:P:135:ILE:HG12	2.14	0.47
1:A:64:GLU:OE2	1:A:76:VAL:HG13	2.14	0.47
2:C:724:ARG:HD3	2:C:740:GLU:HA	1.96	0.47
2:C:831:ARG:HH21	2:C:999:HIS:HB2	1.78	0.47
3:D:488:ARG:HB3	3:D:488:ARG:CZ	2.44	0.47
3:D:523:ASP:HB3	9:D:2189:HOH:O	2.13	0.47
3:D:894:LYS:O	3:D:898:GLU:HG3	2.13	0.47
3:D:983:LEU:HA	3:D:987:GLU:OE2	2.14	0.47
3:D:1092:GLY:O	3:D:1096:ARG:N	2.42	0.47
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.44	0.47
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.15	0.47
3:D:1493:LYS:HD3	9:D:9925:HOH:O	2.14	0.47
1:L:96:THR:HB	1:L:145:ASP:OD2	2.13	0.47
2:M:506:ASN:HB2	9:M:9830:HOH:O	2.13	0.47
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.28	0.47
2:M:926:PHE:O	2:M:929:ARG:HB2	2.14	0.47
3:N:76:CYS:HA	9:N:9585:HOH:O	2.14	0.47
3:N:107:ASP:O	3:N:108:VAL:C	2.57	0.47
3:N:441:ARG:HA	3:N:441:ARG:HE	1.79	0.47
3:N:799:LYS:HG2	9:N:9312:HOH:O	2.14	0.47
3:N:1191:PRO:HD3	3:N:1204:CYS:O	2.13	0.47
3:N:1253:THR:HG23	3:N:1258:ARG:HH11	1.79	0.47
3:N:1442:ASN:HD22	3:N:1442:ASN:C	2.22	0.47
5:P:257:THR:HB	5:P:314:PRO:HG3	1.97	0.47
1:A:140:MET:HA	9:A:9798:HOH:O	2.14	0.47
1:B:162:ILE:HG21	9:B:9631:HOH:O	2.14	0.47
2:C:34:VAL:HG22	9:C:9698:HOH:O	2.14	0.47
2:C:291:ALA:O	2:C:292:ARG:HB2	2.14	0.47
2:C:721:ARG:HD3	9:C:9781:HOH:O	2.14	0.47
2:C:971:LYS:NZ	9:C:9615:HOH:O	2.47	0.47
2:C:1105:LYS:O	2:C:1107:ASN:N	2.48	0.47
3:D:796:ARG:NH1	3:D:861:GLN:HB2	2.30	0.47
3:D:1044:LEU:HB2	9:D:2029:HOH:O	2.14	0.47
3:D:1307:LYS:HG2	9:D:2092:HOH:O	2.14	0.47
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.96	0.47
4:E:47:LYS:CA	4:E:54:LEU:HB3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:104:ARG:HG3	5:F:229:TYR:OH	2.15	0.47
5:F:215:GLU:O	5:F:218:GLN:HB3	2.15	0.47
5:F:325:LYS:HB2	9:F:9915:HOH:O	2.14	0.47
1:K:173:PRO:HB2	1:K:205:VAL:HG22	1.96	0.47
1:L:8:ALA:HA	9:L:1271:HOH:O	2.14	0.47
1:L:23:PHE:O	1:L:196:THR:HA	2.13	0.47
1:L:115:LEU:HD12	1:L:115:LEU:O	2.14	0.47
1:L:169:ALA:HA	9:L:1542:HOH:O	2.15	0.47
1:L:201:THR:HG22	1:L:203:GLY:H	1.79	0.47
2:M:254:VAL:HG13	2:M:258:TYR:CE1	2.48	0.47
2:M:313:LEU:HD13	2:M:321:GLU:O	2.15	0.47
2:M:325:ILE:HG21	9:M:2230:HOH:O	2.15	0.47
2:M:918:LEU:HD23	2:M:968:LEU:C	2.39	0.47
2:M:965:GLU:HG2	9:M:9258:HOH:O	2.15	0.47
9:M:9660:HOH:O	3:N:20:SER:HA	2.13	0.47
3:N:74:GLU:HG2	9:N:2213:HOH:O	2.12	0.47
3:N:400:VAL:C	3:N:402:PRO:HD3	2.38	0.47
3:N:523:ASP:O	3:N:526:PRO:HG3	2.14	0.47
3:N:845:ASN:H	3:N:848:GLU:HG3	1.78	0.47
3:N:1360:GLY:HA3	9:N:9449:HOH:O	2.14	0.47
4:O:47:LYS:O	4:O:54:LEU:HD13	2.14	0.47
5:P:209:PHE:CZ	5:P:213:ILE:HD11	2.49	0.47
5:P:353:GLU:CG	5:P:417:LYS:HB3	2.44	0.47
1:A:193:ASP:OD2	2:C:938:LYS:HD2	2.14	0.47
1:B:105:GLY:HA3	9:B:9797:HOH:O	2.14	0.47
1:B:206:THR:HG22	1:B:209:GLU:HG3	1.95	0.47
9:C:9757:HOH:O	3:D:948:THR:HG21	2.13	0.47
3:D:79:GLU:HG2	3:D:80:VAL:N	2.29	0.47
3:D:928:ALA:O	3:D:931:LEU:HB2	2.14	0.47
4:E:82:GLU:HG2	4:E:83:ASP:H	1.80	0.47
5:F:421:PHE:C	5:F:423:ASP:N	2.72	0.47
1:L:133:GLU:HG3	1:L:134:GLU:H	1.80	0.47
2:M:164:PRO:HA	2:M:266:ARG:CZ	2.44	0.47
2:M:164:PRO:CA	2:M:266:ARG:HH12	2.23	0.47
2:M:926:PHE:HE1	9:M:2113:HOH:O	1.97	0.47
3:N:396:VAL:HG22	3:N:447:VAL:HB	1.97	0.47
3:N:704:ARG:HG2	9:N:9228:HOH:O	2.13	0.47
3:N:734:GLU:HB3	9:N:9236:HOH:O	2.14	0.47
3:N:809:PRO:O	3:N:812:ALA:HB3	2.15	0.47
3:N:969:ARG:HD3	9:N:9710:HOH:O	2.13	0.47
3:N:1046:GLN:HG2	9:N:9308:HOH:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1086:LEU:HD22	9:N:9961:HOH:O	2.14	0.47
4:O:41:GLU:HB3	4:O:42:PRO:HD3	1.96	0.47
5:P:335:ASP:CG	5:P:338:LEU:HD12	2.39	0.47
5:P:373:LYS:HA	5:P:378:GLY:C	2.39	0.47
1:A:108:GLU:O	1:A:110:LYS:HG3	2.15	0.47
1:A:228:PRO:HG3	9:A:9640:HOH:O	2.14	0.47
2:C:507:ARG:HG2	2:C:508:ILE:O	2.14	0.47
2:C:551:GLU:HB3	2:C:906:PHE:CD2	2.49	0.47
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.97	0.47
3:D:1194:CYS:HB3	3:D:1373:ARG:NH2	2.29	0.47
3:D:1210:SER:HA	9:D:2674:HOH:O	2.13	0.47
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.96	0.47
3:D:1263:PHE:CE1	3:D:1352:ILE:HD13	2.50	0.47
3:D:1353:GLN:O	3:D:1357:ARG:HD2	2.14	0.47
3:D:1487:VAL:HG12	3:D:1488:ASP:H	1.78	0.47
2:M:91:GLN:HA	2:M:119:PRO:HA	1.95	0.47
2:M:298:PHE:HB2	9:M:2564:HOH:O	2.13	0.47
2:M:344:PHE:O	2:M:348:LEU:HD13	2.14	0.47
2:M:444:PRO:HG2	2:M:452:ILE:CD1	2.45	0.47
2:M:910:LYS:HB2	9:M:2099:HOH:O	2.14	0.47
2:M:939:ARG:HD2	9:M:9308:HOH:O	2.14	0.47
3:N:62:LYS:HE2	9:N:2079:HOH:O	2.15	0.47
3:N:98:PRO:HG3	3:N:515:GLU:CB	2.37	0.47
3:N:123:LEU:HD11	3:N:152:LEU:CD2	2.45	0.47
3:N:463:GLN:HB3	9:N:9580:HOH:O	2.14	0.47
3:N:836:VAL:HG12	9:N:9618:HOH:O	2.14	0.47
3:N:1161:GLU:HG2	3:N:1164:ARG:HB2	1.95	0.47
3:N:1274:ILE:HB	3:N:1322:GLY:HA2	1.97	0.47
3:N:1396:GLU:HA	3:N:1399:ASP:OD2	2.14	0.47
4:O:30:LEU:O	4:O:35:PHE:HA	2.15	0.47
5:P:161:GLN:HA	5:P:164:LYS:HD2	1.96	0.47
5:P:402:ASN:O	5:P:406:ARG:HD2	2.15	0.47
1:A:74:ASP:O	1:A:78:ILE:HG13	2.15	0.47
1:A:176:ARG:HA	9:A:9583:HOH:O	2.14	0.47
1:B:41:ARG:HG3	1:B:177:VAL:HB	1.95	0.47
1:B:109:VAL:HG23	1:B:132:LEU:HD13	1.96	0.47
2:C:73:LEU:HD12	2:C:73:LEU:N	2.29	0.47
2:C:73:LEU:HD11	2:C:94:LEU:HD13	1.96	0.47
2:C:250:ARG:HH21	2:C:254:VAL:HB	1.79	0.47
2:C:253:ALA:O	2:C:256:TYR:HB2	2.15	0.47
2:C:334:ARG:HA	2:C:338:GLU:OE2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:346:VAL:O	2:C:350:ARG:HG3	2.15	0.47
2:C:408:ARG:HD2	2:C:542:VAL:CG2	2.44	0.47
2:C:458:TYR:O	2:C:460:ARG:HD2	2.14	0.47
2:C:524:VAL:HG22	2:C:528:GLU:HB2	1.96	0.47
2:C:603:VAL:O	2:C:646:GLY:HA2	2.15	0.47
2:C:953:VAL:HB	2:C:962:GLN:CG	2.45	0.47
2:C:987:ILE:HD11	3:D:946:GLY:HA2	1.96	0.47
2:C:988:VAL:N	9:C:9757:HOH:O	2.46	0.47
2:C:1005:MET:SD	3:D:648:MET:HB2	2.55	0.47
2:C:1072:LYS:HD3	9:C:9670:HOH:O	2.14	0.47
3:D:50:PHE:HB3	3:D:522:PRO:HG2	1.97	0.47
3:D:60:CYS:SG	3:D:62:LYS:HG2	2.54	0.47
3:D:393:ILE:H	3:D:393:ILE:HG13	1.53	0.47
3:D:523:ASP:O	3:D:526:PRO:HG3	2.14	0.47
3:D:579:ASP:HB2	9:D:9699:HOH:O	2.14	0.47
3:D:613:ARG:HA	9:D:9688:HOH:O	2.15	0.47
3:D:646:LYS:HG3	3:D:647:ARG:N	2.29	0.47
3:D:804:LEU:HD21	3:D:829:VAL:CG2	2.42	0.47
3:D:838:ARG:HH12	3:D:863:VAL:CG1	2.27	0.47
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.49	0.47
3:D:893:GLU:O	3:D:896:ALA:HB3	2.15	0.47
3:D:1084:THR:HG23	9:D:2894:HOH:O	2.13	0.47
3:D:1271:LYS:HD2	3:D:1334:GLN:OE1	2.14	0.47
4:E:32:ARG:C	4:E:34:GLY:H	2.23	0.47
5:F:209:PHE:O	5:F:213:ILE:HG13	2.14	0.47
5:F:226:LYS:HB2	9:F:9706:HOH:O	2.15	0.47
5:F:335:ASP:HB2	9:F:9582:HOH:O	2.15	0.47
1:K:48:ILE:HA	1:K:49:PRO:HD3	1.75	0.47
1:K:108:GLU:O	1:K:110:LYS:HG3	2.14	0.47
2:M:66:LEU:CD1	2:M:98:LEU:HD22	2.45	0.47
2:M:129:ILE:HG12	2:M:134:ARG:HD2	1.95	0.47
2:M:261:ILE:HG22	2:M:262:ALA:N	2.29	0.47
2:M:432:ARG:H	2:M:432:ARG:HD3	1.80	0.47
2:M:586:ARG:HB3	2:M:586:ARG:HH11	1.79	0.47
2:M:799:ILE:HD13	2:M:799:ILE:N	2.30	0.47
3:N:93:ILE:HG12	3:N:548:ILE:HD11	1.97	0.47
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.95	0.47
3:N:210:ARG:HB3	9:N:9661:HOH:O	2.15	0.47
3:N:400:VAL:HA	3:N:442:ASN:O	2.14	0.47
3:N:567:ILE:C	3:N:571:LYS:HE2	2.39	0.47
3:N:754:PHE:O	3:N:757:ALA:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:785:ILE:H	3:N:785:ILE:HD12	1.80	0.47
3:N:840:LYS:HA	9:N:9609:HOH:O	2.14	0.47
3:N:998:GLU:O	3:N:1002:LYS:HG3	2.13	0.47
3:N:1182:GLU:HG3	9:N:9246:HOH:O	2.14	0.47
3:N:1189:ARG:HA	3:N:1189:ARG:HH11	1.80	0.47
3:N:1310:ARG:O	3:N:1327:ARG:HB2	2.15	0.47
4:O:37:ASN:ND2	4:O:89:MET:HE2	2.29	0.47
4:O:54:LEU:HG	4:O:58:PRO:CG	2.45	0.47
5:P:182:ALA:O	5:P:185:GLN:HB2	2.14	0.47
5:P:257:THR:CB	5:P:314:PRO:HG3	2.45	0.47
5:P:288:TYR:HA	5:P:291:ILE:CG2	2.45	0.47
5:P:396:ARG:HD2	9:P:6184:HOH:O	2.14	0.47
5:P:405:LEU:HD23	9:P:3207:HOH:O	2.13	0.47
5:P:416:ARG:HH11	5:P:419:ARG:HB2	1.80	0.47
1:A:106:PRO:HG3	9:A:9569:HOH:O	2.15	0.47
1:B:192:LEU:HG	9:B:9584:HOH:O	2.15	0.47
2:C:651:LYS:HE3	9:C:2035:HOH:O	2.15	0.47
2:C:749:VAL:HA	9:C:9864:HOH:O	2.15	0.47
2:C:877:PRO:HD3	3:D:949:ILE:CD1	2.44	0.47
2:C:916:GLU:O	2:C:919:ALA:HB3	2.15	0.47
3:D:50:PHE:O	3:D:86:ARG:HA	2.14	0.47
3:D:102:ILE:HD12	3:D:579:ASP:HB3	1.96	0.47
3:D:447:VAL:HG23	9:D:9599:HOH:O	2.14	0.47
3:D:493:ARG:HD3	3:D:1390:LEU:HD21	1.97	0.47
3:D:644:LEU:HD12	3:D:644:LEU:O	2.15	0.47
3:D:959:GLU:HB2	3:D:963:TYR:CE1	2.49	0.47
3:D:1448:THR:O	3:D:1451:ALA:HB3	2.15	0.47
4:E:48:MET:CB	4:E:54:LEU:HB2	2.39	0.47
5:F:245:GLN:HA	9:F:9828:HOH:O	2.13	0.47
5:F:276:ARG:HB3	9:F:9760:HOH:O	2.15	0.47
5:F:369:LEU:O	5:F:373:LYS:HB2	2.14	0.47
5:F:406:ARG:HA	5:F:409:LYS:CD	2.45	0.47
1:K:45:LEU:HD21	1:K:177:VAL:HG23	1.97	0.47
2:M:47:ALA:HA	2:M:50:GLU:OE2	2.14	0.47
2:M:283:ILE:HG12	9:M:9557:HOH:O	2.15	0.47
2:M:625:LEU:HB3	2:M:639:GLN:HB2	1.96	0.47
2:M:1074:GLU:HG3	9:M:2120:HOH:O	2.13	0.47
3:N:17:LYS:HG2	3:N:21:TRP:CE2	2.50	0.47
3:N:445:ARG:HH11	3:N:445:ARG:HG2	1.80	0.47
3:N:704:ARG:HD3	9:N:9228:HOH:O	2.14	0.47
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	1.97	0.47
4:O:9:LEU:HB3	4:O:19:LEU:HD21	1.96	0.47
5:P:284:ARG:HB3	9:P:4605:HOH:O	2.15	0.47
2:C:100:LEU:CD2	2:C:368:THR:HA	2.44	0.47
2:C:1016:ILE:HD13	2:C:1016:ILE:N	2.29	0.47
2:C:1039:ALA:CB	3:D:713:ILE:HD12	2.45	0.47
2:C:1085:PHE:O	2:C:1088:LEU:HB3	2.15	0.47
3:D:475:LYS:O	3:D:478:LEU:HB2	2.15	0.47
3:D:601:ARG:HH22	3:D:613:ARG:HE	1.63	0.47
3:D:1045:MET:HA	9:D:2022:HOH:O	2.14	0.47
3:D:1217:ILE:HD13	3:D:1480:PHE:CE2	2.49	0.47
5:F:397:ILE:HG21	9:F:9936:HOH:O	2.14	0.47
1:K:152:PRO:HD2	1:K:155:LYS:HB2	1.97	0.47
2:M:300:ASP:C	2:M:302:VAL:H	2.22	0.47
2:M:342:ASP:O	2:M:346:VAL:HG23	2.15	0.47
2:M:346:VAL:HG12	2:M:350:ARG:NE	2.29	0.47
2:M:701:THR:HG22	2:M:832:LYS:HA	1.97	0.47
2:M:782:ALA:HB1	9:M:9603:HOH:O	2.14	0.47
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	1.98	0.47
9:M:9896:HOH:O	5:P:373:LYS:HB3	2.14	0.47
3:N:607:LEU:HA	9:N:2546:HOH:O	2.15	0.47
3:N:974:ILE:HG12	3:N:991:GLN:HE21	1.79	0.47
3:N:1033:GLN:HA	9:N:2161:HOH:O	2.14	0.47
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.15	0.47
3:N:1148:VAL:O	3:N:1189:ARG:HG2	2.15	0.47
5:P:191:ASN:HA	9:P:1478:HOH:O	2.15	0.47
2:C:253:ALA:HB3	9:C:2420:HOH:O	2.14	0.47
2:C:913:GLU:O	2:C:916:GLU:HB3	2.15	0.47
3:D:54:LYS:HA	5:F:337:HIS:HE1	1.80	0.47
3:D:445:ARG:HG2	3:D:445:ARG:NH1	2.30	0.47
3:D:1194:CYS:SG	3:D:1200:VAL:HA	2.55	0.47
3:D:1339:LYS:HG2	3:D:1343:ALA:HB2	1.97	0.47
5:F:142:ARG:HA	9:F:9681:HOH:O	2.15	0.47
1:K:138:LEU:HB2	9:K:8021:HOH:O	2.15	0.47
1:K:184:THR:HG22	1:K:192:LEU:O	2.15	0.47
1:L:90:LEU:HD21	9:L:3389:HOH:O	2.15	0.47
2:M:152:PRO:HD2	9:M:9283:HOH:O	2.14	0.47
2:M:310:LEU:HD11	9:M:2059:HOH:O	2.15	0.47
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.44	0.47
2:M:871:LEU:HD12	2:M:872:ASN:O	2.14	0.47
2:M:1083:GLU:O	2:M:1087:VAL:HG23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1134:LEU:HB2	9:N:2308:HOH:O	2.15	0.47
5:P:99:GLU:OE1	5:P:235:PHE:HB3	2.15	0.47
1:B:173:PRO:HB2	1:B:205:VAL:HG22	1.98	0.46
2:C:41:ASN:H	2:C:41:ASN:ND2	2.12	0.46
2:C:89:THR:HG22	2:C:91:GLN:HG3	1.97	0.46
2:C:942:GLU:HG3	9:C:9752:HOH:O	2.14	0.46
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.45	0.46
3:D:865:THR:HG22	9:D:9766:HOH:O	2.14	0.46
3:D:992:ILE:HA	9:D:2129:HOH:O	2.14	0.46
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.96	0.46
5:F:166:LEU:HD13	5:F:170:HIS:CB	2.44	0.46
1:K:54:THR:HG21	1:K:145:ASP:OD1	2.15	0.46
1:L:108:GLU:O	1:L:110:LYS:HG3	2.15	0.46
2:M:165:LEU:HD21	2:M:334:ARG:HH21	1.79	0.46
2:M:485:TYR:HD2	9:M:9411:HOH:O	1.97	0.46
2:M:600:ASP:HA	9:M:2442:HOH:O	2.14	0.46
3:N:566:ILE:CD1	5:P:217:ASN:HD22	2.28	0.46
3:N:686:GLU:HG2	9:N:2678:HOH:O	2.14	0.46
3:N:796:ARG:NE	3:N:828:LYS:HZ3	2.13	0.46
3:N:1052:THR:HG22	9:N:9337:HOH:O	2.15	0.46
3:N:1188:VAL:HG22	3:N:1189:ARG:O	2.15	0.46
3:N:1219:GLU:HG3	4:O:17:TYR:OH	2.15	0.46
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.80	0.46
4:O:39:VAL:HG12	9:O:1697:HOH:O	2.14	0.46
5:P:106:VAL:HA	9:P:1566:HOH:O	2.15	0.46
5:P:359:SER:HA	9:P:1489:HOH:O	2.15	0.46
1:A:50:GLY:N	9:A:9574:HOH:O	2.47	0.46
1:A:191:ASP:O	1:A:192:LEU:HD23	2.16	0.46
1:B:49:PRO:HA	1:B:148:VAL:HG12	1.98	0.46
2:C:2:GLU:HG2	9:C:2528:HOH:O	2.16	0.46
2:C:6:PHE:CE1	2:C:909:ALA:HB2	2.51	0.46
2:C:217:LEU:HD23	9:C:9668:HOH:O	2.15	0.46
2:C:369:PRO:HG2	9:C:2433:HOH:O	2.15	0.46
2:C:517:ARG:HB2	9:C:9578:HOH:O	2.15	0.46
2:C:591:SER:HB2	9:C:9610:HOH:O	2.15	0.46
2:C:678:PRO:HG3	2:C:873:PRO:HD2	1.96	0.46
2:C:841:ASN:C	2:C:841:ASN:ND2	2.71	0.46
2:C:899:GLN:OE1	2:C:901:TYR:HE2	1.98	0.46
2:C:1036:GLU:CD	2:C:1036:GLU:N	2.73	0.46
9:C:9869:HOH:O	3:D:1068:LEU:HD13	2.15	0.46
3:D:207:PHE:HB3	3:D:395:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:458:ALA:HB2	9:D:2106:HOH:O	2.15	0.46
3:D:539:ASP:HB3	3:D:600:LEU:HD12	1.97	0.46
3:D:542:ASP:HA	3:D:545:ARG:HE	1.80	0.46
3:D:702:LEU:HD13	3:D:716:PHE:HD1	1.81	0.46
3:D:754:PHE:CE2	3:D:1476:THR:HG21	2.49	0.46
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.40	0.46
3:D:1165:TYR:HB2	9:D:9690:HOH:O	2.15	0.46
4:E:76:GLY:N	4:E:79:LEU:HD22	2.29	0.46
5:F:287:THR:CG2	5:F:289:GLU:HB2	2.41	0.46
5:F:365:GLU:O	5:F:369:LEU:HD12	2.15	0.46
2:M:19:THR:HG22	2:M:23:VAL:HG23	1.97	0.46
2:M:151:ASP:HB2	2:M:157:ARG:O	2.15	0.46
2:M:278:GLU:HG3	2:M:283:ILE:O	2.16	0.46
2:M:405:ARG:HD2	2:M:442:GLU:OE2	2.15	0.46
3:N:36:THR:O	3:N:38:LYS:N	2.48	0.46
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.46	0.46
4:O:39:VAL:HA	9:O:1697:HOH:O	2.15	0.46
5:P:166:LEU:HD22	5:P:170:HIS:HB2	1.98	0.46
5:P:192:LEU:HD22	9:P:4506:HOH:O	2.15	0.46
5:P:264:MET:O	5:P:268:ILE:HG13	2.16	0.46
5:P:315:VAL:HG12	5:P:316:SER:H	1.80	0.46
1:B:115:LEU:HD12	1:B:115:LEU:O	2.14	0.46
1:B:213:GLN:O	1:B:217:ILE:HG13	2.15	0.46
2:C:35:PRO:HD2	2:C:38:LYS:CE	2.46	0.46
2:C:91:GLN:HA	2:C:119:PRO:HA	1.96	0.46
2:C:130:ASN:CG	2:C:383:ARG:HH22	2.24	0.46
2:C:230:ARG:HB2	2:C:233:GLU:HB3	1.97	0.46
2:C:246:ASP:HB2	9:C:2442:HOH:O	2.15	0.46
2:C:422:ARG:HD3	9:C:2680:HOH:O	2.16	0.46
2:C:657:ASP:OD1	2:C:661:SER:HB2	2.14	0.46
2:C:737:LEU:HD11	2:C:754:ILE:HG21	1.95	0.46
2:C:861:LEU:CD2	2:C:863:ASP:H	2.28	0.46
2:C:933:GLY:HA2	9:C:2021:HOH:O	2.16	0.46
2:C:1102:LEU:N	3:D:7:LYS:O	2.48	0.46
3:D:172:PRO:HB3	3:D:178:LEU:HB3	1.98	0.46
3:D:206:ARG:HA	3:D:206:ARG:HH11	1.80	0.46
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.96	0.46
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.15	0.46
5:F:147:LEU:HD23	9:F:9698:HOH:O	2.15	0.46
1:K:5:LYS:HZ1	1:L:224:TYR:HE1	1.63	0.46
1:K:29:GLU:HB3	9:K:4304:HOH:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:162:ILE:HG13	1:K:163:ASN:ND2	2.30	0.46
2:M:127:PHE:O	2:M:133:ASP:HA	2.16	0.46
2:M:725:ASP:O	2:M:727:PRO:HD3	2.15	0.46
2:M:773:LEU:HD11	5:P:405:LEU:HD13	1.97	0.46
2:M:950:LEU:HD12	2:M:952:LEU:HD21	1.97	0.46
3:N:161:LEU:C	3:N:449:SER:HB2	2.41	0.46
3:N:168:THR:OG1	3:N:393:ILE:HD12	2.15	0.46
3:N:408:GLU:HG2	9:N:9546:HOH:O	2.15	0.46
3:N:433:GLY:HA3	3:N:450:TYR:HA	1.96	0.46
3:N:686:GLU:HG3	9:N:2781:HOH:O	2.14	0.46
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.96	0.46
3:N:829:VAL:HG22	9:N:9736:HOH:O	2.15	0.46
3:N:907:GLU:CD	3:N:909:ASN:HB2	2.40	0.46
3:N:1031:ASN:OD1	3:N:1033:GLN:HB2	2.15	0.46
3:N:1340:GLY:O	3:N:1344:VAL:HG23	2.15	0.46
5:P:109:GLY:HA3	9:P:1566:HOH:O	2.14	0.46
5:P:351:SER:HB2	9:P:6220:HOH:O	2.15	0.46
1:A:197:LEU:HD23	1:A:197:LEU:N	2.27	0.46
1:A:217:ILE:HB	9:A:9598:HOH:O	2.15	0.46
2:C:601:GLY:HA3	2:C:615:TYR:HA	1.98	0.46
2:C:922:PHE:HD2	9:C:2177:HOH:O	1.99	0.46
3:D:13:ALA:O	3:D:511:TRP:HB3	2.15	0.46
3:D:739:ASP:CG	3:D:741:ASP:OD1	2.58	0.46
3:D:919:PHE:HA	3:D:927:THR:OG1	2.16	0.46
3:D:1209:LEU:HD13	3:D:1219:GLU:OE2	2.15	0.46
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.45	0.46
3:D:1379:VAL:O	3:D:1392:GLY:HA2	2.16	0.46
1:L:75:VAL:O	1:L:79:ILE:HG23	2.15	0.46
2:M:480:THR:HG22	2:M:482:GLU:N	2.30	0.46
2:M:546:LEU:HA	2:M:581:THR:OG1	2.15	0.46
2:M:560:MET:O	2:M:564:MET:HB2	2.15	0.46
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.46	0.46
3:N:806:PHE:HE1	3:N:813:LEU:HB3	1.80	0.46
3:N:827:ILE:O	3:N:837:GLY:HA3	2.15	0.46
3:N:842:VAL:HG23	9:N:9393:HOH:O	2.14	0.46
3:N:1406:ARG:O	3:N:1406:ARG:HG2	2.15	0.46
4:O:40:LEU:CG	4:O:67:GLU:HG2	2.45	0.46
4:O:41:GLU:H	4:O:42:PRO:HD2	1.80	0.46
4:O:41:GLU:CA	4:O:45:ARG:HG3	2.45	0.46
5:P:231:ARG:HA	9:P:2972:HOH:O	2.15	0.46
5:P:287:THR:C	5:P:289:GLU:H	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:57:TYR:CE1	1:A:163:ASN:HB2	2.45	0.46
2:C:129:ILE:HD12	2:C:129:ILE:N	2.31	0.46
2:C:498:GLN:HG3	9:C:9570:HOH:O	2.16	0.46
2:C:524:VAL:HG22	2:C:525:SER:H	1.81	0.46
2:C:1036:GLU:HA	3:D:707:THR:HG21	1.97	0.46
2:C:1059:ASP:N	9:C:9720:HOH:O	2.49	0.46
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.20	0.46
3:D:431:VAL:HG12	9:D:2014:HOH:O	2.15	0.46
3:D:446:VAL:HG11	9:D:9698:HOH:O	2.15	0.46
3:D:523:ASP:OD1	3:D:523:ASP:N	2.47	0.46
3:D:534:ARG:HG3	9:D:2518:HOH:O	2.15	0.46
3:D:1351:GLU:O	3:D:1354:LYS:HB2	2.16	0.46
1:K:184:THR:O	1:K:192:LEU:HD12	2.15	0.46
2:M:504:GLU:HA	9:M:9395:HOH:O	2.16	0.46
2:M:544:THR:HA	2:M:562:SER:OG	2.15	0.46
2:M:564:MET:HG2	2:M:840:ALA:CB	2.46	0.46
2:M:841:ASN:ND2	2:M:845:ASN:N	2.64	0.46
3:N:65:ARG:HG2	5:P:375:LEU:HA	1.98	0.46
3:N:772:PRO:HG3	9:N:9333:HOH:O	2.15	0.46
3:N:1044:LEU:CD2	3:N:1056:PRO:HG3	2.46	0.46
3:N:1192:LEU:HD22	3:N:1345:GLU:OE2	2.14	0.46
4:O:86:GLN:O	4:O:90:GLU:HG3	2.15	0.46
5:P:416:ARG:HA	9:P:4146:HOH:O	2.15	0.46
2:C:89:THR:O	2:C:91:GLN:HG3	2.14	0.46
2:C:187:ASN:HB3	9:C:9640:HOH:O	2.15	0.46
2:C:250:ARG:HD2	9:C:9629:HOH:O	2.15	0.46
2:C:328:LEU:HD22	2:C:433:THR:C	2.41	0.46
2:C:358:ARG:HB3	2:C:371:LYS:O	2.16	0.46
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.80	0.46
2:C:751:PRO:HB2	3:D:680:GLN:CG	2.44	0.46
2:C:854:PRO:C	2:C:856:GLU:N	2.74	0.46
3:D:543:LEU:HD13	3:D:581:LEU:HA	1.97	0.46
3:D:550:ARG:HG3	3:D:550:ARG:NH1	2.30	0.46
3:D:687:VAL:O	3:D:690:ALA:HB3	2.15	0.46
3:D:704:ARG:CD	3:D:705:ALA:H	2.25	0.46
3:D:1051:GLU:HB3	9:D:2777:HOH:O	2.15	0.46
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.80	0.46
4:E:39:VAL:HA	9:E:9571:HOH:O	2.14	0.46
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.80	0.46
1:K:115:LEU:HD12	1:K:115:LEU:O	2.15	0.46
1:L:134:GLU:HG2	9:L:6529:HOH:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:145:GLY:H	2:M:163:ILE:CG2	2.28	0.46
2:M:207:LEU:O	2:M:211:LEU:HB3	2.16	0.46
2:M:288:ARG:HG3	2:M:288:ARG:NH1	2.26	0.46
2:M:578:VAL:HG21	2:M:991:GLN:O	2.16	0.46
2:M:630:ARG:HH11	2:M:630:ARG:HG3	1.80	0.46
3:N:414:ARG:HA	9:N:9486:HOH:O	2.16	0.46
3:N:570:GLU:HB2	5:P:214:GLN:NE2	2.30	0.46
3:N:1158:VAL:HG12	3:N:1159:ARG:N	2.31	0.46
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	1.97	0.46
3:N:1442:ASN:HD22	3:N:1443:THR:N	2.13	0.46
4:O:13:VAL:HG11	4:O:19:LEU:HB2	1.98	0.46
5:P:94:LEU:HB3	5:P:98:GLU:H	1.81	0.46
5:P:349:LEU:HD23	9:P:2092:HOH:O	2.16	0.46
5:P:367:MET:HA	5:P:370:LYS:HG2	1.98	0.46
2:C:141:HIS:HE1	2:C:332:ARG:HE	1.62	0.46
2:C:148:PHE:HE1	2:C:281:LEU:HD22	1.80	0.46
2:C:464:LEU:HB3	9:C:2642:HOH:O	2.16	0.46
2:C:671:ASN:HD22	2:C:993:PHE:HD2	1.64	0.46
9:C:9607:HOH:O	3:D:18:ILE:HD11	2.14	0.46
3:D:32:ILE:HG13	3:D:45:PHE:HD2	1.80	0.46
3:D:166:GLN:HB3	3:D:395:VAL:CG2	2.46	0.46
3:D:202:VAL:O	3:D:204:LEU:HG	2.15	0.46
3:D:1294:VAL:HG13	9:D:2676:HOH:O	2.15	0.46
3:D:1354:LYS:HD3	9:D:2684:HOH:O	2.15	0.46
3:D:1384:PRO:HG3	3:D:1389:LEU:N	2.31	0.46
9:D:9992:HOH:O	5:F:168:LYS:HG2	2.15	0.46
1:K:41:ARG:NH1	1:K:177:VAL:HB	2.29	0.46
1:L:83:LYS:HG2	9:L:4413:HOH:O	2.15	0.46
2:M:265:ARG:HD2	9:M:2426:HOH:O	2.15	0.46
2:M:281:LEU:HB2	2:M:309:TYR:CD1	2.51	0.46
2:M:564:MET:CE	2:M:846:LYS:HE2	2.45	0.46
2:M:724:ARG:HB2	2:M:741:GLY:N	2.31	0.46
2:M:770:GLU:HA	2:M:770:GLU:OE2	2.15	0.46
2:M:1036:GLU:HG3	3:N:707:THR:OG1	2.15	0.46
2:M:1104:GLU:O	3:N:7:LYS:HE2	2.15	0.46
3:N:127:LEU:HD12	3:N:128:TYR:N	2.30	0.46
3:N:649:ALA:HB3	3:N:691:LEU:HD21	1.97	0.46
3:N:702:LEU:O	3:N:713:ILE:HA	2.15	0.46
3:N:770:LEU:HD23	3:N:777:PRO:HA	1.98	0.46
3:N:861:GLN:HB2	9:N:9290:HOH:O	2.14	0.46
3:N:1236:LEU:HA	3:N:1359:GLN:OE1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:94:PRO:HA	9:O:9005:HOH:O	2.15	0.46
1:B:95:GLN:HB3	9:B:9815:HOH:O	2.15	0.46
2:C:405:ARG:HH22	2:C:409:ARG:HH21	1.63	0.46
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.17	0.46
2:C:455:LEU:HD22	2:C:459:ALA:CB	2.46	0.46
2:C:626:ARG:NH1	2:C:637:LEU:HD12	2.30	0.46
2:C:636:ALA:C	2:C:637:LEU:HD23	2.41	0.46
2:C:723:THR:HA	9:C:9700:HOH:O	2.15	0.46
2:C:756:VAL:CG2	2:C:823:VAL:HG11	2.45	0.46
2:C:774:LEU:HB2	9:C:2198:HOH:O	2.15	0.46
2:C:870:ILE:N	2:C:870:ILE:HD12	2.31	0.46
2:C:897:LEU:HD23	2:C:899:GLN:CD	2.41	0.46
2:C:1059:ASP:OD1	2:C:1080:SER:HB2	2.16	0.46
2:C:1102:LEU:CD1	3:D:9:ARG:HG2	2.45	0.46
3:D:438:ASP:OD2	3:D:440:VAL:HB	2.16	0.46
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.51	0.46
3:D:814:ALA:O	3:D:818:ARG:HG3	2.16	0.46
3:D:1026:SER:HB2	9:D:9566:HOH:O	2.15	0.46
3:D:1144:LEU:HD11	3:D:1186:VAL:HG21	1.96	0.46
4:E:51:LEU:HD22	9:E:9663:HOH:O	2.16	0.46
1:L:182:GLU:O	1:L:194:LYS:HB3	2.16	0.46
1:L:185:ARG:HH12	3:N:692:GLU:HG3	1.79	0.46
2:M:287:GLY:O	2:M:288:ARG:C	2.58	0.46
2:M:585:GLU:O	2:M:588:VAL:HG22	2.16	0.46
2:M:713:ARG:HG2	2:M:713:ARG:HH11	1.81	0.46
2:M:749:VAL:HG23	2:M:749:VAL:O	2.15	0.46
2:M:1083:GLU:HG2	9:M:9233:HOH:O	2.16	0.46
3:N:65:ARG:HG2	5:P:374:GLY:O	2.15	0.46
3:N:687:VAL:O	3:N:690:ALA:HB3	2.15	0.46
3:N:756:GLN:O	3:N:760:ARG:HG2	2.15	0.46
5:P:87:GLU:O	5:P:91:VAL:HG23	2.16	0.46
5:P:93:LEU:CD2	5:P:98:GLU:HB3	2.46	0.46
1:B:201:THR:HG22	1:B:203:GLY:H	1.81	0.46
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.98	0.46
2:C:408:ARG:HD2	2:C:542:VAL:HG21	1.98	0.46
2:C:597:ALA:O	2:C:652:GLY:N	2.47	0.46
2:C:1000:MET:HB2	2:C:1002:GLU:HG2	1.97	0.46
3:D:104:PHE:HE2	3:D:1448:THR:HA	1.81	0.46
3:D:1293:PHE:HB3	9:D:9737:HOH:O	2.15	0.46
3:D:1376:MET:HG2	3:D:1421:LEU:HA	1.97	0.46
1:K:75:VAL:O	1:K:79:ILE:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:404:LEU:HA	2:M:407:LYS:HE2	1.98	0.46
2:M:613:VAL:HB	9:M:9426:HOH:O	2.14	0.46
2:M:946:ARG:HB2	9:M:9918:HOH:O	2.16	0.46
2:M:1005:MET:HE2	3:N:648:MET:SD	2.56	0.46
3:N:27:GLU:N	9:N:9304:HOH:O	2.49	0.46
3:N:186:VAL:HG13	3:N:187:LYS:N	2.31	0.46
3:N:187:LYS:HA	9:N:9419:HOH:O	2.16	0.46
3:N:657:LEU:O	3:N:661:MET:HG2	2.16	0.46
3:N:1076:GLY:HA2	3:N:1079:LYS:HG2	1.98	0.46
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.45	0.46
5:P:125:ASP:HB2	9:P:8230:HOH:O	2.16	0.46
5:P:220:LEU:O	5:P:224:VAL:HG23	2.16	0.46
1:A:209:GLU:O	1:A:213:GLN:HG3	2.16	0.46
1:B:19:GLU:HG3	9:B:9589:HOH:O	2.15	0.46
2:C:66:LEU:HD11	2:C:98:LEU:HD22	1.98	0.46
2:C:133:ASP:HB2	2:C:632:ASN:ND2	2.27	0.46
2:C:569:VAL:HG12	2:C:996:LYS:O	2.16	0.46
2:C:724:ARG:HB2	2:C:740:GLU:CA	2.42	0.46
2:C:768:THR:HG22	2:C:771:GLU:H	1.81	0.46
2:C:808:ARG:HD3	9:C:2330:HOH:O	2.15	0.46
2:C:887:GLU:OE1	2:C:992:MET:HA	2.15	0.46
3:D:154:THR:HG22	3:D:155:ASP:H	1.81	0.46
3:D:168:THR:C	3:D:170:PRO:HD3	2.41	0.46
3:D:465:LEU:HD22	3:D:510:GLU:HA	1.98	0.46
3:D:493:ARG:O	3:D:497:GLU:HG2	2.16	0.46
3:D:508:ARG:HA	3:D:509:PRO:HD2	1.71	0.46
3:D:649:ALA:HB3	3:D:691:LEU:HD21	1.97	0.46
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.97	0.46
5:F:220:LEU:O	5:F:223:ALA:HB3	2.16	0.46
1:K:70:GLY:HA2	1:K:133:GLU:CG	2.46	0.46
2:M:115:LEU:O	2:M:115:LEU:HD12	2.16	0.46
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.46	0.46
2:M:839:LEU:HD11	2:M:849:VAL:HG22	1.98	0.46
2:M:1056:LYS:HB3	3:N:624:ASP:H	1.80	0.46
3:N:38:LYS:NZ	3:N:59:ALA:HB1	2.30	0.46
3:N:50:PHE:O	3:N:86:ARG:HA	2.15	0.46
3:N:138:LYS:HD3	9:N:9902:HOH:O	2.16	0.46
3:N:525:ARG:N	3:N:526:PRO:HD3	2.31	0.46
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.97	0.46
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.15	0.46
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1498:ALA:HB2	9:N:9438:HOH:O	2.16	0.46
5:P:394:ARG:HB3	9:P:6528:HOH:O	2.16	0.46
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.97	0.45
1:B:14:ARG:HA	9:B:9663:HOH:O	2.15	0.45
1:B:50:GLY:HA3	1:B:171:PHE:O	2.16	0.45
2:C:1:MET:SD	2:C:900:ARG:HD3	2.56	0.45
2:C:6:PHE:HA	2:C:8:ARG:HH21	1.80	0.45
2:C:157:ARG:HD2	2:C:314:THR:CG2	2.39	0.45
2:C:625:LEU:C	2:C:627:ARG:HH21	2.23	0.45
2:C:721:ARG:HA	9:C:2273:HOH:O	2.16	0.45
2:C:815:LEU:HD21	2:C:819:VAL:O	2.16	0.45
2:C:1097:LEU:H	2:C:1097:LEU:CD2	2.20	0.45
3:D:90:MET:HE3	3:D:520:LEU:HA	1.97	0.45
3:D:1097:LYS:HD2	9:D:9821:HOH:O	2.16	0.45
3:D:1122:LEU:HD12	3:D:1122:LEU:N	2.30	0.45
3:D:1283:ILE:HG22	3:D:1284:GLU:H	1.81	0.45
3:D:1375:MET:SD	3:D:1423:GLY:HA2	2.55	0.45
5:F:371:LEU:CD2	5:F:375:LEU:HD22	2.45	0.45
2:M:167:LYS:C	2:M:169:GLY:H	2.24	0.45
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.97	0.45
2:M:818:GLY:HA3	9:M:2517:HOH:O	2.16	0.45
2:M:1060:ILE:HG12	2:M:1063:ARG:NH2	2.30	0.45
3:N:651:GLU:HG2	9:N:2423:HOH:O	2.16	0.45
1:A:5:LYS:HA	1:A:5:LYS:HE3	1.97	0.45
2:C:17:PRO:O	2:C:20:GLU:HB3	2.17	0.45
2:C:24:GLU:HA	9:C:2056:HOH:O	2.15	0.45
2:C:208:ALA:HB1	2:C:218:VAL:HG11	1.97	0.45
2:C:585:GLU:HG2	2:C:665:PHE:CD2	2.51	0.45
2:C:768:THR:HG23	9:C:2074:HOH:O	2.16	0.45
2:C:945:ARG:HB3	9:C:2615:HOH:O	2.17	0.45
3:D:11:ALA:HB2	9:D:9902:HOH:O	2.14	0.45
3:D:125:GLN:HE22	3:D:587:ARG:HE	1.65	0.45
3:D:464:LEU:O	3:D:468:LEU:HG	2.16	0.45
3:D:776:GLU:HB3	3:D:912:LYS:HE2	1.98	0.45
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.39	0.45
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.16	0.45
3:D:1188:VAL:HG22	3:D:1189:ARG:O	2.15	0.45
5:F:173:TYR:HA	5:F:176:ILE:HD12	1.97	0.45
5:F:214:GLN:O	5:F:217:ASN:HB2	2.16	0.45
5:F:238:TYR:HB2	9:F:9643:HOH:O	2.16	0.45
5:F:309:LYS:HD3	9:F:9794:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:33:GLY:O	1:K:195:LEU:HD13	2.17	0.45
1:K:212:ASN:HD22	1:K:212:ASN:N	2.13	0.45
2:M:16:PRO:HB3	2:M:460:ARG:HH11	1.81	0.45
2:M:174:LEU:HB2	2:M:310:LEU:HD22	1.99	0.45
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.42	0.45
2:M:252:LYS:HE2	2:M:296:GLY:HA3	1.97	0.45
2:M:399:ASN:ND2	2:M:568:ALA:HB3	2.31	0.45
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.98	0.45
3:N:445:ARG:H	3:N:445:ARG:HD2	1.79	0.45
3:N:468:LEU:HD12	9:N:9350:HOH:O	2.16	0.45
3:N:919:PHE:HA	3:N:927:THR:OG1	2.17	0.45
3:N:928:ALA:O	3:N:931:LEU:HB2	2.15	0.45
5:P:266:GLU:HB2	5:P:270:LYS:HZ2	1.80	0.45
5:P:289:GLU:O	5:P:293:GLU:HG3	2.17	0.45
2:C:21:ILE:HD12	2:C:21:ILE:N	2.30	0.45
2:C:300:ASP:C	2:C:302:VAL:H	2.24	0.45
2:C:685:GLU:HB3	9:C:2345:HOH:O	2.15	0.45
2:C:962:GLN:N	9:C:9884:HOH:O	2.49	0.45
3:D:84:ILE:HG13	3:D:85:VAL:N	2.31	0.45
3:D:148:GLU:HG2	9:D:9755:HOH:O	2.15	0.45
3:D:178:LEU:HD11	9:D:2532:HOH:O	2.15	0.45
3:D:577:ALA:O	3:D:580:ALA:HB3	2.17	0.45
3:D:1197:ARG:C	3:D:1199:GLY:H	2.24	0.45
3:D:1259:VAL:O	3:D:1263:PHE:HD1	1.99	0.45
5:F:356:LYS:HD3	9:F:9676:HOH:O	2.15	0.45
1:K:57:TYR:CE1	1:K:163:ASN:HB2	2.46	0.45
1:L:143:ARG:HB2	9:L:7130:HOH:O	2.15	0.45
2:M:194:VAL:HG13	2:M:221:LEU:HD12	1.97	0.45
2:M:397:GLU:C	2:M:399:ASN:N	2.73	0.45
2:M:424:GLY:O	2:M:428:ARG:HG3	2.17	0.45
2:M:545:ASN:HB2	9:M:9531:HOH:O	2.16	0.45
2:M:605:LYS:HD2	9:M:9417:HOH:O	2.16	0.45
2:M:627:ARG:HD2	9:M:9479:HOH:O	2.17	0.45
2:M:841:ASN:ND2	2:M:845:ASN:HB3	2.32	0.45
2:M:955:PRO:HG2	9:M:9748:HOH:O	2.15	0.45
3:N:154:THR:HG23	3:N:157:GLU:H	1.81	0.45
3:N:182:GLY:HA2	9:N:9237:HOH:O	2.15	0.45
3:N:479:GLU:HB3	9:N:9264:HOH:O	2.15	0.45
3:N:660:LYS:O	3:N:664:LYS:HG3	2.16	0.45
5:P:366:ALA:HB2	9:P:1329:HOH:O	2.15	0.45
1:A:48:ILE:HA	1:A:49:PRO:HD3	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:89:PHE:HB2	9:A:9614:HOH:O	2.15	0.45
1:A:90:LEU:HA	9:A:9720:HOH:O	2.17	0.45
1:A:198:ARG:HB2	1:A:200:TRP:CZ3	2.52	0.45
2:C:136:ILE:HD11	9:C:9782:HOH:O	2.15	0.45
2:C:287:GLY:O	2:C:288:ARG:C	2.59	0.45
2:C:288:ARG:HH11	2:C:288:ARG:HA	1.82	0.45
2:C:707:ARG:HG3	2:C:826:TYR:CZ	2.51	0.45
2:C:794:PRO:HD2	9:C:9926:HOH:O	2.16	0.45
3:D:36:THR:C	3:D:38:LYS:N	2.73	0.45
3:D:637:LEU:HD11	3:D:641:GLN:C	2.42	0.45
3:D:660:LYS:O	3:D:663:GLU:HB2	2.16	0.45
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.98	0.45
3:D:710:ARG:HG3	3:D:711:LEU:N	2.31	0.45
5:F:93:LEU:CD2	5:F:98:GLU:HB3	2.46	0.45
5:F:230:LYS:HA	9:F:9842:HOH:O	2.16	0.45
1:K:197:LEU:N	9:K:1736:HOH:O	2.48	0.45
2:M:42:VAL:HG12	2:M:43:GLY:N	2.26	0.45
2:M:59:LYS:HB3	9:M:9726:HOH:O	2.16	0.45
2:M:187:ASN:HB3	9:M:2286:HOH:O	2.16	0.45
2:M:273:GLY:HA2	9:M:9612:HOH:O	2.17	0.45
2:M:353:ARG:HA	9:M:9887:HOH:O	2.16	0.45
2:M:367:LEU:HA	2:M:371:LYS:HB2	1.98	0.45
2:M:492:ASP:CA	2:M:518:LYS:HB3	2.43	0.45
2:M:1076:VAL:HG22	3:N:752:SER:HB3	1.98	0.45
9:M:9246:HOH:O	5:P:345:ALA:HA	2.15	0.45
3:N:50:PHE:HB3	3:N:522:PRO:HG2	1.99	0.45
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.82	0.45
4:O:70:THR:HA	9:O:2214:HOH:O	2.16	0.45
4:O:82:GLU:HG3	9:O:2121:HOH:O	2.17	0.45
5:P:405:LEU:HG	9:P:3208:HOH:O	2.16	0.45
1:B:80:LEU:HD13	3:D:842:VAL:HG12	1.98	0.45
1:B:226:SER:O	1:B:228:PRO:HD3	2.16	0.45
2:C:204:GLN:HB2	9:C:2456:HOH:O	2.17	0.45
2:C:462:ASP:CG	2:C:468:ARG:HE	2.23	0.45
2:C:584:GLU:O	2:C:588:VAL:HG13	2.16	0.45
2:C:820:ARG:HA	9:C:2072:HOH:O	2.17	0.45
3:D:4:GLU:HG3	9:D:2516:HOH:O	2.15	0.45
3:D:500:ARG:HA	9:D:2025:HOH:O	2.16	0.45
3:D:684:LYS:O	3:D:687:VAL:HG23	2.17	0.45
3:D:1033:GLN:O	3:D:1036:ARG:HB3	2.16	0.45
3:D:1103:HIS:HA	3:D:1223:ILE:CD1	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1343:ALA:HA	9:D:2807:HOH:O	2.15	0.45
3:D:1356:TYR:HD2	3:D:1361:VAL:HG11	1.82	0.45
3:D:1493:LYS:HE2	9:D:9651:HOH:O	2.16	0.45
5:F:373:LYS:HA	5:F:378:GLY:C	2.42	0.45
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.52	0.45
2:M:16:PRO:O	2:M:18:LEU:HD12	2.15	0.45
2:M:183:SER:HA	2:M:190:LYS:HB2	1.99	0.45
2:M:292:ARG:CZ	2:M:299:LYS:HD3	2.47	0.45
2:M:502:PRO:HA	9:M:2305:HOH:O	2.16	0.45
2:M:612:VAL:HG22	2:M:622:GLU:HG3	1.99	0.45
2:M:727:PRO:HG3	2:M:783:ARG:CZ	2.47	0.45
2:M:1005:MET:HE1	3:N:645:PRO:CB	2.46	0.45
2:M:1030:GLN:O	3:N:622:ARG:HA	2.17	0.45
2:M:1085:PHE:CE2	3:N:1468:LEU:HG	2.51	0.45
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.52	0.45
3:N:116:LEU:O	3:N:118:LEU:N	2.49	0.45
3:N:456:MET:HE1	9:N:2411:HOH:O	2.16	0.45
3:N:543:LEU:O	3:N:546:ARG:HB2	2.16	0.45
3:N:577:ALA:O	3:N:580:ALA:HB3	2.17	0.45
3:N:704:ARG:HH12	3:N:743:ASP:HB3	1.79	0.45
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.17	0.45
3:N:1054:GLU:HB2	9:N:9784:HOH:O	2.17	0.45
3:N:1114:THR:HG22	3:N:1195:GLN:HB2	1.97	0.45
3:N:1176:LYS:O	3:N:1179:GLU:HB2	2.17	0.45
3:N:1299:PHE:HB2	9:N:2802:HOH:O	2.16	0.45
3:N:1409:ALA:HB2	9:N:9520:HOH:O	2.16	0.45
4:O:77:GLU:HB2	9:O:2132:HOH:O	2.15	0.45
5:P:133:ALA:HB1	9:P:2305:HOH:O	2.15	0.45
5:P:292:ALA:O	5:P:299:TRP:HB2	2.15	0.45
5:P:315:VAL:HG12	5:P:316:SER:N	2.31	0.45
1:A:20:TYR:HE2	1:A:198:ARG:HB3	1.81	0.45
2:C:164:PRO:HA	2:C:266:ARG:HH12	1.80	0.45
2:C:475:VAL:HA	9:C:9621:HOH:O	2.16	0.45
2:C:505:GLY:HA3	9:C:9589:HOH:O	2.17	0.45
2:C:580:MET:HB3	9:C:2049:HOH:O	2.16	0.45
2:C:1016:ILE:H	2:C:1016:ILE:CD1	2.20	0.45
2:C:1081:VAL:HB	2:C:1086:ARG:NH2	2.31	0.45
3:D:206:ARG:HB3	3:D:206:ARG:NH1	2.32	0.45
3:D:213:VAL:HA	9:D:2673:HOH:O	2.16	0.45
3:D:452:ILE:HG23	3:D:452:ILE:O	2.17	0.45
3:D:777:PRO:HD2	3:D:912:LYS:HE2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1103:HIS:HA	3:D:1223:ILE:HD12	1.99	0.45
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	1.98	0.45
3:D:1348:LEU:HD23	3:D:1375:MET:HE3	1.99	0.45
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.97	0.45
5:F:160:ASP:OD2	5:F:163:LEU:HD12	2.16	0.45
1:L:17:GLY:C	1:L:19:GLU:H	2.25	0.45
1:L:153:ALA:HA	1:L:156:HIS:CE1	2.51	0.45
2:M:84:ARG:HH12	2:M:128:ILE:HG12	1.78	0.45
2:M:250:ARG:HD2	9:M:9919:HOH:O	2.17	0.45
2:M:737:LEU:O	2:M:738:ASP:C	2.59	0.45
2:M:799:ILE:HD13	2:M:799:ILE:H	1.81	0.45
2:M:892:LEU:HD13	2:M:989:VAL:O	2.16	0.45
3:N:572:ARG:O	3:N:575:GLN:HB3	2.17	0.45
3:N:988:ARG:HD2	3:N:992:ILE:CD1	2.46	0.45
3:N:1195:GLN:HG3	9:N:2116:HOH:O	2.17	0.45
3:N:1359:GLN:HE21	3:N:1359:GLN:HB3	1.49	0.45
4:O:29:GLN:HB2	4:O:33:HIS:HD2	1.81	0.45
5:P:217:ASN:O	5:P:220:LEU:HB3	2.16	0.45
5:P:287:THR:C	5:P:289:GLU:N	2.74	0.45
5:P:361:LEU:HD22	5:P:404:ALA:HB1	1.99	0.45
1:A:219:ARG:HG2	9:A:9621:HOH:O	2.17	0.45
1:B:207:PRO:HD2	9:B:9568:HOH:O	2.17	0.45
1:B:228:PRO:HG2	9:B:9723:HOH:O	2.15	0.45
2:C:151:ASP:OD1	2:C:152:PRO:HD2	2.17	0.45
2:C:202:TYR:CZ	2:C:304:LEU:HD22	2.51	0.45
2:C:262:ALA:HB2	9:C:2720:HOH:O	2.15	0.45
2:C:717:LEU:HD11	2:C:764:GLU:O	2.16	0.45
2:C:777:ILE:HG23	9:C:9997:HOH:O	2.16	0.45
2:C:1083:GLU:O	2:C:1087:VAL:HG23	2.16	0.45
2:C:1089:VAL:HG13	2:C:1099:VAL:HB	1.98	0.45
3:D:196:VAL:HG13	3:D:202:VAL:HG13	1.98	0.45
3:D:441:ARG:O	3:D:443:VAL:N	2.44	0.45
3:D:586:ARG:HD2	9:D:2072:HOH:O	2.17	0.45
3:D:808:THR:HB	3:D:809:PRO:HD3	1.97	0.45
3:D:869:MET:HE1	3:D:894:LYS:HG2	1.98	0.45
3:D:908:LYS:NZ	8:N:9100:G4P:O2D	2.49	0.45
3:D:1087:ARG:HD2	9:D:9624:HOH:O	2.17	0.45
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.15	0.45
3:D:1460:ILE:HA	9:D:2240:HOH:O	2.17	0.45
2:M:19:THR:HG22	2:M:19:THR:O	2.15	0.45
2:M:172:ILE:HA	2:M:185:LYS:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:288:ARG:NH1	2:M:289:THR:HG23	2.31	0.45
2:M:327:HIS:ND1	2:M:433:THR:HG21	2.32	0.45
2:M:407:LYS:HG2	9:M:9254:HOH:O	2.15	0.45
2:M:501:THR:O	2:M:503:LEU:HD23	2.16	0.45
2:M:575:GLN:H	2:M:667:ALA:HB1	1.81	0.45
2:M:713:ARG:HD2	9:M:9901:HOH:O	2.17	0.45
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.99	0.45
2:M:1088:LEU:O	2:M:1091:GLU:HB2	2.17	0.45
3:N:179:VAL:HG11	9:N:2712:HOH:O	2.17	0.45
3:N:421:LEU:HD12	3:N:435:VAL:CG1	2.44	0.45
3:N:631:ILE:HG21	3:N:745:MET:HG3	1.97	0.45
3:N:813:LEU:O	3:N:817:GLU:HB2	2.15	0.45
3:N:964:LEU:O	3:N:968:ASP:HB2	2.17	0.45
3:N:1017:PHE:HZ	9:N:9258:HOH:O	1.98	0.45
3:N:1194:CYS:SG	3:N:1200:VAL:HA	2.57	0.45
3:N:1241:PHE:O	3:N:1257:PRO:HB3	2.17	0.45
3:N:1312:LEU:HG	3:N:1327:ARG:HG3	1.99	0.45
3:N:1433:SER:HB2	3:N:1457:ASP:OD1	2.17	0.45
5:P:166:LEU:HD13	5:P:170:HIS:CB	2.47	0.45
1:A:22:GLU:N	9:A:9810:HOH:O	2.49	0.45
1:A:53:VAL:HG21	1:A:82:LEU:HB3	1.99	0.45
1:B:13:VAL:HG11	1:B:208:LEU:HD21	1.99	0.45
1:B:34:VAL:HG11	2:C:978:ARG:HB3	1.98	0.45
2:C:958:THR:CG2	2:C:961:GLU:HB2	2.46	0.45
2:C:1047:HIS:CD2	3:D:1471:LEU:HD11	2.52	0.45
2:C:1081:VAL:HB	2:C:1086:ARG:CZ	2.47	0.45
3:D:175:VAL:HG11	9:D:9726:HOH:O	2.17	0.45
3:D:560:GLN:HG3	5:F:221:ILE:HG21	1.99	0.45
3:D:570:GLU:OE2	5:F:214:GLN:HG3	2.16	0.45
3:D:792:ILE:HD12	3:D:941:PHE:CE1	2.52	0.45
3:D:867:ARG:HG3	9:D:2678:HOH:O	2.16	0.45
3:D:972:LEU:CG	3:D:976:GLN:HE22	2.23	0.45
3:D:986:ARG:NH1	3:D:986:ARG:HB2	2.32	0.45
3:D:1209:LEU:HD13	3:D:1219:GLU:CD	2.41	0.45
4:E:41:GLU:HB3	4:E:42:PRO:HD3	1.98	0.45
5:F:376:ILE:HG22	9:F:9780:HOH:O	2.16	0.45
1:L:2:LEU:HD12	1:L:3:ASP:H	1.82	0.45
1:L:166:PRO:HB2	9:L:3282:HOH:O	2.16	0.45
1:L:176:ARG:HH12	3:N:884:ARG:CZ	2.29	0.45
2:M:20:GLU:O	2:M:24:GLU:HB2	2.16	0.45
2:M:118:ILE:HD11	2:M:340:MET:HE2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:404:LEU:CD2	2:M:587:VAL:HG13	2.47	0.45
2:M:745:ILE:HG12	9:M:9460:HOH:O	2.17	0.45
2:M:1031:ARG:HB3	9:N:9740:HOH:O	2.16	0.45
3:N:590:PRO:HD2	9:N:9686:HOH:O	2.16	0.45
3:N:598:ARG:HH22	5:P:318:GLU:C	2.24	0.45
3:N:701:LEU:O	3:N:702:LEU:HD12	2.16	0.45
3:N:792:ILE:O	3:N:878:GLY:HA3	2.17	0.45
3:N:824:ASN:O	3:N:826:PRO:HD3	2.17	0.45
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.46	0.45
3:N:1390:LEU:HD13	9:N:9981:HOH:O	2.17	0.45
3:N:1425:THR:O	3:N:1429:LEU:HD13	2.17	0.45
4:O:25:LYS:HA	4:O:28:GLN:CD	2.41	0.45
4:O:40:LEU:HB2	4:O:45:ARG:CD	2.46	0.45
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.99	0.45
5:P:171:LYS:HG2	5:P:175:HIS:CE1	2.52	0.45
1:A:41:ARG:HH11	1:A:41:ARG:HG3	1.82	0.45
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.98	0.45
1:B:68:ILE:HG23	9:B:9743:HOH:O	2.16	0.45
2:C:358:ARG:HH21	2:C:372:LEU:C	2.24	0.45
2:C:612:VAL:HG22	2:C:622:GLU:CA	2.46	0.45
2:C:672:VAL:HG23	2:C:868:ASP:OD2	2.17	0.45
2:C:676:ILE:HG22	2:C:988:VAL:O	2.17	0.45
2:C:683:ASN:CG	2:C:872:ASN:HB2	2.41	0.45
3:D:95:LEU:HA	9:D:2002:HOH:O	2.17	0.45
3:D:170:PRO:O	3:D:391:ALA:HB3	2.17	0.45
3:D:216:VAL:HG12	9:D:9564:HOH:O	2.17	0.45
3:D:561:GLY:HA2	9:D:9763:HOH:O	2.17	0.45
3:D:833:GLU:HB2	9:D:2078:HOH:O	2.16	0.45
3:D:1005:GLN:HB2	9:D:9713:HOH:O	2.16	0.45
3:D:1046:GLN:HB3	3:D:1052:THR:CG2	2.47	0.45
5:F:96:LEU:O	5:F:100:VAL:HG23	2.17	0.45
2:M:397:GLU:H	2:M:633:GLN:NE2	2.14	0.45
2:M:455:LEU:HD22	2:M:459:ALA:HB1	1.98	0.45
2:M:673:LEU:HD13	9:M:9318:HOH:O	2.16	0.45
3:N:469:ASP:OD1	3:N:471:GLU:HB2	2.17	0.45
5:P:306:GLU:O	5:P:310:ILE:HG13	2.17	0.45
1:A:69:PRO:C	1:A:71:VAL:H	2.25	0.45
1:B:176:ARG:HB3	9:B:9633:HOH:O	2.16	0.45
2:C:404:LEU:HA	2:C:407:LYS:HZ3	1.81	0.45
2:C:650:ARG:HG3	9:C:9988:HOH:O	2.17	0.45
2:C:764:GLU:HG3	9:F:9714:HOH:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:881:ASN:H	2:C:881:ASN:ND2	2.14	0.45
2:C:1014:SER:OG	5:F:331:ASP:HA	2.17	0.45
3:D:161:LEU:O	3:D:449:SER:HB2	2.17	0.45
3:D:1141:GLU:O	3:D:1145:TYR:HB2	2.17	0.45
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.81	0.45
3:D:1428:ALA:C	3:D:1430:SER:N	2.75	0.45
5:F:84:TYR:HD2	5:F:192:LEU:HD13	1.82	0.45
5:F:125:ASP:O	5:F:129:GLU:HG2	2.16	0.45
5:F:151:LEU:HB2	5:F:155:THR:OG1	2.17	0.45
1:K:57:TYR:CD2	1:K:161:ARG:HD3	2.52	0.45
1:K:69:PRO:C	1:K:71:VAL:H	2.25	0.45
2:M:35:PRO:HD2	2:M:38:LYS:HG2	1.99	0.45
2:M:742:VAL:HG12	2:M:743:VAL:N	2.32	0.45
2:M:955:PRO:HD3	9:M:9923:HOH:O	2.17	0.45
3:N:161:LEU:HG	3:N:449:SER:OG	2.17	0.45
3:N:789:LEU:HD12	3:N:911:LEU:HD21	1.98	0.45
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.17	0.45
3:N:1197:ARG:C	3:N:1199:GLY:H	2.25	0.45
3:N:1459:LEU:HB3	3:N:1465:ASN:HD22	1.82	0.45
5:P:77:THR:HA	9:P:1606:HOH:O	2.17	0.45
5:P:150:THR:HG23	5:P:155:THR:CG2	2.46	0.45
2:C:134:ARG:HG3	2:C:393:GLN:O	2.17	0.44
2:C:439:CYS:HB2	2:C:541:SER:HB3	1.99	0.44
2:C:895:TYR:HD1	2:C:991:GLN:HE21	1.64	0.44
3:D:12:LEU:HD21	3:D:104:PHE:CE1	2.52	0.44
3:D:35:ARG:HD3	9:D:2024:HOH:O	2.17	0.44
3:D:59:ALA:HB2	9:D:2190:HOH:O	2.17	0.44
3:D:116:LEU:C	3:D:118:LEU:HD13	2.41	0.44
3:D:416:ALA:HB3	3:D:417:PRO:HD3	1.99	0.44
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.47	0.44
3:D:441:ARG:HB3	3:D:443:VAL:HG23	1.98	0.44
3:D:844:ALA:O	3:D:867:ARG:HB3	2.17	0.44
3:D:956:ILE:HB	9:D:2735:HOH:O	2.18	0.44
5:F:153:PRO:CG	5:F:154:LYS:H	2.30	0.44
1:L:49:PRO:HA	1:L:148:VAL:HG12	2.00	0.44
1:L:213:GLN:HG3	9:L:1267:HOH:O	2.17	0.44
2:M:257:VAL:HG12	2:M:263:ASP:CG	2.42	0.44
2:M:276:LYS:HG3	9:M:9544:HOH:O	2.16	0.44
2:M:607:ASP:C	2:M:609:ASN:N	2.74	0.44
3:N:829:VAL:HA	9:N:9979:HOH:O	2.17	0.44
3:N:903:ASP:HA	9:N:9960:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1031:ASN:O	3:N:1034:GLN:HB2	2.17	0.44
9:N:9941:HOH:O	5:P:312:GLN:HB3	2.16	0.44
5:P:413:SER:HA	9:P:2117:HOH:O	2.16	0.44
1:A:181:VAL:HG12	9:C:9642:HOH:O	2.18	0.44
2:C:64:LEU:HD13	2:C:359:MET:CG	2.47	0.44
2:C:172:ILE:H	2:C:172:ILE:HD12	1.82	0.44
3:D:177:ALA:CA	3:D:199:LEU:HD13	2.46	0.44
3:D:191:LEU:HD22	3:D:195:VAL:HG11	1.99	0.44
3:D:699:VAL:HB	3:D:716:PHE:O	2.18	0.44
3:D:1149:LEU:HD11	3:D:1160:LEU:HB3	2.00	0.44
3:D:1260:ILE:HG21	9:D:2566:HOH:O	2.17	0.44
4:E:54:LEU:HG	4:E:58:PRO:CG	2.47	0.44
5:F:134:LYS:NZ	5:F:160:ASP:HB2	2.31	0.44
5:F:274:THR:O	5:F:278:LEU:HG	2.18	0.44
5:F:287:THR:C	5:F:289:GLU:H	2.25	0.44
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.97	0.44
2:M:34:VAL:CB	2:M:38:LYS:HG3	2.33	0.44
2:M:64:LEU:HD22	2:M:359:MET:CG	2.43	0.44
2:M:301:GLU:HA	9:M:2582:HOH:O	2.17	0.44
2:M:302:VAL:HG13	2:M:303:PHE:N	2.32	0.44
2:M:759:THR:N	9:M:9349:HOH:O	2.44	0.44
2:M:906:PHE:CZ	3:N:1067:VAL:HA	2.52	0.44
2:M:1105:LYS:O	2:M:1107:ASN:N	2.50	0.44
3:N:42:ASP:HB2	9:N:9477:HOH:O	2.16	0.44
3:N:130:SER:HA	3:N:572:ARG:HH12	1.82	0.44
3:N:141:ILE:HD12	3:N:141:ILE:N	2.26	0.44
3:N:395:VAL:O	3:N:395:VAL:HG12	2.16	0.44
3:N:472:ALA:HA	9:N:9220:HOH:O	2.18	0.44
3:N:689:ASP:HB3	9:O:1346:HOH:O	2.17	0.44
3:N:724:GLN:HA	9:N:9508:HOH:O	2.17	0.44
3:N:893:GLU:O	3:N:896:ALA:HB3	2.17	0.44
3:N:1109:GLU:CG	3:N:1201:CYS:HA	2.38	0.44
5:P:287:THR:CG2	5:P:289:GLU:HB2	2.43	0.44
1:A:146:ARG:HE	1:A:146:ARG:C	2.25	0.44
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.52	0.44
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.46	0.44
1:B:206:THR:CG2	1:B:209:GLU:H	2.29	0.44
2:C:65:VAL:HG12	2:C:67:ASP:OD1	2.16	0.44
2:C:147:TYR:HE2	2:C:330:ASN:OD1	1.99	0.44
2:C:439:CYS:SG	2:C:540:PHE:HB3	2.57	0.44
2:C:492:ASP:HB3	2:C:518:LYS:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:742:VAL:HG12	2:C:743:VAL:N	2.31	0.44
2:C:798:GLY:H	2:C:827:VAL:HG11	1.81	0.44
3:D:789:LEU:HD22	3:D:882:PHE:CE1	2.52	0.44
3:D:881:LEU:HD11	3:D:884:ARG:HH21	1.81	0.44
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.16	0.44
3:D:1110:ALA:HB1	9:D:2073:HOH:O	2.17	0.44
3:D:1498:ALA:HA	9:E:9588:HOH:O	2.17	0.44
4:E:13:VAL:HG11	4:E:19:LEU:HB2	1.99	0.44
4:E:85:LEU:HA	9:E:9561:HOH:O	2.17	0.44
5:F:300:ASP:O	5:F:304:VAL:HG23	2.17	0.44
1:K:92:PRO:HB2	9:K:1355:HOH:O	2.15	0.44
9:K:2274:HOH:O	2:M:865:THR:HG22	2.16	0.44
1:L:132:LEU:HD22	9:L:4720:HOH:O	2.17	0.44
2:M:119:PRO:HB2	9:M:9763:HOH:O	2.16	0.44
2:M:224:GLU:HB3	2:M:227:PHE:CD1	2.52	0.44
2:M:436:GLY:O	2:M:469:THR:HB	2.17	0.44
2:M:817:PRO:C	2:M:819:VAL:H	2.25	0.44
2:M:918:LEU:HD12	2:M:918:LEU:HA	1.85	0.44
3:N:427:VAL:HG13	9:N:9378:HOH:O	2.16	0.44
3:N:452:ILE:HG21	9:N:9295:HOH:O	2.17	0.44
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.57	0.44
3:N:549:ASN:ND2	5:P:254:GLN:HE21	2.16	0.44
3:N:712:GLY:HA3	9:N:2395:HOH:O	2.16	0.44
1:B:86:VAL:HG23	9:B:9660:HOH:O	2.17	0.44
1:B:169:ALA:HB1	1:B:171:PHE:CE2	2.52	0.44
2:C:127:PHE:O	2:C:133:ASP:HA	2.17	0.44
2:C:209:ARG:O	2:C:213:ALA:HB2	2.17	0.44
2:C:254:VAL:HG22	2:C:258:TYR:HE1	1.81	0.44
2:C:480:THR:HG22	2:C:482:GLU:H	1.83	0.44
2:C:516:ARG:NH1	3:D:1068:LEU:HD22	2.32	0.44
2:C:631:SER:HB3	2:C:637:LEU:HD22	2.00	0.44
2:C:816:LYS:O	2:C:819:VAL:HB	2.18	0.44
2:C:926:PHE:O	2:C:929:ARG:HB2	2.17	0.44
2:C:930:LYS:HD3	2:C:960:GLU:OE1	2.18	0.44
3:D:210:ARG:HG3	9:D:9645:HOH:O	2.17	0.44
3:D:422:ALA:O	3:D:427:VAL:HG21	2.18	0.44
3:D:450:TYR:HB3	9:D:2159:HOH:O	2.17	0.44
3:D:500:ARG:HH22	3:D:1388:ARG:NE	2.15	0.44
3:D:814:ALA:HB2	9:D:2210:HOH:O	2.17	0.44
3:D:1263:PHE:HA	3:D:1375:MET:HE2	1.99	0.44
3:D:1344:VAL:HG11	3:D:1421:LEU:HD22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:291:ILE:HG23	5:F:292:ALA:N	2.32	0.44
1:K:12:THR:HG21	9:K:1709:HOH:O	2.16	0.44
1:K:133:GLU:N	9:K:1268:HOH:O	2.50	0.44
2:M:418:LEU:HB2	9:M:2268:HOH:O	2.16	0.44
2:M:928:LYS:HA	2:M:928:LYS:HE2	1.99	0.44
2:M:1015:LEU:HA	5:P:335:ASP:HB2	1.99	0.44
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.48	0.44
3:N:500:ARG:HG3	3:N:500:ARG:NH1	2.33	0.44
3:N:864:VAL:HG12	3:N:865:THR:H	1.82	0.44
3:N:983:LEU:HD13	9:N:9836:HOH:O	2.17	0.44
5:P:113:ILE:HD12	9:P:4659:HOH:O	2.18	0.44
1:A:95:GLN:HB3	9:A:9602:HOH:O	2.17	0.44
9:A:9736:HOH:O	1:B:156:HIS:HB3	2.18	0.44
1:B:69:PRO:C	1:B:71:VAL:H	2.25	0.44
1:B:79:ILE:HA	1:B:82:LEU:HD12	2.00	0.44
1:B:206:THR:HG22	1:B:209:GLU:CG	2.48	0.44
2:C:45:GLN:NE2	9:C:2296:HOH:O	2.49	0.44
2:C:321:GLU:HG3	9:C:2328:HOH:O	2.18	0.44
2:C:560:MET:O	2:C:564:MET:HB2	2.17	0.44
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.47	0.44
2:C:899:GLN:HA	9:C:2768:HOH:O	2.17	0.44
3:D:34:TYR:O	3:D:35:ARG:C	2.60	0.44
3:D:186:VAL:HG23	3:D:211:VAL:CG1	2.48	0.44
3:D:907:GLU:O	3:D:911:LEU:HD13	2.18	0.44
3:D:1341:PRO:HA	3:D:1344:VAL:CG2	2.46	0.44
3:D:1382:THR:O	3:D:1384:PRO:HD3	2.17	0.44
3:D:1393:GLN:HB3	9:D:9676:HOH:O	2.17	0.44
4:E:50:THR:HG23	9:E:9582:HOH:O	2.16	0.44
1:K:30:ARG:HH22	1:L:155:LYS:NZ	2.16	0.44
1:K:83:LYS:HD3	9:K:2976:HOH:O	2.18	0.44
1:L:113:ASP:HA	9:L:1552:HOH:O	2.18	0.44
2:M:8:ARG:HG3	9:M:9876:HOH:O	2.17	0.44
2:M:21:ILE:HD12	2:M:21:ILE:N	2.30	0.44
2:M:49:ARG:HB2	9:M:9976:HOH:O	2.17	0.44
2:M:432:ARG:HH11	2:M:432:ARG:HG3	1.82	0.44
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.47	0.44
2:M:598:GLU:N	9:M:9609:HOH:O	2.50	0.44
2:M:777:ILE:HG22	2:M:778:PHE:N	2.31	0.44
2:M:860:HIS:CE1	2:M:977:GLY:HA2	2.51	0.44
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.82	0.44
2:M:1067:TYR:CD2	5:P:345:ALA:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1095:LEU:HD23	3:N:582:LEU:HD23	1.99	0.44
3:N:101:HIS:CD2	3:N:582:LEU:HD22	2.52	0.44
3:N:192:ALA:HB3	9:N:9235:HOH:O	2.18	0.44
3:N:513:ILE:H	3:N:513:ILE:HG13	1.65	0.44
3:N:619:LEU:O	3:N:619:LEU:HD23	2.18	0.44
3:N:808:THR:HB	3:N:809:PRO:HD3	1.98	0.44
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.18	0.44
3:N:1277:ILE:CG2	3:N:1278:ASP:N	2.80	0.44
1:B:10:VAL:HA	9:B:9606:HOH:O	2.17	0.44
1:B:94:LEU:HD21	1:B:119:ASP:CG	2.43	0.44
2:C:811:PRO:HD2	2:C:813:VAL:HG13	1.99	0.44
2:C:1051:GLU:C	2:C:1056:LYS:HD2	2.43	0.44
3:D:87:ARG:HD2	3:D:88:TYR:CE2	2.53	0.44
3:D:389:GLU:CD	3:D:389:GLU:N	2.75	0.44
3:D:470:LEU:HB3	3:D:503:LEU:HD11	2.00	0.44
3:D:835:SER:HB3	9:D:2297:HOH:O	2.16	0.44
4:E:23:VAL:HG11	9:E:9593:HOH:O	2.18	0.44
1:K:31:GLY:N	1:K:193:ASP:OD1	2.51	0.44
1:K:42:ARG:CZ	9:K:4396:HOH:O	2.65	0.44
1:K:189:ARG:HG2	1:K:190:THR:N	2.33	0.44
1:L:77:GLU:HG3	9:N:2080:HOH:O	2.18	0.44
2:M:31:GLN:HB3	2:M:31:GLN:HE21	1.50	0.44
2:M:492:ASP:HA	9:M:9579:HOH:O	2.18	0.44
2:M:563:ASN:HA	9:M:9240:HOH:O	2.16	0.44
2:M:676:ILE:HG22	2:M:988:VAL:O	2.17	0.44
2:M:799:ILE:O	2:M:801:VAL:HG13	2.17	0.44
2:M:860:HIS:HA	2:M:866:PRO:HA	1.99	0.44
2:M:893:ALA:O	2:M:897:LEU:HB2	2.16	0.44
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.17	0.44
3:N:38:LYS:HG3	9:N:9685:HOH:O	2.16	0.44
3:N:85:VAL:O	3:N:89:ARG:HG3	2.18	0.44
3:N:768:ASN:HD22	3:N:768:ASN:N	2.15	0.44
3:N:796:ARG:HE	3:N:828:LYS:HZ3	1.66	0.44
3:N:1417:TRP:HD1	9:N:9725:HOH:O	2.00	0.44
4:O:70:THR:HG22	4:O:71:GLY:H	1.83	0.44
5:P:266:GLU:HB2	5:P:270:LYS:HZ3	1.80	0.44
1:B:26:GLU:CB	1:B:194:LYS:HG3	2.48	0.44
2:C:584:GLU:HB2	2:C:666:LEU:H	1.83	0.44
2:C:607:ASP:HB2	2:C:610:ARG:H	1.81	0.44
2:C:639:GLN:HB3	2:C:656:ALA:HB1	2.00	0.44
2:C:1021:LEU:HD13	5:F:331:ASP:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.52	0.44
3:D:168:THR:HG22	3:D:170:PRO:HD3	2.00	0.44
3:D:563:PRO:HG3	5:F:188:ILE:CG2	2.47	0.44
3:D:845:ASN:CG	3:D:846:PRO:HD2	2.42	0.44
3:D:986:ARG:HB2	3:D:986:ARG:HH11	1.83	0.44
3:D:1470:ARG:HG2	3:D:1471:LEU:N	2.32	0.44
4:E:91:ARG:CZ	9:E:9574:HOH:O	2.66	0.44
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.83	0.44
1:K:97:VAL:HG11	1:K:120:VAL:HG21	1.99	0.44
1:L:14:ARG:HH22	1:L:24:VAL:CG2	2.31	0.44
1:L:80:LEU:HD13	3:N:842:VAL:CG1	2.42	0.44
2:M:288:ARG:HH12	2:M:289:THR:HG23	1.82	0.44
2:M:338:GLU:HA	2:M:341:THR:CG2	2.44	0.44
2:M:545:ASN:HD21	2:M:905:ILE:HG13	1.82	0.44
2:M:854:PRO:C	2:M:856:GLU:N	2.73	0.44
3:N:12:LEU:CD2	3:N:13:ALA:H	2.30	0.44
3:N:18:ILE:HG21	3:N:516:ALA:O	2.17	0.44
3:N:138:LYS:H	3:N:138:LYS:CD	2.31	0.44
3:N:441:ARG:HD2	9:N:9328:HOH:O	2.18	0.44
3:N:711:LEU:C	3:N:713:ILE:N	2.76	0.44
3:N:895:VAL:O	3:N:899:LEU:HD12	2.17	0.44
3:N:1162:GLU:HB3	9:N:9990:HOH:O	2.18	0.44
3:N:1384:PRO:HG3	3:N:1389:LEU:N	2.33	0.44
3:N:1487:VAL:CG1	3:N:1488:ASP:N	2.81	0.44
4:O:12:MET:HE2	9:O:1143:HOH:O	2.17	0.44
5:P:316:SER:HG	5:P:318:GLU:HG3	1.82	0.44
5:P:339:PRO:HA	9:P:1420:HOH:O	2.18	0.44
2:C:250:ARG:HD2	9:C:2643:HOH:O	2.17	0.44
2:C:456:ALA:HA	2:C:541:SER:HA	1.98	0.44
2:C:517:ARG:O	2:C:519:GLY:N	2.51	0.44
2:C:913:GLU:HB3	9:C:2225:HOH:O	2.17	0.44
2:C:1008:ARG:C	9:C:9888:HOH:O	2.60	0.44
2:C:1052:MET:HG3	3:D:623:VAL:HG21	1.98	0.44
3:D:36:THR:O	3:D:38:LYS:N	2.50	0.44
3:D:82:LYS:O	3:D:84:ILE:N	2.51	0.44
3:D:116:LEU:HB3	3:D:118:LEU:CD1	2.44	0.44
3:D:130:SER:CB	3:D:572:ARG:HH12	2.30	0.44
3:D:633:VAL:C	3:D:635:PRO:HD3	2.43	0.44
3:D:697:GLY:HA3	4:E:59:ASN:OD1	2.17	0.44
3:D:937:TYR:HA	3:D:940:THR:OG1	2.18	0.44
3:D:964:LEU:O	3:D:968:ASP:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1044:LEU:N	9:D:2029:HOH:O	2.51	0.44
3:D:1101:VAL:CG1	3:D:1427:SER:HB3	2.46	0.44
4:E:51:LEU:HD21	9:E:9611:HOH:O	2.17	0.44
5:F:111:GLU:O	5:F:115:LYS:HG3	2.18	0.44
1:L:176:ARG:HH22	3:N:884:ARG:HE	1.65	0.44
2:M:303:PHE:HZ	9:M:2121:HOH:O	2.00	0.44
2:M:872:ASN:OD1	2:M:874:LEU:N	2.47	0.44
2:M:1081:VAL:HB	2:M:1086:ARG:NE	2.32	0.44
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.47	0.44
3:N:396:VAL:HG13	3:N:447:VAL:HA	2.00	0.44
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.99	0.44
3:N:566:ILE:HG12	5:P:217:ASN:HD22	1.83	0.44
3:N:606:ILE:HG21	9:N:2854:HOH:O	2.18	0.44
3:N:1145:TYR:HA	9:N:2585:HOH:O	2.17	0.44
3:N:1192:LEU:N	9:N:9676:HOH:O	2.50	0.44
3:N:1397:LYS:HG2	9:N:2363:HOH:O	2.17	0.44
4:O:70:THR:HG22	4:O:71:GLY:N	2.33	0.44
2:C:129:ILE:HG22	2:C:130:ASN:H	1.83	0.44
2:C:176:VAL:C	2:C:178:PRO:HD3	2.43	0.44
2:C:365:ASP:O	2:C:367:LEU:HD23	2.18	0.44
2:C:440:PRO:HD2	9:C:2264:HOH:O	2.18	0.44
2:C:677:MET:C	2:C:873:PRO:HD3	2.43	0.44
2:C:720:GLU:HA	2:C:759:THR:O	2.18	0.44
2:C:749:VAL:HG23	2:C:749:VAL:O	2.18	0.44
2:C:789:SER:HB2	9:C:9581:HOH:O	2.18	0.44
2:C:823:VAL:HG22	9:C:9907:HOH:O	2.18	0.44
2:C:896:PHE:HB2	9:C:2761:HOH:O	2.18	0.44
2:C:929:ARG:HG3	2:C:929:ARG:NH1	2.33	0.44
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.48	0.44
3:D:395:VAL:O	3:D:395:VAL:HG12	2.18	0.44
3:D:770:LEU:HD12	3:D:1211:MET:C	2.43	0.44
3:D:953:ASP:OD1	3:D:1019:PRO:HG2	2.18	0.44
3:D:984:THR:H	3:D:987:GLU:CD	2.25	0.44
3:D:1036:ARG:NH1	9:D:9667:HOH:O	2.51	0.44
3:D:1197:ARG:HG3	3:D:1198:TYR:N	2.33	0.44
3:D:1244:GLY:HA3	9:D:2849:HOH:O	2.17	0.44
5:F:187:LEU:HD23	5:F:191:ASN:HD22	1.82	0.44
5:F:259:ARG:HG2	5:F:259:ARG:NH1	2.32	0.44
5:F:315:VAL:HG12	5:F:316:SER:H	1.83	0.44
5:F:353:GLU:HA	9:F:9676:HOH:O	2.17	0.44
1:K:227:ASN:HB2	9:K:1432:HOH:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:31:GLN:NE2	2:M:34:VAL:HG23	2.33	0.44
2:M:31:GLN:OE1	2:M:40:GLU:HB2	2.16	0.44
2:M:50:GLU:OE2	2:M:345:ARG:HD2	2.18	0.44
2:M:130:ASN:HB3	9:M:9773:HOH:O	2.18	0.44
2:M:147:TYR:HB3	2:M:323:ASP:CG	2.42	0.44
2:M:272:ALA:HB1	9:M:9251:HOH:O	2.17	0.44
2:M:588:VAL:HG23	2:M:596:TYR:OH	2.18	0.44
2:M:747:ALA:HB1	9:M:9356:HOH:O	2.17	0.44
2:M:798:GLY:H	2:M:827:VAL:HG11	1.82	0.44
3:N:196:VAL:HG13	3:N:202:VAL:HG13	1.99	0.44
3:N:205:TYR:N	3:N:205:TYR:CD1	2.86	0.44
3:N:581:LEU:HD12	3:N:581:LEU:C	2.42	0.44
3:N:1147:ARG:HD2	3:N:1188:VAL:CG2	2.48	0.44
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.48	0.44
3:N:1459:LEU:HD13	3:N:1465:ASN:HA	1.99	0.44
5:P:295:MET:HE2	5:P:295:MET:HA	2.00	0.44
5:P:361:LEU:HD21	5:P:408:LEU:HB2	1.99	0.44
1:A:85:LEU:HD12	1:A:124:ASN:HB3	2.00	0.43
1:B:85:LEU:HD12	1:B:124:ASN:HB3	2.00	0.43
2:C:610:ARG:HD2	9:C:9662:HOH:O	2.18	0.43
2:C:615:TYR:C	2:C:617:ASP:H	2.26	0.43
2:C:773:LEU:HA	9:C:9824:HOH:O	2.18	0.43
2:C:774:LEU:O	2:C:777:ILE:HB	2.18	0.43
2:C:781:LYS:HD2	9:C:9791:HOH:O	2.17	0.43
2:C:860:HIS:HA	2:C:866:PRO:HA	1.99	0.43
2:C:941:VAL:O	2:C:944:LEU:HB2	2.18	0.43
3:D:34:TYR:CD1	3:D:35:ARG:N	2.86	0.43
3:D:154:THR:HG22	3:D:155:ASP:N	2.32	0.43
3:D:562:ALA:CB	3:D:567:ILE:HD11	2.40	0.43
3:D:653:PHE:CD1	3:D:653:PHE:N	2.86	0.43
3:D:966:GLU:HG3	9:D:2760:HOH:O	2.17	0.43
3:D:1136:LYS:HB2	3:D:1139:ASP:OD2	2.18	0.43
3:D:1197:ARG:C	3:D:1197:ARG:HE	2.26	0.43
3:D:1314:LYS:HE2	9:D:3278:HOH:O	2.18	0.43
3:D:1394:VAL:CG2	3:D:1397:LYS:HD2	2.47	0.43
4:E:29:GLN:HG3	9:E:9594:HOH:O	2.18	0.43
5:F:113:ILE:HG23	5:F:127:ILE:CB	2.46	0.43
5:F:288:TYR:CE2	5:F:305:GLU:HA	2.52	0.43
2:M:192:PRO:HB3	2:M:194:VAL:HG23	1.99	0.43
2:M:286:SER:HB3	2:M:299:LYS:CE	2.47	0.43
2:M:292:ARG:HE	2:M:299:LYS:HZ2	1.65	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.76	0.43
2:M:768:THR:HG23	9:M:9276:HOH:O	2.17	0.43
2:M:918:LEU:HD23	2:M:968:LEU:O	2.17	0.43
3:N:65:ARG:HD3	3:N:66:GLN:N	2.31	0.43
3:N:126:VAL:HG23	9:N:9692:HOH:O	2.18	0.43
3:N:142:LEU:HB3	9:N:9595:HOH:O	2.17	0.43
3:N:172:PRO:CG	3:N:178:LEU:HD22	2.40	0.43
3:N:729:HIS:CE1	3:N:935:LYS:HD3	2.52	0.43
3:N:984:THR:HB	3:N:987:GLU:OE1	2.18	0.43
3:N:1326:THR:HG21	9:N:2275:HOH:O	2.18	0.43
5:P:222:ARG:HD2	5:P:242:TRP:CE3	2.54	0.43
2:C:183:SER:HA	2:C:190:LYS:HB2	1.99	0.43
2:C:250:ARG:HH21	2:C:254:VAL:N	2.14	0.43
2:C:431:HIS:CD2	2:C:433:THR:H	2.36	0.43
2:C:614:ARG:HG3	9:C:9611:HOH:O	2.18	0.43
3:D:395:VAL:HB	9:D:9923:HOH:O	2.18	0.43
3:D:1063:GLU:HG2	3:D:1064:GLY:N	2.29	0.43
3:D:1209:LEU:HD11	4:E:16:LYS:NZ	2.33	0.43
3:D:1374:GLN:OE1	3:D:1377:LYS:HD3	2.18	0.43
3:D:1499:ARG:HB3	9:D:2661:HOH:O	2.18	0.43
4:E:70:THR:HG22	4:E:71:GLY:N	2.33	0.43
5:F:164:LYS:HD2	9:F:9652:HOH:O	2.18	0.43
5:F:207:LEU:HD12	5:F:212:LEU:CD2	2.48	0.43
5:F:404:ALA:O	5:F:408:LEU:HB2	2.19	0.43
1:K:11:PHE:HB2	9:L:2122:HOH:O	2.17	0.43
1:L:78:ILE:O	1:L:82:LEU:HG	2.18	0.43
1:L:106:PRO:HA	1:L:132:LEU:O	2.18	0.43
2:M:208:ALA:HB3	2:M:209:ARG:HH21	1.83	0.43
2:M:243:ARG:HB3	9:M:9892:HOH:O	2.18	0.43
2:M:444:PRO:CD	2:M:452:ILE:HG13	2.48	0.43
2:M:554:ASP:OD2	2:M:556:ASN:HB3	2.18	0.43
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.83	0.43
2:M:1015:LEU:HD12	5:P:333:ILE:CG2	2.48	0.43
2:M:1031:ARG:HA	3:N:621:LYS:O	2.17	0.43
3:N:47:GLU:N	3:N:47:GLU:CD	2.76	0.43
3:N:471:GLU:HG2	9:N:9786:HOH:O	2.17	0.43
3:N:647:ARG:HH12	3:N:680:GLN:HG3	1.82	0.43
3:N:759:ALA:O	3:N:763:MET:HB3	2.18	0.43
3:N:822:ALA:HB2	9:N:9525:HOH:O	2.18	0.43
3:N:962:GLN:HA	9:N:9569:HOH:O	2.17	0.43
3:N:995:LEU:HA	3:N:998:GLU:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1046:GLN:CA	3:N:1052:THR:HA	2.37	0.43
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.18	0.43
3:N:1303:TYR:HA	9:N:9699:HOH:O	2.18	0.43
5:P:192:LEU:HB3	9:P:4506:HOH:O	2.18	0.43
1:A:97:VAL:HG11	1:A:120:VAL:HG21	1.99	0.43
1:B:83:LYS:HE2	1:B:167:VAL:HG12	2.00	0.43
2:C:12:VAL:CG1	2:C:534:VAL:HG13	2.48	0.43
2:C:115:LEU:HD12	2:C:378:LEU:CD2	2.48	0.43
2:C:244:PRO:HD2	2:C:245:GLY:N	2.23	0.43
2:C:840:ALA:HB2	2:C:846:LYS:HG3	1.99	0.43
2:C:971:LYS:HG2	2:C:988:VAL:N	2.33	0.43
3:D:186:VAL:HG13	3:D:187:LYS:N	2.32	0.43
3:D:719:VAL:HG11	9:D:9572:HOH:O	2.17	0.43
3:D:1363:LEU:HD12	3:D:1363:LEU:O	2.19	0.43
3:D:1406:ARG:NE	3:D:1412:LYS:HB3	2.33	0.43
3:D:1425:THR:HB	9:D:9596:HOH:O	2.17	0.43
3:D:1481:VAL:HG12	4:E:21:VAL:HG21	1.99	0.43
4:E:48:MET:HB2	4:E:54:LEU:HD12	2.01	0.43
1:K:1:MET:O	1:K:6:LEU:HD22	2.18	0.43
1:K:24:VAL:HG22	1:K:196:THR:OG1	2.18	0.43
1:K:30:ARG:HD2	9:K:1388:HOH:O	2.17	0.43
1:K:112:ARG:NH1	9:K:3292:HOH:O	2.50	0.43
2:M:204:GLN:HE22	2:M:225:SER:HA	1.84	0.43
2:M:569:VAL:O	2:M:571:LEU:HD12	2.17	0.43
2:M:597:ALA:O	2:M:652:GLY:N	2.50	0.43
2:M:981:GLU:HA	9:M:9308:HOH:O	2.19	0.43
3:N:380:GLU:HA	9:N:9923:HOH:O	2.18	0.43
3:N:660:LYS:HD2	3:N:694:VAL:HG22	1.99	0.43
3:N:873:LEU:HD23	9:N:2208:HOH:O	2.18	0.43
4:O:53:GLY:HA3	9:O:4631:HOH:O	2.17	0.43
5:P:94:LEU:H	5:P:98:GLU:HB2	1.83	0.43
5:P:289:GLU:HG2	9:P:4194:HOH:O	2.18	0.43
2:C:336:VAL:HA	2:C:339:LEU:HD12	2.00	0.43
2:C:584:GLU:CD	2:C:584:GLU:N	2.75	0.43
2:C:802:ARG:HB2	9:C:9590:HOH:O	2.17	0.43
2:C:869:VAL:HG22	2:C:871:LEU:CD1	2.48	0.43
2:C:881:ASN:HD22	2:C:881:ASN:N	2.12	0.43
2:C:983:ILE:O	2:C:984:GLU:C	2.61	0.43
3:D:123:LEU:O	3:D:126:VAL:HB	2.19	0.43
3:D:193:PRO:HG3	9:D:3106:HOH:O	2.17	0.43
3:D:711:LEU:C	3:D:713:ILE:N	2.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1310:ARG:HE	3:D:1310:ARG:HB2	1.69	0.43
1:K:60:ASP:HA	9:K:3216:HOH:O	2.19	0.43
2:M:93:PRO:HB2	9:M:9852:HOH:O	2.19	0.43
2:M:103:LYS:HG3	9:M:2256:HOH:O	2.19	0.43
2:M:163:ILE:HG23	2:M:163:ILE:O	2.17	0.43
2:M:250:ARG:HB2	2:M:253:ALA:CB	2.49	0.43
2:M:305:PRO:O	2:M:308:ARG:HB3	2.18	0.43
2:M:498:GLN:CG	2:M:516:ARG:HE	2.31	0.43
2:M:999:HIS:HB3	2:M:1003:ASP:OD2	2.18	0.43
2:M:1105:LYS:HE3	9:M:9940:HOH:O	2.17	0.43
3:N:1147:ARG:H	3:N:1166:LEU:HG	1.83	0.43
5:P:276:ARG:HD2	9:P:2013:HOH:O	2.16	0.43
2:C:27:ARG:HG3	9:C:9641:HOH:O	2.19	0.43
2:C:73:LEU:HB2	9:C:2521:HOH:O	2.19	0.43
2:C:139:GLN:HG2	2:C:140:ILE:H	1.83	0.43
2:C:144:PRO:HA	2:C:163:ILE:O	2.19	0.43
2:C:256:TYR:HA	9:C:2199:HOH:O	2.17	0.43
2:C:737:LEU:O	2:C:738:ASP:C	2.61	0.43
2:C:1014:SER:HA	5:F:333:ILE:O	2.18	0.43
2:C:1034:GLU:HG3	2:C:1035:MET:H	1.83	0.43
3:D:460:ALA:O	3:D:464:LEU:HG	2.18	0.43
3:D:474:GLU:HG3	3:D:500:ARG:NE	2.32	0.43
3:D:523:ASP:HA	9:D:9853:HOH:O	2.18	0.43
3:D:658:LEU:HD23	3:D:661:MET:HE3	2.00	0.43
3:D:850:LEU:O	3:D:853:VAL:HB	2.18	0.43
3:D:925:GLU:O	3:D:928:ALA:HB3	2.18	0.43
3:D:1197:ARG:HG2	9:D:2561:HOH:O	2.18	0.43
3:D:1302:GLU:HG2	9:D:2309:HOH:O	2.18	0.43
3:D:1397:LYS:HE2	9:D:3297:HOH:O	2.17	0.43
4:E:45:ARG:HB3	9:E:9659:HOH:O	2.18	0.43
5:F:260:ILE:HG12	5:F:264:MET:HB2	2.01	0.43
5:F:273:ARG:HB3	9:F:9601:HOH:O	2.18	0.43
1:K:139:ASN:HB2	9:K:2209:HOH:O	2.18	0.43
1:K:176:ARG:NH1	9:K:2274:HOH:O	2.50	0.43
2:M:14:PRO:HG3	9:M:2533:HOH:O	2.18	0.43
2:M:54:ILE:HD11	2:M:56:GLU:OE2	2.18	0.43
2:M:575:GLN:HA	2:M:662:GLU:HG3	2.00	0.43
2:M:576:ALA:H	2:M:662:GLU:CD	2.27	0.43
2:M:811:PRO:HG3	9:M:9687:HOH:O	2.17	0.43
2:M:1001:VAL:HG13	9:M:9394:HOH:O	2.17	0.43
3:N:30:GLU:HB3	3:N:40:GLU:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:441:ARG:O	3:N:443:VAL:N	2.47	0.43
3:N:459:GLU:OE2	5:P:144:ILE:HD12	2.19	0.43
3:N:719:VAL:O	3:N:721:VAL:HG13	2.18	0.43
3:N:1225:ALA:O	3:N:1229:ILE:HG13	2.18	0.43
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.34	0.43
5:P:253:ASP:HA	5:P:259:ARG:HE	1.83	0.43
5:P:356:LYS:O	5:P:360:LYS:HG2	2.18	0.43
1:B:50:GLY:HA2	9:B:9569:HOH:O	2.18	0.43
1:B:86:VAL:HA	9:B:9736:HOH:O	2.18	0.43
2:C:218:VAL:HB	9:C:2262:HOH:O	2.18	0.43
2:C:671:ASN:ND2	2:C:993:PHE:HD2	2.16	0.43
2:C:817:PRO:C	2:C:819:VAL:H	2.27	0.43
2:C:897:LEU:HB2	9:C:9860:HOH:O	2.17	0.43
3:D:101:HIS:CD2	3:D:103:TRP:HB2	2.53	0.43
3:D:101:HIS:CD2	3:D:582:LEU:HD13	2.53	0.43
3:D:209:ARG:HB3	3:D:210:ARG:H	1.62	0.43
3:D:380:GLU:O	3:D:382:GLU:N	2.51	0.43
3:D:442:ASN:HA	9:D:2613:HOH:O	2.19	0.43
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.36	0.43
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.19	0.43
4:E:50:THR:HA	9:E:9570:HOH:O	2.19	0.43
5:F:329:TYR:O	5:F:332:PHE:HB2	2.19	0.43
5:F:387:GLY:HA2	9:F:9617:HOH:O	2.18	0.43
5:F:406:ARG:HA	5:F:409:LYS:HD3	2.01	0.43
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.89	0.43
2:M:515:ALA:C	2:M:516:ARG:HD3	2.43	0.43
2:M:627:ARG:HD3	9:M:2410:HOH:O	2.18	0.43
2:M:755:LEU:HD21	2:M:792:VAL:HG22	2.01	0.43
2:M:1086:ARG:NH1	9:M:9565:HOH:O	2.52	0.43
3:N:14:SER:OG	3:N:17:LYS:HB2	2.19	0.43
3:N:422:ALA:HB2	9:N:9378:HOH:O	2.18	0.43
3:N:695:ILE:O	3:N:696:HIS:C	2.62	0.43
3:N:796:ARG:NE	3:N:862:ASP:OD2	2.51	0.43
3:N:812:ALA:O	3:N:816:HIS:HB2	2.19	0.43
3:N:863:VAL:HA	9:N:9938:HOH:O	2.18	0.43
3:N:1080:GLY:O	3:N:1084:THR:HG23	2.19	0.43
3:N:1161:GLU:HB3	9:N:9583:HOH:O	2.17	0.43
3:N:1320:GLU:N	3:N:1323:GLN:NE2	2.67	0.43
3:N:1357:ARG:HB3	9:N:2893:HOH:O	2.18	0.43
5:P:288:TYR:HE2	5:P:305:GLU:HA	1.84	0.43
1:A:201:THR:HG22	1:A:203:GLY:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:95:TYR:HE2	9:C:9699:HOH:O	2.01	0.43
2:C:165:LEU:HB2	9:C:2287:HOH:O	2.18	0.43
2:C:188:LYS:HE2	9:C:2731:HOH:O	2.18	0.43
2:C:474:VAL:HB	2:C:479:VAL:HG12	1.99	0.43
2:C:534:VAL:N	2:C:538:GLN:NE2	2.67	0.43
2:C:734:LEU:O	2:C:735:ARG:C	2.62	0.43
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.49	0.43
3:D:231:VAL:HA	3:D:378:ILE:CB	2.49	0.43
3:D:484:PRO:HG3	9:D:3258:HOH:O	2.18	0.43
3:D:806:PHE:N	9:D:2133:HOH:O	2.50	0.43
3:D:960:LYS:HG2	3:D:964:LEU:CD1	2.49	0.43
3:D:968:ASP:O	3:D:971:LEU:HB3	2.19	0.43
3:D:1096:ARG:NH1	3:D:1096:ARG:HB2	2.33	0.43
3:D:1209:LEU:C	3:D:1211:MET:N	2.75	0.43
9:D:2183:HOH:O	5:F:349:LEU:HD13	2.19	0.43
9:D:2199:HOH:O	4:E:58:PRO:HA	2.19	0.43
4:E:45:ARG:HH22	4:E:72:ARG:HH21	1.66	0.43
5:F:142:ARG:HG3	9:F:2143:HOH:O	2.19	0.43
5:F:153:PRO:O	5:F:157:GLU:HG3	2.18	0.43
5:F:402:ASN:HB3	9:F:9689:HOH:O	2.17	0.43
5:F:419:ARG:HA	9:F:9727:HOH:O	2.18	0.43
1:L:47:SER:CB	1:L:217:ILE:HD13	2.48	0.43
1:L:55:SER:HB2	1:L:158:ILE:HB	2.01	0.43
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.53	0.43
1:L:227:ASN:HB2	9:L:1651:HOH:O	2.19	0.43
2:M:1085:PHE:HE1	2:M:1111:ILE:HG21	1.83	0.43
3:N:137:PRO:HG2	9:N:2197:HOH:O	2.18	0.43
3:N:447:VAL:HG23	3:N:448:GLU:N	2.34	0.43
3:N:684:LYS:HE3	9:N:2460:HOH:O	2.18	0.43
3:N:792:ILE:HG23	3:N:793:THR:N	2.32	0.43
3:N:1103:HIS:HA	3:N:1223:ILE:HD12	2.00	0.43
4:O:6:ILE:HG23	4:O:7:ASP:N	2.33	0.43
5:P:333:ILE:HA	5:P:334:PRO:HD3	1.86	0.43
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.99	0.43
2:C:64:LEU:HB2	2:C:359:MET:SD	2.59	0.43
2:C:274:ARG:N	2:C:288:ARG:HH22	2.17	0.43
2:C:279:GLU:HG3	2:C:493:ARG:NH2	2.33	0.43
2:C:396:ASP:OD1	2:C:402:SER:HB3	2.18	0.43
2:C:520:GLU:HB2	9:C:9578:HOH:O	2.19	0.43
2:C:773:LEU:HD21	5:F:354:LEU:HD11	2.00	0.43
2:C:861:LEU:HD21	2:C:925:TYR:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:155:ASP:HB3	9:D:2347:HOH:O	2.18	0.43
3:D:657:LEU:HG	3:D:661:MET:HE2	2.00	0.43
3:D:1431:THR:HB	3:D:1432:LYS:HE3	1.99	0.43
4:E:23:VAL:HG13	4:E:24:ALA:N	2.34	0.43
4:E:68:LEU:HA	4:E:73:LEU:HD12	2.00	0.43
5:F:291:ILE:CG2	5:F:304:VAL:HG21	2.48	0.43
1:K:88:ARG:NH2	9:K:1273:HOH:O	2.51	0.43
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.54	0.43
1:L:152:PRO:HB2	1:L:155:LYS:HG3	2.01	0.43
1:L:171:PHE:O	1:L:172:SER:C	2.62	0.43
2:M:21:ILE:H	2:M:21:ILE:CD1	2.30	0.43
2:M:42:VAL:HG13	2:M:268:ASP:OD2	2.18	0.43
2:M:564:MET:HE2	2:M:997:LEU:CD1	2.49	0.43
2:M:750:LYS:HG2	9:M:2076:HOH:O	2.18	0.43
2:M:790:LEU:HD12	2:M:790:LEU:HA	1.91	0.43
2:M:854:PRO:HB2	2:M:856:GLU:HB2	2.00	0.43
2:M:958:THR:HB	9:M:2134:HOH:O	2.18	0.43
2:M:1049:LEU:HD23	3:N:1472:ILE:HD11	2.00	0.43
2:M:1086:ARG:NH1	3:N:88:TYR:CZ	2.87	0.43
3:N:227:LEU:HA	9:P:1787:HOH:O	2.18	0.43
3:N:380:GLU:O	3:N:382:GLU:N	2.49	0.43
3:N:549:ASN:HD22	3:N:549:ASN:HA	1.65	0.43
3:N:601:ARG:CZ	3:N:613:ARG:HH21	2.31	0.43
3:N:1166:LEU:HD23	3:N:1166:LEU:N	2.27	0.43
5:P:83:GLN:O	5:P:86:HIS:HB2	2.19	0.43
5:P:138:SER:N	9:P:2295:HOH:O	2.52	0.43
5:P:309:LYS:HG3	9:P:5453:HOH:O	2.19	0.43
5:P:324:GLU:O	5:P:325:LYS:HD3	2.18	0.43
5:P:342:VAL:HG23	5:P:343:ASP:N	2.34	0.43
5:P:411:HIS:HB3	9:P:2127:HOH:O	2.17	0.43
1:A:10:VAL:O	1:A:12:THR:HG23	2.18	0.43
1:A:100:LEU:HD11	9:A:9576:HOH:O	2.18	0.43
1:B:1:MET:SD	1:B:5:LYS:HG2	2.59	0.43
2:C:549:PHE:HE2	2:C:887:GLU:HA	1.83	0.43
2:C:1083:GLU:OE1	2:C:1083:GLU:HA	2.17	0.43
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.48	0.43
3:D:402:PRO:HG2	3:D:444:VAL:HG11	2.01	0.43
3:D:414:ARG:HH11	3:D:414:ARG:HG3	1.82	0.43
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.47	0.43
3:D:965:GLU:O	3:D:968:ASP:HB3	2.18	0.43
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1047:LYS:HG2	3:D:1053:PHE:CZ	2.54	0.43
5:F:100:VAL:HG21	9:F:9872:HOH:O	2.17	0.43
5:F:151:LEU:O	5:F:155:THR:HB	2.19	0.43
5:F:155:THR:HG22	5:F:156:VAL:N	2.33	0.43
2:M:93:PRO:HG3	9:M:9555:HOH:O	2.19	0.43
2:M:160:ALA:CB	2:M:174:LEU:HD12	2.49	0.43
2:M:172:ILE:HG12	2:M:186:VAL:CG1	2.49	0.43
3:N:481:MET:HE2	3:N:481:MET:HB3	1.79	0.43
3:N:804:LEU:HD12	3:N:806:PHE:H	1.84	0.43
3:N:991:GLN:O	3:N:994:GLN:HB3	2.18	0.43
5:P:93:LEU:HD21	5:P:102:LEU:HD11	2.00	0.43
5:P:410:TYR:O	5:P:413:SER:HB2	2.19	0.43
1:A:41:ARG:HA	1:A:177:VAL:HG11	2.00	0.43
1:B:179:PHE:HB3	1:B:197:LEU:HB3	2.01	0.43
2:C:588:VAL:HG21	2:C:664:GLY:O	2.19	0.43
2:C:884:GLN:HG3	2:C:885:ILE:HD13	2.01	0.43
2:C:1002:GLU:HG3	3:D:744:GLN:NE2	2.33	0.43
2:C:1013:TYR:HE1	2:C:1020:PRO:HG3	1.84	0.43
3:D:30:GLU:HB3	3:D:40:GLU:CB	2.49	0.43
3:D:62:LYS:HA	9:D:2796:HOH:O	2.19	0.43
3:D:138:LYS:NZ	9:D:2617:HOH:O	2.52	0.43
3:D:213:VAL:HG22	9:D:2107:HOH:O	2.17	0.43
3:D:401:TYR:N	3:D:402:PRO:HD3	2.34	0.43
3:D:601:ARG:NH2	3:D:613:ARG:HE	2.17	0.43
3:D:658:LEU:O	3:D:661:MET:HB2	2.19	0.43
3:D:796:ARG:HD3	3:D:862:ASP:HA	2.00	0.43
3:D:1378:TYR:HB2	9:D:9729:HOH:O	2.19	0.43
4:E:59:ASN:N	9:E:9558:HOH:O	2.52	0.43
5:F:185:GLN:HB3	9:F:9576:HOH:O	2.18	0.43
1:K:25:LEU:HD12	9:L:2122:HOH:O	2.19	0.43
1:K:43:ILE:HD11	1:L:35:THR:HG21	2.01	0.43
1:K:72:LYS:HZ1	2:M:644:VAL:HG12	1.83	0.43
1:L:70:GLY:HA3	9:L:1193:HOH:O	2.19	0.43
1:L:128:HIS:NE2	1:L:131:THR:HG23	2.34	0.43
2:M:166:PRO:HD2	9:M:9325:HOH:O	2.18	0.43
2:M:204:GLN:HG3	9:M:2070:HOH:O	2.19	0.43
2:M:288:ARG:HG3	9:M:9500:HOH:O	2.18	0.43
2:M:308:ARG:HD3	9:M:9332:HOH:O	2.19	0.43
2:M:625:LEU:O	2:M:627:ARG:N	2.52	0.43
2:M:813:VAL:HG23	9:M:9381:HOH:O	2.19	0.43
2:M:855:VAL:CG2	2:M:866:PRO:HG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1020:PRO:HG3	3:N:624:ASP:OD1	2.19	0.43
3:N:34:TYR:O	3:N:35:ARG:C	2.62	0.43
3:N:122:GLU:HB2	9:N:9548:HOH:O	2.17	0.43
3:N:402:PRO:HG2	3:N:444:VAL:HG11	2.01	0.43
3:N:601:ARG:NH1	3:N:605:ASP:HB3	2.33	0.43
3:N:710:ARG:NH1	9:N:9333:HOH:O	2.46	0.43
3:N:821:VAL:HB	9:N:9577:HOH:O	2.17	0.43
3:N:1098:LEU:HD12	3:N:1098:LEU:N	2.34	0.43
3:N:1211:MET:HE1	4:O:16:LYS:CD	2.49	0.43
3:N:1287:GLU:N	9:N:9657:HOH:O	2.52	0.43
3:N:1412:LYS:HD3	9:N:2853:HOH:O	2.19	0.43
9:N:2509:HOH:O	5:P:94:LEU:HD11	2.18	0.43
4:O:54:LEU:HD11	9:O:4249:HOH:O	2.18	0.43
1:A:22:GLU:HG3	9:A:9810:HOH:O	2.19	0.42
1:A:85:LEU:HD12	1:A:124:ASN:CB	2.49	0.42
1:A:88:ARG:HH11	1:A:90:LEU:HD23	1.83	0.42
1:A:91:ASN:ND2	1:A:92:PRO:HD2	2.34	0.42
1:B:92:PRO:HB3	9:B:9565:HOH:O	2.19	0.42
2:C:118:ILE:HA	2:C:119:PRO:HD3	1.92	0.42
2:C:146:VAL:HB	2:C:281:LEU:HD21	2.01	0.42
2:C:404:LEU:HA	2:C:407:LYS:CE	2.49	0.42
2:C:536:PRO:HD2	2:C:537:LYS:HZ1	1.84	0.42
2:C:703:ILE:N	9:C:9875:HOH:O	2.51	0.42
2:C:728:HIS:HA	9:C:2290:HOH:O	2.19	0.42
2:C:783:ARG:O	2:C:785:VAL:N	2.50	0.42
2:C:945:ARG:HH11	2:C:945:ARG:CB	2.20	0.42
3:D:13:ALA:HB1	3:D:18:ILE:HD11	2.01	0.42
3:D:166:GLN:HG3	9:D:2963:HOH:O	2.19	0.42
3:D:423:ASP:HA	9:D:2049:HOH:O	2.18	0.42
3:D:424:GLY:N	3:D:437:VAL:HG23	2.34	0.42
3:D:827:ILE:HB	3:D:828:LYS:HD3	2.01	0.42
3:D:829:VAL:O	3:D:835:SER:HB2	2.19	0.42
3:D:885:ILE:HG23	3:D:937:TYR:CE1	2.54	0.42
3:D:965:GLU:OE1	3:D:968:ASP:HB3	2.18	0.42
3:D:1211:MET:HB3	3:D:1213:ARG:NE	2.33	0.42
3:D:1333:HIS:N	9:D:9823:HOH:O	2.52	0.42
3:D:1436:SER:HB3	9:D:9873:HOH:O	2.19	0.42
4:E:91:ARG:HD2	9:E:9580:HOH:O	2.17	0.42
5:F:287:THR:C	5:F:289:GLU:N	2.77	0.42
5:F:326:ASP:O	5:F:328:PHE:HD1	2.01	0.42
1:K:14:ARG:HG3	9:K:6203:HOH:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:34:VAL:HG22	1:K:181:VAL:HG21	2.00	0.42
1:K:182:GLU:N	9:K:1076:HOH:O	2.52	0.42
1:L:176:ARG:NH1	3:N:884:ARG:CZ	2.82	0.42
2:M:148:PHE:HA	9:M:9475:HOH:O	2.19	0.42
2:M:262:ALA:HB3	9:M:9600:HOH:O	2.18	0.42
2:M:427:VAL:HG23	9:M:2524:HOH:O	2.19	0.42
2:M:918:LEU:HD23	2:M:968:LEU:CA	2.49	0.42
3:N:39:PRO:HB2	9:N:9225:HOH:O	2.19	0.42
3:N:69:GLU:HA	9:N:9383:HOH:O	2.17	0.42
3:N:834:THR:HA	3:N:838:ARG:NH2	2.35	0.42
3:N:1459:LEU:HG	9:N:9608:HOH:O	2.19	0.42
5:P:113:ILE:HG23	5:P:127:ILE:CB	2.49	0.42
5:P:316:SER:HB3	5:P:319:THR:OG1	2.19	0.42
5:P:332:PHE:HD1	9:P:1466:HOH:O	2.00	0.42
1:A:128:HIS:O	1:A:129:ILE:HD13	2.19	0.42
1:A:142:VAL:HG23	1:A:142:VAL:O	2.18	0.42
1:B:5:LYS:O	1:B:8:ALA:HB2	2.20	0.42
1:B:80:LEU:HG	3:D:844:ALA:CB	2.43	0.42
1:B:85:LEU:HD12	1:B:124:ASN:CB	2.49	0.42
2:C:288:ARG:HA	2:C:288:ARG:NH1	2.34	0.42
2:C:308:ARG:HB2	9:C:9614:HOH:O	2.18	0.42
2:C:614:ARG:HD3	9:C:9979:HOH:O	2.19	0.42
2:C:679:PHE:O	3:D:943:THR:HG22	2.19	0.42
2:C:776:SER:HA	2:C:780:GLU:CB	2.44	0.42
2:C:798:GLY:HA3	2:C:828:ALA:O	2.18	0.42
2:C:1009:SER:HB3	9:C:9882:HOH:O	2.19	0.42
3:D:2:LYS:HB3	9:D:2307:HOH:O	2.17	0.42
3:D:101:HIS:HD2	3:D:582:LEU:HD13	1.84	0.42
3:D:127:LEU:HG	3:D:128:TYR:HD1	1.83	0.42
3:D:195:VAL:HG13	9:D:2043:HOH:O	2.18	0.42
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.19	0.42
3:D:520:LEU:CD1	3:D:521:PRO:HD2	2.40	0.42
3:D:669:ASN:O	3:D:672:ALA:HB3	2.19	0.42
3:D:866:VAL:O	3:D:873:LEU:HD12	2.19	0.42
3:D:1447:LEU:O	3:D:1448:THR:C	2.61	0.42
3:D:1486:VAL:HG22	9:D:9984:HOH:O	2.19	0.42
5:F:94:LEU:H	5:F:98:GLU:HB2	1.83	0.42
5:F:111:GLU:HB3	9:F:9921:HOH:O	2.19	0.42
5:F:208:SER:HB2	5:F:211:ASP:OD1	2.19	0.42
5:F:369:LEU:HD21	5:F:401:GLU:OE1	2.19	0.42
1:K:39:PRO:HG3	1:L:39:PRO:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:53:VAL:HG21	1:K:82:LEU:HB3	2.00	0.42
1:L:48:ILE:HD13	1:L:210:ALA:HB1	2.00	0.42
1:L:61:VAL:HG13	9:L:6647:HOH:O	2.20	0.42
1:L:128:HIS:HB2	9:L:7862:HOH:O	2.18	0.42
2:M:208:ALA:HA	2:M:218:VAL:CG2	2.49	0.42
2:M:234:ALA:HB2	9:M:9679:HOH:O	2.19	0.42
2:M:313:LEU:C	2:M:315:ALA:N	2.77	0.42
2:M:651:LYS:HG2	9:M:9533:HOH:O	2.19	0.42
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.19	0.42
3:N:79:GLU:HG2	9:N:2381:HOH:O	2.18	0.42
3:N:176:ASP:HA	9:N:9302:HOH:O	2.19	0.42
3:N:206:ARG:HB2	9:N:2716:HOH:O	2.19	0.42
3:N:489:ARG:NH1	9:N:9727:HOH:O	2.51	0.42
3:N:537:THR:HA	5:P:317:LEU:HD12	2.01	0.42
3:N:566:ILE:HG23	5:P:214:GLN:OE1	2.19	0.42
3:N:738:ALA:HB2	9:N:9228:HOH:O	2.19	0.42
3:N:1094:LEU:HD23	3:N:1230:GLY:HA2	2.01	0.42
3:N:1389:LEU:O	3:N:1391:GLU:N	2.52	0.42
5:P:93:LEU:HB2	9:P:2248:HOH:O	2.19	0.42
5:P:113:ILE:HA	5:P:116:LEU:HD12	2.01	0.42
1:A:133:GLU:HB3	9:A:9624:HOH:O	2.18	0.42
1:B:133:GLU:HG2	9:B:9650:HOH:O	2.19	0.42
2:C:72:ARG:HD3	9:C:2792:HOH:O	2.18	0.42
2:C:77:PRO:HD2	2:C:91:GLN:O	2.19	0.42
2:C:151:ASP:CG	2:C:152:PRO:HD2	2.45	0.42
2:C:384:GLU:HA	2:C:388:ARG:NH2	2.34	0.42
2:C:734:LEU:HD12	9:C:9587:HOH:O	2.17	0.42
2:C:737:LEU:HD22	2:C:741:GLY:O	2.19	0.42
2:C:890:LEU:HG	2:C:901:TYR:CD1	2.53	0.42
2:C:971:LYS:HG2	2:C:988:VAL:HG12	2.02	0.42
3:D:190:GLU:HG3	3:D:210:ARG:HE	1.84	0.42
3:D:613:ARG:HG3	3:D:613:ARG:HH11	1.83	0.42
3:D:890:VAL:HG11	3:D:922:LEU:HD13	2.01	0.42
3:D:898:GLU:HA	9:D:2154:HOH:O	2.19	0.42
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.50	0.42
3:D:1428:ALA:O	3:D:1430:SER:N	2.52	0.42
3:D:1434:TRP:CD1	3:D:1434:TRP:C	2.98	0.42
5:F:397:ILE:HD13	9:F:9936:HOH:O	2.19	0.42
5:F:416:ARG:HB3	9:F:9972:HOH:O	2.19	0.42
1:K:209:GLU:O	1:K:213:GLN:HG3	2.19	0.42
1:K:221:HIS:ND1	1:K:224:TYR:HE2	2.15	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:139:GLN:HA	2:M:411:SER:O	2.19	0.42
2:M:325:ILE:H	2:M:325:ILE:HG13	1.60	0.42
2:M:672:VAL:HG23	2:M:868:ASP:OD2	2.19	0.42
2:M:915:LYS:HB3	9:M:9311:HOH:O	2.19	0.42
3:N:58:CYS:SG	3:N:59:ALA:N	2.92	0.42
3:N:119:SER:N	3:N:123:LEU:HB2	2.34	0.42
3:N:424:GLY:CA	3:N:436:GLU:HA	2.37	0.42
3:N:669:ASN:O	3:N:672:ALA:HB3	2.18	0.42
3:N:813:LEU:HD11	9:N:9724:HOH:O	2.19	0.42
3:N:988:ARG:HD2	3:N:992:ILE:HD12	2.00	0.42
3:N:1209:LEU:C	3:N:1211:MET:N	2.76	0.42
5:P:207:LEU:HD11	5:P:251:ILE:HA	2.01	0.42
5:P:403:LYS:HA	5:P:403:LYS:HD3	1.84	0.42
1:A:72:LYS:HA	9:C:9832:HOH:O	2.18	0.42
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.45	0.42
2:C:793:PRO:HB2	9:C:9660:HOH:O	2.18	0.42
2:C:877:PRO:HD3	3:D:949:ILE:HD11	1.99	0.42
2:C:911:GLU:HB3	2:C:912:PRO:HD3	2.01	0.42
2:C:1103:ASP:CG	2:C:1104:GLU:N	2.76	0.42
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.50	0.42
3:D:105:VAL:HG12	3:D:106:LYS:HE3	2.01	0.42
3:D:212:ARG:HD2	3:D:445:ARG:NH1	2.34	0.42
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.85	0.42
3:D:559:ALA:C	3:D:561:GLY:H	2.28	0.42
3:D:583:ASP:HA	3:D:602:SER:CB	2.49	0.42
3:D:799:LYS:HD3	9:D:2211:HOH:O	2.18	0.42
3:D:1140:ILE:HD13	3:D:1175:ILE:HG12	2.02	0.42
3:D:1223:ILE:CD1	3:D:1462:LEU:HD12	2.50	0.42
3:D:1490:LYS:HB3	9:D:2818:HOH:O	2.19	0.42
5:F:159:ILE:O	5:F:163:LEU:HG	2.20	0.42
1:L:34:VAL:HG22	1:L:181:VAL:HG21	2.01	0.42
2:M:47:ALA:O	2:M:50:GLU:HB2	2.18	0.42
2:M:209:ARG:O	2:M:213:ALA:HB2	2.19	0.42
2:M:299:LYS:HE2	9:M:9257:HOH:O	2.20	0.42
2:M:321:GLU:HA	9:M:9664:HOH:O	2.20	0.42
2:M:617:ASP:HB2	9:M:9795:HOH:O	2.18	0.42
2:M:948:GLU:HB2	2:M:955:PRO:HG3	2.01	0.42
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	2.01	0.42
3:N:47:GLU:HA	3:N:51:GLY:O	2.19	0.42
3:N:139:GLY:HA3	3:N:452:ILE:HD12	2.01	0.42
3:N:167:GLU:HG2	9:N:2697:HOH:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:476:GLU:HA	9:N:9645:HOH:O	2.19	0.42
3:N:553:ARG:HE	5:P:215:GLU:CD	2.28	0.42
3:N:703:ASN:HD22	3:N:703:ASN:HA	1.73	0.42
3:N:850:LEU:O	3:N:853:VAL:HB	2.19	0.42
3:N:1442:ASN:ND2	3:N:1442:ASN:H	2.17	0.42
1:A:34:VAL:HG21	2:C:939:ARG:HD2	2.01	0.42
1:A:154:GLU:H	1:A:154:GLU:CD	2.28	0.42
1:A:227:ASN:N	1:A:227:ASN:ND2	2.61	0.42
2:C:473:ARG:NE	2:C:531:PHE:HE1	2.11	0.42
2:C:478:VAL:CG1	2:C:506:ASN:HB3	2.49	0.42
2:C:557:ARG:CZ	2:C:560:MET:SD	3.07	0.42
2:C:578:VAL:CG2	2:C:579:VAL:HG12	2.49	0.42
2:C:606:VAL:HG22	2:C:645:VAL:HG13	2.01	0.42
2:C:678:PRO:O	3:D:943:THR:HA	2.19	0.42
3:D:15:PRO:HG3	9:D:9724:HOH:O	2.20	0.42
3:D:162:ARG:HB2	3:D:162:ARG:NH1	2.34	0.42
3:D:517:VAL:HG12	3:D:518:PRO:O	2.20	0.42
3:D:656:PHE:HB3	3:D:694:VAL:HG11	2.01	0.42
3:D:679:ARG:HH12	3:D:681:ARG:CD	2.24	0.42
3:D:1087:ARG:HH21	3:D:1238:MET:HB2	1.84	0.42
3:D:1138:ALA:O	3:D:1141:GLU:HB2	2.20	0.42
4:E:54:LEU:HG	4:E:58:PRO:CD	2.48	0.42
5:F:187:LEU:HD23	5:F:191:ASN:ND2	2.35	0.42
5:F:276:ARG:HG2	9:F:9570:HOH:O	2.18	0.42
2:M:15:LEU:HB2	2:M:586:ARG:NH2	2.33	0.42
2:M:30:LEU:HD11	9:M:9879:HOH:O	2.19	0.42
2:M:395:LYS:CG	2:M:397:GLU:HG2	2.47	0.42
2:M:418:LEU:HB3	9:M:9342:HOH:O	2.19	0.42
2:M:713:ARG:HG2	2:M:713:ARG:NH1	2.34	0.42
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.55	0.42
2:M:928:LYS:HA	9:M:9477:HOH:O	2.20	0.42
9:M:9885:HOH:O	3:N:628:ARG:HD3	2.19	0.42
3:N:179:VAL:HG23	9:N:2700:HOH:O	2.18	0.42
3:N:858:VAL:HG12	3:N:859:ASP:O	2.19	0.42
3:N:1197:ARG:HD2	3:N:1396:GLU:HB2	2.02	0.42
3:N:1331:ASP:OD1	3:N:1333:HIS:HB2	2.20	0.42
1:B:48:ILE:HD13	1:B:210:ALA:HB1	2.02	0.42
1:B:122:ILE:HD12	9:B:9579:HOH:O	2.18	0.42
2:C:115:LEU:H	2:C:115:LEU:HG	1.70	0.42
2:C:151:ASP:HB2	2:C:157:ARG:O	2.19	0.42
2:C:247:PRO:HA	2:C:248:PRO:HD3	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:441:VAL:HG23	9:C:2264:HOH:O	2.20	0.42
2:C:486:MET:HE1	2:C:494:TYR:CD1	2.54	0.42
2:C:525:SER:HA	9:C:9711:HOH:O	2.19	0.42
2:C:530:GLU:O	2:C:531:PHE:HD1	2.03	0.42
2:C:601:GLY:O	2:C:648:ARG:HA	2.19	0.42
3:D:48:ARG:HA	9:D:2217:HOH:O	2.19	0.42
3:D:65:ARG:HG3	3:D:66:GLN:H	1.84	0.42
3:D:112:ILE:HD11	3:D:116:LEU:HD12	2.00	0.42
3:D:205:TYR:CE2	3:D:393:ILE:HG12	2.55	0.42
3:D:421:LEU:HD21	9:D:9882:HOH:O	2.19	0.42
3:D:819:GLY:HA3	9:D:3219:HOH:O	2.18	0.42
3:D:1193:THR:N	9:D:9658:HOH:O	2.52	0.42
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	2.01	0.42
3:D:1478:SER:C	3:D:1480:PHE:H	2.27	0.42
4:E:10:PHE:O	4:E:13:VAL:HG22	2.20	0.42
5:F:164:LYS:HA	5:F:171:LYS:HZ2	1.81	0.42
5:F:216:GLY:O	5:F:243:ILE:HG12	2.19	0.42
2:M:71:TYR:H	2:M:71:TYR:HD2	1.67	0.42
2:M:299:LYS:HG3	9:M:9257:HOH:O	2.18	0.42
2:M:435:TYR:CE1	2:M:539:VAL:HG22	2.54	0.42
2:M:651:LYS:HA	9:M:2442:HOH:O	2.19	0.42
2:M:685:GLU:HG3	3:N:783:ARG:HD2	2.01	0.42
2:M:1043:TYR:CE2	3:N:763:MET:HG3	2.54	0.42
2:M:1105:LYS:HB2	2:M:1107:ASN:ND2	2.35	0.42
3:N:231:VAL:HA	3:N:378:ILE:CB	2.50	0.42
3:N:426:LYS:HB3	3:N:426:LYS:HE2	1.90	0.42
3:N:546:ARG:O	3:N:550:ARG:HG2	2.20	0.42
3:N:559:ALA:C	3:N:561:GLY:H	2.28	0.42
3:N:699:VAL:HB	3:N:716:PHE:O	2.20	0.42
3:N:1121:PRO:C	3:N:1122:LEU:HD12	2.44	0.42
5:P:201:LYS:HD2	9:P:8888:HOH:O	2.19	0.42
5:P:358:LEU:O	5:P:358:LEU:HD23	2.19	0.42
1:A:34:VAL:HG23	9:A:9562:HOH:O	2.18	0.42
1:A:74:ASP:HB2	9:A:9794:HOH:O	2.19	0.42
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.53	0.42
1:B:75:VAL:O	1:B:79:ILE:HG23	2.19	0.42
1:B:90:LEU:CD2	1:B:91:ASN:HD22	2.33	0.42
2:C:514:VAL:HG13	9:C:9943:HOH:O	2.19	0.42
2:C:572:ILE:HG13	2:C:573:ARG:N	2.34	0.42
2:C:744:ARG:NE	9:C:9710:HOH:O	2.50	0.42
2:C:948:GLU:HB2	2:C:955:PRO:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.54	0.42
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.49	0.42
3:D:205:TYR:HA	3:D:393:ILE:HD13	2.01	0.42
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.49	0.42
3:D:644:LEU:O	3:D:721:VAL:HG22	2.20	0.42
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.83	0.42
3:D:894:LYS:HB3	9:D:2360:HOH:O	2.19	0.42
3:D:1194:CYS:HB2	9:D:2009:HOH:O	2.19	0.42
3:D:1250:ALA:HB3	9:D:3244:HOH:O	2.19	0.42
3:D:1275:SER:HA	3:D:1303:TYR:CE1	2.54	0.42
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	2.01	0.42
4:E:40:LEU:HB2	4:E:45:ARG:CZ	2.49	0.42
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.54	0.42
1:K:33:GLY:HA2	1:K:195:LEU:HD22	2.01	0.42
1:K:178:ALA:HB2	2:M:864:GLY:CA	2.50	0.42
1:L:69:PRO:C	1:L:71:VAL:H	2.28	0.42
1:L:103:ALA:HB1	9:L:4720:HOH:O	2.20	0.42
2:M:165:LEU:HD12	2:M:166:PRO:HA	2.01	0.42
2:M:292:ARG:NH2	2:M:299:LYS:HD3	2.35	0.42
2:M:480:THR:HG22	2:M:481:ASP:N	2.35	0.42
2:M:517:ARG:O	2:M:519:GLY:N	2.52	0.42
2:M:724:ARG:HB2	2:M:740:GLU:CA	2.43	0.42
3:N:9:ARG:HG3	3:N:1455:LYS:C	2.45	0.42
3:N:26:VAL:HG23	9:N:9259:HOH:O	2.19	0.42
3:N:480:GLU:O	3:N:484:PRO:HD2	2.19	0.42
3:N:559:ALA:O	5:P:132:ARG:NH1	2.52	0.42
3:N:645:PRO:HG2	3:N:724:GLN:O	2.19	0.42
3:N:1447:LEU:O	3:N:1448:THR:C	2.62	0.42
4:O:84:ARG:HD2	9:O:3299:HOH:O	2.19	0.42
5:P:149:GLU:HB2	9:P:3104:HOH:O	2.18	0.42
1:A:72:LYS:N	9:A:9656:HOH:O	2.53	0.42
1:A:74:ASP:CB	9:A:9794:HOH:O	2.67	0.42
2:C:492:ASP:CA	2:C:518:LYS:HB3	2.47	0.42
2:C:599:GLU:HB2	9:C:2285:HOH:O	2.20	0.42
2:C:625:LEU:O	2:C:627:ARG:N	2.53	0.42
3:D:1156:LEU:HD11	3:D:1177:ALA:HA	2.02	0.42
3:D:1300:SER:HB3	9:D:9737:HOH:O	2.20	0.42
3:D:1389:LEU:O	3:D:1391:GLU:N	2.53	0.42
3:D:1503:VAL:HG21	9:D:9933:HOH:O	2.20	0.42
4:E:66:LYS:HB2	4:E:66:LYS:NZ	2.35	0.42
1:K:198:ARG:NE	9:K:1703:HOH:O	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:16:PRO:HB3	2:M:460:ARG:NH1	2.35	0.42
2:M:46:ALA:O	2:M:50:GLU:HG3	2.20	0.42
2:M:182:VAL:HG12	9:M:9802:HOH:O	2.19	0.42
2:M:575:GLN:HE21	2:M:671:ASN:HB2	1.85	0.42
2:M:753:ASP:OD2	3:N:681:ARG:HD2	2.20	0.42
2:M:939:ARG:CZ	9:M:9419:HOH:O	2.66	0.42
3:N:10:ILE:HD11	3:N:1434:TRP:NE1	2.35	0.42
3:N:44:LEU:HG	9:N:9241:HOH:O	2.20	0.42
3:N:93:ILE:HG13	3:N:519:VAL:CG2	2.50	0.42
3:N:422:ALA:H	3:N:427:VAL:CG1	2.33	0.42
3:N:434:ARG:HB2	3:N:447:VAL:HG13	2.02	0.42
3:N:528:VAL:O	3:N:535:PHE:HA	2.20	0.42
3:N:728:LEU:HD12	3:N:729:HIS:N	2.34	0.42
3:N:1020:LEU:HG	3:N:1035:ILE:HD12	2.00	0.42
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.28	0.42
5:P:207:LEU:HD12	5:P:251:ILE:HG12	2.01	0.42
1:A:177:VAL:O	2:C:864:GLY:CA	2.68	0.42
1:A:177:VAL:HG12	1:A:178:ALA:N	2.35	0.42
2:C:418:LEU:HD12	9:C:2110:HOH:O	2.20	0.42
2:C:471:TYR:HB3	2:C:531:PHE:CD2	2.55	0.42
2:C:627:ARG:CG	2:C:628:PHE:H	2.33	0.42
2:C:714:ASP:HB2	2:C:818:GLY:O	2.20	0.42
2:C:906:PHE:N	9:C:9623:HOH:O	2.53	0.42
2:C:1014:SER:N	9:C:2050:HOH:O	2.52	0.42
2:C:1082:PRO:HA	9:C:9720:HOH:O	2.20	0.42
3:D:43:GLY:N	9:D:9655:HOH:O	2.53	0.42
3:D:111:LYS:HD3	3:D:111:LYS:HA	1.87	0.42
3:D:126:VAL:CG1	3:D:132:TYR:HB2	2.50	0.42
3:D:160:GLU:HA	9:D:2658:HOH:O	2.18	0.42
3:D:172:PRO:HA	3:D:173:PRO:HD3	1.75	0.42
3:D:400:VAL:C	3:D:402:PRO:HD3	2.45	0.42
3:D:525:ARG:N	3:D:526:PRO:HD3	2.35	0.42
3:D:601:ARG:HH22	3:D:613:ARG:HB2	1.84	0.42
3:D:1166:LEU:HD23	3:D:1166:LEU:N	2.30	0.42
4:E:41:GLU:HA	4:E:45:ARG:HG3	2.02	0.42
4:E:54:LEU:HA	4:E:58:PRO:HG2	2.02	0.42
4:E:88:GLU:CD	9:E:9574:HOH:O	2.62	0.42
5:F:248:ASN:HB2	9:F:9828:HOH:O	2.19	0.42
1:K:106:PRO:HA	1:K:132:LEU:O	2.20	0.42
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.55	0.42
2:M:172:ILE:HG13	9:M:9595:HOH:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:207:LEU:HD13	2:M:221:LEU:CD1	2.50	0.42
2:M:649:VAL:HG12	2:M:650:ARG:HH21	1.85	0.42
2:M:913:GLU:O	2:M:916:GLU:HB3	2.20	0.42
2:M:929:ARG:HD3	9:M:9262:HOH:O	2.18	0.42
9:M:9896:HOH:O	5:P:373:LYS:HD2	2.19	0.42
3:N:438:ASP:OD2	3:N:440:VAL:HB	2.19	0.42
3:N:660:LYS:O	3:N:663:GLU:HB2	2.20	0.42
3:N:692:GLU:CD	3:N:720:LEU:HD12	2.45	0.42
3:N:751:LEU:HD13	9:N:9380:HOH:O	2.19	0.42
3:N:838:ARG:HH11	3:N:863:VAL:HB	1.85	0.42
3:N:860:LEU:O	3:N:876:SER:OG	2.37	0.42
3:N:1033:GLN:O	3:N:1037:GLN:HG3	2.20	0.42
5:P:371:LEU:HD12	9:P:1495:HOH:O	2.19	0.42
1:A:30:ARG:HD2	9:D:9595:HOH:O	2.20	0.42
2:C:10:ARG:HA	2:C:10:ARG:HD2	1.80	0.42
2:C:359:MET:HB2	9:C:2205:HOH:O	2.18	0.42
2:C:780:GLU:HG3	2:C:781:LYS:N	2.31	0.42
2:C:1085:PHE:CE2	3:D:1468:LEU:HA	2.54	0.42
3:D:55:ASP:HA	9:D:9689:HOH:O	2.20	0.42
3:D:445:ARG:HD3	9:D:2510:HOH:O	2.20	0.42
3:D:631:ILE:HG21	3:D:745:MET:CG	2.47	0.42
3:D:914:LEU:HD23	3:D:914:LEU:O	2.19	0.42
3:D:983:LEU:N	9:D:2242:HOH:O	2.48	0.42
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.67	0.42
3:D:1284:GLU:OE1	3:D:1284:GLU:HA	2.20	0.42
3:D:1466:VAL:HG22	3:D:1472:ILE:CD1	2.50	0.42
4:E:43:GLU:H	4:E:43:GLU:HG2	1.66	0.42
4:E:51:LEU:HD12	4:E:52:GLU:H	1.83	0.42
5:F:151:LEU:HB2	5:F:155:THR:CB	2.50	0.42
5:F:196:VAL:O	5:F:200:LYS:HB2	2.19	0.42
5:F:419:ARG:HG2	5:F:419:ARG:NH1	2.35	0.42
1:L:85:LEU:HD12	1:L:124:ASN:CB	2.50	0.42
1:L:175:ARG:O	3:N:851:LEU:HD21	2.20	0.42
1:L:176:ARG:NH1	3:N:884:ARG:NE	2.63	0.42
2:M:192:PRO:CB	2:M:195:LEU:HD13	2.44	0.42
2:M:248:PRO:HD3	9:M:9536:HOH:O	2.18	0.42
2:M:585:GLU:CG	2:M:586:ARG:H	2.33	0.42
2:M:601:GLY:O	2:M:648:ARG:HA	2.20	0.42
2:M:850:ALA:HB1	3:N:632:VAL:HG13	2.02	0.42
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.20	0.42
3:N:16:GLU:O	3:N:19:ARG:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:125:GLN:HG3	9:N:9692:HOH:O	2.20	0.42
3:N:128:TYR:HD2	3:N:128:TYR:HA	1.64	0.42
3:N:417:PRO:HB3	9:P:4142:HOH:O	2.20	0.42
3:N:565:ILE:H	3:N:565:ILE:CD1	2.20	0.42
3:N:715:ALA:HB3	3:N:764:LEU:CA	2.35	0.42
3:N:1234:THR:HA	9:N:2227:HOH:O	2.19	0.42
3:N:1314:LYS:HG3	9:N:2352:HOH:O	2.20	0.42
3:N:1428:ALA:O	3:N:1430:SER:N	2.53	0.42
5:P:256:ARG:HD3	5:P:260:ILE:HG22	2.02	0.42
5:P:367:MET:O	5:P:370:LYS:HG2	2.20	0.42
5:P:393:THR:CG2	5:P:394:ARG:N	2.83	0.42
1:A:106:PRO:HA	1:A:132:LEU:O	2.20	0.41
1:A:217:ILE:HG13	1:A:217:ILE:H	1.70	0.41
2:C:84:ARG:HH12	2:C:128:ILE:CD1	2.33	0.41
2:C:110:GLU:HB3	2:C:368:THR:HG22	2.02	0.41
2:C:244:PRO:CD	2:C:245:GLY:N	2.82	0.41
2:C:264:PRO:HB2	9:C:9902:HOH:O	2.20	0.41
2:C:405:ARG:HD2	9:C:9844:HOH:O	2.19	0.41
2:C:431:HIS:O	2:C:434:HIS:HB2	2.19	0.41
2:C:872:ASN:HA	2:C:873:PRO:HD3	1.89	0.41
3:D:33:ASN:HA	9:F:9722:HOH:O	2.19	0.41
3:D:434:ARG:CB	3:D:447:VAL:HG13	2.49	0.41
3:D:486:ARG:HH21	3:D:489:ARG:CD	2.32	0.41
3:D:792:ILE:O	3:D:878:GLY:HA3	2.20	0.41
3:D:871:LYS:CG	3:D:873:LEU:HG	2.49	0.41
3:D:1274:ILE:H	3:D:1274:ILE:HG13	1.58	0.41
4:E:48:MET:HG2	4:E:49:GLN:N	2.34	0.41
5:F:104:ARG:NH2	9:F:9811:HOH:O	2.52	0.41
5:F:289:GLU:O	5:F:293:GLU:HG3	2.19	0.41
5:F:363:GLU:HA	9:F:9838:HOH:O	2.20	0.41
1:K:86:VAL:HG13	1:K:86:VAL:O	2.20	0.41
1:L:5:LYS:O	1:L:8:ALA:HB2	2.20	0.41
1:L:90:LEU:HB3	9:L:1485:HOH:O	2.19	0.41
2:M:18:LEU:HD21	2:M:542:VAL:HG11	2.01	0.41
2:M:246:ASP:HB2	9:M:9223:HOH:O	2.19	0.41
2:M:514:VAL:HG12	2:M:515:ALA:N	2.35	0.41
2:M:897:LEU:HB3	2:M:899:GLN:CG	2.50	0.41
2:M:1037:VAL:O	2:M:1041:GLU:HG3	2.20	0.41
3:N:30:GLU:HB3	3:N:40:GLU:CG	2.50	0.41
3:N:112:ILE:HD11	3:N:124:GLU:CG	2.50	0.41
3:N:168:THR:HB	3:N:170:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:186:VAL:HG23	3:N:211:VAL:CG1	2.49	0.41
3:N:399:ARG:HB3	3:N:402:PRO:CG	2.46	0.41
3:N:656:PHE:HB3	3:N:694:VAL:HG11	2.01	0.41
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	2.02	0.41
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.20	0.41
4:O:87:LYS:HE2	4:O:91:ARG:NH2	2.28	0.41
5:P:80:PRO:O	5:P:83:GLN:HB2	2.20	0.41
5:P:253:ASP:HB3	5:P:259:ARG:HH21	1.85	0.41
5:P:291:ILE:CG2	5:P:304:VAL:HG21	2.49	0.41
5:P:394:ARG:HA	5:P:397:ILE:CD1	2.45	0.41
1:A:3:ASP:HB3	1:A:4:SER:H	1.54	0.41
1:B:8:ALA:HB2	9:B:9765:HOH:O	2.20	0.41
1:B:41:ARG:HH11	1:B:41:ARG:HG3	1.85	0.41
1:B:55:SER:HB2	1:B:158:ILE:HB	2.02	0.41
1:B:132:LEU:HD21	1:B:138:LEU:HB2	2.02	0.41
2:C:384:GLU:HG3	2:C:388:ARG:HB2	2.02	0.41
2:C:670:GLN:HE22	2:C:699:PHE:C	2.28	0.41
2:C:739:GLU:O	2:C:740:GLU:C	2.63	0.41
2:C:840:ALA:O	2:C:995:MET:HE3	2.19	0.41
2:C:887:GLU:HG3	9:C:9563:HOH:O	2.20	0.41
2:C:1016:ILE:HD11	5:F:330:GLY:CA	2.50	0.41
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.50	0.41
2:C:1087:VAL:O	2:C:1091:GLU:HG3	2.20	0.41
3:D:47:GLU:HA	3:D:51:GLY:O	2.20	0.41
3:D:185:VAL:CG1	3:D:191:LEU:HD21	2.50	0.41
3:D:414:ARG:HB3	9:D:2090:HOH:O	2.20	0.41
3:D:596:SER:C	3:D:598:ARG:N	2.77	0.41
3:D:794:GLN:NE2	3:D:795:VAL:N	2.68	0.41
3:D:996:TRP:CE3	3:D:996:TRP:HA	2.54	0.41
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.20	0.41
3:D:1335:LEU:HD21	9:D:9849:HOH:O	2.20	0.41
9:D:2988:HOH:O	4:E:58:PRO:HG3	2.19	0.41
5:F:366:ALA:HB3	9:F:9838:HOH:O	2.19	0.41
5:F:402:ASN:HB3	5:F:406:ARG:NH1	2.35	0.41
2:M:143:SER:CB	2:M:276:LYS:HE2	2.49	0.41
2:M:464:LEU:HD13	9:M:9893:HOH:O	2.20	0.41
2:M:524:VAL:HG22	2:M:528:GLU:HB2	2.01	0.41
2:M:757:GLY:HA2	2:M:789:SER:HB3	2.02	0.41
3:N:9:ARG:NH1	3:N:9:ARG:HG2	2.35	0.41
3:N:209:ARG:NH1	3:N:397:LYS:HG3	2.35	0.41
3:N:213:VAL:HG13	9:N:2214:HOH:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:659:LYS:O	3:N:663:GLU:HG2	2.20	0.41
3:N:736:PHE:C	9:N:9228:HOH:O	2.63	0.41
3:N:793:THR:HB	3:N:879:ARG:HD2	2.02	0.41
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.35	0.41
3:N:1146:GLY:N	9:N:2585:HOH:O	2.53	0.41
3:N:1301:LYS:HD3	9:N:2604:HOH:O	2.18	0.41
3:N:1307:LYS:HB2	3:N:1307:LYS:NZ	2.35	0.41
5:P:75:ILE:HG22	9:P:6479:HOH:O	2.18	0.41
5:P:367:MET:HA	5:P:370:LYS:CD	2.49	0.41
5:P:370:LYS:HZ2	5:P:371:LEU:HG	1.85	0.41
5:P:387:GLY:HA2	9:P:8096:HOH:O	2.19	0.41
1:A:77:GLU:CD	2:C:640:ARG:HH22	2.28	0.41
2:C:73:LEU:HD23	2:C:118:ILE:HD11	2.01	0.41
2:C:249:LYS:HA	9:C:2727:HOH:O	2.19	0.41
2:C:313:LEU:C	2:C:315:ALA:N	2.78	0.41
2:C:516:ARG:HB3	9:C:9652:HOH:O	2.19	0.41
2:C:690:ILE:HG12	2:C:849:VAL:HG13	2.01	0.41
2:C:707:ARG:HD2	2:C:824:ARG:HD3	2.01	0.41
2:C:1008:ARG:NH1	3:D:624:ASP:OD1	2.53	0.41
2:C:1016:ILE:CD1	5:F:317:LEU:HD21	2.43	0.41
3:D:381:ALA:HA	9:D:2848:HOH:O	2.19	0.41
3:D:644:LEU:CG	3:D:718:PRO:HB3	2.50	0.41
3:D:1428:ALA:O	3:D:1431:THR:HG23	2.19	0.41
5:F:301:ALA:HB2	9:F:2002:HOH:O	2.19	0.41
5:F:317:LEU:O	5:F:329:TYR:HB3	2.21	0.41
2:M:137:VAL:HG13	2:M:409:ARG:O	2.20	0.41
2:M:230:ARG:CZ	2:M:237:ARG:HH22	2.32	0.41
2:M:241:LEU:HG	9:M:9694:HOH:O	2.21	0.41
2:M:366:SER:HB3	9:M:2384:HOH:O	2.20	0.41
2:M:460:ARG:HH11	2:M:460:ARG:HG3	1.85	0.41
2:M:497:ALA:HB3	2:M:532:MET:HG3	2.02	0.41
2:M:514:VAL:HG11	2:M:516:ARG:CZ	2.50	0.41
2:M:601:GLY:HA3	2:M:615:TYR:HA	2.02	0.41
2:M:928:LYS:HE2	9:M:9477:HOH:O	2.20	0.41
2:M:983:ILE:O	2:M:984:GLU:C	2.62	0.41
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.55	0.41
2:M:1115:LEU:CD2	3:N:85:VAL:HG22	2.50	0.41
3:N:116:LEU:CB	3:N:118:LEU:HD13	2.44	0.41
3:N:427:VAL:HG21	3:N:435:VAL:HB	2.03	0.41
3:N:567:ILE:O	3:N:571:LYS:HG3	2.20	0.41
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:829:VAL:HA	9:N:9736:HOH:O	2.19	0.41
3:N:907:GLU:OE2	3:N:909:ASN:HB2	2.21	0.41
3:N:1278:ASP:OD1	3:N:1321:ALA:HB2	2.20	0.41
3:N:1312:LEU:HD23	9:N:2549:HOH:O	2.20	0.41
3:N:1428:ALA:C	3:N:1430:SER:N	2.79	0.41
3:N:1467:ILE:HD13	9:N:9712:HOH:O	2.20	0.41
5:P:313:GLU:OE1	5:P:313:GLU:HA	2.20	0.41
5:P:350:LEU:CD1	5:P:422:LEU:HD13	2.50	0.41
1:B:53:VAL:HG21	1:B:82:LEU:HB3	2.03	0.41
1:B:89:PHE:HD2	1:B:146:ARG:HH21	1.69	0.41
1:B:108:GLU:HB3	1:B:128:HIS:HE1	1.86	0.41
1:B:110:LYS:HG3	9:B:9637:HOH:O	2.20	0.41
2:C:19:THR:HG22	2:C:19:THR:O	2.20	0.41
2:C:47:ALA:O	2:C:50:GLU:HB3	2.20	0.41
2:C:121:MET:HA	2:C:127:PHE:CE2	2.56	0.41
2:C:193:LEU:HA	2:C:196:LEU:HD12	2.02	0.41
2:C:216:GLU:CD	2:C:216:GLU:N	2.78	0.41
2:C:274:ARG:O	2:C:278:GLU:HG3	2.20	0.41
2:C:300:ASP:CG	2:C:300:ASP:O	2.63	0.41
2:C:455:LEU:HD22	2:C:459:ALA:HB1	2.02	0.41
2:C:945:ARG:C	2:C:947:ALA:N	2.77	0.41
2:C:988:VAL:HG13	9:C:9757:HOH:O	2.21	0.41
2:C:1091:GLU:O	2:C:1094:ALA:HB3	2.20	0.41
3:D:1110:ALA:O	3:D:1112:CYS:N	2.52	0.41
3:D:1209:LEU:HD23	3:D:1216:SER:H	1.85	0.41
4:E:48:MET:N	4:E:54:LEU:HB2	2.34	0.41
1:K:2:LEU:HA	1:K:6:LEU:CD2	2.50	0.41
9:K:5576:HOH:O	1:L:11:PHE:HB3	2.20	0.41
1:L:220:GLU:HA	1:L:223:THR:HG23	2.02	0.41
2:M:118:ILE:HA	2:M:119:PRO:HD3	1.88	0.41
2:M:130:ASN:N	9:M:9614:HOH:O	2.52	0.41
2:M:145:GLY:H	2:M:163:ILE:HG23	1.85	0.41
2:M:205:GLU:HG3	2:M:206:THR:N	2.36	0.41
2:M:205:GLU:HG3	9:M:9651:HOH:O	2.20	0.41
2:M:207:LEU:HD13	2:M:221:LEU:HD11	2.01	0.41
2:M:697:ARG:O	2:M:699:PHE:N	2.48	0.41
2:M:859:PRO:HB2	2:M:867:VAL:CG2	2.51	0.41
2:M:1047:HIS:O	2:M:1051:GLU:HG3	2.20	0.41
3:N:637:LEU:HD11	3:N:642:CYS:HA	2.02	0.41
3:N:1111:ASP:HB2	3:N:1203:LYS:HD2	2.03	0.41
5:P:94:LEU:HD12	5:P:97:GLU:H	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:48:ILE:HD13	1:A:210:ALA:HB1	2.03	0.41
1:B:151:VAL:HG12	1:B:156:HIS:ND1	2.36	0.41
2:C:474:VAL:HG13	2:C:530:GLU:C	2.45	0.41
2:C:666:LEU:HD11	2:C:668:LEU:HG	2.01	0.41
2:C:684:PHE:CG	2:C:685:GLU:N	2.86	0.41
2:C:807:ARG:HD2	9:C:2016:HOH:O	2.20	0.41
2:C:1012:PRO:HB3	5:F:334:PRO:HB3	2.03	0.41
2:C:1095:LEU:HD12	3:D:603:LEU:HD13	2.03	0.41
3:D:99:ALA:CA	3:D:575:GLN:HE22	2.29	0.41
3:D:1164:ARG:HG2	9:D:2063:HOH:O	2.20	0.41
3:D:1381:VAL:HG23	3:D:1391:GLU:HB2	2.01	0.41
3:D:1394:VAL:CB	3:D:1397:LYS:HD2	2.51	0.41
5:F:80:PRO:O	5:F:83:GLN:HB3	2.20	0.41
1:K:71:VAL:HG13	9:K:1208:HOH:O	2.19	0.41
1:K:104:GLU:HA	1:K:136:GLY:O	2.21	0.41
1:K:184:THR:HG23	1:K:192:LEU:HB2	2.02	0.41
2:M:76:PRO:HB2	9:M:9838:HOH:O	2.19	0.41
2:M:176:VAL:HG12	2:M:178:PRO:HD3	2.03	0.41
2:M:246:ASP:HA	2:M:247:PRO:HD3	1.97	0.41
2:M:739:GLU:O	2:M:740:GLU:C	2.63	0.41
2:M:764:GLU:HG2	9:M:9355:HOH:O	2.21	0.41
2:M:926:PHE:O	2:M:930:LYS:HG3	2.21	0.41
2:M:1092:LEU:CD1	2:M:1099:VAL:HG21	2.45	0.41
3:N:82:LYS:O	3:N:84:ILE:N	2.54	0.41
3:N:520:LEU:O	3:N:525:ARG:NH1	2.54	0.41
3:N:521:PRO:HB3	9:N:9625:HOH:O	2.20	0.41
3:N:704:ARG:CD	9:N:9228:HOH:O	2.69	0.41
3:N:1110:ALA:O	3:N:1112:CYS:N	2.53	0.41
3:N:1353:GLN:NE2	3:N:1365:ASP:OD2	2.53	0.41
9:N:2944:HOH:O	5:P:92:PRO:HG2	2.20	0.41
4:O:48:MET:HG2	4:O:49:GLN:N	2.33	0.41
4:O:59:ASN:HB2	9:O:4249:HOH:O	2.19	0.41
5:P:136:LEU:HD12	5:P:137:GLY:N	2.36	0.41
5:P:309:LYS:HA	5:P:312:GLN:OE1	2.20	0.41
1:A:69:PRO:O	1:A:71:VAL:HG23	2.21	0.41
1:A:79:ILE:HA	1:A:82:LEU:HD12	2.02	0.41
1:B:178:ALA:HB1	1:B:198:ARG:NH2	2.35	0.41
2:C:118:ILE:O	2:C:118:ILE:HG12	2.19	0.41
2:C:172:ILE:HA	2:C:185:LYS:O	2.20	0.41
2:C:279:GLU:OE2	2:C:489:THR:HG21	2.20	0.41
2:C:332:ARG:CZ	9:C:9819:HOH:O	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:701:THR:HG22	2:C:832:LYS:HG2	2.02	0.41
2:C:736:ASP:C	2:C:738:ASP:H	2.29	0.41
2:C:756:VAL:HG11	2:C:823:VAL:HG21	2.02	0.41
2:C:897:LEU:HD11	2:C:920:GLN:CG	2.49	0.41
2:C:942:GLU:HA	9:C:9752:HOH:O	2.19	0.41
2:C:1036:GLU:CD	2:C:1036:GLU:H	2.28	0.41
3:D:205:TYR:OH	3:D:391:ALA:HB1	2.19	0.41
3:D:567:ILE:O	3:D:571:LYS:HG3	2.20	0.41
3:D:899:LEU:HD13	3:D:900:ILE:HG23	2.02	0.41
3:D:1223:ILE:HD12	3:D:1223:ILE:N	2.35	0.41
3:D:1487:VAL:HG12	3:D:1488:ASP:N	2.35	0.41
3:D:1497:GLU:OE1	3:D:1500:LYS:HD2	2.20	0.41
4:E:35:PHE:N	9:E:9641:HOH:O	2.52	0.41
5:F:125:ASP:N	9:F:9847:HOH:O	2.54	0.41
5:F:130:VAL:HG21	5:F:159:ILE:HD13	2.01	0.41
5:F:288:TYR:HE2	5:F:305:GLU:HA	1.86	0.41
5:F:406:ARG:O	5:F:409:LYS:HG2	2.20	0.41
5:F:419:ARG:O	5:F:421:PHE:N	2.53	0.41
1:K:180:GLN:NE2	9:K:1619:HOH:O	2.52	0.41
1:L:102:LYS:HB2	1:L:139:ASN:OD1	2.21	0.41
2:M:199:VAL:HG21	2:M:238:LEU:HD12	2.02	0.41
2:M:696:LYS:HA	9:M:9428:HOH:O	2.19	0.41
2:M:842:ARG:HD2	9:M:9367:HOH:O	2.21	0.41
2:M:858:MET:HB2	2:M:859:PRO:HD2	2.01	0.41
2:M:896:PHE:CD2	2:M:925:TYR:HB2	2.55	0.41
9:M:9803:HOH:O	3:N:1470:ARG:HA	2.21	0.41
3:N:191:LEU:HD22	3:N:195:VAL:HG21	2.02	0.41
3:N:550:ARG:NH1	3:N:573:MET:HB3	2.35	0.41
3:N:860:LEU:O	3:N:877:PRO:HD2	2.20	0.41
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.55	0.41
3:N:1483:PHE:CD1	3:N:1483:PHE:N	2.89	0.41
1:B:106:PRO:HA	1:B:132:LEU:O	2.20	0.41
1:B:108:GLU:O	1:B:110:LYS:HG3	2.20	0.41
2:C:200:LEU:HD13	2:C:300:ASP:OD1	2.20	0.41
2:C:205:GLU:HA	9:C:9874:HOH:O	2.20	0.41
2:C:449:ILE:C	2:C:451:LEU:H	2.29	0.41
2:C:546:LEU:O	2:C:546:LEU:HG	2.21	0.41
2:C:648:ARG:HB3	9:C:9827:HOH:O	2.21	0.41
2:C:1016:ILE:HD11	5:F:330:GLY:HA2	2.03	0.41
3:D:3:LYS:HD3	3:D:3:LYS:N	2.34	0.41
3:D:27:GLU:O	3:D:28:LYS:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:35:ARG:HA	9:D:2169:HOH:O	2.21	0.41
3:D:191:LEU:HD22	3:D:195:VAL:HG21	2.03	0.41
3:D:421:LEU:N	3:D:421:LEU:HD23	2.36	0.41
3:D:684:LYS:HA	9:D:2441:HOH:O	2.19	0.41
3:D:861:GLN:N	3:D:861:GLN:CD	2.79	0.41
3:D:890:VAL:HG22	3:D:926:LYS:HG2	2.02	0.41
3:D:991:GLN:O	3:D:994:GLN:HB3	2.20	0.41
3:D:1263:PHE:HD2	3:D:1424:VAL:HG21	1.85	0.41
3:D:1359:GLN:NE2	9:D:2889:HOH:O	2.52	0.41
5:F:131:VAL:HG22	5:F:178:ARG:HD3	2.03	0.41
1:K:48:ILE:CG2	1:K:173:PRO:HD2	2.49	0.41
1:L:117:VAL:HG12	9:L:3068:HOH:O	2.21	0.41
1:L:136:GLY:HA3	9:L:2881:HOH:O	2.19	0.41
1:L:198:ARG:HD3	9:L:1055:HOH:O	2.21	0.41
2:M:9:ILE:O	2:M:9:ILE:HG13	2.20	0.41
2:M:297:GLU:HB3	9:M:2030:HOH:O	2.19	0.41
2:M:420:ARG:H	2:M:420:ARG:CD	2.30	0.41
2:M:557:ARG:HD2	2:M:557:ARG:HA	1.95	0.41
2:M:950:LEU:HB3	2:M:952:LEU:CD2	2.50	0.41
2:M:1063:ARG:HG3	5:P:341:PRO:HG3	2.02	0.41
3:N:81:THR:HB	3:N:85:VAL:HG23	2.02	0.41
3:N:170:PRO:O	3:N:391:ALA:HB3	2.21	0.41
3:N:183:GLU:OE2	3:N:216:VAL:HG13	2.19	0.41
3:N:795:VAL:HA	3:N:861:GLN:O	2.20	0.41
9:N:9507:HOH:O	5:P:134:LYS:HA	2.20	0.41
1:A:35:THR:HG22	9:B:9638:HOH:O	2.20	0.41
1:A:189:ARG:HG2	9:A:9613:HOH:O	2.21	0.41
1:A:209:GLU:C	1:A:213:GLN:HE21	2.27	0.41
2:C:290:LEU:H	2:C:290:LEU:CD1	2.25	0.41
2:C:384:GLU:CA	2:C:388:ARG:HH21	2.34	0.41
2:C:438:ILE:HG23	2:C:453:THR:OG1	2.20	0.41
2:C:1052:MET:CE	2:C:1056:LYS:HD3	2.47	0.41
2:C:1113:GLU:CD	2:C:1113:GLU:H	2.28	0.41
3:D:16:GLU:O	3:D:19:ARG:HB2	2.20	0.41
3:D:119:SER:O	3:D:121:THR:N	2.54	0.41
3:D:425:GLY:C	9:D:2135:HOH:O	2.64	0.41
3:D:884:ARG:O	3:D:888:GLU:N	2.53	0.41
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	2.03	0.41
3:D:1258:ARG:HH11	3:D:1258:ARG:HG3	1.85	0.41
2:M:176:VAL:C	2:M:178:PRO:HD3	2.45	0.41
2:M:206:THR:HB	9:M:9651:HOH:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:462:ASP:OD1	2:M:463:GLU:N	2.54	0.41
2:M:502:PRO:HD3	9:M:2363:HOH:O	2.20	0.41
2:M:690:ILE:HG21	2:M:833:LEU:HD23	2.02	0.41
2:M:878:SER:HB3	8:N:9101:G4P:O2D	2.21	0.41
2:M:915:LYS:HD2	9:M:9311:HOH:O	2.20	0.41
2:M:958:THR:HG23	2:M:961:GLU:CG	2.51	0.41
2:M:976:ASP:C	2:M:978:ARG:N	2.79	0.41
3:N:13:ALA:O	3:N:511:TRP:HB3	2.21	0.41
3:N:141:ILE:HD11	3:N:431:VAL:O	2.20	0.41
3:N:190:GLU:HG3	3:N:210:ARG:CZ	2.50	0.41
3:N:596:SER:C	3:N:598:ARG:N	2.78	0.41
3:N:644:LEU:HA	3:N:645:PRO:HD3	1.98	0.41
3:N:796:ARG:HD2	9:N:9384:HOH:O	2.20	0.41
3:N:799:LYS:HD2	9:N:2444:HOH:O	2.21	0.41
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.36	0.41
9:N:9844:HOH:O	5:P:92:PRO:HD3	2.21	0.41
5:P:155:THR:HG22	5:P:159:ILE:HD11	2.03	0.41
1:A:42:ARG:NE	1:B:35:THR:OG1	2.48	0.41
1:A:156:HIS:CD2	1:A:157:GLY:H	2.39	0.41
1:A:178:ALA:HB2	2:C:864:GLY:N	2.34	0.41
1:B:100:LEU:HB2	1:B:115:LEU:HD21	2.03	0.41
1:B:106:PRO:HD2	9:B:9677:HOH:O	2.20	0.41
1:B:189:ARG:HG3	9:B:9584:HOH:O	2.21	0.41
2:C:27:ARG:HG3	2:C:27:ARG:NH1	2.36	0.41
2:C:181:VAL:HG12	2:C:182:VAL:N	2.36	0.41
2:C:397:GLU:C	2:C:399:ASN:N	2.77	0.41
2:C:405:ARG:HH11	2:C:405:ARG:HG2	1.85	0.41
2:C:493:ARG:HB2	2:C:494:TYR:CE1	2.55	0.41
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.46	0.41
2:C:784:ASP:HB2	9:C:2121:HOH:O	2.19	0.41
2:C:889:HIS:CE1	3:D:951:ILE:H	2.28	0.41
2:C:964:LYS:O	2:C:968:LEU:HG	2.20	0.41
2:C:1098:ASP:OD1	2:C:1098:ASP:C	2.64	0.41
3:D:100:ALA:N	9:D:2106:HOH:O	2.53	0.41
3:D:119:SER:HB2	3:D:123:LEU:CB	2.42	0.41
3:D:162:ARG:NH1	9:D:9697:HOH:O	2.50	0.41
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.51	0.41
3:D:486:ARG:HA	3:D:489:ARG:HD3	2.03	0.41
3:D:520:LEU:O	3:D:525:ARG:NH1	2.54	0.41
3:D:761:ILE:HD11	9:E:9593:HOH:O	2.20	0.41
3:D:780:LYS:NZ	3:D:912:LYS:HE3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:785:ILE:N	9:D:2202:HOH:O	2.53	0.41
3:D:789:LEU:HD11	3:D:934:LEU:HD22	2.02	0.41
3:D:996:TRP:CD2	3:D:1056:PRO:HG3	2.56	0.41
3:D:1105:ILE:HD13	9:D:9754:HOH:O	2.20	0.41
3:D:1123:PHE:CD1	3:D:1134:LEU:HA	2.56	0.41
3:D:1500:LYS:HA	9:D:9806:HOH:O	2.20	0.41
4:E:25:LYS:HA	4:E:28:GLN:OE1	2.21	0.41
5:F:84:TYR:CD2	5:F:192:LEU:HD13	2.56	0.41
5:F:170:HIS:HA	5:F:173:TYR:HD1	1.85	0.41
5:F:276:ARG:HD2	9:F:9563:HOH:O	2.21	0.41
5:F:320:PRO:HA	9:F:9771:HOH:O	2.20	0.41
5:F:361:LEU:HB3	9:F:9838:HOH:O	2.21	0.41
1:K:128:HIS:O	1:K:129:ILE:HD13	2.20	0.41
1:K:165:ILE:HA	1:K:166:PRO:HD3	1.95	0.41
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.86	0.41
1:L:50:GLY:O	1:L:146:ARG:HA	2.20	0.41
2:M:61:LYS:HB2	9:M:9741:HOH:O	2.20	0.41
2:M:166:PRO:HB2	9:M:9681:HOH:O	2.21	0.41
2:M:200:LEU:HD22	2:M:300:ASP:OD1	2.20	0.41
2:M:204:GLN:HB2	9:M:9986:HOH:O	2.20	0.41
2:M:397:GLU:N	2:M:633:GLN:OE1	2.54	0.41
2:M:504:GLU:HB2	9:M:9322:HOH:O	2.20	0.41
2:M:710:ILE:HB	2:M:790:LEU:HB2	2.02	0.41
2:M:734:LEU:O	2:M:735:ARG:C	2.64	0.41
2:M:850:ALA:CB	3:N:632:VAL:HG13	2.51	0.41
2:M:916:GLU:O	2:M:919:ALA:HB3	2.21	0.41
3:N:65:ARG:HB2	5:P:375:LEU:C	2.45	0.41
3:N:162:ARG:HG2	9:N:9455:HOH:O	2.20	0.41
3:N:416:ALA:HB3	3:N:417:PRO:HD3	2.02	0.41
3:N:737:ASN:N	9:N:9545:HOH:O	2.51	0.41
3:N:823:LEU:HD11	9:N:2306:HOH:O	2.20	0.41
3:N:851:LEU:N	3:N:851:LEU:HD23	2.35	0.41
3:N:868:TYR:CZ	3:N:869:MET:HE2	2.56	0.41
3:N:1033:GLN:HB2	9:N:2467:HOH:O	2.21	0.41
3:N:1124:GLN:NE2	9:N:2426:HOH:O	2.53	0.41
3:N:1379:VAL:O	3:N:1392:GLY:HA2	2.21	0.41
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.35	0.41
4:O:87:LYS:HA	9:O:4487:HOH:O	2.20	0.41
5:P:115:LYS:HD2	5:P:118:GLU:OE2	2.21	0.41
5:P:157:GLU:O	5:P:161:GLN:HG3	2.21	0.41
5:P:276:ARG:HG3	5:P:276:ARG:HH11	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:THR:CG2	9:B:9638:HOH:O	2.68	0.41
1:A:65:PHE:CE2	2:C:830:LYS:HG3	2.56	0.41
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.96	0.41
2:C:778:PHE:HE1	5:F:418:LEU:O	2.04	0.41
2:C:820:ARG:HG2	2:C:820:ARG:HH11	1.85	0.41
3:D:54:LYS:CD	3:D:55:ASP:H	2.27	0.41
3:D:172:PRO:HB3	3:D:178:LEU:HB2	2.03	0.41
3:D:235:ALA:HA	9:D:2001:HOH:O	2.20	0.41
3:D:652:LEU:HB3	3:D:653:PHE:HD1	1.86	0.41
3:D:785:ILE:HD12	9:D:2202:HOH:O	2.19	0.41
3:D:890:VAL:HG21	3:D:922:LEU:CD1	2.51	0.41
3:D:995:LEU:HD23	9:D:2129:HOH:O	2.21	0.41
3:D:1198:TYR:HH	3:D:1394:VAL:HG21	1.86	0.41
3:D:1384:PRO:HG3	3:D:1389:LEU:CA	2.51	0.41
5:F:110:MET:HG2	5:F:114:LYS:HE3	2.03	0.41
5:F:288:TYR:HA	5:F:291:ILE:HG22	2.03	0.41
1:K:18:ARG:CZ	1:K:88:ARG:HH21	2.34	0.41
1:L:10:VAL:O	1:L:12:THR:HG23	2.20	0.41
2:M:208:ALA:O	2:M:218:VAL:HG21	2.21	0.41
2:M:385:PHE:O	2:M:389:SER:HB3	2.21	0.41
2:M:721:ARG:HB2	2:M:759:THR:OG1	2.21	0.41
2:M:759:THR:HB	2:M:785:VAL:CG1	2.49	0.41
2:M:843:HIS:CD2	2:M:884:GLN:HA	2.56	0.41
3:N:36:THR:C	3:N:38:LYS:N	2.72	0.41
3:N:457:GLY:HA3	3:N:568:ARG:HH12	1.86	0.41
3:N:589:ALA:N	9:N:2734:HOH:O	2.54	0.41
3:N:795:VAL:HG13	3:N:863:VAL:HG13	2.02	0.41
3:N:853:VAL:HG11	3:N:860:LEU:CD2	2.51	0.41
3:N:1036:ARG:HD3	9:N:2161:HOH:O	2.21	0.41
3:N:1311:LEU:HD22	9:N:9440:HOH:O	2.19	0.41
4:O:54:LEU:HA	4:O:58:PRO:HG2	2.03	0.41
5:P:88:ILE:O	5:P:92:PRO:HG3	2.21	0.41
5:P:153:PRO:HG2	5:P:154:LYS:H	1.86	0.41
5:P:292:ALA:HA	5:P:299:TRP:HB3	2.03	0.41
5:P:342:VAL:O	5:P:345:ALA:HB3	2.21	0.41
1:A:132:LEU:HD23	1:A:136:GLY:O	2.22	0.40
1:B:90:LEU:HD22	9:B:9609:HOH:O	2.21	0.40
2:C:162:ILE:O	2:C:164:PRO:HD3	2.21	0.40
2:C:193:LEU:HD12	2:C:307:LEU:HD22	2.03	0.40
2:C:266:ARG:HD3	2:C:288:ARG:NE	2.32	0.40
2:C:471:TYR:HE1	2:C:491:GLU:HG3	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:482:GLU:HG2	2:C:483:VAL:N	2.36	0.40
2:C:532:MET:HG3	2:C:533:ASP:N	2.36	0.40
2:C:628:PHE:HA	9:C:2384:HOH:O	2.21	0.40
2:C:927:GLY:HA3	9:C:2426:HOH:O	2.20	0.40
9:C:9574:HOH:O	3:D:582:LEU:HD21	2.21	0.40
3:D:470:LEU:HD22	3:D:499:VAL:HG13	2.02	0.40
3:D:764:LEU:HG	3:D:765:SER:N	2.36	0.40
3:D:998:GLU:HG2	9:D:3028:HOH:O	2.21	0.40
3:D:1093:TYR:O	3:D:1097:LYS:HG2	2.21	0.40
3:D:1097:LYS:HE2	9:D:9630:HOH:O	2.21	0.40
3:D:1112:CYS:HB2	9:D:9694:HOH:O	2.21	0.40
3:D:1343:ALA:N	9:D:9670:HOH:O	2.54	0.40
3:D:1478:SER:C	3:D:1480:PHE:N	2.75	0.40
5:F:333:ILE:HA	5:F:334:PRO:HD3	1.81	0.40
1:K:5:LYS:NZ	9:K:1872:HOH:O	2.54	0.40
1:K:5:LYS:O	1:K:8:ALA:HB2	2.21	0.40
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.55	0.40
2:M:44:ILE:N	2:M:44:ILE:HD12	2.36	0.40
2:M:157:ARG:HB3	9:M:2325:HOH:O	2.21	0.40
2:M:197:LEU:CD1	2:M:207:LEU:HD11	2.52	0.40
2:M:321:GLU:HB3	9:M:9404:HOH:O	2.20	0.40
2:M:360:LEU:HD11	9:M:2160:HOH:O	2.19	0.40
2:M:577:PRO:HG3	2:M:993:PHE:CD1	2.56	0.40
2:M:1000:MET:HE1	9:M:9493:HOH:O	2.21	0.40
2:M:1086:ARG:NH1	2:M:1086:ARG:HG3	2.36	0.40
3:N:117:ASP:C	3:N:118:LEU:HD12	2.46	0.40
3:N:121:THR:C	9:N:2580:HOH:O	2.65	0.40
3:N:128:TYR:O	3:N:568:ARG:NH2	2.54	0.40
3:N:221:ALA:HB3	3:N:367:ILE:CB	2.52	0.40
3:N:824:ASN:ND2	9:N:9277:HOH:O	2.53	0.40
3:N:1308:GLU:HG2	9:N:2487:HOH:O	2.21	0.40
5:P:94:LEU:HD12	5:P:97:GLU:CB	2.50	0.40
1:A:18:ARG:NH2	1:A:88:ARG:NH2	2.69	0.40
1:B:10:VAL:HG12	1:B:12:THR:HG23	2.02	0.40
1:B:12:THR:HG1	1:B:24:VAL:HB	1.84	0.40
2:C:140:ILE:HD11	2:C:412:ALA:HB2	2.03	0.40
2:C:300:ASP:HB2	2:C:303:PHE:CD1	2.56	0.40
2:C:358:ARG:NH2	2:C:373:VAL:N	2.66	0.40
2:C:686:ASP:N	9:C:2345:HOH:O	2.53	0.40
2:C:743:VAL:HG11	2:C:755:LEU:HD13	2.03	0.40
2:C:855:VAL:CG2	2:C:866:PRO:HG2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:917:LEU:HG	9:C:9726:HOH:O	2.21	0.40
3:D:70:GLY:HA3	9:D:2046:HOH:O	2.20	0.40
3:D:211:VAL:HG12	3:D:212:ARG:N	2.36	0.40
3:D:493:ARG:HE	3:D:1389:LEU:HD21	1.86	0.40
3:D:795:VAL:HA	3:D:861:GLN:O	2.22	0.40
3:D:1198:TYR:OH	3:D:1394:VAL:HG21	2.21	0.40
3:D:1278:ASP:N	3:D:1278:ASP:OD1	2.54	0.40
5:F:78:SER:O	5:F:82:ARG:HG3	2.21	0.40
5:F:256:ARG:HB3	9:F:9562:HOH:O	2.22	0.40
5:F:396:ARG:HB2	9:F:9739:HOH:O	2.21	0.40
1:K:18:ARG:CZ	9:K:2975:HOH:O	2.70	0.40
1:L:13:VAL:HG12	1:L:14:ARG:N	2.36	0.40
2:M:44:ILE:HG23	9:M:9747:HOH:O	2.20	0.40
2:M:56:GLU:CD	2:M:356:ARG:HG3	2.47	0.40
2:M:609:ASN:HB3	9:M:9455:HOH:O	2.20	0.40
2:M:637:LEU:CD2	2:M:659:PRO:HG2	2.51	0.40
2:M:736:ASP:C	2:M:738:ASP:H	2.27	0.40
2:M:786:LYS:NZ	9:M:2081:HOH:O	2.54	0.40
2:M:1107:ASN:HB3	9:M:9373:HOH:O	2.20	0.40
3:N:55:ASP:O	3:N:82:LYS:HA	2.22	0.40
3:N:671:LYS:HE3	5:P:421:PHE:O	2.22	0.40
3:N:736:PHE:HA	9:N:9545:HOH:O	2.21	0.40
3:N:935:LYS:HG2	3:N:939:PHE:CE1	2.57	0.40
3:N:1424:VAL:HG13	3:N:1425:THR:N	2.36	0.40
4:O:51:LEU:C	4:O:53:GLY:N	2.78	0.40
5:P:110:MET:HE2	9:P:2076:HOH:O	2.20	0.40
5:P:208:SER:HB2	5:P:211:ASP:OD1	2.20	0.40
1:A:5:LYS:O	1:A:8:ALA:HB2	2.21	0.40
1:A:68:ILE:O	1:A:71:VAL:HB	2.21	0.40
1:A:146:ARG:HG3	9:A:9628:HOH:O	2.21	0.40
1:B:81:ASN:ND2	9:B:9670:HOH:O	2.54	0.40
2:C:117:HIS:HB2	9:C:2237:HOH:O	2.21	0.40
2:C:280:LYS:HB3	9:C:2065:HOH:O	2.21	0.40
2:C:442:GLU:HG3	9:C:9844:HOH:O	2.21	0.40
2:C:473:ARG:HG2	2:C:473:ARG:HH11	1.86	0.40
2:C:723:THR:C	2:C:725:ASP:N	2.79	0.40
2:C:1014:SER:HB2	5:F:331:ASP:OD1	2.21	0.40
3:D:806:PHE:HE1	3:D:813:LEU:HB3	1.84	0.40
3:D:1159:ARG:HG3	3:D:1159:ARG:NH1	2.35	0.40
3:D:1282:ARG:HA	3:D:1315:ASP:OD1	2.22	0.40
4:E:35:PHE:HE2	4:E:63:TRP:CD2	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:234:LYS:CD	5:F:236:SER:HB2	2.49	0.40
1:K:100:LEU:HD11	9:K:7148:HOH:O	2.22	0.40
1:L:104:GLU:HA	1:L:136:GLY:O	2.21	0.40
2:M:44:ILE:HD12	2:M:44:ILE:H	1.86	0.40
2:M:49:ARG:HG2	9:M:2240:HOH:O	2.21	0.40
2:M:575:GLN:HE21	2:M:671:ASN:HD22	1.69	0.40
2:M:719:PRO:HG3	9:M:9740:HOH:O	2.22	0.40
2:M:724:ARG:HD2	2:M:738:ASP:O	2.21	0.40
3:N:64:LYS:HD3	5:P:376:ILE:O	2.21	0.40
3:N:85:VAL:HG12	3:N:89:ARG:NE	2.36	0.40
3:N:96:ALA:CB	3:N:554:LEU:HG	2.51	0.40
3:N:115:LEU:HD12	9:N:9458:HOH:O	2.21	0.40
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.51	0.40
3:N:416:ALA:HA	3:N:442:ASN:ND2	2.36	0.40
3:N:456:MET:CG	3:N:568:ARG:HD3	2.51	0.40
3:N:911:LEU:O	3:N:912:LYS:C	2.65	0.40
3:N:930:LEU:HD12	3:N:930:LEU:O	2.21	0.40
3:N:983:LEU:HG	9:N:2329:HOH:O	2.21	0.40
3:N:1345:GLU:HG2	3:N:1376:MET:SD	2.62	0.40
4:O:40:LEU:HG	4:O:67:GLU:HG2	2.04	0.40
5:P:364:ARG:O	5:P:368:VAL:HG23	2.22	0.40
5:P:392:VAL:CG1	5:P:396:ARG:HB2	2.51	0.40
1:A:76:VAL:HA	1:A:79:ILE:HG12	2.03	0.40
1:B:170:VAL:N	9:B:9602:HOH:O	2.54	0.40
2:C:122:THR:HG22	2:C:123:GLU:N	2.37	0.40
2:C:427:VAL:HG22	9:C:2153:HOH:O	2.20	0.40
2:C:432:ARG:H	2:C:432:ARG:HG2	1.50	0.40
2:C:551:GLU:HB2	9:C:9690:HOH:O	2.21	0.40
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.57	0.40
3:D:80:VAL:HA	9:D:9665:HOH:O	2.21	0.40
3:D:586:ARG:NE	9:D:2208:HOH:O	2.48	0.40
3:D:683:ILE:HB	9:D:9721:HOH:O	2.22	0.40
3:D:789:LEU:CD1	3:D:934:LEU:HD22	2.51	0.40
3:D:836:VAL:HA	3:D:839:LEU:HD12	2.03	0.40
3:D:995:LEU:HB3	9:D:2129:HOH:O	2.20	0.40
5:F:93:LEU:HD11	5:F:187:LEU:HA	2.03	0.40
5:F:215:GLU:HA	5:F:215:GLU:OE1	2.21	0.40
1:K:57:TYR:CG	1:K:161:ARG:HD3	2.56	0.40
1:K:196:THR:HG23	1:K:196:THR:O	2.20	0.40
1:L:198:ARG:HG2	9:L:1453:HOH:O	2.21	0.40
1:L:206:THR:HG22	1:L:209:GLU:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:413:LEU:HD22	9:M:2205:HOH:O	2.22	0.40
2:M:473:ARG:HH21	2:M:484:VAL:HG21	1.86	0.40
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	2.02	0.40
9:M:2038:HOH:O	3:N:680:GLN:HB2	2.22	0.40
3:N:116:LEU:HB3	3:N:118:LEU:CD1	2.41	0.40
3:N:126:VAL:HG13	3:N:132:TYR:CB	2.49	0.40
3:N:137:PRO:HD2	3:N:453:ASP:CG	2.46	0.40
3:N:239:GLY:HA2	9:N:9367:HOH:O	2.21	0.40
3:N:601:ARG:NH2	3:N:613:ARG:NH2	2.69	0.40
3:N:704:ARG:CG	3:N:705:ALA:N	2.84	0.40
3:N:1087:ARG:HE	3:N:1238:MET:CB	2.34	0.40
4:O:10:PHE:O	4:O:13:VAL:HG22	2.22	0.40
5:P:253:ASP:HB3	5:P:259:ARG:NH2	2.36	0.40
5:P:294:ALA:HA	9:P:4602:HOH:O	2.21	0.40
2:C:165:LEU:HD12	2:C:166:PRO:CA	2.51	0.40
2:C:216:GLU:O	2:C:219:GLN:HG3	2.21	0.40
2:C:420:ARG:HA	9:C:2134:HOH:O	2.20	0.40
2:C:435:TYR:HD1	3:D:1071:PHE:CE2	2.40	0.40
2:C:724:ARG:O	2:C:734:LEU:HD11	2.21	0.40
2:C:739:GLU:N	9:C:9982:HOH:O	2.55	0.40
2:C:829:GLN:HB2	9:C:9705:HOH:O	2.20	0.40
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.56	0.40
3:D:175:VAL:HG21	9:D:3255:HOH:O	2.21	0.40
3:D:554:LEU:O	3:D:557:LEU:HB2	2.20	0.40
3:D:702:LEU:HD12	3:D:702:LEU:N	2.36	0.40
3:D:729:HIS:CE1	3:D:730:PRO:HG2	2.57	0.40
3:D:1192:LEU:N	9:D:9658:HOH:O	2.54	0.40
3:D:1440:PHE:O	3:D:1443:THR:HG23	2.21	0.40
3:D:1489:GLN:HA	3:D:1489:GLN:NE2	2.35	0.40
5:F:281:GLU:HB2	9:F:9741:HOH:O	2.21	0.40
5:F:316:SER:HB3	5:F:319:THR:OG1	2.22	0.40
1:K:9:PRO:HD2	1:L:224:TYR:CG	2.56	0.40
1:K:85:LEU:HD12	1:K:124:ASN:CB	2.51	0.40
1:K:185:ARG:O	1:K:185:ARG:HD2	2.22	0.40
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.52	0.40
2:M:575:GLN:HA	2:M:662:GLU:CD	2.46	0.40
2:M:631:SER:OG	2:M:635:THR:N	2.55	0.40
2:M:722:ILE:HD12	2:M:823:VAL:HG21	2.03	0.40
2:M:837:ASP:O	2:M:849:VAL:HG23	2.21	0.40
2:M:881:ASN:HD22	2:M:881:ASN:N	2.11	0.40
2:M:906:PHE:CD1	3:N:1067:VAL:HG22	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:958:THR:O	2:M:962:GLN:HG3	2.22	0.40
2:M:1005:MET:HG3	3:N:629:SER:CB	2.44	0.40
3:N:49:ILE:HD13	9:N:9259:HOH:O	2.22	0.40
3:N:190:GLU:HG3	3:N:210:ARG:NH1	2.35	0.40
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.56	0.40
3:N:1121:PRO:HG3	9:N:9490:HOH:O	2.21	0.40
3:N:1378:TYR:CE2	3:N:1394:VAL:HG22	2.56	0.40
3:N:1417:TRP:HA	9:N:9243:HOH:O	2.21	0.40
3:N:1478:SER:O	3:N:1480:PHE:N	2.54	0.40
5:P:120:THR:C	5:P:122:LEU:N	2.79	0.40
5:P:329:TYR:CE2	5:P:333:ILE:HD11	2.57	0.40
5:P:350:LEU:HG	5:P:354:LEU:CD1	2.50	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

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%)	187 (82%)	33 (14%)	7 (3%)	3	8
1	B	227/315 (72%)	183 (81%)	38 (17%)	6 (3%)	4	11
1	K	227/315 (72%)	186 (82%)	32 (14%)	9 (4%)	2	5
1	L	227/315 (72%)	185 (82%)	37 (16%)	5 (2%)	5	14
2	C	1117/1119 (100%)	856 (77%)	194 (17%)	67 (6%)	1	2
2	M	1117/1119 (100%)	863 (77%)	187 (17%)	67 (6%)	1	2
3	D	1388/1524 (91%)	1047 (75%)	248 (18%)	93 (7%)	1	1
3	N	1388/1524 (91%)	1042 (75%)	251 (18%)	95 (7%)	1	1
4	E	93/99 (94%)	72 (77%)	11 (12%)	10 (11%)	0	0
4	O	93/99 (94%)	70 (75%)	13 (14%)	10 (11%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	F	341/423 (81%)	264 (77%)	53 (16%)	24 (7%)	1	1
5	P	341/423 (81%)	267 (78%)	53 (16%)	21 (6%)	1	2
All	All	6786/7590 (89%)	5222 (77%)	1150 (17%)	414 (6%)	1	2

All (414) Ramachandran outliers are listed below:

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

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Mol	Chain	Res	Type
3	D	136	ASP
3	D	140	ALA
3	D	177	ALA
3	D	208	PRO
3	D	209	ARG
3	D	233	LYS
3	D	234	GLU
3	D	238	PRO
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	385	VAL
3	D	417	PRO
3	D	487	ALA
3	D	807	ALA
3	D	832	ARG
3	D	1028	ALA
3	D	1125	PRO
3	D	1197	ARG
3	D	1208	ASP
3	D	1243	THR
3	D	1388	ARG
3	D	1389	LEU
3	D	1390	LEU
4	E	42	PRO
4	E	58	PRO
5	F	75	ILE
5	F	76	SER
5	F	77	THR
5	F	145	PRO
5	F	148	LYS
5	F	153	PRO
5	F	297	PRO
5	F	324	GLU
5	F	341	PRO
5	F	364	ARG
5	F	390	PHE
1	K	118	ALA
1	K	187	GLY
1	L	118	ALA
2	M	10	ARG
2	M	59	LYS

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Mol	Chain	Res	Type
2	M	111	ASP
2	M	152	PRO
2	M	178	PRO
2	M	231	PRO
2	M	244	PRO
2	M	251	ASP
2	M	253	ALA
2	M	261	ILE
2	M	265	ARG
2	M	267	TYR
2	M	290	LEU
2	M	316	GLY
2	M	363	SER
2	M	369	PRO
2	M	419	THR
2	M	462	ASP
2	M	518	LYS
2	M	627	ARG
2	M	684	PHE
2	M	735	ARG
2	M	738	ASP
2	M	740	GLU
2	M	762	LYS
2	M	864	GLY
2	M	905	ILE
3	N	40	GLU
3	N	55	ASP
3	N	120	ALA
3	N	136	ASP
3	N	140	ALA
3	N	177	ALA
3	N	208	PRO
3	N	209	ARG
3	N	233	LYS
3	N	234	GLU
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	385	VAL
3	N	417	PRO
3	N	487	ALA

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Mol	Chain	Res	Type
3	N	807	ALA
3	N	832	ARG
3	N	1028	ALA
3	N	1066	THR
3	N	1125	PRO
3	N	1197	ARG
3	N	1208	ASP
3	N	1243	THR
3	N	1287	GLU
3	N	1389	LEU
3	N	1390	LEU
4	O	42	PRO
4	O	58	PRO
5	P	75	ILE
5	P	76	SER
5	P	77	THR
5	P	145	PRO
5	P	148	LYS
5	P	153	PRO
5	P	232	ARG
5	P	297	PRO
5	P	324	GLU
5	P	341	PRO
5	P	364	ARG
5	P	390	PHE
1	A	11	PHE
1	A	187	GLY
1	A	191	ASP
2	C	7	GLY
2	C	11	GLU
2	C	129	ILE
2	C	144	PRO
2	C	262	ALA
2	C	288	ARG
2	C	292	ARG
2	C	465	GLY
2	C	548	PRO
2	C	575	GLN
2	C	598	GLU
2	C	626	ARG
2	C	727	PRO
2	C	1005	MET

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Mol	Chain	Res	Type
2	C	1016	ILE
2	C	1106	ASP
3	D	37	LEU
3	D	40	GLU
3	D	43	GLY
3	D	88	TYR
3	D	119	SER
3	D	135	LEU
3	D	202	VAL
3	D	424	GLY
3	D	440	VAL
3	D	601	ARG
3	D	782	SER
3	D	1066	THR
3	D	1067	VAL
3	D	1111	ASP
3	D	1127	GLU
3	D	1129	THR
3	D	1265	ALA
3	D	1287	GLU
3	D	1475	GLY
4	E	43	GLU
5	F	147	LEU
5	F	232	ARG
5	F	255	ALA
1	K	188	GLN
2	M	7	GLY
2	M	11	GLU
2	M	23	VAL
2	M	129	ILE
2	M	130	ASN
2	M	262	ALA
2	M	292	ARG
2	M	465	GLY
2	M	548	PRO
2	M	598	GLU
2	M	626	ARG
2	M	727	PRO
2	M	1005	MET
2	M	1016	ILE
2	M	1106	ASP
3	N	37	LEU

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Mol	Chain	Res	Type
3	N	43	GLY
3	N	82	LYS
3	N	83	SER
3	N	88	TYR
3	N	98	PRO
3	N	119	SER
3	N	135	LEU
3	N	202	VAL
3	N	217	LYS
3	N	424	GLY
3	N	440	VAL
3	N	601	ARG
3	N	782	SER
3	N	1067	VAL
3	N	1089	ALA
3	N	1111	ASP
3	N	1127	GLU
3	N	1137	ARG
3	N	1265	ALA
3	N	1385	GLY
3	N	1388	ARG
3	N	1475	GLY
4	O	43	GLU
5	P	95	THR
5	P	420	ASP
2	C	130	ASN
2	C	164	PRO
2	C	170	PRO
2	C	457	ALA
2	C	739	GLU
2	C	767	PRO
2	C	1079	PRO
3	D	110	SER
3	D	115	LEU
3	D	117	ASP
3	D	137	PRO
3	D	190	GLU
3	D	410	SER
3	D	416	ALA
3	D	504	ASP
3	D	521	PRO
3	D	594	PRO

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Mol	Chain	Res	Type
3	D	705	ALA
3	D	922	LEU
3	D	1089	ALA
3	D	1385	GLY
3	D	1429	LEU
4	E	5	GLY
4	E	33	HIS
4	E	41	GLU
4	E	46	PRO
5	F	95	THR
5	F	286	PRO
5	F	420	ASP
5	F	421	PHE
1	K	11	PHE
1	L	191	ASP
2	M	144	PRO
2	M	164	PRO
2	M	170	PRO
2	M	223	ASP
2	M	288	ARG
2	M	381	ALA
2	M	457	ALA
2	M	699	PHE
2	M	739	GLU
2	M	767	PRO
3	N	115	LEU
3	N	137	PRO
3	N	189	GLN
3	N	206	ARG
3	N	410	SER
3	N	416	ALA
3	N	594	PRO
3	N	705	ALA
3	N	869	MET
3	N	922	LEU
3	N	1429	LEU
4	O	5	GLY
4	O	33	HIS
4	O	41	GLU
4	O	46	PRO
5	P	147	LEU
5	P	255	ALA

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Mol	Chain	Res	Type
5	P	285	GLU
5	P	286	PRO
5	P	329	TYR
1	A	59	GLU
1	B	11	PHE
1	B	59	GLU
1	B	191	ASP
2	C	23	VAL
2	C	277	ALA
2	C	381	ALA
2	C	415	PRO
2	C	699	PHE
3	D	31	THR
3	D	82	LYS
3	D	189	GLN
3	D	206	ARG
3	D	381	ALA
3	D	560	GLN
3	D	808	THR
3	D	869	MET
3	D	919	PHE
3	D	1051	GLU
3	D	1155	VAL
3	D	1248	GLY
3	D	1288	GLU
4	E	82	GLU
5	F	155	THR
5	F	285	GLU
5	F	329	TYR
1	K	59	GLU
1	K	191	ASP
1	L	11	PHE
1	L	59	GLU
2	M	277	ALA
2	M	415	PRO
2	M	1079	PRO
3	N	110	SER
3	N	133	ILE
3	N	149	LYS
3	N	190	GLU
3	N	504	ASP
3	N	521	PRO

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Mol	Chain	Res	Type
3	N	560	GLN
3	N	801	GLY
3	N	806	PHE
3	N	808	THR
3	N	936	TYR
3	N	1051	GLU
3	N	1155	VAL
3	N	1248	GLY
5	P	416	ARG
1	A	106	PRO
1	B	106	PRO
2	C	113	VAL
2	C	180	GLY
2	C	377	PRO
3	D	149	LYS
3	D	522	PRO
3	D	801	GLY
3	D	822	ALA
4	E	32	ARG
4	E	57	ASP
5	F	97	GLU
5	F	416	ARG
1	K	93	SER
1	K	106	PRO
2	M	180	GLY
2	M	434	HIS
2	M	1004	LYS
3	N	31	THR
3	N	522	PRO
3	N	822	ALA
3	N	919	PHE
3	N	945	SER
3	N	1019	PRO
4	O	32	ARG
4	O	57	ASP
4	O	82	GLU
2	C	202	TYR
2	C	1020	PRO
3	D	133	ILE
3	D	138	LYS
3	D	936	TYR
3	D	1213	ARG

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Mol	Chain	Res	Type
1	K	172	SER
1	L	106	PRO
2	M	113	VAL
2	M	377	PRO
2	M	575	GLN
3	N	117	ASP
3	N	381	ALA
3	N	406	ASP
3	N	1205	TYR
3	N	1213	ARG
5	P	167	PRO
2	C	779	GLY
3	D	245	LEU
3	D	509	PRO
3	D	1019	PRO
5	F	167	PRO
2	M	777	ILE
2	M	779	GLY
1	B	48	ILE
2	C	42	VAL
3	D	141	ILE
2	M	1020	PRO
3	N	245	LEU
2	C	811	PRO
2	C	876	VAL
3	D	175	VAL
2	M	42	VAL
2	M	876	VAL
3	N	78	VAL
3	N	108	VAL
3	N	141	ILE
3	N	173	PRO
2	C	777	ILE
3	D	78	VAL
3	D	425	GLY
3	D	670	VAL
3	N	425	GLY
3	N	526	PRO
2	C	1060	ILE
3	D	52	PRO
3	D	530	VAL
3	N	175	VAL

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Mol	Chain	Res	Type
2	M	166	PRO
2	C	166	PRO

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	183 (91%)	19 (9%)	8	21
1	B	202/273 (74%)	186 (92%)	16 (8%)	11	28
1	K	202/273 (74%)	187 (93%)	15 (7%)	13	32
1	L	202/273 (74%)	191 (95%)	11 (5%)	20	45
2	C	941/941 (100%)	817 (87%)	124 (13%)	4	10
2	M	941/941 (100%)	834 (89%)	107 (11%)	5	14
3	D	1123/1279 (88%)	990 (88%)	133 (12%)	5	13
3	N	1123/1279 (88%)	990 (88%)	133 (12%)	5	13
4	E	83/87 (95%)	71 (86%)	12 (14%)	3	8
4	O	83/87 (95%)	71 (86%)	12 (14%)	3	8
5	F	295/370 (80%)	261 (88%)	34 (12%)	5	14
5	P	295/370 (80%)	272 (92%)	23 (8%)	11	29
All	All	5692/6446 (88%)	5053 (89%)	639 (11%)	6	15

All (639) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ASP
1	A	5	LYS
1	A	9	PRO
1	A	13	VAL
1	A	15	THR
1	A	18	ARG
1	A	26	GLU
1	A	62	LEU

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Mol	Chain	Res	Type
1	A	92	PRO
1	A	95	GLN
1	A	96	THR
1	A	146	ARG
1	A	156	HIS
1	A	170	VAL
1	A	196	THR
1	A	197	LEU
1	A	206	THR
1	A	208	LEU
1	A	227	ASN
1	B	7	LYS
1	B	9	PRO
1	B	18	ARG
1	B	26	GLU
1	B	62	LEU
1	B	95	GLN
1	B	96	THR
1	B	119	ASP
1	B	128	HIS
1	B	134	GLU
1	B	138	LEU
1	B	139	ASN
1	B	140	MET
1	B	159	LYS
1	B	197	LEU
1	B	206	THR
2	C	4	LYS
2	C	6	PHE
2	C	8	ARG
2	C	30	LEU
2	C	41	ASN
2	C	42	VAL
2	C	48	PHE
2	C	52	PHE
2	C	54	ILE
2	C	73	LEU
2	C	87	ASP
2	C	107	LEU
2	C	113	VAL
2	C	114	PHE
2	C	115	LEU

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Mol	Chain	Res	Type
2	C	118	ILE
2	C	140	ILE
2	C	150	PRO
2	C	152	PRO
2	C	157	ARG
2	C	158	TYR
2	C	163	ILE
2	C	167	LYS
2	C	170	PRO
2	C	177	GLU
2	C	178	PRO
2	C	184	MET
2	C	186	VAL
2	C	188	LYS
2	C	194	VAL
2	C	198	ARG
2	C	203	ASP
2	C	207	LEU
2	C	211	LEU
2	C	216	GLU
2	C	217	LEU
2	C	218	VAL
2	C	224	GLU
2	C	246	ASP
2	C	247	PRO
2	C	256	TYR
2	C	257	VAL
2	C	261	ILE
2	C	268	ASP
2	C	288	ARG
2	C	289	THR
2	C	290	LEU
2	C	321	GLU
2	C	333	ILE
2	C	359	MET
2	C	367	LEU
2	C	389	SER
2	C	393	GLN
2	C	402	SER
2	C	418	LEU
2	C	420	ARG
2	C	425	PHE

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Mol	Chain	Res	Type
2	C	430	VAL
2	C	432	ARG
2	C	455	LEU
2	C	460	ARG
2	C	469	THR
2	C	474	VAL
2	C	500	ASN
2	C	507	ARG
2	C	523	ILE
2	C	527	GLU
2	C	559	LEU
2	C	564	MET
2	C	579	VAL
2	C	588	VAL
2	C	620	LEU
2	C	627	ARG
2	C	637	LEU
2	C	640	ARG
2	C	645	VAL
2	C	650	ARG
2	C	657	ASP
2	C	672	VAL
2	C	689	VAL
2	C	693	GLU
2	C	701	THR
2	C	719	PRO
2	C	722	ILE
2	C	727	PRO
2	C	729	LEU
2	C	734	LEU
2	C	739	GLU
2	C	755	LEU
2	C	762	LYS
2	C	773	LEU
2	C	785	VAL
2	C	799	ILE
2	C	803	THR
2	C	815	LEU
2	C	821	GLU
2	C	824	ARG
2	C	841	ASN
2	C	862	PRO

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Mol	Chain	Res	Type
2	C	865	THR
2	C	881	ASN
2	C	886	LEU
2	C	887	GLU
2	C	897	LEU
2	C	900	ARG
2	C	917	LEU
2	C	934	PHE
2	C	945	ARG
2	C	950	LEU
2	C	952	LEU
2	C	959	PRO
2	C	962	GLN
2	C	982	PRO
2	C	988	VAL
2	C	999	HIS
2	C	1003	ASP
2	C	1005	MET
2	C	1016	ILE
2	C	1017	THR
2	C	1020	PRO
2	C	1052	MET
2	C	1079	PRO
2	C	1097	LEU
2	C	1115	LEU
3	D	3	LYS
3	D	6	ARG
3	D	12	LEU
3	D	25	GLU
3	D	27	GLU
3	D	42	ASP
3	D	66	GLN
3	D	76	CYS
3	D	97	THR
3	D	98	PRO
3	D	103	TRP
3	D	121	THR
3	D	127	LEU
3	D	135	LEU
3	D	136	ASP
3	D	145	VAL
3	D	147	VAL

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Mol	Chain	Res	Type
3	D	149	LYS
3	D	152	LEU
3	D	168	THR
3	D	169	TYR
3	D	171	LEU
3	D	175	VAL
3	D	185	VAL
3	D	199	LEU
3	D	208	PRO
3	D	211	VAL
3	D	389	GLU
3	D	393	ILE
3	D	403	PHE
3	D	420	VAL
3	D	423	ASP
3	D	447	VAL
3	D	456	MET
3	D	465	LEU
3	D	476	GLU
3	D	488	ARG
3	D	521	PRO
3	D	528	VAL
3	D	554	LEU
3	D	594	PRO
3	D	602	SER
3	D	624	ASP
3	D	626	SER
3	D	629	SER
3	D	632	VAL
3	D	635	PRO
3	D	651	GLU
3	D	662	GLU
3	D	710	ARG
3	D	725	SER
3	D	727	GLN
3	D	749	VAL
3	D	770	LEU
3	D	781	PRO
3	D	782	SER
3	D	792	ILE
3	D	794	GLN
3	D	828	LYS

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Mol	Chain	Res	Type
3	D	829	VAL
3	D	834	THR
3	D	836	VAL
3	D	840	LYS
3	D	863	VAL
3	D	864	VAL
3	D	865	THR
3	D	873	LEU
3	D	894	LYS
3	D	899	LEU
3	D	904	VAL
3	D	935	LYS
3	D	986	ARG
3	D	1007	VAL
3	D	1029	ARG
3	D	1044	LEU
3	D	1046	GLN
3	D	1062	ARG
3	D	1096	ARG
3	D	1097	LYS
3	D	1101	VAL
3	D	1109	GLU
3	D	1112	CYS
3	D	1127	GLU
3	D	1134	LEU
3	D	1135	ARG
3	D	1152	GLU
3	D	1166	LEU
3	D	1168	MET
3	D	1173	LEU
3	D	1182	GLU
3	D	1183	ILE
3	D	1194	CYS
3	D	1196	THR
3	D	1207	TYR
3	D	1209	LEU
3	D	1211	MET
3	D	1213	ARG
3	D	1231	GLU
3	D	1238	MET
3	D	1243	THR
3	D	1252	ILE

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Mol	Chain	Res	Type
3	D	1253	THR
3	D	1257	PRO
3	D	1267	ARG
3	D	1269	LYS
3	D	1274	ILE
3	D	1278	ASP
3	D	1280	VAL
3	D	1283	ILE
3	D	1285	GLU
3	D	1304	LYS
3	D	1306	PRO
3	D	1314	LYS
3	D	1315	ASP
3	D	1317	ASP
3	D	1326	THR
3	D	1337	GLU
3	D	1344	VAL
3	D	1363	LEU
3	D	1375	MET
3	D	1381	VAL
3	D	1388	ARG
3	D	1389	LEU
3	D	1390	LEU
3	D	1396	GLU
3	D	1406	ARG
3	D	1412	LYS
3	D	1427	SER
3	D	1432	LYS
3	D	1435	LEU
3	D	1442	ASN
3	D	1456	LYS
3	D	1487	VAL
4	E	42	PRO
4	E	46	PRO
4	E	47	LYS
4	E	51	LEU
4	E	57	ASP
4	E	58	PRO
4	E	59	ASN
4	E	61	GLU
4	E	66	LYS
4	E	77	GLU

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Mol	Chain	Res	Type
4	E	79	LEU
4	E	94	PRO
5	F	84	TYR
5	F	94	LEU
5	F	120	THR
5	F	124	PRO
5	F	125	ASP
5	F	131	VAL
5	F	149	GLU
5	F	156	VAL
5	F	174	LEU
5	F	187	LEU
5	F	203	THR
5	F	230	LYS
5	F	234	LYS
5	F	270	LYS
5	F	280	GLN
5	F	282	LEU
5	F	285	GLU
5	F	295	MET
5	F	297	PRO
5	F	307	THR
5	F	312	GLN
5	F	341	PRO
5	F	347	GLN
5	F	352	GLU
5	F	361	LEU
5	F	362	SER
5	F	364	ARG
5	F	370	LYS
5	F	375	LEU
5	F	392	VAL
5	F	398	ARG
5	F	405	LEU
5	F	407	LYS
5	F	409	LYS
1	K	5	LYS
1	K	10	VAL
1	K	12	THR
1	K	15	THR
1	K	18	ARG
1	K	26	GLU

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Mol	Chain	Res	Type
1	K	62	LEU
1	K	95	GLN
1	K	96	THR
1	K	167	VAL
1	K	186	LEU
1	K	201	THR
1	K	206	THR
1	K	223	THR
1	K	227	ASN
1	L	1	MET
1	L	2	LEU
1	L	5	LYS
1	L	18	ARG
1	L	26	GLU
1	L	62	LEU
1	L	95	GLN
1	L	96	THR
1	L	145	ASP
1	L	196	THR
1	L	206	THR
2	M	26	TYR
2	M	30	LEU
2	M	31	GLN
2	M	34	VAL
2	M	41	ASN
2	M	42	VAL
2	M	52	PHE
2	M	68	PHE
2	M	107	LEU
2	M	115	LEU
2	M	129	ILE
2	M	144	PRO
2	M	152	PRO
2	M	158	TYR
2	M	170	PRO
2	M	178	PRO
2	M	185	LYS
2	M	186	VAL
2	M	194	VAL
2	M	198	ARG
2	M	203	ASP
2	M	207	LEU

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Mol	Chain	Res	Type
2	M	209	ARG
2	M	216	GLU
2	M	218	VAL
2	M	221	LEU
2	M	230	ARG
2	M	243	ARG
2	M	254	VAL
2	M	256	TYR
2	M	257	VAL
2	M	288	ARG
2	M	290	LEU
2	M	328	LEU
2	M	333	ILE
2	M	335	THR
2	M	343	GLN
2	M	359	MET
2	M	384	GLU
2	M	393	GLN
2	M	397	GLU
2	M	407	LYS
2	M	413	LEU
2	M	418	LEU
2	M	420	ARG
2	M	426	ASP
2	M	432	ARG
2	M	452	ILE
2	M	455	LEU
2	M	474	VAL
2	M	481	ASP
2	M	503	LEU
2	M	514	VAL
2	M	523	ILE
2	M	542	VAL
2	M	543	ASN
2	M	548	PRO
2	M	551	GLU
2	M	564	MET
2	M	620	LEU
2	M	645	VAL
2	M	650	ARG
2	M	701	THR
2	M	716	LYS

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Mol	Chain	Res	Type
2	M	727	PRO
2	M	728	HIS
2	M	729	LEU
2	M	737	LEU
2	M	750	LYS
2	M	751	PRO
2	M	762	LYS
2	M	765	SER
2	M	774	LEU
2	M	777	ILE
2	M	785	VAL
2	M	799	ILE
2	M	839	LEU
2	M	841	ASN
2	M	848	VAL
2	M	865	THR
2	M	869	VAL
2	M	871	LEU
2	M	876	VAL
2	M	879	ARG
2	M	881	ASN
2	M	886	LEU
2	M	904	PRO
2	M	928	LYS
2	M	937	ASP
2	M	948	GLU
2	M	950	LEU
2	M	958	THR
2	M	960	GLU
2	M	973	VAL
2	M	974	LEU
2	M	981	GLU
2	M	984	GLU
2	M	988	VAL
2	M	1015	LEU
2	M	1026	GLN
2	M	1057	SER
2	M	1079	PRO
2	M	1097	LEU
2	M	1098	ASP
2	M	1105	LYS
2	M	1110	ASP

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Mol	Chain	Res	Type
2	M	1111	ILE
3	N	12	LEU
3	N	23	TYR
3	N	25	GLU
3	N	34	TYR
3	N	47	GLU
3	N	53	ILE
3	N	65	ARG
3	N	76	CYS
3	N	84	ILE
3	N	98	PRO
3	N	115	LEU
3	N	122	GLU
3	N	123	LEU
3	N	126	VAL
3	N	128	TYR
3	N	131	LYS
3	N	135	LEU
3	N	138	LYS
3	N	142	LEU
3	N	143	ASN
3	N	145	VAL
3	N	147	VAL
3	N	149	LYS
3	N	154	THR
3	N	168	THR
3	N	178	LEU
3	N	185	VAL
3	N	190	GLU
3	N	197	SER
3	N	199	LEU
3	N	205	TYR
3	N	208	PRO
3	N	211	VAL
3	N	393	ILE
3	N	394	LEU
3	N	403	PHE
3	N	420	VAL
3	N	427	VAL
3	N	432	TYR
3	N	442	ASN
3	N	444	VAL

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Mol	Chain	Res	Type
3	N	447	VAL
3	N	448	GLU
3	N	452	ILE
3	N	474	GLU
3	N	482	LYS
3	N	503	LEU
3	N	510	GLU
3	N	513	ILE
3	N	521	PRO
3	N	549	ASN
3	N	554	LEU
3	N	567	ILE
3	N	581	LEU
3	N	594	PRO
3	N	601	ARG
3	N	602	SER
3	N	604	THR
3	N	624	ASP
3	N	644	LEU
3	N	660	LYS
3	N	661	MET
3	N	676	MET
3	N	679	ARG
3	N	681	ARG
3	N	703	ASN
3	N	707	THR
3	N	711	LEU
3	N	722	GLU
3	N	724	GLN
3	N	739	ASP
3	N	794	GLN
3	N	828	LYS
3	N	829	VAL
3	N	845	ASN
3	N	847	ASP
3	N	851	LEU
3	N	863	VAL
3	N	864	VAL
3	N	865	THR
3	N	880	ILE
3	N	886	VAL
3	N	897	TRP

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Mol	Chain	Res	Type
3	N	899	LEU
3	N	902	LEU
3	N	903	ASP
3	N	912	LYS
3	N	942	SER
3	N	943	THR
3	N	947	ILE
3	N	951	ILE
3	N	970	LYS
3	N	1005	GLN
3	N	1029	ARG
3	N	1045	MET
3	N	1066	THR
3	N	1068	LEU
3	N	1083	ASP
3	N	1096	ARG
3	N	1101	VAL
3	N	1109	GLU
3	N	1112	CYS
3	N	1124	GLN
3	N	1127	GLU
3	N	1134	LEU
3	N	1137	ARG
3	N	1161	GLU
3	N	1166	LEU
3	N	1169	ASP
3	N	1183	ILE
3	N	1197	ARG
3	N	1207	TYR
3	N	1243	THR
3	N	1252	ILE
3	N	1253	THR
3	N	1257	PRO
3	N	1274	ILE
3	N	1285	GLU
3	N	1287	GLU
3	N	1297	GLU
3	N	1308	GLU
3	N	1311	LEU
3	N	1314	LYS
3	N	1341	PRO
3	N	1342	GLU

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Mol	Chain	Res	Type
3	N	1359	GLN
3	N	1376	MET
3	N	1389	LEU
3	N	1396	GLU
3	N	1415	VAL
3	N	1442	ASN
3	N	1468	LEU
3	N	1497	GLU
4	O	3	GLU
4	O	20	THR
4	O	32	ARG
4	O	40	LEU
4	O	42	PRO
4	O	46	PRO
4	O	51	LEU
4	O	58	PRO
4	O	59	ASN
4	O	61	GLU
4	O	85	LEU
4	O	89	MET
5	P	84	TYR
5	P	91	VAL
5	P	120	THR
5	P	122	LEU
5	P	142	ARG
5	P	148	LYS
5	P	149	GLU
5	P	170	HIS
5	P	174	LEU
5	P	194	LEU
5	P	208	SER
5	P	280	GLN
5	P	281	GLU
5	P	295	MET
5	P	318	GLU
5	P	324	GLU
5	P	341	PRO
5	P	347	GLN
5	P	353	GLU
5	P	375	LEU
5	P	401	GLU
5	P	406	ARG

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Mol	Chain	Res	Type
5	P	409	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (182) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	91	ASN
1	A	95	GLN
1	A	124	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	212	ASN
1	A	213	GLN
1	A	227	ASN
1	B	63	HIS
1	B	91	ASN
1	B	95	GLN
1	B	124	ASN
1	B	163	ASN
1	B	212	ASN
1	B	221	HIS
1	B	227	ASN
2	C	31	GLN
2	C	41	ASN
2	C	45	GLN
2	C	91	GLN
2	C	99	GLN
2	C	117	HIS
2	C	204	GLN
2	C	330	ASN
2	C	343	GLN
2	C	393	GLN
2	C	406	HIS
2	C	434	HIS
2	C	448	ASN
2	C	506	ASN
2	C	538	GLN
2	C	552	HIS
2	C	567	GLN
2	C	609	ASN
2	C	632	ASN

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Mol	Chain	Res	Type
2	C	670	GLN
2	C	671	ASN
2	C	829	GLN
2	C	834	GLN
2	C	841	ASN
2	C	843	HIS
2	C	881	ASN
2	C	889	HIS
2	C	991	GLN
2	C	1018	GLN
2	C	1019	GLN
2	C	1100	GLN
3	D	125	GLN
3	D	462	GLN
3	D	483	HIS
3	D	560	GLN
3	D	575	GLN
3	D	616	GLN
3	D	640	HIS
3	D	641	GLN
3	D	669	ASN
3	D	696	HIS
3	D	703	ASN
3	D	717	GLN
3	D	744	GLN
3	D	756	GLN
3	D	768	ASN
3	D	816	HIS
3	D	962	GLN
3	D	976	GLN
3	D	991	GLN
3	D	994	GLN
3	D	1005	GLN
3	D	1046	GLN
3	D	1124	GLN
3	D	1202	GLN
3	D	1242	HIS
3	D	1404	ASN
3	D	1489	GLN
4	E	86	GLN
5	F	90	GLN
5	F	161	GLN

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Mol	Chain	Res	Type
5	F	191	ASN
5	F	217	ASN
5	F	245	GLN
5	F	269	ASN
5	F	337	HIS
5	F	402	ASN
5	F	411	HIS
1	K	38	ASN
1	K	81	ASN
1	K	95	GLN
1	K	124	ASN
1	K	156	HIS
1	K	163	ASN
1	K	180	GLN
1	K	212	ASN
1	K	227	ASN
1	L	95	GLN
1	L	124	ASN
1	L	180	GLN
1	L	213	GLN
1	L	221	HIS
1	L	229	GLN
2	M	31	GLN
2	M	41	ASN
2	M	99	GLN
2	M	117	HIS
2	M	204	GLN
2	M	330	ASN
2	M	343	GLN
2	M	431	HIS
2	M	434	HIS
2	M	538	GLN
2	M	545	ASN
2	M	552	HIS
2	M	556	ASN
2	M	565	GLN
2	M	567	GLN
2	M	575	GLN
2	M	633	GLN
2	M	663	ASN
2	M	670	GLN
2	M	829	GLN

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Mol	Chain	Res	Type
2	M	841	ASN
2	M	881	ASN
2	M	884	GLN
2	M	899	GLN
2	M	969	GLN
2	M	999	HIS
2	M	1018	GLN
2	M	1019	GLN
2	M	1026	GLN
2	M	1030	GLN
2	M	1093	GLN
2	M	1100	GLN
2	M	1107	ASN
3	N	101	HIS
3	N	125	GLN
3	N	151	GLN
3	N	166	GLN
3	N	442	ASN
3	N	462	GLN
3	N	529	GLN
3	N	552	ASN
3	N	560	GLN
3	N	575	GLN
3	N	636	GLN
3	N	641	GLN
3	N	680	GLN
3	N	709	HIS
3	N	724	GLN
3	N	727	GLN
3	N	737	ASN
3	N	744	GLN
3	N	756	GLN
3	N	767	HIS
3	N	768	ASN
3	N	794	GLN
3	N	976	GLN
3	N	991	GLN
3	N	994	GLN
3	N	1005	GLN
3	N	1010	ASN
3	N	1014	ASN
3	N	1025	GLN

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Mol	Chain	Res	Type
3	N	1235	GLN
3	N	1323	GLN
3	N	1359	GLN
3	N	1393	GLN
3	N	1442	ASN
3	N	1465	ASN
4	O	28	GLN
4	O	29	GLN
4	O	33	HIS
5	P	83	GLN
5	P	90	GLN
5	P	161	GLN
5	P	186	HIS
5	P	191	ASN
5	P	254	GLN
5	P	277	GLN
5	P	279	GLN
5	P	280	GLN
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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

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

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the

expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
8	G4P	N	9100	6	36,38,38	1.40	2 (5%)	56,61,61	1.37	10 (17%)
8	G4P	N	9101	6	36,38,38	1.08	3 (8%)	56,61,61	1.18	6 (10%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	G4P	N	9100	6	-	8/27/43/43	0/3/3/3
8	G4P	N	9101	6	-	10/27/43/43	0/3/3/3

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	N	9100	G4P	PC-O3C	6.21	1.66	1.59
8	N	9100	G4P	PD-O3D	2.82	1.65	1.54
8	N	9101	G4P	PD-O3D	2.48	1.64	1.54
8	N	9101	G4P	PA-O3A	2.27	1.61	1.59
8	N	9101	G4P	C6-N1	2.26	1.43	1.38

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	N	9101	G4P	O3'-C3'-C4'	4.38	125.47	110.03
8	N	9100	G4P	O3A-PA-O1A	-3.31	100.75	110.70
8	N	9100	G4P	C2'-C3'-C4'	3.09	108.65	103.24
8	N	9100	G4P	O3B-PB-O3A	-3.07	94.35	104.64
8	N	9100	G4P	O3'-PC-O1C	-2.88	100.61	109.81
8	N	9100	G4P	O5'-PA-O1A	2.80	120.03	108.94
8	N	9101	G4P	C2'-C1'-N9	-2.59	106.05	113.25
8	N	9100	G4P	O3'-C3'-C2'	2.48	120.57	111.68
8	N	9100	G4P	O3'-C3'-C4'	2.41	118.52	110.03
8	N	9101	G4P	C2'-C3'-C4'	2.29	107.24	103.24
8	N	9100	G4P	O3B-PB-O1B	2.15	119.20	110.83
8	N	9101	G4P	O2D-PD-O3C	2.14	111.81	104.64
8	N	9101	G4P	O4'-C1'-N9	2.12	113.16	108.36
8	N	9101	G4P	O2'-C2'-C3'	2.12	117.11	111.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	N	9100	G4P	O4'-C4'-C3'	-2.06	100.58	104.92
8	N	9100	G4P	O3C-PC-O1C	2.05	116.86	110.70

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	N	9100	G4P	PA-O3A-PB-O2B
8	N	9100	G4P	C5'-O5'-PA-O3A
8	N	9100	G4P	C5'-O5'-PA-O1A
8	N	9100	G4P	C4'-C5'-O5'-PA
8	N	9100	G4P	PC-O3C-PD-O3D
8	N	9101	G4P	PA-O3A-PB-O3B
8	N	9101	G4P	C5'-O5'-PA-O3A
8	N	9101	G4P	C5'-O5'-PA-O1A
8	N	9101	G4P	C5'-O5'-PA-O2A
8	N	9101	G4P	C2'-C3'-O3'-PC
8	N	9101	G4P	C3'-O3'-PC-O3C
8	N	9101	G4P	C4'-C5'-O5'-PA
8	N	9100	G4P	C5'-O5'-PA-O2A
8	N	9100	G4P	PC-O3C-PD-O1D
8	N	9100	G4P	PA-O3A-PB-O3B
8	N	9101	G4P	C3'-O3'-PC-O1C
8	N	9101	G4P	C3'-O3'-PC-O2C
8	N	9101	G4P	PA-O3A-PB-O1B

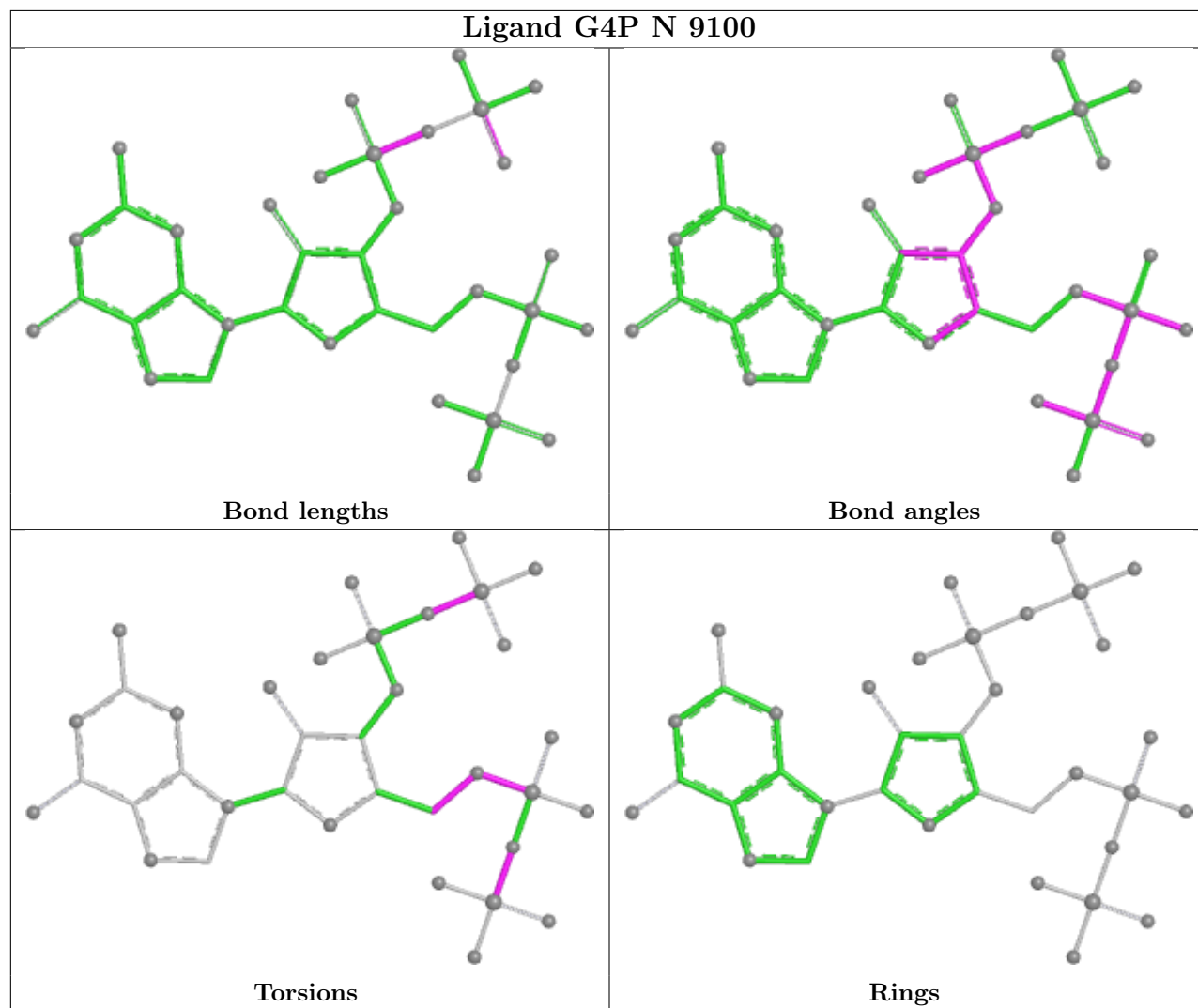
There are no ring outliers.

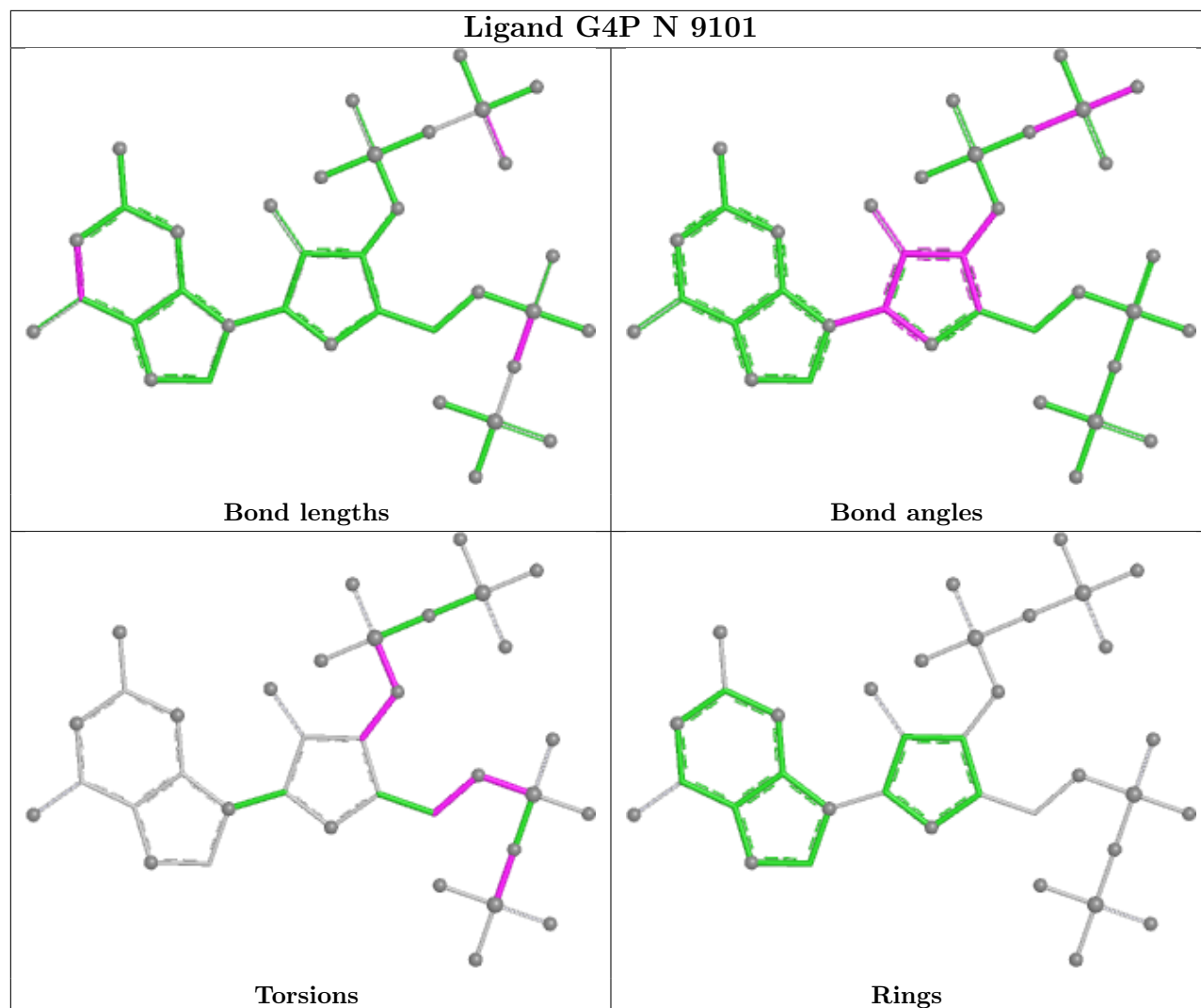
2 monomers are involved in 9 short contacts:

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

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å²)	Q<0.9
1	A	229/315 (72%)	-1.76	0	100	100	39, 65, 90, 121	0
1	B	229/315 (72%)	-1.64	0	100	100	58, 82, 103, 129	0
1	K	229/315 (72%)	-1.73	0	100	100	42, 65, 87, 117	0
1	L	229/315 (72%)	-1.64	0	100	100	54, 88, 104, 122	0
2	C	1119/1119 (100%)	-1.66	0	100	100	31, 73, 106, 124	0
2	M	1119/1119 (100%)	-1.62	1 (0%)	92	91	30, 75, 110, 122	0
3	D	1392/1524 (91%)	-1.65	0	100	100	33, 71, 108, 152	0
3	N	1392/1524 (91%)	-1.63	0	100	100	35, 71, 108, 145	0
4	E	95/99 (95%)	-1.78	0	100	100	49, 79, 103, 109	0
4	O	95/99 (95%)	-1.74	0	100	100	42, 81, 111, 119	0
5	F	345/423 (81%)	-1.53	0	100	100	53, 84, 111, 126	0
5	P	345/423 (81%)	-1.53	0	100	100	41, 83, 110, 117	0
All	All	6818/7590 (89%)	-1.64	1 (0%)	100	100	30, 74, 108, 152	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	M	39	ARG	2.4

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

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

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
6	MG	D	9384	1/1	0.99	0.02	20,20,20,20	0
6	MG	A	9212	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9224	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9227	1/1	1.00	0.02	20,20,20,20	0
6	MG	A	9254	1/1	1.00	0.04	20,20,20,20	0
6	MG	A	9268	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9273	1/1	1.00	0.02	20,20,20,20	0
6	MG	A	9295	1/1	1.00	0.02	20,20,20,20	0
6	MG	A	9318	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9327	1/1	1.00	0.02	20,20,20,20	0
6	MG	A	9329	1/1	1.00	0.04	20,20,20,20	0
6	MG	A	9334	1/1	1.00	0.04	20,20,20,20	0
6	MG	A	9365	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9368	1/1	1.00	0.03	20,20,20,20	0
6	MG	A	9394	1/1	1.00	0.04	20,20,20,20	0
6	MG	A	9423	1/1	1.00	0.02	20,20,20,20	0
6	MG	A	9437	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9442	1/1	1.00	0.04	20,20,20,20	0
6	MG	A	9462	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9464	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9473	1/1	1.00	0.04	20,20,20,20	0
6	MG	A	9486	1/1	1.00	0.02	20,20,20,20	0
6	MG	A	9487	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9517	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9520	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9521	1/1	1.00	0.02	20,20,20,20	0
6	MG	A	9543	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9544	1/1	1.00	0.02	20,20,20,20	0
6	MG	A	9555	1/1	1.00	0.03	20,20,20,20	0
6	MG	B	9228	1/1	1.00	0.02	20,20,20,20	0
6	MG	B	9230	1/1	1.00	0.01	20,20,20,20	0
6	MG	B	9235	1/1	1.00	0.02	20,20,20,20	0
6	MG	B	9256	1/1	1.00	0.03	20,20,20,20	0
6	MG	B	9260	1/1	1.00	0.02	20,20,20,20	0
6	MG	B	9280	1/1	1.00	0.02	20,20,20,20	0
6	MG	B	9281	1/1	1.00	0.02	20,20,20,20	0
6	MG	B	9306	1/1	1.00	0.01	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	MG	B	9311	1/1	1.00	0.07	20,20,20,20	0
6	MG	B	9412	1/1	1.00	0.03	20,20,20,20	0
6	MG	B	9413	1/1	1.00	0.04	20,20,20,20	0
6	MG	B	9420	1/1	1.00	0.01	20,20,20,20	0
6	MG	B	9426	1/1	1.00	0.05	20,20,20,20	0
6	MG	B	9427	1/1	1.00	0.03	20,20,20,20	0
6	MG	B	9446	1/1	1.00	0.04	20,20,20,20	0
6	MG	B	9458	1/1	1.00	0.03	20,20,20,20	0
6	MG	B	9485	1/1	1.00	0.05	20,20,20,20	0
6	MG	B	9488	1/1	1.00	0.01	20,20,20,20	0
6	MG	B	9491	1/1	1.00	0.01	20,20,20,20	0
6	MG	B	9541	1/1	1.00	0.05	20,20,20,20	0
6	MG	B	9552	1/1	1.00	0.03	20,20,20,20	0
6	MG	B	9560	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9202	1/1	1.00	0.03	43,43,43,43	0
6	MG	C	9210	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9213	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9217	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9219	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9221	1/1	1.00	0.06	20,20,20,20	0
6	MG	C	9222	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9223	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9231	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9238	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9239	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9243	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9255	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9257	1/1	1.00	0.06	20,20,20,20	0
6	MG	C	9259	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9263	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9264	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9266	1/1	1.00	0.08	20,20,20,20	0
6	MG	C	9267	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9272	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9282	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9284	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9287	1/1	1.00	0.05	20,20,20,20	0
6	MG	C	9289	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9292	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9293	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9299	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9300	1/1	1.00	0.03	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	MG	C	9313	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9316	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9320	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9321	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9328	1/1	1.00	0.07	20,20,20,20	0
6	MG	C	9330	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9335	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9338	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9339	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9345	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9346	1/1	1.00	0.07	20,20,20,20	0
6	MG	C	9347	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9348	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9354	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9356	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9358	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9359	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9364	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9367	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9371	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9378	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9381	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9383	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9385	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9387	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9395	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9396	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9397	1/1	1.00	0.05	20,20,20,20	0
6	MG	C	9405	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9408	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9411	1/1	1.00	0.06	20,20,20,20	0
6	MG	C	9418	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9422	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9429	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9430	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9438	1/1	1.00	0.06	20,20,20,20	0
6	MG	C	9441	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9444	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9451	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9454	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9459	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9465	1/1	1.00	0.05	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	MG	C	9466	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9474	1/1	1.00	0.05	20,20,20,20	0
6	MG	C	9476	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9489	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9493	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9497	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9501	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9507	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9509	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9511	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9514	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9519	1/1	1.00	0.05	20,20,20,20	0
6	MG	C	9522	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9524	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9525	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9534	1/1	1.00	0.04	20,20,20,20	0
6	MG	C	9542	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9549	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9550	1/1	1.00	0.01	20,20,20,20	0
6	MG	C	9553	1/1	1.00	0.03	20,20,20,20	0
6	MG	C	9554	1/1	1.00	0.02	20,20,20,20	0
6	MG	C	9561	1/1	1.00	0.05	20,20,20,20	0
6	MG	D	9201	1/1	1.00	0.01	30,30,30,30	0
6	MG	D	9203	1/1	1.00	0.03	25,25,25,25	0
6	MG	D	9204	1/1	1.00	0.04	38,38,38,38	0
6	MG	D	9208	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9211	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9214	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9215	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9216	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9218	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9220	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9225	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9226	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9232	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9233	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9234	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9236	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9237	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9240	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9241	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9242	1/1	1.00	0.01	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	MG	D	9246	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9247	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9248	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9252	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9253	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9258	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9261	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9262	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9265	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9269	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9271	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9274	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9276	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9277	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9279	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9283	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9285	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9286	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9291	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9294	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9296	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9301	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9304	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9307	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9308	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9312	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9314	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9315	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9317	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9319	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9322	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9325	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9331	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9332	1/1	1.00	0.00	20,20,20,20	0
6	MG	D	9333	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9336	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9337	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9342	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9343	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9344	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9349	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9350	1/1	1.00	0.02	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	MG	D	9351	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9353	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9355	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9357	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9360	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9361	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9362	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9363	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9369	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9370	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9372	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9376	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9377	1/1	1.00	0.05	20,20,20,20	0
6	MG	D	9379	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9380	1/1	1.00	0.01	20,20,20,20	0
6	MG	A	9209	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9386	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9390	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9391	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9392	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9393	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9399	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9400	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9401	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9402	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9403	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9404	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9406	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9409	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9410	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9416	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9417	1/1	1.00	0.06	20,20,20,20	0
6	MG	D	9419	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9421	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9428	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9433	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9434	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9435	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9439	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9440	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9443	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9447	1/1	1.00	0.01	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	MG	D	9448	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9452	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9455	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9456	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9460	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9461	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9467	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9469	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9470	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9472	1/1	1.00	0.05	20,20,20,20	0
6	MG	D	9475	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9477	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9478	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9479	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9480	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9481	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9482	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9490	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9492	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9498	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9499	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9502	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9503	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9505	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9506	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9510	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9512	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9515	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9518	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9523	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9526	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9527	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9528	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9529	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9532	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9533	1/1	1.00	0.02	20,20,20,20	0
6	MG	D	9535	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9536	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9539	1/1	1.00	0.04	20,20,20,20	0
6	MG	D	9546	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9547	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9548	1/1	1.00	0.01	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	MG	D	9556	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9557	1/1	1.00	0.01	20,20,20,20	0
6	MG	D	9559	1/1	1.00	0.03	20,20,20,20	0
6	MG	D	9562	1/1	1.00	0.02	20,20,20,20	0
6	MG	E	9249	1/1	1.00	0.01	20,20,20,20	0
6	MG	E	9275	1/1	1.00	0.01	20,20,20,20	0
6	MG	E	9288	1/1	1.00	0.02	20,20,20,20	0
6	MG	E	9341	1/1	1.00	0.03	20,20,20,20	0
6	MG	E	9352	1/1	1.00	0.01	20,20,20,20	0
6	MG	E	9366	1/1	1.00	0.04	20,20,20,20	0
6	MG	E	9373	1/1	1.00	0.02	20,20,20,20	0
6	MG	E	9389	1/1	1.00	0.02	20,20,20,20	0
6	MG	E	9415	1/1	1.00	0.02	20,20,20,20	0
6	MG	E	9431	1/1	1.00	0.04	20,20,20,20	0
6	MG	E	9432	1/1	1.00	0.05	20,20,20,20	0
6	MG	E	9449	1/1	1.00	0.01	20,20,20,20	0
6	MG	E	9457	1/1	1.00	0.04	20,20,20,20	0
6	MG	E	9484	1/1	1.00	0.02	20,20,20,20	0
6	MG	E	9494	1/1	1.00	0.02	20,20,20,20	0
6	MG	E	9538	1/1	1.00	0.01	20,20,20,20	0
6	MG	E	9551	1/1	1.00	0.03	20,20,20,20	0
6	MG	F	9229	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9244	1/1	1.00	0.05	20,20,20,20	0
6	MG	F	9245	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9250	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9251	1/1	1.00	0.04	20,20,20,20	0
6	MG	F	9270	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9278	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9290	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9297	1/1	1.00	0.03	20,20,20,20	0
6	MG	F	9298	1/1	1.00	0.03	20,20,20,20	0
6	MG	F	9302	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9303	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9305	1/1	1.00	0.08	20,20,20,20	0
6	MG	F	9309	1/1	1.00	0.03	20,20,20,20	0
6	MG	F	9310	1/1	1.00	0.03	20,20,20,20	0
6	MG	F	9323	1/1	1.00	0.03	20,20,20,20	0
6	MG	F	9324	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9326	1/1	1.00	0.05	20,20,20,20	0
6	MG	F	9340	1/1	1.00	0.03	20,20,20,20	0
6	MG	F	9374	1/1	1.00	0.03	20,20,20,20	0
6	MG	F	9375	1/1	1.00	0.01	20,20,20,20	0

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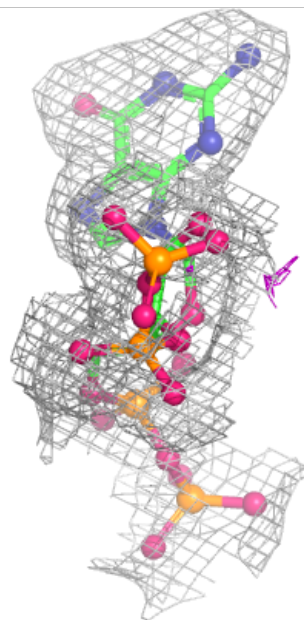
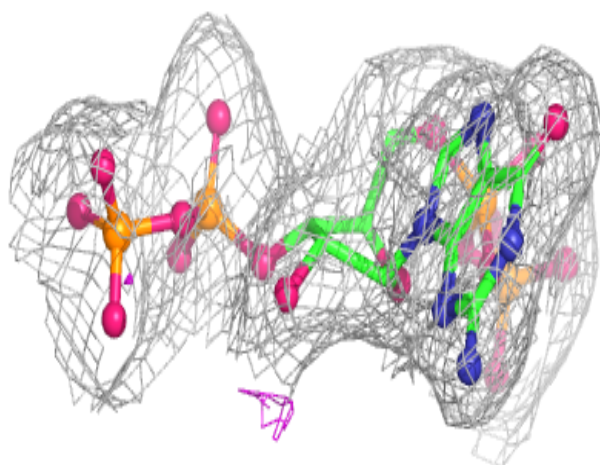
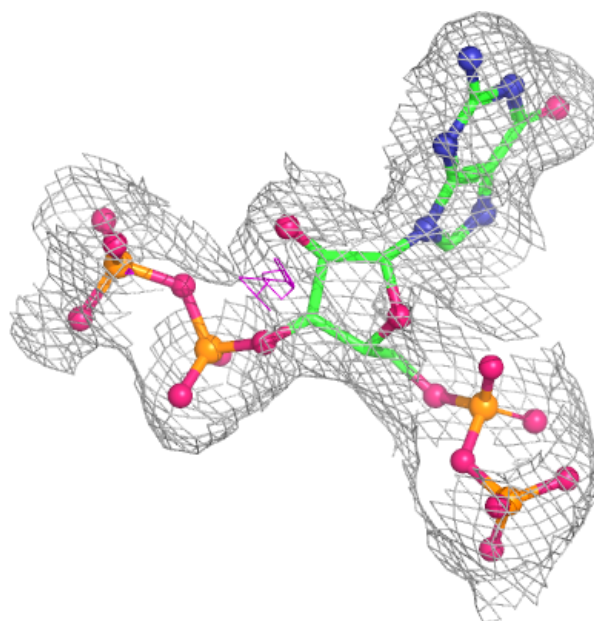
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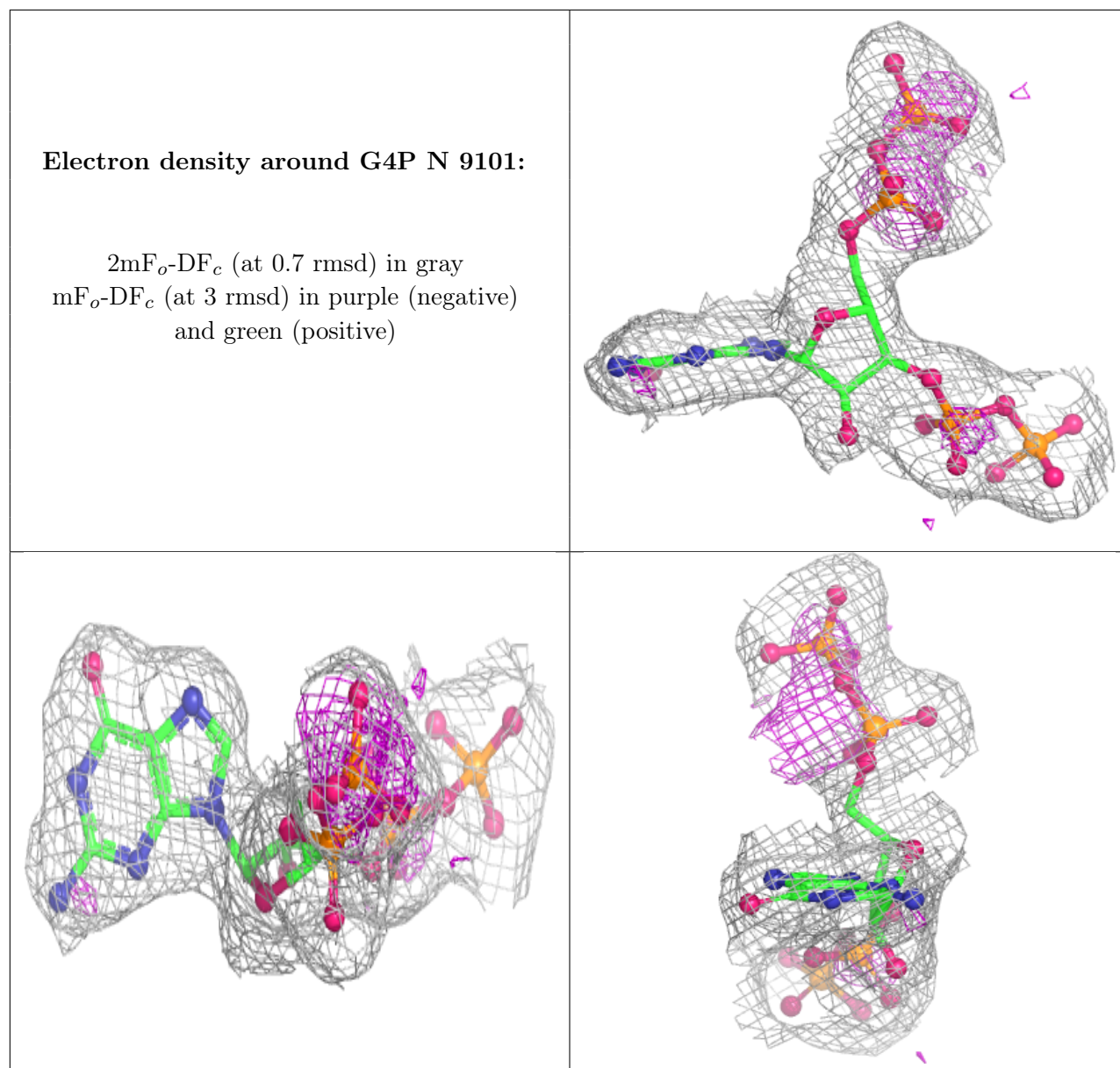
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	MG	F	9382	1/1	1.00	0.03	20,20,20,20	0
6	MG	F	9388	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9398	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9407	1/1	1.00	0.04	20,20,20,20	0
6	MG	F	9414	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9424	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9425	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9436	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9445	1/1	1.00	0.04	20,20,20,20	0
6	MG	F	9450	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9453	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9463	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9468	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9471	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9483	1/1	1.00	0.04	20,20,20,20	0
6	MG	F	9495	1/1	1.00	0.03	20,20,20,20	0
6	MG	F	9496	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9500	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9504	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9508	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9513	1/1	1.00	0.04	20,20,20,20	0
6	MG	F	9516	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9530	1/1	1.00	0.04	20,20,20,20	0
6	MG	F	9531	1/1	1.00	0.03	20,20,20,20	0
6	MG	F	9537	1/1	1.00	0.04	20,20,20,20	0
6	MG	F	9540	1/1	1.00	0.01	20,20,20,20	0
6	MG	F	9545	1/1	1.00	0.02	20,20,20,20	0
6	MG	F	9558	1/1	1.00	0.01	20,20,20,20	0
6	MG	M	9206	1/1	1.00	0.03	38,38,38,38	0
6	MG	N	9205	1/1	1.00	0.01	16,16,16,16	0
6	MG	N	9207	1/1	1.00	0.07	37,37,37,37	0
7	ZN	D	9102	1/1	1.00	0.02	115,115,115,115	0
7	ZN	D	9103	1/1	1.00	0.01	87,87,87,87	0
7	ZN	N	9104	1/1	1.00	0.02	116,116,116,116	0
7	ZN	N	9105	1/1	1.00	0.01	80,80,80,80	0
8	G4P	N	9100	36/36	1.00	0.02	35,45,54,55	0
8	G4P	N	9101	36/36	1.00	0.02	35,45,50,50	0

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

Electron density around G4P N 9100:

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





6.5 Other polymers ⓘ

There are no such residues in this entry.