



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 28, 2014 – 01:02 PM GMT

PDB ID : 2A69
Title : Crystal structure of the T. Thermophilus RNA polymerase holoenzyme in complex with antibiotic rifapentin
Authors : Artsimovitch, I.; Vassilyeva, M.N.; Svetlov, D.; Svetlov, V.; Perederina, A.; Igarashi, N.; Matsugaki, N.; Wakatsuki, S.; Tahirov, T.H.; Vassilyev, D.G.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)
Deposited on : 2005-07-02
Resolution : 2.50 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

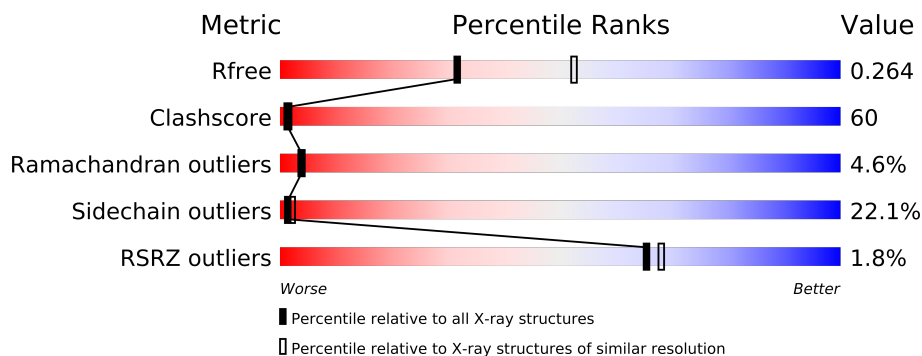
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 2.50 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	66092	2784 (2.50-2.50)
Clashscore	79885	3562 (2.50-2.50)
Ramachandran outliers	78287	3480 (2.50-2.50)
Sidechain outliers	78261	3482 (2.50-2.50)
RSRZ outliers	66119	2785 (2.50-2.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	315	
1	B	315	
1	K	315	
1	L	315	
2	C	1119	
2	M	1119	
3	D	1524	
3	N	1524	
4	E	99	
4	O	99	
5	F	423	
5	P	423	

The following table lists non-polymeric compounds that are outliers for geometric or electron-

density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
6	MG	A	9043	-	X
6	MG	A	9384	-	X
6	MG	B	9040	-	X
6	MG	B	9056	-	X
6	MG	C	9025	-	X
6	MG	C	9067	-	X
6	MG	D	9064	-	X
6	MG	D	9373	-	X
6	MG	F	9159	-	X
6	MG	F	9376	-	X
6	MG	L	9306	-	X
6	MG	M	9190	-	X
6	MG	M	9416	-	X
6	MG	N	9192	-	X
6	MG	N	9193	-	X
6	MG	N	9217	-	X
6	MG	N	9253	-	X
6	MG	N	9267	-	X
6	MG	N	9444	-	X
6	MG	O	9198	-	X
7	RPT	C	8001	-	X
7	RPT	M	8002	-	X

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 60572 atoms, of which 0 are hydrogen and 0 are deuterium.

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			
2	M	1119	Total	C	N	O	S	0	0	0
			8829	5581	1577	1647	24			

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

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

- Molecule 4 is a protein called RNA polymerase omega chain.

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

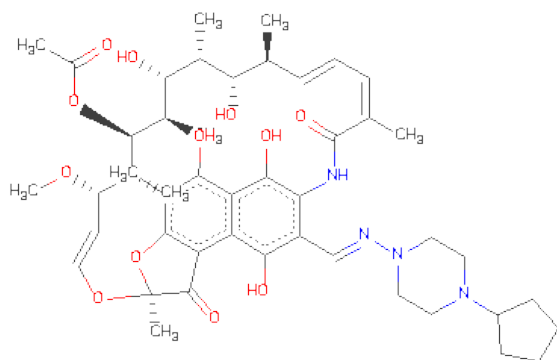
- Molecule 5 is a protein called RNA polymerase sigma factor rpoD.

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

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	P	20	Total	Mg	0	0
			20	20		
6	D	106	Total	Mg	0	0
			106	106		
6	K	19	Total	Mg	0	0
			19	19		
6	E	5	Total	Mg	0	0
			5	5		
6	B	21	Total	Mg	0	0
			21	21		
6	C	73	Total	Mg	0	0
			73	73		
6	A	33	Total	Mg	0	0
			33	33		
6	N	92	Total	Mg	0	0
			92	92		
6	O	8	Total	Mg	0	0
			8	8		
6	L	17	Total	Mg	0	0
			17	17		
6	F	28	Total	Mg	0	0
			28	28		
6	M	65	Total	Mg	0	0
			65	65		

- Molecule 7 is RIFAPENTINE (three-letter code: RPT) (formula: C₄₇H₆₄N₄O₁₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	C	1	Total	C	N	O	0	0
			63	47	4	12		
7	M	1	Total	C	N	O	0	0
			63	47	4	12		

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

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

- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	239	Total	O	0	0
			239	239		
9	B	258	Total	O	0	0
			258	258		
9	C	979	Total	O	0	0
			979	979		
9	D	1252	Total	O	0	0
			1252	1252		
9	E	117	Total	O	0	0
			117	117		

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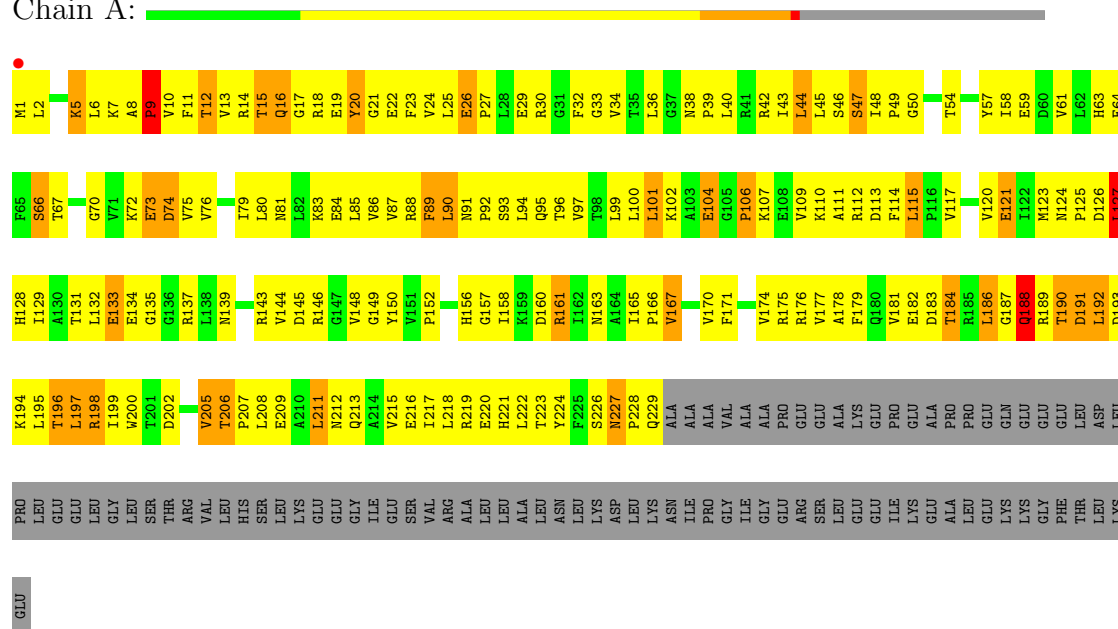
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	F	420	Total 420	O 420	0	0
9	K	183	Total 183	O 183	0	0
9	L	219	Total 219	O 219	0	0
9	M	998	Total 998	O 998	0	0
9	N	1265	Total 1265	O 1265	0	0
9	O	108	Total 108	O 108	0	0
9	P	361	Total 361	O 361	0	0

3 Residue-property plots

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

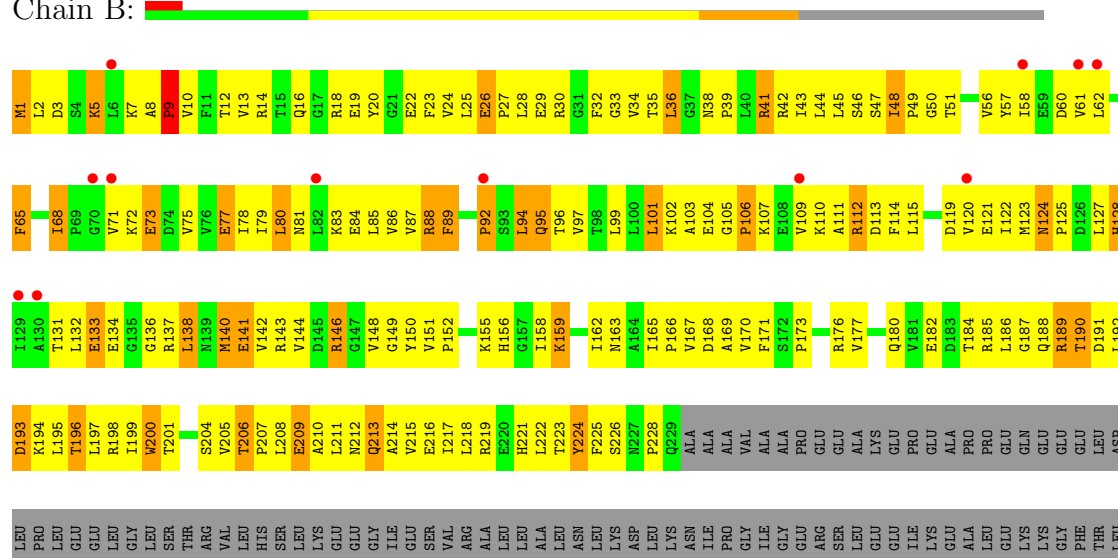
- Molecule 1: DNA-directed RNA polymerase alpha chain

Chain A:



- Molecule 1: DNA-directed RNA polymerase alpha chain

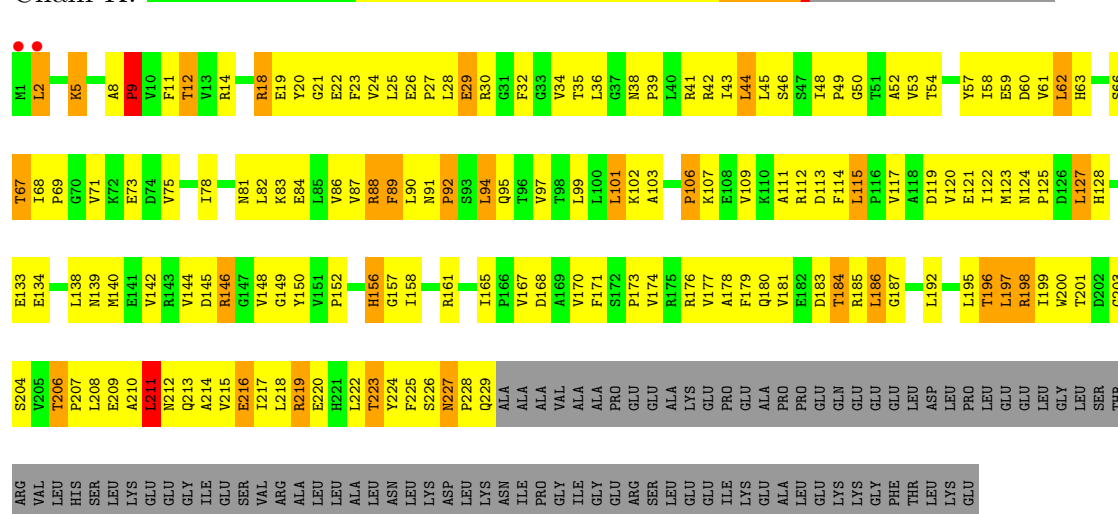
Chain B:



LYS
GLU

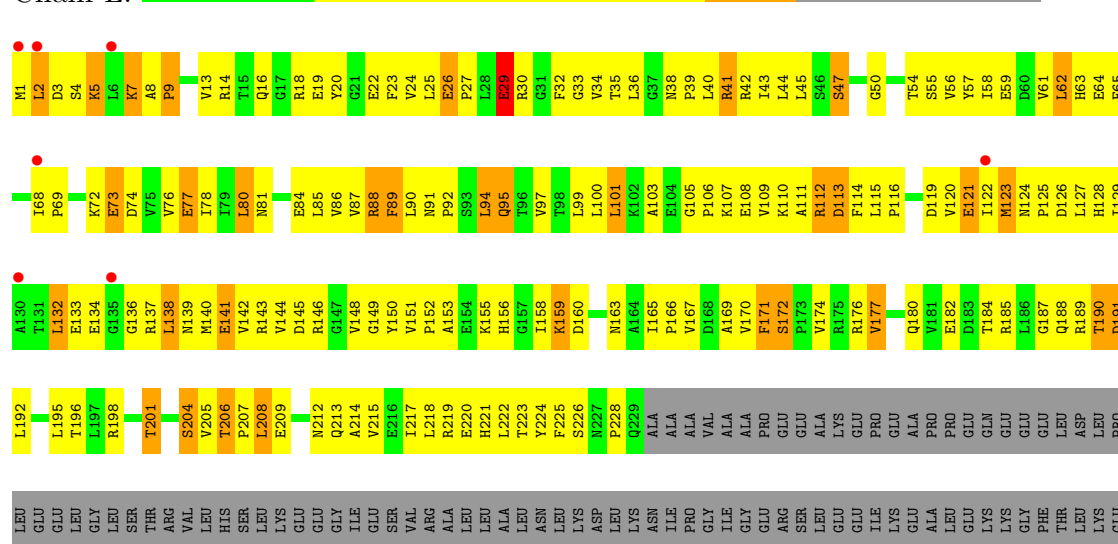
• Molecule 1: DNA-directed RNA polymerase alpha chain

Chain K:



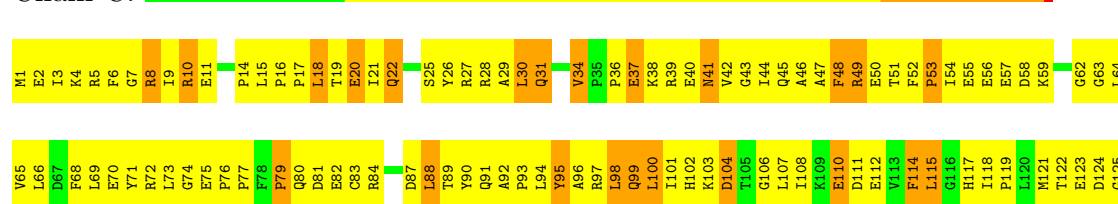
• Molecule 1: DNA-directed RNA polymerase alpha chain

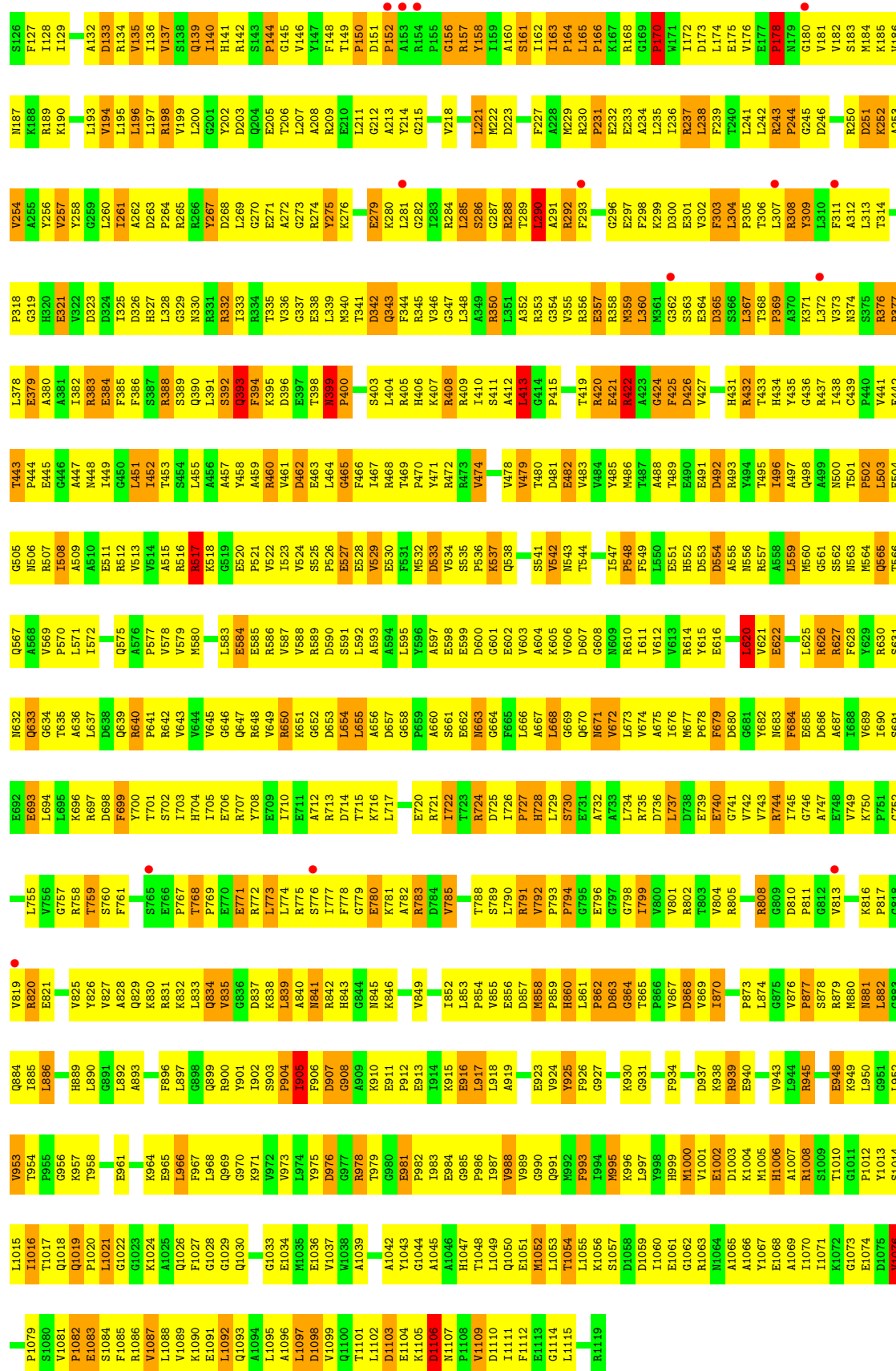
Chain L:



• Molecule 2: DNA-directed RNA polymerase beta chain

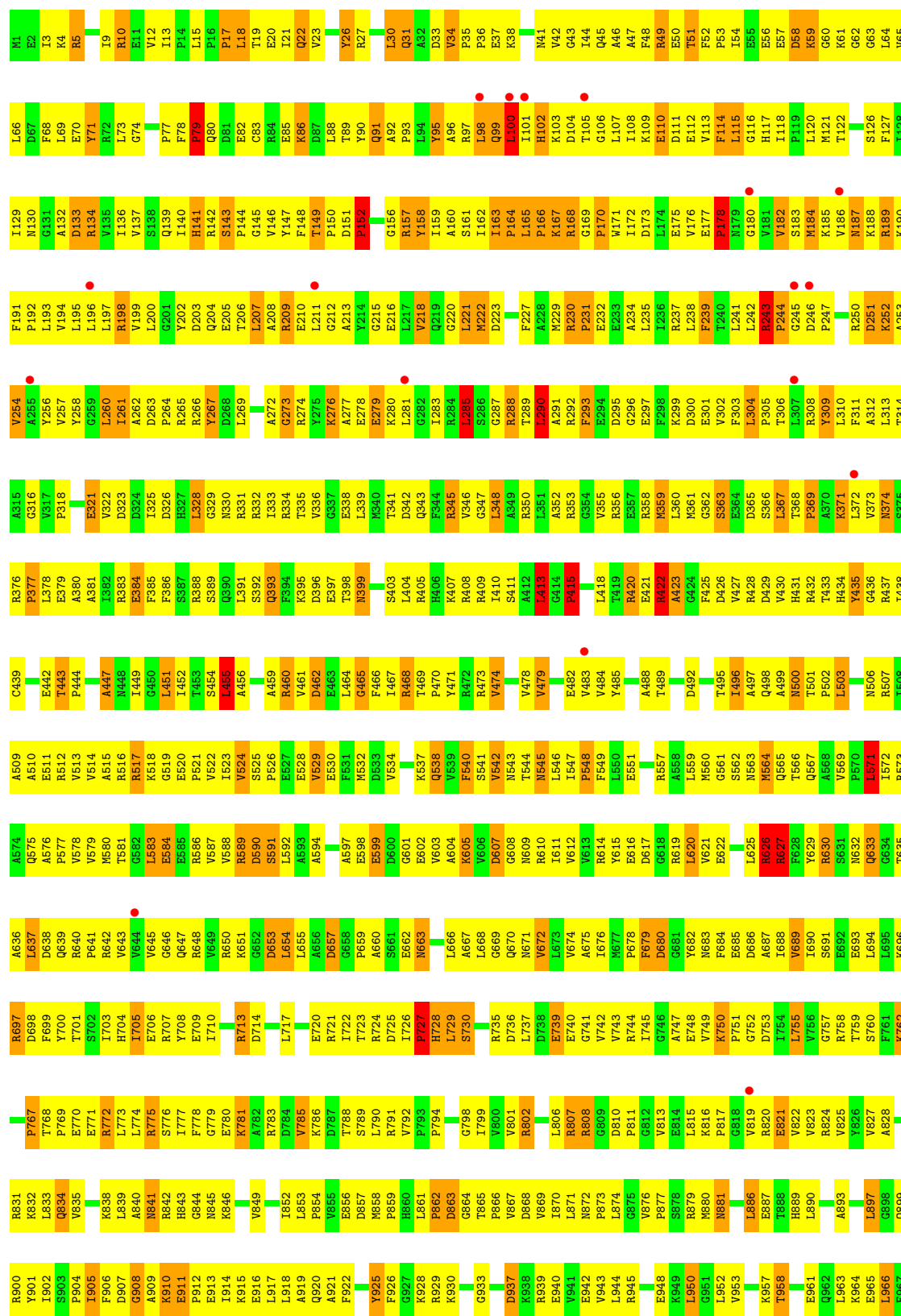
Chain C:

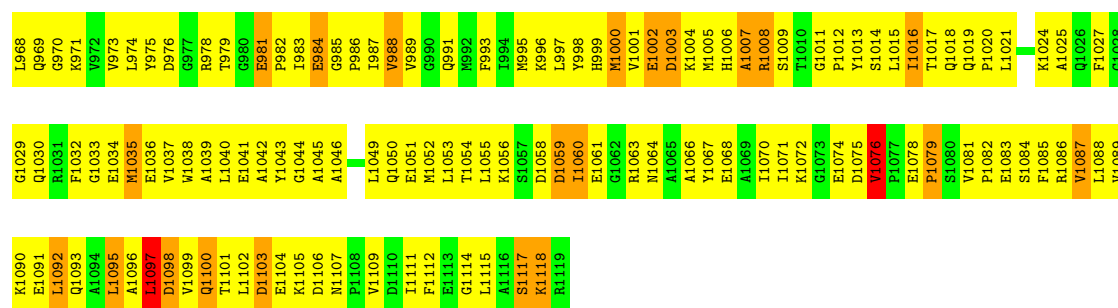




• Molecule 2: DNA-directed RNA polymerase beta chain

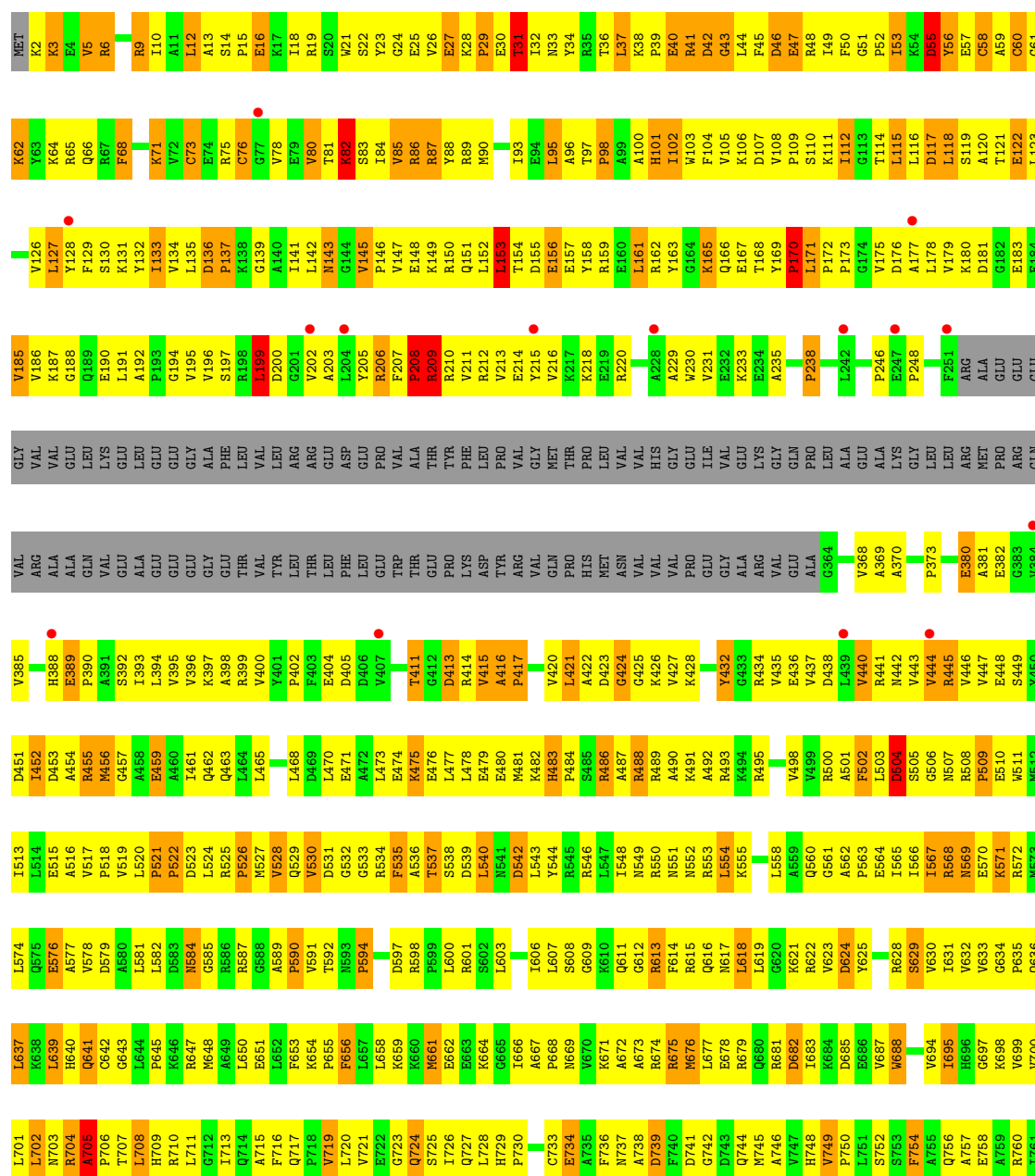
Chain M:

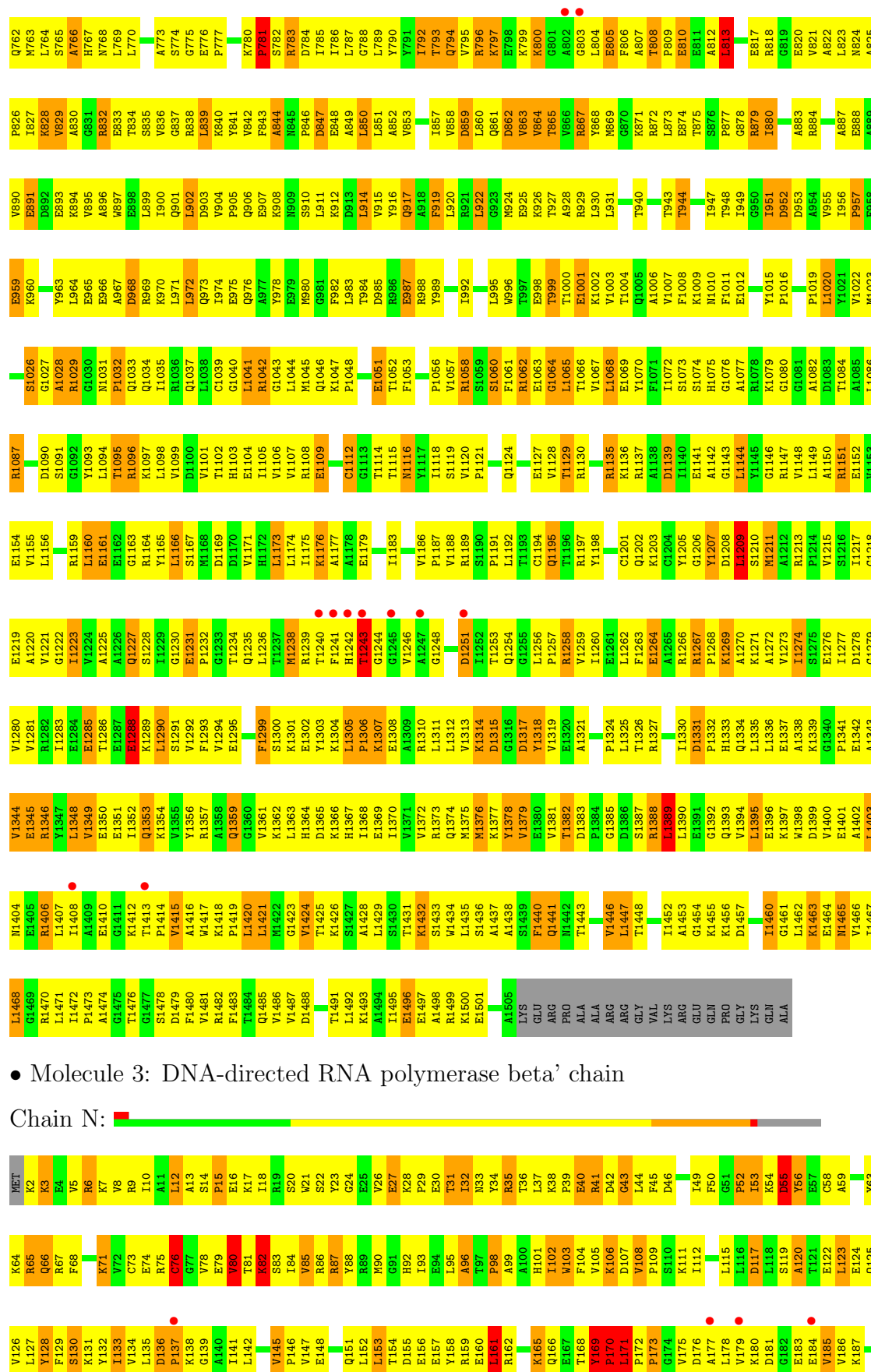




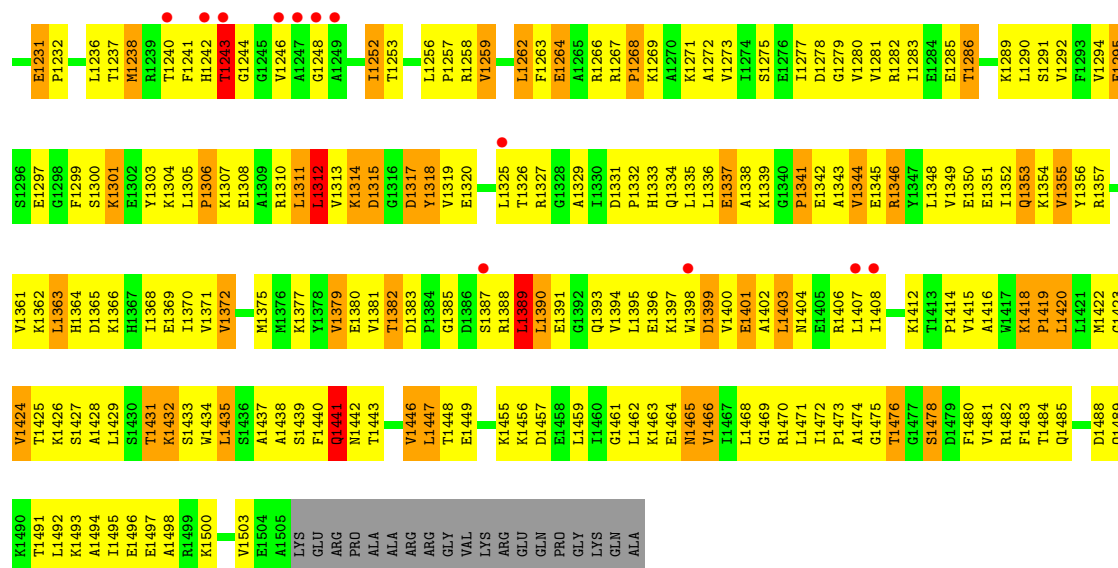
• Molecule 3: DNA-directed RNA polymerase beta' chain

Chain D:



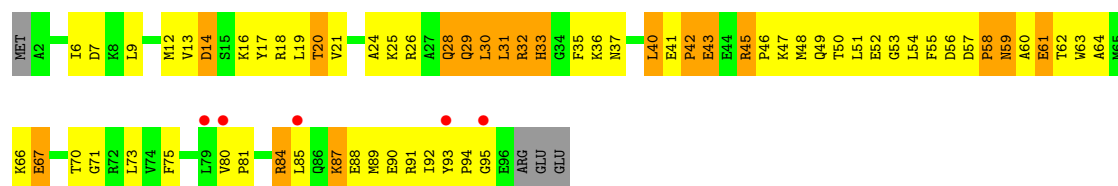


E1161	L1098	P1032	A967	E998	E833	S771	R704	G643	A577	L514	T452	P390	GLU	E190
R1164	V1099	Q1033	D968	L899	T834	P772	A705	L644	V578	E515	D453	A391	LEU	L191
Y1165	D1100	Q1034	R969	I900	S835	A773	P706	P645	D579	A516	A454	S392	GLU	A192
L1166	V1101	I1035	K970	Q901	V836	S774	T707	R646	A580	V517	R455	I393	GLU	P193
S1167	T1102	R1036	L972	L902	G837	G775	L708	R647	L581	P518	M456	L394	GLY	V195
M1168	H1103	Q1037	L971	D903	R838	E776	H709	M648	L582	V519		V395	GLY	V196
D1169	E1104	L1038	Q973	V904	F843	P777	R710		D583	L520	E459	V396	PHE	V197
P1170	T1105	C1039	I974	P905	A844	L778	L711	E651	N884	P521	A460	K397	LEU	S197
V1171	V1106	G1040	E975	Q906	E975			L652	G885	P522	I461	K398	VAL	R198
H1172	L1107	L1041	A977	E907	D847	P781	Q714	P653	R586	D523	Q462	R399	TYR	R199
L1173	R1108	L1042	A715	S910	E848	S782	A716	K654	R587	L524	Q463	V400	LEU	D200
L1174	A1109	G1043	G1044	I911	A849	R783	F716	P655	G588	R525	L464	Y401	ARG	G201
I1175	A1110	L1044	E979	K912	L850	R784	Q717	P656	A589	P526	L465	Y402	GLU	V202
	D1111	H1045	H980	K912	L851	L785	F718	L657	P590	M527	K466	F403	ASP	A203
K1176	G1112	Q1046	G981	D913	A852	L786	V719	L658	V591	V528	E467	E404	GLU	L204
A1177	G1113	L1047	L914	L914	V853	L787	L720	K659	T592	Q529	L468		PRO	Y205
L1178	T1114	P1048	L983	V915	V853	G788	G788	G660	N593	V530	D469		VAL	R206
E1179	T1115	S1049	T984	V916	A854	L789	E722	M661	P594	E407	L470	E408	ALA	F207
	N1116	G1050	D985		H855	V790	G723	E662		G533	E471		THR	P208
E1182	Y1117	E1051	R986	F919	G856	V791		E663	R598	R534	E474	T411	PRO	R209
I1183	T1118	L920	L920	I920	L857	L792	I726	K664		F535		G412	LYS	R210
Q1184	S1119	F1053	R988	R921	V858	T793	Q727	G665	R601	A536	K475	D413	PHE	V211
E1185	Y989	L922	V989	L922	D859	Q794	L728	T666	S602	T537	E476	R414	TYR	R212
P1187	R923	G923	L860	G923	A667	V795	H729	L603	L603	S538	L477	V415	VAL	V213
V1188	K924	K924	Q861	K924	P668	R796	P730	T604	T604	D539	L478	A416	GLY	E214
	T992	T992	D862	D862	M669	K797	L731	D605	D605	L540	E479	P417	GLN	Y215
	L993	L993	V863	V863	V670	L606	L732	L606	L606	M541	E480	G418	PRO	Y216
S1190	F1061	L994	V864	A928	K671	K799	C733	K671	L607	D542	M481	D419	PRO	R217
P1191	R1062	E734	T865	L995	A672	R800	C733	A672	S608	L543		V420	MET	R218
L1192	E1063	V996	V866	L931	G801	A735	A735	A673	G609	R546	H483	L421	ASN	R220
T1193	G1064	T997	R867	D939	R674	F736	F736	K610	K610	L547	P484	A422	VAL	R221
C1194	L1065	E998	V868	A933	R675	N737	A738	R676		I548	S485	D423	HIS	L223
Q1195	T1066	T999	M869		M676	K737		L677	Q616	M549	R486	G424	VAL	K224
R1197	V1087	T1000	K871	Y937	E805	D739		L677	Q616	R550	A487	G425	GLU	L225
L1198	L1134	E1001	R872	F941	F806		D743	R679	N617	R550	R488	K426	ILE	A229
	R1135	K1002	L873	S942	A807	T808	Q744	K680	L619	N551	R489	V427	GLY	V230
	K1136	V1003	E874	T943	P809	P809	M745	R681	G620		K491	S429	ALA	V231
	R1137	T1004	T875	T943	E810			D682	K621		A492	D430	VAL	
	A1138	Q1005	S876	T944	E811		H748	T683	R622		R493	V431	VAL	L223
	D1139	A1006	S876	S945	A812		V749	K684	V623		K494	G432	PRO	K225
C1204	I1140	V1007	P877	G946	L812		P750	D685	D624		R495	G433	LEU	Y236
Y1205	E1141	G1076	G878	I947	L813		L751	D685	D624		L496	R434	ALA	K237
G1206	A1142	A1077	R879	T948	A814		S752	V687	G625		E497	V435	ALA	P238
Y1207	G1143	R1077	L880	T949			S753	V688	S626		V498	V435	GLU	
D1208	L1144	K1079	L881	G950			F754	D689	G627		V499	E436	ALA	P246
L1209	Y1145	E1012	P882	I951			A755	A690	S629		R500	V437	LYS	E247
S1210	G1146	A883	A883	D952			Q756	L691	V630		F501	L439	GLY	P248
M1211	R1147	T1084	R884	D953			A757	E692	I631		A502	V440	LEU	F251
A1212	V1148	A1085	I885	I885			E758	E693	V632		L503	R441	ARG	ARG
R1213	L1149	L1086	V886	A822			A759	V694	V633		D372	P373	MET	ALA
P1214	A1150	R1087	A887	L823			R760	V694	V633		D372	P373	ARG	ALA
V1215	R1151	D1083	P882	N824				V694	V633		D372	P373	ARG	ALA
S1216	E1152	D1090	E888	N824				V694	V633		D372	P373	ARG	ALA
I1217	V1153	M1023	A889	A825				V694	V633		D372	P373	ARG	ALA
E1154	E1154	K961	R890	P826				V694	V633		D372	P373	ARG	ALA
V1155	G1092	G1026	E891	I827				V694	V633		D372	P373	ARG	ALA
L1156	L1094	G1027	D892	K828				V694	V633		D372	P373	ARG	ALA
V1221	V1156	G1027	D892	K828				V694	V633		D372	P373	ARG	ALA
G1222	L1156	G1027	D892	K828				V694	V633		D372	P373	ARG	ALA
I1223	R1159	R1095	A896	A830				V694	V633		D372	P373	ARG	ALA
V1224	L1160	G1030	E965	R832				V694	V633		D372	P373	ARG	ALA



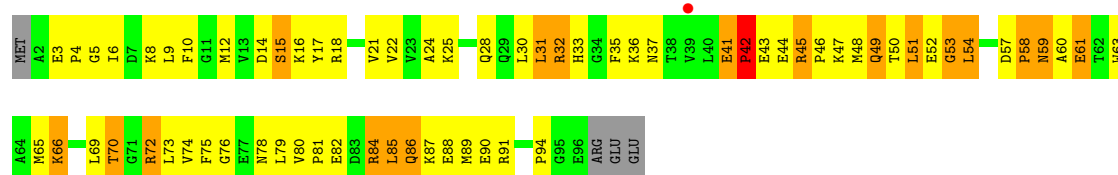
- Molecule 4: RNA polymerase omega chain

Chain E:



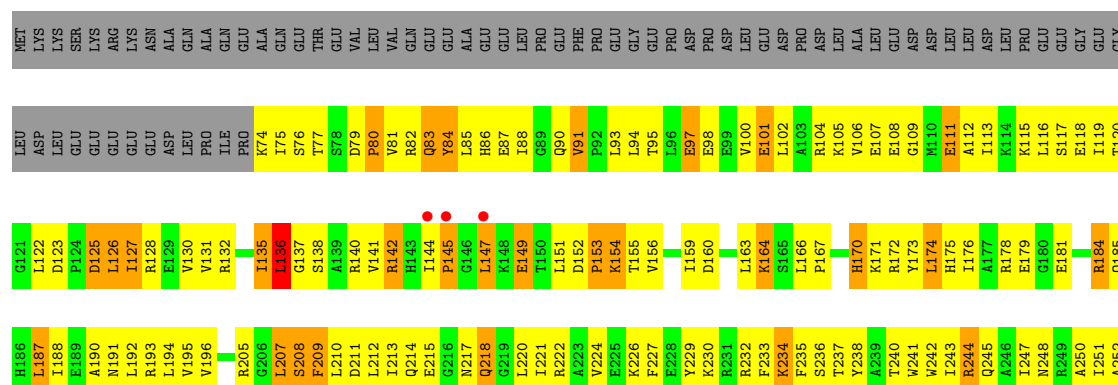
- Molecule 4: RNA polymerase omega chain

Chain 0:



- Molecule 5: RNA polymerase sigma factor rpoD

Chain F:



4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	239.50Å 239.50Å 253.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.50 24.85 – 2.50	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.50) 92.6 (24.85-2.50)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.13 (at 2.50Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.230 , 0.267 0.228 , 0.264	Depositor DCC
R_{free} test set	29710 reflections (6.10%)	DCC
Wilson B-factor (Å ²)	47.8	Xtriage
Anisotropy	0.214	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 81.1	EDS
Estimated twinning fraction	0.499 for -h,-k,l 0.076 for h,-h-k,-l 0.076 for -k,-h,-l	Xtriage
L-test for twinning	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.23$	Xtriage
Outliers	0 of 517107 reflections	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	60572	wwPDB-VP
Average B, all atoms (Å ²)	71.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.14% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: MG, ZN, RPT

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	0.81	1/1838 (0.1%)	0.88	4/2498 (0.2%)
1	B	0.74	0/1838	0.81	2/2498 (0.1%)
1	K	0.75	0/1838	0.86	3/2498 (0.1%)
1	L	0.73	1/1838 (0.1%)	0.80	2/2498 (0.1%)
2	C	0.83	2/8997 (0.0%)	0.89	7/12164 (0.1%)
2	M	0.81	0/8997	0.88	8/12164 (0.1%)
3	D	0.84	0/10975	0.94	20/14836 (0.1%)
3	N	0.82	0/10975	0.92	17/14836 (0.1%)
4	E	0.84	0/783	0.94	0/1054
4	O	0.82	0/783	0.96	2/1054 (0.2%)
5	F	0.74	0/2812	0.82	4/3781 (0.1%)
5	P	0.71	0/2812	0.80	1/3781 (0.0%)
All	All	0.81	4/54486 (0.0%)	0.89	70/73662 (0.1%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	48	ILE	C-N	6.06	1.45	1.34
1	L	172	SER	N-CA	-5.43	1.35	1.46
2	C	792	VAL	CB-CG1	-5.28	1.41	1.52
2	C	393	GLN	CD-OE1	5.25	1.35	1.24

All (70) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1389	LEU	CA-CB-CG	8.13	133.99	115.30
1	K	211	LEU	CA-CB-CG	8.11	133.95	115.30
1	B	138	LEU	CA-CB-CG	7.70	133.00	115.30
1	A	192	LEU	CA-CB-CG	7.60	132.79	115.30
3	D	199	LEU	CA-CB-CG	-7.59	97.84	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	243	ARG	C-N-CD	-7.50	104.10	120.60
5	F	354	LEU	CA-CB-CG	7.15	131.75	115.30
3	N	705	ALA	C-N-CD	7.06	143.23	128.40
4	O	31	LEU	CA-CB-CG	7.06	131.53	115.30
3	D	1395	LEU	CA-CB-CG	6.81	130.96	115.30
1	A	90	LEU	CA-CB-CG	-6.79	99.68	115.30
3	N	199	LEU	CA-CB-CG	-6.78	99.71	115.30
3	N	1389	LEU	CA-CB-CG	6.77	130.87	115.30
2	M	571	LEU	CA-CB-CG	6.55	130.37	115.30
2	M	165	LEU	C-N-CD	-6.53	106.22	120.60
3	N	1312	LEU	CA-CB-CG	6.47	130.17	115.30
3	D	80	VAL	C-N-CA	6.43	137.77	121.70
5	P	136	LEU	CA-CB-CG	6.33	129.87	115.30
3	D	705	ALA	C-N-CD	6.30	141.63	128.40
1	K	115	LEU	CA-CB-CG	6.14	129.42	115.30
3	N	76	CYS	CA-CB-SG	6.09	124.96	114.00
3	D	73	CYS	CA-CB-SG	6.05	124.89	114.00
3	D	567	ILE	CG1-CB-CG2	-6.02	98.16	111.40
3	N	80	VAL	C-N-CA	5.96	136.59	121.70
3	N	82	LYS	C-N-CA	-5.91	106.93	121.70
2	C	620	LEU	CA-CB-CG	5.91	128.89	115.30
2	C	88	LEU	CA-CB-CG	5.89	128.85	115.30
3	N	209	ARG	N-CA-C	5.88	126.89	111.00
1	B	36	LEU	CA-CB-CG	5.79	128.60	115.30
3	N	1209	LEU	N-CA-C	-5.76	95.43	111.00
3	N	171	LEU	CA-CB-CG	5.76	128.55	115.30
1	K	2	LEU	CA-CB-CG	5.73	128.47	115.30
3	D	153	LEU	CA-CB-CG	5.72	128.45	115.30
3	D	1209	LEU	N-CA-C	-5.68	95.66	111.00
3	D	637	LEU	CA-CB-CG	5.65	128.30	115.30
1	A	127	LEU	CA-CB-CG	5.64	128.27	115.30
3	D	80	VAL	CA-C-N	-5.56	104.96	117.20
3	D	238	PRO	N-CA-CB	5.55	109.97	103.30
3	N	380	GLU	N-CA-C	-5.55	96.01	111.00
3	D	60	CYS	CA-CB-SG	5.53	123.95	114.00
2	M	100	LEU	CA-CB-CG	5.50	127.94	115.30
5	F	136	LEU	CA-CB-CG	5.49	127.92	115.30
3	D	208	PRO	CA-N-CD	-5.46	103.86	111.50
3	D	380	GLU	N-CA-C	-5.41	96.39	111.00
3	D	209	ARG	N-CA-C	5.41	125.59	111.00
3	N	80	VAL	CA-C-N	-5.38	105.36	117.20
2	M	728	HIS	N-CA-C	5.36	125.48	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	243	ARG	C-N-CD	-5.35	108.83	120.60
3	D	813	LEU	CA-CB-CG	5.33	127.57	115.30
1	L	132	LEU	CA-CB-CG	5.31	127.52	115.30
5	F	361	LEU	CA-CB-CG	5.30	127.48	115.30
1	L	171	PHE	C-N-CA	-5.27	108.53	121.70
3	D	248	PRO	N-CA-CB	5.25	109.60	103.30
3	D	708	LEU	CA-CB-CG	-5.25	103.23	115.30
3	D	1468	LEU	CA-CB-CG	5.22	127.31	115.30
2	M	207	LEU	CA-CB-CG	5.21	127.28	115.30
3	N	554	LEU	CA-CB-CG	5.20	127.27	115.30
2	C	165	LEU	C-N-CD	-5.20	109.16	120.60
2	C	737	LEU	CA-CB-CG	5.17	127.20	115.30
5	F	91	VAL	C-N-CD	5.12	139.15	128.40
4	O	49	GLN	N-CA-C	5.12	124.81	111.00
3	N	208	PRO	CA-N-CD	-5.11	104.34	111.50
2	C	728	HIS	N-CA-C	5.11	124.79	111.00
3	N	238	PRO	N-CA-CB	5.11	109.43	103.30
1	A	115	LEU	CA-CB-CG	5.08	127.00	115.30
2	M	58	ASP	C-N-CA	5.08	134.39	121.70
2	M	285	LEU	CA-CB-CG	5.08	126.98	115.30
2	C	917	LEU	CA-CB-CG	-5.04	103.70	115.30
3	N	248	PRO	N-CA-CB	5.04	109.35	103.30
3	N	637	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	232	0
1	B	1806	0	1861	216	0
1	K	1806	0	1861	173	0
1	L	1806	0	1861	186	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	C	8829	0	8933	1215	0
2	M	8829	0	8933	1174	0
3	D	10797	0	10873	1490	0
3	N	10797	0	10873	1288	0
4	E	769	0	775	89	0
4	O	769	0	775	95	0
5	F	2771	0	2844	346	0
5	P	2771	0	2844	352	0
6	A	33	0	0	0	0
6	B	21	0	0	0	0
6	C	73	0	0	0	0
6	D	106	0	0	0	0
6	E	5	0	0	0	0
6	F	28	0	0	0	0
6	K	19	0	0	0	0
6	L	17	0	0	0	0
6	M	65	0	0	0	0
6	N	92	0	0	0	0
6	O	8	0	0	0	0
6	P	20	0	0	0	0
7	C	63	0	62	6	0
7	M	63	0	62	7	0
8	D	2	0	0	0	0
8	N	2	0	0	0	0
9	A	239	0	0	50	0
9	B	258	0	0	46	0
9	C	979	0	0	224	0
9	D	1252	0	0	277	0
9	E	117	0	0	28	0
9	F	420	0	0	94	0
9	K	183	0	0	39	0
9	L	219	0	0	46	0
9	M	998	0	0	249	0
9	N	1265	0	0	250	0
9	O	108	0	0	26	0
9	P	361	0	0	78	0
All	All	60572	0	54418	6470	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 60.

All (6470) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:95:GLN:HA	1:A:146:ARG:HH12	1.07	1.11
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.13	1.11
3:D:1087:ARG:HG2	3:D:1234:THR:HA	1.27	1.07
1:B:152:PRO:HD2	1:B:155:LYS:HD3	1.36	1.05
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.16	1.05
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.41	1.03
1:B:86:VAL:HG12	1:B:124:ASN:HD22	1.24	1.02
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.37	1.02
2:C:775:ARG:HH21	2:C:782:ALA:HB1	1.24	1.02
5:F:94:LEU:HD22	5:F:97:GLU:HG2	1.39	1.01
3:N:783:ARG:HH21	3:N:1029:ARG:HD3	1.26	1.01
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.42	1.00
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.42	1.00
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.40	1.00
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.43	1.00
3:N:210:ARG:HH11	3:N:398:ALA:HB3	1.26	0.99
3:N:1144:LEU:HD12	3:N:1171:VAL:HG13	1.43	0.99
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.45	0.99
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.28	0.98
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.45	0.98
2:C:724:ARG:HG3	2:C:741:GLY:H	1.27	0.97
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.45	0.97
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.45	0.97
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.26	0.97
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.47	0.97
1:L:88:ARG:HH11	1:L:88:ARG:HB3	1.29	0.96
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.45	0.96
2:M:905:ILE:HD12	2:M:905:ILE:H	1.31	0.95
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.48	0.95
2:M:404:LEU:HA	2:M:407:LYS:HD3	1.47	0.95
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.49	0.95
2:C:846:LYS:HD3	3:D:741:ASP:HB2	1.47	0.94
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.46	0.94
2:C:413:LEU:HD21	2:C:448:ASN:HD21	1.31	0.94
3:D:119:SER:HB2	3:D:123:LEU:H	1.32	0.94
3:D:1095:THR:HG23	3:D:1230:GLY:HA3	1.46	0.94
2:C:1114:GLY:H	2:C:1115:LEU:HD12	1.31	0.94
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.49	0.94
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.50	0.94
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.47	0.94
3:N:1210:SER:HA	9:N:9537:HOH:O	1.68	0.94
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.50	0.94
3:N:637:LEU:HD21	3:N:642:CYS:HA	1.50	0.94

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1310:ARG:HE	3:D:1327:ARG:HB3	1.33	0.94
2:M:1018:GLN:HE21	2:M:1060:ILE:HD11	1.28	0.94
2:C:689:VAL:HB	2:C:870:ILE:HG13	1.50	0.94
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.32	0.93
2:C:329:GLY:HA3	2:C:489:THR:HG23	1.47	0.93
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.48	0.93
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.51	0.93
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.48	0.93
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.51	0.92
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.52	0.92
3:N:1314:LYS:HZ2	3:N:1314:LYS:H	1.17	0.92
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.50	0.92
2:C:54:ILE:HD11	2:C:356:ARG:HG2	1.52	0.92
3:N:1101:VAL:HG21	3:N:1424:VAL:HG22	1.49	0.91
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.49	0.91
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.51	0.91
3:N:572:ARG:HH22	5:P:83:GLN:HG3	1.36	0.91
2:C:328:LEU:HD13	2:C:433:THR:HB	1.51	0.90
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.53	0.90
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.36	0.90
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.35	0.90
2:M:791:ARG:HB3	9:M:9759:HOH:O	1.71	0.90
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.53	0.90
4:E:67:GLU:HB2	4:E:73:LEU:HD11	1.52	0.90
2:M:289:THR:HG22	2:M:290:LEU:HD23	1.54	0.90
2:M:979:THR:HG23	2:M:981:GLU:H	1.37	0.90
3:D:41:ARG:HD3	3:D:42:ASP:H	1.37	0.89
1:L:57:TYR:HB3	1:L:141:GLU:HG3	1.53	0.89
2:C:93:PRO:HA	9:C:9729:HOH:O	1.71	0.89
3:D:1326:THR:HA	9:D:9756:HOH:O	1.71	0.89
3:D:871:LYS:HE3	3:D:873:LEU:HD21	1.54	0.89
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.55	0.89
2:C:211:LEU:HD11	2:C:308:ARG:HB2	1.54	0.88
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.55	0.88
3:D:1096:ARG:HH11	3:D:1096:ARG:HB2	1.36	0.88
2:M:964:LYS:O	2:M:968:LEU:HG	1.72	0.88
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.54	0.88
2:C:860:HIS:HB2	9:C:9519:HOH:O	1.72	0.88
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.54	0.88
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.56	0.88
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.55	0.88
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.56	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:671:ASN:ND2	2:C:671:ASN:H	1.70	0.88
2:C:979:THR:HG23	2:C:981:GLU:H	1.39	0.88
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.52	0.88
3:D:572:ARG:HH21	5:F:83:GLN:HE21	1.21	0.88
3:D:973:GLN:HA	3:D:976:GLN:HE21	1.34	0.88
3:N:978:TYR:HA	9:N:9888:HOH:O	1.72	0.87
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.56	0.87
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.55	0.87
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.54	0.87
3:N:566:ILE:HD11	5:P:192:LEU:HD21	1.54	0.87
2:C:945:ARG:HH11	2:C:945:ARG:HB3	1.37	0.87
2:M:144:PRO:HA	2:M:163:ILE:HG12	1.57	0.87
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.90	0.87
2:C:724:ARG:HH12	2:C:734:LEU:HD23	1.37	0.87
2:C:671:ASN:HD22	2:C:671:ASN:N	1.71	0.86
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.57	0.86
1:K:186:LEU:HB2	1:K:192:LEU:HD11	1.55	0.86
1:A:95:GLN:HA	1:A:146:ARG:NH1	1.88	0.86
2:C:66:LEU:HD22	2:C:372:LEU:HD23	1.57	0.86
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.58	0.86
2:C:671:ASN:H	2:C:671:ASN:HD22	0.91	0.86
2:C:1060:ILE:HD12	2:C:1063:ARG:HH12	1.38	0.86
3:D:57:GLU:HG3	3:D:64:LYS:HG2	1.57	0.86
2:M:165:LEU:O	2:M:265:ARG:HB2	1.76	0.86
1:L:112:ARG:HB3	1:L:112:ARG:HH11	1.38	0.86
2:M:129:ILE:HD13	2:M:134:ARG:HB2	1.55	0.85
3:N:119:SER:HB2	3:N:123:LEU:H	1.39	0.85
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.55	0.85
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.58	0.85
1:A:67:THR:HA	9:A:9598:HOH:O	1.75	0.85
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.58	0.85
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.57	0.85
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.58	0.85
3:D:560:GLN:HG2	5:F:218:GLN:HE22	1.39	0.85
2:M:134:ARG:HH21	2:M:393:GLN:HA	1.41	0.85
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.59	0.85
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.41	0.85
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.59	0.84
4:E:85:LEU:HA	9:E:9594:HOH:O	1.77	0.84
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.59	0.84
5:F:101:GLU:HA	9:F:9749:HOH:O	1.76	0.84
5:P:358:LEU:HD13	5:P:370:LYS:HG3	1.57	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1380:GLU:HB3	3:N:1418:LYS:HG3	1.59	0.84
2:C:1005:MET:HB3	3:D:724:GLN:HE22	1.43	0.84
3:D:1223:ILE:HD12	3:D:1223:ILE:H	1.42	0.84
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	1.92	0.84
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.58	0.84
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.58	0.84
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.43	0.84
3:N:565:ILE:H	3:N:565:ILE:HD12	1.41	0.84
2:M:1038:TRP:HE1	3:N:1463:LYS:HZ1	1.24	0.84
2:M:589:ARG:HB2	2:M:589:ARG:HH11	1.42	0.83
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.58	0.83
3:D:86:ARG:O	3:D:522:PRO:HD2	1.77	0.83
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.59	0.83
3:N:168:THR:HG22	3:N:170:PRO:HD2	1.61	0.83
2:C:656:ALA:HB3	9:C:2223:HOH:O	1.79	0.83
3:N:785:ILE:HD12	3:N:785:ILE:H	1.42	0.83
2:C:362:GLY:HA3	2:C:367:LEU:HD23	1.60	0.83
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.59	0.83
2:C:524:VAL:HG13	2:C:528:GLU:HB2	1.61	0.83
1:A:178:ALA:HB3	1:A:198:ARG:HG3	1.59	0.82
3:D:513:ILE:HG23	9:D:9966:HOH:O	1.77	0.82
5:F:191:ASN:HA	5:F:194:LEU:HD23	1.59	0.82
2:M:115:LEU:HD22	2:M:373:VAL:HG11	1.60	0.82
2:C:943:VAL:HG23	2:C:985:GLY:H	1.43	0.82
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.79	0.82
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.60	0.82
3:D:209:ARG:HD2	3:D:210:ARG:HG2	1.62	0.82
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.61	0.82
3:N:704:ARG:HG3	3:N:736:PHE:HB3	1.60	0.82
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.62	0.82
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.62	0.82
2:M:51:THR:HG21	9:M:2064:HOH:O	1.80	0.82
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.59	0.82
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.61	0.82
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.43	0.82
3:N:796:ARG:HH11	3:N:861:GLN:HB2	1.44	0.82
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.60	0.82
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.62	0.82
5:F:130:VAL:HG21	5:F:159:ILE:HG21	1.59	0.82
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.62	0.81
3:N:165:LYS:HB3	3:N:395:VAL:HG11	1.60	0.81
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.62	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:699:VAL:H	3:D:756:GLN:NE2	1.77	0.81
3:D:1465:ASN:HD21	3:D:1470:ARG:HH11	1.25	0.81
1:A:133:GLU:HG2	1:A:134:GLU:H	1.46	0.81
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.62	0.81
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.62	0.81
3:D:671:LYS:HG3	5:F:422:LEU:HA	1.60	0.81
2:M:436:GLY:HA2	2:M:538:GLN:O	1.78	0.81
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.62	0.81
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.60	0.81
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.60	0.81
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.61	0.81
2:M:707:ARG:HH12	2:M:709:GLU:HB2	1.44	0.81
3:D:73:CYS:HB3	3:D:76:CYS:O	1.81	0.81
2:C:949:LYS:HD2	3:D:796:ARG:HH21	1.44	0.81
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.62	0.81
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.46	0.81
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.62	0.81
2:C:244:PRO:HD2	2:C:245:GLY:H	1.46	0.81
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.61	0.81
2:C:10:ARG:HH11	2:C:10:ARG:HA	1.45	0.80
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.61	0.80
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.63	0.80
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.62	0.80
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.62	0.80
3:D:152:LEU:H	3:D:152:LEU:HD23	1.44	0.80
2:M:227:PHE:HA	2:M:230:ARG:HE	1.46	0.80
2:M:890:LEU:HD12	2:M:914:ILE:HD13	1.61	0.80
1:L:185:ARG:HG3	1:L:190:THR:HG22	1.62	0.80
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.81	0.80
3:D:1359:GLN:HB3	9:D:9531:HOH:O	1.81	0.80
3:D:720:LEU:HD12	3:D:720:LEU:H	1.47	0.80
3:D:487:ALA:HB3	9:D:9629:HOH:O	1.81	0.80
3:D:584:ASN:HD22	3:D:585:GLY:N	1.80	0.80
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.64	0.80
3:D:550:ARG:HA	9:D:9572:HOH:O	1.80	0.80
2:M:728:HIS:HB3	2:M:729:LEU:HD12	1.64	0.80
1:A:206:THR:HG22	1:A:209:GLU:HG3	1.63	0.80
1:K:24:VAL:HG22	1:K:196:THR:HB	1.64	0.80
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.62	0.80
3:D:601:ARG:HD2	5:F:328:PHE:HE1	1.46	0.80
3:D:153:LEU:HD12	3:D:154:THR:N	1.97	0.80
5:P:94:LEU:HB2	5:P:98:GLU:HG3	1.64	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:86:ARG:O	3:N:522:PRO:HD2	1.81	0.79
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.64	0.79
3:D:397:LYS:HG2	9:D:9991:HOH:O	1.82	0.79
1:L:214:ALA:HA	1:L:217:ILE:HD12	1.64	0.79
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.65	0.79
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.64	0.79
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.63	0.79
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.17	0.79
3:D:704:ARG:HE	3:D:705:ALA:H	1.28	0.79
2:C:773:LEU:HB2	5:F:373:LYS:HB3	1.64	0.79
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.47	0.79
3:D:41:ARG:HH11	3:D:42:ASP:HB2	1.47	0.79
3:N:1160:LEU:HD11	3:N:1174:LEU:HD21	1.64	0.79
1:K:227:ASN:HD22	1:K:227:ASN:H	1.30	0.79
2:M:676:ILE:HD12	2:M:871:LEU:HB2	1.63	0.79
2:C:83:CYS:HA	2:C:88:LEU:HB3	1.64	0.79
3:D:697:GLY:HA2	9:D:2528:HOH:O	1.83	0.79
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.65	0.78
2:M:333:ILE:HB	9:M:9987:HOH:O	1.84	0.78
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.47	0.78
3:D:400:VAL:HG21	3:D:441:ARG:HH11	1.49	0.78
3:D:9:ARG:HH12	3:D:506:GLY:HA2	1.48	0.78
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.64	0.78
3:N:628:ARG:HD3	3:N:744:GLN:NE2	1.97	0.78
2:M:326:ASP:HA	2:M:331:ARG:HD3	1.64	0.78
2:C:690:ILE:HG23	2:C:852:ILE:HG23	1.64	0.78
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.18	0.78
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.65	0.78
3:D:1045:MET:HG2	3:D:1073:SER:HA	1.65	0.78
5:P:268:ILE:HA	5:P:271:LEU:HD12	1.65	0.78
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.66	0.78
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.49	0.78
2:C:462:ASP:HB3	2:C:468:ARG:HD2	1.66	0.78
3:D:1258:ARG:CZ	3:D:1262:LEU:HD11	2.13	0.78
1:L:13:VAL:HG11	1:L:208:LEU:HD11	1.65	0.78
2:C:455:LEU:HD12	2:C:459:ALA:HB3	1.66	0.78
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.65	0.78
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.84	0.78
2:M:250:ARG:HG2	2:M:253:ALA:HB3	1.66	0.78
2:M:707:ARG:HD2	2:M:824:ARG:HD3	1.65	0.78
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.65	0.78
2:M:724:ARG:HG3	2:M:741:GLY:H	1.49	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:123:MET:HG2	9:K:3485:HOH:O	1.82	0.78
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.64	0.78
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.66	0.77
2:M:833:LEU:HD11	2:M:849:VAL:HG21	1.65	0.77
2:M:879:ARG:HH12	3:N:1029:ARG:NH2	1.83	0.77
2:M:771:GLU:O	2:M:775:ARG:HG2	1.85	0.77
5:F:117:SER:HA	9:F:9599:HOH:O	1.84	0.77
2:C:41:ASN:H	2:C:41:ASN:HD22	1.29	0.77
1:A:198:ARG:HG2	9:A:9490:HOH:O	1.85	0.77
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.66	0.77
3:N:984:THR:HG22	3:N:987:GLU:HG3	1.66	0.77
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.66	0.77
3:N:53:ILE:HG23	3:N:54:LYS:H	1.48	0.77
1:A:133:GLU:HG2	1:A:134:GLU:N	2.00	0.77
3:N:35:ARG:HD2	3:N:36:THR:H	1.47	0.77
1:K:54:THR:CG2	1:K:158:ILE:HG13	2.15	0.77
2:C:405:ARG:HH12	2:C:563:ASN:ND2	1.83	0.77
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.50	0.77
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.66	0.77
1:A:126:ASP:HB2	9:A:9492:HOH:O	1.85	0.77
5:P:132:ARG:HH11	5:P:136:LEU:HD21	1.50	0.77
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.48	0.77
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.66	0.77
3:N:488:ARG:HB3	3:N:488:ARG:NH1	2.00	0.77
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.67	0.77
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.66	0.77
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.19	0.77
3:N:1277:ILE:HA	9:N:9881:HOH:O	1.84	0.77
3:D:1194:CYS:HB3	3:D:1373:ARG:NH2	1.99	0.77
5:F:411:HIS:HA	5:F:414:ARG:HG3	1.67	0.77
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.66	0.77
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.65	0.77
3:D:631:ILE:HG21	3:D:745:MET:HG3	1.66	0.77
3:D:1236:LEU:HD11	3:D:1356:TYR:HE1	1.49	0.77
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.50	0.77
3:N:67:ARG:HB2	5:P:375:LEU:HD11	1.66	0.76
3:D:1311:LEU:HA	9:D:9756:HOH:O	1.85	0.76
5:F:136:LEU:HD11	9:F:9565:HOH:O	1.84	0.76
2:C:903:SER:HA	9:C:2024:HOH:O	1.84	0.76
2:C:1098:ASP:HB2	3:D:21:TRP:HZ2	1.48	0.76
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.65	0.76
2:M:332:ARG:HD3	9:M:9675:HOH:O	1.86	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:206:THR:HG22	1:L:209:GLU:H	1.49	0.76
2:M:997:LEU:HG	9:M:9828:HOH:O	1.83	0.76
3:N:217:LYS:HA	9:N:2156:HOH:O	1.85	0.76
3:D:194:GLY:H	3:D:206:ARG:HA	1.50	0.76
3:D:133:ILE:HG23	3:D:456:MET:SD	2.26	0.76
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.67	0.76
1:K:178:ALA:HB3	1:K:198:ARG:HG3	1.66	0.76
1:L:205:VAL:HG23	9:L:3448:HOH:O	1.85	0.76
1:A:110:LYS:HG3	9:A:9494:HOH:O	1.86	0.76
5:P:131:VAL:HG12	5:P:181:GLU:HG3	1.68	0.76
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.66	0.76
3:N:1197:ARG:HG3	3:N:1198:TYR:H	1.49	0.76
5:F:75:ILE:HG22	9:F:9601:HOH:O	1.85	0.76
3:D:1175:ILE:O	3:D:1179:GLU:HG3	1.86	0.76
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.68	0.76
2:M:420:ARG:HD2	2:M:420:ARG:H	1.50	0.76
3:N:422:ALA:H	3:N:427:VAL:HG11	1.51	0.76
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.67	0.76
3:N:6:ARG:HH11	3:N:6:ARG:HB3	1.51	0.76
1:L:152:PRO:HD2	1:L:155:LYS:HG3	1.66	0.76
3:D:904:VAL:HG22	9:D:2047:HOH:O	1.84	0.76
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.66	0.76
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.68	0.76
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.65	0.75
5:F:261:PRO:O	5:F:264:MET:HG2	1.86	0.75
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.69	0.75
9:M:2201:HOH:O	4:O:31:LEU:HB2	1.86	0.75
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.68	0.75
3:D:956:ILE:HG12	3:D:1039:CYS:O	1.85	0.75
2:M:952:LEU:HD12	2:M:969:GLN:NE2	1.97	0.75
5:F:76:SER:O	5:F:80:PRO:HD2	1.86	0.75
2:M:396:ASP:HA	2:M:633:GLN:HE22	1.51	0.75
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.52	0.75
2:M:49:ARG:HA	9:M:9640:HOH:O	1.85	0.75
2:M:691:SER:HB2	2:M:858:MET:SD	2.27	0.75
3:N:192:ALA:O	3:N:195:VAL:HG23	1.85	0.75
5:F:93:LEU:HG	5:F:190:ALA:CB	2.16	0.75
2:C:157:ARG:HD2	2:C:314:THR:HG22	1.67	0.75
2:M:1097:LEU:H	2:M:1097:LEU:HD13	1.51	0.75
3:N:211:VAL:HG22	3:N:393:ILE:HG23	1.67	0.75
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.86	0.75
9:C:9697:HOH:O	4:E:28:GLN:HA	1.87	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:517:ARG:HE	2:M:522:VAL:HG11	1.50	0.75
3:D:422:ALA:H	3:D:427:VAL:HG11	1.52	0.75
2:M:598:GLU:O	2:M:651:LYS:HG3	1.87	0.75
5:F:120:THR:HB	9:F:9599:HOH:O	1.87	0.75
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.69	0.75
3:D:65:ARG:HG3	3:D:66:GLN:H	1.49	0.75
1:L:24:VAL:HG12	9:L:3467:HOH:O	1.86	0.75
3:D:478:LEU:HD13	3:D:1388:ARG:HH22	1.52	0.75
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.67	0.75
2:M:736:ASP:O	2:M:744:ARG:HG2	1.87	0.74
2:M:943:VAL:HG23	2:M:985:GLY:H	1.52	0.74
3:D:965:GLU:HG3	3:D:969:ARG:HH21	1.51	0.74
2:M:1038:TRP:HE1	3:N:1463:LYS:NZ	1.85	0.74
2:C:10:ARG:HA	2:C:10:ARG:NH1	2.03	0.74
3:D:890:VAL:HA	9:D:9911:HOH:O	1.87	0.74
3:N:468:LEU:HB3	9:N:9663:HOH:O	1.87	0.74
2:C:186:VAL:HG23	2:C:187:ASN:H	1.51	0.74
1:A:101:LEU:HG	1:A:114:PHE:HA	1.70	0.74
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.02	0.74
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.69	0.74
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.86	0.74
5:F:156:VAL:HA	5:F:159:ILE:HD12	1.68	0.74
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.69	0.74
2:C:1054:THR:HG23	2:C:1082:PRO:HG3	1.70	0.74
3:D:55:ASP:HA	3:D:82:LYS:HG3	1.67	0.74
2:M:1111:ILE:HG13	2:M:1112:PHE:H	1.53	0.74
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.52	0.74
5:F:248:ASN:HA	5:F:251:ILE:HD12	1.70	0.74
2:C:132:ALA:HB1	2:C:632:ASN:HD21	1.53	0.74
1:L:100:LEU:HB2	1:L:115:LEU:HD21	1.69	0.74
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.68	0.74
2:C:282:GLY:HA2	2:C:308:ARG:HH12	1.53	0.74
1:A:177:VAL:HG12	9:A:9593:HOH:O	1.88	0.74
3:N:1062:ARG:HG3	9:N:9910:HOH:O	1.87	0.74
2:C:144:PRO:HG2	2:C:265:ARG:HH12	1.52	0.74
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.70	0.74
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.88	0.74
2:C:768:THR:HB	2:C:771:GLU:HB3	1.70	0.74
2:C:72:ARG:HG2	9:C:9760:HOH:O	1.86	0.74
2:M:64:LEU:HA	9:M:9656:HOH:O	1.86	0.74
2:C:500:ASN:HD21	3:D:1067:VAL:HG23	1.52	0.74
5:P:92:PRO:HA	9:P:4361:HOH:O	1.87	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:163:LEU:HD22	5:F:174:LEU:HG	1.69	0.74
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.86	0.74
3:D:1087:ARG:HD3	3:D:1090:ASP:HB2	1.70	0.74
5:F:191:ASN:HB2	9:F:9537:HOH:O	1.87	0.74
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.70	0.74
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.53	0.74
2:M:786:LYS:HA	9:M:9505:HOH:O	1.87	0.74
5:P:142:ARG:HH11	5:P:142:ARG:HB3	1.53	0.74
1:B:20:TYR:HB3	9:B:9501:HOH:O	1.87	0.74
2:C:117:HIS:HA	9:C:9729:HOH:O	1.87	0.73
1:B:16:GLN:HB2	9:B:9501:HOH:O	1.89	0.73
2:C:96:ALA:HA	9:C:9760:HOH:O	1.88	0.73
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.68	0.73
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.68	0.73
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.70	0.73
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.70	0.73
3:N:12:LEU:HD23	3:N:13:ALA:H	1.53	0.73
3:D:1264:GLU:OE1	3:D:1425:THR:HB	1.88	0.73
3:N:194:GLY:H	3:N:206:ARG:HA	1.52	0.73
3:N:972:LEU:HD22	9:N:9844:HOH:O	1.88	0.73
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.53	0.73
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.89	0.73
2:C:136:ILE:HG21	2:C:336:VAL:HG13	1.70	0.73
2:C:1055:LEU:HD23	9:C:9632:HOH:O	1.87	0.73
3:N:850:LEU:H	3:N:850:LEU:HD12	1.53	0.73
5:P:256:ARG:NH1	5:P:313:GLU:HG2	2.03	0.73
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.19	0.73
3:D:704:ARG:NE	3:D:705:ALA:H	1.86	0.73
3:N:399:ARG:HG3	9:N:2231:HOH:O	1.87	0.73
2:C:1091:GLU:OE1	3:D:613:ARG:HG2	1.87	0.73
2:M:1016:ILE:HG12	9:P:5990:HOH:O	1.88	0.73
3:D:1221:VAL:HG13	9:D:9929:HOH:O	1.88	0.73
3:D:1277:ILE:HD12	3:D:1301:LYS:HB2	1.70	0.73
3:N:783:ARG:NH2	3:N:1029:ARG:HD3	2.02	0.73
2:M:1051:GLU:HG2	2:M:1056:LYS:HD2	1.70	0.73
3:N:1465:ASN:HD21	3:N:1470:ARG:HD3	1.53	0.73
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.71	0.73
2:C:233:GLU:OE1	2:C:237:ARG:HD3	1.89	0.73
2:M:395:LYS:HE2	2:M:403:SER:HB2	1.69	0.73
3:D:544:TYR:O	3:D:548:ILE:HG12	1.88	0.73
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.24	0.73
3:N:807:ALA:HB2	3:N:833:GLU:OE1	1.89	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:6:ARG:HH11	3:D:6:ARG:HB3	1.51	0.73
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.70	0.73
1:K:103:ALA:HB1	1:K:107:LYS:HD3	1.69	0.73
1:A:42:ARG:NH2	1:B:34:VAL:HB	2.04	0.73
1:B:185:ARG:HG3	1:B:190:THR:HG23	1.71	0.73
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.69	0.73
3:D:920:LEU:HB2	9:D:9488:HOH:O	1.88	0.73
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.87	0.73
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.69	0.73
2:M:710:ILE:HB	2:M:790:LEU:HD12	1.71	0.73
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.53	0.73
2:C:1008:ARG:NH1	2:C:1020:PRO:HB3	2.04	0.73
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.71	0.73
5:F:416:ARG:HB3	9:F:9582:HOH:O	1.89	0.73
5:P:234:LYS:HG3	9:P:3697:HOH:O	1.88	0.73
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.89	0.73
2:M:264:PRO:HB3	2:M:289:THR:HG21	1.71	0.72
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.04	0.72
1:A:14:ARG:NH2	1:A:22:GLU:HB3	2.04	0.72
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.23	0.72
2:M:948:GLU:HA	9:M:9767:HOH:O	1.88	0.72
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.69	0.72
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.69	0.72
2:M:626:ARG:NH1	2:M:637:LEU:HD12	2.04	0.72
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.04	0.72
3:N:1381:VAL:HB	3:N:1389:LEU:O	1.87	0.72
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.54	0.72
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	1.88	0.72
2:M:651:LYS:HA	9:M:9639:HOH:O	1.89	0.72
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.71	0.72
3:D:662:GLU:HB2	9:D:9514:HOH:O	1.89	0.72
3:D:215:TYR:O	3:D:389:GLU:HB2	1.88	0.72
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.70	0.72
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.70	0.72
2:M:71:TYR:HD2	2:M:71:TYR:H	1.36	0.72
1:K:222:LEU:HD11	1:L:218:LEU:HD23	1.72	0.72
3:N:108:VAL:HG23	3:N:109:PRO:HD3	1.71	0.72
1:A:175:ARG:NH2	1:A:202:ASP:HA	2.04	0.72
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.24	0.72
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.89	0.72
3:N:885:ILE:HG13	9:N:9868:HOH:O	1.89	0.72
3:N:1481:VAL:HG13	4:O:18:ARG:HE	1.54	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:165:LEU:HB2	9:M:9535:HOH:O	1.89	0.72
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.70	0.72
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.72	0.72
2:C:478:VAL:HA	2:C:506:ASN:O	1.90	0.72
1:A:145:ASP:HB3	9:A:9484:HOH:O	1.90	0.72
3:N:65:ARG:HG3	3:N:66:GLN:H	1.53	0.72
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.00	0.72
2:M:897:LEU:HG	2:M:920:GLN:NE2	2.04	0.72
2:C:993:PHE:HE1	2:C:995:MET:HG2	1.53	0.72
3:N:1090:ASP:HA	3:N:1093:TYR:HB2	1.72	0.72
3:N:996:TRP:HA	3:N:999:THR:HG22	1.72	0.72
4:O:51:LEU:HD12	4:O:52:GLU:H	1.55	0.72
3:N:212:ARG:HA	9:N:2226:HOH:O	1.90	0.72
3:D:842:VAL:HG23	9:D:2618:HOH:O	1.89	0.72
3:N:601:ARG:HG2	3:N:606:ILE:HD13	1.72	0.72
1:B:36:LEU:O	1:B:39:PRO:HD2	1.89	0.72
2:M:679:PHE:HB3	9:M:9536:HOH:O	1.87	0.72
2:M:367:LEU:HD23	2:M:371:LYS:HZ2	1.55	0.72
3:N:853:VAL:HG22	3:N:858:VAL:HG23	1.71	0.72
2:C:8:ARG:HG2	9:C:9597:HOH:O	1.89	0.72
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.71	0.72
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.25	0.72
2:M:139:GLN:HB3	2:M:334:ARG:HD2	1.71	0.72
3:D:1292:VAL:HG23	3:D:1305:LEU:HD11	1.71	0.72
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.72	0.72
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.72	0.72
3:D:41:ARG:HD3	3:D:42:ASP:N	2.05	0.72
1:A:42:ARG:HH11	2:C:978:ARG:HA	1.55	0.72
3:N:1382:THR:HG21	3:N:1418:LYS:NZ	2.05	0.72
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.50	0.72
2:M:210:GLU:HA	9:M:2282:HOH:O	1.90	0.72
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.54	0.72
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.54	0.72
3:D:978:TYR:HA	9:D:9513:HOH:O	1.89	0.72
3:D:723:GLY:HA3	9:D:9551:HOH:O	1.90	0.72
2:C:833:LEU:HD12	2:C:834:GLN:H	1.54	0.72
3:N:119:SER:H	3:N:123:LEU:HD22	1.54	0.71
2:C:728:HIS:HB3	2:C:729:LEU:HD12	1.72	0.71
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.72	0.71
2:C:108:ILE:HB	2:C:368:THR:OG1	1.88	0.71
5:P:178:ARG:HD3	9:P:3512:HOH:O	1.87	0.71
2:C:504:GLU:HG2	9:C:9601:HOH:O	1.89	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:546:LEU:HD11	2:M:666:LEU:HD23	1.71	0.71
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.70	0.71
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.72	0.71
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.21	0.71
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.70	0.71
1:A:49:PRO:HB3	1:A:148:VAL:HG22	1.71	0.71
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.71	0.71
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.72	0.71
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.72	0.71
3:D:534:ARG:HD3	9:F:9549:HOH:O	1.90	0.71
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.73	0.71
3:D:178:LEU:HD11	9:D:9843:HOH:O	1.89	0.71
1:A:46:SER:HB3	2:C:856:GLU:HG2	1.73	0.71
2:M:1000:MET:O	2:M:1003:ASP:HB3	1.91	0.71
2:M:578:VAL:HG11	2:M:991:GLN:HB3	1.72	0.71
1:K:226:SER:O	1:K:228:PRO:HD3	1.90	0.71
2:C:15:LEU:HD12	2:C:15:LEU:H	1.55	0.71
2:M:274:ARG:HD2	2:M:285:LEU:HB3	1.73	0.71
3:N:65:ARG:HA	9:N:2129:HOH:O	1.91	0.71
3:D:982:PHE:HB3	9:D:2466:HOH:O	1.89	0.71
1:K:39:PRO:O	1:K:43:ILE:HG12	1.90	0.71
3:N:1145:TYR:HE2	3:N:1168:MET:HB2	1.56	0.71
2:C:30:LEU:HB3	2:C:44:ILE:HD12	1.72	0.71
3:D:100:ALA:HB2	9:D:9966:HOH:O	1.90	0.71
2:M:772:ARG:HB2	2:M:772:ARG:HH11	1.54	0.71
1:L:24:VAL:HG13	1:L:196:THR:HB	1.73	0.71
2:M:948:GLU:HB2	9:M:9817:HOH:O	1.90	0.71
3:D:1136:LYS:HE3	3:D:1139:ASP:OD2	1.90	0.71
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.71	0.71
3:D:561:GLY:HA3	5:F:184:ARG:HH12	1.55	0.71
3:D:825:ALA:HB1	9:D:9486:HOH:O	1.91	0.71
2:M:769:PRO:HD2	9:N:2324:HOH:O	1.91	0.71
3:N:1404:ASN:HD22	3:N:1408:ILE:HD12	1.56	0.71
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.70	0.71
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.26	0.71
2:C:557:ARG:CZ	2:C:879:ARG:HD3	2.20	0.71
2:C:670:GLN:O	2:C:672:VAL:HG12	1.91	0.71
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.71	0.71
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.56	0.71
3:D:165:LYS:HB3	3:D:395:VAL:HG11	1.71	0.71
9:K:3474:HOH:O	1:L:42:ARG:HB3	1.91	0.71
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.56	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:352:ALA:O	2:C:356:ARG:HG3	1.91	0.71
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.73	0.71
2:C:127:PHE:HA	9:C:9502:HOH:O	1.89	0.71
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.91	0.71
3:N:962:GLN:HA	9:N:2437:HOH:O	1.90	0.71
4:E:30:LEU:O	4:E:35:PHE:HA	1.90	0.71
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.72	0.71
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.73	0.70
5:F:88:ILE:HB	9:F:9492:HOH:O	1.90	0.70
2:M:409:ARG:HH22	7:M:8002:RPT:H18	1.55	0.70
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.73	0.70
3:D:1464:GLU:HG2	9:D:2152:HOH:O	1.89	0.70
3:D:1307:LYS:HD3	3:D:1307:LYS:H	1.56	0.70
3:D:542:ASP:O	3:D:546:ARG:HG2	1.92	0.70
4:E:33:HIS:HB2	4:E:37:ASN:HD21	1.55	0.70
5:F:77:THR:O	5:F:81:VAL:HG23	1.90	0.70
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.71	0.70
3:D:756:GLN:O	3:D:760:ARG:HG2	1.91	0.70
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.73	0.70
3:D:493:ARG:NE	3:D:1388:ARG:HB3	2.06	0.70
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.71	0.70
2:M:704:HIS:HB2	2:M:831:ARG:HE	1.56	0.70
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.72	0.70
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.71	0.70
3:N:804:LEU:HB2	3:N:830:ALA:O	1.91	0.70
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.20	0.70
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.73	0.70
2:M:151:ASP:HB2	2:M:157:ARG:O	1.91	0.70
5:F:398:ARG:HG2	5:F:402:ASN:HD22	1.56	0.70
1:K:19:GLU:HG3	9:K:4352:HOH:O	1.91	0.70
2:M:1014:SER:HB3	2:M:1017:THR:O	1.90	0.70
3:N:884:ARG:HD2	9:N:9868:HOH:O	1.91	0.70
3:D:233:LYS:HA	9:D:2088:HOH:O	1.90	0.70
2:C:611:ILE:HD11	2:C:641:PRO:HB3	1.73	0.70
1:B:99:LEU:HD21	1:B:122:ILE:HD11	1.72	0.70
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.73	0.70
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.74	0.70
2:M:198:ARG:HH21	2:M:203:ASP:HB3	1.56	0.70
3:D:161:LEU:HD23	3:D:449:SER:HB3	1.72	0.70
2:M:111:ASP:HA	9:M:2096:HOH:O	1.92	0.70
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.72	0.70
3:D:1192:LEU:HD22	3:D:1345:GLU:HG2	1.73	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:554:ASP:OD2	2:C:556:ASN:HB3	1.91	0.70
3:N:153:LEU:HD11	3:N:158:TYR:N	2.06	0.70
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.72	0.70
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.21	0.70
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.73	0.70
2:M:269:LEU:HD21	9:M:9709:HOH:O	1.90	0.70
2:M:767:PRO:HG2	9:M:2323:HOH:O	1.91	0.70
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.72	0.70
5:P:156:VAL:HA	5:P:159:ILE:HD12	1.72	0.70
2:M:1095:LEU:HB2	2:M:1097:LEU:CD2	2.22	0.70
2:C:773:LEU:HD13	9:F:9672:HOH:O	1.91	0.70
2:M:328:LEU:HD23	2:M:437:ARG:HD3	1.74	0.70
3:N:966:GLU:HA	3:N:969:ARG:NH1	2.07	0.70
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.74	0.70
2:C:376:ARG:HH12	5:F:285:GLU:HG2	1.57	0.70
2:C:269:LEU:HD12	2:C:288:ARG:H	1.57	0.70
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.20	0.70
2:M:139:GLN:OE1	2:M:415:PRO:HD2	1.92	0.70
2:C:791:ARG:HH11	2:C:791:ARG:HB3	1.57	0.70
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.73	0.70
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.74	0.70
3:N:1033:GLN:HE21	3:N:1036:ARG:HD3	1.57	0.70
3:D:131:LYS:HE2	5:F:83:GLN:HE22	1.55	0.70
3:D:1493:LYS:O	3:D:1497:GLU:HG2	1.91	0.70
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.56	0.69
4:E:9:LEU:HD13	4:E:19:LEU:HD11	1.73	0.69
2:C:1109:VAL:HG23	3:D:3:LYS:HG2	1.73	0.69
2:C:84:ARG:HH21	2:C:128:ILE:HD11	1.57	0.69
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.06	0.69
2:C:42:VAL:HG12	2:C:43:GLY:H	1.57	0.69
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.56	0.69
3:D:566:ILE:HG23	5:F:214:GLN:OE1	1.92	0.69
3:N:704:ARG:HD2	3:N:705:ALA:H	1.57	0.69
2:C:1000:MET:HB3	2:C:1002:GLU:HG3	1.74	0.69
3:D:1269:LYS:HB3	9:D:2348:HOH:O	1.92	0.69
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.73	0.69
2:C:94:LEU:HD11	9:C:9738:HOH:O	1.91	0.69
2:M:157:ARG:HD2	2:M:314:THR:CG2	2.21	0.69
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.56	0.69
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	2.06	0.69
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.73	0.69
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.74	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:358:LEU:HD21	5:F:370:LYS:HE3	1.74	0.69
2:M:385:PHE:HA	9:M:9823:HOH:O	1.92	0.69
2:C:420:ARG:HD3	2:C:422:ARG:HG3	1.73	0.69
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.72	0.69
3:D:100:ALA:HA	9:D:9738:HOH:O	1.91	0.69
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.75	0.69
1:K:101:LEU:HG	1:K:114:PHE:HA	1.72	0.69
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.72	0.69
2:M:1042:ALA:HB1	3:N:710:ARG:HE	1.58	0.69
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.23	0.69
5:F:131:VAL:HG12	5:F:181:GLU:HG3	1.74	0.69
3:N:152:LEU:HD23	3:N:152:LEU:H	1.58	0.69
3:N:1238:MET:HG2	3:N:1256:LEU:HD23	1.74	0.69
2:M:983:ILE:HG21	2:M:987:ILE:HD11	1.73	0.69
3:N:397:LYS:HG2	9:N:2231:HOH:O	1.91	0.69
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.75	0.69
5:P:274:THR:O	5:P:278:LEU:HG	1.92	0.69
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.26	0.69
3:D:1420:LEU:HD12	3:D:1421:LEU:N	2.07	0.69
1:K:206:THR:HG23	1:K:209:GLU:HB2	1.75	0.69
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.40	0.69
2:C:41:ASN:H	2:C:41:ASN:ND2	1.90	0.69
1:B:184:THR:HB	1:B:194:LYS:HZ3	1.55	0.69
3:D:1324:PRO:HA	9:D:9544:HOH:O	1.92	0.69
2:M:881:ASN:H	2:M:881:ASN:HD22	1.39	0.69
3:N:1057:VAL:HG23	9:N:2261:HOH:O	1.92	0.69
3:N:1357:ARG:HG3	9:N:9798:HOH:O	1.93	0.69
5:F:144:ILE:HB	5:F:145:PRO:HD3	1.75	0.69
1:L:63:HIS:HB2	9:L:3319:HOH:O	1.91	0.69
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.22	0.69
4:O:10:PHE:HE2	4:O:16:LYS:HG3	1.58	0.69
2:C:889:HIS:HE1	3:D:951:ILE:H	1.40	0.69
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.73	0.69
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.23	0.69
2:C:1008:ARG:NH2	2:C:1028:GLY:HA2	2.08	0.69
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.58	0.69
2:M:768:THR:HB	2:M:771:GLU:HB3	1.75	0.69
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.28	0.69
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.73	0.69
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.75	0.69
2:M:678:PRO:HD2	9:N:9516:HOH:O	1.93	0.69
3:N:905:PRO:HD3	9:N:2419:HOH:O	1.91	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.57	0.69
1:L:112:ARG:HB3	1:L:112:ARG:NH1	2.07	0.69
3:D:1139:ASP:HB3	3:D:1357:ARG:NH2	2.08	0.69
1:K:49:PRO:HB3	1:K:148:VAL:HG22	1.75	0.69
3:D:1361:VAL:HG23	9:D:9531:HOH:O	1.93	0.69
2:C:367:LEU:HB3	2:C:371:LYS:HG2	1.75	0.69
5:P:361:LEU:HG	5:P:408:LEU:HD21	1.75	0.69
3:D:709:HIS:NE2	3:D:711:LEU:HB2	2.07	0.69
3:D:625:TYR:O	3:D:749:VAL:HG23	1.92	0.69
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.58	0.68
2:C:199:VAL:HG21	9:C:2083:HOH:O	1.92	0.68
2:M:670:GLN:O	2:M:672:VAL:HG12	1.93	0.68
3:D:1476:THR:HG23	4:E:21:VAL:HG22	1.76	0.68
3:N:793:THR:HB	3:N:879:ARG:HD3	1.74	0.68
2:C:775:ARG:NH2	2:C:782:ALA:HB1	2.02	0.68
2:C:96:ALA:HB2	9:C:9738:HOH:O	1.93	0.68
3:D:119:SER:HB2	3:D:123:LEU:N	2.06	0.68
3:N:507:ASN:HB2	9:N:9590:HOH:O	1.92	0.68
3:D:699:VAL:HG12	3:D:717:GLN:HA	1.76	0.68
2:M:833:LEU:HD12	2:M:834:GLN:N	2.08	0.68
2:M:518:LYS:HA	9:M:9720:HOH:O	1.93	0.68
3:D:1118:ILE:HG21	3:D:1346:ARG:NH2	2.09	0.68
2:C:455:LEU:H	2:C:455:LEU:HD23	1.57	0.68
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.74	0.68
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.74	0.68
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.76	0.68
5:F:372:ARG:HB2	9:F:9526:HOH:O	1.93	0.68
5:P:315:VAL:HA	9:P:4529:HOH:O	1.93	0.68
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.08	0.68
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.58	0.68
5:P:185:GLN:HA	5:P:188:ILE:HD12	1.75	0.68
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.74	0.68
3:D:1452:ILE:HG12	9:D:9759:HOH:O	1.93	0.68
3:N:551:ASN:HA	9:N:9830:HOH:O	1.91	0.68
1:K:61:VAL:HA	9:K:3552:HOH:O	1.94	0.68
2:M:598:GLU:HB3	9:M:9583:HOH:O	1.93	0.68
3:N:1115:THR:HG22	9:N:2569:HOH:O	1.93	0.68
2:C:1096:ALA:O	3:D:13:ALA:HB2	1.93	0.68
3:D:520:LEU:HD23	3:D:540:LEU:HD22	1.75	0.68
3:D:528:VAL:O	3:D:535:PHE:HA	1.92	0.68
3:D:153:LEU:HD12	3:D:154:THR:H	1.57	0.68
5:P:248:ASN:HA	5:P:251:ILE:HD12	1.76	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:18:ARG:O	1:K:207:PRO:HD3	1.93	0.68
3:D:996:TRP:CE3	3:D:999:THR:HG21	2.29	0.68
1:B:115:LEU:HB2	9:B:9609:HOH:O	1.93	0.68
1:B:58:ILE:HB	1:B:61:VAL:HB	1.74	0.68
1:B:80:LEU:HD23	3:D:867:ARG:HH12	1.59	0.68
1:L:27:PRO:HB3	1:L:192:LEU:HD22	1.75	0.68
3:D:877:PRO:HA	9:D:9580:HOH:O	1.91	0.68
3:N:30:GLU:HG3	3:N:41:ARG:HG2	1.76	0.68
3:D:628:ARG:HD3	3:D:744:GLN:NE2	2.08	0.68
3:D:209:ARG:NH2	3:D:397:LYS:HG3	2.09	0.68
2:M:915:LYS:HE2	9:M:9698:HOH:O	1.93	0.68
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.74	0.68
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.76	0.68
3:D:1236:LEU:HD11	3:D:1356:TYR:CE1	2.29	0.68
3:D:538:SER:HB3	9:F:9546:HOH:O	1.92	0.68
3:D:584:ASN:HD21	3:D:589:ALA:HA	1.59	0.68
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.09	0.68
5:F:93:LEU:HG	5:F:190:ALA:HB1	1.76	0.68
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.76	0.68
5:F:152:ASP:HA	9:F:9491:HOH:O	1.94	0.68
3:N:808:THR:HB	3:N:809:PRO:HD3	1.76	0.68
3:D:988:ARG:HD2	3:D:989:TYR:N	2.09	0.68
3:D:475:LYS:HG3	9:D:9989:HOH:O	1.92	0.68
3:D:86:ARG:HH11	3:D:86:ARG:HG2	1.58	0.68
2:C:432:ARG:HA	9:C:9669:HOH:O	1.94	0.68
2:M:773:LEU:HG	9:M:2483:HOH:O	1.93	0.68
4:O:30:LEU:O	4:O:35:PHE:HA	1.93	0.68
1:K:95:GLN:HG2	1:K:146:ARG:NH1	2.08	0.68
2:C:755:LEU:HD22	2:C:825:VAL:HG11	1.76	0.68
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.10	0.67
3:N:119:SER:HB2	3:N:123:LEU:N	2.09	0.67
2:M:630:ARG:HA	2:M:705:ILE:HD11	1.75	0.67
1:B:156:HIS:CE1	1:B:166:PRO:HB3	2.29	0.67
5:F:212:LEU:HD11	9:F:9654:HOH:O	1.94	0.67
3:D:611:GLN:HB3	3:D:616:GLN:NE2	2.09	0.67
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.76	0.67
3:D:490:ALA:HA	9:D:9583:HOH:O	1.93	0.67
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.76	0.67
5:P:228:GLU:HB3	9:P:4672:HOH:O	1.94	0.67
5:F:395:GLU:O	5:F:399:GLN:HB2	1.94	0.67
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.73	0.67
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.76	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:575:GLN:HE21	2:M:671:ASN:HB2	1.59	0.67
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.76	0.67
2:C:833:LEU:HD12	2:C:834:GLN:N	2.08	0.67
3:D:708:LEU:O	3:D:1227:GLN:HG2	1.94	0.67
2:C:732:ALA:HA	2:C:735:ARG:NH1	2.09	0.67
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.94	0.67
5:P:384:GLU:HA	9:P:4435:HOH:O	1.94	0.67
2:M:422:ARG:HA	9:M:9874:HOH:O	1.91	0.67
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.76	0.67
2:C:724:ARG:HH22	2:C:734:LEU:HB3	1.60	0.67
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.75	0.67
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.76	0.67
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.75	0.67
3:N:1271:LYS:HG2	3:N:1272:ALA:N	2.09	0.67
2:M:22:GLN:NE2	2:M:336:VAL:HG21	2.09	0.67
1:L:116:PRO:HD2	9:L:4090:HOH:O	1.94	0.67
1:A:95:GLN:HG2	1:A:146:ARG:HH22	1.58	0.67
2:C:534:VAL:HB	2:C:538:GLN:OE1	1.93	0.67
5:P:76:SER:O	5:P:80:PRO:HD2	1.95	0.67
3:D:1045:MET:CG	3:D:1073:SER:HA	2.24	0.67
2:M:958:THR:OG1	2:M:961:GLU:HG2	1.94	0.67
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.76	0.67
3:D:1330:ILE:HA	9:D:2043:HOH:O	1.94	0.67
3:N:754:PHE:HZ	4:O:21:VAL:HG13	1.59	0.67
1:B:46:SER:O	1:B:148:VAL:HB	1.94	0.67
9:D:9593:HOH:O	5:F:222:ARG:HA	1.93	0.67
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.21	0.67
3:N:810:GLU:O	3:N:813:LEU:HG	1.94	0.67
5:F:361:LEU:HD23	5:F:362:SER:H	1.59	0.67
2:M:45:GLN:HB2	2:M:71:TYR:CE1	2.30	0.67
2:M:1021:LEU:HD21	5:P:332:PHE:HA	1.75	0.67
3:N:898:GLU:HB2	3:N:921:ARG:HH22	1.59	0.67
3:D:661:MET:HE3	3:D:673:ALA:HB1	1.74	0.67
2:C:95:TYR:HA	9:C:2013:HOH:O	1.94	0.67
2:M:92:ALA:HB1	9:M:2197:HOH:O	1.94	0.67
3:N:119:SER:OG	3:N:123:LEU:HD13	1.95	0.67
2:M:140:ILE:HA	2:M:332:ARG:O	1.95	0.67
3:N:830:ALA:HA	9:N:9638:HOH:O	1.95	0.67
3:D:754:PHE:HZ	4:E:21:VAL:HG13	1.60	0.67
2:M:478:VAL:HA	2:M:506:ASN:O	1.95	0.67
3:N:216:VAL:HG13	9:N:9526:HOH:O	1.94	0.67
2:M:23:VAL:HG12	9:M:9741:HOH:O	1.93	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:529:GLN:HB2	9:N:9903:HOH:O	1.94	0.67
2:M:815:LEU:HD23	9:M:9901:HOH:O	1.95	0.67
2:C:72:ARG:HE	2:C:97:ARG:HH12	1.42	0.67
2:C:882:LEU:HD23	2:C:885:ILE:HB	1.76	0.67
9:N:9768:HOH:O	5:P:254:GLN:HG2	1.95	0.67
2:M:724:ARG:HG3	2:M:740:GLU:HA	1.75	0.67
4:O:51:LEU:HG	4:O:53:GLY:H	1.60	0.67
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.76	0.67
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.60	0.67
4:O:54:LEU:HD11	9:O:3983:HOH:O	1.93	0.67
3:D:1280:VAL:HB	9:D:9793:HOH:O	1.95	0.67
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.76	0.67
2:M:758:ARG:HB3	2:M:788:THR:O	1.95	0.67
2:M:689:VAL:HG23	2:M:870:ILE:HB	1.77	0.67
3:N:796:ARG:NH1	3:N:861:GLN:HB2	2.10	0.67
2:C:1109:VAL:HG11	3:D:5:VAL:HG13	1.77	0.67
3:N:1194:CYS:HB2	9:N:9589:HOH:O	1.93	0.67
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.77	0.67
3:N:1149:LEU:HD12	3:N:1161:GLU:O	1.93	0.67
3:D:393:ILE:HG22	9:D:9798:HOH:O	1.95	0.67
3:N:1271:LYS:HG2	3:N:1272:ALA:H	1.59	0.67
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.77	0.67
1:B:226:SER:HB3	9:B:9483:HOH:O	1.95	0.67
2:M:346:VAL:HG12	2:M:350:ARG:HE	1.60	0.67
1:L:189:ARG:HG2	9:L:4538:HOH:O	1.94	0.67
5:F:275:ALA:HA	5:F:278:LEU:HD12	1.75	0.67
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.60	0.67
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.76	0.67
3:D:1314:LYS:HD3	9:D:9730:HOH:O	1.94	0.67
3:N:464:LEU:HD11	9:N:9679:HOH:O	1.95	0.67
3:N:661:MET:HA	3:N:666:ILE:HD12	1.77	0.67
3:D:1076:GLY:O	3:D:1079:LYS:HG3	1.95	0.67
1:B:78:ILE:HA	9:B:9525:HOH:O	1.94	0.67
3:N:1484:THR:HG21	9:O:5601:HOH:O	1.95	0.67
1:K:197:LEU:H	1:K:197:LEU:HD23	1.60	0.66
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.77	0.66
2:C:881:ASN:HD22	2:C:881:ASN:H	1.44	0.66
3:N:1337:GLU:HB3	9:N:9525:HOH:O	1.94	0.66
5:F:321:ILE:HB	5:F:327:SER:OG	1.94	0.66
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.11	0.66
3:N:559:ALA:HA	9:P:4212:HOH:O	1.94	0.66
2:M:1000:MET:HB3	2:M:1002:GLU:HG3	1.75	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:660:ALA:HB1	2:C:667:ALA:O	1.94	0.66
3:N:426:LYS:HG3	3:N:434:ARG:NH1	2.10	0.66
3:N:135:LEU:HD13	3:N:147:VAL:HG23	1.75	0.66
2:M:686:ASP:HB2	9:N:2186:HOH:O	1.94	0.66
2:M:186:VAL:HG23	2:M:187:ASN:H	1.60	0.66
2:M:961:GLU:HG3	9:M:9678:HOH:O	1.94	0.66
3:N:41:ARG:HD3	3:N:42:ASP:H	1.60	0.66
1:K:54:THR:HG21	9:K:3856:HOH:O	1.95	0.66
3:D:795:VAL:HG23	3:D:879:ARG:NH1	2.09	0.66
1:B:51:THR:HB	9:B:9600:HOH:O	1.95	0.66
4:O:78:ASN:HB3	9:O:3563:HOH:O	1.94	0.66
1:B:132:LEU:HD21	1:B:136:GLY:O	1.96	0.66
1:L:88:ARG:NH1	1:L:88:ARG:HB3	2.09	0.66
2:M:905:ILE:H	2:M:905:ILE:CD1	2.06	0.66
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.77	0.66
3:N:35:ARG:HD2	3:N:36:THR:N	2.09	0.66
3:N:185:VAL:HG13	9:N:9966:HOH:O	1.96	0.66
2:C:708:TYR:HE2	2:C:793:PRO:HD2	1.60	0.66
3:N:1091:SER:HA	9:N:9756:HOH:O	1.96	0.66
2:C:373:VAL:HG12	9:C:9971:HOH:O	1.95	0.66
3:N:459:GLU:HA	9:N:9521:HOH:O	1.95	0.66
3:D:1112:CYS:HA	9:D:2465:HOH:O	1.93	0.66
1:K:89:PHE:HB2	1:K:94:LEU:HD13	1.77	0.66
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.95	0.66
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.76	0.66
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.31	0.66
2:C:503:LEU:HD12	2:C:505:GLY:H	1.60	0.66
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.77	0.66
3:D:850:LEU:HD12	3:D:850:LEU:H	1.59	0.66
3:D:846:PRO:HB3	9:D:2128:HOH:O	1.94	0.66
3:D:770:LEU:HG	3:D:919:PHE:CE1	2.30	0.66
3:N:907:GLU:O	3:N:911:LEU:HD13	1.96	0.66
2:M:660:ALA:HB1	2:M:667:ALA:O	1.94	0.66
1:A:86:VAL:HG21	1:A:202:ASP:O	1.96	0.66
4:E:36:LYS:HB3	9:E:9557:HOH:O	1.95	0.66
3:D:924:MET:HG2	9:D:9500:HOH:O	1.94	0.66
3:D:1066:THR:HG22	3:D:1069:GLU:HG3	1.75	0.66
5:P:88:ILE:HG23	9:P:4361:HOH:O	1.96	0.66
3:D:1097:LYS:HA	9:D:9591:HOH:O	1.94	0.66
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	1.96	0.66
3:N:1301:LYS:HE3	3:N:1301:LYS:HA	1.75	0.66
3:D:1124:GLN:NE2	3:D:1135:ARG:HA	2.11	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:420:ARG:HD2	2:C:420:ARG:H	1.59	0.66
2:M:292:ARG:HB2	2:M:299:LYS:HE2	1.78	0.66
3:D:1432:LYS:NZ	3:D:1460:ILE:HG13	2.10	0.66
4:E:43:GLU:CD	4:E:43:GLU:H	1.99	0.66
3:N:1129:THR:HA	9:N:2005:HOH:O	1.95	0.66
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.78	0.66
3:D:875:THR:HB	9:D:9975:HOH:O	1.96	0.66
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.11	0.66
3:D:1031:ASN:HB3	3:D:1034:GLN:HG3	1.77	0.66
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.25	0.66
3:D:796:ARG:HH11	3:D:861:GLN:HB2	1.59	0.66
5:F:406:ARG:HA	5:F:409:LYS:HG2	1.78	0.66
3:N:1145:TYR:CE2	3:N:1168:MET:HB2	2.30	0.66
3:D:611:GLN:HG3	5:F:326:ASP:HB2	1.78	0.66
2:M:347:GLY:HA2	2:M:350:ARG:HD2	1.76	0.66
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.78	0.66
2:C:724:ARG:HH11	2:C:724:ARG:HB3	1.60	0.66
3:D:176:ASP:HA	9:D:2419:HOH:O	1.96	0.66
1:B:38:ASN:O	1:B:41:ARG:HG2	1.96	0.66
5:F:335:ASP:OD1	5:F:338:LEU:HB2	1.94	0.66
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.78	0.66
2:C:405:ARG:HD2	2:C:442:GLU:OE1	1.96	0.66
3:N:535:PHE:HB3	5:P:314:PRO:HB3	1.78	0.66
1:K:91:ASN:HB2	9:K:5800:HOH:O	1.94	0.66
2:C:182:VAL:HG12	2:C:193:LEU:HD13	1.78	0.66
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.77	0.66
3:N:1399:ASP:O	3:N:1403:LEU:HB2	1.95	0.66
2:C:703:ILE:HD11	2:C:830:LYS:HG2	1.78	0.66
3:N:1166:LEU:HD12	3:N:1171:VAL:HG22	1.78	0.66
3:D:1096:ARG:CB	3:D:1096:ARG:HH11	2.08	0.66
2:C:1014:SER:HB3	2:C:1017:THR:O	1.95	0.66
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.78	0.66
3:N:984:THR:HG22	3:N:987:GLU:H	1.61	0.66
3:D:924:MET:HB3	4:E:7:ASP:OD1	1.96	0.66
2:C:256:TYR:CE1	2:C:293:PHE:HB2	2.30	0.66
1:B:180:GLN:HA	9:B:9698:HOH:O	1.94	0.66
2:M:1018:GLN:NE2	2:M:1060:ILE:HD11	2.07	0.65
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.77	0.65
3:D:1462:LEU:HD22	3:D:1473:PRO:HD2	1.76	0.65
3:D:699:VAL:CG1	3:D:717:GLN:HG3	2.26	0.65
2:M:820:ARG:HB2	9:M:2167:HOH:O	1.95	0.65
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.61	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:610:ARG:HB2	9:C:9703:HOH:O	1.96	0.65
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.78	0.65
3:N:1036:ARG:HH21	3:N:1042:ARG:CA	2.05	0.65
3:N:28:LYS:HG3	3:N:29:PRO:HD2	1.78	0.65
2:M:89:THR:O	2:M:91:GLN:HG3	1.96	0.65
3:N:1471:LEU:HD12	3:N:1472:ILE:H	1.61	0.65
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.78	0.65
1:L:78:ILE:HG12	9:L:4728:HOH:O	1.97	0.65
2:M:966:LEU:HD21	2:M:986:PRO:HG2	1.78	0.65
2:M:1084:SER:O	2:M:1087:VAL:HG12	1.95	0.65
5:F:235:PHE:HA	9:F:9701:HOH:O	1.95	0.65
5:P:320:PRO:HB2	5:P:324:GLU:HG2	1.78	0.65
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.62	0.65
2:C:478:VAL:HG13	2:C:506:ASN:HB3	1.78	0.65
5:P:404:ALA:HB2	9:P:3792:HOH:O	1.97	0.65
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.77	0.65
5:P:419:ARG:HD3	9:P:6175:HOH:O	1.95	0.65
1:K:41:ARG:O	1:K:45:LEU:HD12	1.96	0.65
2:C:328:LEU:HD22	2:C:433:THR:HG22	1.78	0.65
3:D:1031:ASN:HA	9:D:2225:HOH:O	1.97	0.65
3:D:572:ARG:HD2	9:F:9689:HOH:O	1.95	0.65
2:M:451:LEU:HD12	2:M:451:LEU:H	1.58	0.65
2:M:454:SER:HB3	9:M:2089:HOH:O	1.95	0.65
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.78	0.65
2:M:305:PRO:HG3	2:M:308:ARG:HH21	1.61	0.65
2:C:252:LYS:HE3	9:C:9859:HOH:O	1.95	0.65
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.78	0.65
2:M:300:ASP:HB2	9:M:9603:HOH:O	1.95	0.65
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.27	0.65
3:N:875:THR:HG23	9:N:2072:HOH:O	1.95	0.65
5:P:393:THR:HG22	5:P:394:ARG:H	1.61	0.65
2:C:1060:ILE:HA	2:C:1063:ARG:NH1	2.12	0.65
3:D:1491:THR:O	3:D:1495:ILE:HD13	1.96	0.65
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.78	0.65
2:M:573:ARG:HG3	2:M:698:ASP:O	1.94	0.65
3:N:1191:PRO:HA	9:N:9589:HOH:O	1.96	0.65
3:N:480:GLU:OE2	3:N:484:PRO:HG2	1.97	0.65
2:M:576:ALA:HB3	9:M:2073:HOH:O	1.96	0.65
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.27	0.65
3:N:728:LEU:HD12	3:N:729:HIS:H	1.62	0.65
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.25	0.65
2:M:794:PRO:HB2	2:M:1027:PHE:CZ	2.31	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:105:VAL:HG12	3:N:106:LYS:NZ	2.11	0.65
2:M:310:LEU:HD13	9:M:9990:HOH:O	1.97	0.65
3:N:566:ILE:HG12	5:P:217:ASN:HD22	1.61	0.65
3:D:190:GLU:HG3	3:D:210:ARG:NE	2.12	0.65
2:M:231:PRO:HG2	9:M:2420:HOH:O	1.95	0.65
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.27	0.65
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.31	0.65
3:N:117:ASP:HB2	3:N:495:ARG:NH2	2.12	0.65
5:P:266:GLU:HA	5:P:269:ASN:HD22	1.60	0.65
4:O:74:VAL:HG12	4:O:79:LEU:HD21	1.78	0.65
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.32	0.65
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.77	0.65
5:F:314:PRO:HB2	9:F:9527:HOH:O	1.96	0.65
2:M:162:ILE:HB	2:M:172:ILE:HB	1.78	0.65
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.78	0.65
2:M:833:LEU:HD12	2:M:834:GLN:H	1.62	0.65
2:C:1067:TYR:O	2:C:1071:ILE:HG12	1.97	0.65
3:N:536:ALA:HA	5:P:315:VAL:H	1.61	0.65
1:B:77:GLU:HB2	3:D:872:ARG:HH21	1.62	0.65
5:P:262:VAL:HG12	5:P:266:GLU:OE1	1.95	0.65
3:D:980:MET:HG3	9:D:2017:HOH:O	1.96	0.65
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.78	0.65
2:C:798:GLY:H	2:C:827:VAL:HG11	1.62	0.65
3:D:1187:PRO:HG3	9:D:9606:HOH:O	1.96	0.65
2:M:498:GLN:O	2:M:501:THR:HG23	1.96	0.65
5:P:220:LEU:O	5:P:224:VAL:HG23	1.96	0.65
1:B:150:TYR:CD2	3:D:857:ILE:HG13	2.32	0.65
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.27	0.65
5:P:208:SER:HB2	5:P:211:ASP:OD1	1.96	0.65
3:N:1213:ARG:HE	3:N:1213:ARG:N	1.95	0.65
3:N:127:LEU:HD12	3:N:128:TYR:N	2.11	0.65
2:C:860:HIS:CD2	2:C:975:TYR:HB2	2.32	0.65
2:C:524:VAL:CG1	2:C:528:GLU:HB2	2.26	0.65
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.79	0.65
3:D:478:LEU:HD13	3:D:1388:ARG:NH2	2.12	0.65
1:K:223:THR:HA	9:K:5661:HOH:O	1.95	0.65
2:C:350:ARG:HB3	2:C:350:ARG:HH11	1.59	0.65
5:F:351:SER:O	5:F:355:GLU:HB2	1.96	0.65
3:N:1243:THR:OG1	3:N:1253:THR:HB	1.97	0.65
5:P:222:ARG:HA	9:P:3420:HOH:O	1.96	0.65
3:N:1466:VAL:HG23	3:N:1472:ILE:HD11	1.79	0.65
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.27	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:971:LEU:HA	3:N:974:ILE:HD12	1.79	0.65
1:B:68:ILE:HD12	1:B:71:VAL:HG21	1.78	0.65
2:C:115:LEU:HB3	9:C:9971:HOH:O	1.97	0.65
3:D:1285:GLU:H	3:D:1285:GLU:CD	2.00	0.65
2:M:1072:LYS:HA	9:M:9641:HOH:O	1.97	0.65
1:L:58:ILE:HB	1:L:61:VAL:HB	1.78	0.65
2:M:583:LEU:O	2:M:587:VAL:HG23	1.96	0.65
3:D:546:ARG:O	3:D:550:ARG:HG2	1.97	0.65
2:C:394:PHE:HB3	7:C:8001:RPT:H321	1.79	0.65
2:C:910:LYS:HB2	2:C:913:GLU:OE1	1.97	0.65
2:C:181:VAL:HG11	9:C:2145:HOH:O	1.97	0.65
2:C:701:THR:HG23	2:C:832:LYS:HG3	1.79	0.65
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.62	0.65
1:B:101:LEU:HD21	1:B:113:ASP:HB3	1.78	0.65
3:N:992:ILE:HB	9:N:9914:HOH:O	1.97	0.65
2:M:739:GLU:HG3	9:M:9543:HOH:O	1.96	0.65
3:D:172:PRO:HD2	3:D:389:GLU:O	1.97	0.64
3:N:756:GLN:O	3:N:760:ARG:HG2	1.95	0.64
2:C:433:THR:HA	9:C:9591:HOH:O	1.97	0.64
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.79	0.64
3:D:190:GLU:HG3	3:D:210:ARG:HE	1.62	0.64
3:D:1437:ALA:HA	3:D:1440:PHE:CE1	2.32	0.64
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.32	0.64
4:E:49:GLN:HB2	9:E:9593:HOH:O	1.96	0.64
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.77	0.64
2:C:971:LYS:HA	2:C:988:VAL:HA	1.79	0.64
2:M:409:ARG:HA	2:M:454:SER:HA	1.78	0.64
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.79	0.64
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.78	0.64
2:M:10:ARG:HA	2:M:10:ARG:HH11	1.62	0.64
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.78	0.64
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.78	0.64
3:N:715:ALA:O	3:N:764:LEU:HD12	1.97	0.64
3:N:543:LEU:HD22	3:N:580:ALA:HB1	1.78	0.64
2:C:676:ILE:HG23	3:D:948:THR:HB	1.80	0.64
3:D:122:GLU:O	3:D:126:VAL:HG23	1.98	0.64
2:M:198:ARG:HH12	2:M:231:PRO:HG3	1.62	0.64
3:D:1254:GLN:HG3	9:D:2555:HOH:O	1.96	0.64
1:L:80:LEU:HB3	3:N:867:ARG:NH2	2.13	0.64
2:C:71:TYR:HB2	9:C:9517:HOH:O	1.97	0.64
2:C:432:ARG:HD3	3:D:1048:PRO:HG2	1.79	0.64
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.80	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:428:LYS:HE3	3:N:434:ARG:HH12	1.63	0.64
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.78	0.64
3:D:996:TRP:HE3	3:D:999:THR:HG21	1.60	0.64
2:C:162:ILE:O	2:C:164:PRO:HD3	1.96	0.64
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.80	0.64
2:C:650:ARG:HG3	2:C:653:ASP:HB2	1.78	0.64
1:A:20:TYR:HD2	1:A:21:GLY:N	1.95	0.64
2:M:726:ILE:HG22	9:M:2191:HOH:O	1.98	0.64
1:B:85:LEU:HD12	1:B:124:ASN:HB3	1.78	0.64
2:C:678:PRO:O	3:D:943:THR:HA	1.97	0.64
5:P:80:PRO:HA	5:P:83:GLN:HB2	1.80	0.64
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.80	0.64
3:N:13:ALA:HA	9:N:9515:HOH:O	1.98	0.64
1:L:33:GLY:O	1:L:195:LEU:HD22	1.97	0.64
2:C:580:MET:HA	9:C:9544:HOH:O	1.97	0.64
3:N:975:GLU:O	3:N:979:GLU:HG3	1.97	0.64
3:N:672:ALA:HB2	5:P:420:ASP:OD1	1.98	0.64
3:D:804:LEU:HB2	3:D:830:ALA:O	1.98	0.64
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.79	0.64
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.33	0.64
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.78	0.64
1:B:186:LEU:HD23	9:B:9707:HOH:O	1.96	0.64
5:P:279:GLN:HA	9:P:4921:HOH:O	1.97	0.64
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.63	0.64
5:P:226:LYS:HB2	9:P:6226:HOH:O	1.96	0.64
3:D:1377:LYS:O	3:D:1394:VAL:HA	1.97	0.64
3:D:178:LEU:HG	3:D:200:ASP:H	1.62	0.64
3:N:1282:ARG:HD3	3:N:1295:GLU:OE2	1.98	0.64
1:L:81:ASN:HB3	9:L:4066:HOH:O	1.97	0.64
1:L:89:PHE:HB2	1:L:94:LEU:HD13	1.78	0.64
1:K:20:TYR:HD2	1:K:21:GLY:H	1.46	0.64
2:C:720:GLU:HG2	2:C:760:SER:HB3	1.80	0.64
2:C:76:PRO:HG3	9:C:2288:HOH:O	1.98	0.64
3:N:817:GLU:O	3:N:821:VAL:HG23	1.98	0.64
3:D:214:GLU:HG3	3:D:390:PRO:HB2	1.80	0.64
2:C:889:HIS:CE1	3:D:951:ILE:H	2.15	0.64
1:A:177:VAL:O	2:C:864:GLY:HA3	1.97	0.64
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.80	0.64
1:L:32:PHE:HB2	9:L:5175:HOH:O	1.98	0.64
1:B:180:GLN:HG3	9:B:9530:HOH:O	1.97	0.64
2:C:673:LEU:HD22	2:C:867:VAL:HA	1.79	0.64
1:B:214:ALA:HA	1:B:217:ILE:HD12	1.79	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1008:ARG:HE	2:C:1028:GLY:N	1.96	0.64
2:M:1046:ALA:HB1	3:N:1471:LEU:HD11	1.80	0.64
2:C:595:LEU:HB3	9:C:9812:HOH:O	1.98	0.64
3:D:590:PRO:HA	9:D:9578:HOH:O	1.96	0.64
2:M:987:ILE:HG12	3:N:948:THR:HG21	1.80	0.64
2:M:455:LEU:HD12	2:M:456:ALA:O	1.98	0.64
2:C:1098:ASP:HB2	3:D:21:TRP:CZ2	2.33	0.64
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.79	0.64
5:P:305:GLU:HG2	9:P:3554:HOH:O	1.98	0.64
1:A:193:ASP:HA	9:A:9491:HOH:O	1.96	0.64
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.28	0.64
2:C:413:LEU:HD12	2:C:413:LEU:H	1.63	0.64
2:C:1021:LEU:HD22	9:F:9484:HOH:O	1.98	0.64
3:D:817:GLU:HG3	3:D:839:LEU:HD13	1.78	0.64
3:D:395:VAL:HG12	9:D:2245:HOH:O	1.99	0.64
4:O:41:GLU:O	4:O:45:ARG:HG2	1.98	0.64
2:C:716:LYS:HD3	9:C:2019:HOH:O	1.96	0.64
2:C:926:PHE:O	2:C:930:LYS:HG3	1.97	0.64
2:M:511:GLU:O	2:M:526:PRO:HD3	1.98	0.64
1:L:62:LEU:HD12	9:L:4737:HOH:O	1.97	0.64
2:C:730:SER:O	2:C:734:LEU:HD13	1.98	0.63
2:C:379:GLU:O	2:C:383:ARG:HB3	1.97	0.63
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.80	0.63
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.28	0.63
3:N:1093:TYR:HA	9:N:2053:HOH:O	1.98	0.63
3:D:1124:GLN:NE2	3:D:1135:ARG:HG2	2.13	0.63
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.79	0.63
2:C:250:ARG:HG2	2:C:253:ALA:HB3	1.79	0.63
2:C:605:LYS:HD3	2:C:610:ARG:NH1	2.13	0.63
2:M:612:VAL:HG22	2:M:622:GLU:HG3	1.80	0.63
5:P:123:ASP:HB3	5:P:125:ASP:OD1	1.98	0.63
3:D:1465:ASN:HD21	3:D:1470:ARG:NH1	1.95	0.63
3:D:907:GLU:O	3:D:911:LEU:HD13	1.97	0.63
2:M:575:GLN:HA	2:M:662:GLU:OE2	1.98	0.63
2:M:68:PHE:HZ	2:M:71:TYR:HB3	1.63	0.63
1:B:103:ALA:O	1:B:138:LEU:HD23	1.97	0.63
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.80	0.63
3:D:808:THR:HB	3:D:809:PRO:HD3	1.80	0.63
2:C:399:ASN:N	2:C:399:ASN:HD22	1.96	0.63
2:C:404:LEU:HD22	2:C:591:SER:HB3	1.80	0.63
2:C:156:GLY:HA3	9:C:2245:HOH:O	1.97	0.63
3:D:396:VAL:HG11	9:D:9781:HOH:O	1.98	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:119:SER:H	3:N:123:LEU:HB2	1.63	0.63
2:C:816:LYS:HE2	2:C:819:VAL:HG21	1.78	0.63
3:N:1192:LEU:HD12	3:N:1346:ARG:HH21	1.63	0.63
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.27	0.63
2:C:724:ARG:HB2	2:C:740:GLU:HG3	1.79	0.63
2:M:1095:LEU:HD11	3:N:607:LEU:HD11	1.80	0.63
2:M:1056:LYS:O	3:N:624:ASP:HB2	1.98	0.63
3:N:125:GLN:HE22	3:N:587:ARG:HH21	1.46	0.63
9:C:9697:HOH:O	4:E:31:LEU:HD11	1.99	0.63
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.12	0.63
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.34	0.63
3:N:535:PHE:O	5:P:315:VAL:N	2.30	0.63
3:N:95:LEU:HD12	3:N:515:GLU:C	2.18	0.63
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.80	0.63
1:L:172:SER:HB3	9:L:4444:HOH:O	1.97	0.63
1:K:109:VAL:HG23	9:K:3900:HOH:O	1.98	0.63
2:C:771:GLU:O	2:C:775:ARG:HG2	1.98	0.63
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.28	0.63
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.80	0.63
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.14	0.63
3:N:628:ARG:HD3	3:N:744:GLN:HE22	1.63	0.63
3:D:1272:ALA:HB2	9:D:2257:HOH:O	1.97	0.63
4:O:31:LEU:HD23	4:O:35:PHE:CE1	2.33	0.63
3:D:829:VAL:HA	9:D:2030:HOH:O	1.97	0.63
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.34	0.63
1:A:181:VAL:HG12	9:A:9491:HOH:O	1.97	0.63
4:O:84:ARG:HH11	4:O:84:ARG:HB2	1.64	0.63
2:C:1066:ALA:O	2:C:1070:ILE:HG13	1.99	0.63
1:A:198:ARG:HD3	1:A:200:TRP:HH2	1.62	0.63
2:M:191:PHE:HZ	2:M:196:LEU:HB2	1.64	0.63
2:M:943:VAL:HA	9:M:2224:HOH:O	1.99	0.63
3:N:1465:ASN:ND2	3:N:1470:ARG:HD3	2.12	0.63
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.79	0.63
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.34	0.63
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.13	0.63
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.63	0.63
3:N:1147:ARG:O	3:N:1165:TYR:HA	1.99	0.63
2:C:724:ARG:HG3	2:C:741:GLY:N	2.07	0.63
2:C:1084:SER:O	2:C:1087:VAL:HG12	1.98	0.63
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.81	0.63
2:C:949:LYS:CD	3:D:796:ARG:HH21	2.12	0.63
2:M:443:THR:O	2:M:559:LEU:HD11	1.99	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:595:LEU:HD23	2:C:655:LEU:HD12	1.81	0.63
3:D:111:LYS:HD3	9:D:9759:HOH:O	1.97	0.63
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.79	0.63
2:C:145:GLY:H	2:C:163:ILE:HG23	1.63	0.63
3:N:393:ILE:H	3:N:393:ILE:HD12	1.64	0.63
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.80	0.63
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.81	0.63
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.99	0.63
3:D:551:ASN:O	3:D:555:LYS:HG3	1.98	0.63
4:O:72:ARG:HD2	9:O:5366:HOH:O	1.98	0.63
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.81	0.63
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.80	0.63
2:M:1115:LEU:HD12	2:M:1115:LEU:H	1.64	0.63
3:D:787:LEU:HD21	3:D:947:ILE:HD13	1.80	0.63
2:M:428:ARG:HG2	2:M:451:LEU:HG	1.81	0.63
3:D:699:VAL:HG21	3:D:760:ARG:HB3	1.81	0.63
3:D:1290:LEU:HD13	3:D:1305:LEU:HD12	1.80	0.63
2:M:863:ASP:OD2	2:M:865:THR:HG22	1.99	0.63
2:C:25:SER:HB2	2:C:335:THR:HB	1.81	0.63
3:N:1159:ARG:HD3	9:N:9583:HOH:O	1.98	0.63
3:D:393:ILE:H	3:D:393:ILE:HD12	1.64	0.63
2:M:431:HIS:H	2:M:434:HIS:CE1	2.17	0.63
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.81	0.63
1:A:97:VAL:HG23	9:A:9486:HOH:O	1.98	0.63
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.80	0.63
3:N:589:ALA:HB3	9:N:9549:HOH:O	1.98	0.63
5:F:347:GLN:HG2	9:F:9631:HOH:O	1.98	0.63
3:N:1500:LYS:HA	9:N:2479:HOH:O	1.99	0.63
3:N:1329:ALA:HA	9:N:9884:HOH:O	1.98	0.63
1:K:78:ILE:HA	1:K:81:ASN:ND2	2.14	0.63
3:N:423:ASP:OD2	5:P:174:LEU:HD22	1.98	0.62
2:C:305:PRO:HG3	2:C:308:ARG:NH2	2.14	0.62
3:D:126:VAL:HG22	9:D:2697:HOH:O	1.98	0.62
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.14	0.62
2:C:721:ARG:HH21	2:C:783:ARG:HH21	1.47	0.62
2:C:151:ASP:HB2	2:C:157:ARG:O	1.98	0.62
3:D:810:GLU:O	3:D:813:LEU:HG	1.98	0.62
2:C:1034:GLU:HG3	9:C:9762:HOH:O	1.98	0.62
3:D:1063:GLU:HG2	3:D:1064:GLY:N	2.14	0.62
3:D:531:ASP:C	3:D:533:GLY:H	2.00	0.62
5:F:273:ARG:HB3	9:F:9511:HOH:O	1.97	0.62
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.80	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:557:ARG:HB2	9:C:9570:HOH:O	1.98	0.62
3:D:1495:ILE:HD11	9:E:9594:HOH:O	1.97	0.62
2:C:244:PRO:HB3	9:C:9757:HOH:O	1.99	0.62
3:N:177:ALA:HB3	9:N:2388:HOH:O	1.99	0.62
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.28	0.62
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.63	0.62
5:F:347:GLN:HG3	9:F:9808:HOH:O	1.99	0.62
2:M:802:ARG:HB3	9:M:9780:HOH:O	1.98	0.62
5:P:87:GLU:O	5:P:91:VAL:HG23	1.99	0.62
1:B:151:VAL:HG23	9:B:9528:HOH:O	1.99	0.62
1:K:67:THR:HG23	2:M:627:ARG:NH2	2.14	0.62
5:P:154:LYS:O	5:P:158:GLU:HG3	1.98	0.62
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.81	0.62
2:C:503:LEU:HD13	2:C:507:ARG:O	1.99	0.62
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.30	0.62
2:M:222:MET:HB3	9:M:9807:HOH:O	1.98	0.62
3:N:674:ARG:HG2	3:N:674:ARG:HH11	1.64	0.62
2:C:606:VAL:HG22	2:C:645:VAL:HG22	1.81	0.62
2:C:313:LEU:HA	9:C:2113:HOH:O	1.98	0.62
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.82	0.62
2:M:310:LEU:O	2:M:314:THR:HG23	1.99	0.62
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.15	0.62
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.28	0.62
2:M:308:ARG:HB3	9:M:9658:HOH:O	1.99	0.62
2:C:554:ASP:HB2	2:C:880:MET:HB2	1.80	0.62
3:D:471:GLU:O	3:D:475:LYS:HD2	1.99	0.62
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.80	0.62
3:D:1436:SER:HB3	9:D:9596:HOH:O	1.98	0.62
2:M:15:LEU:HD12	2:M:15:LEU:H	1.64	0.62
5:P:395:GLU:O	5:P:399:GLN:HB2	1.98	0.62
3:D:146:PRO:HG2	9:D:9964:HOH:O	1.99	0.62
3:D:972:LEU:HD23	3:D:973:GLN:N	2.14	0.62
2:M:276:LYS:HB3	9:M:9769:HOH:O	1.99	0.62
3:D:679:ARG:HB2	3:D:682:ASP:OD2	2.00	0.62
1:K:88:ARG:HD2	1:K:88:ARG:O	1.99	0.62
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.28	0.62
1:K:62:LEU:HD12	9:K:3552:HOH:O	1.98	0.62
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.81	0.62
3:D:1399:ASP:HA	9:D:2529:HOH:O	1.99	0.62
2:M:1105:LYS:HG2	9:M:2030:HOH:O	1.99	0.62
9:A:9505:HOH:O	1:B:43:ILE:HD11	1.98	0.62
1:A:189:ARG:HB3	9:A:9613:HOH:O	1.99	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:42:VAL:HG12	2:M:43:GLY:H	1.65	0.62
2:C:724:ARG:NE	2:C:737:LEU:O	2.32	0.62
1:A:74:ASP:HA	9:A:9598:HOH:O	1.99	0.62
2:M:971:LYS:HA	2:M:988:VAL:HA	1.81	0.62
2:M:139:GLN:O	2:M:333:ILE:HA	2.00	0.62
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.81	0.62
1:L:26:GLU:HB3	9:L:3467:HOH:O	1.99	0.62
2:C:580:MET:HB3	2:C:584:GLU:OE2	2.00	0.62
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.81	0.62
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.34	0.62
2:M:770:GLU:HG2	3:N:65:ARG:NH2	2.15	0.62
1:B:184:THR:HB	1:B:194:LYS:NZ	2.15	0.62
1:A:120:VAL:HG13	9:A:9516:HOH:O	1.99	0.62
3:D:117:ASP:HB2	3:D:495:ARG:NH2	2.13	0.62
5:F:316:SER:HB3	5:F:318:GLU:O	2.00	0.62
2:M:640:ARG:HB3	9:M:2138:HOH:O	1.99	0.62
3:D:1342:GLU:HB3	9:D:9499:HOH:O	2.00	0.62
3:N:1127:GLU:HB2	9:N:9636:HOH:O	1.99	0.62
3:D:179:VAL:HB	9:D:2419:HOH:O	1.99	0.62
3:N:450:TYR:HB3	9:N:9938:HOH:O	1.99	0.62
2:C:376:ARG:NH1	5:F:285:GLU:HG2	2.15	0.62
1:L:5:LYS:HA	1:L:5:LYS:NZ	2.15	0.62
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.82	0.62
3:D:572:ARG:HH22	5:F:83:GLN:HG3	1.65	0.62
2:C:398:THR:OG1	2:C:633:GLN:HG3	2.00	0.62
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.29	0.62
3:N:1493:LYS:O	3:N:1497:GLU:HG2	1.99	0.62
2:M:97:ARG:HD2	9:M:9731:HOH:O	2.00	0.62
1:L:64:GLU:HG3	9:L:4182:HOH:O	1.99	0.62
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.29	0.62
2:M:276:LYS:H	2:M:276:LYS:HD2	1.64	0.62
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.35	0.62
3:D:675:ARG:O	3:D:678:GLU:HG2	1.99	0.62
3:N:972:LEU:HD13	9:N:2036:HOH:O	2.00	0.62
3:D:1318:TYR:HB3	9:D:2293:HOH:O	1.99	0.62
2:M:207:LEU:HD23	2:M:211:LEU:HD23	1.81	0.62
3:N:1057:VAL:HG13	3:N:1069:GLU:HB3	1.81	0.62
3:D:473:LEU:HD21	3:D:495:ARG:CZ	2.30	0.62
4:E:41:GLU:HG2	9:E:9566:HOH:O	1.99	0.62
2:C:569:VAL:HG23	2:C:635:THR:HG22	1.81	0.62
2:C:543:ASN:HD22	2:C:562:SER:HB3	1.64	0.62
2:C:702:SER:HB2	9:C:9792:HOH:O	1.99	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:197:SER:CB	3:D:203:ALA:HB3	2.25	0.62
2:M:1095:LEU:HB2	2:M:1097:LEU:HD21	1.81	0.62
2:M:468:ARG:HD3	2:M:485:TYR:HB3	1.81	0.62
5:F:398:ARG:HG2	5:F:402:ASN:ND2	2.14	0.62
3:D:500:ARG:HH22	3:D:1388:ARG:NH1	1.97	0.62
3:N:139:GLY:O	3:N:147:VAL:HB	2.00	0.62
3:D:1432:LYS:HG3	3:D:1433:SER:H	1.65	0.62
3:N:692:GLU:HG2	3:N:720:LEU:HD12	1.81	0.62
2:M:37:GLU:HA	9:M:2385:HOH:O	1.98	0.62
3:N:728:LEU:HD22	3:N:745:MET:SD	2.40	0.61
3:D:41:ARG:NH1	3:D:42:ASP:HB2	2.13	0.61
2:M:157:ARG:HD3	2:M:158:TYR:N	2.15	0.61
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.80	0.61
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.64	0.61
2:M:630:ARG:HA	9:M:9812:HOH:O	2.00	0.61
3:D:877:PRO:O	3:D:880:ILE:HG22	1.99	0.61
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.81	0.61
2:C:178:PRO:HA	9:C:2061:HOH:O	1.99	0.61
2:M:939:ARG:HG3	9:M:9643:HOH:O	2.00	0.61
5:P:342:VAL:HB	9:P:5304:HOH:O	2.00	0.61
3:N:662:GLU:HB2	9:N:2066:HOH:O	2.00	0.61
3:D:1251:ASP:O	3:D:1270:ALA:HB3	1.99	0.61
2:C:298:PHE:HB3	9:C:2271:HOH:O	2.01	0.61
3:D:109:PRO:HD3	9:D:9821:HOH:O	2.00	0.61
2:M:162:ILE:O	2:M:164:PRO:HD3	2.00	0.61
9:M:2401:HOH:O	5:P:409:LYS:HD2	1.98	0.61
3:D:611:GLN:HB2	9:F:9660:HOH:O	2.00	0.61
1:B:33:GLY:O	1:B:195:LEU:HD22	2.00	0.61
2:C:640:ARG:NH1	2:C:642:ARG:HH22	1.98	0.61
3:N:421:LEU:HD12	3:N:435:VAL:HG11	1.81	0.61
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.82	0.61
3:D:141:ILE:HG21	3:D:161:LEU:HD21	1.82	0.61
2:C:84:ARG:NH2	2:C:128:ILE:HD11	2.15	0.61
3:D:1304:LYS:HA	9:D:2093:HOH:O	2.00	0.61
2:M:720:GLU:HG2	2:M:760:SER:HB3	1.83	0.61
2:M:468:ARG:HD2	9:M:2017:HOH:O	1.98	0.61
2:M:198:ARG:NH1	2:M:231:PRO:HG3	2.16	0.61
3:N:957:PRO:HB3	3:N:959:GLU:OE1	2.00	0.61
2:M:178:PRO:HB3	9:M:9661:HOH:O	2.01	0.61
2:M:745:ILE:HG13	9:M:9989:HOH:O	2.00	0.61
3:D:1183:ILE:HG22	9:D:9811:HOH:O	2.00	0.61
2:M:149:THR:HG22	9:M:2395:HOH:O	2.00	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:480:THR:HG22	2:C:482:GLU:H	1.66	0.61
3:N:1236:LEU:HA	9:N:2360:HOH:O	1.98	0.61
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.00	0.61
5:P:166:LEU:O	5:P:171:LYS:HB2	2.00	0.61
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.31	0.61
3:N:428:LYS:HE3	3:N:434:ARG:NH1	2.15	0.61
1:L:54:THR:HG22	1:L:158:ILE:HG13	1.82	0.61
3:D:1154:GLU:HG2	9:D:9504:HOH:O	2.00	0.61
1:B:110:LYS:HG3	9:B:9511:HOH:O	1.99	0.61
3:D:1299:PHE:HB2	9:D:9955:HOH:O	1.98	0.61
5:P:120:THR:HB	9:P:4895:HOH:O	2.00	0.61
5:F:100:VAL:HG21	9:F:9680:HOH:O	2.00	0.61
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.25	0.61
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.16	0.61
2:C:197:LEU:HD12	2:C:207:LEU:HD11	1.81	0.61
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.82	0.61
2:M:431:HIS:CD2	2:M:433:THR:H	2.19	0.61
2:M:569:VAL:HG12	2:M:996:LYS:O	2.01	0.61
3:D:1135:ARG:HD3	9:D:2109:HOH:O	2.01	0.61
5:F:278:LEU:O	5:F:282:LEU:HG	2.00	0.61
3:N:863:VAL:HG23	9:N:9553:HOH:O	2.01	0.61
2:C:511:GLU:O	2:C:526:PRO:HD3	1.99	0.61
3:D:501:ALA:HB2	9:D:9860:HOH:O	1.99	0.61
2:C:62:GLY:O	2:C:103:LYS:HG3	2.00	0.61
2:C:769:PRO:HG3	9:F:9763:HOH:O	1.99	0.61
2:C:108:ILE:H	2:C:108:ILE:HD12	1.65	0.61
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.82	0.61
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.83	0.61
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.81	0.61
3:D:668:PRO:HB2	9:F:9602:HOH:O	2.00	0.61
2:M:707:ARG:NH1	2:M:709:GLU:HB2	2.15	0.61
2:M:139:GLN:HE21	2:M:334:ARG:HD2	1.64	0.61
3:N:983:LEU:HA	3:N:987:GLU:OE2	2.01	0.61
5:P:291:ILE:HB	9:P:3811:HOH:O	1.99	0.61
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.82	0.61
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.00	0.61
2:C:543:ASN:ND2	2:C:562:SER:HB3	2.16	0.61
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.82	0.61
3:N:618:LEU:HD22	9:N:2165:HOH:O	2.00	0.61
2:C:318:PRO:HD2	9:C:2113:HOH:O	2.00	0.61
2:M:148:PHE:HB3	9:M:9990:HOH:O	2.00	0.61
3:N:15:PRO:HA	3:N:18:ILE:HG12	1.83	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:131:VAL:HG13	5:F:178:ARG:HD3	1.81	0.61
3:D:760:ARG:HB2	9:E:9559:HOH:O	2.00	0.61
3:N:950:GLY:H	3:N:953:ASP:HB2	1.66	0.61
2:M:140:ILE:HG22	2:M:333:ILE:HG13	1.83	0.61
3:N:984:THR:HB	3:N:987:GLU:OE1	2.01	0.61
5:F:361:LEU:HD23	5:F:362:SER:N	2.14	0.61
2:M:1017:THR:HG23	9:P:5990:HOH:O	2.01	0.61
3:D:1412:LYS:HE3	9:D:2567:HOH:O	2.00	0.61
3:D:807:ALA:HB2	3:D:833:GLU:OE1	2.01	0.61
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.82	0.61
3:N:535:PHE:HB2	9:P:5489:HOH:O	1.99	0.61
5:P:372:ARG:HD2	9:P:5354:HOH:O	2.01	0.61
3:N:1137:ARG:HA	3:N:1140:ILE:HD12	1.81	0.61
4:O:82:GLU:HG2	9:O:5722:HOH:O	2.01	0.61
3:N:45:PHE:HD1	3:N:86:ARG:HH22	1.48	0.61
3:N:82:LYS:HD3	9:N:2443:HOH:O	2.01	0.61
3:N:584:ASN:HB2	3:N:602:SER:OG	2.00	0.61
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.29	0.61
3:D:28:LYS:HD3	3:D:41:ARG:CZ	2.30	0.61
2:C:498:GLN:O	2:C:501:THR:HG23	2.00	0.61
2:M:773:LEU:O	2:M:777:ILE:HG13	2.01	0.61
2:M:439:CYS:HB2	2:M:541:SER:HB3	1.82	0.61
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.82	0.61
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.83	0.61
3:D:163:TYR:HB3	9:D:2435:HOH:O	2.01	0.61
2:M:510:ALA:HB3	2:M:513:VAL:HG23	1.81	0.61
3:D:964:LEU:HD22	9:D:9566:HOH:O	2.01	0.61
3:N:543:LEU:HD23	9:N:9696:HOH:O	2.01	0.61
3:D:601:ARG:HD2	5:F:328:PHE:CE1	2.33	0.61
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.82	0.61
2:C:342:ASP:O	2:C:346:VAL:HG23	2.00	0.61
1:A:58:ILE:HB	1:A:61:VAL:HB	1.83	0.61
3:N:770:LEU:HB2	9:N:9545:HOH:O	2.01	0.61
2:M:611:ILE:HD11	2:M:641:PRO:HG3	1.82	0.61
2:C:377:PRO:HA	9:C:2397:HOH:O	1.99	0.61
2:M:806:LEU:HB2	9:M:9775:HOH:O	2.01	0.61
2:C:260:LEU:HB2	2:C:291:ALA:HB1	1.83	0.60
3:N:185:VAL:HG12	3:N:191:LEU:HD21	1.83	0.60
2:C:789:SER:O	2:C:791:ARG:HG2	2.01	0.60
1:L:101:LEU:HG	1:L:114:PHE:HA	1.81	0.60
4:O:21:VAL:O	4:O:25:LYS:HG3	1.99	0.60
1:A:20:TYR:HD2	1:A:21:GLY:H	1.48	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:838:ARG:HB2	9:N:9806:HOH:O	2.01	0.60
3:D:438:ASP:HB2	9:D:9897:HOH:O	2.01	0.60
3:N:659:LYS:HE3	3:N:663:GLU:OE1	2.00	0.60
2:M:321:GLU:HB3	9:M:9537:HOH:O	2.00	0.60
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.66	0.60
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.82	0.60
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.82	0.60
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.36	0.60
3:D:61:GLY:CA	3:D:64:LYS:HE3	2.31	0.60
1:L:36:LEU:O	1:L:39:PRO:HD2	2.01	0.60
2:M:772:ARG:HG3	2:M:773:LEU:N	2.15	0.60
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.01	0.60
5:P:225:GLU:HB3	9:P:3420:HOH:O	2.00	0.60
5:P:117:SER:HA	9:P:4895:HOH:O	2.01	0.60
2:M:841:ASN:ND2	2:M:844:GLY:H	1.99	0.60
4:O:50:THR:HB	9:O:3763:HOH:O	2.00	0.60
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.40	0.60
1:L:103:ALA:HB1	1:L:107:LYS:HD2	1.83	0.60
5:P:209:PHE:O	5:P:213:ILE:HG13	2.00	0.60
3:D:728:LEU:HD13	3:D:745:MET:HE1	1.83	0.60
3:D:817:GLU:HG2	3:D:840:LYS:HZ2	1.66	0.60
1:L:101:LEU:HD21	1:L:113:ASP:HB3	1.83	0.60
3:N:139:GLY:H	3:N:147:VAL:HG21	1.65	0.60
1:L:110:LYS:HG3	9:L:5936:HOH:O	2.00	0.60
5:F:403:LYS:HA	5:F:403:LYS:NZ	2.16	0.60
4:O:60:ALA:O	4:O:63:TRP:HB2	2.01	0.60
3:D:1084:THR:HG21	9:D:2388:HOH:O	2.02	0.60
2:C:424:GLY:HA3	9:C:2382:HOH:O	2.02	0.60
3:D:28:LYS:HB2	3:D:41:ARG:HD2	1.83	0.60
3:D:455:ARG:HH11	3:D:455:ARG:HG2	1.65	0.60
2:M:137:VAL:HG11	2:M:393:GLN:NE2	2.15	0.60
5:F:417:LYS:HA	9:F:9602:HOH:O	2.01	0.60
2:C:575:GLN:H	2:C:667:ALA:HB1	1.65	0.60
2:M:358:ARG:HH22	2:M:374:ASN:HB3	1.66	0.60
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.30	0.60
1:A:5:LYS:O	1:A:8:ALA:HB2	2.01	0.60
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.30	0.60
3:N:829:VAL:HG23	9:N:2131:HOH:O	2.01	0.60
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.81	0.60
2:C:332:ARG:HA	2:C:465:GLY:O	2.02	0.60
2:C:431:HIS:H	2:C:434:HIS:CE1	2.19	0.60
3:N:130:SER:HB3	3:N:132:TYR:CE1	2.36	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:679:PHE:HD2	2:M:680:ASP:H	1.49	0.60
2:C:244:PRO:HG2	2:C:246:ASP:OD2	2.01	0.60
3:N:1220:ALA:O	3:N:1224:VAL:HG23	2.00	0.60
2:M:887:GLU:HB3	9:M:9573:HOH:O	2.01	0.60
3:N:141:ILE:HG12	3:N:449:SER:HA	1.84	0.60
2:M:1016:ILE:HG23	3:N:526:PRO:HG2	1.83	0.60
2:M:643:VAL:HG22	2:M:647:GLN:HE22	1.65	0.60
1:B:212:ASN:O	1:B:215:VAL:HG22	2.01	0.60
3:D:105:VAL:HG21	3:D:128:TYR:HE2	1.66	0.60
1:L:184:THR:HG23	1:L:192:LEU:HB3	1.83	0.60
2:M:944:LEU:HD21	2:M:963:LEU:HD22	1.84	0.60
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.84	0.60
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.36	0.60
2:C:122:THR:HA	9:C:9789:HOH:O	2.00	0.60
3:N:210:ARG:NH1	3:N:398:ALA:HB3	2.07	0.60
3:N:1212:ALA:HB3	3:N:1213:ARG:HH21	1.66	0.60
3:N:1428:ALA:O	3:N:1431:THR:HG22	2.02	0.60
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.28	0.60
5:F:317:LEU:O	5:F:329:TYR:HB3	2.01	0.60
2:M:674:VAL:HG23	2:M:869:VAL:O	2.01	0.60
3:N:782:SER:O	3:N:786:ILE:HG13	2.02	0.60
3:N:704:ARG:CG	3:N:736:PHE:HB3	2.30	0.60
2:M:571:LEU:HG	2:M:700:TYR:HA	1.83	0.60
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.83	0.60
3:N:1459:LEU:HD22	3:N:1465:ASN:HD22	1.66	0.60
3:N:65:ARG:HB3	9:N:9605:HOH:O	2.01	0.60
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.82	0.60
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.83	0.60
1:B:80:LEU:HD23	3:D:867:ARG:NH1	2.17	0.60
9:C:9676:HOH:O	3:D:621:LYS:HE2	2.02	0.60
3:N:73:CYS:HB3	3:N:76:CYS:O	2.02	0.60
2:M:752:GLY:H	2:M:792:VAL:HB	1.65	0.60
2:C:513:VAL:HG13	9:C:9526:HOH:O	2.02	0.60
2:M:609:ASN:HB2	9:M:9673:HOH:O	2.02	0.60
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.17	0.60
2:C:882:LEU:HD22	3:D:951:ILE:CD1	2.32	0.60
2:M:256:TYR:CE1	2:M:293:PHE:HB2	2.37	0.60
2:M:900:ARG:HD2	9:M:9963:HOH:O	2.02	0.60
4:O:76:GLY:N	4:O:79:LEU:HD22	2.16	0.60
2:C:798:GLY:H	2:C:827:VAL:CG1	2.14	0.60
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.31	0.60
1:L:41:ARG:HG2	1:L:177:VAL:HG21	1.84	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:212:ASN:O	1:L:215:VAL:HG22	2.01	0.60
4:O:36:LYS:HB2	9:O:6252:HOH:O	2.01	0.60
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.67	0.60
3:N:964:LEU:HD22	3:N:1058:ARG:NH1	2.16	0.60
2:C:269:LEU:HD12	2:C:288:ARG:N	2.16	0.60
2:C:740:GLU:HB2	9:C:2377:HOH:O	2.01	0.60
2:M:1115:LEU:HB3	3:N:85:VAL:HG12	1.83	0.60
2:C:1086:ARG:HB3	2:C:1112:PHE:HE2	1.66	0.60
3:D:972:LEU:O	3:D:976:GLN:HG3	2.01	0.60
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.84	0.60
3:D:903:ASP:HA	9:D:9918:HOH:O	2.01	0.60
3:N:831:GLY:HA3	9:N:9512:HOH:O	2.02	0.60
3:N:1491:THR:O	3:N:1495:ILE:HD13	2.00	0.60
3:D:1082:ALA:O	3:D:1086:LEU:HD13	2.00	0.60
3:D:486:ARG:HH21	3:D:489:ARG:NH2	1.99	0.60
1:B:123:MET:C	1:B:125:PRO:HD3	2.22	0.60
3:N:631:ILE:O	3:N:632:VAL:HG23	2.02	0.60
2:C:470:PRO:HG2	2:C:538:GLN:OE1	2.02	0.60
1:B:38:ASN:OD1	2:C:979:THR:HA	2.02	0.60
2:C:395:LYS:HE3	2:C:407:LYS:HD2	1.83	0.60
5:P:415:THR:HB	9:P:3726:HOH:O	2.01	0.60
9:C:9634:HOH:O	3:D:630:VAL:HG23	2.01	0.60
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.83	0.60
1:A:213:GLN:O	1:A:217:ILE:HG13	2.02	0.60
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.83	0.60
3:D:810:GLU:HA	3:D:813:LEU:HD23	1.84	0.60
3:N:215:TYR:HB2	3:N:389:GLU:HA	1.84	0.60
1:K:149:GLY:O	1:K:171:PHE:HB2	2.02	0.60
2:M:776:SER:HB2	9:M:9826:HOH:O	2.01	0.60
2:C:858:MET:SD	2:C:867:VAL:HG23	2.42	0.60
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.42	0.60
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.83	0.60
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.37	0.60
3:D:569:ASN:OD1	5:F:80:PRO:HB3	2.02	0.60
3:D:965:GLU:HA	3:D:968:ASP:HB2	1.84	0.60
3:N:1128:VAL:HG22	9:N:9749:HOH:O	2.00	0.60
2:C:124:ASP:HB3	2:C:592:LEU:HD12	1.82	0.60
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.37	0.60
3:N:440:VAL:HG13	9:N:2153:HOH:O	2.01	0.60
3:D:1087:ARG:O	3:D:1091:SER:HB3	2.02	0.59
3:N:543:LEU:O	3:N:546:ARG:HB2	2.02	0.59
2:C:329:GLY:N	2:C:488:ALA:HB3	2.17	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:36:LEU:O	1:A:39:PRO:HD2	2.02	0.59
3:D:131:LYS:HB3	3:D:456:MET:HE3	1.83	0.59
2:C:1060:ILE:HD12	2:C:1063:ARG:NH1	2.15	0.59
3:D:61:GLY:HA3	3:D:64:LYS:HE3	1.84	0.59
3:N:1389:LEU:HD12	3:N:1390:LEU:H	1.67	0.59
2:M:66:LEU:HD22	2:M:372:LEU:HD23	1.83	0.59
2:C:1000:MET:SD	2:C:1001:VAL:HG22	2.42	0.59
1:K:213:GLN:O	1:K:217:ILE:HG13	2.02	0.59
3:N:536:ALA:HA	5:P:315:VAL:O	2.02	0.59
3:D:844:ALA:O	3:D:867:ARG:HB3	2.01	0.59
2:C:1043:TYR:HE2	3:D:768:ASN:OD1	1.85	0.59
2:M:880:MET:HG2	3:N:1038:LEU:HD21	1.84	0.59
4:O:25:LYS:HA	4:O:28:GLN:NE2	2.17	0.59
3:N:898:GLU:HB2	3:N:921:ARG:NH2	2.16	0.59
1:A:150:TYR:HE1	2:C:696:LYS:HA	1.67	0.59
2:M:500:ASN:HD21	3:N:1067:VAL:CG2	2.15	0.59
2:M:1024:LYS:HE2	9:M:9718:HOH:O	2.02	0.59
3:D:1077:ALA:HB2	9:D:9550:HOH:O	2.02	0.59
1:L:14:ARG:HB2	9:L:5263:HOH:O	2.02	0.59
5:F:352:GLU:O	5:F:356:LYS:HG3	2.02	0.59
2:C:312:ALA:HB1	9:C:2264:HOH:O	2.03	0.59
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.37	0.59
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.84	0.59
3:D:1428:ALA:O	3:D:1431:THR:HG23	2.02	0.59
3:D:703:ASN:ND2	3:D:704:ARG:H	2.00	0.59
1:K:218:LEU:O	1:K:222:LEU:HD23	2.02	0.59
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.02	0.59
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.37	0.59
2:C:200:LEU:HB2	9:C:9888:HOH:O	2.02	0.59
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.30	0.59
5:P:358:LEU:HD11	5:P:370:LYS:HZ2	1.66	0.59
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.38	0.59
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.83	0.59
3:D:863:VAL:HA	9:D:9541:HOH:O	2.02	0.59
1:L:74:ASP:O	1:L:78:ILE:HG13	2.03	0.59
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.83	0.59
3:D:98:PRO:HD3	9:D:9723:HOH:O	2.03	0.59
3:D:1243:THR:HB	3:D:1253:THR:HG22	1.83	0.59
3:D:998:GLU:HA	9:D:9510:HOH:O	2.00	0.59
2:C:1015:LEU:HD12	9:C:9604:HOH:O	2.01	0.59
9:K:3920:HOH:O	2:M:608:GLY:HA3	2.02	0.59
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.84	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:621:VAL:HG13	9:M:9824:HOH:O	2.02	0.59
3:D:75:ARG:HA	9:D:9977:HOH:O	2.02	0.59
1:B:84:GLU:HG2	1:B:127:LEU:HD11	1.84	0.59
3:N:1211:MET:SD	3:N:1213:ARG:HD2	2.41	0.59
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.38	0.59
3:N:1221:VAL:HB	9:N:9633:HOH:O	2.01	0.59
5:F:402:ASN:O	5:F:406:ARG:HG3	2.01	0.59
2:M:840:ALA:HB1	9:M:9563:HOH:O	2.01	0.59
3:D:813:LEU:O	3:D:817:GLU:HB2	2.02	0.59
2:C:583:LEU:O	2:C:587:VAL:HG23	2.01	0.59
1:B:140:MET:HG2	9:B:9655:HOH:O	2.02	0.59
1:K:11:PHE:CD1	1:L:225:PHE:HA	2.37	0.59
3:D:1152:GLU:CD	3:D:1159:ARG:HH12	2.06	0.59
1:L:123:MET:C	1:L:125:PRO:HD3	2.22	0.59
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.83	0.59
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.17	0.59
2:M:605:LYS:CB	2:M:610:ARG:HH12	2.03	0.59
2:C:274:ARG:HB2	2:C:285:LEU:HD13	1.84	0.59
2:C:102:HIS:HB2	2:C:106:GLY:O	2.02	0.59
3:D:51:GLY:HA3	9:D:9784:HOH:O	2.02	0.59
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.66	0.59
2:C:18:LEU:HD21	2:C:542:VAL:HG11	1.82	0.59
2:M:89:THR:HA	2:M:129:ILE:O	2.03	0.59
2:C:595:LEU:HD11	9:C:9740:HOH:O	2.02	0.59
3:D:530:VAL:HG11	9:F:9549:HOH:O	2.01	0.59
3:N:950:GLY:O	3:N:953:ASP:N	2.31	0.59
3:N:975:GLU:HA	9:N:9710:HOH:O	2.03	0.59
3:N:1403:LEU:HD23	3:N:1407:LEU:HD22	1.83	0.59
1:L:90:LEU:HB3	9:L:4208:HOH:O	2.02	0.59
2:M:499:ALA:HA	9:M:2087:HOH:O	2.01	0.59
3:D:1119:SER:HA	3:D:1186:VAL:O	2.02	0.59
3:N:1176:LYS:HD3	3:N:1176:LYS:O	2.02	0.59
3:N:8:VAL:HG11	9:N:9848:HOH:O	2.01	0.59
2:C:284:ARG:HG2	2:C:285:LEU:H	1.68	0.59
3:D:528:VAL:HG23	3:D:536:ALA:O	2.03	0.59
2:M:141:HIS:CE1	2:M:334:ARG:HE	2.20	0.59
2:M:333:ILE:HD13	2:M:467:ILE:HG13	1.85	0.59
2:M:1042:ALA:HB3	3:N:710:ARG:HB3	1.84	0.59
3:D:1420:LEU:HD12	3:D:1421:LEU:H	1.67	0.59
1:A:226:SER:O	1:A:228:PRO:HD3	2.01	0.59
2:M:617:ASP:HB2	9:M:2181:HOH:O	2.03	0.59
3:N:546:ARG:HA	9:N:9543:HOH:O	2.01	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:573:MET:HG2	9:N:9529:HOH:O	2.01	0.59
2:M:757:GLY:HA2	2:M:789:SER:HB3	1.85	0.59
2:C:383:ARG:HB2	2:C:383:ARG:CZ	2.31	0.59
2:M:689:VAL:CG2	2:M:870:ILE:HB	2.32	0.59
4:E:48:MET:N	4:E:54:LEU:HB2	2.17	0.59
3:D:793:THR:HG22	3:D:879:ARG:HA	1.84	0.59
1:L:5:LYS:O	1:L:8:ALA:HB2	2.02	0.59
1:L:148:VAL:HG22	9:L:4917:HOH:O	2.02	0.59
2:M:541:SER:HB2	9:M:9944:HOH:O	2.03	0.59
2:C:276:LYS:O	2:C:280:LYS:HB2	2.02	0.59
3:N:884:ARG:HB2	9:N:2140:HOH:O	2.02	0.59
2:C:8:ARG:NH1	2:C:8:ARG:HB2	2.18	0.59
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.32	0.59
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.02	0.59
3:D:1124:GLN:HE21	3:D:1135:ARG:HA	1.67	0.59
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.84	0.59
3:D:139:GLY:O	3:D:147:VAL:HB	2.02	0.59
1:K:9:PRO:HD2	1:L:224:TYR:CE1	2.38	0.59
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.85	0.59
3:D:857:ILE:HA	9:D:2193:HOH:O	2.02	0.59
3:N:59:ALA:HA	9:N:9941:HOH:O	2.02	0.59
5:P:350:LEU:HA	9:P:3715:HOH:O	2.02	0.59
2:C:6:PHE:HB2	9:C:2024:HOH:O	2.01	0.59
5:F:256:ARG:CZ	5:F:260:ILE:HD12	2.32	0.59
2:M:56:GLU:CG	2:M:64:LEU:HD23	2.33	0.59
1:K:36:LEU:O	1:K:39:PRO:HD2	2.03	0.59
4:O:48:MET:N	4:O:54:LEU:HB2	2.17	0.59
3:N:172:PRO:HD2	3:N:389:GLU:O	2.03	0.59
3:N:441:ARG:O	3:N:443:VAL:HG23	2.02	0.59
4:E:87:LYS:HB2	9:E:9519:HOH:O	2.01	0.59
3:N:820:GLU:HG2	3:N:825:ALA:O	2.03	0.59
3:N:1110:ALA:HB3	9:N:9637:HOH:O	2.01	0.59
2:C:874:LEU:HD21	3:D:787:LEU:CD2	2.32	0.59
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.84	0.59
2:M:129:ILE:HA	9:M:9795:HOH:O	2.02	0.59
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.68	0.59
2:M:437:ARG:NH1	2:M:488:ALA:HA	2.17	0.59
3:D:817:GLU:HG2	3:D:840:LYS:NZ	2.17	0.59
2:C:376:ARG:HH22	5:F:285:GLU:HB3	1.67	0.59
2:C:708:TYR:H	2:C:708:TYR:HD1	1.49	0.59
4:O:45:ARG:O	4:O:47:LYS:HE3	2.03	0.59
1:K:94:LEU:HD11	1:K:119:ASP:HB3	1.84	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:137:ARG:NH1	1:L:137:ARG:HB3	2.18	0.59
2:M:549:PHE:CD2	2:M:886:LEU:HB3	2.38	0.59
1:B:216:GLU:HB2	9:B:9598:HOH:O	2.03	0.59
1:K:2:LEU:HD22	9:K:5005:HOH:O	2.03	0.59
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.85	0.58
2:C:536:PRO:HD2	2:C:537:LYS:HD2	1.85	0.58
5:P:385:GLU:O	5:P:397:ILE:HD13	2.03	0.58
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.02	0.58
3:D:493:ARG:NH1	3:D:1390:LEU:HB2	2.17	0.58
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.84	0.58
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.83	0.58
3:N:1364:HIS:ND1	3:N:1366:LYS:HB2	2.18	0.58
2:C:750:LYS:HD2	9:C:9787:HOH:O	2.02	0.58
3:N:422:ALA:H	3:N:427:VAL:CG1	2.16	0.58
3:D:187:LYS:HD3	9:D:9662:HOH:O	2.01	0.58
2:C:975:TYR:HA	2:C:982:PRO:HA	1.84	0.58
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.31	0.58
3:D:908:LYS:CG	3:D:1027:GLY:HA3	2.33	0.58
2:C:655:LEU:HB2	9:C:9812:HOH:O	2.02	0.58
3:N:1122:LEU:HD11	3:N:1186:VAL:HG23	1.84	0.58
2:C:1054:THR:HG22	2:C:1059:ASP:OD2	2.03	0.58
2:C:993:PHE:CE1	2:C:995:MET:HG2	2.37	0.58
5:P:419:ARG:HG3	5:P:420:ASP:H	1.68	0.58
3:N:1492:LEU:HD12	3:N:1493:LYS:NZ	2.18	0.58
5:F:404:ALA:HB3	9:F:9613:HOH:O	2.01	0.58
3:D:1288:GLU:OE2	3:D:1289:LYS:HE3	2.03	0.58
1:L:16:GLN:HB2	9:L:4742:HOH:O	2.01	0.58
5:P:96:LEU:HB2	9:P:5295:HOH:O	2.03	0.58
2:C:431:HIS:CD2	2:C:433:THR:H	2.21	0.58
3:D:601:ARG:NH2	3:D:612:GLY:HA2	2.19	0.58
2:M:242:LEU:HD23	2:M:244:PRO:HD3	1.85	0.58
3:D:671:LYS:HG2	9:F:9580:HOH:O	2.03	0.58
3:N:984:THR:H	3:N:987:GLU:CD	2.06	0.58
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.84	0.58
5:F:247:ILE:HG22	5:F:251:ILE:HD11	1.85	0.58
1:B:65:PHE:CD1	3:D:813:LEU:HD22	2.38	0.58
1:K:101:LEU:HD21	1:K:113:ASP:HB3	1.85	0.58
3:D:101:HIS:CE1	3:D:582:LEU:HD22	2.38	0.58
2:C:732:ALA:HB3	9:C:9678:HOH:O	2.04	0.58
3:D:834:THR:HB	3:D:838:ARG:HB3	1.85	0.58
2:M:500:ASN:HB3	9:M:9721:HOH:O	2.03	0.58
3:N:440:VAL:HG23	9:N:9588:HOH:O	2.04	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:86:LYS:HE3	2:M:813:VAL:HG12	1.85	0.58
1:B:22:GLU:HG2	1:B:198:ARG:HG2	1.85	0.58
9:M:9760:HOH:O	3:N:1047:LYS:HD3	2.03	0.58
2:C:203:ASP:HB2	9:C:2302:HOH:O	2.03	0.58
2:C:698:ASP:HA	9:C:9547:HOH:O	2.04	0.58
2:C:142:ARG:NH1	2:C:325:ILE:HG12	2.18	0.58
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.85	0.58
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.31	0.58
3:D:148:GLU:HA	9:D:2669:HOH:O	2.03	0.58
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.17	0.58
9:D:2680:HOH:O	5:F:375:LEU:HD21	2.02	0.58
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.85	0.58
3:D:1136:LYS:HA	9:D:2534:HOH:O	2.03	0.58
3:D:1129:THR:HA	9:D:9663:HOH:O	2.03	0.58
3:D:1129:THR:HG22	9:D:2414:HOH:O	2.02	0.58
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.32	0.58
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.85	0.58
5:P:269:ASN:HB3	5:P:273:ARG:HH21	1.68	0.58
2:C:630:ARG:HA	2:C:705:ILE:HD11	1.85	0.58
2:M:204:GLN:HB3	9:M:9981:HOH:O	2.03	0.58
4:O:43:GLU:HG2	4:O:44:GLU:H	1.67	0.58
3:N:422:ALA:HB1	5:P:178:ARG:NH1	2.17	0.58
2:M:890:LEU:HA	2:M:914:ILE:CD1	2.33	0.58
5:F:393:THR:HG22	5:F:394:ARG:H	1.69	0.58
2:C:145:GLY:HA3	9:C:2408:HOH:O	2.04	0.58
5:F:410:TYR:HD2	5:F:414:ARG:HH22	1.50	0.58
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.85	0.58
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.84	0.58
3:N:111:LYS:HZ1	3:N:498:VAL:HG12	1.67	0.58
1:B:5:LYS:O	1:B:8:ALA:HB2	2.04	0.58
2:C:104:ASP:HB2	9:C:9663:HOH:O	2.03	0.58
2:M:973:VAL:O	2:M:974:LEU:HD12	2.03	0.58
3:D:1087:ARG:HA	3:D:1090:ASP:HB2	1.86	0.58
1:B:86:VAL:HA	9:B:9563:HOH:O	2.03	0.58
5:P:155:THR:HA	5:P:158:GLU:OE2	2.04	0.58
2:C:244:PRO:CD	2:C:245:GLY:H	2.15	0.58
2:M:672:VAL:CG2	2:M:868:ASP:HB2	2.33	0.58
3:N:470:LEU:HD23	9:N:9663:HOH:O	2.02	0.58
3:D:1279:GLY:O	3:D:1318:TYR:HA	2.03	0.58
2:M:525:SER:OG	2:M:528:GLU:HG3	2.04	0.58
5:P:291:ILE:O	5:P:295:MET:HB2	2.04	0.58
3:D:574:LEU:O	3:D:578:VAL:HG23	2.03	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:804:LEU:HD23	3:D:804:LEU:H	1.68	0.58
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.84	0.58
3:D:788:GLY:O	3:D:792:ILE:HG22	2.02	0.58
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.38	0.58
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.85	0.58
3:D:380:GLU:O	3:D:382:GLU:N	2.36	0.58
3:N:1441:GLN:NE2	3:N:1442:ASN:H	2.00	0.58
2:M:1055:LEU:HD22	2:M:1066:ALA:HB2	1.84	0.58
2:C:469:THR:HG23	2:C:470:PRO:HD2	1.84	0.58
2:M:244:PRO:HG2	2:M:246:ASP:OD2	2.04	0.58
5:P:260:ILE:HD11	5:P:310:ILE:CG2	2.32	0.58
3:D:584:ASN:HD22	3:D:584:ASN:C	2.07	0.58
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.07	0.58
2:M:838:LYS:HD2	2:M:846:LYS:HZ3	1.69	0.58
2:M:49:ARG:HH11	2:M:49:ARG:HB2	1.68	0.58
2:C:15:LEU:HD13	2:C:583:LEU:HD11	1.85	0.58
2:M:705:ILE:HD11	9:M:9812:HOH:O	2.03	0.58
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.39	0.58
1:A:2:LEU:HB2	9:A:9681:HOH:O	2.03	0.58
2:C:826:TYR:HD1	9:C:9672:HOH:O	1.85	0.58
5:P:294:ALA:HB2	9:P:3431:HOH:O	2.02	0.58
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.84	0.58
3:N:616:GLN:OE1	3:N:619:LEU:HB3	2.03	0.58
3:N:805:GLU:HB3	9:N:9995:HOH:O	2.02	0.58
3:D:178:LEU:CD2	3:D:199:LEU:H	2.17	0.58
2:C:497:ALA:HA	2:C:515:ALA:HA	1.86	0.58
2:C:981:GLU:HG3	9:C:9552:HOH:O	2.04	0.58
2:C:945:ARG:NH1	2:C:945:ARG:HB3	2.16	0.58
2:M:145:GLY:HA3	9:M:9769:HOH:O	2.02	0.58
3:N:119:SER:CB	3:N:123:LEU:HB2	2.34	0.58
3:N:1124:GLN:N	3:N:1133:ARG:O	2.36	0.58
3:N:1119:SER:HA	3:N:1186:VAL:O	2.03	0.58
2:M:772:ARG:HB2	2:M:772:ARG:NH1	2.19	0.58
2:M:49:ARG:HD3	9:M:9640:HOH:O	2.01	0.58
3:N:969:ARG:O	3:N:972:LEU:HB3	2.04	0.58
3:D:1372:VAL:HA	3:D:1375:MET:SD	2.44	0.58
2:M:27:ARG:HD3	9:M:9741:HOH:O	2.03	0.58
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.84	0.58
2:M:1050:GLN:HG2	2:M:1079:PRO:HG2	1.85	0.58
1:L:81:ASN:O	1:L:84:GLU:HB3	2.04	0.58
2:C:526:PRO:HB2	9:C:9595:HOH:O	2.02	0.58
9:N:9535:HOH:O	5:P:326:ASP:HB2	2.03	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:92:PRO:HA	1:B:146:ARG:NH1	2.18	0.58
2:C:1110:ASP:HA	9:C:9781:HOH:O	2.04	0.58
3:D:211:VAL:HG22	3:D:393:ILE:HG23	1.85	0.58
2:C:158:TYR:CE1	2:C:313:LEU:HG	2.38	0.58
2:C:1003:ASP:HA	9:C:9634:HOH:O	2.04	0.58
3:D:1135:ARG:NH1	3:D:1357:ARG:HH22	2.02	0.58
5:F:138:SER:O	5:F:141:VAL:HG12	2.04	0.58
3:N:535:PHE:CB	5:P:314:PRO:HB3	2.34	0.58
3:D:139:GLY:H	3:D:147:VAL:HG21	1.69	0.58
2:M:841:ASN:OD1	2:M:845:ASN:HB3	2.04	0.58
5:F:102:LEU:O	5:F:106:VAL:HG23	2.04	0.58
9:M:2376:HOH:O	3:N:1079:LYS:HB2	2.04	0.58
1:B:14:ARG:HD2	9:B:9709:HOH:O	2.04	0.58
3:N:421:LEU:HD11	3:N:437:VAL:HG22	1.85	0.58
2:C:1115:LEU:HB3	3:D:85:VAL:HG13	1.85	0.58
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.33	0.58
3:N:760:ARG:HH21	4:O:3:GLU:CD	2.07	0.58
3:N:129:PHE:CE2	3:N:587:ARG:HD3	2.38	0.58
2:M:755:LEU:HB2	2:M:790:LEU:HD22	1.85	0.58
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.86	0.58
3:D:131:LYS:HA	3:D:456:MET:HG3	1.85	0.58
2:M:700:TYR:HB3	9:M:9662:HOH:O	2.04	0.58
2:M:846:LYS:HE3	9:M:9651:HOH:O	2.03	0.58
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.34	0.58
3:D:476:GLU:HG2	9:D:9483:HOH:O	2.02	0.58
1:B:47:SER:O	1:B:49:PRO:N	2.36	0.58
3:D:1198:TYR:OH	3:D:1432:LYS:HG2	2.04	0.58
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.38	0.58
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.85	0.58
2:C:122:THR:HB	2:C:124:ASP:OD1	2.03	0.58
3:N:701:LEU:HD23	3:N:748:HIS:HB2	1.85	0.58
3:N:1031:ASN:HB3	3:N:1034:GLN:CD	2.24	0.58
1:A:54:THR:HG22	1:A:158:ILE:HG13	1.85	0.58
2:M:913:GLU:HG3	9:M:9616:HOH:O	2.04	0.58
2:M:629:TYR:HB2	2:M:637:LEU:HG	1.86	0.57
3:N:105:VAL:HG13	3:N:124:GLU:OE1	2.03	0.57
4:E:26:ARG:HG2	4:E:67:GLU:OE1	2.03	0.57
5:F:136:LEU:HD12	5:F:137:GLY:N	2.19	0.57
3:N:1475:GLY:O	3:N:1478:SER:HB3	2.04	0.57
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.85	0.57
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.86	0.57
2:M:191:PHE:CZ	2:M:196:LEU:HB2	2.39	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:493:ARG:HH12	3:D:1390:LEU:H	1.51	0.57
3:N:1280:VAL:HG22	9:N:9926:HOH:O	2.04	0.57
3:D:483:HIS:ND1	3:D:483:HIS:N	2.52	0.57
4:O:70:THR:HG21	4:O:72:ARG:HH21	1.69	0.57
1:L:226:SER:O	1:L:228:PRO:HD3	2.03	0.57
2:C:802:ARG:HB2	9:C:9893:HOH:O	2.04	0.57
3:D:36:THR:C	3:D:38:LYS:H	2.08	0.57
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.85	0.57
1:K:67:THR:HG21	2:M:609:ASN:HD21	1.69	0.57
1:B:86:VAL:CG1	1:B:124:ASN:HD22	2.10	0.57
2:C:108:ILE:HD11	2:C:365:ASP:OD2	2.04	0.57
1:A:133:GLU:HB2	9:C:2067:HOH:O	2.04	0.57
5:P:373:LYS:HD3	5:P:378:GLY:C	2.25	0.57
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	2.03	0.57
3:N:181:ASP:OD2	3:N:199:LEU:HB2	2.05	0.57
3:N:972:LEU:HD23	3:N:973:GLN:N	2.18	0.57
3:D:1376:MET:SD	3:D:1421:LEU:HD12	2.44	0.57
3:N:480:GLU:O	3:N:484:PRO:HD2	2.04	0.57
2:C:720:GLU:HA	2:C:759:THR:O	2.04	0.57
3:D:1293:PHE:CD2	3:D:1302:GLU:HA	2.38	0.57
1:A:158:ILE:HD13	9:A:9582:HOH:O	2.04	0.57
1:A:79:ILE:HD11	9:A:9511:HOH:O	2.04	0.57
1:A:80:LEU:HD22	9:A:9571:HOH:O	2.02	0.57
2:C:662:GLU:HG3	9:C:2147:HOH:O	2.04	0.57
3:N:408:GLU:HG3	9:N:9853:HOH:O	2.04	0.57
3:N:625:TYR:O	3:N:749:VAL:HG23	2.05	0.57
2:C:99:GLN:HB2	9:C:2236:HOH:O	2.04	0.57
3:N:572:ARG:NH2	5:P:83:GLN:HG3	2.13	0.57
5:P:408:LEU:O	5:P:412:GLU:HG2	2.03	0.57
2:C:1005:MET:HB2	3:D:629:SER:HB2	1.85	0.57
3:D:704:ARG:HG2	3:D:736:PHE:HB3	1.84	0.57
1:K:156:HIS:HD2	1:K:157:GLY:H	1.50	0.57
2:M:56:GLU:HG2	2:M:64:LEU:HD23	1.85	0.57
1:A:222:LEU:HD11	1:B:218:LEU:HD23	1.85	0.57
3:N:804:LEU:HG	9:N:9546:HOH:O	2.04	0.57
3:D:477:LEU:HD23	9:D:9483:HOH:O	2.03	0.57
4:E:17:TYR:CD2	4:E:17:TYR:N	2.71	0.57
5:F:207:LEU:HB3	5:F:212:LEU:HG	1.86	0.57
1:B:132:LEU:HD13	1:B:138:LEU:HD22	1.87	0.57
2:C:252:LYS:NZ	2:C:296:GLY:HA3	2.19	0.57
2:C:92:ALA:HB1	9:C:9550:HOH:O	2.03	0.57
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.34	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:787:LEU:HD11	3:N:947:ILE:HG12	1.86	0.57
2:M:130:ASN:HB3	9:M:9727:HOH:O	2.04	0.57
2:M:798:GLY:H	2:M:827:VAL:HG11	1.68	0.57
5:F:369:LEU:HD23	9:F:9483:HOH:O	2.02	0.57
2:C:799:ILE:HB	9:C:9767:HOH:O	2.03	0.57
2:C:101:ILE:HD12	2:C:107:LEU:HD13	1.86	0.57
5:P:208:SER:HB2	5:P:211:ASP:CG	2.25	0.57
3:D:603:LEU:O	3:D:607:LEU:HD12	2.04	0.57
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.86	0.57
2:M:976:ASP:CB	2:M:979:THR:HG22	2.35	0.57
2:M:679:PHE:CD1	2:M:870:ILE:HD13	2.40	0.57
1:L:36:LEU:HB3	9:L:4428:HOH:O	2.04	0.57
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.39	0.57
3:D:929:ARG:HD3	9:D:2352:HOH:O	2.04	0.57
3:N:1437:ALA:O	3:N:1446:VAL:HG21	2.04	0.57
3:N:212:ARG:HD2	9:N:9862:HOH:O	2.03	0.57
2:M:269:LEU:HG	2:M:285:LEU:HD21	1.87	0.57
5:P:419:ARG:HG3	5:P:420:ASP:N	2.20	0.57
1:K:20:TYR:CD2	1:K:21:GLY:N	2.73	0.57
3:D:369:ALA:HB3	9:D:2237:HOH:O	2.03	0.57
1:A:72:LYS:HD2	1:A:73:GLU:OE2	2.05	0.57
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.19	0.57
5:P:160:ASP:HB2	9:P:4343:HOH:O	2.03	0.57
2:M:1114:GLY:N	2:M:1115:LEU:HD12	2.09	0.57
3:N:127:LEU:HD11	3:N:461:ILE:HD11	1.86	0.57
3:D:1431:THR:HG21	9:D:9888:HOH:O	2.04	0.57
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.85	0.57
2:M:575:GLN:H	2:M:667:ALA:HB1	1.69	0.57
1:A:114:PHE:HB3	9:A:9585:HOH:O	2.04	0.57
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.05	0.57
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.85	0.57
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.34	0.57
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.86	0.57
3:D:817:GLU:O	3:D:821:VAL:HG23	2.04	0.57
2:C:598:GLU:O	2:C:651:LYS:HG3	2.04	0.57
2:C:841:ASN:HD21	2:C:845:ASN:N	2.03	0.57
2:C:214:TYR:HD2	9:C:9769:HOH:O	1.87	0.57
4:E:60:ALA:O	4:E:63:TRP:HB2	2.05	0.57
1:A:123:MET:O	1:A:125:PRO:HD3	2.04	0.57
3:D:422:ALA:H	3:D:427:VAL:CG1	2.16	0.57
3:D:540:LEU:HD21	3:D:603:LEU:HD21	1.87	0.57
5:F:350:LEU:HD12	5:F:422:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:580:MET:O	2:C:902:ILE:HA	2.04	0.57
2:M:838:LYS:HG3	2:M:997:LEU:HB2	1.87	0.57
2:M:45:GLN:HG2	9:M:2429:HOH:O	2.03	0.57
2:C:643:VAL:HG13	2:C:647:GLN:OE1	2.04	0.57
2:M:1082:PRO:HA	9:M:9532:HOH:O	2.04	0.57
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.87	0.57
4:O:85:LEU:HD23	4:O:86:GLN:H	1.70	0.57
3:D:1289:LYS:HD2	9:D:9996:HOH:O	2.04	0.57
1:A:107:LYS:HA	9:A:9530:HOH:O	2.03	0.57
1:L:2:LEU:HD13	1:L:3:ASP:OD1	2.04	0.57
3:N:178:LEU:HD11	3:N:203:ALA:HB2	1.86	0.57
3:D:1094:LEU:HB3	9:D:9776:HOH:O	2.04	0.57
2:C:208:ALA:O	2:C:218:VAL:HG21	2.05	0.57
3:N:119:SER:H	3:N:123:LEU:CD2	2.18	0.57
3:N:1103:HIS:HD2	3:N:1462:LEU:H	1.53	0.57
2:M:143:SER:HB3	2:M:330:ASN:O	2.03	0.57
2:M:1104:GLU:HA	3:N:6:ARG:CD	2.35	0.57
5:F:205:ARG:HG2	9:F:9829:HOH:O	2.05	0.57
2:M:292:ARG:HD2	2:M:299:LYS:HG2	1.85	0.57
5:P:223:ALA:HA	9:P:6226:HOH:O	2.05	0.57
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.34	0.57
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.35	0.57
2:M:112:GLU:HG3	9:M:9726:HOH:O	2.03	0.57
3:N:380:GLU:O	3:N:382:GLU:N	2.37	0.57
4:O:4:PRO:HG2	9:O:6061:HOH:O	2.05	0.57
1:A:182:GLU:HG2	9:A:9502:HOH:O	2.03	0.57
5:P:131:VAL:CG1	5:P:181:GLU:HG3	2.33	0.57
2:C:882:LEU:HD22	3:D:951:ILE:HD13	1.86	0.57
2:C:1005:MET:HE2	3:D:648:MET:HB2	1.87	0.57
1:K:227:ASN:N	1:K:227:ASN:HD22	2.01	0.57
5:F:361:LEU:HD12	5:F:408:LEU:HD11	1.87	0.57
2:M:49:ARG:NH1	2:M:49:ARG:HB2	2.20	0.57
3:D:658:LEU:HD11	3:D:674:ARG:HH11	1.69	0.57
4:O:48:MET:HB2	4:O:54:LEU:CD1	2.34	0.57
2:C:837:ASP:OD1	2:C:996:LYS:HE3	2.04	0.57
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.87	0.57
2:C:599:GLU:HG2	2:C:600:ASP:N	2.20	0.57
1:A:89:PHE:HE2	1:A:146:ARG:HD3	1.69	0.57
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.04	0.57
3:D:1350:GLU:O	3:D:1354:LYS:HG2	2.05	0.57
3:D:730:PRO:HA	3:D:733:CYS:SG	2.44	0.57
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.20	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:572:ARG:NH2	5:F:83:GLN:HG3	2.20	0.57
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.19	0.57
1:L:209:GLU:HB3	9:L:3774:HOH:O	2.05	0.57
9:L:5963:HOH:O	3:N:721:VAL:HG12	2.05	0.57
3:N:1090:ASP:O	3:N:1093:TYR:HB3	2.05	0.57
1:B:226:SER:O	1:B:228:PRO:HD3	2.04	0.57
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.86	0.57
3:D:1304:LYS:HD2	9:D:2299:HOH:O	2.04	0.57
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.40	0.57
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.87	0.57
3:D:1243:THR:OG1	3:D:1253:THR:HB	2.05	0.57
2:M:147:TYR:HB3	2:M:323:ASP:OD2	2.05	0.57
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.70	0.57
3:D:1353:GLN:HG3	9:D:2099:HOH:O	2.05	0.57
2:C:148:PHE:HZ	2:C:281:LEU:HD13	1.70	0.57
3:D:1393:GLN:HB2	3:D:1398:TRP:CZ2	2.39	0.57
2:C:64:LEU:HD13	2:C:359:MET:HG3	1.86	0.57
2:M:736:ASP:HA	2:M:744:ARG:HD3	1.87	0.57
3:N:22:SER:HB3	9:N:9776:HOH:O	2.04	0.57
2:M:1006:HIS:O	3:N:648:MET:HE2	2.04	0.57
5:P:256:ARG:HH12	5:P:313:GLU:HG2	1.70	0.57
2:C:1071:ILE:HD13	3:D:655:PRO:HB3	1.87	0.57
3:N:1049:SER:HB3	3:N:1051:GLU:OE2	2.04	0.57
3:D:191:LEU:HD22	3:D:195:VAL:HG21	1.87	0.56
2:M:721:ARG:HG2	9:M:9686:HOH:O	2.05	0.56
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.86	0.56
2:M:439:CYS:SG	2:M:540:PHE:HB3	2.45	0.56
5:F:166:LEU:O	5:F:171:LYS:HB2	2.04	0.56
2:C:513:VAL:HG23	9:C:2376:HOH:O	2.04	0.56
2:C:614:ARG:HG2	9:C:2116:HOH:O	2.04	0.56
4:O:66:LYS:HE3	9:O:4471:HOH:O	2.05	0.56
5:P:403:LYS:NZ	5:P:403:LYS:HA	2.20	0.56
5:P:309:LYS:HA	5:P:312:GLN:HE21	1.70	0.56
3:N:1147:ARG:HB2	3:N:1166:LEU:HD21	1.86	0.56
3:N:699:VAL:N	3:N:756:GLN:HE22	2.02	0.56
3:D:89:ARG:HA	9:D:9567:HOH:O	2.05	0.56
3:D:148:GLU:HG2	3:D:151:GLN:NE2	2.20	0.56
3:D:133:ILE:HG22	3:D:455:ARG:N	2.20	0.56
5:P:404:ALA:O	5:P:408:LEU:HD23	2.05	0.56
3:N:734:GLU:HB3	9:N:2085:HOH:O	2.04	0.56
3:D:470:LEU:HB2	3:D:503:LEU:HD11	1.87	0.56
3:D:510:GLU:O	3:D:513:ILE:HD12	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:395:VAL:HG23	9:N:2392:HOH:O	2.06	0.56
2:M:231:PRO:HB2	9:M:9876:HOH:O	2.05	0.56
3:D:695:ILE:HG21	3:D:720:LEU:HD11	1.87	0.56
3:N:488:ARG:HH11	3:N:488:ARG:HB3	1.70	0.56
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.85	0.56
3:D:81:THR:O	3:D:82:LYS:O	2.22	0.56
5:P:299:TRP:HE3	9:P:3308:HOH:O	1.87	0.56
5:F:142:ARG:HB2	9:F:9491:HOH:O	2.05	0.56
2:M:1079:PRO:HA	9:M:9805:HOH:O	2.05	0.56
1:K:20:TYR:HD2	1:K:21:GLY:N	2.03	0.56
2:C:1076:VAL:HG23	3:D:752:SER:HA	1.87	0.56
5:F:208:SER:HA	9:F:9790:HOH:O	2.05	0.56
3:D:967:ALA:O	3:D:995:LEU:HD21	2.04	0.56
2:M:750:LYS:HG3	3:N:680:GLN:OE1	2.05	0.56
3:N:1336:LEU:HD23	9:N:2315:HOH:O	2.04	0.56
3:N:1350:GLU:O	3:N:1354:LYS:HG2	2.04	0.56
3:D:1087:ARG:HD3	3:D:1090:ASP:CB	2.34	0.56
2:M:605:LYS:HD3	2:M:610:ARG:CZ	2.35	0.56
3:N:80:VAL:HG12	3:N:81:THR:N	2.20	0.56
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.69	0.56
3:N:882:PHE:CE1	3:N:906:GLN:HG3	2.40	0.56
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.34	0.56
2:M:1008:ARG:NH1	2:M:1011:GLY:HA3	2.21	0.56
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.05	0.56
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.19	0.56
2:C:684:PHE:HE2	3:D:733:CYS:HG	1.52	0.56
3:D:607:LEU:HB3	3:D:614:PHE:HE2	1.70	0.56
3:D:1031:ASN:HB3	3:D:1034:GLN:CG	2.35	0.56
2:M:145:GLY:O	2:M:163:ILE:HG23	2.04	0.56
9:C:9961:HOH:O	5:F:354:LEU:HD11	2.05	0.56
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.88	0.56
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.87	0.56
2:C:666:LEU:HD21	2:C:668:LEU:HD11	1.87	0.56
1:B:206:THR:CG2	1:B:209:GLU:H	2.19	0.56
1:A:101:LEU:HD21	1:A:113:ASP:HB3	1.87	0.56
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.40	0.56
3:N:969:ARG:HB2	9:N:9844:HOH:O	2.05	0.56
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.87	0.56
2:C:172:ILE:H	2:C:172:ILE:HD12	1.70	0.56
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	2.20	0.56
2:C:640:ARG:HH11	2:C:642:ARG:HH22	1.52	0.56
3:N:865:THR:HG23	3:N:874:GLU:HG2	1.86	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:486:ARG:HH21	3:D:489:ARG:CZ	2.18	0.56
5:F:401:GLU:O	5:F:405:LEU:HB2	2.05	0.56
5:P:355:GLU:HA	9:P:3471:HOH:O	2.05	0.56
5:P:289:GLU:O	5:P:293:GLU:HG3	2.05	0.56
3:N:411:THR:HG23	3:N:429:SER:HB3	1.87	0.56
1:K:5:LYS:O	1:K:8:ALA:HB2	2.06	0.56
5:P:401:GLU:O	5:P:405:LEU:HB2	2.05	0.56
3:N:1279:GLY:O	3:N:1318:TYR:HA	2.05	0.56
3:N:1394:VAL:HG11	9:N:9728:HOH:O	2.04	0.56
3:N:683:ILE:HG21	3:N:688:TRP:CZ3	2.41	0.56
3:D:1191:PRO:HB3	3:D:1370:ILE:HD13	1.87	0.56
2:C:585:GLU:O	2:C:588:VAL:HG22	2.04	0.56
3:N:138:LYS:HA	9:N:9563:HOH:O	2.04	0.56
3:D:58:CYS:SG	3:D:59:ALA:N	2.78	0.56
3:D:1087:ARG:NH2	3:D:1238:MET:HB2	2.21	0.56
1:B:150:TYR:CE2	3:D:857:ILE:HG13	2.40	0.56
3:N:53:ILE:HG23	3:N:54:LYS:N	2.18	0.56
3:D:424:GLY:HA2	3:D:435:VAL:O	2.05	0.56
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.69	0.56
5:P:264:MET:O	5:P:267:THR:HB	2.05	0.56
2:C:275:TYR:CD2	2:C:276:LYS:HG3	2.41	0.56
3:N:530:VAL:HG23	3:N:534:ARG:O	2.05	0.56
5:P:230:LYS:HB2	9:P:4672:HOH:O	2.04	0.56
3:N:844:ALA:O	3:N:867:ARG:HB3	2.05	0.56
4:O:81:PRO:HB2	9:O:4797:HOH:O	2.05	0.56
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.39	0.56
2:M:173:ASP:O	2:M:184:MET:HA	2.04	0.56
3:D:774:SER:C	3:D:776:GLU:H	2.08	0.56
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.86	0.56
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.21	0.56
5:F:220:LEU:HD12	5:F:243:ILE:HD11	1.87	0.56
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.87	0.56
3:N:1122:LEU:O	3:N:1134:LEU:HD12	2.05	0.56
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.41	0.56
3:N:804:LEU:HD23	3:N:804:LEU:H	1.71	0.56
2:C:338:GLU:HA	2:C:341:THR:HG22	1.88	0.56
2:M:742:VAL:HG12	2:M:743:VAL:N	2.21	0.56
2:M:685:GLU:HG2	3:N:739:ASP:HB2	1.87	0.56
2:M:1071:ILE:HG13	9:M:9978:HOH:O	2.03	0.56
3:N:788:GLY:O	3:N:792:ILE:HG22	2.05	0.56
2:C:227:PHE:HD2	2:C:230:ARG:HH21	1.54	0.56
4:O:94:PRO:HA	9:O:5690:HOH:O	2.05	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:407:LYS:HA	9:P:3848:HOH:O	2.05	0.56
2:M:116:GLY:HA3	2:M:378:LEU:HD23	1.88	0.56
3:D:1091:SER:HA	9:D:2229:HOH:O	2.06	0.56
3:N:1147:ARG:O	3:N:1166:LEU:HD23	2.05	0.56
3:D:171:LEU:HB2	3:D:390:PRO:HA	1.86	0.56
3:N:699:VAL:H	3:N:756:GLN:HE22	1.52	0.56
2:C:89:THR:HA	2:C:129:ILE:O	2.06	0.56
3:N:570:GLU:OE2	5:P:214:GLN:HG3	2.05	0.56
5:F:291:ILE:O	5:F:295:MET:HB2	2.06	0.56
2:M:139:GLN:HG2	2:M:140:ILE:H	1.70	0.56
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.40	0.56
2:C:1050:GLN:HG2	2:C:1079:PRO:HG2	1.88	0.56
3:D:901:GLN:HB2	9:D:2047:HOH:O	2.06	0.56
2:M:41:ASN:HB2	9:M:2429:HOH:O	2.04	0.56
2:C:114:PHE:HD1	2:C:114:PHE:H	1.53	0.56
3:N:661:MET:HG2	3:N:666:ILE:HD12	1.87	0.56
5:P:226:LYS:HE3	9:P:4530:HOH:O	2.05	0.56
2:C:837:ASP:HA	2:C:999:HIS:HE1	1.71	0.56
3:N:864:VAL:HG12	3:N:865:THR:H	1.68	0.56
2:C:648:ARG:HB3	9:C:2219:HOH:O	2.06	0.56
3:N:949:ILE:HD11	3:N:1023:MET:HE1	1.87	0.56
1:A:81:ASN:HA	1:A:84:GLU:OE2	2.06	0.56
2:M:257:VAL:HG13	9:M:9572:HOH:O	2.06	0.56
2:M:789:SER:O	2:M:791:ARG:HG2	2.06	0.56
2:C:257:VAL:HG21	9:C:2339:HOH:O	2.05	0.56
2:M:276:LYS:O	2:M:280:LYS:HB2	2.05	0.56
2:M:589:ARG:CB	2:M:589:ARG:HH11	2.17	0.56
3:N:714:GLN:HB2	3:N:736:PHE:HZ	1.71	0.56
3:D:699:VAL:HG12	3:D:717:GLN:HG3	1.86	0.56
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.34	0.56
3:N:814:ALA:HB2	9:N:9921:HOH:O	2.06	0.56
3:D:68:PHE:HE2	9:D:2680:HOH:O	1.88	0.56
3:D:842:VAL:HG22	9:D:2270:HOH:O	2.05	0.56
3:D:1366:LYS:O	3:D:1369:GLU:HB2	2.06	0.56
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.88	0.56
3:D:963:TYR:CE2	3:D:1002:LYS:HB3	2.41	0.56
2:C:251:ASP:HB3	2:C:252:LYS:HD2	1.87	0.56
3:N:1495:ILE:HG23	9:N:9711:HOH:O	2.06	0.56
3:N:1429:LEU:HG	3:N:1441:GLN:HG3	1.88	0.56
2:M:484:VAL:HA	9:M:9777:HOH:O	2.06	0.56
4:E:95:GLY:HA3	9:E:9521:HOH:O	2.05	0.56
1:B:2:LEU:HD12	1:B:3:ASP:N	2.20	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:100:LEU:HD12	2:C:101:ILE:O	2.06	0.56
3:D:132:TYR:HA	9:D:9863:HOH:O	2.06	0.56
2:C:1003:ASP:O	2:C:1005:MET:N	2.38	0.56
3:D:488:ARG:HG2	9:D:9629:HOH:O	2.06	0.56
5:F:385:GLU:O	5:F:397:ILE:HD13	2.05	0.56
3:N:1301:LYS:HD2	9:N:2174:HOH:O	2.05	0.56
5:F:418:LEU:HB2	9:F:9856:HOH:O	2.06	0.56
2:C:630:ARG:HH22	2:C:707:ARG:N	2.04	0.56
3:D:135:LEU:HD11	3:D:139:GLY:HA3	1.86	0.56
2:C:606:VAL:CG2	2:C:645:VAL:HG22	2.35	0.56
3:D:971:LEU:O	3:D:975:GLU:HG3	2.06	0.56
3:D:799:LYS:H	3:D:826:PRO:HG2	1.71	0.56
2:C:965:GLU:HG2	9:C:2373:HOH:O	2.06	0.56
1:K:106:PRO:HD3	9:K:4154:HOH:O	2.06	0.56
5:F:234:LYS:CD	5:F:236:SER:HB3	2.35	0.56
1:A:128:HIS:HB2	9:A:9508:HOH:O	2.06	0.56
2:C:54:ILE:HB	9:C:9495:HOH:O	2.05	0.56
2:C:36:PRO:HB2	2:C:70:GLU:HG2	1.88	0.56
2:M:551:GLU:HA	2:M:906:PHE:CE2	2.41	0.56
3:D:142:LEU:HA	9:D:9874:HOH:O	2.05	0.56
3:D:790:TYR:HD2	3:D:906:GLN:O	1.89	0.56
5:F:191:ASN:CA	5:F:194:LEU:HD23	2.34	0.56
2:M:442:GLU:HG3	9:M:9719:HOH:O	2.06	0.56
2:C:265:ARG:HA	9:C:9902:HOH:O	2.04	0.56
3:N:68:PHE:O	3:N:71:LYS:HG2	2.05	0.56
3:N:1003:VAL:O	3:N:1007:VAL:HG13	2.06	0.56
1:B:25:LEU:HD23	1:B:28:LEU:HD21	1.87	0.56
3:D:1334:GLN:HA	9:D:9693:HOH:O	2.05	0.56
3:N:1204:CYS:HB3	9:N:9589:HOH:O	2.05	0.56
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.88	0.56
3:N:574:LEU:O	3:N:578:VAL:HG23	2.05	0.56
1:L:137:ARG:HH11	1:L:137:ARG:HB3	1.71	0.56
3:D:1289:LYS:HB3	9:D:2542:HOH:O	2.06	0.56
3:D:33:ASN:HA	9:F:9729:HOH:O	2.05	0.56
3:D:1335:LEU:HD21	9:D:9614:HOH:O	2.05	0.56
1:A:7:LYS:HG3	9:A:9524:HOH:O	2.05	0.56
2:C:57:GLU:HB3	9:C:9973:HOH:O	2.05	0.56
3:N:783:ARG:HE	3:N:1029:ARG:CD	2.18	0.56
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.15	0.56
3:D:192:ALA:O	3:D:195:VAL:HG23	2.05	0.56
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.71	0.56
2:M:1008:ARG:HD2	3:N:624:ASP:O	2.06	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:879:ARG:HB2	9:C:9557:HOH:O	2.06	0.56
3:D:524:LEU:C	3:D:526:PRO:HD3	2.26	0.56
4:E:26:ARG:O	4:E:29:GLN:HG3	2.06	0.56
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.88	0.56
9:K:6004:HOH:O	1:L:43:ILE:HD13	2.05	0.56
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.06	0.56
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.40	0.56
2:C:838:LYS:HD2	2:C:997:LEU:HD12	1.86	0.56
3:N:949:ILE:HD11	3:N:1023:MET:CE	2.36	0.56
5:F:234:LYS:HD3	5:F:236:SER:HB3	1.88	0.56
2:M:584:GLU:H	2:M:584:GLU:CD	2.08	0.56
5:F:81:VAL:O	5:F:85:LEU:HG	2.06	0.55
5:P:195:VAL:HG11	5:P:217:ASN:OD1	2.06	0.55
3:D:1209:LEU:HD22	3:D:1211:MET:CE	2.36	0.55
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.24	0.55
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.40	0.55
2:M:206:THR:O	2:M:210:GLU:HG3	2.05	0.55
2:M:911:GLU:O	2:M:915:LYS:HG2	2.06	0.55
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.25	0.55
3:D:704:ARG:HD3	3:D:738:ALA:HB2	1.88	0.55
1:L:206:THR:HG22	1:L:209:GLU:HG3	1.88	0.55
3:N:36:THR:C	3:N:38:LYS:H	2.09	0.55
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.88	0.55
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.88	0.55
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.06	0.55
3:D:1369:GLU:O	3:D:1372:VAL:HG12	2.05	0.55
3:D:999:THR:O	3:D:1002:LYS:HB2	2.06	0.55
1:L:103:ALA:HA	9:L:4911:HOH:O	2.06	0.55
3:D:98:PRO:HG3	3:D:515:GLU:HB3	1.88	0.55
3:N:787:LEU:HD21	3:N:947:ILE:HD11	1.87	0.55
3:N:1278:ASP:HB2	3:N:1318:TYR:HE1	1.70	0.55
2:M:61:LYS:HD2	9:M:9929:HOH:O	2.06	0.55
3:N:1342:GLU:CD	3:N:1342:GLU:H	2.09	0.55
2:C:236:ILE:HG13	9:C:9904:HOH:O	2.05	0.55
2:C:426:ASP:OD1	2:C:427:VAL:HG23	2.05	0.55
2:C:269:LEU:O	2:C:269:LEU:HD23	2.06	0.55
2:C:724:ARG:NH2	2:C:734:LEU:HB3	2.20	0.55
2:M:957:LYS:HG2	9:M:9678:HOH:O	2.05	0.55
3:N:390:PRO:HG2	9:N:2717:HOH:O	2.06	0.55
2:M:772:ARG:HE	5:P:373:LYS:HD2	1.70	0.55
2:M:772:ARG:NE	5:P:373:LYS:HD2	2.21	0.55
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.35	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:737:ASN:HA	9:D:9487:HOH:O	2.05	0.55
1:K:227:ASN:HB2	9:K:5811:HOH:O	2.05	0.55
2:C:389:SER:C	2:C:391:LEU:H	2.08	0.55
2:M:577:PRO:HA	2:M:993:PHE:HD2	1.72	0.55
2:M:1090:LYS:HE2	2:M:1112:PHE:HE1	1.71	0.55
3:N:1459:LEU:HD22	3:N:1465:ASN:ND2	2.20	0.55
2:M:208:ALA:O	2:M:218:VAL:HG21	2.06	0.55
5:P:304:VAL:HG22	9:P:3308:HOH:O	2.06	0.55
3:D:709:HIS:HE2	3:D:711:LEU:HB2	1.71	0.55
1:B:73:GLU:HB3	1:B:77:GLU:HG2	1.86	0.55
2:M:748:GLU:HG3	9:M:2069:HOH:O	2.05	0.55
2:M:471:TYR:CE2	2:M:496:ILE:HG21	2.41	0.55
5:P:167:PRO:HB2	5:P:169:GLU:OE2	2.05	0.55
1:K:181:VAL:HG11	9:K:3503:HOH:O	2.05	0.55
3:N:1401:GLU:OE1	3:N:1415:VAL:HG11	2.06	0.55
5:P:82:ARG:HG3	5:P:86:HIS:CE1	2.41	0.55
2:M:18:LEU:HB2	2:M:590:ASP:HB3	1.87	0.55
2:M:1027:PHE:HA	9:M:9907:HOH:O	2.05	0.55
2:C:1086:ARG:HH11	3:D:88:TYR:HE1	1.54	0.55
3:D:1066:THR:CG2	3:D:1069:GLU:H	2.19	0.55
2:C:976:ASP:CB	2:C:979:THR:HG22	2.37	0.55
3:D:966:GLU:O	3:D:969:ARG:HG2	2.06	0.55
3:D:1097:LYS:HD3	9:D:9906:HOH:O	2.07	0.55
3:N:397:LYS:HB2	9:N:2381:HOH:O	2.05	0.55
2:C:758:ARG:HB3	2:C:788:THR:O	2.07	0.55
3:D:1364:HIS:NE2	3:D:1366:LYS:HE3	2.22	0.55
5:F:278:LEU:HD22	5:F:290:GLU:HB3	1.88	0.55
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.88	0.55
2:C:811:PRO:HD3	9:C:9578:HOH:O	2.05	0.55
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.06	0.55
3:N:1341:PRO:O	3:N:1344:VAL:HG23	2.06	0.55
3:D:121:THR:HG23	9:D:2262:HOH:O	2.06	0.55
1:K:122:ILE:HD12	9:K:4736:HOH:O	2.05	0.55
3:D:1094:LEU:HD23	3:D:1230:GLY:HA2	1.87	0.55
1:A:212:ASN:O	1:A:215:VAL:HG22	2.06	0.55
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.17	0.55
2:C:479:VAL:HG23	2:C:506:ASN:HA	1.88	0.55
2:C:555:ALA:HA	3:D:1070:TYR:OH	2.07	0.55
2:M:239:PHE:CZ	2:M:254:VAL:HB	2.40	0.55
1:A:75:VAL:N	9:A:9598:HOH:O	2.39	0.55
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.87	0.55
3:D:698:LYS:HA	9:E:9480:HOH:O	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:41:ASN:O	2:M:46:ALA:HB2	2.06	0.55
2:M:52:PHE:CE1	2:M:66:LEU:HG	2.42	0.55
5:F:247:ILE:O	5:F:251:ILE:HG13	2.06	0.55
4:O:76:GLY:HA3	4:O:79:LEU:HD13	1.89	0.55
2:C:1015:LEU:HD22	5:F:333:ILE:HG21	1.88	0.55
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.22	0.55
2:M:12:VAL:HG13	2:M:13:ILE:HG23	1.89	0.55
3:D:119:SER:CB	3:D:123:LEU:HB2	2.37	0.55
2:C:460:ARG:HD2	2:C:485:TYR:CE2	2.41	0.55
3:D:764:LEU:HB3	9:D:9549:HOH:O	2.07	0.55
3:D:536:ALA:HA	9:F:9527:HOH:O	2.07	0.55
1:K:42:ARG:HG2	1:K:42:ARG:HH11	1.70	0.55
5:F:195:VAL:HG11	5:F:217:ASN:OD1	2.07	0.55
2:M:567:GLN:HB2	2:M:997:LEU:HD22	1.88	0.55
2:M:197:LEU:HD12	2:M:207:LEU:HD11	1.89	0.55
5:P:278:LEU:HB2	5:P:286:PRO:HG2	1.88	0.55
2:M:975:TYR:HA	2:M:982:PRO:HA	1.88	0.55
2:M:953:VAL:HG13	2:M:966:LEU:HD22	1.89	0.55
2:C:198:ARG:NH2	2:C:203:ASP:HB3	2.22	0.55
2:C:808:ARG:HG2	9:C:9965:HOH:O	2.05	0.55
2:C:544:THR:O	2:C:547:ILE:HG13	2.06	0.55
9:N:9664:HOH:O	4:O:5:GLY:HA2	2.06	0.55
5:F:357:ALA:HA	9:F:9770:HOH:O	2.07	0.55
1:B:10:VAL:HG12	1:B:12:THR:HG23	1.87	0.55
1:L:59:GLU:HG3	1:L:139:ASN:HB3	1.88	0.55
3:N:774:SER:C	3:N:776:GLU:H	2.09	0.55
2:C:885:ILE:HD12	3:D:949:ILE:HB	1.87	0.55
3:D:572:ARG:NH2	5:F:83:GLN:HE21	1.97	0.55
3:D:18:ILE:HG21	3:D:516:ALA:O	2.07	0.55
3:D:462:GLN:HB3	9:D:9482:HOH:O	2.06	0.55
2:C:41:ASN:O	2:C:46:ALA:HB2	2.07	0.55
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.35	0.55
5:F:363:GLU:HA	5:F:367:MET:CE	2.37	0.55
2:M:1104:GLU:HG3	3:N:6:ARG:HD2	1.88	0.55
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.89	0.55
2:M:769:PRO:HB2	3:N:65:ARG:NH2	2.21	0.55
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.37	0.55
3:N:679:ARG:HD3	3:N:682:ASP:OD2	2.06	0.55
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.41	0.55
1:B:95:GLN:HA	1:B:146:ARG:HD2	1.87	0.55
5:P:135:ILE:HD13	5:P:135:ILE:O	2.06	0.55
2:C:704:HIS:CD2	2:C:831:ARG:HH21	2.24	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:911:LEU:O	3:N:915:VAL:HG23	2.07	0.55
2:C:264:PRO:HB2	9:C:9939:HOH:O	2.07	0.55
3:N:46:ASP:HB3	3:N:49:ILE:HG13	1.88	0.55
1:A:191:ASP:O	1:A:192:LEU:HD23	2.07	0.55
2:M:462:ASP:HB3	2:M:468:ARG:CD	2.33	0.55
1:B:65:PHE:HD1	3:D:813:LEU:HD22	1.72	0.55
1:B:132:LEU:HD22	9:B:9571:HOH:O	2.05	0.55
3:D:785:ILE:HD12	3:D:785:ILE:H	1.72	0.55
5:P:172:ARG:O	5:P:176:ILE:HD13	2.07	0.55
2:M:9:ILE:HG13	2:M:9:ILE:O	2.07	0.55
3:N:75:ARG:HG3	3:N:75:ARG:HH11	1.72	0.55
3:D:823:LEU:HG	9:D:9683:HOH:O	2.07	0.55
2:M:26:TYR:O	2:M:30:LEU:HD12	2.06	0.55
1:B:81:ASN:O	1:B:84:GLU:HB3	2.06	0.55
2:C:724:ARG:CD	2:C:740:GLU:HA	2.37	0.55
2:M:1097:LEU:N	2:M:1097:LEU:HD13	2.22	0.55
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.88	0.55
2:C:674:VAL:HG23	2:C:869:VAL:O	2.06	0.55
3:D:145:VAL:HB	9:D:9524:HOH:O	2.05	0.55
3:D:28:LYS:CB	3:D:41:ARG:HD2	2.37	0.55
3:N:28:LYS:HB2	3:N:41:ARG:HD2	1.89	0.55
2:C:396:ASP:HA	2:C:633:GLN:HE22	1.72	0.55
5:P:412:GLU:HG3	5:P:418:LEU:HD22	1.88	0.55
5:P:164:LYS:HA	5:P:171:LYS:HE3	1.88	0.55
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.36	0.55
3:D:9:ARG:NH1	3:D:506:GLY:HA2	2.20	0.55
5:P:234:LYS:HD3	5:P:236:SER:H	1.72	0.55
1:B:94:LEU:HD11	1:B:119:ASP:HB3	1.88	0.55
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.22	0.55
3:D:1271:LYS:HG2	9:D:2043:HOH:O	2.06	0.55
5:P:247:ILE:HG22	5:P:251:ILE:HD11	1.89	0.55
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.88	0.55
2:M:549:PHE:CE2	2:M:886:LEU:HB3	2.42	0.55
1:A:156:HIS:CD2	1:A:158:ILE:HG12	2.42	0.55
2:C:529:VAL:HG21	9:C:9927:HOH:O	2.05	0.55
3:D:156:GLU:CD	3:D:156:GLU:H	2.10	0.55
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.88	0.55
3:N:424:GLY:HA3	9:N:2149:HOH:O	2.07	0.55
2:C:874:LEU:HD12	3:D:784:ASP:OD2	2.06	0.55
3:D:537:THR:C	5:F:317:LEU:HB2	2.28	0.55
2:C:860:HIS:NE2	2:C:975:TYR:HB2	2.22	0.55
2:C:976:ASP:OD1	2:C:978:ARG:HD3	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:184:ARG:O	5:P:188:ILE:HG13	2.07	0.55
5:P:217:ASN:O	5:P:221:ILE:HG13	2.07	0.55
5:F:136:LEU:HB3	5:F:185:GLN:HE22	1.71	0.55
2:M:411:SER:OG	2:M:452:ILE:HG23	2.06	0.55
2:C:575:GLN:HB2	2:C:670:GLN:HG2	1.87	0.55
2:C:575:GLN:N	2:C:667:ALA:HB1	2.20	0.55
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.88	0.55
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.88	0.55
5:F:416:ARG:HB2	9:F:9697:HOH:O	2.06	0.55
5:P:416:ARG:NH1	5:P:419:ARG:HB3	2.22	0.55
3:D:1115:THR:HG23	9:D:2006:HOH:O	2.06	0.55
1:L:41:ARG:HG3	9:L:4703:HOH:O	2.06	0.55
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.89	0.55
2:M:1117:SER:HB2	9:M:2359:HOH:O	2.07	0.55
3:N:709:HIS:ND1	3:N:709:HIS:N	2.55	0.55
2:C:64:LEU:HA	9:C:9791:HOH:O	2.07	0.55
2:M:157:ARG:HD3	2:M:158:TYR:H	1.72	0.55
2:M:244:PRO:HD2	2:M:245:GLY:H	1.72	0.55
5:P:136:LEU:HB3	5:P:185:GLN:HE22	1.71	0.55
3:N:119:SER:N	3:N:123:LEU:HB2	2.21	0.55
3:D:668:PRO:HD2	3:D:672:ALA:CB	2.37	0.55
2:M:78:PHE:HB2	2:M:88:LEU:HD21	1.87	0.55
2:M:232:GLU:HG2	9:M:2023:HOH:O	2.07	0.55
2:M:64:LEU:HD12	2:M:65:VAL:N	2.22	0.55
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	1.88	0.55
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.72	0.55
5:P:222:ARG:HH12	5:P:246:ALA:HB2	1.71	0.55
2:C:817:PRO:HB3	5:F:305:GLU:OE2	2.07	0.55
3:N:865:THR:CG2	3:N:874:GLU:HG2	2.36	0.55
2:C:831:ARG:HA	9:C:9771:HOH:O	2.06	0.55
2:C:626:ARG:HB2	2:C:626:ARG:HH11	1.71	0.55
2:M:363:SER:HB3	9:M:9637:HOH:O	2.06	0.55
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.22	0.54
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.33	0.54
2:C:432:ARG:HG2	9:C:9920:HOH:O	2.06	0.54
5:P:185:GLN:O	5:P:189:GLU:HG3	2.07	0.54
2:M:144:PRO:HG3	9:M:9535:HOH:O	2.07	0.54
2:M:165:LEU:HD11	9:M:2143:HOH:O	2.07	0.54
3:N:12:LEU:HD22	3:N:511:TRP:HB2	1.89	0.54
1:L:39:PRO:O	1:L:43:ILE:HG12	2.08	0.54
3:D:675:ARG:HD3	9:D:2158:HOH:O	2.06	0.54
3:N:71:LYS:HE3	9:N:9778:HOH:O	2.06	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.42	0.54
1:B:27:PRO:O	1:B:28:LEU:HD23	2.07	0.54
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.88	0.54
4:E:92:ILE:HG21	9:E:9509:HOH:O	2.07	0.54
2:C:209:ARG:N	2:C:209:ARG:HD2	2.22	0.54
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.88	0.54
3:D:1258:ARG:O	3:D:1262:LEU:HD13	2.08	0.54
2:C:72:ARG:HH11	2:C:72:ARG:HG3	1.71	0.54
3:N:546:ARG:HG3	9:N:9696:HOH:O	2.08	0.54
3:N:550:ARG:NH1	3:N:573:MET:HB3	2.21	0.54
3:D:119:SER:H	3:D:123:LEU:HD13	1.72	0.54
3:N:1242:HIS:CE1	3:N:1266:ARG:HD3	2.42	0.54
3:N:586:ARG:HD2	9:N:2319:HOH:O	2.07	0.54
2:C:290:LEU:HB3	2:C:302:VAL:HG11	1.89	0.54
2:M:405:ARG:HG2	9:M:2089:HOH:O	2.06	0.54
2:M:428:ARG:CZ	2:M:451:LEU:HD11	2.37	0.54
2:C:522:VAL:HG12	2:C:524:VAL:HG23	1.88	0.54
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.72	0.54
3:D:519:VAL:HG13	3:D:544:TYR:CZ	2.42	0.54
3:N:996:TRP:O	3:N:999:THR:HG22	2.07	0.54
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.34	0.54
3:D:996:TRP:HB2	3:D:1044:LEU:HD11	1.89	0.54
4:O:48:MET:HB2	4:O:54:LEU:HD12	1.89	0.54
3:D:1432:LYS:HZ1	3:D:1460:ILE:HG13	1.71	0.54
2:C:612:VAL:HG22	2:C:622:GLU:HA	1.89	0.54
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.88	0.54
2:M:313:LEU:HD12	2:M:313:LEU:O	2.07	0.54
3:D:775:GLY:HA2	9:D:2120:HOH:O	2.07	0.54
3:D:1321:ALA:O	3:D:1339:LYS:HD3	2.07	0.54
2:M:368:THR:HB	2:M:369:PRO:HD3	1.89	0.54
3:N:131:LYS:HG2	3:N:568:ARG:HG2	1.89	0.54
2:M:721:ARG:NH2	2:M:785:VAL:HG21	2.22	0.54
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.89	0.54
2:M:148:PHE:HZ	2:M:281:LEU:HD13	1.72	0.54
2:M:157:ARG:CD	2:M:314:THR:HG22	2.35	0.54
3:D:965:GLU:O	3:D:968:ASP:HB2	2.08	0.54
5:F:125:ASP:HA	5:F:128:ARG:CZ	2.37	0.54
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.88	0.54
3:D:1307:LYS:HG2	3:D:1308:GLU:OE1	2.08	0.54
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.90	0.54
2:M:862:PRO:HA	2:M:975:TYR:HE1	1.72	0.54
2:M:500:ASN:HD21	3:N:1067:VAL:HG23	1.73	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:102:LEU:HD12	5:F:187:LEU:HG	1.89	0.54
5:P:308:LEU:O	5:P:312:GLN:HG3	2.07	0.54
2:M:584:GLU:O	2:M:588:VAL:HG13	2.07	0.54
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.88	0.54
2:C:715:THR:HG22	2:C:717:LEU:HG	1.90	0.54
2:C:206:THR:HG21	9:C:2105:HOH:O	2.07	0.54
2:C:1062:GLY:HA2	9:C:9628:HOH:O	2.06	0.54
1:A:94:LEU:HB2	9:A:9536:HOH:O	2.06	0.54
1:K:67:THR:CG2	2:M:609:ASN:HD21	2.20	0.54
2:C:73:LEU:HB3	2:C:94:LEU:HD13	1.89	0.54
5:P:154:LYS:HD2	9:P:3317:HOH:O	2.07	0.54
3:N:639:LEU:HD11	3:N:731:LEU:HD12	1.89	0.54
3:N:42:ASP:O	3:N:43:GLY:O	2.26	0.54
3:D:628:ARG:HD3	3:D:744:GLN:HE22	1.71	0.54
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.88	0.54
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.07	0.54
2:M:988:VAL:HG13	9:M:9722:HOH:O	2.07	0.54
2:M:455:LEU:CD1	2:M:459:ALA:HB3	2.37	0.54
3:D:493:ARG:HG2	3:D:493:ARG:HH11	1.71	0.54
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.35	0.54
5:P:332:PHE:HB2	9:P:5627:HOH:O	2.07	0.54
3:D:1318:TYR:HD1	3:D:1319:VAL:H	1.55	0.54
3:N:1404:ASN:ND2	3:N:1408:ILE:HD12	2.20	0.54
1:B:184:THR:O	1:B:192:LEU:HB2	2.08	0.54
1:K:58:ILE:HB	1:K:61:VAL:HB	1.89	0.54
1:B:105:GLY:O	1:B:132:LEU:HD23	2.06	0.54
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.37	0.54
3:N:829:VAL:HA	9:N:2355:HOH:O	2.06	0.54
3:N:1035:ILE:HG22	3:N:1039:CYS:SG	2.47	0.54
1:K:224:TYR:CD2	1:L:9:PRO:HG2	2.42	0.54
2:M:1076:VAL:CG2	3:N:752:SER:HB3	2.37	0.54
2:M:152:PRO:HG2	9:M:9934:HOH:O	2.06	0.54
2:M:17:PRO:O	2:M:20:GLU:HB3	2.07	0.54
3:N:514:LEU:HD23	9:N:9923:HOH:O	2.08	0.54
3:D:868:TYR:CG	3:D:869:MET:N	2.75	0.54
3:D:1413:THR:HA	9:D:2122:HOH:O	2.07	0.54
3:D:1478:SER:OG	3:D:1481:VAL:HG23	2.08	0.54
3:N:423:ASP:OD1	5:P:174:LEU:HD13	2.08	0.54
3:D:186:VAL:HG11	3:D:213:VAL:HB	1.89	0.54
3:D:116:LEU:O	3:D:118:LEU:HG	2.07	0.54
2:C:859:PRO:O	2:C:867:VAL:HG22	2.08	0.54
2:C:437:ARG:O	2:C:467:ILE:HD13	2.08	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.28	0.54
2:M:159:ILE:HG22	9:M:9660:HOH:O	2.06	0.54
3:N:565:ILE:HD13	5:P:189:GLU:HG2	1.88	0.54
3:N:704:ARG:HG3	3:N:736:PHE:CB	2.33	0.54
3:D:152:LEU:N	3:D:152:LEU:HD23	2.20	0.54
2:M:198:ARG:NH2	2:M:203:ASP:HB3	2.21	0.54
2:M:83:CYS:HA	2:M:88:LEU:HD23	1.90	0.54
2:M:335:THR:HG21	2:M:461:VAL:HG11	1.89	0.54
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.88	0.54
5:F:264:MET:O	5:F:267:THR:HB	2.07	0.54
3:D:1412:LYS:HE2	3:D:1414:PRO:HG3	1.88	0.54
1:B:97:VAL:HG13	9:B:9502:HOH:O	2.07	0.54
2:M:704:HIS:CB	2:M:831:ARG:HE	2.19	0.54
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.91	0.54
5:P:419:ARG:NH1	5:P:419:ARG:HB2	2.22	0.54
5:P:269:ASN:O	5:P:273:ARG:HG3	2.07	0.54
2:M:642:ARG:HG3	2:M:657:ASP:OD2	2.06	0.54
3:N:1236:LEU:HD11	3:N:1356:TYR:CE1	2.43	0.54
1:L:110:LYS:HB2	1:L:110:LYS:HZ2	1.71	0.54
3:D:1080:GLY:O	3:D:1084:THR:HG23	2.07	0.54
2:C:736:ASP:O	2:C:744:ARG:HG2	2.07	0.54
3:N:1148:VAL:O	3:N:1189:ARG:HG2	2.06	0.54
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.90	0.54
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.88	0.54
5:P:201:LYS:HB2	9:P:4870:HOH:O	2.06	0.54
2:M:637:LEU:N	2:M:637:LEU:HD23	2.23	0.54
3:N:178:LEU:HG	3:N:200:ASP:H	1.71	0.54
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.87	0.54
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.90	0.54
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.72	0.54
2:M:273:GLY:HA2	2:M:276:LYS:HD3	1.89	0.54
5:P:264:MET:HB3	9:P:3779:HOH:O	2.07	0.54
3:D:709:HIS:HA	3:D:1227:GLN:HG2	1.90	0.54
3:N:1117:TYR:HB3	9:N:2569:HOH:O	2.07	0.54
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.37	0.54
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.89	0.54
3:N:799:LYS:HD3	3:N:799:LYS:O	2.07	0.54
2:M:260:LEU:HG	2:M:261:ILE:HG13	1.89	0.54
2:C:841:ASN:HD21	2:C:845:ASN:H	1.55	0.54
1:A:123:MET:C	1:A:125:PRO:HD3	2.28	0.54
3:N:1350:GLU:HG3	3:N:1354:LYS:HE3	1.88	0.54
3:D:1008:PHE:HZ	3:D:1032:PRO:HA	1.73	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:593:ALA:HA	9:C:9558:HOH:O	2.07	0.54
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.27	0.54
3:D:664:LYS:HD3	9:D:2194:HOH:O	2.07	0.54
5:F:279:GLN:HB2	9:F:9647:HOH:O	2.07	0.54
3:D:852:ALA:O	3:D:857:ILE:HG12	2.07	0.54
1:B:86:VAL:HG12	1:B:124:ASN:ND2	2.08	0.54
3:D:178:LEU:HD21	3:D:199:LEU:H	1.73	0.54
3:D:427:VAL:HG21	3:D:435:VAL:HB	1.89	0.54
5:P:159:ILE:O	5:P:163:LEU:HG	2.07	0.54
2:M:545:ASN:O	2:M:581:THR:HG21	2.07	0.54
3:N:690:ALA:O	3:N:694:VAL:HG23	2.08	0.54
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.08	0.54
2:C:1090:LYS:HE3	3:D:88:TYR:O	2.06	0.54
3:D:1487:VAL:HA	9:D:9715:HOH:O	2.06	0.54
5:P:192:LEU:O	5:P:196:VAL:HG23	2.08	0.54
3:D:470:LEU:HD12	9:D:2635:HOH:O	2.07	0.54
2:M:730:SER:HB3	9:M:2237:HOH:O	2.07	0.54
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.23	0.54
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.42	0.54
2:M:1085:PHE:HE1	2:M:1111:ILE:HG21	1.73	0.54
3:D:1118:ILE:HG23	9:D:9597:HOH:O	2.08	0.54
3:N:1252:ILE:HD13	9:N:9977:HOH:O	2.08	0.54
1:B:101:LEU:HG	1:B:114:PHE:HA	1.89	0.54
2:M:798:GLY:H	2:M:827:VAL:CG1	2.20	0.54
5:P:287:THR:N	5:P:290:GLU:OE1	2.41	0.54
3:D:1246:VAL:HG21	9:D:2550:HOH:O	2.06	0.54
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.89	0.54
2:M:497:ALA:HA	2:M:515:ALA:HA	1.88	0.54
2:C:123:GLU:HB2	9:C:2092:HOH:O	2.07	0.54
2:C:139:GLN:HG3	2:C:411:SER:O	2.07	0.54
2:C:724:ARG:HD2	2:C:740:GLU:HA	1.89	0.54
2:M:759:THR:HB	2:M:785:VAL:HG21	1.88	0.54
4:E:25:LYS:O	4:E:29:GLN:HG2	2.08	0.54
3:D:1065:LEU:HD11	3:D:1070:TYR:N	2.23	0.54
5:F:132:ARG:O	5:F:136:LEU:HG	2.07	0.54
3:N:1103:HIS:HD2	3:N:1462:LEU:N	2.06	0.54
3:D:465:LEU:HD13	9:D:2007:HOH:O	2.08	0.54
5:P:93:LEU:HA	5:P:98:GLU:OE1	2.08	0.54
2:M:253:ALA:HB3	9:M:2207:HOH:O	2.08	0.54
2:M:897:LEU:HB3	2:M:899:GLN:NE2	2.19	0.54
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.38	0.54
1:L:115:LEU:O	1:L:115:LEU:HD12	2.08	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:962:GLN:O	3:N:966:GLU:HG3	2.08	0.54
3:N:661:MET:CE	3:N:677:LEU:HD11	2.38	0.54
1:L:84:GLU:HG3	1:L:127:LEU:HD22	1.88	0.54
2:C:124:ASP:CB	2:C:592:LEU:HD12	2.37	0.54
2:C:567:GLN:HB2	2:C:997:LEU:HD22	1.90	0.54
2:M:63:GLY:HA3	2:M:103:LYS:HE2	1.89	0.54
3:N:1372:VAL:HA	3:N:1375:MET:HG3	1.90	0.54
2:M:432:ARG:CZ	2:M:519:GLY:HA3	2.38	0.54
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.08	0.54
2:M:1115:LEU:HD11	9:M:9579:HOH:O	2.07	0.54
2:M:537:LYS:HA	2:M:545:ASN:HD21	1.73	0.54
2:C:877:PRO:HG3	3:D:1020:LEU:HD12	1.89	0.54
3:D:84:ILE:O	3:D:87:ARG:HG3	2.07	0.54
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.23	0.54
3:D:510:GLU:HB3	9:D:9600:HOH:O	2.08	0.54
2:M:577:PRO:HG3	2:M:993:PHE:CE2	2.43	0.54
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.71	0.54
4:E:13:VAL:HG23	9:E:9552:HOH:O	2.06	0.54
4:E:48:MET:CB	4:E:54:LEU:HB2	2.38	0.54
3:D:850:LEU:O	3:D:853:VAL:HB	2.08	0.54
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.89	0.54
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.73	0.54
5:F:356:LYS:O	5:F:360:LYS:HG2	2.07	0.54
4:O:94:PRO:HG3	9:O:5923:HOH:O	2.06	0.54
2:M:650:ARG:HD2	2:M:653:ASP:OD2	2.08	0.54
3:N:871:LYS:HE2	9:N:9777:HOH:O	2.07	0.54
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.90	0.54
2:C:983:ILE:HG23	3:D:944:THR:O	2.08	0.54
3:D:42:ASP:O	3:D:43:GLY:O	2.25	0.54
5:P:184:ARG:HD3	5:P:188:ILE:HD11	1.90	0.54
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.90	0.54
3:D:502:PHE:CZ	3:D:509:PRO:HB3	2.42	0.54
3:D:399:ARG:NH2	3:D:432:TYR:HE2	2.06	0.54
1:L:40:LEU:HD11	9:L:4428:HOH:O	2.08	0.54
3:D:400:VAL:CG1	3:D:441:ARG:HD3	2.38	0.54
2:M:724:ARG:CG	2:M:740:GLU:HA	2.38	0.54
3:N:32:ILE:HG12	3:N:38:LYS:O	2.08	0.54
1:K:198:ARG:HB2	1:K:200:TRP:CZ3	2.43	0.54
3:N:999:THR:O	3:N:1002:LYS:HB2	2.08	0.54
5:P:102:LEU:O	5:P:106:VAL:HG23	2.08	0.54
3:D:471:GLU:HG2	9:D:9659:HOH:O	2.07	0.54
3:N:1252:ILE:H	3:N:1252:ILE:HD12	1.72	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1503:VAL:HG12	9:N:9617:HOH:O	2.08	0.54
4:O:85:LEU:HD23	4:O:86:GLN:N	2.23	0.54
3:N:799:LYS:H	3:N:826:PRO:HG2	1.72	0.54
2:M:580:MET:HB3	2:M:584:GLU:OE1	2.08	0.54
1:A:93:SER:HB2	9:A:9533:HOH:O	2.06	0.54
3:N:981:GLY:HA3	9:N:2378:HOH:O	2.07	0.54
2:C:794:PRO:HB3	9:C:9647:HOH:O	2.07	0.54
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.38	0.54
1:K:216:GLU:O	1:K:220:GLU:HG3	2.07	0.54
1:A:50:GLY:O	1:A:146:ARG:HA	2.07	0.53
3:D:1087:ARG:HD2	3:D:1256:LEU:HD22	1.90	0.53
2:C:436:GLY:HA2	2:C:538:GLN:O	2.08	0.53
2:C:536:PRO:HB2	2:C:905:ILE:HD13	1.89	0.53
2:C:1008:ARG:HE	2:C:1028:GLY:H	1.56	0.53
2:C:1070:ILE:HA	9:C:9807:HOH:O	2.07	0.53
3:D:560:GLN:HG3	5:F:221:ILE:HG21	1.89	0.53
4:E:88:GLU:HB2	9:E:9594:HOH:O	2.07	0.53
3:N:1379:VAL:HA	3:N:1420:LEU:HB2	1.91	0.53
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.73	0.53
2:M:460:ARG:O	2:M:468:ARG:HG3	2.08	0.53
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.37	0.53
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.90	0.53
2:M:714:ASP:HB2	9:M:2167:HOH:O	2.07	0.53
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.28	0.53
2:M:604:ALA:HB3	2:M:612:VAL:O	2.08	0.53
3:D:149:LYS:HE3	9:D:2297:HOH:O	2.08	0.53
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.29	0.53
1:B:137:ARG:HB2	9:B:9548:HOH:O	2.07	0.53
1:L:180:GLN:HG2	9:N:9580:HOH:O	2.07	0.53
1:A:160:ASP:HB2	9:A:9521:HOH:O	2.08	0.53
3:N:455:ARG:HH21	5:P:140:ARG:HD3	1.73	0.53
2:C:358:ARG:HB3	2:C:371:LYS:O	2.09	0.53
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.90	0.53
3:N:756:GLN:HE21	3:N:760:ARG:HD2	1.72	0.53
2:C:464:LEU:O	2:C:466:PHE:N	2.40	0.53
2:C:437:ARG:HG3	2:C:469:THR:OG1	2.07	0.53
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	2.08	0.53
2:M:961:GLU:HA	9:M:9902:HOH:O	2.07	0.53
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.73	0.53
2:M:163:ILE:HB	9:M:2375:HOH:O	2.08	0.53
3:D:516:ALA:O	3:D:518:PRO:HD3	2.09	0.53
2:M:460:ARG:HD3	9:M:2017:HOH:O	2.07	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:984:THR:HG23	3:N:986:ARG:H	1.73	0.53
2:M:1093:GLN:HB3	3:N:90:MET:CE	2.38	0.53
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.72	0.53
5:P:291:ILE:CG2	5:P:304:VAL:HG21	2.38	0.53
3:D:1379:VAL:HG12	3:D:1419:PRO:HA	1.89	0.53
3:D:844:ALA:HA	3:D:867:ARG:NH1	2.22	0.53
2:C:553:ASP:HA	2:C:881:ASN:HA	1.89	0.53
2:C:926:PHE:CD2	2:C:930:LYS:HE2	2.43	0.53
3:N:792:ILE:O	3:N:878:GLY:HA3	2.08	0.53
1:K:170:VAL:HG12	9:K:5166:HOH:O	2.07	0.53
2:C:937:ASP:HB2	2:C:940:GLU:HG3	1.89	0.53
3:D:667:ALA:HB2	3:D:676:MET:CE	2.38	0.53
4:O:90:GLU:HA	9:O:4524:HOH:O	2.08	0.53
2:C:242:LEU:HD23	9:C:9503:HOH:O	2.08	0.53
2:C:72:ARG:HE	2:C:97:ARG:NH1	2.06	0.53
9:C:9784:HOH:O	3:D:943:THR:HG21	2.08	0.53
3:D:89:ARG:O	3:D:521:PRO:HG3	2.08	0.53
2:C:516:ARG:NH2	3:D:1068:LEU:HB3	2.23	0.53
3:N:30:GLU:HB3	3:N:40:GLU:HB3	1.90	0.53
3:D:15:PRO:HA	3:D:18:ILE:HG12	1.90	0.53
5:P:363:GLU:HA	5:P:367:MET:CE	2.37	0.53
3:D:1264:GLU:OE2	3:D:1424:VAL:N	2.41	0.53
1:K:14:ARG:HH12	1:K:24:VAL:HG23	1.73	0.53
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.44	0.53
2:M:358:ARG:HB3	2:M:371:LYS:O	2.08	0.53
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.91	0.53
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.38	0.53
2:C:173:ASP:O	2:C:184:MET:HA	2.08	0.53
2:C:176:VAL:C	2:C:178:PRO:HD3	2.28	0.53
2:M:514:VAL:HG11	2:M:516:ARG:NH1	2.23	0.53
2:C:350:ARG:HG2	2:C:353:ARG:NH2	2.24	0.53
2:C:927:GLY:HA2	2:C:930:LYS:HE3	1.90	0.53
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.90	0.53
3:D:789:LEU:O	3:D:792:ILE:HG23	2.08	0.53
3:D:647:ARG:NH1	3:D:650:LEU:HD23	2.24	0.53
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.72	0.53
3:D:769:LEU:H	3:D:769:LEU:HD12	1.74	0.53
3:N:1406:ARG:HG3	3:N:1406:ARG:HH11	1.73	0.53
1:A:34:VAL:HG21	2:C:939:ARG:HD2	1.90	0.53
1:B:83:LYS:HE2	1:B:168:ASP:HB2	1.89	0.53
2:C:741:GLY:HA3	9:C:9522:HOH:O	2.07	0.53
3:N:436:GLU:HB2	3:N:445:ARG:HB2	1.89	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:772:PRO:HA	9:N:9537:HOH:O	2.08	0.53
3:N:699:VAL:HG22	3:N:756:GLN:NE2	2.23	0.53
3:D:526:PRO:O	3:D:537:THR:HA	2.08	0.53
3:D:130:SER:HB3	3:D:132:TYR:CE1	2.43	0.53
1:A:30:ARG:NH2	1:A:191:ASP:HB2	2.24	0.53
9:M:9722:HOH:O	3:N:948:THR:HB	2.08	0.53
2:M:662:GLU:HB3	9:M:9635:HOH:O	2.07	0.53
2:C:41:ASN:N	2:C:41:ASN:ND2	2.55	0.53
3:N:1294:VAL:HB	9:N:2223:HOH:O	2.09	0.53
3:N:524:LEU:C	3:N:526:PRO:HD3	2.28	0.53
2:M:343:GLN:HG2	2:M:385:PHE:HB2	1.91	0.53
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.38	0.53
2:M:642:ARG:HG3	2:M:654:LEU:HD21	1.91	0.53
3:N:829:VAL:H	3:N:835:SER:HB2	1.73	0.53
5:F:307:THR:O	5:F:310:ILE:HG13	2.08	0.53
3:N:583:ASP:OD2	3:N:604:THR:HG21	2.09	0.53
2:M:379:GLU:HG2	9:M:2388:HOH:O	2.07	0.53
3:N:103:TRP:HH2	3:N:1447:LEU:HD23	1.73	0.53
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.90	0.53
3:N:631:ILE:HG21	3:N:745:MET:SD	2.48	0.53
3:N:102:ILE:HD13	3:N:586:ARG:HB2	1.88	0.53
3:D:126:VAL:O	3:D:132:TYR:HD1	1.91	0.53
3:D:955:VAL:HG11	3:D:1015:TYR:HE2	1.73	0.53
2:M:1012:PRO:HD2	2:M:1021:LEU:O	2.09	0.53
1:L:218:LEU:O	1:L:222:LEU:HG	2.08	0.53
3:D:1267:ARG:HH21	3:D:1331:ASP:CG	2.12	0.53
3:D:800:LYS:HD3	3:D:804:LEU:HD13	1.90	0.53
2:M:1050:GLN:HG3	9:N:2259:HOH:O	2.07	0.53
3:N:9:ARG:HA	3:N:1455:LYS:O	2.07	0.53
2:M:549:PHE:CZ	2:M:886:LEU:HD12	2.44	0.53
1:A:156:HIS:CD2	1:A:157:GLY:N	2.76	0.53
3:D:992:ILE:HD13	9:D:2530:HOH:O	2.08	0.53
1:K:83:LYS:HE2	1:K:168:ASP:H	1.73	0.53
3:N:1289:LYS:HE2	9:N:9835:HOH:O	2.09	0.53
1:K:44:LEU:O	1:K:174:VAL:HG21	2.08	0.53
2:M:247:PRO:HB3	9:M:2135:HOH:O	2.08	0.53
5:P:89:GLY:HA2	9:P:4587:HOH:O	2.08	0.53
2:C:64:LEU:CD1	2:C:100:LEU:HD13	2.39	0.53
3:N:52:PRO:HG3	3:N:78:VAL:HG22	1.90	0.53
3:D:445:ARG:HG2	3:D:445:ARG:HH11	1.74	0.53
3:D:85:VAL:HB	9:D:9784:HOH:O	2.07	0.53
3:N:906:GLN:HE22	3:N:910:SER:HB2	1.72	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:853:LEU:HD23	2:C:858:MET:HB2	1.91	0.53
2:C:876:VAL:HB	3:D:949:ILE:HG13	1.91	0.53
2:C:679:PHE:C	3:D:943:THR:HG22	2.28	0.53
9:C:9697:HOH:O	4:E:28:GLN:HG3	2.08	0.53
4:E:31:LEU:HD12	4:E:32:ARG:HD3	1.89	0.53
2:C:202:TYR:OH	2:C:304:LEU:HD22	2.09	0.53
2:C:302:VAL:C	2:C:305:PRO:HD2	2.29	0.53
3:D:1066:THR:CG2	3:D:1069:GLU:HG3	2.38	0.53
3:D:153:LEU:HD11	3:D:158:TYR:N	2.23	0.53
2:M:129:ILE:HG12	2:M:386:PHE:HB3	1.90	0.53
1:A:26:GLU:HB3	1:A:194:LYS:HG3	1.91	0.53
3:N:169:TYR:HA	3:N:392:SER:HA	1.91	0.53
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.24	0.53
3:N:1135:ARG:HG2	3:N:1136:LYS:HE3	1.90	0.53
3:D:1382:THR:HA	3:D:1389:LEU:HD13	1.91	0.53
5:P:234:LYS:HD2	5:P:236:SER:HB2	1.89	0.53
2:C:722:ILE:HG12	2:C:757:GLY:O	2.09	0.53
3:D:963:TYR:CD2	3:D:1002:LYS:HB3	2.43	0.53
4:E:41:GLU:HG3	9:E:9492:HOH:O	2.07	0.53
1:A:7:LYS:HD3	9:A:9619:HOH:O	2.08	0.53
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.91	0.53
3:D:554:LEU:O	3:D:558:LEU:HG	2.09	0.53
2:M:876:VAL:HA	9:M:9508:HOH:O	2.08	0.53
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	2.07	0.53
2:M:710:ILE:HD11	2:M:758:ARG:CZ	2.39	0.53
3:N:950:GLY:C	3:N:952:ASP:N	2.58	0.53
2:M:772:ARG:HD2	5:P:373:LYS:HD2	1.91	0.53
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.90	0.53
2:M:838:LYS:HE2	2:M:997:LEU:HD12	1.90	0.53
3:D:633:VAL:HG22	3:D:635:PRO:CD	2.37	0.53
1:K:38:ASN:HB3	1:K:39:PRO:HD3	1.90	0.53
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.90	0.53
1:A:18:ARG:O	1:A:207:PRO:HD3	2.07	0.53
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.90	0.53
1:L:92:PRO:HD3	9:L:6230:HOH:O	2.08	0.53
1:B:219:ARG:O	1:B:223:THR:HG23	2.09	0.53
3:N:1173:LEU:HD23	3:N:1174:LEU:HD23	1.90	0.53
2:M:73:LEU:HD22	2:M:118:ILE:HD11	1.90	0.53
2:M:987:ILE:HG23	9:M:9722:HOH:O	2.08	0.53
5:F:408:LEU:HA	5:F:411:HIS:CE1	2.43	0.53
2:M:1093:GLN:HB3	3:N:90:MET:HE1	1.89	0.53
3:D:95:LEU:HD21	3:D:574:LEU:HD11	1.90	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:863:VAL:HG21	9:N:9770:HOH:O	2.07	0.53
2:M:42:VAL:HA	9:M:2303:HOH:O	2.09	0.53
3:N:493:ARG:HG3	3:N:494:LYS:N	2.23	0.53
3:N:115:LEU:HD12	3:N:498:VAL:HG23	1.91	0.53
3:N:1494:ALA:HB1	4:O:88:GLU:OE2	2.09	0.53
2:C:739:GLU:HB3	9:C:9747:HOH:O	2.08	0.53
2:M:338:GLU:O	2:M:341:THR:HG22	2.08	0.53
1:L:149:GLY:O	1:L:171:PHE:HB2	2.08	0.53
2:M:610:ARG:HG2	9:M:9673:HOH:O	2.09	0.53
2:M:625:LEU:HD13	2:M:639:GLN:O	2.09	0.53
3:D:178:LEU:HD22	9:D:9887:HOH:O	2.08	0.53
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.28	0.53
5:F:215:GLU:HG2	9:F:9503:HOH:O	2.08	0.53
2:C:409:ARG:HH12	7:C:8001:RPT:H18	1.74	0.53
2:M:166:PRO:HD3	2:M:265:ARG:HB2	1.90	0.53
5:P:138:SER:O	5:P:141:VAL:HG12	2.09	0.53
2:C:405:ARG:HH12	2:C:563:ASN:HD22	1.53	0.53
2:C:6:PHE:CE2	2:C:913:GLU:HB3	2.44	0.53
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.90	0.53
2:C:625:LEU:HD13	2:C:639:GLN:O	2.08	0.53
3:D:1395:LEU:HB3	9:D:9895:HOH:O	2.08	0.53
5:F:282:LEU:HD12	5:F:284:ARG:O	2.09	0.53
3:N:681:ARG:HH11	3:N:681:ARG:HB3	1.74	0.53
1:B:14:ARG:HG2	9:B:9567:HOH:O	2.08	0.53
5:F:154:LYS:HZ2	5:F:154:LYS:HB2	1.73	0.53
2:C:496:ILE:HD12	2:C:496:ILE:H	1.74	0.53
5:P:277:GLN:O	5:P:280:GLN:HB3	2.09	0.53
3:N:636:GLN:HB2	9:N:2002:HOH:O	2.09	0.53
1:B:149:GLY:O	1:B:171:PHE:HB2	2.09	0.53
1:A:63:HIS:CD2	2:C:801:VAL:HG12	2.44	0.53
3:D:613:ARG:O	3:D:617:ASN:HB2	2.08	0.53
3:D:143:ASN:HD21	3:D:145:VAL:HG12	1.74	0.53
2:M:254:VAL:HG21	9:M:9516:HOH:O	2.08	0.53
3:N:566:ILE:HG12	5:P:217:ASN:ND2	2.23	0.53
5:F:373:LYS:HB2	9:F:9672:HOH:O	2.08	0.53
1:K:123:MET:O	1:K:125:PRO:HD3	2.08	0.53
2:C:405:ARG:HH21	2:C:566:THR:HG21	1.73	0.53
2:C:902:ILE:O	2:C:904:PRO:HD3	2.09	0.53
2:C:721:ARG:HA	9:C:9648:HOH:O	2.09	0.53
3:N:969:ARG:HA	9:N:2036:HOH:O	2.09	0.53
3:N:1459:LEU:HD13	3:N:1465:ASN:HD21	1.73	0.53
2:C:1002:GLU:HA	2:C:1006:HIS:HE1	1.73	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.91	0.53
3:N:1189:ARG:HB3	3:N:1189:ARG:HH11	1.73	0.53
3:N:204:LEU:HD21	9:N:9631:HOH:O	2.08	0.53
1:L:72:LYS:HE2	9:L:5229:HOH:O	2.09	0.53
3:N:404:GLU:HB3	3:N:414:ARG:CZ	2.39	0.53
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.09	0.53
2:M:907:ASP:HA	9:M:2423:HOH:O	2.09	0.53
3:N:14:SER:HB2	3:N:16:GLU:HG2	1.91	0.53
3:N:699:VAL:HG12	3:N:717:GLN:CA	2.37	0.52
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.25	0.52
3:N:1097:LYS:O	3:N:1101:VAL:HG23	2.08	0.52
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.91	0.52
3:D:57:GLU:CD	3:D:64:LYS:HE2	2.29	0.52
3:D:1105:ILE:HG13	9:D:9769:HOH:O	2.08	0.52
2:M:333:ILE:CD1	2:M:467:ILE:HG13	2.39	0.52
4:E:17:TYR:O	4:E:21:VAL:HG23	2.10	0.52
3:D:863:VAL:HG21	9:D:2215:HOH:O	2.09	0.52
3:N:1312:LEU:HB2	9:N:9707:HOH:O	2.10	0.52
4:O:79:LEU:HD11	9:O:4245:HOH:O	2.08	0.52
3:N:1503:VAL:HG11	9:N:9596:HOH:O	2.09	0.52
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.40	0.52
2:C:601:GLY:O	2:C:648:ARG:HA	2.10	0.52
3:N:1402:ALA:HB2	3:N:1415:VAL:CG2	2.39	0.52
2:M:380:ALA:O	2:M:384:GLU:HB2	2.09	0.52
5:P:347:GLN:HG3	9:P:3973:HOH:O	2.09	0.52
2:C:918:LEU:HB3	2:C:968:LEU:HD23	1.90	0.52
1:K:52:ALA:HA	9:K:3524:HOH:O	2.09	0.52
1:A:44:LEU:O	1:A:174:VAL:HG21	2.09	0.52
2:M:910:LYS:HG2	9:M:2099:HOH:O	2.08	0.52
5:F:107:GLU:HG2	9:F:9515:HOH:O	2.08	0.52
2:M:626:ARG:HA	9:M:9546:HOH:O	2.08	0.52
3:N:781:PRO:HB2	3:N:911:LEU:HD23	1.91	0.52
3:D:1068:LEU:HD23	3:D:1072:ILE:HG12	1.89	0.52
2:M:170:PRO:HG2	2:M:258:TYR:HD2	1.74	0.52
3:D:131:LYS:O	3:D:133:ILE:HD13	2.09	0.52
5:F:184:ARG:HE	5:F:188:ILE:HD11	1.74	0.52
2:M:460:ARG:HB3	2:M:460:ARG:HH11	1.74	0.52
3:N:800:LYS:HD2	9:N:2127:HOH:O	2.08	0.52
2:C:708:TYR:N	2:C:708:TYR:CD1	2.77	0.52
3:D:1274:ILE:HD11	3:D:1334:GLN:HB3	1.91	0.52
3:D:95:LEU:HD12	3:D:517:VAL:HG23	1.90	0.52
2:C:732:ALA:HB1	2:C:735:ARG:NH2	2.24	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:841:ASN:HD22	2:M:841:ASN:C	2.12	0.52
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.92	0.52
3:N:215:TYR:HA	9:N:9773:HOH:O	2.09	0.52
5:F:368:VAL:HG12	9:F:9483:HOH:O	2.08	0.52
2:C:811:PRO:HD2	2:C:813:VAL:HG22	1.91	0.52
3:D:957:PRO:CG	3:D:1007:VAL:HA	2.40	0.52
1:A:91:ASN:HB3	9:A:9551:HOH:O	2.10	0.52
4:O:33:HIS:CG	4:O:89:MET:HG2	2.43	0.52
3:N:916:TYR:O	3:N:919:PHE:HB3	2.09	0.52
3:D:1231:GLU:HG2	3:D:1232:PRO:N	2.25	0.52
3:N:732:VAL:HG13	9:N:9614:HOH:O	2.09	0.52
3:D:86:ARG:NH1	3:D:86:ARG:HG2	2.21	0.52
2:M:783:ARG:HB3	9:M:2452:HOH:O	2.08	0.52
2:C:516:ARG:CZ	3:D:1068:LEU:HB3	2.39	0.52
2:M:73:LEU:HD11	9:M:2198:HOH:O	2.08	0.52
9:A:9609:HOH:O	2:C:856:GLU:HB3	2.09	0.52
3:N:1382:THR:HG21	3:N:1418:LYS:HZ1	1.74	0.52
3:N:1104:GLU:O	3:N:1106:VAL:HG23	2.09	0.52
2:C:778:PHE:HB3	9:C:2430:HOH:O	2.10	0.52
2:M:464:LEU:O	2:M:466:PHE:N	2.43	0.52
2:C:346:VAL:HG12	9:C:9903:HOH:O	2.08	0.52
5:F:127:ILE:HD11	9:F:9599:HOH:O	2.08	0.52
2:C:1055:LEU:HD21	2:C:1079:PRO:HG3	1.91	0.52
2:M:1104:GLU:HA	3:N:6:ARG:HD2	1.92	0.52
2:M:376:ARG:HG2	9:M:2218:HOH:O	2.08	0.52
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.09	0.52
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.10	0.52
3:D:1192:LEU:HD21	3:D:1372:VAL:HG13	1.91	0.52
3:D:1496:GLU:HA	3:D:1499:ARG:HD2	1.90	0.52
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.39	0.52
3:N:462:GLN:HA	3:N:513:ILE:CD1	2.40	0.52
5:P:266:GLU:HA	5:P:269:ASN:ND2	2.24	0.52
2:M:801:VAL:O	2:M:802:ARG:HG3	2.10	0.52
3:N:1493:LYS:HA	3:N:1496:GLU:CG	2.39	0.52
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.39	0.52
5:P:403:LYS:HD2	9:P:3729:HOH:O	2.09	0.52
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.91	0.52
2:M:937:ASP:HB3	2:M:940:GLU:H	1.73	0.52
1:K:30:ARG:HG3	1:K:30:ARG:HH11	1.74	0.52
1:L:7:LYS:HG3	9:L:5022:HOH:O	2.09	0.52
3:N:52:PRO:HB2	9:N:9523:HOH:O	2.08	0.52
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.91	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:264:MET:O	5:P:268:ILE:HG13	2.08	0.52
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.45	0.52
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.91	0.52
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.37	0.52
2:M:902:ILE:O	2:M:904:PRO:HD3	2.10	0.52
3:D:584:ASN:ND2	3:D:589:ALA:HA	2.23	0.52
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.44	0.52
2:C:732:ALA:O	2:C:735:ARG:HG3	2.09	0.52
2:C:1033:GLY:HA2	3:D:619:LEU:O	2.09	0.52
1:L:14:ARG:HG2	9:L:5424:HOH:O	2.08	0.52
1:A:161:ARG:HB2	1:A:161:ARG:HH11	1.72	0.52
1:A:57:TYR:CE2	1:A:59:GLU:HA	2.45	0.52
2:C:165:LEU:HD13	9:C:9966:HOH:O	2.10	0.52
3:D:893:GLU:HA	9:D:9543:HOH:O	2.08	0.52
3:D:420:VAL:HG13	5:F:164:LYS:HE2	1.91	0.52
2:C:693:GLU:HG3	9:C:9813:HOH:O	2.10	0.52
1:A:149:GLY:O	1:A:171:PHE:HB2	2.09	0.52
2:C:52:PHE:HB3	2:C:53:PRO:HD3	1.89	0.52
2:C:328:LEU:HB2	2:C:488:ALA:CB	2.39	0.52
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.40	0.52
3:D:572:ARG:HB3	9:F:9505:HOH:O	2.09	0.52
2:C:195:LEU:HD23	2:C:238:LEU:HG	1.91	0.52
2:M:669:GLY:HA3	2:M:995:MET:HA	1.91	0.52
3:N:35:ARG:HG2	3:N:35:ARG:HH11	1.74	0.52
3:D:1144:LEU:HA	3:D:1147:ARG:HG3	1.90	0.52
2:M:881:ASN:ND2	2:M:881:ASN:H	2.08	0.52
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.39	0.52
2:C:182:VAL:CG1	2:C:193:LEU:HD13	2.39	0.52
5:P:269:ASN:CB	5:P:273:ARG:HH21	2.23	0.52
3:N:1243:THR:HG22	3:N:1244:GLY:H	1.74	0.52
2:C:918:LEU:HD23	2:C:967:PHE:O	2.09	0.52
3:N:1009:LYS:HG3	9:N:9751:HOH:O	2.08	0.52
2:M:807:ARG:NH1	2:M:807:ARG:HB2	2.24	0.52
5:P:336:GLU:CD	5:P:336:GLU:H	2.12	0.52
2:M:366:SER:HB2	9:M:9558:HOH:O	2.09	0.52
1:B:123:MET:O	1:B:125:PRO:HD3	2.10	0.52
2:M:1092:LEU:HD23	2:M:1097:LEU:HD23	1.92	0.52
1:A:46:SER:HB3	2:C:856:GLU:CG	2.38	0.52
3:D:641:GLN:HB3	3:D:717:GLN:O	2.10	0.52
3:D:890:VAL:HG23	9:D:2176:HOH:O	2.08	0.52
3:D:926:LYS:HE2	9:D:9484:HOH:O	2.08	0.52
3:N:972:LEU:HD11	9:N:9509:HOH:O	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:176:ARG:HB2	9:N:9671:HOH:O	2.08	0.52
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.91	0.52
2:C:708:TYR:CE2	2:C:793:PRO:HD2	2.41	0.52
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.91	0.52
5:F:166:LEU:HD13	5:F:170:HIS:HB2	1.92	0.52
3:D:838:ARG:HH11	3:D:874:GLU:HB3	1.73	0.52
3:D:36:THR:HB	3:D:38:LYS:HG3	1.91	0.52
3:D:721:VAL:HA	9:D:9665:HOH:O	2.08	0.52
1:L:50:GLY:O	1:L:146:ARG:HA	2.10	0.52
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.40	0.52
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.92	0.52
2:C:1081:VAL:HG21	2:C:1111:ILE:HG22	1.91	0.52
3:N:122:GLU:HG2	9:N:2158:HOH:O	2.09	0.52
4:E:29:GLN:HB3	9:E:9534:HOH:O	2.09	0.52
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.45	0.52
2:M:146:VAL:HG13	2:M:161:SER:O	2.09	0.52
3:D:126:VAL:O	3:D:132:TYR:CD1	2.62	0.52
3:N:516:ALA:O	3:N:518:PRO:HD3	2.10	0.52
3:D:724:GLN:C	3:D:724:GLN:HE21	2.13	0.52
2:M:1038:TRP:HH2	3:N:1096:ARG:HD2	1.74	0.52
1:A:176:ARG:HB3	9:A:9641:HOH:O	2.10	0.52
2:C:852:ILE:HD12	2:C:852:ILE:H	1.75	0.52
2:M:694:LEU:CD1	2:M:868:ASP:HB3	2.39	0.52
2:M:601:GLY:O	2:M:648:ARG:HA	2.10	0.52
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.38	0.52
3:N:1018:ASN:O	3:N:1022:VAL:HG23	2.10	0.52
2:C:839:LEU:HD21	2:C:849:VAL:CG2	2.40	0.52
1:K:32:PHE:HZ	1:L:47:SER:HG	1.56	0.52
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.44	0.52
3:D:1432:LYS:CG	3:D:1433:SER:H	2.22	0.52
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.74	0.52
3:D:62:LYS:HE2	3:D:75:ARG:NH1	2.25	0.52
2:C:813:VAL:HG13	9:C:9732:HOH:O	2.08	0.52
2:M:177:GLU:HB2	9:M:9838:HOH:O	2.09	0.52
3:D:897:TRP:CH2	3:D:902:LEU:HD21	2.45	0.52
3:D:1482:ARG:HB2	3:D:1483:PHE:CE1	2.44	0.52
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.91	0.52
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.40	0.52
3:D:45:PHE:HD1	3:D:86:ARG:HH21	1.56	0.52
3:D:455:ARG:HG2	3:D:455:ARG:NH1	2.25	0.52
2:C:1005:MET:CE	3:D:648:MET:HB2	2.40	0.52
2:M:1038:TRP:HA	2:M:1041:GLU:HB2	1.91	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:198:ARG:C	1:A:199:ILE:HD12	2.31	0.52
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.44	0.52
2:M:1091:GLU:HA	3:N:520:LEU:HD13	1.91	0.52
2:M:578:VAL:CG2	2:M:579:VAL:HG12	2.40	0.52
3:D:1011:PHE:HZ	3:D:1039:CYS:HG	1.56	0.52
3:D:925:GLU:HG2	3:D:926:LYS:N	2.24	0.52
4:E:48:MET:HB3	4:E:54:LEU:HB2	1.92	0.52
3:D:1342:GLU:H	3:D:1342:GLU:CD	2.13	0.52
2:C:281:LEU:CD1	2:C:306:THR:HA	2.39	0.52
3:N:1177:ALA:HB3	3:N:1183:ILE:HD11	1.91	0.52
2:C:4:LYS:HG2	9:C:9667:HOH:O	2.10	0.52
2:M:69:LEU:HD21	2:M:99:GLN:NE2	2.25	0.52
2:C:961:GLU:HA	9:C:2350:HOH:O	2.10	0.52
2:C:586:ARG:HD2	2:C:590:ASP:OD2	2.10	0.52
2:M:636:ALA:HB3	9:M:9891:HOH:O	2.09	0.52
9:D:2311:HOH:O	5:F:147:LEU:HD21	2.10	0.52
3:D:213:VAL:HG11	9:D:9853:HOH:O	2.09	0.52
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.75	0.52
5:P:128:ARG:HD3	9:P:3878:HOH:O	2.08	0.52
2:M:137:VAL:HG22	2:M:391:LEU:O	2.10	0.52
3:N:183:GLU:HA	3:N:186:VAL:CG1	2.40	0.52
3:D:653:PHE:CE2	3:D:695:ILE:HG13	2.44	0.52
2:M:840:ALA:HB2	2:M:846:LYS:HA	1.92	0.52
2:C:721:ARG:HH21	2:C:783:ARG:NH2	2.07	0.52
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.24	0.52
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.30	0.52
3:D:1379:VAL:O	3:D:1420:LEU:HD23	2.10	0.52
2:M:752:GLY:O	3:N:679:ARG:HG2	2.10	0.52
1:K:2:LEU:HD11	9:K:4002:HOH:O	2.09	0.52
2:C:198:ARG:HD3	9:C:9933:HOH:O	2.09	0.52
1:B:50:GLY:O	1:B:146:ARG:HA	2.10	0.52
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.10	0.52
3:N:75:ARG:HB2	9:N:9539:HOH:O	2.10	0.52
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.40	0.52
2:M:413:LEU:HD12	2:M:413:LEU:N	2.25	0.52
2:C:685:GLU:OE1	3:D:739:ASP:HA	2.10	0.52
2:M:142:ARG:NH1	2:M:325:ILE:HG12	2.25	0.52
5:P:337:HIS:H	5:P:337:HIS:CD2	2.28	0.52
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.39	0.52
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.92	0.52
3:N:731:LEU:HB2	9:N:9614:HOH:O	2.10	0.52
2:C:461:VAL:HG23	9:C:9546:HOH:O	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:566:ILE:HD13	5:F:217:ASN:HB3	1.91	0.52
2:C:694:LEU:CD1	2:C:868:ASP:HB3	2.40	0.52
2:C:773:LEU:HB2	5:F:373:LYS:CB	2.39	0.52
2:M:334:ARG:CZ	2:M:418:LEU:HD21	2.40	0.52
2:M:332:ARG:NH2	2:M:464:LEU:HD11	2.25	0.52
2:M:724:ARG:HG3	2:M:741:GLY:N	2.24	0.52
5:F:358:LEU:CD2	5:F:370:LYS:HE3	2.40	0.52
5:F:408:LEU:O	5:F:412:GLU:HG2	2.10	0.52
3:N:1443:THR:HG23	9:N:2462:HOH:O	2.10	0.52
1:A:9:PRO:HB3	1:A:25:LEU:HD21	1.92	0.52
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.92	0.52
3:D:30:GLU:HB3	3:D:40:GLU:CB	2.40	0.52
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.10	0.52
3:N:658:LEU:O	3:N:661:MET:HB2	2.09	0.52
3:N:135:LEU:HD11	3:N:452:ILE:HG13	1.91	0.52
3:N:459:GLU:HG3	3:N:460:ALA:N	2.24	0.52
1:L:125:PRO:HD2	9:L:4231:HOH:O	2.10	0.52
3:D:149:LYS:HA	9:D:9512:HOH:O	2.09	0.52
1:B:19:GLU:HG3	1:B:201:THR:O	2.09	0.52
2:M:1035:MET:HG2	3:N:707:THR:O	2.09	0.52
5:F:128:ARG:O	5:F:132:ARG:HG3	2.10	0.51
2:M:998:TYR:OH	2:M:1000:MET:HA	2.10	0.51
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.93	0.51
5:P:129:GLU:HB3	5:P:142:ARG:HH21	1.75	0.51
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.40	0.51
3:N:206:ARG:O	3:N:206:ARG:HD3	2.10	0.51
5:F:171:LYS:HE3	5:F:175:HIS:NE2	2.25	0.51
1:L:170:VAL:HG23	9:L:5477:HOH:O	2.10	0.51
3:N:1366:LYS:O	3:N:1369:GLU:HB2	2.10	0.51
3:N:789:LEU:O	3:N:792:ILE:HG23	2.09	0.51
1:L:19:GLU:O	1:L:201:THR:HG23	2.09	0.51
2:C:742:VAL:HG12	2:C:743:VAL:N	2.25	0.51
5:F:323:ASP:O	5:F:325:LYS:N	2.43	0.51
3:D:592:THR:N	3:D:600:LEU:HD21	2.24	0.51
3:D:1240:THR:HA	9:D:2338:HOH:O	2.09	0.51
2:C:101:ILE:HG22	2:C:102:HIS:N	2.25	0.51
2:C:333:ILE:HD12	2:C:333:ILE:N	2.25	0.51
2:C:333:ILE:HD13	2:C:467:ILE:HG13	1.92	0.51
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.75	0.51
2:M:148:PHE:CZ	2:M:281:LEU:HD13	2.45	0.51
5:F:132:ARG:NH2	5:F:184:ARG:NH1	2.59	0.51
2:C:1057:SER:HB2	3:D:622:ARG:O	2.09	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:123:LEU:HG	3:N:152:LEU:HD13	1.92	0.51
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.45	0.51
2:C:595:LEU:O	2:C:655:LEU:HG	2.10	0.51
5:F:420:ASP:O	5:F:422:LEU:HD23	2.11	0.51
2:M:461:VAL:HG22	9:M:9987:HOH:O	2.10	0.51
2:C:710:ILE:HD11	2:C:758:ARG:NH2	2.26	0.51
2:M:101:ILE:HG22	2:M:102:HIS:N	2.26	0.51
3:D:478:LEU:HD21	3:D:500:ARG:HH21	1.75	0.51
3:D:1290:LEU:HD22	3:D:1291:SER:H	1.75	0.51
3:D:1417:TRP:HE1	3:D:1419:PRO:HG3	1.75	0.51
3:D:491:LYS:HD3	3:D:492:ALA:N	2.26	0.51
3:D:480:GLU:O	3:D:484:PRO:HD2	2.10	0.51
9:M:2035:HOH:O	3:N:1456:LYS:HE2	2.10	0.51
1:A:18:ARG:HH11	1:A:123:MET:HE1	1.75	0.51
3:D:505:SER:HB3	9:D:9680:HOH:O	2.09	0.51
3:D:416:ALA:H	3:D:417:PRO:CD	2.23	0.51
2:C:65:VAL:HB	2:C:101:ILE:HB	1.92	0.51
3:N:423:ASP:HB2	5:P:178:ARG:CD	2.30	0.51
2:C:436:GLY:HA3	2:C:469:THR:HG21	1.92	0.51
2:C:89:THR:O	2:C:91:GLN:HG3	2.09	0.51
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.92	0.51
2:C:254:VAL:HG22	9:C:2339:HOH:O	2.10	0.51
1:A:26:GLU:CB	1:A:194:LYS:HG3	2.41	0.51
3:N:1380:GLU:HG3	3:N:1381:VAL:H	1.75	0.51
2:C:1030:GLN:HE22	3:D:628:ARG:NH2	2.08	0.51
2:M:679:PHE:HD1	2:M:870:ILE:HD13	1.74	0.51
2:M:890:LEU:HA	2:M:914:ILE:HD11	1.91	0.51
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.44	0.51
2:M:197:LEU:HD22	2:M:202:TYR:CD2	2.45	0.51
2:C:791:ARG:NH1	2:C:791:ARG:HB3	2.25	0.51
2:M:176:VAL:C	2:M:178:PRO:HD3	2.31	0.51
2:M:182:VAL:HB	2:M:192:PRO:HA	1.92	0.51
3:N:1066:THR:HG22	3:N:1069:GLU:HB2	1.90	0.51
2:M:498:GLN:HG3	2:M:516:ARG:HH21	1.75	0.51
2:M:739:GLU:HA	9:M:2220:HOH:O	2.09	0.51
2:C:209:ARG:O	2:C:213:ALA:HB2	2.11	0.51
3:N:404:GLU:OE1	3:N:414:ARG:HD3	2.10	0.51
3:D:974:ILE:HG22	9:D:9555:HOH:O	2.11	0.51
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.40	0.51
3:D:701:LEU:HD21	3:D:763:MET:HE1	1.93	0.51
3:D:1235:GLN:HB3	3:D:1359:GLN:HE22	1.75	0.51
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.38	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:603:LEU:O	3:D:606:ILE:HB	2.10	0.51
5:P:306:GLU:O	5:P:310:ILE:HG13	2.10	0.51
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.91	0.51
5:P:142:ARG:HH11	5:P:142:ARG:CB	2.22	0.51
1:B:182:GLU:O	1:B:194:LYS:HB3	2.11	0.51
1:L:91:ASN:O	1:L:94:LEU:HD12	2.09	0.51
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.44	0.51
2:M:257:VAL:HG22	9:M:9998:HOH:O	2.10	0.51
2:M:26:TYR:CE2	2:M:30:LEU:HD11	2.46	0.51
3:D:794:GLN:HG2	3:D:905:PRO:HB3	1.91	0.51
3:D:1149:LEU:HD12	3:D:1161:GLU:O	2.11	0.51
1:A:227:ASN:H	1:A:227:ASN:ND2	2.09	0.51
1:B:106:PRO:HB3	9:B:9545:HOH:O	2.10	0.51
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.39	0.51
5:P:323:ASP:O	5:P:325:LYS:N	2.43	0.51
3:N:637:LEU:HD11	3:N:642:CYS:N	2.26	0.51
3:D:44:LEU:O	3:D:525:ARG:NH2	2.43	0.51
3:D:540:LEU:HA	3:D:543:LEU:HD12	1.92	0.51
1:A:24:VAL:HG22	1:A:196:THR:HB	1.92	0.51
2:C:129:ILE:HD13	2:C:134:ARG:HB2	1.93	0.51
3:D:1066:THR:HG23	3:D:1068:LEU:H	1.75	0.51
3:D:1057:VAL:HA	3:D:1069:GLU:OE2	2.10	0.51
5:F:132:ARG:HG2	5:F:181:GLU:OE1	2.10	0.51
3:N:1380:GLU:HG3	3:N:1381:VAL:N	2.25	0.51
5:P:93:LEU:HG	5:P:190:ALA:CB	2.40	0.51
2:C:83:CYS:HA	2:C:88:LEU:HD23	1.92	0.51
2:M:52:PHE:HE1	2:M:66:LEU:HG	1.75	0.51
3:D:807:ALA:HA	9:D:9904:HOH:O	2.10	0.51
3:D:1318:TYR:HD1	3:D:1319:VAL:N	2.09	0.51
2:M:269:LEU:HD12	2:M:288:ARG:H	1.76	0.51
1:L:184:THR:O	1:L:192:LEU:HB2	2.10	0.51
1:K:94:LEU:HD21	1:K:119:ASP:HB2	1.93	0.51
5:P:416:ARG:HD2	5:P:419:ARG:HB3	1.91	0.51
4:O:70:THR:HB	4:O:72:ARG:HE	1.75	0.51
3:N:493:ARG:HH22	3:N:1388:ARG:HB3	1.76	0.51
3:D:887:ALA:HA	9:D:9543:HOH:O	2.09	0.51
5:P:323:ASP:C	5:P:325:LYS:H	2.14	0.51
1:L:121:GLU:HG3	9:L:3921:HOH:O	2.10	0.51
2:M:879:ARG:HH12	3:N:1029:ARG:HH22	1.58	0.51
3:N:52:PRO:HG3	3:N:78:VAL:HG13	1.92	0.51
2:C:886:LEU:HD23	3:D:951:ILE:HG13	1.91	0.51
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:166:PRO:HG3	2:M:265:ARG:HE	1.74	0.51
2:C:1014:SER:HA	9:F:9484:HOH:O	2.11	0.51
2:C:1014:SER:OG	5:F:331:ASP:HA	2.11	0.51
3:N:119:SER:HB2	3:N:123:LEU:CB	2.40	0.51
3:D:1209:LEU:HD21	4:E:16:LYS:HZ2	1.73	0.51
3:D:704:ARG:HB2	3:D:736:PHE:CD2	2.46	0.51
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.37	0.51
2:C:565:GLN:OE1	2:C:842:ARG:HG2	2.11	0.51
3:N:1112:CYS:HB2	3:N:1195:GLN:CD	2.30	0.51
3:D:890:VAL:HG11	3:D:922:LEU:HD13	1.93	0.51
2:M:1086:ARG:HB3	2:M:1112:PHE:CE2	2.45	0.51
2:C:132:ALA:HB1	2:C:632:ASN:ND2	2.23	0.51
1:A:219:ARG:CZ	1:B:219:ARG:HG2	2.41	0.51
2:C:958:THR:HG23	2:C:961:GLU:H	1.74	0.51
3:N:937:TYR:O	3:N:941:PHE:HD1	1.93	0.51
1:B:18:ARG:O	1:B:207:PRO:HD3	2.11	0.51
1:B:23:PHE:HE2	1:B:199:ILE:HD12	1.76	0.51
1:A:146:ARG:HD2	9:A:9500:HOH:O	2.10	0.51
1:K:133:GLU:OE1	2:M:605:LYS:HB3	2.11	0.51
3:N:421:LEU:HD12	3:N:435:VAL:CG1	2.41	0.51
2:C:437:ARG:HA	2:C:467:ILE:HG21	1.91	0.51
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.75	0.51
2:M:759:THR:HB	2:M:785:VAL:CG2	2.41	0.51
4:E:64:ALA:HA	4:E:67:GLU:CD	2.31	0.51
2:C:495:THR:HB	2:C:530:GLU:HG3	1.93	0.51
3:D:154:THR:HA	9:D:9863:HOH:O	2.10	0.51
3:N:565:ILE:CD1	5:P:189:GLU:HG2	2.41	0.51
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.10	0.51
2:M:232:GLU:O	2:M:235:LEU:HB2	2.10	0.51
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.93	0.51
3:D:519:VAL:HG13	3:D:544:TYR:CE1	2.46	0.51
2:M:182:VAL:HG13	9:M:9636:HOH:O	2.08	0.51
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.10	0.51
1:K:95:GLN:HG2	1:K:146:ARG:HH12	1.74	0.51
3:N:1492:LEU:O	3:N:1496:GLU:HG2	2.11	0.51
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.93	0.51
3:D:36:THR:O	3:D:38:LYS:N	2.44	0.51
3:D:970:LYS:HB2	3:D:970:LYS:NZ	2.25	0.51
9:M:9978:HOH:O	5:P:345:ALA:HB1	2.09	0.51
2:M:877:PRO:HB3	3:N:1020:LEU:HD13	1.93	0.51
2:M:122:THR:HG21	9:M:2321:HOH:O	2.11	0.51
2:C:663:ASN:HB2	9:C:2433:HOH:O	2.11	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:864:VAL:HG12	3:D:865:THR:H	1.75	0.51
3:N:539:ASP:HB3	9:N:9742:HOH:O	2.11	0.51
3:N:546:ARG:CZ	3:N:550:ARG:HH22	2.22	0.51
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.46	0.51
2:C:876:VAL:HB	2:C:877:PRO:HD3	1.92	0.51
2:M:783:ARG:HG2	2:M:785:VAL:HG12	1.92	0.51
2:M:976:ASP:OD1	2:M:978:ARG:HG3	2.11	0.51
2:M:958:THR:HG23	9:M:9678:HOH:O	2.10	0.51
3:D:908:LYS:HG2	3:D:1027:GLY:HA3	1.91	0.51
2:M:392:SER:O	7:M:8002:RPT:H371	2.11	0.51
2:C:901:TYR:CE2	2:C:917:LEU:HD13	2.46	0.51
2:C:238:LEU:HB2	9:C:2083:HOH:O	2.11	0.51
3:D:530:VAL:HB	3:D:534:ARG:CB	2.38	0.51
2:M:676:ILE:HG23	9:M:9722:HOH:O	2.10	0.51
1:A:11:PHE:HD1	1:A:25:LEU:HD12	1.76	0.51
3:D:829:VAL:HG21	9:D:9486:HOH:O	2.10	0.51
3:D:1292:VAL:H	3:D:1305:LEU:HD21	1.76	0.51
3:N:1020:LEU:HA	3:N:1023:MET:CE	2.41	0.51
3:D:797:LYS:NZ	3:D:1016:PRO:HB3	2.26	0.51
3:D:959:GLU:CD	3:D:959:GLU:H	2.12	0.51
3:N:823:LEU:H	3:N:823:LEU:HD23	1.76	0.51
3:N:423:ASP:HB3	5:P:175:HIS:HA	1.93	0.51
2:C:328:LEU:HD23	2:C:437:ARG:HD3	1.93	0.51
3:N:183:GLU:O	3:N:186:VAL:HG12	2.11	0.51
1:A:70:GLY:HA2	1:A:133:GLU:OE2	2.09	0.51
2:M:777:ILE:HG22	2:M:778:PHE:CD1	2.45	0.51
2:C:292:ARG:HG2	9:C:2101:HOH:O	2.11	0.51
3:D:704:ARG:HH11	3:D:738:ALA:HA	1.75	0.51
5:F:260:ILE:HG23	5:F:264:MET:CG	2.40	0.51
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.93	0.51
1:K:117:VAL:HG22	9:K:3709:HOH:O	2.10	0.51
3:D:1333:HIS:CE1	3:D:1421:LEU:HD23	2.45	0.51
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.92	0.51
3:D:770:LEU:HG	3:D:919:PHE:HE1	1.75	0.51
4:E:91:ARG:HD2	9:E:9516:HOH:O	2.11	0.51
3:N:180:LYS:O	3:N:184:GLU:HG3	2.11	0.51
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.11	0.51
2:C:1027:PHE:HA	9:C:9777:HOH:O	2.10	0.51
2:C:1083:GLU:HG2	9:C:9596:HOH:O	2.11	0.51
3:D:49:ILE:HB	3:D:50:PHE:CD1	2.45	0.51
3:N:105:VAL:HG21	3:N:128:TYR:CE2	2.35	0.51
2:M:145:GLY:C	2:M:163:ILE:HG23	2.31	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:405:ARG:NH2	2:M:566:THR:HG21	2.26	0.51
3:D:750:PRO:HB2	3:D:756:GLN:OE1	2.11	0.51
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.93	0.51
1:B:184:THR:HG23	1:B:192:LEU:HB3	1.93	0.51
2:C:760:SER:O	2:C:785:VAL:HG22	2.10	0.51
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.11	0.51
1:L:109:VAL:HG21	1:L:138:LEU:HD21	1.92	0.51
1:L:215:VAL:HG21	9:L:5732:HOH:O	2.10	0.51
5:F:352:GLU:HG3	9:F:9610:HOH:O	2.11	0.51
2:M:257:VAL:HA	9:M:2289:HOH:O	2.11	0.51
2:C:520:GLU:HB2	9:C:2128:HOH:O	2.11	0.51
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.76	0.51
2:M:132:ALA:HB1	2:M:632:ASN:ND2	2.26	0.51
2:C:28:ARG:HG3	2:C:40:GLU:OE1	2.10	0.51
3:D:1410:GLU:HG2	9:D:2012:HOH:O	2.10	0.51
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.10	0.50
2:M:872:ASN:ND2	2:M:874:LEU:HB2	2.26	0.50
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.93	0.50
2:C:1081:VAL:HG12	2:C:1086:ARG:HE	1.76	0.50
3:D:566:ILE:HG23	5:F:217:ASN:HD22	1.77	0.50
5:P:366:ALA:HB3	5:P:367:MET:HE2	1.94	0.50
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.41	0.50
3:N:209:ARG:HG3	9:N:2381:HOH:O	2.09	0.50
2:M:420:ARG:CD	2:M:420:ARG:H	2.22	0.50
5:P:416:ARG:HB3	5:P:419:ARG:HG2	1.93	0.50
5:P:419:ARG:O	5:P:421:PHE:N	2.44	0.50
3:D:1150:ALA:HA	9:D:2006:HOH:O	2.10	0.50
1:B:75:VAL:O	1:B:79:ILE:HG23	2.11	0.50
5:P:101:GLU:HA	5:P:104:ARG:NH1	2.26	0.50
3:N:603:LEU:O	3:N:606:ILE:HB	2.11	0.50
2:C:971:LYS:HD2	2:C:986:PRO:HB2	1.92	0.50
1:A:211:LEU:O	1:A:215:VAL:HG13	2.11	0.50
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.92	0.50
3:D:965:GLU:HG3	3:D:969:ARG:NH2	2.23	0.50
2:M:265:ARG:HB3	2:M:267:TYR:CE2	2.46	0.50
2:M:682:TYR:N	9:M:9536:HOH:O	2.44	0.50
3:N:12:LEU:HB2	9:N:9590:HOH:O	2.11	0.50
3:N:737:ASN:HA	9:N:9612:HOH:O	2.10	0.50
2:C:523:ILE:HG21	9:D:2662:HOH:O	2.12	0.50
5:F:362:SER:HB2	9:F:9725:HOH:O	2.10	0.50
3:N:1281:VAL:HG21	3:N:1313:VAL:CG2	2.40	0.50
3:D:161:LEU:HD13	3:D:452:ILE:HD12	1.94	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1136:LYS:HB2	3:D:1139:ASP:OD2	2.11	0.50
2:C:338:GLU:O	2:C:341:THR:HG22	2.11	0.50
1:K:68:ILE:HA	9:K:4093:HOH:O	2.11	0.50
2:C:572:ILE:HG21	2:C:703:ILE:HD13	1.93	0.50
2:C:162:ILE:HB	2:C:172:ILE:HD13	1.93	0.50
3:D:1063:GLU:HG2	3:D:1064:GLY:H	1.76	0.50
2:M:841:ASN:HB2	9:M:9839:HOH:O	2.11	0.50
2:C:21:ILE:HD12	2:C:21:ILE:H	1.76	0.50
2:M:1051:GLU:HG3	2:M:1055:LEU:HB2	1.92	0.50
2:M:721:ARG:HH22	2:M:785:VAL:HG21	1.76	0.50
3:D:132:TYR:HD2	9:D:9863:HOH:O	1.93	0.50
5:F:126:LEU:O	5:F:130:VAL:HG23	2.11	0.50
2:M:676:ILE:O	2:M:676:ILE:HG23	2.10	0.50
2:C:80:GLN:HG2	2:C:90:TYR:CE2	2.47	0.50
2:M:333:ILE:HD12	2:M:465:GLY:O	2.11	0.50
3:N:814:ALA:HB3	9:N:2003:HOH:O	2.11	0.50
2:M:666:LEU:HD12	2:M:667:ALA:H	1.76	0.50
2:M:996:LYS:HD2	9:M:9662:HOH:O	2.11	0.50
3:N:434:ARG:HB2	3:N:447:VAL:CG1	2.41	0.50
4:O:51:LEU:HG	4:O:53:GLY:N	2.26	0.50
2:C:625:LEU:O	2:C:627:ARG:N	2.45	0.50
1:K:97:VAL:HG23	9:K:3291:HOH:O	2.11	0.50
3:D:1324:PRO:HG3	3:D:1330:ILE:HD11	1.92	0.50
3:N:574:LEU:O	3:N:577:ALA:HB3	2.11	0.50
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.45	0.50
3:N:1493:LYS:HD3	3:N:1496:GLU:OE2	2.12	0.50
3:N:1156:LEU:CD1	3:N:1176:LYS:HD2	2.41	0.50
1:A:156:HIS:NE2	1:A:166:PRO:HB3	2.26	0.50
3:N:14:SER:OG	3:N:17:LYS:HB2	2.11	0.50
2:M:132:ALA:HB1	2:M:632:ASN:HD21	1.77	0.50
3:N:39:PRO:HD2	9:N:2247:HOH:O	2.11	0.50
5:F:258:ILE:HB	9:F:9558:HOH:O	2.12	0.50
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.93	0.50
1:B:72:LYS:HE2	1:B:131:THR:OG1	2.11	0.50
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.40	0.50
1:A:14:ARG:NH1	1:A:24:VAL:HG23	2.26	0.50
4:E:64:ALA:O	4:E:67:GLU:HG3	2.12	0.50
3:N:119:SER:N	3:N:123:LEU:HD22	2.22	0.50
2:M:462:ASP:HA	9:M:2351:HOH:O	2.12	0.50
1:K:19:GLU:HB3	9:K:4176:HOH:O	2.11	0.50
3:D:519:VAL:HA	3:D:544:TYR:OH	2.12	0.50
3:N:108:VAL:CG2	3:N:109:PRO:HD3	2.40	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:112:ALA:HA	5:F:173:TYR:CD2	2.46	0.50
1:B:13:VAL:HG13	1:B:23:PHE:CD1	2.46	0.50
1:B:189:ARG:HH11	1:B:189:ARG:HG3	1.75	0.50
3:D:762:GLN:NE2	4:E:20:THR:HG21	2.26	0.50
1:A:183:ASP:HB3	9:A:9649:HOH:O	2.10	0.50
2:C:425:PHE:HB2	9:C:9673:HOH:O	2.11	0.50
2:C:436:GLY:O	2:C:459:ALA:HB2	2.12	0.50
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	1.94	0.50
3:N:131:LYS:HB3	9:N:2083:HOH:O	2.11	0.50
2:M:964:LYS:HB3	9:M:9902:HOH:O	2.11	0.50
5:P:366:ALA:HB3	5:P:367:MET:CE	2.42	0.50
3:N:1136:LYS:H	3:N:1136:LYS:HE3	1.76	0.50
3:D:493:ARG:NH1	3:D:1390:LEU:H	2.08	0.50
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.46	0.50
2:M:304:LEU:HD23	2:M:305:PRO:HD3	1.92	0.50
5:F:111:GLU:O	5:F:115:LYS:HG2	2.11	0.50
2:C:230:ARG:HG3	9:C:9560:HOH:O	2.11	0.50
3:D:826:PRO:HB3	3:D:828:LYS:NZ	2.27	0.50
1:L:180:GLN:HG3	9:L:3887:HOH:O	2.10	0.50
2:C:886:LEU:HG	3:D:951:ILE:HG13	1.93	0.50
2:C:302:VAL:O	2:C:305:PRO:HD2	2.12	0.50
1:B:38:ASN:HB2	9:B:9725:HOH:O	2.10	0.50
3:N:420:VAL:O	5:P:164:LYS:HD3	2.12	0.50
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.40	0.50
2:M:768:THR:CB	2:M:771:GLU:HB3	2.41	0.50
2:C:462:ASP:HA	9:C:9665:HOH:O	2.11	0.50
5:F:109:GLY:O	5:F:113:ILE:HG13	2.12	0.50
4:O:32:ARG:HB3	9:O:5813:HOH:O	2.11	0.50
3:D:500:ARG:HH22	3:D:1388:ARG:HH11	1.60	0.50
2:M:984:GLU:HA	9:M:2224:HOH:O	2.10	0.50
2:M:197:LEU:HD22	2:M:202:TYR:HD2	1.75	0.50
3:D:1192:LEU:CD2	3:D:1345:GLU:HG2	2.39	0.50
2:M:841:ASN:HD21	2:M:845:ASN:H	1.59	0.50
2:M:260:LEU:HA	2:M:291:ALA:CB	2.42	0.50
2:M:160:ALA:O	2:M:173:ASP:HA	2.12	0.50
5:P:261:PRO:O	5:P:265:VAL:HG23	2.11	0.50
3:N:960:LYS:HB3	9:N:9922:HOH:O	2.12	0.50
2:M:637:LEU:HA	2:M:659:PRO:HG3	1.94	0.50
2:M:872:ASN:HD21	2:M:874:LEU:HB2	1.76	0.50
2:C:724:ARG:CG	2:C:740:GLU:HA	2.42	0.50
3:N:546:ARG:NH1	3:N:550:ARG:HH22	2.09	0.50
2:C:413:LEU:HD12	2:C:413:LEU:N	2.27	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.27	0.50
1:A:197:LEU:HD23	1:A:197:LEU:N	2.26	0.50
2:M:721:ARG:O	2:M:758:ARG:HA	2.11	0.50
2:C:432:ARG:HD3	3:D:1048:PRO:CG	2.42	0.50
3:N:559:ALA:O	5:P:132:ARG:NH2	2.44	0.50
5:F:220:LEU:HD21	9:F:9537:HOH:O	2.12	0.50
1:K:184:THR:O	1:K:192:LEU:HD12	2.12	0.50
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.42	0.50
2:C:1008:ARG:HE	2:C:1028:GLY:CA	2.24	0.50
5:P:358:LEU:HD21	5:P:370:LYS:HE3	1.94	0.50
2:M:143:SER:HB2	2:M:332:ARG:HB2	1.93	0.50
1:K:123:MET:C	1:K:125:PRO:HD3	2.32	0.50
2:C:561:GLY:HA3	2:C:842:ARG:O	2.11	0.50
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.42	0.50
3:D:1336:LEU:HD21	3:D:1419:PRO:O	2.12	0.50
3:D:677:LEU:HD21	3:D:687:VAL:HG21	1.94	0.50
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.94	0.50
2:C:161:SER:HB3	9:C:2166:HOH:O	2.11	0.50
3:D:872:ARG:HB3	9:D:9540:HOH:O	2.11	0.50
2:M:580:MET:HB3	2:M:584:GLU:CD	2.30	0.50
2:C:508:ILE:HG21	9:C:9927:HOH:O	2.12	0.50
2:M:821:GLU:HA	9:M:9975:HOH:O	2.12	0.50
3:D:1103:HIS:CD2	3:D:1463:LYS:H	2.30	0.50
1:A:16:GLN:NE2	1:A:17:GLY:N	2.60	0.50
5:F:237:THR:HB	9:F:9628:HOH:O	2.11	0.50
1:K:133:GLU:CD	2:M:605:LYS:HB3	2.33	0.50
3:N:1045:MET:HA	9:N:2418:HOH:O	2.12	0.50
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.42	0.50
3:D:211:VAL:HG13	3:D:393:ILE:HA	1.93	0.50
7:C:8001:RPT:H422	9:C:9511:HOH:O	2.11	0.50
3:D:1047:LYS:HG2	3:D:1053:PHE:CE2	2.46	0.50
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.42	0.50
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.76	0.50
3:N:28:LYS:CB	3:N:41:ARG:HD2	2.42	0.50
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.42	0.50
3:D:465:LEU:HD22	3:D:509:PRO:O	2.12	0.50
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.93	0.50
2:C:137:VAL:HG21	2:C:393:GLN:HE21	1.76	0.50
1:A:101:LEU:HD11	1:A:113:ASP:HB2	1.94	0.50
3:D:1440:PHE:HD1	3:D:1441:GLN:H	1.59	0.50
3:N:959:GLU:HG3	3:N:1006:ALA:HB1	1.94	0.50
5:P:419:ARG:HH11	5:P:419:ARG:HB2	1.77	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:630:ARG:HH22	2:C:707:ARG:HB2	1.76	0.50
5:P:225:GLU:HG3	5:P:226:LYS:HG2	1.94	0.50
2:C:404:LEU:HD13	9:C:9579:HOH:O	2.12	0.50
2:M:693:GLU:HA	2:M:696:LYS:HG3	1.94	0.50
2:M:413:LEU:HD12	2:M:413:LEU:H	1.77	0.50
5:F:323:ASP:C	5:F:325:LYS:H	2.15	0.50
2:M:1019:GLN:HE22	3:N:621:LYS:HA	1.76	0.50
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.94	0.50
2:M:808:ARG:HG2	2:M:808:ARG:HH11	1.75	0.50
3:N:1169:ASP:HB2	9:N:2387:HOH:O	2.12	0.50
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.43	0.50
2:M:605:LYS:HD3	2:M:610:ARG:NH2	2.26	0.50
3:N:573:MET:SD	5:P:210:LEU:HD22	2.51	0.50
2:M:289:THR:HG22	2:M:290:LEU:H	1.76	0.50
3:D:521:PRO:O	3:D:525:ARG:HG2	2.12	0.50
3:D:607:LEU:HB3	3:D:614:PHE:CE2	2.47	0.50
3:N:126:VAL:O	3:N:132:TYR:HD1	1.94	0.50
3:D:796:ARG:NH1	3:D:861:GLN:HB2	2.25	0.50
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.25	0.50
2:C:952:LEU:HB3	2:C:966:LEU:CD1	2.42	0.50
3:D:637:LEU:HD12	3:D:641:GLN:OE1	2.12	0.50
2:M:367:LEU:O	2:M:372:LEU:HD13	2.12	0.50
3:N:966:GLU:HG2	9:N:9886:HOH:O	2.11	0.50
2:M:1016:ILE:CD1	5:P:317:LEU:HD21	2.42	0.50
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.94	0.50
3:N:10:ILE:HD11	3:N:1434:TRP:NE1	2.26	0.50
4:E:9:LEU:HD22	4:E:19:LEU:HD13	1.94	0.50
3:N:879:ARG:HH21	3:N:903:ASP:C	2.14	0.50
3:D:1108:ARG:HH12	3:D:1460:ILE:HG22	1.77	0.50
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.41	0.50
4:O:84:ARG:NH1	9:O:4797:HOH:O	2.44	0.50
2:C:25:SER:CB	2:C:335:THR:HB	2.42	0.50
2:M:594:ALA:HB1	2:M:654:LEU:HD12	1.92	0.50
3:N:493:ARG:O	3:N:497:GLU:HG3	2.11	0.50
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.47	0.50
3:D:58:CYS:HA	3:D:78:VAL:HG11	1.93	0.50
2:M:57:GLU:HG3	2:M:58:ASP:OD2	2.12	0.50
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.92	0.50
3:N:1077:ALA:HA	9:N:9982:HOH:O	2.11	0.50
3:N:818:ARG:HG3	9:N:2703:HOH:O	2.11	0.50
1:B:204:SER:HB2	9:B:9508:HOH:O	2.11	0.49
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.47	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:550:ARG:HG3	3:N:550:ARG:NH1	2.26	0.49
2:C:557:ARG:NH1	2:C:879:ARG:HD3	2.26	0.49
2:C:505:GLY:HA3	9:C:9890:HOH:O	2.11	0.49
2:M:170:PRO:HG2	2:M:258:TYR:CD2	2.47	0.49
2:C:976:ASP:HB2	2:C:979:THR:HG22	1.93	0.49
1:K:184:THR:HG23	1:K:192:LEU:HB3	1.94	0.49
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.12	0.49
3:D:1209:LEU:HD22	3:D:1211:MET:HE1	1.94	0.49
1:A:209:GLU:O	1:A:213:GLN:HG3	2.11	0.49
2:C:339:LEU:HD22	2:C:391:LEU:HD13	1.94	0.49
2:M:68:PHE:HB3	9:M:9640:HOH:O	2.11	0.49
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.92	0.49
1:B:211:LEU:O	1:B:215:VAL:HG13	2.12	0.49
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.42	0.49
2:M:687:ALA:C	2:M:688:ILE:HD12	2.33	0.49
5:F:142:ARG:HB3	5:F:142:ARG:HH11	1.76	0.49
1:L:29:GLU:N	9:L:5175:HOH:O	2.45	0.49
2:C:1015:LEU:HA	9:C:9604:HOH:O	2.12	0.49
3:N:619:LEU:HD13	9:N:9535:HOH:O	2.10	0.49
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.12	0.49
2:M:807:ARG:CZ	2:M:807:ARG:HB2	2.40	0.49
3:D:818:ARG:HB3	9:D:9509:HOH:O	2.12	0.49
2:M:781:LYS:HG2	9:M:2296:HOH:O	2.11	0.49
3:D:1009:LYS:HA	3:D:1012:GLU:OE2	2.12	0.49
2:M:345:ARG:HH11	2:M:345:ARG:HB3	1.77	0.49
3:N:1172:HIS:HE1	9:N:2297:HOH:O	1.95	0.49
2:C:54:ILE:CD1	2:C:356:ARG:HG2	2.35	0.49
2:C:367:LEU:O	2:C:371:LYS:HB3	2.12	0.49
3:N:602:SER:O	3:N:606:ILE:HG12	2.12	0.49
3:N:924:MET:O	3:N:927:THR:HB	2.12	0.49
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.47	0.49
2:C:498:GLN:HG3	9:C:9731:HOH:O	2.12	0.49
3:D:1072:ILE:O	3:D:1075:HIS:HD2	1.96	0.49
2:C:978:ARG:HD3	9:C:9846:HOH:O	2.11	0.49
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.41	0.49
2:M:166:PRO:HD3	2:M:265:ARG:CB	2.42	0.49
2:C:690:ILE:CG2	2:C:852:ILE:HG23	2.39	0.49
2:M:671:ASN:HD21	2:M:993:PHE:HD2	1.60	0.49
5:F:411:HIS:HB2	9:F:9615:HOH:O	2.11	0.49
2:C:580:MET:HB3	2:C:584:GLU:CD	2.31	0.49
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.95	0.49
3:D:608:SER:HB3	3:D:1443:THR:OG1	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:644:LEU:HB3	9:N:9610:HOH:O	2.11	0.49
3:D:880:ILE:O	3:D:883:ALA:HB3	2.12	0.49
2:M:820:ARG:HG2	2:M:820:ARG:HH11	1.76	0.49
3:N:1068:LEU:C	3:N:1070:TYR:N	2.65	0.49
2:M:114:PHE:H	2:M:114:PHE:HD1	1.60	0.49
2:C:569:VAL:HG12	2:C:996:LYS:O	2.12	0.49
5:F:323:ASP:HB3	5:F:325:LYS:HE3	1.93	0.49
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.47	0.49
2:M:1040:LEU:HG	2:M:1045:ALA:CB	2.42	0.49
2:C:745:ILE:HD11	9:C:9745:HOH:O	2.12	0.49
2:C:441:VAL:HG12	2:C:559:LEU:HA	1.93	0.49
1:K:69:PRO:O	1:K:71:VAL:HG23	2.11	0.49
2:C:768:THR:CB	2:C:771:GLU:HB3	2.42	0.49
3:D:175:VAL:HG12	3:D:176:ASP:OD1	2.11	0.49
2:C:983:ILE:HG22	2:C:987:ILE:HD11	1.94	0.49
2:C:197:LEU:HD22	2:C:202:TYR:HD2	1.77	0.49
5:F:82:ARG:HA	9:F:9663:HOH:O	2.12	0.49
3:D:154:THR:HG23	3:D:157:GLU:H	1.77	0.49
5:P:132:ARG:O	5:P:136:LEU:HG	2.12	0.49
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.93	0.49
5:F:394:ARG:HG2	9:F:9632:HOH:O	2.12	0.49
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.41	0.49
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.94	0.49
2:C:669:GLY:HA3	2:C:995:MET:HA	1.93	0.49
1:B:206:THR:HG22	1:B:209:GLU:H	1.77	0.49
3:D:474:GLU:HG3	3:D:500:ARG:HE	1.77	0.49
3:N:1011:PHE:CD2	3:N:1021:TYR:HB2	2.47	0.49
4:O:47:LYS:N	4:O:54:LEU:HD22	2.27	0.49
2:M:95:TYR:N	2:M:95:TYR:CD1	2.81	0.49
3:N:795:VAL:CG1	3:N:863:VAL:HG13	2.42	0.49
1:K:9:PRO:HB3	1:K:25:LEU:HG	1.94	0.49
1:A:64:GLU:OE2	1:A:76:VAL:HG13	2.11	0.49
3:D:1225:ALA:HA	3:D:1367:HIS:ND1	2.28	0.49
3:N:93:ILE:CD1	3:N:548:ILE:HD11	2.42	0.49
2:M:627:ARG:O	2:M:638:ASP:HB3	2.13	0.49
3:N:421:LEU:HD11	3:N:437:VAL:CG2	2.42	0.49
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.42	0.49
2:C:328:LEU:CD2	2:C:437:ARG:HD3	2.43	0.49
2:C:207:LEU:HD22	2:C:221:LEU:HD22	1.94	0.49
3:D:1061:PHE:HE1	3:D:1065:LEU:HD23	1.78	0.49
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.27	0.49
3:N:561:GLY:HA2	5:P:132:ARG:CZ	2.43	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1013:TYR:HE1	2:C:1020:PRO:HG3	1.76	0.49
3:D:462:GLN:HG2	9:D:9936:HOH:O	2.12	0.49
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.94	0.49
3:N:1124:GLN:CG	3:N:1133:ARG:HD2	2.42	0.49
2:M:209:ARG:O	2:M:213:ALA:HB2	2.12	0.49
2:M:571:LEU:HA	2:M:701:THR:O	2.13	0.49
2:C:584:GLU:HG2	9:C:9657:HOH:O	2.12	0.49
3:D:901:GLN:HG2	9:D:9763:HOH:O	2.12	0.49
2:M:54:ILE:HG23	2:M:54:ILE:O	2.13	0.49
2:M:56:GLU:HB2	2:M:64:LEU:HB3	1.94	0.49
5:P:328:PHE:O	5:P:331:ASP:N	2.35	0.49
3:D:1192:LEU:HD13	3:D:1345:GLU:HG2	1.94	0.49
3:D:1192:LEU:HD21	3:D:1372:VAL:CG1	2.42	0.49
2:M:121:MET:HB3	9:M:9714:HOH:O	2.12	0.49
1:B:26:GLU:HG2	1:B:27:PRO:CA	2.42	0.49
3:D:1403:LEU:HD11	9:D:9892:HOH:O	2.11	0.49
2:M:640:ARG:HD3	2:M:642:ARG:HH22	1.76	0.49
2:M:752:GLY:HA3	3:N:679:ARG:HA	1.93	0.49
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.76	0.49
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.12	0.49
2:C:51:THR:HB	2:C:348:LEU:HD23	1.94	0.49
3:N:576:GLU:HA	3:N:579:ASP:OD2	2.12	0.49
5:P:297:PRO:HB2	9:P:4687:HOH:O	2.13	0.49
5:F:272:SER:HB2	9:F:9540:HOH:O	2.11	0.49
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.94	0.49
3:D:212:ARG:HA	9:D:9662:HOH:O	2.11	0.49
3:D:947:ILE:O	3:D:947:ILE:HD12	2.12	0.49
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.42	0.49
2:C:260:LEU:HA	2:C:291:ALA:CB	2.42	0.49
2:C:301:GLU:O	2:C:305:PRO:HG2	2.13	0.49
5:F:217:ASN:O	5:F:221:ILE:HG13	2.12	0.49
2:M:762:LYS:HD3	2:M:771:GLU:OE1	2.12	0.49
5:F:252:ALA:HB1	5:F:265:VAL:HG21	1.93	0.49
2:M:64:LEU:HD22	2:M:359:MET:HG3	1.95	0.49
2:M:98:LEU:HG	9:M:9996:HOH:O	2.12	0.49
2:M:1005:MET:HB2	3:N:648:MET:HE3	1.93	0.49
3:N:976:GLN:HA	3:N:979:GLU:OE1	2.12	0.49
2:M:643:VAL:HG22	2:M:647:GLN:NE2	2.26	0.49
2:M:34:VAL:CB	2:M:38:LYS:HG3	2.41	0.49
3:D:860:LEU:HD23	3:D:877:PRO:CB	2.43	0.49
2:C:184:MET:HB2	2:C:193:LEU:HD12	1.95	0.49
2:C:146:VAL:HG13	2:C:161:SER:O	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:1079:PRO:HD3	9:M:2202:HOH:O	2.11	0.49
2:M:388:ARG:HG3	9:M:9960:HOH:O	2.12	0.49
5:F:419:ARG:O	5:F:421:PHE:N	2.46	0.49
3:N:1216:SER:OG	4:O:15:SER:HA	2.12	0.49
2:M:876:VAL:O	2:M:879:ARG:O	2.31	0.49
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.94	0.49
3:N:81:THR:O	3:N:82:LYS:C	2.51	0.49
5:P:163:LEU:HB3	5:P:174:LEU:CD1	2.43	0.49
3:N:550:ARG:HH11	3:N:550:ARG:HG3	1.76	0.49
3:N:699:VAL:HG22	3:N:756:GLN:HE22	1.77	0.49
2:C:332:ARG:HB2	2:C:466:PHE:CE1	2.47	0.49
3:D:765:SER:O	3:D:767:HIS:N	2.46	0.49
3:N:131:LYS:HD2	5:P:83:GLN:NE2	2.27	0.49
1:A:42:ARG:HB3	9:B:9613:HOH:O	2.11	0.49
3:D:131:LYS:HG3	9:D:9749:HOH:O	2.12	0.49
5:F:335:ASP:CG	5:F:338:LEU:HD12	2.33	0.49
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.52	0.49
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.12	0.49
3:D:530:VAL:N	3:D:534:ARG:O	2.37	0.49
2:C:286:SER:HB3	2:C:299:LYS:CE	2.43	0.49
3:D:704:ARG:HB2	3:D:736:PHE:HD2	1.77	0.49
3:D:400:VAL:HG13	3:D:441:ARG:HD3	1.94	0.49
1:L:65:PHE:HB2	9:L:5784:HOH:O	2.12	0.49
2:M:577:PRO:HA	2:M:993:PHE:CD2	2.48	0.49
3:N:396:VAL:HA	9:N:9955:HOH:O	2.11	0.49
1:K:19:GLU:CD	1:K:19:GLU:H	2.16	0.49
2:C:783:ARG:HD3	9:C:9806:HOH:O	2.11	0.49
1:B:94:LEU:HD11	1:B:119:ASP:CB	2.42	0.49
5:P:292:ALA:HB1	5:P:299:TRP:O	2.13	0.49
1:B:192:LEU:HB3	9:B:9480:HOH:O	2.12	0.49
3:N:1353:GLN:O	3:N:1357:ARG:HD2	2.12	0.49
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.43	0.49
3:D:770:LEU:HD22	3:D:777:PRO:HA	1.93	0.49
4:E:36:LYS:HD2	9:E:9566:HOH:O	2.11	0.49
2:C:703:ILE:CD1	2:C:830:LYS:HG2	2.43	0.49
3:N:1243:THR:HB	3:N:1253:THR:HG22	1.94	0.49
5:F:115:LYS:HG3	5:F:173:TYR:CE2	2.48	0.49
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.41	0.49
1:L:123:MET:HE2	1:L:204:SER:HA	1.94	0.49
2:C:620:LEU:O	2:C:620:LEU:HD22	2.13	0.49
5:P:356:LYS:NZ	5:P:417:LYS:HE2	2.26	0.49
3:D:1156:LEU:HG	3:D:1177:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:470:PRO:HB2	2:M:483:VAL:HG11	1.94	0.49
1:A:190:THR:HG22	9:A:9695:HOH:O	2.12	0.49
3:D:447:VAL:HG12	9:D:9781:HOH:O	2.12	0.49
2:M:976:ASP:HB3	2:M:979:THR:HG22	1.94	0.49
2:C:127:PHE:CE1	2:C:386:PHE:HE2	2.31	0.49
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.43	0.49
5:P:85:LEU:HD22	5:P:193:ARG:HD3	1.94	0.49
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.93	0.49
3:N:169:TYR:N	3:N:170:PRO:CD	2.76	0.49
1:L:13:VAL:HG13	1:L:23:PHE:CD1	2.48	0.49
5:F:366:ALA:HB3	5:F:367:MET:CE	2.42	0.49
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.28	0.49
5:P:247:ILE:O	5:P:251:ILE:HG13	2.12	0.49
5:P:82:ARG:HB2	9:P:5834:HOH:O	2.13	0.49
2:C:712:ALA:O	2:C:820:ARG:HB2	2.12	0.49
2:M:1118:LYS:HD2	9:N:9587:HOH:O	2.13	0.49
1:B:159:LYS:N	1:B:159:LYS:HD3	2.27	0.49
2:M:1070:ILE:HD13	9:N:2071:HOH:O	2.12	0.49
2:M:353:ARG:HG2	9:M:9825:HOH:O	2.12	0.49
2:C:537:LYS:CD	2:C:537:LYS:H	2.26	0.49
2:C:676:ILE:O	2:C:676:ILE:HG23	2.12	0.49
2:C:390:GLN:O	7:C:8001:RPT:H142	2.11	0.49
5:P:358:LEU:CD2	5:P:370:LYS:HE3	2.42	0.49
5:P:350:LEU:O	5:P:354:LEU:HG	2.13	0.49
2:M:671:ASN:HD22	2:M:993:PHE:HA	1.76	0.49
2:M:56:GLU:HB3	9:M:9605:HOH:O	2.12	0.49
1:A:218:LEU:O	1:A:222:LEU:HD23	2.12	0.49
2:C:722:ILE:HD12	2:C:805:ARG:CZ	2.43	0.49
4:E:13:VAL:HG12	4:E:75:PHE:CE1	2.48	0.49
2:M:881:ASN:N	2:M:881:ASN:HD22	2.04	0.49
3:N:1066:THR:HG23	3:N:1069:GLU:H	1.78	0.49
1:L:129:ILE:HD13	9:L:4066:HOH:O	2.11	0.49
2:C:769:PRO:HD2	9:D:2497:HOH:O	2.13	0.49
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.93	0.49
2:M:1068:GLU:OE1	5:P:345:ALA:HA	2.13	0.49
2:C:175:GLU:HB3	2:C:183:SER:OG	2.13	0.49
2:C:969:GLN:HB3	9:D:2069:HOH:O	2.13	0.49
2:C:1065:ALA:HB1	9:C:9619:HOH:O	2.12	0.49
3:N:424:GLY:HA2	3:N:435:VAL:O	2.12	0.49
3:N:634:GLY:O	3:N:637:LEU:HB3	2.13	0.49
3:N:1258:ARG:HH21	3:N:1351:GLU:CG	2.25	0.49
2:C:444:PRO:HB3	7:C:8001:RPT:H302	1.95	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:862:PRO:HA	2:C:975:TYR:CE1	2.48	0.49
3:N:18:ILE:HG23	3:N:518:PRO:CG	2.36	0.49
3:D:462:GLN:HG3	3:D:513:ILE:HD13	1.94	0.49
2:C:777:ILE:HD12	9:C:9524:HOH:O	2.12	0.49
2:M:546:LEU:O	2:M:546:LEU:HD23	2.13	0.49
3:N:488:ARG:CZ	3:N:488:ARG:HB3	2.42	0.49
3:N:428:LYS:HB3	3:N:450:TYR:HE1	1.78	0.49
3:D:478:LEU:HD21	3:D:500:ARG:NH2	2.28	0.49
3:N:850:LEU:O	3:N:853:VAL:HB	2.13	0.49
2:C:8:ARG:HB2	9:C:9660:HOH:O	2.13	0.49
3:D:230:TRP:HA	9:D:2088:HOH:O	2.13	0.49
2:M:474:VAL:HG11	2:M:529:VAL:HG12	1.95	0.49
3:D:928:ALA:O	3:D:931:LEU:HB2	2.13	0.49
3:N:578:VAL:O	3:N:582:LEU:HD12	2.13	0.49
2:C:57:GLU:HG3	2:C:58:ASP:OD2	2.13	0.49
3:D:149:LYS:HA	9:D:9954:HOH:O	2.12	0.49
3:N:1182:GLU:HG2	9:N:9579:HOH:O	2.11	0.49
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.94	0.49
2:C:726:ILE:HG22	9:C:2076:HOH:O	2.12	0.49
2:M:21:ILE:HD12	2:M:21:ILE:H	1.77	0.49
3:N:880:ILE:O	3:N:883:ALA:HB3	2.13	0.49
3:D:1114:THR:HG23	3:D:1116:ASN:ND2	2.28	0.49
3:D:1087:ARG:HH21	3:D:1238:MET:HB2	1.77	0.49
2:C:365:ASP:O	2:C:367:LEU:HD12	2.13	0.49
1:A:14:ARG:CZ	1:A:24:VAL:HG23	2.43	0.49
2:C:862:PRO:HG3	2:C:975:TYR:CE1	2.48	0.49
2:M:281:LEU:CD1	2:M:306:THR:HA	2.43	0.49
2:M:409:ARG:NH2	7:M:8002:RPT:H18	2.24	0.49
5:P:361:LEU:HD13	5:P:366:ALA:CB	2.43	0.49
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.41	0.49
5:F:117:SER:HB3	9:F:9892:HOH:O	2.13	0.49
3:D:702:LEU:HG	3:D:745:MET:HE3	1.94	0.49
3:N:1112:CYS:HA	3:N:1195:GLN:HE22	1.78	0.49
3:N:1007:VAL:O	3:N:1010:ASN:HB3	2.12	0.49
3:N:996:TRP:HA	3:N:999:THR:CG2	2.40	0.49
3:D:1267:ARG:HH22	3:D:1333:HIS:CD2	2.31	0.49
1:K:68:ILE:HD13	1:K:138:LEU:HD13	1.94	0.49
1:B:103:ALA:HB1	1:B:107:LYS:HD2	1.95	0.49
3:D:809:PRO:O	3:D:812:ALA:HB3	2.13	0.49
3:N:1489:GLN:O	3:N:1493:LYS:HG2	2.12	0.49
3:N:843:PHE:CE1	3:N:864:VAL:HG11	2.48	0.49
2:C:893:ALA:O	2:C:897:LEU:HB2	2.13	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:E:45:ARG:HB2	4:E:46:PRO:CD	2.43	0.49
4:O:33:HIS:HB3	9:O:4524:HOH:O	2.10	0.49
2:M:338:GLU:HA	2:M:341:THR:HG22	1.94	0.49
5:P:356:LYS:O	5:P:360:LYS:HG2	2.12	0.49
2:M:543:ASN:HD22	2:M:562:SER:HB3	1.77	0.49
3:N:463:GLN:O	3:N:467:GLU:HG3	2.13	0.49
2:C:37:GLU:HA	9:C:9707:HOH:O	2.12	0.49
2:M:928:LYS:HA	9:M:2129:HOH:O	2.12	0.49
1:A:89:PHE:CZ	1:A:146:ARG:HB2	2.48	0.48
3:D:186:VAL:HG23	3:D:211:VAL:CG1	2.43	0.48
3:D:116:LEU:HB3	3:D:118:LEU:HD21	1.94	0.48
2:M:720:GLU:HA	2:M:759:THR:O	2.13	0.48
3:D:423:ASP:OD2	5:F:174:LEU:HD22	2.13	0.48
2:C:396:ASP:HA	2:C:633:GLN:NE2	2.27	0.48
3:N:1382:THR:HG22	9:N:9550:HOH:O	2.13	0.48
3:D:669:ASN:O	3:D:672:ALA:HB3	2.12	0.48
1:K:32:PHE:N	9:K:4346:HOH:O	2.40	0.48
1:B:89:PHE:HB2	9:B:9688:HOH:O	2.13	0.48
1:B:101:LEU:HD12	1:B:114:PHE:CD1	2.48	0.48
3:N:1318:TYR:HD1	3:N:1319:VAL:N	2.11	0.48
3:D:896:ALA:HB2	9:D:9543:HOH:O	2.13	0.48
3:N:958:GLU:O	3:N:961:LYS:HG2	2.13	0.48
3:N:237:LYS:HA	9:N:2400:HOH:O	2.13	0.48
3:N:998:GLU:HG2	9:N:9574:HOH:O	2.12	0.48
2:M:302:VAL:HB	9:M:9592:HOH:O	2.13	0.48
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.94	0.48
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.95	0.48
2:C:470:PRO:HB2	2:C:483:VAL:HG11	1.94	0.48
2:C:535:SER:O	2:C:538:GLN:HG2	2.13	0.48
3:D:86:ARG:HG3	3:D:86:ARG:O	2.12	0.48
4:E:26:ARG:HH11	4:E:29:GLN:NE2	2.10	0.48
2:M:242:LEU:HD13	9:M:2044:HOH:O	2.13	0.48
5:F:192:LEU:O	5:F:192:LEU:HD23	2.13	0.48
5:F:123:ASP:H	5:F:126:LEU:HD22	1.79	0.48
2:M:728:HIS:NE2	2:M:775:ARG:NH2	2.60	0.48
3:N:1275:SER:HB3	3:N:1325:LEU:CD1	2.43	0.48
2:M:1111:ILE:HG13	2:M:1112:PHE:N	2.25	0.48
2:M:1015:LEU:HB2	5:P:334:PRO:O	2.13	0.48
3:D:633:VAL:C	3:D:635:PRO:HD3	2.33	0.48
3:D:105:VAL:HG12	3:D:106:LYS:NZ	2.28	0.48
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.95	0.48
5:F:282:LEU:HD11	5:F:286:PRO:HG3	1.96	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:74:ASP:OD2	1:L:76:VAL:HG23	2.13	0.48
2:C:570:PRO:CD	2:C:635:THR:HB	2.43	0.48
5:F:369:LEU:HD11	5:F:401:GLU:HB2	1.96	0.48
1:A:81:ASN:HA	1:A:84:GLU:CD	2.33	0.48
3:D:666:ILE:HG22	3:D:676:MET:HE1	1.96	0.48
3:N:671:LYS:HE2	9:N:2679:HOH:O	2.12	0.48
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.94	0.48
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.48	0.48
2:C:502:PRO:HB2	2:C:509:ALA:HB3	1.95	0.48
2:C:231:PRO:HB3	9:C:9728:HOH:O	2.13	0.48
2:C:56:GLU:HB3	9:C:9504:HOH:O	2.13	0.48
3:N:52:PRO:HD2	3:N:79:GLU:O	2.12	0.48
3:D:181:ASP:O	3:D:185:VAL:HG23	2.13	0.48
3:N:777:PRO:HG2	3:N:915:VAL:HB	1.96	0.48
3:N:1425:THR:HG23	3:N:1426:LYS:H	1.78	0.48
3:N:1198:TYR:HE2	3:N:1432:LYS:HE2	1.79	0.48
3:N:563:PRO:HG3	5:P:188:ILE:HG21	1.96	0.48
3:N:12:LEU:HD22	3:N:511:TRP:CB	2.43	0.48
5:P:119:ILE:HD13	5:P:170:HIS:ND1	2.27	0.48
3:D:1097:LYS:O	3:D:1101:VAL:HG23	2.13	0.48
1:K:54:THR:HG23	1:K:156:HIS:CE1	2.47	0.48
5:F:361:LEU:HD22	5:F:366:ALA:HB2	1.95	0.48
3:D:631:ILE:O	3:D:632:VAL:HG23	2.13	0.48
2:C:580:MET:O	2:C:903:SER:N	2.45	0.48
1:L:100:LEU:O	1:L:115:LEU:HG	2.13	0.48
3:D:1188:VAL:HG22	3:D:1189:ARG:O	2.14	0.48
3:D:847:ASP:HA	3:D:850:LEU:CD1	2.44	0.48
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.43	0.48
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.95	0.48
1:K:91:ASN:O	1:K:94:LEU:HD12	2.12	0.48
2:C:604:ALA:HB3	2:C:612:VAL:O	2.13	0.48
3:N:1356:TYR:CD2	3:N:1363:LEU:HD23	2.49	0.48
3:D:1159:ARG:CZ	3:D:1159:ARG:HB3	2.42	0.48
3:N:1406:ARG:HA	9:N:2372:HOH:O	2.13	0.48
2:M:910:LYS:HD3	9:M:9697:HOH:O	2.13	0.48
3:D:428:LYS:HD3	9:D:2416:HOH:O	2.12	0.48
3:D:169:TYR:N	3:D:170:PRO:CD	2.77	0.48
3:D:170:PRO:HG2	9:D:2240:HOH:O	2.13	0.48
3:N:438:ASP:HB2	9:N:9821:HOH:O	2.13	0.48
2:C:775:ARG:HE	2:C:782:ALA:CB	2.25	0.48
2:C:56:GLU:HG2	2:C:64:LEU:HD23	1.94	0.48
2:C:724:ARG:HG3	2:C:740:GLU:HA	1.95	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:1097:LEU:HD22	2:M:1097:LEU:N	2.29	0.48
4:O:18:ARG:O	4:O:22:VAL:HG23	2.13	0.48
3:D:525:ARG:HA	3:D:538:SER:HB2	1.94	0.48
1:A:195:LEU:HD12	1:A:196:THR:N	2.27	0.48
3:D:122:GLU:OE1	3:D:122:GLU:HA	2.13	0.48
1:L:23:PHE:O	1:L:196:THR:HA	2.14	0.48
2:M:45:GLN:CG	2:M:49:ARG:HH22	2.27	0.48
2:M:71:TYR:CD2	2:M:71:TYR:N	2.81	0.48
3:D:105:VAL:HG12	3:D:106:LYS:HZ2	1.77	0.48
3:N:884:ARG:HD3	9:N:9544:HOH:O	2.13	0.48
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.13	0.48
2:M:683:ASN:HB2	9:M:9667:HOH:O	2.13	0.48
3:D:754:PHE:HE2	3:D:1476:THR:HG21	1.79	0.48
3:N:95:LEU:HD11	3:N:517:VAL:HG23	1.96	0.48
2:M:514:VAL:HG22	9:M:9787:HOH:O	2.13	0.48
5:F:273:ARG:HA	5:F:276:ARG:HD2	1.94	0.48
2:C:704:HIS:HB2	2:C:831:ARG:NE	2.27	0.48
2:M:909:ALA:C	2:M:910:LYS:HD2	2.34	0.48
5:P:353:GLU:OE1	5:P:356:LYS:HE2	2.13	0.48
3:N:581:LEU:H	3:N:581:LEU:HD23	1.78	0.48
3:N:1304:LYS:HG2	9:N:2548:HOH:O	2.13	0.48
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.12	0.48
5:P:122:LEU:HD11	5:P:126:LEU:HD23	1.95	0.48
2:M:625:LEU:O	2:M:627:ARG:N	2.45	0.48
3:N:546:ARG:NH2	3:N:550:ARG:HH12	2.12	0.48
2:C:470:PRO:HD3	2:C:485:TYR:CE2	2.49	0.48
3:D:911:LEU:O	3:D:915:VAL:HG23	2.14	0.48
2:M:165:LEU:HA	2:M:166:PRO:O	2.14	0.48
4:E:16:LYS:HA	9:E:9481:HOH:O	2.12	0.48
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.95	0.48
3:N:714:GLN:OE1	3:N:765:SER:HA	2.13	0.48
3:N:1136:LYS:HB2	3:N:1139:ASP:OD2	2.13	0.48
2:C:160:ALA:O	2:C:173:ASP:HA	2.13	0.48
2:C:820:ARG:HD3	9:C:2168:HOH:O	2.12	0.48
2:C:1073:GLY:HA3	9:C:9551:HOH:O	2.13	0.48
3:N:415:VAL:HG23	9:N:2389:HOH:O	2.13	0.48
4:E:50:THR:HG22	9:E:9491:HOH:O	2.12	0.48
2:M:609:ASN:ND2	2:M:627:ARG:HE	2.12	0.48
3:N:1045:MET:HE1	9:N:9654:HOH:O	2.14	0.48
3:D:142:LEU:HB3	9:D:9718:HOH:O	2.13	0.48
3:D:790:TYR:CD1	3:D:1022:VAL:HG13	2.48	0.48
3:N:27:GLU:O	3:N:28:LYS:HD2	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:214:GLN:O	5:P:217:ASN:HB2	2.13	0.48
3:N:152:LEU:HD21	9:N:9735:HOH:O	2.13	0.48
2:M:205:GLU:OE2	2:M:206:THR:HB	2.14	0.48
1:L:206:THR:HG23	1:L:208:LEU:H	1.78	0.48
2:M:102:HIS:HB2	2:M:106:GLY:O	2.14	0.48
2:M:1081:VAL:HB	2:M:1086:ARG:NE	2.29	0.48
3:N:1459:LEU:HD13	3:N:1465:ASN:ND2	2.28	0.48
3:D:829:VAL:H	3:D:835:SER:HB2	1.78	0.48
2:M:274:ARG:HB2	2:M:285:LEU:CD1	2.43	0.48
3:D:1307:LYS:CD	3:D:1307:LYS:H	2.23	0.48
2:C:722:ILE:HG23	2:C:722:ILE:O	2.14	0.48
4:E:17:TYR:HD2	4:E:17:TYR:H	1.62	0.48
5:F:278:LEU:HB2	5:F:286:PRO:HG2	1.95	0.48
3:D:1112:CYS:HB2	3:D:1195:GLN:OE1	2.14	0.48
1:L:170:VAL:C	1:L:172:SER:H	2.16	0.48
3:D:1302:GLU:HG3	9:D:9628:HOH:O	2.14	0.48
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.95	0.48
3:N:820:GLU:HA	3:N:825:ALA:O	2.14	0.48
2:C:588:VAL:HG21	2:C:664:GLY:O	2.13	0.48
2:C:426:ASP:HB2	9:C:2334:HOH:O	2.13	0.48
1:L:219:ARG:O	1:L:223:THR:HG23	2.13	0.48
1:B:170:VAL:HG23	1:B:170:VAL:O	2.13	0.48
3:N:1303:TYR:HD2	9:N:2651:HOH:O	1.96	0.48
5:F:151:LEU:HB2	5:F:155:THR:H	1.79	0.48
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.38	0.48
1:B:124:ASN:HA	9:B:9533:HOH:O	2.14	0.48
1:B:81:ASN:HD21	1:B:127:LEU:HG	1.78	0.48
2:C:108:ILE:HD12	2:C:108:ILE:N	2.28	0.48
3:N:103:TRP:CH2	3:N:1447:LEU:HD23	2.48	0.48
3:D:183:GLU:O	3:D:186:VAL:HG12	2.14	0.48
3:D:213:VAL:HG22	3:D:214:GLU:H	1.79	0.48
2:C:459:ALA:HB1	2:C:467:ILE:CG2	2.43	0.48
2:C:458:TYR:HB3	2:C:470:PRO:HG3	1.95	0.48
3:D:639:LEU:HD12	3:D:640:HIS:H	1.78	0.48
2:C:677:MET:HE3	3:D:943:THR:O	2.13	0.48
2:C:1029:GLY:O	3:D:622:ARG:HD3	2.14	0.48
3:N:152:LEU:CD2	3:N:152:LEU:H	2.25	0.48
2:C:952:LEU:HB3	2:C:966:LEU:HD11	1.95	0.48
3:D:699:VAL:H	3:D:756:GLN:HE21	1.57	0.48
1:L:185:ARG:HG3	1:L:190:THR:CG2	2.39	0.48
2:C:299:LYS:HB3	9:C:9713:HOH:O	2.12	0.48
2:M:431:HIS:HD2	2:M:433:THR:H	1.58	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:10:ILE:HD13	3:D:1447:LEU:HG	1.95	0.48
2:M:195:LEU:HG	2:M:238:LEU:HG	1.96	0.48
5:F:261:PRO:O	5:F:265:VAL:HG23	2.14	0.48
3:N:1305:LEU:HD21	3:N:1326:THR:OG1	2.14	0.48
1:A:99:LEU:HB3	1:A:114:PHE:HD2	1.78	0.48
2:M:1081:VAL:HB	2:M:1086:ARG:HE	1.78	0.48
2:M:1043:TYR:HA	9:O:4679:HOH:O	2.13	0.48
3:N:515:GLU:HB2	9:N:9820:HOH:O	2.13	0.48
1:L:191:ASP:O	1:L:192:LEU:HG	2.13	0.48
3:D:1432:LYS:HA	9:D:9581:HOH:O	2.13	0.48
1:A:20:TYR:CD2	1:A:21:GLY:N	2.80	0.48
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.43	0.48
2:C:480:THR:HG22	2:C:481:ASP:N	2.28	0.48
3:D:785:ILE:HG22	3:D:789:LEU:HD12	1.94	0.48
1:K:83:LYS:HE2	1:K:168:ASP:N	2.27	0.48
2:M:722:ILE:HG21	2:M:821:GLU:OE1	2.14	0.48
5:P:346:THR:HA	9:P:4114:HOH:O	2.12	0.48
2:C:196:LEU:HD11	2:C:303:PHE:CE1	2.49	0.48
3:N:629:SER:OG	3:N:726:ILE:HG13	2.14	0.48
2:M:873:PRO:O	2:M:876:VAL:HG23	2.13	0.48
2:C:64:LEU:HD12	2:C:100:LEU:HD13	1.95	0.48
2:C:1115:LEU:HB3	3:D:85:VAL:CG1	2.44	0.48
3:N:694:VAL:HG13	9:N:2371:HOH:O	2.13	0.48
5:F:128:ARG:HG2	9:F:9497:HOH:O	2.12	0.48
3:D:1223:ILE:HD12	3:D:1223:ILE:N	2.20	0.48
3:N:186:VAL:HG13	3:N:187:LYS:N	2.29	0.48
3:N:796:ARG:HA	9:N:9559:HOH:O	2.14	0.48
1:L:20:TYR:HE2	1:L:198:ARG:HB3	1.78	0.48
9:M:9830:HOH:O	5:P:351:SER:HA	2.14	0.48
2:M:666:LEU:HD12	2:M:667:ALA:N	2.29	0.48
2:C:1051:GLU:HG3	2:C:1055:LEU:HD12	1.96	0.48
2:M:54:ILE:HA	9:M:9582:HOH:O	2.13	0.48
2:M:1021:LEU:HD22	5:P:331:ASP:O	2.14	0.48
3:N:1087:ARG:HA	3:N:1090:ASP:HB2	1.95	0.48
2:C:627:ARG:HG3	2:C:628:PHE:H	1.77	0.48
2:C:42:VAL:HG12	2:C:43:GLY:N	2.26	0.48
3:N:1353:GLN:HE21	3:N:1357:ARG:HE	1.61	0.48
4:E:54:LEU:O	4:E:54:LEU:HD23	2.14	0.48
1:K:50:GLY:O	1:K:146:ARG:HA	2.13	0.48
3:N:462:GLN:HB2	3:N:513:ILE:HG21	1.95	0.48
3:N:897:TRP:CZ2	3:N:902:LEU:HD21	2.48	0.48
3:N:967:ALA:O	3:N:995:LEU:HD21	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:287:THR:C	5:P:289:GLU:H	2.16	0.48
2:M:1040:LEU:HG	2:M:1045:ALA:HB3	1.95	0.48
2:C:1089:VAL:O	2:C:1093:GLN:HG3	2.13	0.48
2:C:931:GLY:HA3	9:C:2360:HOH:O	2.14	0.48
3:N:1036:ARG:NH2	9:N:9654:HOH:O	2.47	0.48
1:A:14:ARG:HH12	1:A:24:VAL:HG23	1.79	0.48
2:C:444:PRO:HB3	7:C:8001:RPT:C30	2.44	0.48
3:N:557:LEU:HD11	5:P:214:GLN:NE2	2.28	0.48
5:F:131:VAL:HG22	5:F:178:ARG:HD3	1.95	0.48
5:P:93:LEU:HG	5:P:190:ALA:HB1	1.95	0.48
2:M:455:LEU:HD13	2:M:459:ALA:HB3	1.94	0.48
3:N:525:ARG:HD2	3:N:541:ASN:OD1	2.14	0.48
2:M:564:MET:HG2	2:M:840:ALA:HB3	1.94	0.48
2:M:54:ILE:HB	9:M:2245:HOH:O	2.14	0.48
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	1.95	0.48
2:C:1067:TYR:CE1	3:D:655:PRO:HG3	2.49	0.48
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.49	0.48
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.14	0.48
2:M:726:ILE:O	2:M:726:ILE:HG22	2.12	0.48
3:N:674:ARG:HG2	3:N:674:ARG:NH1	2.29	0.48
2:C:769:PRO:HB3	9:F:9559:HOH:O	2.12	0.48
3:D:792:ILE:O	3:D:878:GLY:HA3	2.13	0.48
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.14	0.48
2:M:614:ARG:HG3	2:M:620:LEU:HD12	1.96	0.48
2:C:649:VAL:HG23	9:C:9833:HOH:O	2.13	0.48
2:M:278:GLU:HB3	9:M:2020:HOH:O	2.14	0.48
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.28	0.48
3:D:27:GLU:HG3	3:D:28:LYS:HD2	1.96	0.48
3:D:42:ASP:O	3:D:46:ASP:HB2	2.13	0.48
2:C:91:GLN:OE1	2:C:117:HIS:HB3	2.13	0.48
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.95	0.48
1:A:36:LEU:HD11	1:B:221:HIS:HB3	1.95	0.48
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.96	0.48
3:N:1096:ARG:NH1	3:N:1096:ARG:HG2	2.29	0.48
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.94	0.48
5:P:350:LEU:HD23	5:P:351:SER:N	2.29	0.48
3:D:1418:LYS:HG3	9:D:9914:HOH:O	2.13	0.48
2:C:144:PRO:HG2	2:C:265:ARG:NH1	2.25	0.48
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.43	0.48
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.13	0.48
2:M:1043:TYR:OH	3:N:711:LEU:HD23	2.13	0.48
3:D:1379:VAL:HA	3:D:1420:LEU:HB3	1.95	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1404:ASN:HB2	9:D:9939:HOH:O	2.14	0.48
2:C:1036:GLU:HA	3:D:707:THR:HG21	1.96	0.48
3:D:1280:VAL:HG12	3:D:1281:VAL:N	2.29	0.48
2:C:184:MET:HB2	2:C:193:LEU:CD1	2.44	0.48
2:M:863:ASP:O	2:M:865:THR:N	2.47	0.48
2:M:953:VAL:HA	2:M:965:GLU:OE1	2.13	0.48
1:K:41:ARG:HH11	1:K:41:ARG:HG3	1.79	0.48
2:C:630:ARG:HA	2:C:705:ILE:CD1	2.44	0.48
3:N:794:GLN:NE2	3:N:795:VAL:O	2.47	0.48
3:N:493:ARG:NH2	3:N:1388:ARG:HB3	2.28	0.48
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.44	0.48
5:F:388:ALA:HB1	9:F:9483:HOH:O	2.12	0.48
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.49	0.48
2:M:432:ARG:NE	2:M:519:GLY:HA3	2.29	0.48
2:C:445:GLU:HB2	2:C:559:LEU:HD21	1.95	0.48
1:L:73:GLU:HB3	1:L:77:GLU:CG	2.43	0.48
3:D:1169:ASP:HB3	9:D:2071:HOH:O	2.13	0.48
1:L:132:LEU:HD21	1:L:136:GLY:O	2.14	0.48
3:N:970:LYS:HB2	3:N:970:LYS:NZ	2.29	0.48
2:C:380:ALA:O	2:C:384:GLU:HB2	2.13	0.48
2:M:189:ARG:HH22	2:M:243:ARG:HG2	1.78	0.48
5:F:277:GLN:O	5:F:280:GLN:HB3	2.14	0.48
1:K:48:ILE:HD13	1:K:210:ALA:HB1	1.95	0.48
3:D:1259:VAL:O	3:D:1263:PHE:HD1	1.97	0.47
2:M:607:ASP:HB3	2:M:609:ASN:H	1.78	0.47
1:B:86:VAL:HG22	9:B:9508:HOH:O	2.14	0.47
3:N:80:VAL:HG12	3:N:81:THR:H	1.77	0.47
3:D:421:LEU:HD11	3:D:437:VAL:HG22	1.95	0.47
3:N:1209:LEU:HD22	3:N:1211:MET:HB3	1.96	0.47
1:A:63:HIS:HB3	2:C:746:GLY:CA	2.34	0.47
3:D:523:ASP:O	3:D:526:PRO:HG3	2.14	0.47
3:N:122:GLU:O	3:N:126:VAL:HG23	2.13	0.47
2:C:290:LEU:HB3	2:C:302:VAL:CG1	2.44	0.47
9:C:9669:HOH:O	3:D:1075:HIS:HE1	1.96	0.47
1:A:143:ARG:HD2	1:A:145:ASP:OD1	2.14	0.47
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.49	0.47
3:N:1238:MET:HE1	3:N:1257:PRO:HG3	1.96	0.47
3:N:1290:LEU:CD2	3:N:1291:SER:H	2.23	0.47
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.96	0.47
5:P:234:LYS:CD	5:P:236:SER:H	2.27	0.47
2:M:1082:PRO:HG3	9:M:9510:HOH:O	2.13	0.47
2:C:182:VAL:HG11	9:C:9507:HOH:O	2.13	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:1067:TYR:CE2	5:P:342:VAL:HA	2.49	0.47
3:N:633:VAL:C	3:N:635:PRO:HD3	2.34	0.47
3:N:1493:LYS:HB2	9:N:9693:HOH:O	2.13	0.47
1:A:72:LYS:HB3	1:A:73:GLU:OE2	2.13	0.47
3:D:957:PRO:CD	3:D:1007:VAL:HG12	2.44	0.47
1:L:19:GLU:HG3	1:L:201:THR:O	2.14	0.47
2:M:781:LYS:HG3	9:M:2053:HOH:O	2.14	0.47
2:M:345:ARG:HA	2:M:348:LEU:HB2	1.94	0.47
5:P:417:LYS:HD2	9:P:4364:HOH:O	2.13	0.47
2:M:1118:LYS:HB3	3:N:23:TYR:CE1	2.49	0.47
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.14	0.47
3:N:730:PRO:HA	3:N:733:CYS:SG	2.54	0.47
2:C:189:ARG:HH22	2:C:243:ARG:NH2	2.12	0.47
3:D:1087:ARG:HB2	3:D:1087:ARG:CZ	2.44	0.47
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.13	0.47
1:B:151:VAL:HA	1:B:155:LYS:HZ3	1.79	0.47
3:D:445:ARG:HB3	9:D:9781:HOH:O	2.13	0.47
2:C:876:VAL:O	2:C:879:ARG:O	2.32	0.47
3:D:1020:LEU:HA	3:D:1023:MET:HE3	1.96	0.47
2:C:1086:ARG:HD3	2:C:1112:PHE:HD2	1.80	0.47
3:N:572:ARG:NH1	5:P:80:PRO:HD3	2.29	0.47
5:P:193:ARG:HD2	9:P:3462:HOH:O	2.14	0.47
3:D:1491:THR:HG22	9:E:9496:HOH:O	2.13	0.47
2:C:1030:GLN:NE2	2:C:1030:GLN:HA	2.29	0.47
3:D:1173:LEU:HD23	3:D:1174:LEU:HD23	1.97	0.47
3:D:756:GLN:HG2	9:E:9480:HOH:O	2.13	0.47
3:D:671:LYS:O	3:D:671:LYS:HD3	2.14	0.47
2:C:244:PRO:HG2	2:C:246:ASP:CG	2.33	0.47
1:K:23:PHE:O	1:K:196:THR:HA	2.14	0.47
2:M:331:ARG:NH1	2:M:427:VAL:HG13	2.29	0.47
2:M:139:GLN:HE22	2:M:418:LEU:HD13	1.79	0.47
2:M:66:LEU:HD13	2:M:100:LEU:HB2	1.95	0.47
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.96	0.47
1:A:117:VAL:HB	1:A:120:VAL:CG1	2.41	0.47
2:M:881:ASN:N	2:M:881:ASN:ND2	2.61	0.47
2:M:678:PRO:HA	2:M:683:ASN:HD21	1.79	0.47
3:D:1044:LEU:HD21	3:D:1056:PRO:HG3	1.95	0.47
2:M:474:VAL:HG23	2:M:478:VAL:O	2.14	0.47
4:O:48:MET:CB	4:O:54:LEU:HB2	2.44	0.47
3:N:668:PRO:HA	9:N:9706:HOH:O	2.14	0.47
4:E:49:GLN:HA	4:E:51:LEU:O	2.14	0.47
4:O:70:THR:CG2	4:O:72:ARG:HH21	2.27	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:352:GLU:HG2	9:F:9594:HOH:O	2.13	0.47
3:N:1111:ASP:HA	9:N:9807:HOH:O	2.13	0.47
2:M:381:ALA:HA	9:M:9949:HOH:O	2.13	0.47
3:D:39:PRO:HB2	9:D:9934:HOH:O	2.14	0.47
3:N:591:VAL:HG12	3:N:592:THR:O	2.14	0.47
1:B:133:GLU:HG3	9:B:9692:HOH:O	2.13	0.47
3:D:110:SER:HB2	9:D:9697:HOH:O	2.13	0.47
3:D:1402:ALA:HB2	3:D:1415:VAL:CG2	2.44	0.47
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.96	0.47
2:C:285:LEU:HD23	2:C:285:LEU:O	2.14	0.47
2:C:367:LEU:HD22	9:C:2175:HOH:O	2.14	0.47
2:C:52:PHE:HA	9:C:9979:HOH:O	2.13	0.47
2:M:551:GLU:OE1	2:M:906:PHE:HA	2.14	0.47
3:N:776:GLU:OE1	3:N:912:LYS:HD3	2.14	0.47
2:C:1090:LYS:HG2	2:C:1112:PHE:HZ	1.78	0.47
2:C:197:LEU:HA	9:C:9888:HOH:O	2.14	0.47
4:E:59:ASN:HB3	4:E:62:THR:OG1	2.13	0.47
1:A:133:GLU:HA	9:A:9594:HOH:O	2.13	0.47
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.35	0.47
3:N:474:GLU:O	3:N:478:LEU:HG	2.15	0.47
3:D:473:LEU:HD11	3:D:495:ARG:NH1	2.29	0.47
3:D:477:LEU:HD22	3:D:492:ALA:CB	2.42	0.47
9:D:2394:HOH:O	4:E:54:LEU:HD11	2.14	0.47
4:O:54:LEU:HG	4:O:58:PRO:HD2	1.94	0.47
3:D:1394:VAL:HG21	3:D:1397:LYS:NZ	2.28	0.47
3:D:1243:THR:HG22	3:D:1244:GLY:H	1.79	0.47
2:C:892:LEU:HD21	2:C:967:PHE:CE1	2.49	0.47
3:D:843:PHE:CZ	3:D:864:VAL:HG11	2.49	0.47
3:N:664:LYS:HA	9:N:2138:HOH:O	2.14	0.47
3:N:491:LYS:HG3	9:N:9963:HOH:O	2.13	0.47
2:C:110:GLU:H	2:C:368:THR:HG21	1.79	0.47
3:D:1310:ARG:HG3	3:D:1327:ARG:CB	2.44	0.47
2:C:134:ARG:HH21	2:C:394:PHE:N	2.12	0.47
1:A:30:ARG:HH22	1:A:191:ASP:HB2	1.79	0.47
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.78	0.47
9:C:9961:HOH:O	5:F:350:LEU:HD21	2.14	0.47
3:D:672:ALA:HA	5:F:420:ASP:OD2	2.15	0.47
3:N:1280:VAL:HG12	3:N:1281:VAL:N	2.29	0.47
3:D:836:VAL:HG12	9:D:9486:HOH:O	2.14	0.47
3:D:658:LEU:HD11	3:D:674:ARG:NH1	2.29	0.47
3:D:114:THR:O	3:D:495:ARG:HG3	2.15	0.47
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.95	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:501:ALA:HA	3:D:504:ASP:HB2	1.97	0.47
3:N:834:THR:HB	3:N:838:ARG:HB3	1.95	0.47
2:M:841:ASN:HD22	2:M:843:HIS:H	1.60	0.47
2:M:63:GLY:CA	2:M:103:LYS:HE2	2.45	0.47
1:B:173:PRO:HB2	1:B:205:VAL:HG22	1.96	0.47
2:C:352:ALA:O	2:C:355:VAL:HG12	2.15	0.47
3:D:171:LEU:HA	3:D:390:PRO:HA	1.96	0.47
2:C:413:LEU:H	2:C:413:LEU:CD1	2.25	0.47
3:N:728:LEU:HD12	3:N:729:HIS:N	2.30	0.47
3:N:656:PHE:CE2	3:N:698:LYS:HE3	2.49	0.47
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.30	0.47
2:C:16:PRO:HG2	2:C:460:ARG:HH12	1.79	0.47
3:D:1468:LEU:CD1	3:D:1470:ARG:HD3	2.43	0.47
2:C:945:ARG:HD3	2:C:949:LYS:HE3	1.96	0.47
2:M:393:GLN:HB3	7:M:8002:RPT:H343	1.97	0.47
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.95	0.47
3:N:1382:THR:HG21	3:N:1418:LYS:HZ2	1.77	0.47
3:D:584:ASN:HA	9:D:9901:HOH:O	2.15	0.47
2:M:773:LEU:HD21	5:P:354:LEU:HD22	1.95	0.47
3:D:891:GLU:N	9:D:9484:HOH:O	2.47	0.47
2:M:602:GLU:HA	2:M:647:GLN:O	2.14	0.47
5:P:236:SER:HB3	9:P:3697:HOH:O	2.14	0.47
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.50	0.47
2:C:420:ARG:HG2	2:C:421:GLU:H	1.79	0.47
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.76	0.47
1:L:84:GLU:HG3	1:L:127:LEU:CD2	2.44	0.47
3:N:848:GLU:HB3	9:N:9763:HOH:O	2.14	0.47
3:N:826:PRO:HD2	3:N:829:VAL:HG22	1.95	0.47
2:M:1102:LEU:HD11	3:N:9:ARG:HB2	1.97	0.47
1:K:34:VAL:HG21	9:M:2370:HOH:O	2.15	0.47
3:D:659:LYS:HD3	3:D:659:LYS:O	2.14	0.47
2:C:19:THR:HG22	2:C:19:THR:O	2.15	0.47
2:M:1030:GLN:HB2	3:N:626:SER:HB2	1.96	0.47
1:K:102:LYS:HG2	9:K:3922:HOH:O	2.13	0.47
2:C:537:LYS:HD2	2:C:537:LYS:H	1.80	0.47
2:C:1081:VAL:CG1	2:C:1086:ARG:HE	2.27	0.47
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.96	0.47
3:D:601:ARG:CD	3:D:606:ILE:HD13	2.45	0.47
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.95	0.47
3:N:563:PRO:O	3:N:567:ILE:HG13	2.13	0.47
3:D:399:ARG:HH21	3:D:432:TYR:HE2	1.61	0.47
2:M:227:PHE:HA	2:M:230:ARG:NE	2.22	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1352:ILE:CG2	3:N:1368:ILE:HD13	2.45	0.47
2:M:196:LEU:O	2:M:199:VAL:HB	2.15	0.47
3:N:719:VAL:N	9:N:9610:HOH:O	2.47	0.47
5:P:142:ARG:NH1	5:P:150:THR:HG21	2.30	0.47
2:M:269:LEU:HD11	2:M:287:GLY:HA2	1.97	0.47
2:M:197:LEU:CD1	2:M:207:LEU:HD11	2.45	0.47
2:C:752:GLY:C	2:C:791:ARG:HH12	2.18	0.47
1:B:191:ASP:O	1:B:192:LEU:HG	2.13	0.47
3:D:709:HIS:CD2	3:D:711:LEU:HB2	2.49	0.47
3:N:96:ALA:HB2	9:N:9830:HOH:O	2.13	0.47
1:K:18:ARG:O	1:K:201:THR:OG1	2.32	0.47
2:C:114:PHE:HB2	9:C:9593:HOH:O	2.14	0.47
2:M:802:ARG:HH11	2:M:802:ARG:CB	2.28	0.47
3:D:1302:GLU:OE2	3:D:1304:LYS:HG2	2.15	0.47
1:A:57:TYR:CD1	1:A:161:ARG:HB3	2.50	0.47
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.95	0.47
1:A:219:ARG:NH1	1:B:219:ARG:HG2	2.29	0.47
2:M:1019:GLN:NE2	3:N:621:LYS:HA	2.28	0.47
3:D:952:ASP:HA	3:D:1062:ARG:NH2	2.29	0.47
2:C:1047:HIS:CD2	3:D:1471:LEU:HD11	2.50	0.47
1:B:171:PHE:HD2	9:B:9528:HOH:O	1.96	0.47
2:C:269:LEU:HD23	9:C:2225:HOH:O	2.15	0.47
2:C:285:LEU:HD12	2:C:288:ARG:O	2.14	0.47
2:C:48:PHE:O	2:C:52:PHE:HB2	2.15	0.47
3:N:58:CYS:SG	3:N:59:ALA:N	2.88	0.47
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.44	0.47
5:P:151:LEU:HB2	5:P:155:THR:OG1	2.15	0.47
3:N:550:ARG:HH21	5:P:211:ASP:CG	2.18	0.47
2:C:673:LEU:CD2	2:C:867:VAL:HG12	2.45	0.47
2:C:328:LEU:HD11	2:C:434:HIS:HD2	1.79	0.47
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.45	0.47
2:C:1016:ILE:HD12	3:D:526:PRO:HG2	1.96	0.47
3:D:601:ARG:HE	3:D:606:ILE:HA	1.78	0.47
2:C:212:GLY:C	2:C:215:GLY:H	2.18	0.47
2:C:200:LEU:HD13	2:C:300:ASP:OD2	2.13	0.47
1:A:36:LEU:O	1:A:40:LEU:HG	2.15	0.47
3:D:572:ARG:HH12	5:F:79:ASP:CG	2.18	0.47
3:D:969:ARG:O	3:D:972:LEU:HB3	2.14	0.47
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.15	0.47
5:P:412:GLU:OE1	5:P:418:LEU:HD13	2.15	0.47
3:D:1220:ALA:HB1	3:D:1223:ILE:CD1	2.41	0.47
3:N:704:ARG:CD	3:N:705:ALA:H	2.26	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:768:THR:O	2:M:772:ARG:HB3	2.15	0.47
2:M:772:ARG:CD	5:P:373:LYS:HD2	2.44	0.47
2:M:431:HIS:HB3	2:M:434:HIS:CD2	2.49	0.47
2:C:389:SER:C	2:C:391:LEU:N	2.68	0.47
2:M:741:GLY:HA3	9:M:9845:HOH:O	2.13	0.47
2:M:833:LEU:HB2	9:M:9662:HOH:O	2.14	0.47
2:M:897:LEU:CD1	2:M:921:ALA:HA	2.44	0.47
3:D:955:VAL:HB	3:D:1011:PHE:CE1	2.43	0.47
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.30	0.47
2:M:984:GLU:HG3	3:N:944:THR:O	2.15	0.47
1:B:190:THR:HG22	9:B:9536:HOH:O	2.14	0.47
2:M:194:VAL:HG21	2:M:221:LEU:HA	1.97	0.47
2:C:1006:HIS:N	2:C:1006:HIS:ND1	2.63	0.47
9:D:2189:HOH:O	5:F:145:PRO:HB3	2.14	0.47
3:N:684:LYS:HB3	3:N:686:GLU:HG3	1.96	0.47
2:C:612:VAL:HG22	2:C:622:GLU:HB2	1.97	0.47
3:D:1151:ARG:HB2	9:D:9606:HOH:O	2.15	0.47
1:L:111:ALA:HB3	1:L:124:ASN:O	2.15	0.47
2:C:816:LYS:HB3	9:C:9840:HOH:O	2.15	0.47
3:D:501:ALA:HB1	3:D:1453:ALA:HA	1.97	0.47
3:N:440:VAL:HG12	3:N:441:ARG:N	2.30	0.47
3:D:995:LEU:HA	9:D:2036:HOH:O	2.14	0.47
2:C:654:LEU:HD13	2:C:664:GLY:N	2.29	0.47
5:P:82:ARG:HG2	9:P:4186:HOH:O	2.13	0.47
3:N:75:ARG:NH1	3:N:75:ARG:HG3	2.27	0.47
2:M:910:LYS:HD2	2:M:910:LYS:N	2.30	0.47
1:B:72:LYS:HG2	9:B:9498:HOH:O	2.14	0.47
1:B:32:PHE:HA	1:B:35:THR:OG1	2.15	0.47
3:D:894:LYS:HB2	9:D:9872:HOH:O	2.13	0.47
2:C:451:LEU:H	2:C:451:LEU:HD12	1.79	0.47
2:C:55:GLU:HG2	9:C:2379:HOH:O	2.14	0.47
3:N:610:LYS:HG2	3:N:611:GLN:HG2	1.96	0.47
2:M:544:THR:O	2:M:547:ILE:HG13	2.15	0.47
2:M:279:GLU:HA	9:M:9687:HOH:O	2.13	0.47
3:D:229:ALA:HB1	9:D:9916:HOH:O	2.14	0.47
1:A:127:LEU:HD12	1:A:127:LEU:C	2.34	0.47
2:M:619:ARG:HG3	9:M:9814:HOH:O	2.15	0.47
3:N:982:PHE:HZ	9:N:2480:HOH:O	1.98	0.47
3:D:436:GLU:HB2	3:D:445:ARG:HB3	1.95	0.47
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.44	0.47
1:A:33:GLY:O	1:A:195:LEU:HD22	2.14	0.47
3:D:28:LYS:O	3:D:43:GLY:HA2	2.15	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:129:ILE:HG12	2:C:386:PHE:HB3	1.97	0.47
3:D:1495:ILE:N	3:D:1495:ILE:HD12	2.29	0.47
5:P:361:LEU:HD13	5:P:366:ALA:HB1	1.97	0.47
2:C:232:GLU:O	2:C:235:LEU:HB2	2.14	0.47
2:C:83:CYS:CA	2:C:88:LEU:HB3	2.39	0.47
3:N:1223:ILE:N	3:N:1223:ILE:HD12	2.25	0.47
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.50	0.47
2:C:137:VAL:O	2:C:391:LEU:HD11	2.15	0.47
5:F:358:LEU:HD13	5:F:370:LYS:HG3	1.97	0.47
5:F:367:MET:HA	5:F:370:LYS:NZ	2.30	0.47
5:F:141:VAL:O	5:F:145:PRO:HD2	2.15	0.47
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.96	0.47
3:D:539:ASP:OD2	5:F:318:GLU:HB2	2.14	0.47
5:F:316:SER:C	5:F:318:GLU:N	2.68	0.47
3:N:139:GLY:N	3:N:147:VAL:HG21	2.30	0.47
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.97	0.47
1:A:83:LYS:HE2	1:A:167:VAL:HG12	1.97	0.47
2:M:1076:VAL:HG21	3:N:752:SER:HB3	1.97	0.47
3:N:933:ALA:O	3:N:937:TYR:HD1	1.96	0.47
5:F:74:LYS:HG3	9:F:9539:HOH:O	2.14	0.47
2:M:220:GLY:HA3	9:M:9540:HOH:O	2.15	0.47
2:M:277:ALA:HB1	9:M:2036:HOH:O	2.14	0.47
1:B:123:MET:CE	1:B:204:SER:HA	2.45	0.47
2:C:52:PHE:O	2:C:54:ILE:N	2.48	0.47
2:C:877:PRO:HG3	3:D:1020:LEU:CD1	2.44	0.47
2:M:164:PRO:HD2	2:M:170:PRO:O	2.15	0.47
1:B:41:ARG:HB2	1:B:177:VAL:HG21	1.95	0.47
5:P:184:ARG:NH2	9:P:3604:HOH:O	2.46	0.47
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.49	0.47
2:C:1018:GLN:HG3	2:C:1060:ILE:HD13	1.97	0.47
3:D:1425:THR:HG23	3:D:1426:LYS:N	2.30	0.47
2:C:346:VAL:HB	9:C:2037:HOH:O	2.15	0.47
3:N:36:THR:O	3:N:38:LYS:N	2.46	0.47
2:M:371:LYS:HB2	9:M:9512:HOH:O	2.14	0.47
1:A:101:LEU:HD12	1:A:114:PHE:CD1	2.50	0.47
3:N:137:PRO:HD2	3:N:453:ASP:HB2	1.97	0.47
2:M:202:TYR:OH	2:M:304:LEU:HD22	2.14	0.47
5:P:409:LYS:HE3	5:P:410:TYR:CD1	2.49	0.47
1:K:97:VAL:HG12	1:K:99:LEU:HD12	1.97	0.47
1:L:94:LEU:HD11	1:L:119:ASP:HB3	1.96	0.47
1:K:225:PHE:CE1	1:L:25:LEU:HD22	2.50	0.47
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.50	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:543:ASN:ND2	2:M:562:SER:HB3	2.30	0.47
2:M:423:ALA:HB1	9:M:9593:HOH:O	2.15	0.47
2:M:167:LYS:HD3	2:M:168:ARG:N	2.30	0.47
2:C:776:SER:HA	2:C:780:GLU:HB3	1.97	0.47
2:C:56:GLU:CG	2:C:64:LEU:HD23	2.45	0.47
2:C:71:TYR:HD1	9:C:9517:HOH:O	1.97	0.47
3:N:639:LEU:HD12	3:N:639:LEU:H	1.80	0.47
3:N:698:LYS:HA	3:N:756:GLN:NE2	2.30	0.47
3:D:1026:SER:C	3:D:1028:ALA:H	2.16	0.47
3:D:730:PRO:HA	3:D:733:CYS:HG	1.80	0.47
3:N:1101:VAL:HG22	3:N:1428:ALA:HB2	1.97	0.47
2:C:444:PRO:HG3	2:C:452:ILE:HD12	1.96	0.47
2:C:515:ALA:C	2:C:516:ARG:HG2	2.35	0.47
5:F:85:LEU:HB2	9:F:9663:HOH:O	2.14	0.47
5:F:188:ILE:HA	9:F:9537:HOH:O	2.15	0.47
3:N:186:VAL:HG11	3:N:213:VAL:HB	1.97	0.47
2:C:47:ALA:HA	2:C:50:GLU:OE2	2.15	0.47
3:N:703:ASN:ND2	3:N:704:ARG:H	2.13	0.47
3:D:584:ASN:HB3	9:D:9515:HOH:O	2.15	0.47
2:C:144:PRO:HB2	9:C:9808:HOH:O	2.15	0.47
2:M:96:ALA:HB3	9:M:9996:HOH:O	2.14	0.47
2:C:603:VAL:H	2:C:647:GLN:H	1.63	0.47
1:L:189:ARG:HG3	1:L:189:ARG:NH1	2.30	0.47
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.42	0.47
3:N:510:GLU:O	3:N:513:ILE:HD12	2.14	0.47
3:N:844:ALA:HB3	3:N:848:GLU:OE2	2.15	0.47
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.96	0.47
2:C:715:THR:HG22	9:C:2002:HOH:O	2.14	0.47
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.96	0.47
5:F:340:SER:OG	5:F:342:VAL:HG23	2.15	0.47
3:N:64:LYS:HE3	9:N:9919:HOH:O	2.14	0.47
5:F:287:THR:HG23	5:F:289:GLU:H	1.80	0.47
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.78	0.47
2:M:1097:LEU:HD11	3:N:103:TRP:CZ3	2.50	0.46
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.41	0.46
2:C:305:PRO:HG3	2:C:308:ARG:HH22	1.80	0.46
2:M:170:PRO:HA	9:M:9800:HOH:O	2.14	0.46
5:F:209:PHE:HE2	5:F:213:ILE:HD11	1.80	0.46
3:D:210:ARG:NH1	3:D:398:ALA:HB3	2.30	0.46
1:A:206:THR:HG22	1:A:209:GLU:H	1.80	0.46
1:K:12:THR:HG23	1:K:24:VAL:HB	1.97	0.46
2:M:671:ASN:ND2	2:M:993:PHE:HB2	2.30	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:721:ARG:O	2:C:758:ARG:HA	2.14	0.46
3:N:968:ASP:O	3:N:971:LEU:HB3	2.15	0.46
3:N:972:LEU:O	3:N:976:GLN:HG3	2.14	0.46
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.50	0.46
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.44	0.46
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.49	0.46
2:M:269:LEU:HD12	2:M:288:ARG:HG3	1.97	0.46
3:N:551:ASN:O	3:N:555:LYS:HG3	2.14	0.46
3:D:95:LEU:CD2	3:D:574:LEU:HD11	2.45	0.46
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.96	0.46
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.50	0.46
3:N:1026:SER:C	3:N:1028:ALA:H	2.17	0.46
2:C:7:GLY:HA3	2:C:907:ASP:O	2.15	0.46
5:P:122:LEU:HA	9:P:4063:HOH:O	2.14	0.46
4:E:12:MET:HA	4:E:12:MET:CE	2.45	0.46
2:M:929:ARG:HG3	2:M:929:ARG:HH11	1.80	0.46
2:C:471:TYR:CD2	2:C:533:ASP:HA	2.50	0.46
2:M:50:GLU:HA	2:M:266:ARG:NH1	2.31	0.46
1:L:99:LEU:HA	9:L:4955:HOH:O	2.15	0.46
4:E:70:THR:HB	9:E:9533:HOH:O	2.14	0.46
3:D:1235:GLN:C	3:D:1359:GLN:HE22	2.18	0.46
1:B:85:LEU:HD13	1:B:127:LEU:HD23	1.97	0.46
2:C:110:GLU:HB2	2:C:368:THR:CG2	2.45	0.46
3:N:50:PHE:HB3	3:N:522:PRO:HG2	1.97	0.46
3:D:168:THR:HA	9:D:9616:HOH:O	2.15	0.46
1:A:23:PHE:CD1	1:A:211:LEU:HD23	2.50	0.46
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.45	0.46
2:M:185:LYS:HB3	2:M:188:LYS:O	2.15	0.46
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.23	0.46
1:A:178:ALA:CB	2:C:864:GLY:H	2.28	0.46
3:D:503:LEU:HD23	3:D:508:ARG:HH12	1.80	0.46
5:F:292:ALA:HB1	5:F:299:TRP:O	2.15	0.46
2:M:205:GLU:CD	2:M:206:THR:N	2.68	0.46
3:D:720:LEU:CD1	3:D:720:LEU:H	2.23	0.46
3:D:442:ASN:HA	9:D:9677:HOH:O	2.14	0.46
2:M:897:LEU:HD11	2:M:921:ALA:HA	1.96	0.46
2:C:993:PHE:CD1	2:C:993:PHE:C	2.88	0.46
2:M:101:ILE:HG22	2:M:102:HIS:H	1.80	0.46
2:M:517:ARG:HG3	2:M:522:VAL:HG21	1.96	0.46
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.15	0.46
3:D:105:VAL:HG23	9:D:9538:HOH:O	2.15	0.46
2:M:770:GLU:HG2	3:N:65:ARG:HH22	1.79	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:8:ARG:HB2	2:C:8:ARG:HH11	1.80	0.46
3:D:574:LEU:O	3:D:577:ALA:HB3	2.15	0.46
2:M:820:ARG:HG2	2:M:820:ARG:NH1	2.30	0.46
5:F:321:ILE:O	5:F:327:SER:HB3	2.15	0.46
2:M:498:GLN:CG	2:M:516:ARG:HH21	2.27	0.46
1:L:5:LYS:HZ1	1:L:5:LYS:HA	1.81	0.46
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.81	0.46
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.97	0.46
3:N:196:VAL:HG12	9:N:9691:HOH:O	2.14	0.46
2:M:352:ALA:O	2:M:356:ARG:HG3	2.16	0.46
3:D:1402:ALA:HB2	3:D:1415:VAL:HG23	1.96	0.46
2:M:592:LEU:HD13	9:M:2275:HOH:O	2.14	0.46
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.96	0.46
5:P:77:THR:O	5:P:81:VAL:HG23	2.15	0.46
3:N:54:LYS:HG3	3:N:55:ASP:OD1	2.16	0.46
2:M:403:SER:O	2:M:407:LYS:HG3	2.15	0.46
3:D:171:LEU:HD13	3:D:389:GLU:C	2.35	0.46
2:C:16:PRO:CG	2:C:460:ARG:HH12	2.28	0.46
3:N:1382:THR:OG1	3:N:1418:LYS:HE3	2.15	0.46
5:F:123:ASP:HB2	5:F:126:LEU:HD13	1.98	0.46
3:D:1264:GLU:CD	3:D:1425:THR:H	2.19	0.46
3:N:1124:GLN:HA	3:N:1125:PRO:HD3	1.70	0.46
1:A:205:VAL:HG23	1:A:206:THR:N	2.31	0.46
3:N:1465:ASN:HA	3:N:1465:ASN:HD22	1.49	0.46
3:D:104:PHE:HB2	9:D:9538:HOH:O	2.15	0.46
9:B:9616:HOH:O	3:D:813:LEU:HD21	2.15	0.46
3:D:654:LYS:HD3	3:D:674:ARG:HH22	1.80	0.46
2:C:757:GLY:HA2	2:C:789:SER:HB3	1.96	0.46
2:C:1109:VAL:CG2	3:D:3:LYS:HG2	2.43	0.46
3:D:844:ALA:O	3:D:867:ARG:HD2	2.15	0.46
3:D:859:ASP:O	3:D:877:PRO:HG2	2.16	0.46
2:M:342:ASP:O	2:M:346:VAL:HG23	2.16	0.46
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.16	0.46
5:P:320:PRO:CB	5:P:324:GLU:HG2	2.45	0.46
2:M:1067:TYR:HE2	5:P:342:VAL:HA	1.81	0.46
2:C:642:ARG:HA	9:C:9967:HOH:O	2.15	0.46
4:O:86:GLN:HB3	4:O:86:GLN:HE21	1.59	0.46
3:N:1366:LYS:O	3:N:1370:ILE:HG12	2.16	0.46
3:N:1020:LEU:HA	3:N:1023:MET:HE2	1.97	0.46
1:A:91:ASN:OD1	1:A:92:PRO:HD2	2.15	0.46
2:C:911:GLU:O	2:C:915:LYS:HG2	2.15	0.46
1:L:133:GLU:HG3	1:L:134:GLU:HG2	1.97	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.46	0.46
5:P:139:ALA:HA	9:P:3321:HOH:O	2.15	0.46
1:B:150:TYR:HD2	3:D:857:ILE:HG13	1.77	0.46
3:D:422:ALA:O	3:D:427:VAL:HG21	2.16	0.46
3:N:580:ALA:HA	3:N:584:ASN:OD1	2.15	0.46
3:N:1431:THR:OG1	3:N:1432:LYS:N	2.49	0.46
9:D:9547:HOH:O	5:F:349:LEU:HD12	2.15	0.46
3:N:1256:LEU:HA	3:N:1259:VAL:HG23	1.98	0.46
2:M:897:LEU:HG	2:M:920:GLN:HE21	1.77	0.46
3:D:68:PHE:O	3:D:71:LYS:HG2	2.15	0.46
3:D:56:TYR:CE2	3:D:66:GLN:HA	2.50	0.46
5:P:317:LEU:O	5:P:329:TYR:HB3	2.15	0.46
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.98	0.46
2:M:22:GLN:HE22	2:M:336:VAL:HG21	1.79	0.46
4:E:58:PRO:HB2	9:E:9487:HOH:O	2.16	0.46
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.81	0.46
2:M:861:LEU:HD22	2:M:863:ASP:OD1	2.16	0.46
5:P:416:ARG:CZ	5:P:419:ARG:HB3	2.46	0.46
3:D:552:ASN:HA	3:D:555:LYS:HE3	1.96	0.46
3:D:960:LYS:HG2	3:D:964:LEU:HD12	1.98	0.46
3:N:647:ARG:CZ	9:N:2258:HOH:O	2.63	0.46
1:A:7:LYS:HD2	9:A:9499:HOH:O	2.15	0.46
2:C:961:GLU:HA	2:C:961:GLU:OE2	2.16	0.46
5:F:287:THR:C	5:F:289:GLU:H	2.18	0.46
1:L:34:VAL:HG12	9:M:9557:HOH:O	2.15	0.46
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.46
2:C:676:ILE:HG21	2:C:988:VAL:HG22	1.97	0.46
2:M:790:LEU:C	2:M:790:LEU:HD23	2.35	0.46
3:D:1486:VAL:HG12	3:D:1487:VAL:N	2.30	0.46
2:C:127:PHE:O	2:C:133:ASP:HA	2.16	0.46
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.45	0.46
1:A:30:ARG:NH1	1:A:191:ASP:HB2	2.31	0.46
2:M:680:ASP:HB2	2:M:682:TYR:CE2	2.50	0.46
2:M:904:PRO:HG3	9:M:9623:HOH:O	2.16	0.46
2:C:777:ILE:HG22	2:C:778:PHE:HD1	1.81	0.46
2:M:437:ARG:C	2:M:438:ILE:HD12	2.35	0.46
2:M:565:GLN:OE1	2:M:842:ARG:HG2	2.14	0.46
2:M:1104:GLU:H	2:M:1104:GLU:CD	2.19	0.46
1:A:101:LEU:HG	1:A:114:PHE:CA	2.43	0.46
2:M:1016:ILE:HD12	5:P:317:LEU:HD21	1.97	0.46
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.45	0.46
3:D:820:GLU:HA	3:D:825:ALA:O	2.16	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:829:VAL:HG11	9:D:2252:HOH:O	2.15	0.46
3:N:1008:PHE:HB3	3:N:1012:GLU:OE2	2.15	0.46
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.97	0.46
3:D:708:LEU:HD23	3:D:708:LEU:HA	1.73	0.46
5:P:314:PRO:HD2	9:P:4162:HOH:O	2.15	0.46
3:D:1295:GLU:HG2	9:D:9793:HOH:O	2.15	0.46
1:B:71:VAL:HG22	1:B:132:LEU:HD12	1.97	0.46
2:M:861:LEU:HD23	2:M:862:PRO:N	2.31	0.46
3:D:1046:GLN:HB2	9:D:9695:HOH:O	2.15	0.46
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.84	0.46
5:P:127:ILE:HD11	9:P:4895:HOH:O	2.16	0.46
3:N:1342:GLU:HB3	9:N:9577:HOH:O	2.15	0.46
2:M:17:PRO:O	2:M:20:GLU:N	2.46	0.46
3:D:667:ALA:HB2	3:D:676:MET:HE1	1.97	0.46
2:C:915:LYS:O	2:C:968:LEU:HD22	2.14	0.46
2:C:39:ARG:HG3	9:C:9773:HOH:O	2.15	0.46
2:M:429:ASP:HB3	9:M:9514:HOH:O	2.15	0.46
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.97	0.46
3:D:1306:PRO:HG3	9:D:9577:HOH:O	2.16	0.46
3:D:1258:ARG:HG3	3:D:1262:LEU:HD13	1.96	0.46
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.42	0.46
3:N:928:ALA:O	3:N:931:LEU:HB2	2.16	0.46
3:D:581:LEU:HD12	3:D:603:LEU:HD12	1.96	0.46
2:C:129:ILE:HG12	2:C:386:PHE:O	2.16	0.46
2:C:93:PRO:HB2	9:C:9537:HOH:O	2.14	0.46
2:C:1013:TYR:HB2	5:F:335:ASP:OD2	2.15	0.46
2:M:409:ARG:HG2	9:M:2089:HOH:O	2.16	0.46
2:M:428:ARG:O	3:N:1078:ARG:NH1	2.49	0.46
3:D:397:LYS:NZ	3:D:399:ARG:HH21	2.13	0.46
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.51	0.46
3:N:434:ARG:HG3	9:N:9784:HOH:O	2.14	0.46
3:D:93:ILE:HG12	3:D:548:ILE:HD12	1.98	0.46
3:D:983:LEU:HB2	9:D:9513:HOH:O	2.16	0.46
3:D:1139:ASP:O	3:D:1142:ALA:HB3	2.15	0.46
3:D:208:PRO:CB	3:D:395:VAL:HG13	2.45	0.46
2:C:1101:THR:O	2:C:1102:LEU:HD12	2.15	0.46
3:D:1331:ASP:OD1	3:D:1333:HIS:HB2	2.15	0.46
3:D:1346:ARG:HB2	3:D:1346:ARG:NH1	2.30	0.46
3:D:860:LEU:O	3:D:877:PRO:HD2	2.16	0.46
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.97	0.46
5:F:353:GLU:OE1	5:F:356:LYS:HD2	2.16	0.46
1:K:9:PRO:HG2	1:L:224:TYR:CD2	2.51	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:O:4:PRO:HG3	9:O:5463:HOH:O	2.15	0.46
4:O:5:GLY:O	4:O:9:LEU:HG	2.15	0.46
1:A:43:ILE:HA	1:A:47:SER:OG	2.16	0.46
2:M:4:LYS:HE3	9:M:9956:HOH:O	2.15	0.46
2:C:3:ILE:CD1	2:C:900:ARG:HB2	2.46	0.46
3:N:1383:ASP:HB3	3:N:1416:ALA:H	1.81	0.46
1:L:159:LYS:N	1:L:159:LYS:HD3	2.31	0.46
3:D:22:SER:HB3	9:D:9666:HOH:O	2.16	0.46
3:N:608:SER:OG	3:N:609:GLY:N	2.46	0.46
3:N:899:LEU:CD1	3:N:900:ILE:HG23	2.46	0.46
3:N:388:HIS:H	5:P:97:GLU:HG3	1.79	0.46
2:M:952:LEU:HD22	2:M:952:LEU:N	2.29	0.46
1:B:123:MET:CG	9:B:9635:HOH:O	2.64	0.46
3:N:82:LYS:NZ	3:N:82:LYS:HB2	2.31	0.46
3:D:468:LEU:HB3	9:D:9997:HOH:O	2.16	0.46
2:C:289:THR:HG22	2:C:290:LEU:HD22	1.97	0.46
2:C:289:THR:HG22	2:C:290:LEU:H	1.80	0.46
2:M:73:LEU:HB2	9:M:2197:HOH:O	2.15	0.46
3:N:42:ASP:O	3:N:46:ASP:HB2	2.16	0.46
5:P:215:GLU:O	5:P:218:GLN:HB3	2.16	0.46
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.41	0.46
2:M:575:GLN:HB3	2:M:670:GLN:HA	1.97	0.46
9:M:2201:HOH:O	4:O:32:ARG:HD3	2.16	0.46
3:N:1300:SER:HB2	9:N:2406:HOH:O	2.15	0.46
1:A:86:VAL:HG23	1:A:202:ASP:OD1	2.16	0.46
3:N:1000:THR:HG23	3:N:1001:GLU:N	2.30	0.46
3:D:1496:GLU:HA	3:D:1499:ARG:CD	2.45	0.46
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.97	0.46
3:D:847:ASP:OD1	3:D:848:GLU:N	2.49	0.46
3:D:867:ARG:CB	3:D:867:ARG:HH11	2.29	0.46
3:D:919:PHE:O	3:D:919:PHE:HD2	1.98	0.46
2:C:1049:LEU:HG	2:C:1053:LEU:HD11	1.96	0.46
1:L:123:MET:O	1:L:125:PRO:HD3	2.16	0.46
2:C:1092:LEU:HD22	2:C:1099:VAL:CG2	2.46	0.46
3:N:1304:LYS:HB3	9:N:9487:HOH:O	2.15	0.46
5:P:343:ASP:HA	9:P:5842:HOH:O	2.15	0.46
4:O:61:GLU:HG3	4:O:61:GLU:H	1.49	0.46
1:L:69:PRO:HB3	9:L:5138:HOH:O	2.16	0.46
3:D:1359:GLN:HE21	3:D:1359:GLN:HB3	1.51	0.46
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.22	0.46
2:M:137:VAL:O	2:M:391:LEU:HD21	2.15	0.46
2:C:1005:MET:CB	3:D:629:SER:HB2	2.45	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.80	0.46
2:C:524:VAL:HG22	9:C:2060:HOH:O	2.15	0.46
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	1.97	0.46
1:L:23:PHE:CE1	1:L:208:LEU:HD13	2.50	0.46
2:M:669:GLY:O	2:M:670:GLN:HG2	2.15	0.46
3:N:181:ASP:O	3:N:185:VAL:HG23	2.16	0.46
3:N:191:LEU:HD22	3:N:195:VAL:CG2	2.45	0.46
1:B:89:PHE:CD1	1:B:120:VAL:HG22	2.50	0.46
2:M:343:GLN:HB2	9:M:9681:HOH:O	2.15	0.46
1:K:58:ILE:HD13	1:K:140:MET:HB3	1.96	0.46
4:O:45:ARG:HB2	4:O:46:PRO:CD	2.45	0.46
3:N:669:ASN:O	3:N:672:ALA:HB3	2.15	0.46
2:C:630:ARG:HE	2:C:705:ILE:CG1	2.29	0.46
2:C:705:ILE:HG22	2:C:827:VAL:O	2.16	0.46
3:N:1252:ILE:HG22	3:N:1253:THR:H	1.81	0.46
5:P:226:LYS:HB2	5:P:238:TYR:OH	2.16	0.46
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.96	0.46
2:M:841:ASN:HD22	2:M:843:HIS:N	2.14	0.46
3:N:441:ARG:O	3:N:443:VAL:N	2.49	0.46
3:D:1003:VAL:O	3:D:1007:VAL:HG13	2.16	0.46
2:M:636:ALA:HB2	2:M:703:ILE:HG22	1.97	0.46
3:D:984:THR:HG22	3:D:987:GLU:CD	2.35	0.46
5:P:319:THR:HG21	9:P:5402:HOH:O	2.16	0.46
2:C:72:ARG:HB3	9:C:2179:HOH:O	2.15	0.46
3:D:413:ASP:OD1	3:D:421:LEU:HD22	2.15	0.46
2:C:682:TYR:N	9:C:9490:HOH:O	2.49	0.46
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.96	0.46
2:C:595:LEU:HB2	9:C:2223:HOH:O	2.15	0.46
3:N:704:ARG:CZ	3:N:737:ASN:O	2.64	0.46
5:P:422:LEU:HD11	9:P:3715:HOH:O	2.16	0.46
2:M:329:GLY:N	2:M:488:ALA:HB3	2.31	0.46
2:M:599:GLU:HB2	9:M:9583:HOH:O	2.15	0.46
3:D:1277:ILE:CD1	3:D:1301:LYS:HB2	2.44	0.46
2:M:305:PRO:CG	2:M:308:ARG:HH21	2.25	0.46
2:C:252:LYS:HZ2	2:C:296:GLY:HA3	1.81	0.46
2:C:705:ILE:HA	2:C:827:VAL:O	2.16	0.46
5:F:289:GLU:O	5:F:293:GLU:HG3	2.16	0.46
3:D:827:ILE:O	3:D:837:GLY:HA3	2.16	0.46
1:A:13:VAL:HG12	1:A:15:THR:HG22	1.96	0.46
2:C:319:GLY:HA3	9:C:2214:HOH:O	2.16	0.46
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.81	0.46
3:N:630:VAL:HG12	3:N:631:ILE:N	2.30	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1481:VAL:HG13	4:O:18:ARG:NE	2.27	0.46
1:A:195:LEU:CD1	1:A:197:LEU:HD22	2.40	0.46
2:M:146:VAL:HG11	2:M:306:THR:HG22	1.98	0.46
2:M:91:GLN:CD	2:M:117:HIS:HB3	2.37	0.46
2:M:675:ALA:CA	2:M:989:VAL:HG12	2.37	0.46
3:N:213:VAL:HG22	3:N:214:GLU:H	1.81	0.46
2:M:205:GLU:O	2:M:209:ARG:HD2	2.15	0.46
2:M:438:ILE:HG22	2:M:439:CYS:O	2.16	0.46
2:C:136:ILE:CG2	2:C:336:VAL:HG13	2.43	0.46
3:N:31:THR:HB	3:N:32:ILE:H	1.62	0.46
3:D:68:PHE:HA	3:D:71:LYS:NZ	2.31	0.46
3:N:1114:THR:HA	9:N:2201:HOH:O	2.16	0.46
2:M:1090:LYS:HE2	2:M:1112:PHE:CE1	2.51	0.46
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.98	0.46
5:P:102:LEU:HD22	5:P:183:ALA:O	2.15	0.46
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.98	0.46
3:N:411:THR:HG22	9:N:2263:HOH:O	2.16	0.46
2:C:242:LEU:HA	9:C:9503:HOH:O	2.16	0.46
3:D:591:VAL:HG12	3:D:592:THR:O	2.16	0.46
3:D:694:VAL:HG13	9:D:2053:HOH:O	2.16	0.46
2:M:311:PHE:HB2	9:M:2157:HOH:O	2.16	0.46
2:C:761:PHE:CD1	2:C:761:PHE:N	2.84	0.46
3:N:667:ALA:HB2	9:N:2385:HOH:O	2.15	0.46
9:M:2448:HOH:O	5:P:283:GLY:HA2	2.15	0.46
2:M:708:TYR:N	2:M:708:TYR:CD1	2.79	0.46
3:N:586:ARG:HG2	9:N:2658:HOH:O	2.16	0.45
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.46	0.45
2:C:860:HIS:HE2	2:C:975:TYR:HB2	1.81	0.45
3:D:1106:VAL:HG21	3:D:1474:ALA:HB2	1.99	0.45
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.98	0.45
3:D:564:GLU:HB2	9:F:9561:HOH:O	2.16	0.45
1:L:153:ALA:HA	1:L:156:HIS:NE2	2.30	0.45
1:A:9:PRO:HB3	1:A:25:LEU:HG	1.98	0.45
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.51	0.45
3:D:1346:ARG:HB2	3:D:1346:ARG:HH11	1.81	0.45
3:D:1043:GLY:O	3:D:1056:PRO:HB3	2.15	0.45
5:F:226:LYS:HE3	9:F:9804:HOH:O	2.17	0.45
3:D:1403:LEU:HD12	9:D:2493:HOH:O	2.15	0.45
3:D:531:ASP:HB2	9:D:2123:HOH:O	2.16	0.45
2:M:822:VAL:HG13	9:M:9775:HOH:O	2.15	0.45
3:N:1495:ILE:O	3:N:1498:ALA:HB3	2.16	0.45
3:D:235:ALA:HB3	9:D:2112:HOH:O	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:354:GLY:HA2	9:C:9624:HOH:O	2.15	0.45
2:M:60:GLY:HA2	9:M:9972:HOH:O	2.16	0.45
1:B:87:VAL:HA	9:B:9635:HOH:O	2.16	0.45
2:M:1051:GLU:HG2	2:M:1056:LYS:CD	2.44	0.45
1:A:211:LEU:HD12	1:A:211:LEU:O	2.16	0.45
2:C:578:VAL:HG21	2:C:991:GLN:O	2.16	0.45
5:P:132:ARG:NH1	5:P:136:LEU:HD21	2.27	0.45
3:N:765:SER:O	3:N:767:HIS:N	2.49	0.45
2:M:890:LEU:HA	2:M:914:ILE:HD13	1.96	0.45
2:M:83:CYS:CA	2:M:88:LEU:HB3	2.42	0.45
2:C:773:LEU:O	2:C:777:ILE:HG13	2.16	0.45
2:C:339:LEU:HB3	2:C:385:PHE:HZ	1.81	0.45
2:M:893:ALA:O	2:M:897:LEU:HD22	2.16	0.45
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.44	0.45
2:M:1086:ARG:HH11	2:M:1112:PHE:HA	1.82	0.45
3:N:523:ASP:O	3:N:526:PRO:HG3	2.17	0.45
2:M:603:VAL:HG23	2:M:647:GLN:O	2.16	0.45
3:N:1087:ARG:HG2	3:N:1087:ARG:HH11	1.81	0.45
3:D:1290:LEU:CD2	3:D:1291:SER:H	2.28	0.45
2:C:43:GLY:HA2	2:C:341:THR:OG1	2.16	0.45
3:N:1365:ASP:O	3:N:1369:GLU:HG3	2.16	0.45
2:M:811:PRO:HD3	9:M:9734:HOH:O	2.16	0.45
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.32	0.45
2:C:742:VAL:HG23	9:C:2181:HOH:O	2.15	0.45
2:C:471:TYR:HE1	2:C:491:GLU:OE2	1.99	0.45
4:O:61:GLU:O	4:O:65:MET:HE2	2.16	0.45
3:N:827:ILE:O	3:N:837:GLY:HA3	2.16	0.45
4:O:69:LEU:O	4:O:69:LEU:HD23	2.16	0.45
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.31	0.45
3:N:1246:VAL:HG21	9:N:2444:HOH:O	2.16	0.45
3:N:156:GLU:O	3:N:159:ARG:HB3	2.17	0.45
1:A:216:GLU:HG3	1:A:220:GLU:OE1	2.16	0.45
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.98	0.45
3:D:1256:LEU:HA	3:D:1259:VAL:HG23	1.98	0.45
2:C:68:PHE:HZ	2:C:71:TYR:HB3	1.80	0.45
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.40	0.45
2:C:10:ARG:HH11	2:C:11:GLU:H	1.63	0.45
2:C:16:PRO:O	2:C:18:LEU:HD12	2.16	0.45
2:C:873:PRO:O	2:C:876:VAL:HG23	2.16	0.45
3:N:1425:THR:CG2	3:N:1426:LYS:N	2.79	0.45
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.51	0.45
5:F:220:LEU:O	5:F:224:VAL:HG23	2.15	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:184:THR:O	1:K:192:LEU:HB2	2.16	0.45
2:C:1021:LEU:HG	2:C:1022:GLY:N	2.31	0.45
2:M:77:PRO:HD3	2:M:93:PRO:HD3	1.98	0.45
5:F:104:ARG:CZ	9:F:9749:HOH:O	2.64	0.45
3:N:1380:GLU:HB2	3:N:1420:LEU:HD23	1.98	0.45
2:C:238:LEU:HD23	2:C:241:LEU:HB3	1.99	0.45
3:D:115:LEU:HD22	3:D:502:PHE:HE1	1.80	0.45
3:D:750:PRO:O	3:D:756:GLN:OE1	2.35	0.45
2:M:768:THR:CG2	2:M:771:GLU:HB3	2.46	0.45
1:A:206:THR:CG2	1:A:209:GLU:H	2.30	0.45
1:L:206:THR:HG23	1:L:208:LEU:N	2.31	0.45
2:M:52:PHE:O	2:M:54:ILE:N	2.50	0.45
2:M:68:PHE:CE1	2:M:96:ALA:HB1	2.44	0.45
3:D:493:ARG:HG2	3:D:493:ARG:NH1	2.30	0.45
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.52	0.45
3:N:65:ARG:H	3:N:68:PHE:HZ	1.64	0.45
3:N:1012:GLU:HG3	3:N:1021:TYR:OH	2.15	0.45
2:C:30:LEU:HD12	2:C:30:LEU:O	2.16	0.45
2:M:713:ARG:NH2	2:M:819:VAL:HG22	2.32	0.45
3:N:696:HIS:HB2	4:O:48:MET:CE	2.47	0.45
3:D:135:LEU:HA	3:D:453:ASP:O	2.16	0.45
3:N:1500:LYS:O	3:N:1503:VAL:HG23	2.16	0.45
3:D:799:LYS:N	3:D:826:PRO:HG2	2.31	0.45
3:D:618:LEU:HD11	3:D:1463:LYS:HD2	1.97	0.45
5:P:338:LEU:HB2	9:P:5459:HOH:O	2.16	0.45
3:D:411:THR:HG23	9:D:9915:HOH:O	2.16	0.45
2:M:626:ARG:HG2	9:M:2116:HOH:O	2.15	0.45
2:C:64:LEU:HB2	2:C:359:MET:SD	2.56	0.45
3:D:427:VAL:HB	3:D:435:VAL:HB	1.99	0.45
3:N:427:VAL:HB	3:N:435:VAL:CG2	2.47	0.45
2:M:905:ILE:HG22	2:M:906:PHE:CD1	2.52	0.45
3:D:191:LEU:HD22	3:D:195:VAL:HG11	1.98	0.45
2:C:455:LEU:O	2:C:541:SER:HB3	2.16	0.45
4:E:37:ASN:HD22	4:E:89:MET:HE2	1.81	0.45
3:D:153:LEU:HD11	3:D:157:GLU:HB2	1.97	0.45
3:D:965:GLU:HB2	9:D:9490:HOH:O	2.16	0.45
3:D:462:GLN:HB2	3:D:513:ILE:HG21	1.98	0.45
3:N:171:LEU:HB2	3:N:390:PRO:CA	2.47	0.45
3:N:171:LEU:HA	3:N:390:PRO:HA	1.97	0.45
5:F:270:LYS:HB3	5:F:295:MET:CE	2.46	0.45
2:C:80:GLN:O	2:C:83:CYS:HB2	2.17	0.45
2:M:435:TYR:C	2:M:437:ARG:H	2.18	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.81	0.45
3:D:926:LYS:HE3	9:D:9911:HOH:O	2.16	0.45
1:A:111:ALA:HB3	1:A:124:ASN:O	2.16	0.45
3:D:1278:ASP:HB2	3:D:1318:TYR:CE1	2.51	0.45
3:N:95:LEU:HA	3:N:551:ASN:OD1	2.15	0.45
3:D:862:ASP:O	3:D:877:PRO:HD3	2.16	0.45
3:D:661:MET:SD	3:D:687:VAL:HG22	2.57	0.45
2:C:598:GLU:HB2	2:C:615:TYR:OH	2.17	0.45
3:D:957:PRO:HG3	3:D:1010:ASN:HD22	1.81	0.45
2:C:939:ARG:HG3	9:C:9564:HOH:O	2.16	0.45
1:K:30:ARG:HG3	1:K:30:ARG:NH1	2.31	0.45
2:C:165:LEU:HA	2:C:166:PRO:O	2.16	0.45
1:B:189:ARG:HG3	9:B:9505:HOH:O	2.16	0.45
2:C:261:ILE:HA	9:C:2458:HOH:O	2.17	0.45
2:M:127:PHE:O	2:M:133:ASP:HA	2.16	0.45
2:M:110:GLU:CG	2:M:369:PRO:HG3	2.29	0.45
3:N:1033:GLN:HB3	9:N:9622:HOH:O	2.17	0.45
3:D:521:PRO:C	3:D:525:ARG:HH11	2.20	0.45
5:F:215:GLU:N	9:F:9503:HOH:O	2.48	0.45
2:M:164:PRO:HG2	9:M:9517:HOH:O	2.17	0.45
3:D:153:LEU:HD13	3:D:157:GLU:HB2	1.98	0.45
3:N:28:LYS:O	3:N:43:GLY:HA2	2.16	0.45
2:M:267:TYR:HB2	2:M:272:ALA:CB	2.47	0.45
3:N:950:GLY:O	3:N:951:ILE:C	2.54	0.45
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.17	0.45
5:F:393:THR:O	5:F:397:ILE:HG13	2.16	0.45
3:N:806:PHE:CG	3:N:806:PHE:O	2.69	0.45
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.47	0.45
3:N:984:THR:HG22	3:N:987:GLU:CG	2.40	0.45
2:M:64:LEU:HB2	2:M:359:MET:SD	2.56	0.45
2:M:1085:PHE:O	2:M:1089:VAL:HG23	2.17	0.45
2:C:839:LEU:N	2:C:839:LEU:HD23	2.31	0.45
2:M:1036:GLU:O	2:M:1039:ALA:HB3	2.16	0.45
3:D:1341:PRO:O	3:D:1344:VAL:HG23	2.17	0.45
2:C:1039:ALA:O	2:C:1043:TYR:HD1	1.98	0.45
2:C:115:LEU:HD22	2:C:373:VAL:CG1	2.46	0.45
2:C:716:LYS:HE3	9:C:9571:HOH:O	2.16	0.45
1:L:110:LYS:HD3	9:L:4382:HOH:O	2.16	0.45
1:A:59:GLU:HG3	1:A:139:ASN:CG	2.37	0.45
1:A:182:GLU:HB3	9:A:9489:HOH:O	2.17	0.45
2:C:9:ILE:O	2:C:9:ILE:HG13	2.16	0.45
2:C:410:ILE:HD12	2:C:410:ILE:N	2.32	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:140:ILE:CD1	2:C:412:ALA:HA	2.47	0.45
2:M:626:ARG:HB2	2:M:639:GLN:NE2	2.31	0.45
1:B:86:VAL:HG13	1:B:123:MET:HB2	1.98	0.45
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.46	0.45
3:N:1213:ARG:HD3	9:N:2343:HOH:O	2.15	0.45
3:N:729:HIS:CE1	3:N:731:LEU:HG	2.47	0.45
3:N:728:LEU:HD11	3:N:732:VAL:CG2	2.46	0.45
3:D:729:HIS:ND1	3:D:730:PRO:N	2.64	0.45
3:D:553:ARG:HH22	5:F:211:ASP:CG	2.19	0.45
5:P:128:ARG:O	5:P:132:ARG:HG3	2.16	0.45
3:D:566:ILE:CG1	5:F:192:LEU:HD11	2.46	0.45
3:D:399:ARG:HB3	3:D:402:PRO:HG3	1.98	0.45
5:P:141:VAL:O	5:P:145:PRO:HD2	2.15	0.45
2:C:286:SER:HB3	2:C:299:LYS:HE3	1.98	0.45
2:C:41:ASN:N	2:C:41:ASN:HD22	1.97	0.45
2:M:897:LEU:HD22	2:M:921:ALA:HB2	1.98	0.45
3:N:1114:THR:HG23	3:N:1114:THR:O	2.16	0.45
2:M:1104:GLU:HA	3:N:6:ARG:HD3	1.97	0.45
2:M:68:PHE:CZ	2:M:71:TYR:HB3	2.49	0.45
1:A:218:LEU:HD23	1:B:222:LEU:HD21	1.99	0.45
2:M:704:HIS:CG	2:M:831:ARG:HH21	2.34	0.45
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.46	0.45
2:C:1101:THR:HB	3:D:5:VAL:CG1	2.46	0.45
3:N:1353:GLN:HE21	3:N:1353:GLN:HB3	1.54	0.45
3:N:1353:GLN:HE21	3:N:1357:ARG:NE	2.15	0.45
4:O:17:TYR:O	4:O:21:VAL:HG23	2.16	0.45
1:L:189:ARG:HG3	1:L:189:ARG:HH11	1.81	0.45
5:F:282:LEU:HB2	5:F:284:ARG:H	1.81	0.45
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.32	0.45
1:L:94:LEU:HD11	9:L:4208:HOH:O	2.16	0.45
3:D:619:LEU:HB2	9:D:9516:HOH:O	2.15	0.45
3:N:179:VAL:HG22	3:N:389:GLU:HG3	1.99	0.45
1:A:128:HIS:CE1	1:A:131:THR:HG23	2.51	0.45
1:L:9:PRO:HB3	1:L:25:LEU:HG	1.98	0.45
2:M:380:ALA:HA	2:M:383:ARG:HG2	1.99	0.45
2:C:165:LEU:HD12	2:C:166:PRO:C	2.37	0.45
3:D:169:TYR:HA	3:D:392:SER:HA	1.99	0.45
2:C:713:ARG:NH1	3:D:532:GLY:HA2	2.31	0.45
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.99	0.45
3:N:651:GLU:HA	3:N:651:GLU:OE1	2.17	0.45
5:F:241:TRP:HA	5:F:244:ARG:NH1	2.31	0.45
3:D:1467:ILE:HG13	9:D:9868:HOH:O	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:263:HIS:HB2	9:F:9611:HOH:O	2.17	0.45
2:C:863:ASP:O	2:C:865:THR:N	2.50	0.45
3:D:1258:ARG:NE	3:D:1262:LEU:HD11	2.32	0.45
3:N:197:SER:HB2	3:N:205:TYR:OH	2.17	0.45
3:D:1094:LEU:HD23	9:D:9776:HOH:O	2.16	0.45
2:C:326:ASP:HB2	2:C:431:HIS:ND1	2.32	0.45
3:D:639:LEU:CD1	3:D:640:HIS:H	2.29	0.45
3:D:767:HIS:CD2	4:E:6:ILE:HG12	2.52	0.45
3:N:1432:LYS:H	3:N:1432:LYS:HG3	1.48	0.45
3:N:130:SER:O	3:N:568:ARG:NH2	2.50	0.45
2:C:1060:ILE:HG23	2:C:1061:GLU:N	2.31	0.45
5:F:374:GLY:N	9:F:9672:HOH:O	2.49	0.45
3:D:1312:LEU:HB2	9:D:2444:HOH:O	2.16	0.45
4:E:13:VAL:HG21	4:E:19:LEU:HB2	1.98	0.45
2:M:688:ILE:N	2:M:688:ILE:HD12	2.31	0.45
4:O:75:PHE:HD1	9:O:5601:HOH:O	1.99	0.45
3:N:1312:LEU:CB	9:N:9707:HOH:O	2.64	0.45
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.51	0.45
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.51	0.45
3:N:989:TYR:HB2	9:N:9817:HOH:O	2.17	0.45
1:K:20:TYR:CE2	1:K:22:GLU:HG2	2.52	0.45
2:C:817:PRO:C	2:C:819:VAL:H	2.20	0.45
4:O:70:THR:CB	4:O:72:ARG:HE	2.29	0.45
3:D:1084:THR:HG22	9:D:9646:HOH:O	2.17	0.45
3:N:701:LEU:H	3:N:701:LEU:HD22	1.82	0.45
3:N:647:ARG:CZ	3:N:680:GLN:HE21	2.29	0.45
3:N:683:ILE:HG22	9:N:2260:HOH:O	2.16	0.45
2:C:704:HIS:CG	2:C:831:ARG:HE	2.34	0.45
3:D:666:ILE:HG13	3:D:666:ILE:H	1.61	0.45
2:C:693:GLU:OE2	2:C:855:VAL:HG21	2.17	0.45
2:M:3:ILE:HG21	9:M:2314:HOH:O	2.16	0.45
3:N:379:ALA:HB2	9:N:9717:HOH:O	2.15	0.45
3:D:700:VAL:HB	3:D:748:HIS:O	2.17	0.45
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.47	0.45
3:D:1383:ASP:HB3	3:D:1416:ALA:H	1.82	0.45
5:P:392:VAL:CG1	5:P:396:ARG:HG3	2.47	0.45
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.98	0.45
3:D:507:ASN:HB3	9:D:9971:HOH:O	2.17	0.45
5:P:154:LYS:HE3	5:P:158:GLU:HG2	1.98	0.45
3:D:764:LEU:HD12	3:D:765:SER:N	2.32	0.45
2:C:886:LEU:CG	3:D:951:ILE:HG13	2.46	0.45
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.32	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:193:ARG:NH2	9:F:9492:HOH:O	2.50	0.45
5:F:84:TYR:CD2	5:F:192:LEU:HD13	2.52	0.45
3:D:637:LEU:HD11	3:D:641:GLN:HB2	1.99	0.45
3:D:1264:GLU:OE2	3:D:1264:GLU:HA	2.16	0.45
3:D:728:LEU:HD13	3:D:745:MET:CE	2.45	0.45
1:A:100:LEU:N	9:A:9585:HOH:O	2.48	0.45
3:D:127:LEU:HD21	3:D:461:ILE:CD1	2.44	0.45
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.52	0.45
3:N:996:TRP:O	3:N:1000:THR:HG22	2.17	0.45
2:C:114:PHE:CD1	2:C:114:PHE:N	2.84	0.45
2:M:1034:GLU:CA	2:M:1037:VAL:HG23	2.47	0.45
5:P:372:ARG:HG2	9:P:6083:HOH:O	2.17	0.45
4:O:43:GLU:HG2	4:O:44:GLU:N	2.32	0.45
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.52	0.45
2:C:4:LYS:HB2	9:C:9680:HOH:O	2.17	0.45
3:N:1348:LEU:HA	3:N:1348:LEU:HD13	1.81	0.45
1:B:102:LYS:HE2	1:B:104:GLU:OE1	2.17	0.45
4:O:87:LYS:HE2	4:O:91:ARG:CZ	2.47	0.45
5:P:270:LYS:HE2	9:P:5582:HOH:O	2.17	0.45
3:N:598:ARG:NH2	5:P:318:GLU:O	2.48	0.45
2:C:70:GLU:HB2	2:C:97:ARG:HD2	1.98	0.45
3:N:82:LYS:HD3	5:P:337:HIS:HB3	1.99	0.45
3:N:55:ASP:HA	3:N:82:LYS:HE3	1.98	0.45
5:P:134:LYS:HA	9:P:4179:HOH:O	2.16	0.45
2:M:290:LEU:HB3	2:M:302:VAL:HG12	1.98	0.45
3:D:180:LYS:HG3	9:D:2419:HOH:O	2.17	0.45
3:N:1211:MET:HG2	3:N:1213:ARG:NE	2.32	0.45
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.99	0.45
2:C:1088:LEU:HA	2:C:1091:GLU:OE1	2.17	0.45
3:D:90:MET:N	9:D:9497:HOH:O	2.50	0.45
2:C:89:THR:HG21	2:C:383:ARG:HH22	1.82	0.45
5:F:132:ARG:HG2	5:F:181:GLU:CD	2.36	0.45
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.80	0.45
5:F:196:VAL:HG13	5:F:213:ILE:CD1	2.46	0.45
3:N:1390:LEU:HD22	9:N:2508:HOH:O	2.16	0.45
2:M:987:ILE:HG12	3:N:948:THR:CG2	2.47	0.45
2:M:842:ARG:HB2	9:M:9551:HOH:O	2.16	0.45
5:F:370:LYS:HZ3	5:F:371:LEU:HG	1.81	0.45
2:M:52:PHE:HB3	2:M:53:PRO:HD3	1.99	0.45
3:N:972:LEU:HD21	3:N:976:GLN:HE21	1.82	0.45
3:D:127:LEU:CD1	3:D:457:GLY:H	2.30	0.45
2:M:1039:ALA:O	2:M:1043:TYR:HD1	2.00	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:853:VAL:HG22	3:D:858:VAL:HG23	1.99	0.45
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.17	0.45
1:K:91:ASN:H	1:K:94:LEU:HD12	1.82	0.45
1:K:89:PHE:CB	1:K:94:LEU:HD13	2.45	0.45
1:K:41:ARG:NH1	1:K:177:VAL:HB	2.32	0.45
9:M:2262:HOH:O	3:N:3:LYS:HB3	2.17	0.45
3:N:411:THR:HG21	9:N:9532:HOH:O	2.17	0.45
2:C:20:GLU:HG2	2:C:21:ILE:N	2.31	0.45
2:C:532:MET:HG3	2:C:533:ASP:N	2.32	0.45
3:N:1175:ILE:O	3:N:1179:GLU:HG3	2.16	0.45
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.30	0.45
3:N:55:ASP:HB3	3:N:82:LYS:HE3	1.98	0.45
3:N:882:PHE:O	3:N:886:VAL:HG23	2.17	0.45
2:M:1029:GLY:HA3	3:N:623:VAL:O	2.17	0.45
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.35	0.45
1:A:197:LEU:HD23	1:A:197:LEU:H	1.82	0.45
2:C:211:LEU:HD11	2:C:308:ARG:CB	2.37	0.45
3:N:18:ILE:HG21	3:N:516:ALA:O	2.17	0.45
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.31	0.45
3:D:1466:VAL:CG2	3:D:1472:ILE:HD11	2.39	0.45
1:A:133:GLU:CG	1:A:134:GLU:N	2.76	0.45
5:F:291:ILE:CG2	5:F:304:VAL:HG21	2.46	0.45
2:M:227:PHE:HB3	9:M:9899:HOH:O	2.17	0.45
2:M:571:LEU:HD12	2:M:701:THR:O	2.17	0.45
2:C:1051:GLU:HG2	2:C:1056:LYS:HG3	1.98	0.45
1:A:99:LEU:C	1:A:100:LEU:HD12	2.37	0.45
3:D:141:ILE:CG2	3:D:161:LEU:HD21	2.45	0.45
5:F:416:ARG:NH1	9:F:9866:HOH:O	2.46	0.45
2:M:770:GLU:HB2	9:N:2049:HOH:O	2.17	0.45
3:D:645:PRO:HG3	3:D:725:SER:O	2.16	0.45
3:D:165:LYS:CB	3:D:395:VAL:HG11	2.44	0.45
3:N:696:HIS:HB2	4:O:48:MET:HE1	1.99	0.45
3:N:161:LEU:HD13	3:N:452:ILE:HD13	1.99	0.45
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.99	0.45
1:B:77:GLU:HB2	3:D:872:ARG:NH2	2.30	0.45
3:D:1115:THR:HG21	3:D:1151:ARG:NH2	2.32	0.45
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.78	0.45
3:D:895:VAL:O	3:D:899:LEU:HG	2.17	0.45
3:D:1283:ILE:HB	3:D:1315:ASP:OD2	2.17	0.45
2:C:196:LEU:HD21	2:C:303:PHE:CG	2.52	0.45
1:L:122:ILE:HD12	1:L:122:ILE:N	2.32	0.45
3:D:188:GLY:HA2	9:D:2289:HOH:O	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:283:ILE:HG23	9:M:2206:HOH:O	2.17	0.45
2:C:896:PHE:O	2:C:924:VAL:HG11	2.17	0.45
1:K:111:ALA:HB3	1:K:124:ASN:O	2.17	0.45
3:D:1090:ASP:HA	3:D:1093:TYR:HB2	1.97	0.44
2:C:359:MET:HA	9:C:2175:HOH:O	2.17	0.44
3:N:1149:LEU:HD11	3:N:1160:LEU:HB3	1.99	0.44
3:D:396:VAL:HG13	3:D:447:VAL:HA	1.98	0.44
3:N:601:ARG:HG2	3:N:606:ILE:CD1	2.46	0.44
3:D:83:SER:O	3:D:86:ARG:HB3	2.17	0.44
2:M:239:PHE:HD1	9:M:9955:HOH:O	1.99	0.44
2:C:578:VAL:HG11	2:C:991:GLN:HB3	2.00	0.44
2:M:772:ARG:HH21	5:P:378:GLY:HA2	1.81	0.44
2:M:983:ILE:CG2	2:M:987:ILE:HD11	2.45	0.44
2:M:542:VAL:HG23	9:M:9944:HOH:O	2.16	0.44
3:D:1418:LYS:HB3	9:D:9806:HOH:O	2.16	0.44
3:N:6:ARG:C	3:N:7:LYS:HG3	2.38	0.44
2:C:186:VAL:HG23	2:C:187:ASN:N	2.25	0.44
2:M:1085:PHE:CZ	3:N:1468:LEU:HG	2.52	0.44
2:M:1088:LEU:HD23	2:M:1089:VAL:N	2.31	0.44
3:D:1492:LEU:HD12	3:D:1493:LYS:NZ	2.31	0.44
2:M:686:ASP:N	9:N:2186:HOH:O	2.49	0.44
3:N:462:GLN:HB3	9:N:9521:HOH:O	2.17	0.44
3:D:804:LEU:HD23	3:D:804:LEU:N	2.30	0.44
3:N:1237:THR:N	9:N:2360:HOH:O	2.49	0.44
2:C:648:ARG:HG2	9:C:9825:HOH:O	2.17	0.44
1:K:199:ILE:HD12	1:K:199:ILE:N	2.32	0.44
3:D:39:PRO:HG2	3:D:47:GLU:OE2	2.17	0.44
2:C:98:LEU:N	2:C:98:LEU:HD12	2.32	0.44
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.81	0.44
3:D:1392:GLY:N	9:D:9923:HOH:O	2.49	0.44
3:N:895:VAL:HG11	3:N:922:LEU:HD21	1.99	0.44
3:D:685:ASP:HB3	9:D:9826:HOH:O	2.16	0.44
3:D:1263:PHE:CZ	3:D:1352:ILE:HD13	2.52	0.44
1:B:150:TYR:HE1	1:B:168:ASP:HB3	1.82	0.44
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.41	0.44
2:M:1008:ARG:NH2	2:M:1020:PRO:HB3	2.32	0.44
3:D:520:LEU:CD2	3:D:540:LEU:HD22	2.47	0.44
3:D:553:ARG:NH1	5:F:211:ASP:HA	2.32	0.44
4:E:37:ASN:HD22	4:E:89:MET:CE	2.30	0.44
2:M:428:ARG:HD3	2:M:449:ILE:O	2.17	0.44
5:F:192:LEU:O	5:F:196:VAL:HG23	2.17	0.44
5:F:303:ARG:NH2	9:F:9668:HOH:O	2.50	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:506:GLY:HA3	3:D:1454:GLY:HA3	2.00	0.44
2:C:405:ARG:HB3	9:C:9528:HOH:O	2.16	0.44
3:N:22:SER:HA	3:N:90:MET:O	2.18	0.44
3:D:1271:LYS:HB2	9:D:2687:HOH:O	2.17	0.44
5:F:222:ARG:HD2	5:F:242:TRP:CE3	2.52	0.44
5:F:172:ARG:O	5:F:176:ILE:HD13	2.16	0.44
2:C:176:VAL:HG11	9:C:9635:HOH:O	2.17	0.44
2:M:753:ASP:O	2:M:792:VAL:HG23	2.17	0.44
3:D:1244:GLY:HA2	9:D:2331:HOH:O	2.17	0.44
3:N:111:LYS:NZ	3:N:498:VAL:HG12	2.32	0.44
5:F:234:LYS:HD3	5:F:236:SER:H	1.82	0.44
3:N:610:LYS:HB3	9:N:2113:HOH:O	2.16	0.44
3:N:416:ALA:H	3:N:417:PRO:CD	2.31	0.44
5:F:229:TYR:HE1	9:F:9586:HOH:O	2.00	0.44
1:L:150:TYR:H	3:N:855:HIS:CE1	2.35	0.44
3:D:587:ARG:HD3	9:D:9502:HOH:O	2.18	0.44
3:D:168:THR:OG1	3:D:393:ILE:HB	2.17	0.44
2:M:794:PRO:HB2	2:M:1027:PHE:HZ	1.82	0.44
2:C:433:THR:CG2	2:C:488:ALA:HB1	2.40	0.44
2:M:720:GLU:CD	2:M:758:ARG:HD2	2.38	0.44
3:D:131:LYS:HE2	5:F:83:GLN:NE2	2.29	0.44
3:N:978:TYR:HD1	9:N:9888:HOH:O	2.00	0.44
3:D:61:GLY:HA2	3:D:64:LYS:HE3	1.98	0.44
3:D:1491:THR:HG22	9:E:9527:HOH:O	2.17	0.44
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.84	0.44
9:C:9809:HOH:O	5:F:349:LEU:HB2	2.16	0.44
3:N:44:LEU:HB3	3:N:525:ARG:NH2	2.26	0.44
2:C:136:ILE:HG23	2:C:391:LEU:CD2	2.47	0.44
1:K:198:ARG:HG2	9:K:3473:HOH:O	2.18	0.44
1:A:97:VAL:HG12	1:A:99:LEU:HD12	1.99	0.44
1:A:85:LEU:HD12	1:A:86:VAL:N	2.32	0.44
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.47	0.44
3:D:477:LEU:HD11	3:D:495:ARG:HD3	1.98	0.44
2:M:422:ARG:NH1	9:M:2004:HOH:O	2.51	0.44
3:D:619:LEU:HD12	9:D:9516:HOH:O	2.16	0.44
3:D:619:LEU:HD23	3:D:619:LEU:O	2.18	0.44
2:C:543:ASN:HD21	2:C:562:SER:C	2.19	0.44
3:D:785:ILE:HD12	3:D:785:ILE:N	2.32	0.44
1:B:95:GLN:HG3	1:B:146:ARG:HD2	2.00	0.44
3:N:1377:LYS:HE2	9:N:9728:HOH:O	2.16	0.44
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.32	0.44
5:F:307:THR:HA	5:F:310:ILE:HD11	1.98	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:58:ASP:O	2:M:59:LYS:HG3	2.17	0.44
1:A:165:ILE:O	1:A:165:ILE:HD12	2.16	0.44
5:P:376:ILE:HG22	5:P:377:ASP:OD1	2.17	0.44
1:K:63:HIS:HB3	9:K:5125:HOH:O	2.16	0.44
2:M:557:ARG:NE	2:M:560:MET:SD	2.90	0.44
3:N:1173:LEU:CD2	3:N:1174:LEU:HD23	2.47	0.44
2:M:1115:LEU:HD21	3:N:84:ILE:HD12	2.00	0.44
3:N:546:ARG:CZ	3:N:550:ARG:NH2	2.81	0.44
2:M:1060:ILE:CG2	2:M:1061:GLU:N	2.80	0.44
1:A:63:HIS:HA	9:A:9482:HOH:O	2.17	0.44
3:N:129:PHE:C	3:N:568:ARG:HH21	2.20	0.44
3:N:29:PRO:HG3	3:N:549:ASN:ND2	2.33	0.44
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.52	0.44
3:D:432:TYR:HB3	3:D:448:GLU:HA	1.99	0.44
5:P:141:VAL:HB	9:P:4054:HOH:O	2.18	0.44
3:D:699:VAL:CG2	3:D:760:ARG:HB3	2.47	0.44
2:C:913:GLU:O	2:C:916:GLU:HB3	2.17	0.44
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.48	0.44
4:O:49:GLN:HA	4:O:51:LEU:O	2.18	0.44
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.47	0.44
2:M:212:GLY:C	2:M:215:GLY:H	2.21	0.44
3:N:800:LYS:HG2	9:N:9629:HOH:O	2.17	0.44
5:P:173:TYR:HE2	9:P:5021:HOH:O	2.00	0.44
3:D:996:TRP:HE3	3:D:999:THR:CG2	2.26	0.44
3:D:838:ARG:HE	3:D:838:ARG:HB2	1.54	0.44
5:P:273:ARG:NH2	9:P:3957:HOH:O	2.50	0.44
3:D:1239:ARG:HH22	3:D:1254:GLN:HB2	1.82	0.44
3:D:805:GLU:HA	9:D:9963:HOH:O	2.16	0.44
2:M:611:ILE:N	2:M:611:ILE:HD12	2.32	0.44
3:N:864:VAL:HG12	3:N:865:THR:N	2.30	0.44
3:D:995:LEU:HD12	9:D:2036:HOH:O	2.16	0.44
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.53	0.44
1:L:73:GLU:HB3	1:L:77:GLU:HG3	1.97	0.44
4:E:70:THR:HG22	4:E:71:GLY:N	2.32	0.44
2:C:140:ILE:HD11	2:C:412:ALA:HA	1.99	0.44
1:A:104:GLU:HB3	9:A:9622:HOH:O	2.15	0.44
4:E:40:LEU:O	4:E:40:LEU:HD22	2.17	0.44
3:N:1153:VAL:HG12	3:N:1155:VAL:HG22	2.00	0.44
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.98	0.44
2:C:492:ASP:HB3	2:C:518:LYS:HD2	1.99	0.44
2:C:73:LEU:O	2:C:73:LEU:HD12	2.16	0.44
2:C:93:PRO:HB3	9:C:9910:HOH:O	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1045:MET:HG2	3:D:1072:ILE:O	2.17	0.44
2:M:159:ILE:C	9:M:9990:HOH:O	2.55	0.44
3:N:29:PRO:HG3	3:N:549:ASN:HD21	1.82	0.44
3:D:630:VAL:O	3:D:726:ILE:HG13	2.17	0.44
3:D:630:VAL:CA	3:D:744:GLN:HG2	2.47	0.44
3:D:1209:LEU:HD22	3:D:1211:MET:SD	2.57	0.44
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.33	0.44
2:M:253:ALA:O	2:M:256:TYR:HB2	2.17	0.44
3:N:396:VAL:HG13	3:N:446:VAL:O	2.18	0.44
2:M:1086:ARG:HB3	2:M:1112:PHE:HE2	1.82	0.44
2:M:769:PRO:HB2	3:N:65:ARG:CZ	2.48	0.44
5:P:286:PRO:HD3	9:P:4921:HOH:O	2.17	0.44
1:L:41:ARG:NH1	1:L:177:VAL:HG23	2.32	0.44
3:D:1288:GLU:OE1	3:D:1289:LYS:HG3	2.17	0.44
1:A:72:LYS:HA	2:C:608:GLY:N	2.32	0.44
1:A:88:ARG:HG2	1:A:88:ARG:O	2.17	0.44
4:O:33:HIS:HA	9:O:5072:HOH:O	2.18	0.44
5:P:100:VAL:HG12	5:P:104:ARG:HH12	1.82	0.44
2:C:79:PRO:HB3	9:C:2096:HOH:O	2.16	0.44
5:P:203:THR:HG22	5:P:204:GLY:N	2.32	0.44
3:N:519:VAL:N	9:N:9660:HOH:O	2.50	0.44
5:P:84:TYR:HD1	9:P:3565:HOH:O	2.00	0.44
2:C:309:TYR:CE2	2:C:321:GLU:HB3	2.53	0.44
1:B:83:LYS:HE3	1:B:167:VAL:HG12	1.99	0.44
3:D:211:VAL:HG13	3:D:393:ILE:HG23	1.99	0.44
2:C:313:LEU:HD12	2:C:313:LEU:O	2.17	0.44
3:N:102:ILE:HG13	9:N:2374:HOH:O	2.15	0.44
2:M:428:ARG:HH21	2:M:451:LEU:HD21	1.82	0.44
1:A:191:ASP:O	1:A:191:ASP:CG	2.56	0.44
3:D:1173:LEU:HD23	3:D:1174:LEU:N	2.32	0.44
2:C:195:LEU:HB3	9:C:9594:HOH:O	2.16	0.44
2:C:525:SER:OG	2:C:527:GLU:HG3	2.17	0.44
3:D:441:ARG:O	3:D:443:VAL:N	2.50	0.44
2:M:561:GLY:HA3	2:M:842:ARG:O	2.17	0.44
5:F:398:ARG:HB3	9:F:9487:HOH:O	2.18	0.44
5:F:412:GLU:HG3	5:F:418:LEU:HD22	1.99	0.44
3:N:526:PRO:HB2	5:P:317:LEU:HD11	2.00	0.44
3:D:917:GLN:HA	9:D:9488:HOH:O	2.16	0.44
2:M:211:LEU:CD1	2:M:308:ARG:HG3	2.48	0.44
1:B:143:ARG:CD	1:B:158:ILE:HG21	2.48	0.44
1:B:143:ARG:HD3	1:B:158:ILE:HG21	1.98	0.44
2:M:816:LYS:HB2	2:M:819:VAL:CG2	2.46	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:817:PRO:C	2:M:819:VAL:H	2.20	0.44
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.38	0.44
2:M:498:GLN:HB3	2:M:500:ASN:OD1	2.18	0.44
2:C:816:LYS:O	2:C:819:VAL:HB	2.18	0.44
1:A:7:LYS:NZ	1:A:188:GLN:HE22	2.15	0.44
3:D:156:GLU:CD	3:D:156:GLU:N	2.70	0.44
1:K:216:GLU:OE1	1:K:219:ARG:HD2	2.17	0.44
5:P:101:GLU:O	5:P:105:LYS:HG3	2.17	0.44
2:C:726:ILE:HG22	2:C:726:ILE:O	2.17	0.44
2:M:189:ARG:HH22	2:M:243:ARG:CD	2.31	0.44
1:B:142:VAL:HG23	1:B:142:VAL:O	2.17	0.44
3:D:780:LYS:HE2	9:D:2356:HOH:O	2.18	0.44
5:F:94:LEU:HD23	5:F:95:THR:N	2.33	0.44
2:M:1013:TYR:CE1	2:M:1020:PRO:HG3	2.52	0.44
2:C:1087:VAL:HG13	2:C:1091:GLU:OE2	2.17	0.44
2:M:964:LYS:HE2	9:M:9902:HOH:O	2.17	0.44
5:P:128:ARG:CZ	5:P:128:ARG:HB2	2.48	0.44
2:M:1038:TRP:HD1	2:M:1041:GLU:OE1	2.00	0.44
2:C:597:ALA:HB2	2:C:655:LEU:CD2	2.45	0.44
2:M:113:VAL:HG12	2:M:115:LEU:HD23	1.98	0.44
3:D:1374:GLN:HG2	9:D:9769:HOH:O	2.17	0.44
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.99	0.44
2:C:41:ASN:HA	2:C:45:GLN:OE1	2.17	0.44
2:M:309:TYR:HA	2:M:312:ALA:HB3	1.99	0.44
5:F:370:LYS:HB3	5:F:370:LYS:HZ3	1.82	0.44
5:F:256:ARG:NE	5:F:260:ILE:HD12	2.33	0.44
2:M:1083:GLU:N	9:M:9532:HOH:O	2.47	0.44
4:E:9:LEU:HD22	4:E:19:LEU:CD1	2.47	0.44
3:N:1353:GLN:HB3	3:N:1357:ARG:NE	2.32	0.44
5:F:372:ARG:HD3	9:F:9526:HOH:O	2.17	0.44
5:F:226:LYS:HD2	5:F:242:TRP:CZ2	2.52	0.44
3:N:666:ILE:HG23	3:N:686:GLU:OE2	2.17	0.44
5:P:413:SER:HA	5:P:416:ARG:HD3	1.98	0.44
3:N:484:PRO:O	3:N:489:ARG:HD2	2.18	0.44
1:L:124:ASN:ND2	1:L:127:LEU:HD22	2.32	0.44
3:D:643:GLY:CA	3:D:727:GLN:HB2	2.46	0.44
3:N:1503:VAL:HG22	9:N:2327:HOH:O	2.18	0.44
3:N:824:ASN:HB3	9:N:9554:HOH:O	2.18	0.44
3:N:681:ARG:HH11	3:N:681:ARG:CB	2.30	0.44
3:N:175:VAL:HA	3:N:389:GLU:OE1	2.17	0.44
3:N:1156:LEU:HD13	3:N:1176:LYS:HD2	2.00	0.44
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.46	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:1:MET:HE1	9:B:9547:HOH:O	2.16	0.44
3:N:1217:ILE:H	3:N:1217:ILE:HG13	1.44	0.44
3:D:719:VAL:O	3:D:719:VAL:HG23	2.18	0.44
3:N:1063:GLU:HB3	9:N:2380:HOH:O	2.17	0.44
3:D:1087:ARG:HB3	3:D:1234:THR:HG23	1.99	0.44
3:D:1236:LEU:HD12	3:D:1256:LEU:CD1	2.47	0.44
3:N:546:ARG:NH1	3:N:550:ARG:NH2	2.65	0.44
2:M:264:PRO:HB3	2:M:289:THR:CG2	2.46	0.44
3:N:1209:LEU:HD21	4:O:16:LYS:NZ	2.33	0.44
3:N:641:GLN:HB3	3:N:717:GLN:O	2.18	0.44
3:D:1310:ARG:HG3	3:D:1327:ARG:HB3	1.99	0.44
3:D:50:PHE:HB3	3:D:522:PRO:HG2	1.99	0.44
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.99	0.44
2:C:444:PRO:HD2	2:C:452:ILE:O	2.18	0.44
2:C:474:VAL:HG13	2:C:530:GLU:O	2.18	0.44
3:N:29:PRO:HG3	9:N:9768:HOH:O	2.17	0.44
2:C:890:LEU:C	2:C:890:LEU:HD23	2.37	0.44
3:D:629:SER:OG	3:D:630:VAL:N	2.50	0.44
3:D:470:LEU:HD11	3:D:509:PRO:HG3	2.00	0.44
3:N:506:GLY:C	3:N:507:ASN:HD22	2.21	0.44
1:A:106:PRO:HG3	1:A:133:GLU:O	2.18	0.44
3:N:951:ILE:HG23	3:N:1062:ARG:HH21	1.82	0.44
3:N:525:ARG:HB2	3:N:538:SER:OG	2.18	0.44
1:K:88:ARG:HB3	9:K:3485:HOH:O	2.16	0.44
2:C:565:GLN:HA	2:C:995:MET:HE3	2.00	0.44
3:N:645:PRO:HB3	3:N:723:GLY:O	2.17	0.44
2:M:704:HIS:O	2:M:705:ILE:HG23	2.17	0.44
1:B:158:ILE:HA	1:B:158:ILE:HD13	1.84	0.44
3:D:867:ARG:HB3	3:D:867:ARG:HH11	1.83	0.44
2:M:925:TYR:C	2:M:925:TYR:CD1	2.91	0.44
3:N:679:ARG:NH2	3:N:681:ARG:HD2	2.33	0.44
1:K:30:ARG:HD2	9:K:4362:HOH:O	2.17	0.44
2:M:1032:PHE:HA	9:M:2368:HOH:O	2.17	0.44
2:C:1103:ASP:N	2:C:1107:ASN:O	2.51	0.44
2:C:493:ARG:HD2	9:C:9650:HOH:O	2.17	0.44
3:D:396:VAL:HG13	3:D:446:VAL:O	2.18	0.44
3:D:175:VAL:HG11	3:D:218:LYS:H	1.83	0.44
2:C:333:ILE:O	2:C:465:GLY:HA3	2.17	0.44
2:M:979:THR:HG23	2:M:981:GLU:HB2	1.99	0.44
3:D:1068:LEU:O	3:D:1068:LEU:HD23	2.18	0.44
2:M:165:LEU:HA	2:M:165:LEU:HD12	1.88	0.44
3:N:767:HIS:NE2	4:O:6:ILE:HD13	2.33	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:464:LEU:HA	2:M:464:LEU:HD12	1.80	0.44
3:D:400:VAL:HA	3:D:442:ASN:O	2.18	0.44
3:D:1455:LYS:C	3:D:1455:LYS:HD3	2.37	0.44
3:N:33:ASN:O	3:N:36:THR:O	2.36	0.44
1:K:198:ARG:HB2	1:K:200:TRP:CH2	2.53	0.44
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.83	0.44
3:N:1438:ALA:N	3:N:1446:VAL:HG11	2.33	0.44
2:M:269:LEU:O	2:M:269:LEU:HD23	2.18	0.44
2:M:704:HIS:CG	2:M:831:ARG:HE	2.36	0.44
2:M:1042:ALA:CB	3:N:710:ARG:HE	2.29	0.44
3:D:1332:PRO:HB2	3:D:1421:LEU:HD22	2.00	0.44
3:D:1281:VAL:HG23	3:D:1317:ASP:O	2.18	0.44
3:N:661:MET:SD	3:N:673:ALA:HB1	2.57	0.44
1:B:109:VAL:HG22	9:B:9571:HOH:O	2.17	0.44
2:C:630:ARG:HE	2:C:705:ILE:HG13	1.82	0.44
2:C:816:LYS:HB2	2:C:819:VAL:CG2	2.47	0.44
3:N:1192:LEU:HD22	3:N:1345:GLU:OE2	2.18	0.44
2:C:25:SER:OG	2:C:337:GLY:N	2.48	0.44
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.82	0.44
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.31	0.44
2:M:62:GLY:O	2:M:103:LYS:HG3	2.18	0.44
2:M:910:LYS:HB3	2:M:912:PRO:HD2	2.00	0.44
4:O:61:GLU:C	4:O:65:MET:HE2	2.38	0.44
1:B:48:ILE:HD13	1:B:210:ALA:HB1	2.00	0.44
3:N:832:ARG:HG2	9:N:9674:HOH:O	2.18	0.44
1:B:112:ARG:CZ	1:B:112:ARG:HB3	2.47	0.44
1:L:151:VAL:HB	1:L:169:ALA:HB3	1.99	0.44
2:M:930:LYS:HA	9:M:9525:HOH:O	2.18	0.44
3:N:456:MET:C	9:N:2390:HOH:O	2.56	0.44
2:C:110:GLU:HB2	2:C:368:THR:HG22	1.99	0.43
2:C:71:TYR:H	2:C:71:TYR:HD2	1.65	0.43
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.33	0.43
3:D:191:LEU:HB3	3:D:195:VAL:HG21	2.00	0.43
3:N:637:LEU:HD12	3:N:641:GLN:OE1	2.16	0.43
3:D:525:ARG:N	3:D:526:PRO:HD3	2.33	0.43
3:D:569:ASN:HD21	5:F:210:LEU:HD22	1.82	0.43
5:P:358:LEU:HD11	5:P:370:LYS:NZ	2.33	0.43
2:C:195:LEU:HD12	2:C:234:ALA:HB1	1.99	0.43
2:C:235:LEU:HA	9:C:2083:HOH:O	2.18	0.43
3:D:669:ASN:HB3	9:D:9547:HOH:O	2.17	0.43
2:M:418:LEU:HD12	2:M:418:LEU:N	2.33	0.43
2:M:670:GLN:HG3	2:M:700:TYR:CE2	2.53	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:195:LEU:CD2	2:M:238:LEU:HG	2.48	0.43
3:N:1109:GLU:CD	3:N:1202:GLN:H	2.21	0.43
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.57	0.43
2:M:1090:LYS:HD2	3:N:90:MET:SD	2.58	0.43
3:D:1496:GLU:O	3:D:1500:LYS:HG3	2.17	0.43
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.31	0.43
5:F:319:THR:HB	5:F:321:ILE:HD11	1.99	0.43
5:P:223:ALA:HB2	5:P:242:TRP:HB2	1.99	0.43
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	2.00	0.43
2:M:916:GLU:O	2:M:919:ALA:HB3	2.18	0.43
3:D:650:LEU:HD22	3:D:688:TRP:CZ3	2.53	0.43
3:D:1393:GLN:HB2	3:D:1398:TRP:HZ2	1.81	0.43
2:M:380:ALA:O	2:M:383:ARG:HG2	2.18	0.43
2:C:712:ALA:HB1	9:C:2168:HOH:O	2.18	0.43
2:C:863:ASP:OD1	2:C:865:THR:HG22	2.18	0.43
2:C:360:LEU:HD12	9:C:9600:HOH:O	2.18	0.43
3:D:16:GLU:HA	3:D:19:ARG:NH1	2.33	0.43
3:N:994:GLN:HA	3:N:994:GLN:HE21	1.83	0.43
3:D:1406:ARG:HD3	3:D:1406:ARG:C	2.39	0.43
2:M:241:LEU:HD23	9:M:9797:HOH:O	2.18	0.43
4:E:52:GLU:HB3	4:E:55:PHE:CZ	2.53	0.43
3:D:216:VAL:HG12	9:D:9947:HOH:O	2.17	0.43
2:C:68:PHE:HE1	2:C:96:ALA:HB1	1.82	0.43
2:C:674:VAL:HG12	2:C:990:GLY:O	2.18	0.43
2:C:689:VAL:HB	2:C:870:ILE:CG1	2.36	0.43
2:C:460:ARG:HD2	2:C:485:TYR:CD2	2.52	0.43
2:C:535:SER:HB2	2:C:537:LYS:HD3	2.00	0.43
2:C:557:ARG:NH1	2:C:879:ARG:HG2	2.33	0.43
3:D:1023:MET:O	3:D:1028:ALA:HB3	2.18	0.43
1:A:63:HIS:HE1	9:C:2299:HOH:O	2.00	0.43
2:C:443:THR:HG23	2:C:449:ILE:HG13	1.99	0.43
3:D:1031:ASN:O	3:D:1034:GLN:HB2	2.17	0.43
3:D:1042:ARG:O	3:D:1057:VAL:HB	2.18	0.43
5:P:85:LEU:HD22	5:P:193:ARG:CD	2.48	0.43
3:D:1219:GLU:HG2	3:D:1220:ALA:N	2.33	0.43
3:N:1096:ARG:HH11	3:N:1096:ARG:HG2	1.82	0.43
2:C:232:GLU:HG3	2:C:235:LEU:CD1	2.48	0.43
3:D:513:ILE:HA	9:D:9738:HOH:O	2.18	0.43
2:M:728:HIS:CE1	2:M:775:ARG:HH12	2.36	0.43
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.45	0.43
5:F:359:SER:C	5:F:361:LEU:H	2.21	0.43
3:D:6:ARG:HH11	3:D:6:ARG:CB	2.24	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:143:ARG:NH1	1:B:158:ILE:HG23	2.33	0.43
3:D:1267:ARG:HH22	3:D:1333:HIS:HD2	1.65	0.43
1:K:209:GLU:O	1:K:213:GLN:HG3	2.19	0.43
4:E:54:LEU:HA	4:E:58:PRO:HG2	2.01	0.43
3:N:661:MET:HE1	3:N:677:LEU:HD11	2.01	0.43
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.99	0.43
2:C:572:ILE:CG2	2:C:703:ILE:HD13	2.49	0.43
4:O:82:GLU:O	4:O:85:LEU:HD22	2.18	0.43
3:N:115:LEU:HD12	3:N:499:VAL:HG22	1.99	0.43
2:C:838:LYS:O	2:C:838:LYS:HG3	2.18	0.43
1:A:2:LEU:O	1:A:6:LEU:HB3	2.18	0.43
9:D:9603:HOH:O	5:F:337:HIS:HB3	2.18	0.43
2:C:111:ASP:HB3	2:C:112:GLU:OE2	2.18	0.43
2:M:625:LEU:HD22	2:M:639:GLN:HB3	2.00	0.43
2:M:1097:LEU:HD22	2:M:1097:LEU:H	1.83	0.43
5:P:211:ASP:N	5:P:211:ASP:OD1	2.51	0.43
3:N:915:VAL:HG13	3:N:931:LEU:HD21	2.00	0.43
3:D:553:ARG:CZ	9:F:9503:HOH:O	2.65	0.43
3:D:553:ARG:NE	9:D:9572:HOH:O	2.51	0.43
1:A:66:SER:O	1:A:75:VAL:HG23	2.19	0.43
2:M:674:VAL:O	2:M:989:VAL:HA	2.17	0.43
4:E:61:GLU:OE2	4:E:62:THR:N	2.52	0.43
5:F:295:MET:HB3	5:F:299:TRP:CG	2.53	0.43
2:M:707:ARG:HH12	2:M:709:GLU:CB	2.21	0.43
2:M:461:VAL:HG13	2:M:465:GLY:HA2	1.99	0.43
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.54	0.43
3:N:852:ALA:O	3:N:857:ILE:HG12	2.18	0.43
1:L:100:LEU:HB2	1:L:115:LEU:CD2	2.44	0.43
3:N:996:TRP:HE3	3:N:999:THR:HG21	1.83	0.43
2:M:287:GLY:O	2:M:288:ARG:C	2.56	0.43
3:N:153:LEU:HD11	3:N:158:TYR:CA	2.48	0.43
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.53	0.43
3:D:853:VAL:CG2	3:D:858:VAL:HG23	2.48	0.43
5:F:282:LEU:CD1	5:F:286:PRO:HG3	2.49	0.43
2:C:190:LYS:HG3	9:C:9876:HOH:O	2.19	0.43
3:D:805:GLU:O	3:D:805:GLU:OE1	2.37	0.43
5:F:305:GLU:O	5:F:309:LYS:HG3	2.18	0.43
5:F:115:LYS:HG3	5:F:173:TYR:HE2	1.82	0.43
3:D:1154:GLU:HB2	9:D:9708:HOH:O	2.18	0.43
1:K:9:PRO:HD2	1:L:224:TYR:CZ	2.53	0.43
1:A:18:ARG:NH2	1:A:88:ARG:NH2	2.65	0.43
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.83	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1413:THR:HG22	9:D:2035:HOH:O	2.18	0.43
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.99	0.43
5:F:241:TRP:HA	5:F:244:ARG:HH12	1.83	0.43
5:F:230:LYS:HD3	9:F:9882:HOH:O	2.17	0.43
2:M:957:LYS:HA	9:M:2387:HOH:O	2.18	0.43
2:C:861:LEU:HD23	2:C:862:PRO:N	2.34	0.43
3:D:130:SER:O	3:D:568:ARG:NH2	2.50	0.43
2:C:938:LYS:N	9:C:9976:HOH:O	2.51	0.43
3:D:1495:ILE:O	3:D:1498:ALA:HB3	2.18	0.43
5:P:412:GLU:HA	9:P:3726:HOH:O	2.17	0.43
3:D:1107:VAL:O	3:D:1218:GLY:N	2.49	0.43
3:N:1135:ARG:HD3	3:N:1139:ASP:HB2	1.98	0.43
1:K:197:LEU:H	1:K:197:LEU:CD2	2.30	0.43
3:D:703:ASN:ND2	3:D:704:ARG:N	2.66	0.43
1:K:156:HIS:CD2	1:K:157:GLY:N	2.86	0.43
2:C:580:MET:HB2	2:C:902:ILE:HG12	1.99	0.43
3:D:890:VAL:HG21	3:D:922:LEU:CD1	2.49	0.43
2:M:1005:MET:HE3	3:N:645:PRO:HB2	2.01	0.43
2:M:603:VAL:H	2:M:647:GLN:H	1.66	0.43
2:M:36:PRO:HG2	2:M:70:GLU:CB	2.46	0.43
2:M:389:SER:HB2	9:M:9823:HOH:O	2.17	0.43
1:K:101:LEU:HG	1:K:114:PHE:CA	2.43	0.43
3:D:838:ARG:HD3	3:D:874:GLU:HB3	2.00	0.43
3:N:1403:LEU:HD23	3:N:1407:LEU:CD2	2.47	0.43
2:C:607:ASP:HB3	2:C:610:ARG:H	1.84	0.43
2:M:1067:TYR:CE1	3:N:655:PRO:HB3	2.54	0.43
3:N:835:SER:N	9:N:9806:HOH:O	2.52	0.43
1:A:18:ARG:HD3	1:A:123:MET:CE	2.48	0.43
2:M:132:ALA:HB2	9:M:2414:HOH:O	2.18	0.43
3:D:762:GLN:HE21	4:E:20:THR:HG21	1.83	0.43
2:M:1100:GLN:HB2	2:M:1100:GLN:HE21	1.69	0.43
2:M:175:GLU:HB3	2:M:183:SER:OG	2.18	0.43
3:N:1449:GLU:HG2	9:N:9651:HOH:O	2.18	0.43
1:A:89:PHE:HB2	9:A:9536:HOH:O	2.17	0.43
2:M:610:ARG:HG3	2:M:610:ARG:HH11	1.83	0.43
2:M:625:LEU:HD22	2:M:639:GLN:CB	2.48	0.43
3:D:639:LEU:HD22	3:D:766:ALA:CB	2.48	0.43
3:D:520:LEU:HD12	3:D:521:PRO:CD	2.38	0.43
3:D:537:THR:HG22	9:F:9527:HOH:O	2.17	0.43
2:C:443:THR:OG1	2:C:444:PRO:HD2	2.18	0.43
1:A:42:ARG:CZ	9:A:9609:HOH:O	2.66	0.43
3:D:131:LYS:HG3	3:D:568:ARG:HG2	2.00	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:569:ASN:ND2	5:F:210:LEU:HD22	2.33	0.43
3:D:566:ILE:HG12	5:F:217:ASN:ND2	2.33	0.43
3:D:459:GLU:O	3:D:463:GLN:HG2	2.18	0.43
3:D:210:ARG:HG3	3:D:398:ALA:HB3	2.00	0.43
2:M:1075:ASP:HB2	4:O:31:LEU:HD12	2.00	0.43
2:M:1015:LEU:HD12	5:P:335:ASP:OD1	2.19	0.43
2:C:752:GLY:H	2:C:792:VAL:HB	1.83	0.43
1:B:27:PRO:HG2	1:B:186:LEU:HD12	2.01	0.43
2:M:385:PHE:O	2:M:389:SER:HB3	2.19	0.43
3:D:625:TYR:CD1	3:D:625:TYR:N	2.86	0.43
2:C:1036:GLU:HG3	3:D:707:THR:OG1	2.18	0.43
2:C:174:LEU:CD2	2:C:184:MET:HG3	2.48	0.43
2:M:802:ARG:HH11	2:M:802:ARG:HB3	1.84	0.43
1:A:32:PHE:HD2	9:A:9505:HOH:O	2.01	0.43
3:N:1031:ASN:O	3:N:1035:ILE:HG12	2.18	0.43
2:M:913:GLU:O	2:M:916:GLU:HB3	2.19	0.43
2:C:598:GLU:HB2	2:C:615:TYR:CZ	2.53	0.43
1:A:73:GLU:N	1:A:73:GLU:OE2	2.52	0.43
3:N:1203:LYS:HB2	9:N:9807:HOH:O	2.18	0.43
3:D:591:VAL:HG11	9:D:2452:HOH:O	2.17	0.43
1:A:109:VAL:O	1:A:129:ILE:HB	2.18	0.43
2:M:189:ARG:HG2	2:M:189:ARG:HH11	1.83	0.43
2:C:3:ILE:HA	2:C:900:ARG:O	2.19	0.43
3:D:129:PHE:CD2	3:D:587:ARG:CZ	3.01	0.43
5:P:245:GLN:HA	9:P:3671:HOH:O	2.17	0.43
3:D:615:ARG:HG3	3:D:615:ARG:HH11	1.82	0.43
1:B:84:GLU:HB3	1:B:127:LEU:HD21	2.00	0.43
3:D:178:LEU:CG	3:D:200:ASP:H	2.28	0.43
3:N:1033:GLN:NE2	3:N:1036:ARG:HH11	2.10	0.43
3:D:187:LYS:HG2	9:D:9853:HOH:O	2.19	0.43
3:D:112:ILE:O	3:D:116:LEU:HB2	2.18	0.43
2:C:1115:LEU:CB	3:D:85:VAL:HG13	2.48	0.43
2:M:1008:ARG:HB2	2:M:1027:PHE:HB2	2.00	0.43
2:C:10:ARG:NH1	2:C:11:GLU:H	2.16	0.43
2:C:679:PHE:O	3:D:943:THR:HG22	2.18	0.43
4:E:26:ARG:HA	4:E:29:GLN:OE1	2.18	0.43
2:M:148:PHE:HB2	9:M:9837:HOH:O	2.19	0.43
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.43	0.43
3:D:908:LYS:HA	3:D:911:LEU:HD22	2.01	0.43
5:P:363:GLU:HA	5:P:367:MET:HE2	2.00	0.43
5:P:358:LEU:HD11	5:P:367:MET:SD	2.58	0.43
2:C:525:SER:OG	2:C:528:GLU:HG3	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.34	0.43
3:N:1123:PHE:CD1	3:N:1134:LEU:HA	2.54	0.43
2:M:230:ARG:HB2	9:M:9523:HOH:O	2.19	0.43
2:M:335:THR:CG2	2:M:461:VAL:HG11	2.49	0.43
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.47	0.43
3:D:440:VAL:HG12	3:D:441:ARG:N	2.33	0.43
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.39	0.43
2:M:1086:ARG:NH1	2:M:1112:PHE:HA	2.33	0.43
3:N:1294:VAL:O	3:N:1300:SER:HA	2.19	0.43
5:F:205:ARG:HD2	5:F:251:ILE:HG21	2.01	0.43
1:K:32:PHE:O	1:K:36:LEU:HG	2.19	0.43
2:C:44:ILE:HA	2:C:344:PHE:CE1	2.54	0.43
2:M:301:GLU:O	2:M:305:PRO:HG2	2.19	0.43
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.53	0.43
2:C:722:ILE:HD12	2:C:805:ARG:NH2	2.32	0.43
3:N:96:ALA:CB	9:N:9830:HOH:O	2.66	0.43
3:D:475:LYS:O	3:D:479:GLU:HG2	2.18	0.43
2:C:1036:GLU:O	2:C:1039:ALA:HB3	2.18	0.43
3:D:598:ARG:NH2	5:F:318:GLU:O	2.51	0.43
3:N:1312:LEU:HD21	9:N:2005:HOH:O	2.18	0.43
3:N:992:ILE:O	3:N:995:LEU:HB3	2.19	0.43
1:L:124:ASN:HD22	1:L:127:LEU:HD22	1.83	0.43
3:D:1394:VAL:HB	3:D:1397:LYS:CD	2.47	0.43
5:F:187:LEU:HD21	9:F:9584:HOH:O	2.17	0.43
2:M:26:TYR:CD2	2:M:30:LEU:HD11	2.54	0.43
1:B:23:PHE:O	1:B:196:THR:HA	2.19	0.43
5:P:100:VAL:HG11	9:P:6003:HOH:O	2.17	0.43
2:M:21:ILE:HD12	2:M:21:ILE:N	2.33	0.43
3:D:1114:THR:HG23	3:D:1114:THR:O	2.17	0.43
2:M:243:ARG:HG2	9:M:9816:HOH:O	2.18	0.43
2:C:27:ARG:HD2	9:C:9549:HOH:O	2.18	0.43
3:N:469:ASP:OD1	3:N:471:GLU:HB2	2.19	0.43
2:M:697:ARG:HB2	9:M:9519:HOH:O	2.19	0.43
3:D:746:ALA:HB2	9:D:9498:HOH:O	2.19	0.43
1:K:66:SER:O	1:K:75:VAL:HG23	2.18	0.43
3:N:1144:LEU:HA	3:N:1147:ARG:HG3	2.01	0.43
3:N:436:GLU:HB2	3:N:445:ARG:CB	2.48	0.43
2:C:551:GLU:HG3	2:C:552:HIS:CD2	2.54	0.43
2:C:877:PRO:HG2	3:D:1023:MET:CE	2.48	0.43
2:C:874:LEU:CD2	3:D:1023:MET:SD	3.06	0.43
3:D:1487:VAL:O	4:E:73:LEU:HA	2.18	0.43
2:M:185:LYS:HG2	2:M:190:LYS:HG2	2.01	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:854:PRO:C	2:C:856:GLU:N	2.71	0.43
3:D:130:SER:HB2	9:D:9649:HOH:O	2.18	0.43
3:D:965:GLU:OE1	3:D:965:GLU:HA	2.18	0.43
5:F:194:LEU:N	5:F:194:LEU:HD22	2.33	0.43
2:M:566:THR:O	2:M:566:THR:HG22	2.19	0.43
2:C:890:LEU:HD21	2:C:901:TYR:CD1	2.53	0.43
5:F:209:PHE:HD1	9:F:9815:HOH:O	2.01	0.43
3:D:570:GLU:HB2	5:F:214:GLN:NE2	2.34	0.43
5:F:214:GLN:O	5:F:217:ASN:HB2	2.19	0.43
2:M:911:GLU:OE2	3:N:1062:ARG:NE	2.51	0.43
2:M:431:HIS:HB3	2:M:434:HIS:NE2	2.34	0.43
2:C:602:GLU:HA	2:C:647:GLN:O	2.19	0.43
1:B:27:PRO:C	1:B:28:LEU:HD23	2.39	0.43
3:N:643:GLY:CA	3:N:727:GLN:HB2	2.42	0.43
3:N:693:GLU:HA	4:O:48:MET:CE	2.48	0.43
5:F:274:THR:O	5:F:278:LEU:HG	2.18	0.43
2:C:162:ILE:HD12	2:C:172:ILE:CB	2.49	0.43
1:L:127:LEU:HD12	1:L:128:HIS:H	1.84	0.43
3:D:1299:PHE:H	3:D:1299:PHE:HD2	1.66	0.43
3:N:481:MET:SD	3:N:493:ARG:HA	2.58	0.43
5:P:401:GLU:O	5:P:405:LEU:HD13	2.19	0.43
1:A:227:ASN:HD22	1:A:227:ASN:N	2.16	0.43
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.99	0.43
2:M:189:ARG:HH22	2:M:243:ARG:CG	2.32	0.43
5:P:258:ILE:HG13	9:P:3765:HOH:O	2.18	0.43
1:A:90:LEU:HD21	9:A:9569:HOH:O	2.18	0.43
2:C:100:LEU:HD22	2:C:372:LEU:HD22	2.01	0.43
3:N:422:ALA:O	3:N:427:VAL:HG21	2.18	0.43
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.66	0.43
2:C:552:HIS:CD2	2:C:886:LEU:HD12	2.52	0.43
3:N:1264:GLU:CD	3:N:1425:THR:HB	2.38	0.43
5:P:393:THR:O	5:P:397:ILE:HG13	2.18	0.43
2:C:1005:MET:O	2:C:1005:MET:HG3	2.18	0.43
3:D:1472:ILE:HG22	3:D:1474:ALA:O	2.19	0.43
2:C:199:VAL:HG13	2:C:235:LEU:CD2	2.48	0.43
3:D:637:LEU:HD11	3:D:642:CYS:N	2.34	0.43
2:C:660:ALA:O	2:C:667:ALA:O	2.37	0.43
3:D:884:ARG:HA	9:D:9724:HOH:O	2.18	0.43
1:K:203:GLY:HA2	9:K:4352:HOH:O	2.19	0.43
3:D:55:ASP:HB3	3:D:56:TYR:H	1.57	0.43
3:N:644:LEU:N	9:N:9610:HOH:O	2.50	0.43
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.48	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:2:LYS:HB3	3:D:3:LYS:NZ	2.33	0.43
5:F:316:SER:HB2	5:F:319:THR:OG1	2.19	0.43
1:L:84:GLU:HB2	9:N:9942:HOH:O	2.18	0.43
3:D:1377:LYS:HB3	3:D:1378:TYR:CE1	2.54	0.43
4:O:70:THR:CG2	4:O:72:ARG:HE	2.31	0.43
2:M:1103:ASP:N	2:M:1107:ASN:O	2.52	0.43
3:N:834:THR:HG22	3:N:838:ARG:HD2	2.01	0.43
3:D:781:PRO:HB3	3:D:785:ILE:CG2	2.49	0.43
3:D:33:ASN:O	3:D:36:THR:O	2.36	0.43
5:P:169:GLU:CD	5:P:169:GLU:H	2.22	0.43
1:K:220:GLU:HB2	9:K:5313:HOH:O	2.18	0.43
1:L:145:ASP:O	1:L:171:PHE:HE1	2.02	0.43
3:N:890:VAL:HG11	3:N:922:LEU:HD13	1.99	0.43
2:M:663:ASN:HD22	2:M:663:ASN:HA	1.65	0.43
1:B:88:ARG:NH1	9:B:9562:HOH:O	2.51	0.43
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.83	0.43
3:N:45:PHE:N	9:N:9567:HOH:O	2.51	0.43
3:N:1033:GLN:NE2	3:N:1036:ARG:HD3	2.27	0.43
2:M:1115:LEU:N	2:M:1115:LEU:CD1	2.82	0.43
2:C:689:VAL:O	2:C:869:VAL:HG23	2.19	0.43
3:D:639:LEU:N	3:D:729:HIS:CD2	2.86	0.43
3:N:1264:GLU:OE2	3:N:1425:THR:HB	2.19	0.43
3:D:535:PHE:O	5:F:315:VAL:HG22	2.18	0.43
4:E:29:GLN:CB	4:E:33:HIS:NE2	2.82	0.43
2:C:432:ARG:HG2	2:C:432:ARG:H	1.65	0.43
3:D:1047:LYS:HE3	3:D:1051:GLU:HB2	2.01	0.43
3:D:1066:THR:O	3:D:1070:TYR:HB2	2.19	0.43
2:C:854:PRO:O	2:C:856:GLU:N	2.52	0.43
3:D:641:GLN:HG2	9:D:9590:HOH:O	2.18	0.43
3:D:1264:GLU:OE2	3:D:1424:VAL:HG12	2.19	0.43
3:N:1125:PRO:HB2	3:N:1126:ASP:H	1.64	0.43
3:D:734:GLU:HA	9:D:9487:HOH:O	2.19	0.43
2:C:22:GLN:O	2:C:121:MET:HE1	2.19	0.43
2:M:65:VAL:HB	2:M:101:ILE:HB	2.00	0.43
3:D:1292:VAL:O	3:D:1303:TYR:HB2	2.19	0.43
3:N:693:GLU:O	4:O:48:MET:HE1	2.19	0.43
1:L:58:ILE:HD13	1:L:140:MET:HB3	2.01	0.43
3:N:749:VAL:HA	3:N:750:PRO:HD3	1.86	0.43
5:P:287:THR:O	5:P:289:GLU:N	2.51	0.43
5:P:143:HIS:HB2	5:P:152:ASP:OD1	2.19	0.43
2:M:926:PHE:O	2:M:930:LYS:HG3	2.18	0.43
5:F:313:GLU:HG2	5:F:313:GLU:H	1.47	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:197:SER:O	5:P:200:LYS:HB3	2.18	0.43
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.19	0.43
3:N:1334:GLN:HG3	9:N:2654:HOH:O	2.18	0.43
2:M:85:GLU:HA	9:M:9565:HOH:O	2.18	0.43
2:C:289:THR:HB	9:C:9939:HOH:O	2.19	0.43
2:C:1008:ARG:NH2	2:C:1021:LEU:O	2.50	0.43
3:D:1106:VAL:HG12	3:D:1107:VAL:N	2.34	0.43
2:M:859:PRO:O	2:M:867:VAL:HG22	2.19	0.43
1:A:176:ARG:O	1:A:200:TRP:HE3	2.02	0.43
2:M:227:PHE:O	2:M:230:ARG:HD3	2.19	0.43
2:M:651:LYS:HD2	9:M:2254:HOH:O	2.19	0.43
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.54	0.43
2:M:1004:LYS:O	2:M:1006:HIS:ND1	2.52	0.43
2:M:1021:LEU:CD2	5:P:332:PHE:HA	2.45	0.43
3:D:806:PHE:O	3:D:806:PHE:CD1	2.72	0.43
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.49	0.43
3:D:1274:ILE:H	3:D:1274:ILE:HG13	1.54	0.43
3:D:473:LEU:HD11	3:D:495:ARG:HH12	1.82	0.43
3:D:1314:LYS:HZ3	3:D:1317:ASP:H	1.67	0.43
3:N:452:ILE:HG23	3:N:452:ILE:O	2.19	0.43
2:C:172:ILE:N	2:C:172:ILE:HD12	2.33	0.43
3:D:1239:ARG:NH2	3:D:1254:GLN:HB2	2.34	0.43
2:C:1034:GLU:CA	2:C:1037:VAL:HG23	2.48	0.43
2:M:1109:VAL:HG21	3:N:3:LYS:O	2.19	0.43
3:D:957:PRO:HG2	3:D:1007:VAL:HG12	2.01	0.43
1:L:92:PRO:HB3	9:L:5570:HOH:O	2.19	0.43
1:B:72:LYS:HD3	9:B:9705:HOH:O	2.18	0.43
2:C:357:GLU:HB2	9:C:9624:HOH:O	2.19	0.43
3:N:500:ARG:HG3	3:N:500:ARG:HH11	1.84	0.43
3:D:563:PRO:HB3	9:D:9517:HOH:O	2.18	0.43
9:C:2220:HOH:O	3:D:758:GLU:HB3	2.18	0.43
2:C:327:HIS:O	2:C:330:ASN:HB2	2.19	0.43
3:N:783:ARG:HE	3:N:1029:ARG:HD3	1.84	0.42
2:C:36:PRO:CB	2:C:70:GLU:HG2	2.48	0.42
2:C:674:VAL:O	2:C:989:VAL:HA	2.19	0.42
9:C:9491:HOH:O	3:D:613:ARG:HG3	2.18	0.42
2:C:308:ARG:HH11	2:C:308:ARG:HG2	1.84	0.42
1:B:41:ARG:HG3	1:B:42:ARG:N	2.34	0.42
2:C:979:THR:HG23	2:C:981:GLU:HB2	2.00	0.42
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	2.01	0.42
3:N:1471:LEU:HD12	3:N:1472:ILE:N	2.31	0.42
5:F:373:LYS:HG2	9:F:9532:HOH:O	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:331:ARG:CZ	2:M:427:VAL:HG13	2.49	0.42
2:M:250:ARG:HG2	9:M:2207:HOH:O	2.19	0.42
3:D:474:GLU:CG	3:D:500:ARG:HE	2.32	0.42
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.33	0.42
3:N:1282:ARG:NH1	9:N:2080:HOH:O	2.51	0.42
2:C:1067:TYR:CZ	2:C:1071:ILE:HD11	2.54	0.42
5:P:102:LEU:HD23	5:P:183:ALA:HA	2.01	0.42
3:N:754:PHE:CG	4:O:24:ALA:HB1	2.54	0.42
3:N:989:TYR:HA	9:N:9914:HOH:O	2.19	0.42
2:C:1049:LEU:HG	2:C:1053:LEU:CD1	2.49	0.42
3:N:1493:LYS:HA	3:N:1496:GLU:HG2	1.99	0.42
3:D:647:ARG:HD3	3:D:647:ARG:O	2.19	0.42
5:F:234:LYS:HD2	5:F:236:SER:HB3	2.00	0.42
2:C:441:VAL:O	2:C:559:LEU:HD12	2.18	0.42
3:D:952:ASP:HA	3:D:1062:ARG:HH21	1.83	0.42
3:D:984:THR:CG2	3:D:987:GLU:H	2.31	0.42
2:C:1105:LYS:O	2:C:1107:ASN:N	2.52	0.42
2:C:925:TYR:C	2:C:925:TYR:CD1	2.92	0.42
5:F:392:VAL:HA	9:F:9723:HOH:O	2.18	0.42
2:C:69:LEU:HB2	2:C:97:ARG:HB2	2.01	0.42
3:N:1144:LEU:HD13	3:N:1174:LEU:HD12	2.01	0.42
3:N:777:PRO:HD2	3:N:912:LYS:HG2	2.01	0.42
2:C:676:ILE:HG22	2:C:988:VAL:O	2.19	0.42
2:C:91:GLN:HG2	2:C:119:PRO:HG3	2.01	0.42
1:B:36:LEU:C	1:B:39:PRO:HD2	2.37	0.42
3:N:42:ASP:O	3:N:49:ILE:HD12	2.18	0.42
2:M:166:PRO:HB2	9:M:9802:HOH:O	2.19	0.42
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.19	0.42
3:D:462:GLN:NE2	3:D:513:ILE:HB	2.34	0.42
1:A:143:ARG:HG3	1:A:144:VAL:N	2.32	0.42
3:D:10:ILE:CD1	3:D:1447:LEU:HG	2.49	0.42
5:F:367:MET:HA	5:F:370:LYS:HZ2	1.83	0.42
2:M:984:GLU:OE1	3:N:945:SER:HA	2.19	0.42
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.83	0.42
2:M:1015:LEU:HA	5:P:335:ASP:HB2	2.01	0.42
2:C:1010:THR:HG21	5:F:341:PRO:CG	2.49	0.42
2:M:1043:TYR:HA	3:N:710:ARG:NH2	2.34	0.42
2:C:708:TYR:HE2	2:C:793:PRO:CD	2.30	0.42
3:N:793:THR:O	3:N:879:ARG:NH1	2.52	0.42
1:K:58:ILE:HG21	1:K:68:ILE:CD1	2.48	0.42
3:D:996:TRP:CG	3:D:1056:PRO:HG2	2.54	0.42
2:C:378:LEU:HD11	2:C:382:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1403:LEU:HD23	3:D:1407:LEU:HD22	2.00	0.42
3:N:799:LYS:HE2	3:N:824:ASN:O	2.19	0.42
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.49	0.42
1:K:11:PHE:HD2	1:L:228:PRO:HA	1.84	0.42
5:F:401:GLU:O	5:F:405:LEU:HD13	2.18	0.42
1:A:18:ARG:HD3	1:A:123:MET:HE3	2.00	0.42
3:N:1319:VAL:HG23	3:N:1319:VAL:O	2.19	0.42
5:P:169:GLU:HA	5:P:172:ARG:NH2	2.34	0.42
2:C:715:THR:CG2	2:C:717:LEU:HG	2.49	0.42
2:M:380:ALA:HB2	9:M:2136:HOH:O	2.19	0.42
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.49	0.42
5:F:340:SER:O	5:F:342:VAL:N	2.52	0.42
5:P:240:THR:O	5:P:244:ARG:HG3	2.20	0.42
3:D:426:LYS:HB2	9:D:2623:HOH:O	2.20	0.42
5:P:161:GLN:NE2	9:P:3901:HOH:O	2.52	0.42
3:D:498:VAL:HG12	9:D:9841:HOH:O	2.18	0.42
1:B:150:TYR:HD1	1:B:169:ALA:O	2.02	0.42
1:B:124:ASN:OD1	1:B:127:LEU:HB2	2.19	0.42
2:C:72:ARG:NH1	2:C:72:ARG:HG3	2.32	0.42
3:D:119:SER:HB2	3:D:123:LEU:CB	2.48	0.42
3:D:613:ARG:HA	3:D:613:ARG:HD2	1.90	0.42
2:C:1090:LYS:NZ	3:D:90:MET:HG3	2.34	0.42
3:N:127:LEU:HB3	3:N:132:TYR:O	2.18	0.42
2:C:474:VAL:HG23	2:C:478:VAL:O	2.18	0.42
3:N:1106:VAL:HB	3:N:1108:ARG:HH21	1.84	0.42
3:N:1476:THR:C	3:N:1478:SER:H	2.23	0.42
3:N:734:GLU:OE1	3:N:782:SER:HB2	2.18	0.42
3:D:513:ILE:HG13	9:D:2007:HOH:O	2.18	0.42
5:F:348:SER:OG	5:F:349:LEU:N	2.53	0.42
3:N:951:ILE:HG23	3:N:1062:ARG:NH2	2.35	0.42
2:M:437:ARG:HG2	2:M:467:ILE:HG22	2.02	0.42
3:N:520:LEU:CD1	3:N:521:PRO:HD2	2.49	0.42
3:N:520:LEU:O	3:N:525:ARG:NH1	2.52	0.42
1:L:206:THR:CG2	1:L:209:GLU:H	2.26	0.42
2:M:897:LEU:CD2	2:M:921:ALA:HB2	2.50	0.42
5:F:370:LYS:NZ	5:F:370:LYS:HB3	2.34	0.42
3:D:955:VAL:O	3:D:1039:CYS:HB3	2.20	0.42
5:P:409:LYS:HG3	5:P:410:TYR:N	2.35	0.42
1:L:101:LEU:HD12	1:L:114:PHE:CD1	2.55	0.42
1:B:107:LYS:HB2	9:B:9631:HOH:O	2.19	0.42
4:O:79:LEU:HA	4:O:79:LEU:HD12	1.93	0.42
2:M:802:ARG:HB3	2:M:802:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:O:44:GLU:HG3	9:O:5061:HOH:O	2.20	0.42
5:F:401:GLU:HG3	5:F:405:LEU:HD22	2.01	0.42
4:E:46:PRO:CB	4:E:63:TRP:NE1	2.83	0.42
2:M:690:ILE:CG2	2:M:852:ILE:HG12	2.49	0.42
2:C:663:ASN:HA	2:C:663:ASN:HD22	1.60	0.42
2:M:352:ALA:O	2:M:355:VAL:HG12	2.19	0.42
3:D:167:GLU:HB2	9:D:9804:HOH:O	2.19	0.42
5:F:135:ILE:O	5:F:135:ILE:HD13	2.19	0.42
4:O:59:ASN:ND2	9:O:5180:HOH:O	2.52	0.42
1:K:173:PRO:HB3	1:K:204:SER:HB3	2.01	0.42
2:C:697:ARG:O	2:C:699:PHE:N	2.53	0.42
1:B:86:VAL:O	1:B:86:VAL:HG13	2.17	0.42
2:C:352:ALA:C	2:C:355:VAL:HG12	2.39	0.42
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.19	0.42
2:C:69:LEU:HD12	2:C:97:ARG:HB2	2.01	0.42
3:N:82:LYS:C	3:N:83:SER:HG	2.22	0.42
2:M:1115:LEU:CD1	2:M:1115:LEU:H	2.31	0.42
2:C:11:GLU:HG2	2:C:537:LYS:NZ	2.34	0.42
3:D:765:SER:OG	3:D:766:ALA:N	2.52	0.42
3:D:581:LEU:CD1	3:D:603:LEU:HD12	2.50	0.42
2:M:246:ASP:HB2	9:M:9955:HOH:O	2.19	0.42
2:C:578:VAL:HG13	2:C:671:ASN:OD1	2.19	0.42
3:N:563:PRO:HG2	3:N:566:ILE:HB	2.01	0.42
2:M:1000:MET:HG3	7:M:8002:RPT:H472	2.00	0.42
1:A:26:GLU:HG2	1:A:27:PRO:HG3	2.00	0.42
5:P:361:LEU:HD23	5:P:362:SER:N	2.35	0.42
3:N:765:SER:C	3:N:767:HIS:H	2.22	0.42
3:N:1133:ARG:HB2	9:N:9762:HOH:O	2.18	0.42
2:M:80:GLN:O	2:M:83:CYS:HB2	2.19	0.42
3:D:704:ARG:CD	3:D:705:ALA:H	2.32	0.42
2:C:852:ILE:HD12	2:C:852:ILE:N	2.34	0.42
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.84	0.42
1:A:9:PRO:HB3	1:A:25:LEU:CD2	2.49	0.42
2:M:35:PRO:HD2	2:M:38:LYS:CG	2.49	0.42
3:N:95:LEU:HD11	3:N:517:VAL:CG2	2.50	0.42
3:D:844:ALA:HB3	3:D:848:GLU:OE2	2.18	0.42
2:C:253:ALA:O	2:C:256:TYR:HB2	2.19	0.42
3:N:9:ARG:HG3	3:N:1456:LYS:HG2	2.01	0.42
3:N:1402:ALA:HB1	9:N:2424:HOH:O	2.18	0.42
3:N:1111:ASP:HB2	3:N:1203:LYS:HG3	2.02	0.42
9:N:9815:HOH:O	5:P:140:ARG:HB2	2.19	0.42
1:B:207:PRO:HB2	9:B:9532:HOH:O	2.18	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:808:ARG:HA	9:M:9526:HOH:O	2.19	0.42
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.49	0.42
3:N:93:ILE:HD13	3:N:548:ILE:HD11	2.01	0.42
5:P:122:LEU:HD12	9:P:4063:HOH:O	2.18	0.42
2:M:706:GLU:HB3	2:M:708:TYR:CE1	2.54	0.42
3:D:1467:ILE:HG22	9:D:9522:HOH:O	2.19	0.42
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.49	0.42
5:F:87:GLU:HB3	9:F:9506:HOH:O	2.20	0.42
2:C:270:GLY:O	2:C:271:GLU:HG2	2.18	0.42
1:B:213:GLN:HB2	1:B:213:GLN:HE21	1.58	0.42
4:E:14:ASP:HB2	9:E:9493:HOH:O	2.18	0.42
3:D:914:LEU:HD22	3:D:930:LEU:HD21	2.00	0.42
3:D:757:ALA:CB	4:E:24:ALA:HB2	2.50	0.42
2:M:361:MET:HG2	9:M:2349:HOH:O	2.18	0.42
3:D:1087:ARG:CG	3:D:1234:THR:HA	2.19	0.42
5:P:131:VAL:HG13	5:P:178:ARG:HG2	2.02	0.42
2:C:431:HIS:CD2	2:C:433:THR:HG1	2.38	0.42
2:C:876:VAL:HG11	2:C:885:ILE:HD11	2.02	0.42
2:C:1090:LYS:HZ1	3:D:90:MET:HG3	1.85	0.42
3:N:106:LYS:HB3	3:N:586:ARG:NH1	2.34	0.42
2:C:77:PRO:HD2	2:C:91:GLN:O	2.20	0.42
5:P:88:ILE:HG21	5:P:193:ARG:CZ	2.50	0.42
2:C:1008:ARG:NH2	2:C:1021:LEU:C	2.73	0.42
2:M:444:PRO:HB3	7:M:8002:RPT:H302	2.01	0.42
5:P:411:HIS:HA	5:P:414:ARG:HG3	2.01	0.42
3:N:1122:LEU:O	3:N:1135:ARG:N	2.45	0.42
3:D:704:ARG:NH1	3:D:737:ASN:O	2.53	0.42
3:D:1434:TRP:CZ3	3:D:1455:LYS:HB3	2.54	0.42
2:C:276:LYS:HG2	9:C:2408:HOH:O	2.19	0.42
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.34	0.42
2:C:577:PRO:HB2	2:C:580:MET:HG3	2.01	0.42
1:L:142:VAL:HG23	1:L:142:VAL:O	2.20	0.42
4:O:31:LEU:HD23	4:O:35:PHE:CD1	2.54	0.42
2:C:710:ILE:HD12	2:C:790:LEU:HB2	2.01	0.42
3:D:500:ARG:HG3	9:D:9797:HOH:O	2.20	0.42
3:D:1412:LYS:HG3	9:D:9570:HOH:O	2.18	0.42
2:C:1067:TYR:CE1	2:C:1071:ILE:HD11	2.55	0.42
3:D:1274:ILE:HA	9:D:9544:HOH:O	2.17	0.42
1:B:49:PRO:HB3	1:B:148:VAL:HG13	2.01	0.42
1:B:103:ALA:HB1	1:B:107:LYS:CE	2.49	0.42
1:L:119:ASP:HB3	9:L:4208:HOH:O	2.17	0.42
3:D:1183:ILE:O	3:D:1183:ILE:HD12	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:838:ARG:HD3	3:N:874:GLU:HB3	2.00	0.42
3:N:679:ARG:HB3	9:N:9725:HOH:O	2.19	0.42
2:C:744:ARG:HA	9:C:9908:HOH:O	2.19	0.42
3:N:1047:LYS:HG2	3:N:1053:PHE:CE1	2.55	0.42
2:M:798:GLY:HA2	9:M:2295:HOH:O	2.18	0.42
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	2.00	0.42
2:M:50:GLU:HA	2:M:266:ARG:CZ	2.50	0.42
2:C:636:ALA:C	2:C:637:LEU:HD23	2.40	0.42
3:D:1041:LEU:HD12	3:D:1058:ARG:C	2.40	0.42
1:K:229:GLN:HB2	1:K:229:GLN:HE21	1.68	0.42
3:N:508:ARG:HG3	9:N:2034:HOH:O	2.18	0.42
3:D:102:ILE:HG13	9:D:9521:HOH:O	2.19	0.42
2:C:956:GLY:HA2	9:C:9712:HOH:O	2.19	0.42
2:C:774:LEU:HD21	9:C:9684:HOH:O	2.18	0.42
1:L:68:ILE:HG23	9:L:6170:HOH:O	2.18	0.42
1:B:123:MET:HG2	9:B:9635:HOH:O	2.20	0.42
3:D:715:ALA:HB3	3:D:764:LEU:CA	2.47	0.42
2:C:254:VAL:HG13	2:C:258:TYR:HE1	1.84	0.42
2:M:90:TYR:CE2	2:M:120:LEU:HB2	2.55	0.42
5:P:136:LEU:HD12	5:P:137:GLY:N	2.35	0.42
2:M:393:GLN:HB2	7:M:8002:RPT:O9	2.20	0.42
2:M:405:ARG:HD2	2:M:442:GLU:OE1	2.19	0.42
2:M:689:VAL:O	2:M:869:VAL:HG23	2.20	0.42
2:M:729:LEU:HB3	9:M:2237:HOH:O	2.20	0.42
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.85	0.42
2:M:546:LEU:HD23	2:M:842:ARG:HH11	1.85	0.42
3:N:1283:ILE:N	3:N:1315:ASP:OD1	2.52	0.42
3:N:645:PRO:HA	3:N:721:VAL:O	2.19	0.42
1:A:9:PRO:HG2	1:B:224:TYR:CD2	2.55	0.42
3:D:1344:VAL:HG11	3:D:1421:LEU:HD13	2.01	0.42
1:K:18:ARG:HG2	9:K:4001:HOH:O	2.19	0.42
1:B:140:MET:HG3	9:B:9666:HOH:O	2.19	0.42
2:C:172:ILE:HA	2:C:185:LYS:O	2.18	0.42
2:M:1078:GLU:HA	2:M:1079:PRO:HD3	1.93	0.42
3:D:1040:GLY:O	3:D:1060:SER:HB3	2.20	0.42
1:A:32:PHE:HB2	9:A:9526:HOH:O	2.19	0.42
3:D:501:ALA:HB1	3:D:1453:ALA:CB	2.49	0.42
3:N:964:LEU:HD22	3:N:1058:ARG:HH12	1.81	0.42
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.20	0.42
2:M:86:LYS:CE	2:M:813:VAL:HG12	2.49	0.42
2:C:614:ARG:HG3	2:C:620:LEU:HB3	2.02	0.42
3:N:1394:VAL:HG21	3:N:1397:LYS:HE3	2.02	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:739:ASP:O	3:N:743:ASP:OD2	2.37	0.42
3:N:1341:PRO:HA	3:N:1344:VAL:HG23	2.01	0.42
2:C:658:GLY:N	2:C:661:SER:OG	2.52	0.42
2:C:964:LYS:HB2	9:C:2350:HOH:O	2.19	0.42
5:P:352:GLU:O	5:P:356:LYS:HG3	2.19	0.42
2:M:928:LYS:HD2	9:M:2219:HOH:O	2.18	0.42
2:C:94:LEU:HD21	9:C:9517:HOH:O	2.19	0.42
3:N:1037:GLN:OE1	3:N:1042:ARG:HB3	2.20	0.42
2:C:886:LEU:HD23	2:C:886:LEU:HA	1.92	0.42
3:D:1034:GLN:O	3:D:1037:GLN:HG3	2.19	0.42
3:D:1065:LEU:HD12	3:D:1066:THR:N	2.34	0.42
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.83	0.42
2:M:391:LEU:HD23	2:M:391:LEU:C	2.40	0.42
3:N:187:LYS:HA	3:N:187:LYS:HD3	1.87	0.42
3:D:584:ASN:HD21	3:D:589:ALA:CA	2.30	0.42
2:M:141:HIS:HB2	9:M:9692:HOH:O	2.19	0.42
2:M:455:LEU:HD12	2:M:459:ALA:HB3	2.00	0.42
2:C:137:VAL:O	2:C:391:LEU:HD21	2.20	0.42
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.33	0.42
2:M:838:LYS:CD	2:M:846:LYS:HZ3	2.33	0.42
3:N:1283:ILE:HG23	3:N:1290:LEU:HD21	2.00	0.42
3:N:1315:ASP:HB2	9:N:9493:HOH:O	2.20	0.42
3:D:93:ILE:HD12	3:D:519:VAL:HG22	2.02	0.42
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.49	0.42
2:C:833:LEU:HD11	2:C:849:VAL:HG21	2.02	0.42
3:D:1129:THR:C	3:D:1130:ARG:HD2	2.40	0.42
3:N:154:THR:HG23	3:N:157:GLU:H	1.83	0.42
1:L:116:PRO:HD3	9:L:6307:HOH:O	2.19	0.42
2:M:815:LEU:HD21	2:M:820:ARG:O	2.19	0.42
3:N:135:LEU:HD11	3:N:139:GLY:HA3	2.02	0.42
2:C:798:GLY:HA3	2:C:828:ALA:O	2.20	0.42
2:M:654:LEU:HD11	2:M:657:ASP:HA	2.00	0.42
4:O:43:GLU:H	4:O:43:GLU:CD	2.23	0.42
2:C:841:ASN:C	2:C:841:ASN:HD22	2.23	0.42
3:N:411:THR:HG23	3:N:429:SER:CB	2.49	0.42
3:N:1148:VAL:HG21	3:N:1203:LYS:HA	2.02	0.42
3:D:1463:LYS:HA	3:D:1463:LYS:HD3	1.85	0.42
2:C:559:LEU:HD23	2:C:560:MET:N	2.35	0.42
3:D:169:TYR:N	3:D:170:PRO:HD2	2.35	0.42
3:D:1041:LEU:HD23	3:D:1041:LEU:O	2.19	0.42
1:L:95:GLN:H	1:L:95:GLN:NE2	2.18	0.42
1:B:84:GLU:HG2	1:B:127:LEU:CD1	2.49	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:101:ILE:HG22	2:C:102:HIS:H	1.85	0.42
2:M:537:LYS:HE3	2:M:905:ILE:HD11	2.02	0.42
2:M:290:LEU:HD22	2:M:302:VAL:HG11	2.00	0.42
2:M:1008:ARG:NH1	2:M:1011:GLY:CA	2.82	0.42
3:D:23:TYR:OH	3:D:89:ARG:NE	2.53	0.42
2:M:721:ARG:HG3	2:M:721:ARG:HH11	1.85	0.42
2:M:727:PRO:HB3	9:M:2452:HOH:O	2.19	0.42
3:D:1047:LYS:HA	3:D:1053:PHE:CZ	2.55	0.42
5:F:131:VAL:CG1	5:F:181:GLU:HG3	2.48	0.42
2:M:405:ARG:HH21	2:M:409:ARG:NH2	2.18	0.42
2:M:443:THR:HG23	2:M:449:ILE:HG13	2.02	0.42
2:C:135:VAL:O	2:C:392:SER:HA	2.19	0.42
3:D:209:ARG:CZ	3:D:397:LYS:HG3	2.49	0.42
2:C:343:GLN:HA	9:C:2037:HOH:O	2.19	0.42
1:L:18:ARG:O	1:L:207:PRO:HD3	2.19	0.42
2:M:660:ALA:O	2:M:667:ALA:O	2.38	0.42
2:M:316:GLY:O	2:M:318:PRO:HD3	2.19	0.42
3:N:1459:LEU:HD22	3:N:1465:ASN:HA	2.01	0.42
3:D:1292:VAL:N	3:D:1305:LEU:HD21	2.35	0.42
2:C:1102:LEU:HD23	2:C:1106:ASP:CA	2.50	0.42
2:C:420:ARG:HG2	2:C:421:GLU:N	2.34	0.42
3:D:491:LYS:HB2	9:D:9973:HOH:O	2.19	0.42
2:C:755:LEU:CD2	2:C:825:VAL:HG11	2.47	0.42
2:M:815:LEU:HD11	2:M:819:VAL:HG12	2.02	0.42
2:C:881:ASN:H	2:C:881:ASN:ND2	2.15	0.42
3:N:799:LYS:N	3:N:826:PRO:HG2	2.34	0.42
1:L:103:ALA:O	1:L:138:LEU:HD23	2.19	0.42
4:E:87:LYS:HD2	9:E:9516:HOH:O	2.20	0.42
3:N:115:LEU:CD1	3:N:498:VAL:HG23	2.50	0.42
1:A:7:LYS:HB2	9:A:9499:HOH:O	2.18	0.42
2:M:496:ILE:HD12	2:M:496:ILE:H	1.85	0.42
2:M:380:ALA:HA	2:M:383:ARG:CD	2.50	0.42
5:P:356:LYS:HZ1	5:P:417:LYS:HE2	1.85	0.42
2:M:1032:PHE:HD1	9:M:2368:HOH:O	2.03	0.42
1:L:85:LEU:HD12	1:L:86:VAL:N	2.35	0.42
5:P:276:ARG:HB2	9:P:4488:HOH:O	2.19	0.42
3:D:415:VAL:N	9:D:2009:HOH:O	2.51	0.42
2:C:287:GLY:O	2:C:288:ARG:C	2.58	0.42
3:D:203:ALA:HB2	9:D:9843:HOH:O	2.20	0.42
5:P:175:HIS:O	5:P:179:GLU:HG2	2.20	0.42
3:N:546:ARG:NH2	3:N:550:ARG:HH22	2.17	0.42
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.34	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:75:GLU:O	2:C:93:PRO:HG2	2.19	0.42
3:D:1031:ASN:OD1	3:D:1033:GLN:N	2.53	0.42
5:F:220:LEU:HB2	5:F:243:ILE:HD11	2.01	0.42
3:N:782:SER:N	3:N:785:ILE:HD13	2.34	0.42
2:M:571:LEU:HD12	2:M:701:THR:N	2.34	0.42
2:M:199:VAL:HG13	2:M:235:LEU:CG	2.44	0.42
3:N:6:ARG:HG2	9:N:9676:HOH:O	2.19	0.42
3:D:1011:PHE:HZ	3:D:1039:CYS:SG	2.42	0.42
3:N:1317:ASP:OD2	3:N:1317:ASP:N	2.49	0.42
1:K:32:PHE:HB2	9:K:4346:HOH:O	2.20	0.42
2:M:305:PRO:HA	2:M:308:ARG:HB2	2.01	0.42
1:B:28:LEU:HB2	1:B:193:ASP:HB2	2.01	0.42
3:D:491:LYS:HG3	9:D:9655:HOH:O	2.19	0.42
5:F:326:ASP:HB2	9:F:9660:HOH:O	2.20	0.42
3:N:477:LEU:HD21	3:N:495:ARG:HD3	2.00	0.42
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.48	0.42
2:M:1059:ASP:OD2	2:M:1079:PRO:HA	2.20	0.42
5:P:113:ILE:HG23	5:P:127:ILE:HG22	2.01	0.42
2:C:599:GLU:HG2	2:C:600:ASP:H	1.84	0.42
2:M:103:LYS:HG2	9:M:9553:HOH:O	2.19	0.42
1:K:44:LEU:CD2	1:K:199:ILE:HG12	2.49	0.42
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.19	0.42
2:C:384:GLU:HA	2:C:388:ARG:HH21	1.85	0.42
3:N:828:LYS:HD3	3:N:828:LYS:N	2.34	0.42
2:C:14:PRO:HA	9:C:2347:HOH:O	2.20	0.42
2:M:495:THR:HG21	2:M:524:VAL:HG21	2.01	0.42
2:C:406:HIS:ND1	2:C:406:HIS:O	2.52	0.42
3:N:120:ALA:HB1	9:N:2018:HOH:O	2.20	0.42
1:K:53:VAL:HG21	1:K:82:LEU:HB3	2.01	0.42
2:C:64:LEU:HD13	2:C:359:MET:CG	2.50	0.42
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.50	0.42
2:C:466:PHE:HD2	9:C:9744:HOH:O	2.03	0.42
3:N:1423:GLY:O	3:N:1426:LYS:N	2.53	0.42
2:M:790:LEU:HD23	2:M:791:ARG:N	2.34	0.42
3:D:142:LEU:O	3:D:142:LEU:HD12	2.20	0.42
2:C:218:VAL:HG22	2:C:221:LEU:HD23	2.00	0.42
2:C:207:LEU:HD13	2:C:221:LEU:HD13	2.02	0.42
2:C:258:TYR:O	2:C:290:LEU:HG	2.20	0.42
2:C:289:THR:O	2:C:291:ALA:N	2.53	0.42
2:C:498:GLN:CD	3:D:1068:LEU:HD12	2.41	0.42
2:M:172:ILE:HD12	2:M:172:ILE:N	2.35	0.42
1:B:217:ILE:O	1:B:221:HIS:ND1	2.53	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:28:LYS:HD3	3:N:41:ARG:NH1	2.34	0.42
2:M:276:LYS:HE3	9:M:9970:HOH:O	2.20	0.42
3:D:15:PRO:HG3	9:D:9862:HOH:O	2.20	0.42
2:M:405:ARG:HH21	2:M:409:ARG:HH21	1.68	0.42
1:A:199:ILE:N	9:A:9498:HOH:O	2.52	0.42
3:D:634:GLY:O	3:D:637:LEU:HB3	2.19	0.42
3:D:675:ARG:HH22	5:F:420:ASP:HA	1.84	0.42
2:C:137:VAL:HG22	2:C:391:LEU:O	2.20	0.42
1:L:195:LEU:HD12	1:L:196:THR:N	2.34	0.42
2:C:1056:LYS:CD	3:D:623:VAL:HG13	2.45	0.42
3:N:450:TYR:HA	9:N:9669:HOH:O	2.18	0.42
1:A:110:LYS:HB2	9:A:9528:HOH:O	2.19	0.42
3:D:1176:LYS:HA	3:D:1179:GLU:OE1	2.19	0.42
1:L:165:ILE:HA	1:L:166:PRO:HD3	1.94	0.42
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.82	0.42
3:D:1128:VAL:O	3:D:1129:THR:C	2.58	0.42
5:F:138:SER:HB2	5:F:140:ARG:HG2	2.02	0.42
3:D:1118:ILE:HG21	3:D:1346:ARG:CZ	2.50	0.42
1:B:132:LEU:CD1	1:B:138:LEU:HD22	2.48	0.42
5:P:340:SER:O	5:P:342:VAL:N	2.52	0.42
2:M:1050:GLN:HA	2:M:1053:LEU:HD12	2.02	0.42
2:M:841:ASN:ND2	2:M:841:ASN:C	2.73	0.42
3:N:1441:GLN:NE2	3:N:1442:ASN:HB2	2.35	0.42
3:D:992:ILE:O	3:D:995:LEU:HB3	2.20	0.42
3:D:159:ARG:HB2	3:D:159:ARG:NH1	2.34	0.42
2:C:742:VAL:HG12	2:C:743:VAL:H	1.84	0.42
2:M:47:ALA:O	2:M:50:GLU:HB3	2.20	0.42
2:M:591:SER:HB2	9:M:2161:HOH:O	2.18	0.42
2:M:430:VAL:HG13	3:N:1075:HIS:ND1	2.35	0.42
3:D:681:ARG:NH1	9:D:2081:HOH:O	2.53	0.42
3:D:1238:MET:HE1	3:D:1257:PRO:HG3	2.02	0.41
3:D:1351:GLU:HA	3:D:1354:LYS:HG2	2.01	0.41
3:D:123:LEU:HD12	9:D:9569:HOH:O	2.19	0.41
3:D:765:SER:C	3:D:767:HIS:H	2.24	0.41
3:N:105:VAL:HG12	3:N:106:LYS:HZ1	1.85	0.41
2:C:555:ALA:HB2	3:D:1070:TYR:CE2	2.55	0.41
3:N:734:GLU:HB2	9:N:9534:HOH:O	2.19	0.41
3:D:672:ALA:HB2	9:F:9494:HOH:O	2.18	0.41
5:F:350:LEU:O	5:F:354:LEU:HB2	2.20	0.41
2:C:244:PRO:CD	2:C:245:GLY:N	2.82	0.41
2:M:460:ARG:HD2	2:M:485:TYR:CD2	2.55	0.41
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.19	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1259:VAL:HG22	3:N:1355:VAL:HG21	2.02	0.41
1:K:156:HIS:HD2	1:K:157:GLY:N	2.18	0.41
5:F:370:LYS:NZ	5:F:371:LEU:HG	2.35	0.41
2:C:666:LEU:HG	2:C:668:LEU:HD11	2.02	0.41
2:M:744:ARG:HE	2:M:747:ALA:HB2	1.86	0.41
1:L:156:HIS:HE1	1:L:166:PRO:HB3	1.84	0.41
9:M:9879:HOH:O	5:P:334:PRO:HG2	2.18	0.41
3:N:63:TYR:HE1	3:N:74:GLU:OE1	2.03	0.41
2:M:525:SER:HA	9:M:2109:HOH:O	2.20	0.41
3:N:153:LEU:HD12	3:N:154:THR:N	2.35	0.41
3:N:1066:THR:HG22	3:N:1069:GLU:OE1	2.20	0.41
2:M:1044:GLY:HA3	4:O:17:TYR:CD1	2.55	0.41
4:O:54:LEU:HA	4:O:58:PRO:HG2	2.00	0.41
2:M:877:PRO:HG3	3:N:1023:MET:CE	2.49	0.41
1:B:19:GLU:O	1:B:200:TRP:HA	2.20	0.41
1:A:64:GLU:O	1:A:64:GLU:HG2	2.20	0.41
2:C:713:ARG:HH12	3:D:532:GLY:HA2	1.85	0.41
5:P:392:VAL:HG12	5:P:396:ARG:HG3	2.02	0.41
3:N:653:PHE:CE2	3:N:695:ILE:HG13	2.53	0.41
4:E:84:ARG:NH1	4:E:84:ARG:HB2	2.35	0.41
1:L:188:GLN:N	9:L:5782:HOH:O	2.53	0.41
3:N:605:ASP:HB3	9:N:9598:HOH:O	2.19	0.41
5:F:281:GLU:HB3	9:F:9529:HOH:O	2.20	0.41
3:D:683:ILE:HA	9:D:9956:HOH:O	2.19	0.41
1:A:89:PHE:HZ	1:A:146:ARG:HB2	1.83	0.41
3:D:1090:ASP:HA	3:D:1093:TYR:CB	2.49	0.41
3:D:1465:ASN:ND2	3:D:1470:ARG:NH1	2.66	0.41
1:A:23:PHE:O	1:A:196:THR:HA	2.19	0.41
5:F:82:ARG:HD3	9:F:9734:HOH:O	2.20	0.41
2:M:162:ILE:HG21	2:M:172:ILE:HD13	2.02	0.41
2:C:578:VAL:N	2:C:671:ASN:OD1	2.53	0.41
1:B:34:VAL:HA	9:B:9725:HOH:O	2.19	0.41
1:A:30:ARG:NH1	2:C:938:LYS:HE2	2.35	0.41
1:K:197:LEU:N	1:K:197:LEU:HD23	2.33	0.41
2:M:459:ALA:HB1	2:M:467:ILE:CG2	2.50	0.41
1:K:156:HIS:CD2	1:K:157:GLY:H	2.33	0.41
2:M:54:ILE:HG12	2:M:56:GLU:HG2	2.02	0.41
2:M:1007:ALA:HB2	3:N:648:MET:CG	2.50	0.41
5:P:321:ILE:HG13	5:P:332:PHE:HE1	1.86	0.41
3:D:106:LYS:HD3	3:D:106:LYS:HA	1.81	0.41
3:D:983:LEU:CB	9:D:9513:HOH:O	2.68	0.41
1:K:36:LEU:HB2	1:K:195:LEU:CD2	2.50	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1129:THR:O	3:D:1130:ARG:HD2	2.20	0.41
2:M:474:VAL:HG13	2:M:530:GLU:C	2.40	0.41
3:D:1294:VAL:O	3:D:1300:SER:HA	2.19	0.41
2:M:654:LEU:HD11	2:M:657:ASP:CG	2.40	0.41
3:N:481:MET:HB2	3:N:1388:ARG:HH21	1.84	0.41
1:L:177:VAL:HB	9:L:4703:HOH:O	2.20	0.41
2:C:124:ASP:OD1	2:C:125:GLY:N	2.53	0.41
3:N:1495:ILE:HG12	4:O:80:VAL:HG11	2.00	0.41
1:K:25:LEU:C	1:K:25:LEU:HD23	2.40	0.41
2:M:260:LEU:HG	2:M:261:ILE:CG1	2.49	0.41
1:A:79:ILE:O	1:A:83:LYS:HG3	2.20	0.41
3:N:871:LYS:HB3	3:N:873:LEU:HD11	2.02	0.41
2:M:167:LYS:HE3	2:M:168:ARG:NH2	2.35	0.41
3:D:196:VAL:HG13	3:D:202:VAL:HG13	2.01	0.41
2:M:933:GLY:HA2	9:M:9889:HOH:O	2.19	0.41
2:M:398:THR:O	2:M:399:ASN:HB3	2.20	0.41
5:F:149:GLU:HA	5:F:149:GLU:OE1	2.19	0.41
3:D:953:ASP:N	3:D:953:ASP:OD2	2.54	0.41
3:N:235:ALA:HB1	9:N:9519:HOH:O	2.20	0.41
9:M:9622:HOH:O	3:N:791:TYR:HE2	2.03	0.41
1:K:57:TYR:CZ	1:K:161:ARG:HD2	2.55	0.41
1:L:44:LEU:O	1:L:174:VAL:HG21	2.18	0.41
3:N:1084:THR:HG23	9:N:9666:HOH:O	2.20	0.41
2:C:768:THR:HG23	9:C:9533:HOH:O	2.20	0.41
3:D:396:VAL:HG23	9:D:9579:HOH:O	2.20	0.41
2:C:734:LEU:HA	2:C:737:LEU:HD12	2.02	0.41
2:M:403:SER:OG	2:M:404:LEU:N	2.54	0.41
3:D:389:GLU:HG2	3:D:389:GLU:O	2.20	0.41
3:N:639:LEU:N	3:N:729:HIS:CD2	2.88	0.41
2:M:1008:ARG:HH21	2:M:1029:GLY:H	1.68	0.41
2:C:461:VAL:N	9:C:9546:HOH:O	2.53	0.41
3:D:940:THR:O	3:D:943:THR:HG23	2.20	0.41
3:D:49:ILE:HB	3:D:50:PHE:CE1	2.55	0.41
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.84	0.41
3:D:146:PRO:HA	9:D:9718:HOH:O	2.20	0.41
2:C:194:VAL:HG21	2:C:221:LEU:HA	2.01	0.41
2:M:339:LEU:HD22	2:M:391:LEU:HD13	2.02	0.41
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.87	0.41
2:C:943:VAL:HG11	2:C:973:VAL:HG22	2.03	0.41
3:N:813:LEU:HD12	3:N:814:ALA:N	2.35	0.41
2:C:145:GLY:O	2:C:163:ILE:HG23	2.20	0.41
3:D:1429:LEU:HG	3:D:1441:GLN:OE1	2.19	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:56:TYR:HB3	9:N:2129:HOH:O	2.20	0.41
2:M:208:ALA:HA	2:M:221:LEU:HD21	2.01	0.41
2:M:211:LEU:HD13	2:M:308:ARG:HG3	2.02	0.41
5:P:303:ARG:HG2	9:P:3308:HOH:O	2.20	0.41
1:B:26:GLU:HG3	1:B:194:LYS:HZ2	1.85	0.41
3:N:1061:PHE:HE1	3:N:1065:LEU:HD23	1.85	0.41
3:N:684:LYS:HG2	9:N:2365:HOH:O	2.20	0.41
2:C:193:LEU:HB2	9:C:9507:HOH:O	2.21	0.41
2:C:185:LYS:HG2	2:C:190:LYS:HG2	2.03	0.41
2:M:498:GLN:O	2:M:532:MET:SD	2.79	0.41
3:D:1378:TYR:CD1	3:D:1378:TYR:N	2.87	0.41
2:C:769:PRO:O	2:C:772:ARG:HB3	2.20	0.41
3:N:2:LYS:HB3	3:N:3:LYS:CE	2.50	0.41
3:N:678:GLU:HG3	3:N:679:ARG:HG3	2.03	0.41
3:N:681:ARG:NH1	3:N:681:ARG:HB3	2.36	0.41
1:B:92:PRO:HA	1:B:146:ARG:CZ	2.50	0.41
5:P:364:ARG:NH1	5:P:392:VAL:HG21	2.35	0.41
5:P:163:LEU:HB3	5:P:174:LEU:HD11	2.01	0.41
3:D:468:LEU:HD22	9:D:2533:HOH:O	2.20	0.41
2:C:332:ARG:CZ	2:C:464:LEU:HD11	2.50	0.41
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.37	0.41
2:C:308:ARG:HG3	9:C:9545:HOH:O	2.20	0.41
3:D:1031:ASN:O	3:D:1035:ILE:HG12	2.20	0.41
3:D:786:ILE:HD13	3:D:908:LYS:HB3	2.02	0.41
3:N:30:GLU:HB3	3:N:40:GLU:CB	2.50	0.41
1:K:184:THR:HG23	1:K:192:LEU:CB	2.50	0.41
2:C:1020:PRO:HD2	2:C:1057:SER:OG	2.21	0.41
3:N:1352:ILE:HG22	3:N:1368:ILE:HD13	2.03	0.41
3:D:441:ARG:HG2	3:D:442:ASN:N	2.35	0.41
2:C:145:GLY:C	2:C:163:ILE:HG23	2.40	0.41
2:M:367:LEU:HD23	2:M:371:LYS:NZ	2.31	0.41
3:N:1275:SER:HB3	3:N:1325:LEU:HD11	2.01	0.41
3:D:493:ARG:HE	3:D:1388:ARG:HB3	1.80	0.41
3:N:107:ASP:O	3:N:108:VAL:C	2.59	0.41
2:M:207:LEU:HD22	2:M:221:LEU:HD13	2.02	0.41
2:M:865:THR:HA	2:M:866:PRO:HD3	1.90	0.41
2:C:239:PHE:CE1	2:C:250:ARG:HB3	2.55	0.41
5:F:115:LYS:HG2	9:F:9676:HOH:O	2.20	0.41
2:C:63:GLY:HA3	2:C:103:LYS:CG	2.50	0.41
1:A:128:HIS:NE2	1:A:131:THR:HG23	2.34	0.41
2:C:717:LEU:HD11	9:C:2279:HOH:O	2.20	0.41
1:L:7:LYS:HA	9:L:5355:HOH:O	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:196:VAL:HG13	3:N:202:VAL:HG11	2.02	0.41
2:C:3:ILE:HD13	2:C:900:ARG:HB2	2.02	0.41
3:D:984:THR:HG22	3:D:987:GLU:H	1.84	0.41
3:D:683:ILE:N	3:D:683:ILE:HD12	2.35	0.41
2:C:1019:GLN:HG2	2:C:1019:GLN:H	1.65	0.41
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.20	0.41
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.55	0.41
3:N:501:ALA:HA	3:N:504:ASP:HB2	2.02	0.41
3:D:1481:VAL:HB	9:E:9482:HOH:O	2.20	0.41
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.51	0.41
2:M:545:ASN:HB3	2:M:583:LEU:HD13	2.02	0.41
2:C:413:LEU:CD2	2:C:448:ASN:HD21	2.17	0.41
2:C:1115:LEU:CD1	2:C:1115:LEU:H	2.31	0.41
3:D:525:ARG:HA	3:D:538:SER:CB	2.51	0.41
3:D:89:ARG:HB3	9:D:9497:HOH:O	2.20	0.41
3:N:105:VAL:HG12	3:N:106:LYS:HZ2	1.86	0.41
2:C:208:ALA:HA	2:C:221:LEU:HD21	2.02	0.41
2:M:444:PRO:HD2	2:M:452:ILE:O	2.20	0.41
3:D:459:GLU:HA	9:D:9482:HOH:O	2.20	0.41
2:M:462:ASP:N	9:M:2120:HOH:O	2.54	0.41
2:C:462:ASP:CG	2:C:463:GLU:H	2.24	0.41
1:L:208:LEU:CD2	1:L:208:LEU:H	2.33	0.41
2:M:899:GLN:HG3	2:M:901:TYR:OH	2.20	0.41
3:N:444:VAL:O	3:N:446:VAL:HG23	2.20	0.41
2:C:668:LEU:O	2:C:993:PHE:CZ	2.73	0.41
5:F:256:ARG:HD3	5:F:260:ILE:HB	2.02	0.41
3:N:177:ALA:HB1	3:N:199:LEU:HB3	2.03	0.41
1:L:100:LEU:HD12	1:L:115:LEU:HD21	2.02	0.41
3:D:1319:VAL:HG11	3:D:1325:LEU:HD11	2.02	0.41
3:D:1369:GLU:HA	3:D:1372:VAL:HG12	2.02	0.41
3:D:1379:VAL:HA	3:D:1420:LEU:CB	2.50	0.41
5:F:226:LYS:HB2	5:F:238:TYR:OH	2.20	0.41
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	2.35	0.41
5:P:290:GLU:CD	5:P:290:GLU:H	2.23	0.41
2:M:742:VAL:HG12	2:M:743:VAL:H	1.85	0.41
3:N:1263:PHE:HA	3:N:1375:MET:HE1	2.02	0.41
1:K:44:LEU:HD21	1:K:199:ILE:HG12	2.03	0.41
3:D:591:VAL:HG22	9:D:9851:HOH:O	2.18	0.41
5:F:119:ILE:HG12	9:F:9493:HOH:O	2.20	0.41
2:C:634:GLY:HA3	9:C:2295:HOH:O	2.20	0.41
3:D:1098:LEU:N	3:D:1098:LEU:HD12	2.35	0.41
3:N:1310:ARG:HB3	9:N:9491:HOH:O	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:59:GLU:HG3	1:K:139:ASN:HB3	2.03	0.41
1:K:211:LEU:O	1:K:214:ALA:HB3	2.20	0.41
1:K:212:ASN:O	1:K:215:VAL:HG22	2.21	0.41
1:B:123:MET:HE3	1:B:204:SER:HA	2.02	0.41
2:M:872:ASN:OD1	2:M:873:PRO:HD2	2.20	0.41
2:C:107:LEU:HB3	9:C:2236:HOH:O	2.19	0.41
5:P:151:LEU:HB2	5:P:155:THR:H	1.86	0.41
3:N:603:LEU:O	3:N:607:LEU:HD12	2.20	0.41
3:D:168:THR:O	3:D:393:ILE:N	2.52	0.41
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.50	0.41
2:C:435:TYR:C	2:C:437:ARG:H	2.24	0.41
2:C:684:PHE:HA	3:D:784:ASP:OD1	2.21	0.41
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.29	0.41
3:D:614:PHE:HB3	9:D:9835:HOH:O	2.20	0.41
2:M:172:ILE:HD12	2:M:172:ILE:H	1.84	0.41
3:D:400:VAL:HG21	3:D:441:ARG:NH1	2.28	0.41
1:L:23:PHE:HZ	1:L:207:PRO:HB2	1.86	0.41
2:C:279:GLU:HG3	2:C:280:LYS:N	2.34	0.41
2:M:367:LEU:HA	2:M:371:LYS:HB2	2.03	0.41
2:M:374:ASN:ND2	2:M:377:PRO:HD3	2.36	0.41
3:D:1303:TYR:CD1	3:D:1325:LEU:HD23	2.56	0.41
2:M:512:ARG:HA	9:M:2109:HOH:O	2.20	0.41
1:K:28:LEU:HD11	1:K:36:LEU:HD12	2.02	0.41
3:N:943:THR:HA	9:N:9516:HOH:O	2.20	0.41
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.85	0.41
3:D:578:VAL:O	3:D:582:LEU:HD12	2.21	0.41
5:F:108:GLU:OE1	5:F:108:GLU:HA	2.20	0.41
2:C:630:ARG:NH2	2:C:707:ARG:HB2	2.36	0.41
2:C:92:ALA:HB2	9:C:2288:HOH:O	2.21	0.41
4:O:72:ARG:N	9:O:3347:HOH:O	2.53	0.41
2:C:813:VAL:HG12	9:C:9512:HOH:O	2.21	0.41
2:C:937:ASP:HB2	2:C:940:GLU:H	1.86	0.41
2:M:1032:PHE:CD2	2:M:1052:MET:HG2	2.56	0.41
2:C:1105:LYS:HD2	2:C:1107:ASN:HD21	1.86	0.41
1:K:208:LEU:O	1:K:211:LEU:HB3	2.21	0.41
1:A:121:GLU:HB3	9:A:9529:HOH:O	2.20	0.41
3:N:176:ASP:HB2	9:N:2270:HOH:O	2.19	0.41
2:M:627:ARG:HA	9:M:9521:HOH:O	2.19	0.41
1:B:81:ASN:ND2	1:B:128:HIS:O	2.54	0.41
2:C:66:LEU:HD13	2:C:100:LEU:HB2	2.03	0.41
2:C:48:PHE:HE2	9:C:9738:HOH:O	2.03	0.41
2:M:290:LEU:H	2:M:290:LEU:HD23	1.86	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:639:LEU:HD12	3:N:729:HIS:NE2	2.35	0.41
2:C:1083:GLU:O	2:C:1087:VAL:HB	2.21	0.41
2:C:504:GLU:HB2	2:C:507:ARG:HB2	2.01	0.41
2:C:945:ARG:O	2:C:948:GLU:HG3	2.20	0.41
1:A:30:ARG:CZ	1:A:191:ASP:HB2	2.50	0.41
5:P:370:LYS:NZ	5:P:370:LYS:HB3	2.36	0.41
2:M:707:ARG:HH11	2:M:824:ARG:CG	2.33	0.41
2:M:775:ARG:NH1	5:P:423:ASP:O	2.54	0.41
5:F:409:LYS:HG3	5:F:410:TYR:N	2.35	0.41
2:C:710:ILE:HD11	2:C:758:ARG:HH21	1.84	0.41
1:L:176:ARG:NH2	3:N:884:ARG:NE	2.69	0.41
2:M:31:GLN:O	2:M:34:VAL:HG23	2.21	0.41
2:M:22:GLN:O	2:M:121:MET:HE1	2.21	0.41
1:B:156:HIS:CE1	1:B:158:ILE:H	2.39	0.41
3:D:95:LEU:CD1	3:D:517:VAL:HG23	2.51	0.41
1:L:29:GLU:OE2	1:L:189:ARG:NH2	2.53	0.41
5:F:278:LEU:HB3	5:F:286:PRO:HG2	2.03	0.41
3:N:462:GLN:HE21	3:N:513:ILE:CD1	2.34	0.41
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.50	0.41
3:N:1243:THR:HG1	3:N:1253:THR:HB	1.85	0.41
2:C:399:ASN:ND2	2:C:399:ASN:N	2.66	0.41
5:F:273:ARG:HG2	5:F:276:ARG:NH1	2.35	0.41
3:N:838:ARG:HH11	3:N:874:GLU:HB3	1.84	0.41
1:A:72:LYS:HA	2:C:608:GLY:CA	2.50	0.41
3:D:826:PRO:HB3	3:D:828:LYS:HZ3	1.85	0.41
3:N:956:ILE:HD13	3:N:960:LYS:NZ	2.36	0.41
2:C:509:ALA:HB1	9:C:9815:HOH:O	2.21	0.41
3:N:92:HIS:HA	3:N:519:VAL:HG23	2.02	0.41
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.80	0.41
2:M:1025:ALA:HA	9:M:9518:HOH:O	2.20	0.41
3:D:1348:LEU:O	3:D:1349:VAL:C	2.58	0.41
3:D:1362:LYS:HA	3:D:1362:LYS:HD3	1.93	0.41
1:K:185:ARG:HD3	9:K:4032:HOH:O	2.21	0.41
1:K:127:LEU:HD12	1:K:128:HIS:N	2.35	0.41
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.50	0.41
2:C:355:VAL:HB	9:C:9756:HOH:O	2.20	0.41
2:M:18:LEU:HD22	2:M:590:ASP:HB2	2.02	0.41
3:N:694:VAL:HG22	9:N:2371:HOH:O	2.20	0.41
2:C:889:HIS:CD2	2:C:970:GLY:HA3	2.56	0.41
3:D:553:ARG:HD3	9:F:9503:HOH:O	2.20	0.41
5:F:215:GLU:HG3	5:F:250:ALA:CB	2.51	0.41
1:B:45:LEU:HD21	1:B:177:VAL:HG13	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1008:ARG:HH21	2:C:1028:GLY:CA	2.32	0.41
2:M:443:THR:OG1	2:M:444:PRO:HD2	2.19	0.41
5:P:370:LYS:HZ2	5:P:370:LYS:HB3	1.85	0.41
3:D:760:ARG:NH1	4:E:59:ASN:OD1	2.53	0.41
1:K:227:ASN:ND2	1:K:227:ASN:H	2.07	0.41
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.36	0.41
2:C:347:GLY:HA2	9:C:9903:HOH:O	2.19	0.41
3:N:400:VAL:HA	3:N:442:ASN:O	2.20	0.41
2:M:195:LEU:O	2:M:199:VAL:HG23	2.20	0.41
2:M:374:ASN:HD21	2:M:377:PRO:HD3	1.85	0.41
5:P:328:PHE:HA	5:P:328:PHE:HD2	1.77	0.41
2:C:376:ARG:HH22	5:F:285:GLU:CB	2.33	0.41
3:N:534:ARG:HD2	5:P:315:VAL:CG2	2.51	0.41
3:D:101:HIS:CE1	3:D:582:LEU:HD13	2.56	0.41
3:D:847:ASP:HA	3:D:850:LEU:HD13	2.03	0.41
3:D:482:LYS:HB3	3:D:483:HIS:ND1	2.36	0.41
2:C:881:ASN:HD22	2:C:881:ASN:N	2.07	0.41
1:A:150:TYR:CD1	2:C:696:LYS:HG2	2.55	0.41
3:D:800:LYS:HG2	9:D:2552:HOH:O	2.20	0.41
3:D:1046:GLN:HG2	3:D:1052:THR:HG22	2.03	0.41
2:C:759:THR:HA	9:C:9930:HOH:O	2.21	0.41
3:D:107:ASP:O	3:D:108:VAL:C	2.59	0.41
2:C:472:ARG:HD2	2:C:480:THR:O	2.21	0.41
1:B:22:GLU:HG2	1:B:198:ARG:CG	2.51	0.41
3:N:1053:PHE:HD2	9:N:9968:HOH:O	2.02	0.41
5:P:309:LYS:HA	5:P:312:GLN:NE2	2.35	0.41
1:B:106:PRO:HG3	1:B:134:GLU:CD	2.40	0.41
1:B:44:LEU:HD23	1:B:48:ILE:HD12	2.03	0.41
1:K:86:VAL:HG12	1:K:124:ASN:HB2	2.02	0.41
2:C:438:ILE:HG22	2:C:439:CYS:O	2.21	0.41
2:M:1064:ASN:ND2	5:P:344:ALA:HB2	2.36	0.41
5:F:324:GLU:HA	9:F:9742:HOH:O	2.21	0.41
1:B:165:ILE:HG12	9:B:9537:HOH:O	2.20	0.41
1:K:133:GLU:OE2	2:M:605:LYS:HB3	2.21	0.41
3:N:178:LEU:HD11	9:N:9572:HOH:O	2.21	0.41
9:N:2443:HOH:O	5:P:337:HIS:HA	2.20	0.41
5:P:337:HIS:H	5:P:337:HIS:HD2	1.68	0.41
3:D:185:VAL:CG1	3:D:191:LEU:HD21	2.51	0.41
4:E:26:ARG:NH1	4:E:29:GLN:NE2	2.68	0.41
2:C:127:PHE:HE1	2:C:386:PHE:HE2	1.68	0.41
2:C:129:ILE:HB	2:C:134:ARG:HG3	2.01	0.41
2:C:170:PRO:HG2	2:C:258:TYR:CD2	2.56	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1047:LYS:HD2	3:D:1051:GLU:OE1	2.21	0.41
2:C:862:PRO:CG	2:C:975:TYR:HE1	2.34	0.41
2:M:172:ILE:HA	2:M:185:LYS:O	2.20	0.41
5:F:79:ASP:HB3	5:F:80:PRO:HD2	2.02	0.41
1:A:184:THR:HG23	1:A:192:LEU:CB	2.49	0.41
3:N:1106:VAL:HA	9:N:9633:HOH:O	2.21	0.41
3:N:1462:LEU:CD2	3:N:1473:PRO:HD2	2.51	0.41
2:C:597:ALA:O	2:C:652:GLY:N	2.54	0.41
3:D:399:ARG:HG3	9:D:9991:HOH:O	2.21	0.41
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.56	0.41
2:M:911:GLU:O	2:M:914:ILE:HG22	2.21	0.41
3:D:653:PHE:CD1	3:D:653:PHE:N	2.86	0.41
3:D:704:ARG:CB	3:D:736:PHE:HB3	2.51	0.41
3:D:441:ARG:O	3:D:443:VAL:HG23	2.21	0.41
3:N:44:LEU:HG	9:N:9808:HOH:O	2.19	0.41
2:C:267:TYR:HB2	2:C:272:ALA:CB	2.51	0.41
2:M:669:GLY:C	2:M:670:GLN:HG2	2.41	0.41
3:N:31:THR:HG21	3:N:527:MET:CE	2.51	0.41
3:N:400:VAL:C	3:N:402:PRO:HD3	2.42	0.41
5:F:362:SER:C	5:F:364:ARG:H	2.23	0.41
2:M:64:LEU:HD22	2:M:359:MET:SD	2.61	0.41
3:D:890:VAL:HG13	3:D:926:LYS:HD3	2.03	0.41
3:D:1438:ALA:N	3:D:1446:VAL:HG11	2.35	0.41
3:N:1282:ARG:HA	3:N:1315:ASP:OD1	2.21	0.41
3:D:1221:VAL:O	3:D:1222:GLY:C	2.58	0.41
3:D:806:PHE:O	3:D:807:ALA:C	2.59	0.41
3:D:1325:LEU:C	9:D:2444:HOH:O	2.58	0.41
3:D:1171:VAL:HG12	3:D:1171:VAL:O	2.21	0.41
5:P:409:LYS:HE3	5:P:410:TYR:HD1	1.85	0.41
3:D:1376:MET:HE3	3:D:1421:LEU:HA	2.02	0.41
2:M:492:ASP:HB3	2:M:518:LYS:HG2	2.02	0.41
2:C:881:ASN:N	2:C:881:ASN:ND2	2.69	0.41
1:B:103:ALA:HB1	1:B:107:LYS:CD	2.51	0.41
2:C:378:LEU:O	2:C:382:ILE:HG13	2.21	0.41
2:C:176:VAL:O	2:C:178:PRO:HD3	2.20	0.41
2:C:29:ALA:HB2	2:C:337:GLY:HA2	2.01	0.41
3:N:1154:GLU:HG3	3:N:1159:ARG:HG2	2.02	0.41
3:D:1060:SER:O	3:D:1063:GLU:O	2.39	0.41
3:D:1299:PHE:N	3:D:1299:PHE:HD2	2.19	0.41
3:N:179:VAL:HG23	9:N:9797:HOH:O	2.21	0.41
3:N:115:LEU:CD1	3:N:499:VAL:HG22	2.51	0.41
1:A:156:HIS:HE1	1:A:167:VAL:O	2.03	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:798:GLY:HA3	2:M:828:ALA:O	2.20	0.41
3:D:967:ALA:HB2	9:D:2079:HOH:O	2.21	0.41
1:B:12:THR:OG1	1:B:24:VAL:HB	2.21	0.41
3:D:156:GLU:O	3:D:159:ARG:HB3	2.21	0.41
2:C:593:ALA:HB1	2:C:658:GLY:HA3	2.02	0.41
2:C:242:LEU:HD23	2:C:242:LEU:HA	1.92	0.41
1:B:219:ARG:HD3	9:B:9524:HOH:O	2.20	0.41
1:K:30:ARG:HG2	9:K:4745:HOH:O	2.21	0.41
2:M:132:ALA:HA	9:M:2436:HOH:O	2.20	0.41
2:M:808:ARG:NH1	2:M:808:ARG:HG2	2.35	0.41
2:M:352:ALA:C	2:M:355:VAL:HG12	2.41	0.41
3:D:818:ARG:HD2	9:D:9809:HOH:O	2.20	0.41
2:C:745:ILE:HD12	9:C:2126:HOH:O	2.21	0.41
3:D:1156:LEU:HD21	3:D:1177:ALA:HA	2.02	0.41
1:K:102:LYS:HD2	9:K:3447:HOH:O	2.19	0.41
5:F:74:LYS:HD3	5:F:74:LYS:HA	1.95	0.41
2:C:471:TYR:HD2	2:C:533:ASP:HA	1.85	0.41
3:N:827:ILE:HB	3:N:828:LYS:HD3	2.02	0.41
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	2.02	0.41
5:F:227:PHE:CZ	5:F:229:TYR:HA	2.56	0.41
3:D:1480:PHE:HE2	9:E:9493:HOH:O	2.04	0.41
3:D:1143:GLY:HA2	9:D:9689:HOH:O	2.20	0.41
3:N:223:LEU:N	3:N:365:ASP:O	2.50	0.41
3:D:53:ILE:O	3:D:53:ILE:HG12	2.20	0.41
3:N:413:ASP:OD1	3:N:419:ASP:HA	2.21	0.41
2:M:917:LEU:HD12	9:M:2374:HOH:O	2.19	0.41
4:E:90:GLU:HB3	9:E:9562:HOH:O	2.20	0.41
2:M:854:PRO:O	2:M:856:GLU:N	2.54	0.41
1:A:135:GLY:HA2	9:A:9515:HOH:O	2.20	0.41
3:D:60:CYS:HA	9:D:2600:HOH:O	2.20	0.41
3:D:783:ARG:NE	3:D:1029:ARG:CZ	2.84	0.41
5:P:151:LEU:O	5:P:155:THR:HB	2.21	0.41
3:D:393:ILE:N	3:D:393:ILE:HD12	2.31	0.41
3:N:1425:THR:CG2	3:N:1426:LYS:H	2.33	0.41
3:D:606:ILE:O	3:D:613:ARG:HB2	2.21	0.41
5:F:317:LEU:HD23	5:F:317:LEU:O	2.21	0.41
3:N:125:GLN:NE2	3:N:587:ARG:HH21	2.16	0.41
3:D:27:GLU:HG3	3:D:27:GLU:O	2.20	0.41
2:C:91:GLN:HA	2:C:119:PRO:HA	2.03	0.41
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.48	0.41
5:P:218:GLN:HA	5:P:221:ILE:CD1	2.52	0.41
3:D:629:SER:HB3	3:D:726:ILE:HD11	2.03	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:660:ALA:O	2:C:667:ALA:HB3	2.21	0.41
2:M:78:PHE:CB	2:M:88:LEU:HD21	2.49	0.41
9:M:9830:HOH:O	5:P:354:LEU:HD12	2.21	0.41
5:F:408:LEU:HA	5:F:411:HIS:ND1	2.36	0.41
1:K:19:GLU:O	1:K:200:TRP:HA	2.20	0.41
3:N:965:GLU:HB2	9:N:2437:HOH:O	2.19	0.41
3:D:645:PRO:HB3	3:D:723:GLY:O	2.21	0.41
2:M:512:ARG:HD3	2:M:523:ILE:HD11	2.01	0.41
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.50	0.41
2:C:722:ILE:HG23	2:C:805:ARG:NH2	2.36	0.41
2:M:136:ILE:CG2	2:M:336:VAL:HG13	2.46	0.41
2:C:1039:ALA:HB2	3:D:707:THR:HG21	2.02	0.41
5:F:399:GLN:HB3	9:F:9591:HOH:O	2.19	0.41
2:C:605:LYS:HG2	2:C:612:VAL:HB	2.03	0.41
2:M:739:GLU:HG3	9:M:9499:HOH:O	2.21	0.41
5:F:115:LYS:HD3	5:F:118:GLU:OE2	2.21	0.41
4:O:73:LEU:N	9:O:3347:HOH:O	2.54	0.41
3:N:1503:VAL:HG13	9:N:2327:HOH:O	2.20	0.41
2:C:601:GLY:HA3	2:C:615:TYR:HA	2.03	0.41
2:C:585:GLU:HB2	9:C:2332:HOH:O	2.21	0.41
2:C:958:THR:CG2	2:C:961:GLU:HG2	2.50	0.41
2:C:51:THR:O	2:C:51:THR:HG22	2.21	0.41
3:D:29:PRO:HG3	3:D:549:ASN:HD21	1.86	0.41
5:F:244:ARG:HB2	5:F:244:ARG:HH11	1.86	0.41
3:D:683:ILE:H	3:D:683:ILE:HD12	1.86	0.41
1:K:185:ARG:O	1:K:185:ARG:HD2	2.21	0.41
2:C:878:SER:HB3	3:D:1029:ARG:NH1	2.35	0.41
4:O:42:PRO:HD3	9:O:4549:HOH:O	2.19	0.41
3:N:1335:LEU:HD21	3:N:1343:ALA:CB	2.51	0.41
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.21	0.40
3:N:53:ILE:HB	3:N:86:ARG:HD3	2.02	0.40
3:N:550:ARG:NE	9:N:9529:HOH:O	2.54	0.40
3:N:731:LEU:CD1	3:N:931:LEU:HB3	2.51	0.40
2:C:333:ILE:HD11	2:C:467:ILE:HG13	2.02	0.40
2:C:479:VAL:HG23	2:C:506:ASN:CA	2.51	0.40
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.57	0.40
3:N:40:GLU:OE1	3:N:40:GLU:HA	2.21	0.40
2:M:276:LYS:CD	2:M:276:LYS:H	2.32	0.40
3:N:134:VAL:HG12	3:N:152:LEU:HB3	2.03	0.40
2:C:396:ASP:O	2:C:403:SER:N	2.54	0.40
3:N:706:PRO:HA	9:N:9787:HOH:O	2.21	0.40
2:M:418:LEU:HD12	2:M:418:LEU:H	1.86	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:601:GLY:HA3	2:M:615:TYR:HA	2.02	0.40
3:D:836:VAL:HA	3:D:839:LEU:HB2	2.04	0.40
3:N:881:LEU:HD12	9:N:9868:HOH:O	2.20	0.40
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.84	0.40
1:B:89:PHE:HD1	1:B:120:VAL:HG13	1.85	0.40
1:B:191:ASP:OD1	1:B:191:ASP:N	2.55	0.40
2:C:1102:LEU:HD23	2:C:1106:ASP:C	2.42	0.40
2:C:1002:GLU:HA	2:C:1006:HIS:CE1	2.56	0.40
3:N:1065:LEU:HD12	3:N:1066:THR:N	2.37	0.40
4:E:36:LYS:HD3	4:E:36:LYS:HA	1.82	0.40
3:N:1128:VAL:O	3:N:1129:THR:C	2.58	0.40
2:C:252:LYS:HZ3	2:C:296:GLY:HA3	1.85	0.40
2:M:900:ARG:NE	9:M:2073:HOH:O	2.54	0.40
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.55	0.40
2:M:1049:LEU:O	2:M:1053:LEU:HG	2.21	0.40
3:N:1346:ARG:HG2	9:N:9698:HOH:O	2.21	0.40
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.21	0.40
2:M:1105:LYS:O	2:M:1107:ASN:N	2.54	0.40
2:M:654:LEU:HD21	2:M:657:ASP:OD2	2.20	0.40
3:N:838:ARG:HG2	3:N:865:THR:OG1	2.22	0.40
1:L:110:LYS:NZ	1:L:110:LYS:HB2	2.36	0.40
3:D:1393:GLN:CB	3:D:1398:TRP:HE1	2.33	0.40
3:D:1339:LYS:HB3	3:D:1343:ALA:CB	2.51	0.40
2:M:63:GLY:HA3	2:M:103:LYS:CG	2.51	0.40
3:D:769:LEU:HD12	3:D:769:LEU:N	2.36	0.40
3:N:980:MET:HB3	3:N:982:PHE:CE1	2.56	0.40
3:D:912:LYS:HE3	9:D:2356:HOH:O	2.21	0.40
1:L:86:VAL:O	1:L:86:VAL:HG13	2.20	0.40
2:M:5:ARG:H	2:M:5:ARG:HG3	1.77	0.40
3:D:34:TYR:O	3:D:37:LEU:HD23	2.21	0.40
5:F:336:GLU:HB2	9:F:9817:HOH:O	2.21	0.40
5:F:105:LYS:HE2	5:F:179:GLU:O	2.21	0.40
1:K:46:SER:HA	9:K:5849:HOH:O	2.21	0.40
2:C:307:LEU:HG	2:C:311:PHE:CE2	2.56	0.40
3:N:702:LEU:HD23	3:N:716:PHE:CD1	2.55	0.40
5:P:147:LEU:HG	9:P:3632:HOH:O	2.20	0.40
3:N:1362:LYS:HB3	9:N:9810:HOH:O	2.21	0.40
3:D:1087:ARG:NH1	3:D:1234:THR:O	2.54	0.40
2:C:70:GLU:N	9:C:9625:HOH:O	2.53	0.40
3:N:927:THR:O	3:N:931:LEU:HG	2.21	0.40
3:D:603:LEU:HA	3:D:606:ILE:HG13	2.03	0.40
2:C:379:GLU:HG3	9:C:2275:HOH:O	2.20	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1047:LYS:HD2	3:D:1051:GLU:CD	2.42	0.40
2:M:129:ILE:HD12	2:M:129:ILE:N	2.36	0.40
2:M:408:ARG:O	2:M:454:SER:HB2	2.21	0.40
3:N:1379:VAL:HA	3:N:1420:LEU:CB	2.50	0.40
1:A:179:PHE:HD2	9:A:9593:HOH:O	2.03	0.40
2:M:771:GLU:HB2	9:P:5420:HOH:O	2.21	0.40
2:C:267:TYR:N	2:C:267:TYR:CD2	2.89	0.40
2:C:265:ARG:HD3	2:C:267:TYR:HB3	2.04	0.40
3:N:1295:GLU:HB2	3:N:1300:SER:OG	2.22	0.40
3:N:849:ALA:O	3:N:853:VAL:HG23	2.21	0.40
2:C:1096:ALA:HB2	3:D:101:HIS:CD2	2.56	0.40
3:N:809:PRO:O	3:N:812:ALA:HB3	2.21	0.40
3:D:1432:LYS:HZ3	3:D:1460:ILE:HG13	1.83	0.40
2:C:605:LYS:CG	2:C:612:VAL:HB	2.52	0.40
1:A:150:TYR:HD1	2:C:696:LYS:HG2	1.87	0.40
1:B:101:LEU:HB2	1:B:114:PHE:CE2	2.56	0.40
3:D:1254:GLN:OE1	3:D:1254:GLN:HA	2.21	0.40
3:N:502:PHE:CD1	3:N:509:PRO:HB3	2.56	0.40
1:K:34:VAL:HG23	9:K:3503:HOH:O	2.20	0.40
3:D:31:THR:HB	3:D:32:ILE:H	1.63	0.40
5:F:421:PHE:C	5:F:423:ASP:N	2.73	0.40
3:N:463:GLN:HE21	3:N:463:GLN:HA	1.86	0.40
1:L:105:GLY:O	1:L:132:LEU:HB3	2.21	0.40
2:M:547:ILE:HA	2:M:548:PRO:HD3	1.90	0.40
3:N:471:GLU:HG2	9:N:2578:HOH:O	2.21	0.40
2:M:942:GLU:O	2:M:945:ARG:HB3	2.21	0.40
2:C:2:GLU:HG2	9:C:9602:HOH:O	2.21	0.40
2:C:1045:ALA:HB1	2:C:1048:THR:HB	2.03	0.40
2:C:1068:GLU:HG2	9:C:2111:HOH:O	2.21	0.40
3:N:1043:GLY:N	9:N:9654:HOH:O	2.53	0.40
5:P:155:THR:HG22	5:P:156:VAL:N	2.35	0.40
2:C:1115:LEU:HD23	3:D:85:VAL:HG13	2.03	0.40
2:C:677:MET:CE	2:C:983:ILE:HD13	2.51	0.40
3:D:1026:SER:C	3:D:1028:ALA:N	2.75	0.40
3:N:1264:GLU:HG2	3:N:1266:ARG:CZ	2.51	0.40
2:C:258:TYR:HD2	9:C:2316:HOH:O	2.04	0.40
2:M:163:ILE:HB	2:M:171:TRP:CZ2	2.56	0.40
2:M:1002:GLU:HG3	2:M:1002:GLU:H	1.57	0.40
3:D:671:LYS:N	9:D:9547:HOH:O	2.46	0.40
3:D:1097:LYS:NZ	9:D:9536:HOH:O	2.53	0.40
3:D:1264:GLU:HG2	3:D:1266:ARG:HH21	1.86	0.40
2:C:1055:LEU:CD2	2:C:1079:PRO:HG3	2.51	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:929:ARG:HB3	9:D:2176:HOH:O	2.21	0.40
3:N:87:ARG:HD2	3:N:88:TYR:HE2	1.86	0.40
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.49	0.40
2:M:109:LYS:HE2	9:M:2096:HOH:O	2.21	0.40
2:C:1039:ALA:HB2	3:D:707:THR:CG2	2.51	0.40
2:C:732:ALA:HB2	9:C:9752:HOH:O	2.21	0.40
3:D:770:LEU:HB2	3:D:1210:SER:O	2.21	0.40
3:D:1432:LYS:CG	3:D:1433:SER:N	2.83	0.40
2:M:200:LEU:HD22	2:M:300:ASP:OD1	2.21	0.40
3:N:866:VAL:HG12	3:N:867:ARG:N	2.37	0.40
3:N:1192:LEU:HD13	3:N:1345:GLU:HB3	2.03	0.40
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	2.02	0.40
2:M:642:ARG:HG2	2:M:642:ARG:HH11	1.86	0.40
3:N:8:VAL:HG12	3:N:9:ARG:N	2.37	0.40
1:K:152:PRO:HB3	2:M:832:LYS:NZ	2.36	0.40
2:M:693:GLU:HA	2:M:693:GLU:OE1	2.21	0.40
1:K:106:PRO:HB3	9:K:3754:HOH:O	2.20	0.40
3:N:823:LEU:N	3:N:823:LEU:HD23	2.36	0.40
2:C:140:ILE:HD12	2:C:140:ILE:H	1.86	0.40
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	2.03	0.40
1:L:30:ARG:HG2	1:L:30:ARG:HH11	1.86	0.40
3:D:1238:MET:CE	3:D:1257:PRO:HG3	2.50	0.40
3:D:1258:ARG:HE	3:D:1351:GLU:HG3	1.86	0.40
2:C:54:ILE:HG12	2:C:56:GLU:HG2	2.03	0.40
3:N:210:ARG:O	3:N:394:LEU:O	2.40	0.40
3:N:1161:GLU:HG2	3:N:1164:ARG:HB2	2.02	0.40
3:N:1166:LEU:HD12	3:N:1171:VAL:CG2	2.50	0.40
5:P:210:LEU:HA	5:P:213:ILE:HD12	2.03	0.40
2:M:126:SER:HB3	2:M:395:LYS:NZ	2.37	0.40
1:B:62:LEU:HG	1:B:163:ASN:CG	2.41	0.40
3:D:1037:GLN:OE1	3:D:1042:ARG:NE	2.53	0.40
3:D:1066:THR:HG22	3:D:1069:GLU:H	1.86	0.40
5:F:85:LEU:HA	9:F:9492:HOH:O	2.21	0.40
3:N:562:ALA:HB1	3:N:567:ILE:HD11	2.02	0.40
5:P:215:GLU:OE2	5:P:254:GLN:NE2	2.53	0.40
5:F:163:LEU:HB3	5:F:174:LEU:CG	2.50	0.40
5:P:408:LEU:HA	5:P:411:HIS:CE1	2.55	0.40
2:M:1046:ALA:HB3	3:N:1476:THR:HG22	2.02	0.40
1:A:19:GLU:O	1:A:200:TRP:HA	2.21	0.40
3:N:1133:ARG:HG2	3:N:1134:LEU:N	2.36	0.40
2:M:230:ARG:HA	2:M:231:PRO:HD3	1.80	0.40
1:K:23:PHE:HB2	1:K:197:LEU:HD23	2.03	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1051:GLU:HG2	2:C:1056:LYS:HD2	2.03	0.40
2:C:916:GLU:O	2:C:919:ALA:HB3	2.22	0.40
2:M:602:GLU:HB3	9:M:9999:HOH:O	2.21	0.40
3:D:598:ARG:HD3	5:F:320:PRO:HD3	2.03	0.40
3:N:867:ARG:NH1	9:N:9942:HOH:O	2.54	0.40
2:M:323:ASP:HA	9:M:9868:HOH:O	2.21	0.40
2:C:34:VAL:HB	2:C:38:LYS:HG3	2.02	0.40
3:D:659:LYS:HD3	3:D:659:LYS:C	2.41	0.40
2:M:1030:GLN:CB	3:N:626:SER:HB2	2.52	0.40
2:C:1069:ALA:HA	9:C:2111:HOH:O	2.21	0.40
2:M:410:ILE:HD12	2:M:410:ILE:N	2.37	0.40
5:F:343:ASP:O	5:F:346:THR:HB	2.21	0.40
3:D:1000:THR:CG2	3:D:1001:GLU:N	2.84	0.40
3:D:742:GLY:HA3	9:D:9931:HOH:O	2.22	0.40
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.80	0.40
3:D:396:VAL:HG22	9:D:9613:HOH:O	2.20	0.40
5:P:179:GLU:HG3	9:P:5874:HOH:O	2.21	0.40
2:C:1016:ILE:CD1	3:D:526:PRO:HG2	2.52	0.40
2:M:979:THR:HG23	2:M:981:GLU:N	2.19	0.40
5:F:194:LEU:H	5:F:194:LEU:CD2	2.34	0.40
2:C:1008:ARG:HH22	2:C:1021:LEU:C	2.25	0.40
2:C:1013:TYR:CZ	2:C:1063:ARG:NE	2.89	0.40
3:D:566:ILE:HG13	5:F:192:LEU:HD11	2.04	0.40
5:P:361:LEU:HD12	5:P:408:LEU:HG	2.03	0.40
2:C:527:GLU:HB3	9:C:9801:HOH:O	2.21	0.40
3:D:1423:GLY:O	3:D:1426:LYS:N	2.54	0.40
2:M:728:HIS:HE1	2:M:775:ARG:HH12	1.68	0.40
3:D:704:ARG:HB2	3:D:736:PHE:HB3	2.02	0.40
1:L:152:PRO:HG2	3:N:857:ILE:HD12	2.03	0.40
3:N:1280:VAL:HG12	3:N:1281:VAL:H	1.86	0.40
2:M:285:LEU:HG	2:M:287:GLY:O	2.21	0.40
3:D:1497:GLU:OE1	3:D:1500:LYS:HD2	2.22	0.40
3:D:3:LYS:CD	3:D:3:LYS:H	2.34	0.40
1:K:217:ILE:H	1:K:217:ILE:HG13	1.70	0.40
4:E:17:TYR:N	4:E:17:TYR:HD2	2.17	0.40
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.66	0.40
3:D:52:PRO:HG3	3:D:78:VAL:HG13	2.03	0.40
3:D:169:TYR:HA	3:D:392:SER:CB	2.52	0.40
3:D:1362:LYS:HB3	9:D:9652:HOH:O	2.22	0.40
3:N:1320:GLU:HG2	3:N:1339:LYS:NZ	2.36	0.40
3:N:1422:MET:CE	3:N:1427:SER:HA	2.52	0.40
3:D:773:ALA:HB2	3:D:1228:SER:HB3	2.04	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:44:ILE:HA	9:M:2405:HOH:O	2.22	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%)	201 (88%)	21 (9%)	5 (2%)	10	15
1	B	227/315 (72%)	198 (87%)	23 (10%)	6 (3%)	8	11
1	K	227/315 (72%)	200 (88%)	23 (10%)	4 (2%)	13	20
1	L	227/315 (72%)	203 (89%)	20 (9%)	4 (2%)	13	20
2	C	1117/1119 (100%)	907 (81%)	157 (14%)	53 (5%)	4	3
2	M	1117/1119 (100%)	906 (81%)	158 (14%)	53 (5%)	4	3
3	D	1388/1524 (91%)	1108 (80%)	207 (15%)	73 (5%)	3	2
3	N	1388/1524 (91%)	1105 (80%)	208 (15%)	75 (5%)	3	2
4	E	93/99 (94%)	75 (81%)	15 (16%)	3 (3%)	6	8
4	O	93/99 (94%)	75 (81%)	15 (16%)	3 (3%)	6	8
5	F	341/423 (81%)	285 (84%)	38 (11%)	18 (5%)	3	2
5	P	341/423 (81%)	287 (84%)	38 (11%)	16 (5%)	4	3
All	All	6786/7590 (89%)	5550 (82%)	923 (14%)	313 (5%)	4	4

All (313) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	29	GLU
1	B	29	GLU
1	B	48	ILE
2	C	152	PRO
2	C	178	PRO
2	C	231	PRO

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Mol	Chain	Res	Type
2	C	244	PRO
2	C	262	ALA
2	C	288	ARG
2	C	290	LEU
2	C	422	ARG
2	C	462	ASP
2	C	465	GLY
2	C	548	PRO
2	C	680	ASP
2	C	864	GLY
2	C	908	GLY
2	C	1004	LYS
3	D	40	GLU
3	D	43	GLY
3	D	55	ASP
3	D	82	LYS
3	D	137	PRO
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	246	PRO
3	D	370	ALA
3	D	373	PRO
3	D	381	ALA
3	D	385	VAL
3	D	440	VAL
3	D	504	ASP
3	D	705	ALA
3	D	766	ALA
3	D	832	ARG
3	D	844	ALA
3	D	1028	ALA
3	D	1129	THR
3	D	1208	ASP
3	D	1243	THR
3	D	1441	GLN
4	E	42	PRO
4	E	58	PRO
5	F	147	LEU
5	F	153	PRO
5	F	324	GLU
5	F	341	PRO

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Mol	Chain	Res	Type
5	F	390	PHE
1	K	29	GLU
1	L	29	GLU
2	M	152	PRO
2	M	178	PRO
2	M	231	PRO
2	M	244	PRO
2	M	261	ILE
2	M	262	ALA
2	M	288	ARG
2	M	290	LEU
2	M	422	ARG
2	M	462	ASP
2	M	465	GLY
2	M	680	ASP
2	M	864	GLY
2	M	908	GLY
3	N	40	GLU
3	N	43	GLY
3	N	55	ASP
3	N	82	LYS
3	N	137	PRO
3	N	208	PRO
3	N	209	ARG
3	N	217	LYS
3	N	238	PRO
3	N	246	PRO
3	N	370	ALA
3	N	373	PRO
3	N	381	ALA
3	N	385	VAL
3	N	440	VAL
3	N	504	ASP
3	N	705	ALA
3	N	766	ALA
3	N	832	ARG
3	N	844	ALA
3	N	1028	ALA
3	N	1125	PRO
3	N	1129	THR
3	N	1208	ASP
3	N	1243	THR

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Mol	Chain	Res	Type
3	N	1441	GLN
4	O	42	PRO
4	O	58	PRO
5	P	147	LEU
5	P	153	PRO
5	P	324	GLU
5	P	390	PHE
1	A	187	GLY
1	B	187	GLY
2	C	18	LEU
2	C	59	LYS
2	C	156	GLY
2	C	170	PRO
2	C	261	ILE
2	C	363	SER
2	C	369	PRO
2	C	626	ARG
2	C	627	ARG
2	C	1106	ASP
3	D	96	ALA
3	D	98	PRO
3	D	165	LYS
3	D	220	ARG
3	D	231	VAL
3	D	417	PRO
3	D	594	PRO
3	D	609	GLY
3	D	783	ARG
3	D	803	GLY
3	D	822	ALA
3	D	1020	LEU
4	E	53	GLY
5	F	326	ASP
1	K	187	GLY
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY
2	M	363	SER
2	M	369	PRO
2	M	413	LEU
2	M	447	ALA
2	M	548	PRO

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Mol	Chain	Res	Type
2	M	626	ARG
2	M	1106	ASP
3	N	31	THR
3	N	37	LEU
3	N	98	PRO
3	N	165	LYS
3	N	220	ARG
3	N	417	PRO
3	N	594	PRO
3	N	609	GLY
3	N	783	ARG
3	N	803	GLY
3	N	822	ALA
4	O	53	GLY
5	P	326	ASP
5	P	341	PRO
1	A	106	PRO
1	A	188	GLN
1	B	106	PRO
2	C	74	GLY
2	C	164	PRO
2	C	251	ASP
2	C	273	GLY
2	C	447	ALA
2	C	517	ARG
2	C	727	PRO
2	C	783	ARG
2	C	1007	ALA
3	D	31	THR
3	D	37	LEU
3	D	120	ALA
3	D	170	PRO
3	D	424	GLY
3	D	451	ASP
3	D	1248	GLY
3	D	1286	THR
3	D	1349	VAL
5	F	288	TYR
5	F	420	ASP
1	L	106	PRO
2	M	74	GLY
2	M	164	PRO

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Mol	Chain	Res	Type
2	M	170	PRO
2	M	251	ASP
2	M	423	ALA
2	M	517	ARG
2	M	529	VAL
2	M	627	ARG
2	M	727	PRO
3	N	96	ALA
3	N	120	ALA
3	N	170	PRO
3	N	231	VAL
3	N	424	GLY
3	N	530	VAL
3	N	1338	ALA
3	N	1349	VAL
3	N	1389	LEU
5	P	232	ARG
5	P	288	TYR
5	P	420	ASP
2	C	180	GLY
2	C	400	PRO
2	C	413	LEU
2	C	781	LYS
2	C	1097	LEU
3	D	46	ASP
3	D	415	VAL
3	D	416	ALA
3	D	509	PRO
3	D	522	PRO
3	D	530	VAL
3	D	1338	ALA
3	D	1385	GLY
3	D	1389	LEU
5	F	232	ARG
5	F	286	PRO
5	F	297	PRO
5	F	329	TYR
5	F	393	THR
1	K	106	PRO
2	M	180	GLY
2	M	223	ASP
2	M	273	GLY

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Mol	Chain	Res	Type
2	M	455	LEU
2	M	781	LYS
2	M	1007	ALA
2	M	1097	LEU
3	N	24	GLY
3	N	415	VAL
3	N	416	ALA
3	N	451	ASP
3	N	509	PRO
3	N	522	PRO
3	N	782	SER
3	N	1019	PRO
3	N	1064	GLY
3	N	1248	GLY
3	N	1385	GLY
5	P	286	PRO
5	P	297	PRO
1	B	188	GLN
2	C	399	ASN
2	C	529	VAL
2	C	905	ILE
3	D	24	GLY
3	D	161	LEU
3	D	808	THR
3	D	1019	PRO
3	D	1064	GLY
3	D	1213	ARG
3	D	1241	PHE
3	D	1315	ASP
3	D	1379	VAL
5	F	97	GLU
5	F	416	ARG
2	M	18	LEU
3	N	161	LEU
3	N	533	GLY
3	N	808	THR
3	N	1241	PHE
3	N	1286	THR
3	N	1315	ASP
3	N	1341	PRO
5	P	184	ARG
5	P	393	THR

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Mol	Chain	Res	Type
1	B	9	PRO
2	C	79	PRO
2	C	779	GLY
3	D	425	GLY
3	D	782	SER
3	D	1288	GLU
5	F	167	PRO
5	F	293	GLU
2	M	79	PRO
2	M	705	ILE
2	M	779	GLY
2	M	1059	ASP
3	N	1213	ARG
3	N	1390	LEU
5	P	416	ARG
2	C	424	GLY
3	D	368	VAL
3	D	1306	PRO
1	K	9	PRO
2	M	399	ASN
3	N	368	VAL
3	N	425	GLY
5	P	167	PRO
1	A	9	PRO
2	C	1076	VAL
3	D	1446	VAL
1	L	9	PRO
2	M	646	GLY
3	N	173	PRO
3	N	1306	PRO
3	N	1379	VAL
3	N	1446	VAL
5	P	314	PRO
3	D	136	ASP
2	M	767	PRO
2	M	905	ILE
2	M	1076	VAL
2	C	53	PRO
2	C	835	VAL
3	D	173	PRO
3	D	781	PRO
2	M	17	PRO

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Mol	Chain	Res	Type
2	M	415	PRO
3	N	136	ASP
3	N	169	TYR
3	N	1268	PRO
2	C	17	PRO
2	C	377	PRO
2	C	646	GLY
2	C	767	PRO
3	D	526	PRO
5	F	314	PRO
2	M	377	PRO
2	C	166	PRO
2	M	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%)	159 (79%)	43 (21%)	1	2
1	B	202/273 (74%)	161 (80%)	41 (20%)	2	3
1	K	202/273 (74%)	158 (78%)	44 (22%)	1	2
1	L	202/273 (74%)	160 (79%)	42 (21%)	2	3
2	C	941/941 (100%)	714 (76%)	227 (24%)	1	1
2	M	941/941 (100%)	738 (78%)	203 (22%)	1	2
3	D	1123/1279 (88%)	868 (77%)	255 (23%)	1	2
3	N	1123/1279 (88%)	871 (78%)	252 (22%)	1	2
4	E	83/87 (95%)	62 (75%)	21 (25%)	1	1
4	O	83/87 (95%)	65 (78%)	18 (22%)	1	2
5	F	295/370 (80%)	233 (79%)	62 (21%)	1	2
5	P	295/370 (80%)	246 (83%)	49 (17%)	3	6
All	All	5692/6446 (88%)	4435 (78%)	1257 (22%)	1	2

All (1257) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	5	LYS
1	A	9	PRO
1	A	12	THR
1	A	15	THR
1	A	16	GLN
1	A	20	TYR
1	A	26	GLU
1	A	44	LEU
1	A	45	LEU
1	A	47	SER
1	A	66	SER
1	A	73	GLU
1	A	74	ASP
1	A	89	PHE
1	A	96	THR
1	A	101	LEU
1	A	104	GLU
1	A	112	ARG
1	A	115	LEU
1	A	121	GLU
1	A	127	LEU
1	A	133	GLU
1	A	137	ARG
1	A	161	ARG
1	A	163	ASN
1	A	167	VAL
1	A	170	VAL
1	A	184	THR
1	A	186	LEU
1	A	188	GLN
1	A	190	THR
1	A	191	ASP
1	A	196	THR
1	A	197	LEU
1	A	198	ARG
1	A	205	VAL
1	A	206	THR
1	A	208	LEU
1	A	211	LEU
1	A	223	THR
1	A	227	ASN
1	A	229	GLN

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Mol	Chain	Res	Type
1	B	1	MET
1	B	5	LYS
1	B	7	LYS
1	B	9	PRO
1	B	26	GLU
1	B	30	ARG
1	B	41	ARG
1	B	60	ASP
1	B	65	PHE
1	B	68	ILE
1	B	73	GLU
1	B	77	GLU
1	B	80	LEU
1	B	88	ARG
1	B	89	PHE
1	B	92	PRO
1	B	94	LEU
1	B	95	GLN
1	B	96	THR
1	B	101	LEU
1	B	112	ARG
1	B	121	GLU
1	B	124	ASN
1	B	128	HIS
1	B	133	GLU
1	B	140	MET
1	B	141	GLU
1	B	146	ARG
1	B	159	LYS
1	B	162	ILE
1	B	189	ARG
1	B	190	THR
1	B	193	ASP
1	B	196	THR
1	B	197	LEU
1	B	200	TRP
1	B	206	THR
1	B	208	LEU
1	B	209	GLU
1	B	213	GLN
1	B	224	TYR
2	C	1	MET

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Mol	Chain	Res	Type
2	C	5	ARG
2	C	8	ARG
2	C	10	ARG
2	C	20	GLU
2	C	22	GLN
2	C	26	TYR
2	C	30	LEU
2	C	31	GLN
2	C	34	VAL
2	C	37	GLU
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	81	ASP
2	C	82	GLU
2	C	87	ASP
2	C	95	TYR
2	C	98	LEU
2	C	99	GLN
2	C	100	LEU
2	C	104	ASP
2	C	110	GLU
2	C	114	PHE
2	C	115	LEU
2	C	133	ASP
2	C	135	VAL
2	C	137	VAL
2	C	139	GLN
2	C	140	ILE
2	C	141	HIS
2	C	144	PRO
2	C	149	THR
2	C	150	PRO
2	C	152	PRO
2	C	157	ARG
2	C	158	TYR
2	C	161	SER
2	C	163	ILE
2	C	168	ARG
2	C	170	PRO
2	C	178	PRO
2	C	194	VAL

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Mol	Chain	Res	Type
2	C	196	LEU
2	C	198	ARG
2	C	205	GLU
2	C	221	LEU
2	C	222	MET
2	C	223	ASP
2	C	229	MET
2	C	237	ARG
2	C	238	LEU
2	C	252	LYS
2	C	254	VAL
2	C	257	VAL
2	C	267	TYR
2	C	268	ASP
2	C	275	TYR
2	C	279	GLU
2	C	285	LEU
2	C	286	SER
2	C	290	LEU
2	C	292	ARG
2	C	297	GLU
2	C	303	PHE
2	C	304	LEU
2	C	308	ARG
2	C	309	TYR
2	C	321	GLU
2	C	323	ASP
2	C	332	ARG
2	C	340	MET
2	C	342	ASP
2	C	343	GLN
2	C	350	ARG
2	C	357	GLU
2	C	359	MET
2	C	360	LEU
2	C	364	GLU
2	C	365	ASP
2	C	367	LEU
2	C	376	ARG
2	C	379	GLU
2	C	383	ARG
2	C	384	GLU

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Mol	Chain	Res	Type
2	C	388	ARG
2	C	392	SER
2	C	393	GLN
2	C	394	PHE
2	C	399	ASN
2	C	400	PRO
2	C	408	ARG
2	C	413	LEU
2	C	419	THR
2	C	420	ARG
2	C	421	GLU
2	C	422	ARG
2	C	425	PHE
2	C	426	ASP
2	C	432	ARG
2	C	443	THR
2	C	451	LEU
2	C	452	ILE
2	C	453	THR
2	C	460	ARG
2	C	474	VAL
2	C	479	VAL
2	C	482	GLU
2	C	486	MET
2	C	492	ASP
2	C	496	ILE
2	C	502	PRO
2	C	503	LEU
2	C	508	ILE
2	C	517	ARG
2	C	527	GLU
2	C	533	ASP
2	C	537	LYS
2	C	542	VAL
2	C	548	PRO
2	C	554	ASP
2	C	559	LEU
2	C	564	MET
2	C	565	GLN
2	C	584	GLU
2	C	589	ARG
2	C	620	LEU

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Mol	Chain	Res	Type
2	C	621	VAL
2	C	622	GLU
2	C	633	GLN
2	C	640	ARG
2	C	650	ARG
2	C	654	LEU
2	C	655	LEU
2	C	657	ASP
2	C	663	ASN
2	C	668	LEU
2	C	671	ASN
2	C	672	VAL
2	C	679	PHE
2	C	684	PHE
2	C	686	ASP
2	C	691	SER
2	C	693	GLU
2	C	699	PHE
2	C	714	ASP
2	C	722	ILE
2	C	724	ARG
2	C	725	ASP
2	C	727	PRO
2	C	730	SER
2	C	740	GLU
2	C	744	ARG
2	C	749	VAL
2	C	759	THR
2	C	768	THR
2	C	771	GLU
2	C	773	LEU
2	C	780	GLU
2	C	785	VAL
2	C	791	ARG
2	C	794	PRO
2	C	796	GLU
2	C	799	ILE
2	C	804	VAL
2	C	808	ARG
2	C	820	ARG
2	C	821	GLU
2	C	829	GLN

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Mol	Chain	Res	Type
2	C	834	GLN
2	C	835	VAL
2	C	839	LEU
2	C	841	ASN
2	C	858	MET
2	C	860	HIS
2	C	862	PRO
2	C	863	ASP
2	C	868	ASP
2	C	870	ILE
2	C	877	PRO
2	C	881	ASN
2	C	882	LEU
2	C	886	LEU
2	C	904	PRO
2	C	905	ILE
2	C	907	ASP
2	C	916	GLU
2	C	923	GLU
2	C	925	TYR
2	C	934	PHE
2	C	939	ARG
2	C	945	ARG
2	C	948	GLU
2	C	950	LEU
2	C	953	VAL
2	C	966	LEU
2	C	976	ASP
2	C	978	ARG
2	C	981	GLU
2	C	984	GLU
2	C	988	VAL
2	C	993	PHE
2	C	995	MET
2	C	1000	MET
2	C	1002	GLU
2	C	1006	HIS
2	C	1008	ARG
2	C	1016	ILE
2	C	1019	GLN
2	C	1021	LEU
2	C	1024	LYS

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Mol	Chain	Res	Type
2	C	1026	GLN
2	C	1052	MET
2	C	1054	THR
2	C	1074	GLU
2	C	1076	VAL
2	C	1082	PRO
2	C	1083	GLU
2	C	1085	PHE
2	C	1087	VAL
2	C	1092	LEU
2	C	1095	LEU
2	C	1098	ASP
2	C	1103	ASP
2	C	1104	GLU
2	C	1106	ASP
2	C	1109	VAL
3	D	3	LYS
3	D	5	VAL
3	D	6	ARG
3	D	9	ARG
3	D	12	LEU
3	D	14	SER
3	D	16	GLU
3	D	25	GLU
3	D	27	GLU
3	D	29	PRO
3	D	31	THR
3	D	41	ARG
3	D	42	ASP
3	D	47	GLU
3	D	48	ARG
3	D	53	ILE
3	D	55	ASP
3	D	56	TYR
3	D	58	CYS
3	D	62	LYS
3	D	68	PHE
3	D	71	LYS
3	D	76	CYS
3	D	80	VAL
3	D	82	LYS
3	D	85	VAL

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Mol	Chain	Res	Type
3	D	86	ARG
3	D	87	ARG
3	D	95	LEU
3	D	101	HIS
3	D	102	ILE
3	D	112	ILE
3	D	115	LEU
3	D	117	ASP
3	D	118	LEU
3	D	122	GLU
3	D	127	LEU
3	D	133	ILE
3	D	143	ASN
3	D	145	VAL
3	D	150	ARG
3	D	153	LEU
3	D	155	ASP
3	D	156	GLU
3	D	162	ARG
3	D	166	GLN
3	D	170	PRO
3	D	171	LEU
3	D	185	VAL
3	D	199	LEU
3	D	205	TYR
3	D	206	ARG
3	D	208	PRO
3	D	209	ARG
3	D	389	GLU
3	D	394	LEU
3	D	405	ASP
3	D	411	THR
3	D	413	ASP
3	D	421	LEU
3	D	432	TYR
3	D	444	VAL
3	D	445	ARG
3	D	452	ILE
3	D	455	ARG
3	D	456	MET
3	D	459	GLU
3	D	475	LYS

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Mol	Chain	Res	Type
3	D	481	MET
3	D	483	HIS
3	D	486	ARG
3	D	488	ARG
3	D	502	PHE
3	D	504	ASP
3	D	521	PRO
3	D	528	VAL
3	D	529	GLN
3	D	535	PHE
3	D	537	THR
3	D	540	LEU
3	D	542	ASP
3	D	554	LEU
3	D	565	ILE
3	D	568	ARG
3	D	569	ASN
3	D	571	LYS
3	D	576	GLU
3	D	584	ASN
3	D	590	PRO
3	D	594	PRO
3	D	613	ARG
3	D	618	LEU
3	D	624	ASP
3	D	629	SER
3	D	636	GLN
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	656	PHE
3	D	661	MET
3	D	675	ARG
3	D	676	MET
3	D	682	ASP
3	D	688	TRP
3	D	695	ILE
3	D	702	LEU
3	D	704	ARG
3	D	713	ILE
3	D	716	PHE
3	D	719	VAL

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Mol	Chain	Res	Type
3	D	724	GLN
3	D	734	GLU
3	D	739	ASP
3	D	749	VAL
3	D	754	PHE
3	D	781	PRO
3	D	792	ILE
3	D	793	THR
3	D	794	GLN
3	D	796	ARG
3	D	797	LYS
3	D	800	LYS
3	D	805	GLU
3	D	810	GLU
3	D	813	LEU
3	D	824	ASN
3	D	828	LYS
3	D	829	VAL
3	D	832	ARG
3	D	839	LEU
3	D	847	ASP
3	D	850	LEU
3	D	851	LEU
3	D	859	ASP
3	D	862	ASP
3	D	863	VAL
3	D	864	VAL
3	D	865	THR
3	D	867	ARG
3	D	879	ARG
3	D	880	ILE
3	D	888	GLU
3	D	891	GLU
3	D	902	LEU
3	D	910	SER
3	D	914	LEU
3	D	916	TYR
3	D	917	GLN
3	D	919	PHE
3	D	922	LEU
3	D	927	THR
3	D	944	THR

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Mol	Chain	Res	Type
3	D	951	ILE
3	D	952	ASP
3	D	957	PRO
3	D	959	GLU
3	D	968	ASP
3	D	972	LEU
3	D	985	ASP
3	D	987	GLU
3	D	999	THR
3	D	1001	GLU
3	D	1026	SER
3	D	1029	ARG
3	D	1032	PRO
3	D	1041	LEU
3	D	1042	ARG
3	D	1051	GLU
3	D	1058	ARG
3	D	1060	SER
3	D	1062	ARG
3	D	1065	LEU
3	D	1068	LEU
3	D	1087	ARG
3	D	1095	THR
3	D	1096	ARG
3	D	1109	GLU
3	D	1112	CYS
3	D	1116	ASN
3	D	1127	GLU
3	D	1135	ARG
3	D	1139	ASP
3	D	1144	LEU
3	D	1151	ARG
3	D	1160	LEU
3	D	1161	GLU
3	D	1164	ARG
3	D	1166	LEU
3	D	1167	SER
3	D	1173	LEU
3	D	1176	LYS
3	D	1195	GLN
3	D	1207	TYR
3	D	1209	LEU

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Mol	Chain	Res	Type
3	D	1211	MET
3	D	1215	VAL
3	D	1223	ILE
3	D	1227	GLN
3	D	1231	GLU
3	D	1238	MET
3	D	1242	HIS
3	D	1243	THR
3	D	1251	ASP
3	D	1258	ARG
3	D	1260	ILE
3	D	1264	GLU
3	D	1267	ARG
3	D	1269	LYS
3	D	1274	ILE
3	D	1276	GLU
3	D	1285	GLU
3	D	1288	GLU
3	D	1290	LEU
3	D	1299	PHE
3	D	1305	LEU
3	D	1307	LYS
3	D	1314	LYS
3	D	1317	ASP
3	D	1318	TYR
3	D	1331	ASP
3	D	1337	GLU
3	D	1344	VAL
3	D	1345	GLU
3	D	1346	ARG
3	D	1348	LEU
3	D	1353	GLN
3	D	1359	GLN
3	D	1363	LEU
3	D	1365	ASP
3	D	1368	ILE
3	D	1376	MET
3	D	1378	TYR
3	D	1382	THR
3	D	1387	SER
3	D	1388	ARG
3	D	1389	LEU

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Mol	Chain	Res	Type
3	D	1401	GLU
3	D	1403	LEU
3	D	1406	ARG
3	D	1415	VAL
3	D	1420	LEU
3	D	1421	LEU
3	D	1424	VAL
3	D	1432	LYS
3	D	1435	LEU
3	D	1440	PHE
3	D	1447	LEU
3	D	1460	ILE
3	D	1463	LYS
3	D	1465	ASN
3	D	1479	ASP
3	D	1485	GLN
3	D	1488	ASP
3	D	1496	GLU
3	D	1501	GLU
4	E	14	ASP
4	E	20	THR
4	E	28	GLN
4	E	29	GLN
4	E	30	LEU
4	E	31	LEU
4	E	32	ARG
4	E	33	HIS
4	E	40	LEU
4	E	42	PRO
4	E	43	GLU
4	E	45	ARG
4	E	56	ASP
4	E	57	ASP
4	E	59	ASN
4	E	61	GLU
4	E	66	LYS
4	E	67	GLU
4	E	81	PRO
4	E	84	ARG
4	E	87	LYS
5	F	80	PRO
5	F	83	GLN

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Mol	Chain	Res	Type
5	F	84	TYR
5	F	86	HIS
5	F	90	GLN
5	F	91	VAL
5	F	101	GLU
5	F	111	GLU
5	F	125	ASP
5	F	126	LEU
5	F	127	ILE
5	F	135	ILE
5	F	136	LEU
5	F	142	ARG
5	F	145	PRO
5	F	149	GLU
5	F	154	LYS
5	F	164	LYS
5	F	170	HIS
5	F	174	LEU
5	F	184	ARG
5	F	187	LEU
5	F	207	LEU
5	F	208	SER
5	F	209	PHE
5	F	218	GLN
5	F	233	PHE
5	F	234	LYS
5	F	240	THR
5	F	244	ARG
5	F	245	GLN
5	F	256	ARG
5	F	261	PRO
5	F	264	MET
5	F	280	GLN
5	F	282	LEU
5	F	290	GLU
5	F	295	MET
5	F	297	PRO
5	F	302	LYS
5	F	310	ILE
5	F	313	GLU
5	F	328	PHE
5	F	329	TYR

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Mol	Chain	Res	Type
5	F	331	ASP
5	F	340	SER
5	F	341	PRO
5	F	347	GLN
5	F	349	LEU
5	F	355	GLU
5	F	363	GLU
5	F	365	GLU
5	F	370	LYS
5	F	393	THR
5	F	396	ARG
5	F	399	GLN
5	F	403	LYS
5	F	406	ARG
5	F	408	LEU
5	F	410	TYR
5	F	414	ARG
5	F	420	ASP
1	K	5	LYS
1	K	9	PRO
1	K	12	THR
1	K	18	ARG
1	K	26	GLU
1	K	29	GLU
1	K	44	LEU
1	K	60	ASP
1	K	62	LEU
1	K	67	THR
1	K	73	GLU
1	K	84	GLU
1	K	88	ARG
1	K	89	PHE
1	K	90	LEU
1	K	92	PRO
1	K	94	LEU
1	K	101	LEU
1	K	112	ARG
1	K	115	LEU
1	K	121	GLU
1	K	127	LEU
1	K	134	GLU
1	K	142	VAL

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Mol	Chain	Res	Type
1	K	145	ASP
1	K	146	ARG
1	K	156	HIS
1	K	165	ILE
1	K	167	VAL
1	K	176	ARG
1	K	179	PHE
1	K	180	GLN
1	K	183	ASP
1	K	184	THR
1	K	186	LEU
1	K	196	THR
1	K	197	LEU
1	K	198	ARG
1	K	206	THR
1	K	211	LEU
1	K	216	GLU
1	K	219	ARG
1	K	223	THR
1	K	227	ASN
1	L	1	MET
1	L	2	LEU
1	L	4	SER
1	L	5	LYS
1	L	7	LYS
1	L	26	GLU
1	L	29	GLU
1	L	38	ASN
1	L	41	ARG
1	L	47	SER
1	L	55	SER
1	L	62	LEU
1	L	73	GLU
1	L	77	GLU
1	L	80	LEU
1	L	88	ARG
1	L	89	PHE
1	L	94	LEU
1	L	95	GLN
1	L	101	LEU
1	L	108	GLU
1	L	112	ARG

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Mol	Chain	Res	Type
1	L	113	ASP
1	L	121	GLU
1	L	123	MET
1	L	126	ASP
1	L	138	LEU
1	L	141	GLU
1	L	159	LYS
1	L	160	ASP
1	L	167	VAL
1	L	177	VAL
1	L	182	GLU
1	L	190	THR
1	L	191	ASP
1	L	201	THR
1	L	204	SER
1	L	206	THR
1	L	208	LEU
1	L	213	GLN
1	L	220	GLU
1	L	221	HIS
2	M	5	ARG
2	M	10	ARG
2	M	22	GLN
2	M	26	TYR
2	M	30	LEU
2	M	31	GLN
2	M	33	ASP
2	M	34	VAL
2	M	48	PHE
2	M	49	ARG
2	M	51	THR
2	M	71	TYR
2	M	79	PRO
2	M	86	LYS
2	M	91	GLN
2	M	95	TYR
2	M	98	LEU
2	M	99	GLN
2	M	100	LEU
2	M	102	HIS
2	M	104	ASP
2	M	105	THR

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Mol	Chain	Res	Type
2	M	107	LEU
2	M	108	ILE
2	M	110	GLU
2	M	114	PHE
2	M	115	LEU
2	M	133	ASP
2	M	134	ARG
2	M	141	HIS
2	M	143	SER
2	M	149	THR
2	M	152	PRO
2	M	157	ARG
2	M	158	TYR
2	M	163	ILE
2	M	167	LYS
2	M	168	ARG
2	M	178	PRO
2	M	182	VAL
2	M	184	MET
2	M	187	ASN
2	M	189	ARG
2	M	198	ARG
2	M	209	ARG
2	M	216	GLU
2	M	218	VAL
2	M	221	LEU
2	M	222	MET
2	M	229	MET
2	M	230	ARG
2	M	237	ARG
2	M	239	PHE
2	M	243	ARG
2	M	252	LYS
2	M	254	VAL
2	M	260	LEU
2	M	267	TYR
2	M	276	LYS
2	M	279	GLU
2	M	285	LEU
2	M	290	LEU
2	M	293	PHE
2	M	295	ASP

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Mol	Chain	Res	Type
2	M	297	GLU
2	M	303	PHE
2	M	304	LEU
2	M	309	TYR
2	M	321	GLU
2	M	322	VAL
2	M	328	LEU
2	M	345	ARG
2	M	348	LEU
2	M	359	MET
2	M	360	LEU
2	M	365	ASP
2	M	367	LEU
2	M	371	LYS
2	M	374	ASN
2	M	384	GLU
2	M	393	GLN
2	M	397	GLU
2	M	413	LEU
2	M	415	PRO
2	M	420	ARG
2	M	421	GLU
2	M	422	ARG
2	M	425	PHE
2	M	426	ASP
2	M	435	TYR
2	M	443	THR
2	M	451	LEU
2	M	455	LEU
2	M	460	ARG
2	M	468	ARG
2	M	469	THR
2	M	474	VAL
2	M	479	VAL
2	M	482	GLU
2	M	496	ILE
2	M	500	ASN
2	M	503	LEU
2	M	507	ARG
2	M	524	VAL
2	M	538	GLN
2	M	540	PHE

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Mol	Chain	Res	Type
2	M	542	VAL
2	M	545	ASN
2	M	563	ASN
2	M	564	MET
2	M	571	LEU
2	M	583	LEU
2	M	584	GLU
2	M	586	ARG
2	M	589	ARG
2	M	590	ASP
2	M	591	SER
2	M	599	GLU
2	M	605	LYS
2	M	607	ASP
2	M	620	LEU
2	M	626	ARG
2	M	627	ARG
2	M	630	ARG
2	M	633	GLN
2	M	635	THR
2	M	637	LEU
2	M	645	VAL
2	M	653	ASP
2	M	654	LEU
2	M	657	ASP
2	M	663	ASN
2	M	668	LEU
2	M	672	VAL
2	M	679	PHE
2	M	684	PHE
2	M	689	VAL
2	M	697	ARG
2	M	699	PHE
2	M	713	ARG
2	M	717	LEU
2	M	727	PRO
2	M	729	LEU
2	M	730	SER
2	M	735	ARG
2	M	737	LEU
2	M	739	GLU
2	M	749	VAL

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Mol	Chain	Res	Type
2	M	750	LYS
2	M	755	LEU
2	M	762	LYS
2	M	772	ARG
2	M	775	ARG
2	M	780	GLU
2	M	785	VAL
2	M	799	ILE
2	M	802	ARG
2	M	807	ARG
2	M	808	ARG
2	M	821	GLU
2	M	825	VAL
2	M	834	GLN
2	M	835	VAL
2	M	839	LEU
2	M	841	ASN
2	M	853	LEU
2	M	862	PRO
2	M	863	ASP
2	M	881	ASN
2	M	886	LEU
2	M	897	LEU
2	M	910	LYS
2	M	911	GLU
2	M	925	TYR
2	M	937	ASP
2	M	950	LEU
2	M	958	THR
2	M	966	LEU
2	M	981	GLU
2	M	984	GLU
2	M	988	VAL
2	M	999	HIS
2	M	1000	MET
2	M	1002	GLU
2	M	1003	ASP
2	M	1008	ARG
2	M	1009	SER
2	M	1016	ILE
2	M	1035	MET
2	M	1058	ASP

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Mol	Chain	Res	Type
2	M	1060	ILE
2	M	1074	GLU
2	M	1076	VAL
2	M	1079	PRO
2	M	1087	VAL
2	M	1092	LEU
2	M	1095	LEU
2	M	1097	LEU
2	M	1098	ASP
2	M	1100	GLN
2	M	1103	ASP
2	M	1117	SER
2	M	1118	LYS
3	N	3	LYS
3	N	6	ARG
3	N	12	LEU
3	N	15	PRO
3	N	20	SER
3	N	27	GLU
3	N	32	ILE
3	N	34	TYR
3	N	35	ARG
3	N	41	ARG
3	N	52	PRO
3	N	53	ILE
3	N	55	ASP
3	N	56	TYR
3	N	65	ARG
3	N	66	GLN
3	N	71	LYS
3	N	76	CYS
3	N	80	VAL
3	N	82	LYS
3	N	85	VAL
3	N	87	ARG
3	N	102	ILE
3	N	103	TRP
3	N	106	LYS
3	N	108	VAL
3	N	112	ILE
3	N	117	ASP
3	N	123	LEU

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Mol	Chain	Res	Type
3	N	128	TYR
3	N	130	SER
3	N	133	ILE
3	N	142	LEU
3	N	145	VAL
3	N	153	LEU
3	N	155	ASP
3	N	160	GLU
3	N	161	LEU
3	N	162	ARG
3	N	166	GLN
3	N	169	TYR
3	N	170	PRO
3	N	171	LEU
3	N	185	VAL
3	N	190	GLU
3	N	199	LEU
3	N	205	TYR
3	N	206	ARG
3	N	208	PRO
3	N	210	ARG
3	N	389	GLU
3	N	395	VAL
3	N	413	ASP
3	N	414	ARG
3	N	419	ASP
3	N	421	LEU
3	N	430	ASP
3	N	432	TYR
3	N	442	ASN
3	N	445	ARG
3	N	450	TYR
3	N	455	ARG
3	N	456	MET
3	N	459	GLU
3	N	463	GLN
3	N	465	LEU
3	N	475	LYS
3	N	481	MET
3	N	483	HIS
3	N	486	ARG
3	N	488	ARG

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Mol	Chain	Res	Type
3	N	493	ARG
3	N	502	PHE
3	N	503	LEU
3	N	505	SER
3	N	509	PRO
3	N	511	TRP
3	N	521	PRO
3	N	530	VAL
3	N	554	LEU
3	N	576	GLU
3	N	581	LEU
3	N	584	ASN
3	N	592	THR
3	N	594	PRO
3	N	601	ARG
3	N	602	SER
3	N	616	GLN
3	N	617	ASN
3	N	629	SER
3	N	641	GLN
3	N	651	GLU
3	N	652	LEU
3	N	666	ILE
3	N	674	ARG
3	N	676	MET
3	N	677	LEU
3	N	681	ARG
3	N	688	TRP
3	N	692	GLU
3	N	695	ILE
3	N	701	LEU
3	N	704	ARG
3	N	709	HIS
3	N	710	ARG
3	N	716	PHE
3	N	721	VAL
3	N	736	PHE
3	N	739	ASP
3	N	754	PHE
3	N	758	GLU
3	N	768	ASN
3	N	770	LEU

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Mol	Chain	Res	Type
3	N	778	LEU
3	N	783	ARG
3	N	786	ILE
3	N	792	ILE
3	N	794	GLN
3	N	796	ARG
3	N	797	LYS
3	N	799	LYS
3	N	800	LYS
3	N	805	GLU
3	N	823	LEU
3	N	828	LYS
3	N	836	VAL
3	N	847	ASP
3	N	863	VAL
3	N	865	THR
3	N	868	TYR
3	N	869	MET
3	N	876	SER
3	N	879	ARG
3	N	880	ILE
3	N	888	GLU
3	N	890	VAL
3	N	891	GLU
3	N	892	ASP
3	N	897	TRP
3	N	899	LEU
3	N	907	GLU
3	N	914	LEU
3	N	942	SER
3	N	951	ILE
3	N	959	GLU
3	N	971	LEU
3	N	972	LEU
3	N	984	THR
3	N	990	ASP
3	N	991	GLN
3	N	994	GLN
3	N	999	THR
3	N	1020	LEU
3	N	1033	GLN
3	N	1034	GLN

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Mol	Chain	Res	Type
3	N	1035	ILE
3	N	1039	CYS
3	N	1045	MET
3	N	1051	GLU
3	N	1052	THR
3	N	1058	ARG
3	N	1060	SER
3	N	1062	ARG
3	N	1063	GLU
3	N	1065	LEU
3	N	1068	LEU
3	N	1083	ASP
3	N	1084	THR
3	N	1087	ARG
3	N	1090	ASP
3	N	1095	THR
3	N	1096	ARG
3	N	1101	VAL
3	N	1109	GLU
3	N	1111	ASP
3	N	1112	CYS
3	N	1115	THR
3	N	1127	GLU
3	N	1129	THR
3	N	1130	ARG
3	N	1136	LYS
3	N	1141	GLU
3	N	1144	LEU
3	N	1151	ARG
3	N	1164	ARG
3	N	1166	LEU
3	N	1183	ILE
3	N	1195	GLN
3	N	1207	TYR
3	N	1208	ASP
3	N	1213	ARG
3	N	1216	SER
3	N	1217	ILE
3	N	1231	GLU
3	N	1238	MET
3	N	1243	THR
3	N	1252	ILE

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Mol	Chain	Res	Type
3	N	1259	VAL
3	N	1262	LEU
3	N	1264	GLU
3	N	1267	ARG
3	N	1269	LYS
3	N	1285	GLU
3	N	1286	THR
3	N	1295	GLU
3	N	1297	GLU
3	N	1299	PHE
3	N	1301	LYS
3	N	1306	PRO
3	N	1307	LYS
3	N	1308	GLU
3	N	1311	LEU
3	N	1312	LEU
3	N	1314	LYS
3	N	1317	ASP
3	N	1318	TYR
3	N	1331	ASP
3	N	1332	PRO
3	N	1337	GLU
3	N	1344	VAL
3	N	1346	ARG
3	N	1353	GLN
3	N	1355	VAL
3	N	1363	LEU
3	N	1372	VAL
3	N	1382	THR
3	N	1387	SER
3	N	1389	LEU
3	N	1391	GLU
3	N	1395	LEU
3	N	1399	ASP
3	N	1401	GLU
3	N	1403	LEU
3	N	1418	LYS
3	N	1419	PRO
3	N	1420	LEU
3	N	1424	VAL
3	N	1431	THR
3	N	1432	LYS

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Mol	Chain	Res	Type
3	N	1433	SER
3	N	1435	LEU
3	N	1439	SER
3	N	1440	PHE
3	N	1441	GLN
3	N	1447	LEU
3	N	1465	ASN
3	N	1466	VAL
3	N	1476	THR
3	N	1478	SER
3	N	1483	PHE
3	N	1485	GLN
3	N	1488	ASP
4	O	12	MET
4	O	14	ASP
4	O	15	SER
4	O	32	ARG
4	O	41	GLU
4	O	42	PRO
4	O	45	ARG
4	O	51	LEU
4	O	54	LEU
4	O	57	ASP
4	O	59	ASN
4	O	61	GLU
4	O	66	LYS
4	O	70	THR
4	O	72	ARG
4	O	84	ARG
4	O	85	LEU
4	O	86	GLN
5	P	83	GLN
5	P	84	TYR
5	P	86	HIS
5	P	87	GLU
5	P	91	VAL
5	P	96	LEU
5	P	101	GLU
5	P	108	GLU
5	P	125	ASP
5	P	132	ARG
5	P	135	ILE

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Mol	Chain	Res	Type
5	P	136	LEU
5	P	142	ARG
5	P	150	THR
5	P	164	LYS
5	P	174	LEU
5	P	186	HIS
5	P	187	LEU
5	P	209	PHE
5	P	211	ASP
5	P	212	LEU
5	P	214	GLN
5	P	220	LEU
5	P	225	GLU
5	P	231	ARG
5	P	234	LYS
5	P	240	THR
5	P	277	GLN
5	P	285	GLU
5	P	289	GLU
5	P	295	MET
5	P	302	LYS
5	P	319	THR
5	P	327	SER
5	P	328	PHE
5	P	337	HIS
5	P	341	PRO
5	P	347	GLN
5	P	350	LEU
5	P	353	GLU
5	P	363	GLU
5	P	365	GLU
5	P	370	LYS
5	P	393	THR
5	P	399	GLN
5	P	403	LYS
5	P	410	TYR
5	P	419	ARG
5	P	420	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (169) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	81	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN
1	A	227	ASN
1	A	229	GLN
1	B	16	GLN
1	B	38	ASN
1	B	81	ASN
1	B	95	GLN
1	B	124	ASN
1	B	163	ASN
1	B	212	ASN
1	B	213	GLN
1	B	227	ASN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	117	HIS
2	C	320	HIS
2	C	399	ASN
2	C	448	ASN
2	C	498	GLN
2	C	543	ASN
2	C	552	HIS
2	C	563	ASN
2	C	565	GLN
2	C	632	ASN
2	C	663	ASN
2	C	670	GLN
2	C	834	GLN
2	C	841	ASN
2	C	845	ASN
2	C	881	ASN
2	C	884	GLN
2	C	889	HIS
2	C	899	GLN
2	C	969	GLN
2	C	999	HIS
2	C	1019	GLN
2	C	1047	HIS
2	C	1107	ASN

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Mol	Chain	Res	Type
3	D	143	ASN
3	D	151	GLN
3	D	463	GLN
3	D	549	ASN
3	D	560	GLN
3	D	584	ASN
3	D	703	ASN
3	D	724	GLN
3	D	756	GLN
3	D	768	ASN
3	D	824	ASN
3	D	917	GLN
3	D	976	GLN
3	D	994	GLN
3	D	1025	GLN
3	D	1033	GLN
3	D	1075	HIS
3	D	1103	HIS
3	D	1116	ASN
3	D	1124	GLN
3	D	1184	GLN
3	D	1202	GLN
3	D	1323	GLN
3	D	1333	HIS
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1465	ASN
4	E	37	ASN
4	E	86	GLN
5	F	83	GLN
5	F	90	GLN
5	F	185	GLN
5	F	218	GLN
5	F	312	GLN
5	F	337	HIS
5	F	402	ASN
1	K	38	ASN
1	K	156	HIS
1	K	180	GLN
1	K	213	GLN
1	K	227	ASN

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Mol	Chain	Res	Type
1	K	229	GLN
1	L	38	ASN
1	L	95	GLN
1	L	128	HIS
1	L	212	ASN
1	L	229	GLN
2	M	22	GLN
2	M	31	GLN
2	M	99	GLN
2	M	117	HIS
2	M	139	GLN
2	M	343	GLN
2	M	374	ASN
2	M	390	GLN
2	M	431	HIS
2	M	434	HIS
2	M	448	ASN
2	M	506	ASN
2	M	563	ASN
2	M	575	GLN
2	M	609	ASN
2	M	632	ASN
2	M	639	GLN
2	M	663	ASN
2	M	671	ASN
2	M	834	GLN
2	M	841	ASN
2	M	881	ASN
2	M	889	HIS
2	M	899	GLN
2	M	920	GLN
2	M	969	GLN
2	M	1018	GLN
2	M	1019	GLN
3	N	101	HIS
3	N	462	GLN
3	N	463	GLN
3	N	507	ASN
3	N	549	ASN
3	N	552	ASN
3	N	569	ASN
3	N	703	ASN

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Mol	Chain	Res	Type
3	N	717	GLN
3	N	727	GLN
3	N	737	ASN
3	N	748	HIS
3	N	756	GLN
3	N	768	ASN
3	N	794	GLN
3	N	855	HIS
3	N	906	GLN
3	N	917	GLN
3	N	976	GLN
3	N	994	GLN
3	N	1033	GLN
3	N	1103	HIS
3	N	1116	ASN
3	N	1202	GLN
3	N	1242	HIS
3	N	1323	GLN
3	N	1334	GLN
3	N	1353	GLN
3	N	1359	GLN
3	N	1393	GLN
3	N	1404	ASN
3	N	1441	GLN
3	N	1465	ASN
3	N	1485	GLN
4	O	28	GLN
4	O	29	GLN
4	O	59	ASN
4	O	86	GLN
5	P	83	GLN
5	P	90	GLN
5	P	161	GLN
5	P	185	GLN
5	P	191	ASN
5	P	245	GLN
5	P	269	ASN
5	P	279	GLN
5	P	312	GLN
5	P	337	HIS
5	P	399	GLN
5	P	402	ASN

5.3.3 RNA ⓘ

There are no RNA chains 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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 493 ligands modelled in this entry, 491 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
7	RPT	C	8001	-	68,68,68	2.84	24 (35%)	101,101,101	1.34	13 (12%)
7	RPT	M	8002	-	68,68,68	2.90	24 (35%)	101,101,101	1.33	10 (9%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
7	RPT	C	8001	-	-	0/64/96/96	0/2/6/6
7	RPT	M	8002	-	-	0/64/96/96	0/2/6/6

All (48) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	8002	RPT	C2-C1	9.66	1.52	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	C	8001	RPT	C2-C1	8.35	1.50	1.38
7	C	8001	RPT	O5-C29	8.18	1.55	1.39
7	M	8002	RPT	O5-C29	8.00	1.54	1.39
7	C	8001	RPT	O6-C27	7.13	1.58	1.43
7	M	8002	RPT	C8-C9	6.09	1.58	1.43
7	C	8001	RPT	C8-C9	6.05	1.57	1.43
7	M	8002	RPT	C39-N4	6.01	1.59	1.47
7	M	8002	RPT	C42-N4	5.89	1.59	1.47
7	M	8002	RPT	O6-C27	5.68	1.55	1.43
7	M	8002	RPT	O5-C12	5.60	1.58	1.41
7	C	8001	RPT	C3-C4	5.56	1.48	1.40
7	C	8001	RPT	O5-C12	5.37	1.57	1.41
7	M	8002	RPT	C8-C7	5.14	1.53	1.40
7	C	8001	RPT	C8-C7	4.97	1.52	1.40
7	C	8001	RPT	C42-N4	4.77	1.57	1.47
7	C	8001	RPT	C39-N4	4.65	1.57	1.47
7	M	8002	RPT	C38-N4	4.63	1.60	1.48
7	M	8002	RPT	C5-C10	4.42	1.53	1.43
7	C	8001	RPT	C5-C10	4.36	1.53	1.43
7	M	8002	RPT	C3-C4	4.32	1.46	1.40
7	C	8001	RPT	C10-C9	4.27	1.54	1.42
7	M	8002	RPT	C10-C9	4.00	1.54	1.42
7	C	8001	RPT	C24-C25	3.87	1.63	1.54
7	M	8002	RPT	C24-C25	3.71	1.62	1.54
7	M	8002	RPT	C1-C9	3.55	1.51	1.43
7	M	8002	RPT	C40-N3	3.55	1.54	1.46
7	C	8001	RPT	C1-C9	3.46	1.51	1.43
7	C	8001	RPT	C40-N3	3.01	1.52	1.46
7	C	8001	RPT	O4-C11	2.88	1.27	1.22
7	M	8002	RPT	C3-C2	2.84	1.48	1.41
7	C	8001	RPT	C38-N4	2.77	1.55	1.48
7	C	8001	RPT	C3-C43	2.64	1.51	1.46
7	M	8002	RPT	C27-C28	2.59	1.59	1.50
7	C	8001	RPT	O7-C25	2.56	1.48	1.44
7	C	8001	RPT	C26-C27	2.55	1.60	1.53
7	M	8002	RPT	C3-C43	2.50	1.51	1.46
7	C	8001	RPT	C27-C28	2.50	1.59	1.50
7	C	8001	RPT	C45-C38	2.49	1.59	1.53
7	M	8002	RPT	C26-C27	2.42	1.59	1.53
7	M	8002	RPT	O4-C11	2.41	1.26	1.22
7	C	8001	RPT	C41-N3	2.31	1.51	1.46
7	M	8002	RPT	C41-N3	2.28	1.51	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	M	8002	RPT	O2-C8	-2.27	1.28	1.35
7	C	8001	RPT	C43-N2	2.24	1.32	1.28
7	M	8002	RPT	C6-C7	2.19	1.42	1.39
7	C	8001	RPT	C3-C2	2.15	1.46	1.41
7	M	8002	RPT	C32-C22	2.10	1.58	1.53

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	C	8001	RPT	C2-N1-C15	4.96	134.26	123.69
7	M	8002	RPT	C2-N1-C15	4.40	133.05	123.69
7	M	8002	RPT	C20-C21-C22	4.22	121.58	114.50
7	M	8002	RPT	C24-C23-C22	4.16	121.68	115.35
7	C	8001	RPT	C20-C21-C22	3.97	121.16	114.50
7	C	8001	RPT	C24-C23-C22	3.67	120.92	115.35
7	C	8001	RPT	C25-O7-C35	3.14	122.72	117.71
7	M	8002	RPT	C31-C20-C19	-2.93	103.02	110.05
7	M	8002	RPT	C34-C26-C25	-2.87	105.97	111.46
7	C	8001	RPT	C31-C20-C19	-2.75	103.44	110.05
7	M	8002	RPT	C25-O7-C35	2.56	121.81	117.71
7	M	8002	RPT	C4-C3-C43	-2.51	115.16	119.69
7	C	8001	RPT	C3-C2-N1	-2.47	114.84	121.11
7	C	8001	RPT	C1-C2-N1	2.43	123.80	117.93
7	C	8001	RPT	C12-O5-C29	2.39	123.22	117.01
7	M	8002	RPT	C1-C2-N1	2.31	123.52	117.93
7	C	8001	RPT	C26-C27-C28	2.31	117.54	111.97
7	C	8001	RPT	C34-C26-C25	-2.24	107.18	111.46
7	C	8001	RPT	C3-C43-N2	2.20	124.47	120.94
7	C	8001	RPT	C37-O6-C27	2.09	117.78	113.35
7	M	8002	RPT	C32-C22-C23	-2.07	106.97	111.18
7	M	8002	RPT	C3-C2-N1	-2.06	115.88	121.11
7	C	8001	RPT	O11-C15-N1	2.05	128.01	123.81

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	229/315 (72%)	-0.16	1 (0%) 90 92	27, 63, 91, 115	0
1	B	229/315 (72%)	0.03	12 (5%) 26 27	48, 93, 115, 119	0
1	K	229/315 (72%)	-0.14	2 (0%) 81 82	34, 65, 94, 134	0
1	L	229/315 (72%)	-0.07	7 (3%) 47 48	52, 92, 110, 131	0
2	C	1119/1119 (100%)	-0.20	14 (1%) 74 76	21, 75, 106, 118	0
2	M	1119/1119 (100%)	-0.16	17 (1%) 70 72	25, 79, 109, 122	0
3	D	1392/1524 (91%)	-0.13	26 (1%) 64 66	24, 65, 112, 132	0
3	N	1392/1524 (91%)	-0.11	33 (2%) 56 58	25, 69, 117, 138	0
4	E	95/99 (95%)	-0.13	5 (5%) 25 26	42, 83, 108, 126	0
4	O	95/99 (95%)	-0.24	1 (1%) 77 79	46, 80, 107, 114	0
5	F	345/423 (81%)	-0.22	6 (1%) 67 69	49, 84, 110, 127	0
5	P	345/423 (81%)	-0.14	8 (2%) 57 60	63, 89, 114, 124	0
All	All	6818/7590 (89%)	-0.14	132 (1%) 65 66	21, 75, 112, 138	0

All (132) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	N	802	ALA	7.3
3	D	1240	THR	6.4
3	N	1249	ALA	5.3
2	C	180	GLY	5.2
3	N	1243	THR	5.1
3	D	439	LEU	5.0
3	D	1245	GLY	4.9
4	E	85	LEU	4.9
1	L	1	MET	4.9
1	L	6	LEU	4.8
1	K	1	MET	4.7

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Mol	Chain	Res	Type	RSRZ
3	N	1248	GLY	4.5
1	K	2	LEU	4.4
3	D	1247	ALA	4.4
5	F	145	PRO	4.3
1	B	129	ILE	4.2
2	C	813	VAL	4.2
2	C	311	PHE	4.2
3	N	371	ILE	4.1
3	D	444	VAL	3.9
3	D	247	GLU	3.9
5	P	145	PRO	3.9
3	D	1242	HIS	3.9
5	F	291	ILE	3.8
3	N	1242	HIS	3.8
3	D	177	ALA	3.8
1	B	58	ILE	3.8
3	N	1246	VAL	3.7
2	M	98	LEU	3.7
1	B	130	ALA	3.7
3	N	177	ALA	3.7
1	B	82	LEU	3.7
3	N	230	TRP	3.6
3	D	388	HIS	3.6
3	N	1408	ILE	3.4
2	C	153	ALA	3.4
3	D	1243	THR	3.4
3	N	1398	TRP	3.4
2	C	307	LEU	3.4
3	D	1251	ASP	3.4
2	M	100	LEU	3.3
3	D	228	ALA	3.3
3	N	179	VAL	3.3
2	M	211	LEU	3.3
2	M	281	LEU	3.2
3	D	407	VAL	3.1
3	N	836	VAL	3.1
4	E	93	TYR	3.0
3	N	403	PHE	3.0
3	N	1325	LEU	3.0
2	M	186	VAL	2.9
5	P	163	LEU	2.9
1	B	6	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
3	N	202	VAL	2.9
3	N	1240	THR	2.9
5	P	365	GLU	2.8
2	C	154	ARG	2.8
3	N	401	TYR	2.8
2	C	152	PRO	2.8
3	D	802	ALA	2.8
2	C	362	GLY	2.8
3	N	1407	LEU	2.8
1	L	68	ILE	2.8
1	B	92	PRO	2.8
1	A	1	MET	2.7
1	L	135	GLY	2.7
2	C	281	LEU	2.7
4	E	79	LEU	2.7
5	F	147	LEU	2.7
3	D	1408	ILE	2.7
3	N	407	VAL	2.7
3	N	381	ALA	2.7
2	C	776	SER	2.6
3	D	1241	PHE	2.6
1	L	130	ALA	2.6
3	D	128	TYR	2.6
5	P	144	ILE	2.6
3	N	394	LEU	2.6
5	P	357	ALA	2.5
3	D	803	GLY	2.5
3	N	205	TYR	2.5
2	M	372	LEU	2.5
4	E	95	GLY	2.5
3	D	384	VAL	2.5
5	F	311	ALA	2.5
3	N	251	PHE	2.5
1	B	120	VAL	2.4
2	M	644	VAL	2.4
2	M	105	THR	2.4
2	C	372	LEU	2.4
2	M	307	LEU	2.4
3	N	803	GLY	2.4
2	M	246	ASP	2.4
5	F	144	ILE	2.4
2	C	819	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
3	D	242	LEU	2.4
5	F	371	LEU	2.4
5	P	90	GLN	2.4
1	B	62	LEU	2.4
2	M	196	LEU	2.4
2	C	765	SER	2.3
3	D	215	TYR	2.3
3	D	77	GLY	2.3
3	N	248	PRO	2.3
4	E	80	VAL	2.3
3	N	137	PRO	2.3
2	M	245	GLY	2.3
1	B	109	VAL	2.3
4	O	39	VAL	2.3
2	M	255	ALA	2.3
1	B	70	GLY	2.2
1	B	71	VAL	2.2
3	D	202	VAL	2.2
3	N	184	GLU	2.2
2	M	180	GLY	2.2
3	N	418	GLY	2.1
3	D	251	PHE	2.1
1	L	122	ILE	2.1
3	N	1247	ALA	2.1
2	M	483	VAL	2.1
2	M	819	VAL	2.1
3	N	1387	SER	2.1
2	C	293	PHE	2.1
1	B	61	VAL	2.0
1	L	2	LEU	2.0
5	P	369	LEU	2.0
3	D	204	LEU	2.0
3	N	229	ALA	2.0
3	N	225	LEU	2.0
2	M	101	ILE	2.0
5	P	127	ILE	2.0
3	D	1413	THR	2.0

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

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

6.3 Carbohydrates

There are no carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
6	MG	C	9067	1/1	0.17	39.00	57,57,57,57	0
6	MG	N	9217	1/1	0.16	32.33	48,48,48,48	0
6	MG	B	9056	1/1	0.14	23.40	43,43,43,43	0
6	MG	D	9373	1/1	0.14	10.00	51,51,51,51	0
6	MG	C	9025	1/1	0.14	8.49	39,39,39,39	0
6	MG	A	9384	1/1	0.16	5.74	39,39,39,39	0
6	MG	M	9190	1/1	0.16	5.50	29,29,29,29	0
6	MG	L	9306	1/1	0.12	5.29	57,57,57,57	0
6	MG	A	9043	1/1	0.17	4.22	37,37,37,37	0
6	MG	N	9192	1/1	0.12	3.88	62,62,62,62	0
6	MG	N	9253	1/1	0.12	3.54	42,42,42,42	0
7	RPT	C	8001	63/63	0.23	3.53	26,40,66,82	0
6	MG	M	9416	1/1	0.12	3.43	45,45,45,45	0
6	MG	N	9193	1/1	0.15	3.43	34,34,34,34	0
6	MG	N	9444	1/1	0.15	3.20	49,49,49,49	0
6	MG	D	9064	1/1	0.15	3.00	44,44,44,44	0
6	MG	F	9376	1/1	0.20	2.77	62,62,62,62	0
6	MG	B	9040	1/1	0.17	2.59	36,36,36,36	0
6	MG	O	9198	1/1	0.12	2.50	36,36,36,36	0
6	MG	N	9267	1/1	0.12	2.29	42,42,42,42	0
7	RPT	M	8002	63/63	0.22	2.26	33,45,55,57	0
6	MG	F	9159	1/1	0.15	2.23	57,57,57,57	0
6	MG	D	9006	1/1	0.12	2.00	40,40,40,40	0
8	ZN	N	7059	1/1	0.13	1.89	93,93,93,93	0
6	MG	D	9023	1/1	0.14	1.80	34,34,34,34	0
8	ZN	N	7113	1/1	0.13	1.62	84,84,84,84	0
6	MG	P	9209	1/1	0.15	1.51	46,46,46,46	0
6	MG	A	9016	1/1	0.16	1.46	36,36,36,36	0
6	MG	L	9289	1/1	0.15	1.46	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	M	9256	1/1	0.18	1.32	56,56,56,56	0
6	MG	C	9086	1/1	0.14	1.31	39,39,39,39	0
6	MG	B	9136	1/1	0.12	1.22	47,47,47,47	0
6	MG	P	9235	1/1	0.16	1.12	40,40,40,40	0
6	MG	D	9140	1/1	0.14	1.00	40,40,40,40	0
6	MG	N	9259	1/1	0.15	0.95	34,34,34,34	0
6	MG	C	9360	1/1	0.13	0.94	53,53,53,53	0
6	MG	A	9368	1/1	0.15	0.88	43,43,43,43	0
6	MG	D	9041	1/1	0.14	0.86	47,47,47,47	0
6	MG	B	9093	1/1	0.15	0.81	40,40,40,40	0
6	MG	D	9084	1/1	0.11	0.71	37,37,37,37	0
6	MG	N	9199	1/1	0.11	0.70	35,35,35,35	0
6	MG	L	9309	1/1	0.15	0.67	49,49,49,49	0
6	MG	M	9260	1/1	0.13	0.64	36,36,36,36	0
6	MG	M	9321	1/1	0.13	0.58	41,41,41,41	0
6	MG	M	9241	1/1	0.12	0.53	36,36,36,36	0
6	MG	P	9258	1/1	0.14	0.53	51,51,51,51	0
6	MG	D	9095	1/1	0.15	0.52	30,30,30,30	0
6	MG	C	9169	1/1	0.15	0.48	42,42,42,42	0
6	MG	M	9312	1/1	0.13	0.45	37,37,37,37	0
6	MG	C	9071	1/1	0.12	0.44	42,42,42,42	0
6	MG	P	9202	1/1	0.11	0.41	49,49,49,49	0
6	MG	M	9210	1/1	0.13	0.40	41,41,41,41	0
6	MG	N	9181	1/1	0.16	0.38	47,47,47,47	0
6	MG	K	9191	1/1	0.16	0.36	32,32,32,32	0
6	MG	M	9400	1/1	0.14	0.36	40,40,40,40	0
6	MG	A	9002	1/1	0.17	0.34	31,31,31,31	0
6	MG	D	9011	1/1	0.13	0.33	33,33,33,33	0
6	MG	C	9022	1/1	0.13	0.31	37,37,37,37	0
6	MG	N	9473	1/1	0.14	0.26	51,51,51,51	0
6	MG	L	9183	1/1	0.14	0.26	37,37,37,37	0
6	MG	N	9221	1/1	0.13	0.26	44,44,44,44	0
6	MG	C	9049	1/1	0.12	0.25	46,46,46,46	0
6	MG	D	9453	1/1	0.12	0.21	38,38,38,38	0
6	MG	C	9112	1/1	0.12	0.18	39,39,39,39	0
6	MG	C	9003	1/1	0.14	0.15	38,38,38,38	0
6	MG	D	9024	1/1	0.14	0.14	36,36,36,36	0
6	MG	N	9207	1/1	0.14	0.13	41,41,41,41	0
6	MG	D	9146	1/1	0.11	0.12	31,31,31,31	0
6	MG	M	9220	1/1	0.12	0.11	51,51,51,51	0
6	MG	K	9410	1/1	0.16	0.09	36,36,36,36	0
6	MG	N	9206	1/1	0.16	0.07	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	M	9407	1/1	0.15	0.06	35,35,35,35	0
6	MG	B	9033	1/1	0.14	0.05	33,33,33,33	0
6	MG	F	9375	1/1	0.14	0.02	36,36,36,36	0
6	MG	D	9038	1/1	0.14	0.02	39,39,39,39	0
6	MG	N	9215	1/1	0.13	0.01	32,32,32,32	0
6	MG	N	9398	1/1	0.15	-0.02	48,48,48,48	0
6	MG	N	9233	1/1	0.15	-0.04	62,62,62,62	0
6	MG	N	9293	1/1	0.17	-0.05	42,42,42,42	0
6	MG	D	9349	1/1	0.14	-0.08	33,33,33,33	0
6	MG	B	9103	1/1	0.13	-0.14	43,43,43,43	0
6	MG	C	9455	1/1	0.12	-0.14	40,40,40,40	0
6	MG	A	9075	1/1	0.12	-0.15	36,36,36,36	0
6	MG	C	9050	1/1	0.16	-0.19	37,37,37,37	0
6	MG	D	9330	1/1	0.14	-0.20	39,39,39,39	0
6	MG	A	9013	1/1	0.12	-0.21	44,44,44,44	0
6	MG	N	9288	1/1	0.10	-0.24	49,49,49,49	0
6	MG	C	9076	1/1	0.13	-0.24	33,33,33,33	0
6	MG	K	9301	1/1	0.14	-0.24	43,43,43,43	0
6	MG	F	9356	1/1	0.15	-0.31	37,37,37,37	0
6	MG	D	9029	1/1	0.12	-0.32	33,33,33,33	0
6	MG	C	9051	1/1	0.13	-0.32	37,37,37,37	0
6	MG	N	9322	1/1	0.11	-0.33	54,54,54,54	0
6	MG	N	9418	1/1	0.11	-0.34	49,49,49,49	0
6	MG	B	9104	1/1	0.11	-0.35	45,45,45,45	0
8	ZN	D	7112	1/1	0.11	-0.35	80,80,80,80	0
6	MG	D	9328	1/1	0.12	-0.35	30,30,30,30	0
6	MG	D	9158	1/1	0.13	-0.36	60,60,60,60	0
6	MG	A	9068	1/1	0.13	-0.38	39,39,39,39	0
6	MG	N	9185	1/1	0.17	-0.38	56,56,56,56	0
6	MG	F	9105	1/1	0.14	-0.39	36,36,36,36	0
6	MG	A	9010	1/1	0.13	-0.39	30,30,30,30	0
6	MG	D	9072	1/1	0.14	-0.40	32,32,32,32	0
6	MG	F	9148	1/1	0.09	-0.41	54,54,54,54	0
6	MG	N	9231	1/1	0.11	-0.42	52,52,52,52	0
6	MG	N	9179	1/1	0.13	-0.43	33,33,33,33	0
6	MG	M	9452	1/1	0.13	-0.43	42,42,42,42	0
6	MG	E	9007	1/1	0.11	-0.45	40,40,40,40	0
6	MG	C	9026	1/1	0.14	-0.46	42,42,42,42	0
6	MG	M	9242	1/1	0.12	-0.46	35,35,35,35	0
6	MG	C	9019	1/1	0.14	-0.48	57,57,57,57	0
6	MG	M	9320	1/1	0.11	-0.49	34,34,34,34	0
6	MG	E	9045	1/1	0.13	-0.53	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(Å ²)	Q<0.9
6	MG	C	9143	1/1	0.11	-0.53	35,35,35,35	0
6	MG	D	9133	1/1	0.13	-0.53	42,42,42,42	0
6	MG	N	9240	1/1	0.14	-0.57	46,46,46,46	0
6	MG	P	9189	1/1	0.12	-0.58	49,49,49,49	0
6	MG	M	9208	1/1	0.10	-0.58	39,39,39,39	0
6	MG	F	9123	1/1	0.10	-0.60	37,37,37,37	0
6	MG	K	9432	1/1	0.15	-0.66	49,49,49,49	0
6	MG	A	9106	1/1	0.13	-0.67	38,38,38,38	0
6	MG	N	9302	1/1	0.10	-0.68	31,31,31,31	0
6	MG	M	9275	1/1	0.14	-0.68	55,55,55,55	0
6	MG	D	9127	1/1	0.14	-0.69	48,48,48,48	0
6	MG	M	9205	1/1	0.12	-0.70	38,38,38,38	0
6	MG	M	9247	1/1	0.08	-0.70	51,51,51,51	0
6	MG	M	9295	1/1	0.08	-0.70	42,42,42,42	0
6	MG	C	9065	1/1	0.10	-0.71	37,37,37,37	0
6	MG	D	9018	1/1	0.11	-0.73	39,39,39,39	0
6	MG	C	9145	1/1	0.13	-0.74	66,66,66,66	0
6	MG	N	9445	1/1	0.10	-0.74	51,51,51,51	0
6	MG	M	9224	1/1	0.13	-0.77	40,40,40,40	0
6	MG	M	9219	1/1	0.10	-0.78	47,47,47,47	0
6	MG	D	9329	1/1	0.12	-0.79	33,33,33,33	0
6	MG	D	9174	1/1	0.12	-0.79	47,47,47,47	0
6	MG	P	9277	1/1	0.11	-0.80	41,41,41,41	0
6	MG	D	9005	1/1	0.12	-0.82	40,40,40,40	0
6	MG	P	9280	1/1	0.10	-0.82	51,51,51,51	0
6	MG	M	9319	1/1	0.12	-0.82	41,41,41,41	0
6	MG	D	9121	1/1	0.10	-0.83	35,35,35,35	0
6	MG	F	9035	1/1	0.11	-0.83	40,40,40,40	0
6	MG	M	9434	1/1	0.11	-0.84	34,34,34,34	0
6	MG	A	9380	1/1	0.11	-0.85	44,44,44,44	0
6	MG	F	9393	1/1	0.12	-0.86	38,38,38,38	0
6	MG	C	9031	1/1	0.11	-0.87	40,40,40,40	0
6	MG	D	9014	1/1	0.10	-0.87	41,41,41,41	0
6	MG	L	9252	1/1	0.09	-0.88	45,45,45,45	0
6	MG	D	9113	1/1	0.11	-0.88	34,34,34,34	0
6	MG	M	9261	1/1	0.12	-0.88	47,47,47,47	0
6	MG	N	9431	1/1	0.12	-0.89	39,39,39,39	0
6	MG	P	9399	1/1	0.12	-0.90	34,34,34,34	0
6	MG	C	9053	1/1	0.13	-0.90	30,30,30,30	0
6	MG	D	9073	1/1	0.12	-0.90	34,34,34,34	0
6	MG	N	9236	1/1	0.10	-0.90	39,39,39,39	0
6	MG	M	9203	1/1	0.11	-0.91	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	N	9184	1/1	0.10	-0.94	29,29,29,29	0
6	MG	N	9200	1/1	0.10	-0.97	38,38,38,38	0
6	MG	C	9107	1/1	0.09	-0.98	42,42,42,42	0
6	MG	D	9028	1/1	0.13	-0.99	34,34,34,34	0
6	MG	A	9012	1/1	0.11	-0.99	47,47,47,47	0
6	MG	L	9218	1/1	0.10	-1.00	33,33,33,33	0
6	MG	C	9394	1/1	0.10	-1.08	33,33,33,33	0
6	MG	M	9196	1/1	0.09	-1.10	42,42,42,42	0
6	MG	A	9111	1/1	0.11	-1.10	35,35,35,35	0
6	MG	E	9074	1/1	0.09	-1.13	59,59,59,59	0
6	MG	D	9347	1/1	0.10	-1.14	49,49,49,49	0
6	MG	N	9402	1/1	0.08	-1.16	45,45,45,45	0
6	MG	M	9440	1/1	0.11	-1.16	50,50,50,50	0
6	MG	C	9046	1/1	0.12	-1.17	38,38,38,38	0
6	MG	C	9176	1/1	0.09	-1.17	28,28,28,28	0
6	MG	M	9486	1/1	0.09	-1.18	48,48,48,48	0
6	MG	D	9077	1/1	0.11	-1.21	35,35,35,35	0
6	MG	N	9232	1/1	0.09	-1.22	47,47,47,47	0
6	MG	C	9377	1/1	0.10	-1.22	44,44,44,44	0
6	MG	D	9118	1/1	0.12	-1.23	44,44,44,44	0
6	MG	M	9310	1/1	0.07	-1.24	46,46,46,46	0
6	MG	M	9201	1/1	0.10	-1.24	45,45,45,45	0
6	MG	F	9370	1/1	0.09	-1.25	46,46,46,46	0
6	MG	K	9251	1/1	0.12	-1.25	43,43,43,43	0
6	MG	N	9417	1/1	0.10	-1.26	39,39,39,39	0
6	MG	D	9341	1/1	0.10	-1.29	41,41,41,41	0
6	MG	N	9318	1/1	0.12	-1.33	34,34,34,34	0
6	MG	D	9339	1/1	0.14	-1.34	37,37,37,37	0
6	MG	M	9442	1/1	0.08	-1.34	59,59,59,59	0
6	MG	F	9060	1/1	0.12	-1.34	41,41,41,41	0
6	MG	K	9213	1/1	0.11	-1.34	43,43,43,43	0
6	MG	B	9359	1/1	0.12	-1.37	52,52,52,52	0
6	MG	D	9062	1/1	0.07	-1.37	47,47,47,47	0
6	MG	D	9036	1/1	0.09	-1.39	44,44,44,44	0
6	MG	F	9008	1/1	0.09	-1.40	40,40,40,40	0
6	MG	N	9484	1/1	0.08	-1.42	37,37,37,37	0
6	MG	N	9249	1/1	0.10	-1.42	45,45,45,45	0
6	MG	F	9390	1/1	0.07	-1.43	46,46,46,46	0
6	MG	N	9317	1/1	0.10	-1.43	43,43,43,43	0
6	MG	D	9089	1/1	0.09	-1.44	36,36,36,36	0
6	MG	N	9426	1/1	0.10	-1.44	41,41,41,41	0
6	MG	F	9098	1/1	0.11	-1.44	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	F	9048	1/1	0.10	-1.44	41,41,41,41	0
6	MG	P	9228	1/1	0.09	-1.44	43,43,43,43	0
6	MG	N	9303	1/1	0.08	-1.45	54,54,54,54	0
6	MG	K	9180	1/1	0.11	-1.45	42,42,42,42	0
6	MG	D	9161	1/1	0.09	-1.46	57,57,57,57	0
6	MG	C	9020	1/1	0.10	-1.46	34,34,34,34	0
6	MG	B	9032	1/1	0.06	-1.46	34,34,34,34	0
6	MG	C	9178	1/1	0.09	-1.50	39,39,39,39	0
6	MG	C	9462	1/1	0.08	-1.53	43,43,43,43	0
6	MG	N	9316	1/1	0.08	-1.55	37,37,37,37	0
6	MG	D	9009	1/1	0.09	-1.56	43,43,43,43	0
6	MG	M	9300	1/1	0.10	-1.57	39,39,39,39	0
6	MG	D	9374	1/1	0.10	-1.60	41,41,41,41	0
6	MG	N	9238	1/1	0.11	-1.61	43,43,43,43	0
6	MG	F	9157	1/1	0.12	-1.63	42,42,42,42	0
6	MG	D	9069	1/1	0.13	-1.63	48,48,48,48	0
6	MG	D	9034	1/1	0.09	-1.65	41,41,41,41	0
8	ZN	D	7058	1/1	0.08	-1.66	106,106,106,106	0
6	MG	B	9358	1/1	0.08	-1.67	39,39,39,39	0
6	MG	B	9059	1/1	0.08	-1.67	48,48,48,48	0
6	MG	M	9411	1/1	0.10	-1.69	47,47,47,47	0
6	MG	D	9058	1/1	0.09	-1.71	38,38,38,38	0
6	MG	P	9255	1/1	0.13	-1.72	34,34,34,34	0
6	MG	C	9015	1/1	0.09	-1.72	38,38,38,38	0
6	MG	D	9351	1/1	0.07	-1.73	43,43,43,43	0
6	MG	A	9342	1/1	0.13	-1.75	39,39,39,39	0
6	MG	D	9147	1/1	0.10	-1.75	41,41,41,41	0
6	MG	N	9327	1/1	0.08	-1.75	40,40,40,40	0
6	MG	D	9001	1/1	0.10	-1.76	36,36,36,36	0
6	MG	N	9269	1/1	0.07	-1.83	42,42,42,42	0
6	MG	M	9409	1/1	0.11	-1.85	36,36,36,36	0
6	MG	D	9087	1/1	0.07	-1.86	43,43,43,43	0
6	MG	K	9188	1/1	0.12	-1.87	40,40,40,40	0
6	MG	F	9109	1/1	0.11	-1.88	60,60,60,60	0
6	MG	D	9137	1/1	0.08	-1.88	47,47,47,47	0
6	MG	M	9212	1/1	0.08	-1.89	32,32,32,32	0
6	MG	C	9115	1/1	0.12	-1.91	36,36,36,36	0
6	MG	M	9234	1/1	0.12	-1.93	53,53,53,53	0
6	MG	C	9042	1/1	0.07	-1.94	47,47,47,47	0
6	MG	M	9299	1/1	0.09	-1.94	43,43,43,43	0
6	MG	C	9092	1/1	0.06	-1.95	44,44,44,44	0
6	MG	D	9386	1/1	0.11	-1.96	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9102	1/1	0.14	-1.96	44,44,44,44	0
6	MG	D	9130	1/1	0.10	-1.96	51,51,51,51	0
6	MG	D	9120	1/1	0.09	-1.96	31,31,31,31	0
6	MG	M	9263	1/1	0.11	-1.98	56,56,56,56	0
6	MG	A	9354	1/1	0.09	-2.01	37,37,37,37	0
6	MG	D	9017	1/1	0.12	-2.02	42,42,42,42	0
6	MG	N	9323	1/1	0.10	-2.03	38,38,38,38	0
6	MG	N	9243	1/1	0.10	-2.04	35,35,35,35	0
6	MG	N	9292	1/1	0.13	-2.07	56,56,56,56	0
6	MG	K	9223	1/1	0.10	-2.11	32,32,32,32	0
6	MG	B	9131	1/1	0.09	-2.11	33,33,33,33	0
6	MG	D	9333	1/1	0.08	-2.13	33,33,33,33	0
6	MG	M	9268	1/1	0.10	-2.16	32,32,32,32	0
6	MG	C	9119	1/1	0.07	-2.17	43,43,43,43	0
6	MG	N	9186	1/1	0.12	-2.18	49,49,49,49	0
6	MG	D	9052	1/1	0.07	-2.20	65,65,65,65	0
6	MG	N	9467	1/1	0.12	-2.20	35,35,35,35	0
6	MG	M	9195	1/1	0.09	-2.23	34,34,34,34	0
6	MG	C	9061	1/1	0.07	-2.26	34,34,34,34	0
6	MG	C	9170	1/1	0.07	-2.27	41,41,41,41	0
6	MG	A	9125	1/1	0.13	-2.28	36,36,36,36	0
6	MG	D	9365	1/1	0.07	-2.28	41,41,41,41	0
6	MG	P	9226	1/1	0.08	-2.31	43,43,43,43	0
6	MG	A	9124	1/1	0.13	-2.33	39,39,39,39	0
6	MG	C	9138	1/1	0.09	-2.35	43,43,43,43	0
6	MG	A	9027	1/1	0.08	-2.36	37,37,37,37	0
6	MG	D	9054	1/1	0.07	-2.38	44,44,44,44	0
6	MG	N	9429	1/1	0.11	-2.39	45,45,45,45	0
6	MG	N	9415	1/1	0.08	-2.40	42,42,42,42	0
6	MG	A	9081	1/1	0.08	-2.45	40,40,40,40	0
6	MG	A	9332	1/1	0.07	-2.46	35,35,35,35	0
6	MG	N	9214	1/1	0.10	-2.47	33,33,33,33	0
6	MG	C	9154	1/1	0.08	-2.51	43,43,43,43	0
6	MG	M	9248	1/1	0.09	-2.52	48,48,48,48	0
6	MG	N	9229	1/1	0.07	-2.55	41,41,41,41	0
6	MG	M	9471	1/1	0.09	-2.57	47,47,47,47	0
6	MG	D	9166	1/1	0.09	-2.57	40,40,40,40	0
6	MG	F	9057	1/1	0.09	-2.58	30,30,30,30	0
6	MG	N	9287	1/1	0.10	-2.61	53,53,53,53	0
6	MG	K	9244	1/1	0.08	-2.61	44,44,44,44	0
6	MG	M	9250	1/1	0.08	-2.61	38,38,38,38	0
6	MG	N	9211	1/1	0.11	-2.62	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9379	1/1	0.11	-2.62	47,47,47,47	0
6	MG	B	9080	1/1	0.11	-2.63	56,56,56,56	0
6	MG	N	9262	1/1	0.10	-2.64	51,51,51,51	0
6	MG	N	9298	1/1	0.06	-2.74	55,55,55,55	0
6	MG	M	9239	1/1	0.07	-2.75	34,34,34,34	0
6	MG	D	9346	1/1	0.07	-2.75	47,47,47,47	0
6	MG	K	9264	1/1	0.08	-2.76	42,42,42,42	0
6	MG	M	9441	1/1	0.08	-2.78	45,45,45,45	0
6	MG	D	9141	1/1	0.06	-2.78	50,50,50,50	0
6	MG	P	9315	1/1	0.09	-2.80	35,35,35,35	0
6	MG	M	9401	1/1	0.11	-2.84	37,37,37,37	0
6	MG	N	9419	1/1	0.11	-2.87	51,51,51,51	0
6	MG	N	9271	1/1	0.08	-2.90	43,43,43,43	0
6	MG	D	9030	1/1	0.09	-2.96	48,48,48,48	0
6	MG	C	9122	1/1	0.11	-3.00	56,56,56,56	0
6	MG	D	9070	1/1	0.08	-3.03	33,33,33,33	0
6	MG	A	9156	1/1	0.08	-3.05	43,43,43,43	0
6	MG	P	9436	1/1	0.10	-3.09	49,49,49,49	0
6	MG	O	9266	1/1	0.08	-3.16	47,47,47,47	0
6	MG	L	9182	1/1	0.05	-3.24	47,47,47,47	0
6	MG	A	9088	1/1	0.07	-3.40	36,36,36,36	0
6	MG	M	9305	1/1	0.09	-3.45	46,46,46,46	0
6	MG	D	9367	1/1	0.06	-3.57	31,31,31,31	0
6	MG	C	9114	1/1	0.09	-3.60	30,30,30,30	0
6	MG	O	9197	1/1	0.05	-3.81	57,57,57,57	0
6	MG	L	9466	1/1	0.11	-3.83	49,49,49,49	0
6	MG	D	9165	1/1	0.08	-3.85	32,32,32,32	0
6	MG	C	9004	1/1	0.10	-3.86	39,39,39,39	0
6	MG	M	9324	1/1	0.08	-4.23	41,41,41,41	0
6	MG	D	9338	1/1	0.11	-4.44	42,42,42,42	0
6	MG	N	9270	1/1	0.05	-4.46	39,39,39,39	0
6	MG	C	9079	1/1	0.11	-5.00	38,38,38,38	0
6	MG	K	9433	1/1	0.08	-5.86	50,50,50,50	0
6	MG	P	9285	1/1	0.09	-5.89	56,56,56,56	0
6	MG	C	9391	1/1	0.07	-6.27	60,60,60,60	0
6	MG	N	9465	1/1	0.10	-6.67	49,49,49,49	0
6	MG	L	9314	1/1	0.08	-6.76	56,56,56,56	0
6	MG	D	9100	1/1	0.09	-7.47	43,43,43,43	0
6	MG	C	9021	1/1	0.10	-9.67	37,37,37,37	0
6	MG	N	9430	1/1	0.09	-17.91	57,57,57,57	0
6	MG	P	9297	1/1	0.10	-20.75	45,45,45,45	0
6	MG	O	9420	1/1	0.10	-24.60	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	A	9352	1/1	0.11	-32.00	46,46,46,46	0
6	MG	N	9451	1/1	0.06	-44.50	41,41,41,41	0
6	MG	M	9447	1/1	0.07	-46.67	64,64,64,64	0
6	MG	M	9294	1/1	0.10	-291.00	52,52,52,52	0
6	MG	C	9340	1/1	0.10	-	60,60,60,60	0
6	MG	C	9355	1/1	0.13	-	58,58,58,58	0
6	MG	L	9437	1/1	0.07	-	40,40,40,40	0
6	MG	F	9139	1/1	0.11	-	38,38,38,38	0
6	MG	M	9237	1/1	0.17	-	52,52,52,52	0
6	MG	F	9387	1/1	0.12	-	53,53,53,53	0
6	MG	D	9335	1/1	0.06	-	52,52,52,52	0
6	MG	C	9461	1/1	0.08	-	50,50,50,50	0
6	MG	D	9480	1/1	0.12	-	55,55,55,55	0
6	MG	F	9363	1/1	0.13	-	53,53,53,53	0
6	MG	N	9449	1/1	0.09	-	51,51,51,51	0
6	MG	N	9468	1/1	0.11	-	55,55,55,55	0
6	MG	L	9421	1/1	0.13	-	53,53,53,53	0
6	MG	D	9173	1/1	0.09	-	48,48,48,48	0
6	MG	C	9372	1/1	0.09	-	61,61,61,61	0
6	MG	B	9083	1/1	0.15	-	40,40,40,40	0
6	MG	B	9110	1/1	0.14	-	49,49,49,49	0
6	MG	D	9396	1/1	0.11	-	62,62,62,62	0
6	MG	A	9345	1/1	0.13	-	41,41,41,41	0
6	MG	D	9039	1/1	0.12	-	44,44,44,44	0
6	MG	C	9142	1/1	0.15	-	48,48,48,48	0
6	MG	D	9134	1/1	0.15	-	47,47,47,47	0
6	MG	D	9364	1/1	0.14	-	47,47,47,47	0
6	MG	L	9414	1/1	0.14	-	51,51,51,51	0
6	MG	F	9172	1/1	0.11	-	51,51,51,51	0
6	MG	F	9101	1/1	0.13	-	44,44,44,44	0
6	MG	B	9116	1/1	0.11	-	38,38,38,38	0
6	MG	D	9132	1/1	0.10	-	43,43,43,43	0
6	MG	K	9290	1/1	0.12	-	51,51,51,51	0
6	MG	D	9108	1/1	0.15	-	51,51,51,51	0
6	MG	N	9204	1/1	0.20	-	44,44,44,44	0
6	MG	D	9334	1/1	0.12	-	54,54,54,54	0
6	MG	M	9227	1/1	0.13	-	35,35,35,35	0
6	MG	D	9348	1/1	0.15	-	57,57,57,57	0
6	MG	L	9246	1/1	0.13	-	52,52,52,52	0
6	MG	M	9222	1/1	0.11	-	35,35,35,35	0
6	MG	A	9357	1/1	0.12	-	54,54,54,54	0
6	MG	L	9278	1/1	0.12	-	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	M	9412	1/1	0.14	-	43,43,43,43	0
6	MG	D	9456	1/1	0.12	-	55,55,55,55	0
6	MG	N	9274	1/1	0.19	-	40,40,40,40	0
6	MG	C	9160	1/1	0.10	-	44,44,44,44	0
6	MG	D	9385	1/1	0.14	-	35,35,35,35	0
6	MG	C	9044	1/1	0.16	-	34,34,34,34	0
6	MG	C	9090	1/1	0.11	-	47,47,47,47	0
6	MG	D	9063	1/1	0.09	-	33,33,33,33	0
6	MG	N	9187	1/1	0.18	-	33,33,33,33	0
6	MG	D	9129	1/1	0.15	-	42,42,42,42	0
6	MG	L	9245	1/1	0.10	-	62,62,62,62	0
6	MG	O	9296	1/1	0.13	-	42,42,42,42	0
6	MG	L	9307	1/1	0.11	-	35,35,35,35	0
6	MG	M	9424	1/1	0.14	-	34,34,34,34	0
6	MG	F	9383	1/1	0.11	-	48,48,48,48	0
6	MG	K	9405	1/1	0.13	-	56,56,56,56	0
6	MG	P	9325	1/1	0.13	-	49,49,49,49	0
6	MG	P	9482	1/1	0.12	-	48,48,48,48	0
6	MG	D	9163	1/1	0.15	-	52,52,52,52	0
6	MG	K	9257	1/1	0.11	-	58,58,58,58	0
6	MG	O	9254	1/1	0.09	-	39,39,39,39	0
6	MG	L	9283	1/1	0.13	-	59,59,59,59	0
6	MG	N	9408	1/1	0.14	-	45,45,45,45	0
6	MG	M	9281	1/1	0.12	-	49,49,49,49	0
6	MG	M	9284	1/1	0.16	-	54,54,54,54	0
6	MG	A	9078	1/1	0.13	-	66,66,66,66	0
6	MG	N	9427	1/1	0.15	-	58,58,58,58	0
6	MG	D	9151	1/1	0.16	-	57,57,57,57	0
6	MG	C	9487	1/1	0.12	-	32,32,32,32	0
6	MG	C	9055	1/1	0.11	-	38,38,38,38	0
6	MG	N	9428	1/1	0.11	-	42,42,42,42	0
6	MG	C	9047	1/1	0.12	-	53,53,53,53	0
6	MG	D	9331	1/1	0.19	-	43,43,43,43	0
6	MG	N	9265	1/1	0.15	-	61,61,61,61	0
6	MG	D	9337	1/1	0.16	-	53,53,53,53	0
6	MG	N	9291	1/1	0.13	-	64,64,64,64	0
6	MG	K	9470	1/1	0.14	-	55,55,55,55	0
6	MG	A	9460	1/1	0.08	-	55,55,55,55	0
6	MG	C	9464	1/1	0.08	-	48,48,48,48	0
6	MG	C	9362	1/1	0.16	-	55,55,55,55	0
6	MG	B	9478	1/1	0.13	-	61,61,61,61	0
6	MG	D	9152	1/1	0.12	-	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	D	9085	1/1	0.20	-	49,49,49,49	0
6	MG	D	9459	1/1	0.06	-	54,54,54,54	0
6	MG	D	9117	1/1	0.13	-	48,48,48,48	0
6	MG	O	9483	1/1	0.10	-	63,63,63,63	0
6	MG	C	9037	1/1	0.18	-	51,51,51,51	0
6	MG	K	9438	1/1	0.11	-	52,52,52,52	0
6	MG	N	9311	1/1	0.11	-	39,39,39,39	0
6	MG	K	9413	1/1	0.11	-	54,54,54,54	0
6	MG	A	9477	1/1	0.18	-	52,52,52,52	0
6	MG	N	9435	1/1	0.25	-	53,53,53,53	0
6	MG	M	9273	1/1	0.14	-	44,44,44,44	0
6	MG	N	9472	1/1	0.17	-	56,56,56,56	0
6	MG	M	9474	1/1	0.14	-	49,49,49,49	0
6	MG	D	9388	1/1	0.10	-	37,37,37,37	0
6	MG	D	9096	1/1	0.16	-	60,60,60,60	0
6	MG	N	9404	1/1	0.13	-	55,55,55,55	0
6	MG	F	9389	1/1	0.11	-	53,53,53,53	0
6	MG	A	9153	1/1	0.16	-	66,66,66,66	0
6	MG	E	9155	1/1	0.16	-	44,44,44,44	0
6	MG	P	9216	1/1	0.14	-	48,48,48,48	0
6	MG	N	9313	1/1	0.11	-	43,43,43,43	0
6	MG	N	9448	1/1	0.10	-	51,51,51,51	0
6	MG	M	9272	1/1	0.17	-	45,45,45,45	0
6	MG	K	9469	1/1	0.13	-	50,50,50,50	0
6	MG	D	9344	1/1	0.13	-	55,55,55,55	0
6	MG	D	9336	1/1	0.11	-	53,53,53,53	0
6	MG	A	9171	1/1	0.12	-	58,58,58,58	0
6	MG	C	9463	1/1	0.10	-	55,55,55,55	0
6	MG	D	9135	1/1	0.14	-	50,50,50,50	0
6	MG	N	9308	1/1	0.16	-	55,55,55,55	0
6	MG	C	9149	1/1	0.17	-	48,48,48,48	0
6	MG	D	9091	1/1	0.13	-	27,27,27,27	0
6	MG	C	9361	1/1	0.12	-	41,41,41,41	0
6	MG	O	9439	1/1	0.18	-	56,56,56,56	0
6	MG	M	9406	1/1	0.17	-	67,67,67,67	0
6	MG	C	9162	1/1	0.14	-	50,50,50,50	0
6	MG	N	9423	1/1	0.18	-	58,58,58,58	0
6	MG	N	9476	1/1	0.10	-	54,54,54,54	0
6	MG	M	9485	1/1	0.08	-	54,54,54,54	0
6	MG	C	9381	1/1	0.09	-	53,53,53,53	0
6	MG	D	9150	1/1	0.15	-	31,31,31,31	0
6	MG	D	9343	1/1	0.11	-	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	N	9304	1/1	0.12	-	47,47,47,47	0
6	MG	D	9397	1/1	0.12	-	51,51,51,51	0
6	MG	D	9082	1/1	0.14	-	60,60,60,60	0
6	MG	N	9276	1/1	0.08	-	61,61,61,61	0
6	MG	B	9457	1/1	0.08	-	43,43,43,43	0
6	MG	D	9392	1/1	0.13	-	52,52,52,52	0
6	MG	A	9097	1/1	0.17	-	34,34,34,34	0
6	MG	M	9225	1/1	0.16	-	56,56,56,56	0
6	MG	C	9353	1/1	0.11	-	48,48,48,48	0
6	MG	C	9371	1/1	0.17	-	54,54,54,54	0
6	MG	C	9350	1/1	0.08	-	60,60,60,60	0
6	MG	N	9279	1/1	0.12	-	54,54,54,54	0
6	MG	C	9366	1/1	0.15	-	41,41,41,41	0
6	MG	C	9454	1/1	0.10	-	55,55,55,55	0
6	MG	C	9175	1/1	0.15	-	68,68,68,68	0
6	MG	N	9286	1/1	0.15	-	31,31,31,31	0
6	MG	B	9094	1/1	0.16	-	38,38,38,38	0
6	MG	N	9194	1/1	0.13	-	51,51,51,51	0
6	MG	F	9099	1/1	0.15	-	56,56,56,56	0
6	MG	M	9475	1/1	0.06	-	62,62,62,62	0
6	MG	B	9458	1/1	0.08	-	44,44,44,44	0
6	MG	N	9326	1/1	0.15	-	62,62,62,62	0
6	MG	C	9126	1/1	0.10	-	46,46,46,46	0
6	MG	A	9395	1/1	0.15	-	50,50,50,50	0
6	MG	N	9422	1/1	0.15	-	56,56,56,56	0
6	MG	D	9167	1/1	0.12	-	49,49,49,49	0
6	MG	C	9168	1/1	0.11	-	45,45,45,45	0
6	MG	D	9369	1/1	0.12	-	49,49,49,49	0
6	MG	P	9446	1/1	0.15	-	34,34,34,34	0
6	MG	N	9450	1/1	0.11	-	48,48,48,48	0
6	MG	F	9481	1/1	0.09	-	57,57,57,57	0
6	MG	N	9425	1/1	0.13	-	46,46,46,46	0
6	MG	E	9479	1/1	0.12	-	62,62,62,62	0
6	MG	N	9443	1/1	0.15	-	54,54,54,54	0
6	MG	N	9403	1/1	0.14	-	34,34,34,34	0
6	MG	F	9382	1/1	0.10	-	40,40,40,40	0
6	MG	D	9177	1/1	0.14	-	64,64,64,64	0
6	MG	C	9164	1/1	0.11	-	49,49,49,49	0
6	MG	B	9378	1/1	0.14	-	47,47,47,47	0
6	MG	D	9144	1/1	0.12	-	39,39,39,39	0
6	MG	P	9282	1/1	0.10	-	56,56,56,56	0
6	MG	A	9066	1/1	0.15	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	MG	C	9128	1/1	0.13	-	52,52,52,52	0
6	MG	M	9230	1/1	0.12	-	50,50,50,50	0

6.5 Other polymers ⓘ

There are no such residues in this entry.