



# Full wwPDB X-ray Structure Validation Report

Feb 26, 2014 – 07:22 PM GMT

PDB ID : 2BE5  
Title : Crystal structure of the T. Thermophilus RNA polymerase holoenzyme in complex with inhibitor tagetitoxin  
Authors : Vassylyev, D.G.; Svetlov, V.; Vassylyeva, M.N.; Perederina, A.; Igarashi, N.; Matsugaki, N.; Wakatsuki, S.; Artsimovitch, I.; RIKEN Structural Genomics/Proteomics Initiative (RSGI)  
Deposited on : 2005-10-22  
Resolution : 2.40 Å(reported)

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

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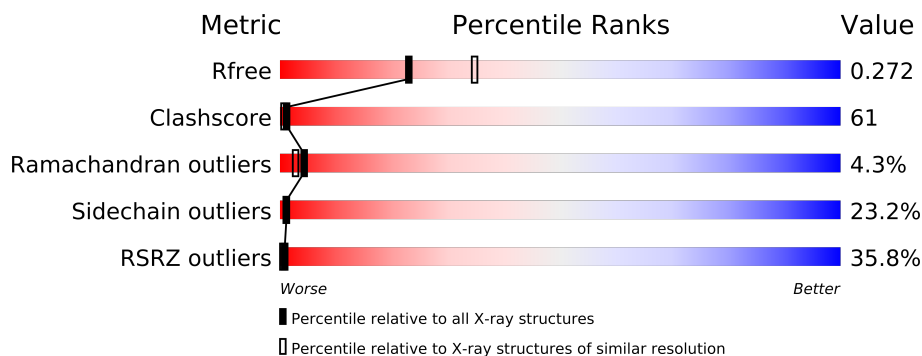
The following versions of software and data (see [references](#)) were used in the production of this report:

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 2.40 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	2207 (2.40-2.40)
Clashscore	79885	2789 (2.40-2.40)
Ramachandran outliers	78287	2736 (2.40-2.40)
Sidechain outliers	78261	2737 (2.40-2.40)
RSRZ outliers	66119	2210 (2.40-2.40)

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  $\geq 3$ , 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
8	TGT	N	9002	-	X

## 2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 61800 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			

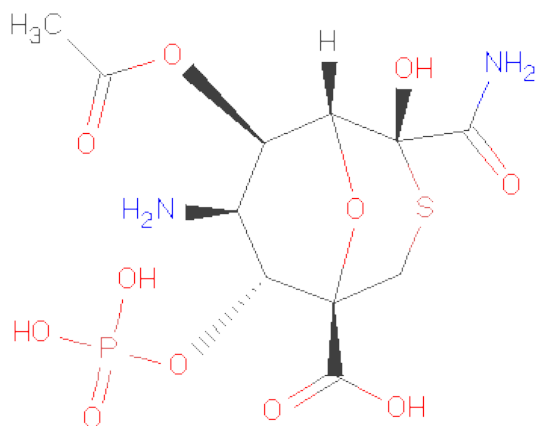
- Molecule 6 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	D	1	Total	Mg	0	0
			1	1		
6	C	1	Total	Mg	0	0
			1	1		
6	N	2	Total	Mg	0	0
			2	2		

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

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

- Molecule 8 is TAGETITOXIN (three-letter code: TGT) (formula: C<sub>11</sub>H<sub>17</sub>N<sub>2</sub>O<sub>11</sub>PS).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
8	D	1	Total	C	N	O	P	S	0	0
			26	11	2	11	1	1		
8	N	1	Total	C	N	O	P	S	0	0
			26	11	2	11	1	1		

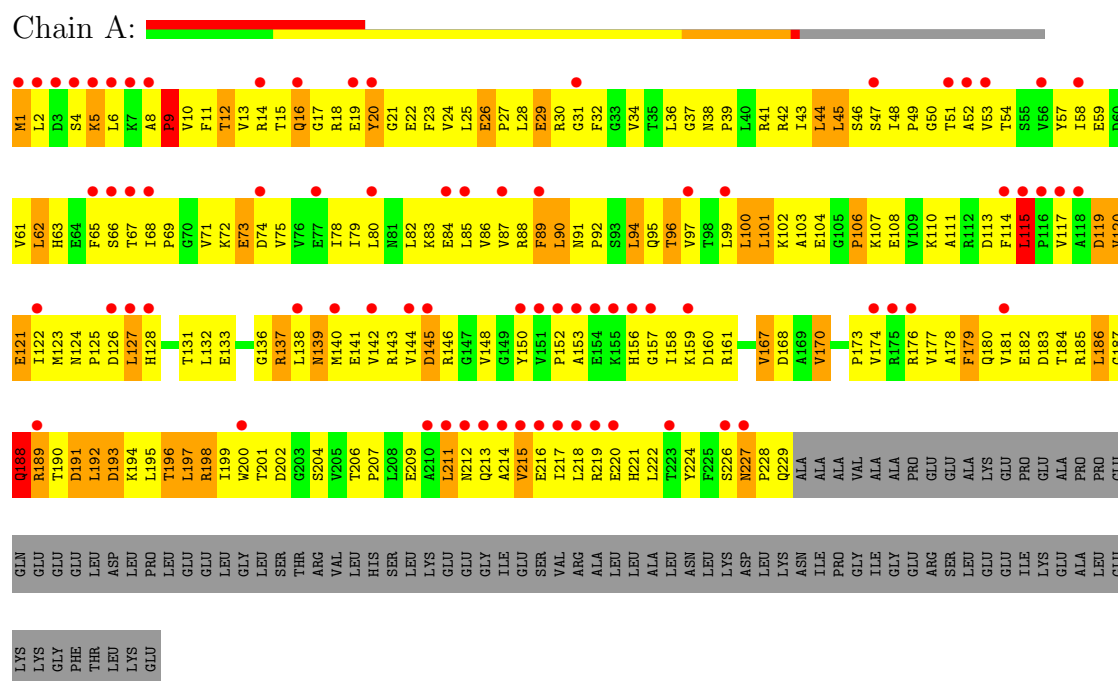
- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	A	250	Total	O	0	0
			250	250		
9	B	329	Total	O	0	0
			329	329		
9	C	1321	Total	O	0	0
			1321	1321		
9	D	1655	Total	O	0	0
			1655	1655		
9	E	176	Total	O	0	0
			176	176		
9	F	519	Total	O	0	0
			519	519		
9	K	278	Total	O	0	0
			278	278		
9	L	309	Total	O	0	0
			309	309		
9	M	1236	Total	O	0	0
			1236	1236		
9	N	1552	Total	O	0	0
			1552	1552		
9	O	137	Total	O	0	0
			137	137		
9	P	422	Total	O	0	0
			422	422		

### 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

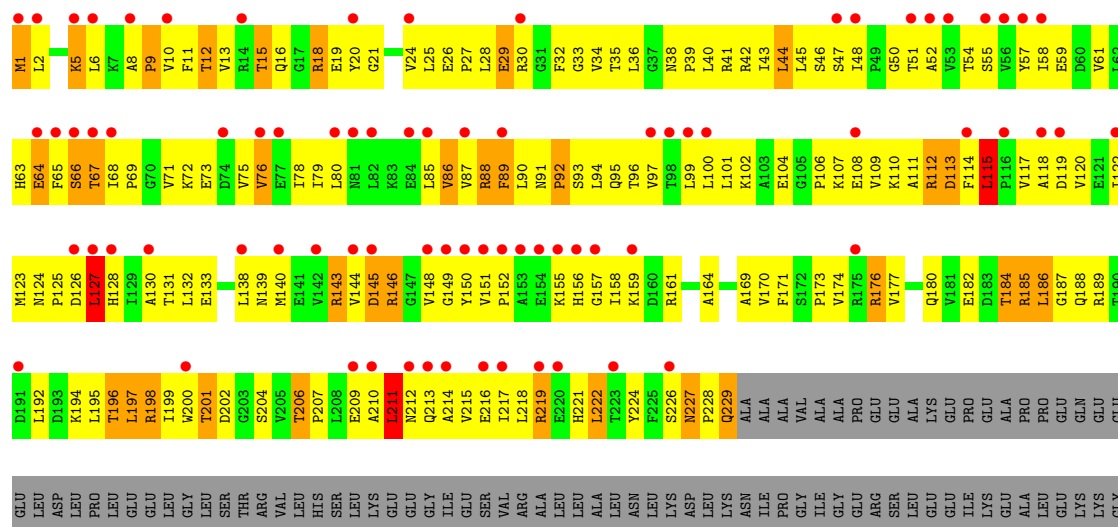


PRO  
LEU  
GLU  
GLU  
LEU  
LEU  
SER  
THR  
VAL  
LEU  
HIS  
SER  
LEU  
LYS  
GLU  
GLU  
GLY  
ILE  
GLU  
SER  
VAL  
ARG  
ALA  
LEU  
LEU  
ALA  
LEU  
ASN  
LEU  
LYS  
ASP  
LEU  
LYS  
ASN  
ILE  
PRO  
GLY  
ILE  
GLY  
GLU  
ARG  
SER  
LEU  
GLU  
ILE  
LYS  
GLU  
ALA  
LEU  
GLU  
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LYS  
GLY  
PHE  
THR  
LEU  
LYS

GLU

- Molecule 1: DNA-directed RNA polymerase alpha chain

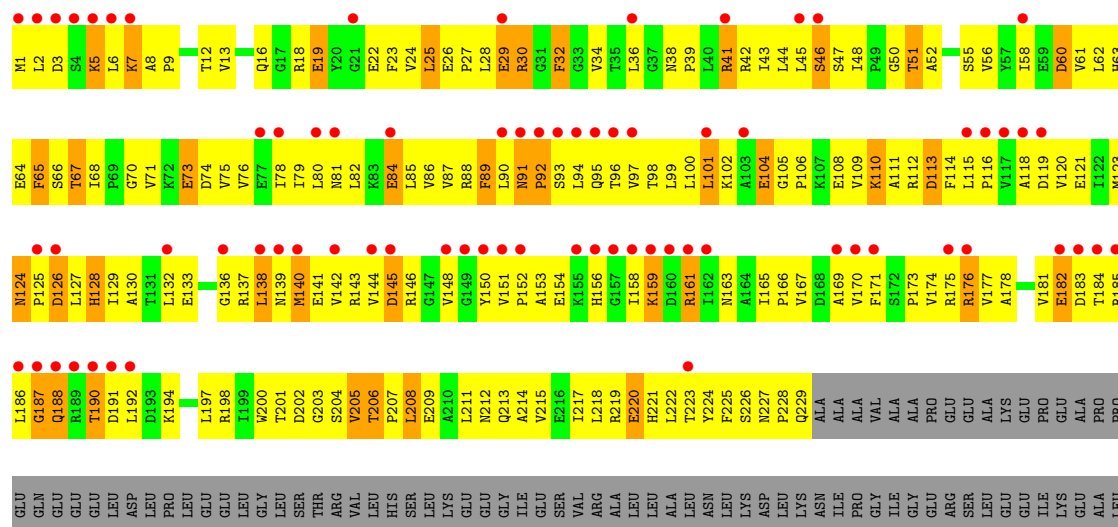
Chain K: 



PHE  
THR  
LEU  
LYS  
GLU

- Molecule 1: DNA-directed RNA polymerase alpha chain

Chain L: 

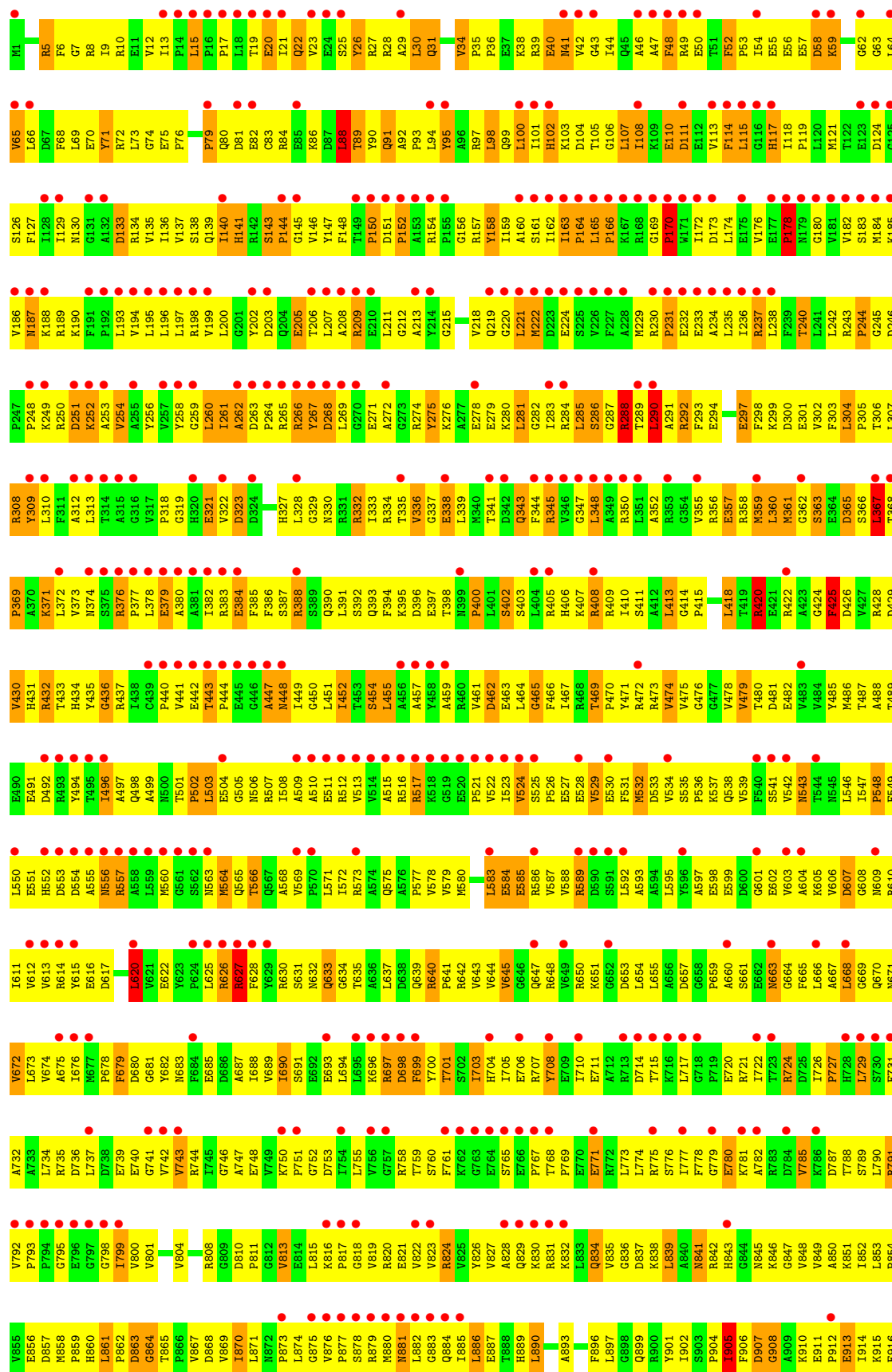


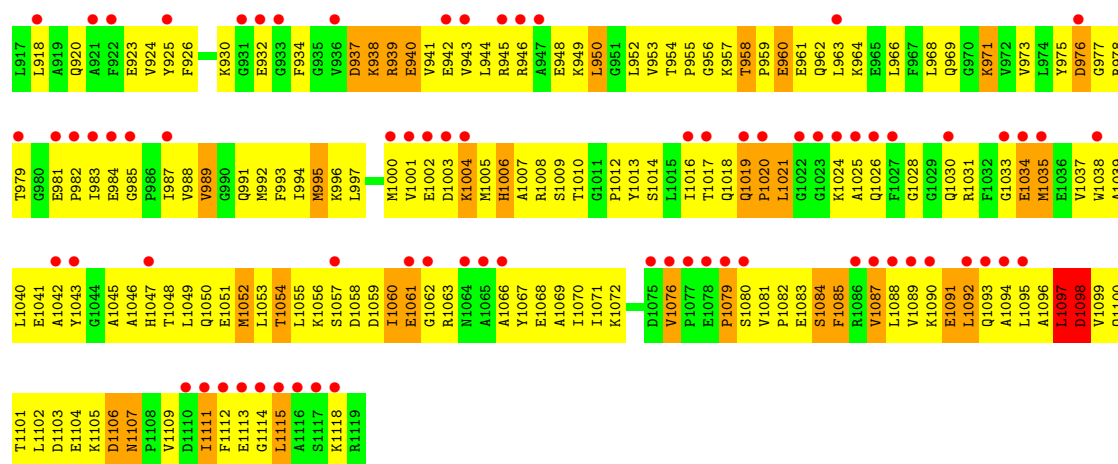
GLU  
LYS  
LYS  
GLY  
PHE  
THR  
LEU  
LYS  
GLU

- Molecule 2: DNA-directed RNA polymerase beta chain



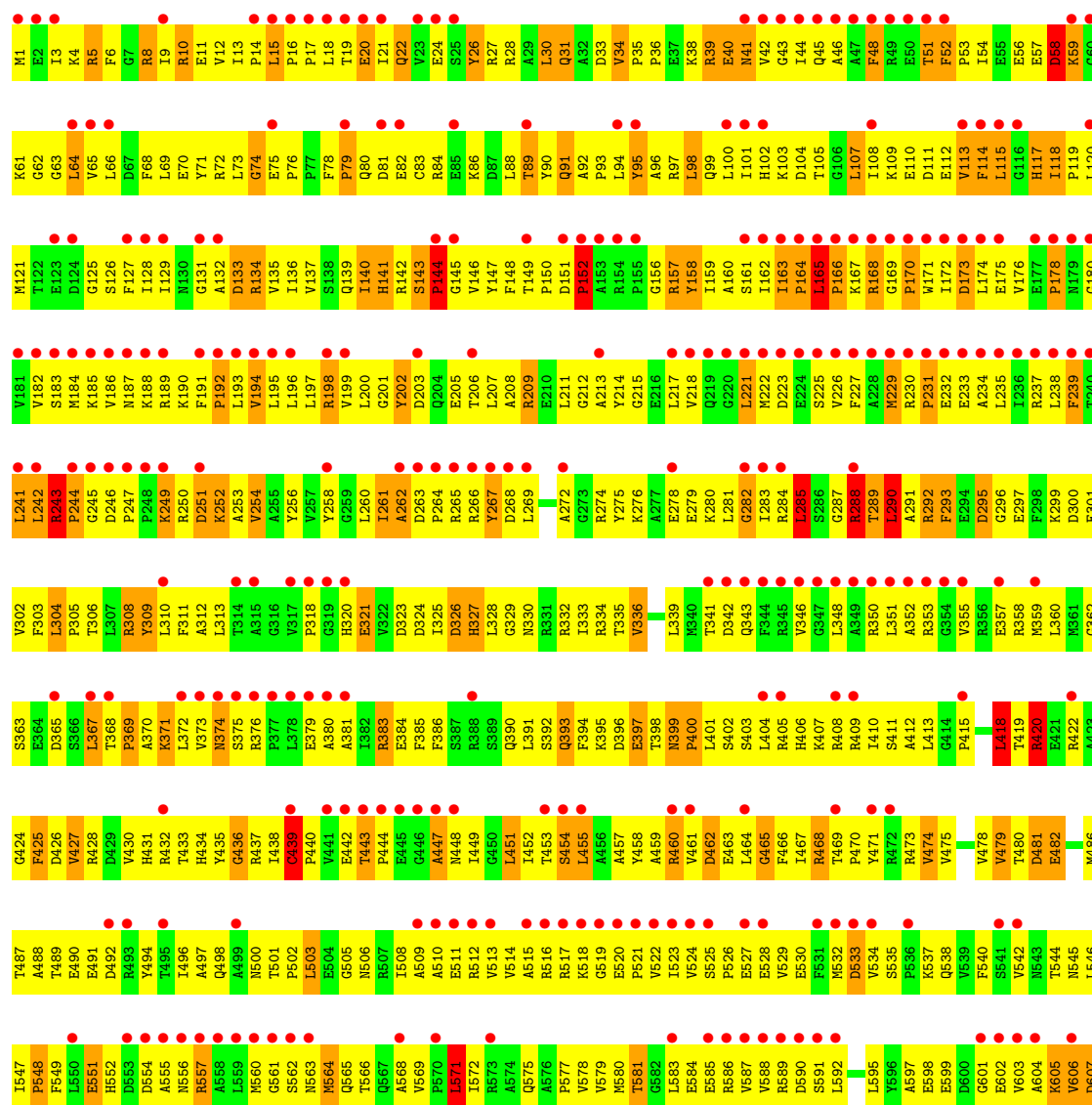
## Chain C:

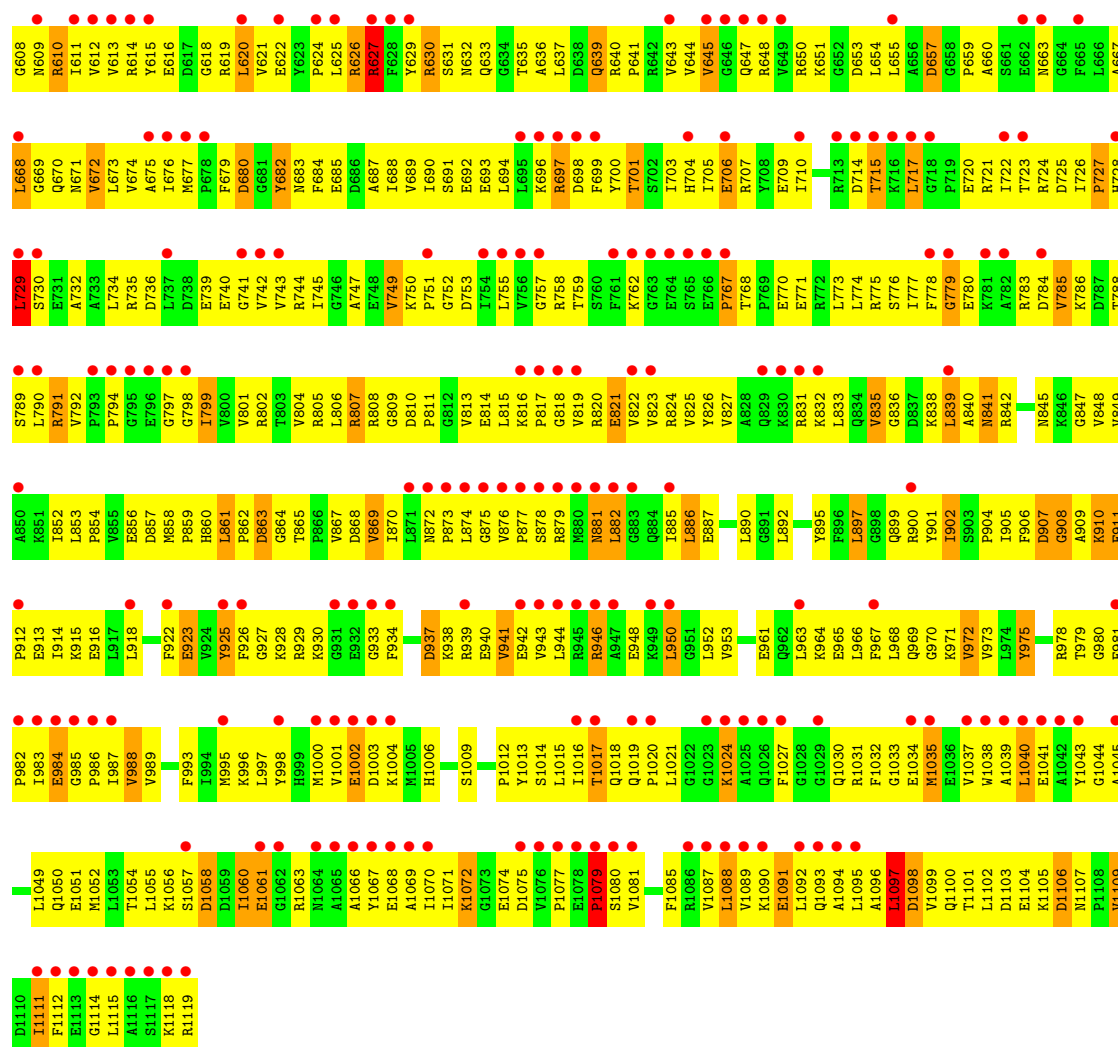




• Molecule 2: DNA-directed RNA polymerase beta chain

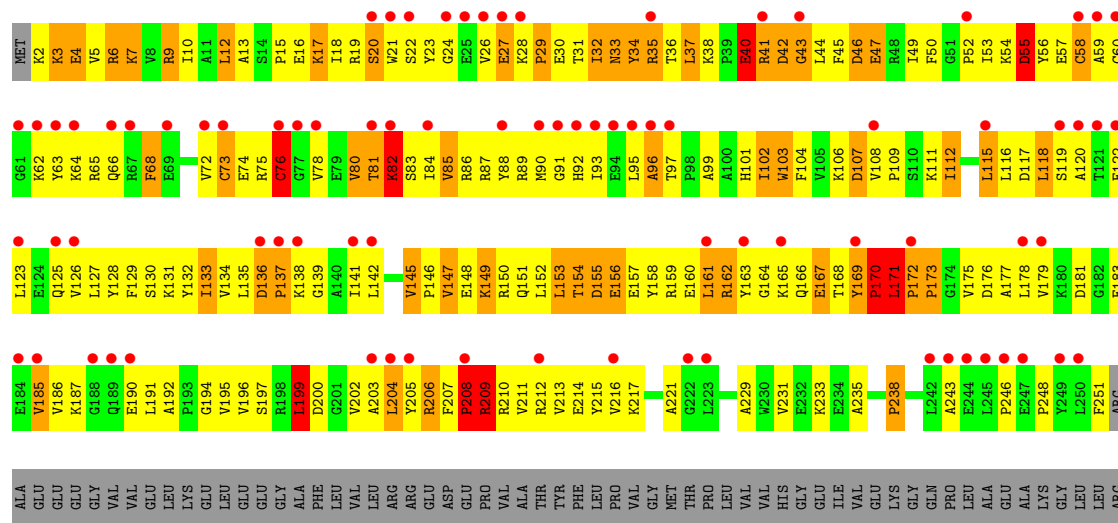
Chain M:



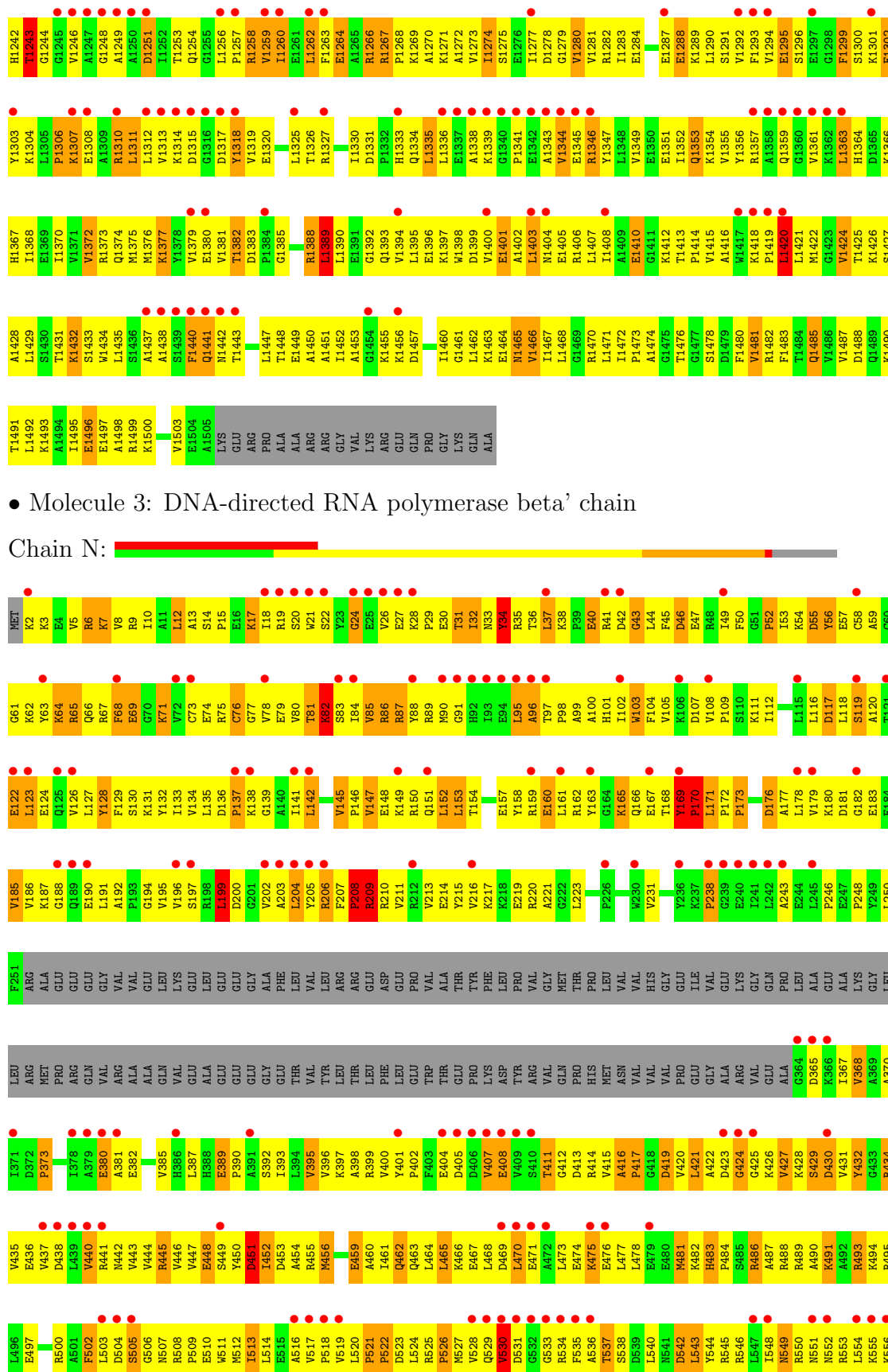


### • Molecule 3: DNA-directed RNA polymerase beta' chain

Chain D:

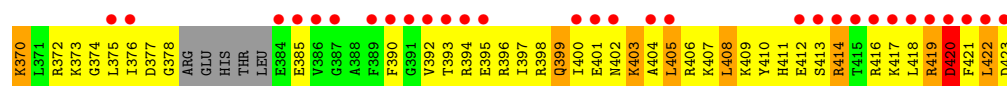


WORLDWIDE  
**PDB**  
PROTEIN DATA BANK



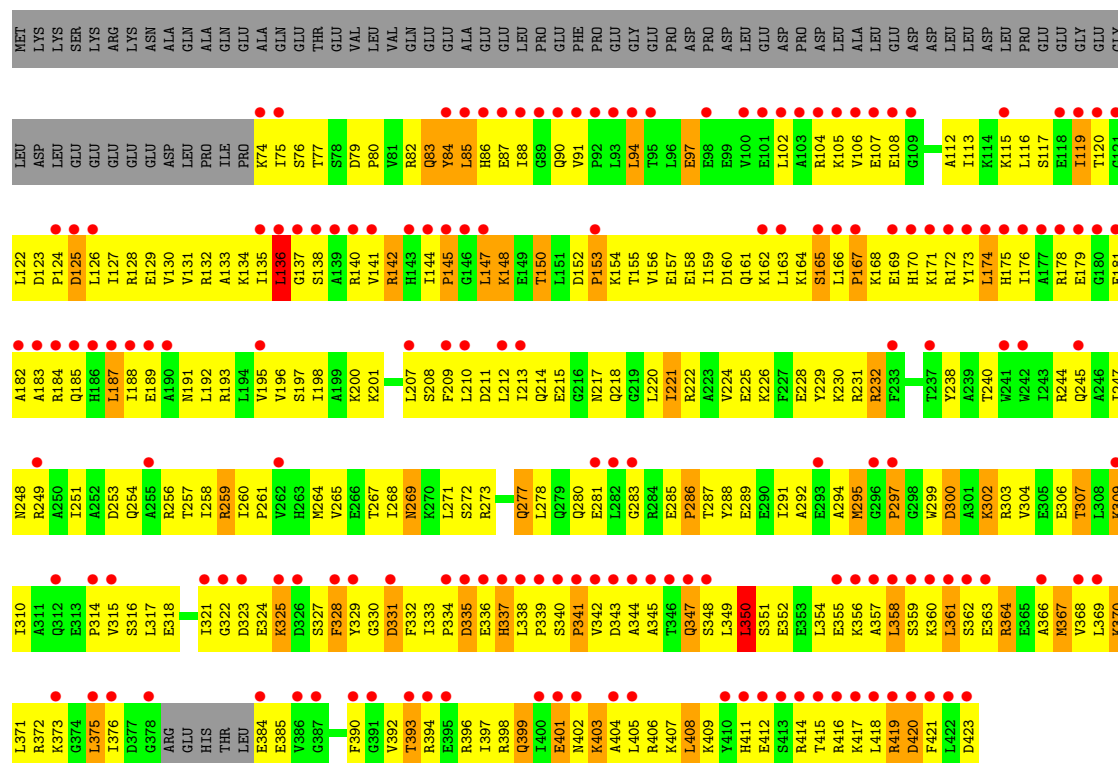
A1358	Q1359	G1360	V1361	K1362	L1363	H1364	D1365	K1366	L1367	I1368	A1369	I1370	V1371	V1372	R1373	R1374	M1375	K1376	K1377	Y1378	V1379	E1380	V1381	T1382	D1383	P1384	G1385	S1386	S1387	R1388	L1389	L1390	E1391	Q1392	Q1393	V1394	L1395	E1396	K1397	D1398	V1400	E1401	A1402	L1403	N1404	E1405	R1406	L1407	L1408	A1409	E1410	G1411	G1412	K1413	T1414	P1415	V1416	A1417	W1417			
S1296	E1297	G1298	F1299	K1300	K1301	E1302	K1303	K1304	L1305	P1306	K1307	E1308	A1309	R1310	L1311	L1312	V1313	K1314	D1315	G1316	Y1317	R1318	E1319	L1320	E1321	D1322	Q1323	P1324	L1325	T1326	R1327	L1328	T1329	I1330	Y1331	L1332	Q1333	Q1334	L1335	L1336	E1337	A1338	K1339	G1340	P1341	E1342	A1343	V1344	E1345	R1346	Y1347	L1348	A1349	E1350	E1351	L1352	Q1353	K1354	V1355	L1356	R1357	
Q1235	L1236	T1237	M1238	R1239	T1240	F1241	H1242	T1243	G1244	E1245	V1246	A1247	G1248	A1249	A1250	D1251	I1252	K1253	Q1254	P1257	R1258	E1259	I1260	E1261	L1262	F1263	A1264	L1265	A1266	R1267	T1268	K1269	L1270	K1271	A1272	V1273	I1274	S1275	E1276	I1277	D1278	G1279	V1280	R1281	R1282	I1283	E1284	E1285	T1286	E1287	K1288	E1289	G1290	E1291	V1292	T1293	V1294	E1295				
L1173	L1174	K1175	K1176	A1177	A1178	E1182	E1183	Q1184	E1185	V1186	P1187	V1188	R1189	S1190	P1191	L1192	L1193	G1194	Q1195	T1196	R1197	Y1198	G1199	V1200	C1201	Q1202	K1203	C1204	Y1205	G1206	Y1207	L1208	L1209	S1210	M1211	A1212	R1213	P1214	S1215	S1216	I1217	G1218	E1219	A1220	V1221	G1222	I1223	V1224	A1225	A1226	K1227	S1228	I1229	G1230	E1231	P1232	D1170	A1171	H1172			
G1112	G1113	T1114	T1115	N1116	N1117	T1118	S1119	V1120	P1121	L1122	F1123	A1124	P1125	D1126	E1127	V1128	T1129	R1130	R1133	L1134	R1135	K1136	L1137	A1138	L1139	T1140	A1141	G1142	G1143	L1144	Y1145	G1146	R1147	V1148	L1149	A1150	R1151	E1152	V1153	E1154	V1155	L1156	G1157	V1158	R1159	L1160	E1161	E1162	G1163	R1164	V1165	L1166	S1167	L1168	D1169	D1170	A1171	H1172				
E1051	T1052	F1053	E1054	V1055	P1056	V1057	R1058	S1059	S1060	F1061	R1062	E1063	G1064	L1065	T1066	V1067	L1068	E1069	Y1070	F1071	I1072	S1073	S1074	H1075	G1076	A1077	G1080	E1081	A1082	A1083	D1083	T1084	A1085	L1086	R1087	T1088	A1089	D1090	S1091	G1092	Y1093	L1094	T1095	A1096	E1097	R1098	E1099	L1100	V1101	T1102	H1103	E1104	L1105	V1106	V1107	A1108	E1109	A1110	D1111			
Y989	D990	Q991	E992	R993	L993	Q994	L995	Y996	E998	T997	T998	T1000	E1001	K1002	V1003	T1004	Q1005	A1006	V1007	F1008	K1009	N1010	F1011	E1012	E1013	N1014	F1017	N1018	P1019	L1020	Y1021	M1022	M1023	S1026	G1027	A1028	R1029	G1030	E1031	D968	R969	K970	L971	L972	Q973	I974	E975	Q976	A977	Y978	E979	M980	G981	F982	D985	R986	E987	R988				
V866	R867	Y868	M869	G870	K871	R872	L873	E874	S876	R877	G878	R879	L880	L881	F882	A883	R884	I885	R886	A887	E888	A889	V890	E891	D892	E893	R894	S895	R896	I897	Q901	L902	D903	Y904	P905	Q906	E907	K908	N909	S910	L911	K912	D913	R914	Y915	Y916	Q917	A918	F919	L920	R921	L922	G923	M924	E925							
K926	T927	A928	R929	L930	L931	D932	A933	Y936	Y937	T940	F941	S942	T943	T944	S945	G946	T947	T948	T949	I949	E987	E988	I951	D952	D953	A954	Y955	I956	P957	E958	E959	R960	Q961	Q962	Y963	L964	E965	E966	A967	D968	R969	K970	L971	L972	Q973	I974	E975	Q976	A977	Y978	E979	M980	G981	F982	D985	R986	E987	R988				
D743	Q744	M745	A746	V747	H748	V749	P750	L751	S752	S753	F754	Q756	A757	E758	A759	R760	I761	Q762	M763	L764	S765	A766	H767	N768	L769	L770	P771	S772	T773	G774	S775	E776	P777	R778	A779	K780	S781	S782	R783	D784	I785	L786	L787	G788	L789	Y790	Y791	I792	T793	Q794	V795	R796	A797	K799	X800	A802						
R681	D682	K683	K684	D685	E686	V687	W688	D689	L691	E692	E693	V694	L695	E696	K697	K698	V699	L700	M701	L702	H640	Q641	C642	G643	L644	P645	P646	L707	L708	H709	R710	L711	G712	L713	Q714	F715	F716	Q717	P718	V719	L720	K660	E721	E722	S725	I726	Q727	L728	H729	P668	N669	V670	K671	A672	A673	Q610	Q611	R612	F614	R615	Q616	Q690
L557	L558	G561	P562	P563	E564	I565	I566	I567	R568	N569	E570	K571	R572	M573	L574	Q575	E576	A577	S578	D579	A580	L581	L582	G583	N584	G585	R586	R587	G588	A589	P590	T591	T592	N593	P594	G595	S596	D597	R598	P599	L600	R601	S602	L603	T604	D605	I606	S607	S608	G609	K610	Q611	R612	F614	R615	Q616	Q690					





• Molecule 5: RNA polymerase sigma factor rpoD

Chain P:





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	239.50Å 239.50Å 253.10Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	25.00 – 2.40 36.81 – 2.40	Depositor EDS
% Data completeness (in resolution range)	(Not available) (25.00-2.40) 95.2 (36.81-2.40)	Depositor EDS
$R_{merge}$	0.10	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	4.65 (at 2.39Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.237 , 0.274 0.235 , 0.272	Depositor DCC
$R_{free}$ test set	34795 reflections (6.11%)	DCC
Wilson B-factor (Å <sup>2</sup> )	33.7	Xtriage
Anisotropy	0.106	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.07 , -20.0	EDS
Estimated twinning fraction	0.500 for H, K, L 0.500 for -H, -K, L 0.499 for -h,-k,l 0.065 for h,-h-k,-l 0.065 for -k,-h,-l	Xtriage
Reported twinning fraction	0.500 for H, K, L 0.500 for -H, -K, L	Depositor
L-test for twinning	$\langle  L  \rangle = 0.42$ , $\langle L^2 \rangle = 0.25$	Xtriage
Outliers	0 of 604645 reflections	Xtriage
$F_o, F_c$ correlation	0.69	EDS
Total number of atoms	61800	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.81% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities 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: ZN, MG, TGT

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	0.77	0/1838	0.86	3/2498 (0.1%)
1	B	0.70	0/1838	0.83	4/2498 (0.2%)
1	K	0.76	0/1838	0.85	4/2498 (0.2%)
1	L	0.73	0/1838	0.76	0/2498
2	C	0.81	0/8997	0.89	8/12164 (0.1%)
2	M	0.80	2/8997 (0.0%)	0.89	12/12164 (0.1%)
3	D	0.82	0/10975	0.92	21/14836 (0.1%)
3	N	0.80	1/10975 (0.0%)	0.92	17/14836 (0.1%)
4	E	0.80	0/783	0.94	0/1054
4	O	0.81	0/783	0.92	0/1054
5	F	0.71	0/2812	0.81	1/3781 (0.0%)
5	P	0.72	0/2812	0.78	2/3781 (0.1%)
All	All	0.79	3/54486 (0.0%)	0.89	72/73662 (0.1%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	N	733	CYS	CB-SG	-5.54	1.72	1.81
2	M	202	TYR	CD2-CE2	5.05	1.47	1.39
2	M	682	TYR	CD2-CE2	5.02	1.46	1.39

All (72) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	138	LEU	CA-CB-CG	10.11	138.56	115.30
3	N	199	LEU	CA-CB-CG	-8.78	95.11	115.30
2	M	557	ARG	NE-CZ-NH2	7.73	124.17	120.30
3	D	199	LEU	CA-CB-CG	-7.64	97.72	115.30
3	N	1389	LEU	CA-CB-CG	7.54	132.65	115.30
2	M	165	LEU	C-N-CD	-6.96	105.28	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	N	1068	LEU	CA-CB-CG	-6.78	99.71	115.30
2	C	367	LEU	CA-CB-CG	6.74	130.79	115.30
1	K	115	LEU	CA-CB-CG	6.68	130.66	115.30
3	D	708	LEU	CA-CB-CG	-6.63	100.06	115.30
3	N	1029	ARG	NE-CZ-NH2	-6.57	117.01	120.30
1	A	192	LEU	CA-CB-CG	6.49	130.22	115.30
3	D	813	LEU	CA-CB-CG	6.27	129.72	115.30
2	M	1097	LEU	CA-CB-CG	6.25	129.66	115.30
3	D	1389	LEU	CA-CB-CG	6.20	129.57	115.30
3	D	1029	ARG	NE-CZ-NH2	-6.18	117.21	120.30
5	F	136	LEU	CA-CB-CG	6.09	129.31	115.30
2	M	243	ARG	C-N-CD	-6.08	107.23	120.60
2	C	165	LEU	C-N-CD	-5.92	107.57	120.60
3	D	637	LEU	CA-CB-CG	5.90	128.87	115.30
1	A	115	LEU	CA-CB-CG	5.89	128.84	115.30
2	M	418	LEU	CA-CB-CG	-5.86	101.82	115.30
1	A	90	LEU	CA-CB-CG	-5.79	101.99	115.30
3	D	1209	LEU	N-CA-C	-5.76	95.46	111.00
3	D	783	ARG	NE-CZ-NH2	5.73	123.16	120.30
2	C	243	ARG	C-N-CD	-5.72	108.01	120.60
3	N	209	ARG	N-CA-C	5.71	126.43	111.00
1	K	127	LEU	CA-CB-CG	5.68	128.36	115.30
2	M	285	LEU	CA-CB-CG	5.65	128.30	115.30
3	N	1209	LEU	N-CA-C	-5.63	95.80	111.00
3	N	581	LEU	CA-CB-CG	5.61	128.20	115.30
2	C	290	LEU	CA-CB-CG	5.59	128.16	115.30
2	C	88	LEU	CA-CB-CG	5.58	128.13	115.30
3	D	1395	LEU	CA-CB-CG	5.58	128.13	115.30
5	P	136	LEU	CA-CB-CG	5.58	128.12	115.30
3	N	743	ASP	CB-CG-OD2	5.57	123.31	118.30
3	D	209	ARG	N-CA-C	5.56	126.02	111.00
1	K	2	LEU	CA-CB-CG	5.54	128.05	115.30
3	D	171	LEU	CA-CB-CG	5.53	128.02	115.30
3	D	73	CYS	CA-CB-SG	5.53	123.95	114.00
3	D	238	PRO	N-CA-CB	5.45	109.84	103.30
1	B	25	LEU	CA-CB-CG	5.42	127.76	115.30
3	N	1312	LEU	CA-CB-CG	5.41	127.75	115.30
3	N	637	LEU	CA-CB-CG	5.41	127.73	115.30
3	D	581	LEU	CA-CB-CG	5.41	127.73	115.30
5	P	350	LEU	CA-CB-CG	5.38	127.68	115.30
2	M	98	LEU	CA-CB-CG	5.38	127.67	115.30
1	B	2	LEU	CA-CB-CG	5.37	127.66	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	1420	LEU	CB-CG-CD2	-5.36	101.90	111.00
3	D	208	PRO	CA-N-CD	-5.34	104.03	111.50
3	N	238	PRO	N-CA-CB	5.33	109.69	103.30
2	M	571	LEU	CA-CB-CG	5.29	127.47	115.30
2	M	439	CYS	CA-CB-SG	5.29	123.51	114.00
2	M	729	LEU	CA-CB-CG	-5.28	103.15	115.30
3	N	373	PRO	N-CA-CB	5.25	109.60	103.30
3	N	208	PRO	CA-N-CD	-5.24	104.17	111.50
3	N	248	PRO	N-CA-CB	5.22	109.57	103.30
2	M	58	ASP	C-N-CA	5.22	134.74	121.70
2	C	620	LEU	CA-CB-CG	5.21	127.29	115.30
3	N	380	GLU	N-CA-C	-5.21	96.92	111.00
2	C	58	ASP	C-N-CA	5.20	134.71	121.70
3	D	81	THR	N-CA-C	-5.16	97.07	111.00
3	D	76	CYS	CA-CB-SG	5.13	123.23	114.00
3	N	81	THR	N-CA-C	-5.12	97.18	111.00
2	M	729	LEU	N-CA-C	5.09	124.74	111.00
3	D	248	PRO	N-CA-CB	5.04	109.35	103.30
2	C	1098	ASP	CB-CG-OD1	5.03	122.83	118.30
3	D	21	TRP	CA-CB-CG	5.03	123.26	113.70
1	K	211	LEU	CA-CB-CG	5.03	126.86	115.30
3	D	380	GLU	N-CA-C	-5.03	97.43	111.00
1	B	62	LEU	CA-CB-CG	5.02	126.86	115.30
3	N	1420	LEU	CA-CB-CG	5.02	126.84	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	217	0
1	K	1806	0	1861	195	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	1806	0	1861	216	0
2	C	8829	0	8933	1248	0
2	M	8829	0	8933	1139	0
3	D	10797	0	10873	1481	0
3	N	10797	0	10873	1398	0
4	E	769	0	775	101	0
4	O	769	0	775	98	0
5	F	2771	0	2844	350	0
5	P	2771	0	2844	345	0
6	C	1	0	0	0	0
6	D	1	0	0	0	0
6	N	2	0	0	0	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	D	26	0	15	3	0
8	N	26	0	14	1	0
9	A	250	0	0	46	0
9	B	329	0	0	67	0
9	C	1321	0	0	266	0
9	D	1655	0	0	324	0
9	E	176	0	0	32	0
9	F	519	0	0	103	0
9	K	278	0	0	43	0
9	L	309	0	0	68	0
9	M	1236	0	0	259	0
9	N	1552	0	0	306	0
9	O	137	0	0	23	0
9	P	422	0	0	84	0
All	All	61800	0	54323	6611	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 61.

All (6611) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:409:ARG:HA	2:M:454:SER:HA	1.20	1.15
3:D:1045:MET:HG2	3:D:1073:SER:HA	1.33	1.10
3:D:119:SER:HB2	3:D:123:LEU:H	1.23	1.04
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.41	1.02
2:C:457:ALA:HB3	2:C:538:GLN:HA	1.43	1.01
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.39	1.00
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.43	1.00

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:567:ILE:HG22	3:N:571:LYS:HZ1	1.23	1.00
2:M:952:LEU:HD12	2:M:969:GLN:HE22	1.25	0.99
3:N:1096:ARG:HH11	3:N:1096:ARG:HB2	1.24	0.99
2:C:979:THR:HG23	2:C:981:GLU:H	1.26	0.99
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.44	0.99
2:C:110:GLU:HG2	2:C:369:PRO:HB3	1.45	0.98
3:N:422:ALA:HB1	5:P:178:ARG:HH12	1.26	0.97
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.43	0.97
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.45	0.96
3:N:1033:GLN:HE21	3:N:1036:ARG:HH11	1.01	0.96
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.45	0.96
3:D:540:LEU:HD21	3:D:603:LEU:HD21	1.47	0.96
3:D:1101:VAL:HG21	3:D:1424:VAL:HG22	1.47	0.95
3:D:9:ARG:HH12	3:D:506:GLY:HA2	1.31	0.95
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.30	0.94
2:M:169:GLY:HA2	2:M:263:ASP:HB3	1.49	0.94
1:L:1:MET:HG2	1:L:5:LYS:HB3	1.49	0.94
2:C:724:ARG:HG3	2:C:741:GLY:H	1.30	0.94
3:N:871:LYS:HE2	3:N:873:LEU:HD21	1.48	0.94
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.48	0.94
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.50	0.93
1:A:63:HIS:HB3	2:C:746:GLY:HA2	1.48	0.93
3:D:1468:LEU:HD22	3:D:1470:ARG:HB2	1.50	0.93
2:C:768:THR:HB	2:C:771:GLU:HB3	1.51	0.93
3:N:671:LYS:HZ3	3:N:675:ARG:HE	1.12	0.93
3:D:478:LEU:HD21	3:D:500:ARG:HH21	1.34	0.93
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.51	0.93
3:D:52:PRO:HG2	3:D:80:VAL:HG13	1.49	0.92
2:C:211:LEU:HD11	2:C:308:ARG:HB2	1.52	0.92
3:D:171:LEU:HD22	3:D:390:PRO:HG3	1.52	0.92
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.51	0.92
1:K:186:LEU:HB2	1:K:192:LEU:HD11	1.52	0.92
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.50	0.92
2:M:1096:ALA:O	3:N:13:ALA:HB2	1.69	0.91
2:M:462:ASP:HB3	2:M:468:ARG:HD2	1.50	0.91
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.51	0.91
2:M:857:ASP:HB2	2:M:978:ARG:HG2	1.48	0.91
2:C:775:ARG:HH21	2:C:782:ALA:HB1	1.35	0.91
2:M:762:LYS:HA	2:M:786:LYS:HD2	1.50	0.91
2:C:328:LEU:HD13	2:C:433:THR:HB	1.52	0.91
5:P:156:VAL:HA	5:P:159:ILE:HD12	1.51	0.91
3:N:835:SER:H	3:N:838:ARG:HH21	1.10	0.91

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:553:ARG:HH12	5:F:211:ASP:HA	1.35	0.91
3:D:530:VAL:HB	3:D:534:ARG:HB2	1.53	0.90
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.54	0.90
5:P:76:SER:O	5:P:80:PRO:HD2	1.71	0.90
2:C:54:ILE:HD11	2:C:356:ARG:HG3	1.54	0.89
2:C:479:VAL:HG21	2:C:503:LEU:HD11	1.52	0.89
2:C:630:ARG:HH21	2:C:705:ILE:HG22	1.34	0.89
3:N:1018:ASN:HB3	3:N:1021:TYR:HB3	1.53	0.89
2:M:8:ARG:HD2	2:M:10:ARG:HH22	1.38	0.89
1:A:14:ARG:NH2	1:A:22:GLU:HB3	1.87	0.89
3:D:1310:ARG:HD3	3:D:1310:ARG:H	1.37	0.89
3:N:145:VAL:HG22	3:N:146:PRO:HD2	1.54	0.89
5:F:166:LEU:HB3	5:F:170:HIS:HB2	1.52	0.89
3:D:65:ARG:HG3	3:D:66:GLN:H	1.38	0.89
2:C:1087:VAL:HG11	3:D:613:ARG:HH21	1.38	0.89
3:D:141:ILE:HD13	3:D:450:TYR:HB2	1.52	0.88
1:A:186:LEU:HB2	1:A:192:LEU:HD11	1.54	0.88
3:N:73:CYS:HB3	3:N:76:CYS:O	1.74	0.88
1:A:14:ARG:HH21	1:A:22:GLU:HB3	1.36	0.88
3:N:1476:THR:HG23	4:O:21:VAL:HG22	1.56	0.88
5:P:394:ARG:HA	5:P:397:ILE:HD12	1.55	0.88
3:D:214:GLU:HB2	3:D:390:PRO:HD2	1.55	0.87
3:N:55:ASP:HA	3:N:82:LYS:HG3	1.56	0.87
2:M:150:PRO:HA	2:M:158:TYR:HB3	1.56	0.87
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.37	0.87
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.57	0.87
3:D:1466:VAL:HG23	3:D:1472:ILE:HD11	1.55	0.87
1:K:24:VAL:HG22	1:K:196:THR:HB	1.54	0.86
1:B:87:VAL:HG21	1:B:144:VAL:HG11	1.55	0.86
2:C:362:GLY:HA3	2:C:367:LEU:HD23	1.58	0.86
2:C:1097:LEU:HD22	2:C:1097:LEU:H	1.41	0.86
2:C:774:LEU:HA	2:C:777:ILE:HD12	1.55	0.86
1:B:77:GLU:HB3	9:B:380:HOH:O	1.76	0.86
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.38	0.86
3:D:1026:SER:HA	9:D:9142:HOH:O	1.76	0.86
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.55	0.86
2:M:146:VAL:HG22	2:M:162:ILE:HA	1.57	0.86
2:M:411:SER:HA	2:M:452:ILE:HA	1.54	0.86
5:F:273:ARG:HA	5:F:276:ARG:HD2	1.58	0.86
3:N:1290:LEU:HD23	3:N:1291:SER:H	1.41	0.85
5:P:355:GLU:HA	5:P:358:LEU:HD23	1.58	0.85
3:D:1223:ILE:HD12	3:D:1223:ILE:H	1.40	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:375:LEU:HG	5:P:376:ILE:HG13	1.57	0.85
3:D:796:ARG:HG3	3:D:828:LYS:HD2	1.56	0.85
1:L:32:PHE:HB2	9:L:1714:HOH:O	1.75	0.85
3:N:1095:THR:HG23	3:N:1230:GLY:HA3	1.58	0.85
2:C:597:ALA:HB2	2:C:655:LEU:HD21	1.57	0.85
5:P:361:LEU:HD22	5:P:366:ALA:HB2	1.58	0.85
3:N:695:ILE:HA	9:N:9171:HOH:O	1.77	0.85
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.55	0.85
2:M:362:GLY:HA3	2:M:367:LEU:HD23	1.59	0.85
5:F:394:ARG:HA	5:F:397:ILE:HD12	1.58	0.85
3:N:1379:VAL:HG12	3:N:1419:PRO:HA	1.59	0.85
3:N:890:VAL:HG12	3:N:926:LYS:HG2	1.57	0.85
1:B:206:THR:HG22	1:B:209:GLU:HB2	1.58	0.85
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.58	0.85
3:N:194:GLY:H	3:N:206:ARG:HA	1.41	0.85
3:D:1197:ARG:HG3	3:D:1198:TYR:H	1.41	0.85
2:C:579:VAL:HG11	2:C:887:GLU:HG3	1.59	0.85
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.58	0.85
2:C:251:ASP:HB3	2:C:252:LYS:HD2	1.59	0.85
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.58	0.85
2:M:409:ARG:HA	2:M:454:SER:CA	2.07	0.84
3:N:1205:TYR:HD2	3:N:1215:VAL:HG21	1.42	0.84
3:D:194:GLY:H	3:D:206:ARG:HA	1.41	0.84
3:D:29:PRO:HG3	3:D:549:ASN:HD21	1.42	0.84
3:D:908:LYS:HB3	3:D:1027:GLY:HA3	1.59	0.84
5:P:161:GLN:HA	5:P:164:LYS:HD2	1.59	0.84
2:C:1081:VAL:HG21	2:C:1111:ILE:HG22	1.58	0.84
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.57	0.84
3:N:1033:GLN:NE2	3:N:1036:ARG:HH11	1.74	0.84
3:D:141:ILE:HG12	3:D:449:SER:HA	1.58	0.84
3:N:783:ARG:HD2	3:N:1029:ARG:HG2	1.59	0.84
3:D:800:LYS:HE3	3:D:830:ALA:HB3	1.60	0.84
3:N:422:ALA:H	3:N:427:VAL:HG11	1.43	0.83
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.60	0.83
2:C:433:THR:HG21	2:C:488:ALA:HB1	1.60	0.83
3:D:795:VAL:HG11	3:D:863:VAL:HG13	1.60	0.83
5:F:260:ILE:HG23	5:F:264:MET:HB2	1.59	0.83
3:D:178:LEU:HD21	9:D:2576:HOH:O	1.76	0.83
1:K:117:VAL:HB	1:K:120:VAL:HG12	1.58	0.83
2:M:10:ARG:HA	2:M:10:ARG:HH11	1.42	0.83
2:C:565:GLN:HA	2:C:995:MET:HE3	1.61	0.83
3:D:1209:LEU:HD21	4:E:16:LYS:NZ	1.93	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:179:PHE:HB3	1:B:197:LEU:HG	1.61	0.83
4:O:13:VAL:HG21	4:O:19:LEU:HB2	1.60	0.83
5:F:163:LEU:HB3	5:F:174:LEU:HG	1.59	0.83
3:N:865:THR:HG23	3:N:874:GLU:HG2	1.60	0.83
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.59	0.83
3:N:800:LYS:HE3	3:N:830:ALA:HB3	1.61	0.83
3:D:26:VAL:HG11	3:D:44:LEU:HD23	1.61	0.82
2:C:890:LEU:HA	2:C:914:ILE:HD11	1.60	0.82
3:D:1147:ARG:HB2	3:D:1166:LEU:HD21	1.61	0.82
3:N:898:GLU:HB3	3:N:921:ARG:HH22	1.44	0.82
5:F:85:LEU:HA	5:F:88:ILE:HD12	1.59	0.82
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.42	0.82
2:C:689:VAL:HB	2:C:870:ILE:HG13	1.59	0.82
3:N:52:PRO:HG3	3:N:78:VAL:HG13	1.60	0.82
3:N:513:ILE:HA	9:N:9341:HOH:O	1.79	0.82
1:B:57:TYR:HB3	1:B:141:GLU:HG3	1.61	0.82
2:C:232:GLU:HA	2:C:235:LEU:HD12	1.62	0.82
5:P:411:HIS:HA	5:P:414:ARG:HG3	1.62	0.82
2:C:1115:LEU:HA	3:D:89:ARG:HH21	1.43	0.82
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.61	0.82
2:C:1114:GLY:H	2:C:1115:LEU:HD12	1.45	0.82
3:N:462:GLN:HA	3:N:513:ILE:HD13	1.61	0.82
2:M:292:ARG:HB2	2:M:299:LYS:HE2	1.61	0.82
5:F:93:LEU:HD22	5:F:98:GLU:HB3	1.61	0.82
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.61	0.82
3:N:59:ALA:HA	9:N:2106:HOH:O	1.79	0.82
3:N:1383:ASP:HB2	3:N:1416:ALA:HB3	1.61	0.82
2:C:124:ASP:HB3	2:C:592:LEU:HD12	1.60	0.82
5:P:120:THR:HB	9:P:756:HOH:O	1.79	0.81
5:P:358:LEU:HD13	5:P:370:LYS:HE3	1.61	0.81
1:B:89:PHE:HB3	1:B:94:LEU:HD13	1.62	0.81
2:C:773:LEU:HB2	5:F:373:LYS:HB3	1.62	0.81
2:C:64:LEU:HD22	2:C:359:MET:HG3	1.62	0.81
1:B:94:LEU:HD21	1:B:119:ASP:HB2	1.63	0.81
3:N:14:SER:H	3:N:17:LYS:NZ	1.79	0.81
3:N:567:ILE:HG22	3:N:571:LYS:NZ	1.95	0.81
3:D:101:HIS:HD1	3:D:103:TRP:HB2	1.44	0.81
3:N:214:GLU:HB2	3:N:390:PRO:HD2	1.62	0.81
5:F:411:HIS:HA	5:F:414:ARG:HG3	1.62	0.81
1:L:158:ILE:HB	9:L:3186:HOH:O	1.79	0.81
2:C:186:VAL:HG23	2:C:187:ASN:H	1.45	0.81
2:C:861:LEU:HD23	2:C:862:PRO:HD2	1.61	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.62	0.81
3:N:1438:ALA:O	3:N:1443:THR:HG22	1.80	0.81
2:C:626:ARG:H	2:C:639:GLN:HE21	1.26	0.81
2:M:16:PRO:HB3	2:M:460:ARG:HH22	1.46	0.81
5:F:76:SER:O	5:F:80:PRO:HD2	1.80	0.81
3:D:971:LEU:HA	3:D:974:ILE:HD12	1.62	0.81
2:M:537:LYS:HG3	2:M:545:ASN:HD21	1.46	0.81
2:M:312:ALA:HB1	2:M:318:PRO:HG2	1.63	0.80
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.45	0.80
4:E:39:VAL:HB	4:E:72:ARG:HD2	1.63	0.80
2:C:432:ARG:HH11	3:D:1048:PRO:HD2	1.46	0.80
2:C:731:GLU:HA	2:C:734:LEU:HD12	1.63	0.80
3:D:955:VAL:HB	3:D:1011:PHE:HE1	1.46	0.80
2:M:30:LEU:HB3	2:M:44:ILE:HD12	1.61	0.80
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.63	0.80
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.62	0.80
2:C:312:ALA:HB1	2:C:318:PRO:HG2	1.63	0.80
3:D:1057:VAL:HG13	3:D:1069:GLU:HB3	1.63	0.80
3:N:520:LEU:HD12	3:N:521:PRO:HD2	1.61	0.80
3:N:46:ASP:HB3	3:N:49:ILE:HG13	1.63	0.80
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.61	0.80
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.62	0.80
3:N:493:ARG:HH22	3:N:1389:LEU:HG	1.47	0.80
2:C:588:VAL:HB	9:C:9552:HOH:O	1.81	0.80
3:D:73:CYS:HB3	3:D:76:CYS:O	1.81	0.80
2:C:773:LEU:HD13	5:F:373:LYS:HG3	1.61	0.80
2:M:670:GLN:HG2	9:M:1945:HOH:O	1.82	0.80
5:F:196:VAL:HG22	5:F:213:ILE:HD13	1.64	0.80
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.17	0.79
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.63	0.79
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.47	0.79
2:C:1010:THR:HG21	5:F:341:PRO:HB2	1.64	0.79
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.63	0.79
5:F:268:ILE:HA	5:F:271:LEU:HD12	1.65	0.79
3:N:693:GLU:HG3	4:O:48:MET:SD	2.23	0.79
5:F:266:GLU:HB2	9:F:739:HOH:O	1.82	0.79
3:N:30:GLU:HG3	3:N:41:ARG:HG2	1.64	0.79
5:F:358:LEU:HD11	5:F:370:LYS:HZ2	1.47	0.79
2:M:939:ARG:HD3	2:M:982:PRO:HD3	1.64	0.79
2:C:651:LYS:HA	9:C:9016:HOH:O	1.81	0.79
3:D:119:SER:HB2	3:D:123:LEU:N	1.96	0.79
3:D:877:PRO:HA	9:D:9270:HOH:O	1.83	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:161:ARG:HB2	1:L:161:ARG:HH11	1.48	0.79
2:C:710:ILE:HB	2:C:790:LEU:HD13	1.63	0.79
2:C:904:PRO:HD2	2:C:908:GLY:HA2	1.65	0.79
1:L:45:LEU:HD21	1:L:177:VAL:HG22	1.63	0.79
3:D:1105:ILE:HG13	9:D:9744:HOH:O	1.82	0.79
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	1.98	0.79
5:F:125:ASP:HA	5:F:128:ARG:NH1	1.98	0.79
3:N:396:VAL:HG21	3:N:447:VAL:HB	1.65	0.79
2:C:197:LEU:HD13	2:C:207:LEU:HD11	1.62	0.79
3:D:513:ILE:HA	9:D:9113:HOH:O	1.82	0.79
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.48	0.79
2:M:557:ARG:HH21	2:M:879:ARG:HE	1.31	0.78
3:N:601:ARG:NH1	3:N:606:ILE:HA	1.97	0.78
2:C:873:PRO:HG2	3:D:947:ILE:HD12	1.63	0.78
3:D:808:THR:HB	3:D:809:PRO:HD3	1.66	0.78
3:N:119:SER:HB3	3:N:123:LEU:H	1.46	0.78
1:B:128:HIS:HA	9:B:464:HOH:O	1.83	0.78
2:C:432:ARG:HH12	3:D:1047:LYS:HD3	1.48	0.78
3:N:141:ILE:HG12	3:N:449:SER:HA	1.63	0.78
2:M:15:LEU:HD13	2:M:583:LEU:HD21	1.64	0.78
3:D:1393:GLN:HB2	3:D:1398:TRP:NE1	1.98	0.78
3:N:570:GLU:HB2	5:P:214:GLN:NE2	1.98	0.78
2:C:108:ILE:HB	2:C:368:THR:OG1	1.83	0.78
2:M:1114:GLY:H	2:M:1115:LEU:HD12	1.47	0.78
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.64	0.78
2:M:557:ARG:HB3	9:M:1397:HOH:O	1.82	0.78
2:M:736:ASP:O	2:M:744:ARG:HG2	1.83	0.78
2:C:1056:LYS:O	3:D:624:ASP:HB2	1.84	0.78
3:N:907:GLU:HA	9:N:9151:HOH:O	1.81	0.78
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.65	0.78
3:D:86:ARG:O	3:D:522:PRO:HD2	1.83	0.78
2:M:140:ILE:HA	2:M:332:ARG:O	1.84	0.78
1:K:89:PHE:HB3	1:K:94:LEU:HD22	1.65	0.78
3:N:37:LEU:HA	9:N:9983:HOH:O	1.82	0.78
2:C:1042:ALA:HB3	3:D:710:ARG:HB3	1.65	0.78
2:M:572:ILE:HD11	2:M:698:ASP:HB3	1.66	0.78
1:A:222:LEU:HD12	1:B:215:VAL:HB	1.66	0.78
3:N:90:MET:HA	9:N:9284:HOH:O	1.83	0.78
2:C:1046:ALA:HB1	3:D:1471:LEU:HD11	1.65	0.78
2:M:937:ASP:HB2	2:M:940:GLU:HG3	1.66	0.77
1:L:87:VAL:HG21	1:L:144:VAL:HG11	1.64	0.77
5:P:361:LEU:HD21	5:P:404:ALA:HB1	1.67	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:964:LYS:O	2:M:968:LEU:HG	1.83	0.77
3:D:637:LEU:HD21	3:D:642:CYS:HA	1.66	0.77
2:C:1092:LEU:HG	3:D:607:LEU:HD21	1.66	0.77
3:D:543:LEU:HA	3:D:546:ARG:HG3	1.64	0.77
3:D:643:GLY:HA3	3:D:727:GLN:HB2	1.65	0.77
2:C:42:VAL:HG12	2:C:43:GLY:H	1.49	0.77
3:N:152:LEU:HD23	3:N:152:LEU:H	1.48	0.77
3:N:750:PRO:HB2	3:N:756:GLN:OE1	1.84	0.77
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.66	0.77
2:C:281:LEU:HD11	2:C:306:THR:HA	1.67	0.77
5:P:393:THR:HG22	5:P:394:ARG:H	1.49	0.77
3:D:1209:LEU:HD21	4:E:16:LYS:HZ2	1.49	0.77
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.00	0.77
1:K:34:VAL:HB	1:L:42:ARG:HH21	1.50	0.77
2:C:302:VAL:HG12	9:C:9351:HOH:O	1.84	0.77
3:N:795:VAL:HG11	3:N:863:VAL:HG13	1.65	0.77
2:C:945:ARG:HD2	9:C:2219:HOH:O	1.85	0.77
2:C:281:LEU:HD12	2:C:309:TYR:HB2	1.67	0.77
2:M:512:ARG:HB3	2:M:523:ILE:HD11	1.67	0.77
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.67	0.77
2:C:882:LEU:HD11	3:D:1038:LEU:HD23	1.65	0.76
2:M:597:ALA:HB2	2:M:655:LEU:HD21	1.65	0.76
2:C:690:ILE:HD11	2:C:694:LEU:HB2	1.67	0.76
5:F:112:ALA:HA	5:F:173:TYR:HD2	1.50	0.76
2:C:846:LYS:HD3	3:D:741:ASP:HB2	1.66	0.76
3:D:386:HIS:HA	9:D:9592:HOH:O	1.85	0.76
3:D:87:ARG:HA	9:D:2209:HOH:O	1.85	0.76
3:N:105:VAL:HG21	3:N:128:TYR:HE2	1.49	0.76
3:N:875:THR:HG21	3:N:902:LEU:HD13	1.65	0.76
2:M:274:ARG:HB2	2:M:285:LEU:HD13	1.67	0.76
3:N:671:LYS:HZ2	3:N:675:ARG:HH21	1.33	0.76
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.67	0.76
3:N:1205:TYR:CD2	3:N:1215:VAL:HG21	2.20	0.76
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.67	0.76
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.67	0.76
2:M:1030:GLN:HE22	3:N:628:ARG:HH21	1.31	0.76
2:M:22:GLN:NE2	2:M:336:VAL:HG21	2.00	0.76
3:D:525:ARG:HB2	3:D:541:ASN:HD21	1.50	0.76
5:F:132:ARG:HH11	5:F:136:LEU:HD21	1.50	0.76
1:L:112:ARG:HH12	1:L:126:ASP:HA	1.51	0.76
3:N:1352:ILE:O	3:N:1355:VAL:HG23	1.84	0.76
3:D:601:ARG:HG2	3:D:606:ILE:HD13	1.68	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:186:VAL:HG21	3:N:213:VAL:HB	1.67	0.76
2:C:36:PRO:HG2	2:C:70:GLU:HB3	1.68	0.76
5:F:417:LYS:HA	9:F:587:HOH:O	1.85	0.76
3:D:518:PRO:HB2	9:D:2368:HOH:O	1.84	0.76
3:D:161:LEU:HD22	3:D:452:ILE:HG21	1.67	0.76
5:P:364:ARG:HH12	5:P:392:VAL:HG21	1.49	0.76
2:C:244:PRO:HD2	2:C:245:GLY:H	1.51	0.76
3:N:835:SER:H	3:N:838:ARG:NH2	1.83	0.76
3:D:785:ILE:HD12	3:D:785:ILE:H	1.49	0.76
2:C:47:ALA:HB1	2:C:345:ARG:HB3	1.65	0.76
3:N:1112:CYS:HB2	3:N:1195:GLN:OE1	1.85	0.76
3:D:1046:GLN:HA	3:D:1052:THR:HA	1.68	0.76
3:N:671:LYS:NZ	3:N:675:ARG:HE	1.83	0.76
3:N:817:GLU:HG3	3:N:839:LEU:HD13	1.66	0.76
3:N:1209:LEU:HD11	4:O:16:LYS:HD2	1.67	0.75
2:M:791:ARG:HB3	2:M:791:ARG:NH1	2.01	0.75
2:C:820:ARG:HB2	9:C:9031:HOH:O	1.86	0.75
3:N:546:ARG:HH22	3:N:550:ARG:HH22	1.34	0.75
2:C:512:ARG:HB3	2:C:523:ILE:HD11	1.68	0.75
1:B:156:HIS:ND1	1:B:158:ILE:HG12	2.00	0.75
4:E:13:VAL:HB	9:E:128:HOH:O	1.86	0.75
2:M:1033:GLY:HA2	3:N:619:LEU:O	1.86	0.75
1:L:176:ARG:CZ	3:N:884:ARG:HH11	1.98	0.75
5:P:117:SER:HA	9:P:756:HOH:O	1.87	0.75
3:N:630:VAL:HA	3:N:744:GLN:HG2	1.67	0.75
2:C:678:PRO:O	3:D:943:THR:HA	1.87	0.75
3:N:1111:ASP:HB2	3:N:1203:LYS:HD2	1.69	0.75
3:D:628:ARG:HD3	3:D:744:GLN:NE2	2.01	0.75
1:L:22:GLU:HG2	1:L:198:ARG:HG2	1.69	0.75
3:N:95:LEU:HD21	3:N:574:LEU:HD11	1.68	0.75
2:C:332:ARG:HE	2:C:464:LEU:HD11	1.51	0.75
2:C:66:LEU:HB2	9:C:9063:HOH:O	1.84	0.75
2:M:952:LEU:HD12	2:M:969:GLN:NE2	2.02	0.75
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.67	0.75
5:F:220:LEU:HD12	5:F:243:ILE:HD11	1.67	0.75
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.69	0.75
3:N:565:ILE:H	3:N:565:ILE:HD12	1.50	0.75
3:D:1377:LYS:HG3	3:D:1394:VAL:HG13	1.69	0.75
2:C:675:ALA:HA	2:C:989:VAL:HG12	1.68	0.75
2:M:163:ILE:HG21	9:M:1318:HOH:O	1.87	0.75
3:N:514:LEU:HA	9:N:9120:HOH:O	1.87	0.75
3:N:1138:ALA:HA	3:N:1141:GLU:HG3	1.68	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:672:VAL:HG23	2:C:868:ASP:HB2	1.67	0.74
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.68	0.74
5:P:359:SER:HA	9:P:472:HOH:O	1.86	0.74
3:D:30:GLU:HB3	3:D:40:GLU:HB3	1.67	0.74
3:D:806:PHE:CE1	3:D:813:LEU:HB3	2.22	0.74
2:M:36:PRO:HG2	2:M:70:GLU:HB3	1.69	0.74
9:K:5362:HOH:O	2:M:856:GLU:HB3	1.87	0.74
3:D:37:LEU:HA	9:D:9129:HOH:O	1.87	0.74
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.69	0.74
2:C:1090:LYS:HE2	2:C:1112:PHE:HE1	1.50	0.74
2:M:1068:GLU:HB2	9:P:447:HOH:O	1.87	0.74
1:L:56:VAL:HG13	1:L:142:VAL:HG12	1.68	0.74
3:D:952:ASP:HA	3:D:1062:ARG:HH21	1.50	0.74
2:C:1019:GLN:HE22	3:D:621:LYS:HG2	1.53	0.74
3:D:93:ILE:HG12	3:D:548:ILE:HD12	1.69	0.74
3:D:974:ILE:HG22	9:D:9323:HOH:O	1.88	0.74
2:M:274:ARG:HD2	2:M:285:LEU:HD22	1.70	0.74
9:C:9028:HOH:O	3:D:1061:PHE:HA	1.88	0.74
3:D:85:VAL:O	3:D:89:ARG:HD2	1.88	0.74
2:C:139:GLN:OE1	2:C:414:GLY:HA3	1.87	0.74
2:M:1115:LEU:HD23	3:N:85:VAL:HG13	1.68	0.74
1:B:74:ASP:HB3	9:B:380:HOH:O	1.87	0.74
3:N:1301:LYS:HE3	3:N:1301:LYS:HA	1.68	0.74
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.70	0.74
2:C:943:VAL:HG23	2:C:985:GLY:H	1.52	0.74
2:M:534:VAL:H	2:M:538:GLN:NE2	1.85	0.74
2:C:428:ARG:HE	2:C:451:LEU:HD11	1.52	0.74
3:D:135:LEU:HD13	3:D:147:VAL:HG23	1.70	0.74
3:N:451:ASP:HB3	9:N:2657:HOH:O	1.89	0.73
1:A:42:ARG:NH1	2:C:857:ASP:HB3	2.03	0.73
5:P:102:LEU:HD13	5:P:187:LEU:HG	1.68	0.73
1:A:59:GLU:HG3	1:A:139:ASN:OD1	1.88	0.73
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.68	0.73
3:N:699:VAL:HG21	3:N:760:ARG:HB3	1.69	0.73
2:C:838:LYS:HG3	2:C:997:LEU:HD12	1.70	0.73
2:M:856:GLU:HG3	9:M:1358:HOH:O	1.88	0.73
2:M:107:LEU:HD12	9:M:2109:HOH:O	1.87	0.73
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.87	0.73
2:C:694:LEU:HD11	2:C:868:ASP:HB3	1.70	0.73
1:B:41:ARG:HH11	1:B:177:VAL:HG23	1.53	0.73
2:M:1111:ILE:HD13	2:M:1111:ILE:H	1.52	0.73
5:F:156:VAL:HG11	9:F:540:HOH:O	1.86	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1144:LEU:HD12	3:N:1171:VAL:HG13	1.70	0.73
2:M:498:GLN:O	2:M:501:THR:HG23	1.89	0.73
1:L:58:ILE:HB	1:L:61:VAL:HB	1.69	0.73
3:N:192:ALA:O	3:N:195:VAL:HG23	1.87	0.73
3:N:423:ASP:HB2	5:P:178:ARG:HD2	1.70	0.73
3:N:131:LYS:HG3	3:N:572:ARG:HH21	1.52	0.73
1:B:25:LEU:HB2	9:B:327:HOH:O	1.86	0.73
2:M:73:LEU:HD23	2:M:94:LEU:HD13	1.69	0.73
3:D:984:THR:HG22	3:D:987:GLU:HB2	1.69	0.73
5:P:335:ASP:OD2	5:P:338:LEU:HB2	1.89	0.73
1:K:222:LEU:HD11	1:L:218:LEU:HD23	1.68	0.73
3:D:1031:ASN:HD22	3:D:1034:GLN:NE2	1.87	0.73
1:K:206:THR:HG22	1:K:209:GLU:HG3	1.71	0.73
5:F:94:LEU:HB3	9:F:641:HOH:O	1.87	0.73
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.70	0.73
3:D:213:VAL:HG21	9:D:9317:HOH:O	1.89	0.73
1:L:228:PRO:O	1:L:229:GLN:HG3	1.89	0.73
3:N:1156:LEU:HB3	9:N:9896:HOH:O	1.88	0.73
3:D:127:LEU:HD11	3:D:461:ILE:HD11	1.70	0.73
3:D:493:ARG:HH22	3:D:1389:LEU:HG	1.53	0.73
3:D:795:VAL:HG23	3:D:879:ARG:HH12	1.53	0.73
5:F:160:ASP:HA	5:F:163:LEU:HD12	1.70	0.73
2:C:231:PRO:HB3	9:C:9753:HOH:O	1.88	0.73
2:M:675:ALA:HA	2:M:989:VAL:HG12	1.71	0.72
3:D:187:LYS:HE2	3:D:213:VAL:HG12	1.70	0.72
2:C:704:HIS:HB2	2:C:831:ARG:HE	1.54	0.72
1:A:8:ALA:HB1	1:B:224:TYR:CE1	2.24	0.72
3:D:101:HIS:ND1	3:D:103:TRP:HB2	2.04	0.72
3:N:810:GLU:O	3:N:813:LEU:HG	1.89	0.72
3:D:528:VAL:O	3:D:535:PHE:HA	1.90	0.72
3:D:666:ILE:HD12	3:D:666:ILE:H	1.53	0.72
5:P:403:LYS:NZ	5:P:403:LYS:HA	2.04	0.72
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.69	0.72
3:N:1209:LEU:HD23	3:N:1210:SER:N	2.03	0.72
2:M:1040:LEU:HB3	2:M:1049:LEU:HD12	1.70	0.72
2:C:413:LEU:HD12	2:C:413:LEU:H	1.52	0.72
3:D:546:ARG:O	3:D:550:ARG:HG2	1.89	0.72
2:C:479:VAL:CG2	2:C:503:LEU:HD11	2.19	0.72
2:C:882:LEU:HB3	3:D:951:ILE:HD11	1.72	0.72
3:D:1166:LEU:HD23	3:D:1166:LEU:H	1.54	0.72
3:N:955:VAL:HA	9:N:9213:HOH:O	1.89	0.72
3:D:171:LEU:HD11	3:D:388:HIS:CB	2.19	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:572:ARG:HH11	5:F:80:PRO:HD3	1.55	0.72
3:D:161:LEU:HD23	3:D:449:SER:HB3	1.71	0.72
2:M:1115:LEU:HB3	3:N:85:VAL:HG13	1.72	0.72
2:C:626:ARG:H	2:C:639:GLN:NE2	1.87	0.72
3:N:1277:ILE:HD12	3:N:1301:LYS:HB2	1.72	0.72
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.54	0.72
2:C:384:GLU:HG3	2:C:388:ARG:HE	1.54	0.72
2:C:86:LYS:HE2	2:C:813:VAL:HG12	1.69	0.72
2:M:1058:ASP:HA	9:M:1172:HOH:O	1.89	0.72
2:M:943:VAL:HG23	2:M:985:GLY:H	1.54	0.72
3:N:161:LEU:HD22	3:N:452:ILE:HG21	1.72	0.72
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.70	0.72
2:C:521:PRO:HB2	3:D:1055:VAL:HB	1.72	0.72
2:M:129:ILE:HD13	2:M:134:ARG:HB2	1.72	0.72
5:F:235:PHE:HA	9:F:523:HOH:O	1.90	0.72
3:N:1459:LEU:HA	9:N:9821:HOH:O	1.90	0.72
2:M:83:CYS:HA	2:M:88:LEU:HB3	1.69	0.72
3:D:1105:ILE:HD11	3:D:1374:GLN:NE2	2.04	0.72
1:B:73:GLU:HB3	1:B:77:GLU:CG	2.20	0.72
3:N:927:THR:HA	9:N:2186:HOH:O	1.90	0.72
3:N:807:ALA:HB2	3:N:833:GLU:OE1	1.88	0.72
3:D:1438:ALA:O	3:D:1443:THR:HG22	1.88	0.72
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.71	0.72
3:D:399:ARG:HB2	3:D:444:VAL:HG13	1.71	0.72
2:M:1016:ILE:HD11	5:P:317:LEU:HD22	1.71	0.72
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.71	0.71
3:N:1036:ARG:HH21	3:N:1042:ARG:HA	1.55	0.71
2:M:771:GLU:HA	9:M:2317:HOH:O	1.88	0.71
3:N:1434:TRP:CZ3	3:N:1457:ASP:HB2	2.24	0.71
1:K:36:LEU:O	1:K:39:PRO:HD2	1.90	0.71
2:C:557:ARG:NE	2:C:879:ARG:HG2	2.04	0.71
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.70	0.71
2:C:534:VAL:H	2:C:538:GLN:HE22	1.39	0.71
2:M:943:VAL:HA	9:M:2093:HOH:O	1.88	0.71
3:D:400:VAL:HG23	9:D:2550:HOH:O	1.89	0.71
2:M:447:ALA:HA	3:N:1085:ALA:HB1	1.69	0.71
2:M:192:PRO:HD2	9:M:1708:HOH:O	1.91	0.71
3:N:1109:GLU:HG2	3:N:1201:CYS:HA	1.72	0.71
2:M:1085:PHE:HD2	3:N:1468:LEU:HA	1.55	0.71
2:M:93:PRO:HG3	2:M:117:HIS:HE1	1.55	0.71
3:D:1311:LEU:HD23	3:D:1311:LEU:H	1.54	0.71
3:N:1314:LYS:HZ1	3:N:1317:ASP:HB2	1.54	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:881:ASN:HD22	2:C:881:ASN:H	1.37	0.71
2:M:1088:LEU:HD12	3:N:613:ARG:HE	1.55	0.71
3:N:86:ARG:O	3:N:522:PRO:HD2	1.91	0.71
5:F:358:LEU:HD21	5:F:370:LYS:HE3	1.73	0.71
1:A:9:PRO:HD2	1:B:224:TYR:CZ	2.25	0.71
3:D:6:ARG:HB2	3:D:7:LYS:HD3	1.70	0.71
1:B:153:ALA:HB3	9:B:518:HOH:O	1.90	0.71
2:M:790:LEU:HG	9:M:1927:HOH:O	1.89	0.71
3:N:542:ASP:O	3:N:546:ARG:HG2	1.90	0.71
3:N:54:LYS:HG2	3:N:57:GLU:HB3	1.72	0.71
3:N:119:SER:H	3:N:123:LEU:HB2	1.55	0.71
1:K:96:THR:HG21	9:K:1754:HOH:O	1.89	0.71
1:K:206:THR:HG22	1:K:209:GLU:H	1.55	0.71
1:K:228:PRO:HG2	9:K:6760:HOH:O	1.91	0.71
3:D:1160:LEU:HD11	3:D:1174:LEU:HD21	1.72	0.71
1:K:99:LEU:HD21	1:K:122:ILE:HD11	1.72	0.71
3:D:422:ALA:HB3	3:D:427:VAL:CG2	2.19	0.71
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.72	0.71
2:C:724:ARG:HH11	2:C:724:ARG:HB3	1.55	0.71
3:D:454:ALA:HB1	9:D:9355:HOH:O	1.89	0.71
3:N:131:LYS:HA	3:N:456:MET:HG3	1.72	0.71
2:C:606:VAL:HG22	2:C:645:VAL:HG13	1.73	0.71
3:D:58:CYS:HB3	9:D:9127:HOH:O	1.90	0.71
3:N:12:LEU:HD13	3:N:511:TRP:HB2	1.72	0.71
2:C:478:VAL:HA	2:C:506:ASN:O	1.91	0.71
1:A:30:ARG:HH12	2:C:938:LYS:NZ	1.88	0.71
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.71	0.71
1:B:38:ASN:HB3	1:B:39:PRO:HD3	1.73	0.71
2:C:575:GLN:HG3	2:C:670:GLN:HG2	1.73	0.71
2:M:862:PRO:HG3	2:M:975:TYR:HE1	1.56	0.71
3:D:208:PRO:HB2	3:D:395:VAL:HG22	1.71	0.71
1:A:20:TYR:HD2	1:A:21:GLY:H	1.39	0.71
3:D:493:ARG:HE	3:D:1388:ARG:HB3	1.56	0.71
3:N:545:ARG:HE	5:P:257:THR:HA	1.56	0.71
3:N:843:PHE:HA	9:N:9435:HOH:O	1.90	0.71
3:N:996:TRP:HE3	3:N:999:THR:HG21	1.56	0.71
2:C:1060:ILE:HD12	2:C:1063:ARG:HH12	1.55	0.71
3:D:118:LEU:HB3	3:D:123:LEU:HD22	1.72	0.70
3:N:1290:LEU:HD23	3:N:1291:SER:N	2.05	0.70
2:C:610:ARG:HB2	9:C:9166:HOH:O	1.90	0.70
3:N:639:LEU:HD13	3:N:766:ALA:HB2	1.72	0.70
3:N:1342:GLU:CD	3:N:1342:GLU:H	1.94	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:774:LEU:HA	2:M:777:ILE:HD12	1.72	0.70
1:A:10:VAL:HG12	1:A:12:THR:HG22	1.73	0.70
2:C:409:ARG:HA	2:C:454:SER:HA	1.72	0.70
3:N:422:ALA:HB1	5:P:178:ARG:NH1	2.04	0.70
3:D:58:CYS:SG	3:D:59:ALA:N	2.64	0.70
3:D:133:ILE:HG21	9:D:9355:HOH:O	1.90	0.70
2:M:332:ARG:NE	2:M:464:LEU:HG	2.05	0.70
1:B:41:ARG:HG3	1:B:177:VAL:HG21	1.71	0.70
2:C:650:ARG:HG3	2:C:653:ASP:HB2	1.73	0.70
3:N:210:ARG:HH11	3:N:398:ALA:HB3	1.56	0.70
1:K:69:PRO:HG2	9:K:2134:HOH:O	1.90	0.70
2:C:678:PRO:HG3	3:D:947:ILE:HD11	1.71	0.70
2:C:1111:ILE:HD12	2:C:1112:PHE:H	1.55	0.70
2:M:736:ASP:HA	2:M:744:ARG:HD3	1.72	0.70
3:N:470:LEU:HD12	3:N:503:LEU:HG	1.72	0.70
2:M:114:PHE:HE2	5:P:283:GLY:HA3	1.56	0.70
2:M:325:ILE:HD11	9:M:1743:HOH:O	1.91	0.70
2:M:707:ARG:HH21	2:M:709:GLU:HB2	1.57	0.70
3:N:1264:GLU:OE2	3:N:1424:VAL:HG12	1.90	0.70
3:N:756:GLN:O	3:N:760:ARG:HG2	1.92	0.70
5:F:393:THR:HG22	5:F:394:ARG:H	1.56	0.70
3:D:1214:PRO:HD3	9:D:9781:HOH:O	1.90	0.70
5:P:315:VAL:HA	9:P:809:HOH:O	1.92	0.70
1:A:8:ALA:HB1	1:B:224:TYR:HE1	1.55	0.70
2:C:29:ALA:HB2	2:C:337:GLY:CA	2.22	0.70
3:D:490:ALA:HA	9:D:9326:HOH:O	1.90	0.70
3:N:607:LEU:HA	3:N:613:ARG:HB3	1.73	0.70
3:N:639:LEU:HD11	3:N:928:ALA:HB1	1.73	0.70
2:C:405:ARG:CZ	2:C:566:THR:HG21	2.22	0.70
1:L:110:LYS:HB2	1:L:110:LYS:HZ2	1.57	0.70
3:N:75:ARG:HG2	9:N:2555:HOH:O	1.92	0.70
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.72	0.70
2:M:405:ARG:HH22	2:M:409:ARG:NH1	1.89	0.70
2:C:808:ARG:HH21	2:C:820:ARG:NH2	1.90	0.70
2:M:132:ALA:HB1	2:M:632:ASN:ND2	2.07	0.70
3:D:766:ALA:HA	9:D:2465:HOH:O	1.91	0.70
2:C:358:ARG:HH22	2:C:374:ASN:HB3	1.56	0.70
3:D:41:ARG:HB3	9:D:2069:HOH:O	1.92	0.70
2:M:547:ILE:HG22	9:M:1643:HOH:O	1.92	0.70
3:N:661:MET:SD	3:N:673:ALA:HB1	2.32	0.70
1:K:10:VAL:HG12	1:K:12:THR:HG22	1.73	0.70
2:C:176:VAL:HG12	2:C:182:VAL:HG13	1.73	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:468:LEU:HB3	9:N:9195:HOH:O	1.92	0.70
2:C:8:ARG:HD2	2:C:10:ARG:NH1	2.06	0.70
1:K:78:ILE:HA	9:K:1830:HOH:O	1.90	0.70
2:M:437:ARG:CZ	2:M:488:ALA:HA	2.22	0.70
1:B:156:HIS:CE1	1:B:166:PRO:HB3	2.27	0.70
2:C:804:VAL:HB	2:C:824:ARG:HG3	1.74	0.70
2:C:948:GLU:HG3	2:C:955:PRO:HG3	1.71	0.70
4:O:85:LEU:HD23	4:O:86:GLN:H	1.56	0.70
1:A:18:ARG:HH12	1:A:88:ARG:CZ	2.03	0.70
3:D:427:VAL:HG23	9:D:9678:HOH:O	1.91	0.70
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.73	0.70
5:F:77:THR:O	5:F:81:VAL:HG23	1.90	0.70
2:M:329:GLY:HA3	2:M:489:THR:HG23	1.74	0.70
3:D:1232:PRO:HB3	3:D:1361:VAL:HG21	1.73	0.70
2:M:569:VAL:HG11	2:M:996:LYS:NZ	2.06	0.70
2:M:807:ARG:HH21	2:M:809:GLY:H	1.39	0.70
2:C:137:VAL:HG22	2:C:391:LEU:O	1.92	0.69
3:D:1351:GLU:OE1	3:D:1354:LYS:HD2	1.92	0.69
3:D:884:ARG:HG2	9:D:2443:HOH:O	1.92	0.69
3:N:683:ILE:HA	9:N:9232:HOH:O	1.91	0.69
3:N:1432:LYS:HD2	3:N:1433:SER:H	1.57	0.69
1:K:94:LEU:HD21	1:K:119:ASP:HB2	1.74	0.69
2:M:584:GLU:CD	2:M:584:GLU:H	1.95	0.69
5:P:269:ASN:HD21	5:P:273:ARG:NH2	1.89	0.69
5:P:178:ARG:HD3	9:P:476:HOH:O	1.93	0.69
2:C:1084:SER:O	2:C:1087:VAL:HG12	1.93	0.69
5:F:317:LEU:O	5:F:329:TYR:HB3	1.92	0.69
1:A:150:TYR:HE2	1:A:152:PRO:HG3	1.57	0.69
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.73	0.69
2:M:704:HIS:CB	2:M:831:ARG:HE	2.05	0.69
3:D:928:ALA:HA	3:D:931:LEU:HD12	1.74	0.69
4:E:30:LEU:O	4:E:35:PHE:HA	1.92	0.69
2:M:439:CYS:HB2	9:M:1182:HOH:O	1.92	0.69
2:C:322:VAL:HG12	9:C:9620:HOH:O	1.90	0.69
3:D:493:ARG:NE	3:D:1388:ARG:HB3	2.07	0.69
3:D:493:ARG:NH1	3:D:1390:LEU:HB2	2.07	0.69
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.26	0.69
3:N:553:ARG:HH12	5:P:211:ASP:HA	1.56	0.69
3:D:525:ARG:HA	3:D:538:SER:HB2	1.72	0.69
3:D:136:ASP:HB2	3:D:137:PRO:HD3	1.74	0.69
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.74	0.69
2:M:95:TYR:HA	9:M:1779:HOH:O	1.91	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1124:GLN:NE2	3:D:1135:ARG:HG2	2.07	0.69
2:C:264:PRO:HB3	2:C:289:THR:HG21	1.74	0.69
3:D:569:ASN:OD1	5:F:80:PRO:HB3	1.92	0.69
1:L:110:LYS:HG3	9:L:8102:HOH:O	1.92	0.69
1:K:54:THR:HG22	1:K:158:ILE:HG13	1.73	0.69
3:N:1412:LYS:O	3:N:1414:PRO:HD3	1.92	0.69
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.75	0.69
2:C:254:VAL:HG13	2:C:258:TYR:HE1	1.56	0.69
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.74	0.69
4:E:70:THR:HG21	4:E:72:ARG:CZ	2.22	0.69
3:N:786:ILE:HD13	3:N:908:LYS:HB3	1.75	0.69
2:M:1013:TYR:HE1	2:M:1020:PRO:HG3	1.57	0.69
1:A:177:VAL:O	2:C:864:GLY:HA3	1.92	0.69
1:K:9:PRO:HB2	1:L:224:TYR:HB3	1.72	0.69
3:D:699:VAL:H	3:D:756:GLN:NE2	1.90	0.69
2:C:704:HIS:CB	2:C:831:ARG:HE	2.04	0.69
2:C:630:ARG:HH22	2:C:707:ARG:HB2	1.57	0.69
1:A:14:ARG:NH2	1:A:24:VAL:HG23	2.07	0.69
3:N:720:LEU:H	3:N:720:LEU:HD12	1.57	0.69
4:O:54:LEU:HD11	9:O:3494:HOH:O	1.91	0.69
5:F:125:ASP:HA	5:F:128:ARG:HH12	1.55	0.69
3:N:1209:LEU:HD21	4:O:16:LYS:NZ	2.07	0.69
2:C:811:PRO:HD2	2:C:813:VAL:HG13	1.73	0.69
2:C:405:ARG:NH2	2:C:409:ARG:HH22	1.91	0.69
1:B:154:GLU:HB2	9:B:639:HOH:O	1.93	0.69
3:N:1040:GLY:O	3:N:1060:SER:HB3	1.93	0.69
3:D:153:LEU:CD1	3:D:157:GLU:HB2	2.23	0.69
3:N:1493:LYS:O	3:N:1497:GLU:HG2	1.93	0.69
1:A:86:VAL:HG21	1:A:202:ASP:O	1.93	0.69
3:N:1134:LEU:HD23	3:N:1135:ARG:O	1.93	0.69
2:M:148:PHE:HB3	9:M:1212:HOH:O	1.92	0.69
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.23	0.69
3:N:710:ARG:HH22	3:N:1210:SER:CB	2.06	0.69
3:D:207:PHE:HB3	3:D:208:PRO:HD2	1.75	0.69
2:M:432:ARG:HH12	3:N:1053:PHE:HZ	1.40	0.69
1:A:181:VAL:HG23	9:A:353:HOH:O	1.92	0.69
5:F:214:GLN:HA	5:F:217:ASN:HD22	1.58	0.68
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.73	0.68
2:M:773:LEU:O	2:M:777:ILE:HG13	1.93	0.68
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.74	0.68
3:D:186:VAL:HG21	3:D:213:VAL:HB	1.76	0.68
2:C:597:ALA:HA	9:C:2091:HOH:O	1.93	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:792:ILE:HG13	3:D:860:LEU:HD13	1.75	0.68
9:C:9290:HOH:O	3:D:621:LYS:HB2	1.92	0.68
2:C:448:ASN:HB3	2:C:452:ILE:HD11	1.75	0.68
5:P:342:VAL:HB	9:P:643:HOH:O	1.94	0.68
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.75	0.68
1:B:26:GLU:HG2	1:B:27:PRO:HA	1.74	0.68
2:C:480:THR:HG22	2:C:482:GLU:H	1.59	0.68
1:L:185:ARG:HA	9:L:5544:HOH:O	1.93	0.68
3:N:1147:ARG:O	3:N:1166:LEU:HD23	1.92	0.68
1:A:197:LEU:HD23	1:A:197:LEU:N	2.08	0.68
2:M:211:LEU:HD12	2:M:304:LEU:HD12	1.73	0.68
2:C:66:LEU:HD22	2:C:372:LEU:HD23	1.75	0.68
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.94	0.68
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.74	0.68
3:D:708:LEU:HD21	9:D:9706:HOH:O	1.93	0.68
3:N:1123:PHE:HA	3:N:1135:ARG:H	1.56	0.68
5:P:248:ASN:HA	5:P:251:ILE:HD12	1.75	0.68
2:M:399:ASN:O	2:M:402:SER:HB3	1.94	0.68
1:A:188:GLN:NE2	1:A:189:ARG:H	1.92	0.68
2:C:673:LEU:HD23	2:C:867:VAL:HA	1.75	0.68
3:D:1147:ARG:HB3	3:D:1188:VAL:HG21	1.74	0.68
3:N:100:ALA:HA	9:N:9341:HOH:O	1.94	0.68
2:M:1098:ASP:HB2	3:N:21:TRP:HZ2	1.58	0.68
2:M:580:MET:HB2	2:M:902:ILE:HD13	1.75	0.68
2:M:605:LYS:HG3	2:M:612:VAL:HB	1.76	0.68
3:N:616:GLN:HA	3:N:616:GLN:HE21	1.58	0.68
1:L:201:THR:HG22	1:L:203:GLY:H	1.58	0.68
3:N:1491:THR:O	3:N:1495:ILE:HD13	1.93	0.68
3:N:1232:PRO:HB3	3:N:1361:VAL:HG21	1.76	0.68
2:M:630:ARG:HH21	2:M:706:GLU:HA	1.56	0.68
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.23	0.68
3:N:207:PHE:HB3	3:N:208:PRO:HD2	1.75	0.68
3:N:171:LEU:HB2	3:N:390:PRO:HA	1.74	0.68
2:C:708:TYR:H	2:C:708:TYR:HD1	1.41	0.68
5:F:361:LEU:HD23	5:F:362:SER:H	1.57	0.68
2:C:626:ARG:N	2:C:639:GLN:HE21	1.91	0.68
3:D:462:GLN:HA	3:D:513:ILE:HD13	1.75	0.68
3:N:1243:THR:OG1	3:N:1253:THR:HB	1.93	0.68
2:C:534:VAL:H	2:C:538:GLN:NE2	1.92	0.68
2:M:39:ARG:CZ	2:M:39:ARG:HA	2.24	0.68
5:F:277:GLN:HG3	9:F:519:HOH:O	1.94	0.68
2:M:412:ALA:CB	2:M:451:LEU:HB3	2.23	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1465:ASN:HD21	3:D:1470:ARG:HD3	1.59	0.68
9:N:9525:HOH:O	5:P:80:PRO:HA	1.92	0.68
2:M:139:GLN:HE22	2:M:415:PRO:HG2	1.58	0.68
2:M:1092:LEU:HD13	2:M:1099:VAL:HG21	1.75	0.68
2:C:420:ARG:HG2	2:C:422:ARG:HG2	1.76	0.68
2:M:1088:LEU:HD12	3:N:613:ARG:NE	2.09	0.68
3:N:396:VAL:HG23	9:N:2199:HOH:O	1.94	0.68
4:E:70:THR:HG21	4:E:72:ARG:NH2	2.09	0.68
9:D:2022:HOH:O	5:F:314:PRO:HB3	1.92	0.68
3:D:422:ALA:H	3:D:427:VAL:HG11	1.58	0.68
2:C:274:ARG:HB2	2:C:285:LEU:HD13	1.74	0.68
2:M:551:GLU:HB3	2:M:906:PHE:HD2	1.58	0.68
2:C:498:GLN:NE2	3:D:1068:LEU:HD12	2.08	0.68
3:D:704:ARG:HE	3:D:705:ALA:H	1.42	0.68
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.76	0.68
5:F:137:GLY:HA3	9:F:428:HOH:O	1.93	0.68
5:P:337:HIS:H	5:P:337:HIS:CD2	2.10	0.68
3:D:476:GLU:HG2	9:D:2405:HOH:O	1.93	0.68
3:N:1036:ARG:HH21	3:N:1043:GLY:H	1.40	0.68
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.76	0.68
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.76	0.68
3:N:950:GLY:H	3:N:953:ASP:HB2	1.57	0.68
2:M:478:VAL:HA	2:M:506:ASN:O	1.94	0.68
2:C:808:ARG:HH21	2:C:820:ARG:HH22	1.42	0.68
2:M:672:VAL:HG23	2:M:868:ASP:HB2	1.75	0.68
1:L:60:ASP:HB2	9:L:3367:HOH:O	1.92	0.68
3:N:32:ILE:O	5:P:258:ILE:HG23	1.94	0.68
3:N:868:TYR:HD1	3:N:869:MET:H	1.39	0.68
1:B:210:ALA:HA	9:B:362:HOH:O	1.94	0.68
5:P:226:LYS:HB2	5:P:238:TYR:OH	1.94	0.68
2:C:1115:LEU:HD23	3:D:85:VAL:HA	1.76	0.67
3:N:183:GLU:HA	9:N:9906:HOH:O	1.94	0.67
4:O:25:LYS:HA	4:O:28:GLN:NE2	2.10	0.67
3:D:906:GLN:HB3	3:D:911:LEU:CD1	2.24	0.67
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.74	0.67
3:N:639:LEU:HB3	9:N:9694:HOH:O	1.93	0.67
5:P:260:ILE:HG23	5:P:264:MET:HB2	1.75	0.67
3:D:1122:LEU:HD23	3:D:1178:ALA:HB2	1.75	0.67
3:D:195:VAL:HG13	9:D:9321:HOH:O	1.95	0.67
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.75	0.67
2:M:139:GLN:O	2:M:333:ILE:HA	1.94	0.67
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.58	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:101:LEU:HD23	1:K:102:LYS:N	2.09	0.67
3:D:1251:ASP:O	3:D:1270:ALA:HB3	1.94	0.67
2:C:105:THR:HA	9:C:9902:HOH:O	1.94	0.67
3:N:598:ARG:HB3	3:N:598:ARG:HH11	1.59	0.67
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.76	0.67
1:A:28:LEU:HB3	9:A:371:HOH:O	1.94	0.67
3:D:162:ARG:HE	3:D:434:ARG:CZ	2.06	0.67
5:P:131:VAL:HG13	5:P:178:ARG:HG2	1.75	0.67
1:A:30:ARG:HB3	9:B:479:HOH:O	1.95	0.67
2:M:188:LYS:HB3	9:M:1279:HOH:O	1.93	0.67
3:N:478:LEU:HD21	3:N:500:ARG:HH21	1.58	0.67
2:M:136:ILE:HA	9:M:2131:HOH:O	1.94	0.67
2:M:379:GLU:O	2:M:383:ARG:HB3	1.94	0.67
3:D:1420:LEU:HD12	3:D:1421:LEU:H	1.58	0.67
5:F:152:ASP:HA	9:F:524:HOH:O	1.94	0.67
1:K:44:LEU:HD23	1:K:174:VAL:HG21	1.76	0.67
3:D:1109:GLU:OE1	3:D:1201:CYS:HB2	1.93	0.67
1:K:58:ILE:HB	1:K:61:VAL:HB	1.77	0.67
2:C:21:ILE:HD12	2:C:21:ILE:H	1.59	0.67
2:M:34:VAL:HB	2:M:38:LYS:HG3	1.76	0.67
2:C:971:LYS:HA	2:C:988:VAL:HA	1.76	0.67
3:N:571:LYS:HZ2	3:N:571:LYS:HB2	1.59	0.67
5:F:394:ARG:O	5:F:398:ARG:HG2	1.95	0.67
1:K:117:VAL:HB	1:K:120:VAL:CG1	2.24	0.67
3:D:1112:CYS:HB3	3:D:1201:CYS:SG	2.34	0.67
3:D:1412:LYS:O	3:D:1414:PRO:HD3	1.93	0.67
1:B:99:LEU:HG	9:B:336:HOH:O	1.93	0.67
4:E:4:PRO:HB3	9:E:145:HOH:O	1.95	0.67
2:C:1069:ALA:HA	9:C:9874:HOH:O	1.93	0.67
2:C:987:ILE:HG23	3:D:948:THR:CG2	2.22	0.67
3:D:58:CYS:HA	3:D:78:VAL:HG11	1.76	0.67
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.93	0.67
2:C:571:LEU:HD21	2:C:700:TYR:HD2	1.59	0.67
1:K:67:THR:HG21	2:M:609:ASN:HD21	1.60	0.67
5:F:401:GLU:O	5:F:405:LEU:HB3	1.94	0.67
3:N:185:VAL:HG22	9:N:2196:HOH:O	1.94	0.67
3:N:1031:ASN:HB2	3:N:1034:GLN:CD	2.15	0.67
2:C:329:GLY:N	2:C:488:ALA:HB3	2.09	0.67
2:C:707:ARG:HG3	2:C:826:TYR:CE1	2.30	0.67
3:N:699:VAL:H	3:N:756:GLN:NE2	1.91	0.67
2:C:444:PRO:HG2	2:C:452:ILE:HD12	1.76	0.67
2:M:1067:TYR:CB	5:P:341:PRO:HB3	2.24	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:208:PRO:HB2	3:N:395:VAL:HG22	1.76	0.67
5:P:256:ARG:HE	5:P:260:ILE:HD12	1.59	0.67
3:D:1410:GLU:HA	9:D:9114:HOH:O	1.93	0.67
3:D:833:GLU:HB2	9:D:9131:HOH:O	1.94	0.67
4:E:60:ALA:O	4:E:63:TRP:HB2	1.95	0.67
3:D:473:LEU:HD21	3:D:495:ARG:NH2	2.10	0.67
2:C:643:VAL:HB	9:C:2131:HOH:O	1.93	0.67
5:P:208:SER:HB3	5:P:211:ASP:OD2	1.95	0.67
3:D:525:ARG:HB2	3:D:541:ASN:ND2	2.09	0.67
3:D:584:ASN:HB2	3:D:602:SER:HB3	1.76	0.67
2:M:1018:GLN:NE2	2:M:1063:ARG:HH22	1.93	0.67
2:C:266:ARG:HB2	9:C:9463:HOH:O	1.95	0.67
3:N:12:LEU:HD11	3:N:512:MET:HG2	1.76	0.67
2:C:557:ARG:HB2	9:C:9255:HOH:O	1.95	0.67
2:M:577:PRO:HA	2:M:671:ASN:HD21	1.60	0.67
3:N:1103:HIS:CD2	3:N:1463:LYS:H	2.12	0.67
3:D:556:LYS:HD2	9:D:9137:HOH:O	1.95	0.67
2:M:679:PHE:HB3	9:M:1161:HOH:O	1.95	0.67
5:P:325:LYS:HE3	9:P:606:HOH:O	1.94	0.67
1:L:2:LEU:HD12	1:L:3:ASP:N	2.09	0.67
3:D:561:GLY:HA2	5:F:132:ARG:CZ	2.25	0.67
1:A:67:THR:HG21	2:C:627:ARG:HE	1.59	0.67
5:P:85:LEU:HA	5:P:88:ILE:HD12	1.75	0.67
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.75	0.67
3:N:436:GLU:HB2	3:N:445:ARG:HB3	1.75	0.67
3:N:1036:ARG:HH21	3:N:1043:GLY:N	1.93	0.67
2:M:464:LEU:HB2	9:M:1456:HOH:O	1.94	0.67
3:D:1046:GLN:HG3	9:D:2290:HOH:O	1.94	0.67
1:L:128:HIS:HA	9:L:8102:HOH:O	1.94	0.67
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.77	0.67
2:C:58:ASP:O	2:C:59:LYS:HG2	1.95	0.67
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.95	0.67
2:C:200:LEU:HB2	9:C:9470:HOH:O	1.92	0.67
2:C:301:GLU:HB3	9:C:2244:HOH:O	1.95	0.67
5:P:369:LEU:HD11	5:P:401:GLU:HB2	1.76	0.67
2:M:557:ARG:HG3	2:M:560:MET:SD	2.35	0.67
2:M:807:ARG:HH21	2:M:809:GLY:N	1.92	0.67
3:N:1104:GLU:HA	3:N:1461:GLY:HA2	1.77	0.67
3:D:1383:ASP:HB2	3:D:1416:ALA:HB3	1.75	0.67
2:C:305:PRO:HA	2:C:308:ARG:HB3	1.76	0.66
3:N:838:ARG:HG2	3:N:865:THR:OG1	1.96	0.66
2:C:630:ARG:NH2	2:C:705:ILE:HG22	2.10	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:139:GLN:HA	2:C:411:SER:O	1.95	0.66
3:D:1406:ARG:HG3	3:D:1412:LYS:HG3	1.76	0.66
2:C:347:GLY:HA2	2:C:350:ARG:HD2	1.77	0.66
3:N:159:ARG:NH1	3:N:159:ARG:HB2	2.10	0.66
2:C:89:THR:O	2:C:91:GLN:HG3	1.94	0.66
2:C:233:GLU:OE1	2:C:237:ARG:HD3	1.94	0.66
3:N:402:PRO:HG2	3:N:444:VAL:HG11	1.77	0.66
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.76	0.66
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.76	0.66
3:D:739:ASP:HB2	3:D:741:ASP:OD1	1.95	0.66
1:K:206:THR:HB	1:K:209:GLU:OE1	1.94	0.66
3:D:486:ARG:HD3	3:D:489:ARG:HD3	1.78	0.66
1:L:7:LYS:HG3	9:L:2277:HOH:O	1.93	0.66
3:N:1343:ALA:HA	9:N:9264:HOH:O	1.95	0.66
1:K:48:ILE:HG22	1:K:173:PRO:HD2	1.75	0.66
3:N:706:PRO:HA	9:N:2193:HOH:O	1.94	0.66
3:D:591:VAL:HG11	9:D:9714:HOH:O	1.94	0.66
3:N:550:ARG:NE	3:N:573:MET:HB3	2.10	0.66
2:C:771:GLU:O	2:C:775:ARG:HG2	1.96	0.66
3:D:478:LEU:HD22	3:D:1388:ARG:CZ	2.24	0.66
3:D:215:TYR:O	3:D:389:GLU:HB2	1.94	0.66
2:M:368:THR:HB	2:M:369:PRO:HD3	1.77	0.66
4:O:25:LYS:HA	4:O:28:GLN:HE21	1.60	0.66
3:N:28:LYS:HG3	3:N:29:PRO:HD2	1.75	0.66
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.78	0.66
2:C:341:THR:O	2:C:345:ARG:HG2	1.96	0.66
2:C:430:VAL:HG13	3:D:1075:HIS:HA	1.78	0.66
2:M:333:ILE:HD13	2:M:467:ILE:HG13	1.76	0.66
5:P:102:LEU:O	5:P:106:VAL:HG23	1.95	0.66
2:M:700:TYR:HB3	2:M:833:LEU:HD13	1.77	0.66
3:D:1341:PRO:HA	3:D:1344:VAL:HG23	1.76	0.66
3:D:171:LEU:HB2	3:D:390:PRO:HA	1.77	0.66
2:C:135:VAL:HG11	2:C:407:LYS:HA	1.76	0.66
3:N:14:SER:H	3:N:17:LYS:HZ1	1.40	0.66
2:M:524:VAL:CG1	2:M:528:GLU:HB2	2.25	0.66
2:M:752:GLY:C	2:M:791:ARG:HH12	1.99	0.66
1:K:54:THR:HG21	9:K:6055:HOH:O	1.95	0.66
2:M:399:ASN:HB3	2:M:568:ALA:O	1.94	0.66
2:M:399:ASN:OD1	2:M:668:LEU:HD23	1.95	0.66
3:N:407:VAL:HG23	3:N:408:GLU:H	1.61	0.66
3:N:851:LEU:HD23	3:N:851:LEU:N	2.11	0.66
1:K:115:LEU:HB3	9:K:1554:HOH:O	1.95	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:213:ILE:HG22	5:F:217:ASN:HD21	1.59	0.66
3:N:52:PRO:CB	3:N:80:VAL:HG13	2.25	0.66
3:D:704:ARG:NE	3:D:705:ALA:H	1.92	0.66
3:N:1094:LEU:O	3:N:1098:LEU:HD13	1.95	0.66
2:C:172:ILE:H	2:C:172:ILE:HD12	1.61	0.66
1:L:97:VAL:HG11	1:L:120:VAL:HG21	1.78	0.66
3:N:676:MET:HG3	9:N:9172:HOH:O	1.95	0.66
4:O:30:LEU:O	4:O:35:PHE:HA	1.94	0.66
5:P:294:ALA:HB2	9:P:703:HOH:O	1.95	0.66
2:C:573:ARG:HB3	2:C:573:ARG:NH1	2.10	0.66
2:C:517:ARG:NH1	2:C:522:VAL:HG11	2.10	0.66
3:D:697:GLY:HA3	9:E:163:HOH:O	1.96	0.66
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.30	0.66
3:N:153:LEU:HD11	3:N:158:TYR:N	2.10	0.66
2:C:1051:GLU:HG2	2:C:1056:LYS:HD2	1.77	0.66
2:M:437:ARG:NH2	2:M:488:ALA:HA	2.11	0.66
2:M:129:ILE:HG12	2:M:386:PHE:HB3	1.76	0.66
2:M:36:PRO:HB3	9:M:1400:HOH:O	1.95	0.66
4:O:32:ARG:HD2	9:O:3515:HOH:O	1.96	0.66
2:C:478:VAL:HG23	9:C:9012:HOH:O	1.95	0.66
3:D:156:GLU:HA	3:D:159:ARG:NH1	2.11	0.66
4:O:88:GLU:HA	4:O:91:ARG:HD3	1.77	0.66
3:N:966:GLU:HA	3:N:969:ARG:NH1	2.11	0.66
3:N:463:GLN:HA	9:N:9553:HOH:O	1.94	0.66
5:P:228:GLU:HB3	9:P:688:HOH:O	1.95	0.66
3:D:1049:SER:HB3	9:D:9906:HOH:O	1.96	0.66
3:D:9:ARG:HA	3:D:1434:TRP:HH2	1.60	0.66
5:F:321:ILE:HB	5:F:327:SER:OG	1.96	0.66
3:D:908:LYS:CB	3:D:1027:GLY:HA3	2.26	0.66
2:M:328:LEU:H	2:M:433:THR:HG21	1.61	0.66
5:P:364:ARG:NH1	5:P:392:VAL:HG21	2.11	0.66
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.78	0.66
3:D:1270:ALA:HB1	9:D:9354:HOH:O	1.96	0.66
2:C:21:ILE:HG13	9:C:9635:HOH:O	1.95	0.66
1:K:52:ALA:HA	9:K:3135:HOH:O	1.96	0.66
2:M:442:GLU:OE1	2:M:454:SER:HB2	1.96	0.66
5:P:166:LEU:O	5:P:171:LYS:HB2	1.96	0.66
3:N:30:GLU:HB3	3:N:40:GLU:HG2	1.77	0.66
5:F:367:MET:HA	5:F:370:LYS:HZ3	1.61	0.66
2:M:691:SER:HB2	2:M:858:MET:SD	2.36	0.66
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.77	0.66
2:M:927:GLY:HA2	2:M:930:LYS:HE3	1.78	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:17:PRO:HB2	9:C:9051:HOH:O	1.94	0.66
3:N:978:TYR:HA	9:N:9792:HOH:O	1.95	0.66
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.60	0.66
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.17	0.66
2:C:859:PRO:O	2:C:867:VAL:HG22	1.96	0.66
3:D:1144:LEU:HB3	3:D:1166:LEU:HD11	1.77	0.66
5:F:263:HIS:HA	9:F:739:HOH:O	1.96	0.66
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.96	0.66
1:B:148:VAL:HG22	9:B:473:HOH:O	1.96	0.66
2:C:663:ASN:HB3	9:C:9386:HOH:O	1.96	0.66
2:C:640:ARG:HB2	2:C:642:ARG:HH22	1.60	0.66
1:K:110:LYS:HB2	1:K:112:ARG:HD3	1.78	0.66
3:D:795:VAL:HG23	3:D:879:ARG:NH1	2.10	0.65
3:D:1336:LEU:HA	3:D:1344:VAL:HG22	1.77	0.65
1:B:114:PHE:HB3	9:B:336:HOH:O	1.96	0.65
5:P:300:ASP:HB3	9:P:517:HOH:O	1.96	0.65
5:P:142:ARG:HH11	5:P:142:ARG:HB3	1.61	0.65
2:M:139:GLN:HB3	2:M:334:ARG:HB2	1.77	0.65
3:N:165:LYS:HE2	3:N:165:LYS:HA	1.78	0.65
1:B:84:GLU:HG3	1:B:127:LEU:HD21	1.78	0.65
1:K:173:PRO:HA	1:K:202:ASP:OD2	1.95	0.65
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.31	0.65
2:C:715:THR:HA	9:C:9273:HOH:O	1.95	0.65
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.78	0.65
1:L:94:LEU:HD21	1:L:119:ASP:HB2	1.76	0.65
3:N:785:ILE:HD12	3:N:785:ILE:H	1.61	0.65
3:D:396:VAL:HG21	3:D:447:VAL:HB	1.78	0.65
2:C:108:ILE:H	2:C:108:ILE:HD12	1.62	0.65
2:C:877:PRO:HG2	3:D:1023:MET:SD	2.36	0.65
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.78	0.65
2:C:1000:MET:HB3	9:C:9943:HOH:O	1.96	0.65
5:P:317:LEU:O	5:P:329:TYR:HB3	1.96	0.65
3:N:1124:GLN:N	3:N:1133:ARG:O	2.28	0.65
1:K:101:LEU:HD12	1:K:114:PHE:CD1	2.30	0.65
2:M:203:ASP:HB2	9:M:1502:HOH:O	1.95	0.65
1:A:206:THR:HG23	1:A:209:GLU:H	1.61	0.65
2:C:1009:SER:HB2	3:D:651:GLU:O	1.96	0.65
3:N:611:GLN:HA	3:N:615:ARG:HD3	1.77	0.65
9:M:1817:HOH:O	3:N:618:LEU:HD22	1.96	0.65
1:K:130:ALA:HB1	9:K:2174:HOH:O	1.96	0.65
3:N:1090:ASP:O	3:N:1093:TYR:HB3	1.97	0.65
3:N:178:LEU:HG	3:N:200:ASP:H	1.61	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.78	0.65
5:F:365:GLU:CD	5:F:397:ILE:HA	2.16	0.65
3:D:953:ASP:HA	9:D:9280:HOH:O	1.95	0.65
3:N:119:SER:HB2	3:N:123:LEU:HD12	1.79	0.65
1:L:138:LEU:HA	9:L:2434:HOH:O	1.96	0.65
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.31	0.65
3:N:1103:HIS:HD2	3:N:1463:LYS:H	1.43	0.65
1:B:175:ARG:HD3	9:B:363:HOH:O	1.95	0.65
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.17	0.65
3:D:530:VAL:HA	9:D:9200:HOH:O	1.95	0.65
2:M:436:GLY:HA2	2:M:538:GLN:O	1.97	0.65
2:M:385:PHE:HA	9:M:2038:HOH:O	1.96	0.65
2:M:1067:TYR:HB2	5:P:341:PRO:HB3	1.79	0.65
1:A:198:ARG:HB2	1:A:200:TRP:CH2	2.31	0.65
1:B:148:VAL:HA	9:B:484:HOH:O	1.95	0.65
1:A:107:LYS:HD3	9:A:441:HOH:O	1.95	0.65
4:O:39:VAL:HG21	4:O:72:ARG:HG3	1.79	0.65
1:B:52:ALA:HB1	9:B:421:HOH:O	1.96	0.65
5:P:220:LEU:O	5:P:224:VAL:HG23	1.96	0.65
2:M:601:GLY:HA2	2:M:616:GLU:HG2	1.77	0.65
2:M:392:SER:HA	9:M:2131:HOH:O	1.96	0.65
2:C:573:ARG:HH11	2:C:573:ARG:HB3	1.60	0.65
2:M:206:THR:HG23	9:M:1678:HOH:O	1.95	0.65
3:D:1277:ILE:HD13	3:D:1301:LYS:HB2	1.78	0.65
5:F:419:ARG:HB3	9:F:881:HOH:O	1.96	0.65
2:M:705:ILE:HG13	9:M:1341:HOH:O	1.95	0.65
2:M:189:ARG:HG2	9:M:1250:HOH:O	1.94	0.65
3:N:820:GLU:HG2	9:N:2025:HOH:O	1.95	0.65
2:M:391:LEU:HD23	9:M:2131:HOH:O	1.95	0.65
2:C:244:PRO:HG2	2:C:246:ASP:OD2	1.97	0.65
2:M:707:ARG:HD2	2:M:824:ARG:HD3	1.79	0.65
3:N:586:ARG:HA	3:N:586:ARG:HE	1.62	0.65
2:C:297:GLU:HA	9:C:2292:HOH:O	1.97	0.65
2:C:660:ALA:HB1	2:C:667:ALA:O	1.97	0.65
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.77	0.65
3:D:605:ASP:HB3	9:D:2354:HOH:O	1.96	0.65
2:M:524:VAL:HG13	2:M:528:GLU:HB2	1.78	0.65
5:F:261:PRO:HB2	9:F:740:HOH:O	1.96	0.65
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.78	0.65
1:A:177:VAL:HG12	9:A:348:HOH:O	1.97	0.65
2:M:1070:ILE:HD13	9:N:9414:HOH:O	1.95	0.65
2:M:1081:VAL:HG23	9:M:2183:HOH:O	1.97	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:305:PRO:HG3	2:C:308:ARG:NH2	2.12	0.65
2:C:199:VAL:HG21	9:C:2185:HOH:O	1.96	0.65
5:F:358:LEU:HD11	5:F:370:LYS:NZ	2.11	0.65
2:M:909:ALA:HB1	2:M:914:ILE:HD11	1.77	0.65
5:P:321:ILE:HG22	5:P:322:GLY:H	1.61	0.65
3:N:1314:LYS:HD3	3:N:1314:LYS:H	1.61	0.65
5:F:134:LYS:HD3	9:F:603:HOH:O	1.96	0.65
3:N:1146:GLY:HA3	3:N:1207:TYR:HB2	1.79	0.65
2:M:715:THR:HB	2:M:717:LEU:HG	1.79	0.65
5:P:148:LYS:HG2	9:P:660:HOH:O	1.97	0.65
2:C:332:ARG:NE	2:C:464:LEU:HD11	2.11	0.65
3:D:567:ILE:HG22	3:D:571:LYS:NZ	2.12	0.65
1:A:14:ARG:HH22	1:A:24:VAL:HG23	1.61	0.65
1:L:65:PHE:CD1	3:N:813:LEU:HD22	2.32	0.65
3:N:677:LEU:HD21	9:N:9954:HOH:O	1.96	0.65
3:N:1123:PHE:HA	3:N:1134:LEU:HA	1.78	0.65
1:A:32:PHE:HB2	9:A:371:HOH:O	1.97	0.65
2:C:511:GLU:O	2:C:526:PRO:HD3	1.97	0.65
3:N:33:ASN:OD1	5:P:259:ARG:HB3	1.97	0.65
2:M:244:PRO:HG2	2:M:246:ASP:OD2	1.97	0.65
2:C:113:VAL:HG22	9:C:9942:HOH:O	1.97	0.65
2:C:141:HIS:HB3	2:C:418:LEU:HB3	1.78	0.64
2:M:583:LEU:O	2:M:587:VAL:HG23	1.96	0.64
2:M:1013:TYR:O	5:P:334:PRO:HA	1.98	0.64
2:C:405:ARG:HD2	2:C:442:GLU:OE1	1.97	0.64
1:A:198:ARG:HG2	9:A:399:HOH:O	1.97	0.64
1:A:19:GLU:HG2	9:A:420:HOH:O	1.97	0.64
3:N:1258:ARG:O	3:N:1262:LEU:HD13	1.97	0.64
2:M:841:ASN:HD21	2:M:845:ASN:H	1.41	0.64
2:C:22:GLN:NE2	2:C:336:VAL:HG21	2.11	0.64
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.78	0.64
2:M:1077:PRO:HD2	9:M:1399:HOH:O	1.97	0.64
5:F:369:LEU:HD23	9:F:706:HOH:O	1.97	0.64
2:C:516:ARG:HD3	2:C:521:PRO:HA	1.78	0.64
2:C:555:ALA:HB2	3:D:1070:TYR:CE2	2.33	0.64
3:N:963:TYR:CD2	3:N:1002:LYS:HB3	2.33	0.64
3:D:153:LEU:HD11	3:D:158:TYR:N	2.12	0.64
2:M:633:GLN:NE2	2:M:633:GLN:H	1.94	0.64
2:M:1101:THR:HB	3:N:5:VAL:HG13	1.79	0.64
2:M:471:TYR:CE2	2:M:496:ILE:HG21	2.32	0.64
1:B:30:ARG:HH21	2:C:854:PRO:HG3	1.62	0.64
3:N:505:SER:HB2	9:N:9588:HOH:O	1.96	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:108:VAL:HB	9:D:9934:HOH:O	1.95	0.64
1:A:160:ASP:HB2	9:A:396:HOH:O	1.96	0.64
3:N:434:ARG:HB2	3:N:447:VAL:HG13	1.79	0.64
2:M:412:ALA:HB2	2:M:451:LEU:HB3	1.78	0.64
4:E:67:GLU:OE1	4:E:73:LEU:HD11	1.97	0.64
5:P:323:ASP:HB3	5:P:325:LYS:NZ	2.13	0.64
3:D:443:VAL:HG12	3:D:445:ARG:HD2	1.79	0.64
2:C:911:GLU:O	2:C:915:LYS:HG2	1.98	0.64
2:C:648:ARG:HB3	9:C:9104:HOH:O	1.96	0.64
2:C:236:ILE:HG13	9:C:9361:HOH:O	1.95	0.64
2:C:1091:GLU:HG2	3:D:606:ILE:HG21	1.78	0.64
3:D:584:ASN:HB3	9:D:2028:HOH:O	1.97	0.64
1:L:2:LEU:HD12	1:L:3:ASP:H	1.61	0.64
2:C:64:LEU:HD11	9:C:9063:HOH:O	1.96	0.64
3:N:57:GLU:HG3	3:N:64:LYS:HD2	1.80	0.64
2:C:886:LEU:HD23	3:D:951:ILE:HG13	1.79	0.64
2:M:184:MET:HE1	2:M:186:VAL:HG13	1.80	0.64
2:M:19:THR:HG22	2:M:22:GLN:HB2	1.78	0.64
2:M:163:ILE:HB	2:M:171:TRP:CH2	2.32	0.64
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.27	0.64
3:N:1156:LEU:HD21	3:N:1177:ALA:HA	1.79	0.64
2:C:193:LEU:HD23	2:C:307:LEU:HD13	1.79	0.64
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.79	0.64
2:C:113:VAL:HG13	9:C:9301:HOH:O	1.97	0.64
3:D:531:ASP:C	3:D:533:GLY:H	1.98	0.64
2:C:841:ASN:HD21	2:C:845:ASN:H	1.45	0.64
4:E:48:MET:N	4:E:54:LEU:HB2	2.11	0.64
3:D:421:LEU:HG	9:D:9719:HOH:O	1.96	0.64
3:D:1272:ALA:HA	3:D:1326:THR:HB	1.79	0.64
3:D:1040:GLY:O	3:D:1060:SER:HB3	1.97	0.64
5:P:363:GLU:HA	5:P:367:MET:CE	2.28	0.64
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.80	0.64
3:N:1019:PRO:O	3:N:1023:MET:HG3	1.98	0.64
3:D:1046:GLN:HG2	9:D:2120:HOH:O	1.97	0.64
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.61	0.64
3:D:1236:LEU:HA	3:D:1359:GLN:HE22	1.62	0.64
4:O:60:ALA:O	4:O:63:TRP:HB2	1.96	0.64
3:D:149:LYS:HB2	9:D:2218:HOH:O	1.96	0.64
9:M:1244:HOH:O	3:N:651:GLU:HG3	1.97	0.64
3:D:783:ARG:NH1	3:D:1029:ARG:HG2	2.13	0.64
2:C:634:GLY:HA3	9:C:9222:HOH:O	1.97	0.64
3:D:15:PRO:HB2	9:D:9195:HOH:O	1.97	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.33	0.64
3:D:730:PRO:HA	3:D:733:CYS:SG	2.37	0.64
2:C:1008:ARG:HE	2:C:1028:GLY:CA	2.09	0.64
5:F:356:LYS:O	5:F:360:LYS:HG2	1.97	0.64
3:D:679:ARG:HB2	3:D:682:ASP:OD1	1.98	0.64
3:D:131:LYS:O	3:D:133:ILE:HD13	1.98	0.64
1:B:151:VAL:HG13	1:B:155:LYS:HE2	1.80	0.64
2:C:549:PHE:CD2	2:C:886:LEU:HB3	2.33	0.64
2:C:338:GLU:HA	2:C:341:THR:HG22	1.80	0.64
2:M:983:ILE:HA	9:N:9416:HOH:O	1.98	0.64
2:M:549:PHE:CZ	2:M:886:LEU:HD22	2.33	0.64
2:M:660:ALA:HB1	2:M:667:ALA:O	1.97	0.64
4:O:82:GLU:HB3	9:O:4692:HOH:O	1.98	0.64
5:F:402:ASN:HA	5:F:405:LEU:HD22	1.80	0.64
2:M:839:LEU:HD21	2:M:849:VAL:HG23	1.78	0.64
3:D:633:VAL:HB	3:D:740:PHE:CE1	2.33	0.64
4:E:42:PRO:HB3	9:E:201:HOH:O	1.98	0.64
1:B:56:VAL:HG13	1:B:142:VAL:HG12	1.80	0.64
2:M:232:GLU:HA	2:M:235:LEU:HD12	1.80	0.64
5:P:163:LEU:HB3	5:P:174:LEU:CG	2.26	0.64
3:N:681:ARG:HH11	3:N:681:ARG:HB3	1.62	0.64
2:C:93:PRO:HG3	2:C:117:HIS:HE1	1.63	0.64
5:F:423:ASP:HB3	9:F:486:HOH:O	1.96	0.64
5:F:352:GLU:O	5:F:356:LYS:HG3	1.96	0.64
1:L:108:GLU:HG2	9:L:2371:HOH:O	1.98	0.64
2:C:676:ILE:O	2:C:676:ILE:HG23	1.97	0.64
2:C:470:PRO:HG2	2:C:538:GLN:OE1	1.98	0.64
3:N:427:VAL:CG2	3:N:435:VAL:HB	2.28	0.64
3:D:1166:LEU:HD12	3:D:1171:VAL:HG22	1.78	0.64
2:C:318:PRO:HA	9:C:9945:HOH:O	1.98	0.64
3:D:655:PRO:HA	3:D:658:LEU:HD12	1.78	0.64
3:N:616:GLN:NE2	3:N:619:LEU:HB2	2.13	0.64
2:M:707:ARG:HE	2:M:824:ARG:HG2	1.62	0.64
2:M:704:HIS:HB2	2:M:831:ARG:HE	1.63	0.64
2:M:151:ASP:HB3	9:M:2281:HOH:O	1.96	0.64
3:N:426:LYS:HG3	3:N:434:ARG:NH1	2.13	0.64
5:F:93:LEU:HD11	5:F:102:LEU:HD12	1.80	0.64
2:M:326:ASP:HB2	2:M:431:HIS:ND1	2.13	0.64
3:D:634:GLY:O	3:D:637:LEU:HB3	1.97	0.64
1:A:195:LEU:HG	1:A:197:LEU:CD2	2.28	0.64
1:B:47:SER:O	1:B:49:PRO:N	2.31	0.64
2:M:244:PRO:HD2	2:M:245:GLY:H	1.62	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:144:PRO:HA	2:C:163:ILE:HG12	1.78	0.64
2:C:56:GLU:HB3	9:C:9080:HOH:O	1.98	0.64
2:M:516:ARG:NE	3:N:1068:LEU:HD13	2.12	0.64
3:D:1304:LYS:HD2	9:D:2220:HOH:O	1.96	0.64
3:D:1279:GLY:O	3:D:1318:TYR:HA	1.98	0.64
2:C:433:THR:HG21	2:C:488:ALA:CB	2.27	0.64
3:D:906:GLN:HB3	3:D:911:LEU:HD11	1.80	0.64
3:N:558:LEU:HB3	9:N:9936:HOH:O	1.98	0.64
2:C:397:GLU:H	2:C:633:GLN:HE22	1.44	0.64
3:D:625:TYR:O	3:D:749:VAL:HG23	1.98	0.64
3:N:588:GLY:HA3	9:N:9410:HOH:O	1.98	0.64
2:M:971:LYS:HA	2:M:988:VAL:HA	1.79	0.64
2:C:627:ARG:HG3	2:C:628:PHE:H	1.62	0.63
3:D:16:GLU:HA	9:D:9380:HOH:O	1.97	0.63
1:L:80:LEU:HB3	3:N:867:ARG:NH2	2.13	0.63
1:A:11:PHE:CD1	1:B:225:PHE:HA	2.33	0.63
3:D:965:GLU:HB2	9:D:9122:HOH:O	1.98	0.63
2:M:758:ARG:HB3	2:M:788:THR:O	1.98	0.63
2:C:578:VAL:HG11	2:C:991:GLN:HB3	1.80	0.63
3:N:1209:LEU:HD22	3:N:1211:MET:HB3	1.79	0.63
3:N:850:LEU:H	3:N:850:LEU:HD12	1.63	0.63
3:N:1301:LYS:HD2	9:N:9125:HOH:O	1.99	0.63
5:P:260:ILE:HD11	5:P:310:ILE:HG22	1.79	0.63
1:A:48:ILE:HG22	1:A:173:PRO:HD2	1.80	0.63
1:A:132:LEU:HG	9:A:468:HOH:O	1.98	0.63
2:M:148:PHE:HZ	2:M:281:LEU:HD13	1.64	0.63
3:N:52:PRO:CG	3:N:78:VAL:HG13	2.28	0.63
2:M:150:PRO:HD3	9:M:1445:HOH:O	1.98	0.63
3:N:1112:CYS:HB3	3:N:1201:CYS:SG	2.37	0.63
5:P:403:LYS:NZ	5:P:406:ARG:HD2	2.13	0.63
4:E:90:GLU:HG2	9:E:191:HOH:O	1.98	0.63
2:M:342:ASP:O	2:M:346:VAL:HG23	1.97	0.63
3:N:1350:GLU:O	3:N:1354:LYS:HG2	1.98	0.63
3:D:27:GLU:O	3:D:28:LYS:HD2	1.97	0.63
1:K:186:LEU:HB3	9:K:1397:HOH:O	1.97	0.63
2:C:356:ARG:HA	9:C:9403:HOH:O	1.98	0.63
3:D:1394:VAL:HB	3:D:1397:LYS:HD2	1.80	0.63
3:D:1432:LYS:HG3	3:D:1433:SER:H	1.64	0.63
1:A:37:GLY:HA3	1:A:179:PHE:CD1	2.34	0.63
9:D:2160:HOH:O	4:E:60:ALA:HB3	1.98	0.63
3:N:1272:ALA:HA	3:N:1326:THR:HB	1.79	0.63
2:C:162:ILE:HD12	2:C:172:ILE:HB	1.80	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:762:GLN:HA	9:N:9292:HOH:O	1.98	0.63
1:B:86:VAL:HG21	9:B:450:HOH:O	1.98	0.63
5:P:207:LEU:HB3	5:P:212:LEU:HG	1.81	0.63
2:C:432:ARG:HH11	3:D:1048:PRO:CD	2.11	0.63
2:M:290:LEU:H	2:M:290:LEU:HD23	1.63	0.63
3:D:9:ARG:NH1	3:D:506:GLY:HA2	2.09	0.63
5:P:370:LYS:HZ3	5:P:370:LYS:HB3	1.64	0.63
1:B:166:PRO:HD3	9:B:334:HOH:O	1.99	0.63
2:C:139:GLN:OE1	2:C:415:PRO:HD3	1.98	0.63
3:D:675:ARG:O	3:D:678:GLU:HG2	1.97	0.63
2:C:285:LEU:HD12	2:C:288:ARG:O	1.97	0.63
2:C:260:LEU:HA	2:C:291:ALA:CB	2.29	0.63
3:D:213:VAL:HG22	3:D:214:GLU:H	1.64	0.63
5:P:351:SER:O	5:P:355:GLU:HB2	1.98	0.63
2:C:569:VAL:HG23	2:C:635:THR:HG22	1.80	0.63
2:C:838:LYS:HD2	2:C:846:LYS:HZ2	1.62	0.63
2:M:89:THR:O	2:M:91:GLN:HG3	1.99	0.63
5:F:405:LEU:HD23	5:F:406:ARG:HG3	1.80	0.63
3:N:476:GLU:HG2	9:N:9517:HOH:O	1.97	0.63
2:C:732:ALA:HB2	9:C:9589:HOH:O	1.97	0.63
2:C:701:THR:HG23	2:C:832:LYS:HA	1.81	0.63
3:N:1406:ARG:HA	9:N:9360:HOH:O	1.98	0.63
2:M:333:ILE:CD1	2:M:467:ILE:HG13	2.29	0.63
1:K:218:LEU:HD23	1:L:222:LEU:HD21	1.79	0.63
3:D:115:LEU:HD22	3:D:502:PHE:HE1	1.63	0.63
3:N:416:ALA:HB2	9:N:9328:HOH:O	1.97	0.63
2:M:511:GLU:O	2:M:526:PRO:HD3	1.97	0.63
2:M:915:LYS:HE2	9:M:1347:HOH:O	1.96	0.63
3:N:53:ILE:HG23	3:N:54:LYS:H	1.63	0.63
1:L:226:SER:O	1:L:228:PRO:HD3	1.98	0.63
4:O:86:GLN:O	4:O:90:GLU:HG3	1.97	0.63
3:N:1123:PHE:HA	3:N:1135:ARG:N	2.13	0.63
2:C:146:VAL:HG22	2:C:162:ILE:HA	1.81	0.63
4:O:51:LEU:HB3	9:O:1519:HOH:O	1.98	0.63
3:N:1036:ARG:NH2	3:N:1043:GLY:H	1.96	0.63
3:D:540:LEU:HD23	3:D:544:TYR:HE2	1.63	0.63
2:C:52:PHE:CG	2:C:68:PHE:HB2	2.34	0.63
2:C:876:VAL:HG11	3:D:949:ILE:HG21	1.81	0.63
3:D:1147:ARG:HB3	3:D:1188:VAL:CG2	2.29	0.63
3:D:1171:VAL:HG11	9:D:2295:HOH:O	1.98	0.63
2:M:534:VAL:H	2:M:538:GLN:HE22	1.44	0.63
2:C:583:LEU:HA	9:C:9499:HOH:O	1.98	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:18:LEU:HD23	2:M:404:LEU:HD21	1.80	0.63
1:L:192:LEU:HB3	9:L:7412:HOH:O	1.97	0.63
1:K:110:LYS:HG2	9:K:1619:HOH:O	1.99	0.63
2:M:61:LYS:HE3	9:M:1475:HOH:O	1.99	0.63
3:N:169:TYR:HD1	3:N:169:TYR:H	1.47	0.63
3:N:623:VAL:HG11	9:N:9408:HOH:O	1.97	0.63
2:M:556:ASN:HA	9:M:1583:HOH:O	1.99	0.63
3:D:1364:HIS:CE1	3:D:1366:LYS:HG3	2.34	0.62
1:L:36:LEU:O	1:L:39:PRO:HD2	1.99	0.62
2:C:196:LEU:HD23	2:C:200:LEU:HD11	1.81	0.62
3:D:796:ARG:HH11	3:D:861:GLN:HB2	1.64	0.62
2:M:1030:GLN:O	3:N:622:ARG:HA	1.99	0.62
2:M:789:SER:O	2:M:791:ARG:HG2	1.98	0.62
1:K:218:LEU:O	1:K:222:LEU:HD23	1.99	0.62
2:M:1080:SER:HA	9:M:1525:HOH:O	1.99	0.62
3:N:546:ARG:NH1	3:N:546:ARG:HB3	2.14	0.62
2:C:197:LEU:HA	2:C:200:LEU:HD12	1.80	0.62
3:N:820:GLU:HG3	3:N:836:VAL:HG11	1.81	0.62
3:N:58:CYS:SG	3:N:59:ALA:N	2.70	0.62
3:N:898:GLU:CB	3:N:921:ARG:HH22	2.12	0.62
1:B:119:ASP:HB3	9:B:530:HOH:O	1.99	0.62
2:M:904:PRO:HB3	9:M:1233:HOH:O	1.99	0.62
3:D:1031:ASN:HB2	3:D:1034:GLN:CD	2.19	0.62
3:D:1274:ILE:HD11	3:D:1334:GLN:HB3	1.81	0.62
2:C:195:LEU:HD12	2:C:195:LEU:O	1.99	0.62
2:C:276:LYS:HB3	9:C:9614:HOH:O	1.99	0.62
2:M:741:GLY:HA3	9:M:1290:HOH:O	1.99	0.62
3:D:142:LEU:HA	9:D:9393:HOH:O	1.99	0.62
2:M:651:LYS:HA	9:M:1401:HOH:O	1.98	0.62
3:D:1157:GLY:HA2	9:D:9373:HOH:O	1.98	0.62
3:D:1299:PHE:HB2	9:D:9335:HOH:O	1.99	0.62
3:N:1061:PHE:HA	9:N:9209:HOH:O	1.98	0.62
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.81	0.62
2:C:92:ALA:HB1	9:C:9317:HOH:O	1.99	0.62
3:D:57:GLU:HG2	3:D:58:CYS:N	2.14	0.62
1:B:151:VAL:HB	1:B:169:ALA:HB3	1.82	0.62
2:C:141:HIS:HB3	2:C:418:LEU:CB	2.28	0.62
5:F:363:GLU:HA	5:F:367:MET:CE	2.28	0.62
2:M:1017:THR:OG1	2:M:1019:GLN:HG2	1.99	0.62
1:A:6:LEU:HD22	9:A:444:HOH:O	1.98	0.62
3:N:220:ARG:HA	9:N:2310:HOH:O	1.97	0.62
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.99	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1399:ASP:O	3:D:1403:LEU:HB2	2.00	0.62
5:P:416:ARG:HD2	5:P:419:ARG:HB3	1.81	0.62
2:M:1018:GLN:HB3	9:M:1172:HOH:O	1.98	0.62
3:N:87:ARG:HB3	3:N:523:ASP:HB2	1.81	0.62
2:C:773:LEU:O	2:C:777:ILE:HG13	2.00	0.62
3:N:213:VAL:HG21	9:N:9906:HOH:O	1.99	0.62
2:C:137:VAL:HG23	2:C:391:LEU:HG	1.81	0.62
3:D:210:ARG:HG3	3:D:398:ALA:H	1.65	0.62
3:D:1152:GLU:CD	3:D:1159:ARG:HH12	2.03	0.62
1:K:30:ARG:HG2	9:N:9299:HOH:O	1.99	0.62
3:D:1205:TYR:HE1	3:D:1221:VAL:HG13	1.64	0.62
2:C:863:ASP:OD1	2:C:865:THR:HG22	1.99	0.62
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.82	0.62
5:F:200:LYS:HD2	5:F:209:PHE:CZ	2.34	0.62
2:C:669:GLY:HA3	2:C:995:MET:HA	1.82	0.62
2:M:285:LEU:O	2:M:285:LEU:HD23	1.99	0.62
3:N:684:LYS:HB2	3:N:686:GLU:HG3	1.81	0.62
1:L:185:ARG:HG2	9:L:1387:HOH:O	1.98	0.62
5:P:337:HIS:H	5:P:337:HIS:HD2	1.46	0.62
1:B:124:ASN:HA	9:B:457:HOH:O	1.99	0.62
5:P:230:LYS:HB2	9:P:688:HOH:O	1.99	0.62
5:F:111:GLU:O	5:F:115:LYS:HG2	1.99	0.62
2:C:816:LYS:HB2	2:C:819:VAL:HG21	1.81	0.62
3:D:482:LYS:HD2	9:D:2394:HOH:O	1.98	0.62
2:C:248:PRO:HD3	9:C:9626:HOH:O	1.98	0.62
2:C:1118:LYS:HD3	3:D:20:SER:O	1.99	0.62
3:N:186:VAL:HG11	9:N:9906:HOH:O	1.98	0.62
1:A:184:THR:HB	1:A:194:LYS:HE2	1.81	0.62
3:N:57:GLU:HG2	3:N:58:CYS:O	2.00	0.62
5:F:367:MET:HA	5:F:370:LYS:NZ	2.15	0.62
3:N:119:SER:N	3:N:123:LEU:HB2	2.13	0.62
1:B:186:LEU:HD22	1:B:192:LEU:HD11	1.81	0.62
1:A:179:PHE:HD1	1:A:195:LEU:HD11	1.63	0.62
2:C:420:ARG:HD2	2:C:420:ARG:H	1.65	0.62
3:D:1291:SER:HB2	3:D:1293:PHE:HE1	1.65	0.62
3:N:477:LEU:HD21	3:N:495:ARG:HH11	1.64	0.62
2:M:1014:SER:HB2	5:P:331:ASP:O	1.99	0.62
5:P:155:THR:HA	5:P:158:GLU:OE2	2.00	0.62
2:C:1025:ALA:HB3	9:C:9097:HOH:O	1.98	0.62
3:D:1206:GLY:HA3	3:D:1366:LYS:NZ	2.14	0.62
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.19	0.62
3:N:996:TRP:CE3	3:N:999:THR:HG21	2.34	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:4:LYS:HD2	9:M:1220:HOH:O	1.99	0.62
3:N:680:GLN:HB3	9:N:9537:HOH:O	2.00	0.62
1:L:99:LEU:HA	9:L:3359:HOH:O	1.99	0.62
2:M:230:ARG:HB2	9:M:1607:HOH:O	1.98	0.62
3:D:832:ARG:HB2	9:D:9477:HOH:O	2.00	0.62
2:M:786:LYS:HA	9:M:1349:HOH:O	1.99	0.62
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.99	0.62
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	2.00	0.62
5:F:166:LEU:O	5:F:171:LYS:HB2	2.00	0.62
3:N:37:LEU:HB2	9:N:2570:HOH:O	1.99	0.62
3:N:1259:VAL:HG22	3:N:1355:VAL:HG21	1.81	0.62
2:C:174:LEU:HD23	2:C:184:MET:HG3	1.81	0.62
2:M:715:THR:HG21	9:M:1668:HOH:O	2.00	0.62
1:L:100:LEU:HD23	1:L:141:GLU:HG2	1.81	0.62
2:M:217:LEU:HA	9:M:1226:HOH:O	2.00	0.62
2:C:1034:GLU:HA	2:C:1037:VAL:HG23	1.82	0.62
3:D:171:LEU:HD13	3:D:389:GLU:C	2.20	0.62
2:C:706:GLU:HB3	2:C:708:TYR:CE1	2.35	0.62
3:D:1197:ARG:HG3	3:D:1198:TYR:N	2.15	0.62
1:A:222:LEU:HD21	1:B:218:LEU:HD23	1.81	0.62
2:C:818:GLY:HA3	9:C:9771:HOH:O	1.99	0.62
1:K:46:SER:HB3	2:M:856:GLU:HG2	1.81	0.62
9:D:2701:HOH:O	5:F:314:PRO:HA	2.00	0.62
5:F:274:THR:HA	9:F:519:HOH:O	1.98	0.62
5:F:113:ILE:HA	5:F:116:LEU:HD12	1.81	0.62
5:F:222:ARG:HA	5:F:225:GLU:OE1	1.99	0.62
2:M:1031:ARG:HB2	9:M:1236:HOH:O	2.00	0.62
2:C:940:GLU:O	2:C:944:LEU:HG	2.00	0.62
2:M:305:PRO:HG3	2:M:308:ARG:HH21	1.64	0.62
3:N:213:VAL:HG22	3:N:214:GLU:H	1.64	0.62
5:P:363:GLU:HA	5:P:367:MET:HE2	1.82	0.62
1:K:143:ARG:HH11	1:K:143:ARG:HG2	1.65	0.62
1:A:36:LEU:O	1:A:39:PRO:HD2	1.99	0.62
3:D:834:THR:HG22	3:D:838:ARG:HD2	1.82	0.62
2:M:348:LEU:HD23	9:M:1422:HOH:O	2.00	0.62
2:M:357:GLU:O	2:M:360:LEU:HG	2.00	0.62
5:P:132:ARG:O	5:P:136:LEU:HG	2.00	0.61
3:N:1096:ARG:CB	3:N:1096:ARG:HH11	2.08	0.61
1:B:38:ASN:HB2	9:B:629:HOH:O	1.99	0.61
3:D:1428:ALA:O	3:D:1431:THR:HG23	2.00	0.61
1:A:150:TYR:CE1	2:C:696:LYS:HA	2.35	0.61
3:D:139:GLY:O	3:D:147:VAL:HB	2.00	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:755:LEU:HB2	9:M:1927:HOH:O	2.00	0.61
2:M:31:GLN:HA	9:M:1325:HOH:O	2.00	0.61
2:C:1049:LEU:O	2:C:1053:LEU:HG	2.00	0.61
9:C:9650:HOH:O	4:E:28:GLN:HA	2.00	0.61
2:M:308:ARG:HB3	9:M:1833:HOH:O	1.99	0.61
3:N:524:LEU:C	3:N:526:PRO:HD3	2.20	0.61
1:A:133:GLU:OE1	2:C:605:LYS:HB3	1.99	0.61
3:N:1211:MET:HG2	3:N:1213:ARG:HG2	1.82	0.61
3:D:810:GLU:O	3:D:813:LEU:HG	1.99	0.61
2:C:184:MET:HB2	2:C:193:LEU:HD12	1.82	0.61
3:D:109:PRO:HD3	9:D:9934:HOH:O	1.99	0.61
3:D:1407:LEU:HA	9:D:2570:HOH:O	2.00	0.61
2:M:1009:SER:HA	9:N:9366:HOH:O	1.98	0.61
3:D:794:GLN:HG2	3:D:905:PRO:HB3	1.82	0.61
3:N:1197:ARG:HD3	3:N:1396:GLU:OE1	2.00	0.61
1:B:50:GLY:HA2	9:B:487:HOH:O	1.98	0.61
9:A:332:HOH:O	1:B:208:LEU:HD11	2.00	0.61
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.82	0.61
3:D:628:ARG:HD3	3:D:744:GLN:HE22	1.64	0.61
1:B:44:LEU:HD11	1:B:199:ILE:HD11	1.82	0.61
1:A:213:GLN:O	1:A:217:ILE:HG13	2.00	0.61
3:D:783:ARG:HH21	8:D:9001:TGT:H2	1.64	0.61
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.82	0.61
2:C:253:ALA:HB3	9:C:9707:HOH:O	2.00	0.61
3:N:215:TYR:O	3:N:389:GLU:HB3	1.99	0.61
5:F:87:GLU:O	5:F:91:VAL:HG22	2.00	0.61
1:L:44:LEU:HD23	1:L:48:ILE:HD11	1.83	0.61
3:N:421:LEU:HB2	9:N:9419:HOH:O	1.99	0.61
3:D:9:ARG:HA	3:D:1434:TRP:CH2	2.35	0.61
2:M:721:ARG:NH2	2:M:785:VAL:HG21	2.15	0.61
2:M:669:GLY:HA3	2:M:995:MET:HA	1.82	0.61
2:M:410:ILE:HG22	9:M:2341:HOH:O	2.01	0.61
2:C:384:GLU:HG3	2:C:388:ARG:NE	2.15	0.61
2:M:690:ILE:HD12	2:M:833:LEU:HD23	1.82	0.61
1:L:192:LEU:HD12	9:L:5544:HOH:O	2.00	0.61
3:D:1268:PRO:HD2	9:D:2058:HOH:O	2.01	0.61
1:A:206:THR:HG22	1:A:209:GLU:HB2	1.82	0.61
3:N:660:LYS:HG2	3:N:690:ALA:HB1	1.82	0.61
1:K:164:ALA:HA	9:K:6166:HOH:O	1.99	0.61
5:P:292:ALA:HB1	5:P:299:TRP:O	2.01	0.61
3:N:135:LEU:HD13	3:N:147:VAL:HG23	1.81	0.61
3:D:1063:GLU:HG2	3:D:1064:GLY:H	1.66	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:873:LEU:HD12	3:D:873:LEU:H	1.65	0.61
2:C:1062:GLY:HA2	9:C:9598:HOH:O	1.99	0.61
3:D:447:VAL:HG23	9:D:9177:HOH:O	2.00	0.61
2:C:54:ILE:HD11	2:C:356:ARG:CG	2.29	0.61
2:C:503:LEU:HD12	2:C:505:GLY:H	1.66	0.61
2:M:186:VAL:HG23	2:M:187:ASN:H	1.66	0.61
3:D:510:GLU:HB3	9:D:9925:HOH:O	1.99	0.61
2:M:569:VAL:HG11	2:M:996:LYS:HZ3	1.63	0.61
5:F:278:LEU:HD12	9:F:746:HOH:O	1.99	0.61
2:M:428:ARG:HE	2:M:451:LEU:HD21	1.66	0.61
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.81	0.61
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.83	0.61
2:M:598:GLU:O	2:M:651:LYS:HG3	2.00	0.61
2:C:981:GLU:HG3	9:C:2177:HOH:O	2.00	0.61
3:N:1036:ARG:NH2	3:N:1042:ARG:HA	2.15	0.61
2:C:1115:LEU:HA	3:D:89:ARG:NH2	2.14	0.61
2:C:595:LEU:HG	2:C:655:LEU:HD12	1.81	0.61
5:P:361:LEU:HD21	5:P:404:ALA:CB	2.29	0.61
3:D:204:LEU:HD23	9:D:9486:HOH:O	2.01	0.61
2:M:549:PHE:CG	2:M:886:LEU:HD13	2.36	0.61
2:M:44:ILE:HG22	9:M:1192:HOH:O	1.99	0.61
3:N:478:LEU:HA	3:N:1388:ARG:NH2	2.16	0.61
2:M:528:GLU:O	2:M:530:GLU:HG3	2.00	0.61
2:M:607:ASP:HB2	2:M:610:ARG:HG3	1.83	0.61
2:M:673:LEU:HD12	2:M:895:TYR:CE1	2.35	0.61
2:C:26:TYR:O	2:C:30:LEU:HD12	2.00	0.61
2:M:723:THR:HA	9:M:2073:HOH:O	2.00	0.61
3:N:139:GLY:O	3:N:147:VAL:HB	2.00	0.61
3:N:1036:ARG:HH21	3:N:1042:ARG:CA	2.13	0.61
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.64	0.61
1:L:158:ILE:HD11	9:L:5570:HOH:O	2.00	0.61
5:F:274:THR:HG23	9:F:811:HOH:O	1.99	0.61
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.16	0.61
1:B:170:VAL:HG22	9:B:421:HOH:O	2.00	0.61
1:K:91:ASN:OD1	1:K:92:PRO:HD2	2.01	0.61
5:P:384:GLU:HA	9:P:789:HOH:O	2.00	0.61
3:D:775:GLY:HA2	9:D:2264:HOH:O	2.00	0.61
1:K:118:ALA:HB3	9:K:4725:HOH:O	2.01	0.61
1:K:75:VAL:O	1:K:79:ILE:HG23	2.00	0.61
2:M:199:VAL:HG13	2:M:235:LEU:HG	1.81	0.61
3:N:546:ARG:HH22	3:N:550:ARG:NH2	1.98	0.61
3:D:602:SER:O	3:D:606:ILE:HG12	1.99	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:175:VAL:HG12	3:D:176:ASP:OD1	2.00	0.61
2:M:1115:LEU:HD12	2:M:1115:LEU:H	1.65	0.61
2:M:551:GLU:HG2	2:M:905:ILE:O	2.00	0.61
3:N:1481:VAL:HG13	4:O:18:ARG:NE	2.16	0.61
2:M:694:LEU:HD11	2:M:868:ASP:HB3	1.81	0.61
1:B:27:PRO:HB3	1:B:192:LEU:HD22	1.82	0.61
2:M:203:ASP:OD1	2:M:205:GLU:HG3	2.01	0.61
2:C:145:GLY:O	2:C:163:ILE:HG23	2.01	0.61
1:B:58:ILE:HD13	1:B:140:MET:HB3	1.83	0.61
2:C:222:MET:HB3	9:C:2084:HOH:O	2.01	0.61
2:M:637:LEU:HB2	9:M:1559:HOH:O	1.99	0.61
9:N:9144:HOH:O	5:P:147:LEU:HD11	1.99	0.61
3:N:197:SER:HB2	3:N:205:TYR:CZ	2.36	0.61
2:M:162:ILE:O	2:M:164:PRO:HD3	2.01	0.61
3:N:906:GLN:HB3	3:N:911:LEU:HD11	1.82	0.61
2:M:139:GLN:HA	9:M:2341:HOH:O	2.01	0.61
2:C:139:GLN:NE2	2:C:415:PRO:HD3	2.15	0.61
1:K:71:VAL:HG13	9:K:2174:HOH:O	2.00	0.61
3:N:917:GLN:HA	9:N:9492:HOH:O	2.00	0.61
3:D:1082:ALA:O	3:D:1086:LEU:HD13	1.99	0.61
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.83	0.61
3:D:1115:THR:HG21	9:D:9271:HOH:O	2.01	0.61
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.16	0.61
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.83	0.61
3:D:9:ARG:O	3:D:9:ARG:HG3	2.00	0.61
3:N:87:ARG:CB	3:N:523:ASP:HB2	2.31	0.61
3:D:478:LEU:HD21	3:D:500:ARG:NH2	2.13	0.61
2:C:264:PRO:HB3	2:C:289:THR:CG2	2.31	0.61
2:C:305:PRO:HG3	2:C:308:ARG:HH21	1.66	0.61
3:N:1379:VAL:HG23	9:N:2585:HOH:O	2.01	0.61
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.81	0.61
4:O:48:MET:N	4:O:54:LEU:HB2	2.16	0.61
2:C:838:LYS:HD2	2:C:846:LYS:NZ	2.16	0.61
3:N:1209:LEU:HD23	3:N:1210:SER:H	1.65	0.61
3:N:1314:LYS:HD3	3:N:1314:LYS:N	2.15	0.61
2:M:755:LEU:HD22	2:M:825:VAL:HG11	1.83	0.61
1:B:26:GLU:HG3	1:B:184:THR:HG21	1.83	0.61
1:L:25:LEU:HD23	1:L:28:LEU:HD11	1.83	0.61
2:M:911:GLU:O	2:M:915:LYS:HG2	2.00	0.61
1:L:100:LEU:HD12	1:L:115:LEU:HD11	1.83	0.61
1:A:53:VAL:HG12	1:A:167:VAL:HG21	1.82	0.61
3:D:899:LEU:HD12	3:D:900:ILE:HG23	1.83	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:112:ALA:HA	5:P:173:TYR:HD2	1.64	0.61
3:N:715:ALA:O	3:N:764:LEU:HD12	2.00	0.61
2:M:302:VAL:HG12	9:M:1355:HOH:O	2.00	0.60
2:C:367:LEU:HB3	2:C:371:LYS:HG2	1.83	0.60
3:D:565:ILE:HD12	3:D:565:ILE:H	1.66	0.60
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.16	0.60
3:N:58:CYS:HA	3:N:78:VAL:HG11	1.82	0.60
2:C:862:PRO:HG3	2:C:975:TYR:HE1	1.66	0.60
3:N:119:SER:H	3:N:123:LEU:HD13	1.66	0.60
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.01	0.60
2:C:29:ALA:HB2	2:C:337:GLY:HA3	1.81	0.60
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.83	0.60
3:D:704:ARG:HG3	3:D:736:PHE:HB3	1.82	0.60
1:L:84:GLU:OE1	3:N:844:ALA:HB1	2.01	0.60
3:N:842:VAL:HG22	9:N:9303:HOH:O	2.00	0.60
3:N:1091:SER:HA	9:N:9320:HOH:O	1.99	0.60
2:C:1014:SER:HB3	2:C:1017:THR:O	2.01	0.60
3:D:715:ALA:HB3	3:D:764:LEU:HA	1.82	0.60
2:C:436:GLY:HA2	2:C:538:GLN:O	2.02	0.60
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.65	0.60
3:N:674:ARG:HB3	9:N:2013:HOH:O	2.01	0.60
2:C:234:ALA:HA	9:C:2092:HOH:O	1.99	0.60
2:M:1021:LEU:HD13	5:P:331:ASP:O	2.00	0.60
3:D:864:VAL:HG12	3:D:865:THR:H	1.66	0.60
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.83	0.60
4:E:95:GLY:HA2	9:E:185:HOH:O	2.01	0.60
1:A:221:HIS:HA	1:A:224:TYR:HD2	1.66	0.60
3:D:598:ARG:HD3	5:F:320:PRO:HD3	1.81	0.60
3:D:93:ILE:HD12	3:D:519:VAL:HG22	1.81	0.60
3:N:783:ARG:NH1	3:N:1029:ARG:HD3	2.16	0.60
3:D:984:THR:HG23	3:D:987:GLU:H	1.66	0.60
2:C:162:ILE:O	2:C:164:PRO:HD3	2.01	0.60
2:M:397:GLU:HG3	2:M:633:GLN:HE22	1.66	0.60
3:D:19:ARG:HG3	9:D:9380:HOH:O	2.01	0.60
2:C:536:PRO:HD2	2:C:537:LYS:HD2	1.84	0.60
1:L:123:MET:C	1:L:125:PRO:HD3	2.22	0.60
3:D:1239:ARG:HH22	3:D:1254:GLN:H	1.47	0.60
5:F:336:GLU:HG2	9:F:433:HOH:O	2.01	0.60
1:L:170:VAL:HG22	9:L:2130:HOH:O	2.00	0.60
2:M:250:ARG:HB3	9:M:1190:HOH:O	2.01	0.60
3:N:65:ARG:CG	3:N:66:GLN:H	2.14	0.60
3:D:782:SER:HB2	9:D:9499:HOH:O	2.00	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:676:ILE:CG2	2:C:988:VAL:HG22	2.31	0.60
3:N:443:VAL:HG11	3:N:445:ARG:HH21	1.66	0.60
5:F:93:LEU:HG	5:F:190:ALA:CB	2.32	0.60
2:M:8:ARG:HB2	9:M:1613:HOH:O	2.01	0.60
3:D:1377:LYS:O	3:D:1394:VAL:HA	2.02	0.60
3:D:1175:ILE:O	3:D:1179:GLU:HG3	2.01	0.60
2:C:199:VAL:HG13	2:C:235:LEU:HG	1.83	0.60
3:N:1464:GLU:HG2	3:N:1465:ASN:H	1.67	0.60
3:D:156:GLU:HA	3:D:159:ARG:HH12	1.67	0.60
2:M:112:GLU:HB2	9:M:1464:HOH:O	2.01	0.60
2:M:1102:LEU:HB2	3:N:7:LYS:HG3	1.84	0.60
2:M:1097:LEU:HD22	2:M:1097:LEU:H	1.66	0.60
3:D:1007:VAL:O	3:D:1010:ASN:HB3	2.01	0.60
3:D:29:PRO:HG3	3:D:549:ASN:ND2	2.12	0.60
2:C:666:LEU:HD13	9:C:9925:HOH:O	2.02	0.60
2:M:537:LYS:HG3	2:M:545:ASN:ND2	2.16	0.60
3:D:702:LEU:HB3	3:D:745:MET:CE	2.30	0.60
3:D:761:ILE:HD11	4:E:23:VAL:HG11	1.84	0.60
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.82	0.60
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.64	0.60
2:C:964:LYS:HE3	9:C:9220:HOH:O	2.01	0.60
3:N:104:PHE:CD2	3:N:1448:THR:HG23	2.36	0.60
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.17	0.60
3:D:1168:MET:O	3:D:1168:MET:HE3	2.02	0.60
2:C:1043:TYR:OH	3:D:711:LEU:HD23	2.02	0.60
4:O:72:ARG:HB3	4:O:72:ARG:HH11	1.66	0.60
4:O:43:GLU:HG2	4:O:44:GLU:H	1.66	0.60
2:M:918:LEU:HD21	9:M:1479:HOH:O	2.00	0.60
3:D:47:GLU:HB3	9:D:9864:HOH:O	2.02	0.60
2:M:283:ILE:HG13	9:M:2340:HOH:O	2.02	0.60
3:D:172:PRO:HD2	3:D:389:GLU:O	2.01	0.60
2:C:876:VAL:HB	3:D:949:ILE:HG13	1.84	0.60
2:M:178:PRO:HA	9:M:1536:HOH:O	2.02	0.60
3:D:637:LEU:HD11	3:D:641:GLN:C	2.21	0.60
5:P:283:GLY:HA2	9:P:745:HOH:O	2.02	0.60
3:D:1236:LEU:HA	3:D:1359:GLN:NE2	2.16	0.60
5:P:256:ARG:NE	5:P:260:ILE:HD12	2.17	0.60
3:D:393:ILE:H	3:D:393:ILE:HD12	1.66	0.60
5:F:290:GLU:HA	5:F:293:GLU:OE2	2.01	0.60
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.84	0.60
3:D:566:ILE:HG22	5:F:214:GLN:HE22	1.67	0.60
3:D:911:LEU:O	3:D:915:VAL:HG23	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:698:LYS:HA	3:N:756:GLN:HE21	1.66	0.60
3:D:459:GLU:HA	9:D:2118:HOH:O	2.01	0.60
2:M:557:ARG:NH2	2:M:879:ARG:HE	1.98	0.60
1:K:67:THR:HG21	2:M:609:ASN:ND2	2.16	0.60
3:D:40:GLU:OE1	3:D:40:GLU:HA	2.01	0.60
1:L:28:LEU:O	1:L:192:LEU:HD23	2.01	0.60
2:C:115:LEU:HD12	2:C:378:LEU:HD22	1.84	0.60
5:P:416:ARG:CZ	5:P:419:ARG:HB2	2.32	0.60
5:F:148:LYS:HB3	9:F:702:HOH:O	2.02	0.60
3:N:1284:GLU:HB2	9:N:9466:HOH:O	2.01	0.60
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.16	0.60
2:C:926:PHE:O	2:C:930:LYS:HG3	2.01	0.60
3:D:33:ASN:HB3	3:D:35:ARG:HH12	1.65	0.60
2:C:224:GLU:HG3	9:C:9073:HOH:O	2.00	0.60
2:M:278:GLU:HB3	9:M:1258:HOH:O	2.01	0.60
3:N:1257:PRO:O	3:N:1260:ILE:HG22	2.01	0.60
2:C:942:GLU:HA	9:C:2219:HOH:O	1.99	0.60
5:P:210:LEU:HA	5:P:213:ILE:HD12	1.84	0.60
2:C:1085:PHE:CZ	2:C:1111:ILE:HG21	2.37	0.60
2:C:333:ILE:CD1	2:C:467:ILE:HG13	2.32	0.60
1:B:151:VAL:HG22	1:B:155:LYS:NZ	2.17	0.60
5:F:385:GLU:O	5:F:397:ILE:HD13	2.02	0.60
5:F:291:ILE:HG23	5:F:304:VAL:HG21	1.84	0.60
2:M:328:LEU:HD13	2:M:433:THR:HB	1.84	0.60
2:M:89:THR:HA	2:M:129:ILE:O	2.02	0.60
3:D:136:ASP:CB	3:D:137:PRO:HD3	2.31	0.60
5:F:116:LEU:HA	9:F:885:HOH:O	2.00	0.60
1:B:103:ALA:O	1:B:138:LEU:HD23	2.02	0.60
2:M:490:GLU:HG2	2:M:494:TYR:HE1	1.66	0.60
3:D:1093:TYR:O	3:D:1097:LYS:HG2	2.02	0.60
2:C:31:GLN:HB3	2:C:71:TYR:OH	2.02	0.60
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.01	0.60
2:M:212:GLY:HA3	2:M:218:VAL:HG23	1.83	0.60
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.28	0.60
3:D:1434:TRP:CZ3	3:D:1457:ASP:HB2	2.37	0.60
3:N:49:ILE:HB	3:N:50:PHE:CD1	2.37	0.60
3:N:52:PRO:HB3	3:N:80:VAL:HG13	1.83	0.60
2:C:875:GLY:O	2:C:879:ARG:HD2	2.02	0.60
2:M:182:VAL:HG12	2:M:193:LEU:HD13	1.83	0.60
2:C:890:LEU:HD12	2:C:914:ILE:HD13	1.84	0.60
3:N:804:LEU:HB3	9:N:9283:HOH:O	2.02	0.60
2:C:343:GLN:HA	9:C:2186:HOH:O	2.01	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:262:VAL:HG12	5:F:266:GLU:OE2	2.01	0.60
2:M:31:GLN:HG2	2:M:34:VAL:HG23	1.82	0.60
5:F:403:LYS:NZ	5:F:403:LYS:HA	2.17	0.60
5:F:119:ILE:HB	9:F:885:HOH:O	2.01	0.60
3:N:31:THR:HG23	3:N:45:PHE:CE2	2.37	0.60
3:D:890:VAL:HA	9:D:9733:HOH:O	2.02	0.60
9:D:9679:HOH:O	5:F:349:LEU:HD21	2.02	0.60
3:D:1496:GLU:HA	3:D:1499:ARG:HG3	1.84	0.60
2:C:897:LEU:HD23	2:C:899:GLN:NE2	2.16	0.60
3:D:524:LEU:C	3:D:526:PRO:HD3	2.22	0.59
2:C:774:LEU:HD23	9:F:623:HOH:O	2.00	0.59
3:N:804:LEU:HB2	3:N:830:ALA:O	2.02	0.59
3:N:119:SER:HB2	3:N:123:LEU:CD1	2.32	0.59
3:N:906:GLN:HB3	3:N:911:LEU:CD1	2.32	0.59
3:D:1271:LYS:NZ	3:D:1334:GLN:HE22	2.00	0.59
1:A:50:GLY:HA3	1:A:173:PRO:HG3	1.83	0.59
1:A:221:HIS:HA	1:A:224:TYR:CD2	2.36	0.59
3:D:380:GLU:O	3:D:382:GLU:N	2.34	0.59
1:B:228:PRO:O	1:B:229:GLN:HG3	2.02	0.59
2:C:1047:HIS:HA	9:C:9436:HOH:O	2.01	0.59
2:C:470:PRO:HB3	2:C:485:TYR:CZ	2.37	0.59
5:F:213:ILE:HG22	5:F:217:ASN:ND2	2.18	0.59
2:M:313:LEU:HD13	2:M:321:GLU:HB2	1.85	0.59
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.83	0.59
2:M:479:VAL:HG23	2:M:506:ASN:HA	1.84	0.59
2:M:752:GLY:H	2:M:792:VAL:HB	1.67	0.59
2:M:672:VAL:CG2	2:M:868:ASP:HB2	2.30	0.59
5:F:91:VAL:HG21	9:F:677:HOH:O	2.01	0.59
3:D:177:ALA:HB1	3:D:199:LEU:HD22	1.84	0.59
3:N:1254:GLN:HB3	9:N:2215:HOH:O	2.02	0.59
1:K:27:PRO:HB2	9:K:7997:HOH:O	2.00	0.59
5:F:303:ARG:O	5:F:307:THR:HG23	2.02	0.59
2:M:1043:TYR:HE1	3:N:710:ARG:O	1.85	0.59
3:N:963:TYR:CE2	3:N:1002:LYS:HB3	2.38	0.59
2:C:29:ALA:HB2	2:C:337:GLY:HA2	1.84	0.59
1:B:27:PRO:O	1:B:28:LEU:HD23	2.03	0.59
3:N:1147:ARG:O	3:N:1165:TYR:HA	2.02	0.59
3:N:1231:GLU:OE1	3:N:1232:PRO:HG3	2.02	0.59
3:N:1364:HIS:ND1	3:N:1366:LYS:HB2	2.17	0.59
1:K:127:LEU:HD12	1:K:128:HIS:N	2.17	0.59
3:N:134:VAL:HG22	9:N:9888:HOH:O	2.02	0.59
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.84	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:212:GLY:HA3	2:C:218:VAL:HG23	1.84	0.59
5:P:385:GLU:O	5:P:397:ILE:HD13	2.03	0.59
1:B:206:THR:CG2	1:B:209:GLU:H	2.16	0.59
2:C:141:HIS:HB3	2:C:418:LEU:CG	2.32	0.59
2:C:605:LYS:HE2	2:C:610:ARG:NH1	2.16	0.59
2:M:545:ASN:O	2:M:581:THR:HG21	2.02	0.59
5:F:142:ARG:CZ	5:F:150:THR:HG21	2.32	0.59
3:D:699:VAL:HG12	3:D:717:GLN:HG3	1.83	0.59
2:M:586:ARG:HD3	2:M:590:ASP:OD2	2.01	0.59
2:M:620:LEU:HD22	2:M:620:LEU:O	2.02	0.59
3:N:84:ILE:HG23	9:N:2157:HOH:O	2.02	0.59
2:C:499:ALA:HB1	9:C:2229:HOH:O	2.02	0.59
3:D:13:ALA:HB1	3:D:18:ILE:HD11	1.84	0.59
2:M:260:LEU:HA	2:M:291:ALA:CB	2.33	0.59
1:K:184:THR:O	1:K:192:LEU:HD12	2.02	0.59
2:C:42:VAL:HG12	2:C:43:GLY:N	2.17	0.59
2:M:33:ASP:OD2	2:M:34:VAL:HG22	2.03	0.59
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	2.17	0.59
3:D:690:ALA:O	3:D:694:VAL:HG23	2.02	0.59
3:N:430:ASP:HB3	9:N:9423:HOH:O	2.02	0.59
3:D:961:LYS:HB2	9:D:2239:HOH:O	2.03	0.59
2:M:207:LEU:HD13	2:M:221:LEU:HD13	1.84	0.59
3:D:28:LYS:HB2	3:D:41:ARG:HD2	1.84	0.59
2:M:1055:LEU:HD21	9:M:1399:HOH:O	2.01	0.59
1:B:73:GLU:HB3	1:B:77:GLU:HG2	1.82	0.59
3:D:804:LEU:HB2	3:D:830:ALA:O	2.03	0.59
3:D:1066:THR:O	3:D:1070:TYR:HB2	2.03	0.59
3:N:161:LEU:HG	9:N:9501:HOH:O	2.01	0.59
3:D:486:ARG:HA	3:D:489:ARG:HG2	1.84	0.59
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.84	0.59
2:M:439:CYS:SG	2:M:540:PHE:HB3	2.43	0.59
2:M:39:ARG:NE	2:M:39:ARG:HA	2.18	0.59
4:E:4:PRO:HG3	9:E:213:HOH:O	2.01	0.59
2:M:629:TYR:HB2	9:M:1559:HOH:O	2.02	0.59
3:D:611:GLN:HA	3:D:615:ARG:HG2	1.85	0.59
1:K:159:LYS:HE2	9:K:8175:HOH:O	2.02	0.59
3:N:697:GLY:HA3	9:O:4442:HOH:O	2.02	0.59
1:B:102:LYS:HE2	1:B:104:GLU:OE1	2.02	0.59
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.67	0.59
3:D:584:ASN:ND2	3:D:590:PRO:HD2	2.18	0.59
2:M:1032:PHE:CD2	2:M:1052:MET:HG2	2.37	0.59
2:M:1055:LEU:HD22	2:M:1066:ALA:HB2	1.84	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:708:TYR:N	2:C:708:TYR:CD1	2.69	0.59
3:D:1209:LEU:HD23	3:D:1211:MET:H	1.66	0.59
3:N:141:ILE:HD13	3:N:450:TYR:HB2	1.83	0.59
2:M:437:ARG:HG2	2:M:467:ILE:O	2.02	0.59
2:M:266:ARG:HB2	9:M:1259:HOH:O	2.02	0.59
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.37	0.59
1:A:18:ARG:O	1:A:207:PRO:HD3	2.03	0.59
1:B:26:GLU:HG2	1:B:27:PRO:CA	2.32	0.59
5:F:119:ILE:HG12	9:F:695:HOH:O	2.02	0.59
3:D:1243:THR:OG1	3:D:1253:THR:HB	2.02	0.59
5:P:231:ARG:HD3	9:P:790:HOH:O	2.03	0.59
2:C:1096:ALA:O	3:D:13:ALA:HB2	2.02	0.59
2:C:583:LEU:O	2:C:587:VAL:HG23	2.02	0.59
3:N:535:PHE:O	5:P:315:VAL:N	2.31	0.59
2:C:1066:ALA:O	2:C:1070:ILE:HG13	2.03	0.59
3:D:1344:VAL:HG11	3:D:1421:LEU:HD13	1.84	0.59
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.37	0.59
2:M:157:ARG:HB3	9:M:1879:HOH:O	2.00	0.59
3:N:1007:VAL:HG23	3:N:1008:PHE:HD2	1.68	0.59
3:N:1372:VAL:HA	3:N:1375:MET:HE3	1.85	0.59
3:D:976:GLN:HG3	9:D:9724:HOH:O	2.02	0.59
3:N:404:GLU:HB3	3:N:414:ARG:HD2	1.85	0.59
3:D:3:LYS:HE2	9:D:9617:HOH:O	2.03	0.59
3:D:1408:ILE:HG12	9:D:9584:HOH:O	2.03	0.59
3:D:424:GLY:HA2	3:D:435:VAL:O	2.03	0.59
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.84	0.59
5:P:164:LYS:HA	5:P:171:LYS:NZ	2.18	0.59
3:D:89:ARG:O	3:D:521:PRO:HG3	2.03	0.59
2:C:630:ARG:HE	2:C:705:ILE:HB	1.67	0.59
3:D:1209:LEU:HD22	3:D:1211:MET:SD	2.43	0.59
3:D:805:GLU:OE1	3:D:809:PRO:HD2	2.02	0.59
1:L:65:PHE:HD1	3:N:813:LEU:HD22	1.66	0.59
2:M:139:GLN:HB3	2:M:334:ARG:HD3	1.84	0.59
2:M:431:HIS:CD2	2:M:433:THR:H	2.20	0.59
2:M:1111:ILE:HG12	2:M:1112:PHE:H	1.67	0.59
3:N:877:PRO:O	3:N:880:ILE:HG22	2.03	0.59
5:F:395:GLU:O	5:F:399:GLN:HB2	2.02	0.59
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.32	0.59
3:D:902:LEU:HG	9:D:9927:HOH:O	2.03	0.59
3:N:1489:GLN:HB2	9:N:2560:HOH:O	2.02	0.59
2:C:283:ILE:HD12	9:C:9725:HOH:O	2.02	0.59
2:M:191:PHE:CZ	2:M:196:LEU:HB2	2.38	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:334:ARG:HB3	9:C:9652:HOH:O	2.03	0.59
2:C:397:GLU:H	2:C:633:GLN:NE2	2.00	0.59
3:N:1209:LEU:HD21	4:O:16:LYS:HZ1	1.68	0.59
1:L:26:GLU:HG3	1:L:194:LYS:NZ	2.18	0.59
1:K:112:ARG:HH11	1:K:112:ARG:HB3	1.68	0.59
1:A:206:THR:CG2	1:A:209:GLU:H	2.16	0.59
5:P:154:LYS:O	5:P:158:GLU:HG3	2.03	0.59
3:N:31:THR:HG23	3:N:45:PHE:HE2	1.68	0.59
2:C:1055:LEU:HD23	9:C:9412:HOH:O	2.02	0.59
2:C:443:THR:HG21	2:C:450:GLY:H	1.68	0.59
3:N:6:ARG:NH1	3:N:6:ARG:HB3	2.18	0.59
1:A:58:ILE:HB	1:A:61:VAL:HB	1.85	0.59
3:N:1066:THR:HG22	3:N:1069:GLU:HG3	1.84	0.59
3:D:1087:ARG:O	3:D:1091:SER:HB3	2.03	0.59
3:D:1076:GLY:O	3:D:1079:LYS:HG3	2.02	0.59
3:N:181:ASP:OD2	3:N:199:LEU:HB2	2.03	0.58
9:D:2043:HOH:O	5:F:317:LEU:HD11	2.03	0.58
2:C:264:PRO:HD2	9:C:9395:HOH:O	2.03	0.58
2:C:100:LEU:HD12	2:C:101:ILE:O	2.02	0.58
3:D:1326:THR:HA	9:D:2721:HOH:O	2.02	0.58
3:N:552:ASN:HA	3:N:555:LYS:HD2	1.83	0.58
2:C:557:ARG:HG3	2:C:560:MET:SD	2.43	0.58
5:F:310:ILE:HB	9:F:522:HOH:O	2.01	0.58
2:C:498:GLN:O	2:C:501:THR:HG23	2.02	0.58
5:F:142:ARG:HG3	9:F:730:HOH:O	2.01	0.58
3:D:209:ARG:HD2	3:D:210:ARG:HD3	1.84	0.58
2:C:265:ARG:HB3	2:C:267:TYR:CD2	2.38	0.58
3:N:149:LYS:HE3	9:N:9593:HOH:O	2.03	0.58
1:L:52:ALA:HB1	9:L:2130:HOH:O	2.02	0.58
2:M:1002:GLU:HA	2:M:1006:HIS:HE1	1.68	0.58
3:D:1164:ARG:HH21	3:D:1170:ASP:CG	2.06	0.58
1:B:80:LEU:HA	1:B:83:LYS:HD2	1.85	0.58
2:C:765:SER:HB3	9:C:2071:HOH:O	2.03	0.58
3:D:542:ASP:O	3:D:546:ARG:HG2	2.03	0.58
2:M:371:LYS:HA	9:M:1378:HOH:O	2.02	0.58
4:O:47:LYS:HA	4:O:54:LEU:HB3	1.84	0.58
2:M:408:ARG:HD2	9:M:1641:HOH:O	2.03	0.58
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.84	0.58
4:O:85:LEU:HD23	4:O:86:GLN:N	2.18	0.58
3:D:1155:VAL:HG12	3:D:1156:LEU:N	2.18	0.58
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.18	0.58
5:P:198:ILE:HG23	5:P:244:ARG:HE	1.68	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:1105:LYS:HE2	9:M:1654:HOH:O	2.03	0.58
2:M:401:LEU:HD13	2:M:546:LEU:HD11	1.85	0.58
3:N:584:ASN:HB2	3:N:602:SER:HB3	1.85	0.58
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.85	0.58
3:N:986:ARG:HG3	3:N:990:ASP:OD2	2.03	0.58
3:D:519:VAL:HG13	3:D:544:TYR:CE1	2.38	0.58
3:D:1147:ARG:O	3:D:1165:TYR:HA	2.03	0.58
1:B:112:ARG:NH1	1:B:112:ARG:HB3	2.17	0.58
2:M:1015:LEU:HD12	5:P:334:PRO:O	2.03	0.58
3:D:190:GLU:HB3	9:D:2258:HOH:O	2.02	0.58
1:A:31:GLY:HA2	2:C:939:ARG:HH22	1.69	0.58
3:N:694:VAL:HG13	9:N:9950:HOH:O	2.03	0.58
2:M:113:VAL:CG1	2:M:115:LEU:HD21	2.33	0.58
3:N:399:ARG:HB2	3:N:444:VAL:HG13	1.85	0.58
2:C:1091:GLU:HG2	3:D:606:ILE:CG2	2.33	0.58
2:C:1097:LEU:HD21	3:D:103:TRP:CZ3	2.38	0.58
2:C:1111:ILE:CD1	2:C:1112:PHE:H	2.16	0.58
2:M:8:ARG:HD2	2:M:10:ARG:NH2	2.12	0.58
3:D:65:ARG:H	3:D:68:PHE:HE1	1.51	0.58
3:D:907:GLU:O	3:D:911:LEU:HD13	2.04	0.58
3:N:1379:VAL:HG11	3:N:1395:LEU:HD23	1.85	0.58
3:N:950:GLY:O	3:N:953:ASP:N	2.31	0.58
2:C:881:ASN:HD22	2:C:881:ASN:N	1.97	0.58
2:C:25:SER:HB2	2:C:335:THR:HB	1.84	0.58
2:C:89:THR:HA	2:C:129:ILE:O	2.03	0.58
1:A:209:GLU:O	1:A:213:GLN:HG3	2.03	0.58
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.86	0.58
3:N:65:ARG:HG3	3:N:66:GLN:H	1.68	0.58
5:F:147:LEU:HD13	9:F:536:HOH:O	2.03	0.58
1:L:205:VAL:HB	9:L:5364:HOH:O	2.03	0.58
2:M:100:LEU:HD11	9:M:1650:HOH:O	2.03	0.58
1:K:93:SER:HB3	9:K:1521:HOH:O	2.03	0.58
5:F:108:GLU:HG3	5:F:176:ILE:HG21	1.85	0.58
1:K:20:TYR:HD2	1:K:21:GLY:H	1.52	0.58
3:D:494:LYS:HD2	9:D:9194:HOH:O	2.04	0.58
5:F:240:THR:HG23	9:F:597:HOH:O	2.02	0.58
3:D:12:LEU:HD23	3:D:13:ALA:H	1.68	0.58
3:D:1101:VAL:CG2	3:D:1424:VAL:HG22	2.30	0.58
2:M:264:PRO:HD2	9:M:1885:HOH:O	2.03	0.58
2:M:984:GLU:HA	9:M:2093:HOH:O	2.03	0.58
4:O:87:LYS:HA	9:O:4494:HOH:O	2.04	0.58
3:N:1046:GLN:HG2	3:N:1052:THR:HB	1.86	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:748:HIS:HB3	9:N:9408:HOH:O	2.03	0.58
3:D:838:ARG:HB3	9:D:2307:HOH:O	2.03	0.58
3:N:136:ASP:CB	3:N:137:PRO:HD3	2.33	0.58
3:D:1005:GLN:HA	9:D:9273:HOH:O	2.03	0.58
3:D:1186:VAL:HG22	9:D:9795:HOH:O	2.03	0.58
2:M:1069:ALA:HA	9:M:1298:HOH:O	2.04	0.58
2:M:252:LYS:NZ	2:M:296:GLY:HA3	2.19	0.58
3:D:404:GLU:HB3	3:D:414:ARG:HD2	1.85	0.58
3:D:116:LEU:O	3:D:118:LEU:HG	2.03	0.58
3:D:163:TYR:HB3	9:D:2181:HOH:O	2.03	0.58
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.86	0.58
2:C:148:PHE:HZ	2:C:281:LEU:HD13	1.69	0.58
3:N:804:LEU:HD23	3:N:804:LEU:H	1.67	0.58
5:F:77:THR:HA	5:F:210:LEU:HD21	1.84	0.58
2:C:1067:TYR:O	2:C:1071:ILE:HG12	2.04	0.58
1:A:102:LYS:HE2	1:A:139:ASN:HB2	1.83	0.58
2:M:532:MET:HG3	2:M:533:ASP:N	2.17	0.58
2:M:52:PHE:CG	2:M:68:PHE:HB2	2.39	0.58
1:A:143:ARG:HG3	1:A:144:VAL:N	2.18	0.58
3:N:116:LEU:HD23	3:N:468:LEU:HD11	1.86	0.58
4:E:33:HIS:CD2	4:E:89:MET:HG2	2.39	0.58
3:N:972:LEU:O	3:N:976:GLN:HG3	2.03	0.58
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.85	0.58
3:N:1364:HIS:CE1	3:N:1366:LYS:HB2	2.39	0.58
3:N:404:GLU:HB3	3:N:414:ARG:CD	2.34	0.58
1:A:62:LEU:HD12	1:A:62:LEU:H	1.69	0.58
2:C:682:TYR:HB3	2:C:689:VAL:HG22	1.85	0.58
5:F:321:ILE:HG22	5:F:322:GLY:H	1.67	0.58
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.85	0.58
3:N:555:LYS:HE2	9:N:2144:HOH:O	2.04	0.58
2:M:160:ALA:O	2:M:173:ASP:HA	2.04	0.58
2:C:625:LEU:HB3	2:C:639:GLN:HB2	1.85	0.58
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.67	0.58
3:D:510:GLU:CD	3:D:510:GLU:H	2.07	0.58
2:M:625:LEU:HD22	2:M:639:GLN:HB2	1.85	0.58
2:M:1043:TYR:HA	9:N:9718:HOH:O	2.03	0.58
2:C:380:ALA:O	2:C:384:GLU:HB2	2.03	0.58
2:C:19:THR:O	2:C:23:VAL:HG23	2.03	0.58
2:C:599:GLU:HB3	9:C:9476:HOH:O	2.03	0.58
1:B:138:LEU:HB2	1:B:140:MET:HE1	1.85	0.58
3:D:1237:THR:HG21	9:D:2660:HOH:O	2.03	0.58
3:N:1280:VAL:HG23	3:N:1295:GLU:O	2.02	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:420:ARG:NH1	2:M:420:ARG:H	2.02	0.58
3:D:408:GLU:HA	9:D:9418:HOH:O	2.04	0.58
2:C:984:GLU:HG2	3:D:944:THR:HG22	1.85	0.58
2:C:976:ASP:CB	2:C:979:THR:HG22	2.34	0.58
3:N:393:ILE:H	3:N:393:ILE:HD12	1.69	0.58
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.19	0.58
2:C:158:TYR:CE1	2:C:313:LEU:HG	2.38	0.58
2:C:431:HIS:H	2:C:434:HIS:CE1	2.21	0.58
1:B:45:LEU:HD21	1:B:177:VAL:HG22	1.85	0.58
5:P:321:ILE:HD11	5:P:329:TYR:HB2	1.84	0.58
3:D:1263:PHE:CZ	3:D:1352:ILE:HD13	2.39	0.58
3:N:1166:LEU:HD13	9:N:2153:HOH:O	2.04	0.58
1:B:58:ILE:HB	1:B:61:VAL:HB	1.85	0.58
1:A:58:ILE:HG22	9:A:516:HOH:O	2.03	0.58
1:K:13:VAL:HG12	1:K:15:THR:HG22	1.86	0.58
1:K:95:GLN:HA	9:K:4334:HOH:O	2.04	0.58
2:M:722:ILE:HG21	2:M:821:GLU:OE2	2.03	0.58
3:N:601:ARG:CZ	3:N:606:ILE:HD13	2.33	0.58
3:D:18:ILE:HG21	3:D:516:ALA:O	2.04	0.58
2:C:724:ARG:NE	2:C:737:LEU:O	2.37	0.58
2:C:148:PHE:HB3	9:C:9294:HOH:O	2.03	0.58
2:C:208:ALA:O	2:C:218:VAL:HG21	2.04	0.58
5:F:132:ARG:O	5:F:136:LEU:HG	2.03	0.58
2:M:367:LEU:O	2:M:372:LEU:HD13	2.03	0.58
5:F:361:LEU:HD22	5:F:366:ALA:HB2	1.85	0.58
1:L:166:PRO:HB3	9:L:3186:HOH:O	2.03	0.58
2:M:669:GLY:C	2:M:670:GLN:HG3	2.23	0.58
3:D:623:VAL:HG11	9:D:9215:HOH:O	2.01	0.58
2:C:1005:MET:CE	3:D:648:MET:HB2	2.33	0.58
3:N:729:HIS:HE1	3:N:731:LEU:HG	1.69	0.58
3:D:1420:LEU:HD12	3:D:1421:LEU:N	2.18	0.58
3:D:1499:ARG:HG2	9:D:9726:HOH:O	2.02	0.58
3:D:235:ALA:HB3	9:D:2067:HOH:O	2.03	0.58
1:K:227:ASN:ND2	1:K:227:ASN:H	2.02	0.58
3:D:988:ARG:O	3:D:992:ILE:HG13	2.04	0.58
9:D:9689:HOH:O	5:F:315:VAL:HB	2.04	0.58
1:A:226:SER:O	1:A:228:PRO:HD3	2.04	0.58
3:N:557:LEU:HD11	9:P:667:HOH:O	2.03	0.58
2:C:365:ASP:O	2:C:367:LEU:HD12	2.04	0.58
3:D:41:ARG:HD3	3:D:42:ASP:H	1.68	0.58
5:F:93:LEU:HD23	9:F:839:HOH:O	2.04	0.58
2:C:884:GLN:HG3	2:C:885:ILE:HD13	1.85	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:350:LEU:HD23	5:P:351:SER:N	2.19	0.58
5:F:414:ARG:HH11	5:F:414:ARG:HG2	1.68	0.58
5:P:267:THR:O	5:P:271:LEU:HG	2.04	0.58
2:M:203:ASP:OD1	2:M:206:THR:HG22	2.04	0.58
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.86	0.58
3:D:1159:ARG:HB3	3:D:1159:ARG:CZ	2.34	0.58
3:N:659:LYS:O	3:N:663:GLU:HG3	2.04	0.58
3:D:1450:ALA:HA	9:D:2279:HOH:O	2.04	0.58
5:P:297:PRO:HB2	9:P:446:HOH:O	2.04	0.58
3:D:924:MET:HG2	9:D:2460:HOH:O	2.03	0.58
2:M:409:ARG:HH12	2:M:444:PRO:HG3	1.69	0.57
3:D:82:LYS:HB3	9:D:2110:HOH:O	2.03	0.57
3:D:478:LEU:HD12	9:D:2336:HOH:O	2.03	0.57
2:C:197:LEU:HB3	2:C:202:TYR:HB2	1.85	0.57
2:C:328:LEU:HB2	2:C:488:ALA:HB2	1.85	0.57
5:F:80:PRO:HA	5:F:83:GLN:HB2	1.85	0.57
2:C:798:GLY:H	2:C:827:VAL:CG1	2.17	0.57
3:D:809:PRO:O	3:D:812:ALA:HB3	2.04	0.57
3:N:1209:LEU:HD23	3:N:1211:MET:H	1.69	0.57
5:P:187:LEU:HD22	5:P:191:ASN:HD21	1.69	0.57
1:A:178:ALA:CB	2:C:864:GLY:H	2.17	0.57
2:C:420:ARG:CD	2:C:420:ARG:H	2.17	0.57
3:N:136:ASP:HB3	9:N:9523:HOH:O	2.03	0.57
1:A:117:VAL:HB	1:A:120:VAL:HG12	1.84	0.57
3:N:591:VAL:HG11	3:N:597:ASP:HA	1.86	0.57
1:K:182:GLU:O	1:K:194:LYS:HB3	2.04	0.57
2:C:962:GLN:HB2	9:C:9244:HOH:O	2.02	0.57
3:N:1439:SER:HB2	3:N:1440:PHE:CD2	2.39	0.57
4:O:40:LEU:HD13	9:O:1900:HOH:O	2.04	0.57
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.04	0.57
2:C:110:GLU:HG2	2:C:369:PRO:CB	2.27	0.57
3:N:817:GLU:O	3:N:821:VAL:HG23	2.03	0.57
3:D:1394:VAL:HG11	9:D:2234:HOH:O	2.04	0.57
2:M:144:PRO:HA	2:M:163:ILE:HG13	1.86	0.57
2:C:139:GLN:HE22	2:C:415:PRO:HD3	1.69	0.57
3:D:1437:ALA:HA	3:D:1440:PHE:CE1	2.39	0.57
3:N:1369:GLU:O	3:N:1372:VAL:HG12	2.03	0.57
4:O:45:ARG:HB3	9:O:1900:HOH:O	2.04	0.57
2:C:614:ARG:HG3	9:C:9897:HOH:O	2.04	0.57
2:M:242:LEU:HD21	9:M:2345:HOH:O	2.03	0.57
3:N:1320:GLU:HG3	9:N:9614:HOH:O	2.04	0.57
1:A:211:LEU:O	1:A:215:VAL:HG13	2.04	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:260:LEU:HA	2:C:291:ALA:HB2	1.86	0.57
2:M:5:ARG:HB3	2:M:902:ILE:HB	1.84	0.57
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.70	0.57
3:N:710:ARG:HH22	3:N:1210:SER:HB2	1.69	0.57
3:D:1173:LEU:HD23	3:D:1174:LEU:HD23	1.86	0.57
3:D:154:THR:OG1	3:D:156:GLU:HG2	2.04	0.57
3:D:1164:ARG:HG3	3:D:1164:ARG:HH11	1.70	0.57
3:D:644:LEU:HD12	3:D:645:PRO:HD2	1.87	0.57
1:A:90:LEU:HD12	1:A:119:ASP:O	2.04	0.57
3:D:1296:SER:HA	9:D:2689:HOH:O	2.03	0.57
3:N:583:ASP:HB2	3:N:604:THR:OG1	2.05	0.57
2:C:319:GLY:HA2	9:C:9429:HOH:O	2.05	0.57
3:D:958:GLU:HB3	9:D:2309:HOH:O	2.04	0.57
2:C:432:ARG:NH1	3:D:1048:PRO:HD2	2.17	0.57
3:D:59:ALA:HB3	9:D:9193:HOH:O	2.03	0.57
2:C:313:LEU:HB2	2:C:321:GLU:HG3	1.87	0.57
3:D:141:ILE:HG13	9:D:2754:HOH:O	2.03	0.57
5:F:358:LEU:HD13	5:F:370:LYS:HG3	1.84	0.57
2:M:910:LYS:HB2	2:M:913:GLU:OE1	2.03	0.57
2:M:134:ARG:HH21	2:M:393:GLN:HA	1.70	0.57
3:N:545:ARG:HD2	9:P:707:HOH:O	2.02	0.57
3:N:1412:LYS:HG2	3:N:1414:PRO:HG3	1.85	0.57
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.40	0.57
1:B:81:ASN:O	1:B:84:GLU:HB3	2.05	0.57
3:N:1341:PRO:HA	3:N:1344:VAL:HG23	1.86	0.57
8:D:9001:TGT:H113	9:D:9576:HOH:O	2.03	0.57
2:M:801:VAL:HG23	9:M:1206:HOH:O	2.04	0.57
2:M:194:VAL:HG21	2:M:221:LEU:O	2.04	0.57
3:D:1105:ILE:HD11	3:D:1374:GLN:HE22	1.69	0.57
2:C:773:LEU:HG	2:C:777:ILE:HD11	1.87	0.57
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.33	0.57
5:F:290:GLU:HG3	9:F:512:HOH:O	2.03	0.57
3:N:404:GLU:HB3	3:N:414:ARG:NE	2.19	0.57
2:M:115:LEU:HD13	2:M:373:VAL:HG11	1.87	0.57
2:M:840:ALA:HB1	9:M:1232:HOH:O	2.03	0.57
3:N:1194:CYS:HB3	3:N:1373:ARG:NH2	2.19	0.57
2:C:271:GLU:HG2	9:C:9077:HOH:O	2.04	0.57
3:N:1051:GLU:HG3	3:N:1051:GLU:O	2.03	0.57
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.87	0.57
2:M:152:PRO:HB3	9:M:2122:HOH:O	2.03	0.57
4:E:52:GLU:HB3	4:E:55:PHE:CZ	2.40	0.57
3:D:434:ARG:HB2	3:D:447:VAL:HG13	1.85	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:305:PRO:HA	2:M:308:ARG:NE	2.20	0.57
3:N:571:LYS:NZ	3:N:571:LYS:HB2	2.18	0.57
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.85	0.57
1:A:14:ARG:CZ	1:A:22:GLU:HB3	2.34	0.57
3:N:54:LYS:HB3	9:N:9567:HOH:O	2.04	0.57
5:F:365:GLU:OE1	5:F:400:ILE:HD12	2.05	0.57
4:O:14:ASP:OD1	4:O:18:ARG:HD2	2.04	0.57
2:M:333:ILE:N	2:M:333:ILE:HD12	2.20	0.57
2:M:605:LYS:HD3	2:M:610:ARG:CZ	2.34	0.57
1:L:178:ALA:HB1	1:L:198:ARG:HH21	1.70	0.57
3:D:756:GLN:O	3:D:760:ARG:HG2	2.04	0.57
3:D:153:LEU:HD12	3:D:154:THR:H	1.70	0.57
2:C:654:LEU:HD11	2:C:663:ASN:HD22	1.69	0.57
5:P:129:GLU:HB3	5:P:142:ARG:NH2	2.19	0.57
3:N:473:LEU:HB2	9:N:2375:HOH:O	2.04	0.57
2:C:958:THR:HG23	2:C:961:GLU:HB2	1.86	0.57
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.86	0.57
1:K:161:ARG:HB2	1:K:161:ARG:CZ	2.35	0.57
3:N:1220:ALA:HB1	3:N:1223:ILE:HD13	1.87	0.57
3:D:1003:VAL:O	3:D:1006:ALA:HB3	2.05	0.57
3:D:1123:PHE:HE2	3:D:1184:GLN:HE21	1.51	0.57
3:D:185:VAL:HG12	3:D:191:LEU:HD21	1.86	0.57
2:C:464:LEU:O	2:C:466:PHE:N	2.38	0.57
3:N:820:GLU:HG3	3:N:836:VAL:CG1	2.34	0.57
3:N:754:PHE:HZ	4:O:21:VAL:HG13	1.69	0.57
3:D:1393:GLN:HG3	3:D:1398:TRP:HZ2	1.70	0.57
5:F:299:TRP:CE3	5:F:303:ARG:HD3	2.39	0.57
2:C:585:GLU:HG2	2:C:586:ARG:H	1.70	0.57
2:M:22:GLN:HE22	2:M:336:VAL:HG21	1.70	0.57
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.04	0.57
3:N:658:LEU:HD21	3:N:674:ARG:NH1	2.20	0.57
1:K:226:SER:O	1:K:228:PRO:HD3	2.05	0.57
1:B:186:LEU:O	1:B:186:LEU:HD23	2.04	0.57
1:B:46:SER:HB2	9:B:642:HOH:O	2.05	0.57
3:N:172:PRO:HD2	3:N:389:GLU:O	2.04	0.57
1:B:140:MET:HG3	9:B:510:HOH:O	2.03	0.57
5:F:256:ARG:HD2	9:F:793:HOH:O	2.02	0.57
3:D:1025:GLN:HB3	9:D:2121:HOH:O	2.04	0.57
3:N:250:LEU:HA	9:N:9526:HOH:O	2.04	0.57
2:M:952:LEU:CD1	2:M:969:GLN:HE22	2.10	0.57
2:C:1081:VAL:CG2	2:C:1111:ILE:HG22	2.34	0.57
2:C:194:VAL:HA	2:C:197:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:304:LEU:HD23	2:C:305:PRO:HD3	1.85	0.57
2:C:625:LEU:HD11	2:C:641:PRO:HG3	1.85	0.57
3:N:471:GLU:O	3:N:475:LYS:HD3	2.05	0.57
2:M:139:GLN:HE21	2:M:334:ARG:HH11	1.51	0.57
2:C:380:ALA:HA	2:C:383:ARG:HD3	1.87	0.57
1:A:41:ARG:O	1:A:45:LEU:HD12	2.05	0.57
3:D:1109:GLU:CD	3:D:1202:GLN:H	2.07	0.57
2:C:455:LEU:H	2:C:455:LEU:HD23	1.69	0.57
2:M:841:ASN:HD22	2:M:841:ASN:C	2.08	0.57
3:D:502:PHE:CE2	3:D:1452:ILE:HG13	2.39	0.57
1:B:132:LEU:HG	1:B:136:GLY:HA3	1.86	0.57
5:P:280:GLN:HB2	9:P:763:HOH:O	2.05	0.57
2:C:531:PHE:HB3	9:C:9955:HOH:O	2.05	0.57
3:N:1391:GLU:HG2	9:N:9461:HOH:O	2.05	0.57
3:N:771:SER:HB2	3:N:778:LEU:HD13	1.85	0.57
3:N:487:ALA:HA	9:N:9529:HOH:O	2.03	0.57
3:N:543:LEU:O	3:N:546:ARG:HB2	2.04	0.57
3:N:199:LEU:HD21	9:N:9291:HOH:O	2.02	0.57
2:C:724:ARG:HG3	2:C:741:GLY:N	2.10	0.57
5:P:291:ILE:O	5:P:295:MET:HB2	2.05	0.57
2:C:516:ARG:CZ	3:D:1068:LEU:HB3	2.35	0.57
3:D:1068:LEU:HD23	3:D:1071:PHE:HB3	1.86	0.57
5:P:403:LYS:HZ2	5:P:403:LYS:HA	1.70	0.57
3:D:400:VAL:HG12	3:D:401:TYR:HD1	1.70	0.57
4:E:26:ARG:O	4:E:29:GLN:HG2	2.04	0.57
2:M:841:ASN:HB2	9:M:1160:HOH:O	2.05	0.57
2:M:892:LEU:HD21	2:M:967:PHE:CZ	2.40	0.57
5:P:302:LYS:HG2	9:P:484:HOH:O	2.03	0.57
1:A:123:MET:C	1:A:125:PRO:HD3	2.24	0.57
2:M:759:THR:HB	2:M:785:VAL:CG2	2.34	0.57
4:E:18:ARG:HD2	9:E:128:HOH:O	2.05	0.57
3:D:194:GLY:N	3:D:206:ARG:HA	2.18	0.57
2:M:535:SER:HB2	2:M:537:LYS:NZ	2.19	0.57
2:C:515:ALA:C	2:C:516:ARG:HG2	2.26	0.57
3:D:510:GLU:O	3:D:513:ILE:HD12	2.04	0.57
2:M:18:LEU:HD23	2:M:404:LEU:HD11	1.85	0.57
3:D:32:ILE:HG23	9:D:9129:HOH:O	2.04	0.57
5:P:230:LYS:HE3	9:P:688:HOH:O	2.04	0.57
2:C:551:GLU:HG3	2:C:552:HIS:CD2	2.40	0.57
3:N:1289:LYS:HG2	9:N:2244:HOH:O	2.04	0.57
3:D:1467:ILE:HA	9:D:9872:HOH:O	2.04	0.57
2:M:208:ALA:O	2:M:218:VAL:HG21	2.04	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:562:ALA:HB1	3:N:567:ILE:HD11	1.85	0.56
2:C:1085:PHE:HE2	3:D:1468:LEU:HG	1.69	0.56
2:C:773:LEU:HD22	5:F:373:LYS:HB2	1.87	0.56
3:N:1291:SER:HB3	9:N:9681:HOH:O	2.05	0.56
5:P:408:LEU:O	5:P:412:GLU:HG2	2.04	0.56
3:N:783:ARG:HD2	3:N:1029:ARG:CG	2.34	0.56
2:C:575:GLN:NE2	2:C:671:ASN:HD22	2.02	0.56
2:M:983:ILE:HG21	2:M:987:ILE:HD11	1.86	0.56
2:C:1071:ILE:O	3:D:659:LYS:HG2	2.04	0.56
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.86	0.56
2:M:139:GLN:HG2	2:M:418:LEU:HD22	1.86	0.56
3:N:527:MET:HE3	3:N:537:THR:HB	1.87	0.56
1:B:218:LEU:O	1:B:222:LEU:HG	2.04	0.56
2:C:837:ASP:O	2:C:849:VAL:HG23	2.04	0.56
2:M:137:VAL:HG23	2:M:391:LEU:HG	1.87	0.56
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.86	0.56
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.70	0.56
5:P:321:ILE:HG22	5:P:322:GLY:N	2.19	0.56
3:N:463:GLN:O	3:N:467:GLU:HG3	2.05	0.56
1:B:50:GLY:O	1:B:146:ARG:HA	2.05	0.56
3:D:1441:GLN:NE2	3:D:1442:ASN:HB2	2.21	0.56
3:N:712:GLY:C	3:N:713:ILE:HD12	2.26	0.56
1:A:219:ARG:HH22	1:B:223:THR:HG22	1.69	0.56
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.86	0.56
2:C:218:VAL:HG22	2:C:221:LEU:HD23	1.88	0.56
5:F:234:LYS:HG3	9:F:495:HOH:O	2.05	0.56
1:A:184:THR:HG23	1:A:192:LEU:HD12	1.86	0.56
2:M:310:LEU:HD21	9:M:1874:HOH:O	2.05	0.56
5:F:363:GLU:O	5:F:367:MET:HG2	2.05	0.56
2:M:906:PHE:CD1	3:N:1067:VAL:HG22	2.40	0.56
3:D:513:ILE:HG23	9:D:9275:HOH:O	2.05	0.56
3:N:119:SER:CB	3:N:123:LEU:HB2	2.35	0.56
2:M:791:ARG:HH11	2:M:791:ARG:HB3	1.70	0.56
2:M:70:GLU:HA	9:M:1400:HOH:O	2.04	0.56
3:D:699:VAL:HG22	3:D:756:GLN:NE2	2.19	0.56
2:M:926:PHE:O	2:M:930:LYS:HG3	2.05	0.56
1:L:100:LEU:O	1:L:115:LEU:HG	2.05	0.56
1:L:170:VAL:HG11	3:N:848:GLU:CD	2.25	0.56
3:D:168:THR:OG1	3:D:393:ILE:HB	2.05	0.56
3:D:611:GLN:HB2	9:D:9133:HOH:O	2.05	0.56
2:M:848:VAL:HB	3:N:740:PHE:O	2.06	0.56
2:C:1031:ARG:HH11	2:C:1031:ARG:HG3	1.70	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:151:VAL:HG21	9:L:7686:HOH:O	2.05	0.56
2:C:758:ARG:HB3	2:C:788:THR:O	2.05	0.56
3:D:130:SER:HA	9:D:9652:HOH:O	2.03	0.56
2:M:218:VAL:HA	2:M:221:LEU:HD23	1.87	0.56
2:M:305:PRO:CG	2:M:308:ARG:HH21	2.19	0.56
9:C:9607:HOH:O	3:D:943:THR:HG21	2.06	0.56
2:C:1115:LEU:HD23	3:D:85:VAL:CA	2.35	0.56
3:D:42:ASP:O	3:D:46:ASP:HB2	2.05	0.56
2:M:1018:GLN:HE21	2:M:1063:ARG:HH22	1.52	0.56
2:C:799:ILE:HB	9:C:9536:HOH:O	2.03	0.56
2:C:264:PRO:HB3	2:C:289:THR:CB	2.35	0.56
3:D:565:ILE:HD11	5:F:189:GLU:CD	2.26	0.56
1:A:30:ARG:HH12	2:C:938:LYS:HZ2	1.51	0.56
2:M:174:LEU:HB2	2:M:310:LEU:HD22	1.87	0.56
3:N:922:LEU:HB3	3:N:926:LYS:HD3	1.86	0.56
3:D:1394:VAL:HG23	9:D:9862:HOH:O	2.03	0.56
1:K:96:THR:HG22	1:K:145:ASP:OD2	2.06	0.56
2:M:52:PHE:HZ	2:M:98:LEU:HG	1.71	0.56
3:N:999:THR:O	3:N:1002:LYS:HB2	2.06	0.56
1:L:186:LEU:O	1:L:186:LEU:HD23	2.05	0.56
3:D:1412:LYS:HG2	3:D:1414:PRO:HG3	1.86	0.56
3:N:1310:ARG:HG3	3:N:1327:ARG:HB3	1.88	0.56
2:C:91:GLN:HA	2:C:119:PRO:HA	1.88	0.56
2:C:145:GLY:HA3	9:C:9614:HOH:O	2.05	0.56
3:D:961:LYS:HG2	3:D:962:GLN:N	2.18	0.56
2:C:443:THR:CG2	2:C:450:GLY:H	2.17	0.56
2:C:12:VAL:HG13	2:C:13:ILE:HG12	1.87	0.56
1:A:110:LYS:HD2	9:A:525:HOH:O	2.04	0.56
2:M:276:LYS:O	2:M:280:LYS:HB2	2.05	0.56
2:M:621:VAL:HG21	9:M:1969:HOH:O	2.05	0.56
3:N:380:GLU:O	3:N:382:GLU:N	2.37	0.56
4:E:20:THR:HB	9:E:115:HOH:O	2.05	0.56
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.04	0.56
1:K:104:GLU:HG3	9:K:6398:HOH:O	2.04	0.56
2:C:151:ASP:HB2	2:C:157:ARG:O	2.05	0.56
3:D:427:VAL:CG2	3:D:435:VAL:HB	2.35	0.56
3:D:172:PRO:HB2	3:D:389:GLU:OE1	2.06	0.56
2:M:5:ARG:CB	2:M:902:ILE:HB	2.35	0.56
1:B:212:ASN:O	1:B:215:VAL:HG22	2.05	0.56
1:A:222:LEU:HD11	1:B:218:LEU:HD23	1.86	0.56
2:C:1103:ASP:O	3:D:7:LYS:HE2	2.06	0.56
5:F:152:ASP:HB2	5:F:153:PRO:HD3	1.86	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:865:THR:HB	9:C:9509:HOH:O	2.04	0.56
2:C:34:VAL:CG1	2:C:38:LYS:HG3	2.35	0.56
3:N:774:SER:C	3:N:776:GLU:H	2.09	0.56
2:C:69:LEU:HB3	9:C:9545:HOH:O	2.06	0.56
3:N:808:THR:HB	3:N:809:PRO:HD3	1.87	0.56
1:K:212:ASN:O	1:K:215:VAL:HG22	2.05	0.56
1:L:5:LYS:O	1:L:8:ALA:HB2	2.06	0.56
3:D:493:ARG:HG2	9:D:9725:HOH:O	2.06	0.56
2:M:460:ARG:HD3	9:M:1387:HOH:O	2.06	0.56
3:D:1273:VAL:O	3:D:1325:LEU:HB2	2.05	0.56
4:E:13:VAL:HG11	4:E:19:LEU:HB2	1.87	0.56
2:M:503:LEU:HD12	2:M:505:GLY:H	1.68	0.56
2:M:395:LYS:HE2	2:M:403:SER:OG	2.06	0.56
2:M:627:ARG:HA	9:M:1127:HOH:O	2.06	0.56
3:D:374:GLU:HA	9:D:9592:HOH:O	2.06	0.56
3:N:1136:LYS:O	3:N:1140:ILE:HG13	2.04	0.56
2:M:94:LEU:HG	9:M:2309:HOH:O	2.06	0.56
1:K:28:LEU:HA	9:K:3198:HOH:O	2.05	0.56
1:L:27:PRO:HB3	1:L:192:LEU:HD22	1.86	0.56
1:A:52:ALA:HA	9:A:329:HOH:O	2.05	0.56
3:N:1192:LEU:HD22	3:N:1345:GLU:CD	2.26	0.56
2:M:76:PRO:HB3	9:M:1386:HOH:O	2.05	0.56
3:N:592:THR:N	3:N:600:LEU:HD21	2.20	0.56
3:D:57:GLU:HG3	3:D:64:LYS:HE3	1.86	0.56
3:D:550:ARG:HA	9:D:9553:HOH:O	2.05	0.56
3:D:1099:VAL:HG13	3:D:1223:ILE:HG23	1.86	0.56
2:C:607:ASP:HB3	2:C:609:ASN:H	1.70	0.56
2:C:710:ILE:HB	2:C:790:LEU:HD22	1.88	0.56
3:N:907:GLU:HG2	3:N:908:LYS:H	1.70	0.56
2:M:134:ARG:NH2	2:M:393:GLN:HA	2.21	0.56
3:N:1114:THR:HG23	3:N:1116:ASN:ND2	2.21	0.56
2:M:1068:GLU:OE1	5:P:345:ALA:HA	2.06	0.56
5:P:187:LEU:CD2	5:P:191:ASN:HD21	2.18	0.56
3:N:1258:ARG:NE	3:N:1262:LEU:HD11	2.20	0.56
2:M:1000:MET:HB2	9:M:1539:HOH:O	2.05	0.56
2:C:788:THR:HG21	9:C:9498:HOH:O	2.06	0.56
3:N:368:VAL:HA	9:N:9601:HOH:O	2.05	0.56
2:M:261:ILE:HG12	9:M:1716:HOH:O	2.05	0.56
2:M:728:HIS:O	2:M:729:LEU:HG	2.06	0.56
2:M:290:LEU:HD22	2:M:302:VAL:HG11	1.86	0.56
3:N:52:PRO:HB2	3:N:80:VAL:HG13	1.87	0.56
2:M:464:LEU:O	2:M:466:PHE:N	2.37	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:681:ARG:HH11	3:N:681:ARG:CB	2.18	0.56
2:M:1085:PHE:CE2	3:N:1468:LEU:HG	2.41	0.56
3:N:1462:LEU:HD22	3:N:1472:ILE:HG23	1.87	0.56
2:C:1102:LEU:HB3	9:C:9127:HOH:O	2.04	0.56
2:C:480:THR:HA	9:C:9101:HOH:O	2.04	0.56
5:F:278:LEU:O	5:F:282:LEU:HG	2.05	0.56
3:D:704:ARG:CG	3:D:736:PHE:HB3	2.35	0.56
5:P:264:MET:O	5:P:267:THR:HB	2.06	0.56
4:E:67:GLU:HB2	4:E:73:LEU:HD11	1.88	0.56
3:N:1223:ILE:H	3:N:1223:ILE:HD12	1.71	0.56
9:D:9365:HOH:O	5:F:75:ILE:HD13	2.03	0.56
2:C:1004:LYS:HE3	9:C:9959:HOH:O	2.05	0.56
3:D:770:LEU:HB2	3:D:1210:SER:O	2.05	0.56
3:N:530:VAL:HG23	3:N:534:ARG:O	2.06	0.56
3:D:122:GLU:O	3:D:126:VAL:HG23	2.06	0.56
2:M:41:ASN:O	2:M:46:ALA:HB2	2.06	0.56
3:N:581:LEU:HD12	3:N:603:LEU:HD11	1.88	0.56
2:C:287:GLY:HA3	9:C:9623:HOH:O	2.04	0.56
2:C:630:ARG:NH2	2:C:707:ARG:HB2	2.21	0.56
3:D:161:LEU:O	3:D:449:SER:HB2	2.05	0.56
3:N:695:ILE:HG21	3:N:720:LEU:HD11	1.87	0.56
3:N:1399:ASP:O	3:N:1403:LEU:HB2	2.06	0.56
2:M:966:LEU:HD21	2:M:986:PRO:HG3	1.88	0.56
2:M:1109:VAL:HG11	3:N:5:VAL:HG22	1.88	0.56
4:E:54:LEU:O	4:E:54:LEU:HD23	2.06	0.56
3:N:149:LYS:HA	9:N:9205:HOH:O	2.05	0.56
3:D:3:LYS:HB2	9:D:2111:HOH:O	2.05	0.56
2:M:113:VAL:HG12	2:M:115:LEU:HD21	1.88	0.56
2:M:722:ILE:HG22	9:M:2019:HOH:O	2.05	0.56
2:M:802:ARG:HB2	9:M:1206:HOH:O	2.05	0.56
2:C:157:ARG:HE	2:C:157:ARG:HA	1.70	0.56
3:D:1117:TYR:HE2	3:D:1151:ARG:HH21	1.53	0.56
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.70	0.56
2:M:618:GLY:HA2	9:M:1261:HOH:O	2.05	0.56
2:C:462:ASP:CG	2:C:463:GLU:H	2.09	0.56
2:C:479:VAL:HG23	2:C:506:ASN:HA	1.87	0.56
2:C:126:SER:HB3	2:C:395:LYS:HZ2	1.70	0.56
2:M:144:PRO:HG3	2:M:165:LEU:HB2	1.88	0.56
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.87	0.56
3:D:838:ARG:HG2	3:D:865:THR:HG23	1.87	0.56
3:D:656:PHE:HB3	3:D:694:VAL:HG11	1.88	0.56
3:D:1087:ARG:HG3	3:D:1234:THR:HA	1.88	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:564:MET:HE1	9:M:1838:HOH:O	2.06	0.56
4:E:51:LEU:HD12	4:E:52:GLU:H	1.70	0.56
5:F:207:LEU:HB3	5:F:212:LEU:HG	1.88	0.56
3:N:1003:VAL:O	3:N:1006:ALA:HB3	2.06	0.56
2:M:794:PRO:HB2	2:M:1027:PHE:CE2	2.40	0.56
3:D:1033:GLN:HE21	3:D:1036:ARG:HH12	1.54	0.56
3:D:774:SER:C	3:D:776:GLU:H	2.08	0.56
3:D:1136:LYS:HA	9:D:9746:HOH:O	2.04	0.56
3:D:394:LEU:HD22	3:D:396:VAL:HB	1.87	0.56
3:N:553:ARG:HD3	9:P:667:HOH:O	2.05	0.56
3:D:787:LEU:HD21	3:D:947:ILE:CD1	2.36	0.56
3:D:544:TYR:O	3:D:548:ILE:HG12	2.06	0.56
3:D:78:VAL:HG23	9:D:2426:HOH:O	2.05	0.56
3:D:183:GLU:O	3:D:186:VAL:HG12	2.06	0.56
3:D:181:ASP:O	3:D:185:VAL:HG23	2.05	0.56
3:N:52:PRO:HG2	3:N:79:GLU:O	2.06	0.56
3:D:1140:ILE:HG21	3:D:1175:ILE:HD11	1.88	0.56
2:M:575:GLN:HB2	9:M:1945:HOH:O	2.06	0.56
1:B:128:HIS:HB3	9:B:620:HOH:O	2.05	0.56
2:M:701:THR:HA	2:M:831:ARG:O	2.04	0.56
1:A:198:ARG:C	1:A:199:ILE:HD12	2.26	0.56
5:F:151:LEU:HB3	9:F:473:HOH:O	2.05	0.56
5:P:323:ASP:HB3	5:P:325:LYS:HZ3	1.71	0.56
3:N:969:ARG:O	3:N:972:LEU:HB3	2.06	0.56
2:M:1014:SER:HB3	2:M:1017:THR:O	2.05	0.56
3:D:480:GLU:O	3:D:484:PRO:HD2	2.05	0.56
1:K:161:ARG:HB2	1:K:161:ARG:NH1	2.21	0.56
1:B:12:THR:OG1	1:B:24:VAL:HB	2.05	0.56
2:C:711:GLU:HG2	2:C:822:VAL:HG12	1.87	0.56
3:N:1129:THR:HG23	3:N:1130:ARG:H	1.70	0.56
2:M:510:ALA:HB3	2:M:513:VAL:CG2	2.36	0.56
3:N:438:ASP:HB2	9:P:527:HOH:O	2.06	0.56
3:N:205:TYR:HA	9:N:2314:HOH:O	2.05	0.55
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.06	0.55
2:C:666:LEU:HD21	2:C:668:LEU:HD11	1.87	0.55
2:M:551:GLU:HG3	2:M:552:HIS:HD2	1.72	0.55
3:N:95:LEU:CD2	3:N:574:LEU:HD11	2.35	0.55
3:N:574:LEU:O	3:N:578:VAL:HG23	2.06	0.55
1:L:58:ILE:HG22	9:L:1893:HOH:O	2.06	0.55
3:D:1361:VAL:HG23	9:D:9265:HOH:O	2.06	0.55
1:K:57:TYR:CE2	1:K:59:GLU:HA	2.41	0.55
3:D:1330:ILE:HD12	3:D:1347:TYR:CE1	2.41	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.87	0.55
2:C:83:CYS:HA	2:C:88:LEU:HB2	1.87	0.55
3:D:956:ILE:HG12	3:D:1039:CYS:O	2.06	0.55
2:C:1094:ALA:HB1	3:D:603:LEU:HD13	1.87	0.55
3:D:572:ARG:NH1	5:F:80:PRO:HD3	2.21	0.55
3:D:637:LEU:HD12	3:D:641:GLN:OE1	2.05	0.55
2:C:846:LYS:HD2	9:D:2312:HOH:O	2.05	0.55
3:N:1141:GLU:HB3	3:N:1168:MET:HE1	1.89	0.55
1:K:143:ARG:NH1	1:K:143:ARG:HG2	2.19	0.55
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.37	0.55
1:A:198:ARG:HD3	1:A:200:TRP:HH2	1.72	0.55
5:P:268:ILE:HA	5:P:271:LEU:HD12	1.86	0.55
2:M:1014:SER:OG	5:P:331:ASP:HA	2.06	0.55
3:D:1087:ARG:NE	3:D:1238:MET:HB2	2.21	0.55
3:N:637:LEU:HD21	3:N:643:GLY:N	2.20	0.55
2:C:717:LEU:HD12	9:C:2230:HOH:O	2.06	0.55
2:C:541:SER:HB2	9:C:9304:HOH:O	2.06	0.55
3:N:866:VAL:HG11	9:N:9225:HOH:O	2.05	0.55
3:D:1280:VAL:O	3:D:1294:VAL:HA	2.06	0.55
3:D:152:LEU:HD23	3:D:152:LEU:H	1.71	0.55
3:D:162:ARG:HH21	3:D:434:ARG:NH2	2.04	0.55
3:N:550:ARG:NH1	3:N:577:ALA:HB2	2.22	0.55
2:C:431:HIS:CD2	2:C:433:THR:H	2.24	0.55
2:C:433:THR:O	2:C:437:ARG:HD2	2.07	0.55
1:A:14:ARG:HB3	9:A:383:HOH:O	2.05	0.55
1:B:73:GLU:HB3	1:B:77:GLU:HG3	1.86	0.55
2:C:549:PHE:CE2	2:C:886:LEU:HB3	2.41	0.55
5:F:264:MET:O	5:F:267:THR:HB	2.06	0.55
3:D:1129:THR:HA	9:D:9951:HOH:O	2.06	0.55
1:B:57:TYR:HB3	1:B:141:GLU:CG	2.34	0.55
2:M:404:LEU:HA	2:M:407:LYS:HD2	1.87	0.55
2:M:607:ASP:HB3	2:M:609:ASN:H	1.71	0.55
2:M:674:VAL:HB	2:M:869:VAL:HG12	1.88	0.55
3:D:402:PRO:HG2	3:D:444:VAL:HG11	1.88	0.55
3:N:1434:TRP:NE1	3:N:1435:LEU:HD12	2.21	0.55
2:M:773:LEU:HG	2:M:777:ILE:HD11	1.88	0.55
4:E:4:PRO:HA	9:E:103:HOH:O	2.05	0.55
3:N:1331:ASP:OD1	3:N:1333:HIS:HB2	2.06	0.55
2:C:129:ILE:CG1	2:C:386:PHE:HB3	2.36	0.55
1:B:30:ARG:HA	9:B:332:HOH:O	2.05	0.55
3:N:903:ASP:HA	9:N:9455:HOH:O	2.06	0.55
2:C:203:ASP:OD1	2:C:205:GLU:HG3	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:82:ARG:HG2	5:P:86:HIS:NE2	2.21	0.55
2:C:292:ARG:HB2	2:C:299:LYS:HE2	1.89	0.55
2:C:755:LEU:HD21	2:C:792:VAL:HG22	1.88	0.55
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.22	0.55
2:C:101:ILE:HG22	2:C:102:HIS:H	1.71	0.55
3:N:536:ALA:HA	5:P:315:VAL:O	2.05	0.55
2:C:1000:MET:O	2:C:1003:ASP:HB3	2.06	0.55
3:N:1464:GLU:HG3	9:N:9821:HOH:O	2.06	0.55
5:F:156:VAL:HB	9:F:795:HOH:O	2.06	0.55
3:N:1432:LYS:HA	9:N:9471:HOH:O	2.05	0.55
3:D:1112:CYS:HB2	9:D:9138:HOH:O	2.06	0.55
3:N:159:ARG:HH11	3:N:159:ARG:HB2	1.71	0.55
3:D:790:TYR:CE1	3:D:794:GLN:HG3	2.41	0.55
1:B:24:VAL:HG13	1:B:196:THR:HG22	1.87	0.55
1:B:2:LEU:HD12	1:B:3:ASP:N	2.21	0.55
2:M:816:LYS:HB2	2:M:819:VAL:HG21	1.88	0.55
5:P:272:SER:HB2	9:P:681:HOH:O	2.06	0.55
2:C:676:ILE:HG22	2:C:988:VAL:HG22	1.89	0.55
2:C:979:THR:HG23	2:C:981:GLU:N	2.10	0.55
3:N:183:GLU:O	3:N:186:VAL:HG12	2.06	0.55
2:M:313:LEU:HA	9:M:1315:HOH:O	2.06	0.55
2:M:332:ARG:HE	2:M:464:LEU:HG	1.70	0.55
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.06	0.55
1:L:50:GLY:O	1:L:146:ARG:HA	2.07	0.55
3:N:1493:LYS:HD2	9:N:2138:HOH:O	2.07	0.55
3:D:104:PHE:CD2	3:D:1448:THR:HG23	2.42	0.55
2:M:61:LYS:HE2	9:M:2301:HOH:O	2.07	0.55
5:F:191:ASN:HA	9:F:669:HOH:O	2.07	0.55
3:N:1220:ALA:HB1	3:N:1223:ILE:CD1	2.36	0.55
4:O:33:HIS:HB2	4:O:37:ASN:ND2	2.22	0.55
2:M:370:ALA:HA	9:M:1705:HOH:O	2.07	0.55
3:D:1047:LYS:HA	3:D:1053:PHE:CE1	2.41	0.55
3:D:523:ASP:N	9:D:2209:HOH:O	2.39	0.55
2:M:1032:PHE:CE2	2:M:1052:MET:HG2	2.42	0.55
2:C:281:LEU:CD1	2:C:306:THR:HA	2.35	0.55
4:E:13:VAL:HA	9:E:162:HOH:O	2.06	0.55
2:C:585:GLU:HG2	9:C:9499:HOH:O	2.06	0.55
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.87	0.55
3:N:828:LYS:N	3:N:828:LYS:HD3	2.22	0.55
2:M:136:ILE:HB	2:M:336:VAL:HG22	1.88	0.55
3:N:1114:THR:CG2	3:N:1195:GLN:HB3	2.37	0.55
2:M:165:LEU:HD13	2:M:166:PRO:C	2.27	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:20:TYR:CD2	1:A:21:GLY:N	2.75	0.55
3:N:928:ALA:HA	3:N:931:LEU:HD12	1.88	0.55
3:N:466:LYS:HB2	9:N:9553:HOH:O	2.07	0.55
3:N:789:LEU:HD22	3:N:882:PHE:CE1	2.42	0.55
2:M:203:ASP:CG	2:M:206:THR:HG22	2.27	0.55
2:C:1008:ARG:HH21	2:C:1028:GLY:HA2	1.72	0.55
3:D:966:GLU:O	3:D:969:ARG:HG2	2.06	0.55
1:A:2:LEU:HB3	9:A:364:HOH:O	2.06	0.55
3:N:137:PRO:HD2	3:N:453:ASP:CB	2.36	0.55
3:D:866:VAL:O	3:D:873:LEU:HD12	2.06	0.55
2:C:897:LEU:HD11	2:C:920:GLN:HG2	1.87	0.55
3:N:637:LEU:HD12	3:N:641:GLN:OE1	2.06	0.55
3:N:736:PHE:HA	9:N:9145:HOH:O	2.06	0.55
3:N:937:TYR:HD2	3:N:941:PHE:HE1	1.54	0.55
2:M:1044:GLY:HA3	4:O:17:TYR:CE1	2.41	0.55
5:F:335:ASP:OD1	5:F:338:LEU:HB2	2.07	0.55
3:N:502:PHE:CE1	3:N:509:PRO:HB3	2.42	0.55
3:N:791:TYR:HB2	9:N:9984:HOH:O	2.07	0.55
5:F:74:LYS:HA	9:F:802:HOH:O	2.07	0.55
2:M:169:GLY:HA2	2:M:263:ASP:CB	2.30	0.55
3:D:500:ARG:HG3	9:D:9482:HOH:O	2.07	0.55
3:D:551:ASN:O	3:D:555:LYS:HG3	2.06	0.55
5:F:400:ILE:HG23	9:F:704:HOH:O	2.07	0.55
5:F:292:ALA:HB1	5:F:299:TRP:O	2.06	0.55
2:M:479:VAL:CG2	2:M:503:LEU:HD11	2.35	0.55
3:N:679:ARG:NH1	3:N:681:ARG:HD2	2.22	0.55
3:N:654:LYS:HD3	3:N:674:ARG:HH22	1.72	0.55
3:D:444:VAL:HG21	9:D:2119:HOH:O	2.06	0.55
5:P:271:LEU:HD11	5:P:307:THR:HB	1.88	0.55
1:A:193:ASP:HB2	9:A:371:HOH:O	2.07	0.55
3:N:1346:ARG:HB3	9:N:9264:HOH:O	2.06	0.55
3:D:969:ARG:O	3:D:972:LEU:HB3	2.07	0.55
2:M:750:LYS:HD2	9:M:2092:HOH:O	2.06	0.55
5:F:222:ARG:O	5:F:225:GLU:HG2	2.07	0.55
9:C:9650:HOH:O	4:E:31:LEU:HD21	2.07	0.55
3:D:33:ASN:HD22	3:D:33:ASN:C	2.09	0.55
3:D:1243:THR:HB	3:D:1253:THR:HG22	1.87	0.55
2:M:1000:MET:HB3	2:M:1002:GLU:HG3	1.88	0.55
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.72	0.55
5:F:247:ILE:O	5:F:251:ILE:HG13	2.07	0.55
2:C:776:SER:HA	2:C:780:GLU:HB3	1.89	0.55
2:M:1087:VAL:HG12	2:M:1091:GLU:OE1	2.06	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:88:ARG:NH1	1:K:90:LEU:HG	2.22	0.55
5:P:137:GLY:HA2	9:P:594:HOH:O	2.06	0.55
2:C:508:ILE:HG21	9:C:2036:HOH:O	2.07	0.55
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.87	0.55
3:N:631:ILE:HG23	3:N:743:ASP:O	2.06	0.55
3:N:1262:LEU:HD21	3:N:1351:GLU:HG3	1.88	0.55
2:M:383:ARG:HB2	2:M:383:ARG:NH1	2.22	0.55
2:M:31:GLN:HB2	9:M:1251:HOH:O	2.07	0.55
2:C:59:LYS:HA	9:C:9698:HOH:O	2.07	0.55
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.88	0.55
1:K:152:PRO:HD2	1:K:155:LYS:HG3	1.88	0.55
1:L:80:LEU:HB3	3:N:867:ARG:HH22	1.71	0.55
1:A:146:ARG:HD3	9:A:550:HOH:O	2.06	0.55
3:D:126:VAL:HG12	3:D:132:TYR:HB2	1.88	0.55
2:M:101:ILE:HG22	2:M:102:HIS:H	1.71	0.55
3:N:925:GLU:OE1	4:O:6:ILE:HG22	2.07	0.55
5:P:104:ARG:HD3	9:P:457:HOH:O	2.06	0.55
3:D:579:ASP:HB2	9:D:9640:HOH:O	2.06	0.55
2:M:269:LEU:HD11	9:M:1235:HOH:O	2.07	0.55
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.22	0.55
2:C:110:GLU:HG3	9:C:2308:HOH:O	2.07	0.55
2:C:150:PRO:CA	2:C:158:TYR:HB3	2.32	0.55
2:C:359:MET:HB2	9:C:9403:HOH:O	2.06	0.55
5:F:273:ARG:HD3	9:F:632:HOH:O	2.07	0.55
3:D:1141:GLU:HG2	3:D:1168:MET:CE	2.36	0.55
1:K:65:PHE:CE1	2:M:799:ILE:HD11	2.42	0.55
3:D:710:ARG:HD3	9:D:9920:HOH:O	2.06	0.55
2:M:707:ARG:NE	2:M:824:ARG:HG2	2.22	0.55
2:C:160:ALA:O	2:C:173:ASP:HA	2.07	0.55
1:K:50:GLY:O	1:K:146:ARG:HA	2.07	0.55
2:C:276:LYS:O	2:C:280:LYS:HB2	2.07	0.55
3:D:508:ARG:HG2	3:D:509:PRO:HD2	1.89	0.55
3:N:149:LYS:HG2	9:N:2323:HOH:O	2.06	0.55
3:D:404:GLU:HB3	3:D:414:ARG:CD	2.37	0.55
3:D:1059:SER:HB3	9:D:2673:HOH:O	2.06	0.55
4:O:26:ARG:O	4:O:29:GLN:HG3	2.07	0.55
1:A:79:ILE:HD11	9:C:9944:HOH:O	2.06	0.55
5:F:376:ILE:HG22	5:F:377:ASP:OD1	2.06	0.55
3:D:80:VAL:HG12	3:D:81:THR:O	2.06	0.55
2:C:194:VAL:HG21	2:C:221:LEU:O	2.07	0.55
3:N:12:LEU:HD23	3:N:13:ALA:H	1.72	0.55
2:C:360:LEU:HB2	9:C:2222:HOH:O	2.07	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:798:GLY:H	2:C:827:VAL:HG11	1.72	0.55
3:N:194:GLY:N	3:N:206:ARG:HA	2.17	0.55
3:D:1137:ARG:O	3:D:1141:GLU:HG3	2.06	0.55
2:C:1039:ALA:HA	3:D:710:ARG:HA	1.87	0.55
9:M:1280:HOH:O	5:P:345:ALA:HB1	2.07	0.55
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.87	0.55
3:D:190:GLU:HG3	3:D:210:ARG:NE	2.22	0.55
3:N:112:ILE:O	3:N:116:LEU:HB2	2.07	0.55
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.70	0.55
3:N:1118:ILE:HG21	3:N:1346:ARG:NH2	2.22	0.55
2:M:1014:SER:OG	2:M:1017:THR:HG23	2.06	0.55
1:B:61:VAL:HG11	1:B:75:VAL:HG21	1.89	0.55
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.07	0.55
3:N:809:PRO:O	3:N:812:ALA:HB3	2.07	0.55
3:N:464:LEU:HD11	9:N:9487:HOH:O	2.05	0.55
3:D:823:LEU:HD11	9:D:9442:HOH:O	2.06	0.55
3:N:1402:ALA:HA	9:N:2024:HOH:O	2.07	0.55
3:N:1246:VAL:HG23	9:N:2017:HOH:O	2.07	0.55
3:D:1116:ASN:HB3	9:D:9838:HOH:O	2.07	0.55
3:D:854:ALA:HB3	9:D:9585:HOH:O	2.06	0.55
3:N:191:LEU:HD11	9:N:9688:HOH:O	2.07	0.54
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.88	0.54
2:C:254:VAL:HG13	2:C:258:TYR:CE1	2.39	0.54
5:F:408:LEU:HD13	5:F:411:HIS:HE1	1.71	0.54
2:M:580:MET:HB3	2:M:584:GLU:OE1	2.06	0.54
2:C:41:ASN:H	2:C:41:ASN:ND2	2.05	0.54
4:E:26:ARG:HG2	4:E:67:GLU:OE1	2.07	0.54
3:N:1336:LEU:HD11	3:N:1341:PRO:HG3	1.89	0.54
2:C:237:ARG:HB3	9:C:2092:HOH:O	2.07	0.54
5:F:134:LYS:HE3	5:F:134:LYS:HA	1.89	0.54
2:M:516:ARG:HD2	3:N:1068:LEU:HD22	1.88	0.54
3:N:1004:THR:O	3:N:1007:VAL:HG22	2.08	0.54
3:N:584:ASN:HD21	3:N:590:PRO:HB2	1.73	0.54
2:M:115:LEU:HB3	9:M:1563:HOH:O	2.07	0.54
2:C:476:GLY:HA3	9:C:2018:HOH:O	2.06	0.54
3:N:1237:THR:HG23	9:N:2626:HOH:O	2.07	0.54
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.88	0.54
3:D:684:LYS:HB3	3:D:686:GLU:HG3	1.88	0.54
2:C:801:VAL:HG12	9:C:9536:HOH:O	2.07	0.54
2:C:208:ALA:HA	2:C:218:VAL:HG22	1.89	0.54
2:M:535:SER:O	2:M:538:GLN:HG2	2.07	0.54
2:M:129:ILE:HA	9:M:1586:HOH:O	2.06	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1005:MET:HE3	3:D:648:MET:HB2	1.88	0.54
3:N:1145:TYR:CE2	3:N:1168:MET:HB2	2.42	0.54
5:P:403:LYS:HZ1	5:P:406:ARG:HD2	1.72	0.54
3:D:207:PHE:CB	3:D:208:PRO:HD2	2.34	0.54
5:P:269:ASN:O	5:P:273:ARG:HG3	2.07	0.54
3:D:1493:LYS:HD2	9:D:9991:HOH:O	2.06	0.54
1:B:102:LYS:HG3	1:B:139:ASN:HB2	1.89	0.54
3:D:1087:ARG:HA	3:D:1090:ASP:HB2	1.89	0.54
3:D:1419:PRO:HG3	9:D:9624:HOH:O	2.06	0.54
1:B:185:ARG:HG3	1:B:190:THR:HG23	1.89	0.54
2:M:225:SER:HB2	9:M:1229:HOH:O	2.05	0.54
3:N:486:ARG:HA	3:N:489:ARG:HD3	1.88	0.54
5:F:344:ALA:HA	9:F:569:HOH:O	2.07	0.54
5:F:254:GLN:HA	9:F:652:HOH:O	2.06	0.54
1:A:66:SER:O	1:A:75:VAL:HG23	2.07	0.54
3:D:588:GLY:HA3	9:D:9281:HOH:O	2.06	0.54
2:M:197:LEU:HB3	2:M:202:TYR:HB2	1.89	0.54
3:N:540:LEU:HD12	3:N:543:LEU:HD11	1.89	0.54
1:A:191:ASP:O	1:A:192:LEU:HD23	2.08	0.54
5:F:361:LEU:HD21	5:F:404:ALA:HB1	1.89	0.54
2:M:135:VAL:HG21	9:M:1664:HOH:O	2.07	0.54
1:K:133:GLU:OE2	2:M:605:LYS:HB3	2.07	0.54
3:N:683:ILE:HG23	3:N:687:VAL:HG21	1.89	0.54
9:D:2160:HOH:O	4:E:61:GLU:HG3	2.07	0.54
3:D:1205:TYR:CD2	3:D:1215:VAL:HG21	2.43	0.54
2:C:536:PRO:HB3	2:C:906:PHE:HD1	1.72	0.54
1:L:123:MET:HG2	9:L:2070:HOH:O	2.06	0.54
3:N:1240:THR:O	3:N:1257:PRO:HB3	2.08	0.54
1:A:117:VAL:HG22	9:A:335:HOH:O	2.06	0.54
2:M:817:PRO:HB2	5:P:309:LYS:HZ1	1.73	0.54
2:M:409:ARG:NH1	2:M:444:PRO:HG3	2.23	0.54
5:P:87:GLU:HG3	9:P:720:HOH:O	2.06	0.54
5:F:185:GLN:HA	9:F:445:HOH:O	2.06	0.54
3:D:133:ILE:HG22	3:D:455:ARG:N	2.22	0.54
3:N:698:LYS:HD2	9:N:9171:HOH:O	2.06	0.54
1:L:156:HIS:CE1	1:L:166:PRO:HB3	2.43	0.54
3:N:1020:LEU:HA	3:N:1023:MET:CE	2.38	0.54
5:F:249:ARG:HH21	5:F:262:VAL:CG2	2.21	0.54
2:M:799:ILE:HD13	2:M:799:ILE:N	2.23	0.54
3:D:817:GLU:O	3:D:821:VAL:HG23	2.07	0.54
3:D:1236:LEU:HD12	3:D:1256:LEU:HD12	1.89	0.54
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.38	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:472:ARG:HD2	2:C:480:THR:O	2.07	0.54
1:L:154:GLU:OE2	3:N:840:LYS:HD2	2.07	0.54
1:B:8:ALA:HB3	9:B:351:HOH:O	2.06	0.54
2:C:470:PRO:HB3	2:C:485:TYR:CE1	2.43	0.54
3:D:164:GLY:HA2	9:D:9177:HOH:O	2.07	0.54
3:N:424:GLY:HA2	3:N:435:VAL:O	2.07	0.54
3:N:435:VAL:HG21	9:N:9419:HOH:O	2.07	0.54
3:N:956:ILE:HG12	3:N:1039:CYS:O	2.08	0.54
3:D:55:ASP:HA	3:D:82:LYS:HG3	1.90	0.54
2:C:260:LEU:HD12	9:C:9623:HOH:O	2.08	0.54
5:F:97:GLU:N	9:F:641:HOH:O	2.40	0.54
2:M:368:THR:HG22	9:M:1143:HOH:O	2.08	0.54
5:F:302:LYS:HG3	5:F:303:ARG:N	2.22	0.54
2:C:697:ARG:HG3	2:C:699:PHE:CD1	2.42	0.54
2:M:265:ARG:HG2	2:M:266:ARG:N	2.23	0.54
2:C:63:GLY:O	2:C:103:LYS:HE2	2.08	0.54
3:D:212:ARG:HB2	3:D:445:ARG:HH22	1.72	0.54
2:C:537:LYS:HD2	2:C:537:LYS:H	1.72	0.54
1:K:92:PRO:HD3	9:K:5415:HOH:O	2.06	0.54
2:M:838:LYS:HG2	9:M:1281:HOH:O	2.07	0.54
3:N:737:ASN:HA	9:N:2508:HOH:O	2.06	0.54
5:P:125:ASP:HB2	9:P:516:HOH:O	2.07	0.54
3:N:540:LEU:O	3:N:543:LEU:HG	2.07	0.54
3:D:559:ALA:O	5:F:132:ARG:NH2	2.38	0.54
2:C:407:LYS:HG2	9:C:9933:HOH:O	2.07	0.54
2:M:530:GLU:HG2	9:M:1593:HOH:O	2.07	0.54
2:C:815:LEU:HD21	2:C:820:ARG:O	2.08	0.54
3:N:538:SER:N	5:P:317:LEU:HD12	2.23	0.54
5:P:321:ILE:HB	5:P:327:SER:OG	2.08	0.54
3:D:153:LEU:HD12	3:D:154:THR:N	2.23	0.54
2:C:183:SER:HB2	2:C:190:LYS:CG	2.37	0.54
3:N:615:ARG:HB2	9:N:2415:HOH:O	2.06	0.54
1:A:50:GLY:O	1:A:146:ARG:HA	2.07	0.54
4:E:86:GLN:O	4:E:90:GLU:HG3	2.08	0.54
3:D:957:PRO:HG3	3:D:1007:VAL:HA	1.89	0.54
2:M:510:ALA:HB3	2:M:513:VAL:HG23	1.89	0.54
3:D:619:LEU:HB2	9:D:9918:HOH:O	2.06	0.54
3:N:1340:GLY:HA2	9:N:2126:HOH:O	2.07	0.54
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.89	0.54
3:D:423:ASP:HA	9:D:9719:HOH:O	2.07	0.54
2:M:208:ALA:HA	2:M:218:VAL:HG22	1.90	0.54
2:C:1087:VAL:HG22	2:C:1091:GLU:OE2	2.08	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.42	0.54
2:C:196:LEU:CD2	2:C:200:LEU:HD11	2.37	0.54
5:F:93:LEU:HD21	5:F:102:LEU:HD11	1.88	0.54
2:M:943:VAL:HG11	2:M:973:VAL:HG22	1.89	0.54
2:M:627:ARG:HG3	9:M:1580:HOH:O	2.08	0.54
2:C:839:LEU:HD12	2:C:994:ILE:HG21	1.89	0.54
2:M:163:ILE:HG13	2:M:163:ILE:O	2.08	0.54
1:A:86:VAL:HA	9:A:482:HOH:O	2.08	0.54
1:K:125:PRO:HD2	9:K:3406:HOH:O	2.06	0.54
4:E:48:MET:HB2	4:E:54:LEU:HD12	1.87	0.54
2:C:1008:ARG:HH22	2:C:1012:PRO:HD2	1.73	0.54
1:A:69:PRO:HD3	9:A:508:HOH:O	2.08	0.54
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.89	0.54
1:A:90:LEU:HB3	9:A:368:HOH:O	2.07	0.54
1:A:219:ARG:NH2	1:B:223:THR:HG22	2.23	0.54
2:M:102:HIS:HD2	2:M:104:ASP:HB2	1.73	0.54
3:N:1297:GLU:HA	9:N:9439:HOH:O	2.06	0.54
2:M:229:MET:HE3	9:M:1376:HOH:O	2.06	0.54
3:N:650:LEU:HD13	3:N:688:TRP:HZ3	1.72	0.54
3:D:647:ARG:NH1	3:D:650:LEU:HD23	2.23	0.54
5:P:229:TYR:HB3	9:P:557:HOH:O	2.08	0.54
1:B:147:GLY:HA3	9:B:625:HOH:O	2.06	0.54
2:C:580:MET:HB3	2:C:584:GLU:CD	2.28	0.54
2:C:124:ASP:CG	2:C:407:LYS:HZ1	2.11	0.54
2:C:665:PHE:HA	9:C:9558:HOH:O	2.08	0.54
3:N:833:GLU:HB2	9:N:2343:HOH:O	2.08	0.54
1:L:7:LYS:HG2	9:L:6833:HOH:O	2.07	0.54
2:M:682:TYR:N	9:M:1161:HOH:O	2.41	0.54
1:A:107:LYS:HB3	9:A:531:HOH:O	2.07	0.54
3:D:965:GLU:HG3	3:D:969:ARG:NH2	2.23	0.54
2:M:1103:ASP:HB3	2:M:1105:LYS:O	2.08	0.54
2:M:143:SER:HB3	2:M:330:ASN:O	2.07	0.54
3:D:880:ILE:O	3:D:883:ALA:HB3	2.08	0.54
1:A:137:ARG:HD3	9:A:518:HOH:O	2.08	0.54
1:K:189:ARG:HB3	9:K:2117:HOH:O	2.06	0.54
2:C:432:ARG:HH12	3:D:1047:LYS:CD	2.16	0.54
2:C:538:GLN:HB2	9:C:9427:HOH:O	2.08	0.54
3:D:434:ARG:HB2	3:D:447:VAL:HG22	1.90	0.54
9:M:1734:HOH:O	3:N:603:LEU:HB3	2.08	0.54
9:D:2706:HOH:O	5:F:94:LEU:HD11	2.08	0.54
3:N:42:ASP:O	3:N:46:ASP:HB2	2.08	0.54
2:M:150:PRO:CA	2:M:158:TYR:HB3	2.34	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1211:MET:HG3	3:D:1213:ARG:HG2	1.90	0.54
5:P:122:LEU:HD11	5:P:126:LEU:HD23	1.90	0.54
3:N:151:GLN:HA	9:N:9372:HOH:O	2.07	0.54
2:M:91:GLN:HA	2:M:119:PRO:HA	1.89	0.54
3:D:1304:LYS:HB3	9:D:9262:HOH:O	2.07	0.54
3:D:1278:ASP:HA	3:D:1319:VAL:O	2.07	0.54
1:A:39:PRO:O	1:A:43:ILE:HG12	2.08	0.54
3:D:2:LYS:HB2	9:D:2382:HOH:O	2.07	0.54
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.89	0.54
2:M:420:ARG:CZ	2:M:420:ARG:H	2.20	0.54
3:D:537:THR:C	5:F:317:LEU:HB2	2.28	0.54
2:M:260:LEU:HD13	2:M:291:ALA:HB1	1.89	0.54
2:C:435:TYR:C	2:C:437:ARG:H	2.11	0.54
2:C:704:HIS:CG	2:C:831:ARG:HE	2.26	0.54
2:M:178:PRO:HB2	9:M:1868:HOH:O	2.08	0.54
2:M:367:LEU:HB3	2:M:371:LYS:HG2	1.89	0.54
2:C:577:PRO:HD2	2:C:580:MET:SD	2.48	0.54
3:D:1168:MET:CE	3:D:1171:VAL:HB	2.37	0.54
2:M:525:SER:OG	2:M:528:GLU:HG3	2.08	0.54
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.23	0.54
5:F:314:PRO:HD2	9:F:541:HOH:O	2.07	0.54
3:D:208:PRO:HB2	3:D:395:VAL:HG13	1.89	0.54
3:N:639:LEU:HD12	3:N:640:HIS:H	1.73	0.54
2:M:701:THR:HG22	2:M:832:LYS:HA	1.90	0.54
9:N:9235:HOH:O	4:O:84:ARG:HG2	2.08	0.54
4:E:29:GLN:HB2	4:E:33:HIS:CD2	2.43	0.54
1:K:86:VAL:HG13	1:K:124:ASN:HB2	1.88	0.54
3:N:1362:LYS:HD2	9:N:9154:HOH:O	2.08	0.54
3:N:774:SER:HB3	3:N:1362:LYS:O	2.08	0.54
1:A:126:ASP:HB2	9:A:319:HOH:O	2.06	0.54
1:B:7:LYS:HD3	9:B:350:HOH:O	2.08	0.54
1:A:83:LYS:HD3	9:C:9911:HOH:O	2.08	0.54
1:B:125:PRO:HD2	9:B:330:HOH:O	2.06	0.54
2:M:863:ASP:OD2	2:M:865:THR:HG22	2.07	0.54
2:C:134:ARG:HB2	9:C:9111:HOH:O	2.08	0.54
3:D:407:VAL:HG11	9:D:9989:HOH:O	2.07	0.54
2:C:557:ARG:HA	2:C:560:MET:HG3	1.90	0.53
5:P:370:LYS:HB3	5:P:370:LYS:NZ	2.23	0.53
3:D:1478:SER:O	3:D:1482:ARG:HG3	2.08	0.53
4:E:10:PHE:HE2	4:E:16:LYS:HG3	1.73	0.53
3:D:786:ILE:HD13	3:D:908:LYS:HB3	1.89	0.53
1:K:143:ARG:HD2	1:K:145:ASP:OD1	2.07	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:101:LEU:HB2	1:L:114:PHE:CD2	2.42	0.53
2:C:1019:GLN:NE2	3:D:621:LYS:HG2	2.23	0.53
2:C:139:GLN:CD	2:C:415:PRO:HD3	2.28	0.53
1:K:9:PRO:HD3	9:K:7377:HOH:O	2.09	0.53
3:N:1439:SER:HB2	3:N:1440:PHE:CE2	2.43	0.53
1:A:23:PHE:CD1	1:A:211:LEU:HD23	2.43	0.53
3:N:534:ARG:HG3	9:P:700:HOH:O	2.07	0.53
2:M:370:ALA:HB1	9:P:652:HOH:O	2.07	0.53
3:D:102:ILE:HD12	3:D:579:ASP:HB3	1.90	0.53
3:D:1308:GLU:HG3	9:D:9479:HOH:O	2.07	0.53
2:M:57:GLU:OE1	2:M:63:GLY:HA2	2.09	0.53
5:P:201:LYS:HA	9:P:769:HOH:O	2.08	0.53
5:P:181:GLU:O	5:P:184:ARG:HB3	2.09	0.53
3:D:536:ALA:HB1	5:F:317:LEU:HG	1.90	0.53
2:C:771:GLU:HA	9:C:9832:HOH:O	2.07	0.53
3:D:213:VAL:HG22	3:D:214:GLU:N	2.23	0.53
2:C:579:VAL:HB	2:C:890:LEU:HD22	1.91	0.53
1:L:153:ALA:HA	1:L:156:HIS:NE2	2.23	0.53
3:N:1381:VAL:HG12	3:N:1389:LEU:HA	1.89	0.53
2:M:141:HIS:HB2	9:M:2114:HOH:O	2.08	0.53
3:D:147:VAL:HG11	9:D:9673:HOH:O	2.09	0.53
1:A:5:LYS:O	1:A:8:ALA:HB2	2.08	0.53
3:N:1186:VAL:HG12	9:N:9329:HOH:O	2.07	0.53
1:A:34:VAL:HG21	2:C:939:ARG:HD2	1.90	0.53
1:B:49:PRO:HA	9:B:484:HOH:O	2.07	0.53
3:D:1008:PHE:HD1	9:D:9273:HOH:O	1.91	0.53
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.89	0.53
3:D:1295:GLU:HB3	3:D:1300:SER:CB	2.38	0.53
2:C:617:ASP:HB2	9:C:2129:HOH:O	2.08	0.53
2:C:48:PHE:HD1	2:C:348:LEU:HD11	1.72	0.53
2:C:1059:ASP:OD2	2:C:1080:SER:N	2.41	0.53
2:M:300:ASP:HB2	9:M:1355:HOH:O	2.08	0.53
3:D:42:ASP:O	3:D:43:GLY:O	2.26	0.53
3:D:583:ASP:HA	3:D:602:SER:OG	2.08	0.53
3:D:493:ARG:HH12	3:D:1390:LEU:H	1.56	0.53
2:C:467:ILE:HG22	9:C:9653:HOH:O	2.09	0.53
5:P:156:VAL:HG21	9:P:654:HOH:O	2.07	0.53
3:N:836:VAL:HA	3:N:839:LEU:HB2	1.90	0.53
2:M:580:MET:HB3	2:M:584:GLU:CD	2.29	0.53
2:M:610:ARG:C	2:M:611:ILE:HD12	2.29	0.53
9:M:2111:HOH:O	3:N:1086:LEU:HD12	2.08	0.53
1:K:25:LEU:HD22	1:K:28:LEU:HD11	1.89	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:699:VAL:H	3:D:756:GLN:HE22	1.53	0.53
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.72	0.53
2:C:897:LEU:HB3	2:C:899:GLN:HE21	1.72	0.53
1:B:5:LYS:O	1:B:8:ALA:HB2	2.08	0.53
1:L:212:ASN:O	1:L:215:VAL:HG22	2.08	0.53
1:L:92:PRO:HB3	9:L:3281:HOH:O	2.07	0.53
4:O:7:ASP:HB2	9:O:1394:HOH:O	2.07	0.53
2:C:676:ILE:HG23	3:D:948:THR:HB	1.91	0.53
2:M:950:LEU:HB3	2:M:952:LEU:HD23	1.91	0.53
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.88	0.53
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.44	0.53
2:C:302:VAL:O	2:C:306:THR:HG23	2.09	0.53
2:C:611:ILE:HD12	2:C:625:LEU:HD21	1.89	0.53
2:M:466:PHE:HA	9:M:1427:HOH:O	2.08	0.53
1:A:49:PRO:O	1:A:173:PRO:HG2	2.08	0.53
1:A:2:LEU:HD23	9:A:444:HOH:O	2.08	0.53
3:D:1239:ARG:NH2	3:D:1254:GLN:H	2.04	0.53
2:C:1054:THR:HG22	2:C:1082:PRO:HG3	1.90	0.53
3:D:844:ALA:O	3:D:867:ARG:HB3	2.09	0.53
3:D:1380:GLU:HB2	9:D:9967:HOH:O	2.08	0.53
2:M:1038:TRP:HA	2:M:1041:GLU:HB2	1.90	0.53
3:D:1455:LYS:HD3	3:D:1456:LYS:N	2.22	0.53
2:C:1094:ALA:CB	3:D:603:LEU:HD22	2.38	0.53
1:A:26:GLU:HG3	1:A:194:LYS:HD3	1.91	0.53
3:D:148:GLU:HA	9:D:9225:HOH:O	2.08	0.53
2:C:516:ARG:HG3	3:D:1068:LEU:HD13	1.90	0.53
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.73	0.53
5:P:329:TYR:HA	5:P:332:PHE:CD2	2.43	0.53
2:C:1057:SER:N	9:C:9391:HOH:O	2.41	0.53
2:M:394:PHE:HB3	9:M:2270:HOH:O	2.07	0.53
2:M:71:TYR:HD2	2:M:71:TYR:H	1.53	0.53
3:D:1194:CYS:HB3	3:D:1373:ARG:NH2	2.24	0.53
3:N:1324:PRO:HA	9:N:9480:HOH:O	2.08	0.53
1:A:54:THR:HG22	1:A:158:ILE:HG13	1.89	0.53
1:L:182:GLU:HB3	9:N:9274:HOH:O	2.08	0.53
3:N:517:VAL:HG23	9:N:9412:HOH:O	2.09	0.53
2:C:976:ASP:HB2	2:C:979:THR:HG22	1.91	0.53
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.38	0.53
2:C:274:ARG:HD2	2:C:285:LEU:HD22	1.89	0.53
3:N:829:VAL:HG11	9:N:9969:HOH:O	2.07	0.53
1:A:191:ASP:HA	9:A:415:HOH:O	2.08	0.53
3:N:55:ASP:O	3:N:82:LYS:HA	2.09	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:699:VAL:H	3:N:756:GLN:HE22	1.56	0.53
3:N:18:ILE:HD13	3:N:21:TRP:HZ3	1.74	0.53
2:C:41:ASN:O	2:C:46:ALA:HB2	2.08	0.53
3:N:1264:GLU:OE1	3:N:1425:THR:HB	2.08	0.53
3:N:1122:LEU:O	3:N:1134:LEU:HG	2.07	0.53
3:D:706:PRO:HD2	9:D:2458:HOH:O	2.07	0.53
2:C:642:ARG:HB3	9:C:9549:HOH:O	2.08	0.53
3:D:1403:LEU:HD23	3:D:1407:LEU:HD22	1.90	0.53
3:D:587:ARG:HH21	5:F:74:LYS:N	2.06	0.53
3:N:1324:PRO:HG3	3:N:1330:ILE:HD11	1.90	0.53
1:B:180:GLN:HA	9:B:451:HOH:O	2.08	0.53
2:M:69:LEU:HD13	9:M:1301:HOH:O	2.09	0.53
2:C:9:ILE:O	2:C:9:ILE:HG13	2.09	0.53
2:M:351:LEU:HB2	9:M:1300:HOH:O	2.08	0.53
2:C:99:GLN:HB2	9:C:2009:HOH:O	2.09	0.53
3:N:434:ARG:HB2	3:N:447:VAL:CG1	2.38	0.53
2:C:682:TYR:N	9:C:9083:HOH:O	2.42	0.53
3:D:54:LYS:HD3	3:D:57:GLU:CD	2.29	0.53
3:D:95:LEU:HD21	3:D:547:LEU:HD11	1.91	0.53
5:F:327:SER:HA	9:F:494:HOH:O	2.09	0.53
2:M:857:ASP:HB2	2:M:978:ARG:CG	2.30	0.53
2:M:1018:GLN:HG2	9:M:1375:HOH:O	2.07	0.53
1:A:152:PRO:HB3	2:C:832:LYS:NZ	2.24	0.53
2:M:12:VAL:HG22	2:M:13:ILE:HG23	1.91	0.53
2:M:474:VAL:HG23	2:M:478:VAL:O	2.09	0.53
2:C:838:LYS:HB3	2:C:848:VAL:HG22	1.91	0.53
3:D:6:ARG:HD3	3:D:7:LYS:HZ3	1.74	0.53
3:D:1240:THR:O	3:D:1257:PRO:HB3	2.08	0.53
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.89	0.53
3:N:633:VAL:C	3:N:635:PRO:HD3	2.28	0.53
2:M:401:LEU:HD22	2:M:546:LEU:HD12	1.90	0.53
1:K:151:VAL:HB	1:K:169:ALA:HB3	1.91	0.53
3:D:1044:LEU:HD21	3:D:1056:PRO:HG3	1.91	0.53
2:M:519:GLY:HA3	9:M:1578:HOH:O	2.07	0.53
3:D:574:LEU:O	3:D:578:VAL:HG23	2.08	0.53
3:D:1148:VAL:HG13	3:D:1163:GLY:O	2.09	0.53
2:M:355:VAL:HG11	9:M:2137:HOH:O	2.09	0.53
5:F:228:GLU:HB3	5:F:231:ARG:HD2	1.91	0.53
2:C:240:THR:HG23	9:C:2111:HOH:O	2.08	0.53
5:P:195:VAL:HG11	5:P:217:ASN:OD1	2.09	0.53
3:N:423:ASP:OD1	5:P:174:LEU:HD13	2.08	0.53
3:D:62:LYS:HB3	3:D:63:TYR:CD1	2.44	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:186:VAL:HG13	3:N:187:LYS:N	2.24	0.53
3:D:214:GLU:OE2	3:D:390:PRO:HB2	2.09	0.53
3:N:783:ARG:CD	3:N:1029:ARG:HG2	2.35	0.53
5:P:414:ARG:HG2	9:P:634:HOH:O	2.08	0.53
9:C:2137:HOH:O	3:D:1068:LEU:HD21	2.09	0.53
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.36	0.53
3:N:679:ARG:HB2	3:N:682:ASP:OD2	2.08	0.53
2:M:859:PRO:O	2:M:867:VAL:HG22	2.07	0.53
4:O:90:GLU:HG2	9:O:1556:HOH:O	2.08	0.53
2:C:129:ILE:HG12	2:C:386:PHE:HB3	1.91	0.53
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.91	0.53
5:F:148:LYS:HE3	9:F:702:HOH:O	2.09	0.53
1:K:227:ASN:N	1:K:227:ASN:HD22	2.07	0.53
2:C:13:ILE:HB	9:C:9332:HOH:O	2.08	0.53
3:N:1496:GLU:HA	3:N:1499:ARG:HD2	1.89	0.53
2:M:520:GLU:O	2:M:522:VAL:HG23	2.09	0.53
3:N:799:LYS:H	3:N:826:PRO:HG2	1.73	0.53
2:C:953:VAL:HG13	2:C:966:LEU:HD13	1.89	0.53
3:D:850:LEU:HD12	3:D:851:LEU:HD23	1.91	0.53
3:N:181:ASP:O	3:N:185:VAL:HG23	2.09	0.53
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ1	1.74	0.53
2:M:264:PRO:HB3	2:M:289:THR:HB	1.91	0.53
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.44	0.53
1:A:189:ARG:HH12	1:B:155:LYS:HE3	1.73	0.53
2:M:358:ARG:HH22	2:M:374:ASN:HB3	1.74	0.53
2:C:137:VAL:O	2:C:391:LEU:HD21	2.08	0.53
4:O:48:MET:HB2	4:O:54:LEU:HB2	1.91	0.53
3:N:549:ASN:OD1	5:P:254:GLN:HB3	2.09	0.53
3:N:1047:LYS:HG2	3:N:1053:PHE:CZ	2.43	0.53
2:C:522:VAL:HG21	9:C:9199:HOH:O	2.08	0.53
2:C:115:LEU:HD22	2:C:373:VAL:HG11	1.90	0.53
3:N:135:LEU:CD1	3:N:147:VAL:HG23	2.39	0.53
3:D:776:GLU:HB3	3:D:912:LYS:HE2	1.91	0.53
3:N:767:HIS:CE1	4:O:6:ILE:HG21	2.44	0.53
2:M:167:LYS:HD3	2:M:168:ARG:HD2	1.91	0.53
2:M:20:GLU:HA	9:M:1925:HOH:O	2.08	0.53
9:C:9471:HOH:O	3:D:681:ARG:HG2	2.09	0.53
2:C:945:ARG:HG2	2:C:946:ARG:N	2.24	0.53
2:M:148:PHE:CZ	2:M:309:TYR:HB3	2.44	0.53
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.38	0.53
5:P:397:ILE:O	5:P:401:GLU:HB3	2.09	0.53
5:P:401:GLU:O	5:P:405:LEU:HB2	2.09	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:47:GLU:OE1	3:N:53:ILE:HG22	2.08	0.53
3:D:178:LEU:HD11	9:D:2152:HOH:O	2.08	0.53
2:M:984:GLU:HG3	3:N:944:THR:O	2.09	0.53
2:M:861:LEU:HD21	2:M:925:TYR:CE2	2.44	0.53
2:C:839:LEU:HD21	2:C:849:VAL:HG22	1.90	0.53
3:D:1331:ASP:HB2	9:D:2058:HOH:O	2.08	0.53
3:N:1272:ALA:CA	3:N:1326:THR:HB	2.38	0.53
2:C:129:ILE:HD11	2:C:386:PHE:HD2	1.74	0.53
5:P:150:THR:HG23	9:P:752:HOH:O	2.09	0.53
3:N:135:LEU:HA	3:N:453:ASP:O	2.09	0.53
1:A:140:MET:SD	1:A:142:VAL:HG12	2.49	0.53
1:L:220:GLU:HB3	9:L:2385:HOH:O	2.07	0.53
3:N:101:HIS:ND1	3:N:103:TRP:HB2	2.24	0.53
5:F:420:ASP:O	5:F:422:LEU:HD23	2.09	0.53
2:C:535:SER:O	2:C:538:GLN:HG2	2.08	0.52
3:D:60:CYS:N	9:D:9193:HOH:O	2.42	0.52
3:D:183:GLU:HA	3:D:186:VAL:HG12	1.90	0.52
3:D:566:ILE:HG23	5:F:214:GLN:OE1	2.09	0.52
5:F:361:LEU:HD23	5:F:362:SER:N	2.23	0.52
3:D:970:LYS:O	3:D:974:ILE:HG13	2.08	0.52
2:M:431:HIS:HA	9:M:1910:HOH:O	2.09	0.52
3:D:631:ILE:HG12	3:D:743:ASP:O	2.09	0.52
1:B:143:ARG:HD2	1:B:158:ILE:HG21	1.91	0.52
2:C:413:LEU:HD12	2:C:413:LEU:N	2.23	0.52
1:A:178:ALA:HB2	2:C:864:GLY:H	1.75	0.52
1:B:191:ASP:O	1:B:192:LEU:HG	2.08	0.52
4:E:45:ARG:O	4:E:47:LYS:HE3	2.09	0.52
2:C:1008:ARG:HE	2:C:1028:GLY:C	2.12	0.52
3:N:591:VAL:CG1	3:N:597:ASP:HA	2.39	0.52
3:N:583:ASP:OD2	3:N:604:THR:HG21	2.08	0.52
1:L:67:THR:HG22	9:L:1762:HOH:O	2.08	0.52
1:L:79:ILE:HA	1:L:82:LEU:HD12	1.90	0.52
3:N:1312:LEU:HB3	9:N:9173:HOH:O	2.09	0.52
2:M:84:ARG:NH2	2:M:128:ILE:HG12	2.24	0.52
3:N:625:TYR:O	3:N:749:VAL:HG23	2.08	0.52
1:L:102:LYS:HD2	1:L:139:ASN:ND2	2.24	0.52
2:M:405:ARG:HH11	2:M:442:GLU:HG2	1.74	0.52
2:M:305:PRO:HA	2:M:308:ARG:HB2	1.92	0.52
2:C:264:PRO:HB2	9:C:9113:HOH:O	2.08	0.52
3:N:820:GLU:HB2	3:N:836:VAL:HG11	1.90	0.52
1:A:186:LEU:HB3	9:A:343:HOH:O	2.09	0.52
3:D:907:GLU:HA	9:D:9142:HOH:O	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:119:SER:N	3:N:123:LEU:HD13	2.24	0.52
1:B:110:LYS:HG2	9:B:464:HOH:O	2.09	0.52
2:M:109:LYS:HB2	9:M:2109:HOH:O	2.08	0.52
3:N:470:LEU:HG	3:N:508:ARG:NH2	2.25	0.52
2:C:146:VAL:HG13	2:C:161:SER:O	2.09	0.52
1:K:20:TYR:CD2	1:K:21:GLY:N	2.77	0.52
1:A:219:ARG:HH22	1:B:223:THR:CG2	2.22	0.52
3:N:533:GLY:HA3	5:P:309:LYS:HD2	1.90	0.52
3:N:1415:VAL:HG22	9:N:2024:HOH:O	2.09	0.52
1:L:102:LYS:HB2	1:L:139:ASN:OD1	2.09	0.52
1:A:115:LEU:HB2	9:A:400:HOH:O	2.10	0.52
2:C:739:GLU:HG3	9:C:9293:HOH:O	2.07	0.52
2:M:514:VAL:HG22	9:M:1440:HOH:O	2.09	0.52
5:F:413:SER:HA	5:F:416:ARG:CZ	2.38	0.52
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.91	0.52
2:C:679:PHE:C	3:D:943:THR:HG22	2.30	0.52
3:D:18:ILE:HD12	3:D:518:PRO:CG	2.39	0.52
5:F:321:ILE:HG22	5:F:322:GLY:N	2.24	0.52
3:N:28:LYS:O	3:N:43:GLY:HA2	2.10	0.52
2:M:174:LEU:HB3	2:M:193:LEU:HD21	1.92	0.52
2:C:135:VAL:O	2:C:392:SER:HA	2.10	0.52
2:C:339:LEU:HD22	2:C:391:LEU:HD22	1.91	0.52
3:D:659:LYS:HD3	3:D:659:LYS:O	2.09	0.52
2:M:939:ARG:HB3	2:M:982:PRO:HG3	1.91	0.52
2:M:455:LEU:HG	2:M:459:ALA:HB3	1.91	0.52
2:M:83:CYS:HA	2:M:88:LEU:HD23	1.91	0.52
5:P:322:GLY:HA3	9:P:573:HOH:O	2.09	0.52
3:N:1273:VAL:O	3:N:1325:LEU:HB2	2.10	0.52
2:C:599:GLU:HG2	9:C:9491:HOH:O	2.10	0.52
1:L:75:VAL:HA	1:L:78:ILE:HD12	1.92	0.52
2:M:654:LEU:HD12	2:M:657:ASP:OD2	2.09	0.52
2:C:447:ALA:HB2	9:D:2205:HOH:O	2.10	0.52
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.91	0.52
3:N:553:ARG:HD3	5:P:214:GLN:HB3	1.91	0.52
1:B:38:ASN:OD1	2:C:979:THR:HA	2.09	0.52
3:D:603:LEU:HA	3:D:606:ILE:HG13	1.90	0.52
3:D:62:LYS:HD3	9:D:2486:HOH:O	2.08	0.52
2:C:101:ILE:HG22	2:C:102:HIS:N	2.24	0.52
3:N:40:GLU:HG3	3:N:41:ARG:N	2.25	0.52
4:O:48:MET:HB2	4:O:54:LEU:CD1	2.39	0.52
2:M:625:LEU:HB3	2:M:639:GLN:HG3	1.90	0.52
2:M:966:LEU:HD21	2:M:986:PRO:CG	2.39	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:244:PRO:CD	2:C:245:GLY:H	2.21	0.52
5:F:220:LEU:O	5:F:224:VAL:HG23	2.08	0.52
3:D:36:THR:C	3:D:38:LYS:H	2.13	0.52
1:A:57:TYR:CE2	1:A:161:ARG:HD2	2.45	0.52
2:C:387:SER:OG	2:C:388:ARG:HD3	2.09	0.52
3:D:1124:GLN:HG2	9:D:2004:HOH:O	2.09	0.52
2:M:35:PRO:HD2	2:M:38:LYS:HG2	1.92	0.52
2:C:640:ARG:HG3	9:C:9864:HOH:O	2.10	0.52
3:N:1087:ARG:HA	3:N:1090:ASP:HB2	1.92	0.52
4:O:72:ARG:HA	9:O:4488:HOH:O	2.09	0.52
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.38	0.52
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.90	0.52
1:A:156:HIS:CD2	1:A:158:ILE:HG12	2.45	0.52
2:C:165:LEU:HD12	2:C:166:PRO:HA	1.91	0.52
2:M:946:ARG:NH2	3:N:859:ASP:HB3	2.25	0.52
3:N:669:ASN:O	3:N:672:ALA:HB3	2.09	0.52
2:C:473:ARG:HH11	2:C:475:VAL:CG2	2.23	0.52
2:C:5:ARG:HB2	9:C:9522:HOH:O	2.09	0.52
2:M:502:PRO:HB2	2:M:509:ALA:HB3	1.90	0.52
2:M:424:GLY:O	2:M:427:VAL:HG23	2.09	0.52
2:M:1072:LYS:HB2	9:M:2094:HOH:O	2.10	0.52
5:F:175:HIS:O	5:F:179:GLU:HG2	2.09	0.52
5:F:186:HIS:HB3	9:F:444:HOH:O	2.08	0.52
3:D:435:VAL:HG22	3:D:446:VAL:HG13	1.92	0.52
3:N:185:VAL:CG1	3:N:191:LEU:HD21	2.40	0.52
3:N:422:ALA:H	3:N:427:VAL:CG1	2.18	0.52
3:D:521:PRO:C	3:D:525:ARG:HH11	2.13	0.52
2:C:274:ARG:CD	2:C:285:LEU:HD22	2.40	0.52
2:M:759:THR:HA	2:M:786:LYS:O	2.09	0.52
3:N:49:ILE:HB	3:N:50:PHE:CE1	2.45	0.52
2:C:949:LYS:HD3	3:D:828:LYS:HE3	1.90	0.52
5:F:291:ILE:O	5:F:295:MET:HB2	2.09	0.52
3:D:1129:THR:HG23	3:D:1130:ARG:N	2.20	0.52
2:C:452:ILE:HG13	9:C:9147:HOH:O	2.09	0.52
5:F:142:ARG:HD2	9:F:540:HOH:O	2.09	0.52
3:N:1101:VAL:HG11	3:N:1424:VAL:HG22	1.90	0.52
3:D:159:ARG:HB2	3:D:159:ARG:CZ	2.39	0.52
3:D:1267:ARG:HB2	3:D:1267:ARG:HH11	1.74	0.52
1:A:71:VAL:HG22	9:A:468:HOH:O	2.09	0.52
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.40	0.52
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.39	0.52
1:L:74:ASP:OD2	1:L:76:VAL:HG23	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1503:VAL:HG21	9:D:2589:HOH:O	2.08	0.52
2:M:53:PRO:HD3	9:M:1140:HOH:O	2.10	0.52
3:D:669:ASN:O	3:D:672:ALA:HB3	2.09	0.52
5:P:119:ILE:HD11	9:P:794:HOH:O	2.09	0.52
1:K:186:LEU:HB2	1:K:192:LEU:CD1	2.34	0.52
2:M:721:ARG:O	2:M:758:ARG:HA	2.10	0.52
2:C:464:LEU:HD12	2:C:465:GLY:H	1.74	0.52
3:D:455:ARG:HG2	9:D:2383:HOH:O	2.09	0.52
3:D:564:GLU:OE1	3:D:567:ILE:HD12	2.08	0.52
2:C:630:ARG:HH22	2:C:707:ARG:CB	2.23	0.52
3:D:1209:LEU:HD21	4:E:16:LYS:HZ3	1.70	0.52
5:F:366:ALA:HB3	5:F:367:MET:CE	2.39	0.52
2:C:625:LEU:CD1	2:C:641:PRO:HG3	2.40	0.52
2:M:140:ILE:HD11	9:M:1329:HOH:O	2.09	0.52
3:N:129:PHE:C	3:N:568:ARG:HH21	2.12	0.52
3:N:679:ARG:NH2	3:N:681:ARG:HE	2.07	0.52
3:D:728:LEU:HD22	3:D:745:MET:SD	2.49	0.52
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.10	0.52
1:B:101:LEU:HG	1:B:114:PHE:HA	1.91	0.52
3:D:502:PHE:HZ	3:D:512:MET:HE2	1.75	0.52
3:D:686:GLU:HA	9:D:9222:HOH:O	2.09	0.52
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.91	0.52
3:D:814:ALA:O	3:D:818:ARG:HG3	2.10	0.52
3:N:964:LEU:CD1	3:N:1058:ARG:HD2	2.39	0.52
5:P:171:LYS:HE3	5:P:175:HIS:CE1	2.45	0.52
3:D:939:PHE:O	3:D:943:THR:HG23	2.10	0.52
3:D:12:LEU:HB2	9:D:9480:HOH:O	2.09	0.52
3:D:81:THR:HG22	3:D:82:LYS:H	1.75	0.52
3:D:97:THR:HB	9:D:9846:HOH:O	2.09	0.52
3:D:141:ILE:CD1	3:D:450:TYR:HB2	2.32	0.52
2:C:418:LEU:N	2:C:418:LEU:HD12	2.24	0.52
2:C:516:ARG:NE	3:D:1068:LEU:HD13	2.24	0.52
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.91	0.52
3:N:105:VAL:HG13	3:N:124:GLU:OE1	2.08	0.52
3:D:556:LYS:HE2	9:F:624:HOH:O	2.08	0.52
3:N:1344:VAL:HG11	3:N:1421:LEU:HD22	1.91	0.52
3:D:212:ARG:HD3	3:D:445:ARG:NH1	2.24	0.52
2:M:1017:THR:HG1	2:M:1019:GLN:HG2	1.75	0.52
1:L:206:THR:HG22	1:L:209:GLU:H	1.75	0.52
3:D:1000:THR:O	3:D:1003:VAL:HG22	2.10	0.52
3:D:1330:ILE:HG21	3:D:1335:LEU:HD12	1.91	0.52
3:D:647:ARG:HD3	3:D:647:ARG:O	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:964:LEU:HD11	3:N:1058:ARG:HD2	1.91	0.52
5:P:167:PRO:HB2	5:P:169:GLU:OE2	2.10	0.52
1:L:227:ASN:HB3	9:L:4722:HOH:O	2.08	0.52
2:M:776:SER:HA	2:M:780:GLU:HB3	1.92	0.52
1:K:170:VAL:HG11	9:K:2028:HOH:O	2.09	0.52
1:B:131:THR:HG21	9:B:512:HOH:O	2.10	0.52
2:C:220:GLY:HA3	9:C:9124:HOH:O	2.10	0.52
3:N:412:GLY:O	3:N:421:LEU:HB3	2.10	0.52
2:C:1091:GLU:O	2:C:1094:ALA:HB3	2.09	0.52
2:C:135:VAL:HG13	9:C:9933:HOH:O	2.09	0.52
2:M:544:THR:O	2:M:547:ILE:HG13	2.10	0.52
3:D:1068:LEU:HD22	3:D:1072:ILE:HG12	1.91	0.52
2:M:139:GLN:NE2	2:M:334:ARG:HH11	2.08	0.52
2:C:1042:ALA:CB	3:D:710:ARG:HB3	2.37	0.52
3:N:1112:CYS:HA	9:N:9516:HOH:O	2.10	0.52
3:N:470:LEU:HB2	3:N:503:LEU:HD11	1.92	0.52
3:D:156:GLU:CD	3:D:156:GLU:H	2.13	0.52
3:N:1243:THR:HG22	3:N:1244:GLY:H	1.73	0.52
1:K:57:TYR:HE2	1:K:59:GLU:HG2	1.74	0.52
5:P:129:GLU:HB3	5:P:142:ARG:HH21	1.75	0.52
2:M:841:ASN:HD21	2:M:845:ASN:N	2.06	0.52
3:N:1059:SER:HB3	9:N:9228:HOH:O	2.08	0.52
5:P:104:ARG:O	5:P:108:GLU:HG2	2.10	0.52
2:C:49:ARG:HD3	9:C:9193:HOH:O	2.10	0.52
4:E:87:LYS:HE3	9:E:143:HOH:O	2.08	0.52
5:P:261:PRO:HA	9:P:507:HOH:O	2.10	0.52
2:M:881:ASN:H	2:M:881:ASN:HD22	1.57	0.52
3:D:1356:TYR:CD2	3:D:1363:LEU:HD23	2.45	0.52
4:E:17:TYR:HD2	4:E:17:TYR:N	2.08	0.52
5:F:253:ASP:HA	5:F:259:ARG:NH1	2.23	0.52
3:N:965:GLU:O	3:N:968:ASP:HB2	2.10	0.52
3:N:1152:GLU:HG2	3:N:1160:LEU:O	2.10	0.52
2:C:40:GLU:HA	9:C:9794:HOH:O	2.09	0.52
1:A:111:ALA:HB2	1:A:127:LEU:HG	1.91	0.52
1:L:109:VAL:HG23	9:L:2421:HOH:O	2.09	0.52
3:N:434:ARG:HB2	3:N:447:VAL:HG22	1.91	0.52
1:A:63:HIS:HB3	2:C:746:GLY:CA	2.31	0.52
3:D:827:ILE:O	3:D:837:GLY:HA3	2.10	0.52
3:D:793:THR:HB	3:D:879:ARG:HD3	1.91	0.52
3:N:474:GLU:O	3:N:478:LEU:HG	2.10	0.52
5:P:344:ALA:HB3	9:P:447:HOH:O	2.09	0.52
3:D:704:ARG:CD	3:D:705:ALA:H	2.23	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:E:61:GLU:O	4:E:65:MET:HG3	2.10	0.52
1:B:52:ALA:HB2	1:B:170:VAL:O	2.10	0.52
1:A:69:PRO:O	1:A:71:VAL:HG23	2.10	0.52
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.10	0.52
3:D:720:LEU:H	3:D:720:LEU:HD12	1.73	0.52
2:C:97:ARG:HD2	9:C:2261:HOH:O	2.10	0.52
5:P:261:PRO:O	5:P:265:VAL:HG23	2.09	0.52
3:D:916:TYR:HE2	3:D:920:LEU:HD13	1.74	0.52
3:N:1410:GLU:HA	9:N:9270:HOH:O	2.10	0.52
8:N:9002:TGT:H3	9:N:9224:HOH:O	2.10	0.52
3:N:550:ARG:CD	3:N:573:MET:HB3	2.41	0.52
3:D:493:ARG:HD3	3:D:493:ARG:O	2.09	0.52
2:M:762:LYS:HD3	2:M:771:GLU:OE2	2.10	0.52
2:M:333:ILE:HG12	2:M:467:ILE:HD11	1.92	0.52
2:M:274:ARG:CD	2:M:285:LEU:HD22	2.38	0.52
3:N:1314:LYS:NZ	3:N:1317:ASP:HB2	2.25	0.52
3:N:1242:HIS:HB2	9:N:9670:HOH:O	2.10	0.52
3:N:1147:ARG:HD2	9:N:9121:HOH:O	2.10	0.52
3:N:1149:LEU:HD22	9:N:9329:HOH:O	2.10	0.52
2:C:601:GLY:O	2:C:648:ARG:HA	2.10	0.52
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.74	0.52
3:D:729:HIS:CE1	3:D:731:LEU:H	2.28	0.52
2:C:267:TYR:HB2	2:C:272:ALA:HB1	1.92	0.52
2:M:278:GLU:HB2	9:M:2032:HOH:O	2.10	0.52
1:A:101:LEU:HG	1:A:114:PHE:HA	1.91	0.52
3:D:1441:GLN:HE21	3:D:1442:ASN:HB2	1.73	0.52
3:D:576:GLU:HA	3:D:579:ASP:OD2	2.10	0.52
2:M:3:ILE:CD1	2:M:900:ARG:HB2	2.40	0.52
3:N:126:VAL:HG12	3:N:132:TYR:HB2	1.92	0.52
2:M:213:ALA:HB3	9:M:1191:HOH:O	2.11	0.52
1:L:46:SER:O	1:L:148:VAL:HB	2.10	0.52
5:P:132:ARG:HD3	5:P:181:GLU:OE1	2.11	0.51
9:N:9476:HOH:O	5:P:87:GLU:HA	2.11	0.51
2:C:274:ARG:HG3	2:C:285:LEU:HD22	1.92	0.51
3:D:192:ALA:O	3:D:195:VAL:HG23	2.09	0.51
3:D:390:PRO:HD3	9:D:9423:HOH:O	2.10	0.51
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.24	0.51
2:M:172:ILE:HD12	2:M:172:ILE:H	1.76	0.51
2:C:580:MET:HB3	2:C:584:GLU:OE2	2.10	0.51
2:M:905:ILE:HD12	2:M:905:ILE:H	1.75	0.51
3:N:1111:ASP:HB2	3:N:1203:LYS:CD	2.39	0.51
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.45	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:1099:VAL:HG23	9:M:1567:HOH:O	2.10	0.51
3:N:36:THR:C	3:N:38:LYS:H	2.13	0.51
3:N:1304:LYS:HB3	9:N:9576:HOH:O	2.09	0.51
3:D:1033:GLN:HE21	3:D:1036:ARG:NH1	2.08	0.51
2:M:816:LYS:HA	9:M:1688:HOH:O	2.10	0.51
5:F:74:LYS:HD3	9:F:802:HOH:O	2.09	0.51
5:P:123:ASP:HB3	5:P:125:ASP:OD1	2.10	0.51
2:C:1101:THR:HB	3:D:5:VAL:HG13	1.92	0.51
5:F:347:GLN:O	5:F:351:SER:HB2	2.10	0.51
2:C:73:LEU:O	2:C:73:LEU:HD12	2.10	0.51
3:N:202:VAL:O	3:N:204:LEU:HG	2.11	0.51
3:D:20:SER:HB3	9:D:9745:HOH:O	2.10	0.51
2:C:285:LEU:HD23	2:C:285:LEU:O	2.10	0.51
2:C:332:ARG:HA	2:C:465:GLY:O	2.10	0.51
3:N:478:LEU:HD21	3:N:500:ARG:NH2	2.23	0.51
2:M:406:HIS:HB3	9:M:1664:HOH:O	2.11	0.51
2:M:326:ASP:HB2	2:M:431:HIS:CE1	2.46	0.51
3:D:1491:THR:HG23	9:E:141:HOH:O	2.09	0.51
3:N:1311:LEU:HD12	3:N:1313:VAL:O	2.09	0.51
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.10	0.51
3:N:1425:THR:HG23	3:N:1426:LYS:N	2.25	0.51
2:C:25:SER:OG	2:C:337:GLY:N	2.42	0.51
4:O:84:ARG:HB2	4:O:84:ARG:NH1	2.26	0.51
3:N:864:VAL:HG22	3:N:877:PRO:HD3	1.92	0.51
2:C:172:ILE:HA	2:C:185:LYS:O	2.09	0.51
3:D:212:ARG:HD3	3:D:445:ARG:HH12	1.74	0.51
3:D:783:ARG:HH21	8:D:9001:TGT:C2	2.23	0.51
3:D:1241:PHE:HD2	3:D:1260:ILE:HG21	1.75	0.51
2:M:1000:MET:O	2:M:1003:ASP:HB3	2.10	0.51
3:D:1106:VAL:O	3:D:1108:ARG:HG2	2.10	0.51
3:D:616:GLN:HB2	9:D:2053:HOH:O	2.11	0.51
1:L:132:LEU:HG	1:L:136:GLY:HA3	1.92	0.51
3:D:369:ALA:HB2	9:D:2012:HOH:O	2.10	0.51
1:L:13:VAL:HG13	1:L:23:PHE:CD1	2.45	0.51
1:B:100:LEU:HB2	1:B:115:LEU:CD2	2.40	0.51
3:N:154:THR:HG23	3:N:157:GLU:H	1.74	0.51
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.93	0.51
3:N:50:PHE:O	3:N:89:ARG:HD2	2.11	0.51
2:C:670:GLN:O	2:C:672:VAL:HG12	2.10	0.51
4:O:48:MET:HB2	4:O:54:LEU:HD12	1.92	0.51
2:C:902:ILE:O	2:C:904:PRO:HD3	2.10	0.51
1:L:176:ARG:CZ	3:N:884:ARG:NH1	2.71	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1109:GLU:CG	3:D:1202:GLN:H	2.24	0.51
3:N:1118:ILE:HG23	3:N:1346:ARG:HH12	1.74	0.51
5:P:82:ARG:HG2	5:P:86:HIS:CD2	2.44	0.51
3:D:647:ARG:HD2	9:D:9788:HOH:O	2.10	0.51
1:A:80:LEU:HA	1:A:83:LYS:HD2	1.91	0.51
3:D:1249:ALA:HB3	9:D:9801:HOH:O	2.10	0.51
2:M:103:LYS:NZ	2:M:103:LYS:HA	2.24	0.51
1:L:133:GLU:HB3	9:L:3618:HOH:O	2.09	0.51
3:N:1278:ASP:HA	3:N:1319:VAL:O	2.11	0.51
3:N:758:GLU:HB3	4:O:20:THR:HG21	1.93	0.51
3:D:816:HIS:HA	9:D:9279:HOH:O	2.10	0.51
3:D:432:TYR:HB3	3:D:448:GLU:HA	1.91	0.51
2:M:614:ARG:HD3	9:M:2050:HOH:O	2.10	0.51
2:M:28:ARG:HG3	2:M:40:GLU:OE1	2.11	0.51
2:C:459:ALA:HA	9:C:2046:HOH:O	2.09	0.51
2:M:211:LEU:HG	2:M:308:ARG:HG3	1.91	0.51
2:C:630:ARG:HE	2:C:705:ILE:CG2	2.23	0.51
4:O:25:LYS:HG3	9:O:1782:HOH:O	2.10	0.51
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.35	0.51
2:C:670:GLN:HE22	2:C:699:PHE:CB	2.24	0.51
2:C:136:ILE:CD1	2:C:392:SER:HB2	2.41	0.51
2:M:549:PHE:HE1	2:M:909:ALA:HB3	1.75	0.51
2:C:539:VAL:HG21	3:D:1067:VAL:CG1	2.40	0.51
4:O:54:LEU:HG	4:O:58:PRO:HD2	1.91	0.51
2:M:611:ILE:HD13	2:M:625:LEU:HD11	1.92	0.51
3:N:1462:LEU:HD22	3:N:1473:PRO:HD2	1.92	0.51
1:A:9:PRO:HB3	1:A:25:LEU:HG	1.92	0.51
2:C:380:ALA:HA	2:C:383:ARG:CD	2.40	0.51
3:N:1281:VAL:HG23	3:N:1317:ASP:O	2.10	0.51
3:N:1495:ILE:HG23	9:N:9235:HOH:O	2.09	0.51
5:F:399:GLN:O	5:F:403:LYS:HB2	2.11	0.51
3:D:833:GLU:HG2	9:D:9511:HOH:O	2.10	0.51
2:C:841:ASN:HD21	2:C:845:ASN:N	2.07	0.51
3:D:1403:LEU:O	3:D:1407:LEU:HB2	2.10	0.51
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.10	0.51
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.25	0.51
1:L:136:GLY:HA3	9:L:4499:HOH:O	2.10	0.51
2:M:201:GLY:HA2	9:M:2103:HOH:O	2.09	0.51
5:F:357:ALA:HA	9:F:583:HOH:O	2.10	0.51
2:M:1074:GLU:HA	9:M:1982:HOH:O	2.09	0.51
2:M:9:ILE:HG12	2:M:907:ASP:OD2	2.10	0.51
2:C:379:GLU:HG3	9:C:9405:HOH:O	2.11	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:732:ALA:HA	2:M:735:ARG:CZ	2.41	0.51
3:D:526:PRO:O	3:D:537:THR:HA	2.11	0.51
2:C:737:LEU:HD22	2:C:741:GLY:O	2.10	0.51
2:M:1096:ALA:C	3:N:13:ALA:HB2	2.30	0.51
2:C:333:ILE:HD12	2:C:333:ILE:N	2.25	0.51
2:C:504:GLU:HG3	9:C:9043:HOH:O	2.10	0.51
1:A:184:THR:HB	1:A:194:LYS:CE	2.40	0.51
3:N:53:ILE:HG23	3:N:54:LYS:N	2.24	0.51
2:M:313:LEU:HD13	2:M:321:GLU:CB	2.40	0.51
1:L:98:THR:HG22	9:L:3535:HOH:O	2.11	0.51
2:M:537:LYS:HD2	9:M:1233:HOH:O	2.10	0.51
2:M:136:ILE:HG21	2:M:336:VAL:HG13	1.92	0.51
2:C:1007:ALA:HB2	3:D:648:MET:HG3	1.91	0.51
1:L:30:ARG:NH2	2:M:854:PRO:HG3	2.26	0.51
2:C:943:VAL:HG11	2:C:973:VAL:HG22	1.93	0.51
3:N:684:LYS:HE2	3:N:686:GLU:OE1	2.10	0.51
2:C:1106:ASP:HA	9:C:9127:HOH:O	2.11	0.51
2:C:172:ILE:HD12	2:C:172:ILE:N	2.24	0.51
2:C:183:SER:HB2	2:C:190:LYS:CD	2.41	0.51
4:O:35:PHE:HZ	4:O:60:ALA:HA	1.75	0.51
1:L:206:THR:CG2	1:L:209:GLU:H	2.24	0.51
3:N:1282:ARG:HD3	3:N:1295:GLU:OE2	2.11	0.51
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.45	0.51
2:M:209:ARG:HB3	9:M:1448:HOH:O	2.10	0.51
2:M:732:ALA:HA	2:M:735:ARG:NH1	2.26	0.51
5:F:392:VAL:HG13	9:F:551:HOH:O	2.11	0.51
3:D:243:ALA:HB2	9:D:2459:HOH:O	2.10	0.51
3:N:209:ARG:NH1	3:N:397:LYS:HB2	2.25	0.51
3:N:191:LEU:HD13	3:N:195:VAL:HG11	1.93	0.51
2:C:874:LEU:CD2	3:D:787:LEU:HD22	2.29	0.51
3:D:23:TYR:CE1	3:D:89:ARG:HG2	2.45	0.51
3:D:52:PRO:CG	3:D:78:VAL:HG13	2.41	0.51
3:N:44:LEU:HG	9:N:9296:HOH:O	2.10	0.51
1:K:33:GLY:O	1:K:195:LEU:HD22	2.11	0.51
3:N:698:LYS:HB2	9:N:9171:HOH:O	2.11	0.51
3:D:800:LYS:HD3	3:D:804:LEU:HD22	1.92	0.51
5:F:363:GLU:HA	5:F:367:MET:HG2	1.92	0.51
2:C:244:PRO:HB3	9:C:9170:HOH:O	2.09	0.51
3:N:853:VAL:HG22	3:N:858:VAL:O	2.10	0.51
2:C:413:LEU:H	2:C:413:LEU:CD1	2.17	0.51
3:D:1173:LEU:HA	9:D:9787:HOH:O	2.11	0.51
3:D:486:ARG:HD2	9:D:2277:HOH:O	2.11	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:948:GLU:OE1	2:C:955:PRO:HA	2.11	0.51
2:C:183:SER:HB2	2:C:190:LYS:HG2	1.92	0.51
2:C:113:VAL:O	2:C:115:LEU:HD23	2.11	0.51
2:C:373:VAL:HG12	9:C:2035:HOH:O	2.09	0.51
3:N:7:LYS:HE2	3:N:1458:GLU:OE2	2.10	0.51
3:N:1312:LEU:HD22	9:N:2318:HOH:O	2.10	0.51
2:C:913:GLU:HG3	9:C:9202:HOH:O	2.09	0.51
5:F:280:GLN:HB2	9:F:788:HOH:O	2.09	0.51
5:F:100:VAL:HG21	9:F:458:HOH:O	2.11	0.51
3:D:435:VAL:HG21	9:D:9430:HOH:O	2.10	0.51
3:N:566:ILE:HD13	5:P:217:ASN:HB3	1.93	0.51
2:C:212:GLY:HA2	9:C:9735:HOH:O	2.10	0.51
3:D:171:LEU:HD21	9:D:2706:HOH:O	2.10	0.51
3:D:564:GLU:HG2	9:F:453:HOH:O	2.11	0.51
2:C:579:VAL:HB	2:C:890:LEU:CD2	2.40	0.51
1:B:97:VAL:HG13	9:B:385:HOH:O	2.11	0.51
2:M:874:LEU:HD12	3:N:784:ASP:OD2	2.11	0.51
3:N:1020:LEU:HD21	3:N:1038:LEU:HD12	1.92	0.51
2:M:1015:LEU:HD13	3:N:528:VAL:HG11	1.92	0.51
2:M:625:LEU:HD13	2:M:639:GLN:O	2.11	0.51
2:C:1018:GLN:HB2	2:C:1058:ASP:OD2	2.10	0.51
2:C:159:ILE:HB	9:C:9134:HOH:O	2.09	0.51
2:C:174:LEU:CD2	2:C:184:MET:HG3	2.41	0.51
3:D:149:LYS:HE2	9:D:2101:HOH:O	2.11	0.51
3:D:633:VAL:O	3:D:635:PRO:HD3	2.09	0.51
1:B:132:LEU:HG	9:B:508:HOH:O	2.10	0.51
3:D:853:VAL:HG22	3:D:858:VAL:HG23	1.93	0.51
3:N:672:ALA:HB2	5:P:420:ASP:CG	2.30	0.51
5:P:152:ASP:HB2	5:P:153:PRO:HD3	1.93	0.51
1:B:18:ARG:O	1:B:207:PRO:HD3	2.10	0.51
3:N:1102:THR:HG22	3:N:1222:GLY:HA2	1.93	0.51
1:K:1:MET:SD	1:K:5:LYS:HB3	2.50	0.51
2:M:183:SER:HB3	2:M:190:LYS:HD3	1.92	0.51
2:M:810:ASP:HB3	2:M:813:VAL:CG2	2.41	0.51
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.41	0.51
2:C:971:LYS:HB3	2:C:987:ILE:C	2.31	0.51
3:D:28:LYS:O	3:D:43:GLY:HA2	2.10	0.51
3:D:1425:THR:HG23	3:D:1426:LYS:N	2.25	0.51
2:C:724:ARG:CD	2:C:740:GLU:HA	2.40	0.51
2:C:194:VAL:HG21	2:C:221:LEU:HA	1.93	0.51
2:C:705:ILE:HA	2:C:827:VAL:O	2.11	0.51
2:M:162:ILE:HD12	2:M:172:ILE:HB	1.92	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:366:ALA:HB3	5:P:367:MET:CE	2.41	0.51
3:N:1379:VAL:HA	3:N:1420:LEU:HB3	1.93	0.51
3:D:1065:LEU:HD11	3:D:1070:TYR:N	2.26	0.51
3:D:1065:LEU:HD11	3:D:1070:TYR:CA	2.41	0.51
3:N:153:LEU:HD11	3:N:158:TYR:CA	2.40	0.51
2:M:435:TYR:C	2:M:437:ARG:H	2.13	0.51
1:K:213:GLN:O	1:K:217:ILE:HG13	2.11	0.51
2:M:807:ARG:NH2	2:M:809:GLY:H	2.08	0.51
2:M:167:LYS:HD3	2:M:168:ARG:N	2.26	0.51
2:C:743:VAL:CG1	2:C:800:VAL:HG21	2.41	0.51
1:L:183:ASP:HB3	9:L:3332:HOH:O	2.11	0.51
3:D:857:ILE:HG13	9:D:9158:HOH:O	2.11	0.51
2:C:426:ASP:HA	9:C:9778:HOH:O	2.11	0.51
3:N:603:LEU:O	3:N:606:ILE:HB	2.10	0.51
2:C:374:ASN:HB2	9:C:9454:HOH:O	2.11	0.51
2:C:260:LEU:HD12	2:C:291:ALA:HB1	1.93	0.51
2:M:182:VAL:HG22	9:M:1138:HOH:O	2.10	0.51
1:L:29:GLU:N	9:L:1714:HOH:O	2.43	0.51
2:C:666:LEU:CD2	2:C:668:LEU:HD11	2.41	0.51
3:D:658:LEU:HB3	9:D:9268:HOH:O	2.10	0.51
1:B:112:ARG:HH11	1:B:112:ARG:HB3	1.75	0.51
3:D:135:LEU:HA	3:D:453:ASP:O	2.11	0.51
5:F:407:LYS:HA	9:F:678:HOH:O	2.10	0.51
2:C:615:TYR:HB3	9:C:9476:HOH:O	2.09	0.51
4:E:48:MET:CB	4:E:54:LEU:HB2	2.41	0.51
3:D:1254:GLN:HB2	9:D:9660:HOH:O	2.11	0.51
3:N:1288:GLU:HB3	9:N:9820:HOH:O	2.10	0.51
2:C:292:ARG:HG3	9:C:2047:HOH:O	2.09	0.51
1:B:123:MET:C	1:B:125:PRO:HD3	2.31	0.51
1:K:18:ARG:O	1:K:207:PRO:HD3	2.11	0.51
2:C:735:ARG:HH11	2:C:735:ARG:HG2	1.76	0.51
5:P:128:ARG:NH1	5:P:128:ARG:HB2	2.25	0.51
2:C:744:ARG:HG3	2:C:747:ALA:HB2	1.92	0.51
3:N:971:LEU:HG	3:N:975:GLU:OE1	2.10	0.51
3:N:998:GLU:HG2	9:N:9198:HOH:O	2.11	0.51
3:N:443:VAL:HG11	3:N:445:ARG:NH2	2.26	0.51
3:D:18:ILE:HD12	3:D:518:PRO:HG3	1.93	0.51
3:D:186:VAL:HG23	3:D:211:VAL:CG1	2.41	0.51
3:N:77:GLY:O	3:N:78:VAL:HG23	2.11	0.51
3:D:1481:VAL:HG11	4:E:18:ARG:CA	2.37	0.51
2:C:690:ILE:CG2	2:C:852:ILE:HG13	2.41	0.51
2:C:95:TYR:HE2	9:C:9064:HOH:O	1.94	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:628:ARG:HH11	3:D:744:GLN:NE2	2.09	0.51
3:N:1464:GLU:HG2	3:N:1465:ASN:N	2.25	0.51
3:N:661:MET:HA	3:N:666:ILE:CD1	2.40	0.51
3:N:1258:ARG:HE	3:N:1351:GLU:CD	2.14	0.51
3:N:1372:VAL:O	3:N:1375:MET:HB2	2.10	0.51
3:D:1280:VAL:HG23	3:D:1295:GLU:O	2.11	0.51
1:A:138:LEU:HG	9:A:422:HOH:O	2.11	0.51
2:M:305:PRO:HA	2:M:308:ARG:HE	1.75	0.50
3:N:564:GLU:HB2	9:N:2251:HOH:O	2.11	0.50
3:N:573:MET:SD	5:P:210:LEU:HD13	2.50	0.50
3:N:829:VAL:HG23	9:N:9623:HOH:O	2.12	0.50
4:E:10:PHE:CE2	4:E:16:LYS:HG3	2.45	0.50
2:C:334:ARG:HD2	2:C:418:LEU:HD21	1.93	0.50
3:N:469:ASP:OD1	3:N:471:GLU:HB2	2.11	0.50
3:N:119:SER:HB3	3:N:123:LEU:N	2.23	0.50
1:L:42:ARG:HG2	1:L:42:ARG:HH11	1.76	0.50
3:N:1210:SER:HA	9:N:2195:HOH:O	2.11	0.50
2:M:78:PHE:CG	2:M:88:LEU:HD21	2.46	0.50
3:D:165:LYS:CB	3:D:395:VAL:HG11	2.41	0.50
3:N:210:ARG:NH1	3:N:398:ALA:HB3	2.24	0.50
5:P:247:ILE:O	5:P:251:ILE:HG13	2.10	0.50
3:D:703:ASN:HD21	3:D:707:THR:HG23	1.77	0.50
5:F:154:LYS:HB2	9:F:473:HOH:O	2.11	0.50
2:C:536:PRO:HB2	2:C:905:ILE:HD13	1.93	0.50
1:K:198:ARG:C	1:K:199:ILE:HD12	2.32	0.50
5:P:105:LYS:NZ	5:P:179:GLU:HB3	2.26	0.50
3:D:45:PHE:HD1	9:D:2217:HOH:O	1.93	0.50
3:D:748:HIS:HB2	9:D:9229:HOH:O	2.11	0.50
3:N:1151:ARG:HA	3:N:1162:GLU:HG3	1.93	0.50
2:M:24:GLU:HG2	9:M:1557:HOH:O	2.10	0.50
3:N:1442:ASN:N	9:N:9134:HOH:O	2.43	0.50
2:M:916:GLU:HA	9:M:1993:HOH:O	2.11	0.50
3:D:396:VAL:HG13	3:D:446:VAL:O	2.12	0.50
2:M:207:LEU:HD13	2:M:221:LEU:CD1	2.42	0.50
1:K:36:LEU:O	1:K:40:LEU:HG	2.11	0.50
5:F:196:VAL:HG13	5:F:213:ILE:HD11	1.93	0.50
3:D:558:LEU:HB3	9:F:838:HOH:O	2.11	0.50
5:F:141:VAL:O	5:F:145:PRO:HD2	2.11	0.50
3:D:1211:MET:SD	3:D:1213:ARG:HD2	2.50	0.50
2:C:1067:TYR:CE2	2:C:1071:ILE:HD11	2.46	0.50
1:B:23:PHE:HE2	1:B:199:ILE:HD12	1.75	0.50
2:C:442:GLU:HG3	9:C:9216:HOH:O	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:118:LEU:HB2	9:N:9131:HOH:O	2.11	0.50
3:D:155:ASP:HB3	3:D:159:ARG:HH22	1.76	0.50
3:N:169:TYR:N	3:N:170:PRO:CD	2.74	0.50
2:C:893:ALA:O	2:C:897:LEU:HB2	2.11	0.50
2:M:254:VAL:HG13	2:M:258:TYR:HE1	1.74	0.50
1:L:82:LEU:O	1:L:85:LEU:HB3	2.11	0.50
1:K:5:LYS:O	1:K:8:ALA:HB2	2.11	0.50
5:P:249:ARG:HG3	5:P:253:ASP:OD1	2.10	0.50
3:N:891:GLU:HB2	9:N:9885:HOH:O	2.11	0.50
4:O:94:PRO:HA	9:O:4330:HOH:O	2.10	0.50
5:P:415:THR:HB	9:P:538:HOH:O	2.10	0.50
2:C:1094:ALA:HB1	3:D:603:LEU:HD22	1.92	0.50
5:F:94:LEU:HD22	5:F:97:GLU:HG2	1.93	0.50
3:N:817:GLU:CD	3:N:839:LEU:HD22	2.32	0.50
2:C:569:VAL:O	2:C:571:LEU:HD12	2.12	0.50
2:C:199:VAL:HG22	9:C:9445:HOH:O	2.12	0.50
3:N:516:ALA:HB3	9:N:9851:HOH:O	2.12	0.50
3:N:475:LYS:HE3	9:N:9667:HOH:O	2.11	0.50
1:L:112:ARG:HB2	9:L:6104:HOH:O	2.11	0.50
3:D:628:ARG:HD3	3:D:744:GLN:CD	2.32	0.50
2:C:19:THR:HG22	2:C:22:GLN:HB2	1.92	0.50
2:M:397:GLU:H	2:M:633:GLN:CD	2.13	0.50
3:D:639:LEU:HD13	9:E:107:HOH:O	2.11	0.50
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.76	0.50
1:A:99:LEU:HB3	1:A:114:PHE:CD2	2.46	0.50
3:D:724:GLN:C	3:D:724:GLN:HE21	2.15	0.50
2:C:722:ILE:HD12	2:C:823:VAL:HG21	1.93	0.50
2:C:753:ASP:HA	9:C:9600:HOH:O	2.11	0.50
2:M:241:LEU:HD12	9:M:1745:HOH:O	2.12	0.50
3:N:1478:SER:O	3:N:1482:ARG:HG3	2.11	0.50
1:B:57:TYR:HB2	9:B:316:HOH:O	2.11	0.50
3:D:1066:THR:OG1	3:D:1067:VAL:N	2.43	0.50
9:C:9929:HOH:O	3:D:1068:LEU:HD11	2.11	0.50
2:M:604:ALA:HB3	2:M:612:VAL:O	2.11	0.50
3:N:1189:ARG:NH1	3:N:1201:CYS:SG	2.84	0.50
2:M:757:GLY:HA2	2:M:789:SER:HB3	1.92	0.50
3:D:1236:LEU:HA	3:D:1359:GLN:OE1	2.12	0.50
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	2.26	0.50
5:F:282:LEU:CD1	5:F:286:PRO:HG3	2.41	0.50
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.94	0.50
3:N:1118:ILE:HG21	3:N:1346:ARG:HH22	1.75	0.50
4:O:31:LEU:HG	4:O:35:PHE:HE1	1.76	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
9:D:9550:HOH:O	5:F:421:PHE:HB2	2.10	0.50
3:N:473:LEU:HD21	3:N:495:ARG:NH1	2.27	0.50
2:M:631:SER:HB3	2:M:637:LEU:HD21	1.94	0.50
2:M:770:GLU:HG2	3:N:65:ARG:HH22	1.77	0.50
2:C:1054:THR:HG21	2:C:1079:PRO:HB3	1.92	0.50
2:C:752:GLY:H	2:C:792:VAL:HB	1.76	0.50
1:B:188:GLN:HG3	9:D:2381:HOH:O	2.10	0.50
3:N:1292:VAL:O	3:N:1303:TYR:HB2	2.12	0.50
2:C:726:ILE:O	2:C:726:ILE:HG22	2.11	0.50
2:M:231:PRO:HA	9:M:1364:HOH:O	2.11	0.50
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.94	0.50
2:C:952:LEU:HD12	2:C:969:GLN:OE1	2.11	0.50
3:D:464:LEU:O	3:D:468:LEU:HG	2.11	0.50
3:N:562:ALA:HB1	3:N:567:ILE:CD1	2.41	0.50
3:N:441:ARG:HB3	9:N:9669:HOH:O	2.11	0.50
3:D:519:VAL:HA	3:D:544:TYR:OH	2.12	0.50
3:D:22:SER:OG	3:D:91:GLY:HA2	2.12	0.50
1:K:63:HIS:HD2	1:K:65:PHE:H	1.58	0.50
2:M:339:LEU:HD22	2:M:391:LEU:HD13	1.93	0.50
1:K:99:LEU:CD2	1:K:122:ILE:HD11	2.41	0.50
3:N:729:HIS:CE1	3:N:731:LEU:HG	2.46	0.50
1:K:156:HIS:HD2	1:K:157:GLY:N	2.10	0.50
5:F:153:PRO:HG2	5:F:154:LYS:H	1.76	0.50
1:B:122:ILE:HD11	9:B:455:HOH:O	2.11	0.50
2:C:195:LEU:HD13	9:C:2092:HOH:O	2.10	0.50
2:C:169:GLY:HA3	9:C:9863:HOH:O	2.10	0.50
3:N:586:ARG:HB2	9:N:2411:HOH:O	2.11	0.50
4:O:51:LEU:HD12	4:O:52:GLU:H	1.75	0.50
2:M:253:ALA:HB3	9:M:1190:HOH:O	2.11	0.50
3:D:169:TYR:N	3:D:170:PRO:CD	2.75	0.50
2:M:63:GLY:O	2:M:103:LYS:HE2	2.10	0.50
2:C:9:ILE:HD11	9:C:9893:HOH:O	2.10	0.50
5:P:169:GLU:CD	5:P:169:GLU:H	2.14	0.50
2:M:9:ILE:HG12	2:M:907:ASP:CG	2.31	0.50
1:K:197:LEU:H	1:K:197:LEU:HD23	1.76	0.50
1:L:150:TYR:HE2	1:L:152:PRO:HG3	1.76	0.50
2:C:676:ILE:O	3:D:948:THR:HG22	2.11	0.50
3:D:517:VAL:HG11	3:D:581:LEU:HD21	1.93	0.50
3:D:1468:LEU:HD13	3:D:1470:ARG:HD3	1.93	0.50
2:C:437:ARG:HA	9:C:9653:HOH:O	2.12	0.50
3:D:554:LEU:O	3:D:558:LEU:HG	2.12	0.50
2:M:1075:ASP:OD1	4:O:28:GLN:HG3	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:42:ASP:O	3:N:43:GLY:O	2.29	0.50
3:N:551:ASN:O	3:N:554:LEU:HB3	2.11	0.50
2:C:1052:MET:HG3	3:D:623:VAL:HG22	1.93	0.50
3:N:907:GLU:HG2	3:N:908:LYS:N	2.27	0.50
3:D:135:LEU:CD1	3:D:147:VAL:HG23	2.38	0.50
3:D:1495:ILE:HG12	4:E:80:VAL:HG11	1.94	0.50
3:D:666:ILE:HD12	3:D:666:ILE:N	2.24	0.50
2:C:384:GLU:CD	2:C:388:ARG:HH21	2.15	0.50
2:C:184:MET:HB2	2:C:193:LEU:CD1	2.42	0.50
3:D:1359:GLN:HB3	9:D:9265:HOH:O	2.12	0.50
3:N:165:LYS:HB2	3:N:395:VAL:HG11	1.93	0.50
2:M:31:GLN:OE1	2:M:38:LYS:HB2	2.12	0.50
2:C:57:GLU:OE1	2:C:63:GLY:HA2	2.11	0.50
2:M:601:GLY:O	2:M:648:ARG:HA	2.12	0.50
3:N:1068:LEU:O	3:N:1072:ILE:HG12	2.12	0.50
3:N:169:TYR:HA	3:N:392:SER:HA	1.94	0.50
2:M:226:VAL:HG22	2:M:230:ARG:NH2	2.26	0.50
5:F:422:LEU:N	5:F:422:LEU:HD23	2.27	0.50
2:M:561:GLY:HA3	2:M:842:ARG:O	2.12	0.50
1:L:71:VAL:HG13	9:L:3336:HOH:O	2.11	0.50
2:C:39:ARG:HA	2:C:39:ARG:NE	2.26	0.50
2:C:53:PRO:HG3	9:C:2143:HOH:O	2.12	0.50
2:M:592:LEU:HA	9:M:1416:HOH:O	2.11	0.50
2:C:1068:GLU:O	2:C:1072:LYS:HG2	2.11	0.50
3:D:412:GLY:O	3:D:421:LEU:HB3	2.11	0.50
3:N:524:LEU:HD23	9:N:9183:HOH:O	2.12	0.50
2:C:1085:PHE:CE1	2:C:1111:ILE:HG21	2.47	0.50
3:D:493:ARG:HG2	3:D:493:ARG:HH11	1.77	0.50
3:D:563:PRO:HB3	9:F:445:HOH:O	2.11	0.50
2:C:54:ILE:HG23	2:C:54:ILE:O	2.12	0.50
2:M:184:MET:HB2	2:M:193:LEU:CD1	2.42	0.50
3:N:681:ARG:NH1	3:N:681:ARG:HB3	2.26	0.50
1:L:101:LEU:HG	1:L:114:PHE:HA	1.94	0.50
3:N:1262:LEU:CD2	3:N:1351:GLU:HG3	2.41	0.50
1:K:101:LEU:HG	1:K:113:ASP:O	2.12	0.50
5:F:403:LYS:NZ	5:F:406:ARG:HB2	2.27	0.50
3:D:675:ARG:HD3	9:D:2630:HOH:O	2.12	0.50
3:D:965:GLU:HA	3:D:965:GLU:OE1	2.12	0.50
4:E:31:LEU:HD12	4:E:32:ARG:CD	2.41	0.50
2:C:968:LEU:HD11	9:C:9220:HOH:O	2.12	0.50
3:D:1087:ARG:CG	3:D:1234:THR:HA	2.42	0.50
3:N:1282:ARG:HA	3:N:1315:ASP:OD1	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:759:THR:HB	2:C:785:VAL:CG2	2.41	0.50
3:D:587:ARG:HH11	3:D:587:ARG:HG2	1.76	0.50
2:M:863:ASP:O	2:M:865:THR:N	2.44	0.50
2:M:520:GLU:N	9:M:1671:HOH:O	2.41	0.50
2:C:743:VAL:HG11	2:C:800:VAL:HG21	1.93	0.50
2:M:427:VAL:HG11	9:M:1672:HOH:O	2.10	0.50
3:D:432:TYR:HA	3:D:448:GLU:O	2.11	0.50
5:P:153:PRO:O	5:P:157:GLU:HG2	2.12	0.50
5:F:123:ASP:OD2	5:F:126:LEU:HD22	2.12	0.50
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.93	0.50
3:D:1396:GLU:O	3:D:1400:VAL:HG23	2.12	0.50
3:N:980:MET:HB3	3:N:982:PHE:CD1	2.47	0.50
3:D:683:ILE:HG22	9:D:2014:HOH:O	2.12	0.50
3:D:1283:ILE:N	3:D:1315:ASP:OD1	2.45	0.50
3:N:546:ARG:HD3	9:P:514:HOH:O	2.12	0.50
5:F:102:LEU:HD13	5:F:187:LEU:CA	2.42	0.50
2:C:329:GLY:H	2:C:488:ALA:HB3	1.74	0.50
3:D:561:GLY:HA2	5:F:132:ARG:NH2	2.26	0.50
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.26	0.50
3:D:65:ARG:CG	3:D:66:GLN:H	2.14	0.50
2:C:579:VAL:CG1	2:C:887:GLU:HG3	2.36	0.50
3:D:860:LEU:HA	3:D:877:PRO:HB2	1.92	0.50
2:M:140:ILE:HD12	2:M:140:ILE:H	1.77	0.50
2:M:22:GLN:O	2:M:121:MET:HE1	2.12	0.50
3:N:1112:CYS:HA	3:N:1195:GLN:HE22	1.76	0.50
1:L:89:PHE:CE2	1:L:146:ARG:HB3	2.47	0.50
5:P:338:LEU:HG	9:P:531:HOH:O	2.12	0.50
1:A:9:PRO:HB3	1:A:25:LEU:HD21	1.94	0.50
3:N:1242:HIS:CE1	3:N:1266:ARG:HD3	2.47	0.50
3:N:1335:LEU:HD23	3:N:1344:VAL:HA	1.93	0.50
3:D:865:THR:HG21	9:D:2307:HOH:O	2.11	0.50
1:B:140:MET:N	1:B:140:MET:SD	2.85	0.50
3:D:483:HIS:ND1	3:D:483:HIS:N	2.59	0.50
3:D:895:VAL:O	3:D:899:LEU:HG	2.12	0.50
3:N:1240:THR:HG23	9:N:9436:HOH:O	2.11	0.50
3:D:992:ILE:O	3:D:995:LEU:HB3	2.12	0.50
2:M:242:LEU:HD12	9:M:1962:HOH:O	2.12	0.50
2:C:720:GLU:HA	2:C:759:THR:O	2.12	0.50
2:M:101:ILE:HG22	2:M:102:HIS:N	2.26	0.50
2:C:604:ALA:HB3	2:C:612:VAL:O	2.12	0.50
2:M:381:ALA:HA	9:M:1661:HOH:O	2.11	0.50
3:N:1380:GLU:HG2	3:N:1418:LYS:HD3	1.93	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:685:ASP:HB2	9:D:2219:HOH:O	2.11	0.50
1:A:185:ARG:HB3	9:A:497:HOH:O	2.11	0.50
3:N:178:LEU:HD22	9:N:9728:HOH:O	2.12	0.50
3:N:1035:ILE:HG22	3:N:1039:CYS:SG	2.52	0.50
2:M:292:ARG:HD2	2:M:299:LYS:HD3	1.93	0.50
5:F:138:SER:HB2	5:F:140:ARG:HG2	1.93	0.50
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.41	0.50
5:F:268:ILE:HD11	9:F:522:HOH:O	2.10	0.50
3:D:1147:ARG:O	3:D:1166:LEU:HD23	2.12	0.50
3:D:1176:LYS:HA	3:D:1179:GLU:OE1	2.12	0.50
2:M:749:VAL:HG12	2:M:753:ASP:HB2	1.93	0.50
2:C:380:ALA:HA	2:C:383:ARG:HG2	1.94	0.50
2:C:553:ASP:HA	2:C:881:ASN:HA	1.94	0.50
3:D:1336:LEU:HD22	3:D:1421:LEU:HB2	1.94	0.50
1:B:86:VAL:HG23	9:B:594:HOH:O	2.12	0.50
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.12	0.50
3:D:844:ALA:HB3	3:D:848:GLU:OE2	2.12	0.50
2:M:251:ASP:HB3	2:M:252:LYS:HD2	1.94	0.50
5:F:409:LYS:HD3	9:F:686:HOH:O	2.11	0.50
3:D:700:VAL:HG22	3:D:718:PRO:HG3	1.94	0.50
3:N:1080:GLY:HA3	9:N:9498:HOH:O	2.10	0.50
3:D:601:ARG:HG3	3:D:605:ASP:CB	2.42	0.49
5:F:188:ILE:HA	9:F:658:HOH:O	2.11	0.49
2:C:630:ARG:NH2	2:C:706:GLU:C	2.66	0.49
2:M:1115:LEU:HD12	2:M:1115:LEU:N	2.27	0.49
3:N:85:VAL:HG11	3:N:89:ARG:NH2	2.27	0.49
3:D:1372:VAL:HG23	3:D:1375:MET:HE3	1.94	0.49
2:C:691:SER:HB2	2:C:858:MET:SD	2.52	0.49
2:C:397:GLU:HB3	9:C:9154:HOH:O	2.10	0.49
2:C:398:THR:HG22	2:C:568:ALA:O	2.11	0.49
3:N:949:ILE:HD11	3:N:1023:MET:CE	2.42	0.49
2:M:607:ASP:HB2	2:M:610:ARG:NH1	2.27	0.49
3:D:817:GLU:OE2	3:D:839:LEU:HD22	2.11	0.49
5:P:269:ASN:HD21	5:P:273:ARG:CZ	2.24	0.49
3:D:1412:LYS:HD2	9:D:2744:HOH:O	2.12	0.49
3:N:973:GLN:HA	3:N:976:GLN:NE2	2.26	0.49
3:N:1090:ASP:HA	3:N:1093:TYR:HB2	1.93	0.49
2:M:253:ALA:HB1	9:M:2202:HOH:O	2.12	0.49
2:M:239:PHE:CZ	2:M:254:VAL:HB	2.47	0.49
3:N:776:GLU:HB3	3:N:912:LYS:HE2	1.94	0.49
2:C:286:SER:HB3	2:C:299:LYS:HE3	1.94	0.49
1:L:78:ILE:O	1:L:82:LEU:HG	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:295:ASP:HB2	9:M:1770:HOH:O	2.11	0.49
2:M:481:ASP:HB2	9:M:1768:HOH:O	2.12	0.49
3:D:1355:VAL:HG23	9:D:9685:HOH:O	2.10	0.49
2:M:948:GLU:HB3	2:M:953:VAL:HG23	1.93	0.49
2:C:76:PRO:HG2	9:C:9648:HOH:O	2.11	0.49
3:D:759:ALA:HA	3:D:763:MET:HB3	1.94	0.49
3:N:1261:GLU:HB3	9:N:2134:HOH:O	2.12	0.49
2:M:80:GLN:HG3	9:M:2237:HOH:O	2.11	0.49
5:P:372:ARG:HB2	9:P:766:HOH:O	2.12	0.49
2:C:1096:ALA:HB2	3:D:101:HIS:CD2	2.48	0.49
2:M:264:PRO:HB3	2:M:289:THR:CB	2.42	0.49
3:D:179:VAL:HG22	3:D:389:GLU:CD	2.32	0.49
3:D:171:LEU:HD13	3:D:389:GLU:O	2.12	0.49
3:N:81:THR:HG22	3:N:82:LYS:H	1.77	0.49
5:P:141:VAL:O	5:P:145:PRO:HD2	2.12	0.49
2:C:674:VAL:HG11	2:C:992:MET:HB3	1.94	0.49
3:N:500:ARG:HD2	9:N:9803:HOH:O	2.11	0.49
3:N:22:SER:HA	3:N:90:MET:O	2.13	0.49
2:M:673:LEU:HD22	2:M:867:VAL:HA	1.94	0.49
3:N:165:LYS:CB	3:N:395:VAL:HG11	2.43	0.49
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.93	0.49
1:B:124:ASN:ND2	1:B:127:LEU:HD22	2.27	0.49
4:E:64:ALA:HA	4:E:67:GLU:CD	2.32	0.49
3:N:785:ILE:HD12	3:N:785:ILE:N	2.26	0.49
4:E:54:LEU:HD21	9:E:101:HOH:O	2.12	0.49
3:N:1129:THR:HG23	9:N:2064:HOH:O	2.12	0.49
9:N:9234:HOH:O	5:P:309:LYS:HB3	2.12	0.49
3:N:980:MET:HB3	3:N:982:PHE:CE1	2.48	0.49
2:C:703:ILE:HD11	2:C:830:LYS:HG2	1.93	0.49
2:M:497:ALA:HA	2:M:515:ALA:HA	1.93	0.49
1:B:159:LYS:N	1:B:159:LYS:HD3	2.27	0.49
3:N:488:ARG:HD3	9:N:9642:HOH:O	2.11	0.49
3:N:561:GLY:HA3	5:P:184:ARG:NH2	2.26	0.49
2:C:1094:ALA:HA	9:D:2368:HOH:O	2.13	0.49
3:D:90:MET:HE2	3:D:519:VAL:O	2.12	0.49
1:K:89:PHE:HD1	1:K:120:VAL:HG23	1.76	0.49
5:P:414:ARG:HH11	5:P:414:ARG:HG2	1.77	0.49
2:C:47:ALA:HB2	2:C:345:ARG:NH1	2.27	0.49
2:M:470:PRO:HG2	2:M:538:GLN:OE1	2.12	0.49
2:M:909:ALA:C	2:M:910:LYS:HD2	2.32	0.49
2:C:555:ALA:HB2	3:D:1070:TYR:HE2	1.78	0.49
3:N:133:ILE:HD13	3:N:454:ALA:HB1	1.95	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:850:LEU:O	3:N:853:VAL:HB	2.12	0.49
2:M:1085:PHE:CE1	2:M:1111:ILE:HG21	2.47	0.49
3:N:654:LYS:CE	3:N:674:ARG:HH22	2.25	0.49
1:L:127:LEU:HD12	1:L:128:HIS:H	1.76	0.49
3:N:1394:VAL:HG23	9:N:2210:HOH:O	2.12	0.49
1:K:58:ILE:HD13	1:K:140:MET:HB3	1.93	0.49
3:N:972:LEU:HD13	9:N:9514:HOH:O	2.12	0.49
2:C:836:GLY:HA2	3:D:725:SER:OG	2.11	0.49
2:M:41:ASN:HD22	2:M:41:ASN:H	1.60	0.49
2:C:513:VAL:HB	9:C:2036:HOH:O	2.12	0.49
3:D:102:ILE:HG13	9:D:9163:HOH:O	2.13	0.49
3:N:1478:SER:HG	3:N:1480:PHE:HB3	1.76	0.49
1:K:97:VAL:HG23	9:K:1348:HOH:O	2.11	0.49
1:B:62:LEU:HD12	9:B:386:HOH:O	2.10	0.49
3:N:120:ALA:HB1	9:N:2010:HOH:O	2.12	0.49
5:F:297:PRO:HA	9:F:639:HOH:O	2.11	0.49
2:M:42:VAL:HG12	2:M:43:GLY:H	1.77	0.49
3:N:178:LEU:HD23	3:N:181:ASP:OD2	2.12	0.49
2:C:110:GLU:HB2	2:C:368:THR:CG2	2.42	0.49
2:C:746:GLY:C	2:C:799:ILE:HG22	2.32	0.49
2:C:302:VAL:C	2:C:305:PRO:HD2	2.33	0.49
3:N:1476:THR:CG2	4:O:21:VAL:HG22	2.36	0.49
3:N:28:LYS:NZ	3:N:552:ASN:HD22	2.10	0.49
5:P:347:GLN:HA	5:P:350:LEU:HD22	1.94	0.49
3:D:1168:MET:HE1	3:D:1171:VAL:HB	1.94	0.49
2:M:577:PRO:HG3	2:M:993:PHE:CE1	2.47	0.49
5:F:263:HIS:HB3	9:F:740:HOH:O	2.12	0.49
2:M:408:ARG:HB2	2:M:455:LEU:HD22	1.93	0.49
2:M:1015:LEU:HD13	3:N:528:VAL:HG21	1.95	0.49
2:M:339:LEU:HB3	2:M:385:PHE:HZ	1.77	0.49
3:N:616:GLN:HA	3:N:616:GLN:NE2	2.25	0.49
1:L:176:ARG:HG3	1:L:200:TRP:CE3	2.48	0.49
2:M:109:LYS:HE3	9:M:1380:HOH:O	2.11	0.49
5:F:282:LEU:HD11	5:F:286:PRO:HG3	1.93	0.49
2:C:410:ILE:HD11	2:C:455:LEU:HD22	1.95	0.49
1:K:112:ARG:NH1	1:K:125:PRO:HB2	2.27	0.49
9:C:9546:HOH:O	3:D:1029:ARG:HB3	2.12	0.49
2:M:490:GLU:HG2	2:M:494:TYR:CE1	2.47	0.49
3:D:576:GLU:C	3:D:576:GLU:CD	2.71	0.49
4:E:17:TYR:CD2	4:E:17:TYR:N	2.78	0.49
1:L:64:GLU:HG3	1:L:165:ILE:HD12	1.94	0.49
2:M:51:THR:HA	9:M:1601:HOH:O	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:162:LYS:HG3	9:P:601:HOH:O	2.12	0.49
5:F:374:GLY:HA2	9:F:564:HOH:O	2.11	0.49
2:C:489:THR:HG23	9:C:9613:HOH:O	2.11	0.49
5:F:223:ALA:HB2	5:F:242:TRP:HB2	1.94	0.49
2:C:724:ARG:CG	2:C:740:GLU:HA	2.42	0.49
3:N:829:VAL:H	3:N:835:SER:HB2	1.77	0.49
3:D:567:ILE:HG22	3:D:571:LYS:HZ1	1.77	0.49
1:A:30:ARG:NE	1:A:191:ASP:HB3	2.26	0.49
2:C:671:ASN:ND2	2:C:671:ASN:H	2.10	0.49
3:D:1140:ILE:O	3:D:1144:LEU:HD12	2.12	0.49
2:M:860:HIS:CE1	2:M:975:TYR:HB2	2.48	0.49
2:M:141:HIS:HB3	2:M:418:LEU:HD23	1.94	0.49
2:M:418:LEU:HD12	2:M:418:LEU:N	2.27	0.49
2:M:610:ARG:HD2	2:M:612:VAL:HG23	1.95	0.49
2:C:815:LEU:HD12	9:C:9978:HOH:O	2.13	0.49
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.95	0.49
2:M:1067:TYR:CE2	5:P:342:VAL:HA	2.46	0.49
3:N:1264:GLU:HG2	3:N:1266:ARG:CZ	2.41	0.49
1:A:18:ARG:HH12	1:A:88:ARG:NH1	2.10	0.49
3:D:1256:LEU:HA	3:D:1259:VAL:HG23	1.94	0.49
4:E:29:GLN:HB2	4:E:33:HIS:NE2	2.27	0.49
4:E:33:HIS:HD2	9:E:151:HOH:O	1.96	0.49
2:C:146:VAL:HG22	2:C:162:ILE:HG23	1.94	0.49
1:B:103:ALA:HB1	1:B:107:LYS:CE	2.42	0.49
3:N:1009:LYS:HA	3:N:1012:GLU:OE2	2.13	0.49
3:D:1119:SER:HA	3:D:1186:VAL:O	2.12	0.49
3:D:924:MET:HB3	4:E:7:ASP:OD1	2.13	0.49
4:O:37:ASN:HA	4:O:93:TYR:CE2	2.47	0.49
3:D:789:LEU:HD22	3:D:882:PHE:HD1	1.77	0.49
3:D:815:ALA:HB3	9:D:2551:HOH:O	2.11	0.49
3:N:757:ALA:HA	9:O:6768:HOH:O	2.11	0.49
3:N:861:GLN:H	3:N:861:GLN:CD	2.16	0.49
2:C:1098:ASP:OD1	2:C:1098:ASP:C	2.50	0.49
2:M:1095:LEU:HD23	3:N:582:LEU:HD22	1.94	0.49
3:D:493:ARG:NH2	3:D:1389:LEU:N	2.60	0.49
3:N:171:LEU:HD22	3:N:390:PRO:HG3	1.95	0.49
2:M:783:ARG:HG2	2:M:785:VAL:HG12	1.94	0.49
2:C:704:HIS:HB2	2:C:831:ARG:NE	2.27	0.49
3:D:805:GLU:O	3:D:805:GLU:OE1	2.31	0.49
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.27	0.49
2:C:585:GLU:O	2:C:588:VAL:HG22	2.13	0.49
2:M:15:LEU:HD22	2:M:18:LEU:HD11	1.95	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:542:VAL:HB	9:M:1641:HOH:O	2.12	0.49
2:M:512:ARG:HD3	9:M:1205:HOH:O	2.12	0.49
2:M:267:TYR:CD1	2:M:272:ALA:HB1	2.47	0.49
3:D:32:ILE:O	5:F:258:ILE:HD12	2.13	0.49
3:D:160:GLU:HG3	9:D:2065:HOH:O	2.12	0.49
3:N:1133:ARG:HB2	9:N:9840:HOH:O	2.11	0.49
3:N:430:ASP:HB2	9:N:2649:HOH:O	2.12	0.49
2:C:510:ALA:HB3	2:C:513:VAL:HG23	1.93	0.49
2:C:5:ARG:HH11	2:C:5:ARG:HG2	1.76	0.49
1:A:127:LEU:HD12	1:A:127:LEU:C	2.33	0.49
5:P:368:VAL:HG13	9:P:766:HOH:O	2.13	0.49
2:M:1012:PRO:HG2	9:M:2087:HOH:O	2.12	0.49
1:L:81:ASN:HB2	9:L:3134:HOH:O	2.11	0.49
5:F:124:PRO:HB2	9:F:642:HOH:O	2.11	0.49
3:N:920:LEU:HD21	9:N:2253:HOH:O	2.13	0.49
5:F:316:SER:C	5:F:318:GLU:N	2.62	0.49
3:N:107:ASP:HB3	9:N:9434:HOH:O	2.11	0.49
2:C:771:GLU:HG2	9:F:623:HOH:O	2.11	0.49
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.42	0.49
3:D:804:LEU:HB3	9:D:9135:HOH:O	2.12	0.49
2:C:575:GLN:OE1	2:C:670:GLN:HB3	2.13	0.49
3:N:1253:THR:OG1	3:N:1258:ARG:HD2	2.12	0.49
3:D:115:LEU:HD22	3:D:502:PHE:CE1	2.45	0.49
3:D:868:TYR:HB3	3:D:873:LEU:HD11	1.93	0.49
3:D:588:GLY:HA2	9:D:9743:HOH:O	2.11	0.49
1:A:126:ASP:N	9:A:325:HOH:O	2.44	0.49
2:C:9:ILE:HG12	2:C:907:ASP:CG	2.31	0.49
5:P:167:PRO:HD3	9:P:592:HOH:O	2.12	0.49
3:D:539:ASP:CG	5:F:318:GLU:HB2	2.33	0.49
1:L:116:PRO:HB3	9:L:1408:HOH:O	2.12	0.49
4:E:50:THR:HG23	9:E:215:HOH:O	2.11	0.49
2:C:376:ARG:HB3	2:C:377:PRO:HD3	1.95	0.49
2:M:818:GLY:HA3	9:M:1356:HOH:O	2.12	0.49
3:D:44:LEU:HB3	3:D:525:ARG:NH2	2.27	0.49
3:N:835:SER:HB2	9:N:9623:HOH:O	2.13	0.49
9:N:9944:HOH:O	5:P:140:ARG:HD2	2.12	0.49
3:D:830:ALA:HA	9:D:9695:HOH:O	2.11	0.49
2:C:186:VAL:HG23	2:C:187:ASN:N	2.22	0.49
3:N:787:LEU:O	3:N:787:LEU:HD12	2.13	0.49
1:A:72:LYS:HB3	1:A:73:GLU:OE2	2.13	0.49
2:M:975:TYR:HA	2:M:982:PRO:HA	1.94	0.49
3:N:119:SER:H	3:N:123:LEU:CB	2.23	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:818:GLY:HA2	9:C:9069:HOH:O	2.13	0.49
2:C:1106:ASP:C	2:C:1107:ASN:HD22	2.16	0.49
2:M:114:PHE:CE2	5:P:283:GLY:HA3	2.43	0.49
2:C:480:THR:HG22	2:C:481:ASP:N	2.27	0.49
4:O:87:LYS:O	4:O:91:ARG:HG3	2.13	0.49
5:F:274:THR:O	5:F:278:LEU:HG	2.13	0.49
1:K:59:GLU:HG3	1:K:139:ASN:O	2.12	0.49
4:E:33:HIS:HB2	4:E:37:ASN:ND2	2.28	0.49
2:C:654:LEU:HD11	2:C:663:ASN:ND2	2.27	0.49
3:D:531:ASP:HB2	9:D:2442:HOH:O	2.12	0.49
5:P:207:LEU:HA	9:P:647:HOH:O	2.13	0.49
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.33	0.49
3:D:797:LYS:HZ3	3:D:1016:PRO:HB3	1.77	0.49
1:B:183:ASP:HB2	9:B:424:HOH:O	2.13	0.49
1:L:111:ALA:HB3	1:L:124:ASN:O	2.13	0.49
2:C:1030:GLN:HB2	3:D:626:SER:HB2	1.93	0.49
3:D:1185:GLU:HG3	9:D:2020:HOH:O	2.12	0.49
1:A:97:VAL:HG23	9:A:555:HOH:O	2.13	0.49
3:D:1002:LYS:HG3	9:D:2445:HOH:O	2.13	0.49
2:C:98:LEU:N	2:C:98:LEU:HD12	2.27	0.49
2:C:249:LYS:HA	9:C:9082:HOH:O	2.12	0.49
3:D:27:GLU:C	3:D:28:LYS:HD2	2.33	0.49
3:D:581:LEU:HD12	3:D:603:LEU:HD12	1.94	0.49
3:D:493:ARG:HH22	3:D:1389:LEU:CG	2.24	0.49
1:A:14:ARG:CZ	1:A:24:VAL:HG23	2.42	0.49
3:D:1272:ALA:CA	3:D:1326:THR:HB	2.41	0.49
3:D:1141:GLU:HA	9:D:2295:HOH:O	2.13	0.49
3:N:951:ILE:HD12	3:N:1062:ARG:HE	1.77	0.49
2:M:744:ARG:HG3	2:M:747:ALA:HB2	1.95	0.49
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.94	0.49
1:B:44:LEU:HD13	1:B:177:VAL:HG12	1.94	0.49
2:M:73:LEU:HD12	2:M:73:LEU:O	2.13	0.49
3:N:661:MET:HA	3:N:666:ILE:HD11	1.94	0.49
5:P:342:VAL:HG23	5:P:343:ASP:OD1	2.13	0.49
2:C:1107:ASN:N	2:C:1107:ASN:HD22	2.11	0.49
2:C:173:ASP:HB3	9:C:9134:HOH:O	2.12	0.49
3:D:750:PRO:HB2	3:D:756:GLN:OE1	2.12	0.49
1:B:101:LEU:HA	9:B:368:HOH:O	2.11	0.49
2:C:28:ARG:HD2	9:C:9482:HOH:O	2.11	0.49
3:N:1014:ASN:HA	9:N:2305:HOH:O	2.13	0.49
2:C:275:TYR:OH	2:C:487:THR:HG21	2.13	0.49
3:N:1054:GLU:HB2	9:N:9249:HOH:O	2.12	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:80:GLN:HB3	2:C:84:ARG:HH21	1.77	0.49
2:M:591:SER:HB2	9:M:1565:HOH:O	2.12	0.49
2:M:730:SER:O	2:M:734:LEU:HD13	2.12	0.49
3:D:437:VAL:HG21	9:D:9719:HOH:O	2.12	0.49
3:N:523:ASP:O	3:N:526:PRO:HG3	2.13	0.49
2:C:218:VAL:HG22	2:C:221:LEU:CD2	2.43	0.49
3:D:172:PRO:HG2	9:D:9683:HOH:O	2.13	0.49
2:C:630:ARG:HH22	2:C:707:ARG:N	2.11	0.49
2:C:949:LYS:HA	3:D:798:GLU:OE1	2.13	0.49
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.94	0.49
5:F:81:VAL:HG12	5:F:85:LEU:CD1	2.43	0.49
2:C:15:LEU:HD12	2:C:586:ARG:HG3	1.94	0.49
2:M:140:ILE:O	2:M:418:LEU:HD23	2.13	0.49
2:M:1015:LEU:N	5:P:333:ILE:O	2.46	0.49
2:C:837:ASP:O	2:C:848:VAL:HG13	2.13	0.49
1:L:112:ARG:HG3	9:L:6377:HOH:O	2.12	0.49
3:N:514:LEU:HD23	9:N:9120:HOH:O	2.13	0.49
3:N:1137:ARG:O	3:N:1140:ILE:N	2.45	0.49
5:P:102:LEU:HD22	5:P:183:ALA:O	2.12	0.49
3:N:1106:VAL:HG21	3:N:1474:ALA:HB2	1.94	0.49
2:M:93:PRO:HG3	2:M:117:HIS:CE1	2.43	0.49
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.43	0.49
3:N:32:ILE:HG12	3:N:38:LYS:O	2.13	0.49
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.33	0.49
2:C:19:THR:HG22	2:C:19:THR:O	2.13	0.49
3:D:988:ARG:HD2	3:D:989:TYR:N	2.28	0.49
1:A:85:LEU:HA	1:A:124:ASN:HD22	1.78	0.49
2:M:9:ILE:HG13	2:M:9:ILE:O	2.13	0.49
3:N:888:GLU:HA	3:N:891:GLU:OE1	2.13	0.49
3:D:789:LEU:HD22	3:D:882:PHE:CD1	2.48	0.49
3:N:182:GLY:HA2	9:N:9150:HOH:O	2.13	0.49
3:D:501:ALA:HB1	3:D:1453:ALA:HA	1.95	0.49
4:O:46:PRO:HD2	9:O:1272:HOH:O	2.11	0.49
3:D:434:ARG:HB2	3:D:447:VAL:CG1	2.43	0.48
3:D:421:LEU:HD12	3:D:435:VAL:HG11	1.94	0.48
3:N:553:ARG:NH1	5:P:211:ASP:HA	2.27	0.48
3:N:396:VAL:HA	3:N:448:GLU:OE2	2.13	0.48
2:C:1118:LYS:HD2	3:D:22:SER:O	2.12	0.48
3:N:171:LEU:HB2	3:N:390:PRO:CA	2.42	0.48
2:C:333:ILE:HD13	2:C:467:ILE:HG13	1.95	0.48
3:N:829:VAL:HA	9:N:9268:HOH:O	2.13	0.48
3:D:800:LYS:HE2	9:D:9324:HOH:O	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:875:THR:HG22	3:D:879:ARG:HB2	1.94	0.48
3:D:178:LEU:HG	3:D:200:ASP:H	1.77	0.48
2:C:675:ALA:CA	2:C:989:VAL:HG12	2.39	0.48
3:N:18:ILE:HA	3:N:21:TRP:CZ3	2.48	0.48
2:C:47:ALA:HA	2:C:50:GLU:OE2	2.13	0.48
5:F:404:ALA:O	5:F:408:LEU:HB2	2.12	0.48
3:N:952:ASP:HA	3:N:1062:ARG:NH2	2.27	0.48
1:K:67:THR:OG1	2:M:608:GLY:HA3	2.13	0.48
2:C:265:ARG:HB3	2:C:267:TYR:CE2	2.47	0.48
3:N:389:GLU:HG3	9:N:9445:HOH:O	2.12	0.48
1:K:91:ASN:HB2	9:K:4664:HOH:O	2.12	0.48
3:D:767:HIS:CD2	4:E:6:ILE:HG12	2.48	0.48
3:N:1005:GLN:O	3:N:1009:LYS:HB2	2.12	0.48
3:N:1065:LEU:HD11	3:N:1069:GLU:HB2	1.95	0.48
2:C:510:ALA:HB3	2:C:513:VAL:CG2	2.43	0.48
1:L:133:GLU:HA	9:L:1907:HOH:O	2.13	0.48
1:L:159:LYS:HD2	9:L:6173:HOH:O	2.12	0.48
1:A:128:HIS:NE2	1:A:131:THR:HG23	2.28	0.48
3:N:992:ILE:O	3:N:995:LEU:HB3	2.12	0.48
2:C:143:SER:HB3	2:C:330:ASN:O	2.13	0.48
3:D:1045:MET:O	3:D:1053:PHE:HD1	1.95	0.48
3:N:566:ILE:HG13	5:P:192:LEU:HD11	1.96	0.48
3:N:185:VAL:HG12	3:N:191:LEU:HD21	1.95	0.48
3:D:22:SER:HA	3:D:90:MET:O	2.13	0.48
3:D:584:ASN:CG	3:D:590:PRO:HD2	2.34	0.48
2:C:281:LEU:HB2	2:C:309:TYR:CG	2.48	0.48
2:M:460:ARG:HB3	2:M:460:ARG:NH1	2.28	0.48
5:F:138:SER:O	5:F:141:VAL:HG12	2.13	0.48
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.43	0.48
5:P:401:GLU:HG3	5:P:402:ASN:N	2.28	0.48
2:C:498:GLN:CD	3:D:1068:LEU:HD12	2.33	0.48
3:D:1068:LEU:C	3:D:1070:TYR:N	2.63	0.48
2:M:525:SER:OG	2:M:527:GLU:HG3	2.13	0.48
3:D:1052:THR:HG22	9:D:2045:HOH:O	2.14	0.48
1:B:99:LEU:HD11	9:B:455:HOH:O	2.12	0.48
2:M:927:GLY:HA2	2:M:930:LYS:CE	2.42	0.48
3:D:445:ARG:HG2	3:D:445:ARG:HH11	1.79	0.48
3:N:1198:TYR:HA	9:N:9899:HOH:O	2.12	0.48
3:D:170:PRO:HG2	9:D:9947:HOH:O	2.14	0.48
3:D:615:ARG:NH2	3:D:1440:PHE:HA	2.28	0.48
1:K:72:LYS:NZ	2:M:644:VAL:HG12	2.29	0.48
2:M:643:VAL:HG13	2:M:647:GLN:CD	2.33	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:69:LEU:HD12	2:C:97:ARG:HB3	1.95	0.48
2:M:198:ARG:HB3	9:M:1364:HOH:O	2.12	0.48
3:N:519:VAL:HG13	3:N:544:TYR:CZ	2.48	0.48
3:N:177:ALA:HB3	9:N:9617:HOH:O	2.13	0.48
3:N:211:VAL:HG13	3:N:393:ILE:HA	1.96	0.48
3:D:1465:ASN:ND2	3:D:1470:ARG:HH11	2.11	0.48
3:D:214:GLU:CD	3:D:390:PRO:HB2	2.33	0.48
2:C:338:GLU:HA	2:C:341:THR:CG2	2.42	0.48
2:M:139:GLN:HE21	2:M:334:ARG:HD3	1.77	0.48
3:N:666:ILE:HA	3:N:684:LYS:NZ	2.29	0.48
2:M:78:PHE:HB2	2:M:88:LEU:HD21	1.95	0.48
2:M:690:ILE:HG13	2:M:694:LEU:HD12	1.95	0.48
3:D:1124:GLN:NE2	3:D:1135:ARG:HA	2.29	0.48
3:D:1050:GLY:HA2	9:D:9419:HOH:O	2.13	0.48
5:F:419:ARG:O	5:F:421:PHE:N	2.46	0.48
3:N:135:LEU:HD22	9:N:9205:HOH:O	2.13	0.48
1:B:109:VAL:HG21	1:B:138:LEU:HD21	1.95	0.48
1:B:132:LEU:HD21	1:B:136:GLY:O	2.13	0.48
2:M:20:GLU:HG3	9:M:2282:HOH:O	2.14	0.48
5:P:157:GLU:HB2	9:P:425:HOH:O	2.12	0.48
3:D:797:LYS:NZ	3:D:1016:PRO:HB3	2.28	0.48
1:K:229:GLN:HB3	9:L:1928:HOH:O	2.13	0.48
5:P:349:LEU:HB2	9:P:452:HOH:O	2.13	0.48
1:A:95:GLN:HA	9:A:316:HOH:O	2.13	0.48
3:N:243:ALA:HB3	9:N:2636:HOH:O	2.12	0.48
3:D:1212:ALA:HA	9:D:2287:HOH:O	2.13	0.48
3:N:563:PRO:HG3	5:P:188:ILE:HG21	1.96	0.48
3:D:601:ARG:HG3	3:D:605:ASP:HB2	1.95	0.48
3:D:566:ILE:HG12	5:F:192:LEU:HD11	1.95	0.48
2:C:503:LEU:HD13	2:C:507:ARG:O	2.13	0.48
2:C:630:ARG:HE	2:C:705:ILE:CB	2.25	0.48
5:P:304:VAL:HG23	9:P:543:HOH:O	2.13	0.48
2:C:395:LYS:HG2	2:C:397:GLU:HG2	1.96	0.48
2:M:565:GLN:HG2	2:M:995:MET:CE	2.44	0.48
5:F:125:ASP:O	5:F:129:GLU:HG2	2.13	0.48
2:M:328:LEU:HD11	2:M:434:HIS:HD2	1.78	0.48
3:D:608:SER:HB2	3:D:1443:THR:OG1	2.13	0.48
2:M:412:ALA:HB1	2:M:419:THR:HG23	1.96	0.48
3:D:1156:LEU:HD11	3:D:1177:ALA:HA	1.95	0.48
1:A:2:LEU:O	1:A:6:LEU:HB3	2.13	0.48
1:L:115:LEU:HD12	1:L:115:LEU:O	2.14	0.48
2:M:420:ARG:HG3	2:M:422:ARG:HG2	1.95	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:P:201:LYS:HB2	9:P:509:HOH:O	2.13	0.48
2:M:209:ARG:O	2:M:213:ALA:HB2	2.14	0.48
3:D:1402:ALA:HB2	3:D:1415:VAL:CG2	2.44	0.48
3:D:167:GLU:HB2	9:D:2586:HOH:O	2.12	0.48
4:O:66:LYS:HB2	4:O:66:LYS:NZ	2.28	0.48
3:N:685:ASP:HB3	9:N:9486:HOH:O	2.12	0.48
2:C:79:PRO:HG2	2:C:82:GLU:HB2	1.95	0.48
3:D:1401:GLU:OE1	3:D:1405:GLU:HB2	2.14	0.48
2:C:44:ILE:HD13	2:C:344:PHE:CD1	2.49	0.48
3:N:202:VAL:HA	9:N:9842:HOH:O	2.12	0.48
3:N:396:VAL:HG13	3:N:446:VAL:O	2.13	0.48
3:N:396:VAL:CG2	3:N:447:VAL:HB	2.41	0.48
5:P:171:LYS:HE3	5:P:175:HIS:NE2	2.28	0.48
2:C:773:LEU:HD21	9:F:722:HOH:O	2.13	0.48
2:C:437:ARG:HG3	2:C:469:THR:HB	1.95	0.48
2:M:1115:LEU:HB3	3:N:85:VAL:CG1	2.42	0.48
2:C:886:LEU:CD2	3:D:951:ILE:HG13	2.43	0.48
9:M:1411:HOH:O	5:P:351:SER:HA	2.12	0.48
2:C:625:LEU:O	2:C:627:ARG:N	2.47	0.48
2:C:497:ALA:HA	2:C:515:ALA:HA	1.96	0.48
2:M:403:SER:O	2:M:407:LYS:HG3	2.13	0.48
3:N:1145:TYR:HE2	3:N:1168:MET:HB2	1.78	0.48
3:D:806:PHE:CZ	3:D:813:LEU:HB3	2.48	0.48
2:M:1085:PHE:CD2	3:N:1468:LEU:HA	2.41	0.48
1:K:11:PHE:HE1	1:L:225:PHE:HD2	1.61	0.48
1:K:11:PHE:CE1	1:L:225:PHE:HD2	2.32	0.48
5:P:321:ILE:HG21	5:P:332:PHE:CE2	2.48	0.48
2:M:704:HIS:CD2	2:M:831:ARG:HH21	2.32	0.48
1:L:184:THR:HB	1:L:194:LYS:NZ	2.27	0.48
3:N:207:PHE:CB	3:N:208:PRO:HD2	2.39	0.48
4:E:33:HIS:CG	4:E:89:MET:HG2	2.49	0.48
2:C:573:ARG:HG3	2:C:698:ASP:O	2.13	0.48
4:E:54:LEU:HG	4:E:58:PRO:CG	2.42	0.48
1:L:52:ALA:HB2	1:L:170:VAL:O	2.14	0.48
3:N:986:ARG:HD3	9:N:9116:HOH:O	2.14	0.48
5:F:194:LEU:HB2	9:F:669:HOH:O	2.13	0.48
2:M:817:PRO:CB	5:P:309:LYS:HZ1	2.27	0.48
2:C:780:GLU:HG3	2:C:781:LYS:H	1.79	0.48
2:C:736:ASP:OD1	2:C:747:ALA:HB1	2.13	0.48
3:D:1338:ALA:HB2	9:D:2268:HOH:O	2.14	0.48
1:L:213:GLN:O	1:L:217:ILE:HG13	2.13	0.48
3:N:411:THR:HG23	3:N:429:SER:OG	2.13	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:34:VAL:HG22	1:L:181:VAL:HG21	1.96	0.48
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.14	0.48
3:N:1034:GLN:O	3:N:1037:GLN:HG3	2.13	0.48
3:D:1390:LEU:HB2	9:D:9725:HOH:O	2.13	0.48
2:C:170:PRO:HG2	2:C:258:TYR:CD2	2.48	0.48
2:M:411:SER:HB2	2:M:452:ILE:HG23	1.95	0.48
2:C:569:VAL:HG23	2:C:635:THR:CG2	2.43	0.48
3:D:1072:ILE:O	3:D:1075:HIS:HD2	1.96	0.48
2:M:873:PRO:O	2:M:876:VAL:HG23	2.14	0.48
2:M:433:THR:HG21	2:M:488:ALA:HB1	1.95	0.48
2:M:333:ILE:O	2:M:465:GLY:HA3	2.13	0.48
2:C:838:LYS:HE2	2:C:997:LEU:HB2	1.96	0.48
1:A:102:LYS:HG3	1:A:139:ASN:CB	2.43	0.48
2:C:1060:ILE:CG2	2:C:1061:GLU:N	2.76	0.48
2:C:8:ARG:HH11	2:C:10:ARG:NH2	2.10	0.48
3:N:1267:ARG:HH12	3:N:1331:ASP:HB2	1.78	0.48
3:D:441:ARG:O	3:D:443:VAL:HG23	2.14	0.48
3:D:679:ARG:HB2	3:D:682:ASP:CG	2.34	0.48
3:N:416:ALA:H	3:N:417:PRO:CD	2.27	0.48
2:C:937:ASP:HB2	2:C:940:GLU:HB2	1.95	0.48
3:N:104:PHE:HE2	3:N:1448:THR:HA	1.78	0.48
2:C:12:VAL:HB	9:C:2276:HOH:O	2.12	0.48
3:N:1128:VAL:HG13	9:N:2064:HOH:O	2.13	0.48
1:B:123:MET:HA	9:B:326:HOH:O	2.13	0.48
3:D:818:ARG:HA	9:D:2451:HOH:O	2.13	0.48
5:P:398:ARG:HD2	9:P:837:HOH:O	2.13	0.48
3:N:1423:GLY:HA3	9:N:9510:HOH:O	2.13	0.48
3:D:1306:PRO:HB3	9:D:9535:HOH:O	2.12	0.48
2:C:791:ARG:HH11	2:C:791:ARG:HB3	1.79	0.48
2:M:302:VAL:O	2:M:306:THR:HG23	2.14	0.48
3:N:603:LEU:O	3:N:607:LEU:HD12	2.14	0.48
3:D:1431:THR:HB	9:D:9583:HOH:O	2.13	0.48
1:K:42:ARG:HH12	2:M:857:ASP:CB	2.15	0.48
3:N:187:LYS:HD2	9:N:2028:HOH:O	2.13	0.48
2:M:462:ASP:HA	9:M:1149:HOH:O	2.13	0.48
3:N:28:LYS:HB3	3:N:30:GLU:HG2	1.95	0.48
1:B:73:GLU:HB2	1:B:78:ILE:HD11	1.95	0.48
2:M:535:SER:HB2	2:M:537:LYS:HZ1	1.78	0.48
3:D:792:ILE:O	3:D:878:GLY:HA3	2.13	0.48
2:M:145:GLY:O	2:M:163:ILE:HG23	2.13	0.48
2:M:777:ILE:HG22	2:M:778:PHE:CD1	2.49	0.48
2:M:807:ARG:HE	2:M:809:GLY:H	1.61	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:477:LEU:HD22	3:D:492:ALA:HB1	1.96	0.48
3:N:1326:THR:HG23	9:N:9288:HOH:O	2.13	0.48
2:M:1109:VAL:HG22	9:N:2350:HOH:O	2.14	0.48
2:M:676:ILE:HG23	2:M:676:ILE:O	2.12	0.48
5:F:116:LEU:HB3	5:F:127:ILE:HD13	1.96	0.48
3:N:172:PRO:HB2	9:N:9445:HOH:O	2.14	0.48
3:D:868:TYR:H	3:D:873:LEU:HD11	1.78	0.48
3:N:672:ALA:HB2	5:P:420:ASP:OD1	2.13	0.48
3:N:1478:SER:OG	3:N:1480:PHE:HB3	2.13	0.48
2:M:480:THR:HG22	2:M:481:ASP:N	2.29	0.48
2:M:933:GLY:HA2	9:M:1676:HOH:O	2.13	0.48
3:D:251:PHE:HA	9:D:9540:HOH:O	2.14	0.48
3:D:117:ASP:HA	9:D:9152:HOH:O	2.13	0.48
5:P:417:LYS:HD2	9:P:544:HOH:O	2.14	0.48
5:P:136:LEU:HB3	5:P:185:GLN:NE2	2.28	0.48
3:N:1033:GLN:HE21	3:N:1036:ARG:NH1	1.87	0.48
5:P:291:ILE:HG23	5:P:304:VAL:HG21	1.94	0.48
4:E:70:THR:HG23	9:E:176:HOH:O	2.14	0.48
2:C:521:PRO:HB2	3:D:1055:VAL:CB	2.40	0.48
2:C:1051:GLU:CD	3:D:751:LEU:H	2.15	0.48
3:N:782:SER:O	3:N:786:ILE:HG13	2.13	0.48
1:B:211:LEU:O	1:B:214:ALA:HB3	2.13	0.48
1:B:45:LEU:HA	9:B:499:HOH:O	2.13	0.48
2:M:1090:LYS:HG2	2:M:1112:PHE:CZ	2.49	0.48
3:D:400:VAL:HA	3:D:442:ASN:O	2.14	0.48
1:A:18:ARG:NH1	1:A:88:ARG:CZ	2.76	0.48
3:N:208:PRO:HB2	3:N:395:VAL:HG13	1.95	0.48
3:D:1412:LYS:HB2	9:D:2423:HOH:O	2.14	0.48
4:E:23:VAL:HG21	4:E:65:MET:HG2	1.95	0.48
2:M:526:PRO:HG2	9:M:1590:HOH:O	2.13	0.48
2:C:551:GLU:HB2	3:D:1064:GLY:HA2	1.95	0.48
2:M:1000:MET:SD	2:M:1001:VAL:HG22	2.54	0.48
3:N:1223:ILE:HD12	9:N:9657:HOH:O	2.14	0.48
2:M:618:GLY:HA3	9:M:1262:HOH:O	2.12	0.48
3:N:1102:THR:HG22	3:N:1222:GLY:CA	2.44	0.48
3:N:1380:GLU:CG	3:N:1418:LYS:HD3	2.43	0.48
3:D:709:HIS:ND1	3:D:709:HIS:N	2.57	0.48
9:N:9211:HOH:O	4:O:50:THR:HG23	2.14	0.48
3:D:1047:LYS:NZ	3:D:1053:PHE:HA	2.29	0.48
3:D:422:ALA:H	3:D:427:VAL:CG1	2.26	0.48
3:N:543:LEU:HA	3:N:546:ARG:HG3	1.96	0.48
5:P:171:LYS:HG3	5:P:175:HIS:NE2	2.29	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:523:ASP:O	3:D:526:PRO:HG3	2.13	0.48
2:C:266:ARG:HA	2:C:288:ARG:HD2	1.96	0.48
2:C:360:LEU:HD23	9:C:9102:HOH:O	2.13	0.48
5:P:404:ALA:O	5:P:408:LEU:HB2	2.14	0.48
2:C:338:GLU:HB3	9:C:9652:HOH:O	2.13	0.48
5:F:363:GLU:CA	5:F:367:MET:HG2	2.44	0.48
1:A:106:PRO:HG3	1:A:133:GLU:O	2.14	0.48
3:D:76:CYS:HB2	9:D:2211:HOH:O	2.12	0.48
2:M:937:ASP:HB2	2:M:940:GLU:CG	2.40	0.48
5:P:85:LEU:HD11	9:P:455:HOH:O	2.12	0.48
3:D:1354:LYS:HG2	9:D:9191:HOH:O	2.14	0.48
1:B:84:GLU:CG	1:B:127:LEU:HD21	2.44	0.48
3:D:104:PHE:HB3	3:D:512:MET:SD	2.54	0.48
1:B:105:GLY:O	1:B:132:LEU:HD23	2.14	0.48
3:D:764:LEU:HB3	9:D:9495:HOH:O	2.14	0.48
3:D:169:TYR:HA	3:D:392:SER:HA	1.96	0.48
3:N:1059:SER:OG	3:N:1065:LEU:HA	2.14	0.48
2:C:425:PHE:HE2	3:D:1079:LYS:HA	1.77	0.48
1:B:80:LEU:HD23	3:D:867:ARG:NH1	2.28	0.48
2:C:963:LEU:HG	9:C:9244:HOH:O	2.13	0.48
3:D:1000:THR:HG23	3:D:1001:GLU:N	2.28	0.48
2:M:214:TYR:N	9:M:1191:HOH:O	2.41	0.48
1:K:185:ARG:O	1:K:185:ARG:HG3	2.13	0.48
2:M:798:GLY:H	2:M:827:VAL:CG1	2.27	0.48
3:N:1224:VAL:HG11	9:N:9352:HOH:O	2.13	0.48
3:D:592:THR:HG21	9:F:764:HOH:O	2.13	0.48
3:N:196:VAL:HG13	3:N:202:VAL:HG11	1.95	0.48
3:D:1366:LYS:O	3:D:1370:ILE:HG12	2.14	0.48
2:C:289:THR:HG22	2:C:290:LEU:H	1.79	0.48
5:F:217:ASN:O	5:F:221:ILE:HG13	2.14	0.48
3:D:131:LYS:HA	3:D:456:MET:HG3	1.94	0.48
3:D:131:LYS:HD2	5:F:83:GLN:NE2	2.29	0.48
2:C:704:HIS:O	2:C:828:ALA:HA	2.14	0.48
5:F:273:ARG:HB3	9:F:463:HOH:O	2.13	0.48
5:P:371:LEU:HB3	5:P:375:LEU:CD2	2.44	0.48
1:L:143:ARG:NH1	1:L:158:ILE:HG23	2.28	0.48
2:C:516:ARG:NH2	3:D:1068:LEU:HB3	2.29	0.48
5:F:249:ARG:HE	5:F:262:VAL:HG21	1.79	0.48
3:N:119:SER:CB	3:N:123:LEU:H	2.21	0.48
3:N:128:TYR:HB3	3:N:129:PHE:CD1	2.49	0.48
1:B:48:ILE:HG23	9:B:607:HOH:O	2.14	0.48
3:D:165:LYS:HB2	3:D:395:VAL:HG11	1.96	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:699:VAL:HB	3:D:716:PHE:O	2.14	0.48
2:C:603:VAL:HG21	2:C:643:VAL:HG11	1.96	0.48
3:D:639:LEU:N	3:D:639:LEU:HD12	2.28	0.48
2:C:816:LYS:O	2:C:819:VAL:HB	2.14	0.48
5:F:319:THR:HG22	5:F:320:PRO:HD2	1.96	0.48
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.43	0.48
5:P:240:THR:O	5:P:244:ARG:HG2	2.14	0.48
2:C:496:ILE:HD12	2:C:496:ILE:H	1.79	0.48
2:C:286:SER:O	2:C:299:LYS:HE3	2.13	0.48
3:D:973:GLN:HB3	9:D:9805:HOH:O	2.14	0.48
2:M:767:PRO:HB2	9:M:1853:HOH:O	2.11	0.48
2:M:148:PHE:CZ	2:M:281:LEU:HD13	2.46	0.47
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.44	0.47
3:N:177:ALA:HB2	9:N:9396:HOH:O	2.13	0.47
5:P:170:HIS:HD2	9:P:824:HOH:O	1.97	0.47
2:C:1092:LEU:HD21	3:D:1447:LEU:HD21	1.95	0.47
3:D:55:ASP:O	3:D:82:LYS:HA	2.14	0.47
2:C:1094:ALA:O	3:D:603:LEU:HD13	2.12	0.47
3:D:1393:GLN:HB2	3:D:1398:TRP:CE2	2.49	0.47
2:C:595:LEU:O	2:C:655:LEU:HG	2.14	0.47
3:D:800:LYS:HG2	9:D:9812:HOH:O	2.13	0.47
3:N:1020:LEU:HA	3:N:1023:MET:HE2	1.95	0.47
2:C:593:ALA:HB3	9:C:9552:HOH:O	2.13	0.47
2:M:939:ARG:HD3	2:M:982:PRO:CD	2.40	0.47
1:L:89:PHE:HD2	1:L:146:ARG:NH2	2.12	0.47
3:D:6:ARG:HB3	3:D:6:ARG:CZ	2.44	0.47
3:N:731:LEU:HB2	9:N:9694:HOH:O	2.14	0.47
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.95	0.47
1:B:186:LEU:HB3	1:B:192:LEU:HD13	1.96	0.47
3:N:1087:ARG:HD2	3:N:1234:THR:HA	1.95	0.47
2:C:22:GLN:NE2	2:C:121:MET:HE2	2.29	0.47
3:N:404:GLU:OE1	3:N:414:ARG:HD2	2.14	0.47
2:M:84:ARG:HG3	2:M:131:GLY:O	2.14	0.47
2:M:105:THR:HG22	9:M:1254:HOH:O	2.14	0.47
3:N:1196:THR:HG23	9:N:2567:HOH:O	2.13	0.47
2:C:748:GLU:HG3	9:C:9240:HOH:O	2.14	0.47
2:C:932:GLU:HG2	9:C:9998:HOH:O	2.14	0.47
3:D:1290:LEU:HB3	9:D:9881:HOH:O	2.13	0.47
3:D:1490:LYS:HG3	9:D:9515:HOH:O	2.14	0.47
5:P:218:GLN:O	5:P:222:ARG:HG3	2.14	0.47
2:C:1088:LEU:CD2	2:C:1092:LEU:HD12	2.44	0.47
2:C:777:ILE:HG22	2:C:778:PHE:HD1	1.79	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:284:ARG:HG2	2:C:285:LEU:N	2.29	0.47
2:C:308:ARG:HG2	9:C:9130:HOH:O	2.14	0.47
3:D:191:LEU:CD1	3:D:211:VAL:HG21	2.38	0.47
3:D:1478:SER:OG	3:D:1481:VAL:HG23	2.13	0.47
5:F:291:ILE:HG12	5:F:304:VAL:HG11	1.97	0.47
3:N:131:LYS:CG	3:N:568:ARG:HG2	2.44	0.47
2:C:714:ASP:HB3	9:C:9069:HOH:O	2.14	0.47
1:A:42:ARG:HG2	1:A:42:ARG:HH11	1.79	0.47
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.49	0.47
2:C:881:ASN:N	2:C:881:ASN:ND2	2.61	0.47
2:C:176:VAL:C	2:C:178:PRO:HD3	2.34	0.47
2:M:569:VAL:HG11	2:M:996:LYS:HZ2	1.78	0.47
9:N:9977:HOH:O	5:P:258:ILE:HG13	2.14	0.47
4:O:70:THR:CG2	4:O:72:ARG:HE	2.26	0.47
2:M:703:ILE:HG22	9:M:1341:HOH:O	2.14	0.47
3:D:783:ARG:CZ	3:D:1029:ARG:HG2	2.43	0.47
3:D:1164:ARG:NH1	3:D:1164:ARG:HG3	2.27	0.47
2:M:644:VAL:HG22	2:M:647:GLN:OE1	2.14	0.47
1:A:121:GLU:HG2	1:A:123:MET:SD	2.54	0.47
2:M:75:GLU:HA	9:M:1533:HOH:O	2.13	0.47
2:M:953:VAL:HA	2:M:965:GLU:OE1	2.14	0.47
3:N:459:GLU:HG2	9:N:9680:HOH:O	2.14	0.47
3:N:1285:GLU:H	3:N:1285:GLU:CD	2.18	0.47
2:M:1035:MET:HB2	9:M:1611:HOH:O	2.14	0.47
3:N:893:GLU:O	3:N:896:ALA:HB3	2.15	0.47
3:D:1132:LEU:HB2	9:D:9899:HOH:O	2.13	0.47
3:N:550:ARG:HD2	3:N:573:MET:HB3	1.97	0.47
3:N:565:ILE:HG23	5:P:83:GLN:NE2	2.29	0.47
3:N:573:MET:HE3	5:P:210:LEU:HD22	1.95	0.47
3:N:191:LEU:HD22	3:N:195:VAL:CG2	2.43	0.47
2:C:355:VAL:CG2	2:C:372:LEU:HG	2.44	0.47
2:M:182:VAL:CG1	2:M:193:LEU:HD13	2.44	0.47
3:N:1403:LEU:O	3:N:1407:LEU:HB2	2.14	0.47
5:F:264:MET:O	5:F:268:ILE:HD12	2.14	0.47
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.77	0.47
3:N:907:GLU:O	3:N:911:LEU:HD13	2.14	0.47
2:M:625:LEU:O	2:M:627:ARG:N	2.46	0.47
2:M:625:LEU:CD1	2:M:641:PRO:HG3	2.43	0.47
3:N:131:LYS:HD2	9:P:609:HOH:O	2.13	0.47
3:D:1031:ASN:O	3:D:1034:GLN:HB2	2.14	0.47
3:D:190:GLU:HG3	3:D:210:ARG:CD	2.44	0.47
3:N:1432:LYS:CD	3:N:1433:SER:H	2.27	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:9:PRO:HG2	1:L:224:TYR:CD2	2.48	0.47
1:L:191:ASP:O	1:L:192:LEU:HG	2.14	0.47
2:C:443:THR:CG2	2:C:449:ILE:HG13	2.44	0.47
3:D:1087:ARG:HG2	3:D:1234:THR:O	2.15	0.47
3:D:1503:VAL:HG11	9:D:9429:HOH:O	2.13	0.47
5:F:392:VAL:HG12	5:F:396:ARG:HB2	1.96	0.47
3:N:488:ARG:HH11	3:N:488:ARG:HG3	1.79	0.47
2:M:742:VAL:HG12	2:M:743:VAL:N	2.29	0.47
1:L:104:GLU:OE1	1:L:137:ARG:HA	2.13	0.47
5:P:399:GLN:HG2	9:P:545:HOH:O	2.14	0.47
3:N:63:TYR:HB3	3:N:68:PHE:CE1	2.50	0.47
5:P:91:VAL:HG11	9:P:477:HOH:O	2.13	0.47
3:D:947:ILE:O	3:D:947:ILE:HD12	2.14	0.47
3:D:101:HIS:NE2	3:D:582:LEU:HD22	2.30	0.47
3:D:17:LYS:HA	3:D:20:SER:HB2	1.96	0.47
3:D:46:ASP:HB3	3:D:49:ILE:HG13	1.96	0.47
2:C:262:ALA:O	2:C:264:PRO:O	2.33	0.47
5:P:122:LEU:HD21	5:P:126:LEU:HB3	1.97	0.47
2:M:578:VAL:N	2:M:671:ASN:HD21	2.12	0.47
2:M:140:ILE:CG2	2:M:333:ILE:HG13	2.45	0.47
2:M:464:LEU:HA	2:M:464:LEU:HD12	1.70	0.47
3:N:863:VAL:HG23	9:N:9189:HOH:O	2.14	0.47
3:N:102:ILE:HD11	9:N:2283:HOH:O	2.13	0.47
3:N:129:PHE:O	3:N:572:ARG:HG2	2.14	0.47
3:N:1109:GLU:HG2	3:N:1201:CYS:CA	2.40	0.47
3:N:1209:LEU:HG	3:N:1219:GLU:OE1	2.14	0.47
2:C:714:ASP:HB2	9:C:9031:HOH:O	2.13	0.47
2:C:645:VAL:HA	9:C:9535:HOH:O	2.14	0.47
3:N:928:ALA:O	3:N:931:LEU:HB2	2.14	0.47
3:N:160:GLU:HG3	3:N:165:LYS:O	2.15	0.47
3:D:1331:ASP:OD1	3:D:1333:HIS:HB2	2.13	0.47
2:C:517:ARG:HH11	2:C:522:VAL:HG11	1.75	0.47
3:N:962:GLN:O	3:N:966:GLU:HG3	2.13	0.47
3:N:886:VAL:HG13	3:N:930:LEU:HD11	1.96	0.47
3:D:729:HIS:ND1	3:D:730:PRO:N	2.62	0.47
3:N:844:ALA:O	3:N:867:ARG:HB3	2.13	0.47
3:D:868:TYR:CG	3:D:869:MET:N	2.82	0.47
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.77	0.47
3:N:134:VAL:HG13	9:N:9888:HOH:O	2.13	0.47
3:N:1066:THR:CG2	3:N:1069:GLU:HG3	2.45	0.47
2:M:115:LEU:CD1	2:M:373:VAL:HG11	2.44	0.47
1:A:94:LEU:HD11	1:A:119:ASP:HB3	1.97	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.80	0.47
3:D:847:ASP:O	3:D:850:LEU:HG	2.14	0.47
3:D:243:ALA:HB1	9:D:9815:HOH:O	2.13	0.47
2:C:789:SER:O	2:C:791:ARG:HG2	2.14	0.47
3:D:1382:THR:HG21	3:D:1418:LYS:HE3	1.96	0.47
3:N:71:LYS:HE3	9:N:2078:HOH:O	2.15	0.47
1:A:216:GLU:O	1:A:220:GLU:HG3	2.15	0.47
3:N:613:ARG:NH2	3:N:617:ASN:HD21	2.12	0.47
3:N:442:ASN:HB2	9:N:9986:HOH:O	2.13	0.47
2:C:774:LEU:HB2	9:C:9721:HOH:O	2.13	0.47
5:F:208:SER:HA	9:F:465:HOH:O	2.14	0.47
1:A:150:TYR:HE1	2:C:696:LYS:HA	1.80	0.47
3:N:55:ASP:HA	3:N:82:LYS:CG	2.36	0.47
2:C:585:GLU:N	9:C:9558:HOH:O	2.48	0.47
2:M:579:VAL:HA	2:M:901:TYR:O	2.14	0.47
2:M:328:LEU:HD22	2:M:433:THR:O	2.15	0.47
2:M:285:LEU:HD12	2:M:288:ARG:O	2.15	0.47
2:M:1111:ILE:HG12	2:M:1112:PHE:HD1	1.79	0.47
2:M:114:PHE:HD2	2:M:114:PHE:O	1.97	0.47
3:N:112:ILE:HD13	3:N:461:ILE:HG21	1.96	0.47
4:O:82:GLU:O	4:O:85:LEU:HD22	2.14	0.47
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.96	0.47
3:D:1302:GLU:OE2	3:D:1304:LYS:HG3	2.15	0.47
1:L:80:LEU:HD11	3:N:842:VAL:HB	1.96	0.47
2:M:350:ARG:HG3	9:M:2249:HOH:O	2.15	0.47
2:M:256:TYR:HD1	9:M:1213:HOH:O	1.98	0.47
3:D:33:ASN:HB3	3:D:35:ARG:NH1	2.28	0.47
3:N:1302:GLU:HB2	9:N:2060:HOH:O	2.15	0.47
2:C:286:SER:HB3	2:C:299:LYS:CE	2.45	0.47
3:D:1249:ALA:HB2	9:D:9479:HOH:O	2.14	0.47
2:C:617:ASP:HB3	9:C:9258:HOH:O	2.14	0.47
3:D:1148:VAL:HG11	3:D:1203:LYS:HE3	1.95	0.47
2:C:166:PRO:HD2	9:C:9424:HOH:O	2.15	0.47
2:C:133:ASP:N	2:C:133:ASP:OD2	2.46	0.47
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.96	0.47
3:D:112:ILE:O	3:D:112:ILE:HD12	2.14	0.47
3:D:119:SER:H	3:D:123:LEU:CB	2.26	0.47
5:P:166:LEU:HA	9:P:824:HOH:O	2.15	0.47
2:C:724:ARG:HG3	2:C:740:GLU:HA	1.95	0.47
2:C:300:ASP:HA	9:C:9351:HOH:O	2.14	0.47
1:A:182:GLU:O	1:A:194:LYS:HB3	2.15	0.47
5:F:404:ALA:HA	9:F:728:HOH:O	2.15	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:874:LEU:HD23	3:N:1023:MET:SD	2.54	0.47
2:M:902:ILE:O	2:M:904:PRO:HD3	2.15	0.47
2:C:902:ILE:HG23	9:C:9373:HOH:O	2.15	0.47
2:M:288:ARG:CZ	2:M:288:ARG:HB2	2.43	0.47
1:L:58:ILE:HG23	9:L:2434:HOH:O	2.15	0.47
1:A:25:LEU:C	1:A:25:LEU:HD23	2.35	0.47
3:N:483:HIS:N	3:N:483:HIS:ND1	2.61	0.47
1:L:127:LEU:HD12	1:L:128:HIS:N	2.29	0.47
3:N:1123:PHE:HE2	3:N:1184:GLN:HA	1.80	0.47
3:N:586:ARG:NE	3:N:586:ARG:HA	2.29	0.47
9:N:9488:HOH:O	5:P:259:ARG:HD2	2.15	0.47
5:F:287:THR:HG22	5:F:290:GLU:OE1	2.14	0.47
3:D:723:GLY:HA3	9:D:2200:HOH:O	2.15	0.47
3:D:1148:VAL:HG21	3:D:1203:LYS:HA	1.95	0.47
1:L:150:TYR:CD2	3:N:857:ILE:HG13	2.50	0.47
2:C:98:LEU:HD11	9:C:9172:HOH:O	2.13	0.47
2:M:726:ILE:HG22	2:M:726:ILE:O	2.15	0.47
2:M:697:ARG:HB2	9:M:1324:HOH:O	2.13	0.47
3:N:702:LEU:N	9:N:9949:HOH:O	2.48	0.47
3:D:1102:THR:HG22	3:D:1222:GLY:HA2	1.95	0.47
2:C:983:ILE:HG23	3:D:944:THR:O	2.14	0.47
2:C:358:ARG:NH2	2:C:374:ASN:HB3	2.27	0.47
3:D:41:ARG:CD	3:D:42:ASP:H	2.27	0.47
3:D:601:ARG:HG2	3:D:606:ILE:CD1	2.42	0.47
3:D:1465:ASN:HD21	3:D:1470:ARG:HH11	1.60	0.47
2:C:775:ARG:HE	2:C:782:ALA:CB	2.28	0.47
2:C:332:ARG:HE	2:C:464:LEU:CD1	2.25	0.47
3:D:560:GLN:CD	5:F:218:GLN:HE22	2.18	0.47
3:N:146:PRO:HG2	9:N:9420:HOH:O	2.14	0.47
3:D:951:ILE:HD13	3:D:951:ILE:HA	1.69	0.47
2:C:949:LYS:HD2	3:D:796:ARG:HH21	1.79	0.47
3:N:695:ILE:HG13	9:N:9171:HOH:O	2.14	0.47
1:B:164:ALA:HB2	9:B:316:HOH:O	2.15	0.47
2:C:137:VAL:CG2	2:C:391:LEU:HG	2.44	0.47
2:M:580:MET:HB2	2:M:902:ILE:CD1	2.44	0.47
2:C:585:GLU:CD	2:C:585:GLU:H	2.17	0.47
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.29	0.47
2:M:557:ARG:NE	2:M:879:ARG:HG2	2.30	0.47
2:C:820:ARG:HH11	2:C:820:ARG:HG2	1.79	0.47
2:M:165:LEU:HA	2:M:166:PRO:O	2.15	0.47
1:B:23:PHE:CE2	1:B:199:ILE:HD12	2.50	0.47
2:M:674:VAL:HG23	2:M:869:VAL:O	2.15	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:161:LEU:HD11	3:N:452:ILE:HD13	1.96	0.47
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.96	0.47
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.29	0.47
1:K:54:THR:HG23	1:K:156:HIS:CE1	2.50	0.47
1:L:28:LEU:HB3	9:L:1824:HOH:O	2.14	0.47
5:F:277:GLN:HA	9:F:518:HOH:O	2.15	0.47
5:P:264:MET:HB3	9:P:696:HOH:O	2.15	0.47
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.47
2:C:602:GLU:HA	2:C:647:GLN:O	2.15	0.47
3:N:1267:ARG:NH2	3:N:1271:LYS:HD2	2.29	0.47
2:C:164:PRO:HB2	9:C:9863:HOH:O	2.15	0.47
3:N:969:ARG:HG3	9:N:9204:HOH:O	2.15	0.47
1:B:175:ARG:HA	9:B:363:HOH:O	2.14	0.47
3:D:633:VAL:C	3:D:635:PRO:HD3	2.35	0.47
1:K:29:GLU:HB2	1:K:32:PHE:CE1	2.49	0.47
1:L:99:LEU:HD11	9:L:4796:HOH:O	2.14	0.47
2:C:1034:GLU:HA	2:C:1037:VAL:CG2	2.44	0.47
4:E:28:GLN:O	4:E:31:LEU:HG	2.15	0.47
3:D:926:LYS:HD3	9:D:9733:HOH:O	2.13	0.47
2:M:1001:VAL:HG12	9:M:2086:HOH:O	2.14	0.47
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.45	0.47
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.44	0.47
3:N:534:ARG:HA	9:P:700:HOH:O	2.14	0.47
2:C:209:ARG:O	2:C:213:ALA:HB2	2.14	0.47
2:M:816:LYS:O	2:M:819:VAL:HB	2.15	0.47
4:E:17:TYR:O	4:E:21:VAL:HG23	2.15	0.47
2:M:175:GLU:HB3	2:M:183:SER:OG	2.14	0.47
5:F:110:MET:HG3	9:F:919:HOH:O	2.14	0.47
3:N:556:LYS:NZ	9:N:2200:HOH:O	2.47	0.47
5:P:356:LYS:HE3	9:P:529:HOH:O	2.15	0.47
3:N:994:GLN:HG2	9:N:9836:HOH:O	2.14	0.47
3:N:621:LYS:HB2	9:N:9549:HOH:O	2.14	0.47
1:B:19:GLU:O	1:B:200:TRP:HA	2.14	0.47
3:D:799:LYS:H	3:D:826:PRO:HG2	1.80	0.47
3:D:1225:ALA:HA	3:D:1367:HIS:ND1	2.30	0.47
3:D:607:LEU:HA	3:D:613:ARG:HB2	1.97	0.47
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.95	0.47
1:L:41:ARG:HG2	9:L:1814:HOH:O	2.14	0.47
2:C:41:ASN:HD22	2:C:41:ASN:H	1.63	0.47
2:M:22:GLN:CD	2:M:336:VAL:HG21	2.35	0.47
1:B:13:VAL:HG13	1:B:23:PHE:CD1	2.50	0.47
3:N:116:LEU:HD13	3:N:118:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1231:GLU:HG2	3:N:1232:PRO:N	2.29	0.47
3:N:1333:HIS:O	3:N:1336:LEU:HB3	2.14	0.47
2:M:941:VAL:O	2:M:944:LEU:HB2	2.15	0.47
5:P:419:ARG:O	5:P:421:PHE:N	2.48	0.47
1:L:100:LEU:HB2	1:L:115:LEU:HD21	1.96	0.47
5:P:278:LEU:HB3	5:P:286:PRO:CG	2.43	0.47
2:C:1004:LYS:O	2:C:1006:HIS:ND1	2.48	0.47
2:C:7:GLY:HA3	2:C:907:ASP:O	2.15	0.47
2:M:20:GLU:HB3	9:M:1513:HOH:O	2.15	0.47
3:D:1258:ARG:HG2	9:D:9685:HOH:O	2.15	0.47
1:B:137:ARG:HG2	9:B:322:HOH:O	2.15	0.47
3:N:629:SER:OG	3:N:726:ILE:HG13	2.14	0.47
3:D:1370:ILE:HG22	9:D:9744:HOH:O	2.14	0.47
1:L:39:PRO:O	1:L:43:ILE:HG12	2.15	0.47
5:F:372:ARG:HB3	9:F:706:HOH:O	2.15	0.47
3:D:475:LYS:HG3	9:D:2336:HOH:O	2.15	0.47
3:D:555:LYS:HA	3:D:558:LEU:HD12	1.97	0.47
3:D:565:ILE:HD12	3:D:565:ILE:N	2.29	0.47
2:M:173:ASP:O	2:M:184:MET:HA	2.15	0.47
2:M:172:ILE:HA	2:M:185:LYS:O	2.14	0.47
1:L:153:ALA:HB1	1:L:166:PRO:HB2	1.97	0.47
2:M:332:ARG:CZ	2:M:464:LEU:HG	2.45	0.47
3:N:832:ARG:HB3	3:N:833:GLU:OE1	2.14	0.47
3:D:399:ARG:NH1	9:D:9441:HOH:O	2.47	0.47
2:C:1018:GLN:HE21	2:C:1060:ILE:HD11	1.78	0.47
1:A:41:ARG:HH12	1:A:177:VAL:C	2.19	0.47
2:M:1092:LEU:HD13	2:M:1099:VAL:CG2	2.41	0.47
3:N:417:PRO:HB3	9:N:9679:HOH:O	2.14	0.47
5:P:416:ARG:HB2	9:P:805:HOH:O	2.14	0.47
3:D:843:PHE:CE1	3:D:864:VAL:HG11	2.50	0.47
2:C:537:LYS:H	2:C:537:LYS:CD	2.27	0.47
1:B:132:LEU:HD13	1:B:138:LEU:HD22	1.96	0.47
2:M:770:GLU:CG	3:N:65:ARG:HH22	2.28	0.47
2:C:893:ALA:HB2	2:C:918:LEU:HD12	1.97	0.47
2:M:998:TYR:CZ	2:M:1000:MET:HA	2.50	0.47
3:N:1288:GLU:HG2	3:N:1289:LYS:HG3	1.96	0.47
1:A:137:ARG:CZ	1:A:137:ARG:HB3	2.44	0.47
1:L:137:ARG:HD3	9:L:8082:HOH:O	2.13	0.47
3:N:188:GLY:HA3	9:N:9365:HOH:O	2.15	0.47
2:M:961:GLU:HA	2:M:961:GLU:OE2	2.15	0.47
3:D:820:GLU:HB2	3:D:836:VAL:HG11	1.95	0.47
1:L:18:ARG:O	1:L:207:PRO:HD3	2.15	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:E:40:LEU:HD13	9:E:136:HOH:O	2.15	0.47
2:C:367:LEU:HG	9:C:9562:HOH:O	2.14	0.47
3:N:447:VAL:HG11	9:N:9570:HOH:O	2.14	0.47
2:C:679:PHE:HB3	9:C:9083:HOH:O	2.15	0.47
3:D:82:LYS:O	3:D:85:VAL:HG22	2.15	0.47
2:C:264:PRO:HB3	2:C:289:THR:HB	1.95	0.47
3:D:186:VAL:HG13	3:D:187:LYS:N	2.30	0.47
5:F:393:THR:O	5:F:397:ILE:HG13	2.15	0.47
3:D:1198:TYR:OH	3:D:1432:LYS:HG2	2.15	0.47
5:F:302:LYS:O	5:F:306:GLU:HB2	2.15	0.47
2:C:672:VAL:CG2	2:C:868:ASP:HB2	2.41	0.47
1:B:161:ARG:HB2	9:B:316:HOH:O	2.15	0.47
3:N:953:ASP:O	3:N:955:VAL:HG23	2.14	0.47
2:M:875:GLY:HA2	2:M:879:ARG:HH11	1.80	0.47
1:K:63:HIS:HD2	1:K:65:PHE:N	2.13	0.47
2:M:438:ILE:HD11	2:M:467:ILE:HD12	1.97	0.47
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.49	0.47
2:M:274:ARG:CB	2:M:285:LEU:HD13	2.42	0.47
2:M:134:ARG:N	9:M:1509:HOH:O	2.47	0.47
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.96	0.47
3:D:527:MET:CE	5:F:258:ILE:HD11	2.45	0.47
3:N:1101:VAL:HG12	3:N:1428:ALA:HB2	1.97	0.47
1:A:198:ARG:HB2	1:A:200:TRP:CZ3	2.50	0.47
5:P:337:HIS:CD2	5:P:337:HIS:N	2.82	0.47
2:C:129:ILE:HG22	2:C:130:ASN:ND2	2.30	0.47
3:N:973:GLN:HG2	9:N:9757:HOH:O	2.15	0.47
3:D:967:ALA:O	3:D:995:LEU:HD21	2.15	0.47
4:O:38:THR:OG1	4:O:40:LEU:HD12	2.15	0.47
2:C:721:ARG:O	2:C:758:ARG:HA	2.15	0.47
2:M:69:LEU:HD12	2:M:97:ARG:HB3	1.96	0.47
2:M:3:ILE:HD13	2:M:900:ARG:HB2	1.96	0.47
3:D:701:LEU:HD23	9:D:9229:HOH:O	2.15	0.47
2:M:480:THR:HG22	2:M:481:ASP:H	1.80	0.47
5:F:110:MET:HG2	5:F:114:LYS:HE3	1.96	0.47
3:N:827:ILE:O	3:N:837:GLY:HA3	2.15	0.47
3:N:490:ALA:HA	9:N:9898:HOH:O	2.15	0.47
1:B:205:VAL:HG11	9:B:515:HOH:O	2.15	0.47
5:P:115:LYS:O	5:P:119:ILE:HG13	2.15	0.46
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.80	0.46
3:D:93:ILE:HG12	3:D:548:ILE:CD1	2.43	0.46
2:M:262:ALA:O	2:M:264:PRO:O	2.33	0.46
2:C:218:VAL:HA	2:C:221:LEU:HD23	1.96	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:93:LEU:HD22	5:F:98:GLU:CB	2.40	0.46
3:D:131:LYS:HE3	9:F:426:HOH:O	2.15	0.46
2:C:708:TYR:HE2	2:C:793:PRO:HD2	1.80	0.46
2:C:338:GLU:CA	2:C:341:THR:HG22	2.44	0.46
2:M:579:VAL:HB	2:M:890:LEU:CD2	2.45	0.46
3:N:911:LEU:O	3:N:915:VAL:HG23	2.14	0.46
3:N:1481:VAL:HG11	4:O:18:ARG:CA	2.42	0.46
3:N:828:LYS:HB3	9:N:9189:HOH:O	2.14	0.46
3:D:630:VAL:O	3:D:726:ILE:HG13	2.14	0.46
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.97	0.46
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.75	0.46
3:N:166:GLN:HG2	3:N:207:PHE:CG	2.50	0.46
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.50	0.46
2:C:603:VAL:HG21	2:C:643:VAL:CG1	2.44	0.46
4:E:31:LEU:HD12	4:E:32:ARG:HD3	1.97	0.46
3:D:1408:ILE:HB	9:D:2476:HOH:O	2.14	0.46
3:N:6:ARG:HH11	3:N:6:ARG:HB3	1.80	0.46
1:K:227:ASN:N	1:K:227:ASN:ND2	2.62	0.46
2:M:242:LEU:HA	9:M:1222:HOH:O	2.15	0.46
3:N:637:LEU:HD11	3:N:641:GLN:HB2	1.97	0.46
1:A:124:ASN:ND2	1:A:127:LEU:HD23	2.30	0.46
2:M:301:GLU:HG2	9:M:1706:HOH:O	2.14	0.46
2:C:620:LEU:HD13	2:C:620:LEU:N	2.30	0.46
3:D:53:ILE:O	3:D:53:ILE:HG12	2.14	0.46
3:D:173:PRO:HG3	9:D:9980:HOH:O	2.14	0.46
1:B:160:ASP:HB3	9:B:469:HOH:O	2.15	0.46
3:D:112:ILE:O	3:D:116:LEU:HB2	2.15	0.46
2:M:218:VAL:HG22	2:M:221:LEU:HD23	1.96	0.46
2:M:232:GLU:O	2:M:235:LEU:HB2	2.15	0.46
1:B:36:LEU:O	1:B:39:PRO:HD2	2.15	0.46
2:C:979:THR:CG2	2:C:981:GLU:HB2	2.45	0.46
5:P:166:LEU:HD23	9:P:824:HOH:O	2.13	0.46
2:C:874:LEU:HD21	3:D:787:LEU:CD2	2.32	0.46
5:F:93:LEU:HG	5:F:190:ALA:HB3	1.97	0.46
3:N:836:VAL:HG12	9:N:9623:HOH:O	2.14	0.46
2:C:359:MET:HB3	9:C:9102:HOH:O	2.14	0.46
9:M:1991:HOH:O	5:P:373:LYS:HD2	2.15	0.46
2:C:557:ARG:CD	2:C:879:ARG:HG2	2.45	0.46
5:P:363:GLU:HA	5:P:367:MET:HE3	1.97	0.46
5:F:393:THR:HG21	9:F:773:HOH:O	2.14	0.46
3:D:1394:VAL:HG21	3:D:1397:LYS:NZ	2.30	0.46
2:C:571:LEU:HD13	2:C:669:GLY:H	1.79	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:18:ILE:HD12	3:N:518:PRO:CG	2.46	0.46
1:B:89:PHE:CD1	1:B:120:VAL:HG13	2.50	0.46
2:C:516:ARG:CD	3:D:1068:LEU:HD13	2.45	0.46
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.97	0.46
2:M:135:VAL:CG2	2:M:395:LYS:HG3	2.45	0.46
2:M:19:THR:HG21	2:M:125:GLY:HA3	1.97	0.46
3:N:1114:THR:HG22	3:N:1195:GLN:HB3	1.96	0.46
2:M:690:ILE:CG2	2:M:852:ILE:HG13	2.45	0.46
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.73	0.46
3:N:1494:ALA:HB1	4:O:88:GLU:OE2	2.15	0.46
2:C:91:GLN:CD	2:C:117:HIS:HB3	2.36	0.46
3:D:531:ASP:C	3:D:533:GLY:N	2.67	0.46
3:D:633:VAL:HG22	3:D:635:PRO:HG3	1.97	0.46
3:N:1197:ARG:HB3	3:N:1396:GLU:CD	2.35	0.46
3:N:7:LYS:HB3	3:N:1458:GLU:OE1	2.15	0.46
3:N:104:PHE:CE2	3:N:1448:THR:HG23	2.50	0.46
3:D:668:PRO:HD2	3:D:672:ALA:CB	2.45	0.46
2:M:810:ASP:HA	2:M:811:PRO:HD3	1.79	0.46
3:N:548:ILE:HG23	9:N:2135:HOH:O	2.15	0.46
4:O:36:LYS:HD3	4:O:36:LYS:HA	1.63	0.46
3:N:1153:VAL:HG12	3:N:1155:VAL:CG2	2.46	0.46
3:D:586:ARG:HD2	9:D:2328:HOH:O	2.15	0.46
2:M:636:ALA:HB3	9:M:1680:HOH:O	2.14	0.46
2:C:154:ARG:HG2	9:C:9795:HOH:O	2.14	0.46
3:D:424:GLY:HA2	3:D:436:GLU:HA	1.97	0.46
3:N:427:VAL:HG21	3:N:435:VAL:HB	1.97	0.46
3:N:400:VAL:HA	3:N:442:ASN:O	2.15	0.46
2:M:1052:MET:HE1	9:M:1321:HOH:O	2.15	0.46
3:D:534:ARG:HG2	9:D:9708:HOH:O	2.15	0.46
3:D:96:ALA:HB3	9:D:9846:HOH:O	2.14	0.46
5:P:79:ASP:OD1	5:P:80:PRO:HD3	2.15	0.46
2:C:889:HIS:CE1	3:D:951:ILE:H	2.32	0.46
2:M:176:VAL:HG12	9:M:1933:HOH:O	2.15	0.46
2:C:126:SER:HB2	2:C:407:LYS:HE3	1.96	0.46
3:D:1065:LEU:HD11	3:D:1070:TYR:HA	1.97	0.46
2:M:1043:TYR:C	2:M:1045:ALA:H	2.18	0.46
2:M:753:ASP:N	2:M:791:ARG:HH12	2.12	0.46
2:M:690:ILE:HG23	2:M:852:ILE:HA	1.96	0.46
2:C:480:THR:HG22	2:C:482:GLU:N	2.29	0.46
3:N:1119:SER:HA	3:N:1186:VAL:O	2.14	0.46
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.30	0.46
3:N:969:ARG:HD2	9:N:9652:HOH:O	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:783:ARG:HG2	3:D:783:ARG:HH11	1.80	0.46
4:O:51:LEU:HD23	9:O:6827:HOH:O	2.15	0.46
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.84	0.46
3:D:864:VAL:HG12	3:D:865:THR:N	2.30	0.46
3:N:7:LYS:HD3	3:N:1456:LYS:HZ3	1.81	0.46
3:N:1000:THR:O	3:N:1003:VAL:HG22	2.15	0.46
2:M:1091:GLU:O	2:M:1094:ALA:HB3	2.16	0.46
1:L:70:GLY:HA2	9:L:3618:HOH:O	2.15	0.46
5:F:117:SER:OG	5:F:124:PRO:HG3	2.15	0.46
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.96	0.46
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.96	0.46
1:K:64:GLU:HB2	9:K:7447:HOH:O	2.14	0.46
3:D:162:ARG:HE	3:D:434:ARG:NE	2.13	0.46
3:N:573:MET:HE2	9:N:9975:HOH:O	2.15	0.46
3:N:423:ASP:HB2	5:P:178:ARG:CD	2.42	0.46
2:C:437:ARG:HG2	2:C:467:ILE:O	2.15	0.46
5:F:192:LEU:O	5:F:192:LEU:HD23	2.15	0.46
2:M:164:PRO:HG2	9:M:1159:HOH:O	2.16	0.46
1:K:94:LEU:HA	9:K:6293:HOH:O	2.14	0.46
2:C:668:LEU:O	2:C:993:PHE:CZ	2.68	0.46
5:F:88:ILE:HB	5:F:193:ARG:NH1	2.31	0.46
2:M:577:PRO:HD2	2:M:580:MET:HG2	1.98	0.46
2:M:26:TYR:CE2	2:M:30:LEU:HD21	2.51	0.46
2:C:1071:ILE:HD13	3:D:655:PRO:HB3	1.97	0.46
3:D:637:LEU:HD11	3:D:642:CYS:N	2.31	0.46
2:M:1016:ILE:HG21	9:P:709:HOH:O	2.15	0.46
5:P:317:LEU:O	5:P:330:GLY:N	2.49	0.46
3:N:468:LEU:HD21	9:N:9382:HOH:O	2.15	0.46
2:M:694:LEU:CD1	2:M:868:ASP:HB3	2.46	0.46
4:E:63:TRP:O	4:E:67:GLU:HG3	2.15	0.46
3:D:1278:ASP:HB2	3:D:1318:TYR:HE1	1.80	0.46
3:D:111:LYS:HZ1	3:D:1452:ILE:HG21	1.80	0.46
3:N:417:PRO:HA	5:P:168:LYS:NZ	2.30	0.46
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.63	0.46
2:M:56:GLU:HB2	2:M:64:LEU:HD23	1.97	0.46
1:A:23:PHE:CE1	1:A:211:LEU:HD23	2.50	0.46
1:A:91:ASN:O	1:A:94:LEU:HD12	2.14	0.46
5:F:205:ARG:HG3	5:F:251:ILE:HD13	1.97	0.46
3:N:861:GLN:N	3:N:861:GLN:CD	2.69	0.46
5:P:399:GLN:HB3	9:P:437:HOH:O	2.16	0.46
3:D:416:ALA:H	3:D:417:PRO:CD	2.28	0.46
1:A:108:GLU:HB2	9:A:426:HOH:O	2.14	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:1:MET:O	1:B:6:LEU:HD13	2.15	0.46
1:A:227:ASN:H	1:A:227:ASN:ND2	2.13	0.46
3:N:792:ILE:O	3:N:878:GLY:HA3	2.15	0.46
2:M:218:VAL:HG22	2:M:221:LEU:CD2	2.46	0.46
2:M:305:PRO:CB	2:M:308:ARG:HH21	2.27	0.46
3:N:424:GLY:HA2	3:N:436:GLU:HA	1.96	0.46
3:N:440:VAL:HG21	9:N:2386:HOH:O	2.15	0.46
3:D:474:GLU:O	3:D:478:LEU:HG	2.15	0.46
2:M:1075:ASP:OD1	4:O:28:GLN:HA	2.16	0.46
2:C:852:ILE:HD12	2:C:852:ILE:N	2.30	0.46
3:D:1166:LEU:CD1	3:D:1171:VAL:HG22	2.45	0.46
2:C:126:SER:CB	2:C:395:LYS:HD2	2.46	0.46
1:A:222:LEU:HD12	1:B:215:VAL:CB	2.43	0.46
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.45	0.46
2:M:1034:GLU:HA	2:M:1037:VAL:HG23	1.98	0.46
1:L:19:GLU:HG3	1:L:201:THR:O	2.15	0.46
3:D:648:MET:HG2	3:D:652:LEU:HD22	1.98	0.46
3:D:1235:GLN:C	3:D:1359:GLN:HE22	2.18	0.46
3:N:1123:PHE:CD1	3:N:1134:LEU:HA	2.51	0.46
1:L:185:ARG:HG3	1:L:190:THR:CG2	2.44	0.46
2:C:410:ILE:HD12	2:C:410:ILE:N	2.31	0.46
3:N:416:ALA:HB3	3:N:417:PRO:HD3	1.97	0.46
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.16	0.46
3:N:136:ASP:HB2	3:N:137:PRO:HD3	1.96	0.46
3:D:1007:VAL:CG2	3:D:1008:PHE:N	2.79	0.46
3:D:1496:GLU:HA	3:D:1499:ARG:NE	2.31	0.46
3:D:897:TRP:CZ2	3:D:902:LEU:HD21	2.50	0.46
1:K:227:ASN:HD22	1:K:227:ASN:H	1.62	0.46
1:A:211:LEU:HD12	1:A:211:LEU:O	2.15	0.46
2:M:564:MET:HG3	2:M:997:LEU:HD11	1.97	0.46
3:N:600:LEU:HD23	3:N:600:LEU:N	2.31	0.46
9:C:9488:HOH:O	3:D:853:VAL:HG12	2.14	0.46
3:D:1490:LYS:HA	9:D:9819:HOH:O	2.15	0.46
1:L:211:LEU:O	1:L:214:ALA:HB3	2.15	0.46
2:C:547:ILE:HB	2:C:550:LEU:HD13	1.96	0.46
2:M:293:PHE:CG	2:M:293:PHE:O	2.68	0.46
2:C:957:LYS:HA	9:C:9426:HOH:O	2.15	0.46
5:P:132:ARG:HE	5:P:184:ARG:HH12	1.63	0.46
3:N:192:ALA:HB3	9:N:9164:HOH:O	2.15	0.46
5:P:119:ILE:HD13	5:P:170:HIS:CG	2.49	0.46
5:F:321:ILE:HG12	5:F:327:SER:O	2.16	0.46
3:D:493:ARG:CZ	3:D:1388:ARG:HB3	2.45	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.51	0.46
3:D:554:LEU:HG	9:D:9846:HOH:O	2.15	0.46
2:C:884:GLN:HG3	2:C:885:ILE:CD1	2.46	0.46
3:D:1140:ILE:CG2	3:D:1175:ILE:HD11	2.46	0.46
1:B:91:ASN:O	1:B:94:LEU:HD12	2.16	0.46
2:M:549:PHE:CE2	2:M:886:LEU:HD22	2.51	0.46
2:M:577:PRO:HG3	2:M:993:PHE:CZ	2.50	0.46
3:D:792:ILE:HD11	3:D:881:LEU:HD23	1.98	0.46
2:M:139:GLN:NE2	2:M:418:LEU:HD13	2.30	0.46
2:C:41:ASN:HB3	9:C:9884:HOH:O	2.14	0.46
2:C:42:VAL:HG21	9:C:9398:HOH:O	2.14	0.46
2:M:752:GLY:O	3:N:679:ARG:HG2	2.15	0.46
1:K:206:THR:H	1:K:209:GLU:CD	2.19	0.46
2:C:405:ARG:HH21	2:C:409:ARG:HH22	1.64	0.46
3:N:1232:PRO:HB3	3:N:1361:VAL:CG2	2.45	0.46
3:D:491:LYS:HD3	3:D:492:ALA:N	2.31	0.46
4:E:59:ASN:ND2	9:E:126:HOH:O	2.49	0.46
2:C:603:VAL:HG23	2:C:647:GLN:H	1.80	0.46
5:P:142:ARG:NH1	5:P:150:THR:HG21	2.30	0.46
3:N:608:SER:HA	9:N:2415:HOH:O	2.15	0.46
1:K:71:VAL:HB	9:K:6766:HOH:O	2.15	0.46
5:P:148:LYS:HB2	9:P:499:HOH:O	2.16	0.46
2:C:22:GLN:O	2:C:121:MET:HE1	2.15	0.46
3:D:1155:VAL:HG12	3:D:1156:LEU:HG	1.98	0.46
3:D:834:THR:HA	3:D:838:ARG:HE	1.80	0.46
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.97	0.46
3:N:937:TYR:O	3:N:941:PHE:HD1	1.99	0.46
1:L:74:ASP:O	1:L:78:ILE:HG13	2.16	0.46
1:B:100:LEU:HB2	1:B:115:LEU:HD23	1.98	0.46
2:C:703:ILE:CD1	2:C:830:LYS:HG2	2.46	0.46
3:D:1353:GLN:HB3	3:D:1357:ARG:NE	2.31	0.46
2:C:769:PRO:HD3	9:C:9528:HOH:O	2.14	0.46
2:C:1038:TRP:HA	2:C:1041:GLU:HB2	1.98	0.46
3:N:1161:GLU:OE2	3:N:1164:ARG:HB2	2.16	0.46
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.51	0.46
3:N:422:ALA:O	3:N:427:VAL:HG21	2.15	0.46
3:D:1264:GLU:OE2	3:D:1424:VAL:N	2.47	0.46
2:C:724:ARG:HD2	2:C:740:GLU:HA	1.97	0.46
3:D:530:VAL:HB	3:D:534:ARG:CB	2.35	0.46
3:D:552:ASN:HA	3:D:555:LYS:HD2	1.97	0.46
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.16	0.46
3:D:827:ILE:HG23	3:D:837:GLY:HA2	1.98	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:235:LEU:HA	9:C:2185:HOH:O	2.15	0.46
2:C:607:ASP:HB2	2:C:610:ARG:HG3	1.97	0.46
2:C:586:ARG:HG2	9:C:9527:HOH:O	2.16	0.46
2:M:326:ASP:OD1	2:M:326:ASP:N	2.49	0.46
2:M:1049:LEU:O	2:M:1049:LEU:HD23	2.16	0.46
1:A:42:ARG:HH12	2:C:857:ASP:CB	2.24	0.46
2:M:1090:LYS:HG2	2:M:1112:PHE:HZ	1.81	0.46
3:N:484:PRO:HB3	9:N:2002:HOH:O	2.15	0.46
3:N:1266:ARG:O	3:N:1268:PRO:HD3	2.16	0.46
2:C:824:ARG:HH11	2:C:824:ARG:HG2	1.81	0.46
1:A:178:ALA:HB1	9:A:479:HOH:O	2.16	0.46
3:N:1123:PHE:HB3	3:N:1133:ARG:O	2.14	0.46
1:K:58:ILE:HD12	1:K:138:LEU:HD11	1.96	0.46
4:E:37:ASN:HA	4:E:93:TYR:CZ	2.51	0.46
3:N:1341:PRO:O	3:N:1344:VAL:HG23	2.15	0.46
3:D:591:VAL:CG1	3:D:597:ASP:HA	2.46	0.46
3:N:407:VAL:HG23	3:N:408:GLU:HG3	1.98	0.46
1:A:209:GLU:HG3	9:A:478:HOH:O	2.15	0.46
3:N:1087:ARG:HD2	3:N:1234:THR:O	2.15	0.46
3:N:33:ASN:HD21	5:P:259:ARG:HG2	1.81	0.46
3:N:473:LEU:HD21	3:N:495:ARG:CZ	2.46	0.46
5:F:287:THR:C	5:F:289:GLU:H	2.19	0.46
2:C:961:GLU:HG2	9:C:9189:HOH:O	2.16	0.46
4:O:45:ARG:H	4:O:45:ARG:HD2	1.80	0.46
1:K:211:LEU:O	1:K:214:ALA:HB3	2.15	0.46
5:F:75:ILE:HG22	9:F:491:HOH:O	2.15	0.46
1:A:115:LEU:HD12	9:A:323:HOH:O	2.16	0.46
3:N:209:ARG:HH22	3:N:397:LYS:HG3	1.79	0.46
4:E:50:THR:HG21	9:E:157:HOH:O	2.16	0.46
5:P:218:GLN:HA	5:P:221:ILE:CD1	2.46	0.46
3:D:820:GLU:HG3	3:D:836:VAL:CG1	2.45	0.46
3:D:53:ILE:HD12	9:D:9779:HOH:O	2.16	0.46
1:B:68:ILE:O	1:B:71:VAL:HB	2.16	0.46
3:N:958:GLU:HA	9:N:9370:HOH:O	2.15	0.46
1:B:162:ILE:HB	9:B:452:HOH:O	2.16	0.46
2:M:305:PRO:HB3	2:M:308:ARG:HH21	1.81	0.46
3:N:546:ARG:CZ	3:N:546:ARG:HB3	2.46	0.46
2:M:950:LEU:HD13	9:M:1413:HOH:O	2.15	0.46
2:C:1115:LEU:HD23	3:D:85:VAL:N	2.31	0.46
5:F:181:GLU:O	5:F:184:ARG:HB3	2.15	0.46
4:E:18:ARG:HB3	9:E:128:HOH:O	2.15	0.46
2:C:136:ILE:HD13	2:C:392:SER:HB2	1.96	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1007:ALA:HB1	3:D:652:LEU:HD13	1.98	0.46
2:C:1105:LYS:O	2:C:1107:ASN:N	2.49	0.46
2:M:668:LEU:H	2:M:668:LEU:HD12	1.80	0.46
3:D:737:ASN:HB3	9:D:2458:HOH:O	2.16	0.46
2:C:115:LEU:HB3	9:C:2035:HOH:O	2.15	0.46
2:M:1105:LYS:O	2:M:1107:ASN:N	2.49	0.46
2:M:420:ARG:CG	2:M:422:ARG:HG2	2.46	0.46
3:N:1320:GLU:H	3:N:1323:GLN:NE2	2.13	0.46
5:P:277:GLN:O	5:P:280:GLN:HB3	2.15	0.46
3:D:129:PHE:CE2	3:D:587:ARG:HD3	2.50	0.46
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.45	0.46
3:N:716:PHE:HD1	9:N:9949:HOH:O	1.99	0.46
1:B:1:MET:HG3	9:B:318:HOH:O	2.15	0.46
1:K:149:GLY:O	1:K:171:PHE:HB2	2.15	0.46
3:D:1281:VAL:HG21	3:D:1313:VAL:HG21	1.98	0.46
2:M:247:PRO:HB3	9:M:1247:HOH:O	2.15	0.46
2:C:676:ILE:HG21	2:C:988:VAL:HG22	1.97	0.46
3:N:601:ARG:HH12	3:N:606:ILE:HA	1.78	0.46
2:C:108:ILE:HD11	2:C:365:ASP:OD2	2.16	0.46
3:N:432:TYR:HA	3:N:448:GLU:O	2.15	0.46
3:D:103:TRP:NE1	3:D:604:THR:OG1	2.49	0.46
2:C:775:ARG:NH2	2:C:782:ALA:HB1	2.17	0.46
3:N:671:LYS:HD2	3:N:675:ARG:NH2	2.31	0.46
3:D:148:GLU:CB	3:D:151:GLN:HB2	2.36	0.46
3:N:462:GLN:CA	3:N:513:ILE:HD13	2.41	0.46
3:N:944:THR:HA	9:N:9416:HOH:O	2.16	0.46
3:N:806:PHE:CG	3:N:806:PHE:O	2.68	0.46
2:M:139:GLN:O	2:M:334:ARG:N	2.47	0.46
1:K:143:ARG:HD3	1:K:144:VAL:H	1.80	0.46
1:K:206:THR:CG2	1:K:209:GLU:HG3	2.44	0.46
2:C:86:LYS:HE2	2:C:813:VAL:CG1	2.40	0.46
3:D:1351:GLU:O	3:D:1354:LYS:HB2	2.15	0.46
3:N:1394:VAL:HB	3:N:1397:LYS:HD2	1.97	0.46
2:C:1035:MET:HB3	3:D:707:THR:O	2.15	0.46
1:B:84:GLU:CG	1:B:127:LEU:HD11	2.46	0.46
2:C:654:LEU:HD13	2:C:664:GLY:N	2.31	0.46
2:M:1017:THR:HG21	5:P:331:ASP:CG	2.37	0.46
3:D:957:PRO:CG	3:D:1007:VAL:HG12	2.45	0.46
3:D:1496:GLU:HA	3:D:1499:ARG:CD	2.46	0.46
3:D:724:GLN:HE21	3:D:725:SER:N	2.13	0.46
3:N:688:TRP:HA	3:N:688:TRP:CE3	2.51	0.46
3:D:759:ALA:HA	3:D:763:MET:HE2	1.97	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1490:LYS:HB3	9:N:9829:HOH:O	2.16	0.46
1:K:41:ARG:HG3	1:K:177:VAL:HB	1.96	0.46
2:M:492:ASP:HB3	2:M:518:LYS:HG2	1.97	0.46
2:C:956:GLY:HA2	9:C:9318:HOH:O	2.16	0.46
3:D:671:LYS:N	9:D:9143:HOH:O	2.48	0.46
1:B:16:GLN:HG2	9:B:527:HOH:O	2.14	0.46
4:E:77:GLU:HB2	9:E:179:HOH:O	2.14	0.46
3:N:956:ILE:HG12	3:N:1039:CYS:HA	1.97	0.46
2:C:1095:LEU:CD1	3:D:607:LEU:HD13	2.46	0.46
3:D:83:SER:O	3:D:86:ARG:HB3	2.16	0.46
3:D:493:ARG:NH1	3:D:1390:LEU:H	2.13	0.46
5:F:97:GLU:H	5:F:97:GLU:CD	2.19	0.46
3:N:1011:PHE:HB3	3:N:1021:TYR:CD1	2.51	0.46
3:N:1406:ARG:HG3	3:N:1406:ARG:NH1	2.30	0.46
2:C:395:LYS:HE3	2:C:407:LYS:HE3	1.96	0.46
3:N:707:THR:HG22	9:N:9244:HOH:O	2.16	0.46
1:L:101:LEU:HD12	1:L:114:PHE:CD1	2.51	0.46
3:N:1465:ASN:HD21	3:N:1470:ARG:NH1	2.14	0.46
2:M:54:ILE:HG23	2:M:54:ILE:O	2.15	0.46
2:C:1100:GLN:HB3	9:C:9265:HOH:O	2.16	0.46
2:M:707:ARG:HH21	2:M:709:GLU:CB	2.28	0.46
1:B:175:ARG:NH1	9:B:536:HOH:O	2.49	0.46
2:M:251:ASP:HB2	9:M:1553:HOH:O	2.16	0.46
3:D:126:VAL:O	3:D:132:TYR:CD1	2.69	0.46
3:N:624:ASP:HB3	3:N:625:TYR:CD1	2.51	0.46
1:A:111:ALA:HB3	1:A:124:ASN:O	2.16	0.46
1:L:129:ILE:HA	9:L:3134:HOH:O	2.15	0.46
2:M:724:ARG:HB2	2:M:740:GLU:HA	1.98	0.46
1:L:90:LEU:HG	1:L:91:ASN:HD22	1.81	0.46
3:N:9:ARG:HA	3:N:1455:LYS:O	2.15	0.46
2:C:118:ILE:HG22	2:C:382:ILE:HD13	1.97	0.46
1:A:157:GLY:HA3	9:C:2280:HOH:O	2.16	0.46
3:N:1173:LEU:HD23	3:N:1174:LEU:N	2.31	0.46
2:C:432:ARG:HG2	2:C:432:ARG:H	1.48	0.45
2:C:485:TYR:HE2	9:C:2046:HOH:O	1.99	0.45
3:N:87:ARG:HG3	3:N:88:TYR:CD2	2.51	0.45
5:F:208:SER:HB3	9:F:562:HOH:O	2.15	0.45
5:F:208:SER:HB2	5:F:211:ASP:OD1	2.16	0.45
3:D:558:LEU:HD13	5:F:145:PRO:HB3	1.98	0.45
2:C:701:THR:HA	2:C:831:ARG:O	2.14	0.45
1:A:14:ARG:NH1	1:A:24:VAL:HG23	2.31	0.45
2:C:577:PRO:HA	2:C:671:ASN:OD1	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:948:THR:O	3:N:1019:PRO:HG2	2.16	0.45
2:M:141:HIS:N	2:M:332:ARG:O	2.48	0.45
3:N:1109:GLU:OE1	3:N:1201:CYS:HB2	2.16	0.45
1:L:89:PHE:CD1	1:L:89:PHE:N	2.84	0.45
3:N:10:ILE:HG22	3:N:1451:ALA:HA	1.98	0.45
2:M:690:ILE:HG23	2:M:852:ILE:HG13	1.98	0.45
3:D:1196:THR:HG23	9:D:2094:HOH:O	2.15	0.45
5:F:359:SER:OG	5:F:360:LYS:HE3	2.17	0.45
1:K:91:ASN:HA	9:K:5415:HOH:O	2.15	0.45
3:D:3:LYS:N	3:D:3:LYS:HD3	2.31	0.45
3:D:1087:ARG:HG2	3:D:1087:ARG:HH11	1.81	0.45
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.50	0.45
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.97	0.45
3:N:799:LYS:HA	9:N:9285:HOH:O	2.15	0.45
3:D:668:PRO:HG2	9:F:682:HOH:O	2.16	0.45
3:N:411:THR:HG21	9:N:9383:HOH:O	2.16	0.45
1:A:216:GLU:HG3	9:A:462:HOH:O	2.16	0.45
3:D:1114:THR:O	3:D:1114:THR:HG23	2.16	0.45
3:N:413:ASP:OD1	3:N:419:ASP:HA	2.16	0.45
4:E:43:GLU:CD	4:E:44:GLU:H	2.18	0.45
2:M:595:LEU:HD12	9:M:1510:HOH:O	2.15	0.45
1:K:219:ARG:HH11	1:K:219:ARG:HB2	1.82	0.45
1:K:219:ARG:HD3	9:K:1878:HOH:O	2.16	0.45
3:D:396:VAL:HG23	9:D:9631:HOH:O	2.16	0.45
3:D:87:ARG:HG3	3:D:88:TYR:CD2	2.51	0.45
3:D:90:MET:HE1	3:D:518:PRO:HB3	1.98	0.45
2:C:693:GLU:OE1	2:C:696:LYS:HD2	2.17	0.45
3:N:52:PRO:HG2	3:N:80:VAL:HG22	1.97	0.45
3:D:1476:THR:C	3:D:1478:SER:H	2.20	0.45
3:N:18:ILE:HD13	3:N:21:TRP:CZ3	2.51	0.45
2:M:6:PHE:CD1	2:M:909:ALA:HB2	2.51	0.45
2:M:318:PRO:HD3	9:M:1256:HOH:O	2.15	0.45
3:N:141:ILE:HD13	3:N:450:TYR:CB	2.45	0.45
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.45	0.45
1:A:218:LEU:HD23	1:B:222:LEU:HD22	1.98	0.45
3:N:1211:MET:HG3	3:N:1212:ALA:N	2.32	0.45
2:C:1001:VAL:HG22	9:C:9943:HOH:O	2.17	0.45
3:N:1137:ARG:HH21	3:N:1172:HIS:CE1	2.33	0.45
3:N:1465:ASN:OD1	3:N:1473:PRO:HG3	2.15	0.45
3:D:1495:ILE:HG12	4:E:80:VAL:CG1	2.46	0.45
2:C:543:ASN:HD22	2:C:543:ASN:C	2.20	0.45
2:M:440:PRO:HD2	2:M:540:PHE:HD2	1.80	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:26:GLU:HG3	1:L:194:LYS:HZ2	1.81	0.45
3:N:1243:THR:HB	3:N:1253:THR:HG22	1.97	0.45
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.46	0.45
3:D:702:LEU:HB3	3:D:745:MET:HE3	1.97	0.45
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.44	0.45
1:B:30:ARG:NH2	2:C:854:PRO:HG3	2.29	0.45
1:L:84:GLU:CD	3:N:844:ALA:HB1	2.35	0.45
2:C:1037:VAL:HG13	2:C:1049:LEU:HD11	1.98	0.45
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.46	0.45
2:C:489:THR:HG22	9:C:2165:HOH:O	2.16	0.45
5:F:238:TYR:O	5:F:242:TRP:HD1	2.00	0.45
2:C:189:ARG:HA	9:C:9211:HOH:O	2.17	0.45
3:N:1107:VAL:HA	3:N:1200:VAL:O	2.16	0.45
2:M:775:ARG:HD2	2:M:775:ARG:HA	1.77	0.45
4:O:4:PRO:HB3	9:O:2119:HOH:O	2.15	0.45
1:B:133:GLU:OE1	1:B:134:GLU:HG2	2.16	0.45
3:D:436:GLU:HG3	9:D:9955:HOH:O	2.15	0.45
3:N:601:ARG:HG2	3:N:606:ILE:HD13	1.98	0.45
3:N:1031:ASN:O	3:N:1035:ILE:HG12	2.16	0.45
3:N:213:VAL:HG22	3:N:214:GLU:N	2.29	0.45
3:D:171:LEU:C	3:D:171:LEU:HD12	2.37	0.45
2:M:721:ARG:HH22	2:M:785:VAL:HG21	1.79	0.45
3:D:1462:LEU:N	3:D:1462:LEU:HD23	2.32	0.45
2:C:578:VAL:HG23	2:C:579:VAL:HG12	1.98	0.45
2:C:605:LYS:HE2	2:C:610:ARG:HH12	1.82	0.45
3:D:1057:VAL:HA	3:D:1069:GLU:CD	2.36	0.45
1:B:110:LYS:NZ	1:B:112:ARG:HD2	2.31	0.45
1:A:57:TYR:CE2	1:A:59:GLU:HG2	2.52	0.45
2:M:1111:ILE:H	2:M:1111:ILE:CD1	2.19	0.45
2:C:25:SER:CB	2:C:335:THR:HB	2.46	0.45
2:C:182:VAL:HG12	2:C:193:LEU:HD13	1.98	0.45
2:M:449:ILE:C	2:M:451:LEU:H	2.20	0.45
2:M:586:ARG:HG2	9:M:2184:HOH:O	2.15	0.45
3:D:844:ALA:O	3:D:867:ARG:HD2	2.17	0.45
2:M:64:LEU:HD12	2:M:65:VAL:N	2.31	0.45
1:A:211:LEU:O	1:A:214:ALA:HB3	2.16	0.45
3:N:1293:PHE:CZ	3:N:1302:GLU:HG3	2.52	0.45
1:L:92:PRO:HD3	9:L:1481:HOH:O	2.15	0.45
3:D:1094:LEU:HG	3:D:1230:GLY:HA2	1.97	0.45
2:M:275:TYR:OH	2:M:487:THR:HG21	2.16	0.45
2:C:750:LYS:HG3	2:C:751:PRO:HD2	1.97	0.45
9:L:6051:HOH:O	2:M:979:THR:HG22	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1483:PHE:HB3	9:D:9789:HOH:O	2.16	0.45
1:L:187:GLY:HA2	9:N:9715:HOH:O	2.16	0.45
3:D:434:ARG:HB2	3:D:447:VAL:CG2	2.47	0.45
2:M:208:ALA:HB1	2:M:218:VAL:HG13	1.99	0.45
5:P:160:ASP:O	5:P:164:LYS:HG3	2.16	0.45
3:D:23:TYR:CZ	3:D:89:ARG:HG2	2.51	0.45
5:F:273:ARG:O	5:F:276:ARG:HB2	2.17	0.45
5:P:122:LEU:N	9:P:756:HOH:O	2.38	0.45
2:C:626:ARG:NH2	9:C:9247:HOH:O	2.49	0.45
2:M:500:ASN:HD21	3:N:1067:VAL:CG2	2.30	0.45
3:N:428:LYS:HB3	3:N:450:TYR:HE1	1.81	0.45
3:N:428:LYS:HG2	3:N:451:ASP:OD1	2.17	0.45
2:C:1056:LYS:NZ	3:D:749:VAL:O	2.48	0.45
1:A:218:LEU:HD23	1:B:222:LEU:CD2	2.47	0.45
1:B:48:ILE:HG22	1:B:173:PRO:HD2	1.97	0.45
1:K:47:SER:HB3	1:K:217:ILE:HD13	1.97	0.45
3:N:545:ARG:HH11	3:N:545:ARG:HB3	1.81	0.45
2:M:690:ILE:CD1	2:M:833:LEU:HD23	2.47	0.45
3:N:1433:SER:HB2	9:N:9765:HOH:O	2.15	0.45
3:N:1495:ILE:HA	4:O:88:GLU:OE1	2.17	0.45
9:N:9766:HOH:O	5:P:264:MET:HE1	2.15	0.45
1:K:102:LYS:HD2	1:K:139:ASN:ND2	2.31	0.45
3:N:704:ARG:HD2	3:N:705:ALA:H	1.81	0.45
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.98	0.45
3:D:783:ARG:HG2	3:D:783:ARG:NH1	2.31	0.45
4:E:86:GLN:HB2	9:E:175:HOH:O	2.15	0.45
2:M:61:LYS:HG2	9:M:2301:HOH:O	2.16	0.45
1:B:132:LEU:HD22	1:B:138:LEU:HD22	1.98	0.45
2:M:76:PRO:HD2	9:M:1533:HOH:O	2.17	0.45
3:D:126:VAL:O	3:D:132:TYR:HD1	2.00	0.45
2:M:69:LEU:HB2	2:M:97:ARG:HB2	1.98	0.45
2:C:953:VAL:HG11	2:C:966:LEU:HD22	1.98	0.45
3:D:850:LEU:O	3:D:853:VAL:HB	2.16	0.45
2:M:320:HIS:N	2:M:320:HIS:CD2	2.84	0.45
3:N:507:ASN:HA	9:N:9317:HOH:O	2.16	0.45
5:P:94:LEU:HD22	5:P:97:GLU:HG2	1.98	0.45
3:N:187:LYS:CE	3:N:213:VAL:HG12	2.33	0.45
2:C:65:VAL:O	2:C:101:ILE:HG12	2.15	0.45
5:P:369:LEU:O	5:P:373:LYS:HB2	2.17	0.45
2:M:551:GLU:HB3	2:M:906:PHE:CD2	2.45	0.45
2:M:578:VAL:HG13	2:M:671:ASN:OD1	2.16	0.45
3:D:72:VAL:HG22	3:D:73:CYS:N	2.32	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:O:47:LYS:HB2	9:O:3286:HOH:O	2.16	0.45
4:O:58:PRO:HB2	9:O:3494:HOH:O	2.16	0.45
3:N:37:LEU:HD11	3:N:529:GLN:HE21	1.82	0.45
2:C:1039:ALA:O	2:C:1043:TYR:HD1	1.99	0.45
2:M:710:ILE:HB	2:M:790:LEU:HD22	1.99	0.45
1:K:156:HIS:CD2	1:K:157:GLY:N	2.85	0.45
1:L:26:GLU:HB3	1:L:194:LYS:HG3	1.98	0.45
3:N:880:ILE:O	3:N:883:ALA:HB3	2.17	0.45
2:C:640:ARG:HB2	2:C:642:ARG:NH2	2.27	0.45
3:N:785:ILE:HG22	3:N:789:LEU:HD12	1.98	0.45
2:C:841:ASN:N	2:C:841:ASN:HD22	2.14	0.45
2:C:253:ALA:O	2:C:256:TYR:HB2	2.16	0.45
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.32	0.45
1:L:90:LEU:HD23	9:L:3633:HOH:O	2.16	0.45
1:L:208:LEU:HB2	9:L:1470:HOH:O	2.17	0.45
3:D:653:PHE:CD1	3:D:653:PHE:N	2.84	0.45
5:P:287:THR:C	5:P:289:GLU:H	2.20	0.45
3:N:770:LEU:HD22	3:N:777:PRO:HA	1.97	0.45
2:M:797:GLY:HA2	9:M:1180:HOH:O	2.16	0.45
3:N:794:GLN:HG2	3:N:905:PRO:CG	2.47	0.45
2:M:302:VAL:C	2:M:305:PRO:HD2	2.37	0.45
3:D:23:TYR:HB2	3:D:49:ILE:O	2.16	0.45
2:C:284:ARG:HG2	2:C:285:LEU:H	1.81	0.45
3:N:85:VAL:HG12	3:N:89:ARG:NE	2.32	0.45
3:D:796:ARG:CG	3:D:828:LYS:HD2	2.39	0.45
2:M:358:ARG:HB3	2:M:371:LYS:O	2.17	0.45
1:B:110:LYS:HZ3	1:B:112:ARG:HD2	1.82	0.45
3:N:1189:ARG:HB3	3:N:1204:CYS:HA	1.98	0.45
2:M:791:ARG:CZ	2:M:791:ARG:HB3	2.46	0.45
3:N:1140:ILE:HG21	3:N:1175:ILE:HD11	1.97	0.45
1:K:46:SER:HB3	2:M:856:GLU:CG	2.46	0.45
3:D:527:MET:HE1	5:F:258:ILE:HD11	1.98	0.45
3:N:161:LEU:CD1	3:N:452:ILE:HD13	2.47	0.45
3:D:1259:VAL:O	3:D:1263:PHE:HD1	2.00	0.45
3:D:1271:LYS:HG2	9:D:2058:HOH:O	2.15	0.45
2:M:31:GLN:HG2	2:M:34:VAL:CG2	2.44	0.45
3:N:882:PHE:O	3:N:886:VAL:HG23	2.16	0.45
2:M:244:PRO:CD	2:M:245:GLY:H	2.29	0.45
3:D:1187:PRO:HG3	9:D:9184:HOH:O	2.17	0.45
1:K:66:SER:O	1:K:75:VAL:HG23	2.16	0.45
2:M:918:LEU:HD23	2:M:967:PHE:O	2.16	0.45
3:N:431:VAL:HA	9:N:2074:HOH:O	2.16	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:89:PHE:HB2	1:A:94:LEU:HD13	1.97	0.45
3:D:134:VAL:HG12	3:D:152:LEU:HB3	1.98	0.45
2:M:1044:GLY:HA3	4:O:17:TYR:CD1	2.52	0.45
3:D:853:VAL:HA	3:D:858:VAL:O	2.17	0.45
3:D:882:PHE:O	3:D:886:VAL:HG23	2.16	0.45
2:M:742:VAL:HG12	9:M:2260:HOH:O	2.17	0.45
3:N:1353:GLN:HG2	3:N:1368:ILE:HD12	1.97	0.45
2:C:440:PRO:HG2	2:C:441:VAL:HG23	1.99	0.45
2:C:269:LEU:HD11	9:C:9442:HOH:O	2.15	0.45
3:N:1299:PHE:HB2	9:N:9478:HOH:O	2.15	0.45
1:L:73:GLU:OE1	1:L:130:ALA:HA	2.16	0.45
3:N:1390:LEU:HD22	9:N:9252:HOH:O	2.17	0.45
2:M:430:VAL:HG13	2:M:430:VAL:O	2.17	0.45
4:E:84:ARG:O	4:E:84:ARG:HG3	2.16	0.45
3:N:491:LYS:HB2	9:N:2260:HOH:O	2.16	0.45
2:C:509:ALA:HB2	9:C:9210:HOH:O	2.16	0.45
3:N:195:VAL:HB	3:N:205:TYR:HD2	1.82	0.45
3:D:493:ARG:HH11	3:D:1390:LEU:HB2	1.82	0.45
3:D:171:LEU:HB2	3:D:390:PRO:CA	2.45	0.45
3:D:215:TYR:HD1	9:D:9423:HOH:O	2.00	0.45
2:M:783:ARG:HE	2:M:785:VAL:HG11	1.82	0.45
3:D:553:ARG:HD2	3:D:570:GLU:OE2	2.17	0.45
5:F:200:LYS:HD2	5:F:209:PHE:HZ	1.79	0.45
2:C:630:ARG:HH22	2:C:707:ARG:CA	2.29	0.45
2:C:798:GLY:HA3	2:C:828:ALA:O	2.17	0.45
1:A:30:ARG:HH12	2:C:938:LYS:HZ3	1.62	0.45
3:D:1026:SER:C	3:D:1028:ALA:H	2.18	0.45
5:F:306:GLU:O	5:F:310:ILE:HG13	2.17	0.45
3:N:18:ILE:HG21	3:N:516:ALA:O	2.17	0.45
5:P:303:ARG:HB3	9:P:543:HOH:O	2.17	0.45
1:B:89:PHE:HD1	1:B:120:VAL:HG13	1.81	0.45
2:M:571:LEU:CD2	2:M:669:GLY:HA2	2.47	0.45
2:M:565:GLN:HG2	2:M:995:MET:HE1	1.97	0.45
2:C:1043:TYR:C	2:C:1045:ALA:H	2.19	0.45
2:C:815:LEU:HA	9:C:9978:HOH:O	2.16	0.45
1:L:222:LEU:O	1:L:225:PHE:HD1	2.00	0.45
2:C:1105:LYS:C	2:C:1107:ASN:HD22	2.19	0.45
3:D:884:ARG:HB2	9:D:2325:HOH:O	2.16	0.45
3:N:216:VAL:HA	3:N:389:GLU:OE2	2.16	0.45
3:D:2:LYS:HB3	3:D:3:LYS:HD3	1.98	0.45
2:M:1002:GLU:HG3	2:M:1002:GLU:H	1.54	0.45
2:M:602:GLU:HA	2:M:647:GLN:O	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:254:VAL:HG11	9:M:1962:HOH:O	2.17	0.45
3:N:776:GLU:OE1	3:N:912:LYS:HE2	2.17	0.45
2:C:118:ILE:HG22	2:C:382:ILE:HG21	1.99	0.45
2:C:1104:GLU:CD	2:C:1104:GLU:H	2.20	0.45
3:D:112:ILE:HD12	3:D:112:ILE:C	2.37	0.45
3:N:563:PRO:HG2	3:N:566:ILE:HB	1.99	0.45
3:N:601:ARG:HG2	3:N:606:ILE:CD1	2.47	0.45
3:D:1434:TRP:CZ3	3:D:1455:LYS:HB3	2.52	0.45
3:D:23:TYR:O	3:D:49:ILE:HG23	2.17	0.45
3:N:671:LYS:NZ	3:N:675:ARG:NE	2.60	0.45
2:C:274:ARG:CG	2:C:285:LEU:HD22	2.47	0.45
2:M:1096:ALA:HB1	3:N:13:ALA:HB3	1.98	0.45
1:A:26:GLU:CG	1:A:194:LYS:HD3	2.47	0.45
1:B:206:THR:HG22	1:B:209:GLU:H	1.82	0.45
3:D:1394:VAL:HG21	3:D:1397:LYS:HZ2	1.82	0.45
2:C:141:HIS:HB3	2:C:418:LEU:HG	1.97	0.45
2:C:50:GLU:OE2	2:C:345:ARG:HD3	2.16	0.45
2:C:611:ILE:HG22	2:C:613:VAL:HG13	1.99	0.45
2:C:626:ARG:CB	2:C:639:GLN:HE21	2.30	0.45
3:N:781:PRO:HB2	3:N:911:LEU:HD23	1.99	0.45
3:D:739:ASP:O	3:D:743:ASP:OD1	2.35	0.45
2:M:402:SER:HB2	2:M:566:THR:HA	1.98	0.45
2:C:183:SER:HB2	2:C:190:LYS:HD3	1.99	0.45
2:M:601:GLY:HA3	2:M:615:TYR:HA	1.98	0.45
2:C:1008:ARG:NH2	2:C:1012:PRO:HD2	2.32	0.45
2:C:732:ALA:HB3	9:C:9249:HOH:O	2.17	0.45
1:K:132:LEU:HD12	1:K:132:LEU:N	2.32	0.45
1:A:1:MET:O	1:A:6:LEU:HB2	2.16	0.45
3:D:1183:ILE:N	3:D:1183:ILE:HD12	2.31	0.45
2:M:143:SER:OG	2:M:276:LYS:HE2	2.16	0.45
3:D:616:GLN:NE2	3:D:619:LEU:HB3	2.32	0.45
2:M:17:PRO:HB2	9:M:1925:HOH:O	2.16	0.45
2:C:44:ILE:HG23	2:C:344:PHE:CE1	2.52	0.45
2:M:928:LYS:HD2	9:M:2244:HOH:O	2.16	0.45
3:N:768:ASN:HD22	3:N:768:ASN:N	2.15	0.45
3:N:768:ASN:N	3:N:768:ASN:ND2	2.65	0.45
2:M:923:GLU:HA	2:M:923:GLU:OE2	2.16	0.45
1:A:100:LEU:HD21	1:A:141:GLU:HG2	1.97	0.45
2:M:442:GLU:CD	2:M:454:SER:HB2	2.37	0.45
5:F:102:LEU:CD1	5:F:187:LEU:HG	2.47	0.45
3:N:820:GLU:CG	3:N:836:VAL:HG11	2.46	0.45
2:C:357:GLU:O	2:C:360:LEU:HG	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:173:PRO:O	1:L:201:THR:HG23	2.16	0.45
3:N:1171:VAL:HG12	3:N:1171:VAL:O	2.17	0.45
2:C:402:SER:OG	2:C:566:THR:HG22	2.16	0.45
1:L:186:LEU:HD11	9:L:2277:HOH:O	2.16	0.45
1:B:124:ASN:OD1	1:B:127:LEU:HD13	2.17	0.45
3:D:473:LEU:HD21	3:D:495:ARG:HH21	1.78	0.45
1:B:46:SER:O	1:B:148:VAL:HB	2.16	0.45
5:F:421:PHE:C	5:F:423:ASP:N	2.69	0.45
3:D:1155:VAL:HG11	3:D:1177:ALA:CB	2.47	0.45
2:C:681:GLY:O	3:D:633:VAL:HG21	2.16	0.45
1:K:29:GLU:HB3	1:K:30:ARG:H	1.56	0.45
1:L:100:LEU:HB2	1:L:115:LEU:HD11	1.98	0.45
2:M:253:ALA:O	2:M:256:TYR:HB2	2.17	0.45
2:C:71:TYR:H	2:C:71:TYR:HD2	1.64	0.45
2:M:998:TYR:OH	2:M:1000:MET:HA	2.16	0.45
3:N:643:GLY:HA3	3:N:727:GLN:HG3	1.99	0.45
5:P:107:GLU:HG3	9:P:557:HOH:O	2.15	0.45
3:D:662:GLU:HB3	9:D:9957:HOH:O	2.16	0.45
3:N:1278:ASP:N	3:N:1278:ASP:OD1	2.49	0.45
3:D:789:LEU:HD23	3:D:789:LEU:HA	1.77	0.45
3:D:1284:GLU:HG2	9:D:9285:HOH:O	2.17	0.45
3:D:1392:GLY:HA3	9:D:9829:HOH:O	2.16	0.45
2:M:804:VAL:HG21	9:M:1805:HOH:O	2.17	0.45
3:D:216:VAL:HG12	9:D:9632:HOH:O	2.17	0.45
3:N:393:ILE:HD13	9:N:2314:HOH:O	2.16	0.45
2:C:64:LEU:CD1	2:C:100:LEU:HD13	2.47	0.45
2:C:54:ILE:HG22	2:C:66:LEU:HB3	1.98	0.45
1:A:65:PHE:CD1	2:C:828:ALA:HB3	2.52	0.45
3:N:54:LYS:CG	3:N:57:GLU:HB3	2.43	0.45
3:D:1209:LEU:HB3	3:D:1211:MET:HG2	1.98	0.45
3:N:949:ILE:HD11	3:N:1023:MET:HE2	1.98	0.45
2:M:882:LEU:HD23	3:N:951:ILE:HG12	1.98	0.45
3:N:481:MET:SD	3:N:1388:ARG:NE	2.90	0.45
2:M:1015:LEU:HD22	3:N:528:VAL:HG21	1.99	0.45
3:N:537:THR:HG23	9:N:9511:HOH:O	2.15	0.45
3:D:813:LEU:O	3:D:817:GLU:HB2	2.17	0.45
9:C:9290:HOH:O	3:D:621:LYS:HE3	2.16	0.45
3:N:654:LYS:HB3	3:N:655:PRO:CD	2.45	0.45
3:D:666:ILE:CD1	3:D:666:ILE:H	2.25	0.45
2:C:553:ASP:OD2	2:C:883:GLY:N	2.42	0.45
3:N:1428:ALA:O	3:N:1431:THR:HG23	2.17	0.45
3:N:1047:LYS:NZ	3:N:1053:PHE:HA	2.32	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:184:THR:HB	1:L:194:LYS:HZ3	1.81	0.45
2:M:449:ILE:O	2:M:451:LEU:HG	2.17	0.45
5:P:260:ILE:HG23	5:P:264:MET:CB	2.44	0.45
5:F:403:LYS:HE3	9:F:568:HOH:O	2.16	0.45
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.17	0.45
3:N:962:GLN:HB3	9:N:2175:HOH:O	2.17	0.45
3:N:466:LYS:HG2	3:N:510:GLU:HG2	1.99	0.45
1:L:141:GLU:HB2	9:L:3233:HOH:O	2.17	0.45
5:P:172:ARG:O	5:P:176:ILE:HG13	2.17	0.45
2:M:770:GLU:HG2	3:N:65:ARG:HH12	1.80	0.45
3:N:122:GLU:O	3:N:126:VAL:HG23	2.16	0.45
3:D:1281:VAL:HG21	3:D:1313:VAL:CG2	2.47	0.45
2:C:189:ARG:NH1	9:C:9636:HOH:O	2.49	0.45
2:M:1106:ASP:HB3	9:M:1151:HOH:O	2.17	0.45
3:D:893:GLU:O	3:D:896:ALA:HB3	2.17	0.45
2:C:851:LYS:HD2	9:C:2174:HOH:O	2.17	0.45
2:M:806:LEU:HB2	2:M:822:VAL:HG22	1.99	0.45
5:P:74:LYS:HG3	9:P:611:HOH:O	2.16	0.45
5:P:418:LEU:HD11	9:P:479:HOH:O	2.16	0.45
5:P:132:ARG:HE	5:P:184:ARG:NH1	2.16	0.44
3:N:183:GLU:HA	3:N:186:VAL:HG12	1.99	0.44
2:C:208:ALA:HB1	2:C:218:VAL:CG1	2.47	0.44
2:C:258:TYR:O	2:C:290:LEU:HG	2.17	0.44
3:D:551:ASN:O	3:D:554:LEU:HB3	2.17	0.44
2:C:102:HIS:HB2	2:C:106:GLY:O	2.17	0.44
2:C:64:LEU:HB2	2:C:359:MET:SD	2.57	0.44
5:P:401:GLU:OE1	5:P:405:LEU:HD22	2.16	0.44
5:F:295:MET:HB3	5:F:299:TRP:CD1	2.52	0.44
2:C:398:THR:HA	2:C:633:GLN:HG3	1.99	0.44
5:F:363:GLU:HA	5:F:367:MET:HE2	1.98	0.44
2:M:877:PRO:HB3	3:N:1020:LEU:HD13	1.99	0.44
3:N:493:ARG:HH21	3:N:1388:ARG:HB3	1.81	0.44
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.99	0.44
1:K:51:THR:HA	1:K:145:ASP:O	2.17	0.44
2:M:73:LEU:HB3	2:M:94:LEU:HD13	1.99	0.44
2:M:96:ALA:O	2:M:98:LEU:HD12	2.16	0.44
5:F:313:GLU:HB3	9:F:541:HOH:O	2.16	0.44
3:N:924:MET:O	3:N:927:THR:HB	2.17	0.44
3:D:157:GLU:HA	3:D:160:GLU:OE1	2.16	0.44
5:P:247:ILE:HG22	5:P:251:ILE:HD11	1.98	0.44
4:E:59:ASN:HD22	4:E:60:ALA:N	2.15	0.44
1:L:175:ARG:O	3:N:851:LEU:CD2	2.65	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:123:MET:O	1:K:125:PRO:HD3	2.18	0.44
4:E:58:PRO:HD2	9:E:113:HOH:O	2.17	0.44
3:N:647:ARG:NH1	3:N:680:GLN:HG3	2.33	0.44
1:B:58:ILE:HD12	1:B:140:MET:HE2	1.99	0.44
3:N:659:LYS:O	3:N:659:LYS:HD3	2.17	0.44
5:P:277:GLN:HA	9:P:763:HOH:O	2.16	0.44
3:D:776:GLU:HG3	9:D:9670:HOH:O	2.17	0.44
3:N:1129:THR:O	3:N:1130:ARG:HD2	2.17	0.44
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.82	0.44
3:N:638:LYS:HD3	9:N:9367:HOH:O	2.17	0.44
4:E:66:LYS:HB2	4:E:66:LYS:NZ	2.32	0.44
5:F:252:ALA:HB1	5:F:265:VAL:HG21	1.98	0.44
2:C:971:LYS:HE2	9:D:2072:HOH:O	2.16	0.44
2:M:202:TYR:OH	2:M:304:LEU:HD22	2.16	0.44
2:M:282:GLY:HA2	2:M:308:ARG:NH2	2.32	0.44
2:C:1114:GLY:N	2:C:1115:LEU:HD12	2.23	0.44
3:D:82:LYS:HD2	9:D:9518:HOH:O	2.17	0.44
2:C:777:ILE:HG22	2:C:778:PHE:CD1	2.53	0.44
5:F:369:LEU:O	5:F:373:LYS:HB2	2.17	0.44
2:C:208:ALA:HB1	2:C:218:VAL:HG13	1.99	0.44
2:C:212:GLY:HA3	2:C:218:VAL:CG2	2.48	0.44
3:D:1192:LEU:HD21	3:D:1372:VAL:CG1	2.47	0.44
5:P:350:LEU:HG	5:P:354:LEU:HD11	1.99	0.44
3:D:1394:VAL:HB	3:D:1397:LYS:CD	2.47	0.44
2:C:862:PRO:HA	2:C:975:TYR:CE1	2.53	0.44
3:N:1381:VAL:HB	3:N:1389:LEU:O	2.17	0.44
3:N:37:LEU:HD11	3:N:529:GLN:NE2	2.32	0.44
2:M:52:PHE:O	2:M:54:ILE:N	2.50	0.44
5:P:321:ILE:HG12	5:P:327:SER:O	2.17	0.44
3:D:591:VAL:HG11	3:D:597:ASP:HA	1.99	0.44
2:C:162:ILE:HB	2:C:172:ILE:HD13	1.99	0.44
2:C:185:LYS:HG2	2:C:190:LYS:CG	2.47	0.44
2:C:298:PHE:HD1	9:C:2292:HOH:O	2.00	0.44
2:C:144:PRO:C	2:C:276:LYS:HZ2	2.19	0.44
3:D:1107:VAL:O	3:D:1218:GLY:N	2.48	0.44
3:D:843:PHE:CZ	3:D:864:VAL:HG11	2.53	0.44
3:D:1063:GLU:HG2	3:D:1064:GLY:N	2.29	0.44
3:D:1005:GLN:HB3	9:D:9469:HOH:O	2.16	0.44
2:C:1054:THR:CG2	2:C:1082:PRO:HG3	2.48	0.44
1:A:62:LEU:HD12	1:A:62:LEU:N	2.31	0.44
2:M:69:LEU:HD21	2:M:99:GLN:CG	2.47	0.44
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.52	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.47	0.44
2:C:394:PHE:HA	9:C:9837:HOH:O	2.16	0.44
5:F:328:PHE:HD2	5:F:328:PHE:HA	1.73	0.44
3:N:1408:ILE:HB	9:N:2499:HOH:O	2.18	0.44
2:M:950:LEU:HD22	9:M:1413:HOH:O	2.16	0.44
3:D:945:SER:OG	3:D:947:ILE:HG23	2.18	0.44
3:D:95:LEU:HD11	3:D:517:VAL:CG2	2.48	0.44
3:D:537:THR:N	5:F:317:LEU:HB2	2.32	0.44
2:C:1090:LYS:HG2	2:C:1112:PHE:CZ	2.53	0.44
3:D:475:LYS:O	3:D:479:GLU:HG2	2.16	0.44
3:D:543:LEU:HA	3:D:546:ARG:CG	2.42	0.44
5:P:366:ALA:HB3	5:P:367:MET:HE1	2.00	0.44
5:F:358:LEU:CD1	5:F:370:LYS:HG3	2.45	0.44
3:N:1023:MET:O	3:N:1028:ALA:HB3	2.18	0.44
2:M:551:GLU:HG3	2:M:552:HIS:CD2	2.51	0.44
2:M:747:ALA:O	2:M:799:ILE:HA	2.17	0.44
3:N:619:LEU:HD23	9:N:9219:HOH:O	2.15	0.44
2:C:405:ARG:NH2	2:C:566:THR:HG21	2.31	0.44
3:D:1196:THR:N	9:D:9138:HOH:O	2.42	0.44
1:B:99:LEU:HA	9:B:365:HOH:O	2.16	0.44
2:C:854:PRO:C	2:C:856:GLU:N	2.70	0.44
2:C:1014:SER:OG	5:F:331:ASP:HA	2.17	0.44
3:D:1496:GLU:HA	3:D:1499:ARG:CG	2.46	0.44
2:C:1054:THR:HB	9:C:9412:HOH:O	2.17	0.44
1:K:198:ARG:HD3	1:K:200:TRP:HH2	1.80	0.44
1:B:219:ARG:O	1:B:223:THR:HG23	2.18	0.44
2:M:513:VAL:HB	9:M:1626:HOH:O	2.16	0.44
2:C:205:GLU:O	2:C:209:ARG:HD2	2.17	0.44
3:N:933:ALA:O	3:N:937:TYR:HD1	2.00	0.44
2:M:84:ARG:HD3	9:M:1176:HOH:O	2.17	0.44
3:D:1102:THR:HG22	3:D:1222:GLY:CA	2.48	0.44
3:N:827:ILE:HG23	3:N:837:GLY:HA2	1.99	0.44
1:B:194:LYS:HD3	9:B:404:HOH:O	2.17	0.44
3:D:1492:LEU:HD13	3:D:1492:LEU:O	2.17	0.44
1:A:51:THR:HA	1:A:145:ASP:O	2.17	0.44
3:D:1485:GLN:O	4:E:75:PHE:HA	2.17	0.44
3:N:566:ILE:HG23	5:P:214:GLN:OE1	2.18	0.44
3:N:441:ARG:O	3:N:443:VAL:N	2.50	0.44
3:D:87:ARG:CB	3:D:523:ASP:HB2	2.48	0.44
3:D:1426:LYS:HA	3:D:1429:LEU:HB3	2.00	0.44
2:C:724:ARG:NH2	2:C:734:LEU:HB3	2.33	0.44
3:D:1312:LEU:HD12	3:D:1326:THR:O	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.33	0.44
3:D:781:PRO:HB2	3:D:911:LEU:HD23	2.00	0.44
2:C:597:ALA:CB	2:C:655:LEU:HD21	2.38	0.44
5:P:361:LEU:HD13	5:P:366:ALA:CB	2.47	0.44
2:C:914:ILE:HD12	2:C:914:ILE:HA	1.72	0.44
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.51	0.44
2:C:565:GLN:OE1	2:C:842:ARG:HG2	2.18	0.44
2:M:549:PHE:HB3	2:M:552:HIS:CD2	2.52	0.44
3:N:1114:THR:O	3:N:1114:THR:HG23	2.17	0.44
1:K:209:GLU:O	1:K:213:GLN:HG3	2.18	0.44
2:C:86:LYS:HG2	2:C:813:VAL:HG12	1.98	0.44
3:D:397:LYS:HZ3	3:D:399:ARG:HH21	1.66	0.44
3:D:209:ARG:HB2	3:D:395:VAL:O	2.17	0.44
3:N:150:ARG:NH1	9:N:9382:HOH:O	2.50	0.44
3:D:1112:CYS:CB	9:D:9138:HOH:O	2.64	0.44
2:M:631:SER:HG	2:M:635:THR:H	1.65	0.44
2:M:375:SER:HA	9:M:1563:HOH:O	2.17	0.44
2:C:960:GLU:HG2	9:C:9189:HOH:O	2.18	0.44
4:O:40:LEU:HG	4:O:67:GLU:HG2	1.99	0.44
3:N:925:GLU:HG3	9:N:9237:HOH:O	2.17	0.44
5:P:152:ASP:HA	9:P:474:HOH:O	2.17	0.44
2:C:525:SER:O	2:C:529:VAL:HG23	2.17	0.44
3:D:1346:ARG:NH2	9:D:9256:HOH:O	2.50	0.44
3:N:1385:GLY:HA3	9:N:9637:HOH:O	2.17	0.44
2:M:619:ARG:HG2	9:M:1285:HOH:O	2.16	0.44
3:N:178:LEU:HD11	3:N:203:ALA:HB2	1.99	0.44
5:P:171:LYS:HG3	5:P:175:HIS:CD2	2.53	0.44
3:D:10:ILE:CD1	3:D:1447:LEU:HG	2.48	0.44
3:D:62:LYS:HE2	3:D:75:ARG:NH1	2.32	0.44
3:N:520:LEU:O	3:N:525:ARG:NH1	2.51	0.44
1:A:150:TYR:CE2	1:A:152:PRO:HG3	2.46	0.44
3:D:798:GLU:HG3	9:D:9700:HOH:O	2.17	0.44
5:P:361:LEU:HD23	5:P:362:SER:N	2.33	0.44
5:P:138:SER:HB2	5:P:140:ARG:HG2	2.00	0.44
3:D:1145:TYR:HD2	3:D:1168:MET:SD	2.40	0.44
2:M:876:VAL:O	2:M:879:ARG:O	2.35	0.44
2:M:625:LEU:HD11	2:M:641:PRO:HG3	1.98	0.44
2:M:118:ILE:HD12	2:M:119:PRO:O	2.18	0.44
1:K:11:PHE:CD1	1:L:225:PHE:HA	2.52	0.44
3:N:1432:LYS:HG2	9:N:2103:HOH:O	2.18	0.44
1:K:9:PRO:HB3	1:K:25:LEU:CD2	2.47	0.44
5:P:264:MET:O	5:P:268:ILE:HG13	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.76	0.44
2:C:146:VAL:CG2	2:C:162:ILE:HG23	2.48	0.44
1:A:11:PHE:CE2	1:A:13:VAL:HG22	2.52	0.44
1:K:164:ALA:HB3	9:K:7572:HOH:O	2.18	0.44
5:P:172:ARG:HH21	5:P:173:TYR:HE1	1.66	0.44
3:D:393:ILE:N	3:D:393:ILE:HD12	2.30	0.44
1:K:198:ARG:HD3	1:K:200:TRP:CH2	2.52	0.44
3:D:724:GLN:HE21	3:D:725:SER:HA	1.83	0.44
2:M:198:ARG:HD3	9:M:1364:HOH:O	2.17	0.44
3:N:1196:THR:HG22	9:N:9626:HOH:O	2.17	0.44
5:F:328:PHE:O	5:F:330:GLY:N	2.51	0.44
2:M:195:LEU:HD12	2:M:234:ALA:HB1	1.99	0.44
2:M:425:PHE:HZ	9:N:9823:HOH:O	1.99	0.44
3:N:563:PRO:O	3:N:567:ILE:HG13	2.18	0.44
2:C:358:ARG:HA	2:C:361:MET:HB2	1.99	0.44
3:N:1042:ARG:O	3:N:1057:VAL:HB	2.18	0.44
3:D:54:LYS:HD3	3:D:57:GLU:OE2	2.18	0.44
2:C:158:TYR:HD1	9:C:9023:HOH:O	2.01	0.44
1:A:150:TYR:OH	2:C:832:LYS:HE3	2.16	0.44
2:M:187:ASN:HB3	9:M:2211:HOH:O	2.18	0.44
5:P:371:LEU:HA	5:P:375:LEU:HB3	1.99	0.44
2:C:339:LEU:HB3	2:C:385:PHE:HZ	1.82	0.44
5:F:411:HIS:CE1	5:F:412:GLU:HG2	2.53	0.44
2:M:139:GLN:CG	2:M:140:ILE:H	2.31	0.44
1:B:211:LEU:O	1:B:215:VAL:HG13	2.18	0.44
1:K:67:THR:HG22	2:M:627:ARG:HH21	1.83	0.44
2:M:611:ILE:HD11	2:M:641:PRO:HG3	2.00	0.44
1:K:67:THR:CG2	2:M:627:ARG:HH21	2.31	0.44
3:N:129:PHE:CE2	3:N:587:ARG:HD3	2.52	0.44
5:P:364:ARG:HH12	5:P:392:VAL:CG2	2.25	0.44
2:C:1003:ASP:O	2:C:1005:MET:N	2.51	0.44
2:C:1005:MET:HB3	3:D:629:SER:OG	2.17	0.44
1:L:142:VAL:HG23	1:L:142:VAL:O	2.18	0.44
5:P:409:LYS:HD3	9:P:725:HOH:O	2.17	0.44
2:C:811:PRO:HD2	2:C:813:VAL:CG1	2.44	0.44
2:M:95:TYR:CD2	2:M:114:PHE:HB3	2.53	0.44
1:A:19:GLU:O	1:A:200:TRP:HA	2.18	0.44
3:D:703:ASN:O	3:D:745:MET:HG2	2.16	0.44
3:N:789:LEU:HD22	3:N:882:PHE:HE1	1.82	0.44
2:M:397:GLU:N	2:M:633:GLN:OE1	2.50	0.44
3:D:502:PHE:CE1	3:D:509:PRO:HB3	2.52	0.44
2:C:941:VAL:O	2:C:944:LEU:HB2	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:868:TYR:CB	3:D:873:LEU:HD11	2.48	0.44
2:M:113:VAL:O	2:M:115:LEU:HG	2.16	0.44
1:L:133:GLU:N	9:L:4499:HOH:O	2.50	0.44
5:P:105:LYS:HZ3	5:P:179:GLU:HB3	1.80	0.44
1:B:182:GLU:HG2	1:B:194:LYS:HD2	1.98	0.44
1:L:63:HIS:HD2	9:L:2066:HOH:O	2.00	0.44
3:D:646:LYS:HE2	3:D:722:GLU:OE2	2.18	0.44
5:F:343:ASP:N	5:F:343:ASP:OD1	2.50	0.44
3:D:1292:VAL:O	3:D:1303:TYR:HB2	2.18	0.44
1:A:212:ASN:ND2	9:A:416:HOH:O	2.51	0.44
2:C:946:ARG:HD2	2:C:984:GLU:HB2	1.99	0.44
2:C:987:ILE:N	2:C:987:ILE:HD12	2.33	0.44
3:D:162:ARG:HE	3:D:434:ARG:NH2	2.15	0.44
3:N:546:ARG:HH12	3:N:550:ARG:CZ	2.31	0.44
3:N:1031:ASN:O	3:N:1034:GLN:HB2	2.17	0.44
3:D:81:THR:HG22	3:D:82:LYS:N	2.33	0.44
3:D:191:LEU:HB3	3:D:195:VAL:HG21	2.00	0.44
2:C:474:VAL:HG13	2:C:530:GLU:C	2.38	0.44
5:F:164:LYS:HA	5:F:171:LYS:NZ	2.33	0.44
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.99	0.44
2:M:158:TYR:CE1	2:M:313:LEU:HG	2.52	0.44
2:C:876:VAL:CB	3:D:949:ILE:HG13	2.45	0.44
2:C:949:LYS:NZ	3:D:827:ILE:HD12	2.32	0.44
1:B:206:THR:HG23	1:B:209:GLU:H	1.82	0.44
2:C:585:GLU:HG2	2:C:586:ARG:N	2.32	0.44
2:C:598:GLU:O	2:C:651:LYS:HG3	2.18	0.44
1:K:65:PHE:HE1	2:M:799:ILE:HD11	1.83	0.44
2:C:838:LYS:CG	2:C:997:LEU:HD12	2.46	0.44
2:M:274:ARG:NH2	2:M:284:ARG:HG3	2.33	0.44
1:B:143:ARG:CD	1:B:158:ILE:HG21	2.48	0.44
1:B:156:HIS:CE1	1:B:158:ILE:HG12	2.52	0.44
1:L:176:ARG:HD3	3:N:884:ARG:HH12	1.80	0.44
3:N:630:VAL:CA	3:N:744:GLN:HG2	2.43	0.44
1:A:161:ARG:HB2	1:A:161:ARG:NH1	2.32	0.44
3:D:490:ALA:HB2	9:D:2277:HOH:O	2.17	0.44
3:N:1397:LYS:HE3	9:N:2103:HOH:O	2.16	0.44
3:D:153:LEU:HB3	9:D:2369:HOH:O	2.17	0.44
1:L:185:ARG:HG3	1:L:190:THR:HG23	2.00	0.44
5:F:407:LYS:HD2	9:F:568:HOH:O	2.17	0.44
1:K:108:GLU:HG2	9:K:1619:HOH:O	2.18	0.44
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.47	0.44
3:N:1129:THR:HA	9:N:9203:HOH:O	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1130:ARG:NH1	9:N:9644:HOH:O	2.49	0.44
3:N:840:LYS:HB3	3:N:841:TYR:CD2	2.53	0.44
3:N:650:LEU:HD22	3:N:688:TRP:CH2	2.53	0.44
1:L:105:GLY:O	1:L:132:LEU:HB3	2.17	0.44
3:N:107:ASP:OD2	3:N:1445:HIS:HA	2.17	0.44
2:C:44:ILE:HD13	2:C:344:PHE:CG	2.52	0.44
3:D:592:THR:N	3:D:600:LEU:HD21	2.33	0.44
3:N:221:ALA:HB2	9:N:2086:HOH:O	2.16	0.44
2:C:81:ASP:HB3	9:C:2112:HOH:O	2.17	0.44
3:D:202:VAL:HG22	9:D:9849:HOH:O	2.17	0.44
5:P:192:LEU:O	5:P:196:VAL:HG23	2.18	0.44
3:D:603:LEU:HA	3:D:606:ILE:CG1	2.48	0.44
3:N:187:LYS:HA	3:N:187:LYS:HD3	1.67	0.44
2:C:207:LEU:HD22	2:C:221:LEU:HD22	2.00	0.44
5:F:102:LEU:HD12	5:F:187:LEU:HG	1.99	0.44
3:D:1474:ALA:C	9:D:2639:HOH:O	2.55	0.44
2:M:185:LYS:HB3	2:M:188:LYS:O	2.18	0.44
5:P:361:LEU:HD13	5:P:366:ALA:HB2	2.00	0.44
3:N:1395:LEU:HD13	3:N:1399:ASP:OD2	2.18	0.44
3:N:18:ILE:HA	3:N:21:TRP:CE3	2.53	0.44
1:B:90:LEU:HB3	9:B:530:HOH:O	2.18	0.44
3:D:953:ASP:O	3:D:955:VAL:HG23	2.17	0.44
2:M:396:ASP:HB3	2:M:406:HIS:CD2	2.53	0.44
1:A:9:PRO:HB3	1:A:25:LEU:CD2	2.47	0.44
3:N:470:LEU:H	3:N:470:LEU:HD23	1.83	0.44
2:C:8:ARG:HD2	2:C:10:ARG:CZ	2.47	0.44
2:C:21:ILE:HD11	2:C:455:LEU:HD11	1.98	0.44
2:C:119:PRO:HD3	9:C:9544:HOH:O	2.18	0.44
3:N:886:VAL:HG13	3:N:930:LEU:CD1	2.48	0.44
3:D:1107:VAL:HG21	3:D:1215:VAL:HG11	2.00	0.44
2:C:471:TYR:HB3	9:C:9955:HOH:O	2.17	0.44
3:D:818:ARG:HD2	9:D:9655:HOH:O	2.17	0.44
2:C:954:THR:OG1	2:C:957:LYS:HG3	2.17	0.44
2:C:525:SER:OG	2:C:528:GLU:HG3	2.17	0.44
4:O:61:GLU:HG3	4:O:61:GLU:H	1.56	0.44
3:D:657:LEU:O	3:D:661:MET:HG2	2.16	0.44
1:B:149:GLY:O	1:B:171:PHE:HB2	2.18	0.44
2:C:896:PHE:O	2:C:924:VAL:HG11	2.17	0.44
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.47	0.44
5:P:84:TYR:HA	5:P:87:GLU:OE2	2.17	0.44
3:N:195:VAL:HG22	9:N:9164:HOH:O	2.17	0.44
2:C:260:LEU:HD23	2:C:261:ILE:CG1	2.47	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:759:THR:HB	2:M:785:VAL:HG22	1.99	0.44
2:C:52:PHE:O	2:C:54:ILE:N	2.51	0.44
1:A:24:VAL:HG22	1:A:196:THR:CG2	2.47	0.44
3:D:796:ARG:O	3:D:828:LYS:HB2	2.17	0.44
5:F:398:ARG:HH11	5:F:398:ARG:HG3	1.82	0.44
2:C:670:GLN:HE22	2:C:699:PHE:CA	2.31	0.44
2:C:577:PRO:HG3	2:C:993:PHE:CD2	2.53	0.44
2:C:135:VAL:CG1	2:C:407:LYS:HA	2.47	0.44
2:C:631:SER:HB3	2:C:637:LEU:HD21	1.99	0.44
3:D:670:VAL:HG22	9:D:9268:HOH:O	2.16	0.44
2:M:18:LEU:HD21	2:M:542:VAL:HG21	1.99	0.44
2:M:410:ILE:N	2:M:453:THR:O	2.43	0.44
5:P:315:VAL:HG12	5:P:316:SER:N	2.32	0.44
2:C:835:VAL:HA	2:C:849:VAL:HB	1.99	0.44
3:N:1109:GLU:HG2	3:N:1202:GLN:N	2.32	0.44
3:N:1209:LEU:CD2	3:N:1211:MET:H	2.31	0.44
2:M:1043:TYR:CE1	3:N:710:ARG:HB2	2.53	0.44
3:D:1495:ILE:O	3:D:1498:ALA:HB3	2.18	0.44
3:N:161:LEU:HA	9:N:9501:HOH:O	2.17	0.44
2:C:173:ASP:O	2:C:184:MET:HA	2.17	0.44
3:D:1236:LEU:CA	3:D:1359:GLN:HE22	2.28	0.44
3:D:884:ARG:HG3	9:D:2095:HOH:O	2.18	0.44
3:D:1376:MET:CE	3:D:1421:LEU:HD12	2.48	0.44
3:N:610:LYS:C	3:N:611:GLN:HG2	2.38	0.44
3:D:783:ARG:HD3	3:D:1029:ARG:HG3	2.00	0.44
2:C:863:ASP:O	2:C:865:THR:N	2.51	0.44
2:M:256:TYR:HB3	9:M:2098:HOH:O	2.17	0.44
2:C:720:GLU:HG2	2:C:760:SER:HB3	2.00	0.44
3:D:996:TRP:HB2	3:D:1044:LEU:HD11	1.98	0.44
5:F:179:GLU:O	5:F:182:ALA:HB3	2.17	0.44
3:D:797:LYS:N	3:D:797:LYS:HD2	2.33	0.44
3:D:196:VAL:HG13	3:D:202:VAL:CG1	2.48	0.44
3:D:1244:GLY:HA2	9:D:2269:HOH:O	2.18	0.44
2:C:188:LYS:HG2	9:C:9660:HOH:O	2.17	0.44
3:D:1464:GLU:HG2	3:D:1464:GLU:H	1.60	0.44
2:M:324:ASP:O	2:M:327:HIS:HB2	2.18	0.44
2:C:1050:GLN:HG3	9:D:9424:HOH:O	2.18	0.44
3:D:118:LEU:HB3	3:D:123:LEU:HD13	2.00	0.43
3:D:396:VAL:CG2	3:D:447:VAL:HB	2.44	0.43
2:M:196:LEU:O	2:M:199:VAL:HB	2.18	0.43
3:N:565:ILE:CD1	5:P:189:GLU:HG2	2.48	0.43
3:N:423:ASP:OD1	5:P:175:HIS:ND1	2.51	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:443:VAL:CG1	3:N:445:ARG:HH21	2.30	0.43
3:D:50:PHE:HB3	3:D:522:PRO:HG2	1.99	0.43
2:C:433:THR:C	2:C:435:TYR:H	2.22	0.43
3:D:566:ILE:CG2	5:F:214:GLN:HE22	2.29	0.43
5:F:215:GLU:O	5:F:218:GLN:HB3	2.18	0.43
3:D:543:LEU:HD22	3:D:580:ALA:HB1	1.99	0.43
2:C:548:PRO:HB2	2:C:549:PHE:H	1.68	0.43
2:C:885:ILE:HD12	3:D:949:ILE:HB	2.00	0.43
3:D:1432:LYS:CG	3:D:1433:SER:H	2.30	0.43
2:C:674:VAL:HB	2:C:869:VAL:HG13	1.99	0.43
2:C:694:LEU:HD21	2:C:868:ASP:OD2	2.18	0.43
3:D:1128:VAL:O	3:D:1129:THR:C	2.56	0.43
2:M:12:VAL:CG1	2:M:534:VAL:HG13	2.48	0.43
1:L:51:THR:HA	1:L:145:ASP:O	2.16	0.43
2:C:820:ARG:HA	9:C:2038:HOH:O	2.17	0.43
1:A:5:LYS:HE3	1:A:5:LYS:HA	2.00	0.43
3:D:397:LYS:NZ	3:D:399:ARG:HH21	2.16	0.43
2:M:448:ASN:HA	2:M:451:LEU:CD1	2.48	0.43
5:P:260:ILE:HD11	5:P:310:ILE:CG2	2.46	0.43
3:N:34:TYR:OH	5:P:264:MET:HG3	2.18	0.43
2:C:138:SER:HB2	2:C:410:ILE:HG13	2.00	0.43
3:N:972:LEU:HG	3:N:976:GLN:NE2	2.33	0.43
2:M:1079:PRO:HA	9:M:2082:HOH:O	2.16	0.43
2:C:222:MET:HE3	9:C:2066:HOH:O	2.18	0.43
3:D:1183:ILE:HG21	9:D:9795:HOH:O	2.17	0.43
3:N:1041:LEU:HD12	3:N:1058:ARG:HA	2.00	0.43
1:B:207:PRO:HD2	9:B:588:HOH:O	2.18	0.43
2:M:480:THR:HG22	2:M:482:GLU:H	1.82	0.43
3:D:1405:GLU:CD	3:D:1413:THR:HB	2.38	0.43
5:P:418:LEU:HB3	9:P:526:HOH:O	2.18	0.43
2:C:850:ALA:HA	3:D:632:VAL:HG11	1.99	0.43
2:M:311:PHE:HB3	9:M:1584:HOH:O	2.17	0.43
3:N:543:LEU:CD1	3:N:581:LEU:HA	2.48	0.43
3:D:103:TRP:HE1	3:D:604:THR:CG2	2.30	0.43
2:M:289:THR:O	2:M:291:ALA:N	2.51	0.43
1:L:1:MET:HG3	1:L:2:LEU:N	2.32	0.43
3:D:1468:LEU:HD23	3:D:1468:LEU:O	2.18	0.43
3:D:563:PRO:HG3	5:F:188:ILE:HG21	2.01	0.43
2:M:8:ARG:HA	2:M:8:ARG:HD3	1.76	0.43
3:N:50:PHE:CB	3:N:522:PRO:HG2	2.47	0.43
3:D:781:PRO:HB3	3:D:785:ILE:HB	1.99	0.43
3:N:645:PRO:HG3	3:N:725:SER:O	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:395:LYS:HD3	2:C:397:GLU:OE2	2.19	0.43
4:O:47:LYS:N	4:O:54:LEU:HD22	2.33	0.43
2:M:461:VAL:HG13	2:M:465:GLY:HA2	2.00	0.43
1:L:51:THR:HG22	9:L:1365:HOH:O	2.18	0.43
2:C:839:LEU:N	2:C:839:LEU:HD23	2.33	0.43
3:N:1216:SER:HB3	4:O:16:LYS:H	1.81	0.43
2:C:943:VAL:HG11	2:C:973:VAL:CG2	2.48	0.43
2:C:1060:ILE:CD1	2:C:1063:ARG:HH12	2.28	0.43
3:D:703:ASN:ND2	3:D:704:ARG:H	2.15	0.43
3:N:989:TYR:OH	3:N:1052:THR:HG23	2.17	0.43
1:L:80:LEU:CD1	3:N:842:VAL:HB	2.49	0.43
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.53	0.43
3:D:790:TYR:CD1	3:D:1022:VAL:HG13	2.53	0.43
3:D:484:PRO:HG3	9:D:9613:HOH:O	2.17	0.43
1:A:101:LEU:HA	9:A:375:HOH:O	2.19	0.43
2:C:958:THR:HG21	9:C:9189:HOH:O	2.18	0.43
2:C:348:LEU:HD23	9:C:9915:HOH:O	2.18	0.43
5:F:416:ARG:HG2	9:F:464:HOH:O	2.18	0.43
2:M:881:ASN:N	2:M:881:ASN:ND2	2.65	0.43
3:N:975:GLU:HG3	9:N:9202:HOH:O	2.17	0.43
5:F:201:LYS:NZ	9:F:841:HOH:O	2.50	0.43
3:N:769:LEU:HD12	3:N:769:LEU:H	1.83	0.43
3:D:1161:GLU:HG2	3:D:1161:GLU:H	1.67	0.43
2:C:942:GLU:HG3	9:C:2219:HOH:O	2.19	0.43
5:P:164:LYS:HA	5:P:171:LYS:HZ3	1.83	0.43
3:N:1036:ARG:HE	3:N:1042:ARG:HA	1.84	0.43
3:D:526:PRO:HG2	9:D:2043:HOH:O	2.18	0.43
3:D:62:LYS:HE2	3:D:75:ARG:CZ	2.47	0.43
2:M:164:PRO:HD2	2:M:170:PRO:O	2.18	0.43
3:D:1397:LYS:NZ	3:D:1432:LYS:HB3	2.33	0.43
3:N:1109:GLU:CG	3:N:1202:GLN:H	2.32	0.43
1:L:19:GLU:O	1:L:200:TRP:HA	2.18	0.43
2:C:413:LEU:HB3	9:C:9485:HOH:O	2.18	0.43
2:M:402:SER:HB2	2:M:566:THR:O	2.18	0.43
5:F:153:PRO:CG	5:F:154:LYS:H	2.32	0.43
2:C:643:VAL:HG13	2:C:647:GLN:OE1	2.18	0.43
3:N:1344:VAL:O	3:N:1348:LEU:HD23	2.19	0.43
3:D:783:ARG:NE	3:D:1029:ARG:CZ	2.82	0.43
3:D:1254:GLN:OE1	3:D:1254:GLN:HA	2.17	0.43
2:C:31:GLN:HE21	2:C:31:GLN:HB3	1.64	0.43
3:D:1087:ARG:HB2	3:D:1087:ARG:CZ	2.48	0.43
1:B:80:LEU:HD23	3:D:867:ARG:HH12	1.83	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:64:LEU:CD1	2:M:100:LEU:HD13	2.48	0.43
2:M:252:LYS:HZ2	2:M:296:GLY:HA3	1.82	0.43
2:C:1057:SER:HB2	3:D:622:ARG:O	2.18	0.43
5:P:280:GLN:OE1	5:P:281:GLU:HB2	2.18	0.43
3:N:1312:LEU:HD13	9:N:2318:HOH:O	2.18	0.43
4:E:87:LYS:HD2	9:E:124:HOH:O	2.18	0.43
2:C:6:PHE:CE2	2:C:913:GLU:HG2	2.53	0.43
3:D:829:VAL:O	3:D:835:SER:HB2	2.18	0.43
2:C:620:LEU:O	2:C:620:LEU:HD22	2.17	0.43
3:N:180:LYS:HB2	9:N:9411:HOH:O	2.18	0.43
3:D:428:LYS:HD2	9:D:2762:HOH:O	2.19	0.43
3:N:1485:GLN:O	4:O:75:PHE:HA	2.19	0.43
2:M:21:ILE:HG23	2:M:335:THR:HG22	1.99	0.43
3:N:894:LYS:HA	9:N:9184:HOH:O	2.17	0.43
3:N:399:ARG:HH21	3:N:432:TYR:HE2	1.66	0.43
2:C:873:PRO:HG2	3:D:947:ILE:O	2.18	0.43
3:D:520:LEU:O	3:D:525:ARG:NH1	2.52	0.43
5:F:211:ASP:O	5:F:215:GLU:HG2	2.18	0.43
3:N:73:CYS:HB2	9:N:9127:HOH:O	2.17	0.43
2:C:993:PHE:HE1	2:C:995:MET:SD	2.42	0.43
2:C:521:PRO:HB2	3:D:1055:VAL:CG2	2.48	0.43
2:M:135:VAL:HG11	2:M:407:LYS:HA	2.00	0.43
3:N:1114:THR:HG23	3:N:1116:ASN:HD21	1.82	0.43
2:C:523:ILE:HG22	9:C:2065:HOH:O	2.17	0.43
3:N:850:LEU:HD22	3:N:884:ARG:NH2	2.33	0.43
2:M:163:ILE:HB	2:M:171:TRP:CZ3	2.53	0.43
3:D:137:PRO:HD2	3:D:453:ASP:CB	2.48	0.43
3:N:1462:LEU:HD22	3:N:1472:ILE:CG2	2.47	0.43
2:M:672:VAL:HG23	2:M:868:ASP:CB	2.45	0.43
3:D:1267:ARG:HH21	3:D:1271:LYS:HD2	1.82	0.43
2:C:57:GLU:HG3	2:C:58:ASP:OD2	2.18	0.43
3:N:1333:HIS:HB3	9:N:9684:HOH:O	2.17	0.43
3:D:1153:VAL:HG22	9:D:9184:HOH:O	2.18	0.43
2:M:970:GLY:HA2	9:M:1479:HOH:O	2.17	0.43
1:K:20:TYR:HE2	1:K:198:ARG:HB3	1.82	0.43
3:N:1302:GLU:OE2	3:N:1304:LYS:HG2	2.18	0.43
3:D:1330:ILE:HD12	3:D:1347:TYR:HE1	1.79	0.43
2:M:817:PRO:C	2:M:819:VAL:H	2.21	0.43
3:D:99:ALA:HB3	3:D:578:VAL:HG21	2.00	0.43
3:N:103:TRP:CH2	3:N:1447:LEU:HD23	2.53	0.43
2:M:811:PRO:HA	9:M:1275:HOH:O	2.17	0.43
2:C:572:ILE:HG21	2:C:703:ILE:HD13	2.01	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:789:SER:HB2	9:C:9460:HOH:O	2.18	0.43
3:N:1161:GLU:HB2	9:N:2258:HOH:O	2.18	0.43
2:C:589:ARG:HH11	2:C:589:ARG:HB2	1.84	0.43
3:D:994:GLN:HE21	3:D:994:GLN:HA	1.83	0.43
3:D:757:ALA:CB	4:E:24:ALA:HB2	2.49	0.43
3:D:229:ALA:HB2	9:D:2743:HOH:O	2.18	0.43
3:N:901:GLN:NE2	9:N:9586:HOH:O	2.51	0.43
2:M:191:PHE:HB2	9:M:1708:HOH:O	2.19	0.43
2:M:200:LEU:H	2:M:200:LEU:HG	1.66	0.43
3:N:434:ARG:HB2	3:N:447:VAL:CG2	2.48	0.43
1:K:38:ASN:HB3	1:K:39:PRO:HD3	2.00	0.43
2:C:1085:PHE:CD1	2:C:1085:PHE:C	2.91	0.43
3:N:214:GLU:HG3	3:N:390:PRO:HB2	2.01	0.43
2:C:302:VAL:O	2:C:305:PRO:HD2	2.19	0.43
3:N:55:ASP:CA	3:N:82:LYS:HE2	2.48	0.43
3:D:1462:LEU:HD22	3:D:1472:ILE:CG2	2.47	0.43
2:C:560:MET:O	2:C:564:MET:HB2	2.18	0.43
2:C:975:TYR:HA	2:C:982:PRO:HA	2.00	0.43
4:O:54:LEU:HD12	4:O:58:PRO:HG2	1.99	0.43
3:N:22:SER:OG	3:N:91:GLY:HA2	2.19	0.43
3:N:105:VAL:CG2	3:N:128:TYR:HE2	2.23	0.43
2:M:137:VAL:O	2:M:391:LEU:HD21	2.18	0.43
2:M:1039:ALA:HB2	3:N:707:THR:HG21	2.00	0.43
1:B:156:HIS:CE1	1:B:158:ILE:H	2.36	0.43
1:A:59:GLU:HB2	1:A:139:ASN:ND2	2.34	0.43
3:N:1264:GLU:HG2	3:N:1266:ARG:NH2	2.34	0.43
3:D:1232:PRO:HB3	3:D:1361:VAL:CG2	2.47	0.43
3:D:704:ARG:HH12	3:D:738:ALA:HA	1.82	0.43
3:D:957:PRO:HB3	3:D:959:GLU:OE1	2.18	0.43
3:N:1012:GLU:HG2	3:N:1013:GLU:HG2	2.00	0.43
3:D:1093:TYR:HE1	3:D:1260:ILE:HD11	1.83	0.43
3:D:890:VAL:HG11	3:D:922:LEU:HD13	2.00	0.43
1:K:111:ALA:HB3	1:K:124:ASN:O	2.19	0.43
1:A:99:LEU:HD23	1:A:122:ILE:HD11	2.01	0.43
2:M:56:GLU:CG	2:M:64:LEU:HD23	2.48	0.43
1:K:19:GLU:O	1:K:200:TRP:HA	2.18	0.43
1:K:19:GLU:HG3	1:K:201:THR:O	2.18	0.43
5:P:309:LYS:HA	5:P:309:LYS:HD3	1.81	0.43
2:C:48:PHE:CD1	2:C:348:LEU:HD21	2.53	0.43
2:C:742:VAL:HB	9:C:9293:HOH:O	2.18	0.43
2:C:742:VAL:HG12	2:C:743:VAL:N	2.33	0.43
3:D:1094:LEU:O	3:D:1098:LEU:HD13	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:233:LYS:HA	9:D:9728:HOH:O	2.18	0.43
5:P:215:GLU:HA	5:P:215:GLU:OE1	2.18	0.43
1:L:62:LEU:HD12	1:L:62:LEU:N	2.34	0.43
5:P:113:ILE:HG23	5:P:127:ILE:CG2	2.48	0.43
5:P:174:LEU:HD11	9:P:633:HOH:O	2.17	0.43
2:M:878:SER:HA	3:N:1034:GLN:OE1	2.18	0.43
3:D:1422:MET:CE	3:D:1427:SER:HA	2.48	0.43
2:C:170:PRO:HG2	2:C:258:TYR:CE2	2.54	0.43
3:D:550:ARG:HH11	3:D:573:MET:HB3	1.82	0.43
1:A:188:GLN:HG3	1:A:188:GLN:H	1.54	0.43
1:A:29:GLU:HB3	1:A:30:ARG:H	1.55	0.43
3:N:80:VAL:HG12	3:N:81:THR:O	2.18	0.43
4:E:10:PHE:O	4:E:13:VAL:HG22	2.18	0.43
3:D:908:LYS:CG	3:D:1027:GLY:HA3	2.48	0.43
5:F:306:GLU:OE1	5:F:310:ILE:HD11	2.18	0.43
1:A:72:LYS:HE2	2:C:641:PRO:HB2	2.00	0.43
2:M:503:LEU:CD1	2:M:505:GLY:H	2.31	0.43
2:M:140:ILE:N	2:M:140:ILE:HD12	2.33	0.43
5:F:195:VAL:HG22	5:F:243:ILE:HD13	2.00	0.43
1:B:11:PHE:HA	9:B:327:HOH:O	2.19	0.43
2:M:98:LEU:HG	9:M:2168:HOH:O	2.19	0.43
2:C:405:ARG:HH12	2:C:563:ASN:ND2	2.16	0.43
3:D:156:GLU:CD	3:D:156:GLU:N	2.70	0.43
3:N:1123:PHE:CE2	3:N:1184:GLN:HA	2.54	0.43
3:N:1243:THR:CB	3:N:1253:THR:HB	2.48	0.43
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.53	0.43
1:A:53:VAL:HG21	1:A:82:LEU:HD22	1.99	0.43
3:D:930:LEU:O	3:D:934:LEU:HG	2.18	0.43
3:N:411:THR:HG22	9:N:9158:HOH:O	2.19	0.43
2:M:767:PRO:HG3	9:M:1541:HOH:O	2.18	0.43
1:L:88:ARG:HH12	1:L:90:LEU:HA	1.83	0.43
2:C:269:LEU:HD23	9:C:9593:HOH:O	2.19	0.43
5:F:339:PRO:HB3	5:F:343:ASP:HB2	2.01	0.43
3:N:1143:GLY:HA2	3:N:1365:ASP:OD1	2.18	0.43
2:M:826:TYR:N	2:M:826:TYR:CD1	2.86	0.43
1:L:68:ILE:H	1:L:68:ILE:HD12	1.84	0.43
3:N:793:THR:O	3:N:879:ARG:HD3	2.19	0.43
2:M:555:ALA:HA	3:N:1070:TYR:OH	2.18	0.43
3:D:162:ARG:O	3:D:434:ARG:HG3	2.18	0.43
2:M:1032:PHE:O	3:N:620:GLY:HA2	2.19	0.43
3:D:560:GLN:HG2	5:F:218:GLN:HE22	1.83	0.43
5:F:140:ARG:HG3	5:F:140:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1379:VAL:HA	3:N:1420:LEU:CB	2.48	0.43
5:F:260:ILE:CG2	5:F:264:MET:HB2	2.39	0.43
2:C:577:PRO:HD2	2:C:580:MET:HG2	2.01	0.43
5:F:412:GLU:HG3	5:F:418:LEU:HD22	2.00	0.43
3:N:1384:PRO:HG2	9:N:2066:HOH:O	2.19	0.43
4:O:48:MET:CB	4:O:54:LEU:HB2	2.49	0.43
1:L:30:ARG:HA	9:L:6862:HOH:O	2.18	0.43
2:C:451:LEU:N	9:C:9147:HOH:O	2.49	0.43
3:N:1156:LEU:HG	3:N:1177:ALA:HB2	2.01	0.43
3:N:461:ILE:O	3:N:465:LEU:HB2	2.19	0.43
2:C:8:ARG:HA	2:C:8:ARG:HD3	1.92	0.43
2:M:399:ASN:OD1	2:M:568:ALA:HB3	2.17	0.43
2:M:448:ASN:HA	2:M:451:LEU:HD12	2.00	0.43
3:D:715:ALA:O	3:D:764:LEU:HD12	2.18	0.43
3:D:1237:THR:HG22	3:D:1238:MET:N	2.34	0.43
2:C:781:LYS:HA	9:C:9466:HOH:O	2.18	0.43
3:N:961:LYS:HG2	9:N:9370:HOH:O	2.17	0.43
2:C:259:GLY:HA3	9:C:9114:HOH:O	2.18	0.43
3:N:1377:LYS:HG2	3:N:1378:TYR:CE1	2.54	0.43
2:C:795:GLY:HA2	9:C:9958:HOH:O	2.19	0.43
2:M:304:LEU:HD23	2:M:305:PRO:HD3	2.00	0.43
2:M:969:GLN:HE21	2:M:969:GLN:HB3	1.70	0.43
2:C:724:ARG:HH22	2:C:734:LEU:HB3	1.84	0.43
3:D:187:LYS:HB3	9:D:9776:HOH:O	2.18	0.43
3:N:820:GLU:HA	3:N:825:ALA:O	2.19	0.43
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.00	0.43
3:D:161:LEU:HD13	3:D:452:ILE:HD12	2.01	0.43
3:N:81:THR:O	3:N:82:LYS:O	2.36	0.43
2:C:548:PRO:HD2	2:C:843:HIS:CE1	2.54	0.43
2:M:836:GLY:HA2	3:N:725:SER:OG	2.19	0.43
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.48	0.43
2:C:1043:TYR:HE2	3:D:768:ASN:ND2	2.16	0.43
1:B:44:LEU:HD23	1:B:48:ILE:CD1	2.48	0.43
2:C:1103:ASP:N	2:C:1107:ASN:O	2.51	0.43
2:C:8:ARG:HH11	2:C:10:ARG:HH22	1.66	0.43
2:M:704:HIS:HB3	2:M:831:ARG:HE	1.81	0.43
3:N:35:ARG:HG3	3:N:36:THR:N	2.34	0.43
2:C:195:LEU:HD21	2:C:238:LEU:HG	2.00	0.43
2:M:206:THR:HG21	9:M:1185:HOH:O	2.18	0.43
2:M:750:LYS:HB3	9:N:9537:HOH:O	2.18	0.43
1:B:138:LEU:HA	9:B:340:HOH:O	2.18	0.43
3:D:35:ARG:HG3	3:D:35:ARG:HH11	1.83	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:645:PRO:HG3	3:D:725:SER:O	2.18	0.43
3:N:703:ASN:HD22	3:N:713:ILE:HD11	1.84	0.43
2:C:758:ARG:HG2	2:C:758:ARG:HH11	1.83	0.43
3:N:846:PRO:HA	9:N:9225:HOH:O	2.18	0.43
2:M:57:GLU:O	2:M:62:GLY:HA3	2.18	0.43
3:D:853:VAL:CG2	3:D:858:VAL:HG23	2.48	0.43
1:L:137:ARG:NH1	1:L:137:ARG:HB3	2.34	0.43
1:B:64:GLU:HB3	9:B:391:HOH:O	2.17	0.43
5:F:340:SER:O	5:F:342:VAL:N	2.52	0.43
3:D:163:TYR:O	3:D:447:VAL:HG21	2.19	0.43
2:M:196:LEU:O	2:M:200:LEU:HG	2.19	0.43
3:N:421:LEU:HD11	3:N:437:VAL:HG22	2.00	0.43
3:D:84:ILE:HA	3:D:87:ARG:HG2	2.01	0.43
2:M:10:ARG:HD2	9:M:1620:HOH:O	2.18	0.43
3:N:81:THR:HG22	3:N:82:LYS:N	2.33	0.43
2:C:338:GLU:O	2:C:341:THR:HG22	2.19	0.43
3:D:444:VAL:HG22	3:D:444:VAL:O	2.17	0.43
1:L:194:LYS:HG2	9:L:1860:HOH:O	2.18	0.43
5:P:260:ILE:CG2	5:P:264:MET:HB2	2.45	0.43
5:F:402:ASN:HA	5:F:405:LEU:CD2	2.47	0.43
2:C:185:LYS:HA	9:C:9171:HOH:O	2.18	0.43
2:C:121:MET:HG3	2:C:127:PHE:CE2	2.54	0.43
2:C:648:ARG:HG3	9:C:2118:HOH:O	2.19	0.43
3:D:679:ARG:HB2	3:D:682:ASP:OD2	2.19	0.43
3:D:1318:TYR:HD1	3:D:1319:VAL:N	2.16	0.43
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.33	0.43
1:L:205:VAL:HG23	1:L:206:THR:N	2.34	0.43
2:M:722:ILE:HG23	2:M:722:ILE:O	2.19	0.43
3:D:924:MET:HG3	9:D:2267:HOH:O	2.19	0.43
1:A:117:VAL:HB	1:A:120:VAL:CG1	2.48	0.43
4:O:33:HIS:CD2	4:O:89:MET:HG2	2.54	0.43
3:N:1415:VAL:HG23	3:N:1415:VAL:O	2.19	0.43
3:D:684:LYS:HG2	9:D:9634:HOH:O	2.17	0.43
3:N:486:ARG:HA	3:N:489:ARG:CD	2.47	0.43
1:B:123:MET:O	1:B:125:PRO:HD3	2.19	0.43
1:L:86:VAL:O	1:L:86:VAL:HG13	2.18	0.43
2:M:92:ALA:HB1	9:M:1326:HOH:O	2.18	0.43
3:D:820:GLU:HG3	3:D:836:VAL:HG11	2.00	0.43
1:B:59:GLU:HG2	9:B:461:HOH:O	2.19	0.43
2:C:787:ASP:C	2:C:787:ASP:OD1	2.57	0.43
5:P:232:ARG:HA	5:P:232:ARG:HD2	1.83	0.43
3:D:921:ARG:HD2	9:D:9512:HOH:O	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:409:VAL:HB	9:D:9702:HOH:O	2.18	0.43
3:D:422:ALA:O	3:D:427:VAL:HG21	2.18	0.43
3:N:399:ARG:HB3	3:N:402:PRO:HG3	2.00	0.43
3:N:1031:ASN:HB3	9:N:9624:HOH:O	2.18	0.43
3:N:87:ARG:HD2	3:N:88:TYR:CE2	2.54	0.43
3:D:493:ARG:HG2	3:D:493:ARG:NH1	2.33	0.43
3:D:183:GLU:HA	3:D:186:VAL:CG1	2.49	0.43
5:F:102:LEU:HD13	5:F:187:LEU:HA	1.99	0.43
3:D:560:GLN:HB2	9:F:462:HOH:O	2.17	0.43
3:D:563:PRO:HG3	3:D:566:ILE:HD12	1.99	0.43
3:D:1310:ARG:CZ	3:D:1327:ARG:HB3	2.48	0.43
3:D:1310:ARG:HG2	3:D:1327:ARG:HB3	2.00	0.43
3:D:1472:ILE:HA	3:D:1473:PRO:HD3	1.83	0.43
3:D:1213:ARG:HB2	3:D:1214:PRO:CD	2.49	0.43
5:F:81:VAL:O	5:F:85:LEU:HG	2.19	0.43
5:P:117:SER:OG	5:P:124:PRO:HG3	2.18	0.43
2:C:611:ILE:HD11	2:C:641:PRO:HG3	2.01	0.43
2:M:547:ILE:HA	2:M:548:PRO:HD3	1.93	0.43
2:M:545:ASN:OD1	2:M:905:ILE:HD11	2.19	0.43
4:O:59:ASN:HB2	9:O:3494:HOH:O	2.19	0.43
2:C:1052:MET:SD	2:C:1056:LYS:HD3	2.58	0.43
3:N:1465:ASN:HD21	3:N:1470:ARG:HH11	1.65	0.43
1:A:20:TYR:HD2	1:A:21:GLY:N	2.08	0.43
2:C:1013:TYR:CZ	2:C:1063:ARG:NE	2.86	0.43
2:C:1063:ARG:HB2	9:D:9247:HOH:O	2.18	0.43
3:D:1236:LEU:HA	3:D:1359:GLN:CD	2.40	0.43
3:N:34:TYR:O	3:N:35:ARG:C	2.57	0.43
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.33	0.43
2:C:20:GLU:HG2	2:C:21:ILE:N	2.34	0.43
2:C:75:GLU:O	2:C:93:PRO:HG2	2.18	0.43
3:D:639:LEU:N	3:D:729:HIS:CD2	2.87	0.43
5:P:416:ARG:HD2	5:P:419:ARG:CB	2.49	0.43
2:M:227:PHE:HA	2:M:230:ARG:HH21	1.84	0.43
1:K:176:ARG:O	1:K:200:TRP:HE3	2.02	0.43
3:N:111:LYS:HD2	3:N:1452:ILE:HG12	2.00	0.43
3:N:688:TRP:HA	3:N:688:TRP:HE3	1.84	0.43
1:L:212:ASN:HA	9:L:2433:HOH:O	2.18	0.43
2:C:73:LEU:HG	9:C:9802:HOH:O	2.18	0.43
5:P:162:LYS:HA	5:P:165:SER:OG	2.18	0.43
3:N:544:TYR:HB3	9:N:9462:HOH:O	2.18	0.43
1:K:229:GLN:HE21	1:K:229:GLN:HB2	1.66	0.43
3:D:825:ALA:HB1	9:D:9252:HOH:O	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
4:E:41:GLU:HA	9:E:136:HOH:O	2.17	0.43
1:L:88:ARG:HD2	9:L:1915:HOH:O	2.17	0.43
2:C:1089:VAL:O	2:C:1093:GLN:HG2	2.19	0.43
3:N:759:ALA:HA	3:N:763:MET:HB3	2.00	0.43
3:N:494:LYS:HA	3:N:497:GLU:CD	2.40	0.43
3:N:482:LYS:HE3	9:N:9201:HOH:O	2.18	0.43
2:M:1056:LYS:HD2	9:M:1234:HOH:O	2.19	0.43
2:M:405:ARG:NH1	2:M:442:GLU:HG2	2.33	0.42
3:N:440:VAL:HG12	3:N:441:ARG:N	2.34	0.42
2:C:1088:LEU:HD21	2:C:1092:LEU:HD12	2.01	0.42
2:C:301:GLU:O	2:C:305:PRO:HG2	2.19	0.42
3:D:213:VAL:HG11	9:D:9561:HOH:O	2.19	0.42
3:D:553:ARG:NH1	5:F:214:GLN:HB2	2.34	0.42
1:A:189:ARG:HD2	1:A:191:ASP:OD2	2.18	0.42
1:K:195:LEU:HD12	1:K:196:THR:N	2.34	0.42
2:C:886:LEU:HD23	3:D:951:ILE:CG1	2.48	0.42
2:C:339:LEU:HG	9:C:9652:HOH:O	2.19	0.42
3:N:1026:SER:C	3:N:1028:ALA:H	2.21	0.42
4:E:72:ARG:NH2	9:E:102:HOH:O	2.50	0.42
2:M:473:ARG:HD3	2:M:474:VAL:N	2.34	0.42
3:N:123:LEU:HD21	3:N:152:LEU:HD22	2.01	0.42
1:L:51:THR:OG1	1:L:87:VAL:HG22	2.19	0.42
2:M:274:ARG:NE	9:M:2049:HOH:O	2.52	0.42
2:C:36:PRO:HB2	2:C:70:GLU:HG2	2.01	0.42
3:N:1045:MET:CG	3:N:1073:SER:HA	2.44	0.42
3:N:654:LYS:CD	3:N:674:ARG:HH22	2.31	0.42
1:A:9:PRO:HB3	1:A:25:LEU:CG	2.48	0.42
5:P:254:GLN:HA	9:P:707:HOH:O	2.19	0.42
3:D:1359:GLN:HE21	3:D:1359:GLN:HB3	1.59	0.42
1:L:186:LEU:N	9:L:1387:HOH:O	2.50	0.42
3:D:703:ASN:ND2	3:D:707:THR:HG23	2.33	0.42
3:N:1310:ARG:N	9:N:9288:HOH:O	2.51	0.42
1:K:131:THR:HG22	9:K:1923:HOH:O	2.17	0.42
3:N:169:TYR:N	3:N:170:PRO:HD3	2.34	0.42
3:D:1299:PHE:HD2	3:D:1299:PHE:N	2.16	0.42
3:D:764:LEU:HD23	3:D:767:HIS:CE1	2.52	0.42
2:M:770:GLU:N	9:M:1470:HOH:O	2.48	0.42
3:D:924:MET:O	3:D:927:THR:HB	2.19	0.42
2:M:242:LEU:HD23	2:M:243:ARG:H	1.84	0.42
2:M:261:ILE:HG21	9:M:1419:HOH:O	2.19	0.42
3:D:416:ALA:HB3	3:D:417:PRO:HD3	2.01	0.42
2:C:118:ILE:O	2:C:118:ILE:HD12	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:58:ASP:O	2:M:59:LYS:HG3	2.18	0.42
2:C:310:LEU:HD12	2:C:310:LEU:HA	1.86	0.42
2:M:692:GLU:HB2	2:M:853:LEU:O	2.19	0.42
2:C:313:LEU:HD12	2:C:313:LEU:O	2.19	0.42
3:N:551:ASN:O	3:N:555:LYS:HD2	2.20	0.42
5:F:273:ARG:HG2	9:F:622:HOH:O	2.19	0.42
3:N:1379:VAL:CG1	3:N:1395:LEU:HD23	2.47	0.42
3:N:1406:ARG:HG2	3:N:1407:LEU:HD13	2.00	0.42
3:N:950:GLY:C	3:N:952:ASP:N	2.70	0.42
2:M:473:ARG:HD2	2:M:475:VAL:CG2	2.49	0.42
2:M:18:LEU:HD23	2:M:404:LEU:CD2	2.49	0.42
2:M:139:GLN:CG	2:M:418:LEU:HD22	2.49	0.42
3:N:587:ARG:HB2	9:N:2283:HOH:O	2.19	0.42
4:O:10:PHE:HE2	4:O:16:LYS:HG3	1.83	0.42
1:L:89:PHE:CZ	1:L:146:ARG:HB3	2.54	0.42
3:N:630:VAL:HG12	3:N:631:ILE:N	2.33	0.42
2:M:265:ARG:HD3	2:M:267:TYR:HB3	2.00	0.42
3:N:1187:PRO:HG2	9:N:9329:HOH:O	2.19	0.42
1:B:85:LEU:HD12	1:B:124:ASN:HB3	2.00	0.42
5:P:133:ALA:HB2	5:P:142:ARG:HE	1.84	0.42
2:M:486:MET:CE	2:M:491:GLU:HA	2.49	0.42
3:D:1295:GLU:HB3	3:D:1300:SER:OG	2.19	0.42
5:F:375:LEU:HD23	5:F:376:ILE:HG13	2.02	0.42
2:C:220:GLY:HA3	9:C:9396:HOH:O	2.19	0.42
3:D:886:VAL:HG13	3:D:930:LEU:HD13	2.00	0.42
3:N:455:ARG:HB3	3:N:460:ALA:HB2	2.00	0.42
2:C:910:LYS:HG3	9:C:9658:HOH:O	2.19	0.42
2:M:353:ARG:HG2	9:M:1432:HOH:O	2.19	0.42
3:N:163:TYR:HE2	3:N:167:GLU:OE2	2.02	0.42
2:C:230:ARG:HG3	9:C:9876:HOH:O	2.18	0.42
3:N:168:THR:OG1	3:N:393:ILE:HB	2.20	0.42
3:N:1033:GLN:NE2	3:N:1036:ARG:NH1	2.55	0.42
3:N:521:PRO:O	3:N:525:ARG:NH1	2.53	0.42
2:C:212:GLY:C	2:C:215:GLY:H	2.23	0.42
3:D:389:GLU:HG2	3:D:389:GLU:O	2.19	0.42
3:N:28:LYS:HZ1	3:N:552:ASN:HD22	1.67	0.42
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.54	0.42
2:M:176:VAL:C	2:M:178:PRO:HD3	2.39	0.42
3:D:798:GLU:HA	9:D:2151:HOH:O	2.20	0.42
3:D:804:LEU:N	9:D:2490:HOH:O	2.51	0.42
1:L:65:PHE:HB2	9:L:1369:HOH:O	2.17	0.42
3:D:462:GLN:HA	3:D:513:ILE:CD1	2.47	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:462:GLN:HB3	9:D:2118:HOH:O	2.19	0.42
2:M:899:GLN:HG3	2:M:901:TYR:OH	2.18	0.42
3:N:863:VAL:HG12	9:N:9874:HOH:O	2.17	0.42
3:N:1114:THR:CG2	3:N:1116:ASN:HD21	2.32	0.42
2:M:1037:VAL:HG13	2:M:1049:LEU:HD21	2.01	0.42
2:M:83:CYS:CA	2:M:88:LEU:HB3	2.43	0.42
3:N:728:LEU:HG	3:N:729:HIS:N	2.35	0.42
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.53	0.42
3:D:1379:VAL:HA	3:D:1420:LEU:HB2	2.01	0.42
1:K:44:LEU:HD23	1:K:174:VAL:CG2	2.48	0.42
1:B:111:ALA:O	1:B:114:PHE:HD1	2.02	0.42
3:N:1271:LYS:HE3	3:N:1334:GLN:HE22	1.85	0.42
3:N:1346:ARG:HA	3:N:1346:ARG:NE	2.34	0.42
1:K:123:MET:C	1:K:125:PRO:HD3	2.40	0.42
2:C:817:PRO:C	2:C:819:VAL:H	2.21	0.42
2:C:760:SER:O	2:C:785:VAL:HG22	2.20	0.42
2:C:376:ARG:HB2	2:C:376:ARG:NH1	2.35	0.42
4:E:40:LEU:HD22	9:E:214:HOH:O	2.20	0.42
3:N:958:GLU:HG3	3:N:961:LYS:HE2	2.02	0.42
3:N:221:ALA:HB3	3:N:367:ILE:CB	2.49	0.42
3:N:176:ASP:O	3:N:180:LYS:HG3	2.19	0.42
2:M:938:LYS:O	2:M:942:GLU:HB2	2.19	0.42
1:B:51:THR:HA	1:B:145:ASP:O	2.18	0.42
3:D:938:GLY:O	3:D:942:SER:HB3	2.18	0.42
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.49	0.42
2:C:987:ILE:CG2	3:D:948:THR:HG21	2.29	0.42
3:N:573:MET:SD	5:P:210:LEU:HB3	2.59	0.42
2:M:950:LEU:HA	9:M:1413:HOH:O	2.18	0.42
2:C:1091:GLU:OE1	3:D:613:ARG:HG2	2.19	0.42
2:C:773:LEU:HD22	5:F:373:LYS:CB	2.50	0.42
2:C:260:LEU:HA	2:C:291:ALA:HB1	2.00	0.42
5:F:102:LEU:O	5:F:106:VAL:HG23	2.20	0.42
5:F:95:THR:HG23	5:F:234:LYS:NZ	2.34	0.42
3:D:131:LYS:NZ	9:D:2249:HOH:O	2.52	0.42
2:C:372:LEU:HD21	9:C:9063:HOH:O	2.19	0.42
5:F:400:ILE:HD13	9:F:481:HOH:O	2.19	0.42
5:F:88:ILE:O	5:F:92:PRO:HG3	2.20	0.42
2:M:872:ASN:ND2	2:M:874:LEU:HB2	2.34	0.42
1:A:67:THR:HG21	2:C:627:ARG:NE	2.30	0.42
3:D:1057:VAL:HA	3:D:1069:GLU:OE2	2.19	0.42
4:O:58:PRO:HD2	9:O:5431:HOH:O	2.19	0.42
2:M:897:LEU:CB	2:M:899:GLN:HE21	2.26	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:611:ILE:HD11	2:M:641:PRO:CG	2.49	0.42
3:N:666:ILE:HG22	3:N:684:LYS:NZ	2.35	0.42
3:N:1281:VAL:HG21	3:N:1313:VAL:HG21	2.01	0.42
2:C:1060:ILE:HA	2:C:1063:ARG:NH1	2.35	0.42
1:A:207:PRO:HB2	9:A:395:HOH:O	2.18	0.42
3:D:708:LEU:HD23	3:D:708:LEU:HA	1.88	0.42
1:L:184:THR:O	1:L:192:LEU:HB2	2.19	0.42
5:F:403:LYS:HA	5:F:403:LYS:HZ3	1.83	0.42
4:E:61:GLU:OE2	4:E:62:THR:N	2.52	0.42
3:D:441:ARG:O	3:D:443:VAL:N	2.52	0.42
2:C:1008:ARG:NH2	2:C:1021:LEU:O	2.52	0.42
3:N:1007:VAL:O	3:N:1010:ASN:HB3	2.19	0.42
1:K:72:LYS:HZ1	2:M:644:VAL:HG12	1.85	0.42
3:D:820:GLU:HA	3:D:825:ALA:O	2.20	0.42
3:D:162:ARG:O	3:D:162:ARG:HD3	2.19	0.42
2:M:191:PHE:CE2	2:M:196:LEU:HB2	2.54	0.42
3:N:400:VAL:HG22	9:N:9669:HOH:O	2.19	0.42
3:D:85:VAL:HG12	3:D:89:ARG:HE	1.85	0.42
3:D:93:ILE:HD12	3:D:519:VAL:CG2	2.47	0.42
3:N:525:ARG:N	3:N:526:PRO:HD3	2.35	0.42
5:F:184:ARG:HH21	5:F:221:ILE:CG2	2.33	0.42
3:D:133:ILE:HG22	3:D:455:ARG:C	2.40	0.42
2:C:707:ARG:HG3	2:C:826:TYR:CD1	2.55	0.42
2:C:885:ILE:HG21	3:D:949:ILE:HG22	2.02	0.42
2:M:365:ASP:O	2:M:367:LEU:HD12	2.19	0.42
2:C:853:LEU:HD23	2:C:858:MET:HB3	2.01	0.42
1:A:72:LYS:O	2:C:608:GLY:HA2	2.19	0.42
3:D:146:PRO:HG2	9:D:2681:HOH:O	2.18	0.42
5:F:220:LEU:HD21	5:F:235:PHE:CE2	2.55	0.42
2:C:1019:GLN:HG2	2:C:1019:GLN:H	1.61	0.42
2:M:73:LEU:HD23	2:M:94:LEU:HD22	2.02	0.42
3:N:674:ARG:HD3	9:N:2542:HOH:O	2.18	0.42
3:D:400:VAL:HB	9:D:2574:HOH:O	2.19	0.42
3:N:1101:VAL:CG1	3:N:1428:ALA:HB2	2.49	0.42
3:N:127:LEU:HD11	3:N:461:ILE:HD11	2.01	0.42
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.54	0.42
3:N:1498:ALA:HB2	4:O:88:GLU:OE1	2.19	0.42
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.48	0.42
3:N:34:TYR:N	3:N:34:TYR:CD2	2.87	0.42
5:P:271:LEU:CD1	5:P:307:THR:HB	2.49	0.42
1:A:193:ASP:N	1:A:193:ASP:OD1	2.52	0.42
2:C:164:PRO:HA	9:C:9763:HOH:O	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.49	0.42
1:A:173:PRO:O	1:A:201:THR:HG23	2.19	0.42
2:M:346:VAL:HG12	9:M:2249:HOH:O	2.20	0.42
3:N:65:ARG:HG3	3:N:66:GLN:N	2.32	0.42
1:A:58:ILE:HG21	1:A:68:ILE:HD11	2.01	0.42
3:N:1065:LEU:HD12	3:N:1069:GLU:OE1	2.19	0.42
2:M:603:VAL:HG13	2:M:613:VAL:HG12	2.01	0.42
1:K:211:LEU:O	1:K:215:VAL:HG13	2.19	0.42
5:P:104:ARG:HG2	9:P:571:HOH:O	2.20	0.42
1:L:13:VAL:HG13	1:L:23:PHE:CE1	2.54	0.42
3:D:683:ILE:HG23	3:D:687:VAL:HB	2.00	0.42
1:K:64:GLU:OE2	1:K:76:VAL:HG13	2.19	0.42
1:L:219:ARG:O	1:L:223:THR:HG23	2.19	0.42
1:B:96:THR:HB	9:B:437:HOH:O	2.19	0.42
2:C:323:ASP:HB2	9:C:9484:HOH:O	2.19	0.42
2:M:45:GLN:N	9:M:1760:HOH:O	2.53	0.42
3:N:553:ARG:NH1	9:N:9975:HOH:O	2.52	0.42
3:N:177:ALA:HB1	3:N:199:LEU:HB3	2.01	0.42
3:N:1033:GLN:HB3	9:N:9624:HOH:O	2.20	0.42
3:D:613:ARG:HA	3:D:613:ARG:HD2	1.78	0.42
3:D:62:LYS:N	9:D:9127:HOH:O	2.52	0.42
3:D:175:VAL:HG13	3:D:217:LYS:CB	2.49	0.42
5:F:190:ALA:HB1	9:F:630:HOH:O	2.19	0.42
2:M:368:THR:HB	2:M:369:PRO:CD	2.47	0.42
2:C:464:LEU:HD12	2:C:465:GLY:N	2.34	0.42
3:D:553:ARG:HD2	3:D:570:GLU:CD	2.38	0.42
2:M:182:VAL:HG12	9:M:1903:HOH:O	2.19	0.42
5:P:361:LEU:CD2	5:P:366:ALA:HB2	2.39	0.42
3:N:644:LEU:O	3:N:720:LEU:HA	2.19	0.42
3:N:206:ARG:HH11	3:N:206:ARG:HG2	1.85	0.42
5:F:260:ILE:HD11	5:F:310:ILE:CG2	2.50	0.42
3:N:950:GLY:O	3:N:951:ILE:C	2.55	0.42
2:C:626:ARG:HH12	2:C:637:LEU:CD1	2.31	0.42
2:M:910:LYS:HD2	2:M:910:LYS:N	2.34	0.42
2:M:861:LEU:HD23	2:M:862:PRO:HD2	2.01	0.42
3:N:428:LYS:HB3	3:N:450:TYR:CE1	2.53	0.42
2:M:328:LEU:HD11	2:M:434:HIS:CD2	2.55	0.42
3:N:148:GLU:HB3	3:N:151:GLN:CB	2.45	0.42
1:L:173:PRO:HA	1:L:202:ASP:OD2	2.19	0.42
3:N:1138:ALA:CA	3:N:1141:GLU:HG3	2.44	0.42
2:M:498:GLN:O	2:M:532:MET:SD	2.77	0.42
3:D:535:PHE:HB2	9:D:2022:HOH:O	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.84	0.42
3:D:1271:LYS:HD3	9:D:2230:HOH:O	2.18	0.42
2:M:682:TYR:HB2	9:M:1161:HOH:O	2.20	0.42
2:C:195:LEU:CD1	9:C:2092:HOH:O	2.65	0.42
4:O:31:LEU:HD11	4:O:60:ALA:HB2	2.02	0.42
2:C:640:ARG:CB	2:C:642:ARG:HH12	2.33	0.42
3:D:445:ARG:HG2	3:D:445:ARG:NH1	2.34	0.42
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.48	0.42
2:C:272:ALA:O	2:C:276:LYS:HE3	2.20	0.42
3:N:1197:ARG:HD2	3:N:1198:TYR:CE1	2.55	0.42
2:C:964:LYS:HD2	9:C:9183:HOH:O	2.19	0.42
3:D:724:GLN:N	9:D:2200:HOH:O	2.48	0.42
2:M:3:ILE:HA	2:M:900:ARG:O	2.20	0.42
3:N:852:ALA:O	3:N:857:ILE:HG12	2.20	0.42
1:L:137:ARG:HG3	9:L:2022:HOH:O	2.19	0.42
5:P:352:GLU:O	5:P:356:LYS:HG3	2.19	0.42
3:D:1485:GLN:HG2	3:D:1485:GLN:H	1.64	0.42
9:M:1234:HOH:O	3:N:751:LEU:HD12	2.19	0.42
3:D:1339:LYS:HG2	3:D:1343:ALA:HB2	2.01	0.42
2:M:779:GLY:HA3	9:M:1700:HOH:O	2.20	0.42
3:N:565:ILE:O	3:N:569:ASN:HB2	2.18	0.42
3:N:564:GLU:HA	3:N:567:ILE:HD12	2.02	0.42
5:P:185:GLN:O	5:P:189:GLU:HG3	2.20	0.42
2:C:1097:LEU:HD12	3:D:1451:ALA:HB2	2.02	0.42
3:D:521:PRO:HA	3:D:522:PRO:HD3	1.82	0.42
3:D:525:ARG:HA	3:D:538:SER:CB	2.44	0.42
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	2.01	0.42
3:N:44:LEU:O	3:N:525:ARG:NH2	2.53	0.42
5:F:369:LEU:HA	9:F:706:HOH:O	2.19	0.42
3:D:186:VAL:HG11	3:D:213:VAL:HB	2.00	0.42
3:N:13:ALA:O	3:N:511:TRP:HB3	2.19	0.42
3:D:553:ARG:HH11	5:F:214:GLN:CB	2.33	0.42
5:F:196:VAL:HG13	5:F:213:ILE:CD1	2.50	0.42
5:F:218:GLN:HG2	9:F:817:HOH:O	2.18	0.42
3:N:754:PHE:HA	4:O:24:ALA:CB	2.50	0.42
2:M:172:ILE:HD12	2:M:172:ILE:N	2.35	0.42
2:M:358:ARG:NH2	2:M:374:ASN:HB3	2.32	0.42
5:P:138:SER:O	5:P:141:VAL:HG12	2.20	0.42
1:L:143:ARG:HB2	9:L:3535:HOH:O	2.18	0.42
2:M:549:PHE:N	9:M:1643:HOH:O	2.52	0.42
2:M:577:PRO:HA	2:M:671:ASN:ND2	2.31	0.42
3:D:1066:THR:CG2	3:D:1069:GLU:HG3	2.48	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:537:THR:HG22	5:P:314:PRO:HB2	2.01	0.42
3:D:711:LEU:CD1	3:D:778:LEU:HD23	2.49	0.42
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.79	0.42
3:N:1109:GLU:HA	9:N:9843:HOH:O	2.19	0.42
3:N:95:LEU:HD23	3:N:574:LEU:HD21	2.01	0.42
3:D:36:THR:O	3:D:38:LYS:N	2.53	0.42
2:M:674:VAL:O	2:M:989:VAL:HA	2.18	0.42
3:N:1149:LEU:HD21	9:N:2153:HOH:O	2.18	0.42
1:B:101:LEU:HD12	1:B:114:PHE:CE1	2.55	0.42
3:N:1118:ILE:CG2	3:N:1346:ARG:HH22	2.32	0.42
2:C:265:ARG:HB2	9:C:9022:HOH:O	2.19	0.42
3:D:1302:GLU:HB3	9:D:9800:HOH:O	2.18	0.42
4:O:51:LEU:HD22	9:O:2325:HOH:O	2.19	0.42
1:L:48:ILE:HD12	1:L:174:VAL:HG21	2.01	0.42
3:N:712:GLY:HA2	9:N:9145:HOH:O	2.20	0.42
2:M:41:ASN:ND2	2:M:41:ASN:H	2.18	0.42
3:D:1294:VAL:O	3:D:1300:SER:HA	2.20	0.42
3:D:850:LEU:HG	3:D:850:LEU:H	1.47	0.42
3:D:818:ARG:HB2	9:D:9115:HOH:O	2.17	0.42
3:N:1150:ALA:O	3:N:1151:ARG:HD3	2.19	0.42
3:N:1441:GLN:HB3	9:N:9134:HOH:O	2.18	0.42
1:L:86:VAL:HG12	1:L:124:ASN:CG	2.40	0.42
3:N:223:LEU:N	3:N:365:ASP:O	2.50	0.42
1:B:217:ILE:O	1:B:221:HIS:ND1	2.53	0.42
1:L:169:ALA:HB1	1:L:171:PHE:CE2	2.55	0.42
3:D:4:GLU:HA	9:D:2324:HOH:O	2.20	0.42
3:N:56:TYR:HE2	3:N:69:GLU:HB2	1.85	0.42
2:M:212:GLY:C	2:M:215:GLY:H	2.23	0.42
3:N:199:LEU:N	9:N:9842:HOH:O	2.53	0.42
3:D:525:ARG:N	3:D:526:PRO:HD3	2.35	0.42
1:K:35:THR:HG21	1:L:43:ILE:CD1	2.46	0.42
2:C:208:ALA:HA	2:C:218:VAL:CG2	2.49	0.42
2:C:305:PRO:HG2	9:C:9047:HOH:O	2.20	0.42
3:N:96:ALA:HB1	3:N:554:LEU:HD12	2.02	0.42
3:D:1192:LEU:HD22	3:D:1345:GLU:CD	2.40	0.42
3:D:1223:ILE:CD1	3:D:1223:ILE:H	2.15	0.42
2:C:199:VAL:HG13	2:C:235:LEU:CG	2.49	0.42
5:F:363:GLU:HA	5:F:367:MET:HE3	1.99	0.42
2:M:677:MET:HB3	2:M:987:ILE:HD13	2.01	0.42
2:C:659:PRO:HD3	9:C:9247:HOH:O	2.19	0.42
3:D:955:VAL:HG21	3:D:1015:TYR:CE2	2.54	0.42
3:N:863:VAL:HG21	9:N:9558:HOH:O	2.20	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:853:VAL:HA	3:N:858:VAL:O	2.19	0.42
2:M:68:PHE:HE1	2:M:96:ALA:HB1	1.85	0.42
1:A:178:ALA:O	1:A:198:ARG:HG3	2.19	0.42
3:D:1487:VAL:HG22	9:D:9579:HOH:O	2.19	0.42
3:N:660:LYS:HD2	3:N:694:VAL:HG23	2.02	0.42
5:P:259:ARG:HG3	5:P:259:ARG:NH1	2.35	0.42
3:D:1152:GLU:HB3	9:D:2316:HOH:O	2.18	0.42
1:B:58:ILE:HD12	1:B:140:MET:CE	2.50	0.42
3:N:700:VAL:O	3:N:715:ALA:HA	2.19	0.42
3:D:957:PRO:CD	3:D:1007:VAL:HG12	2.49	0.42
3:D:644:LEU:O	3:D:720:LEU:HA	2.20	0.42
2:C:554:ASP:HB2	2:C:880:MET:HB2	2.01	0.42
4:O:29:GLN:HB2	4:O:29:GLN:HE21	1.70	0.42
3:D:662:GLU:HG3	3:D:669:ASN:HA	2.02	0.42
3:N:1054:GLU:HG2	9:N:9206:HOH:O	2.18	0.42
3:D:1405:GLU:OE2	3:D:1413:THR:HB	2.19	0.42
5:F:110:MET:CG	5:F:114:LYS:HE3	2.50	0.42
2:C:896:PHE:HB3	2:C:924:VAL:HB	2.00	0.42
2:C:834:GLN:HE21	2:C:834:GLN:HB2	1.63	0.42
3:D:1009:LYS:O	3:D:1013:GLU:HG3	2.20	0.42
3:N:565:ILE:HD11	5:P:189:GLU:HG2	2.02	0.42
3:D:42:ASP:HA	3:D:46:ASP:OD1	2.19	0.42
3:D:93:ILE:CD1	3:D:519:VAL:HG22	2.49	0.42
3:D:583:ASP:HB2	3:D:604:THR:OG1	2.19	0.42
3:D:1206:GLY:HA3	3:D:1366:LYS:HZ3	1.83	0.42
3:D:1264:GLU:OE1	3:D:1425:THR:HB	2.19	0.42
2:M:291:ALA:O	2:M:299:LYS:HE2	2.19	0.42
1:L:1:MET:O	1:L:6:LEU:HB2	2.20	0.42
3:N:179:VAL:O	3:N:183:GLU:HB2	2.20	0.42
5:F:94:LEU:HB2	5:F:98:GLU:OE2	2.20	0.42
3:N:30:GLU:HB3	3:N:40:GLU:CG	2.47	0.42
5:F:302:LYS:HA	9:F:599:HOH:O	2.19	0.42
3:D:1129:THR:O	3:D:1130:ARG:HD2	2.19	0.42
2:M:910:LYS:HB3	2:M:912:PRO:HD2	2.01	0.42
2:C:95:TYR:HD2	2:C:114:PHE:CB	2.26	0.42
1:L:112:ARG:NH1	1:L:126:ASP:HA	2.27	0.42
3:N:1106:VAL:O	3:N:1108:ARG:HG2	2.20	0.42
3:N:684:LYS:CB	3:N:686:GLU:HG3	2.50	0.42
3:D:190:GLU:HG3	3:D:210:ARG:CZ	2.49	0.42
1:B:184:THR:O	1:B:192:LEU:HB2	2.19	0.42
2:M:449:ILE:O	2:M:451:LEU:N	2.53	0.42
1:B:101:LEU:HD11	1:B:113:ASP:HB2	2.02	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:678:GLU:HB2	9:D:2080:HOH:O	2.20	0.42
2:M:1070:ILE:HG23	3:N:656:PHE:CD1	2.54	0.42
2:C:26:TYR:HB2	2:C:121:MET:CE	2.50	0.42
2:M:839:LEU:N	2:M:839:LEU:HD23	2.34	0.42
3:D:111:LYS:HE2	3:D:1452:ILE:HG12	2.02	0.42
3:D:1107:VAL:HA	3:D:1200:VAL:O	2.19	0.42
5:F:87:GLU:HB3	9:F:660:HOH:O	2.19	0.42
2:C:1006:HIS:N	2:C:1006:HIS:HD1	2.18	0.42
1:A:153:ALA:HA	1:A:156:HIS:CE1	2.55	0.42
3:N:209:ARG:HD2	9:N:9666:HOH:O	2.20	0.42
2:C:916:GLU:HB3	9:C:9202:HOH:O	2.19	0.42
3:D:1289:LYS:HE2	3:D:1306:PRO:HG3	2.02	0.42
4:O:36:LYS:HB2	9:O:6857:HOH:O	2.18	0.42
3:N:1107:VAL:O	3:N:1218:GLY:N	2.52	0.42
2:C:502:PRO:HB2	2:C:509:ALA:HB3	2.02	0.42
2:M:127:PHE:O	2:M:133:ASP:HA	2.20	0.42
3:D:1287:GLU:HB3	9:D:2572:HOH:O	2.20	0.42
2:C:761:PHE:CD1	2:C:761:PHE:N	2.88	0.42
1:L:12:THR:OG1	1:L:24:VAL:HB	2.20	0.42
2:C:959:PRO:HG2	9:C:2237:HOH:O	2.18	0.42
2:M:443:THR:HA	2:M:444:PRO:HD3	1.85	0.42
2:M:282:GLY:HA2	2:M:308:ARG:HH22	1.85	0.42
2:C:979:THR:HG23	2:C:981:GLU:HB2	2.02	0.42
5:F:321:ILE:O	5:F:327:SER:HB3	2.20	0.42
2:C:504:GLU:OE1	2:C:507:ARG:HD2	2.20	0.42
3:N:1011:PHE:HB3	3:N:1021:TYR:CG	2.55	0.42
3:D:1275:SER:HB3	3:D:1325:LEU:HD21	2.02	0.42
1:A:184:THR:HG23	1:A:192:LEU:HB2	2.02	0.42
3:D:1026:SER:C	3:D:1028:ALA:N	2.73	0.42
3:D:1129:THR:HG22	9:D:2169:HOH:O	2.20	0.42
2:C:137:VAL:O	2:C:391:LEU:HD11	2.19	0.42
2:C:418:LEU:HB2	9:C:9587:HOH:O	2.20	0.42
1:L:156:HIS:HE1	9:L:3186:HOH:O	2.03	0.42
3:N:133:ILE:HD12	3:N:158:TYR:CE2	2.55	0.42
3:N:535:PHE:O	5:P:314:PRO:CA	2.68	0.42
2:C:1001:VAL:HA	9:C:9140:HOH:O	2.19	0.42
2:C:1019:GLN:HB3	2:C:1019:GLN:HE21	1.65	0.42
2:C:140:ILE:HG12	2:C:411:SER:O	2.20	0.42
3:D:708:LEU:HB3	3:D:1231:GLU:HG3	2.02	0.42
1:A:31:GLY:N	1:A:193:ASP:OD2	2.52	0.42
1:B:99:LEU:HG	1:B:114:PHE:HB3	2.02	0.42
3:N:1274:ILE:HD11	3:N:1334:GLN:CD	2.40	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:973:GLN:HA	3:N:976:GLN:HE21	1.84	0.42
2:M:633:GLN:CD	2:M:633:GLN:H	2.23	0.42
2:C:911:GLU:HB3	2:C:912:PRO:HD3	2.02	0.42
5:P:328:PHE:O	5:P:331:ASP:HB2	2.20	0.42
3:D:1207:TYR:HE1	9:D:9139:HOH:O	2.02	0.42
3:D:33:ASN:HD22	3:D:34:TYR:N	2.18	0.42
1:K:88:ARG:HB2	1:K:204:SER:HA	2.02	0.42
2:C:165:LEU:HA	2:C:166:PRO:O	2.20	0.42
2:C:5:ARG:H	2:C:5:ARG:HG3	1.72	0.42
3:N:544:TYR:O	3:N:548:ILE:HG12	2.20	0.42
2:M:688:ILE:HD11	2:M:847:GLY:HA3	2.02	0.42
3:D:1191:PRO:HD3	3:D:1204:CYS:O	2.20	0.42
2:C:390:GLN:HG2	9:C:9061:HOH:O	2.19	0.42
2:C:950:LEU:HD11	3:D:1017:PHE:O	2.20	0.42
3:D:1307:LYS:NZ	9:D:9944:HOH:O	2.52	0.42
2:M:815:LEU:HD21	2:M:820:ARG:O	2.20	0.42
2:M:290:LEU:HB3	9:M:1355:HOH:O	2.19	0.41
5:P:84:TYR:HD2	5:P:192:LEU:HD13	1.85	0.41
5:P:134:LYS:HG3	5:P:178:ARG:NH2	2.35	0.41
3:D:1422:MET:CE	3:D:1426:LYS:HG2	2.50	0.41
3:D:450:TYR:O	3:D:452:ILE:HG22	2.20	0.41
2:M:146:VAL:HG13	2:M:161:SER:O	2.20	0.41
2:M:184:MET:CE	2:M:186:VAL:HG13	2.49	0.41
2:C:597:ALA:HB2	2:C:655:LEU:CD2	2.40	0.41
2:M:11:GLU:HG2	2:M:537:LYS:HZ1	1.85	0.41
2:M:906:PHE:HD1	3:N:1067:VAL:HG22	1.84	0.41
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.49	0.41
3:N:535:PHE:O	5:P:314:PRO:HA	2.19	0.41
3:D:461:ILE:O	3:D:465:LEU:HB2	2.20	0.41
2:M:858:MET:HB2	2:M:859:PRO:CD	2.50	0.41
3:D:1122:LEU:HD23	3:D:1178:ALA:CB	2.47	0.41
1:K:131:THR:N	9:K:2174:HOH:O	2.53	0.41
2:M:151:ASP:HB2	2:M:157:ARG:O	2.20	0.41
3:D:1217:ILE:H	3:D:1217:ILE:HG13	1.58	0.41
3:D:929:ARG:NH1	3:D:929:ARG:HG3	2.33	0.41
2:M:1:MET:SD	2:M:900:ARG:HG3	2.60	0.41
1:L:71:VAL:HA	9:L:3336:HOH:O	2.19	0.41
3:D:671:LYS:HB2	9:D:9143:HOH:O	2.20	0.41
3:D:610:LYS:HE3	9:D:9460:HOH:O	2.19	0.41
2:M:72:ARG:HG2	9:M:1219:HOH:O	2.20	0.41
3:N:1089:ALA:HA	9:N:9308:HOH:O	2.20	0.41
2:C:945:ARG:CD	9:C:2219:HOH:O	2.58	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:28:LYS:HE2	3:D:41:ARG:NH2	2.35	0.41
3:D:28:LYS:HD3	3:D:41:ARG:CZ	2.50	0.41
2:M:1060:ILE:CG2	2:M:1061:GLU:N	2.83	0.41
2:C:1090:LYS:HG2	2:C:1112:PHE:HZ	1.86	0.41
2:C:54:ILE:HB	9:C:9517:HOH:O	2.20	0.41
2:C:478:VAL:HB	9:C:9898:HOH:O	2.19	0.41
3:D:1141:GLU:HG2	3:D:1168:MET:HE1	2.01	0.41
5:F:88:ILE:HD13	5:F:193:ARG:HD3	2.01	0.41
2:M:580:MET:O	2:M:902:ILE:HA	2.20	0.41
2:M:660:ALA:O	2:M:667:ALA:O	2.38	0.41
2:M:473:ARG:HD2	2:M:475:VAL:HG22	2.02	0.41
2:M:925:TYR:O	2:M:929:ARG:HG2	2.19	0.41
2:C:1039:ALA:O	2:C:1043:TYR:CD1	2.72	0.41
3:D:806:PHE:O	3:D:806:PHE:CG	2.72	0.41
1:L:114:PHE:CE2	1:L:142:VAL:HG22	2.55	0.41
2:M:1067:TYR:HE1	3:N:655:PRO:HG3	1.85	0.41
3:D:1495:ILE:HD11	9:E:141:HOH:O	2.21	0.41
3:D:1498:ALA:HB1	9:D:9843:HOH:O	2.19	0.41
3:D:477:LEU:HD23	9:D:2405:HOH:O	2.20	0.41
3:N:135:LEU:HD21	3:N:138:LYS:C	2.41	0.41
3:D:1437:ALA:HA	3:D:1440:PHE:HE1	1.84	0.41
2:C:443:THR:HG21	2:C:450:GLY:N	2.33	0.41
1:A:58:ILE:HD13	1:A:140:MET:HB2	2.02	0.41
3:D:1091:SER:HB2	3:D:1234:THR:OG1	2.19	0.41
3:D:616:GLN:HE21	3:D:619:LEU:HD13	1.85	0.41
5:P:287:THR:O	5:P:289:GLU:N	2.53	0.41
3:N:1299:PHE:N	3:N:1299:PHE:CD2	2.89	0.41
3:N:180:LYS:HE2	3:N:219:GLU:CB	2.50	0.41
5:F:301:ALA:HB3	9:F:864:HOH:O	2.19	0.41
2:M:739:GLU:HG3	9:M:1158:HOH:O	2.20	0.41
2:M:290:LEU:HB3	2:M:302:VAL:CG1	2.50	0.41
2:M:309:TYR:HD1	9:M:1833:HOH:O	2.02	0.41
2:C:358:ARG:HB3	2:C:371:LYS:O	2.20	0.41
3:N:426:LYS:HD2	9:P:828:HOH:O	2.20	0.41
3:N:436:GLU:HG3	9:N:9929:HOH:O	2.20	0.41
2:M:1018:GLN:HG2	3:N:87:ARG:HH22	1.86	0.41
3:D:187:LYS:HA	3:D:187:LYS:HD3	1.78	0.41
5:P:371:LEU:O	5:P:375:LEU:HB3	2.20	0.41
5:F:291:ILE:HG23	5:F:292:ALA:N	2.35	0.41
5:F:414:ARG:NH1	5:F:414:ARG:HG2	2.34	0.41
3:N:1384:PRO:CG	3:N:1389:LEU:HB3	2.51	0.41
3:D:462:GLN:HB2	3:D:513:ILE:HG21	2.00	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:557:ARG:HE	2:M:879:ARG:HG2	1.85	0.41
3:N:907:GLU:CD	3:N:909:ASN:HD22	2.24	0.41
3:N:37:LEU:HD22	3:N:535:PHE:HZ	1.85	0.41
3:N:130:SER:O	3:N:568:ARG:NH2	2.52	0.41
3:D:629:SER:O	3:D:744:GLN:HG2	2.20	0.41
3:N:1137:ARG:O	3:N:1138:ALA:C	2.57	0.41
1:L:58:ILE:HD13	1:L:140:MET:HB2	2.02	0.41
2:M:96:ALA:N	9:M:2309:HOH:O	2.53	0.41
5:P:340:SER:O	5:P:342:VAL:N	2.52	0.41
2:C:178:PRO:HA	9:C:9133:HOH:O	2.20	0.41
1:K:156:HIS:HD2	1:K:157:GLY:H	1.66	0.41
2:M:432:ARG:NH1	3:N:1048:PRO:HD3	2.35	0.41
5:F:419:ARG:N	9:F:881:HOH:O	2.51	0.41
4:E:57:ASP:N	4:E:58:PRO:HD3	2.36	0.41
4:E:2:ALA:N	9:E:107:HOH:O	2.53	0.41
3:D:1293:PHE:CE2	3:D:1302:GLU:HB2	2.55	0.41
3:N:477:LEU:HA	9:N:9517:HOH:O	2.20	0.41
2:C:1025:ALA:HB1	9:C:9792:HOH:O	2.20	0.41
3:N:137:PRO:HD2	3:N:453:ASP:HB2	2.03	0.41
2:M:637:LEU:HA	2:M:659:PRO:HG3	2.02	0.41
1:K:85:LEU:HD12	1:K:124:ASN:HB3	2.02	0.41
2:M:1103:ASP:N	2:M:1107:ASN:O	2.54	0.41
3:D:724:GLN:HG3	3:D:725:SER:N	2.35	0.41
2:M:564:MET:HG2	2:M:840:ALA:HB3	2.02	0.41
2:C:69:LEU:HB2	2:C:97:ARG:HB2	2.02	0.41
3:N:1246:VAL:HG11	9:N:2237:HOH:O	2.20	0.41
2:M:881:ASN:H	2:M:881:ASN:ND2	2.18	0.41
3:D:916:TYR:CE2	3:D:920:LEU:HD22	2.55	0.41
3:N:1261:GLU:HG3	9:N:9286:HOH:O	2.20	0.41
1:A:96:THR:N	9:A:555:HOH:O	2.52	0.41
2:C:1076:VAL:CG2	3:D:752:SER:HA	2.50	0.41
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.20	0.41
3:D:438:ASP:OD2	3:D:440:VAL:HB	2.19	0.41
5:F:378:GLY:N	9:F:915:HOH:O	2.52	0.41
2:M:191:PHE:HZ	2:M:196:LEU:HB2	1.80	0.41
5:P:164:LYS:HA	5:P:171:LYS:HZ2	1.84	0.41
2:M:462:ASP:CG	2:M:463:GLU:H	2.22	0.41
2:C:333:ILE:O	2:C:465:GLY:HA3	2.20	0.41
3:D:560:GLN:CG	5:F:218:GLN:HE22	2.33	0.41
3:D:530:VAL:N	3:D:534:ARG:O	2.39	0.41
3:N:513:ILE:HB	9:N:2037:HOH:O	2.20	0.41
1:B:89:PHE:CB	1:B:94:LEU:HD13	2.43	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.54	0.41
2:M:166:PRO:HD3	2:M:265:ARG:CG	2.50	0.41
9:B:583:HOH:O	3:D:813:LEU:HD21	2.19	0.41
1:A:199:ILE:N	1:A:199:ILE:HD12	2.35	0.41
5:F:151:LEU:HB2	5:F:155:THR:H	1.84	0.41
3:N:1271:LYS:HG2	3:N:1272:ALA:N	2.36	0.41
1:K:50:GLY:HA3	1:K:173:PRO:HG3	2.02	0.41
3:D:1049:SER:OG	3:D:1050:GLY:N	2.54	0.41
2:M:189:ARG:HD2	9:M:2033:HOH:O	2.21	0.41
2:M:491:GLU:O	2:M:496:ILE:HD11	2.20	0.41
3:N:1012:GLU:HG2	3:N:1013:GLU:N	2.35	0.41
2:M:603:VAL:HG23	2:M:647:GLN:O	2.20	0.41
1:K:198:ARG:HH12	2:M:934:PHE:HD1	1.68	0.41
3:N:774:SER:C	3:N:776:GLU:N	2.74	0.41
5:P:179:GLU:O	5:P:182:ALA:HB3	2.20	0.41
1:B:217:ILE:HG23	1:B:221:HIS:CE1	2.55	0.41
1:B:33:GLY:O	1:B:195:LEU:HD22	2.21	0.41
3:D:221:ALA:HB3	3:D:367:ILE:CB	2.50	0.41
3:N:1121:PRO:HB3	9:N:9257:HOH:O	2.18	0.41
1:A:44:LEU:O	1:A:174:VAL:HG21	2.19	0.41
3:D:1047:LYS:HG2	3:D:1053:PHE:CE2	2.54	0.41
2:C:946:ARG:CD	2:C:984:GLU:HB2	2.51	0.41
2:M:191:PHE:HA	9:M:2299:HOH:O	2.21	0.41
2:M:952:LEU:HD22	2:M:952:LEU:N	2.35	0.41
3:D:90:MET:HG2	3:D:521:PRO:HD3	2.03	0.41
2:C:1090:LYS:HA	2:C:1090:LYS:HD3	1.81	0.41
2:M:460:ARG:HG3	9:M:1149:HOH:O	2.20	0.41
5:F:79:ASP:HB3	5:F:80:PRO:HD2	2.01	0.41
3:D:1120:VAL:HA	3:D:1121:PRO:HD3	1.84	0.41
2:C:136:ILE:HG23	2:C:391:LEU:CD2	2.51	0.41
2:M:458:TYR:CD2	2:M:470:PRO:HG3	2.56	0.41
2:M:474:VAL:HG13	2:M:530:GLU:C	2.41	0.41
2:M:611:ILE:N	2:M:611:ILE:HD12	2.36	0.41
3:N:131:LYS:HG2	3:N:568:ARG:HG2	2.01	0.41
5:F:235:PHE:CE2	5:F:239:ALA:HB2	2.55	0.41
3:N:1156:LEU:N	9:N:9269:HOH:O	2.53	0.41
3:D:481:MET:O	3:D:489:ARG:HB2	2.20	0.41
1:B:28:LEU:HG	1:B:193:ASP:O	2.20	0.41
2:M:383:ARG:HH11	2:M:383:ARG:HB2	1.84	0.41
1:B:101:LEU:HD21	1:B:113:ASP:HB3	2.01	0.41
5:F:421:PHE:C	5:F:423:ASP:H	2.23	0.41
2:C:1012:PRO:HD2	2:C:1021:LEU:O	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:1021:LEU:HB2	9:C:2027:HOH:O	2.20	0.41
2:C:267:TYR:HB2	2:C:272:ALA:CB	2.51	0.41
2:M:598:GLU:HB3	2:M:599:GLU:OE1	2.20	0.41
3:N:1456:LYS:HB3	3:N:1456:LYS:HZ2	1.85	0.41
2:C:425:PHE:HB3	9:C:9705:HOH:O	2.19	0.41
1:K:182:GLU:HG3	1:K:194:LYS:HD3	2.02	0.41
3:N:1000:THR:HG22	9:N:9995:HOH:O	2.19	0.41
3:D:1104:GLU:O	3:D:1106:VAL:HG23	2.20	0.41
2:C:165:LEU:HD12	2:C:166:PRO:CA	2.51	0.41
2:C:1101:THR:HB	3:D:5:VAL:CG1	2.50	0.41
3:N:548:ILE:HG12	9:N:9462:HOH:O	2.20	0.41
3:D:917:GLN:HE22	3:D:921:ARG:CZ	2.33	0.41
1:K:100:LEU:HB3	9:K:1835:HOH:O	2.21	0.41
3:D:162:ARG:NH2	3:D:434:ARG:NH2	2.69	0.41
2:M:304:LEU:HD12	2:M:308:ARG:HD3	2.01	0.41
3:D:583:ASP:OD2	3:D:604:THR:HG21	2.21	0.41
1:K:38:ASN:O	1:K:42:ARG:HG3	2.20	0.41
1:K:36:LEU:C	1:K:39:PRO:HD2	2.40	0.41
2:C:207:LEU:HD22	2:C:221:LEU:CD2	2.50	0.41
2:C:260:LEU:HD23	2:C:261:ILE:HG12	2.01	0.41
2:M:460:ARG:HB3	9:M:1929:HOH:O	2.20	0.41
2:M:720:GLU:HA	2:M:759:THR:O	2.21	0.41
3:D:1220:ALA:HB1	3:D:1223:ILE:CD1	2.42	0.41
3:D:798:GLU:HB2	3:D:828:LYS:HE2	2.02	0.41
3:D:808:THR:HB	3:D:809:PRO:CD	2.44	0.41
2:C:672:VAL:CG2	2:C:869:VAL:HG12	2.51	0.41
1:B:91:ASN:H	1:B:94:LEU:HD12	1.85	0.41
3:N:953:ASP:OD1	3:N:1019:PRO:HG2	2.21	0.41
2:M:11:GLU:HG2	2:M:537:LYS:NZ	2.35	0.41
2:M:435:TYR:O	2:M:437:ARG:N	2.54	0.41
3:N:528:VAL:HG12	3:N:529:GLN:N	2.35	0.41
3:N:1468:LEU:HD23	3:N:1468:LEU:O	2.20	0.41
3:N:1472:ILE:HA	3:N:1473:PRO:HD3	1.88	0.41
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	2.03	0.41
3:N:1123:PHE:CA	3:N:1135:ARG:H	2.27	0.41
5:F:282:LEU:HD12	5:F:284:ARG:O	2.21	0.41
3:D:1271:LYS:HZ1	3:D:1334:GLN:HE22	1.68	0.41
3:N:1376:MET:SD	3:N:1421:LEU:HD13	2.60	0.41
1:K:48:ILE:CD1	1:K:210:ALA:HB1	2.50	0.41
3:N:618:LEU:HG	9:N:2300:HOH:O	2.20	0.41
2:C:905:ILE:N	2:C:905:ILE:HD12	2.35	0.41
4:O:43:GLU:HG2	4:O:44:GLU:N	2.34	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:101:LEU:HD21	1:A:113:ASP:HB3	2.02	0.41
5:F:108:GLU:HG3	5:F:176:ILE:CG2	2.51	0.41
3:N:502:PHE:CE2	3:N:1452:ILE:HG13	2.55	0.41
3:N:840:LYS:HB3	3:N:841:TYR:CE2	2.56	0.41
5:F:228:GLU:HG3	5:F:230:LYS:HE3	2.03	0.41
3:N:799:LYS:HE3	9:N:9536:HOH:O	2.19	0.41
3:N:988:ARG:CZ	3:N:1054:GLU:OE2	2.69	0.41
3:D:826:PRO:HD2	3:D:829:VAL:HG22	2.01	0.41
3:N:1153:VAL:HG12	3:N:1155:VAL:HG22	2.02	0.41
3:D:721:VAL:HA	9:D:9555:HOH:O	2.19	0.41
2:M:1024:LYS:HB3	9:M:2236:HOH:O	2.20	0.41
3:N:24:GLY:HA2	9:N:9460:HOH:O	2.20	0.41
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.50	0.41
2:C:200:LEU:HD13	2:C:300:ASP:OD2	2.21	0.41
2:M:462:ASP:HB3	2:M:468:ARG:CD	2.36	0.41
3:D:804:LEU:HD12	3:D:804:LEU:O	2.20	0.41
5:F:361:LEU:HD13	5:F:366:ALA:HB1	2.02	0.41
2:C:521:PRO:CB	3:D:1055:VAL:HB	2.47	0.41
2:M:575:GLN:O	2:M:667:ALA:HB1	2.21	0.41
1:K:63:HIS:HA	9:K:6181:HOH:O	2.20	0.41
2:M:799:ILE:HD13	2:M:799:ILE:H	1.84	0.41
2:M:1039:ALA:O	2:M:1043:TYR:HD1	2.04	0.41
2:M:145:GLY:H	2:M:163:ILE:HG13	1.86	0.41
2:M:265:ARG:HB3	2:M:267:TYR:CD2	2.55	0.41
1:A:59:GLU:HG3	1:A:139:ASN:CG	2.40	0.41
5:P:403:LYS:HZ3	5:P:406:ARG:HD2	1.82	0.41
2:M:833:LEU:CD1	2:M:996:LYS:HD2	2.50	0.41
3:N:1123:PHE:HA	3:N:1134:LEU:CA	2.48	0.41
1:K:101:LEU:HD23	1:K:102:LYS:H	1.86	0.41
4:E:26:ARG:CZ	4:E:73:LEU:HD21	2.51	0.41
2:M:648:ARG:HG2	2:M:648:ARG:H	1.59	0.41
2:M:1101:THR:HB	3:N:5:VAL:CG1	2.48	0.41
4:E:85:LEU:HD23	4:E:86:GLN:N	2.35	0.41
3:N:389:GLU:HG2	3:N:389:GLU:H	1.67	0.41
3:D:168:THR:O	3:D:393:ILE:N	2.53	0.41
1:K:159:LYS:NZ	9:K:3394:HOH:O	2.53	0.41
1:A:123:MET:O	1:A:125:PRO:HD3	2.21	0.41
2:C:134:ARG:N	9:C:9111:HOH:O	2.49	0.41
5:P:197:SER:O	5:P:200:LYS:HB3	2.20	0.41
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.51	0.41
2:C:73:LEU:HB3	2:C:94:LEU:HB2	2.01	0.41
3:D:829:VAL:HG13	9:D:9705:HOH:O	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:1357:ARG:HD3	9:D:2093:HOH:O	2.21	0.41
3:N:506:GLY:C	3:N:507:ASN:HD22	2.24	0.41
2:M:585:GLU:O	2:M:588:VAL:HG22	2.20	0.41
5:P:357:ALA:HA	9:P:483:HOH:O	2.20	0.41
3:N:596:SER:HA	9:N:2183:HOH:O	2.21	0.41
5:F:279:GLN:HB2	9:F:466:HOH:O	2.21	0.41
3:N:1269:LYS:HG3	9:N:9265:HOH:O	2.20	0.41
2:C:432:ARG:HH12	3:D:1047:LYS:CG	2.33	0.41
5:P:87:GLU:O	5:P:91:VAL:HG22	2.19	0.41
2:C:367:LEU:HB3	2:C:371:LYS:CG	2.50	0.41
2:C:1115:LEU:CD1	2:C:1115:LEU:N	2.82	0.41
2:C:148:PHE:CZ	2:C:281:LEU:HD13	2.51	0.41
3:D:176:ASP:HA	9:D:9636:HOH:O	2.19	0.41
2:C:435:TYR:C	2:C:437:ARG:N	2.74	0.41
3:D:565:ILE:O	3:D:569:ASN:HB2	2.21	0.41
2:C:66:LEU:CD2	2:C:372:LEU:HD23	2.46	0.41
2:C:507:ARG:CZ	2:C:507:ARG:HB2	2.50	0.41
3:D:1023:MET:O	3:D:1028:ALA:HB3	2.20	0.41
2:M:358:ARG:HD3	9:M:1139:HOH:O	2.21	0.41
3:N:800:LYS:HG2	9:N:9283:HOH:O	2.19	0.41
2:C:430:VAL:CG1	3:D:1075:HIS:HA	2.48	0.41
2:C:546:LEU:HD21	2:C:587:VAL:HG21	2.03	0.41
4:O:57:ASP:N	4:O:58:PRO:HD3	2.36	0.41
2:M:392:SER:C	2:M:393:GLN:HG3	2.41	0.41
3:N:1213:ARG:HD3	9:N:9639:HOH:O	2.20	0.41
1:B:156:HIS:CG	1:B:157:GLY:N	2.88	0.41
3:N:616:GLN:HE21	3:N:619:LEU:HB2	1.82	0.41
2:C:1005:MET:HE1	3:D:648:MET:HB2	2.03	0.41
2:M:48:PHE:O	2:M:52:PHE:HB2	2.21	0.41
3:N:658:LEU:HD13	3:N:670:VAL:HG13	2.03	0.41
2:M:78:PHE:CB	2:M:88:LEU:HD21	2.51	0.41
2:C:1100:GLN:O	2:C:1102:LEU:HD12	2.21	0.41
2:C:405:ARG:NE	2:C:566:THR:HG21	2.35	0.41
3:N:1242:HIS:HE1	3:N:1266:ARG:NH1	2.19	0.41
1:L:27:PRO:HG2	1:L:186:LEU:CD1	2.51	0.41
1:K:58:ILE:HG22	9:K:1296:HOH:O	2.21	0.41
3:N:1463:LYS:HA	3:N:1463:LYS:HD3	1.85	0.41
2:C:237:ARG:CB	9:C:2092:HOH:O	2.67	0.41
2:C:729:LEU:HD11	9:D:9550:HOH:O	2.20	0.41
3:N:117:ASP:HB2	3:N:495:ARG:HH21	1.85	0.41
3:D:177:ALA:CA	3:D:199:LEU:HD13	2.50	0.41
3:D:695:ILE:HG21	3:D:720:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:767:HIS:NE2	4:O:6:ILE:HD13	2.35	0.41
3:D:930:LEU:HD12	3:D:934:LEU:HG	2.02	0.41
2:M:92:ALA:HB2	2:M:120:LEU:CD1	2.50	0.41
1:L:118:ALA:HB2	9:L:4508:HOH:O	2.20	0.41
2:M:142:ARG:HG3	9:M:1228:HOH:O	2.20	0.41
3:N:1139:ASP:O	3:N:1142:ALA:HB3	2.21	0.41
2:M:249:LYS:HB2	9:M:1514:HOH:O	2.19	0.41
3:D:1045:MET:HG2	3:D:1073:SER:CA	2.25	0.41
2:C:983:ILE:CG2	2:C:987:ILE:HD11	2.50	0.41
2:M:208:ALA:HB1	2:M:218:VAL:CG1	2.51	0.41
2:C:110:GLU:HB2	2:C:368:THR:HG22	2.01	0.41
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.46	0.41
2:C:1097:LEU:CD2	2:C:1097:LEU:H	2.22	0.41
3:D:1364:HIS:NE2	3:D:1366:LYS:HE3	2.36	0.41
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.51	0.41
2:C:287:GLY:O	2:C:288:ARG:C	2.58	0.41
2:C:289:THR:O	2:C:291:ALA:N	2.54	0.41
1:K:27:PRO:HG2	1:K:186:LEU:CD2	2.46	0.41
2:C:478:VAL:HG13	2:C:506:ASN:HB3	2.02	0.41
1:A:24:VAL:HG22	1:A:196:THR:HB	2.03	0.41
5:P:371:LEU:HB3	5:P:375:LEU:HD22	2.02	0.41
3:D:805:GLU:CG	9:D:2490:HOH:O	2.69	0.41
2:C:674:VAL:O	2:C:989:VAL:HA	2.21	0.41
3:D:1171:VAL:HG12	3:D:1171:VAL:O	2.21	0.41
3:D:1147:ARG:H	3:D:1166:LEU:HD23	1.86	0.41
3:N:18:ILE:HD12	3:N:518:PRO:HD3	2.03	0.41
2:C:141:HIS:CB	2:C:418:LEU:HG	2.50	0.41
2:M:18:LEU:HD23	2:M:404:LEU:CD1	2.51	0.41
3:D:643:GLY:HA2	3:D:719:VAL:HG23	2.03	0.41
2:C:837:ASP:OD1	2:C:996:LYS:HE3	2.21	0.41
2:M:274:ARG:O	2:M:274:ARG:HG2	2.21	0.41
2:M:287:GLY:O	2:M:288:ARG:C	2.60	0.41
2:C:714:ASP:N	9:C:9031:HOH:O	2.54	0.41
3:N:1462:LEU:N	3:N:1462:LEU:HD23	2.36	0.41
5:P:403:LYS:HA	5:P:403:LYS:HZ3	1.82	0.41
3:N:1432:LYS:H	3:N:1432:LYS:HG3	1.54	0.41
1:B:27:PRO:C	1:B:28:LEU:HD23	2.40	0.41
3:N:598:ARG:HA	3:N:599:PRO:HD3	1.94	0.41
2:C:146:VAL:HB	9:C:9633:HOH:O	2.21	0.41
5:F:421:PHE:HD2	9:F:486:HOH:O	2.03	0.41
3:D:107:ASP:O	3:D:108:VAL:C	2.59	0.41
1:A:11:PHE:HB3	1:B:227:ASN:O	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:84:GLU:OE2	3:N:844:ALA:HB1	2.21	0.41
3:D:111:LYS:HZ1	3:D:1452:ILE:CG2	2.33	0.41
5:F:289:GLU:HG2	9:F:440:HOH:O	2.20	0.41
3:D:1496:GLU:OE1	3:D:1500:LYS:HG3	2.20	0.41
2:M:1001:VAL:O	2:M:1004:LYS:HB3	2.21	0.41
2:C:721:ARG:O	2:C:759:THR:N	2.54	0.41
5:P:201:LYS:HD3	9:P:693:HOH:O	2.19	0.41
2:C:48:PHE:HA	2:C:348:LEU:HD21	2.03	0.41
2:M:520:GLU:HA	2:M:521:PRO:HD3	1.89	0.41
3:D:819:GLY:HA3	9:D:9279:HOH:O	2.21	0.41
2:C:327:HIS:CE1	2:C:489:THR:HA	2.56	0.41
2:M:1095:LEU:HD23	3:N:582:LEU:CD2	2.51	0.41
5:F:316:SER:HB3	5:F:318:GLU:O	2.20	0.41
1:K:229:GLN:HG2	9:K:1527:HOH:O	2.20	0.41
3:N:411:THR:HG21	9:N:2373:HOH:O	2.21	0.41
3:N:702:LEU:HG	3:N:745:MET:HE1	2.03	0.41
2:M:380:ALA:O	2:M:384:GLU:HB2	2.21	0.41
3:N:142:LEU:HD12	3:N:142:LEU:O	2.21	0.41
3:D:451:ASP:HB2	9:D:2626:HOH:O	2.20	0.41
1:A:16:GLN:NE2	1:A:17:GLY:N	2.69	0.41
2:C:860:HIS:CE1	2:C:977:GLY:HA2	2.55	0.41
3:D:964:LEU:HD22	3:D:1058:ARG:NH1	2.35	0.41
2:M:972:VAL:HA	9:M:2014:HOH:O	2.20	0.41
3:N:1063:GLU:HG3	3:N:1064:GLY:H	1.86	0.41
3:D:116:LEU:HB3	3:D:118:LEU:HD21	2.03	0.41
5:P:184:ARG:O	5:P:188:ILE:HG13	2.21	0.41
3:N:178:LEU:CD2	3:N:199:LEU:H	2.34	0.41
3:D:26:VAL:N	9:D:2403:HOH:O	2.53	0.41
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.85	0.41
3:D:1101:VAL:HG12	3:D:1374:GLN:HB3	2.03	0.41
2:C:435:TYR:O	2:C:437:ARG:N	2.54	0.41
2:C:352:ALA:C	2:C:355:VAL:HG12	2.41	0.41
2:M:10:ARG:HA	2:M:10:ARG:NH1	2.22	0.41
1:B:87:VAL:CG2	1:B:144:VAL:HG11	2.39	0.41
3:N:1406:ARG:HG3	3:N:1406:ARG:HH11	1.86	0.41
2:C:135:VAL:HB	2:C:406:HIS:CE1	2.56	0.41
2:M:332:ARG:HA	9:M:1427:HOH:O	2.21	0.41
2:M:611:ILE:CD1	2:M:625:LEU:HD11	2.50	0.41
3:D:806:PHE:O	3:D:806:PHE:CD1	2.74	0.41
3:N:658:LEU:O	3:N:661:MET:HB2	2.20	0.41
3:N:666:ILE:HA	3:N:684:LYS:HZ2	1.86	0.41
2:C:380:ALA:O	2:C:383:ARG:HG2	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:21:ILE:HD12	2:C:21:ILE:N	2.33	0.41
4:E:64:ALA:O	4:E:67:GLU:HG3	2.21	0.41
2:C:601:GLY:HA3	2:C:615:TYR:HA	2.02	0.41
2:M:348:LEU:O	2:M:348:LEU:HD12	2.21	0.41
3:N:430:ASP:HB3	3:N:431:VAL:H	1.74	0.41
2:C:83:CYS:HA	2:C:88:LEU:CB	2.50	0.41
5:P:200:LYS:HE3	9:P:769:HOH:O	2.19	0.41
2:M:51:THR:HG23	9:M:1496:HOH:O	2.21	0.41
3:N:1404:ASN:ND2	9:N:2499:HOH:O	2.53	0.41
1:B:20:TYR:CE2	1:B:198:ARG:HD2	2.56	0.41
3:N:19:ARG:HH11	3:N:19:ARG:HG3	1.85	0.41
2:C:847:GLY:HA3	9:C:9481:HOH:O	2.21	0.41
2:C:661:SER:N	9:C:9179:HOH:O	2.54	0.41
1:B:150:TYR:HB2	3:D:855:HIS:CD2	2.56	0.41
5:P:185:GLN:HA	5:P:188:ILE:HD12	2.02	0.40
3:N:573:MET:SD	5:P:210:LEU:HD22	2.61	0.40
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	2.02	0.40
3:D:74:GLU:CD	3:D:75:ARG:HH12	2.25	0.40
3:D:493:ARG:HE	3:D:1388:ARG:CB	2.28	0.40
2:C:284:ARG:HD2	2:C:301:GLU:OE1	2.20	0.40
5:F:94:LEU:HD23	5:F:95:THR:N	2.36	0.40
3:D:564:GLU:HB3	9:D:2249:HOH:O	2.20	0.40
2:C:876:VAL:O	2:C:879:ARG:O	2.39	0.40
2:M:835:VAL:HG13	3:N:725:SER:OG	2.21	0.40
3:D:194:GLY:HA2	9:D:9486:HOH:O	2.21	0.40
2:C:690:ILE:HD13	2:C:691:SER:O	2.21	0.40
5:P:291:ILE:HG13	5:P:304:VAL:HG21	2.03	0.40
2:M:984:GLU:O	3:N:946:GLY:HA3	2.20	0.40
3:N:1038:LEU:O	3:N:1060:SER:HB2	2.21	0.40
2:M:874:LEU:HD21	3:N:787:LEU:HD23	2.03	0.40
5:F:249:ARG:HH21	5:F:262:VAL:HG23	1.83	0.40
2:M:437:ARG:HG2	2:M:467:ILE:HG22	2.01	0.40
2:M:1020:PRO:HD2	2:M:1057:SER:OG	2.21	0.40
2:C:36:PRO:CB	2:C:70:GLU:HG2	2.50	0.40
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.86	0.40
3:D:155:ASP:HB2	9:D:9396:HOH:O	2.21	0.40
1:L:191:ASP:N	1:L:191:ASP:OD1	2.54	0.40
3:N:1165:TYR:HB2	9:N:2622:HOH:O	2.21	0.40
3:N:1243:THR:HG22	3:N:1244:GLY:N	2.36	0.40
3:D:704:ARG:HE	3:D:705:ALA:N	2.15	0.40
3:N:868:TYR:CE2	3:N:880:ILE:HD11	2.56	0.40
1:A:206:THR:HG22	1:A:209:GLU:CB	2.49	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:C:660:ALA:O	2:C:667:ALA:O	2.39	0.40
2:M:633:GLN:CD	2:M:633:GLN:N	2.75	0.40
2:M:676:ILE:CG2	2:M:988:VAL:HG22	2.51	0.40
1:K:85:LEU:HD12	1:K:127:LEU:HD23	2.04	0.40
1:A:114:PHE:HZ	1:A:142:VAL:HG11	1.85	0.40
1:L:206:THR:HG22	1:L:209:GLU:CG	2.51	0.40
5:F:194:LEU:HD11	9:F:597:HOH:O	2.20	0.40
1:K:227:ASN:HA	9:K:1490:HOH:O	2.20	0.40
2:C:958:THR:O	2:C:962:GLN:HG3	2.21	0.40
3:N:502:PHE:CZ	3:N:1452:ILE:HG13	2.56	0.40
3:N:925:GLU:OE2	4:O:5:GLY:HA2	2.21	0.40
3:D:574:LEU:O	3:D:577:ALA:HB3	2.21	0.40
3:D:99:ALA:HB1	3:D:575:GLN:OE1	2.21	0.40
3:N:1102:THR:O	3:N:1102:THR:HG22	2.20	0.40
2:M:745:ILE:HD12	9:M:1767:HOH:O	2.21	0.40
2:C:27:ARG:HA	9:C:9319:HOH:O	2.20	0.40
5:P:90:GLN:HB3	5:P:90:GLN:HE21	1.61	0.40
2:M:622:GLU:O	2:M:624:PRO:HD3	2.20	0.40
5:F:321:ILE:HD11	5:F:329:TYR:HB2	2.02	0.40
3:N:26:VAL:HG23	9:N:9132:HOH:O	2.21	0.40
3:D:179:VAL:HB	9:D:9636:HOH:O	2.21	0.40
3:D:1310:ARG:HA	9:D:9220:HOH:O	2.22	0.40
5:F:164:LYS:HA	5:F:171:LYS:HZ2	1.86	0.40
2:M:172:ILE:HG22	2:M:173:ASP:N	2.35	0.40
2:C:565:GLN:HG2	2:C:995:MET:HE1	2.03	0.40
1:L:41:ARG:CZ	1:L:177:VAL:HG23	2.51	0.40
2:C:42:VAL:HA	2:C:46:ALA:HB2	2.03	0.40
3:N:1422:MET:HE3	3:N:1426:LYS:HG2	2.03	0.40
2:M:996:LYS:HE2	9:M:1267:HOH:O	2.21	0.40
1:B:186:LEU:HD21	9:B:532:HOH:O	2.20	0.40
1:L:184:THR:CG2	9:L:7412:HOH:O	2.69	0.40
2:C:147:TYR:HE2	2:C:280:LYS:HZ2	1.67	0.40
3:D:111:LYS:NZ	3:D:1452:ILE:HB	2.36	0.40
2:C:816:LYS:HA	9:C:2136:HOH:O	2.22	0.40
3:D:1097:LYS:HE3	9:D:9369:HOH:O	2.20	0.40
3:N:580:ALA:HA	3:N:584:ASN:OD1	2.20	0.40
1:A:91:ASN:H	1:A:94:LEU:HD12	1.86	0.40
2:M:147:TYR:HE2	2:M:280:LYS:HD3	1.85	0.40
3:D:588:GLY:N	9:D:2504:HOH:O	2.55	0.40
3:N:799:LYS:N	3:N:826:PRO:HG2	2.35	0.40
1:L:46:SER:HB2	9:N:9448:HOH:O	2.20	0.40
3:N:642:CYS:SG	3:N:716:PHE:HB2	2.61	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:M:21:ILE:HD12	2:M:21:ILE:H	1.86	0.40
2:M:847:GLY:HA2	3:N:741:ASP:HA	2.03	0.40
5:F:301:ALA:N	9:F:468:HOH:O	2.54	0.40
3:D:1246:VAL:HA	9:D:2113:HOH:O	2.21	0.40
2:C:242:LEU:HA	2:C:242:LEU:HD23	1.89	0.40
1:A:136:GLY:HA3	9:A:318:HOH:O	2.20	0.40
3:D:138:LYS:HA	9:D:2484:HOH:O	2.21	0.40
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	2.04	0.40
2:C:984:GLU:CG	3:D:944:THR:HG22	2.51	0.40
3:N:421:LEU:HD12	3:N:444:VAL:HG23	2.04	0.40
2:M:1051:GLU:HB3	9:M:1321:HOH:O	2.20	0.40
3:D:569:ASN:O	3:D:573:MET:SD	2.80	0.40
4:O:24:ALA:O	4:O:28:GLN:NE2	2.54	0.40
3:N:61:GLY:HA3	3:N:64:LYS:NZ	2.37	0.40
3:N:83:SER:O	3:N:86:ARG:HB3	2.22	0.40
2:C:675:ALA:HA	2:C:989:VAL:CG1	2.45	0.40
2:C:674:VAL:HG21	2:C:871:LEU:HD12	2.02	0.40
2:C:135:VAL:HG11	2:C:406:HIS:O	2.21	0.40
2:M:334:ARG:NH1	2:M:418:LEU:HD11	2.36	0.40
1:L:89:PHE:CD2	1:L:146:ARG:NH2	2.89	0.40
3:N:654:LYS:CB	3:N:655:PRO:HD3	2.46	0.40
5:P:339:PRO:HB3	5:P:343:ASP:HB2	2.01	0.40
3:N:8:VAL:HG12	3:N:1434:TRP:CH2	2.56	0.40
3:N:208:PRO:CB	3:N:395:VAL:HG22	2.49	0.40
3:D:807:ALA:N	9:D:9131:HOH:O	2.54	0.40
3:N:408:GLU:H	3:N:408:GLU:HG3	1.64	0.40
2:C:272:ALA:N	9:C:9013:HOH:O	2.54	0.40
5:P:421:PHE:C	5:P:423:ASP:H	2.24	0.40
5:F:331:ASP:N	9:F:427:HOH:O	2.52	0.40
3:N:957:PRO:CD	3:N:1007:VAL:HG12	2.52	0.40
2:C:899:GLN:HG3	2:C:901:TYR:CZ	2.56	0.40
1:A:52:ALA:HB2	1:A:170:VAL:O	2.21	0.40
3:D:1282:ARG:HD3	3:D:1295:GLU:OE1	2.20	0.40
2:M:84:ARG:NH1	2:M:84:ARG:HB2	2.36	0.40
5:P:113:ILE:HA	5:P:116:LEU:HD12	2.03	0.40
2:C:35:PRO:HB3	9:C:9710:HOH:O	2.22	0.40
2:M:980:GLY:HA2	9:M:1302:HOH:O	2.21	0.40
3:N:1148:VAL:HG13	3:N:1163:GLY:O	2.21	0.40
2:M:14:PRO:HD2	9:M:2041:HOH:O	2.21	0.40
2:C:945:ARG:HB3	9:C:2219:HOH:O	2.22	0.40
2:M:1051:GLU:HG2	2:M:1055:LEU:HD12	2.03	0.40
3:D:1465:ASN:ND2	3:D:1470:ARG:HB3	2.36	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:D:493:ARG:NH2	3:D:1388:ARG:HB3	2.36	0.40
3:D:550:ARG:HD3	9:D:9553:HOH:O	2.21	0.40
2:C:474:VAL:HB	2:C:479:VAL:HG12	2.03	0.40
3:N:52:PRO:HD2	3:N:79:GLU:O	2.22	0.40
2:C:876:VAL:HB	2:C:877:PRO:HD3	2.03	0.40
2:M:545:ASN:CG	2:M:905:ILE:HD11	2.41	0.40
4:E:70:THR:HG22	4:E:71:GLY:H	1.85	0.40
4:E:72:ARG:N	9:E:100:HOH:O	2.53	0.40
2:C:15:LEU:HD13	2:C:583:LEU:HD11	2.03	0.40
2:M:876:VAL:HG11	2:M:885:ILE:HD11	2.02	0.40
2:M:1013:TYR:CE1	2:M:1020:PRO:HG3	2.45	0.40
1:L:42:ARG:HG2	1:L:42:ARG:NH1	2.35	0.40
2:M:751:PRO:HA	2:M:792:VAL:CG1	2.52	0.40
2:M:791:ARG:HH21	3:N:678:GLU:CD	2.25	0.40
1:L:50:GLY:HA3	1:L:173:PRO:HG3	2.04	0.40
2:M:854:PRO:C	2:M:856:GLU:N	2.73	0.40
2:M:107:LEU:HG	2:M:107:LEU:O	2.21	0.40
2:M:78:PHE:CD1	2:M:88:LEU:HD21	2.56	0.40
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.22	0.40
2:M:447:ALA:HA	9:M:2111:HOH:O	2.22	0.40
3:D:928:ALA:O	3:D:931:LEU:HB2	2.21	0.40
5:F:154:LYS:O	5:F:158:GLU:HG3	2.22	0.40
2:C:57:GLU:O	2:C:62:GLY:HA3	2.21	0.40
3:N:466:LYS:HE2	9:N:2020:HOH:O	2.22	0.40
1:A:103:ALA:HB1	1:A:107:LYS:HD3	2.03	0.40
3:D:108:VAL:HB	3:D:109:PRO:HD3	2.03	0.40
3:D:729:HIS:ND1	3:D:731:LEU:N	2.67	0.40
1:A:49:PRO:HA	1:A:148:VAL:HG22	2.02	0.40
3:N:1400:VAL:HG21	9:N:2376:HOH:O	2.21	0.40
3:N:1008:PHE:O	3:N:1012:GLU:HB3	2.21	0.40
3:N:1364:HIS:CD2	3:N:1366:LYS:HE3	2.56	0.40
3:D:967:ALA:HB1	3:D:995:LEU:HD11	2.03	0.40
3:N:1323:GLN:HE21	3:N:1323:GLN:HB2	1.69	0.40
3:N:1289:LYS:HD3	9:N:9576:HOH:O	2.21	0.40
2:C:83:CYS:SG	2:C:88:LEU:HD23	2.62	0.40
5:F:247:ILE:HG22	5:F:251:ILE:HD11	2.03	0.40
1:A:75:VAL:HA	1:A:78:ILE:HD12	2.04	0.40
5:F:280:GLN:OE1	5:F:281:GLU:HB2	2.22	0.40
2:M:120:LEU:HB2	9:M:1327:HOH:O	2.21	0.40
2:C:688:ILE:N	2:C:688:ILE:HD12	2.36	0.40
5:F:288:TYR:CD1	5:F:288:TYR:N	2.89	0.40
5:F:130:VAL:HG21	5:F:159:ILE:HG21	2.04	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:1074:SER:O	3:N:1077:ALA:HB3	2.20	0.40
3:D:421:LEU:HD12	3:D:435:VAL:CG1	2.51	0.40
2:M:159:ILE:C	9:M:1212:HOH:O	2.59	0.40
2:C:110:GLU:H	2:C:368:THR:HG21	1.86	0.40
3:D:92:HIS:HA	3:D:519:VAL:HG23	2.02	0.40
3:D:211:VAL:HG12	9:D:9908:HOH:O	2.21	0.40
2:M:721:ARG:O	2:M:759:THR:N	2.52	0.40
5:P:393:THR:O	5:P:397:ILE:HG13	2.21	0.40
3:N:82:LYS:HB3	3:N:83:SER:H	1.48	0.40
2:C:232:GLU:O	2:C:235:LEU:HB2	2.22	0.40
2:M:26:TYR:CZ	2:M:30:LEU:HD21	2.57	0.40
2:M:1030:GLN:HE22	3:N:628:ARG:NH2	2.07	0.40
2:C:1007:ALA:HB1	3:D:652:LEU:CD1	2.51	0.40
3:D:32:ILE:HG12	3:D:38:LYS:O	2.22	0.40
2:M:93:PRO:HA	9:M:1466:HOH:O	2.20	0.40
3:D:165:LYS:HD2	9:D:2397:HOH:O	2.20	0.40
3:D:208:PRO:CB	3:D:395:VAL:HG22	2.46	0.40
3:N:470:LEU:N	3:N:470:LEU:HD23	2.36	0.40
3:N:1264:GLU:CD	3:N:1425:THR:HB	2.42	0.40
2:M:833:LEU:HD12	2:M:833:LEU:HA	1.93	0.40
3:N:1258:ARG:HG3	3:N:1262:LEU:CD1	2.51	0.40
2:M:428:ARG:HD3	2:M:449:ILE:HG23	2.02	0.40
3:D:1412:LYS:HE3	3:D:1414:PRO:CG	2.51	0.40
3:D:1487:VAL:O	4:E:73:LEU:HD23	2.21	0.40
3:N:1267:ARG:HG2	9:N:2282:HOH:O	2.21	0.40
4:O:31:LEU:HA	4:O:35:PHE:HD1	1.86	0.40
4:O:39:VAL:CG2	4:O:72:ARG:HG3	2.50	0.40
3:D:675:ARG:HH22	5:F:419:ARG:NH2	2.19	0.40
2:M:1109:VAL:HG21	3:N:3:LYS:O	2.22	0.40
3:N:2:LYS:N	9:N:2350:HOH:O	2.55	0.40
1:A:46:SER:HB3	2:C:856:GLU:CD	2.42	0.40
4:E:54:LEU:HA	4:E:58:PRO:CG	2.51	0.40
2:C:878:SER:N	9:C:9546:HOH:O	2.53	0.40
3:D:965:GLU:HG3	3:D:969:ARG:HH21	1.86	0.40
3:N:135:LEU:HD11	3:N:139:GLY:HA3	2.04	0.40
1:B:140:MET:HG2	9:B:467:HOH:O	2.21	0.40
3:N:633:VAL:O	3:N:635:PRO:HD3	2.20	0.40
3:D:168:THR:O	3:D:392:SER:HA	2.22	0.40
2:C:532:MET:N	9:C:9955:HOH:O	2.53	0.40
2:M:74:GLY:O	2:M:76:PRO:HD3	2.21	0.40
3:N:1130:ARG:N	9:N:2064:HOH:O	2.53	0.40
2:C:203:ASP:OD1	2:C:206:THR:HG22	2.22	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:N:767:HIS:CE1	4:O:2:ALA:HB1	2.57	0.40
1:A:66:SER:HB3	9:A:333:HOH:O	2.21	0.40
2:C:632:ASN:ND2	9:C:9837:HOH:O	2.52	0.40
2:C:524:VAL:HG22	2:C:528:GLU:CD	2.41	0.40
2:C:761:PHE:HD2	9:C:9711:HOH:O	2.04	0.40
5:F:118:GLU:HG2	9:F:503:HOH:O	2.20	0.40
3:N:27:GLU:H	3:N:27:GLU:HG2	1.69	0.40
3:D:660:LYS:HD2	3:D:663:GLU:OE2	2.20	0.40
1:K:6:LEU:HD11	9:K:2204:HOH:O	2.22	0.40
3:D:106:LYS:NZ	3:D:125:GLN:HB2	2.36	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%)	200 (88%)	22 (10%)	5 (2%)	10	11
1	B	227/315 (72%)	200 (88%)	22 (10%)	5 (2%)	10	11
1	K	227/315 (72%)	200 (88%)	23 (10%)	4 (2%)	13	15
1	L	227/315 (72%)	200 (88%)	23 (10%)	4 (2%)	13	15
2	C	1117/1119 (100%)	927 (83%)	138 (12%)	52 (5%)	4	2
2	M	1117/1119 (100%)	926 (83%)	142 (13%)	49 (4%)	4	2
3	D	1388/1524 (91%)	1155 (83%)	168 (12%)	65 (5%)	4	2
3	N	1388/1524 (91%)	1133 (82%)	187 (14%)	68 (5%)	3	2
4	E	93/99 (94%)	76 (82%)	13 (14%)	4 (4%)	4	3
4	O	93/99 (94%)	76 (82%)	13 (14%)	4 (4%)	4	3
5	F	341/423 (81%)	290 (85%)	35 (10%)	16 (5%)	4	2
5	P	341/423 (81%)	288 (84%)	38 (11%)	15 (4%)	4	2
All	All	6786/7590 (89%)	5671 (84%)	824 (12%)	291 (4%)	4	3

All (291) 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	231	PRO
2	C	244	PRO
2	C	288	ARG
2	C	290	LEU
2	C	369	PRO
2	C	465	GLY
2	C	548	PRO
2	C	680	ASP
2	C	908	GLY
2	C	1106	ASP
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	783	ARG
3	D	832	ARG
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	329	TYR
5	F	390	PHE

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Mol	Chain	Res	Type
1	K	29	GLU
1	L	29	GLU
2	M	152	PRO
2	M	231	PRO
2	M	244	PRO
2	M	261	ILE
2	M	262	ALA
2	M	288	ARG
2	M	290	LEU
2	M	369	PRO
2	M	462	ASP
2	M	465	GLY
2	M	548	PRO
2	M	680	ASP
2	M	864	GLY
2	M	908	GLY
2	M	1106	ASP
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	504	ASP
3	N	783	ARG
3	N	832	ARG
3	N	1028	ALA
3	N	1125	PRO
3	N	1129	THR
3	N	1208	ASP
3	N	1243	THR
3	N	1441	GLN
4	O	42	PRO
4	O	58	PRO

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Mol	Chain	Res	Type
5	P	147	LEU
5	P	153	PRO
5	P	390	PHE
1	B	187	GLY
2	C	59	LYS
2	C	156	GLY
2	C	164	PRO
2	C	170	PRO
2	C	178	PRO
2	C	261	ILE
2	C	262	ALA
2	C	363	SER
2	C	400	PRO
2	C	462	ASP
2	C	517	ARG
2	C	529	VAL
2	C	626	ARG
2	C	864	GLY
2	C	1004	LYS
3	D	96	ALA
3	D	417	PRO
3	D	451	ASP
3	D	594	PRO
3	D	609	GLY
3	D	803	GLY
3	D	844	ALA
4	E	53	GLY
5	F	232	ARG
5	F	324	GLU
5	F	341	PRO
1	L	187	GLY
2	M	59	LYS
2	M	156	GLY
2	M	164	PRO
2	M	170	PRO
2	M	178	PRO
2	M	517	ARG
2	M	626	ARG
2	M	1097	LEU
3	N	96	ALA
3	N	417	PRO
3	N	440	VAL

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Mol	Chain	Res	Type
3	N	451	ASP
3	N	594	PRO
3	N	609	GLY
3	N	803	GLY
3	N	822	ALA
3	N	844	ALA
4	O	53	GLY
5	P	232	ARG
5	P	324	GLU
5	P	341	PRO
1	A	187	GLY
2	C	144	PRO
2	C	251	ASP
2	C	268	ASP
2	C	418	LEU
2	C	436	GLY
2	C	727	PRO
2	C	1097	LEU
3	D	31	THR
3	D	34	TYR
3	D	37	LEU
3	D	231	VAL
3	D	416	ALA
3	D	782	SER
3	D	822	ALA
3	D	1385	GLY
5	F	97	GLU
5	F	286	PRO
5	F	325	LYS
5	F	420	ASP
1	K	187	GLY
2	M	251	ASP
2	M	268	ASP
2	M	363	SER
2	M	436	GLY
2	M	529	VAL
2	M	627	ARG
2	M	727	PRO
2	M	1079	PRO
3	N	31	THR
3	N	34	TYR
3	N	37	LEU

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Mol	Chain	Res	Type
3	N	416	ALA
3	N	424	GLY
3	N	705	ALA
3	N	1385	GLY
5	P	286	PRO
5	P	288	TYR
5	P	325	LYS
1	A	106	PRO
1	B	188	GLN
2	C	40	GLU
2	C	74	GLY
2	C	111	ASP
2	C	180	GLY
2	C	292	ARG
2	C	336	VAL
2	C	627	ARG
2	C	1079	PRO
3	D	24	GLY
3	D	170	PRO
3	D	387	LEU
3	D	424	GLY
3	D	522	PRO
3	D	808	THR
3	D	1248	GLY
3	D	1389	LEU
5	F	288	TYR
5	F	297	PRO
5	F	364	ARG
1	K	106	PRO
1	K	188	GLN
2	M	40	GLU
2	M	74	GLY
2	M	180	GLY
2	M	420	ARG
3	N	24	GLY
3	N	170	PRO
3	N	387	LEU
3	N	425	GLY
3	N	782	SER
3	N	808	THR
3	N	1248	GLY
3	N	1388	ARG

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Mol	Chain	Res	Type
5	P	393	THR
5	P	420	ASP
1	A	188	GLN
1	B	106	PRO
2	C	420	ARG
2	C	1024	LYS
3	D	46	ASP
3	D	120	ALA
3	D	425	GLY
3	D	526	PRO
3	D	696	HIS
3	D	705	ALA
3	D	1288	GLU
1	L	106	PRO
1	L	188	GLN
2	M	223	ASP
2	M	282	GLY
2	M	292	ARG
2	M	418	LEU
2	M	457	ALA
2	M	1024	LYS
3	N	46	ASP
3	N	231	VAL
3	N	415	VAL
3	N	522	PRO
3	N	526	PRO
3	N	613	ARG
3	N	1213	ARG
3	N	1286	THR
3	N	1342	GLU
5	P	97	GLU
5	P	297	PRO
5	P	364	ARG
2	C	425	PHE
2	C	447	ALA
2	C	779	GLY
2	C	905	ILE
3	D	533	GLY
3	D	670	VAL
3	D	1213	ARG
2	M	336	VAL
2	M	447	ALA

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Mol	Chain	Res	Type
2	M	779	GLY
3	N	98	PRO
3	N	1197	ARG
3	D	415	VAL
3	D	1064	GLY
5	F	167	PRO
3	N	173	PRO
3	N	1064	GLY
3	N	1306	PRO
3	N	1349	VAL
5	P	167	PRO
2	C	79	PRO
2	C	282	GLY
2	C	767	PRO
3	D	173	PRO
4	E	5	GLY
2	M	400	PRO
2	M	767	PRO
3	N	670	VAL
4	O	5	GLY
1	A	9	PRO
2	C	424	GLY
3	D	595	GLY
3	N	368	VAL
3	N	530	VAL
3	D	136	ASP
3	D	530	VAL
5	F	285	GLU
2	M	79	PRO
2	M	144	PRO
3	N	169	TYR
3	N	595	GLY
3	D	169	TYR
3	D	407	VAL
3	D	1306	PRO
3	D	1349	VAL
3	N	407	VAL
2	M	166	PRO
2	C	166	PRO

### 5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	202/273 (74%)	149 (74%)	53 (26%)	1	0
1	B	202/273 (74%)	167 (83%)	35 (17%)	3	3
1	K	202/273 (74%)	154 (76%)	48 (24%)	1	1
1	L	202/273 (74%)	152 (75%)	50 (25%)	1	1
2	C	941/941 (100%)	722 (77%)	219 (23%)	1	1
2	M	941/941 (100%)	731 (78%)	210 (22%)	1	1
3	D	1123/1279 (88%)	861 (77%)	262 (23%)	1	1
3	N	1123/1279 (88%)	832 (74%)	291 (26%)	1	1
4	E	83/87 (95%)	65 (78%)	18 (22%)	1	1
4	O	83/87 (95%)	61 (74%)	22 (26%)	1	0
5	F	295/370 (80%)	234 (79%)	61 (21%)	2	2
5	P	295/370 (80%)	242 (82%)	53 (18%)	2	3
All	All	5692/6446 (88%)	4370 (77%)	1322 (23%)	1	1

All (1322) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	4	SER
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	62	LEU
1	A	73	GLU
1	A	74	ASP

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Mol	Chain	Res	Type
1	A	84	GLU
1	A	89	PHE
1	A	92	PRO
1	A	94	LEU
1	A	96	THR
1	A	100	LEU
1	A	101	LEU
1	A	104	GLU
1	A	115	LEU
1	A	119	ASP
1	A	120	VAL
1	A	121	GLU
1	A	127	LEU
1	A	137	ARG
1	A	139	ASN
1	A	145	ASP
1	A	159	LYS
1	A	167	VAL
1	A	168	ASP
1	A	170	VAL
1	A	176	ARG
1	A	179	PHE
1	A	180	GLN
1	A	183	ASP
1	A	186	LEU
1	A	188	GLN
1	A	189	ARG
1	A	190	THR
1	A	191	ASP
1	A	193	ASP
1	A	196	THR
1	A	197	LEU
1	A	198	ARG
1	A	204	SER
1	A	211	LEU
1	A	215	VAL
1	A	227	ASN
1	A	229	GLN
1	B	1	MET
1	B	7	LYS
1	B	9	PRO
1	B	25	LEU

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Mol	Chain	Res	Type
1	B	26	GLU
1	B	38	ASN
1	B	62	LEU
1	B	65	PHE
1	B	77	GLU
1	B	80	LEU
1	B	81	ASN
1	B	88	ARG
1	B	89	PHE
1	B	94	LEU
1	B	95	GLN
1	B	101	LEU
1	B	112	ARG
1	B	119	ASP
1	B	128	HIS
1	B	138	LEU
1	B	140	MET
1	B	145	ASP
1	B	150	TYR
1	B	159	LYS
1	B	161	ARG
1	B	176	ARG
1	B	186	LEU
1	B	190	THR
1	B	193	ASP
1	B	200	TRP
1	B	208	LEU
1	B	209	GLU
1	B	220	GLU
1	B	221	HIS
1	B	224	TYR
2	C	5	ARG
2	C	15	LEU
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	41	ASN
2	C	48	PHE
2	C	52	PHE

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Mol	Chain	Res	Type
2	C	55	GLU
2	C	65	VAL
2	C	71	TYR
2	C	72	ARG
2	C	88	LEU
2	C	89	THR
2	C	90	TYR
2	C	91	GLN
2	C	95	TYR
2	C	98	LEU
2	C	100	LEU
2	C	102	HIS
2	C	104	ASP
2	C	107	LEU
2	C	108	ILE
2	C	110	GLU
2	C	111	ASP
2	C	114	PHE
2	C	115	LEU
2	C	117	HIS
2	C	133	ASP
2	C	140	ILE
2	C	141	HIS
2	C	143	SER
2	C	150	PRO
2	C	152	PRO
2	C	158	TYR
2	C	163	ILE
2	C	170	PRO
2	C	178	PRO
2	C	187	ASN
2	C	198	ARG
2	C	205	GLU
2	C	209	ARG
2	C	219	GLN
2	C	221	LEU
2	C	222	MET
2	C	229	MET
2	C	237	ARG
2	C	240	THR
2	C	250	ARG
2	C	252	LYS

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Mol	Chain	Res	Type
2	C	254	VAL
2	C	260	LEU
2	C	266	ARG
2	C	267	TYR
2	C	268	ASP
2	C	275	TYR
2	C	278	GLU
2	C	279	GLU
2	C	281	LEU
2	C	285	LEU
2	C	286	SER
2	C	288	ARG
2	C	290	LEU
2	C	293	PHE
2	C	294	GLU
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	338	GLU
2	C	343	GLN
2	C	345	ARG
2	C	348	LEU
2	C	357	GLU
2	C	359	MET
2	C	360	LEU
2	C	361	MET
2	C	363	SER
2	C	365	ASP
2	C	366	SER
2	C	367	LEU
2	C	371	LYS
2	C	376	ARG
2	C	379	GLU
2	C	384	GLU
2	C	388	ARG
2	C	393	GLN
2	C	396	ASP

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Mol	Chain	Res	Type
2	C	400	PRO
2	C	402	SER
2	C	408	ARG
2	C	413	LEU
2	C	420	ARG
2	C	425	PHE
2	C	429	ASP
2	C	430	VAL
2	C	432	ARG
2	C	443	THR
2	C	448	ASN
2	C	452	ILE
2	C	454	SER
2	C	455	LEU
2	C	469	THR
2	C	474	VAL
2	C	479	VAL
2	C	486	MET
2	C	491	GLU
2	C	492	ASP
2	C	494	TYR
2	C	496	ILE
2	C	502	PRO
2	C	503	LEU
2	C	524	VAL
2	C	527	GLU
2	C	532	MET
2	C	533	ASP
2	C	543	ASN
2	C	556	ASN
2	C	557	ARG
2	C	564	MET
2	C	566	THR
2	C	583	LEU
2	C	584	GLU
2	C	585	GLU
2	C	589	ARG
2	C	607	ASP
2	C	620	LEU
2	C	622	GLU
2	C	627	ARG
2	C	633	GLN

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Mol	Chain	Res	Type
2	C	640	ARG
2	C	645	VAL
2	C	657	ASP
2	C	663	ASN
2	C	668	LEU
2	C	672	VAL
2	C	679	PHE
2	C	685	GLU
2	C	690	ILE
2	C	697	ARG
2	C	698	ASP
2	C	699	PHE
2	C	701	THR
2	C	703	ILE
2	C	708	TYR
2	C	724	ARG
2	C	727	PRO
2	C	729	LEU
2	C	743	VAL
2	C	771	GLU
2	C	780	GLU
2	C	785	VAL
2	C	791	ARG
2	C	799	ILE
2	C	813	VAL
2	C	821	GLU
2	C	824	ARG
2	C	829	GLN
2	C	834	GLN
2	C	839	LEU
2	C	841	ASN
2	C	861	LEU
2	C	863	ASP
2	C	870	ILE
2	C	881	ASN
2	C	886	LEU
2	C	890	LEU
2	C	905	ILE
2	C	907	ASP
2	C	913	GLU
2	C	923	GLU
2	C	925	TYR

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Mol	Chain	Res	Type
2	C	934	PHE
2	C	937	ASP
2	C	938	LYS
2	C	939	ARG
2	C	940	GLU
2	C	950	LEU
2	C	958	THR
2	C	960	GLU
2	C	971	LYS
2	C	976	ASP
2	C	978	ARG
2	C	989	VAL
2	C	995	MET
2	C	1002	GLU
2	C	1006	HIS
2	C	1016	ILE
2	C	1019	GLN
2	C	1020	PRO
2	C	1021	LEU
2	C	1026	GLN
2	C	1034	GLU
2	C	1035	MET
2	C	1052	MET
2	C	1054	THR
2	C	1060	ILE
2	C	1061	GLU
2	C	1076	VAL
2	C	1083	GLU
2	C	1084	SER
2	C	1085	PHE
2	C	1087	VAL
2	C	1091	GLU
2	C	1092	LEU
2	C	1097	LEU
2	C	1098	ASP
2	C	1107	ASN
2	C	1109	VAL
2	C	1111	ILE
2	C	1113	GLU
2	C	1115	LEU
3	D	3	LYS
3	D	4	GLU

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Mol	Chain	Res	Type
3	D	6	ARG
3	D	7	LYS
3	D	9	ARG
3	D	12	LEU
3	D	17	LYS
3	D	20	SER
3	D	27	GLU
3	D	29	PRO
3	D	32	ILE
3	D	33	ASN
3	D	35	ARG
3	D	40	GLU
3	D	41	ARG
3	D	42	ASP
3	D	47	GLU
3	D	55	ASP
3	D	56	TYR
3	D	58	CYS
3	D	68	PHE
3	D	76	CYS
3	D	80	VAL
3	D	82	LYS
3	D	85	VAL
3	D	102	ILE
3	D	103	TRP
3	D	107	ASP
3	D	112	ILE
3	D	115	LEU
3	D	118	LEU
3	D	133	ILE
3	D	145	VAL
3	D	147	VAL
3	D	149	LYS
3	D	150	ARG
3	D	153	LEU
3	D	154	THR
3	D	155	ASP
3	D	156	GLU
3	D	161	LEU
3	D	162	ARG
3	D	166	GLN
3	D	167	GLU

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Mol	Chain	Res	Type
3	D	170	PRO
3	D	171	LEU
3	D	172	PRO
3	D	185	VAL
3	D	199	LEU
3	D	204	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	395	VAL
3	D	404	GLU
3	D	410	SER
3	D	411	THR
3	D	413	ASP
3	D	421	LEU
3	D	430	ASP
3	D	432	TYR
3	D	444	VAL
3	D	445	ARG
3	D	448	GLU
3	D	450	TYR
3	D	452	ILE
3	D	456	MET
3	D	465	LEU
3	D	466	LYS
3	D	475	LYS
3	D	479	GLU
3	D	481	MET
3	D	483	HIS
3	D	488	ARG
3	D	491	LYS
3	D	497	GLU
3	D	498	VAL
3	D	502	PHE
3	D	503	LEU
3	D	513	ILE
3	D	521	PRO
3	D	529	GLN
3	D	531	ASP

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Mol	Chain	Res	Type
3	D	538	SER
3	D	540	LEU
3	D	542	ASP
3	D	554	LEU
3	D	560	GLN
3	D	565	ILE
3	D	571	LYS
3	D	590	PRO
3	D	593	ASN
3	D	594	PRO
3	D	597	ASP
3	D	598	ARG
3	D	601	ARG
3	D	613	ARG
3	D	614	PHE
3	D	615	ARG
3	D	617	ASN
3	D	636	GLN
3	D	639	LEU
3	D	641	GLN
3	D	651	GLU
3	D	656	PHE
3	D	659	LYS
3	D	662	GLU
3	D	675	ARG
3	D	676	MET
3	D	681	ARG
3	D	682	ASP
3	D	688	TRP
3	D	695	ILE
3	D	704	ARG
3	D	707	THR
3	D	709	HIS
3	D	710	ARG
3	D	716	PHE
3	D	719	VAL
3	D	724	GLN
3	D	734	GLU
3	D	739	ASP
3	D	743	ASP
3	D	749	VAL
3	D	752	SER

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Mol	Chain	Res	Type
3	D	754	PHE
3	D	762	GLN
3	D	783	ARG
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	824	ASN
3	D	828	LYS
3	D	832	ARG
3	D	833	GLU
3	D	839	LEU
3	D	847	ASP
3	D	850	LEU
3	D	859	ASP
3	D	862	ASP
3	D	863	VAL
3	D	867	ARG
3	D	873	LEU
3	D	879	ARG
3	D	880	ILE
3	D	886	VAL
3	D	897	TRP
3	D	898	GLU
3	D	901	GLN
3	D	904	VAL
3	D	907	GLU
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	929	ARG
3	D	930	LEU
3	D	951	ILE
3	D	961	LYS
3	D	987	GLU
3	D	988	ARG
3	D	994	GLN

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Mol	Chain	Res	Type
3	D	1001	GLU
3	D	1021	TYR
3	D	1029	ARG
3	D	1032	PRO
3	D	1042	ARG
3	D	1049	SER
3	D	1051	GLU
3	D	1052	THR
3	D	1058	ARG
3	D	1062	ARG
3	D	1065	LEU
3	D	1068	LEU
3	D	1070	TYR
3	D	1079	LYS
3	D	1087	ARG
3	D	1097	LYS
3	D	1109	GLU
3	D	1111	ASP
3	D	1112	CYS
3	D	1116	ASN
3	D	1127	GLU
3	D	1132	LEU
3	D	1139	ASP
3	D	1144	LEU
3	D	1154	GLU
3	D	1161	GLU
3	D	1164	ARG
3	D	1173	LEU
3	D	1176	LYS
3	D	1183	ILE
3	D	1190	SER
3	D	1191	PRO
3	D	1207	TYR
3	D	1223	ILE
3	D	1228	SER
3	D	1231	GLU
3	D	1234	THR
3	D	1236	LEU
3	D	1238	MET
3	D	1242	HIS
3	D	1243	THR
3	D	1251	ASP

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Mol	Chain	Res	Type
3	D	1258	ARG
3	D	1259	VAL
3	D	1260	ILE
3	D	1262	LEU
3	D	1264	GLU
3	D	1266	ARG
3	D	1267	ARG
3	D	1269	LYS
3	D	1274	ILE
3	D	1280	VAL
3	D	1288	GLU
3	D	1295	GLU
3	D	1299	PHE
3	D	1302	GLU
3	D	1307	LYS
3	D	1310	ARG
3	D	1311	LEU
3	D	1314	LYS
3	D	1317	ASP
3	D	1318	TYR
3	D	1320	GLU
3	D	1335	LEU
3	D	1344	VAL
3	D	1346	ARG
3	D	1353	GLN
3	D	1363	LEU
3	D	1368	ILE
3	D	1372	VAL
3	D	1377	LYS
3	D	1382	THR
3	D	1388	ARG
3	D	1389	LEU
3	D	1401	GLU
3	D	1403	LEU
3	D	1410	GLU
3	D	1420	LEU
3	D	1424	VAL
3	D	1432	LYS
3	D	1435	LEU
3	D	1440	PHE
3	D	1449	GLU
3	D	1460	ILE

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Mol	Chain	Res	Type
3	D	1463	LYS
3	D	1465	ASN
3	D	1466	VAL
3	D	1480	PHE
3	D	1481	VAL
3	D	1485	GLN
3	D	1488	ASP
3	D	1496	GLU
4	E	7	ASP
4	E	10	PHE
4	E	14	ASP
4	E	28	GLN
4	E	31	LEU
4	E	32	ARG
4	E	40	LEU
4	E	42	PRO
4	E	43	GLU
4	E	45	ARG
4	E	52	GLU
4	E	59	ASN
4	E	61	GLU
4	E	66	LYS
4	E	67	GLU
4	E	81	PRO
4	E	89	MET
4	E	91	ARG
5	F	76	SER
5	F	78	SER
5	F	83	GLN
5	F	84	TYR
5	F	87	GLU
5	F	101	GLU
5	F	123	ASP
5	F	125	ASP
5	F	132	ARG
5	F	134	LYS
5	F	135	ILE
5	F	136	LEU
5	F	142	ARG
5	F	149	GLU
5	F	150	THR
5	F	170	HIS

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Mol	Chain	Res	Type
5	F	174	LEU
5	F	181	GLU
5	F	187	LEU
5	F	192	LEU
5	F	194	LEU
5	F	209	PHE
5	F	211	ASP
5	F	228	GLU
5	F	229	TYR
5	F	233	PHE
5	F	240	THR
5	F	245	GLN
5	F	249	ARG
5	F	280	GLN
5	F	282	LEU
5	F	284	ARG
5	F	286	PRO
5	F	288	TYR
5	F	295	MET
5	F	297	PRO
5	F	302	LYS
5	F	312	GLN
5	F	313	GLU
5	F	316	SER
5	F	328	PHE
5	F	329	TYR
5	F	336	GLU
5	F	341	PRO
5	F	343	ASP
5	F	347	GLN
5	F	348	SER
5	F	349	LEU
5	F	351	SER
5	F	364	ARG
5	F	365	GLU
5	F	370	LYS
5	F	399	GLN
5	F	403	LYS
5	F	405	LEU
5	F	408	LEU
5	F	410	TYR
5	F	414	ARG

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Mol	Chain	Res	Type
5	F	419	ARG
5	F	420	ASP
5	F	422	LEU
1	K	1	MET
1	K	5	LYS
1	K	9	PRO
1	K	12	THR
1	K	15	THR
1	K	16	GLN
1	K	18	ARG
1	K	26	GLU
1	K	43	ILE
1	K	44	LEU
1	K	45	LEU
1	K	55	SER
1	K	64	GLU
1	K	66	SER
1	K	67	THR
1	K	73	GLU
1	K	76	VAL
1	K	80	LEU
1	K	86	VAL
1	K	88	ARG
1	K	89	PHE
1	K	92	PRO
1	K	107	LYS
1	K	112	ARG
1	K	113	ASP
1	K	115	LEU
1	K	126	ASP
1	K	127	LEU
1	K	143	ARG
1	K	145	ASP
1	K	146	ARG
1	K	148	VAL
1	K	176	ARG
1	K	180	GLN
1	K	184	THR
1	K	185	ARG
1	K	186	LEU
1	K	196	THR
1	K	197	LEU

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Mol	Chain	Res	Type
1	K	198	ARG
1	K	201	THR
1	K	206	THR
1	K	211	LEU
1	K	216	GLU
1	K	219	ARG
1	K	222	LEU
1	K	227	ASN
1	K	229	GLN
1	L	5	LYS
1	L	7	LYS
1	L	16	GLN
1	L	19	GLU
1	L	25	LEU
1	L	30	ARG
1	L	32	PHE
1	L	38	ASN
1	L	41	ARG
1	L	46	SER
1	L	47	SER
1	L	51	THR
1	L	55	SER
1	L	60	ASP
1	L	65	PHE
1	L	66	SER
1	L	67	THR
1	L	73	GLU
1	L	84	GLU
1	L	89	PHE
1	L	91	ASN
1	L	92	PRO
1	L	93	SER
1	L	95	GLN
1	L	96	THR
1	L	101	LEU
1	L	104	GLU
1	L	110	LYS
1	L	113	ASP
1	L	121	GLU
1	L	124	ASN
1	L	126	ASP
1	L	128	HIS

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Mol	Chain	Res	Type
1	L	138	LEU
1	L	140	MET
1	L	145	ASP
1	L	159	LYS
1	L	161	ARG
1	L	163	ASN
1	L	167	VAL
1	L	176	ARG
1	L	182	GLU
1	L	188	GLN
1	L	190	THR
1	L	197	LEU
1	L	204	SER
1	L	205	VAL
1	L	206	THR
1	L	208	LEU
1	L	220	GLU
2	M	5	ARG
2	M	8	ARG
2	M	10	ARG
2	M	15	LEU
2	M	20	GLU
2	M	22	GLN
2	M	26	TYR
2	M	27	ARG
2	M	30	LEU
2	M	31	GLN
2	M	34	VAL
2	M	39	ARG
2	M	41	ASN
2	M	48	PHE
2	M	51	THR
2	M	52	PHE
2	M	58	ASP
2	M	64	LEU
2	M	81	ASP
2	M	89	THR
2	M	90	TYR
2	M	91	GLN
2	M	95	TYR
2	M	107	LEU
2	M	108	ILE

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Mol	Chain	Res	Type
2	M	111	ASP
2	M	113	VAL
2	M	114	PHE
2	M	115	LEU
2	M	117	HIS
2	M	118	ILE
2	M	126	SER
2	M	133	ASP
2	M	134	ARG
2	M	140	ILE
2	M	141	HIS
2	M	143	SER
2	M	144	PRO
2	M	149	THR
2	M	152	PRO
2	M	157	ARG
2	M	158	TYR
2	M	163	ILE
2	M	165	LEU
2	M	168	ARG
2	M	173	ASP
2	M	192	PRO
2	M	194	VAL
2	M	198	ARG
2	M	209	ARG
2	M	221	LEU
2	M	222	MET
2	M	229	MET
2	M	233	GLU
2	M	237	ARG
2	M	238	LEU
2	M	239	PHE
2	M	241	LEU
2	M	242	LEU
2	M	243	ARG
2	M	249	LYS
2	M	252	LYS
2	M	254	VAL
2	M	267	TYR
2	M	279	GLU
2	M	285	LEU
2	M	288	ARG

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Mol	Chain	Res	Type
2	M	289	THR
2	M	290	LEU
2	M	293	PHE
2	M	295	ASP
2	M	297	GLU
2	M	303	PHE
2	M	304	LEU
2	M	308	ARG
2	M	309	TYR
2	M	321	GLU
2	M	323	ASP
2	M	326	ASP
2	M	327	HIS
2	M	341	THR
2	M	343	GLN
2	M	359	MET
2	M	367	LEU
2	M	371	LYS
2	M	374	ASN
2	M	376	ARG
2	M	383	ARG
2	M	390	GLN
2	M	393	GLN
2	M	397	GLU
2	M	398	THR
2	M	399	ASN
2	M	400	PRO
2	M	413	LEU
2	M	420	ARG
2	M	425	PHE
2	M	426	ASP
2	M	427	VAL
2	M	439	CYS
2	M	443	THR
2	M	451	LEU
2	M	454	SER
2	M	455	LEU
2	M	460	ARG
2	M	468	ARG
2	M	469	THR
2	M	474	VAL
2	M	479	VAL

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Mol	Chain	Res	Type
2	M	481	ASP
2	M	482	GLU
2	M	503	LEU
2	M	508	ILE
2	M	533	ASP
2	M	551	GLU
2	M	554	ASP
2	M	562	SER
2	M	563	ASN
2	M	564	MET
2	M	571	LEU
2	M	581	THR
2	M	589	ARG
2	M	605	LYS
2	M	606	VAL
2	M	607	ASP
2	M	610	ARG
2	M	620	LEU
2	M	626	ARG
2	M	627	ARG
2	M	630	ARG
2	M	639	GLN
2	M	640	ARG
2	M	645	VAL
2	M	650	ARG
2	M	653	ASP
2	M	657	ASP
2	M	663	ASN
2	M	668	LEU
2	M	672	VAL
2	M	680	ASP
2	M	684	PHE
2	M	685	GLU
2	M	689	VAL
2	M	693	GLU
2	M	697	ARG
2	M	699	PHE
2	M	701	THR
2	M	706	GLU
2	M	714	ASP
2	M	715	THR
2	M	717	LEU

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Mol	Chain	Res	Type
2	M	727	PRO
2	M	729	LEU
2	M	749	VAL
2	M	768	THR
2	M	784	ASP
2	M	785	VAL
2	M	791	ARG
2	M	799	ILE
2	M	805	ARG
2	M	807	ARG
2	M	808	ARG
2	M	814	GLU
2	M	821	GLU
2	M	835	VAL
2	M	839	LEU
2	M	841	ASN
2	M	861	LEU
2	M	863	ASP
2	M	869	VAL
2	M	870	ILE
2	M	881	ASN
2	M	882	LEU
2	M	886	LEU
2	M	897	LEU
2	M	902	ILE
2	M	907	ASP
2	M	910	LYS
2	M	911	GLU
2	M	923	GLU
2	M	925	TYR
2	M	937	ASP
2	M	941	VAL
2	M	946	ARG
2	M	950	LEU
2	M	972	VAL
2	M	975	TYR
2	M	981	GLU
2	M	984	GLU
2	M	988	VAL
2	M	1002	GLU
2	M	1017	THR
2	M	1035	MET

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Mol	Chain	Res	Type
2	M	1040	LEU
2	M	1050	GLN
2	M	1058	ASP
2	M	1060	ILE
2	M	1061	GLU
2	M	1072	LYS
2	M	1079	PRO
2	M	1088	LEU
2	M	1091	GLU
2	M	1097	LEU
2	M	1098	ASP
2	M	1100	GLN
2	M	1104	GLU
2	M	1109	VAL
2	M	1111	ILE
2	M	1118	LYS
2	M	1119	ARG
3	N	6	ARG
3	N	7	LYS
3	N	12	LEU
3	N	15	PRO
3	N	17	LYS
3	N	20	SER
3	N	32	ILE
3	N	34	TYR
3	N	52	PRO
3	N	56	TYR
3	N	62	LYS
3	N	64	LYS
3	N	65	ARG
3	N	67	ARG
3	N	68	PHE
3	N	69	GLU
3	N	71	LYS
3	N	74	GLU
3	N	76	CYS
3	N	82	LYS
3	N	85	VAL
3	N	86	ARG
3	N	87	ARG
3	N	95	LEU
3	N	103	TRP

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Mol	Chain	Res	Type
3	N	117	ASP
3	N	119	SER
3	N	122	GLU
3	N	123	LEU
3	N	128	TYR
3	N	142	LEU
3	N	145	VAL
3	N	147	VAL
3	N	152	LEU
3	N	153	LEU
3	N	160	GLU
3	N	162	ARG
3	N	165	LYS
3	N	169	TYR
3	N	170	PRO
3	N	171	LEU
3	N	176	ASP
3	N	185	VAL
3	N	190	GLU
3	N	199	LEU
3	N	204	LEU
3	N	206	ARG
3	N	208	PRO
3	N	389	GLU
3	N	395	VAL
3	N	401	TYR
3	N	405	ASP
3	N	408	GLU
3	N	411	THR
3	N	419	ASP
3	N	420	VAL
3	N	421	LEU
3	N	427	VAL
3	N	429	SER
3	N	430	ASP
3	N	432	TYR
3	N	434	ARG
3	N	445	ARG
3	N	448	GLU
3	N	451	ASP
3	N	452	ILE
3	N	456	MET

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Mol	Chain	Res	Type
3	N	459	GLU
3	N	462	GLN
3	N	465	LEU
3	N	470	LEU
3	N	475	LYS
3	N	481	MET
3	N	483	HIS
3	N	486	ARG
3	N	491	LYS
3	N	493	ARG
3	N	502	PHE
3	N	505	SER
3	N	513	ILE
3	N	521	PRO
3	N	530	VAL
3	N	531	ASP
3	N	537	THR
3	N	542	ASP
3	N	543	LEU
3	N	549	ASN
3	N	565	ILE
3	N	569	ASN
3	N	571	LYS
3	N	576	GLU
3	N	581	LEU
3	N	586	ARG
3	N	590	PRO
3	N	591	VAL
3	N	593	ASN
3	N	594	PRO
3	N	597	ASP
3	N	598	ARG
3	N	601	ARG
3	N	605	ASP
3	N	607	LEU
3	N	611	GLN
3	N	614	PHE
3	N	616	GLN
3	N	617	ASN
3	N	619	LEU
3	N	623	VAL
3	N	624	ASP

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Mol	Chain	Res	Type
3	N	629	SER
3	N	631	ILE
3	N	632	VAL
3	N	637	LEU
3	N	639	LEU
3	N	640	HIS
3	N	641	GLN
3	N	648	MET
3	N	651	GLU
3	N	660	LYS
3	N	666	ILE
3	N	669	ASN
3	N	671	LYS
3	N	675	ARG
3	N	676	MET
3	N	678	GLU
3	N	681	ARG
3	N	684	LYS
3	N	686	GLU
3	N	688	TRP
3	N	695	ILE
3	N	702	LEU
3	N	717	GLN
3	N	727	GLN
3	N	734	GLU
3	N	736	PHE
3	N	741	ASP
3	N	754	PHE
3	N	765	SER
3	N	770	LEU
3	N	780	LYS
3	N	781	PRO
3	N	784	ASP
3	N	787	LEU
3	N	792	ILE
3	N	794	GLN
3	N	797	LYS
3	N	799	LYS
3	N	800	LYS
3	N	805	GLU
3	N	808	THR
3	N	811	GLU

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Mol	Chain	Res	Type
3	N	824	ASN
3	N	828	LYS
3	N	829	VAL
3	N	838	ARG
3	N	839	LEU
3	N	840	LYS
3	N	842	VAL
3	N	847	ASP
3	N	858	VAL
3	N	862	ASP
3	N	863	VAL
3	N	864	VAL
3	N	865	THR
3	N	869	MET
3	N	875	THR
3	N	876	SER
3	N	879	ARG
3	N	880	ILE
3	N	888	GLU
3	N	891	GLU
3	N	892	ASP
3	N	893	GLU
3	N	901	GLN
3	N	910	SER
3	N	917	GLN
3	N	944	THR
3	N	948	THR
3	N	951	ILE
3	N	952	ASP
3	N	959	GLU
3	N	964	LEU
3	N	972	LEU
3	N	980	MET
3	N	985	ASP
3	N	988	ARG
3	N	994	GLN
3	N	999	THR
3	N	1005	GLN
3	N	1012	GLU
3	N	1019	PRO
3	N	1036	ARG
3	N	1039	CYS

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Mol	Chain	Res	Type
3	N	1042	ARG
3	N	1045	MET
3	N	1051	GLU
3	N	1052	THR
3	N	1059	SER
3	N	1062	ARG
3	N	1068	LEU
3	N	1083	ASP
3	N	1084	THR
3	N	1093	TYR
3	N	1095	THR
3	N	1096	ARG
3	N	1109	GLU
3	N	1111	ASP
3	N	1112	CYS
3	N	1116	ASN
3	N	1124	GLN
3	N	1128	VAL
3	N	1129	THR
3	N	1133	ARG
3	N	1135	ARG
3	N	1141	GLU
3	N	1144	LEU
3	N	1159	ARG
3	N	1162	GLU
3	N	1166	LEU
3	N	1173	LEU
3	N	1182	GLU
3	N	1183	ILE
3	N	1189	ARG
3	N	1190	SER
3	N	1195	GLN
3	N	1196	THR
3	N	1207	TYR
3	N	1208	ASP
3	N	1210	SER
3	N	1211	MET
3	N	1231	GLU
3	N	1235	GLN
3	N	1238	MET
3	N	1243	THR
3	N	1252	ILE

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Mol	Chain	Res	Type
3	N	1254	GLN
3	N	1258	ARG
3	N	1260	ILE
3	N	1264	GLU
3	N	1267	ARG
3	N	1274	ILE
3	N	1275	SER
3	N	1278	ASP
3	N	1280	VAL
3	N	1285	GLU
3	N	1286	THR
3	N	1295	GLU
3	N	1299	PHE
3	N	1300	SER
3	N	1301	LYS
3	N	1312	LEU
3	N	1314	LYS
3	N	1315	ASP
3	N	1337	GLU
3	N	1344	VAL
3	N	1353	GLN
3	N	1355	VAL
3	N	1359	GLN
3	N	1368	ILE
3	N	1380	GLU
3	N	1382	THR
3	N	1383	ASP
3	N	1387	SER
3	N	1388	ARG
3	N	1396	GLU
3	N	1401	GLU
3	N	1403	LEU
3	N	1404	ASN
3	N	1406	ARG
3	N	1407	LEU
3	N	1419	PRO
3	N	1424	VAL
3	N	1432	LYS
3	N	1433	SER
3	N	1439	SER
3	N	1440	PHE
3	N	1442	ASN

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Mol	Chain	Res	Type
3	N	1444	THR
3	N	1463	LYS
3	N	1464	GLU
3	N	1465	ASN
3	N	1466	VAL
3	N	1470	ARG
3	N	1478	SER
3	N	1481	VAL
3	N	1483	PHE
3	N	1485	GLN
3	N	1487	VAL
3	N	1488	ASP
3	N	1496	GLU
3	N	1501	GLU
4	O	12	MET
4	O	13	VAL
4	O	21	VAL
4	O	28	GLN
4	O	29	GLN
4	O	32	ARG
4	O	35	PHE
4	O	36	LYS
4	O	40	LEU
4	O	42	PRO
4	O	45	ARG
4	O	52	GLU
4	O	54	LEU
4	O	57	ASP
4	O	61	GLU
4	O	66	LYS
4	O	70	THR
4	O	72	ARG
4	O	77	GLU
4	O	84	ARG
4	O	85	LEU
4	O	86	GLN
5	P	75	ILE
5	P	77	THR
5	P	83	GLN
5	P	84	TYR
5	P	85	LEU
5	P	94	LEU

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Mol	Chain	Res	Type
5	P	119	ILE
5	P	125	ASP
5	P	135	ILE
5	P	136	LEU
5	P	142	ARG
5	P	145	PRO
5	P	148	LYS
5	P	150	THR
5	P	165	SER
5	P	174	LEU
5	P	187	LEU
5	P	209	PHE
5	P	221	ILE
5	P	225	GLU
5	P	245	GLN
5	P	259	ARG
5	P	269	ASN
5	P	277	GLN
5	P	285	GLU
5	P	295	MET
5	P	300	ASP
5	P	302	LYS
5	P	306	GLU
5	P	307	THR
5	P	309	LYS
5	P	318	GLU
5	P	328	PHE
5	P	331	ASP
5	P	335	ASP
5	P	336	GLU
5	P	337	HIS
5	P	347	GLN
5	P	348	SER
5	P	350	LEU
5	P	358	LEU
5	P	360	LYS
5	P	361	LEU
5	P	367	MET
5	P	370	LYS
5	P	375	LEU
5	P	396	ARG
5	P	399	GLN

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Mol	Chain	Res	Type
5	P	401	GLU
5	P	403	LYS
5	P	407	LYS
5	P	408	LEU
5	P	419	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (167) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	16	GLN
1	A	81	ASN
1	A	124	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	188	GLN
1	A	212	ASN
1	A	213	GLN
1	A	227	ASN
1	A	229	GLN
1	B	63	HIS
1	B	128	HIS
1	B	163	ASN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	117	HIS
2	C	130	ASN
2	C	204	GLN
2	C	219	GLN
2	C	343	GLN
2	C	374	ASN
2	C	393	GLN
2	C	506	ASN
2	C	538	GLN
2	C	563	ASN
2	C	575	GLN
2	C	609	ASN
2	C	633	GLN
2	C	639	GLN
2	C	663	ASN
2	C	670	GLN

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Mol	Chain	Res	Type
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	962	GLN
2	C	991	GLN
2	C	1018	GLN
2	C	1019	GLN
2	C	1107	ASN
3	D	33	ASN
3	D	151	GLN
3	D	166	GLN
3	D	549	ASN
3	D	560	GLN
3	D	593	ASN
3	D	616	GLN
3	D	617	ASN
3	D	703	ASN
3	D	724	GLN
3	D	756	GLN
3	D	768	ASN
3	D	824	ASN
3	D	855	HIS
3	D	861	GLN
3	D	917	GLN
3	D	976	GLN
3	D	1031	ASN
3	D	1033	GLN
3	D	1075	HIS
3	D	1116	ASN
3	D	1124	GLN
3	D	1172	HIS
3	D	1184	GLN
3	D	1242	HIS
3	D	1323	GLN
3	D	1334	GLN
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN

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Mol	Chain	Res	Type
3	D	1441	GLN
3	D	1465	ASN
4	E	28	GLN
4	E	33	HIS
4	E	37	ASN
4	E	86	GLN
5	F	90	GLN
5	F	161	GLN
5	F	217	ASN
5	F	218	GLN
1	K	38	ASN
1	K	63	HIS
1	K	81	ASN
1	K	139	ASN
1	K	156	HIS
1	K	163	ASN
1	K	213	GLN
1	K	227	ASN
1	K	229	GLN
1	L	16	GLN
1	L	81	ASN
1	L	91	ASN
1	L	180	GLN
1	L	188	GLN
2	M	22	GLN
2	M	41	ASN
2	M	102	HIS
2	M	117	HIS
2	M	139	GLN
2	M	179	ASN
2	M	327	HIS
2	M	343	GLN
2	M	374	ASN
2	M	393	GLN
2	M	434	HIS
2	M	538	GLN
2	M	543	ASN
2	M	545	ASN
2	M	552	HIS
2	M	563	ASN
2	M	565	GLN
2	M	609	ASN

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Mol	Chain	Res	Type
2	M	633	GLN
2	M	663	ASN
2	M	671	ASN
2	M	834	GLN
2	M	841	ASN
2	M	881	ASN
2	M	899	GLN
2	M	962	GLN
2	M	969	GLN
2	M	1006	HIS
2	M	1018	GLN
2	M	1019	GLN
2	M	1030	GLN
3	N	166	GLN
3	N	442	ASN
3	N	507	ASN
3	N	549	ASN
3	N	552	ASN
3	N	560	GLN
3	N	616	GLN
3	N	617	ASN
3	N	717	GLN
3	N	724	GLN
3	N	727	GLN
3	N	737	ASN
3	N	756	GLN
3	N	901	GLN
3	N	917	GLN
3	N	976	GLN
3	N	1031	ASN
3	N	1033	GLN
3	N	1103	HIS
3	N	1116	ASN
3	N	1334	GLN
3	N	1353	GLN
3	N	1359	GLN
3	N	1374	GLN
3	N	1465	ASN
4	O	28	GLN
4	O	29	GLN
4	O	33	HIS
4	O	59	ASN

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Mol	Chain	Res	Type
4	O	86	GLN
5	P	90	GLN
5	P	191	ASN
5	P	248	ASN
5	P	254	GLN
5	P	269	ASN
5	P	279	GLN
5	P	399	GLN

### 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 10 ligands modelled in this entry, 8 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
8	TGT	D	9001	6	27,27,27	4.00	20 (74%)	43,44,44	3.05	12 (27%)
8	TGT	N	9002	6	27,27,27	4.25	17 (62%)	43,44,44	2.88	13 (30%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical

component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
8	TGT	D	9001	6	-	1/16/57/57	0/0/2/2
8	TGT	N	9002	6	-	1/16/57/57	0/0/2/2

All (37) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	D	9001	TGT	O11-C10	9.11	1.55	1.20
8	N	9002	TGT	O11-C10	8.41	1.53	1.20
8	N	9002	TGT	C3-C2	8.40	1.64	1.52
8	N	9002	TGT	O3-C8	7.94	1.41	1.23
8	D	9001	TGT	C3-C2	7.22	1.62	1.52
8	N	9002	TGT	O1-C7	5.88	1.50	1.44
8	N	9002	TGT	C1-C2	5.60	1.63	1.52
8	N	9002	TGT	C7-C1	5.59	1.66	1.53
8	D	9001	TGT	C3-C4	5.49	1.64	1.52
8	D	9001	TGT	O1-C7	5.45	1.49	1.44
8	D	9001	TGT	C7-C1	5.29	1.65	1.53
8	N	9002	TGT	C8-N1	5.08	1.43	1.32
8	N	9002	TGT	P1-O8	4.97	1.67	1.51
8	N	9002	TGT	C6-C7	4.89	1.58	1.52
8	D	9001	TGT	P1-O8	4.88	1.67	1.51
8	D	9001	TGT	C6-C7	4.70	1.58	1.52
8	D	9001	TGT	C1-C2	4.61	1.61	1.52
8	N	9002	TGT	C3-C4	4.47	1.62	1.52
8	D	9001	TGT	O4-C9	4.34	1.37	1.22
8	N	9002	TGT	P1-O7	4.33	1.70	1.54
8	D	9001	TGT	C8-N1	4.26	1.41	1.32
8	N	9002	TGT	O4-C9	4.17	1.36	1.22
8	D	9001	TGT	O3-C8	4.04	1.32	1.23
8	D	9001	TGT	O1-C4	3.66	1.51	1.43
8	D	9001	TGT	C2-N2	3.66	1.53	1.47
8	N	9002	TGT	O1-C4	3.63	1.51	1.43
8	D	9001	TGT	P1-O7	3.60	1.67	1.54
8	D	9001	TGT	C5-C8	-3.43	1.50	1.54
8	D	9001	TGT	O10-C3	2.88	1.49	1.44
8	N	9002	TGT	C5-C4	2.88	1.59	1.54
8	D	9001	TGT	C7-C9	2.77	1.58	1.52
8	D	9001	TGT	C5-C4	2.52	1.58	1.54
8	N	9002	TGT	C2-N2	2.42	1.51	1.47
8	N	9002	TGT	C6-S1	2.39	1.85	1.81
8	N	9002	TGT	O6-C1	2.22	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	D	9001	TGT	C6-S1	2.16	1.85	1.81
8	D	9001	TGT	O5-C9	2.15	1.38	1.30

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
8	D	9001	TGT	O2-C5-C8	-10.74	107.91	110.46
8	N	9002	TGT	O2-C5-C8	-8.54	108.44	110.46
8	N	9002	TGT	C8-C5-S1	8.49	110.77	103.69
8	D	9001	TGT	C8-C5-S1	8.05	110.41	103.69
8	D	9001	TGT	O10-C10-C11	6.93	124.18	111.12
8	N	9002	TGT	C3-O10-C10	6.74	128.47	117.71
8	N	9002	TGT	O10-C10-C11	6.71	123.76	111.12
8	D	9001	TGT	C3-O10-C10	5.74	126.88	117.71
8	D	9001	TGT	C5-C8-N1	5.60	121.29	116.63
8	D	9001	TGT	O9-P1-O6	4.94	121.31	107.09
8	N	9002	TGT	O9-P1-O6	4.57	120.25	107.09
8	N	9002	TGT	O3-C8-C5	4.29	122.42	118.82
8	D	9001	TGT	O10-C3-C4	2.76	114.39	108.21
8	D	9001	TGT	O2-C5-S1	-2.72	105.97	111.19
8	N	9002	TGT	O2-C5-S1	-2.68	106.05	111.19
8	N	9002	TGT	O10-C10-O11	-2.49	117.85	122.90
8	N	9002	TGT	O6-C1-C2	2.42	111.39	107.96
8	D	9001	TGT	O11-C10-C11	-2.34	116.39	124.96
8	D	9001	TGT	O3-C8-N1	-2.33	118.16	123.20
8	D	9001	TGT	C7-O1-C4	2.31	118.58	113.22
8	N	9002	TGT	C6-C7-C1	2.20	119.28	113.38
8	N	9002	TGT	C5-C8-N1	2.15	118.42	116.63
8	N	9002	TGT	C7-O1-C4	2.14	118.18	113.22
8	D	9001	TGT	O3-C8-C5	2.06	120.55	118.82
8	N	9002	TGT	P1-O6-C1	2.02	129.12	120.05

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	N	9002	TGT	P1-O6-C1-C7
8	D	9001	TGT	P1-O6-C1-C7

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	229/315 (72%)	2.24	75 (32%) 1 1	18, 47, 72, 88	0
1	B	229/315 (72%)	3.05	85 (37%) 1 0	34, 66, 82, 88	0
1	K	229/315 (72%)	1.58	78 (34%) 1 0	21, 43, 70, 92	0
1	L	229/315 (72%)	2.23	74 (32%) 1 1	34, 62, 82, 95	0
2	C	1119/1119 (100%)	3.35	446 (39%) 1 0	15, 58, 81, 94	0
2	M	1119/1119 (100%)	3.49	464 (41%) 1 0	15, 55, 81, 97	0
3	D	1392/1524 (91%)	2.25	422 (30%) 1 1	15, 49, 82, 97	0
3	N	1392/1524 (91%)	2.28	431 (30%) 1 1	16, 48, 83, 105	0
4	E	95/99 (95%)	1.59	24 (25%) 1 1	30, 59, 82, 103	0
4	O	95/99 (95%)	2.04	26 (27%) 1 1	22, 59, 77, 87	0
5	F	345/423 (81%)	4.56	155 (44%) 1 0	38, 63, 83, 97	0
5	P	345/423 (81%)	4.65	163 (47%) 1 0	41, 64, 85, 92	0
All	All	6818/7590 (89%)	2.87	2443 (35%) 1 0	15, 54, 82, 105	0

All (2443) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	N	1248	GLY	61.7
3	N	532	GLY	57.0
3	N	533	GLY	56.2
3	D	854	ALA	55.7
3	D	1248	GLY	55.5
3	D	1247	ALA	54.6
3	N	1246	VAL	53.6
2	C	171	TRP	48.4
5	F	359	SER	48.1
5	P	183	ALA	47.9
3	D	852	ALA	47.2

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Mol	Chain	Res	Type	RSRZ
3	D	853	VAL	46.6
3	N	1247	ALA	46.1
2	C	153	ALA	45.7
5	F	91	VAL	45.2
3	N	530	VAL	45.0
2	C	763	GLY	44.9
2	C	172	ILE	44.6
3	N	407	VAL	44.5
5	P	415	THR	43.4
2	M	186	VAL	43.0
2	M	169	GLY	42.7
3	N	531	ASP	41.1
3	N	534	ARG	40.5
3	D	439	LEU	40.4
2	C	169	GLY	40.2
2	M	179	ASN	39.5
2	M	172	ILE	39.4
2	C	170	PRO	39.2
3	D	851	LEU	38.2
5	F	386	VAL	38.0
1	B	150	TYR	37.3
2	M	171	TRP	37.3
5	P	186	HIS	36.9
3	D	855	HIS	36.5
5	P	359	SER	36.4
1	A	1	MET	36.3
2	C	152	PRO	36.2
3	D	856	GLY	36.0
2	C	1001	VAL	36.0
2	M	1	MET	36.0
3	D	1246	VAL	35.6
5	P	182	ALA	35.4
3	D	850	LEU	34.9
5	P	180	GLY	34.8
3	N	1249	ALA	34.6
2	C	764	GLU	34.5
2	C	765	SER	34.0
2	M	375	SER	33.9
5	F	182	ALA	33.8
3	D	857	ILE	33.4
2	C	375	SER	33.3
2	M	377	PRO	32.9

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Mol	Chain	Res	Type	RSRZ
3	D	531	ASP	32.9
3	D	849	ALA	32.8
2	M	180	GLY	32.7
2	C	377	PRO	32.2
2	C	376	ARG	31.9
5	P	89	GLY	31.4
2	M	17	PRO	31.4
1	B	155	LYS	31.4
5	F	102	LEU	30.9
1	B	151	VAL	29.9
1	B	158	ILE	29.4
3	D	530	VAL	29.4
2	C	164	PRO	29.2
2	M	114	PHE	29.0
2	M	18	LEU	28.9
5	P	91	VAL	28.5
5	P	360	LYS	28.4
5	F	90	GLN	28.2
2	M	181	VAL	28.2
2	C	114	PHE	28.2
2	M	1001	VAL	28.1
2	C	380	ALA	27.9
2	M	166	PRO	27.8
2	M	152	PRO	27.4
2	M	763	GLY	27.1
5	F	138	SER	27.0
2	M	153	ALA	26.8
5	F	139	ALA	26.8
1	A	6	LEU	26.7
2	M	170	PRO	26.5
2	M	187	ASN	26.5
2	C	1024	LYS	26.4
2	M	764	GLU	26.4
1	B	157	GLY	26.0
5	F	186	HIS	25.9
5	P	90	GLN	25.9
2	M	223	ASP	25.8
5	P	339	PRO	25.7
2	C	495	THR	25.5
5	F	105	LYS	25.5
2	C	1023	GLY	25.4
5	F	415	THR	25.3

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Mol	Chain	Res	Type	RSRZ
2	M	522	VAL	25.3
5	F	89	GLY	25.0
2	M	1000	MET	24.8
5	P	92	PRO	24.8
5	F	393	THR	24.7
2	M	376	ARG	24.5
2	C	116	GLY	24.5
2	C	18	LEU	24.4
2	C	517	ARG	24.4
3	N	845	ASN	24.4
3	N	854	ALA	24.1
5	P	102	LEU	24.1
2	M	164	PRO	23.9
3	D	696	HIS	23.7
1	B	152	PRO	23.6
2	C	522	VAL	23.6
2	M	265	ARG	23.6
2	C	518	LYS	23.5
5	F	183	ALA	23.4
2	C	519	GLY	23.3
3	N	408	GLU	23.2
2	C	180	GLY	22.6
5	F	339	PRO	22.5
5	F	180	GLY	22.5
2	M	347	GLY	22.5
3	D	1249	ALA	22.4
2	M	191	PHE	22.3
5	F	93	LEU	22.2
5	F	179	GLU	22.1
3	D	858	VAL	22.1
5	P	179	GLU	22.0
2	C	179	ASN	21.9
1	L	118	ALA	21.8
2	C	186	VAL	21.7
5	F	92	PRO	21.7
3	D	188	GLY	21.6
2	C	796	GLU	21.6
2	C	19	THR	21.3
3	N	851	LEU	21.3
2	M	115	LEU	21.2
3	N	1245	GLY	21.1
3	D	532	GLY	21.1

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Mol	Chain	Res	Type	RSRZ
2	M	374	ASN	21.0
1	B	118	ALA	21.0
2	M	182	VAL	20.9
3	N	944	THR	20.8
3	N	406	ASP	20.7
3	D	697	GLY	20.7
2	C	524	VAL	20.6
5	F	137	GLY	20.5
2	M	19	THR	20.5
5	P	342	VAL	20.5
2	M	267	TYR	20.5
5	P	135	ILE	20.4
1	B	156	HIS	20.3
2	C	155	PRO	20.2
2	M	1024	LYS	20.2
2	M	219	GLN	20.2
2	C	493	ARG	20.1
2	C	21	ILE	20.1
2	M	266	ARG	20.0
1	B	159	LYS	20.0
3	D	533	GLY	20.0
5	P	105	LYS	20.0
2	C	525	SER	19.9
2	C	762	LYS	19.8
2	C	379	GLU	19.8
5	F	391	GLY	19.7
2	M	590	ASP	19.6
3	N	870	GLY	19.6
2	C	20	GLU	19.5
2	C	15	LEU	19.3
2	C	223	ASP	19.3
5	P	340	SER	19.2
2	C	1000	MET	19.0
5	F	387	GLY	18.9
2	C	556	ASN	18.8
2	M	520	GLU	18.7
2	M	348	LEU	18.6
2	C	17	PRO	18.6
3	D	441	ARG	18.5
3	D	438	ASP	18.5
2	M	165	LEU	18.4
5	P	322	GLY	18.3

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Mol	Chain	Res	Type	RSRZ
2	C	1	MET	18.3
3	D	1316	GLY	18.3
3	N	853	VAL	18.3
3	N	1340	GLY	18.2
2	M	16	PRO	18.2
2	C	173	ASP	18.0
2	C	586	ARG	18.0
1	A	118	ALA	18.0
1	A	2	LEU	18.0
2	M	354	GLY	17.9
2	C	528	GLU	17.9
2	M	559	LEU	17.9
2	C	219	GLN	17.9
2	M	523	ILE	17.8
1	A	155	LYS	17.8
1	K	155	LYS	17.7
2	M	351	LEU	17.7
2	M	555	ALA	17.7
3	N	1285	GLU	17.7
2	M	47	ALA	17.7
2	M	517	ARG	17.7
5	P	93	LEU	17.7
5	P	394	ARG	17.6
3	N	588	GLY	17.6
2	C	16	PRO	17.6
2	C	717	LEU	17.6
3	N	696	HIS	17.5
5	P	411	HIS	17.5
2	C	220	GLY	17.4
3	N	945	SER	17.4
3	D	1129	THR	17.3
3	D	534	ARG	17.3
3	D	440	VAL	17.2
5	P	386	VAL	17.2
5	P	343	ASP	17.2
2	C	378	LEU	17.1
2	C	523	ILE	17.1
1	A	154	GLU	17.1
2	C	264	PRO	17.0
2	M	173	ASP	17.0
5	P	419	ARG	17.0
4	O	3	GLU	16.9

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Mol	Chain	Res	Type	RSRZ
1	L	96	THR	16.9
3	D	859	ASP	16.8
3	D	1245	GLY	16.8
2	C	795	GLY	16.8
2	M	586	ARG	16.8
2	M	589	ARG	16.7
3	N	852	ALA	16.7
5	F	360	LYS	16.7
3	N	529	GLN	16.6
2	M	23	VAL	16.6
5	P	119	ILE	16.5
3	D	1360	GLY	16.5
4	O	44	GLU	16.4
2	C	520	GLU	16.4
4	E	3	GLU	16.4
4	O	2	ALA	16.4
5	F	135	ILE	16.3
3	D	505	SER	16.3
2	M	765	SER	16.2
2	M	378	LEU	16.2
3	N	122	GLU	16.1
5	F	283	GLY	16.1
2	M	344	PHE	16.1
3	N	867	ARG	16.0
3	D	845	ASN	15.9
2	C	984	GLU	15.9
2	M	1023	GLY	15.9
5	P	185	GLN	15.9
2	M	556	ASN	15.8
2	C	983	ILE	15.6
3	D	944	THR	15.6
2	C	381	ALA	15.6
2	M	15	LEU	15.5
2	M	817	PRO	15.4
3	N	1400	VAL	15.3
1	A	5	LYS	15.2
5	F	185	GLN	15.2
3	D	847	ASP	15.2
2	C	166	PRO	15.2
2	M	983	ILE	15.2
2	M	558	ALA	15.1
5	P	245	GLN	15.1

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Mol	Chain	Res	Type	RSRZ
2	M	380	ALA	15.0
3	N	1341	PRO	15.0
2	M	48	PHE	14.9
2	M	345	ARG	14.9
3	D	379	ALA	14.9
2	M	984	GLU	14.8
3	D	407	VAL	14.8
2	C	222	MET	14.7
3	N	535	PHE	14.7
2	M	715	THR	14.7
4	O	4	PRO	14.6
2	C	115	LEU	14.6
3	D	848	GLU	14.6
3	D	529	GLN	14.5
2	M	512	ARG	14.4
3	N	379	ALA	14.4
2	C	162	ILE	14.3
1	L	94	LEU	14.3
2	M	350	ARG	14.2
3	N	1360	GLY	14.2
3	D	1089	ALA	14.1
2	C	182	VAL	14.1
2	M	20	GLU	14.1
1	B	162	ILE	14.1
2	M	320	HIS	14.1
5	F	390	PHE	14.0
2	M	185	LYS	14.0
2	M	627	ARG	14.0
3	N	844	ALA	14.0
5	F	140	ARG	14.0
2	C	267	TYR	14.0
2	M	557	ARG	13.9
3	D	717	GLN	13.9
2	C	181	VAL	13.9
2	M	795	GLY	13.9
3	N	188	GLY	13.8
3	N	850	LEU	13.8
5	P	416	ARG	13.8
5	F	144	ILE	13.7
1	B	153	ALA	13.7
2	M	717	LEU	13.7
5	P	344	ALA	13.7

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Mol	Chain	Res	Type	RSRZ
5	P	341	PRO	13.7
4	O	47	LYS	13.7
2	C	590	ASP	13.6
1	B	190	THR	13.6
2	M	524	VAL	13.6
5	F	423	ASP	13.6
4	E	59	ASN	13.5
5	F	336	GLU	13.5
5	P	88	ILE	13.5
5	F	141	VAL	13.5
1	A	153	ALA	13.4
3	D	640	HIS	13.4
5	P	345	ALA	13.3
2	C	553	ASP	13.3
3	N	640	HIS	13.3
2	C	224	GLU	13.3
2	C	554	ASP	13.3
2	C	946	ARG	13.3
2	M	46	ALA	13.3
5	F	176	ILE	13.2
1	B	188	GLN	13.2
3	D	223	LEU	13.2
3	D	1314	LYS	13.2
5	F	119	ILE	13.2
2	C	716	LYS	13.2
1	L	3	ASP	13.1
2	C	23	VAL	13.1
5	P	95	THR	13.1
2	M	1064	ASN	13.1
2	M	716	LYS	13.1
5	F	343	ASP	13.1
3	N	1343	ALA	13.1
3	N	717	GLN	13.1
3	N	409	VAL	13.1
2	M	349	ALA	13.1
3	D	1341	PRO	13.0
3	N	846	PRO	13.0
3	N	697	GLY	13.0
2	C	627	ARG	12.9
3	D	137	PRO	12.9
1	K	6	LEU	12.9
2	C	555	ALA	12.9

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Mol	Chain	Res	Type	RSRZ
5	F	338	LEU	12.9
5	F	394	ARG	12.9
4	E	44	GLU	12.9
2	M	444	PRO	12.9
1	L	189	ARG	12.8
2	C	1025	ALA	12.8
4	E	49	GLN	12.8
2	M	163	ILE	12.8
2	M	876	VAL	12.8
3	D	843	PHE	12.7
2	M	184	MET	12.7
2	M	1065	ALA	12.7
5	P	414	ARG	12.7
3	N	1287	GLU	12.6
3	N	947	ILE	12.6
2	M	518	LYS	12.6
5	P	94	LEU	12.6
3	D	1340	GLY	12.5
5	P	421	PHE	12.5
3	D	189	GLN	12.4
5	F	136	LEU	12.4
5	P	312	GLN	12.4
3	N	189	GLN	12.4
2	C	163	ILE	12.4
3	N	121	THR	12.3
1	B	4	SER	12.3
5	P	176	ILE	12.3
3	D	1092	GLY	12.2
3	N	858	VAL	12.2
2	C	793	PRO	12.2
2	C	559	LEU	12.2
3	D	1419	PRO	12.2
3	D	364	GLY	12.1
2	M	50	GLU	12.1
2	C	263	ASP	12.1
2	C	167	LYS	12.1
3	N	405	ASP	12.0
2	M	796	GLU	12.0
1	K	1	MET	12.0
3	N	96	ALA	12.0
2	M	192	PRO	12.0
3	D	808	THR	11.9

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Mol	Chain	Res	Type	RSRZ
5	P	338	LEU	11.9
2	M	1066	ALA	11.9
5	P	189	GLU	11.9
2	C	1113	GLU	11.9
4	E	2	ALA	11.8
1	K	154	GLU	11.8
5	F	98	GLU	11.8
2	C	589	ARG	11.8
3	N	586	ARG	11.8
3	N	849	ALA	11.8
5	F	421	PHE	11.7
3	D	1400	VAL	11.7
5	F	355	GLU	11.7
2	C	165	LEU	11.7
2	M	178	PRO	11.7
2	M	379	GLU	11.6
5	P	355	GLU	11.6
2	M	21	ILE	11.6
1	A	216	GLU	11.6
2	C	154	ARG	11.6
3	D	1088	THR	11.5
3	N	871	LYS	11.5
2	M	729	LEU	11.5
5	F	94	LEU	11.5
2	C	558	ALA	11.5
5	P	170	HIS	11.5
3	N	638	LYS	11.4
5	P	145	PRO	11.4
2	M	155	PRO	11.4
5	P	173	TYR	11.4
2	M	510	ALA	11.4
2	M	14	PRO	11.3
3	N	163	TYR	11.3
5	F	74	LYS	11.3
1	A	219	ARG	11.3
1	A	4	SER	11.3
3	N	1227	GLN	11.2
5	F	340	SER	11.2
3	D	1342	GLU	11.2
3	D	548	ILE	11.2
3	N	855	HIS	11.2
5	P	136	LEU	11.2

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Mol	Chain	Res	Type	RSRZ
3	D	641	GLN	11.2
5	F	285	GLU	11.2
1	L	119	ASP	11.1
2	M	234	ALA	11.1
2	C	492	ASP	11.1
1	B	219	ARG	11.1
2	C	168	ARG	11.1
3	N	93	ILE	11.1
1	L	190	THR	11.1
2	C	123	GLU	11.0
1	A	152	PRO	11.0
2	C	1004	LYS	11.0
1	B	189	ARG	11.0
1	B	149	GLY	11.0
2	M	782	ALA	10.9
3	N	801	GLY	10.9
3	N	943	THR	10.9
3	D	1317	ASP	10.9
3	N	472	ALA	10.9
3	N	519	VAL	10.9
2	C	195	LEU	10.9
2	C	191	PHE	10.9
2	C	187	ASN	10.9
2	C	265	ARG	10.9
2	C	185	LYS	10.9
2	M	878	SER	10.9
5	P	413	SER	10.8
3	N	242	LEU	10.8
2	M	162	ILE	10.8
3	D	588	GLY	10.8
2	C	1065	ALA	10.8
2	M	227	PHE	10.8
3	D	519	VAL	10.7
2	C	494	TYR	10.7
3	N	505	SER	10.7
2	C	14	PRO	10.7
3	N	857	ILE	10.7
2	M	1038	TRP	10.7
5	P	323	ASP	10.6
3	N	948	THR	10.6
2	M	1002	GLU	10.6
2	M	1077	PRO	10.6

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Mol	Chain	Res	Type	RSRZ
2	M	1114	GLY	10.6
3	N	856	GLY	10.6
2	C	794	PRO	10.6
2	M	554	ASP	10.6
2	C	797	GLY	10.6
3	D	122	GLU	10.6
2	M	116	GLY	10.5
3	D	67	ARG	10.5
2	C	781	LYS	10.5
5	F	342	VAL	10.5
5	P	74	LYS	10.5
3	D	846	PRO	10.5
3	D	844	ALA	10.5
3	D	400	VAL	10.5
5	F	121	GLY	10.5
3	D	504	ASP	10.5
5	F	181	GLU	10.5
3	N	773	ALA	10.5
3	N	425	GLY	10.4
5	F	416	ARG	10.4
3	D	945	SER	10.4
3	N	1286	THR	10.4
5	P	139	ALA	10.4
2	M	194	VAL	10.4
2	M	43	GLY	10.4
3	N	585	GLY	10.4
1	L	188	GLN	10.3
2	M	353	ARG	10.3
2	C	1112	PHE	10.3
1	L	80	LEU	10.3
3	N	95	LEU	10.3
1	A	116	PRO	10.3
5	P	393	THR	10.3
1	L	150	TYR	10.3
3	D	547	LEU	10.2
3	N	1223	ILE	10.2
5	F	346	THR	10.2
3	N	1337	GLU	10.2
3	N	475	LYS	10.2
1	B	126	ASP	10.2
2	C	192	PRO	10.2
2	M	1062	GLY	10.2

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Mol	Chain	Res	Type	RSRZ
3	D	1158	VAL	10.2
1	L	2	LEU	10.1
5	P	177	ALA	10.1
5	P	98	GLU	10.1
3	N	859	ASP	10.1
2	C	624	PRO	10.1
5	P	138	SER	10.1
2	C	698	ASP	10.0
1	B	116	PRO	10.0
1	K	152	PRO	10.0
2	C	266	ARG	9.9
2	M	51	THR	9.9
5	F	419	ARG	9.9
2	M	238	LEU	9.9
3	N	380	GLU	9.9
5	P	309	LYS	9.9
2	M	445	GLU	9.9
1	B	191	ASP	9.9
3	D	860	LEU	9.9
3	D	832	ARG	9.9
3	N	847	ASP	9.9
2	C	513	VAL	9.8
2	C	560	MET	9.8
5	F	245	GLN	9.8
2	M	381	ALA	9.8
2	M	231	PRO	9.8
4	O	49	GLN	9.8
3	D	424	GLY	9.8
2	C	715	THR	9.8
2	M	982	PRO	9.8
2	C	196	LEU	9.8
1	A	157	GLY	9.8
3	D	756	GLN	9.7
5	P	348	SER	9.7
3	D	123	LEU	9.7
3	D	380	GLU	9.7
5	F	145	PRO	9.7
5	F	344	ALA	9.7
5	P	358	LEU	9.7
2	C	982	PRO	9.7
2	M	880	MET	9.7
2	C	258	TYR	9.7

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Mol	Chain	Res	Type	RSRZ
2	M	1113	GLU	9.6
2	C	194	VAL	9.6
3	N	1225	ALA	9.6
3	N	1089	ALA	9.6
5	P	144	ILE	9.6
2	C	515	ALA	9.6
2	C	347	GLY	9.6
3	N	1047	LYS	9.5
3	N	848	GLU	9.5
5	F	177	ALA	9.5
3	N	1362	LYS	9.5
2	M	233	GLU	9.5
3	D	695	ILE	9.4
2	M	1067	TYR	9.4
3	N	800	LYS	9.4
2	M	220	GLY	9.4
2	C	782	ALA	9.3
3	D	403	PHE	9.3
2	M	525	SER	9.3
3	N	1358	ALA	9.3
5	P	356	LYS	9.3
2	C	46	ALA	9.2
2	C	234	ALA	9.2
2	M	946	ARG	9.2
2	M	794	PRO	9.2
2	C	557	ARG	9.2
5	P	120	THR	9.2
3	N	1092	GLY	9.2
3	D	405	ASP	9.1
3	N	1342	GLU	9.1
3	D	401	TYR	9.1
3	D	442	ASN	9.1
2	M	49	ARG	9.1
3	N	1336	LEU	9.1
1	L	84	GLU	9.1
2	M	228	ALA	9.1
2	M	513	VAL	9.1
2	M	881	ASN	9.1
3	D	437	VAL	9.1
2	C	1114	GLY	9.1
5	P	190	ALA	9.0
2	M	447	ALA	9.0

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Mol	Chain	Res	Type	RSRZ
1	A	3	ASP	9.0
3	D	121	THR	9.0
3	D	753	SER	9.0
1	A	16	GLN	9.0
1	L	93	SER	9.0
2	C	183	SER	9.0
3	N	1224	VAL	9.0
3	D	471	GLU	8.9
1	L	5	LYS	8.9
1	B	170	VAL	8.9
4	O	43	GLU	8.9
3	N	695	ILE	8.9
1	L	4	SER	8.9
2	M	446	GLY	8.9
3	N	1316	GLY	8.9
3	N	1070	TYR	8.9
3	N	1129	THR	8.9
2	M	560	MET	8.9
3	N	27	GLU	8.9
1	K	150	TYR	8.8
2	C	350	ARG	8.8
3	N	1099	VAL	8.8
5	P	103	ALA	8.8
3	N	552	ASN	8.8
2	M	183	SER	8.8
3	N	1419	PRO	8.7
2	C	221	LEU	8.7
1	L	95	GLN	8.7
3	D	1049	SER	8.7
5	P	241	TRP	8.7
2	C	251	ASP	8.7
3	N	1049	SER	8.6
2	M	268	ASP	8.6
2	C	766	GLU	8.6
2	M	224	GLU	8.6
3	D	1337	GLU	8.6
2	C	209	ARG	8.6
5	F	392	VAL	8.6
2	C	729	LEU	8.6
5	P	346	THR	8.6
3	N	1250	ALA	8.5
3	N	843	PHE	8.5

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Mol	Chain	Res	Type	RSRZ
2	M	873	PRO	8.5
2	C	235	LEU	8.5
2	C	942	GLU	8.5
5	F	323	ASP	8.5
3	N	1361	VAL	8.5
2	C	881	ASN	8.5
3	N	587	ARG	8.5
2	M	519	GLY	8.5
2	M	196	LEU	8.5
3	N	94	GLU	8.5
5	F	337	HIS	8.5
3	N	979	GLU	8.5
5	F	414	ARG	8.5
3	D	699	VAL	8.5
3	N	504	ASP	8.5
2	M	44	ILE	8.4
3	N	1091	SER	8.4
2	C	383	ARG	8.4
1	L	77	GLU	8.4
3	N	1158	VAL	8.4
5	P	101	GLU	8.4
1	L	184	THR	8.4
2	M	195	LEU	8.4
1	L	158	ILE	8.3
5	P	141	VAL	8.3
3	N	595	GLY	8.3
5	F	88	ILE	8.3
1	L	116	PRO	8.3
2	M	1004	LYS	8.3
5	F	120	THR	8.3
2	C	521	PRO	8.3
2	C	542	VAL	8.3
5	P	187	LEU	8.3
2	M	95	TYR	8.3
3	N	946	GLY	8.3
2	C	981	GLU	8.2
2	C	697	ARG	8.2
2	C	233	GLU	8.2
5	F	413	SER	8.2
1	B	184	THR	8.2
2	C	1061	GLU	8.2
3	N	972	LEU	8.2

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Mol	Chain	Res	Type	RSRZ
2	M	879	ARG	8.2
3	D	773	ALA	8.2
2	M	319	GLY	8.2
2	M	1042	ALA	8.2
3	N	1138	ALA	8.2
1	B	117	VAL	8.2
2	C	1115	LEU	8.1
2	C	270	GLY	8.1
2	M	713	ARG	8.1
3	D	946	GLY	8.1
2	M	226	VAL	8.1
5	F	86	HIS	8.1
3	D	1358	ALA	8.1
5	P	104	ARG	8.1
1	L	162	ILE	8.0
1	A	20	TYR	8.0
2	M	816	LYS	8.0
2	C	880	MET	8.0
3	N	97	THR	8.0
2	M	931	GLY	8.0
3	D	581	LEU	8.0
1	K	153	ALA	8.0
3	D	28	LYS	8.0
1	L	117	VAL	7.9
3	N	471	GLU	7.9
3	D	416	ALA	7.9
3	N	1307	LYS	7.9
5	F	241	TRP	7.9
5	P	336	GLU	7.9
3	D	126	VAL	7.9
2	M	448	ASN	7.9
5	F	133	ALA	7.9
3	D	760	ARG	7.9
2	M	877	PRO	7.8
2	M	230	ARG	7.8
2	M	553	ASP	7.8
3	D	867	ARG	7.8
2	M	1025	ALA	7.8
3	N	872	ARG	7.8
5	F	281	GLU	7.8
2	C	441	VAL	7.8
2	C	817	PRO	7.7

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Mol	Chain	Res	Type	RSRZ
3	N	1363	LEU	7.7
3	N	1308	GLU	7.7
4	O	42	PRO	7.7
3	D	1031	ASN	7.7
2	M	188	LYS	7.7
3	N	1344	VAL	7.7
2	C	232	GLU	7.7
5	F	173	TYR	7.7
3	D	1336	LEU	7.7
5	P	315	VAL	7.7
2	M	168	ARG	7.7
2	C	445	GLU	7.7
3	N	551	ASN	7.7
3	N	563	PRO	7.7
2	M	784	ASP	7.6
3	D	757	ALA	7.6
3	N	123	LEU	7.6
3	D	551	ASN	7.6
2	M	263	ASP	7.6
2	C	541	SER	7.6
3	N	1317	ASP	7.6
1	L	191	ASP	7.6
2	M	232	GLU	7.5
3	D	764	LEU	7.5
2	M	542	VAL	7.5
3	D	772	PRO	7.5
2	M	167	LYS	7.5
3	N	26	VAL	7.5
3	D	698	LYS	7.5
3	N	1019	PRO	7.5
3	D	582	LEU	7.5
3	D	1362	LYS	7.5
3	D	1210	SER	7.4
1	K	118	ALA	7.4
2	M	818	GLY	7.4
4	E	48	MET	7.4
5	P	325	LYS	7.4
3	D	443	VAL	7.4
3	N	719	VAL	7.4
2	C	47	ALA	7.4
2	M	781	LYS	7.4
2	M	1061	GLU	7.4

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Mol	Chain	Res	Type	RSRZ
3	N	424	GLY	7.4
2	M	1115	LEU	7.4
3	N	517	VAL	7.3
2	C	268	ASP	7.3
5	F	170	HIS	7.3
2	C	943	VAL	7.3
1	A	156	HIS	7.3
2	C	1116	ALA	7.3
2	M	2	GLU	7.3
5	F	187	LEU	7.3
5	F	345	ALA	7.3
1	L	185	ARG	7.3
3	D	95	LEU	7.3
2	C	374	ASN	7.3
3	D	719	VAL	7.3
3	N	1440	PHE	7.3
3	D	1361	VAL	7.2
2	M	697	ARG	7.2
1	B	169	ALA	7.2
2	M	1117	SER	7.2
5	F	175	HIS	7.2
2	M	521	PRO	7.2
5	P	75	ILE	7.2
5	F	95	THR	7.2
2	C	1077	PRO	7.2
5	F	284	ARG	7.2
5	P	347	GLN	7.2
3	D	615	ARG	7.1
3	N	125	GLN	7.1
3	N	1418	LYS	7.1
2	M	222	MET	7.1
2	C	767	PRO	7.1
3	D	26	VAL	7.1
3	D	771	SER	7.1
3	N	969	ARG	7.1
2	M	3	ILE	7.1
2	M	237	ARG	7.1
3	N	869	MET	7.1
2	C	544	THR	7.1
3	N	548	ILE	7.1
4	O	45	ARG	7.0
2	M	714	ASP	7.0

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Mol	Chain	Res	Type	RSRZ
3	N	583	ASP	7.0
3	D	1315	ASP	7.0
2	M	454	SER	7.0
4	E	43	GLU	7.0
4	O	48	MET	6.9
2	C	1002	GLU	6.9
2	M	42	VAL	6.9
1	L	159	LYS	6.9
2	M	624	PRO	6.9
3	D	1420	LEU	6.9
5	P	165	SER	6.9
2	C	24	GLU	6.9
3	N	1297	GLU	6.9
1	L	170	VAL	6.9
2	M	341	THR	6.9
2	M	236	ILE	6.9
1	B	125	PRO	6.9
3	N	169	TYR	6.9
3	N	1048	PRO	6.9
5	P	184	ARG	6.9
3	D	93	ILE	6.9
3	D	138	LYS	6.8
5	P	281	GLU	6.8
5	P	412	GLU	6.8
4	E	54	LEU	6.8
1	L	151	VAL	6.8
2	C	1080	SER	6.8
2	M	981	GLU	6.8
3	N	84	ILE	6.8
3	D	552	ASN	6.8
3	N	1073	SER	6.8
1	K	216	GLU	6.8
2	M	1080	SER	6.8
2	C	199	VAL	6.7
5	F	262	VAL	6.7
2	C	113	VAL	6.7
4	E	62	THR	6.7
2	M	766	GLU	6.7
5	F	101	GLU	6.7
2	C	561	GLY	6.7
2	C	178	PRO	6.7
2	M	528	GLU	6.7

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Mol	Chain	Res	Type	RSRZ
2	C	25	SER	6.7
3	N	24	GLY	6.7
3	N	126	VAL	6.7
3	N	441	ARG	6.7
5	F	109	GLY	6.7
4	E	47	LYS	6.7
1	B	119	ASP	6.7
5	P	167	PRO	6.7
2	M	762	LYS	6.7
2	M	246	ASP	6.6
3	N	1439	SER	6.6
1	A	126	ASP	6.6
1	B	220	GLU	6.6
5	F	363	GLU	6.6
5	P	321	ILE	6.6
3	N	581	LEU	6.6
3	N	1088	THR	6.6
2	M	609	ASN	6.6
1	L	192	LEU	6.6
3	D	595	GLY	6.6
3	N	1339	LYS	6.6
3	D	1051	GLU	6.6
5	F	279	GLN	6.6
5	P	140	ARG	6.6
1	B	223	THR	6.6
5	P	87	GLU	6.5
1	B	96	THR	6.5
3	D	1441	GLN	6.5
2	C	124	ASP	6.5
3	D	1404	ASN	6.5
3	N	365	ASP	6.5
3	N	1051	GLU	6.5
3	D	119	SER	6.5
2	C	447	ALA	6.5
1	A	151	VAL	6.5
2	M	573	ARG	6.5
3	N	941	PHE	6.5
3	D	1343	ALA	6.5
2	M	943	VAL	6.5
2	C	144	PRO	6.4
3	D	1250	ALA	6.4
2	C	1075	ASP	6.4

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Mol	Chain	Res	Type	RSRZ
5	P	423	ASP	6.4
1	A	217	ILE	6.4
3	D	1091	SER	6.4
2	M	79	PRO	6.4
3	N	469	ASP	6.4
2	C	625	LEU	6.3
5	F	190	ALA	6.3
3	D	761	ILE	6.3
2	M	698	ASP	6.3
2	M	346	VAL	6.3
3	N	516	ALA	6.3
2	C	43	GLY	6.3
2	M	1027	PHE	6.3
3	N	580	ALA	6.3
3	D	1050	GLY	6.3
2	M	225	SER	6.2
2	C	341	THR	6.2
3	D	27	GLU	6.2
3	D	759	ALA	6.2
2	C	1111	ILE	6.2
1	B	186	LEU	6.2
2	M	94	LEU	6.2
2	C	1064	ASN	6.2
2	M	677	MET	6.2
2	C	882	LEU	6.2
1	K	220	GLU	6.2
4	O	46	PRO	6.2
1	B	6	LEU	6.2
1	K	67	THR	6.2
2	M	1069	ALA	6.2
1	L	90	LEU	6.1
5	F	106	VAL	6.1
1	B	168	ASP	6.1
1	A	226	SER	6.1
5	F	356	LYS	6.1
3	D	108	VAL	6.1
1	A	223	THR	6.1
5	F	184	ARG	6.1
1	A	220	GLU	6.1
2	C	512	ARG	6.1
3	N	1050	GLY	6.1
2	C	1092	LEU	6.1

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Mol	Chain	Res	Type	RSRZ
2	M	318	PRO	6.1
5	P	283	GLY	6.1
3	D	941	PHE	6.1
3	N	641	GLN	6.1
1	L	91	ASN	6.0
5	P	147	LEU	6.0
5	P	137	GLY	6.0
1	A	214	ALA	6.0
3	D	578	VAL	6.0
1	B	183	ASP	6.0
1	L	155	LYS	6.0
2	M	603	VAL	6.0
3	N	440	VAL	6.0
2	M	1026	GLN	6.0
3	D	469	ASP	6.0
2	M	113	VAL	6.0
4	E	61	GLU	6.0
5	F	263	HIS	6.0
2	C	208	ALA	6.0
5	P	86	HIS	6.0
2	C	94	LEU	6.0
3	N	381	ALA	5.9
3	N	119	SER	5.9
1	L	149	GLY	5.9
3	D	544	TYR	5.9
3	D	877	PRO	5.9
2	M	443	THR	5.9
1	B	112	ARG	5.9
2	C	345	ARG	5.9
2	M	244	PRO	5.9
2	C	829	GLN	5.9
2	C	184	MET	5.9
2	C	1038	TRP	5.9
5	F	422	LEU	5.9
3	N	92	HIS	5.9
2	C	878	SER	5.9
3	N	772	PRO	5.9
5	P	181	GLU	5.9
2	C	422	ARG	5.9
1	L	156	HIS	5.9
2	M	151	ASP	5.9
2	C	876	VAL	5.9

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Mol	Chain	Res	Type	RSRZ
2	C	145	GLY	5.9
2	M	352	ALA	5.9
3	D	594	PRO	5.8
2	C	344	PHE	5.8
3	D	1440	PHE	5.8
3	N	1081	GLY	5.8
1	L	183	ASP	5.8
1	L	169	ALA	5.8
5	P	175	HIS	5.8
2	C	798	GLY	5.8
3	N	791	TYR	5.8
2	M	193	LEU	5.8
3	D	979	GLU	5.8
3	D	1439	SER	5.8
3	N	594	PRO	5.8
2	C	771	GLU	5.8
3	N	25	GLU	5.8
2	C	457	ALA	5.8
3	D	870	GLY	5.8
2	M	221	LEU	5.8
2	M	1118	LYS	5.8
3	D	638	LYS	5.8
3	N	243	ALA	5.8
1	L	152	PRO	5.7
5	F	108	GLU	5.7
3	N	22	SER	5.7
5	P	249	ARG	5.7
5	P	118	GLU	5.7
3	D	408	GLU	5.7
3	N	137	PRO	5.7
3	D	943	THR	5.7
1	B	154	GLU	5.7
2	C	885	ILE	5.7
3	D	1161	GLU	5.7
1	K	80	LEU	5.7
2	M	1112	PHE	5.7
3	D	365	ASP	5.7
3	D	22	SER	5.7
5	F	335	ASP	5.6
1	B	148	VAL	5.6
3	N	615	ARG	5.6
5	F	75	ILE	5.6

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Mol	Chain	Res	Type	RSRZ
3	D	1130	ARG	5.6
3	N	1096	ARG	5.6
2	M	441	VAL	5.6
5	P	361	LEU	5.6
2	C	151	ASP	5.6
2	M	797	GLY	5.6
1	B	222	LEU	5.6
3	D	475	LYS	5.6
3	N	1315	ASP	5.6
5	P	357	ALA	5.5
2	M	830	LYS	5.5
3	N	108	VAL	5.5
3	N	28	LYS	5.5
3	D	73	CYS	5.5
5	P	106	VAL	5.5
3	D	776	GLU	5.5
3	N	378	ILE	5.5
2	M	950	LEU	5.5
2	C	444	PRO	5.5
2	C	552	HIS	5.5
5	F	325	LYS	5.5
2	C	1027	PHE	5.5
2	M	145	GLY	5.5
2	M	585	GLU	5.5
3	N	965	GLU	5.5
3	D	425	GLY	5.5
1	B	127	LEU	5.5
2	C	117	HIS	5.5
2	C	149	THR	5.5
1	A	150	TYR	5.4
1	B	2	LEU	5.4
5	P	108	GLU	5.4
2	M	875	GLY	5.4
1	A	227	ASN	5.4
5	F	87	GLU	5.4
1	B	187	GLY	5.4
2	C	1118	LYS	5.4
3	D	58	CYS	5.4
2	M	947	ALA	5.4
3	N	1085	ALA	5.4
3	N	1226	ALA	5.4
1	K	213	GLN	5.4

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Mol	Chain	Res	Type	RSRZ
2	C	320	HIS	5.4
1	L	6	LEU	5.4
2	C	1003	ASP	5.4
2	C	1117	SER	5.4
2	M	718	GLY	5.4
2	M	793	PRO	5.4
3	N	547	LEU	5.4
5	F	358	LEU	5.4
3	D	417	PRO	5.4
2	M	550	LEU	5.4
3	D	520	LEU	5.4
5	P	169	GLU	5.4
3	D	1418	LYS	5.4
1	L	186	LEU	5.3
5	F	347	GLN	5.3
3	D	609	GLY	5.3
2	M	1070	ILE	5.3
2	C	1094	ALA	5.3
3	D	774	SER	5.3
1	B	192	LEU	5.3
2	C	728	HIS	5.3
1	L	157	GLY	5.3
5	P	329	TYR	5.3
2	C	349	ALA	5.3
3	N	1408	ILE	5.3
3	D	708	LEU	5.3
2	M	1034	GLU	5.3
2	M	154	ARG	5.3
2	C	446	GLY	5.3
3	D	585	GLY	5.3
3	D	423	ASP	5.3
5	F	201	LYS	5.3
5	P	337	HIS	5.3
5	F	146	GLY	5.3
1	A	67	THR	5.3
3	N	1288	GLU	5.3
1	K	128	HIS	5.3
2	M	649	VAL	5.3
3	D	25	GLU	5.2
4	E	50	THR	5.2
5	F	103	ALA	5.2
4	O	78	ASN	5.2

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Mol	Chain	Res	Type	RSRZ
2	M	409	ARG	5.2
1	A	65	PHE	5.2
3	N	1197	ARG	5.2
3	D	1169	ASP	5.2
2	C	828	ALA	5.2
2	M	1068	GLU	5.2
3	D	1085	ALA	5.2
3	D	125	GLN	5.2
5	P	391	GLY	5.2
1	A	80	LEU	5.2
5	P	166	LEU	5.2
3	N	868	TYR	5.1
3	D	97	THR	5.1
1	A	200	TRP	5.1
2	M	123	GLU	5.1
3	D	184	GLU	5.1
5	F	118	GLU	5.1
2	M	100	LEU	5.1
1	B	84	GLU	5.1
1	K	151	VAL	5.1
2	M	942	GLU	5.1
3	N	699	VAL	5.1
3	D	1308	GLU	5.1
3	N	470	LEU	5.1
1	K	47	SER	5.1
2	C	1090	LYS	5.1
3	D	1138	ALA	5.1
2	M	628	PHE	5.1
2	C	562	SER	5.1
2	M	613	VAL	5.1
3	D	78	VAL	5.1
2	M	1035	MET	5.0
2	C	193	LEU	5.0
3	D	1318	TYR	5.0
3	N	1397	LYS	5.0
2	C	550	LEU	5.0
1	B	5	LYS	5.0
3	N	364	GLY	5.0
3	N	582	LEU	5.0
5	P	395	GLU	5.0
2	M	819	VAL	5.0
1	K	156	HIS	5.0

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Mol	Chain	Res	Type	RSRZ
1	B	58	ILE	5.0
1	L	81	ASN	5.0
2	C	510	ALA	5.0
1	A	14	ARG	5.0
2	M	24	GLU	5.0
3	D	680	GLN	5.0
3	D	1297	GLU	5.0
2	C	42	VAL	5.0
3	D	555	LYS	5.0
2	C	1095	LEU	4.9
3	D	243	ALA	4.9
3	D	406	ASP	4.9
3	D	562	ALA	4.9
3	N	1345	GLU	4.9
4	E	45	ARG	4.9
3	D	250	LEU	4.9
2	C	768	THR	4.9
2	M	832	LYS	4.9
3	D	190	GLU	4.9
1	B	138	LEU	4.9
2	M	408	ARG	4.9
2	M	41	ASN	4.9
2	C	1078	GLU	4.9
2	C	1035	MET	4.9
1	L	160	ASP	4.9
3	D	1126	ASP	4.9
1	B	171	PHE	4.9
1	A	8	ALA	4.9
1	L	182	GLU	4.9
3	D	949	ILE	4.9
3	D	1363	LEU	4.9
3	N	584	ASN	4.9
2	C	262	ALA	4.9
5	P	369	LEU	4.9
3	D	66	GLN	4.9
1	B	185	ARG	4.9
3	N	940	THR	4.9
3	D	21	TRP	4.9
3	D	63	TYR	4.9
3	D	378	ILE	4.9
1	K	142	VAL	4.8
3	D	1224	VAL	4.8

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Mol	Chain	Res	Type	RSRZ
5	F	309	LYS	4.8
2	M	264	PRO	4.8
3	N	1169	ASP	4.8
5	P	420	ASP	4.8
1	L	45	LEU	4.8
3	D	587	ARG	4.8
5	F	172	ARG	4.8
2	C	206	THR	4.8
3	N	609	GLY	4.8
2	M	761	PHE	4.8
2	C	603	VAL	4.8
3	N	578	VAL	4.8
3	D	755	ALA	4.8
2	C	238	LEU	4.8
3	D	90	MET	4.8
5	F	189	GLU	4.8
5	F	395	GLU	4.8
3	N	1359	GLN	4.8
3	D	947	ILE	4.8
3	D	1128	VAL	4.8
3	D	589	ALA	4.8
4	E	42	PRO	4.8
5	F	384	GLU	4.8
5	F	348	SER	4.8
3	N	1442	ASN	4.8
2	C	1093	GLN	4.7
3	D	535	PHE	4.7
1	A	7	LYS	4.7
2	C	225	SER	4.7
2	C	751	PRO	4.7
5	F	405	LEU	4.7
2	M	1075	ASP	4.7
1	A	212	ASN	4.7
2	C	786	LYS	4.7
1	B	216	GLU	4.7
3	D	969	ARG	4.7
5	F	143	HIS	4.6
2	C	255	ALA	4.6
3	D	766	ALA	4.6
1	K	126	ASP	4.6
2	C	384	GLU	4.6
2	C	663	ASN	4.6

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Mol	Chain	Res	Type	RSRZ
2	M	511	GLU	4.6
2	M	562	SER	4.6
2	C	125	GLY	4.6
3	N	1333	HIS	4.6
1	L	92	PRO	4.6
2	C	443	THR	4.6
4	E	4	PRO	4.6
1	K	77	GLU	4.6
1	L	175	ARG	4.6
3	D	810	GLU	4.6
3	D	579	ASP	4.6
5	P	143	HIS	4.6
2	M	149	THR	4.6
3	D	603	LEU	4.6
3	N	1420	LEU	4.6
2	C	985	GLY	4.6
3	D	91	GLY	4.6
1	B	80	LEU	4.6
2	M	213	ALA	4.6
2	C	649	VAL	4.6
2	C	563	ASN	4.6
5	P	387	GLY	4.6
2	M	730	SER	4.6
1	B	182	GLU	4.5
2	C	351	LEU	4.5
3	N	203	ALA	4.5
1	L	1	MET	4.5
2	C	188	LYS	4.5
2	C	335	THR	4.5
2	M	283	ILE	4.5
2	M	1089	VAL	4.5
2	C	784	ASP	4.5
3	D	754	PHE	4.5
2	C	289	THR	4.5
4	E	60	ALA	4.5
3	N	1404	ASN	4.5
2	C	231	PRO	4.5
2	M	161	SER	4.5
2	M	604	ALA	4.5
1	L	138	LEU	4.5
5	F	167	PRO	4.5
5	F	417	LYS	4.5

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Mol	Chain	Res	Type	RSRZ
2	C	761	PHE	4.5
2	C	879	ARG	4.5
2	C	175	GLU	4.5
2	C	442	GLU	4.5
3	D	807	ALA	4.5
1	K	10	VAL	4.5
5	F	178	ARG	4.5
2	C	82	GLU	4.5
3	N	1338	ALA	4.5
2	C	832	LYS	4.5
2	C	283	ILE	4.5
3	D	72	VAL	4.5
3	N	1228	SER	4.5
2	C	237	ARG	4.4
2	C	722	ILE	4.4
4	O	5	GLY	4.4
3	D	94	GLU	4.4
5	F	418	LEU	4.4
5	F	400	ILE	4.4
3	N	1084	THR	4.4
2	M	235	LEU	4.4
3	N	860	LEU	4.4
3	N	1023	MET	4.4
3	N	1394	VAL	4.4
1	K	219	ARG	4.4
3	N	708	LEU	4.4
3	D	517	VAL	4.4
2	C	312	ALA	4.4
1	K	84	GLU	4.4
2	M	60	GLY	4.4
2	M	767	PRO	4.4
1	A	213	GLN	4.4
3	N	698	LYS	4.3
5	P	417	LYS	4.3
2	M	751	PRO	4.3
3	D	521	PRO	4.3
2	C	1034	GLU	4.3
3	D	35	ARG	4.3
2	C	530	GLU	4.3
2	M	541	SER	4.3
2	M	591	SER	4.3
2	M	1092	LEU	4.3

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Mol	Chain	Res	Type	RSRZ
3	D	24	GLY	4.3
2	C	706	GLU	4.3
2	C	699	PHE	4.3
2	M	944	LEU	4.3
1	A	117	VAL	4.3
1	B	3	ASP	4.3
2	C	718	GLY	4.3
3	D	88	TYR	4.3
3	D	1159	ARG	4.3
3	N	1463	LYS	4.3
3	N	604	THR	4.3
2	C	591	SER	4.3
4	O	83	ASP	4.3
5	P	121	GLY	4.3
3	N	608	SER	4.3
5	F	174	LEU	4.3
2	C	315	ALA	4.3
5	F	357	ALA	4.3
4	O	77	GLU	4.3
1	L	46	SER	4.3
2	M	493	ARG	4.3
2	M	1119	ARG	4.3
3	N	1095	THR	4.3
2	C	324	ASP	4.3
3	D	84	ILE	4.3
5	F	322	GLY	4.3
1	A	128	HIS	4.3
3	N	230	TRP	4.2
2	M	245	GLY	4.2
3	N	1031	ASN	4.2
1	K	99	LEU	4.2
2	C	50	GLU	4.2
2	M	1116	ALA	4.2
2	C	404	LEU	4.2
2	M	587	VAL	4.2
3	D	1172	HIS	4.2
2	C	64	LEU	4.2
2	C	100	LEU	4.2
2	M	722	ILE	4.2
1	K	144	VAL	4.2
2	M	823	VAL	4.2
3	D	76	CYS	4.2

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Mol	Chain	Res	Type	RSRZ
2	C	269	LEU	4.2
5	F	404	ALA	4.2
3	D	1099	VAL	4.2
3	D	1303	TYR	4.2
2	C	877	PRO	4.2
3	N	718	PRO	4.2
3	N	1232	PRO	4.2
2	M	25	SER	4.2
2	C	367	LEU	4.2
2	C	1062	GLY	4.2
3	D	580	ALA	4.2
2	M	987	ILE	4.2
2	C	150	PRO	4.2
3	N	167	GLU	4.1
3	N	1053	PHE	4.1
3	D	1137	ARG	4.1
2	M	174	LEU	4.1
2	M	367	LEU	4.1
5	P	422	LEU	4.1
3	N	1318	TYR	4.1
2	M	368	THR	4.1
5	F	361	LEU	4.1
2	C	346	VAL	4.1
2	M	249	LYS	4.1
3	D	1408	ILE	4.1
3	D	212	ARG	4.1
2	C	342	ASP	4.1
2	M	706	GLU	4.1
3	D	940	THR	4.1
3	N	1443	THR	4.1
2	M	1076	VAL	4.1
2	C	408	ARG	4.1
3	N	1074	SER	4.1
2	C	226	VAL	4.1
3	N	1458	GLU	4.1
3	D	518	PRO	4.1
2	M	601	GLY	4.1
3	N	1229	ILE	4.1
5	P	376	ILE	4.1
5	F	412	GLU	4.1
2	C	509	ALA	4.1
3	N	554	LEU	4.1

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Mol	Chain	Res	Type	RSRZ
3	D	77	GLY	4.1
3	N	1003	VAL	4.1
4	O	55	PHE	4.1
2	M	144	PRO	4.0
3	N	63	TYR	4.0
2	C	207	LEU	4.0
2	M	342	ASP	4.0
2	C	272	ALA	4.0
3	N	518	PRO	4.0
5	F	104	ARG	4.0
2	C	338	GLU	4.0
2	M	203	ASP	4.0
3	N	671	LYS	4.0
1	A	87	VAL	4.0
2	M	756	VAL	4.0
3	N	680	GLN	4.0
2	C	49	ARG	4.0
3	N	1007	VAL	4.0
2	M	1003	ASP	4.0
3	D	899	LEU	4.0
3	D	415	VAL	4.0
1	K	159	LYS	4.0
3	D	1070	TYR	4.0
2	C	314	THR	4.0
3	N	579	ASP	4.0
5	F	282	LEU	4.0
2	M	663	ASN	4.0
3	N	1441	GLN	4.0
3	D	1047	LYS	4.0
2	M	742	VAL	3.9
2	M	1094	ALA	3.9
2	C	81	ASP	3.9
3	N	1210	SER	3.9
2	C	359	MET	3.9
2	M	737	LEU	3.9
2	C	198	ARG	3.9
1	L	97	VAL	3.9
3	D	1379	VAL	3.9
1	B	160	ASP	3.9
2	M	1019	GLN	3.9
2	M	676	ILE	3.9
3	D	1403	LEU	3.9

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Mol	Chain	Res	Type	RSRZ
1	A	144	VAL	3.9
1	A	215	VAL	3.9
2	C	823	VAL	3.9
3	D	96	ALA	3.9
2	M	495	THR	3.9
4	O	62	THR	3.9
2	M	949	LYS	3.9
2	C	883	GLY	3.9
2	M	933	GLY	3.9
2	M	108	ILE	3.9
2	C	1026	GLN	3.9
3	N	962	GLN	3.9
2	C	676	ILE	3.9
3	D	163	TYR	3.9
3	N	1303	TYR	3.9
3	N	1356	TYR	3.9
5	F	376	ILE	3.9
3	D	449	SER	3.9
3	N	759	ALA	3.9
3	D	878	GLY	3.9
3	N	949	ILE	3.9
2	C	792	VAL	3.8
3	D	1048	PRO	3.8
3	N	1128	VAL	3.8
3	D	506	GLY	3.8
1	B	128	HIS	3.8
3	D	976	GLN	3.8
2	M	939	ARG	3.8
2	M	1020	PRO	3.8
1	B	142	VAL	3.8
2	C	1089	VAL	3.8
3	D	1294	VAL	3.8
3	N	577	ALA	3.8
2	M	1043	TYR	3.8
3	D	404	GLU	3.8
2	M	646	GLY	3.8
1	K	2	LEU	3.8
3	D	59	ALA	3.8
2	C	613	VAL	3.8
2	M	874	LEU	3.8
3	D	1437	ALA	3.8
5	P	262	VAL	3.8

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Mol	Chain	Res	Type	RSRZ
5	P	405	LEU	3.8
3	D	718	PRO	3.8
3	D	1307	LYS	3.8
5	P	178	ARG	3.8
1	A	175	ARG	3.7
1	A	115	LEU	3.7
1	L	132	LEU	3.7
2	M	262	ALA	3.7
5	F	341	PRO	3.7
2	M	471	TYR	3.7
2	C	932	GLU	3.7
3	N	1077	ALA	3.7
2	C	668	LEU	3.7
5	F	369	LEU	3.7
2	C	601	GLY	3.7
2	C	203	ASP	3.7
3	N	709	HIS	3.7
1	K	87	VAL	3.7
3	D	623	VAL	3.7
4	O	54	LEU	3.7
3	D	61	GLY	3.7
3	D	775	GLY	3.7
1	A	176	ARG	3.7
2	C	628	PHE	3.7
2	C	236	ILE	3.7
3	N	1118	ILE	3.7
1	B	115	LEU	3.7
2	C	1087	VAL	3.7
1	A	19	GLU	3.7
1	A	84	GLU	3.7
2	C	388	ARG	3.7
2	M	872	ASN	3.7
3	N	771	SER	3.7
3	D	558	LEU	3.7
3	N	1241	PHE	3.7
3	D	709	HIS	3.7
3	D	1310	ARG	3.7
3	D	20	SER	3.7
1	L	29	GLU	3.7
2	M	757	GLY	3.7
5	F	420	ASP	3.7
3	D	983	LEU	3.7

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Mol	Chain	Res	Type	RSRZ
3	N	78	VAL	3.7
3	N	1379	VAL	3.7
2	M	561	GLY	3.7
1	L	148	VAL	3.6
3	N	439	LEU	3.6
5	F	147	LEU	3.6
1	A	189	ARG	3.6
3	D	41	ARG	3.6
5	P	172	ARG	3.6
2	M	82	GLU	3.6
2	M	177	GLU	3.6
3	N	238	PRO	3.6
3	D	1260	ILE	3.6
2	C	79	PRO	3.6
2	M	778	PHE	3.6
2	M	829	GLN	3.6
3	D	948	THR	3.6
4	O	59	ASN	3.6
2	C	253	ALA	3.6
2	M	101	ILE	3.6
3	N	631	ILE	3.6
3	N	1346	ARG	3.6
2	M	175	GLU	3.6
3	N	1172	HIS	3.6
2	M	985	GLY	3.6
1	K	65	PHE	3.6
2	C	945	ARG	3.6
5	F	169	GLU	3.6
2	M	64	LEU	3.6
3	D	1313	VAL	3.6
2	C	933	GLY	3.6
3	N	21	TRP	3.6
3	N	788	GLY	3.6
3	N	102	ILE	3.6
2	M	583	LEU	3.6
3	D	895	VAL	3.6
3	D	809	PRO	3.6
3	N	555	LYS	3.6
3	N	1438	ALA	3.6
2	C	629	TYR	3.6
2	M	128	ILE	3.6
2	M	1111	ILE	3.6

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Mol	Chain	Res	Type	RSRZ
2	M	945	ARG	3.6
3	N	239	GLY	3.6
5	F	353	GLU	3.6
2	C	737	LEU	3.6
2	C	161	SER	3.6
2	C	723	THR	3.6
2	C	1086	ARG	3.6
5	F	249	ARG	3.6
3	N	774	SER	3.5
3	D	896	ALA	3.5
1	B	211	LEU	3.5
2	M	1079	PRO	3.5
3	N	437	VAL	3.5
2	C	675	ALA	3.5
3	N	1364	HIS	3.5
5	P	296	GLY	3.5
5	F	389	PHE	3.5
3	N	1398	TRP	3.5
1	A	142	VAL	3.5
2	C	514	VAL	3.5
2	M	606	VAL	3.5
3	D	900	ILE	3.5
2	C	202	TYR	3.5
2	M	1017	THR	3.5
2	M	272	ALA	3.5
3	D	60	CYS	3.5
1	B	140	MET	3.5
1	K	212	ASN	3.5
2	C	609	ASN	3.5
5	P	233	PHE	3.5
2	M	912	PRO	3.5
1	K	53	VAL	3.5
2	C	592	LEU	3.5
3	D	881	LEU	3.5
5	P	418	LEU	3.5
3	D	791	TYR	3.5
2	C	604	ALA	3.5
2	M	1090	LYS	3.5
3	N	610	LYS	3.5
3	N	980	MET	3.5
2	C	757	GLY	3.5
3	D	222	GLY	3.5

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Mol	Chain	Res	Type	RSRZ
2	C	660	ALA	3.5
1	K	140	MET	3.5
2	M	357	GLU	3.5
3	N	1072	ILE	3.5
2	C	228	ALA	3.5
2	C	459	ALA	3.5
3	D	203	ALA	3.5
2	M	647	GLN	3.4
2	C	95	TYR	3.4
2	M	248	PRO	3.4
3	N	438	ASP	3.4
2	M	922	PHE	3.4
3	N	91	GLY	3.4
2	M	315	ALA	3.4
2	M	422	ARG	3.4
2	M	629	TYR	3.4
2	M	242	LEU	3.4
2	M	455	LEU	3.4
3	D	631	ILE	3.4
3	N	1437	ALA	3.4
2	M	314	THR	3.4
1	L	140	MET	3.4
5	P	410	TYR	3.4
2	M	1041	GLU	3.4
3	N	190	GLU	3.4
3	D	1293	PHE	3.4
1	K	56	VAL	3.4
2	C	756	VAL	3.4
5	P	400	ILE	3.4
2	C	177	GLU	3.4
2	M	439	CYS	3.4
3	N	556	LYS	3.4
2	C	1088	LEU	3.4
3	N	178	LEU	3.4
3	D	1438	ALA	3.4
1	K	148	VAL	3.4
2	M	404	LEU	3.4
3	D	1110	ALA	3.4
3	D	1333	HIS	3.4
2	M	1037	VAL	3.4
3	N	866	VAL	3.4
3	D	1227	GLN	3.4

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Mol	Chain	Res	Type	RSRZ
3	D	1417	TRP	3.4
2	M	986	PRO	3.4
2	M	9	ILE	3.4
3	D	758	GLU	3.4
2	M	563	ASN	3.3
2	C	313	LEU	3.3
2	M	52	PHE	3.3
2	M	247	PRO	3.3
5	F	401	GLU	3.3
3	N	1159	ARG	3.3
2	C	714	ASP	3.3
3	D	752	SER	3.3
5	F	188	ILE	3.3
3	N	756	GLN	3.3
3	N	798	GLU	3.3
2	C	456	ALA	3.3
3	D	1338	ALA	3.3
3	D	711	LEU	3.3
3	D	1241	PHE	3.3
2	M	405	ARG	3.3
2	M	85	GLU	3.3
3	D	740	PHE	3.3
2	M	532	MET	3.3
3	D	604	THR	3.3
2	M	615	TYR	3.3
1	K	5	LYS	3.3
2	M	696	LYS	3.3
2	M	754	ILE	3.3
5	F	213	ILE	3.3
1	B	120	VAL	3.3
3	D	632	VAL	3.3
3	N	1434	TRP	3.3
3	D	554	LEU	3.3
1	K	157	GLY	3.3
3	D	611	GLN	3.3
5	P	188	ILE	3.3
1	K	214	ALA	3.3
2	C	504	GLU	3.3
3	D	69	GLU	3.3
1	K	97	VAL	3.3
3	D	1359	GLN	3.3
3	N	950	GLY	3.3

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Mol	Chain	Res	Type	RSRZ
2	C	102	HIS	3.3
2	C	843	HIS	3.3
1	B	29	GLU	3.3
3	D	583	ASP	3.3
2	C	257	VAL	3.2
3	D	1232	PRO	3.2
1	B	114	PHE	3.2
2	C	979	THR	3.2
3	D	564	GLU	3.2
2	M	998	TYR	3.2
2	C	132	ALA	3.2
4	O	6	ILE	3.2
5	F	112	ALA	3.2
1	L	187	GLY	3.2
2	C	831	ARG	3.2
2	M	453	THR	3.2
3	N	564	GLU	3.2
3	D	1442	ASN	3.2
2	C	1042	ALA	3.2
3	D	381	ALA	3.2
2	C	875	GLY	3.2
3	N	899	LEU	3.2
3	N	1041	LEU	3.2
2	C	496	ILE	3.2
2	M	1016	ILE	3.2
2	M	534	VAL	3.2
3	N	142	LEU	3.2
1	K	98	THR	3.2
2	M	675	ALA	3.2
1	K	74	ASP	3.2
2	C	976	ASP	3.2
3	D	503	LEU	3.2
5	F	402	ASN	3.2
2	C	59	LYS	3.2
2	C	227	PHE	3.2
3	D	453	ASP	3.2
1	K	226	SER	3.2
2	C	13	ILE	3.2
3	D	1292	VAL	3.2
3	N	476	GLU	3.2
5	F	312	GLN	3.2
5	P	363	GLU	3.2

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Mol	Chain	Res	Type	RSRZ
2	M	258	TYR	3.2
5	P	126	LEU	3.2
2	M	206	THR	3.2
3	D	1084	THR	3.2
4	E	53	GLY	3.2
3	D	577	ALA	3.2
2	M	278	GLU	3.2
2	M	612	VAL	3.2
3	N	58	CYS	3.2
2	C	310	LEU	3.2
2	C	775	ARG	3.1
1	A	53	VAL	3.1
1	A	66	SER	3.1
2	C	742	VAL	3.1
3	D	866	VAL	3.1
1	K	122	ILE	3.1
2	C	372	LEU	3.1
2	M	372	LEU	3.1
3	N	574	LEU	3.1
2	C	259	GLY	3.1
3	N	106	LYS	3.1
5	F	334	PRO	3.1
3	N	623	VAL	3.1
3	D	922	LEU	3.1
3	N	561	GLY	3.1
3	N	1013	GLU	3.1
3	N	1464	GLU	3.1
2	C	1017	THR	3.1
2	M	668	LEU	3.1
4	O	11	GLY	3.1
2	M	699	PHE	3.1
3	D	92	HIS	3.1
3	D	909	ASN	3.1
2	M	622	GLU	3.1
3	N	1127	GLU	3.1
2	M	645	VAL	3.1
3	D	82	LYS	3.1
1	L	126	ASP	3.1
3	N	914	LEU	3.1
3	N	1407	LEU	3.1
5	F	375	LEU	3.1
1	K	116	PRO	3.1

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Mol	Chain	Res	Type	RSRZ
2	M	925	TYR	3.1
2	C	779	GLY	3.1
5	P	162	LYS	3.1
2	C	290	LEU	3.1
2	C	368	THR	3.1
3	N	204	LEU	3.1
2	C	213	ALA	3.1
2	C	248	PRO	3.1
2	C	873	PRO	3.1
3	N	715	ALA	3.1
1	B	124	ASN	3.1
3	N	179	VAL	3.1
2	M	882	LEU	3.1
4	E	51	LEU	3.1
2	C	29	ALA	3.1
1	B	56	VAL	3.1
5	P	368	VAL	3.1
3	N	73	CYS	3.1
2	C	884	GLN	3.0
5	P	282	LEU	3.0
2	C	1020	PRO	3.0
2	C	710	ILE	3.0
2	C	947	ALA	3.0
5	P	109	GLY	3.0
5	P	146	GLY	3.0
2	C	713	ARG	3.0
3	D	633	VAL	3.0
1	K	85	LEU	3.0
3	D	965	GLU	3.0
4	O	51	LEU	3.0
2	M	741	GLY	3.0
2	M	102	HIS	3.0
2	M	602	GLU	3.0
3	D	706	PRO	3.0
5	P	402	ASN	3.0
1	B	61	VAL	3.0
2	C	822	VAL	3.0
1	A	99	LEU	3.0
2	M	464	LEU	3.0
3	D	161	LEU	3.0
5	P	85	LEU	3.0
1	B	210	ALA	3.0

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Mol	Chain	Res	Type	RSRZ
2	M	442	GLU	3.0
1	K	130	ALA	3.0
2	M	240	THR	3.0
2	C	278	GLU	3.0
2	C	695	LEU	3.0
3	N	404	GLU	3.0
1	K	20	TYR	3.0
5	P	125	ASP	3.0
1	B	207	PRO	3.0
3	N	957	PRO	3.0
5	P	297	PRO	3.0
2	C	348	LEU	3.0
3	N	896	ALA	3.0
3	N	1231	GLU	3.0
3	N	149	LYS	2.9
5	P	115	LYS	2.9
2	M	1039	ALA	2.9
1	K	66	SER	2.9
3	N	197	SER	2.9
3	D	692	GLU	2.9
2	C	830	LYS	2.9
3	D	409	VAL	2.9
2	C	922	PHE	2.9
3	N	536	ALA	2.9
1	B	132	LEU	2.9
2	M	625	LEU	2.9
3	D	1262	LEU	2.9
2	C	912	PRO	2.9
3	N	1294	VAL	2.9
2	M	926	PHE	2.9
3	D	120	ALA	2.9
2	C	730	SER	2.9
2	C	252	LYS	2.9
2	C	987	ILE	2.9
1	B	16	GLN	2.9
3	D	377	VAL	2.9
1	A	51	THR	2.9
3	D	936	TYR	2.9
3	N	205	TYR	2.9
3	N	973	GLN	2.9
3	N	976	GLN	2.9
2	C	382	ILE	2.9

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Mol	Chain	Res	Type	RSRZ
3	N	202	VAL	2.9
2	C	931	GLY	2.9
3	N	1403	LEU	2.9
3	D	726	ILE	2.9
3	N	710	ARG	2.9
3	D	1259	VAL	2.9
2	M	723	THR	2.9
2	M	241	LEU	2.9
2	M	695	LEU	2.9
3	N	1435	LEU	2.9
3	N	206	ARG	2.9
2	C	210	GLU	2.9
5	F	385	GLU	2.9
1	B	205	VAL	2.9
2	C	54	ILE	2.9
2	C	799	ILE	2.9
3	N	633	VAL	2.9
2	C	925	TYR	2.9
3	D	1339	LYS	2.9
2	C	511	GLU	2.8
3	N	1040	GLY	2.8
2	C	1076	VAL	2.8
3	D	608	SER	2.8
3	N	72	VAL	2.8
3	D	1312	LEU	2.8
5	F	233	PHE	2.8
5	P	375	LEU	2.8
3	N	479	GLU	2.8
5	P	384	GLU	2.8
3	D	1251	ASP	2.8
2	C	750	LYS	2.8
5	F	366	ALA	2.8
3	D	395	VAL	2.8
3	N	241	ILE	2.8
3	N	1004	THR	2.8
2	C	66	LEU	2.8
3	D	914	LEU	2.8
3	D	246	PRO	2.8
3	D	370	ALA	2.8
3	D	715	ALA	2.8
1	A	77	GLU	2.8
3	D	64	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
5	P	213	ILE	2.8
2	M	918	LEU	2.8
2	C	316	GLY	2.8
2	C	540	PHE	2.8
3	D	205	TYR	2.8
5	P	334	PRO	2.8
5	P	255	ALA	2.8
2	M	199	VAL	2.8
3	N	1292	VAL	2.8
3	N	808	THR	2.8
3	D	142	LEU	2.8
1	L	171	PHE	2.8
3	D	1197	ARG	2.8
3	N	760	ARG	2.8
5	P	153	PRO	2.8
3	D	369	ALA	2.8
1	K	30	ARG	2.8
3	N	622	ARG	2.8
3	N	726	ILE	2.8
4	O	73	LEU	2.8
3	N	740	PHE	2.8
2	C	1066	ALA	2.8
2	M	251	ASP	2.8
2	M	131	GLY	2.8
3	D	1394	VAL	2.8
3	N	159	ARG	2.8
3	N	632	VAL	2.8
2	M	469	THR	2.8
2	C	328	LEU	2.8
3	D	141	ILE	2.8
3	N	18	ILE	2.8
3	N	900	ILE	2.8
3	D	765	SER	2.7
3	N	423	ASP	2.7
3	N	745	MET	2.7
1	K	223	THR	2.7
2	M	1040	LEU	2.7
2	C	1016	ILE	2.7
3	D	882	PHE	2.7
3	N	1357	ARG	2.7
5	F	142	ARG	2.7
2	M	359	MET	2.7

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Mol	Chain	Res	Type	RSRZ
2	M	743	VAL	2.7
3	N	1000	THR	2.7
2	M	678	PRO	2.7
3	D	563	PRO	2.7
2	M	592	LEU	2.7
2	M	1088	LEU	2.7
3	D	872	ARG	2.7
3	D	1380	GLU	2.7
1	A	159	LYS	2.7
1	B	225	PHE	2.7
1	K	175	ARG	2.7
1	L	223	THR	2.7
1	B	7	LYS	2.7
3	D	1456	LYS	2.7
3	N	366	LYS	2.7
3	N	1260	ILE	2.7
2	C	741	GLY	2.7
1	K	8	ALA	2.7
2	M	531	PHE	2.7
4	E	27	ALA	2.7
3	N	1161	GLU	2.7
2	M	643	VAL	2.7
5	P	171	LYS	2.7
1	B	206	THR	2.7
3	D	1257	PRO	2.7
3	D	1384	PRO	2.7
1	A	218	LEU	2.7
2	C	197	LEU	2.7
2	C	583	LEU	2.7
3	N	996	TRP	2.7
3	N	1160	LEU	2.7
3	D	902	LEU	2.7
1	K	14	ARG	2.7
2	M	614	ARG	2.7
3	D	996	TRP	2.7
5	P	242	TRP	2.7
1	L	58	ILE	2.7
2	M	129	ILE	2.7
2	M	1045	ALA	2.7
3	N	391	ALA	2.7
3	N	802	ALA	2.7
5	P	335	ASP	2.7

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Mol	Chain	Res	Type	RSRZ
3	D	1344	VAL	2.7
3	N	216	VAL	2.7
3	N	1306	PRO	2.7
1	K	51	THR	2.7
1	K	108	GLU	2.7
3	D	1287	GLU	2.7
2	C	284	ARG	2.7
2	C	816	LYS	2.7
2	M	728	HIS	2.7
3	D	1346	ARG	2.7
1	A	210	ALA	2.7
3	D	391	ALA	2.7
2	M	492	ASP	2.7
2	M	533	ASP	2.7
2	M	967	PHE	2.7
5	P	124	PRO	2.6
3	D	861	GLN	2.6
3	D	707	THR	2.6
3	N	1234	THR	2.6
3	N	245	LEU	2.6
5	F	349	LEU	2.6
2	C	140	ILE	2.6
2	M	127	PHE	2.6
2	C	405	ARG	2.6
3	D	178	LEU	2.6
2	M	75	GLU	2.6
1	B	143	ARG	2.6
2	M	516	ARG	2.6
3	N	1314	LYS	2.6
2	C	128	ILE	2.6
3	N	1235	GLN	2.6
1	K	149	GLY	2.6
5	F	328	PHE	2.6
2	C	936	VAL	2.6
2	M	655	LEU	2.6
3	D	465	LEU	2.6
5	P	331	ASP	2.6
5	P	373	LYS	2.6
5	P	366	ALA	2.6
2	M	239	PHE	2.6
5	P	314	PRO	2.6
2	C	534	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
3	D	247	GLU	2.6
3	D	1228	SER	2.6
2	C	1019	GLN	2.6
2	C	62	GLY	2.6
2	M	798	GLY	2.6
3	N	1222	GLY	2.6
2	M	662	GLU	2.6
3	N	1039	CYS	2.6
4	O	52	GLU	2.6
1	B	217	ILE	2.6
2	C	1047	HIS	2.6
3	N	1433	SER	2.6
3	D	204	LEU	2.6
3	N	37	LEU	2.6
3	N	1220	ALA	2.6
2	C	85	GLU	2.6
2	M	883	GLY	2.6
3	D	767	HIS	2.6
2	C	516	ARG	2.6
2	C	573	ARG	2.6
2	M	472	ARG	2.6
3	N	236	TYR	2.6
2	C	1110	ASP	2.6
3	N	922	LEU	2.6
2	C	612	VAL	2.6
2	C	777	ILE	2.6
3	N	240	GLU	2.6
3	N	1380	GLU	2.6
2	M	839	LEU	2.5
3	D	720	LEU	2.5
3	N	832	ARG	2.5
3	N	1238	MET	2.5
4	E	83	ASP	2.5
5	F	297	PRO	2.5
2	M	932	GLU	2.5
1	K	76	VAL	2.5
2	C	65	VAL	2.5
2	C	1043	TYR	2.5
3	D	886	VAL	2.5
3	N	401	TYR	2.5
3	N	707	THR	2.5
1	B	82	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
5	P	163	LEU	2.5
1	A	74	ASP	2.5
1	B	1	MET	2.5
3	D	1032	PRO	2.5
5	P	107	GLU	2.5
3	N	942	SER	2.5
1	B	68	ILE	2.5
1	B	199	ILE	2.5
3	N	1017	PHE	2.5
3	N	88	TYR	2.5
1	L	145	ASP	2.5
2	M	1095	LEU	2.5
3	D	987	GLU	2.5
5	F	350	LEU	2.5
1	K	55	SER	2.5
2	M	822	VAL	2.5
3	D	626	SER	2.5
3	D	694	VAL	2.5
3	D	249	TYR	2.5
2	M	310	LEU	2.5
5	F	212	LEU	2.5
2	C	131	GLY	2.5
3	N	895	VAL	2.5
2	C	108	ILE	2.5
2	C	684	PHE	2.5
2	M	124	ASP	2.5
2	M	45	GLN	2.5
3	D	897	TRP	2.5
3	D	1263	PHE	2.5
2	C	626	ARG	2.5
3	N	720	LEU	2.5
5	P	210	LEU	2.5
2	M	527	GLU	2.5
5	P	401	GLU	2.5
3	N	1436	SER	2.5
3	D	1034	GLN	2.5
3	N	151	GLN	2.5
1	B	23	PHE	2.5
1	K	52	ALA	2.5
5	P	100	VAL	2.5
3	D	1345	GLU	2.5
3	N	882	PHE	2.5

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Mol	Chain	Res	Type	RSRZ
3	N	1455	LYS	2.5
2	C	362	GLY	2.5
3	D	1160	LEU	2.5
3	N	503	LEU	2.5
2	C	214	TYR	2.4
2	C	439	CYS	2.4
2	C	647	GLN	2.4
3	D	1357	ARG	2.4
3	N	1387	SER	2.4
4	E	81	PRO	2.4
3	D	393	ILE	2.4
1	K	82	LEU	2.4
3	N	728	LEU	2.4
3	D	710	ARG	2.4
2	M	1057	SER	2.4
2	M	59	LYS	2.4
1	A	52	ALA	2.4
2	C	743	VAL	2.4
2	M	132	ALA	2.4
2	M	218	VAL	2.4
3	N	528	VAL	2.4
3	N	746	ALA	2.4
4	E	58	PRO	2.4
1	A	140	MET	2.4
1	A	138	LEU	2.4
1	B	218	LEU	2.4
2	C	101	ILE	2.4
2	M	66	LEU	2.4
2	M	1093	GLN	2.4
3	N	1320	GLU	2.4
5	F	166	LEU	2.4
3	N	83	SER	2.4
3	N	936	TYR	2.4
2	M	461	VAL	2.4
1	K	81	ASN	2.4
2	C	440	PRO	2.4
2	C	652	GLY	2.4
2	C	448	ASN	2.4
2	M	536	PRO	2.4
3	D	43	GLY	2.4
3	D	966	GLU	2.4
3	N	621	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
5	P	328	PHE	2.4
5	P	390	PHE	2.4
2	M	755	LEU	2.4
3	N	823	LEU	2.4
5	F	271	LEU	2.4
3	N	753	SER	2.4
2	C	708	TYR	2.4
1	A	56	VAL	2.4
3	D	185	VAL	2.4
3	N	822	ALA	2.4
2	C	249	LYS	2.4
3	D	426	LYS	2.4
3	D	984	THR	2.4
1	K	191	ASP	2.4
1	K	89	PHE	2.4
2	M	620	LEU	2.4
2	M	648	ARG	2.4
4	O	41	GLU	2.4
3	N	138	LYS	2.4
2	M	588	VAL	2.4
5	F	195	VAL	2.4
5	P	404	ALA	2.4
2	M	995	MET	2.4
1	L	36	LEU	2.4
3	D	619	LEU	2.4
1	K	217	ILE	2.4
2	M	611	ILE	2.4
3	N	692	GLU	2.4
3	D	1125	PRO	2.4
3	N	1401	GLU	2.4
1	A	89	PHE	2.4
1	A	114	PHE	2.4
1	B	101	LEU	2.4
1	K	127	LEU	2.4
3	D	972	LEU	2.4
3	D	1061	PHE	2.4
1	K	58	ILE	2.4
2	C	129	ILE	2.4
3	N	371	ILE	2.4
2	C	58	ASP	2.4
1	K	210	ALA	2.3
2	C	230	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
2	M	388	ARG	2.3
4	E	52	GLU	2.3
5	P	207	LEU	2.3
2	C	818	GLY	2.3
3	D	666	ILE	2.3
3	D	1223	ILE	2.3
2	M	1078	GLU	2.3
3	D	1327	ARG	2.3
3	N	41	ARG	2.3
1	L	142	VAL	2.3
2	C	696	LYS	2.3
5	P	195	VAL	2.3
1	A	47	SER	2.3
2	M	871	LEU	2.3
5	F	296	GLY	2.3
1	K	119	ASP	2.3
1	L	139	ASN	2.3
2	M	568	ALA	2.3
3	N	226	PRO	2.3
1	A	97	VAL	2.3
3	D	1003	VAL	2.3
2	C	677	MET	2.3
1	L	161	ARG	2.3
3	N	430	ASP	2.3
4	O	9	LEU	2.3
5	P	209	PHE	2.3
1	A	58	ILE	2.3
2	M	499	ALA	2.3
2	C	483	VAL	2.3
3	N	90	MET	2.3
2	M	269	LEU	2.3
2	M	570	PRO	2.3
3	D	244	GLU	2.3
3	D	833	GLU	2.3
3	N	956	ILE	2.3
2	M	373	VAL	2.3
2	M	900	ARG	2.3
3	D	481	MET	2.3
3	D	950	GLY	2.3
1	A	211	LEU	2.3
5	P	174	LEU	2.3
5	P	293	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
3	D	169	TYR	2.3
3	D	622	ARG	2.3
1	A	31	GLY	2.3
2	C	754	ILE	2.3
3	D	747	VAL	2.3
3	N	42	ASP	2.3
3	N	1365	ASP	2.3
5	F	330	GLY	2.3
2	C	693	GLU	2.3
2	M	831	ARG	2.3
3	D	1256	LEU	2.3
2	M	509	ALA	2.3
3	N	1293	PHE	2.3
2	C	111	ASP	2.3
3	N	1386	ASP	2.3
5	F	216	GLY	2.3
3	D	1238	MET	2.3
3	N	141	ILE	2.3
1	B	71	VAL	2.3
3	D	62	LYS	2.2
2	C	918	LEU	2.2
3	D	575	GLN	2.2
3	N	1462	LEU	2.2
3	D	208	PRO	2.2
5	P	84	TYR	2.2
2	M	1087	VAL	2.2
3	N	1274	ILE	2.2
1	L	41	ARG	2.2
3	N	410	SER	2.2
1	K	200	TRP	2.2
2	C	666	LEU	2.2
2	M	365	ASP	2.2
5	F	153	PRO	2.2
1	K	209	GLU	2.2
3	N	212	ARG	2.2
2	M	789	SER	2.2
3	D	81	THR	2.2
3	D	179	VAL	2.2
3	N	49	ILE	2.2
3	D	639	LEU	2.2
3	N	612	GLY	2.2
3	D	165	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
2	C	1057	SER	2.2
3	N	890	VAL	2.2
2	M	710	ILE	2.2
3	D	992	ILE	2.2
3	N	1253	THR	2.2
3	N	1367	HIS	2.2
2	C	1022	GLY	2.2
3	N	603	LEU	2.2
3	N	1098	LEU	2.2
4	E	46	PRO	2.2
5	P	212	LEU	2.2
2	M	665	PHE	2.2
2	C	322	VAL	2.2
5	P	362	SER	2.2
1	K	68	ILE	2.2
3	D	961	LYS	2.2
3	D	1170	ASP	2.2
2	C	1033	GLY	2.2
3	N	19	ARG	2.2
5	P	378	GLY	2.2
1	L	125	PRO	2.2
3	N	115	LEU	2.2
5	F	116	LEU	2.2
3	D	745	MET	2.2
3	D	811	GLU	2.2
2	C	48	PHE	2.2
2	M	65	VAL	2.2
2	M	288	ARG	2.2
2	M	317	VAL	2.2
2	C	615	TYR	2.2
1	K	138	LEU	2.2
1	L	101	LEU	2.2
3	D	1041	LEU	2.2
3	N	1335	LEU	2.2
2	M	229	MET	2.2
1	B	161	ARG	2.2
2	C	569	VAL	2.2
1	L	103	ALA	2.2
2	M	217	LEU	2.1
1	B	176	ARG	2.1
2	M	1029	GLY	2.1
2	C	355	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
2	M	355	VAL	2.1
3	D	216	VAL	2.1
3	D	1007	VAL	2.1
2	C	1030	GLN	2.1
3	N	1301	LYS	2.1
3	D	509	PRO	2.1
3	N	1384	PRO	2.1
2	M	515	ALA	2.1
1	K	100	LEU	2.1
2	C	309	TYR	2.1
2	C	596	TYR	2.1
3	N	873	LEU	2.1
2	C	399	ASN	2.1
3	D	1454	GLY	2.1
3	N	2	LYS	2.1
2	M	89	THR	2.1
3	N	1200	VAL	2.1
2	M	198	ARG	2.1
2	M	1086	ARG	2.1
2	M	885	ILE	2.1
3	D	1225	ALA	2.1
1	A	85	LEU	2.1
2	M	963	LEU	2.1
3	D	136	ASP	2.1
3	N	1100	ASP	2.1
1	B	83	LYS	2.1
2	M	779	GLY	2.1
3	N	1080	GLY	2.1
1	A	174	VAL	2.1
2	M	460	ARG	2.1
3	N	1486	VAL	2.1
2	M	934	PHE	2.1
5	P	237	THR	2.1
2	C	570	PRO	2.1
2	C	1079	PRO	2.1
1	K	64	GLU	2.1
5	F	268	ILE	2.1
3	D	115	LEU	2.1
3	D	242	LEU	2.1
3	N	1325	LEU	2.1
5	F	210	LEU	2.1
3	D	942	SER	2.1

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Mol	Chain	Res	Type	RSRZ
3	D	1164	ARG	2.1
2	M	1081	VAL	2.1
3	D	52	PRO	2.1
3	N	386	HIS	2.1
1	L	78	ILE	2.1
3	D	1277	ILE	2.1
1	B	139	ASN	2.1
1	L	115	LEU	2.1
2	M	790	LEU	2.1
2	C	458	TYR	2.1
3	N	722	GLU	2.1
3	N	966	GLU	2.1
1	A	181	VAL	2.1
1	K	24	VAL	2.1
1	K	145	ASP	2.1
3	D	172	PRO	2.1
3	N	68	PHE	2.1
1	L	21	GLY	2.1
3	N	887	ALA	2.1
3	N	918	ALA	2.1
3	N	1164	ARG	2.1
2	M	343	GLN	2.1
1	A	127	LEU	2.1
3	D	1141	GLU	2.1
3	D	1325	LEU	2.1
3	N	449	SER	2.1
1	L	144	VAL	2.1
3	D	420	VAL	2.1
5	P	326	ASP	2.1
2	C	614	ARG	2.1
1	K	114	PHE	2.1
1	L	136	GLY	2.1
2	C	160	ALA	2.1
2	M	850	ALA	2.1
3	D	825	ALA	2.1
1	L	7	LYS	2.1
2	C	41	ASN	2.1
2	C	963	LEU	2.1
2	M	120	LEU	2.1
3	D	980	MET	2.1
3	N	20	SER	2.1
5	F	251	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	145	ASP	2.1
2	M	284	ARG	2.0
2	M	415	PRO	2.0
3	N	182	GLY	2.0
3	N	196	VAL	2.0
2	C	620	LEU	2.0
2	C	472	ARG	2.0
2	M	189	ARG	2.0
2	M	432	ARG	2.0
2	M	704	HIS	2.0
3	D	498	VAL	2.0
5	F	368	VAL	2.0
2	C	921	ALA	2.0
2	C	353	ARG	2.0
3	D	586	ARG	2.0
3	N	752	SER	2.0
2	M	81	ASP	2.0
3	N	161	LEU	2.0
5	F	326	ASP	2.0
2	C	731	GLU	2.0
2	C	704	HIS	2.0
3	N	1075	HIS	2.0
3	D	418	GLY	2.0
3	D	1443	THR	2.0
3	N	694	VAL	2.0
3	D	738	ALA	2.0
1	K	57	TYR	2.0
1	L	176	ARG	2.0
3	N	674	ARG	2.0
3	N	1137	ARG	2.0
3	D	245	LEU	2.0
3	D	1301	LYS	2.0
3	N	637	LEU	2.0
3	N	1262	LEU	2.0
1	A	68	ILE	2.0
1	A	122	ILE	2.0
1	K	48	ILE	2.0
2	M	282	GLY	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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
8	TGT	N	9002	26/26	0.62	0.53	41,47,51,52	0
8	TGT	D	9001	26/26	0.49	0.48	44,47,50,52	0
6	MG	N	9006	1/1	0.04	-0.93	4,4,4,4	0
6	MG	C	9004	1/1	0.08	-1.03	17,17,17,17	0
7	ZN	D	9112	1/1	0.08	-1.39	50,50,50,50	0
7	ZN	N	9113	1/1	0.11	-1.56	41,41,41,41	0
6	MG	N	9005	1/1	0.04	-1.64	13,13,13,13	0
6	MG	D	9003	1/1	0.06	-1.88	17,17,17,17	0
7	ZN	N	9059	1/1	0.06	-1.99	42,42,42,42	0
7	ZN	D	9058	1/1	0.19	-5.04	56,56,56,56	0

### 6.5 Other polymers

There are no such residues in this entry.