



# Full wwPDB X-ray Structure Validation Report ⓘ

May 22, 2020 – 04:29 am BST

PDB ID : 1ZYR  
Title : Structure of Thermus thermophilus RNA polymerase holoenzyme in complex with the antibiotic streptolydigin  
Authors : Tuske, S.; Sarafianos, S.G.; Wang, X.; Hudson, B.; Sineva, E.; Mukhopadhyay, J.; Birktoft, J.J.; Leroy, O.; Ismail, S.; Clark, A.D.; Dharia, C.; Napoli, A.; Laptenko, O.; Lee, J.; Borukhov, S.; Ebright, R.H.; Arnold, E.  
Deposited on : 2005-06-10  
Resolution : 3.00 Å(reported)

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

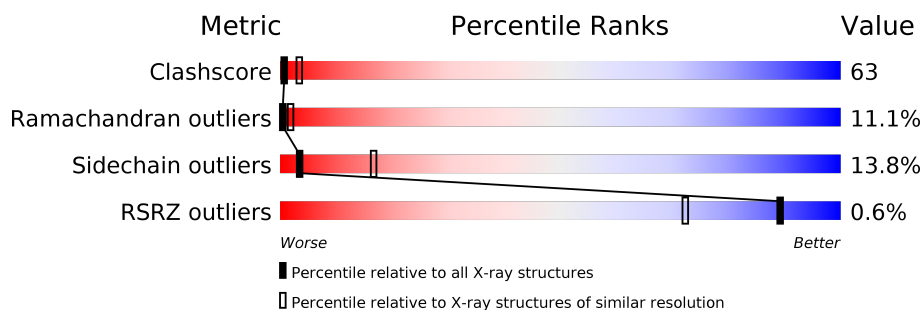
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.00 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))
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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 respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ . The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	315	
1	B	315	
1	K	315	
1	L	315	
2	C	1119	
2	M	1119	
3	D	1524	

*Continued on next page...*

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Mol	Chain	Length	Quality of chain
3	N	1524	<div><div><div></div><div></div><div></div><div></div><div></div></div><div>% 21%54%15%•9%</div></div>
4	E	99	<div><div><div></div><div></div><div></div><div></div><div></div></div><div>29%51%15%••</div></div>
4	O	99	<div><div><div></div><div></div><div></div><div></div><div></div></div><div>31%49%13%••</div></div>
5	F	423	<div><div><div></div><div></div><div></div><div></div><div></div></div><div>23%47%10%•18%</div></div>
5	P	423	<div><div><div></div><div></div><div></div><div></div><div></div></div><div>24%48%8%•18%</div></div>

## 2 Entry composition [i](#)

There are 8 unique types of molecules in this entry. The entry contains 54048 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1392	Total	C	N	O	S	0	0	0
			10975	6953	1941	2048	33			
3	N	1392	Total	C	N	O	S	0	0	0
			10975	6953	1941	2048	33			

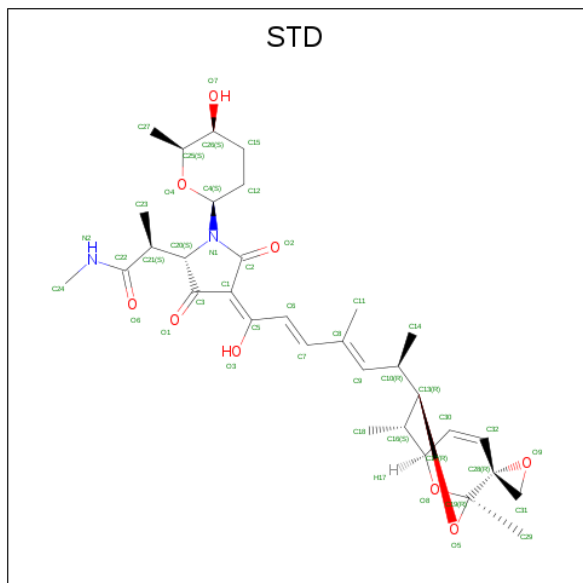
- Molecule 4 is a protein called DNA-directed RNA polymerase omega chain.

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 DNA-directed RNA polymerase sigma chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	345	Total	C	N	O	S	0	0	0
			2793	1762	504	523	4			
5	P	345	Total	C	N	O	S	0	0	0
			2793	1762	504	523	4			

- Molecule 6 is STREPTOLYDIGIN (three-letter code: STD) (formula: C<sub>32</sub>H<sub>44</sub>N<sub>2</sub>O<sub>9</sub>).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	D	1	Total	C	N	O	0	0
			43	32	2	9		
6	M	1	Total	C	N	O	0	0
			43	32	2	9		

- 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		

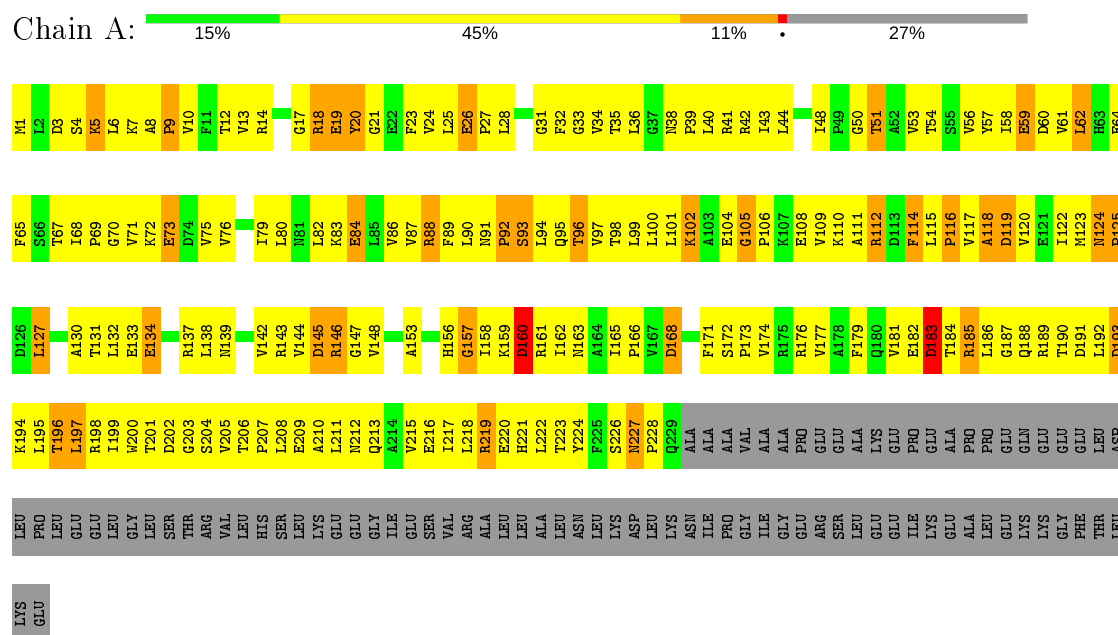
- Molecule 8 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	D	1	Total	Mg	0	0
			1	1		
8	N	1	Total	Mg	0	0
			1	1		

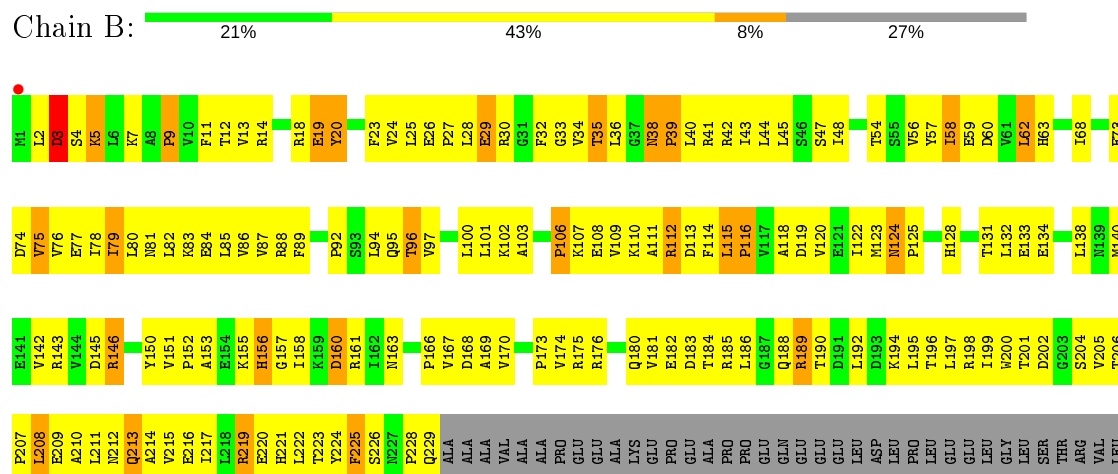
### 3 Residue-property plots [i](#)

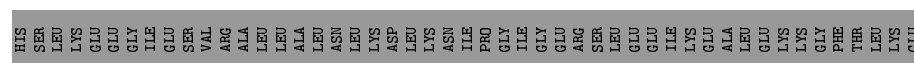
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are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

- Molecule 1: DNA-directed RNA polymerase alpha chain

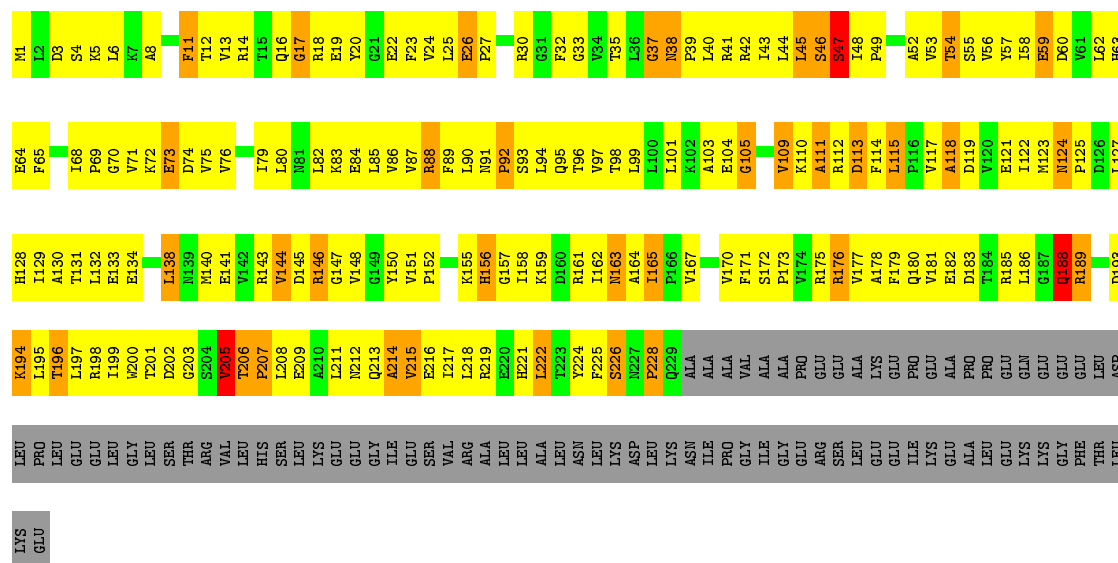
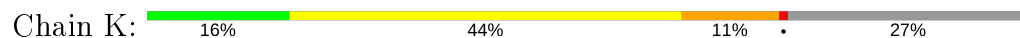


- Molecule 1: DNA-directed RNA polymerase alpha chain

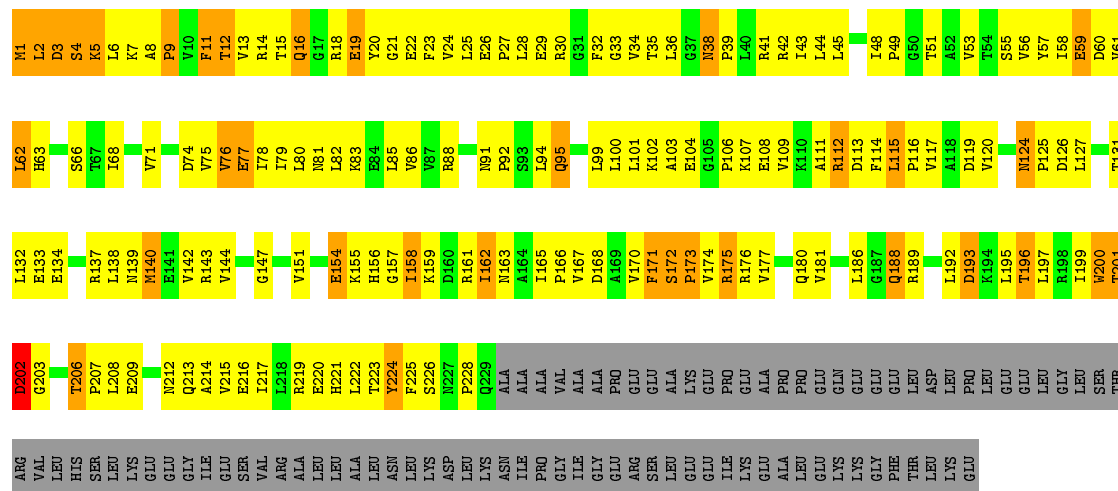
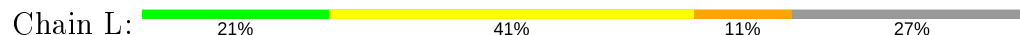




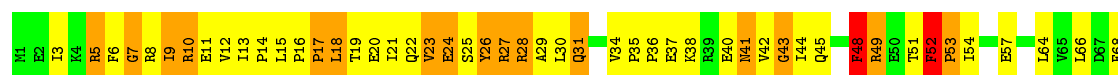
- Molecule 1: DNA-directed RNA polymerase alpha chain



- Molecule 1: DNA-directed RNA polymerase alpha chain

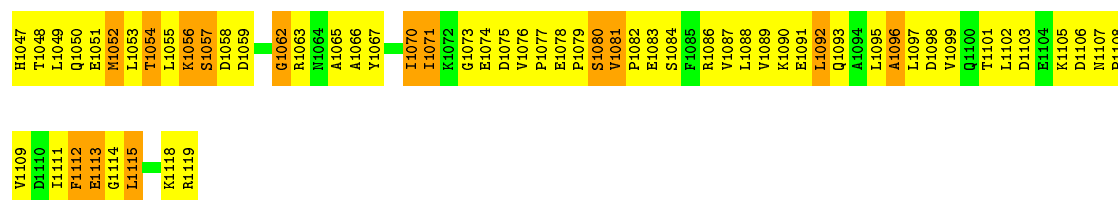


- Molecule 2: DNA-directed RNA polymerase beta chain



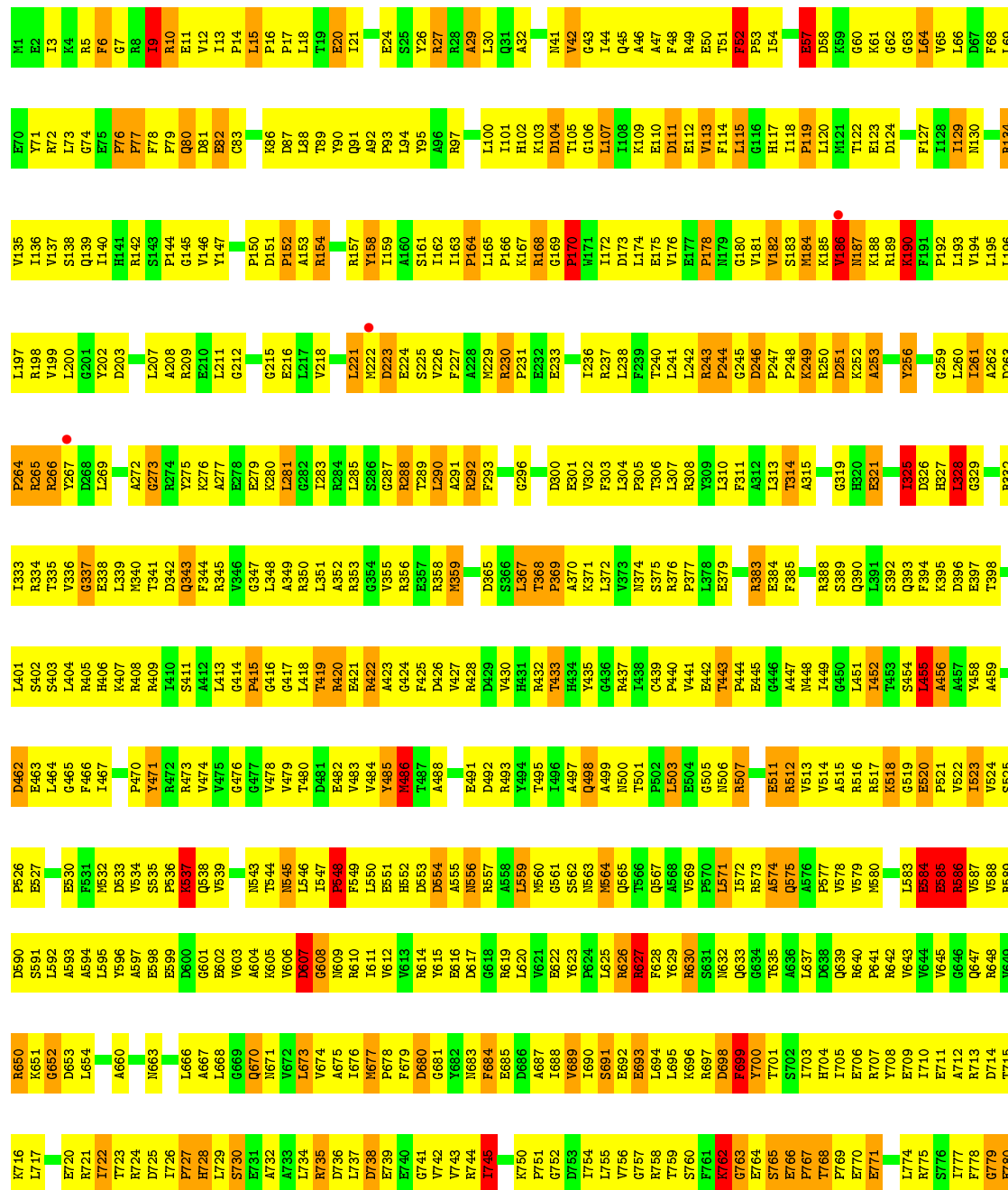






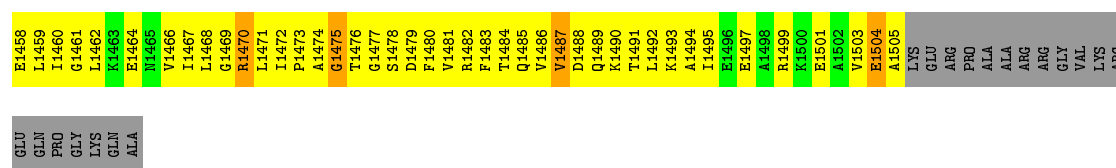
# • Molecule 2: DNA-directed RNA polymerase beta chain

Chain M: 25% 59% 14%

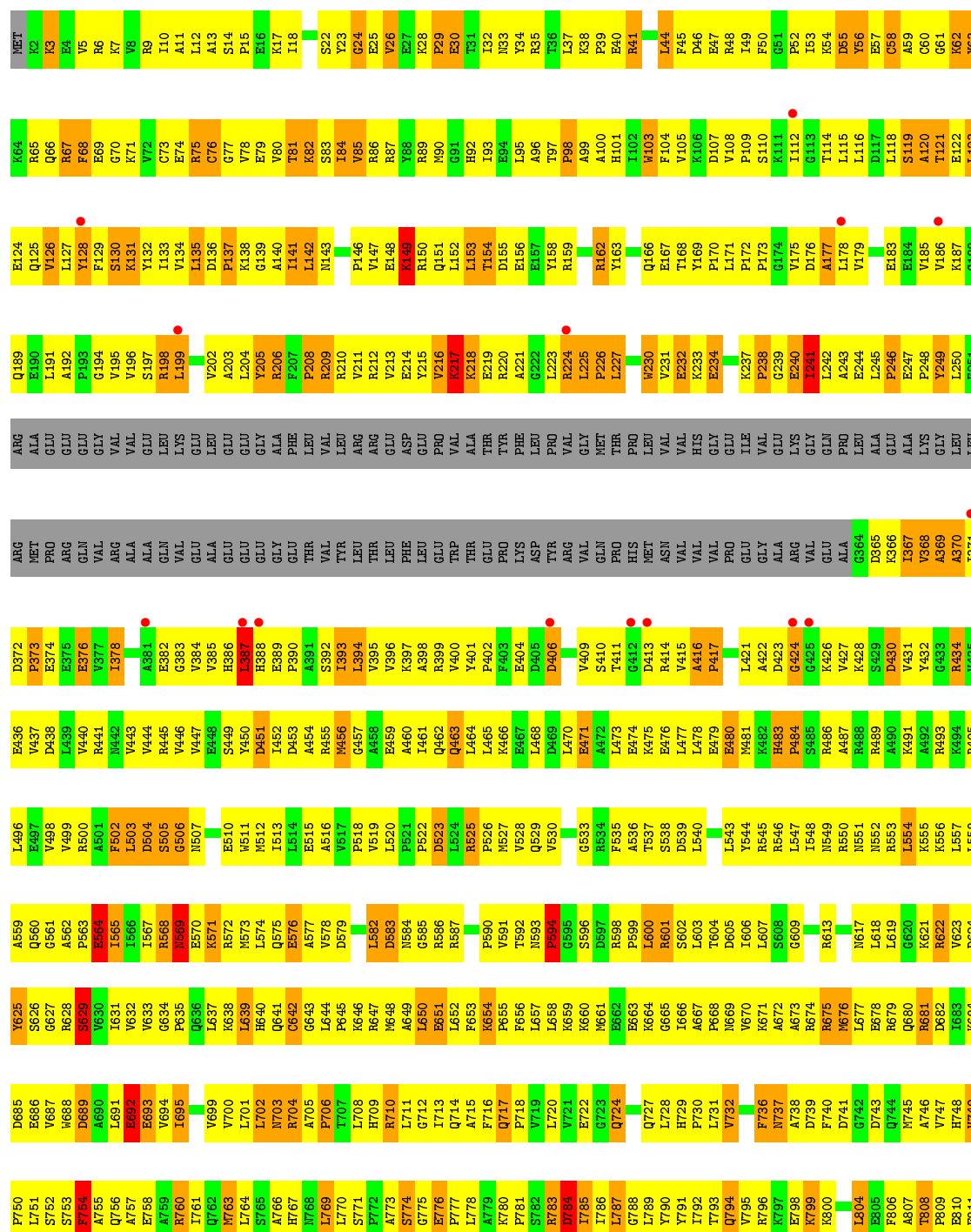




Q1393	T1326	E1264	T1196	L1132	Y1070	F1008	T944	P877		L751	D689	R628	L567	L503
V1394	R1327	A1265	R1197	R1133	F1071	K1009	S945	G878	E817	S752	A690	S629	R568	D604
E1396		L1134	Y1198	L1134	I1072	M1010	G946	R879	G819	S753	E692	I630	N569	
K1397	T1330	R1267	G1199	R1135	S1073		I947	T880	R818	F754	E693	V631	R508	R508
V1398	D1331	P1268	V1200	R1136	H1075	E1013	T948	L881	G819		E693	V632	K571	P509
D1399	P1332	K1269	G1076	R1137	H1075	N1014	I949	F882	V821	A755	V694	V633	R572	E510
	H1333	A1270	A1077		G1076	V1015	G950	A883	A822	A757	I695	G634	M573	M511
	Q1334	K1272	R1078	T1140	R1077	P1016	I951	R884	L823	E758	H696	P635	L574	M512
L1403	L1335	E1141	A1078	E1141	R1078	F1017	D952	R885	R824	A759	G697	Q636	Q575	I513
N1404	L1336		K1079		G1080	M1018	D953	V886	R825	R760	K698	L637	E576	I514
A1405		L1144	G1081	L1144	G1081	P1019	I956	A887	P826	I761	K638	L637	A577	E515
R1406		Y1274	A1082	Y1274	A1082	L1020	P856	E888	R827	Q762	L639	L639	V578	A516
L1407		S1275	G1146	G1146	G1146	Y1021	I957	A889	K828	K763	H640	H640	D579	V517
I1408	P1341	I1277	D1083	R1147	D1083	V1022	E858	V890	V829	L764	L702	Q641	A580	P518
A1409	E1342	D1279	T1084	V1148	T1084	M1023	K960	E891	A830	A766	N703	C642	L581	V519
E1410	A1343	G1279	A1085	L1149	A1085			D892	G831		R704	G643	L582	L520
V1344	V1344	A1150	L1086	A1150	L1086	S1026	Q961	E893	R832	H767	A705	L644	D583	P521
K1412	E1345	V1281	R1087	L1151	R1087	G1027	Q962	K894	E833	N768	P706	P645	N584	P522
T1413	R1346	T1282	T1088	E1152	T1088	A1028	Y963	V895	T834	L769	T707	K646	G585	D623
P1414		T1283		V1153		R1029	L864	A896	S835	L770	L708	R647	R586	L524
V1415	V1349	E1284	G1218	E1154	S1091	G1030	E965	R897	V836	G775	H709	M648	R525	R525
A1416	E1350	E1285	E1219	E1154	G1092	R1031	L964	E898	G837	E776	R838	A649	P526	P526
W1417	E1351	L1156	A1220	V1155	Y1093	M1031	E966	L899	R838	L650	L710	L650	M527	R527
K1418	E1287	T1286	L1221	L1156	L1094	P1032	A967	E897	E837		L711		P590	
	Q1353	E1287	G1222	G1157	T1095	Q1034	Q967	I901	K840	E777		B651	V591	V528
			I1223	V1158	T1095	Q1034	R969	R902	R840	P777	Q714	L652	T592	Q529
			V1224	R1159	R1096	T1035	K970	L932	R841	L778	A715	F653	N593	V830
			A1225	L1160		R1036	L971		R842			K654	P594	
				E1161	V1099	Q1037	L972	Q906	F843		Q717	P655	G595	G533
			S1228	E1162	D1100	L1038	Q973	R908	E907	P781	P716	F656	S596	
			I1229	G1163	V1101	C1039	I974		A844	S782	P718	L657	D597	F535
			G1230	R1165	T1102	G1040	E975		P846	D784	L720	L658	R598	A536
			E1231	T1166	H1103	L1041	Q976		D847	I785		K659	P599	T537
			P1232	L1166	E1104	R1042	A977		E848	I786	G723	K660	S538	S538
			G1233	M1167	I1105	G1043	Y978		A849	L787	Q724	M661	R601	D539
			T1234	M1168	V1106	L1044			L850	G788	S725	E662	S602	L540
			Q1235	P1169	V1107	M1045	G981		L851		I726	E663	L603	N541
			L1236	D1170	R1108	Q1046			A852	Y790	Q727	T604	T604	D542
			T1237	V1171	E1109	K1047	T884		V853	Y791	L728	D605	D605	L543
			M1238	H1172	A1110	P1048	D985		A854	I792	H729	A657	L606	Y544
			R1239	L1173	D1111	S1049	R886		H855	T793	P730	P688	L607	R545
			T1240	L1174	C1112	G1050	E987		G856	Q794	L731	N669	S608	R546
			F1241	L1175	G1113	E1051	R988		I857	V795	V732	V670	G609	L547
			H1242	A1176	T1114	T1052	Y989		V858	R796	C733	K671	K610	I548
			T1243	A1177	T1115	F1053	D990		D859	K797	E734	A672	O611	O549
			G1244	E1178	M1116	E1054	Q991		L860	E798	A735	A673	G612	R550
			G1245	E1179	Y1117	E1055	I992		Q861	K799	F736	R674	R613	N551
			D1251		I1118	P1056	L993		D862	N737	N737	R675	F614	N552
			I1252	E1182	S1119	V1057	Q994		V863	G801	A738	M676	R615	R553
			T1253	Q1184	V1120	R1058	L995		H864	A802	D739	L677	Q616	L554
			Q1254	Q1184	P1121	S1059	W996		T865	G803	F740	E678	M617	
			G1255	P1187	L1122	S1060	T997		V866	L804	D741	R679	L618	L557
			L1256	F1123	F1123	F1061	E998		R867	E805	Q690	Q690	L619	L558
			L1256	Q1124	Q1124	R1062	T999		V868	F806	D743	R681	G620	A589
			P1257	R1189	P1125	E1063	T1000		M869	A807	Q744	D682	K621	Q560
			R1258	R1189	P1125	G1064	E1001		G870	T808	M745	I683	R622	G561
			S1190	P1191	E1127	L1065	K1002		K871	P809	M746	K684	V623	A562
			V1259	P1191	E1127	L1065	K1002		K871	P809	A746	D685	D624	F563
			L1260	L1192	V1128	T1066	V1003		R872		V747	E586	Y625	F564
			E1261	L1193	T1129	V1067	T1004			A812	E743	E586	V625	E564
			L1262	T1193	R1130	L1068	S942			L813	V749	S626	V687	I565
			F1263	Q1195	S1131	E1069	V1007			A814	P750	W688	G627	I566

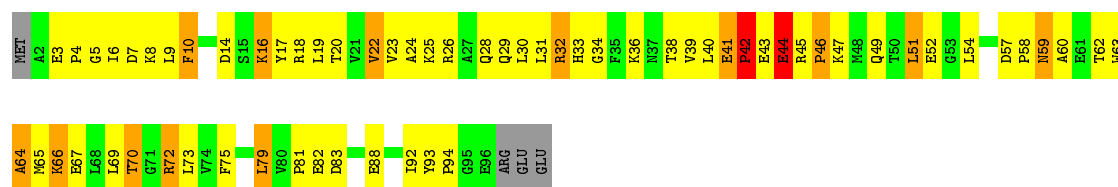


- Molecule 3: DNA-directed RNA polymerase subunit beta' chain

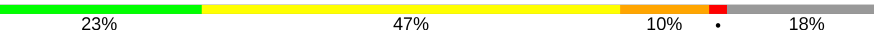


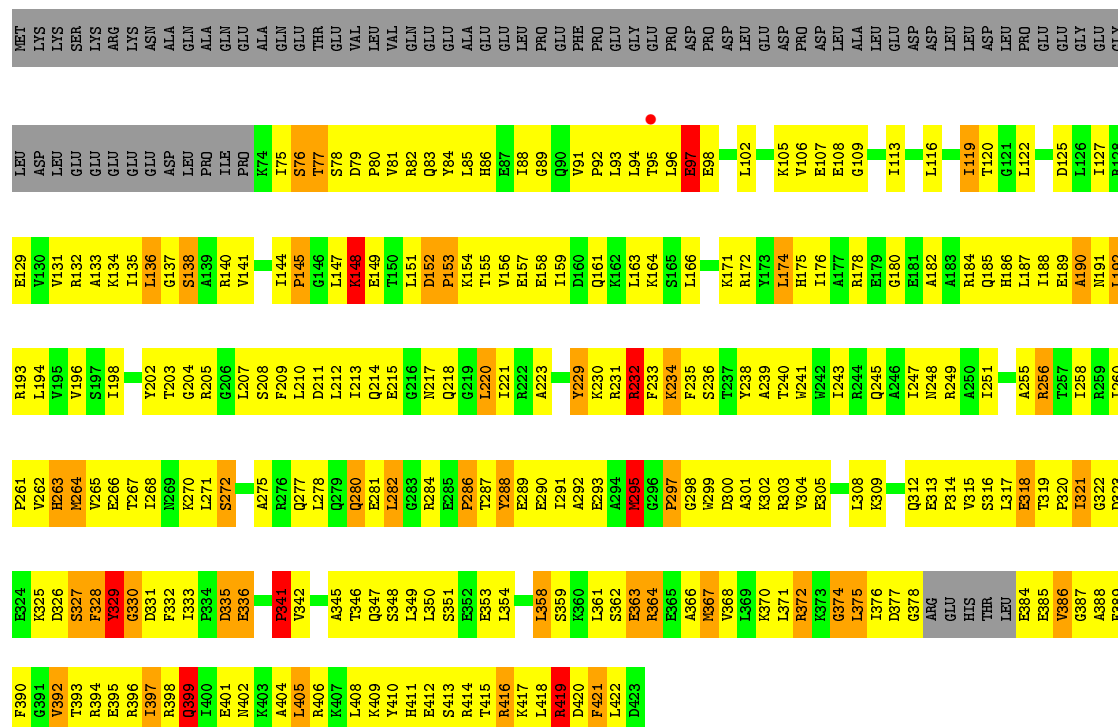


Chain O: 



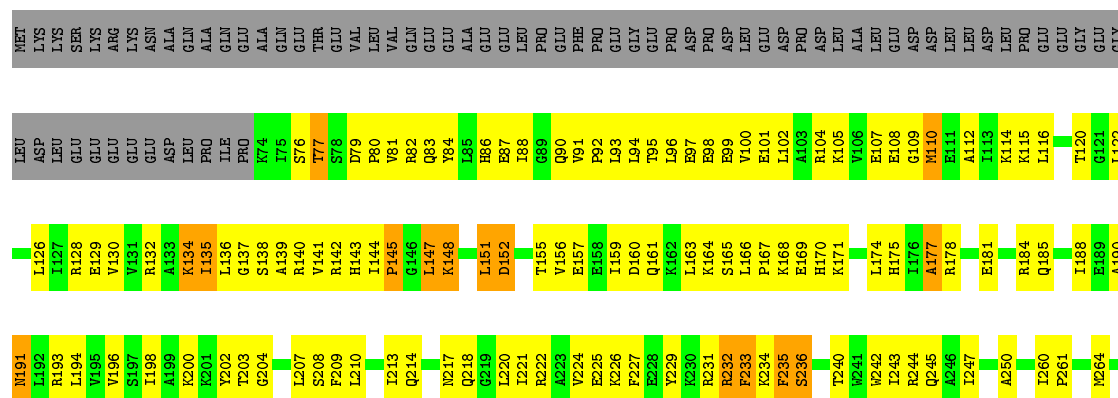
• Molecule 5: DNA-directed RNA polymerase sigma chain

Chain F: 



• Molecule 5: DNA-directed RNA polymerase sigma chain

Chain P: 



R386	R396	D385	T267
R397		E336	
R398		E337	L271
R399		L338	S272
T400		P339	R273
E401		S340	T274
M402		P341	A275
K403		V342	R276
A404		D343	Q277
L405		A344	L278
R406		A345	Q279
K407		T346	Q280
L408		Q347	E281
K409		S348	L282
Y410		L349	G283
L411		R350	R284
		S351	E285
R414		E352	E286
T415		E353	T287
R416		L354	Y288
K417		E355	E289
L418		K356	E290
R419		A357	L291
D420		L358	
P421		S359	M295
L422		K360	G296
D423		L361	P297
		S362	G298
		E363	L299
		R364	D300
		E365	A301
		A366	K302
		M367	R303
		V368	V304
		L369	E305
		K370	E306
		L371	T307
		R372	L308
		K373	K309
		G374	L310
		L375	
		L376	P314
		D377	V315
		G378	S316
		ARG	L317
		GLU	E318
		HIS	T319
		THR	P320
		LEU	I321
		E384	G322
		E385	D323
		P386	E324
		G387	K325
		A388	D326
		F389	
			Y329
			F332
			L333
			D334



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	237.00Å 237.00Å 250.00Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.00 – 3.00 29.89 – 3.00	Depositor EDS
% Data completeness (in resolution range)	77.9 (30.00-3.00) 42.8 (29.89-3.00)	Depositor EDS
$R_{merge}$	0.12	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.12 (at 3.00Å)	Xtriage
Refinement program	CNS	Depositor
R, $R_{free}$	0.261 , 0.281 0.258 , (Not available)	Depositor DCC
$R_{free}$ test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	71.1	Xtriage
Anisotropy	0.354	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.23 , -24.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.44$ , $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	0.499 for -h,-k,l 0.499 for h,-h-k,-l 0.044 for -k,-h,-l	Xtriage
$F_o, F_c$ correlation	0.91	EDS
Total number of atoms	54048	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	71.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.81% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

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

## 5 Model quality

### 5.1 Standard geometry

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

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	A	0.43	0/1838	0.76	0/2498
1	B	0.38	0/1838	0.64	0/2498
1	K	0.46	0/1838	0.75	0/2498
1	L	0.39	0/1838	0.66	0/2498
2	C	0.45	0/8997	0.76	5/12164 (0.0%)
2	M	0.44	0/8997	0.76	5/12164 (0.0%)
3	D	0.46	0/11165	0.78	13/15088 (0.1%)
3	N	0.45	0/11165	0.78	14/15088 (0.1%)
4	E	0.40	0/783	0.77	2/1054 (0.2%)
4	O	0.44	0/783	0.82	1/1054 (0.1%)
5	F	0.41	0/2836	0.70	1/3812 (0.0%)
5	P	0.41	0/2836	0.69	0/3812
All	All	0.44	0/54914	0.76	41/74228 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	C	0	1
3	D	0	1
3	N	0	1
All	All	0	3

There are no bond length outliers.

All (41) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	81	THR	N-CA-C	-7.96	89.51	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	M	728	HIS	N-CA-C	7.59	131.49	111.00
4	O	49	GLN	N-CA-C	7.23	130.53	111.00
3	N	1209	LEU	N-CA-C	-7.22	91.50	111.00
3	D	1209	LEU	N-CA-C	-7.04	92.00	111.00
3	N	1420	LEU	CA-CB-CG	6.81	130.96	115.30
2	C	729	LEU	N-CA-C	6.39	128.24	111.00
3	N	1239	ARG	N-CA-C	6.36	128.16	111.00
2	C	319	GLY	N-CA-C	-6.35	97.22	113.10
2	C	728	HIS	N-CA-C	6.11	127.49	111.00
2	M	319	GLY	N-CA-C	-6.10	97.86	113.10
3	N	198	ARG	N-CA-C	6.07	127.38	111.00
4	E	49	GLN	N-CA-C	6.00	127.20	111.00
3	D	380	GLU	N-CA-C	-5.99	94.82	111.00
3	D	554	LEU	CA-CB-CG	5.97	129.03	115.30
2	C	591	SER	N-CA-C	-5.96	94.89	111.00
3	N	1127	GLU	N-CA-C	-5.95	94.93	111.00
3	D	1043	GLY	N-CA-C	5.92	127.91	113.10
3	N	1204	CYS	CA-CB-SG	5.76	124.37	114.00
3	D	1068	LEU	CA-CB-CG	-5.60	102.42	115.30
2	M	243	ARG	N-CA-C	5.58	126.07	111.00
3	D	1110	ALA	N-CA-C	-5.57	95.97	111.00
2	M	608	GLY	N-CA-C	-5.53	99.28	113.10
3	D	198	ARG	N-CA-C	5.46	125.74	111.00
3	N	804	LEU	CA-CB-CG	5.46	127.86	115.30
3	N	1128	VAL	N-CA-C	-5.45	96.28	111.00
3	D	208	PRO	N-CA-C	5.42	126.20	112.10
3	D	1239	ARG	N-CA-C	5.40	125.58	111.00
3	D	209	ARG	N-CA-C	5.33	125.39	111.00
5	F	358	LEU	CA-CB-CG	5.33	127.56	115.30
3	D	581	LEU	CA-CB-CG	5.30	127.49	115.30
3	N	1043	GLY	N-CA-C	5.28	126.31	113.10
4	E	51	LEU	N-CA-C	-5.25	96.84	111.00
3	D	723	GLY	N-CA-C	5.24	126.19	113.10
3	N	1110	ALA	N-CA-C	-5.23	96.89	111.00
3	N	81	THR	N-CA-C	-5.19	96.98	111.00
2	M	455	LEU	CA-CB-CG	5.18	127.22	115.30
3	N	1116	ASN	N-CA-C	-5.13	97.14	111.00
2	C	417	GLY	N-CA-C	-5.09	100.37	113.10
3	N	1064	GLY	N-CA-C	5.06	125.75	113.10
3	N	1389	LEU	N-CA-C	5.04	124.60	111.00

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	C	258	TYR	Sidechain
3	D	132	TYR	Sidechain
3	N	625	TYR	Sidechain

## 5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1806	0	1861	279	0
1	B	1806	0	1861	211	0
1	K	1806	0	1861	232	0
1	L	1806	0	1861	210	0
2	C	8829	0	8933	1148	0
2	M	8829	0	8933	1178	0
3	D	10975	0	11213	1653	0
3	N	10975	0	11212	1616	0
4	E	769	0	775	99	0
4	O	769	0	775	87	0
5	F	2793	0	2873	320	0
5	P	2793	0	2873	362	0
6	D	43	0	44	10	0
6	M	43	0	44	8	0
7	D	2	0	0	0	0
7	N	2	0	0	0	0
8	D	1	0	0	0	0
8	N	1	0	0	0	0
All	All	54048	0	55119	6892	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 63.

All (6892) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:673:LEU:HD23	2:C:867:VAL:HA	1.22	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:172:PRO:HB3	3:N:178:LEU:HD22	1.22	1.16
3:D:141:ILE:H	3:D:141:ILE:HD12	1.11	1.16
2:C:857:ASP:HB2	2:C:978:ARG:HG2	1.29	1.15
3:D:1304:LYS:H	3:D:1304:LYS:HD3	1.03	1.15
5:P:120:THR:HG22	5:P:122:LEU:HD13	1.24	1.14
3:D:1062:ARG:HG3	3:D:1062:ARG:HH11	1.12	1.14
3:N:44:LEU:HB3	3:N:525:ARG:NH2	1.63	1.13
3:D:205:TYR:HB3	3:D:393:ILE:HD13	1.31	1.11
3:D:1262:LEU:HD23	3:D:1352:ILE:HG13	1.17	1.11
5:F:161:GLN:HA	5:F:164:LYS:HE2	1.28	1.11
2:C:263:ASP:HB2	2:C:264:PRO:HD3	1.27	1.11
2:C:460:ARG:HD3	2:C:485:TYR:HE2	1.14	1.11
2:C:1016:ILE:HD13	2:C:1016:ILE:H	1.09	1.11
3:D:108:VAL:HB	3:D:109:PRO:HD3	1.27	1.11
3:D:44:LEU:HB3	3:D:525:ARG:HH21	1.08	1.11
3:D:1223:ILE:HD12	3:D:1223:ILE:H	1.07	1.10
3:N:809:PRO:HB2	3:N:812:ALA:HB2	1.32	1.10
3:D:186:VAL:HG13	3:D:187:LYS:H	1.17	1.09
2:M:432:ARG:HH22	3:N:1047:LYS:HD3	1.16	1.09
4:O:54:LEU:HG	4:O:58:PRO:HG2	1.31	1.09
3:N:1109:GLU:HG2	3:N:1202:GLN:H	1.07	1.09
3:D:584:ASN:HD21	3:D:590:PRO:HD2	1.03	1.09
3:D:1277:ILE:HG22	3:D:1278:ASP:H	1.19	1.08
1:A:42:ARG:HH12	2:C:857:ASP:HB3	1.16	1.08
3:N:1147:ARG:HB3	3:N:1188:VAL:HG21	1.28	1.08
3:N:187:LYS:HE2	3:N:213:VAL:HG12	1.30	1.08
1:A:197:LEU:HD23	1:A:197:LEU:H	1.12	1.07
3:D:197:SER:HB3	3:D:203:ALA:HB3	1.31	1.07
2:C:537:LYS:HA	2:C:545:ASN:HD21	1.16	1.07
3:D:95:LEU:HD11	3:D:517:VAL:HG23	1.35	1.07
3:D:493:ARG:HH21	3:D:1389:LEU:HD21	1.18	1.07
2:M:139:GLN:HE22	2:M:415:PRO:HD3	1.17	1.07
3:N:785:ILE:HD12	3:N:785:ILE:H	1.19	1.07
2:M:183:SER:HB2	2:M:190:LYS:HG2	1.32	1.07
3:N:692:GLU:HG2	3:N:720:LEU:HD12	1.32	1.07
3:D:1433:SER:HB2	3:D:1457:ASP:OD2	1.54	1.06
3:D:907:GLU:HG2	3:D:908:LYS:H	1.00	1.06
2:M:1016:ILE:HD13	2:M:1016:ILE:H	1.19	1.06
3:D:145:VAL:HG22	3:D:146:PRO:HD2	1.29	1.06
2:C:987:ILE:HG23	3:D:948:THR:HG21	1.37	1.06
3:N:148:GLU:HB3	3:N:151:GLN:HB2	1.32	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1258:ARG:HH21	3:N:1351:GLU:HG2	1.15	1.06
3:D:584:ASN:ND2	3:D:590:PRO:HD2	1.70	1.06
2:M:691:SER:HB2	2:M:858:MET:SD	1.94	1.06
3:N:715:ALA:HB3	3:N:764:LEU:HA	1.33	1.05
5:P:361:LEU:HD21	5:P:408:LEU:HB2	1.38	1.04
2:C:602:GLU:HG2	2:C:603:VAL:H	1.20	1.04
2:C:906:PHE:CD1	3:D:1067:VAL:HG22	1.92	1.04
3:D:387:LEU:HD13	5:F:97:GLU:HB2	1.37	1.04
2:M:650:ARG:H	2:M:650:ARG:HD3	1.14	1.03
3:D:425:GLY:O	3:D:427:VAL:HG23	1.58	1.03
5:F:392:VAL:HG11	5:F:396:ARG:HD3	1.38	1.03
2:M:325:ILE:HD12	2:M:325:ILE:H	1.18	1.03
3:N:119:SER:H	3:N:123:LEU:HD12	1.24	1.02
3:D:116:LEU:HB3	3:D:118:LEU:HD13	1.40	1.02
1:A:43:ILE:HD11	1:B:35:THR:HG21	1.40	1.02
3:D:543:LEU:HD22	3:D:580:ALA:HB1	1.41	1.02
2:C:889:HIS:HE1	3:D:951:ILE:H	1.06	1.02
3:D:119:SER:HB2	3:D:123:LEU:N	1.73	1.02
2:M:86:LYS:HG3	2:M:813:VAL:HG12	1.37	1.02
3:N:136:ASP:HB3	3:N:137:PRO:HD3	1.40	1.02
2:C:902:ILE:HG22	2:C:904:PRO:HD3	1.38	1.02
2:C:34:VAL:HB	2:C:38:LYS:HG3	1.41	1.02
3:D:1201:CYS:SG	3:D:1204:CYS:HB2	2.01	1.01
3:N:984:THR:HG22	3:N:987:GLU:HB2	1.41	1.01
2:C:516:ARG:CZ	3:D:1068:LEU:HD22	1.89	1.01
2:C:265:ARG:HG3	2:C:288:ARG:HG3	1.43	1.00
3:N:654:LYS:HB3	3:N:655:PRO:HD3	1.43	1.00
3:D:131:LYS:HG3	3:D:568:ARG:HG2	1.43	1.00
4:E:23:VAL:HG21	4:E:65:MET:HG2	1.42	1.00
1:B:86:VAL:N	1:B:124:ASN:HD22	1.60	1.00
2:C:966:LEU:HD21	2:C:986:PRO:HG2	1.43	1.00
1:A:35:THR:HG21	1:B:43:ILE:HD11	1.44	0.99
3:D:654:LYS:HB3	3:D:655:PRO:HD3	1.43	0.99
3:N:368:VAL:HG22	3:N:369:ALA:H	1.26	0.99
3:D:1129:THR:HG23	3:D:1130:ARG:H	1.25	0.99
1:K:86:VAL:HG12	1:K:124:ASN:ND2	1.78	0.99
2:M:512:ARG:HG2	2:M:523:ILE:HD11	1.41	0.99
2:M:172:ILE:HD12	2:M:172:ILE:H	1.27	0.99
3:N:1213:ARG:HB2	3:N:1214:PRO:HD2	1.43	0.99
3:N:133:ILE:HG21	3:N:454:ALA:HB1	1.44	0.99
3:D:969:ARG:HB3	3:D:969:ARG:HH11	1.22	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:THR:HB	1:A:209:GLU:HG3	1.43	0.99
3:N:423:ASP:HB2	5:P:178:ARG:HB2	1.44	0.99
1:B:206:THR:HB	1:B:209:GLU:HG3	1.43	0.99
4:E:54:LEU:HA	4:E:58:PRO:HG2	1.41	0.99
3:D:1273:VAL:HG22	3:D:1326:THR:OG1	1.62	0.99
2:M:693:GLU:HA	2:M:696:LYS:HD2	1.44	0.98
2:C:413:LEU:HD12	2:C:413:LEU:H	1.25	0.98
2:C:1054:THR:HG22	2:C:1059:ASP:HB2	1.41	0.98
1:K:150:TYR:HE2	1:K:152:PRO:HG3	1.26	0.98
3:N:781:PRO:HB2	3:N:911:LEU:HD23	1.46	0.98
3:N:1065:LEU:HD23	3:N:1070:TYR:HD2	1.29	0.98
5:P:129:GLU:HB3	5:P:142:ARG:HH22	1.29	0.98
3:N:621:LYS:O	3:N:622:ARG:HG3	1.62	0.98
3:N:1277:ILE:HG22	3:N:1278:ASP:H	1.24	0.98
2:M:470:PRO:HB2	2:M:534:VAL:HG21	1.44	0.97
5:P:406:ARG:HA	5:P:409:LYS:HG2	1.46	0.97
2:C:480:THR:HG22	2:C:482:GLU:H	1.27	0.97
2:C:658:GLY:H	2:C:661:SER:HB2	1.27	0.97
2:M:1097:LEU:HD23	3:N:10:ILE:HD13	1.46	0.97
2:C:368:THR:HB	2:C:369:PRO:HD3	1.47	0.97
2:M:1031:ARG:HH11	3:N:619:LEU:HD22	1.29	0.97
2:C:474:VAL:HG11	2:C:529:VAL:HG12	1.44	0.97
3:D:1432:LYS:HD2	3:D:1433:SER:H	1.30	0.97
2:C:183:SER:HB3	2:C:190:LYS:HD3	1.47	0.97
3:D:162:ARG:HG3	3:D:163:TYR:H	1.30	0.97
5:F:386:VAL:HG13	5:F:387:GLY:H	1.27	0.97
2:M:352:ALA:HA	2:M:355:VAL:HG12	1.44	0.97
3:D:907:GLU:HG2	3:D:908:LYS:N	1.79	0.96
5:F:88:ILE:HD13	5:F:193:ARG:HB2	1.46	0.96
3:N:387:LEU:HD12	5:P:96:LEU:HB2	1.45	0.96
3:N:1189:ARG:HH21	3:N:1203:LYS:HB2	1.30	0.96
2:C:627:ARG:HG3	2:C:628:PHE:H	1.31	0.96
1:B:5:LYS:HA	1:B:5:LYS:HE3	1.44	0.96
3:D:378:ILE:H	3:D:378:ILE:HD13	1.28	0.96
2:M:629:TYR:HB2	2:M:637:LEU:HD11	1.44	0.95
1:A:62:LEU:HD12	1:A:62:LEU:H	1.31	0.95
3:N:736:PHE:HD1	3:N:736:PHE:H	1.11	0.95
2:C:443:THR:HG21	2:C:450:GLY:H	1.30	0.95
5:P:88:ILE:HD13	5:P:193:ARG:HB2	1.47	0.95
3:D:136:ASP:HB3	3:D:137:PRO:CD	1.96	0.95
2:C:460:ARG:HD3	2:C:485:TYR:CE2	2.01	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:705:ALA:HB3	3:N:706:PRO:HD3	1.44	0.95
3:D:477:LEU:HA	3:D:480:GLU:HB3	1.45	0.95
2:M:129:ILE:HG22	2:M:130:ASN:N	1.81	0.95
3:D:422:ALA:HB3	3:D:427:VAL:HG22	1.45	0.95
3:D:141:ILE:HD11	3:D:450:TYR:H	1.30	0.95
5:F:350:LEU:HD12	5:F:422:LEU:HD12	1.47	0.95
5:F:77:THR:O	5:F:81:VAL:HG23	1.66	0.95
2:M:265:ARG:HG3	2:M:288:ARG:HG3	1.49	0.94
5:F:79:ASP:HB3	5:F:80:PRO:HD3	1.47	0.94
3:D:528:VAL:HG23	3:D:536:ALA:HB3	1.48	0.94
3:D:908:LYS:HB2	3:D:1027:GLY:HA3	1.49	0.94
5:F:393:THR:HG22	5:F:394:ARG:H	1.31	0.94
2:M:18:LEU:HA	2:M:408:ARG:NH2	1.82	0.94
3:N:26:VAL:HG11	3:N:44:LEU:HD23	1.48	0.93
2:C:22:GLN:HE22	2:C:336:VAL:HG21	1.30	0.93
3:D:520:LEU:HD12	3:D:521:PRO:HD2	1.51	0.93
1:A:124:ASN:OD1	1:A:127:LEU:HB3	1.67	0.93
2:M:1060:ILE:HG13	2:M:1083:GLU:HG3	1.51	0.93
2:M:250:ARG:HB3	2:M:253:ALA:HB2	1.51	0.93
2:C:115:LEU:H	2:C:115:LEU:HD23	1.34	0.93
3:D:1101:VAL:HG22	3:D:1428:ALA:HB2	1.47	0.93
3:N:1393:GLN:HB2	3:N:1398:TRP:HE1	1.31	0.93
2:C:537:LYS:HA	2:C:545:ASN:ND2	1.84	0.93
3:N:441:ARG:HB3	3:N:443:VAL:HG23	1.51	0.93
3:D:1152:GLU:H	3:D:1162:GLU:HB2	1.30	0.92
3:D:400:VAL:HA	3:D:442:ASN:O	1.70	0.92
1:A:90:LEU:HD12	1:A:119:ASP:HA	1.51	0.92
3:N:1109:GLU:HG2	3:N:1202:GLN:N	1.84	0.92
1:A:91:ASN:OD1	1:A:92:PRO:HD2	1.69	0.92
2:M:415:PRO:HB2	2:M:418:LEU:HD23	1.50	0.92
3:N:141:ILE:HG22	3:N:142:LEU:H	1.34	0.92
3:D:234:GLU:HB3	3:D:240:GLU:HB2	1.52	0.92
2:M:1111:ILE:HG13	2:M:1112:PHE:HD1	1.35	0.92
2:M:30:LEU:HD12	2:M:30:LEU:O	1.69	0.92
3:N:385:VAL:HG22	5:P:232:ARG:HH12	1.35	0.92
5:F:136:LEU:HD12	5:F:137:GLY:H	1.34	0.92
2:M:889:HIS:HE1	3:N:951:ILE:H	1.18	0.92
1:A:18:ARG:HH12	1:A:88:ARG:NE	1.67	0.92
3:D:1264:GLU:HG2	3:D:1266:ARG:CZ	1.98	0.92
1:K:206:THR:HG22	1:K:209:GLU:H	1.32	0.92
3:N:1018:ASN:O	3:N:1022:VAL:HG23	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:668:PRO:HD2	3:N:672:ALA:HB1	1.51	0.92
3:D:565:ILE:HD12	3:D:565:ILE:H	1.35	0.92
2:C:575:GLN:H	2:C:667:ALA:HB1	1.33	0.92
2:C:689:VAL:HG12	2:C:851:LYS:HB3	1.52	0.92
3:D:218:LYS:HZ3	3:D:370:ALA:HA	1.33	0.92
5:P:386:VAL:HG22	5:P:394:ARG:HG2	1.51	0.92
1:B:152:PRO:HD2	1:B:155:LYS:HD2	1.51	0.91
2:C:21:ILE:HD12	2:C:21:ILE:H	1.33	0.91
2:M:129:ILE:HG22	2:M:130:ASN:H	1.33	0.91
3:D:119:SER:HB2	3:D:123:LEU:H	1.30	0.91
3:D:902:LEU:HD23	3:D:902:LEU:H	1.35	0.91
2:M:478:VAL:HG13	2:M:506:ASN:HB3	1.48	0.91
3:D:1389:LEU:H	3:D:1389:LEU:HD23	1.36	0.91
3:D:877:PRO:O	3:D:880:ILE:HG22	1.71	0.91
1:K:86:VAL:H	1:K:124:ASN:HD22	1.16	0.91
3:D:570:GLU:HB2	5:F:214:GLN:NE2	1.84	0.91
3:N:809:PRO:HB2	3:N:812:ALA:CB	2.01	0.91
3:D:1262:LEU:HD23	3:D:1352:ILE:CG1	2.02	0.90
2:C:889:HIS:CE1	3:D:951:ILE:H	1.88	0.90
2:M:737:LEU:HD22	2:M:741:GLY:O	1.69	0.90
2:M:77:PRO:HD3	2:M:93:PRO:HD3	1.53	0.90
2:C:524:VAL:HG22	2:C:525:SER:H	1.36	0.90
3:D:907:GLU:CG	3:D:908:LYS:H	1.85	0.90
5:F:271:LEU:HD22	5:F:291:ILE:HD11	1.54	0.90
5:F:361:LEU:HD11	5:F:408:LEU:HD12	1.50	0.90
3:N:1084:THR:HG22	3:N:1087:ARG:NH2	1.86	0.90
3:D:1381:VAL:HB	3:D:1389:LEU:O	1.71	0.90
2:M:1052:MET:HE3	3:N:623:VAL:HG21	1.53	0.90
1:A:201:THR:HG22	1:A:203:GLY:H	1.35	0.90
2:C:289:THR:HG22	2:C:290:LEU:HD23	1.51	0.90
3:D:1280:VAL:HG12	3:D:1281:VAL:H	1.34	0.90
2:M:176:VAL:HG12	2:M:182:VAL:HG13	1.51	0.90
3:N:792:ILE:HD11	3:N:881:LEU:HD23	1.53	0.90
3:D:175:VAL:HG13	3:D:217:LYS:HG2	1.51	0.90
3:N:179:VAL:HG11	3:N:217:LYS:HZ1	1.37	0.90
3:N:644:LEU:HD12	3:N:645:PRO:HD2	1.54	0.90
2:C:110:GLU:HG2	2:C:369:PRO:HG3	1.54	0.90
2:M:987:ILE:HG23	3:N:948:THR:HG21	1.53	0.90
2:M:157:ARG:HD2	2:M:314:THR:HG22	1.52	0.90
3:N:139:GLY:O	3:N:147:VAL:HG22	1.71	0.90
1:B:151:VAL:H	1:B:169:ALA:HB3	1.34	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:86:VAL:H	1:B:124:ASN:ND2	1.70	0.89
1:A:133:GLU:OE2	2:C:605:LYS:HE2	1.72	0.89
2:C:690:ILE:HB	2:C:852:ILE:HD13	1.54	0.89
3:D:62:LYS:HD2	3:D:63:TYR:CE1	2.08	0.89
3:N:1258:ARG:CZ	3:N:1262:LEU:HD11	2.03	0.89
4:E:54:LEU:HA	4:E:58:PRO:CG	2.03	0.89
3:N:1114:THR:HG22	3:N:1116:ASN:ND2	1.87	0.89
3:N:119:SER:HB2	3:N:123:LEU:H	1.36	0.89
5:F:321:ILE:HD13	5:F:322:GLY:N	1.88	0.89
2:M:516:ARG:NE	3:N:1068:LEU:HD13	1.88	0.89
1:B:86:VAL:HG12	1:B:124:ASN:ND2	1.88	0.89
1:K:175:ARG:HE	1:K:202:ASP:HA	1.38	0.89
2:M:89:THR:HA	2:M:129:ILE:O	1.73	0.89
2:M:1000:MET:HE3	2:M:1001:VAL:HG13	1.55	0.89
2:M:368:THR:HB	2:M:369:PRO:HD3	1.55	0.89
3:N:675:ARG:O	3:N:678:GLU:HG2	1.73	0.88
1:A:27:PRO:HG2	1:A:186:LEU:HD22	1.54	0.88
1:B:23:PHE:HE1	1:B:208:LEU:HD22	1.37	0.88
3:D:1220:ALA:HB1	3:D:1223:ILE:HD13	1.52	0.88
3:D:1086:LEU:HA	6:D:1525:STD:H32	1.55	0.88
3:N:1389:LEU:H	3:N:1389:LEU:HD23	1.35	0.88
2:C:874:LEU:HD12	3:D:784:ASP:OD2	1.73	0.88
3:D:1231:GLU:HB3	3:D:1232:PRO:HD3	1.54	0.88
2:M:290:LEU:HD23	2:M:290:LEU:H	1.38	0.88
5:P:94:LEU:HD12	5:P:97:GLU:H	1.38	0.88
2:C:1071:ILE:HD11	3:D:655:PRO:HB3	1.56	0.88
2:C:516:ARG:NH2	3:D:1068:LEU:HB3	1.89	0.88
3:D:44:LEU:HB3	3:D:525:ARG:NH2	1.87	0.88
2:M:146:VAL:HG12	2:M:162:ILE:HA	1.53	0.88
2:M:279:GLU:HG3	2:M:280:LYS:HG3	1.54	0.88
2:M:926:PHE:HE2	2:M:960:GLU:HG3	1.38	0.88
3:D:1223:ILE:CD1	3:D:1223:ILE:H	1.85	0.88
2:M:15:LEU:HD12	2:M:15:LEU:H	1.36	0.88
3:N:591:VAL:HA	3:N:600:LEU:HD21	1.56	0.88
1:B:23:PHE:CE1	1:B:208:LEU:HD22	2.09	0.87
2:M:1031:ARG:NH1	3:N:619:LEU:HD22	1.89	0.87
3:N:1197:ARG:CD	3:N:1396:GLU:HB2	2.05	0.87
3:N:141:ILE:H	3:N:141:ILE:HD12	1.38	0.87
1:L:154:GLU:OE1	3:N:840:LYS:HG3	1.73	0.87
3:N:1101:VAL:HG11	3:N:1424:VAL:HG23	1.55	0.87
2:C:516:ARG:NE	3:D:1068:LEU:HD13	1.90	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1078:ARG:HH11	3:N:1078:ARG:HB3	1.39	0.87
2:M:139:GLN:HE22	2:M:415:PRO:CD	1.86	0.87
3:N:422:ALA:HB3	3:N:427:VAL:HG22	1.56	0.87
5:P:129:GLU:HB3	5:P:142:ARG:NH2	1.88	0.87
3:N:187:LYS:CE	3:N:213:VAL:HG12	2.05	0.87
3:N:18:ILE:HG23	3:N:518:PRO:HG3	1.57	0.87
3:N:794:GLN:NE2	3:N:795:VAL:H	1.73	0.87
2:C:1096:ALA:HB2	3:D:514:LEU:HD21	1.57	0.87
2:M:775:ARG:HB3	2:M:780:GLU:HA	1.56	0.87
5:F:151:LEU:HB2	5:F:155:THR:H	1.39	0.87
3:D:127:LEU:HD22	3:D:134:VAL:HG21	1.57	0.86
3:N:60:CYS:SG	3:N:61:GLY:N	2.48	0.86
1:A:123:MET:C	1:A:125:PRO:HD3	1.96	0.86
3:D:1379:VAL:HG11	3:D:1395:LEU:HD23	1.57	0.86
3:D:221:ALA:HB3	3:D:367:ILE:HB	1.56	0.86
2:M:266:ARG:O	2:M:272:ALA:HB3	1.73	0.86
3:N:984:THR:CG2	3:N:987:GLU:HB2	2.04	0.86
5:P:135:ILE:HD11	5:P:178:ARG:HB3	1.57	0.86
2:C:292:ARG:HH11	2:C:299:LYS:HD3	1.40	0.86
2:M:145:GLY:HA3	2:M:276:LYS:HD2	1.56	0.86
2:C:568:ALA:HB3	2:C:668:LEU:HD22	1.58	0.86
3:D:1304:LYS:N	3:D:1304:LYS:HD3	1.86	0.86
3:D:212:ARG:HD2	3:D:445:ARG:HH22	1.38	0.86
2:M:188:LYS:HD3	2:M:189:ARG:N	1.90	0.86
2:C:1021:LEU:HD22	5:F:331:ASP:O	1.76	0.86
2:M:1009:SER:HB2	3:N:651:GLU:OE1	1.75	0.86
1:B:103:ALA:HB1	1:B:107:LYS:HD3	1.58	0.86
3:D:1326:THR:HG22	3:D:1327:ARG:H	1.37	0.86
3:D:798:GLU:HG2	3:D:799:LYS:H	1.40	0.86
1:K:91:ASN:OD1	1:K:92:PRO:HD2	1.76	0.86
2:M:605:LYS:HB2	2:M:610:ARG:HH12	1.41	0.86
4:E:54:LEU:HG	4:E:58:PRO:HG2	1.57	0.85
3:N:799:LYS:HD2	3:N:799:LYS:O	1.74	0.85
2:M:266:ARG:H	2:M:266:ARG:HD2	1.41	0.85
2:C:1095:LEU:O	2:C:1097:LEU:N	2.08	0.85
3:D:659:LYS:HE3	3:D:663:GLU:OE1	1.77	0.85
3:D:945:SER:OG	3:D:947:ILE:HG23	1.76	0.85
2:C:516:ARG:NH1	3:D:1068:LEU:HD22	1.90	0.85
3:D:1062:ARG:HG3	3:D:1062:ARG:NH1	1.90	0.85
3:N:44:LEU:HB3	3:N:525:ARG:HH22	1.36	0.85
5:F:280:GLN:OE1	5:F:281:GLU:HB2	1.75	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:266:ARG:HG2	2:M:273:GLY:HA3	1.58	0.85
3:N:550:ARG:NH1	3:N:577:ALA:HB2	1.91	0.85
3:D:703:ASN:O	3:D:745:MET:HG3	1.74	0.85
4:O:54:LEU:HG	4:O:58:PRO:CG	2.06	0.85
1:A:42:ARG:NH1	2:C:857:ASP:HB3	1.90	0.85
3:D:705:ALA:CB	3:D:706:PRO:HD3	2.06	0.85
5:F:154:LYS:O	5:F:158:GLU:HG3	1.76	0.85
3:N:245:LEU:HD22	3:N:246:PRO:HD2	1.58	0.85
3:N:187:LYS:HE2	3:N:213:VAL:H	1.41	0.85
3:N:179:VAL:HG11	3:N:217:LYS:NZ	1.91	0.85
3:D:1045:MET:HG3	3:D:1073:SER:HA	1.58	0.84
3:N:1271:LYS:HZ2	3:N:1273:VAL:HA	1.42	0.84
3:N:1120:VAL:HA	3:N:1346:ARG:NH2	1.91	0.84
3:N:423:ASP:HB2	5:P:178:ARG:CB	2.07	0.84
5:P:358:LEU:HD21	5:P:370:LYS:NZ	1.92	0.84
1:K:99:LEU:HB3	1:K:114:PHE:HD2	1.42	0.84
3:N:732:VAL:HB	3:N:736:PHE:HE1	1.42	0.84
3:D:1382:THR:O	3:D:1384:PRO:HD3	1.77	0.84
2:C:1047:HIS:NE2	3:D:1471:LEU:HD21	1.92	0.84
3:N:210:ARG:HD2	3:N:398:ALA:HB3	1.58	0.84
3:D:1481:VAL:HG11	4:E:18:ARG:HA	1.59	0.84
5:F:416:ARG:NH2	5:F:419:ARG:HD3	1.92	0.84
1:L:108:GLU:HG2	1:L:131:THR:HG22	1.56	0.84
2:M:139:GLN:NE2	2:M:414:GLY:HA3	1.92	0.84
2:M:554:ASP:OD2	2:M:556:ASN:HB2	1.76	0.84
3:N:1271:LYS:NZ	3:N:1273:VAL:HA	1.92	0.84
3:D:1314:LYS:NZ	3:D:1317:ASP:HB2	1.92	0.84
5:P:367:MET:HA	5:P:370:LYS:HD3	1.60	0.84
2:M:194:VAL:HA	2:M:197:LEU:HD12	1.60	0.84
3:D:191:LEU:HD12	3:D:211:VAL:HG21	1.60	0.84
2:M:288:ARG:HA	2:M:288:ARG:HE	1.42	0.84
2:C:1115:LEU:HB3	3:D:85:VAL:HG12	1.57	0.84
3:N:1161:GLU:OE2	3:N:1164:ARG:HD2	1.78	0.84
3:N:1440:PHE:HB3	3:N:1442:ASN:OD1	1.78	0.84
5:F:151:LEU:HD13	5:F:154:LYS:HB3	1.59	0.84
2:M:941:VAL:HA	2:M:944:LEU:HD12	1.60	0.84
3:N:550:ARG:HH12	3:N:577:ALA:HB2	1.40	0.84
5:P:94:LEU:HG	5:P:97:GLU:HB2	1.59	0.84
2:C:1115:LEU:H	2:C:1115:LEU:HD12	1.42	0.83
2:C:439:CYS:HB2	2:C:541:SER:HB3	1.61	0.83
3:D:1223:ILE:HD12	3:D:1223:ILE:N	1.92	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:9:LEU:HB3	4:E:19:LEU:HD21	1.60	0.83
5:F:141:VAL:O	5:F:145:PRO:HG2	1.78	0.83
2:M:376:ARG:HB3	2:M:377:PRO:HD3	1.57	0.83
4:O:54:LEU:CG	4:O:58:PRO:HG2	2.08	0.83
2:C:49:ARG:NH1	2:C:49:ARG:HB2	1.93	0.83
3:D:1130:ARG:NH2	3:D:1132:LEU:HG	1.92	0.83
2:M:516:ARG:HH11	2:M:521:PRO:HB3	1.43	0.83
3:N:908:LYS:HB3	3:N:1027:GLY:HA3	1.58	0.83
2:M:886:LEU:HD12	3:N:951:ILE:HG13	1.58	0.83
2:C:762:LYS:HA	2:C:786:LYS:HD2	1.57	0.83
3:D:609:GLY:HA2	3:D:613:ARG:HB3	1.58	0.83
3:N:1047:LYS:HD2	3:N:1051:GLU:HG3	1.58	0.83
2:C:857:ASP:HB2	2:C:978:ARG:CG	2.08	0.83
3:D:984:THR:HG22	3:D:987:GLU:CG	2.08	0.83
2:C:395:LYS:HE3	2:C:407:LYS:HZ2	1.42	0.83
3:D:675:ARG:O	3:D:678:GLU:HG2	1.78	0.83
3:D:715:ALA:O	3:D:764:LEU:HD12	1.79	0.83
3:D:98:PRO:HG2	3:D:462:GLN:HE22	1.41	0.83
3:N:1283:ILE:HG22	3:N:1284:GLU:H	1.42	0.83
2:C:919:ALA:HB2	2:C:968:LEU:HD21	1.59	0.83
3:D:996:TRP:CE2	3:D:1056:PRO:HG2	2.13	0.83
1:K:27:PRO:HG2	1:K:186:LEU:HD22	1.61	0.83
3:N:564:GLU:HG2	3:N:565:ILE:HD12	1.60	0.83
3:N:60:CYS:SG	3:N:62:LYS:N	2.51	0.83
3:N:895:VAL:HG13	3:N:921:ARG:NH1	1.93	0.83
5:F:94:LEU:CD1	5:F:96:LEU:H	1.92	0.83
3:N:704:ARG:HG3	3:N:736:PHE:HB2	1.60	0.83
3:N:948:THR:O	3:N:949:ILE:HG13	1.79	0.83
4:O:40:LEU:HD21	4:O:67:GLU:HG2	1.61	0.83
2:C:1101:THR:O	2:C:1102:LEU:HD12	1.77	0.82
3:D:1152:GLU:N	3:D:1162:GLU:HB2	1.92	0.82
3:D:1310:ARG:HG3	3:D:1327:ARG:HB3	1.58	0.82
5:F:158:GLU:HA	5:F:161:GLN:NE2	1.94	0.82
5:P:134:LYS:O	5:P:135:ILE:HG12	1.78	0.82
1:K:228:PRO:HG3	1:L:11:PHE:HE2	1.42	0.82
3:N:1393:GLN:HB2	3:N:1398:TRP:NE1	1.93	0.82
5:P:214:GLN:HA	5:P:217:ASN:HD22	1.43	0.82
1:A:50:GLY:HA3	1:A:171:PHE:O	1.79	0.82
3:D:969:ARG:HB3	3:D:969:ARG:NH1	1.95	0.82
2:M:44:ILE:HG23	2:M:344:PHE:HE1	1.42	0.82
2:M:497:ALA:O	2:M:532:MET:HG3	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:516:ARG:NH1	3:N:1068:LEU:HD22	1.94	0.82
1:A:206:THR:HG22	1:A:209:GLU:H	1.44	0.82
3:D:1107:VAL:HG12	3:D:1217:ILE:HA	1.59	0.82
2:C:1096:ALA:CB	3:D:514:LEU:HD21	2.10	0.82
5:F:416:ARG:HH22	5:F:419:ARG:HD3	1.44	0.82
2:M:1014:SER:HB3	2:M:1017:THR:O	1.78	0.82
2:C:263:ASP:HB2	2:C:264:PRO:CD	2.08	0.82
2:C:950:LEU:HB3	2:C:952:LEU:HD23	1.62	0.82
3:N:1116:ASN:H	3:N:1116:ASN:HD22	1.27	0.82
5:P:399:GLN:O	5:P:403:LYS:HB2	1.79	0.82
3:D:374:GLU:HG2	3:D:386:HIS:HA	1.59	0.82
2:M:260:LEU:HB2	2:M:291:ALA:HB1	1.60	0.82
3:N:1176:LYS:O	3:N:1179:GLU:HB2	1.79	0.82
3:N:1342:GLU:H	3:N:1342:GLU:CD	1.81	0.82
5:P:316:SER:OG	5:P:318:GLU:HG3	1.79	0.82
2:C:896:PHE:CD2	2:C:925:TYR:HB2	2.15	0.82
3:D:1476:THR:HG23	4:E:21:VAL:HG22	1.62	0.82
3:D:1342:GLU:H	3:D:1342:GLU:CD	1.83	0.82
3:D:426:LYS:HB3	5:F:134:LYS:O	1.79	0.82
2:M:332:ARG:NH2	2:M:464:LEU:HD11	1.94	0.82
2:M:597:ALA:O	2:M:652:GLY:HA2	1.79	0.82
3:N:134:VAL:HG12	3:N:152:LEU:HB3	1.61	0.82
3:N:639:LEU:HD23	3:N:639:LEU:O	1.79	0.82
1:B:153:ALA:HB1	1:B:166:PRO:HB2	1.60	0.82
5:F:205:ARG:HD2	5:F:251:ILE:HD13	1.62	0.82
1:K:201:THR:HG22	1:K:203:GLY:H	1.44	0.82
3:N:1120:VAL:HA	3:N:1346:ARG:HH22	1.44	0.82
3:N:806:PHE:CE1	3:N:813:LEU:HB3	2.15	0.82
1:B:40:LEU:O	1:B:44:LEU:HD12	1.78	0.81
3:D:1462:LEU:HD22	3:D:1472:ILE:HG23	1.61	0.81
1:K:79:ILE:HD12	1:K:167:VAL:HG12	1.61	0.81
3:D:989:TYR:CZ	3:D:993:LEU:HD11	2.15	0.81
4:E:54:LEU:HG	4:E:58:PRO:CG	2.09	0.81
1:L:132:LEU:HD21	1:L:138:LEU:HB2	1.60	0.81
1:A:90:LEU:HG	1:A:119:ASP:O	1.80	0.81
2:C:129:ILE:HG22	2:C:130:ASN:ND2	1.96	0.81
2:M:428:ARG:HH21	2:M:449:ILE:HG22	1.44	0.81
2:M:950:LEU:HD12	2:M:952:LEU:CD2	2.10	0.81
3:N:875:THR:HG22	3:N:879:ARG:HG3	1.62	0.81
2:C:607:ASP:O	2:C:609:ASN:N	2.13	0.81
1:K:224:TYR:CD1	1:L:9:PRO:HD2	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:838:LYS:HD3	2:M:846:LYS:HZ3	1.45	0.81
3:N:1116:ASN:H	3:N:1116:ASN:ND2	1.74	0.81
2:C:653:ASP:OD1	2:C:654:LEU:HD23	1.81	0.81
3:D:728:LEU:HD22	3:D:745:MET:CE	2.10	0.81
3:N:971:LEU:O	3:N:975:GLU:HG2	1.80	0.81
2:C:349:ALA:O	2:C:353:ARG:HG3	1.80	0.81
2:C:950:LEU:HB3	2:C:952:LEU:CD2	2.10	0.81
3:D:1137:ARG:O	3:D:1141:GLU:HG3	1.81	0.81
3:D:159:ARG:HB2	3:D:159:ARG:NH1	1.94	0.81
2:M:432:ARG:NH2	3:N:1047:LYS:HD3	1.96	0.81
5:F:133:ALA:HA	5:F:136:LEU:HD12	1.61	0.81
3:N:1428:ALA:O	3:N:1431:THR:HG23	1.81	0.81
3:N:74:GLU:HB3	3:N:75:ARG:HH21	1.46	0.81
1:A:102:LYS:HG3	1:A:139:ASN:HB2	1.63	0.81
5:F:209:PHE:CE2	5:F:213:ILE:HD11	2.16	0.81
2:M:760:SER:O	2:M:785:VAL:HG13	1.81	0.81
3:D:642:CYS:HB3	3:D:716:PHE:HB2	1.61	0.81
5:F:207:LEU:HB2	5:F:212:LEU:HD21	1.63	0.81
5:F:287:THR:HG23	5:F:289:GLU:HB2	1.63	0.81
2:M:1047:HIS:O	2:M:1050:GLN:HB3	1.80	0.81
3:N:1147:ARG:HB3	3:N:1188:VAL:CG2	2.10	0.81
3:N:486:ARG:HH21	3:N:489:ARG:NE	1.78	0.81
3:N:845:ASN:CB	3:N:848:GLU:HG3	2.11	0.81
2:C:516:ARG:NH1	2:C:521:PRO:HB3	1.96	0.80
2:C:604:ALA:HB3	2:C:612:VAL:HB	1.63	0.80
3:D:1107:VAL:CG1	3:D:1217:ILE:HA	2.10	0.80
2:M:1097:LEU:H	2:M:1097:LEU:HD12	1.45	0.80
3:N:646:LYS:HE2	3:N:722:GLU:OE2	1.82	0.80
3:N:984:THR:HG23	3:N:987:GLU:H	1.47	0.80
2:C:435:TYR:CE1	2:C:539:VAL:HG22	2.16	0.80
3:D:705:ALA:HB3	3:D:706:PRO:HD3	1.60	0.80
3:N:1262:LEU:HD21	3:N:1351:GLU:HB3	1.62	0.80
1:K:33:GLY:HA2	1:K:195:LEU:HB2	1.62	0.80
2:M:154:ARG:O	2:M:154:ARG:HD3	1.81	0.80
2:M:17:PRO:HB2	2:M:20:GLU:HB2	1.63	0.80
3:N:29:PRO:HG2	3:N:549:ASN:ND2	1.96	0.80
5:P:132:ARG:HH21	5:P:184:ARG:HH12	1.29	0.80
1:B:86:VAL:H	1:B:124:ASN:HD22	0.86	0.80
3:D:770:LEU:HA	3:D:777:PRO:HA	1.64	0.80
1:K:86:VAL:N	1:K:124:ASN:HD22	1.80	0.80
2:M:537:LYS:HA	2:M:905:ILE:HD11	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:845:ASN:HB2	3:N:848:GLU:HG3	1.64	0.80
2:C:263:ASP:CB	2:C:264:PRO:HD3	2.12	0.80
2:C:31:GLN:HE22	2:C:40:GLU:HB2	1.46	0.80
2:C:863:ASP:O	2:C:865:THR:N	2.14	0.80
2:C:916:GLU:OE1	2:C:917:LEU:HD23	1.81	0.80
2:M:15:LEU:HB2	2:M:586:ARG:HH12	1.45	0.80
3:N:1320:GLU:H	3:N:1323:GLN:NE2	1.80	0.80
3:N:563:PRO:HG3	5:P:185:GLN:OE1	1.81	0.80
1:A:86:VAL:HG12	1:A:124:ASN:HD22	1.47	0.80
3:D:616:GLN:HA	3:D:619:LEU:HB3	1.63	0.80
3:N:399:ARG:HB3	3:N:402:PRO:HG3	1.62	0.80
1:K:226:SER:O	1:K:228:PRO:HD3	1.80	0.80
2:M:876:VAL:HB	2:M:877:PRO:HD3	1.63	0.80
3:N:1065:LEU:HD23	3:N:1070:TYR:CD2	2.16	0.80
3:N:1462:LEU:HD22	3:N:1472:ILE:HD12	1.64	0.80
1:K:195:LEU:HD12	1:K:196:THR:H	1.45	0.80
2:M:285:LEU:HD11	2:M:302:VAL:HG22	1.62	0.80
2:M:966:LEU:HD11	2:M:986:PRO:HG2	1.63	0.80
3:D:1086:LEU:HD22	6:D:1525:STD:H113	1.62	0.79
4:E:43:GLU:O	4:E:45:ARG:HG2	1.83	0.79
2:M:650:ARG:N	2:M:650:ARG:HD3	1.96	0.79
3:D:1151:ARG:HA	3:D:1162:GLU:HG3	1.61	0.79
1:L:111:ALA:HB2	1:L:127:LEU:HB3	1.62	0.79
2:M:650:ARG:H	2:M:650:ARG:CD	1.93	0.79
3:N:249:TYR:C	3:N:250:LEU:HD12	2.02	0.79
3:N:465:LEU:HD12	3:N:513:ILE:HD11	1.62	0.79
5:P:132:ARG:HH21	5:P:184:ARG:NH1	1.81	0.79
1:B:19:GLU:HG3	1:B:201:THR:O	1.81	0.79
2:C:1111:ILE:HG13	2:C:1112:PHE:H	1.46	0.79
3:D:826:PRO:HD2	3:D:829:VAL:HG13	1.65	0.79
3:N:97:THR:HG21	3:N:571:LYS:HD3	1.65	0.79
1:B:100:LEU:HD12	1:B:115:LEU:HD21	1.64	0.79
2:C:964:LYS:HG2	2:C:968:LEU:HD11	1.64	0.79
3:N:162:ARG:HG3	3:N:434:ARG:NE	1.97	0.79
2:C:534:VAL:H	2:C:538:GLN:HE22	1.27	0.79
2:M:926:PHE:CE2	2:M:960:GLU:HG3	2.17	0.79
3:N:1124:GLN:HE21	3:N:1133:ARG:HD2	1.47	0.79
3:N:912:LYS:HB3	3:N:912:LYS:NZ	1.97	0.79
2:C:461:VAL:HG13	2:C:465:GLY:HA2	1.65	0.79
3:D:186:VAL:HG13	3:D:187:LYS:N	1.97	0.79
3:N:237:LYS:HB3	3:N:238:PRO:HD3	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:181:GLU:OE2	5:P:184:ARG:HD3	1.81	0.79
5:P:366:ALA:O	5:P:370:LYS:HB3	1.83	0.79
5:P:405:LEU:O	5:P:405:LEU:HD23	1.82	0.79
3:D:699:VAL:H	3:D:756:GLN:HE22	1.30	0.79
1:K:195:LEU:HD12	1:K:196:THR:N	1.98	0.79
2:M:548:PRO:HG2	2:M:842:ARG:NH2	1.98	0.79
2:M:580:MET:HB3	2:M:584:GLU:CD	2.03	0.79
3:N:399:ARG:CB	3:N:402:PRO:HG3	2.13	0.79
5:P:416:ARG:HG2	5:P:419:ARG:HG3	1.63	0.79
1:A:44:LEU:HD13	1:A:177:VAL:HG11	1.65	0.79
1:B:27:PRO:HG2	1:B:186:LEU:HD12	1.64	0.79
3:D:377:VAL:HG13	3:D:382:GLU:HG2	1.63	0.79
2:C:15:LEU:HD22	2:C:583:LEU:HD21	1.65	0.79
2:C:589:ARG:HD3	2:C:596:TYR:CZ	2.18	0.79
3:D:1253:THR:HG22	3:D:1258:ARG:HB2	1.64	0.79
3:D:1433:SER:HB2	3:D:1457:ASP:CG	2.03	0.79
4:E:54:LEU:O	4:E:54:LEU:HD23	1.81	0.79
5:F:287:THR:HG22	5:F:290:GLU:OE1	1.82	0.79
1:L:175:ARG:HB2	1:L:200:TRP:HB3	1.63	0.79
3:N:1045:MET:HG2	3:N:1073:SER:HA	1.64	0.79
3:N:558:LEU:HD22	5:P:145:PRO:HB3	1.62	0.79
3:D:141:ILE:N	3:D:141:ILE:HD12	1.95	0.78
3:D:96:ALA:HB3	3:D:554:LEU:HG	1.66	0.78
2:M:21:ILE:HD12	2:M:21:ILE:H	1.48	0.78
2:M:845:ASN:HD22	2:M:884:GLN:HE22	1.31	0.78
3:N:659:LYS:O	3:N:663:GLU:HG3	1.83	0.78
3:D:396:VAL:HG21	3:D:447:VAL:HG12	1.64	0.78
4:E:46:PRO:HB3	4:E:54:LEU:HD22	1.65	0.78
2:M:230:ARG:HB2	2:M:233:GLU:HB3	1.63	0.78
3:N:785:ILE:HD12	3:N:785:ILE:N	1.98	0.78
2:C:1109:VAL:HG11	3:D:5:VAL:HG22	1.63	0.78
3:N:798:GLU:OE1	3:N:828:LYS:HE2	1.84	0.78
4:E:10:PHE:CE2	4:E:16:LYS:HG3	2.18	0.78
3:N:191:LEU:HB3	3:N:195:VAL:HG21	1.64	0.78
3:N:677:LEU:HD21	3:N:687:VAL:HG11	1.65	0.78
5:P:163:LEU:HD13	5:P:174:LEU:HD21	1.65	0.78
1:A:9:PRO:HD2	1:B:224:TYR:CD1	2.19	0.78
2:C:1032:PHE:HZ	2:C:1040:LEU:HD22	1.48	0.78
3:D:1046:GLN:NE2	3:D:1052:THR:HG22	1.99	0.78
3:D:813:LEU:O	3:D:817:GLU:HG3	1.82	0.78
3:N:1116:ASN:HD22	3:N:1116:ASN:N	1.79	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:617:ASN:O	3:N:618:LEU:HD23	1.83	0.78
2:C:195:LEU:HG	2:C:238:LEU:HD12	1.66	0.78
5:P:394:ARG:HD2	5:P:394:ARG:H	1.47	0.78
3:D:212:ARG:CD	3:D:445:ARG:HH22	1.96	0.78
3:D:218:LYS:NZ	3:D:370:ALA:HA	1.99	0.78
6:M:1120:STD:H243	3:N:1090:ASP:OD1	1.84	0.78
3:D:728:LEU:HD22	3:D:745:MET:HE1	1.63	0.78
5:F:94:LEU:HD13	5:F:96:LEU:H	1.47	0.78
2:M:197:LEU:HA	2:M:200:LEU:HD12	1.66	0.78
2:M:721:ARG:HE	2:M:783:ARG:NH2	1.82	0.78
5:P:132:ARG:O	5:P:136:LEU:HG	1.84	0.78
2:M:605:LYS:HD3	2:M:610:ARG:HH22	1.49	0.78
2:C:841:ASN:HD21	2:C:845:ASN:H	1.29	0.77
3:D:108:VAL:HB	3:D:109:PRO:CD	2.12	0.77
3:D:139:GLY:O	3:D:147:VAL:HG22	1.83	0.77
3:N:216:VAL:HG11	3:N:221:ALA:HA	1.66	0.77
3:D:28:LYS:HD3	3:D:41:ARG:HD2	1.65	0.77
5:F:358:LEU:HD11	5:F:370:LYS:CE	2.14	0.77
1:K:150:TYR:CE2	1:K:152:PRO:HG3	2.17	0.77
2:M:470:PRO:HB2	2:M:534:VAL:CG2	2.13	0.77
2:C:326:ASP:HA	2:C:331:ARG:HD2	1.63	0.77
2:C:742:VAL:HG12	2:C:743:VAL:H	1.49	0.77
2:C:91:GLN:NE2	2:C:117:HIS:HB2	1.99	0.77
3:D:972:LEU:HD23	3:D:973:GLN:N	1.99	0.77
3:N:231:VAL:HB	3:N:378:ILE:HG23	1.67	0.77
3:N:374:GLU:HG2	3:N:386:HIS:HA	1.66	0.77
2:C:22:GLN:NE2	2:C:336:VAL:HG21	1.98	0.77
3:D:653:PHE:CE1	3:D:695:ILE:HD11	2.20	0.77
1:K:12:THR:HG23	1:K:24:VAL:HB	1.67	0.77
1:K:58:ILE:HD13	1:K:140:MET:HB2	1.66	0.77
1:K:103:ALA:O	1:K:104:GLU:HG3	1.85	0.77
1:L:5:LYS:HA	1:L:5:LYS:HE3	1.66	0.77
1:K:42:ARG:NH1	2:M:857:ASP:HB3	2.00	0.77
3:N:1175:ILE:O	3:N:1179:GLU:HG3	1.83	0.77
2:M:1083:GLU:O	2:M:1087:VAL:HG23	1.84	0.77
1:A:90:LEU:HB2	1:A:119:ASP:HB3	1.67	0.77
3:D:808:THR:HB	3:D:809:PRO:HD3	1.65	0.77
3:D:820:GLU:HG3	3:D:836:VAL:HG21	1.66	0.77
3:N:12:LEU:HD21	3:N:104:PHE:CE1	2.18	0.77
3:N:1381:VAL:HG23	3:N:1391:GLU:HB2	1.64	0.77
3:N:558:LEU:HD13	5:P:145:PRO:CA	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:84:TYR:CE1	5:F:192:LEU:HD22	2.20	0.77
2:M:444:PRO:HB2	2:M:448:ASN:O	1.84	0.77
2:C:585:GLU:O	2:C:588:VAL:HG22	1.85	0.77
2:C:588:VAL:HG21	2:C:664:GLY:O	1.85	0.77
3:N:1450:ALA:HA	3:N:1455:LYS:HG3	1.65	0.77
2:C:116:GLY:HA2	2:C:379:GLU:OE1	1.85	0.77
3:D:1009:LYS:HE3	3:D:1013:GLU:OE1	1.84	0.77
3:D:218:LYS:HZ3	3:D:370:ALA:CA	1.98	0.77
3:D:539:ASP:HB3	3:D:600:LEU:HD22	1.67	0.77
3:D:55:ASP:HA	3:D:82:LYS:HG2	1.67	0.77
3:N:1114:THR:HG22	3:N:1116:ASN:HD21	1.50	0.77
3:N:1189:ARG:NH2	3:N:1203:LYS:HB2	1.99	0.77
3:N:804:LEU:O	3:N:804:LEU:HD12	1.85	0.77
3:D:149:LYS:HD3	3:D:149:LYS:N	1.99	0.76
3:D:785:ILE:CD1	3:D:935:LYS:HA	2.14	0.76
2:M:691:SER:CB	2:M:858:MET:SD	2.73	0.76
3:D:1086:LEU:HB2	6:D:1525:STD:H312	1.67	0.76
3:D:1192:LEU:HD22	3:D:1345:GLU:OE2	1.85	0.76
3:D:570:GLU:HB2	5:F:214:GLN:HE21	1.49	0.76
3:N:1109:GLU:CG	3:N:1202:GLN:H	1.95	0.76
3:D:1047:LYS:HG2	3:D:1053:PHE:CE1	2.21	0.76
1:L:36:LEU:O	1:L:39:PRO:HD2	1.85	0.76
5:P:352:GLU:O	5:P:356:LYS:HG3	1.86	0.76
2:C:1071:ILE:CD1	3:D:655:PRO:HB3	2.16	0.76
3:D:1042:ARG:O	3:D:1057:VAL:HB	1.86	0.76
3:D:1472:ILE:HG22	3:D:1474:ALA:H	1.50	0.76
3:D:914:LEU:O	3:D:914:LEU:HD23	1.85	0.76
1:K:109:VAL:HG23	1:K:132:LEU:HD13	1.66	0.76
1:L:132:LEU:CD2	1:L:138:LEU:HB2	2.14	0.76
3:N:108:VAL:HB	3:N:109:PRO:HD3	1.67	0.76
3:N:1258:ARG:NH2	3:N:1351:GLU:HG2	1.97	0.76
3:N:52:PRO:HG3	3:N:80:VAL:HA	1.66	0.76
3:N:554:LEU:HD22	3:N:570:GLU:HG2	1.66	0.76
3:N:833:GLU:OE1	3:N:834:THR:HG23	1.85	0.76
1:A:42:ARG:HH12	2:C:857:ASP:CB	1.96	0.76
2:C:897:LEU:HD11	2:C:920:GLN:HG2	1.68	0.76
1:K:228:PRO:HG3	1:L:11:PHE:CE2	2.20	0.76
3:N:957:PRO:HG2	3:N:1007:VAL:HG12	1.68	0.76
3:N:858:VAL:HG12	3:N:859:ASP:H	1.49	0.76
5:P:109:GLY:O	5:P:112:ALA:HB3	1.85	0.76
2:C:292:ARG:NH1	2:C:299:LYS:HD3	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:77:GLY:O	3:D:78:VAL:HG23	1.86	0.76
3:D:857:ILE:HG22	3:D:858:VAL:HG22	1.68	0.76
1:K:59:GLU:HG3	1:K:60:ASP:H	1.50	0.76
2:M:679:PHE:O	2:M:681:GLY:N	2.19	0.76
2:C:1057:SER:HB2	3:D:622:ARG:O	1.85	0.76
3:D:93:ILE:HD13	3:D:548:ILE:HD11	1.68	0.76
3:N:1388:ARG:HG3	3:N:1389:LEU:HD23	1.68	0.76
2:C:952:LEU:HD12	2:C:969:GLN:HE22	1.50	0.76
3:D:493:ARG:NH2	3:D:1389:LEU:HD21	1.97	0.76
3:D:18:ILE:HG23	3:D:518:PRO:HG3	1.67	0.76
5:F:313:GLU:OE2	5:F:314:PRO:HD2	1.85	0.76
5:F:82:ARG:HG2	5:F:86:HIS:CD2	2.21	0.76
3:D:119:SER:CB	3:D:123:LEU:HB2	2.16	0.76
3:D:192:ALA:O	3:D:195:VAL:HG23	1.85	0.76
2:M:1031:ARG:HD2	3:N:619:LEU:O	1.86	0.76
2:M:945:ARG:O	2:M:949:LYS:HG3	1.86	0.76
1:B:58:ILE:HG22	1:B:59:GLU:HG2	1.67	0.76
2:C:1016:ILE:HD13	2:C:1016:ILE:N	1.95	0.76
1:K:11:PHE:CE2	1:L:228:PRO:HG3	2.20	0.76
2:M:605:LYS:HD3	2:M:610:ARG:NH2	2.00	0.76
2:C:192:PRO:HB2	2:C:195:LEU:HB2	1.66	0.75
2:C:496:ILE:O	2:C:515:ALA:HB1	1.85	0.75
3:D:1277:ILE:HG22	3:D:1278:ASP:N	1.98	0.75
2:M:176:VAL:O	2:M:178:PRO:HD3	1.85	0.75
2:M:770:GLU:HG2	3:N:65:ARG:HH22	1.51	0.75
3:N:137:PRO:HD2	3:N:453:ASP:HB3	1.67	0.75
1:A:206:THR:HB	1:A:209:GLU:CG	2.14	0.75
2:C:471:TYR:CE2	2:C:496:ILE:HG21	2.20	0.75
3:D:1495:ILE:HG23	3:D:1499:ARG:HH21	1.51	0.75
3:D:629:SER:HB3	3:D:726:ILE:HD11	1.68	0.75
3:D:984:THR:HG23	3:D:987:GLU:H	1.50	0.75
3:N:1379:VAL:HB	3:N:1417:TRP:HB2	1.67	0.75
2:C:64:LEU:HD11	2:C:100:LEU:HB2	1.69	0.75
3:D:1372:VAL:HG22	3:D:1375:MET:CE	2.17	0.75
3:D:162:ARG:HG3	3:D:163:TYR:N	1.96	0.75
1:L:20:TYR:O	1:L:207:PRO:HG2	1.87	0.75
4:O:26:ARG:O	4:O:30:LEU:HB2	1.86	0.75
1:B:151:VAL:N	1:B:169:ALA:HB3	2.01	0.75
3:D:1191:PRO:HA	3:D:1194:CYS:SG	2.26	0.75
5:F:261:PRO:O	5:F:265:VAL:HG23	1.87	0.75
2:C:1067:TYR:CB	5:F:341:PRO:HB3	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:944:LEU:HD21	2:C:963:LEU:CD2	2.17	0.75
2:C:1095:LEU:HD21	3:D:582:LEU:O	1.86	0.75
2:M:79:PRO:HG2	2:M:82:GLU:HB2	1.69	0.75
3:N:1335:LEU:O	3:N:1335:LEU:HD23	1.87	0.75
1:A:195:LEU:HD11	1:A:197:LEU:HD22	1.69	0.75
3:N:940:THR:O	3:N:943:THR:HG23	1.85	0.75
5:P:354:LEU:HD23	5:P:418:LEU:HD21	1.69	0.75
2:M:352:ALA:HA	2:M:355:VAL:CG1	2.16	0.75
2:M:578:VAL:H	2:M:671:ASN:ND2	1.84	0.75
2:M:597:ALA:HB3	2:M:653:ASP:H	1.51	0.75
3:N:601:ARG:HD3	3:N:613:ARG:HH21	1.52	0.75
2:M:1007:ALA:HB2	3:N:648:MET:HG2	1.69	0.75
5:P:135:ILE:HD11	5:P:178:ARG:CB	2.17	0.75
1:K:205:VAL:HG23	1:K:206:THR:N	2.00	0.75
3:N:1220:ALA:O	3:N:1222:GLY:N	2.19	0.75
3:N:177:ALA:C	3:N:199:LEU:HD13	2.07	0.75
5:P:163:LEU:HB3	5:P:174:LEU:HG	1.68	0.75
1:B:58:ILE:HG22	1:B:59:GLU:H	1.50	0.75
2:C:443:THR:HG23	2:C:444:PRO:HD2	1.69	0.75
1:L:86:VAL:HG12	1:L:124:ASN:HD22	1.52	0.75
3:N:1176:LYS:HA	3:N:1179:GLU:OE1	1.87	0.75
3:N:185:VAL:HA	3:N:189:GLN:HG3	1.67	0.75
3:N:475:LYS:HA	3:N:478:LEU:HD12	1.68	0.75
3:D:1120:VAL:HG11	3:D:1144:LEU:HG	1.67	0.74
3:D:1330:ILE:HG21	3:D:1335:LEU:HD12	1.66	0.74
2:M:165:LEU:HD12	2:M:166:PRO:HA	1.68	0.74
2:M:516:ARG:CZ	3:N:1068:LEU:HD22	2.17	0.74
1:A:87:VAL:HG21	1:A:144:VAL:HG11	1.69	0.74
1:B:36:LEU:O	1:B:39:PRO:HD2	1.86	0.74
2:C:1102:LEU:HD13	3:D:9:ARG:HB3	1.69	0.74
3:D:31:THR:HG23	3:D:45:PHE:HE2	1.50	0.74
3:D:205:TYR:CB	3:D:393:ILE:HD13	2.13	0.74
1:L:12:THR:HG23	1:L:24:VAL:HB	1.67	0.74
2:M:910:LYS:HB2	2:M:913:GLU:HG3	1.69	0.74
3:N:177:ALA:HB1	3:N:199:LEU:HD22	1.69	0.74
3:N:895:VAL:HG13	3:N:921:ARG:HH11	1.50	0.74
3:N:956:ILE:HG12	3:N:1039:CYS:O	1.88	0.74
3:N:196:VAL:HG22	3:N:204:LEU:HD23	1.70	0.74
3:N:654:LYS:HB3	3:N:655:PRO:CD	2.18	0.74
1:A:227:ASN:O	1:B:11:PHE:HB3	1.87	0.74
3:D:817:GLU:O	3:D:821:VAL:HG23	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1082:PRO:HG2	3:N:1469:GLY:HA3	1.69	0.74
2:C:602:GLU:HB3	2:C:614:ARG:HB3	1.70	0.74
2:C:397:GLU:HG2	2:C:633:GLN:NE2	2.01	0.74
3:D:1489:GLN:O	3:D:1493:LYS:HG2	1.86	0.74
3:N:1121:PRO:HD3	3:N:1346:ARG:NH2	2.01	0.74
3:N:736:PHE:CD1	3:N:736:PHE:N	2.54	0.74
1:A:43:ILE:CD1	1:B:35:THR:HG21	2.17	0.74
2:C:689:VAL:HG23	2:C:870:ILE:HB	1.69	0.74
3:D:1046:GLN:HB3	3:D:1052:THR:HA	1.69	0.74
3:D:1432:LYS:HD2	3:D:1433:SER:N	2.02	0.74
2:M:415:PRO:CB	2:M:418:LEU:HD23	2.16	0.74
2:M:456:ALA:HB3	2:M:459:ALA:HB2	1.68	0.74
2:C:1074:GLU:HG2	2:C:1075:ASP:N	2.02	0.74
2:C:863:ASP:O	2:C:865:THR:HG22	1.88	0.74
3:D:119:SER:H	3:D:123:LEU:HB2	1.51	0.74
5:F:120:THR:HG22	5:F:122:LEU:HD13	1.69	0.74
2:M:281:LEU:HD12	2:M:305:PRO:HB2	1.68	0.74
3:N:1046:GLN:HG3	3:N:1046:GLN:O	1.88	0.74
2:C:534:VAL:N	2:C:538:GLN:HE22	1.86	0.74
2:M:676:ILE:CG2	2:M:988:VAL:HG13	2.18	0.74
3:N:141:ILE:HG22	3:N:142:LEU:N	2.02	0.74
3:D:96:ALA:CB	3:D:554:LEU:HG	2.16	0.74
2:M:709:GLU:O	2:M:790:LEU:HD22	1.88	0.74
3:N:676:MET:HE1	3:N:684:LYS:H	1.52	0.74
3:N:625:TYR:HB3	3:N:749:VAL:CG2	2.17	0.74
3:N:59:ALA:HB3	3:N:78:VAL:HG21	1.70	0.74
2:C:775:ARG:NH1	2:C:782:ALA:HB1	2.02	0.74
3:D:367:ILE:HD13	3:D:368:VAL:H	1.53	0.74
2:M:328:LEU:HB2	2:M:433:THR:HB	1.70	0.74
2:M:674:VAL:HG12	2:M:990:GLY:O	1.88	0.74
3:N:1104:GLU:O	3:N:1106:VAL:HG23	1.87	0.74
3:N:387:LEU:CD2	5:P:97:GLU:HG2	2.18	0.74
2:C:602:GLU:CG	2:C:603:VAL:H	2.01	0.73
5:P:226:LYS:HG3	5:P:242:TRP:CH2	2.23	0.73
2:C:690:ILE:HB	2:C:852:ILE:CD1	2.18	0.73
2:C:304:LEU:HB3	2:C:305:PRO:HD3	1.68	0.73
2:C:588:VAL:HG23	2:C:589:ARG:N	2.03	0.73
3:D:172:PRO:HB3	3:D:178:LEU:HD12	1.71	0.73
3:D:828:LYS:N	3:D:828:LYS:HD3	2.04	0.73
3:N:368:VAL:HG22	3:N:369:ALA:N	2.02	0.73
3:N:565:ILE:H	3:N:565:ILE:HD12	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:367:MET:HG3	5:P:370:LYS:HE2	1.69	0.73
2:C:1087:VAL:O	2:C:1091:GLU:HB2	1.87	0.73
3:D:493:ARG:HE	3:D:1389:LEU:HG	1.54	0.73
5:F:392:VAL:HG11	5:F:396:ARG:CD	2.17	0.73
1:K:13:VAL:HG12	1:K:14:ARG:N	2.03	0.73
2:M:573:ARG:HH21	2:M:697:ARG:HB3	1.53	0.73
3:N:1115:THR:CG2	3:N:1151:ARG:HH21	2.01	0.73
2:C:30:LEU:HD12	2:C:30:LEU:O	1.88	0.73
2:C:568:ALA:CB	2:C:668:LEU:HD22	2.18	0.73
3:D:133:ILE:HG21	3:D:454:ALA:HB1	1.71	0.73
3:D:583:ASP:OD2	3:D:604:THR:HB	1.88	0.73
3:D:87:ARG:HB3	3:D:523:ASP:HB2	1.70	0.73
2:C:127:PHE:CD1	2:C:386:PHE:HE2	2.07	0.73
2:C:810:ASP:HB3	2:C:813:VAL:HG22	1.69	0.73
2:C:906:PHE:HD1	3:D:1067:VAL:HG22	1.48	0.73
3:D:375:GLU:O	3:D:385:VAL:HG12	1.88	0.73
3:D:93:ILE:HD13	3:D:548:ILE:CD1	2.19	0.73
2:M:839:LEU:O	2:M:839:LEU:HD12	1.89	0.73
3:N:396:VAL:HG13	3:N:447:VAL:HA	1.69	0.73
3:N:625:TYR:HB3	3:N:749:VAL:HG23	1.70	0.73
1:B:9:PRO:HB3	1:B:25:LEU:HG	1.70	0.73
3:D:1282:ARG:HD3	3:D:1295:GLU:OE1	1.88	0.73
3:D:191:LEU:HD22	3:D:195:VAL:HG11	1.70	0.73
3:D:72:VAL:HG12	3:D:73:CYS:N	2.03	0.73
3:N:1396:GLU:HA	3:N:1399:ASP:OD2	1.88	0.73
2:M:252:LYS:HE2	2:M:296:GLY:HA3	1.71	0.73
2:M:757:GLY:HA2	2:M:789:SER:OG	1.88	0.73
3:N:1121:PRO:HD3	3:N:1346:ARG:HH22	1.54	0.73
3:N:699:VAL:HB	3:N:716:PHE:O	1.89	0.73
2:C:889:HIS:HE1	3:D:951:ILE:N	1.84	0.73
3:D:217:LYS:NZ	3:D:389:GLU:HB3	2.04	0.73
3:D:245:LEU:HD13	3:D:245:LEU:H	1.52	0.73
3:D:223:LEU:N	3:D:365:ASP:HB2	2.02	0.73
3:D:40:GLU:HG3	3:D:41:ARG:H	1.52	0.73
3:D:808:THR:CB	3:D:809:PRO:HD3	2.19	0.73
1:K:35:THR:O	1:K:39:PRO:HG2	1.88	0.73
2:M:521:PRO:HG3	3:N:1068:LEU:HD21	1.69	0.73
3:D:851:LEU:O	3:D:854:ALA:HB3	1.89	0.73
4:E:54:LEU:CA	4:E:58:PRO:HG2	2.17	0.73
1:L:59:GLU:HG3	1:L:60:ASP:H	1.52	0.73
1:L:66:SER:O	1:L:75:VAL:HG23	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:507:ARG:HD2	2:M:507:ARG:H	1.52	0.73
3:N:1095:THR:O	3:N:1099:VAL:HG23	1.88	0.73
3:N:123:LEU:HD21	3:N:152:LEU:HD22	1.71	0.73
3:N:701:LEU:HD21	3:N:763:MET:CE	2.19	0.73
2:M:1043:TYR:CE2	3:N:763:MET:HA	2.24	0.72
5:F:84:TYR:O	5:F:88:ILE:HG13	1.89	0.72
2:M:130:ASN:HD21	2:M:383:ARG:HH21	1.37	0.72
3:N:455:ARG:HH22	5:P:140:ARG:HB2	1.52	0.72
2:C:183:SER:CB	2:C:190:LYS:HD3	2.19	0.72
3:D:571:LYS:HB2	3:D:571:LYS:NZ	2.04	0.72
5:F:270:LYS:HB3	5:F:295:MET:HE1	1.71	0.72
5:F:234:LYS:HD2	5:F:236:SER:N	2.04	0.72
2:C:290:LEU:H	2:C:290:LEU:HD23	1.54	0.72
2:C:51:THR:HG21	2:C:348:LEU:HB3	1.72	0.72
3:D:907:GLU:HG3	3:D:1026:SER:HA	1.71	0.72
3:D:119:SER:O	3:D:121:THR:N	2.23	0.72
3:N:1271:LYS:NZ	3:N:1334:GLN:HE22	1.88	0.72
5:P:130:VAL:HG21	5:P:159:ILE:HG21	1.70	0.72
3:N:455:ARG:HH11	3:N:455:ARG:HG2	1.54	0.72
2:C:256:TYR:HE1	2:C:293:PHE:HB2	1.54	0.72
2:C:343:GLN:HG2	2:C:385:PHE:HB2	1.71	0.72
3:D:1282:ARG:HA	3:D:1315:ASP:OD1	1.90	0.72
3:D:625:TYR:O	3:D:749:VAL:HG23	1.89	0.72
2:M:573:ARG:NH2	2:M:697:ARG:HB3	2.04	0.72
2:M:689:VAL:CG2	2:M:870:ILE:HB	2.20	0.72
3:N:191:LEU:HD12	3:N:211:VAL:HG21	1.72	0.72
1:A:144:VAL:HG12	1:A:145:ASP:N	2.03	0.72
2:C:984:GLU:HG2	3:D:944:THR:O	1.90	0.72
4:E:23:VAL:HG22	4:E:64:ALA:HB3	1.70	0.72
1:K:133:GLU:HG2	1:K:134:GLU:H	1.54	0.72
2:M:569:VAL:HG12	2:M:996:LYS:O	1.90	0.72
3:N:1463:LYS:O	3:N:1467:ILE:HG13	1.90	0.72
3:N:560:GLN:HA	3:N:560:GLN:HE21	1.54	0.72
1:A:184:THR:HG23	1:A:192:LEU:HB2	1.72	0.72
2:C:309:TYR:HA	2:C:312:ALA:HB3	1.71	0.72
2:C:671:ASN:HD22	2:C:671:ASN:N	1.88	0.72
3:D:1104:GLU:HA	3:D:1461:GLY:HA2	1.72	0.72
2:M:1049:LEU:O	2:M:1053:LEU:HD23	1.89	0.72
2:M:1111:ILE:HG13	2:M:1112:PHE:CD1	2.22	0.72
2:M:226:VAL:HG22	2:M:230:ARG:NH2	2.03	0.72
3:N:422:ALA:HA	5:P:178:ARG:HH21	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:276:ARG:HH11	5:P:276:ARG:HG3	1.54	0.72
5:P:358:LEU:HD21	5:P:370:LYS:HZ3	1.50	0.72
2:C:1088:LEU:O	2:C:1092:LEU:HB2	1.90	0.72
2:C:289:THR:HG22	2:C:290:LEU:H	1.53	0.72
2:C:575:GLN:N	2:C:667:ALA:HB1	2.04	0.72
3:D:1130:ARG:HH21	3:D:1132:LEU:HG	1.55	0.72
3:D:223:LEU:HA	3:D:365:ASP:OD1	1.89	0.72
3:N:1003:VAL:O	3:N:1007:VAL:HG13	1.88	0.72
3:N:12:LEU:HD11	3:N:104:PHE:HE1	1.55	0.72
2:C:720:GLU:OE2	2:C:760:SER:HB3	1.90	0.71
3:D:136:ASP:HB3	3:D:137:PRO:HD2	1.71	0.71
3:D:224:ARG:HG2	3:D:225:LEU:N	2.04	0.71
3:D:483:HIS:HB2	3:D:484:PRO:HD3	1.73	0.71
3:D:845:ASN:H	3:D:848:GLU:HG3	1.55	0.71
3:N:1393:GLN:CB	3:N:1398:TRP:HE1	2.01	0.71
3:N:13:ALA:HB1	3:N:18:ILE:HD11	1.71	0.71
3:N:536:ALA:HB2	5:P:315:VAL:HG12	1.69	0.71
3:D:179:VAL:HG13	3:D:389:GLU:HG3	1.72	0.71
4:E:82:GLU:CD	4:E:82:GLU:H	1.91	0.71
1:K:99:LEU:HB3	1:K:114:PHE:CD2	2.25	0.71
2:M:181:VAL:HG12	2:M:182:VAL:H	1.55	0.71
2:M:260:LEU:HG	2:M:261:ILE:N	2.05	0.71
3:N:621:LYS:O	3:N:622:ARG:CG	2.38	0.71
3:N:769:LEU:N	3:N:769:LEU:HD12	2.06	0.71
3:N:858:VAL:HG12	3:N:859:ASP:N	2.05	0.71
3:D:1113:GLY:O	3:D:1115:THR:N	2.23	0.71
3:D:1129:THR:HG23	3:D:1130:ARG:N	2.04	0.71
3:D:140:ALA:HB3	3:D:141:ILE:HD12	1.72	0.71
3:D:1486:VAL:O	3:D:1487:VAL:HG13	1.89	0.71
3:D:654:LYS:HB3	3:D:655:PRO:CD	2.19	0.71
5:F:282:LEU:HD12	5:F:284:ARG:HB2	1.72	0.71
2:M:176:VAL:CG1	2:M:182:VAL:HG13	2.19	0.71
3:N:1155:VAL:CG1	3:N:1183:ILE:HD11	2.20	0.71
3:N:423:ASP:CB	5:P:178:ARG:HB2	2.18	0.71
2:C:188:LYS:C	2:C:188:LYS:HE2	2.10	0.71
2:C:607:ASP:C	2:C:609:ASN:N	2.40	0.71
3:D:12:LEU:HD13	3:D:511:TRP:HB2	1.72	0.71
3:D:1488:ASP:OD2	3:D:1491:THR:HG23	1.91	0.71
1:K:47:SER:HB2	1:K:217:ILE:HD13	1.72	0.71
1:B:226:SER:O	1:B:228:PRO:HD3	1.90	0.71
3:D:1209:LEU:CD2	3:D:1210:SER:H	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:23:VAL:HG21	4:E:65:MET:CG	2.19	0.71
3:N:601:ARG:HD3	3:N:613:ARG:NH2	2.05	0.71
3:N:887:ALA:HB1	3:N:893:GLU:HG2	1.72	0.71
5:P:371:LEU:HD22	5:P:375:LEU:HD22	1.73	0.71
2:C:627:ARG:HG3	2:C:628:PHE:N	2.05	0.71
3:D:493:ARG:HH21	3:D:1389:LEU:CD2	2.00	0.71
4:E:54:LEU:HG	4:E:58:PRO:CB	2.21	0.71
5:F:288:TYR:CE2	5:F:305:GLU:HG3	2.26	0.71
5:F:368:VAL:O	5:F:372:ARG:HB2	1.89	0.71
2:M:1044:GLY:O	2:M:1046:ALA:N	2.17	0.71
2:M:574:ALA:O	2:M:575:GLN:HB2	1.89	0.71
2:M:397:GLU:OE2	2:M:632:ASN:HB2	1.89	0.71
3:N:1158:VAL:HG12	3:N:1159:ARG:H	1.54	0.71
3:N:119:SER:HB2	3:N:123:LEU:N	2.04	0.71
3:N:387:LEU:HD12	5:P:96:LEU:CB	2.21	0.71
2:C:141:HIS:CE1	2:C:332:ARG:HH11	2.09	0.71
3:D:396:VAL:HG13	3:D:446:VAL:C	2.10	0.71
3:D:703:ASN:HD22	3:D:704:ARG:H	1.38	0.71
2:M:670:GLN:HE22	2:M:699:PHE:HA	1.56	0.71
3:N:1045:MET:CG	3:N:1073:SER:HA	2.20	0.71
3:N:387:LEU:HG	5:P:97:GLU:HG2	1.71	0.71
3:D:186:VAL:CG1	3:D:187:LYS:H	2.00	0.71
2:M:21:ILE:HD12	2:M:21:ILE:N	2.05	0.71
2:M:922:PHE:HD2	2:M:964:LYS:HD3	1.56	0.71
3:N:1065:LEU:CD2	3:N:1070:TYR:HD2	2.02	0.71
3:N:176:ASP:OD1	3:N:219:GLU:HB2	1.90	0.71
3:N:785:ILE:CD1	3:N:785:ILE:H	1.96	0.71
3:D:1130:ARG:HH21	3:D:1132:LEU:H	1.37	0.71
2:C:682:TYR:CD1	3:D:635:PRO:HG2	2.26	0.71
3:D:699:VAL:N	3:D:756:GLN:HE22	1.88	0.71
2:M:140:ILE:HA	2:M:332:ARG:O	1.91	0.71
3:N:1134:LEU:HD23	3:N:1135:ARG:H	1.55	0.71
3:N:421:LEU:HG	3:N:422:ALA:O	1.90	0.71
3:N:434:ARG:O	3:N:447:VAL:HG22	1.91	0.71
3:N:562:ALA:O	3:N:567:ILE:HD11	1.91	0.71
1:A:39:PRO:O	1:A:43:ILE:HG12	1.91	0.71
2:C:490:GLU:O	2:C:490:GLU:HG2	1.89	0.71
3:D:524:LEU:C	3:D:526:PRO:HD3	2.11	0.71
3:D:709:HIS:HD2	3:D:711:LEU:HB2	1.56	0.71
3:N:710:ARG:NH1	3:N:1210:SER:OG	2.23	0.71
3:N:535:PHE:O	5:P:314:PRO:HA	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:12:THR:OG1	1:B:24:VAL:HB	1.91	0.70
2:C:1004:LYS:HE3	2:C:1027:PHE:HE1	1.56	0.70
3:D:1310:ARG:HE	3:D:1327:ARG:HB3	1.55	0.70
3:D:634:GLY:O	3:D:637:LEU:HB2	1.91	0.70
1:L:137:ARG:HH12	1:L:139:ASN:HB3	1.56	0.70
1:L:216:GLU:OE2	1:L:220:GLU:HG3	1.90	0.70
3:N:1197:ARG:HD3	3:N:1396:GLU:HB2	1.72	0.70
3:N:700:VAL:HG22	3:N:718:PRO:HG3	1.73	0.70
3:N:882:PHE:O	3:N:886:VAL:HG23	1.90	0.70
3:D:795:VAL:HG12	3:D:796:ARG:H	1.56	0.70
3:D:814:ALA:O	3:D:818:ARG:HG3	1.91	0.70
3:D:533:GLY:HA3	5:F:309:LYS:HB3	1.72	0.70
2:M:1043:TYR:CD2	3:N:763:MET:HA	2.27	0.70
4:O:41:GLU:HA	4:O:45:ARG:HG3	1.71	0.70
5:P:420:ASP:O	5:P:422:LEU:HD23	1.90	0.70
2:C:139:GLN:HE22	2:C:415:PRO:CD	2.04	0.70
2:C:194:VAL:HG22	2:C:221:LEU:HD12	1.71	0.70
2:M:428:ARG:NH2	2:M:449:ILE:HG22	2.05	0.70
2:M:689:VAL:HG23	2:M:870:ILE:HB	1.73	0.70
4:E:25:LYS:HA	4:E:28:GLN:NE2	2.06	0.70
3:N:1043:GLY:O	3:N:1057:VAL:N	2.24	0.70
3:N:1336:LEU:HA	3:N:1340:GLY:O	1.90	0.70
3:N:466:LYS:HG2	3:N:510:GLU:HG2	1.71	0.70
3:D:984:THR:HG22	3:D:987:GLU:HG3	1.74	0.70
6:M:1120:STD:H312	3:N:1086:LEU:HD13	1.73	0.70
2:M:732:ALA:O	2:M:735:ARG:HG3	1.91	0.70
3:N:138:LYS:N	3:N:138:LYS:HD2	2.06	0.70
3:N:809:PRO:CB	3:N:812:ALA:HB2	2.18	0.70
3:N:951:ILE:HD13	3:N:951:ILE:O	1.92	0.70
4:O:24:ALA:O	4:O:28:GLN:HG3	1.91	0.70
2:C:383:ARG:HB2	2:C:383:ARG:NH1	2.06	0.70
3:D:1155:VAL:HG11	3:D:1177:ALA:CB	2.22	0.70
2:C:1093:GLN:HG2	3:D:21:TRP:CH2	2.26	0.70
1:K:218:LEU:O	1:K:222:LEU:HD22	1.92	0.70
2:M:265:ARG:HG3	2:M:288:ARG:CG	2.21	0.70
3:N:1275:SER:HB2	3:N:1325:LEU:HD11	1.72	0.70
3:N:1277:ILE:HG22	3:N:1278:ASP:N	2.05	0.70
3:N:409:VAL:O	3:N:411:THR:HG23	1.91	0.70
1:B:189:ARG:HG3	1:B:189:ARG:HH11	1.55	0.70
1:B:97:VAL:HG11	1:B:120:VAL:HG21	1.72	0.70
2:C:1092:LEU:HD13	2:C:1099:VAL:HG21	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:141:ILE:HG12	3:D:449:SER:HA	1.71	0.70
3:D:565:ILE:HD12	3:D:565:ILE:N	2.04	0.70
1:K:39:PRO:O	1:K:43:ILE:HG12	1.91	0.70
2:M:106:GLY:O	2:M:107:LEU:HD23	1.91	0.70
2:M:575:GLN:OE1	2:M:670:GLN:HG2	1.92	0.70
3:N:1058:ARG:HH11	3:N:1058:ARG:HG3	1.57	0.70
3:N:225:LEU:HB2	3:N:227:LEU:CD2	2.22	0.70
3:N:465:LEU:CD1	3:N:513:ILE:HD11	2.21	0.70
3:N:646:LYS:HA	3:N:720:LEU:HD22	1.73	0.70
3:D:1398:TRP:CZ3	3:D:1415:VAL:HG11	2.27	0.70
3:D:215:TYR:HE2	3:D:375:GLU:HG2	1.56	0.70
3:N:1109:GLU:CB	3:N:1201:CYS:HA	2.22	0.70
3:N:82:LYS:NZ	5:P:339:PRO:HG2	2.07	0.70
3:N:860:LEU:HA	3:N:877:PRO:HB2	1.72	0.70
2:C:462:ASP:CG	2:C:463:GLU:H	1.95	0.70
2:C:650:ARG:HD3	2:C:650:ARG:N	2.05	0.70
3:D:10:ILE:HG13	3:D:1434:TRP:CZ2	2.27	0.70
3:D:1399:ASP:O	3:D:1403:LEU:HD12	1.91	0.70
3:D:562:ALA:HB1	3:D:567:ILE:HD11	1.74	0.70
2:M:1087:VAL:O	2:M:1091:GLU:HG3	1.90	0.70
3:N:1336:LEU:HD12	3:N:1340:GLY:C	2.11	0.70
1:A:219:ARG:HH22	1:B:219:ARG:HD2	1.56	0.70
2:C:383:ARG:HH11	2:C:383:ARG:HB2	1.57	0.70
2:C:551:GLU:HB3	2:C:906:PHE:CD2	2.27	0.70
3:D:1462:LEU:HD23	3:D:1473:PRO:HD2	1.74	0.70
3:D:168:THR:HG22	3:D:170:PRO:HD3	1.73	0.70
3:D:419:ASP:O	3:D:421:LEU:HD23	1.92	0.70
3:D:141:ILE:HD11	3:D:450:TYR:N	2.05	0.70
3:D:87:ARG:HB3	3:D:523:ASP:CB	2.22	0.70
1:L:106:PRO:HG3	1:L:134:GLU:OE1	1.91	0.70
2:M:1015:LEU:HD13	2:M:1016:ILE:N	2.07	0.70
3:N:528:VAL:HG12	3:N:529:GLN:N	2.06	0.70
5:F:291:ILE:HD13	5:F:304:VAL:HG11	1.74	0.69
2:M:348:LEU:O	2:M:351:LEU:HB3	1.90	0.69
3:N:583:ASP:OD1	3:N:604:THR:HB	1.92	0.69
3:N:817:GLU:O	3:N:821:VAL:HG23	1.92	0.69
1:A:197:LEU:HD23	1:A:197:LEU:N	1.98	0.69
1:B:206:THR:HG23	1:B:207:PRO:HD2	1.74	0.69
2:M:420:ARG:HD2	2:M:420:ARG:H	1.55	0.69
3:N:1292:VAL:HG11	3:N:1325:LEU:HD23	1.74	0.69
3:N:382:GLU:HG2	3:N:383:GLY:N	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1085:PHE:O	2:M:1088:LEU:HB3	1.92	0.69
2:M:325:ILE:CD1	2:M:325:ILE:H	1.95	0.69
3:N:1472:ILE:O	3:N:1477:GLY:HA3	1.91	0.69
3:N:231:VAL:HB	3:N:378:ILE:CG2	2.22	0.69
5:P:367:MET:O	5:P:370:LYS:HG2	1.91	0.69
1:B:56:VAL:HG22	1:B:142:VAL:HG12	1.75	0.69
2:C:289:THR:CG2	2:C:290:LEU:HD23	2.21	0.69
2:C:49:ARG:HH11	2:C:49:ARG:HB2	1.58	0.69
2:C:607:ASP:C	2:C:609:ASN:H	1.94	0.69
3:D:368:VAL:HG12	3:D:369:ALA:H	1.56	0.69
3:D:31:THR:HG23	3:D:45:PHE:CE2	2.27	0.69
3:D:613:ARG:HH11	3:D:613:ARG:HG3	1.57	0.69
5:F:287:THR:CG2	5:F:289:GLU:HB2	2.22	0.69
5:F:353:GLU:HG2	5:F:417:LYS:HB3	1.73	0.69
1:L:220:GLU:O	1:L:223:THR:HG22	1.92	0.69
2:M:304:LEU:HB3	2:M:305:PRO:HD3	1.74	0.69
2:M:479:VAL:HG23	2:M:506:ASN:O	1.93	0.69
2:M:838:LYS:HG3	2:M:997:LEU:HB2	1.74	0.69
3:N:225:LEU:O	3:N:227:LEU:HD22	1.92	0.69
1:B:212:ASN:O	1:B:215:VAL:HG22	1.93	0.69
2:C:95:TYR:CD2	2:C:114:PHE:HB3	2.26	0.69
2:C:564:MET:HE2	2:C:846:LYS:HE2	1.73	0.69
3:D:27:GLU:O	3:D:28:LYS:HG3	1.91	0.69
1:K:86:VAL:HG12	1:K:124:ASN:HD22	1.57	0.69
2:M:1103:ASP:CG	2:M:1104:GLU:H	1.95	0.69
2:M:564:MET:HA	2:M:564:MET:HE2	1.72	0.69
3:N:1011:PHE:CD2	3:N:1021:TYR:HB2	2.27	0.69
3:N:1340:GLY:O	3:N:1344:VAL:HG23	1.93	0.69
2:C:602:GLU:HG2	2:C:603:VAL:N	2.00	0.69
3:D:1101:VAL:HG21	3:D:1424:VAL:HG13	1.74	0.69
3:D:798:GLU:HG2	3:D:799:LYS:N	2.06	0.69
5:F:346:THR:HG23	5:F:422:LEU:HB3	1.75	0.69
2:M:443:THR:HB	2:M:444:PRO:CD	2.22	0.69
3:N:168:THR:HG22	3:N:170:PRO:HD3	1.74	0.69
2:M:770:GLU:HG2	3:N:65:ARG:NH2	2.06	0.69
5:P:274:THR:HG21	5:P:295:MET:CE	2.22	0.69
2:C:700:TYR:HB2	2:C:833:LEU:HD22	1.74	0.69
1:K:224:TYR:CE1	1:L:9:PRO:HD2	2.28	0.69
2:M:523:ILE:HD13	2:M:523:ILE:C	2.13	0.69
3:N:1311:LEU:H	3:N:1311:LEU:HD23	1.56	0.69
2:C:52:PHE:CD2	2:C:68:PHE:HB2	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:549:PHE:HB3	2:C:552:HIS:HD2	1.58	0.69
3:D:1112:CYS:SG	3:D:1196:THR:HG23	2.32	0.69
3:D:172:PRO:CB	3:D:178:LEU:HD12	2.23	0.69
3:D:197:SER:CB	3:D:203:ALA:HB3	2.16	0.69
3:D:433:GLY:H	3:D:448:GLU:HA	1.58	0.69
3:D:729:HIS:HE1	3:D:731:LEU:HG	1.57	0.69
3:D:1488:ASP:HB3	4:E:39:VAL:HG12	1.74	0.69
2:M:515:ALA:O	2:M:516:ARG:HD3	1.92	0.69
3:N:540:LEU:HA	3:N:543:LEU:HD12	1.75	0.69
3:N:58:CYS:SG	3:N:59:ALA:N	2.66	0.69
1:B:25:LEU:C	1:B:25:LEU:HD23	2.13	0.69
1:A:224:TYR:HB3	1:B:9:PRO:HB2	1.73	0.69
2:C:1101:THR:C	2:C:1102:LEU:HD12	2.12	0.69
2:C:185:LYS:H	2:C:185:LYS:HE3	1.57	0.69
3:D:1372:VAL:HA	3:D:1375:MET:CE	2.23	0.69
3:D:217:LYS:HZ3	3:D:217:LYS:HB2	1.55	0.69
3:N:828:LYS:N	3:N:828:LYS:HD3	2.08	0.69
2:M:889:HIS:CE1	3:N:951:ILE:H	2.07	0.69
5:P:87:GLU:O	5:P:91:VAL:HB	1.93	0.69
3:D:373:PRO:HB2	3:D:374:GLU:CD	2.13	0.69
3:D:705:ALA:HB3	3:D:706:PRO:CD	2.22	0.69
5:F:358:LEU:HD21	5:F:370:LYS:HZ2	1.57	0.69
1:K:97:VAL:HG12	1:K:98:THR:N	2.08	0.69
2:M:288:ARG:HA	2:M:288:ARG:NE	2.08	0.69
2:M:44:ILE:HG23	2:M:344:PHE:CE1	2.26	0.69
2:M:834:GLN:O	2:M:837:ASP:HB2	1.91	0.69
3:N:1438:ALA:C	3:N:1440:PHE:H	1.96	0.69
5:P:100:VAL:HG12	5:P:104:ARG:HH21	1.57	0.69
5:P:356:LYS:O	5:P:360:LYS:HG2	1.93	0.69
1:A:18:ARG:O	1:A:207:PRO:HD3	1.93	0.69
2:C:64:LEU:HD12	2:C:101:ILE:O	1.93	0.69
2:C:944:LEU:HD21	2:C:963:LEU:HD23	1.74	0.69
2:M:139:GLN:HE22	2:M:414:GLY:HA3	1.58	0.69
2:M:226:VAL:HG22	2:M:230:ARG:HH22	1.58	0.69
2:M:350:ARG:HG2	2:M:350:ARG:HH11	1.58	0.69
3:N:1136:LYS:HD2	3:N:1139:ASP:OD1	1.93	0.69
3:N:875:THR:CG2	3:N:879:ARG:HG3	2.23	0.69
2:C:914:ILE:O	2:C:918:LEU:HD13	1.92	0.68
3:D:244:GLU:OE1	3:D:366:LYS:HG3	1.94	0.68
3:D:127:LEU:HD21	3:D:461:ILE:HD11	1.75	0.68
4:E:46:PRO:HB3	4:E:54:LEU:CD2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:132:ARG:O	5:F:136:LEU:HG	1.93	0.68
5:F:358:LEU:HD11	5:F:370:LYS:HE3	1.74	0.68
1:L:38:ASN:O	1:L:41:ARG:HB3	1.92	0.68
2:M:159:ILE:HG22	2:M:175:GLU:HG3	1.74	0.68
1:B:133:GLU:HG3	1:B:134:GLU:H	1.58	0.68
1:B:3:ASP:O	1:B:7:LYS:HB2	1.93	0.68
2:C:776:SER:HA	2:C:780:GLU:HB3	1.75	0.68
3:D:1146:GLY:HA3	3:D:1207:TYR:HB2	1.76	0.68
3:D:1314:LYS:HZ1	3:D:1317:ASP:HB2	1.55	0.68
3:D:864:VAL:HG12	3:D:865:THR:N	2.09	0.68
5:F:386:VAL:HG13	5:F:387:GLY:N	2.06	0.68
1:K:11:PHE:O	1:L:228:PRO:HA	1.93	0.68
2:M:860:HIS:NE2	2:M:975:TYR:HB2	2.08	0.68
2:M:981:GLU:HB3	2:M:982:PRO:CD	2.23	0.68
3:N:1356:TYR:CD1	3:N:1363:LEU:HD21	2.27	0.68
1:A:86:VAL:CG1	1:A:124:ASN:HB2	2.24	0.68
2:C:1090:LYS:HD2	3:D:90:MET:HG3	1.75	0.68
3:D:1041:LEU:HB2	3:D:1058:ARG:O	1.92	0.68
3:D:116:LEU:HB3	3:D:118:LEU:CD1	2.19	0.68
3:D:1229:ILE:HD11	3:D:1367:HIS:HB3	1.73	0.68
3:D:544:TYR:CD1	3:D:581:LEU:HD22	2.29	0.68
3:D:616:GLN:HG2	3:D:619:LEU:HD22	1.74	0.68
2:M:474:VAL:HG23	2:M:478:VAL:O	1.93	0.68
3:N:187:LYS:CE	3:N:213:VAL:H	2.06	0.68
5:P:88:ILE:CD1	5:P:193:ARG:HB2	2.20	0.68
1:B:28:LEU:O	1:B:192:LEU:HD22	1.92	0.68
2:C:1044:GLY:O	2:C:1046:ALA:N	2.27	0.68
2:C:881:ASN:HD22	2:C:881:ASN:H	1.40	0.68
3:D:211:VAL:HG12	3:D:212:ARG:H	1.58	0.68
3:D:765:SER:O	3:D:767:HIS:N	2.27	0.68
1:K:214:ALA:HA	1:K:217:ILE:HD12	1.76	0.68
2:M:129:ILE:CG2	2:M:130:ASN:N	2.55	0.68
3:N:413:ASP:OD1	3:N:444:VAL:HG21	1.93	0.68
3:N:125:GLN:HE22	3:N:587:ARG:NH2	1.92	0.68
1:B:206:THR:HB	1:B:209:GLU:CG	2.21	0.68
2:C:488:ALA:O	2:C:491:GLU:HB3	1.93	0.68
3:N:119:SER:H	3:N:123:LEU:CD1	2.02	0.68
3:N:1219:GLU:HG2	3:N:1221:VAL:HG23	1.73	0.68
3:N:1459:LEU:HD12	3:N:1470:ARG:NH1	2.08	0.68
5:P:394:ARG:H	5:P:394:ARG:CD	2.00	0.68
2:C:690:ILE:O	2:C:858:MET:HE1	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1396:GLU:HG2	3:D:1399:ASP:HB2	1.76	0.68
3:D:223:LEU:HD13	3:D:365:ASP:H	1.59	0.68
3:D:728:LEU:HD12	3:D:729:HIS:H	1.59	0.68
5:F:416:ARG:NH2	5:F:419:ARG:HG2	2.09	0.68
3:N:237:LYS:HE2	3:N:238:PRO:HG3	1.76	0.68
3:N:522:PRO:HA	3:N:525:ARG:HH11	1.58	0.68
3:N:702:LEU:HD22	3:N:716:PHE:CD1	2.28	0.68
5:P:77:THR:O	5:P:80:PRO:HD2	1.94	0.68
1:A:197:LEU:H	1:A:197:LEU:CD2	1.92	0.68
2:C:203:ASP:OD1	2:C:206:THR:HG22	1.93	0.68
3:D:1266:ARG:O	3:D:1268:PRO:HD3	1.93	0.68
3:D:1462:LEU:CD2	3:D:1473:PRO:HD2	2.23	0.68
3:D:669:ASN:O	3:D:672:ALA:HB3	1.93	0.68
5:F:153:PRO:O	5:F:156:VAL:HG22	1.93	0.68
1:L:188:GLN:HG3	1:L:189:ARG:H	1.58	0.68
2:M:897:LEU:HB3	2:M:899:GLN:HE21	1.59	0.68
2:M:950:LEU:HD12	2:M:952:LEU:HD21	1.74	0.68
3:N:192:ALA:O	3:N:195:VAL:HG23	1.94	0.68
3:N:28:LYS:HG2	3:N:41:ARG:HD2	1.75	0.68
1:B:58:ILE:HG21	1:B:68:ILE:HD11	1.76	0.68
2:C:397:GLU:HG2	2:C:633:GLN:HE21	1.59	0.68
4:E:23:VAL:HG22	4:E:64:ALA:CB	2.23	0.68
3:N:1279:GLY:O	3:N:1318:TYR:HA	1.93	0.68
3:N:850:LEU:HA	3:N:853:VAL:HG23	1.74	0.68
4:O:26:ARG:NH2	4:O:39:VAL:HG13	2.06	0.68
1:B:189:ARG:HD2	1:B:189:ARG:H	1.58	0.68
1:B:94:LEU:HD23	1:B:97:VAL:HG21	1.74	0.68
2:C:742:VAL:HG12	2:C:743:VAL:N	2.09	0.68
3:D:1258:ARG:NH1	3:D:1261:GLU:OE2	2.26	0.68
2:C:1043:TYR:HE1	3:D:710:ARG:O	1.77	0.68
5:F:278:LEU:HB3	5:F:286:PRO:CG	2.24	0.68
2:M:200:LEU:HD13	2:M:300:ASP:OD1	1.94	0.68
2:M:478:VAL:CG1	2:M:506:ASN:HD22	2.07	0.68
1:A:228:PRO:HB3	1:B:13:VAL:HG21	1.75	0.68
2:C:893:ALA:O	2:C:897:LEU:HB2	1.94	0.68
3:D:1399:ASP:O	3:D:1403:LEU:HB2	1.94	0.68
1:L:53:VAL:HA	1:L:144:VAL:HG22	1.75	0.68
2:M:26:TYR:O	2:M:29:ALA:HB3	1.93	0.68
3:N:558:LEU:HD13	5:P:145:PRO:HA	1.75	0.68
2:C:474:VAL:HG23	2:C:478:VAL:O	1.94	0.67
2:C:673:LEU:HG	2:C:867:VAL:HG12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1109:GLU:HG2	3:D:1201:CYS:HB2	1.75	0.67
3:D:824:ASN:O	3:D:826:PRO:HD3	1.93	0.67
3:N:573:MET:SD	5:P:210:LEU:HB3	2.33	0.67
5:P:361:LEU:HD21	5:P:408:LEU:CB	2.22	0.67
1:A:13:VAL:HG12	1:A:14:ARG:N	2.08	0.67
2:C:873:PRO:O	2:C:875:GLY:N	2.27	0.67
1:K:75:VAL:O	1:K:79:ILE:HG23	1.94	0.67
3:N:215:TYR:HD1	3:N:390:PRO:HD2	1.59	0.67
1:B:7:LYS:HE3	1:B:186:LEU:HD22	1.76	0.67
3:D:1068:LEU:O	3:D:1072:ILE:HG12	1.94	0.67
3:D:1237:THR:HA	3:D:1255:GLY:HA3	1.76	0.67
2:M:470:PRO:HG3	2:M:485:TYR:CZ	2.29	0.67
2:M:640:ARG:HD3	2:M:642:ARG:NH2	2.09	0.67
3:N:47:GLU:OE1	3:N:53:ILE:HG22	1.94	0.67
1:A:206:THR:CG2	1:A:209:GLU:H	2.08	0.67
2:C:697:ARG:O	2:C:699:PHE:N	2.28	0.67
3:D:640:HIS:NE2	3:D:717:GLN:NE2	2.42	0.67
3:N:486:ARG:HE	3:N:489:ARG:HD3	1.60	0.67
1:A:186:LEU:HB2	1:A:192:LEU:CD1	2.23	0.67
2:C:710:ILE:HD11	2:C:758:ARG:CZ	2.25	0.67
3:D:520:LEU:HD12	3:D:521:PRO:CD	2.22	0.67
3:D:651:GLU:O	3:D:654:LYS:HB2	1.95	0.67
3:D:79:GLU:O	3:D:80:VAL:HB	1.94	0.67
3:D:820:GLU:HG2	3:D:825:ALA:O	1.94	0.67
3:D:986:ARG:O	3:D:990:ASP:OD1	2.11	0.67
3:D:754:PHE:CD1	4:E:24:ALA:HB1	2.30	0.67
2:M:95:TYR:CE2	2:M:114:PHE:HB3	2.29	0.67
3:N:185:VAL:HG13	3:N:189:GLN:OE1	1.95	0.67
3:N:483:HIS:HB2	3:N:484:PRO:HD3	1.76	0.67
3:N:760:ARG:HE	4:O:3:GLU:CD	1.97	0.67
5:P:416:ARG:CZ	5:P:419:ARG:HD2	2.25	0.67
1:A:98:THR:C	1:A:99:LEU:HD12	2.15	0.67
2:C:658:GLY:H	2:C:661:SER:CB	2.05	0.67
3:D:435:VAL:HG22	3:D:446:VAL:HG13	1.76	0.67
3:D:434:ARG:H	3:D:447:VAL:HG22	1.58	0.67
3:D:702:LEU:HB3	3:D:745:MET:HG2	1.77	0.67
1:L:197:LEU:HD21	1:L:199:ILE:HG13	1.76	0.67
2:M:313:LEU:HD13	2:M:321:GLU:HG2	1.75	0.67
3:N:481:MET:CE	3:N:1388:ARG:HE	2.07	0.67
3:N:959:GLU:O	3:N:962:GLN:HB2	1.95	0.67
2:M:1015:LEU:HB2	5:P:334:PRO:O	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:27:PRO:HG2	1:B:186:LEU:CD1	2.24	0.67
2:C:1030:GLN:O	3:D:622:ARG:HA	1.94	0.67
2:C:163:ILE:HG13	2:C:171:TRP:CZ3	2.30	0.67
3:D:1018:ASN:O	3:D:1022:VAL:HG23	1.94	0.67
3:D:1476:THR:HG22	3:D:1476:THR:O	1.94	0.67
3:D:396:VAL:HG22	3:D:447:VAL:HA	1.77	0.67
1:K:54:THR:CG2	1:K:54:THR:O	2.42	0.67
3:N:1432:LYS:HD2	3:N:1432:LYS:H	1.58	0.67
3:N:455:ARG:HH22	5:P:140:ARG:CB	2.07	0.67
2:C:1095:LEU:C	2:C:1097:LEU:H	1.98	0.67
2:C:480:THR:HG22	2:C:481:ASP:H	1.59	0.67
2:C:1050:GLN:NE2	3:D:1469:GLY:O	2.27	0.67
3:D:724:GLN:HG2	3:D:724:GLN:O	1.95	0.67
3:D:79:GLU:HG2	3:D:80:VAL:H	1.58	0.67
3:D:984:THR:CG2	3:D:987:GLU:H	2.08	0.67
1:K:206:THR:HG22	1:K:209:GLU:N	2.09	0.67
1:K:41:ARG:NH1	1:K:177:VAL:O	2.28	0.67
3:N:481:MET:O	3:N:489:ARG:HB2	1.94	0.67
3:N:525:ARG:N	3:N:526:PRO:HD3	2.09	0.67
5:P:274:THR:HG21	5:P:295:MET:HE2	1.74	0.67
5:P:367:MET:HA	5:P:370:LYS:CD	2.23	0.67
2:C:595:LEU:HD13	2:C:639:GLN:OE1	1.95	0.67
3:D:1109:GLU:HG2	3:D:1201:CYS:CA	2.25	0.67
3:D:222:GLY:HA2	3:D:365:ASP:O	1.94	0.67
3:D:959:GLU:HB2	3:D:963:TYR:CE1	2.30	0.67
1:K:25:LEU:HD22	1:L:225:PHE:CZ	2.29	0.67
2:M:186:VAL:HG23	2:M:187:ASN:H	1.60	0.67
2:M:577:PRO:HA	2:M:671:ASN:HD21	1.60	0.67
2:M:927:GLY:HA2	2:M:930:LYS:NZ	2.10	0.67
3:N:1468:LEU:HD22	3:N:1470:ARG:HB2	1.77	0.67
3:N:387:LEU:HD23	3:N:388:HIS:N	2.10	0.67
3:N:705:ALA:CB	3:N:706:PRO:HD3	2.23	0.67
2:C:1032:PHE:CZ	2:C:1040:LEU:HD22	2.28	0.67
3:D:1020:LEU:HD12	3:D:1023:MET:CE	2.25	0.67
3:D:116:LEU:HD23	3:D:468:LEU:HD11	1.77	0.67
3:D:828:LYS:H	3:D:828:LYS:HD3	1.60	0.67
3:N:12:LEU:HD21	3:N:104:PHE:CZ	2.30	0.67
3:N:701:LEU:HD21	3:N:763:MET:HE1	1.77	0.67
3:D:709:HIS:ND1	3:D:1231:GLU:HG3	2.10	0.66
5:F:287:THR:HG22	5:F:290:GLU:CD	2.15	0.66
5:F:291:ILE:HG21	5:F:304:VAL:HG11	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1118:ILE:HG23	3:N:1346:ARG:HE	1.60	0.66
3:N:592:THR:HG23	3:N:600:LEU:HD22	1.77	0.66
1:A:189:ARG:HD3	1:A:191:ASP:OD1	1.95	0.66
1:A:213:GLN:O	1:A:217:ILE:HG13	1.95	0.66
2:C:495:THR:CG2	2:C:517:ARG:HE	2.08	0.66
2:C:838:LYS:HG3	2:C:997:LEU:HB2	1.77	0.66
3:D:1109:GLU:CG	3:D:1201:CYS:HB2	2.25	0.66
3:D:795:VAL:HG12	3:D:796:ARG:N	2.09	0.66
3:N:154:THR:HG22	3:N:155:ASP:H	1.59	0.66
5:P:367:MET:O	5:P:371:LEU:HG	1.94	0.66
1:A:18:ARG:HH12	1:A:88:ARG:CZ	2.09	0.66
2:C:338:GLU:HA	2:C:341:THR:HG22	1.78	0.66
2:C:854:PRO:HB2	2:C:856:GLU:HG2	1.78	0.66
3:D:1155:VAL:HG21	3:D:1183:ILE:HD11	1.75	0.66
3:D:1310:ARG:NE	3:D:1327:ARG:HB3	2.10	0.66
3:D:186:VAL:HG21	3:D:213:VAL:N	2.11	0.66
3:D:542:ASP:O	3:D:546:ARG:HG2	1.95	0.66
3:D:551:ASN:O	3:D:554:LEU:HB3	1.94	0.66
3:D:704:ARG:CD	3:D:705:ALA:H	2.09	0.66
1:K:183:ASP:OD1	2:M:938:LYS:HE3	1.95	0.66
2:M:573:ARG:O	2:M:574:ALA:O	2.13	0.66
3:N:1314:LYS:NZ	3:N:1317:ASP:OD2	2.27	0.66
3:N:245:LEU:HD11	3:N:248:PRO:HG2	1.76	0.66
5:F:194:LEU:HD13	5:F:194:LEU:O	1.95	0.66
1:K:91:ASN:CG	1:K:92:PRO:HD2	2.15	0.66
3:N:1046:GLN:HE22	3:N:1050:GLY:HA2	1.61	0.66
3:N:699:VAL:HA	3:N:718:PRO:HD3	1.77	0.66
5:P:88:ILE:CG2	5:P:193:ARG:HH11	2.08	0.66
1:A:101:LEU:HD11	1:A:109:VAL:HG13	1.77	0.66
1:A:115:LEU:O	1:A:115:LEU:HD12	1.96	0.66
2:C:139:GLN:OE1	2:C:415:PRO:HD3	1.95	0.66
2:C:599:GLU:HG2	2:C:600:ASP:N	2.09	0.66
3:D:131:LYS:HG3	3:D:568:ARG:CG	2.23	0.66
3:D:630:VAL:HA	3:D:744:GLN:HG2	1.77	0.66
5:F:133:ALA:HA	5:F:136:LEU:CD1	2.25	0.66
5:F:371:LEU:HA	5:F:375:LEU:H	1.59	0.66
1:K:143:ARG:O	1:K:144:VAL:HG23	1.94	0.66
2:M:199:VAL:HG21	2:M:238:LEU:HD12	1.77	0.66
3:N:1114:THR:OG1	3:N:1195:GLN:HB2	1.95	0.66
3:N:584:ASN:ND2	3:N:590:PRO:HD2	2.10	0.66
3:N:771:SER:HB2	3:N:778:LEU:HD22	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:134:LYS:HB2	5:P:178:ARG:NH1	2.11	0.66
2:C:29:ALA:O	2:C:44:ILE:HD13	1.95	0.66
3:D:493:ARG:NH2	3:D:1389:LEU:HD11	2.10	0.66
2:M:432:ARG:HH22	3:N:1047:LYS:CD	2.02	0.66
2:M:610:ARG:HG3	2:M:610:ARG:HH11	1.60	0.66
5:P:368:VAL:O	5:P:371:LEU:HB2	1.94	0.66
5:P:77:THR:C	5:P:80:PRO:HD2	2.16	0.66
5:P:93:LEU:HD13	5:P:99:GLU:HG2	1.78	0.66
1:A:39:PRO:HG3	1:B:39:PRO:HG3	1.76	0.66
2:C:395:LYS:CE	2:C:407:LYS:HZ2	2.09	0.66
2:C:607:ASP:HB2	2:C:610:ARG:HG3	1.78	0.66
3:D:1033:GLN:OE1	3:D:1036:ARG:NH1	2.28	0.66
3:D:1209:LEU:HD23	3:D:1210:SER:H	1.60	0.66
4:E:54:LEU:HG	4:E:58:PRO:HB2	1.78	0.66
1:K:43:ILE:HD11	1:L:35:THR:HG21	1.75	0.66
2:M:451:LEU:O	2:M:452:ILE:HG23	1.95	0.66
1:B:175:ARG:NH1	1:B:202:ASP:HB3	2.09	0.66
2:C:1049:LEU:O	2:C:1053:LEU:HD23	1.95	0.66
2:C:417:GLY:O	2:C:418:LEU:HD13	1.95	0.66
2:C:768:THR:HB	2:C:771:GLU:HB3	1.77	0.66
3:D:1192:LEU:HD22	3:D:1345:GLU:CD	2.15	0.66
3:D:947:ILE:HG13	3:D:947:ILE:O	1.96	0.66
5:F:136:LEU:CD1	5:F:137:GLY:H	2.07	0.66
5:F:137:GLY:HA2	5:F:140:ARG:NH2	2.11	0.66
2:M:252:LYS:HE2	2:M:296:GLY:CA	2.26	0.66
3:N:422:ALA:HB3	3:N:427:VAL:CG2	2.26	0.66
3:N:493:ARG:HE	3:N:1389:LEU:HD21	1.61	0.66
3:N:98:PRO:HG3	3:N:515:GLU:HB3	1.78	0.66
2:M:1056:LYS:HE3	3:N:751:LEU:HG	1.76	0.66
3:N:777:PRO:HG2	3:N:912:LYS:O	1.95	0.66
3:N:426:LYS:NZ	5:P:138:SER:HA	2.10	0.66
2:C:129:ILE:HG22	2:C:130:ASN:CG	2.16	0.66
2:C:508:ILE:HG21	2:C:513:VAL:HG21	1.78	0.66
2:C:673:LEU:CD2	2:C:867:VAL:HA	2.15	0.66
2:C:857:ASP:O	2:C:978:ARG:HG3	1.96	0.66
5:F:291:ILE:HD13	5:F:304:VAL:CG1	2.25	0.66
2:M:21:ILE:CD1	2:M:21:ILE:H	2.08	0.66
2:M:302:VAL:O	2:M:305:PRO:HD2	1.95	0.66
3:N:195:VAL:O	3:N:205:TYR:HD1	1.79	0.66
1:B:57:TYR:CE1	1:B:163:ASN:HB2	2.31	0.66
2:C:102:HIS:C	2:C:104:ASP:H	1.98	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:498:VAL:O	3:D:501:ALA:HB3	1.96	0.66
2:C:1095:LEU:HG	3:D:603:LEU:HD13	1.78	0.66
3:D:661:MET:CE	3:D:673:ALA:HB1	2.26	0.66
3:D:704:ARG:HD2	3:D:705:ALA:H	1.60	0.66
3:D:761:ILE:CD1	4:E:23:VAL:HG11	2.25	0.66
5:F:358:LEU:HD11	5:F:370:LYS:HZ1	1.61	0.66
2:M:606:VAL:HG22	2:M:645:VAL:HG13	1.77	0.66
3:N:957:PRO:HG3	3:N:1007:VAL:HA	1.78	0.66
3:N:1115:THR:HG22	3:N:1151:ARG:HH21	1.60	0.66
3:N:1158:VAL:HG12	3:N:1159:ARG:N	2.11	0.66
3:N:1205:TYR:CE1	3:N:1221:VAL:HG11	2.30	0.66
3:N:162:ARG:HG3	3:N:434:ARG:CZ	2.26	0.66
3:N:74:GLU:HB3	3:N:75:ARG:NH2	2.11	0.66
3:N:885:ILE:HD13	3:N:937:TYR:CG	2.31	0.66
1:A:1:MET:HB2	1:A:6:LEU:HB2	1.79	0.65
2:C:101:ILE:HG23	2:C:107:LEU:HD22	1.77	0.65
2:C:397:GLU:H	2:C:633:GLN:CD	1.99	0.65
2:C:964:LYS:HG2	2:C:968:LEU:CD1	2.26	0.65
3:D:1150:ALA:HB3	3:D:1187:PRO:HB2	1.78	0.65
3:D:584:ASN:ND2	3:D:590:PRO:CD	2.56	0.65
3:D:788:GLY:O	3:D:792:ILE:HG22	1.96	0.65
5:F:157:GLU:O	5:F:161:GLN:HG3	1.96	0.65
1:K:59:GLU:HG3	1:K:60:ASP:N	2.11	0.65
2:M:300:ASP:HB2	2:M:303:PHE:HB2	1.76	0.65
2:M:605:LYS:CB	2:M:610:ARG:HH12	2.09	0.65
2:M:838:LYS:HD3	2:M:846:LYS:NZ	2.10	0.65
3:N:1252:ILE:HD12	3:N:1252:ILE:H	1.62	0.65
3:N:416:ALA:H	3:N:417:PRO:CD	2.07	0.65
3:N:468:LEU:O	3:N:468:LEU:HD12	1.96	0.65
2:C:202:TYR:OH	2:C:304:LEU:HD22	1.96	0.65
2:C:575:GLN:HA	2:C:662:GLU:OE2	1.96	0.65
2:C:969:GLN:NE2	2:C:971:LYS:HE2	2.12	0.65
3:D:1145:TYR:CD2	3:D:1146:GLY:N	2.64	0.65
3:D:792:ILE:HD12	3:D:941:PHE:CE1	2.31	0.65
3:N:76:CYS:SG	3:N:78:VAL:HG23	2.36	0.65
3:D:74:GLU:HB2	3:D:75:ARG:NH1	2.12	0.65
3:N:1372:VAL:HA	3:N:1375:MET:CE	2.27	0.65
1:A:62:LEU:HD12	1:A:62:LEU:N	2.07	0.65
2:C:1074:GLU:HG2	2:C:1075:ASP:H	1.62	0.65
2:C:239:PHE:HE2	2:C:253:ALA:HB3	1.61	0.65
2:C:588:VAL:CG2	2:C:589:ARG:N	2.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:754:PHE:O	3:D:757:ALA:HB3	1.96	0.65
1:K:41:ARG:O	1:K:45:LEU:HD12	1.95	0.65
2:M:100:LEU:O	2:M:101:ILE:HD13	1.96	0.65
2:M:1089:VAL:HG13	2:M:1099:VAL:CG2	2.26	0.65
2:M:1091:GLU:O	2:M:1094:ALA:HB3	1.96	0.65
2:M:146:VAL:CG1	2:M:162:ILE:HG12	2.26	0.65
2:M:603:VAL:HG23	2:M:647:GLN:O	1.97	0.65
3:N:1147:ARG:HB2	3:N:1166:LEU:HD21	1.79	0.65
3:N:657:LEU:HG	3:N:661:MET:CE	2.26	0.65
1:L:176:ARG:HH22	3:N:884:ARG:CD	2.10	0.65
5:P:415:THR:HG22	5:P:417:LYS:HG3	1.78	0.65
1:B:87:VAL:HG12	1:B:122:ILE:HG12	1.78	0.65
2:C:1008:ARG:HG2	2:C:1009:SER:N	2.11	0.65
2:C:461:VAL:CG1	2:C:465:GLY:HA2	2.27	0.65
2:C:534:VAL:N	2:C:538:GLN:NE2	2.45	0.65
3:D:1123:PHE:HE2	3:D:1184:GLN:HA	1.60	0.65
3:D:1309:ALA:HB1	3:D:1326:THR:HG23	1.78	0.65
3:D:1422:MET:CE	3:D:1426:LYS:HG2	2.27	0.65
3:D:202:VAL:O	3:D:204:LEU:HG	1.96	0.65
5:F:402:ASN:O	5:F:406:ARG:HG3	1.97	0.65
1:K:64:GLU:HG2	1:K:64:GLU:O	1.97	0.65
2:M:18:LEU:HA	2:M:408:ARG:HH21	1.62	0.65
2:M:263:ASP:HB2	2:M:264:PRO:HD3	1.79	0.65
3:N:1282:ARG:HB3	3:N:1282:ARG:CZ	2.27	0.65
1:A:206:THR:CB	1:A:209:GLU:HG3	2.24	0.65
3:D:145:VAL:CG2	3:D:146:PRO:HD2	2.18	0.65
3:D:705:ALA:CB	3:D:706:PRO:CD	2.75	0.65
3:D:969:ARG:CB	3:D:969:ARG:HH11	2.02	0.65
5:F:358:LEU:HD11	5:F:370:LYS:NZ	2.10	0.65
3:N:770:LEU:HD11	3:N:919:PHE:CD2	2.32	0.65
1:A:9:PRO:HD2	1:B:224:TYR:CE1	2.32	0.65
2:C:1056:LYS:HD3	3:D:623:VAL:HG13	1.78	0.65
3:D:785:ILE:HD11	3:D:935:LYS:HA	1.77	0.65
5:F:256:ARG:NH2	5:F:260:ILE:HB	2.12	0.65
3:N:387:LEU:CG	5:P:97:GLU:HG2	2.27	0.65
3:N:584:ASN:CG	3:N:590:PRO:HD2	2.16	0.65
3:N:644:LEU:HD12	3:N:645:PRO:CD	2.25	0.65
3:N:975:GLU:OE1	3:N:988:ARG:NH1	2.29	0.65
4:O:40:LEU:HD12	4:O:40:LEU:O	1.96	0.65
2:C:930:LYS:HD3	2:C:960:GLU:OE1	1.96	0.65
3:D:368:VAL:HG12	3:D:369:ALA:N	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:8:VAL:HG12	3:D:9:ARG:N	2.12	0.65
2:M:266:ARG:HD2	2:M:266:ARG:N	2.09	0.65
2:M:480:THR:HG21	2:M:482:GLU:HB3	1.79	0.65
3:N:1155:VAL:HG11	3:N:1183:ILE:HD11	1.78	0.65
3:N:732:VAL:HB	3:N:736:PHE:CE1	2.29	0.65
2:C:358:ARG:HB3	2:C:372:LEU:HD12	1.79	0.65
3:D:796:ARG:C	3:D:797:LYS:HG3	2.17	0.65
3:D:561:GLY:HA3	5:F:184:ARG:HH22	1.62	0.65
1:L:154:GLU:CD	3:N:840:LYS:HG3	2.17	0.65
1:L:206:THR:HG22	1:L:209:GLU:H	1.62	0.65
4:O:41:GLU:H	4:O:42:PRO:HD2	1.61	0.65
3:D:1046:GLN:HE21	3:D:1052:THR:HG22	1.61	0.65
3:D:1064:GLY:O	3:D:1066:THR:N	2.30	0.65
3:D:108:VAL:CB	3:D:109:PRO:HD3	2.17	0.65
3:D:119:SER:HB2	3:D:123:LEU:HB2	1.80	0.65
3:D:1256:LEU:HB3	3:D:1257:PRO:HD3	1.79	0.65
3:D:1396:GLU:C	3:D:1398:TRP:H	2.00	0.65
3:D:25:GLU:HB2	3:D:92:HIS:CE1	2.32	0.65
3:D:373:PRO:HB2	3:D:374:GLU:OE1	1.97	0.65
3:D:561:GLY:HA3	5:F:184:ARG:HH12	1.62	0.65
3:D:642:CYS:HB3	3:D:716:PHE:CB	2.27	0.65
3:D:914:LEU:C	3:D:914:LEU:HD23	2.16	0.65
5:F:94:LEU:HD13	5:F:95:THR:N	2.12	0.65
2:M:62:GLY:O	2:M:103:LYS:HG3	1.96	0.65
2:M:805:ARG:HG3	2:M:823:VAL:HG22	1.78	0.65
3:N:122:GLU:O	3:N:126:VAL:HB	1.97	0.65
2:C:395:LYS:HE3	2:C:407:LYS:NZ	2.12	0.64
2:C:417:GLY:C	2:C:418:LEU:HD22	2.17	0.64
2:C:480:THR:HG21	2:C:482:GLU:HB3	1.79	0.64
2:C:49:ARG:HH11	2:C:49:ARG:CB	2.10	0.64
2:C:516:ARG:HH11	2:C:521:PRO:HA	1.61	0.64
2:C:675:ALA:HB2	2:C:867:VAL:HG11	1.78	0.64
3:D:1189:ARG:HB3	3:D:1189:ARG:HH11	1.60	0.64
3:D:1146:GLY:CA	3:D:1207:TYR:HB2	2.26	0.64
3:D:1428:ALA:O	3:D:1431:THR:HG23	1.96	0.64
3:D:1451:ALA:O	3:D:1454:GLY:N	2.28	0.64
3:D:177:ALA:C	3:D:199:LEU:HD13	2.18	0.64
3:D:658:LEU:O	3:D:661:MET:HB2	1.97	0.64
5:F:277:GLN:O	5:F:280:GLN:HB3	1.97	0.64
2:M:1054:THR:HG21	2:M:1079:PRO:HB3	1.78	0.64
2:M:332:ARG:CZ	2:M:464:LEU:HD11	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1057:VAL:HG13	3:N:1069:GLU:OE2	1.97	0.64
3:N:1189:ARG:NE	3:N:1204:CYS:SG	2.69	0.64
3:N:119:SER:O	3:N:121:THR:N	2.30	0.64
3:D:486:ARG:HA	3:D:489:ARG:HD3	1.79	0.64
3:D:864:VAL:HG12	3:D:865:THR:H	1.63	0.64
3:D:876:SER:OG	3:D:879:ARG:HG3	1.97	0.64
4:E:45:ARG:HB3	4:E:46:PRO:HD2	1.78	0.64
4:E:45:ARG:HH22	4:E:72:ARG:HH22	1.44	0.64
5:F:350:LEU:CD1	5:F:422:LEU:HD12	2.26	0.64
1:L:2:LEU:HD12	1:L:3:ASP:H	1.61	0.64
2:M:1044:GLY:C	2:M:1046:ALA:H	1.99	0.64
2:M:332:ARG:NH1	2:M:464:LEU:HD21	2.12	0.64
2:M:139:GLN:NE2	2:M:415:PRO:HD3	2.02	0.64
3:N:1271:LYS:HZ1	3:N:1334:GLN:HE22	1.45	0.64
3:N:1378:TYR:O	3:N:1420:LEU:HB3	1.97	0.64
3:N:166:GLN:HB3	3:N:395:VAL:HG23	1.79	0.64
3:N:522:PRO:HA	3:N:525:ARG:NH1	2.12	0.64
2:M:1005:MET:CB	3:N:629:SER:HB2	2.27	0.64
3:N:773:ALA:O	3:N:774:SER:HB3	1.98	0.64
5:P:94:LEU:HD13	5:P:95:THR:N	2.13	0.64
2:C:1111:ILE:HG13	2:C:1112:PHE:N	2.12	0.64
2:C:153:ALA:O	2:C:155:PRO:HD3	1.97	0.64
3:D:385:VAL:HG13	3:D:385:VAL:O	1.97	0.64
3:D:477:LEU:HA	3:D:480:GLU:CB	2.25	0.64
3:D:32:ILE:HD12	3:D:527:MET:HG2	1.79	0.64
3:D:554:LEU:HD23	3:D:574:LEU:HD22	1.79	0.64
3:D:739:ASP:OD1	3:D:743:ASP:OD2	2.16	0.64
3:N:1209:LEU:HD13	3:N:1215:VAL:HA	1.79	0.64
3:N:890:VAL:HG23	3:N:890:VAL:O	1.97	0.64
3:N:536:ALA:HB2	5:P:315:VAL:CG1	2.27	0.64
1:A:99:LEU:N	1:A:99:LEU:HD12	2.12	0.64
3:D:790:TYR:CE1	3:D:1022:VAL:HG13	2.32	0.64
3:D:1063:GLU:CG	3:D:1064:GLY:H	2.09	0.64
3:D:853:VAL:HA	3:D:858:VAL:O	1.98	0.64
4:E:54:LEU:CG	4:E:58:PRO:HG2	2.27	0.64
2:M:1090:LYS:HE2	2:M:1090:LYS:HA	1.79	0.64
2:M:325:ILE:N	2:M:325:ILE:HD12	2.03	0.64
2:M:693:GLU:HA	2:M:696:LYS:CD	2.24	0.64
3:N:1324:PRO:HG3	3:N:1330:ILE:HD11	1.78	0.64
3:N:434:ARG:HG2	3:N:447:VAL:HG21	1.79	0.64
4:O:39:VAL:HG22	4:O:67:GLU:OE2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:458:TYR:HB3	2:C:470:PRO:HG2	1.79	0.64
2:C:722:ILE:CD1	2:C:823:VAL:HG21	2.27	0.64
1:L:91:ASN:O	1:L:94:LEU:HD12	1.97	0.64
3:N:428:LYS:CE	3:N:451:ASP:HB3	2.27	0.64
3:N:543:LEU:O	3:N:546:ARG:HB2	1.97	0.64
2:C:1067:TYR:CG	5:F:341:PRO:HB3	2.32	0.64
3:D:1151:ARG:HA	3:D:1162:GLU:CG	2.26	0.64
3:D:159:ARG:HB2	3:D:159:ARG:HH11	1.59	0.64
3:D:373:PRO:HG2	3:D:374:GLU:H	1.62	0.64
3:D:378:ILE:N	3:D:378:ILE:HD13	2.09	0.64
1:K:189:ARG:NH1	1:L:155:LYS:NZ	2.45	0.64
2:M:571:LEU:HD12	2:M:571:LEU:N	2.13	0.64
2:M:759:THR:HB	2:M:785:VAL:HG11	1.78	0.64
1:L:176:ARG:HH12	3:N:884:ARG:HD3	1.61	0.64
5:P:401:GLU:O	5:P:405:LEU:HB3	1.97	0.64
3:D:1167:SER:O	3:D:1171:VAL:HG23	1.98	0.64
3:D:1326:THR:HG22	3:D:1327:ARG:N	2.12	0.64
3:D:93:ILE:CD1	3:D:548:ILE:HD11	2.27	0.64
4:E:48:MET:HB2	4:E:54:LEU:HB2	1.78	0.64
2:M:291:ALA:O	2:M:292:ARG:HB2	1.98	0.64
1:A:35:THR:HG21	1:B:43:ILE:CD1	2.24	0.64
1:A:70:GLY:H	2:C:607:ASP:CG	2.00	0.64
3:D:1007:VAL:HG23	3:D:1008:PHE:N	2.13	0.64
3:D:1474:ALA:O	3:D:1477:GLY:N	2.31	0.64
3:D:598:ARG:HD2	3:D:599:PRO:HD2	1.78	0.64
3:D:616:GLN:CA	3:D:619:LEU:HB3	2.27	0.64
1:K:59:GLU:CG	1:K:60:ASP:H	2.07	0.64
1:K:224:TYR:HB3	1:L:9:PRO:HB2	1.79	0.64
2:M:207:LEU:HD22	2:M:221:LEU:HD22	1.78	0.64
3:N:245:LEU:HD12	3:N:249:TYR:HB2	1.79	0.64
5:P:295:MET:HA	5:P:295:MET:CE	2.26	0.64
1:B:86:VAL:HG13	1:B:123:MET:HB2	1.78	0.64
1:B:122:ILE:HG22	1:B:124:ASN:H	1.63	0.64
2:C:1083:GLU:O	2:C:1087:VAL:HG23	1.98	0.64
2:C:111:ASP:O	2:C:113:VAL:HG23	1.98	0.64
2:C:442:GLU:OE2	2:C:543:ASN:HB2	1.98	0.64
2:C:441:VAL:O	2:C:559:LEU:HD13	1.98	0.64
3:D:1155:VAL:HG11	3:D:1183:ILE:HD11	1.79	0.64
3:D:661:MET:HE3	3:D:673:ALA:HB1	1.79	0.64
1:K:53:VAL:HG21	1:K:82:LEU:O	1.98	0.64
1:L:197:LEU:HD23	1:L:197:LEU:C	2.18	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:676:ILE:HG22	2:M:988:VAL:O	1.97	0.64
3:N:1372:VAL:HG13	3:N:1375:MET:HE2	1.79	0.64
3:N:1434:TRP:HZ3	3:N:1457:ASP:H	1.44	0.64
3:N:225:LEU:HD22	3:N:440:VAL:HG21	1.80	0.64
3:N:642:CYS:O	3:N:642:CYS:SG	2.56	0.64
5:P:139:ALA:HB1	5:P:152:ASP:CB	2.28	0.64
5:P:163:LEU:HD13	5:P:174:LEU:CD2	2.27	0.64
1:A:173:PRO:O	1:A:201:THR:HG23	1.97	0.64
1:B:152:PRO:CD	1:B:155:LYS:HD2	2.25	0.64
1:B:23:PHE:HB2	1:B:197:LEU:HD21	1.78	0.64
1:B:59:GLU:HG3	1:B:60:ASP:H	1.62	0.64
2:C:97:ARG:NH2	2:C:109:LYS:HD2	2.13	0.64
3:D:1020:LEU:HD21	3:D:1038:LEU:HD13	1.80	0.64
3:D:1476:THR:CG2	4:E:21:VAL:HG22	2.27	0.64
2:C:1058:ASP:HB2	3:D:621:LYS:NZ	2.13	0.64
3:D:32:ILE:O	5:F:258:ILE:HG23	1.97	0.64
2:M:18:LEU:CA	2:M:408:ARG:NH2	2.58	0.64
2:M:480:THR:CG2	2:M:482:GLU:HB3	2.27	0.64
2:M:766:GLU:HB3	3:N:54:LYS:HZ1	1.60	0.64
5:P:325:LYS:HD2	5:P:326:ASP:OD2	1.98	0.64
3:D:1264:GLU:HG2	3:D:1266:ARG:NH2	2.13	0.63
3:D:149:LYS:HD3	3:D:149:LYS:H	1.63	0.63
1:L:100:LEU:HB2	1:L:115:LEU:HD11	1.81	0.63
1:L:58:ILE:HD13	1:L:140:MET:CB	2.28	0.63
2:M:192:PRO:O	2:M:195:LEU:HB3	1.98	0.63
2:C:1016:ILE:CD1	2:C:1016:ILE:H	1.83	0.63
2:C:607:ASP:HB2	2:C:610:ARG:NH1	2.13	0.63
3:D:1441:GLN:HA	3:D:1441:GLN:NE2	2.14	0.63
3:D:1472:ILE:O	3:D:1477:GLY:HA3	1.97	0.63
3:D:129:PHE:CD2	3:D:587:ARG:CZ	2.82	0.63
3:D:994:GLN:O	3:D:998:GLU:HG3	1.98	0.63
2:M:110:GLU:HG2	2:M:369:PRO:HG3	1.80	0.63
2:M:926:PHE:O	2:M:929:ARG:HB2	1.97	0.63
3:D:1046:GLN:CB	3:D:1052:THR:HA	2.28	0.63
3:D:1363:LEU:HD12	3:D:1364:HIS:O	1.98	0.63
3:D:72:VAL:CG1	3:D:73:CYS:N	2.61	0.63
5:F:278:LEU:HB3	5:F:286:PRO:HG2	1.80	0.63
1:K:151:VAL:HG22	1:K:155:LYS:NZ	2.14	0.63
3:N:1147:ARG:CB	3:N:1188:VAL:HG21	2.16	0.63
3:N:1462:LEU:HD23	3:N:1473:PRO:HD2	1.80	0.63
3:N:686:GLU:HA	3:N:689:ASP:OD2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:798:GLU:HB2	3:N:828:LYS:HG2	1.80	0.63
1:B:221:HIS:HA	1:B:224:TYR:HD2	1.63	0.63
2:C:12:VAL:HG22	2:C:13:ILE:HG23	1.80	0.63
2:C:535:SER:O	2:C:538:GLN:HG2	1.97	0.63
3:D:807:ALA:HB2	3:D:833:GLU:CB	2.28	0.63
3:D:809:PRO:HB2	3:D:812:ALA:CB	2.29	0.63
3:D:770:LEU:HG	3:D:919:PHE:HE1	1.63	0.63
3:D:996:TRP:NE1	3:D:1056:PRO:HG2	2.12	0.63
1:L:103:ALA:O	1:L:104:GLU:HG3	1.98	0.63
1:L:33:GLY:HA2	1:L:195:LEU:HB2	1.81	0.63
2:M:595:LEU:HD21	2:M:623:TYR:HB3	1.81	0.63
2:M:946:ARG:O	2:M:950:LEU:HB2	1.99	0.63
3:N:1432:LYS:CD	3:N:1432:LYS:H	2.12	0.63
3:N:374:GLU:HB3	3:N:385:VAL:O	1.98	0.63
3:N:656:PHE:HB3	3:N:694:VAL:HG11	1.80	0.63
1:B:89:PHE:HB3	1:B:94:LEU:HD22	1.79	0.63
3:D:1121:PRO:C	3:D:1122:LEU:HD12	2.19	0.63
3:D:965:GLU:HG3	3:D:969:ARG:HH22	1.62	0.63
1:K:58:ILE:HD13	1:K:140:MET:CB	2.29	0.63
2:M:1016:ILE:H	2:M:1016:ILE:CD1	1.95	0.63
3:N:133:ILE:HD13	3:N:454:ALA:HB1	1.80	0.63
1:B:23:PHE:HB2	1:B:197:LEU:CD2	2.28	0.63
1:B:221:HIS:HA	1:B:224:TYR:CD2	2.34	0.63
2:C:835:VAL:HG22	2:C:836:GLY:N	2.14	0.63
3:D:1280:VAL:HG12	3:D:1281:VAL:N	2.12	0.63
3:D:678:GLU:HG3	3:D:679:ARG:HG3	1.81	0.63
3:D:895:VAL:O	3:D:899:LEU:HD12	1.98	0.63
2:M:54:ILE:CG2	2:M:66:LEU:HB3	2.28	0.63
3:N:645:PRO:HG2	3:N:724:GLN:O	1.99	0.63
3:N:699:VAL:H	3:N:756:GLN:NE2	1.96	0.63
3:N:806:PHE:O	3:N:808:THR:N	2.32	0.63
1:A:182:GLU:O	1:A:194:LYS:HB3	1.99	0.63
1:A:38:ASN:HB3	1:A:39:PRO:HD3	1.80	0.63
1:A:44:LEU:HA	1:A:48:ILE:CD1	2.29	0.63
1:B:153:ALA:HA	1:B:156:HIS:NE2	2.13	0.63
2:C:196:LEU:HA	2:C:199:VAL:HG23	1.81	0.63
2:C:736:ASP:C	2:C:738:ASP:H	2.01	0.63
2:C:744:ARG:NE	2:C:747:ALA:HB2	2.13	0.63
3:D:1389:LEU:H	3:D:1389:LEU:CD2	2.11	0.63
3:D:141:ILE:CD1	3:D:141:ILE:H	1.90	0.63
3:D:231:VAL:HA	3:D:378:ILE:HG13	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:660:LYS:HD2	3:D:663:GLU:OE2	1.98	0.63
5:F:239:ALA:O	5:F:243:ILE:HG13	1.99	0.63
1:K:54:THR:O	1:K:55:SER:HB2	1.96	0.63
2:M:919:ALA:HA	2:M:968:LEU:HD21	1.79	0.63
3:N:1109:GLU:HB3	3:N:1201:CYS:HA	1.81	0.63
3:N:1364:HIS:ND1	3:N:1366:LYS:HG3	2.14	0.63
3:N:1432:LYS:N	3:N:1432:LYS:HD2	2.14	0.63
3:N:915:VAL:O	3:N:918:ALA:HB3	1.99	0.63
5:P:406:ARG:HG2	5:P:409:LYS:HE2	1.80	0.63
1:A:94:LEU:HD23	1:A:97:VAL:HG21	1.81	0.63
2:C:443:THR:CG2	2:C:450:GLY:H	2.10	0.63
2:C:904:PRO:HB2	2:C:907:ASP:O	1.98	0.63
2:C:1118:LYS:HA	3:D:23:TYR:CZ	2.34	0.63
3:D:596:SER:C	3:D:598:ARG:H	2.00	0.63
3:D:34:TYR:OH	5:F:264:MET:HG3	1.99	0.63
1:L:68:ILE:O	1:L:71:VAL:HB	1.98	0.63
2:M:579:VAL:HG11	2:M:887:GLU:HG3	1.81	0.63
3:N:1047:LYS:HA	3:N:1053:PHE:CE1	2.34	0.63
3:N:1114:THR:CB	3:N:1195:GLN:HB2	2.29	0.63
3:N:475:LYS:O	3:N:478:LEU:HB2	1.98	0.63
1:B:23:PHE:CZ	1:B:208:LEU:HA	2.34	0.63
3:D:1063:GLU:HG2	3:D:1064:GLY:H	1.63	0.63
3:D:728:LEU:CD2	3:D:745:MET:HE1	2.29	0.63
1:K:109:VAL:O	1:K:129:ILE:HB	1.99	0.63
1:K:175:ARG:O	1:K:176:ARG:HB3	1.99	0.63
2:M:1025:ALA:HB3	2:M:1026:GLN:NE2	2.14	0.63
2:M:433:THR:HG22	2:M:488:ALA:HB1	1.79	0.63
2:M:769:PRO:HB2	3:N:65:ARG:HH12	1.64	0.63
3:N:1110:ALA:O	3:N:1111:ASP:C	2.36	0.63
3:N:210:ARG:HH11	3:N:398:ALA:HB3	1.63	0.63
2:C:569:VAL:O	2:C:571:LEU:HD12	1.99	0.62
2:C:725:ASP:C	2:C:727:PRO:HD3	2.19	0.62
3:D:500:ARG:HH22	3:D:1388:ARG:NH1	1.97	0.62
3:D:247:GLU:H	3:D:248:PRO:HD2	1.64	0.62
1:L:137:ARG:HG2	1:L:137:ARG:HH11	1.64	0.62
2:M:1018:GLN:HG3	2:M:1060:ILE:HD11	1.81	0.62
2:M:857:ASP:HA	2:M:977:GLY:HA3	1.80	0.62
3:N:1159:ARG:HG3	3:N:1159:ARG:O	1.98	0.62
3:N:896:ALA:O	3:N:899:LEU:HD12	1.99	0.62
5:P:132:ARG:NH2	5:P:184:ARG:HH12	1.97	0.62
5:P:151:LEU:HB2	5:P:155:THR:OG1	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:101:ILE:HD12	2:C:107:LEU:HD22	1.81	0.62
2:C:259:GLY:HA2	2:C:290:LEU:O	1.99	0.62
2:C:683:ASN:HA	2:C:687:ALA:HB3	1.81	0.62
2:C:553:ASP:HA	2:C:881:ASN:HA	1.82	0.62
2:C:964:LYS:O	2:C:968:LEU:HD12	1.99	0.62
2:C:671:ASN:ND2	2:C:993:PHE:HD2	1.97	0.62
3:D:1145:TYR:HD2	3:D:1146:GLY:N	1.96	0.62
3:D:133:ILE:HG12	3:D:454:ALA:HB1	1.81	0.62
3:D:179:VAL:HG13	3:D:389:GLU:OE2	1.99	0.62
3:D:629:SER:O	3:D:744:GLN:HB3	2.00	0.62
2:M:15:LEU:HB2	2:M:586:ARG:NH1	2.10	0.62
3:N:1213:ARG:HB2	3:N:1214:PRO:CD	2.26	0.62
3:N:430:ASP:HB3	3:N:432:TYR:CE2	2.33	0.62
3:N:139:GLY:HA3	3:N:452:ILE:HD13	1.81	0.62
3:N:892:ASP:HB3	3:N:895:VAL:CG2	2.29	0.62
1:B:156:HIS:CD2	1:B:157:GLY:H	2.17	0.62
2:C:252:LYS:HE2	2:C:296:GLY:HA2	1.81	0.62
2:C:580:MET:O	2:C:902:ILE:HA	1.99	0.62
3:D:1023:MET:O	3:D:1028:ALA:HB3	1.99	0.62
5:F:393:THR:HG22	5:F:394:ARG:N	2.10	0.62
1:K:127:LEU:HD12	1:K:128:HIS:N	2.13	0.62
2:M:208:ALA:HB1	2:M:222:MET:HE2	1.81	0.62
2:M:543:ASN:HD22	2:M:562:SER:HB3	1.64	0.62
2:M:859:PRO:O	2:M:867:VAL:HG22	2.00	0.62
2:M:886:LEU:CD1	3:N:951:ILE:HG13	2.29	0.62
3:N:1437:ALA:HB3	3:N:1446:VAL:HG11	1.80	0.62
3:N:23:TYR:O	3:N:24:GLY:O	2.17	0.62
3:N:767:HIS:CD2	4:O:6:ILE:HG12	2.35	0.62
3:N:792:ILE:CD1	3:N:881:LEU:HD23	2.29	0.62
5:P:420:ASP:O	5:P:422:LEU:N	2.31	0.62
2:C:726:ILE:O	2:C:726:ILE:HG22	1.98	0.62
3:D:367:ILE:CD1	3:D:368:VAL:H	2.12	0.62
3:D:806:PHE:O	3:D:808:THR:N	2.32	0.62
2:M:895:TYR:HD1	2:M:991:GLN:HE21	1.47	0.62
3:N:1078:ARG:NH1	3:N:1078:ARG:HB3	2.11	0.62
3:N:90:MET:HB3	3:N:519:VAL:O	2.00	0.62
2:M:1094:ALA:HB2	3:N:520:LEU:HD13	1.80	0.62
3:N:935:LYS:O	3:N:939:PHE:HD1	1.83	0.62
3:N:948:THR:OG1	3:N:949:ILE:N	2.31	0.62
1:A:62:LEU:CD1	1:A:62:LEU:H	2.10	0.62
2:C:431:HIS:HD2	2:C:432:ARG:H	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:525:SER:O	2:C:528:GLU:HB2	1.99	0.62
3:D:119:SER:N	3:D:123:LEU:HB2	2.13	0.62
3:D:671:LYS:HA	3:D:674:ARG:HD3	1.81	0.62
2:M:480:THR:HG22	2:M:482:GLU:H	1.64	0.62
3:N:813:LEU:HD12	3:N:814:ALA:N	2.14	0.62
1:A:5:LYS:HE3	1:A:5:LYS:HA	1.80	0.62
1:A:18:ARG:HH22	1:A:88:ARG:NH2	1.96	0.62
2:C:6:PHE:O	2:C:7:GLY:O	2.16	0.62
2:C:911:GLU:HB3	2:C:912:PRO:HD3	1.81	0.62
3:D:225:LEU:HD12	3:D:440:VAL:HG21	1.82	0.62
3:D:898:GLU:HB3	3:D:921:ARG:HH22	1.65	0.62
2:M:442:GLU:HG2	2:M:454:SER:HB2	1.82	0.62
2:M:578:VAL:H	2:M:671:ASN:HD21	1.47	0.62
2:M:695:LEU:HD21	2:M:833:LEU:HB3	1.81	0.62
3:N:669:ASN:O	3:N:672:ALA:HB3	1.99	0.62
5:P:234:LYS:HE3	5:P:236:SER:HB3	1.81	0.62
2:C:967:PHE:HA	2:C:971:LYS:O	2.00	0.62
3:D:1319:VAL:HG12	3:D:1323:GLN:OE1	1.99	0.62
3:D:1422:MET:HE3	3:D:1426:LYS:HG2	1.81	0.62
3:D:97:THR:HG21	3:D:571:LYS:HD3	1.82	0.62
2:C:770:GLU:HG2	3:D:65:ARG:HH22	1.63	0.62
3:D:704:ARG:HG3	3:D:705:ALA:N	2.15	0.62
3:D:906:GLN:OE1	3:D:906:GLN:HA	1.99	0.62
1:L:58:ILE:HD13	1:L:140:MET:HB2	1.82	0.62
2:M:578:VAL:HG13	2:M:671:ASN:ND2	2.14	0.62
3:N:1197:ARG:HB2	3:N:1396:GLU:HG3	1.81	0.62
3:N:939:PHE:O	3:N:942:SER:HB3	1.99	0.62
1:A:20:TYR:O	1:A:207:PRO:HG2	2.00	0.62
2:C:676:ILE:CG2	2:C:988:VAL:HG13	2.29	0.62
1:K:62:LEU:HD23	1:K:163:ASN:OD1	1.99	0.62
3:N:793:THR:O	3:N:879:ARG:NH1	2.32	0.62
3:N:965:GLU:HA	3:N:968:ASP:HB2	1.82	0.62
1:A:86:VAL:HG12	1:A:124:ASN:HB2	1.80	0.62
1:A:75:VAL:HG12	1:A:75:VAL:O	2.00	0.62
5:F:88:ILE:CD1	5:F:193:ARG:HB2	2.26	0.62
1:K:12:THR:CG2	1:K:24:VAL:HB	2.29	0.62
2:M:300:ASP:C	2:M:302:VAL:H	2.01	0.62
2:M:679:PHE:CZ	2:M:978:ARG:NH1	2.67	0.62
3:N:1042:ARG:HG3	3:N:1042:ARG:O	1.99	0.62
1:B:153:ALA:HB1	1:B:166:PRO:CB	2.28	0.62
2:C:644:VAL:HG22	2:C:647:GLN:OE1	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:689:VAL:CG2	2:C:870:ILE:HB	2.30	0.62
2:C:813:VAL:HG21	2:C:815:LEU:HD13	1.82	0.62
3:D:218:LYS:CE	3:D:370:ALA:HA	2.30	0.62
1:K:1:MET:O	1:K:6:LEU:HD22	2.00	0.62
2:M:1056:LYS:HB3	3:N:624:ASP:H	1.64	0.62
2:M:559:LEU:CD1	2:M:563:ASN:HD21	2.13	0.62
3:N:1155:VAL:O	3:N:1157:GLY:N	2.32	0.62
3:N:1273:VAL:HG22	3:N:1326:THR:OG1	1.99	0.62
3:N:191:LEU:HD22	3:N:195:VAL:HG11	1.80	0.62
3:N:657:LEU:HG	3:N:661:MET:HE2	1.82	0.62
2:C:292:ARG:HD2	2:C:299:LYS:HE2	1.80	0.61
3:D:1170:ASP:O	3:D:1174:LEU:HG	2.01	0.61
3:D:761:ILE:HD11	4:E:23:VAL:HG11	1.81	0.61
2:M:537:LYS:CA	2:M:905:ILE:HD11	2.30	0.61
3:N:1134:LEU:HD23	3:N:1135:ARG:N	2.15	0.61
3:N:470:LEU:HD12	3:N:503:LEU:HG	1.82	0.61
5:P:234:LYS:HE3	5:P:236:SER:CB	2.30	0.61
5:P:273:ARG:O	5:P:277:GLN:HG3	1.98	0.61
2:C:106:GLY:O	2:C:107:LEU:HD23	2.00	0.61
2:C:194:VAL:HG22	2:C:221:LEU:CD1	2.29	0.61
3:D:1045:MET:HG3	3:D:1073:SER:CA	2.29	0.61
3:D:117:ASP:C	3:D:118:LEU:HD12	2.20	0.61
3:D:232:GLU:HB2	3:D:234:GLU:OE2	2.00	0.61
3:D:703:ASN:HD22	3:D:704:ARG:N	1.98	0.61
3:D:796:ARG:HD3	3:D:862:ASP:OD2	2.01	0.61
5:F:282:LEU:HD12	5:F:284:ARG:H	1.64	0.61
2:M:215:GLY:O	2:M:218:VAL:HG23	1.99	0.61
2:M:626:ARG:NH2	2:M:639:GLN:HE22	1.97	0.61
2:C:863:ASP:CG	2:C:863:ASP:O	2.38	0.61
2:C:896:PHE:CE2	2:C:925:TYR:HB2	2.34	0.61
3:D:1262:LEU:CD2	3:D:1352:ILE:HG13	2.11	0.61
3:D:1379:VAL:CG1	3:D:1395:LEU:HD23	2.28	0.61
3:D:86:ARG:HG2	3:D:523:ASP:OD2	2.00	0.61
1:K:97:VAL:HG12	1:K:98:THR:H	1.65	0.61
2:M:15:LEU:HD21	2:M:583:LEU:HD22	1.82	0.61
2:M:575:GLN:C	2:M:667:ALA:HB1	2.20	0.61
3:N:231:VAL:CB	3:N:378:ILE:HG23	2.30	0.61
3:N:702:LEU:HB3	3:N:745:MET:CE	2.30	0.61
5:P:144:ILE:HB	5:P:145:PRO:HD3	1.80	0.61
1:A:51:THR:HG22	1:A:145:ASP:O	1.99	0.61
2:C:1090:LYS:HE2	2:C:1112:PHE:CE1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:571:LEU:HD12	2:C:571:LEU:H	1.65	0.61
2:C:658:GLY:N	2:C:661:SER:HB2	2.08	0.61
3:D:112:ILE:O	3:D:112:ILE:HD12	2.01	0.61
3:D:1159:ARG:HH11	3:D:1159:ARG:HG2	1.65	0.61
2:M:1000:MET:HB2	2:M:1002:GLU:OE1	2.00	0.61
2:M:194:VAL:HG22	2:M:221:LEU:HD12	1.82	0.61
2:M:281:LEU:HD13	2:M:306:THR:HA	1.81	0.61
2:M:673:LEU:N	2:M:868:ASP:OD2	2.33	0.61
2:M:919:ALA:CA	2:M:968:LEU:HD21	2.30	0.61
3:N:404:GLU:OE2	3:N:414:ARG:NH2	2.33	0.61
2:C:494:TYR:HB3	2:C:530:GLU:OE2	2.00	0.61
2:M:1118:LYS:O	2:M:1119:ARG:HB2	2.01	0.61
2:M:384:GLU:HG3	2:M:388:ARG:HE	1.66	0.61
2:M:943:VAL:HG13	2:M:985:GLY:H	1.64	0.61
3:N:397:LYS:HZ3	3:N:399:ARG:HH21	1.48	0.61
2:C:194:VAL:HG21	2:C:221:LEU:O	2.00	0.61
3:D:379:ALA:HB3	3:D:382:GLU:OE1	2.01	0.61
3:D:67:ARG:HB2	5:F:375:LEU:HD11	1.82	0.61
1:K:90:LEU:HB2	1:K:119:ASP:HB3	1.82	0.61
2:M:167:LYS:NZ	2:M:168:ARG:HH21	1.99	0.61
2:M:723:THR:HG23	2:M:725:ASP:H	1.66	0.61
3:N:116:LEU:HB3	3:N:118:LEU:HD13	1.83	0.61
3:N:1262:LEU:HD23	3:N:1352:ILE:HG13	1.82	0.61
3:N:562:ALA:HB3	3:N:567:ILE:HG12	1.83	0.61
3:N:633:VAL:HG22	3:N:635:PRO:HD3	1.81	0.61
3:N:935:LYS:CG	3:N:939:PHE:HE1	2.13	0.61
5:P:88:ILE:O	5:P:92:PRO:HG3	1.99	0.61
1:A:25:LEU:HD22	1:A:28:LEU:HD11	1.82	0.61
1:B:217:ILE:HG22	1:B:221:HIS:HD2	1.64	0.61
2:C:132:ALA:HB1	2:C:632:ASN:HD21	1.65	0.61
2:C:288:ARG:HA	2:C:288:ARG:NE	2.14	0.61
2:C:637:LEU:HA	2:C:659:PRO:HG3	1.82	0.61
2:C:843:HIS:CD2	2:C:884:GLN:HA	2.35	0.61
2:C:516:ARG:CD	3:D:1068:LEU:HD13	2.31	0.61
5:F:354:LEU:HD23	5:F:418:LEU:HD21	1.83	0.61
1:L:3:ASP:CG	1:L:4:SER:H	2.03	0.61
2:M:113:VAL:O	2:M:115:LEU:HD23	2.01	0.61
2:M:137:VAL:HG13	2:M:409:ARG:O	2.01	0.61
2:M:18:LEU:C	2:M:408:ARG:HH21	2.04	0.61
2:M:512:ARG:CG	2:M:523:ILE:HD11	2.24	0.61
2:M:578:VAL:N	2:M:671:ASN:HD21	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1363:LEU:HD11	3:N:1368:ILE:HD11	1.80	0.61
3:N:40:GLU:HG3	3:N:41:ARG:H	1.65	0.61
5:P:300:ASP:O	5:P:304:VAL:HG23	2.01	0.61
2:C:344:PHE:O	2:C:348:LEU:HD13	2.00	0.61
2:C:42:VAL:HG12	2:C:43:GLY:H	1.66	0.61
2:C:701:THR:HG23	2:C:832:LYS:HA	1.82	0.61
3:D:233:LYS:NZ	3:D:237:LYS:HD2	2.16	0.61
3:D:34:TYR:CE2	5:F:260:ILE:HG13	2.35	0.61
3:D:966:GLU:O	3:D:969:ARG:HG2	2.01	0.61
5:F:207:LEU:HB2	5:F:212:LEU:CD2	2.31	0.61
1:K:25:LEU:HD23	1:K:195:LEU:HD23	1.81	0.61
2:M:620:LEU:H	2:M:620:LEU:HD23	1.65	0.61
2:M:578:VAL:N	2:M:671:ASN:ND2	2.49	0.61
2:M:774:LEU:HD23	5:P:354:LEU:HD21	1.83	0.61
3:N:1062:ARG:HD3	3:N:1062:ARG:C	2.21	0.61
5:P:300:ASP:CG	5:P:301:ALA:N	2.53	0.61
5:P:94:LEU:CG	5:P:97:GLU:HB2	2.31	0.61
1:B:101:LEU:HD23	1:B:102:LYS:N	2.15	0.61
2:C:52:PHE:O	2:C:54:ILE:N	2.33	0.61
3:D:1109:GLU:HG2	3:D:1201:CYS:HA	1.81	0.61
3:D:1372:VAL:HA	3:D:1375:MET:HE2	1.83	0.61
3:D:1389:LEU:N	3:D:1389:LEU:HD23	2.11	0.61
3:D:493:ARG:NE	3:D:1389:LEU:HG	2.15	0.61
3:D:826:PRO:HD2	3:D:829:VAL:CG1	2.30	0.61
3:D:385:VAL:HG21	5:F:97:GLU:OE2	2.00	0.61
2:M:1055:LEU:CD2	2:M:1079:PRO:HG3	2.31	0.61
2:M:713:ARG:HB2	2:M:720:GLU:OE1	2.01	0.61
3:N:1042:ARG:HH12	3:N:1045:MET:CE	2.13	0.61
3:N:409:VAL:O	3:N:411:THR:N	2.34	0.61
2:M:1051:GLU:OE2	3:N:752:SER:HB3	2.00	0.61
2:M:1115:LEU:HD13	3:N:85:VAL:HG12	1.83	0.61
5:P:358:LEU:HD11	5:P:370:LYS:HD2	1.83	0.61
5:P:389:PHE:HE2	5:P:394:ARG:HG3	1.66	0.61
1:A:5:LYS:O	1:A:8:ALA:HB2	2.01	0.61
2:C:192:PRO:O	2:C:195:LEU:HB3	2.00	0.61
2:C:197:LEU:HD13	2:C:207:LEU:HD11	1.83	0.61
2:C:591:SER:O	2:C:592:LEU:HD23	2.01	0.61
2:C:691:SER:O	2:C:693:GLU:N	2.34	0.61
2:C:726:ILE:O	2:C:728:HIS:N	2.34	0.61
2:C:695:LEU:HD21	2:C:833:LEU:O	2.01	0.61
3:D:1095:THR:O	3:D:1099:VAL:HG23	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1201:CYS:SG	3:D:1204:CYS:CB	2.85	0.61
3:D:647:ARG:HD2	3:D:680:GLN:NE2	2.16	0.61
3:D:887:ALA:O	3:D:890:VAL:O	2.18	0.61
2:M:111:ASP:O	2:M:113:VAL:HG23	2.01	0.61
3:N:1121:PRO:O	3:N:1122:LEU:HD12	2.01	0.61
3:N:1277:ILE:O	3:N:1321:ALA:HA	2.00	0.61
3:N:1368:ILE:O	3:N:1372:VAL:HG23	2.01	0.61
3:N:820:GLU:OE2	3:N:836:VAL:HG21	2.00	0.61
3:N:899:LEU:HD12	3:N:900:ILE:HG23	1.83	0.61
1:A:161:ARG:HH11	1:A:161:ARG:HG3	1.65	0.60
1:A:182:GLU:CD	2:C:935:GLY:H	2.04	0.60
1:A:32:PHE:C	1:A:34:VAL:H	2.04	0.60
1:A:218:LEU:HD23	1:B:222:LEU:HD11	1.82	0.60
2:C:412:ALA:HB1	2:C:419:THR:HG21	1.83	0.60
3:D:1155:VAL:CG2	3:D:1183:ILE:HD11	2.31	0.60
3:D:218:LYS:HD3	3:D:372:ASP:H	1.66	0.60
3:D:784:ASP:O	3:D:787:LEU:HB3	2.01	0.60
2:M:516:ARG:NH1	2:M:521:PRO:HB3	2.16	0.60
2:M:398:THR:HG23	2:M:635:THR:HG21	1.83	0.60
2:M:922:PHE:CD2	2:M:964:LYS:HD3	2.34	0.60
3:N:955:VAL:HB	3:N:1011:PHE:HE1	1.65	0.60
3:N:1237:THR:HG22	3:N:1238:MET:N	2.16	0.60
3:N:502:PHE:CZ	3:N:1452:ILE:HD11	2.35	0.60
3:N:736:PHE:O	3:N:737:ASN:C	2.39	0.60
3:N:852:ALA:HB1	3:N:857:ILE:HB	1.82	0.60
2:M:1018:GLN:HG2	3:N:87:ARG:HH22	1.66	0.60
3:N:957:PRO:CG	3:N:1007:VAL:HG12	2.31	0.60
3:N:924:MET:HB3	4:O:7:ASP:OD2	2.00	0.60
2:C:266:ARG:HG3	2:C:266:ARG:HH11	1.66	0.60
2:C:277:ALA:O	2:C:281:LEU:HD23	2.02	0.60
2:C:436:GLY:HA2	2:C:538:GLN:O	2.01	0.60
2:C:636:ALA:HB2	2:C:705:ILE:CD1	2.31	0.60
2:C:572:ILE:HG12	2:C:701:THR:O	2.01	0.60
3:D:1109:GLU:HG2	3:D:1202:GLN:H	1.67	0.60
3:D:1314:LYS:HZ3	3:D:1317:ASP:HB2	1.62	0.60
3:D:716:PHE:O	3:D:718:PRO:HD3	2.01	0.60
4:E:40:LEU:O	4:E:40:LEU:HD12	2.01	0.60
1:K:151:VAL:HG13	1:K:155:LYS:HD3	1.83	0.60
2:M:333:ILE:HG22	2:M:333:ILE:O	2.01	0.60
2:M:478:VAL:HG13	2:M:506:ASN:HD22	1.64	0.60
2:M:553:ASP:OD1	2:M:843:HIS:ND1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1155:VAL:CG2	3:N:1183:ILE:HD11	2.30	0.60
3:N:197:SER:HB3	3:N:203:ALA:HB3	1.83	0.60
3:N:44:LEU:HB3	3:N:525:ARG:HH21	1.63	0.60
3:N:669:ASN:H	3:N:672:ALA:CB	2.15	0.60
3:N:770:LEU:HD11	3:N:919:PHE:CG	2.36	0.60
5:P:151:LEU:HB2	5:P:155:THR:H	1.65	0.60
5:P:88:ILE:HD13	5:P:193:ARG:HD2	1.83	0.60
2:C:1007:ALA:O	2:C:1027:PHE:HD2	1.83	0.60
2:C:906:PHE:HE1	3:D:1067:VAL:HG13	1.66	0.60
3:D:1451:ALA:O	3:D:1453:ALA:N	2.34	0.60
3:D:714:GLN:HE22	3:D:735:ALA:HB1	1.65	0.60
2:M:375:SER:O	2:M:379:GLU:HB2	2.01	0.60
2:M:755:LEU:O	2:M:756:VAL:HG23	2.00	0.60
3:N:1068:LEU:HD23	3:N:1072:ILE:HD13	1.82	0.60
3:N:1258:ARG:NH2	3:N:1262:LEU:HD11	2.16	0.60
3:N:187:LYS:HE2	3:N:213:VAL:CG1	2.18	0.60
3:N:574:LEU:HD12	3:N:574:LEU:O	2.01	0.60
3:N:911:LEU:O	3:N:914:LEU:N	2.34	0.60
1:A:69:PRO:HA	2:C:607:ASP:OD2	2.01	0.60
1:B:175:ARG:HB2	1:B:200:TRP:HB3	1.82	0.60
3:D:1031:ASN:HB3	3:D:1034:GLN:CD	2.22	0.60
3:D:1120:VAL:HG11	3:D:1144:LEU:CG	2.31	0.60
3:D:1231:GLU:HB3	3:D:1232:PRO:CD	2.28	0.60
3:D:218:LYS:HD2	3:D:372:ASP:OD1	2.01	0.60
3:D:996:TRP:CZ3	3:D:999:THR:HG21	2.37	0.60
2:C:1067:TYR:HB2	5:F:341:PRO:HB3	1.81	0.60
1:K:111:ALA:CB	1:K:127:LEU:HB3	2.31	0.60
1:L:221:HIS:HA	1:L:224:TYR:CD2	2.35	0.60
1:L:33:GLY:HA3	1:L:181:VAL:HG13	1.83	0.60
3:N:1291:SER:HB3	3:N:1293:PHE:HE1	1.67	0.60
2:M:1005:MET:HB3	3:N:629:SER:HB2	1.82	0.60
5:P:139:ALA:HB1	5:P:152:ASP:HB2	1.83	0.60
5:P:220:LEU:O	5:P:220:LEU:HD23	2.00	0.60
2:C:16:PRO:O	2:C:18:LEU:HD12	2.01	0.60
2:C:762:LYS:NZ	2:C:762:LYS:HB2	2.16	0.60
2:C:762:LYS:HA	2:C:786:LYS:CD	2.28	0.60
3:D:1476:THR:HG23	4:E:21:VAL:CG2	2.29	0.60
4:E:61:GLU:CD	4:E:62:THR:N	2.55	0.60
5:F:256:ARG:HH21	5:F:260:ILE:HB	1.65	0.60
1:L:106:PRO:HD3	1:L:134:GLU:OE2	2.01	0.60
1:L:49:PRO:HA	1:L:147:GLY:O	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:413:LEU:CD1	2:M:451:LEU:HD22	2.31	0.60
1:L:30:ARG:NH2	2:M:692:GLU:OE2	2.28	0.60
2:M:712:ALA:O	2:M:820:ARG:HB2	2.00	0.60
3:N:1071:PHE:O	3:N:1074:SER:OG	2.20	0.60
3:N:1403:LEU:O	3:N:1407:LEU:HD13	2.01	0.60
3:N:179:VAL:HG21	3:N:217:LYS:HE2	1.84	0.60
3:N:714:GLN:HE22	3:N:732:VAL:HG11	1.66	0.60
3:N:806:PHE:HD1	3:N:812:ALA:HB3	1.65	0.60
3:N:785:ILE:HG23	3:N:938:GLY:HA3	1.82	0.60
1:A:206:THR:HG22	1:A:208:LEU:N	2.16	0.60
2:C:328:LEU:HD13	2:C:433:THR:HB	1.83	0.60
2:C:554:ASP:OD2	2:C:556:ASN:HB3	2.01	0.60
2:C:943:VAL:HG21	2:C:973:VAL:HG13	1.82	0.60
3:D:1007:VAL:CG2	3:D:1008:PHE:N	2.64	0.60
3:D:525:ARG:N	3:D:526:PRO:HD3	2.15	0.60
3:D:609:GLY:HA3	3:D:614:PHE:H	1.66	0.60
3:D:987:GLU:O	3:D:991:GLN:HB2	2.02	0.60
3:N:1205:TYR:CE1	3:N:1221:VAL:CG1	2.85	0.60
3:N:231:VAL:HA	3:N:378:ILE:HG12	1.82	0.60
1:A:114:PHE:CZ	1:A:142:VAL:HG21	2.37	0.60
2:C:26:TYR:O	2:C:29:ALA:HB3	2.02	0.60
2:C:431:HIS:CD2	2:C:432:ARG:H	2.20	0.60
2:C:941:VAL:HA	2:C:944:LEU:HD12	1.84	0.60
3:D:1119:SER:O	3:D:1121:PRO:HD3	2.01	0.60
3:D:714:GLN:HE22	3:D:735:ALA:CB	2.14	0.60
3:D:860:LEU:HD23	3:D:877:PRO:HB2	1.84	0.60
5:F:287:THR:HG23	5:F:289:GLU:H	1.67	0.60
1:K:101:LEU:HD23	1:K:101:LEU:C	2.21	0.60
1:K:151:VAL:HG12	1:K:151:VAL:O	2.01	0.60
2:M:73:LEU:HD23	2:M:93:PRO:O	2.02	0.60
3:N:554:LEU:HD12	3:N:558:LEU:HD11	1.83	0.60
3:N:903:ASP:O	3:N:904:VAL:HG13	2.02	0.60
3:N:889:ALA:HB1	3:N:930:LEU:HA	1.84	0.60
1:A:156:HIS:HD2	1:A:158:ILE:HG12	1.66	0.60
1:A:28:LEU:HB2	1:A:193:ASP:O	2.02	0.60
2:C:191:PHE:HD2	2:C:195:LEU:HD23	1.67	0.60
2:C:197:LEU:HD13	2:C:207:LEU:CD1	2.32	0.60
3:D:1264:GLU:OE2	3:D:1425:THR:HB	2.01	0.60
3:D:709:HIS:CD2	3:D:711:LEU:HB2	2.37	0.60
3:D:807:ALA:HB2	3:D:833:GLU:HB3	1.82	0.60
3:D:819:GLY:O	3:D:822:ALA:HB3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:41:GLU:H	4:E:42:PRO:HD2	1.66	0.60
4:E:45:ARG:NH2	4:E:72:ARG:HH22	1.98	0.60
5:F:251:ILE:O	5:F:255:ALA:HB2	2.02	0.60
1:K:38:ASN:HD22	1:K:179:PHE:HE2	1.47	0.60
1:K:54:THR:O	1:K:54:THR:HG22	2.00	0.60
1:L:161:ARG:HH11	1:L:161:ARG:HG3	1.67	0.60
2:M:703:ILE:HG12	2:M:830:LYS:HG2	1.83	0.60
3:N:137:PRO:CD	3:N:453:ASP:HB3	2.32	0.60
3:N:162:ARG:CB	3:N:434:ARG:HH21	2.14	0.60
3:N:669:ASN:OD1	3:N:672:ALA:HB2	2.00	0.60
3:N:99:ALA:HA	3:N:575:GLN:HE22	1.67	0.60
2:C:154:ARG:C	2:C:156:GLY:H	2.05	0.60
2:C:381:ALA:O	2:C:384:GLU:HB3	2.02	0.60
2:C:605:LYS:HE2	2:C:610:ARG:HH22	1.67	0.60
3:D:1102:THR:O	3:D:1105:ILE:HG12	2.02	0.60
3:D:18:ILE:HG21	3:D:516:ALA:O	2.02	0.60
3:D:133:ILE:HG13	3:D:456:MET:HE2	1.84	0.60
3:D:785:ILE:HD13	3:D:935:LYS:HA	1.83	0.60
1:K:124:ASN:N	1:K:125:PRO:HD3	2.17	0.60
1:K:214:ALA:O	1:K:217:ILE:N	2.35	0.60
2:M:838:LYS:HG3	2:M:997:LEU:HD12	1.83	0.60
3:N:47:GLU:CD	3:N:53:ILE:HG22	2.22	0.60
5:P:389:PHE:HB3	5:P:397:ILE:HD11	1.83	0.60
1:B:78:ILE:C	1:B:80:LEU:H	2.05	0.60
2:C:1034:GLU:O	2:C:1037:VAL:HB	2.02	0.60
2:C:413:LEU:HD12	2:C:413:LEU:N	2.08	0.60
2:C:516:ARG:NH2	3:D:1068:LEU:CB	2.63	0.60
3:D:1258:ARG:NH2	3:D:1262:LEU:HD11	2.17	0.60
1:K:206:THR:CG2	1:K:209:GLU:H	2.09	0.60
2:M:167:LYS:C	2:M:169:GLY:H	2.03	0.60
2:M:678:PRO:O	3:N:943:THR:HB	2.01	0.60
2:M:795:GLY:O	2:M:796:GLU:HG2	2.02	0.60
3:N:951:ILE:HD11	3:N:1062:ARG:O	2.02	0.60
5:P:167:PRO:HB2	5:P:169:GLU:OE1	2.01	0.60
2:C:244:PRO:HG2	2:C:246:ASP:OD2	2.01	0.59
3:D:750:PRO:HG2	3:D:756:GLN:OE1	2.02	0.59
1:K:13:VAL:HG12	1:K:14:ARG:H	1.64	0.59
3:N:118:LEU:O	3:N:120:ALA:N	2.35	0.59
3:N:153:LEU:N	3:N:153:LEU:HD23	2.17	0.59
3:N:159:ARG:NH2	5:P:87:GLU:HG2	2.17	0.59
3:N:202:VAL:HG12	3:N:204:LEU:HG	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:441:ARG:C	3:N:443:VAL:H	2.05	0.59
3:N:133:ILE:CG2	3:N:454:ALA:HB1	2.24	0.59
3:N:56:TYR:O	3:N:80:VAL:HG21	2.02	0.59
3:N:935:LYS:HG2	3:N:939:PHE:CE1	2.37	0.59
5:P:302:LYS:HD2	5:P:303:ARG:N	2.17	0.59
1:A:184:THR:O	1:A:192:LEU:HB2	2.02	0.59
2:C:585:GLU:HG2	2:C:665:PHE:CE2	2.38	0.59
2:C:671:ASN:ND2	2:C:671:ASN:N	2.50	0.59
3:D:1443:THR:O	3:D:1447:LEU:HD22	2.01	0.59
3:D:1085:ALA:HB3	6:D:1525:STD:O9	2.02	0.59
4:E:40:LEU:HD22	4:E:45:ARG:NH1	2.16	0.59
1:K:112:ARG:HG3	1:K:113:ASP:OD2	2.02	0.59
1:K:132:LEU:HD12	1:K:132:LEU:N	2.17	0.59
1:K:26:GLU:HG2	1:K:27:PRO:N	2.17	0.59
1:L:176:ARG:HG2	1:L:200:TRP:CG	2.36	0.59
2:M:1014:SER:HA	2:M:1021:LEU:HD22	1.82	0.59
2:M:768:THR:HB	2:M:771:GLU:HB3	1.84	0.59
3:N:1197:ARG:HD2	3:N:1396:GLU:HB2	1.83	0.59
3:N:155:ASP:O	3:N:159:ARG:HB2	2.02	0.59
3:N:422:ALA:HB3	3:N:427:VAL:HG13	1.84	0.59
2:C:507:ARG:HH11	2:C:507:ARG:HB2	1.67	0.59
2:C:859:PRO:HB3	2:C:974:LEU:HD23	1.84	0.59
3:D:1020:LEU:HA	3:D:1023:MET:HE3	1.85	0.59
5:F:370:LYS:O	5:F:374:GLY:HA3	2.03	0.59
2:M:102:HIS:C	2:M:104:ASP:H	2.05	0.59
2:M:578:VAL:HG23	2:M:579:VAL:HG12	1.84	0.59
3:N:1267:ARG:NH1	3:N:1271:LYS:HG3	2.17	0.59
3:N:217:LYS:HG3	3:N:389:GLU:HB3	1.82	0.59
3:N:169:TYR:HA	3:N:392:SER:HA	1.83	0.59
5:P:120:THR:CG2	5:P:122:LEU:HD13	2.15	0.59
5:P:416:ARG:CG	5:P:419:ARG:HG3	2.33	0.59
2:C:192:PRO:HB2	2:C:195:LEU:CB	2.32	0.59
2:C:456:ALA:HA	2:C:541:SER:HA	1.84	0.59
2:C:589:ARG:HA	2:C:596:TYR:OH	2.02	0.59
2:C:73:LEU:HA	2:C:93:PRO:O	2.01	0.59
3:D:651:GLU:OE1	3:D:651:GLU:HA	2.03	0.59
3:D:699:VAL:HG12	3:D:717:GLN:CA	2.32	0.59
2:M:63:GLY:HA3	2:M:103:LYS:HD2	1.83	0.59
2:M:106:GLY:C	2:M:107:LEU:HD23	2.22	0.59
2:M:424:GLY:O	2:M:428:ARG:HG3	2.01	0.59
2:M:54:ILE:HG23	2:M:54:ILE:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:666:LEU:CD2	2:M:668:LEU:HD11	2.32	0.59
3:N:119:SER:HB2	3:N:123:LEU:HB2	1.82	0.59
3:N:536:ALA:HA	5:P:315:VAL:O	2.03	0.59
3:N:715:ALA:HB3	3:N:764:LEU:CA	2.22	0.59
3:N:97:THR:OG1	3:N:571:LYS:HE3	2.02	0.59
5:P:220:LEU:O	5:P:224:VAL:HG23	2.02	0.59
2:C:128:ILE:C	2:C:129:ILE:HD12	2.23	0.59
2:C:859:PRO:O	2:C:867:VAL:HG22	2.03	0.59
3:D:1155:VAL:HG11	3:D:1177:ALA:HB1	1.83	0.59
3:D:972:LEU:HG	3:D:976:GLN:OE1	2.02	0.59
5:F:102:LEU:O	5:F:106:VAL:HG23	2.02	0.59
5:F:174:LEU:O	5:F:178:ARG:HG2	2.03	0.59
2:M:73:LEU:HD11	2:M:118:ILE:HD11	1.83	0.59
3:N:1150:ALA:H	3:N:1188:VAL:HA	1.68	0.59
3:N:1283:ILE:HG22	3:N:1284:GLU:N	2.15	0.59
3:N:574:LEU:O	3:N:578:VAL:HG23	2.02	0.59
3:N:584:ASN:OD1	3:N:590:PRO:HD2	2.03	0.59
4:O:19:LEU:O	4:O:23:VAL:HG23	2.02	0.59
2:C:1034:GLU:HG3	2:C:1035:MET:N	2.17	0.59
2:C:679:PHE:O	2:C:681:GLY:N	2.36	0.59
3:D:9:ARG:NH1	3:D:11:ALA:HB2	2.18	0.59
3:D:247:GLU:H	3:D:248:PRO:CD	2.14	0.59
2:M:89:THR:O	2:M:91:GLN:HG3	2.02	0.59
3:N:123:LEU:O	3:N:126:VAL:HG12	2.03	0.59
3:N:1336:LEU:HD12	3:N:1340:GLY:O	2.02	0.59
3:N:1349:VAL:HG21	3:N:1369:GLU:HG2	1.85	0.59
3:N:711:LEU:CD1	3:N:778:LEU:HD23	2.32	0.59
1:A:124:ASN:N	1:A:125:PRO:HD3	2.17	0.59
1:A:153:ALA:HA	1:A:156:HIS:CE1	2.38	0.59
1:A:79:ILE:HD12	1:A:80:LEU:N	2.17	0.59
1:B:57:TYR:CE2	1:B:161:ARG:HG2	2.37	0.59
1:B:58:ILE:HG22	1:B:59:GLU:N	2.18	0.59
2:C:74:GLY:O	2:C:75:GLU:HG3	2.03	0.59
3:D:139:GLY:HA3	3:D:147:VAL:HG13	1.84	0.59
3:D:182:GLY:O	3:D:185:VAL:N	2.36	0.59
3:D:183:GLU:O	3:D:186:VAL:HG12	2.03	0.59
3:D:39:PRO:HB3	3:D:45:PHE:HB2	1.83	0.59
3:D:629:SER:OG	3:D:630:VAL:N	2.36	0.59
2:M:1089:VAL:HG13	2:M:1099:VAL:HG23	1.81	0.59
2:M:405:ARG:HH21	2:M:409:ARG:NH2	2.01	0.59
3:N:1107:VAL:O	3:N:1218:GLY:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1450:ALA:HB1	3:N:1455:LYS:HB2	1.85	0.59
3:N:421:LEU:HD11	3:N:437:VAL:CG2	2.32	0.59
3:N:50:PHE:CD2	3:N:522:PRO:HD3	2.38	0.59
3:N:781:PRO:CB	3:N:911:LEU:HD23	2.27	0.59
3:N:968:ASP:O	3:N:971:LEU:HB3	2.02	0.59
4:O:38:THR:HG21	4:O:41:GLU:OE1	2.02	0.59
1:A:18:ARG:HH12	1:A:88:ARG:HE	1.45	0.59
1:A:35:THR:O	1:A:39:PRO:HG2	2.03	0.59
1:B:152:PRO:HD2	1:B:155:LYS:CD	2.29	0.59
1:B:189:ARG:HG3	1:B:189:ARG:NH1	2.16	0.59
2:C:139:GLN:OE1	2:C:414:GLY:HA3	2.02	0.59
2:C:607:ASP:HB3	2:C:610:ARG:H	1.67	0.59
2:C:923:GLU:OE1	2:C:927:GLY:HA3	2.02	0.59
3:D:1310:ARG:HG3	3:D:1327:ARG:CB	2.28	0.59
3:D:1379:VAL:O	3:D:1392:GLY:HA2	2.03	0.59
3:D:371:ILE:O	3:D:371:ILE:HD12	2.02	0.59
3:D:601:ARG:HB2	3:D:601:ARG:NH1	2.17	0.59
3:D:949:ILE:HG22	3:D:949:ILE:O	2.03	0.59
2:M:244:PRO:CG	2:M:245:GLY:H	2.16	0.59
2:M:549:PHE:HB3	2:M:552:HIS:CD2	2.38	0.59
3:N:1274:ILE:O	3:N:1274:ILE:HD12	2.03	0.59
2:C:66:LEU:HD13	2:C:100:LEU:HB3	1.85	0.59
2:C:149:THR:HG23	2:C:150:PRO:HD2	1.85	0.59
3:D:794:GLN:NE2	3:D:795:VAL:O	2.36	0.59
3:D:808:THR:HB	3:D:809:PRO:CD	2.33	0.59
1:K:103:ALA:C	1:K:104:GLU:HG3	2.22	0.59
2:M:428:ARG:CZ	6:M:1120:STD:H292	2.33	0.59
2:M:516:ARG:HD2	2:M:521:PRO:HA	1.84	0.59
2:M:679:PHE:C	2:M:681:GLY:H	2.04	0.59
2:M:886:LEU:O	2:M:887:GLU:C	2.41	0.59
3:N:1209:LEU:HD23	3:N:1211:MET:CE	2.33	0.59
5:P:126:LEU:O	5:P:130:VAL:HG23	2.02	0.59
2:C:470:PRO:HG3	2:C:485:TYR:CZ	2.37	0.59
2:C:1097:LEU:HG	3:D:101:HIS:HE1	1.67	0.59
3:D:218:LYS:HD3	3:D:371:ILE:N	2.18	0.59
3:D:646:LYS:O	3:D:648:MET:N	2.36	0.59
1:K:56:VAL:O	1:K:164:ALA:HB1	2.01	0.59
5:P:343:ASP:O	5:P:346:THR:HB	2.02	0.59
2:C:474:VAL:CG1	2:C:529:VAL:HG12	2.29	0.58
3:D:1074:SER:O	3:D:1077:ALA:CB	2.51	0.58
3:D:150:ARG:HG2	3:D:150:ARG:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:50:PHE:CD2	3:D:522:PRO:HD3	2.38	0.58
3:D:704:ARG:CG	3:D:705:ALA:N	2.66	0.58
4:E:45:ARG:NH2	4:E:72:ARG:NH2	2.51	0.58
2:M:798:GLY:H	2:M:827:VAL:CG1	2.16	0.58
3:N:225:LEU:HB2	3:N:227:LEU:HD21	1.84	0.58
1:B:173:PRO:HB3	1:B:205:VAL:HG22	1.84	0.58
1:B:62:LEU:HD13	1:B:63:HIS:CD2	2.38	0.58
2:C:21:ILE:HD12	2:C:21:ILE:N	2.13	0.58
2:C:31:GLN:NE2	2:C:40:GLU:HB2	2.17	0.58
5:F:105:LYS:O	5:F:180:GLY:HA2	2.02	0.58
3:D:613:ARG:NH2	5:F:328:PHE:CE1	2.71	0.58
5:F:418:LEU:N	5:F:418:LEU:HD12	2.18	0.58
2:M:585:GLU:O	2:M:587:VAL:N	2.36	0.58
2:M:841:ASN:HD21	2:M:843:HIS:CD2	2.20	0.58
3:N:11:ALA:HB1	3:N:507:ASN:OD1	2.03	0.58
3:N:134:VAL:HG23	3:N:134:VAL:O	2.03	0.58
3:N:138:LYS:O	3:N:452:ILE:HD12	2.03	0.58
3:N:811:GLU:O	3:N:815:ALA:HB3	2.02	0.58
5:P:364:ARG:HG3	5:P:364:ARG:HH11	1.68	0.58
2:C:141:HIS:HB2	2:C:418:LEU:HD12	1.84	0.58
2:C:446:GLY:O	2:C:449:ILE:HG13	2.02	0.58
2:C:80:GLN:O	2:C:83:CYS:N	2.35	0.58
3:D:1076:GLY:HA2	3:D:1079:LYS:HG2	1.85	0.58
3:D:462:GLN:HG3	3:D:513:ILE:HD13	1.85	0.58
3:D:701:LEU:N	3:D:701:LEU:HD12	2.17	0.58
3:D:843:PHE:CD1	3:D:849:ALA:HA	2.38	0.58
3:D:23:TYR:CE2	3:D:89:ARG:NH1	2.71	0.58
5:F:278:LEU:CB	5:F:286:PRO:HG2	2.34	0.58
2:M:620:LEU:O	2:M:620:LEU:HG	2.03	0.58
3:N:1489:GLN:HA	3:N:1489:GLN:NE2	2.19	0.58
2:C:657:ASP:OD1	2:C:661:SER:HB3	2.03	0.58
3:D:148:GLU:HB3	3:D:151:GLN:HB2	1.85	0.58
3:D:79:GLU:HG2	3:D:80:VAL:N	2.17	0.58
4:E:47:LYS:HA	4:E:54:LEU:HB3	1.85	0.58
5:F:368:VAL:HG11	5:F:389:PHE:HD1	1.66	0.58
5:F:371:LEU:O	5:F:375:LEU:N	2.36	0.58
1:K:176:ARG:HH12	2:M:863:ASP:HB2	1.68	0.58
1:L:206:THR:HG23	1:L:208:LEU:H	1.69	0.58
2:M:435:TYR:O	2:M:437:ARG:HG2	2.04	0.58
2:M:605:LYS:HB2	2:M:610:ARG:NH1	2.16	0.58
1:K:42:ARG:HH12	2:M:857:ASP:HB3	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:881:ASN:H	2:M:881:ASN:HD22	1.52	0.58
3:N:387:LEU:HD21	5:P:97:GLU:HG2	1.86	0.58
1:A:224:TYR:CD2	1:B:9:PRO:HG2	2.37	0.58
2:C:524:VAL:HG22	2:C:525:SER:N	2.15	0.58
2:C:583:LEU:O	2:C:587:VAL:HG23	2.03	0.58
2:C:801:VAL:O	2:C:802:ARG:HB2	2.02	0.58
3:D:103:TRP:HZ2	3:D:604:THR:HG1	1.52	0.58
3:D:1103:HIS:O	3:D:1105:ILE:N	2.37	0.58
3:D:136:ASP:CB	3:D:137:PRO:CD	2.77	0.58
3:D:172:PRO:HB3	3:D:178:LEU:HB2	1.84	0.58
3:D:217:LYS:HZ1	3:D:389:GLU:HB3	1.67	0.58
3:D:764:LEU:O	3:D:765:SER:C	2.42	0.58
5:F:85:LEU:HA	5:F:88:ILE:HB	1.85	0.58
2:M:471:TYR:CD1	2:M:486:MET:HE1	2.38	0.58
3:N:1372:VAL:O	3:N:1375:MET:HG3	2.03	0.58
3:N:688:TRP:O	3:N:691:LEU:HB3	2.03	0.58
3:N:729:HIS:ND1	3:N:730:PRO:HD2	2.19	0.58
3:N:850:LEU:HA	3:N:853:VAL:CG2	2.34	0.58
1:A:186:LEU:HB2	1:A:192:LEU:HD13	1.85	0.58
2:C:140:ILE:HA	2:C:332:ARG:O	2.03	0.58
2:C:517:ARG:O	2:C:520:GLU:HB2	2.03	0.58
2:C:435:TYR:CE1	2:C:539:VAL:CG2	2.86	0.58
2:C:71:TYR:H	2:C:71:TYR:HD2	1.51	0.58
2:C:958:THR:HG23	2:C:961:GLU:H	1.69	0.58
3:D:1062:ARG:CG	3:D:1062:ARG:NH1	2.61	0.58
3:D:1110:ALA:O	3:D:1112:CYS:N	2.36	0.58
3:D:646:LYS:HG3	3:D:647:ARG:H	1.68	0.58
1:L:175:ARG:N	1:L:200:TRP:O	2.33	0.58
1:L:28:LEU:O	1:L:192:LEU:HD22	2.03	0.58
2:M:200:LEU:HD13	2:M:300:ASP:CG	2.24	0.58
3:N:1104:GLU:O	3:N:1108:ARG:NH2	2.36	0.58
3:N:58:CYS:SG	3:N:78:VAL:HB	2.42	0.58
4:O:60:ALA:O	4:O:63:TRP:HB2	2.03	0.58
1:A:184:THR:O	1:A:192:LEU:HD12	2.03	0.58
1:B:173:PRO:CB	1:B:205:VAL:HG22	2.34	0.58
2:C:490:GLU:HG3	2:C:493:ARG:NH1	2.18	0.58
2:C:952:LEU:HD12	2:C:969:GLN:NE2	2.18	0.58
3:D:1277:ILE:O	3:D:1321:ALA:HA	2.03	0.58
2:C:1020:PRO:O	3:D:622:ARG:HD2	2.04	0.58
3:D:794:GLN:NE2	3:D:795:VAL:H	2.01	0.58
3:D:932:ASP:O	3:D:935:LYS:HB3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:996:TRP:O	3:D:999:THR:N	2.37	0.58
1:K:206:THR:HG22	1:K:209:GLU:CB	2.34	0.58
1:L:206:THR:HG23	1:L:208:LEU:N	2.18	0.58
1:L:92:PRO:C	1:L:94:LEU:H	2.06	0.58
2:M:195:LEU:HD21	2:M:238:LEU:HG	1.84	0.58
2:M:578:VAL:HG13	2:M:671:ASN:CG	2.24	0.58
2:M:710:ILE:HD12	2:M:790:LEU:HB2	1.84	0.58
3:N:1033:GLN:O	3:N:1037:GLN:HG3	2.04	0.58
3:N:1047:LYS:HB3	3:N:1048:PRO:HD2	1.85	0.58
3:N:1256:LEU:HB3	3:N:1257:PRO:HD3	1.85	0.58
3:N:196:VAL:HG13	3:N:202:VAL:HG13	1.84	0.58
3:N:95:LEU:HD12	3:N:515:GLU:HA	1.86	0.58
3:N:912:LYS:HZ2	3:N:912:LYS:HB3	1.68	0.58
2:C:230:ARG:HG3	2:C:233:GLU:HB3	1.85	0.58
3:D:32:ILE:HG23	3:D:38:LYS:O	2.04	0.58
3:D:469:ASP:O	3:D:472:ALA:HB3	2.04	0.58
3:D:86:ARG:O	3:D:522:PRO:HD2	2.04	0.58
2:C:1005:MET:HE1	3:D:645:PRO:HD2	1.84	0.58
5:F:164:LYS:HB2	5:F:171:LYS:NZ	2.19	0.58
5:F:416:ARG:NH2	5:F:419:ARG:CD	2.65	0.58
5:F:81:VAL:O	5:F:85:LEU:HG	2.02	0.58
2:M:545:ASN:OD1	2:M:905:ILE:HD13	2.04	0.58
2:M:610:ARG:HG3	2:M:610:ARG:NH1	2.19	0.58
2:M:810:ASP:HB3	2:M:813:VAL:HG22	1.86	0.58
3:N:709:HIS:NE2	3:N:711:LEU:HB2	2.19	0.58
3:N:93:ILE:HD13	3:N:548:ILE:HG12	1.84	0.58
2:C:129:ILE:HB	2:C:134:ARG:HD2	1.85	0.58
2:C:555:ALA:HB2	3:D:1070:TYR:CE1	2.38	0.58
2:C:721:ARG:HG3	2:C:721:ARG:HH11	1.67	0.58
3:D:1057:VAL:O	3:D:1057:VAL:HG12	2.04	0.58
3:D:1076:GLY:HA2	3:D:1079:LYS:CG	2.34	0.58
3:D:1345:GLU:O	3:D:1349:VAL:HG23	2.04	0.58
3:D:77:GLY:O	3:D:78:VAL:CG2	2.50	0.58
3:D:89:ARG:O	3:D:521:PRO:HG3	2.04	0.58
4:E:40:LEU:HD22	4:E:45:ARG:HH11	1.68	0.58
1:L:195:LEU:HD12	1:L:196:THR:N	2.19	0.58
2:M:711:GLU:HG2	2:M:822:VAL:HG12	1.85	0.58
3:N:455:ARG:NH1	3:N:455:ARG:HG2	2.19	0.58
3:N:826:PRO:O	3:N:836:VAL:HG11	2.02	0.58
1:A:94:LEU:HD23	1:A:97:VAL:CG2	2.34	0.58
2:C:689:VAL:O	2:C:690:ILE:HD13	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1084:THR:HG22	3:D:1087:ARG:NH2	2.18	0.58
3:D:1155:VAL:CG1	3:D:1183:ILE:HD11	2.33	0.58
3:D:1331:ASP:OD2	3:D:1332:PRO:HD2	2.04	0.58
3:D:693:GLU:O	3:D:694:VAL:C	2.43	0.58
3:D:806:PHE:HD1	3:D:812:ALA:HB3	1.69	0.58
3:D:994:GLN:HE21	3:D:998:GLU:CD	2.07	0.58
4:E:61:GLU:OE1	4:E:62:THR:N	2.37	0.58
1:L:61:VAL:HG21	1:L:68:ILE:HD11	1.85	0.58
1:L:74:ASP:O	1:L:78:ILE:HG13	2.04	0.58
2:M:577:PRO:HG3	2:M:993:PHE:CD1	2.39	0.58
3:N:1282:ARG:NH1	3:N:1282:ARG:HB3	2.19	0.58
3:N:175:VAL:O	3:N:179:VAL:HG21	2.04	0.58
1:A:202:ASP:OD1	1:A:204:SER:HB2	2.04	0.57
2:C:676:ILE:O	3:D:948:THR:CG2	2.52	0.57
3:D:858:VAL:HG12	3:D:862:ASP:CB	2.34	0.57
1:L:226:SER:O	1:L:228:PRO:HD3	2.03	0.57
2:M:157:ARG:NH1	2:M:314:THR:HB	2.18	0.57
2:M:524:VAL:HG22	2:M:525:SER:H	1.67	0.57
1:K:176:ARG:NH2	2:M:865:THR:HB	2.19	0.57
3:N:996:TRP:CD2	3:N:1056:PRO:HG2	2.38	0.57
3:N:163:TYR:OH	3:N:394:LEU:HD23	2.03	0.57
2:M:1052:MET:HE2	3:N:748:HIS:HB3	1.85	0.57
3:N:76:CYS:HG	3:N:78:VAL:HG23	1.67	0.57
1:A:38:ASN:O	1:A:39:PRO:C	2.40	0.57
2:C:1013:TYR:CE1	2:C:1020:PRO:HG3	2.39	0.57
2:C:1062:GLY:O	2:C:1063:ARG:C	2.41	0.57
2:C:571:LEU:HD23	2:C:700:TYR:HA	1.85	0.57
3:D:1015:TYR:O	3:D:1017:PHE:N	2.37	0.57
3:D:1043:GLY:HA2	3:D:1057:VAL:H	1.69	0.57
3:D:1112:CYS:HB3	3:D:1195:GLN:OE1	2.04	0.57
3:D:1432:LYS:NZ	3:D:1460:ILE:HB	2.18	0.57
3:D:55:ASP:CA	3:D:82:LYS:HG2	2.32	0.57
4:E:38:THR:HB	4:E:63:TRP:HZ3	1.69	0.57
4:E:51:LEU:HD12	4:E:52:GLU:N	2.19	0.57
1:L:86:VAL:CG1	1:L:124:ASN:HD22	2.15	0.57
2:M:11:GLU:O	2:M:13:ILE:N	2.37	0.57
2:M:129:ILE:HD12	2:M:129:ILE:N	2.19	0.57
2:M:172:ILE:CD1	2:M:172:ILE:H	2.05	0.57
3:N:632:VAL:O	3:N:727:GLN:HA	2.04	0.57
1:A:131:THR:C	1:A:132:LEU:HD12	2.25	0.57
1:A:1:MET:CB	1:A:6:LEU:HB2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:137:VAL:O	2:C:391:LEU:HD11	2.04	0.57
2:C:976:ASP:O	2:C:978:ARG:N	2.37	0.57
3:D:1229:ILE:HD11	3:D:1367:HIS:C	2.25	0.57
3:D:1494:ALA:HA	3:D:1497:GLU:HG2	1.87	0.57
3:D:970:LYS:HA	3:D:973:GLN:NE2	2.18	0.57
5:F:287:THR:C	5:F:289:GLU:H	2.07	0.57
3:D:388:HIS:NE2	5:F:94:LEU:HG	2.19	0.57
1:K:6:LEU:C	1:K:8:ALA:H	2.06	0.57
2:M:1050:GLN:O	2:M:1053:LEU:N	2.35	0.57
2:M:1067:TYR:O	2:M:1071:ILE:HG12	2.04	0.57
2:M:534:VAL:H	2:M:538:GLN:NE2	2.03	0.57
3:N:523:ASP:O	3:N:526:PRO:HG3	2.04	0.57
1:A:198:ARG:C	1:A:199:ILE:HD12	2.25	0.57
1:A:43:ILE:HD11	1:B:35:THR:CG2	2.25	0.57
3:D:15:PRO:O	3:D:19:ARG:HG3	2.04	0.57
3:D:34:TYR:HE2	5:F:260:ILE:HG13	1.70	0.57
3:D:994:GLN:NE2	3:D:998:GLU:CD	2.57	0.57
2:M:350:ARG:HG2	2:M:350:ARG:NH1	2.19	0.57
2:M:625:LEU:O	2:M:627:ARG:N	2.36	0.57
2:M:863:ASP:CG	2:M:865:THR:HG22	2.24	0.57
2:M:86:LYS:O	2:M:88:LEU:N	2.33	0.57
2:M:838:LYS:CG	2:M:997:LEU:HB2	2.34	0.57
3:N:1144:LEU:HD11	3:N:1186:VAL:HG21	1.87	0.57
3:N:1229:ILE:HD11	3:N:1368:ILE:HA	1.86	0.57
3:N:989:TYR:CE2	3:N:1243:THR:HG21	2.38	0.57
3:N:660:LYS:HA	3:N:663:GLU:OE2	2.04	0.57
3:N:631:ILE:HD13	3:N:745:MET:HG3	1.87	0.57
3:N:879:ARG:HB3	3:N:902:LEU:HB2	1.86	0.57
5:P:361:LEU:CD2	5:P:408:LEU:HB2	2.24	0.57
1:A:32:PHE:C	1:A:34:VAL:N	2.58	0.57
1:A:67:THR:HG21	2:C:609:ASN:ND2	2.20	0.57
2:C:198:ARG:HD3	2:C:198:ARG:O	2.04	0.57
3:D:1372:VAL:HA	3:D:1375:MET:HE3	1.86	0.57
2:M:368:THR:HB	2:M:369:PRO:CD	2.33	0.57
2:M:605:LYS:O	2:M:611:ILE:HA	2.04	0.57
3:N:136:ASP:HB3	3:N:137:PRO:CD	2.27	0.57
3:N:227:LEU:H	3:N:227:LEU:HD13	1.69	0.57
2:M:1030:GLN:HB2	3:N:626:SER:HB3	1.85	0.57
3:N:810:GLU:O	3:N:813:LEU:HG	2.04	0.57
5:P:88:ILE:HG21	5:P:193:ARG:HH11	1.68	0.57
1:B:101:LEU:HD23	1:B:101:LEU:C	2.24	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:564:MET:CE	2:C:846:LYS:HE2	2.34	0.57
3:D:1109:GLU:HG2	3:D:1201:CYS:CB	2.33	0.57
1:K:63:HIS:HD2	1:K:65:PHE:H	1.50	0.57
3:N:1364:HIS:CE1	3:N:1366:LYS:HG3	2.40	0.57
3:N:1401:GLU:O	3:N:1405:GLU:HG2	2.05	0.57
3:N:1385:GLY:HA2	3:N:1413:THR:HG21	1.86	0.57
1:L:176:ARG:HH22	3:N:884:ARG:HD3	1.69	0.57
4:O:88:GLU:O	4:O:92:ILE:HG12	2.04	0.57
5:P:151:LEU:HB2	5:P:155:THR:CB	2.34	0.57
1:A:44:LEU:O	1:A:174:VAL:HG21	2.05	0.57
1:A:23:PHE:O	1:A:196:THR:HA	2.05	0.57
2:C:1070:ILE:O	2:C:1073:GLY:N	2.37	0.57
2:C:265:ARG:CG	2:C:288:ARG:HG3	2.28	0.57
2:C:471:TYR:HE2	2:C:496:ILE:HG21	1.66	0.57
2:C:858:MET:HB2	2:C:859:PRO:HD2	1.87	0.57
3:D:220:ARG:HA	3:D:367:ILE:HG22	1.86	0.57
3:D:698:LYS:HA	3:D:756:GLN:NE2	2.20	0.57
3:D:792:ILE:HG21	3:D:941:PHE:CD1	2.40	0.57
3:D:970:LYS:HD2	3:D:995:LEU:HD13	1.87	0.57
5:F:358:LEU:HD21	5:F:370:LYS:NZ	2.19	0.57
5:F:94:LEU:HB2	5:F:98:GLU:OE1	2.04	0.57
1:K:39:PRO:HA	1:L:35:THR:HG23	1.86	0.57
1:K:39:PRO:HG3	1:L:39:PRO:CG	2.33	0.57
1:L:2:LEU:CD1	1:L:3:ASP:H	2.17	0.57
2:M:237:ARG:O	2:M:240:THR:HB	2.03	0.57
2:M:266:ARG:CG	2:M:273:GLY:HA3	2.34	0.57
2:M:462:ASP:OD2	2:M:466:PHE:HB2	2.04	0.57
2:M:641:PRO:O	2:M:642:ARG:HD3	2.04	0.57
2:M:77:PRO:HD3	2:M:93:PRO:CD	2.32	0.57
2:M:73:LEU:HD23	2:M:94:LEU:HA	1.86	0.57
3:N:116:LEU:CB	3:N:118:LEU:HD13	2.34	0.57
3:N:1489:GLN:HE21	3:N:1489:GLN:HA	1.70	0.57
3:N:591:VAL:CA	3:N:600:LEU:HD21	2.33	0.57
3:N:948:THR:C	3:N:949:ILE:HG13	2.25	0.57
4:O:36:LYS:C	4:O:38:THR:H	2.08	0.57
4:O:36:LYS:HA	4:O:36:LYS:HE2	1.86	0.57
4:O:54:LEU:HA	4:O:58:PRO:HG2	1.85	0.57
5:P:243:ILE:O	5:P:247:ILE:HG13	2.04	0.57
5:P:369:LEU:HB3	5:P:373:LYS:HD3	1.86	0.57
1:A:227:ASN:HD22	1:A:227:ASN:N	2.02	0.57
2:C:1045:ALA:HA	3:D:758:GLU:OE2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:160:ALA:HB3	2:C:174:LEU:HB2	1.87	0.57
2:C:279:GLU:OE2	2:C:489:THR:HG21	2.05	0.57
2:C:309:TYR:O	2:C:313:LEU:N	2.37	0.57
2:C:110:GLU:CG	2:C:369:PRO:HG3	2.30	0.57
2:C:549:PHE:O	2:C:550:LEU:C	2.43	0.57
2:C:15:LEU:HD22	2:C:583:LEU:CD2	2.35	0.57
2:C:758:ARG:HG2	2:C:759:THR:N	2.20	0.57
2:C:895:TYR:HD2	2:C:896:PHE:CD1	2.23	0.57
3:D:1372:VAL:HG22	3:D:1375:MET:HE3	1.86	0.57
3:D:216:VAL:HG12	3:D:217:LYS:H	1.68	0.57
1:K:122:ILE:O	1:K:125:PRO:HD3	2.05	0.57
1:L:176:ARG:H	1:L:200:TRP:HB3	1.70	0.57
2:M:1085:PHE:O	2:M:1088:LEU:N	2.37	0.57
2:M:91:GLN:HE21	2:M:119:PRO:HG3	1.69	0.57
3:N:1114:THR:HB	3:N:1195:GLN:HB2	1.86	0.57
3:N:1372:VAL:HA	3:N:1375:MET:HE2	1.86	0.57
3:N:539:ASP:OD2	3:N:598:ARG:NH2	2.37	0.57
3:N:540:LEU:HA	3:N:543:LEU:CD1	2.35	0.57
3:N:679:ARG:HB2	3:N:682:ASP:OD1	2.05	0.57
5:P:273:ARG:O	5:P:276:ARG:HB2	2.04	0.57
1:B:107:LYS:O	1:B:132:LEU:HB2	2.05	0.57
2:C:129:ILE:O	2:C:130:ASN:OD1	2.22	0.57
2:C:291:ALA:O	2:C:292:ARG:HB2	2.03	0.57
2:C:470:PRO:HG3	2:C:485:TYR:CE2	2.40	0.57
2:C:606:VAL:HG11	2:C:643:VAL:O	2.05	0.57
3:D:1264:GLU:O	3:D:1266:ARG:HD2	2.04	0.57
3:D:10:ILE:HG22	3:D:1451:ALA:HA	1.85	0.57
3:D:960:LYS:HE3	3:D:1040:GLY:O	2.03	0.57
1:L:176:ARG:HH22	3:N:884:ARG:NE	2.03	0.57
2:M:92:ALA:HB2	2:M:120:LEU:HD11	1.86	0.57
3:N:44:LEU:CB	3:N:525:ARG:HH22	2.12	0.57
3:N:828:LYS:HD2	3:N:862:ASP:OD2	2.04	0.57
5:P:174:LEU:O	5:P:177:ALA:HB3	2.04	0.57
1:A:144:VAL:HG12	1:A:145:ASP:H	1.67	0.57
1:A:31:GLY:HA2	1:A:193:ASP:OD2	2.05	0.57
1:B:167:VAL:HG12	1:B:168:ASP:N	2.20	0.57
3:D:237:LYS:CB	3:D:238:PRO:HD3	2.35	0.57
3:D:179:VAL:CG1	3:D:389:GLU:HG3	2.33	0.57
3:D:432:TYR:HB3	3:D:448:GLU:HG2	1.86	0.57
5:F:138:SER:OG	5:F:140:ARG:HG2	2.05	0.57
2:M:211:LEU:HD11	2:M:308:ARG:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:46:ALA:O	2:M:50:GLU:HB2	2.05	0.57
3:N:104:PHE:HD2	3:N:104:PHE:N	2.03	0.57
3:N:1412:LYS:HG3	3:N:1412:LYS:O	2.04	0.57
3:N:714:GLN:HE22	3:N:732:VAL:CG1	2.17	0.57
3:N:892:ASP:OD2	3:N:895:VAL:HG21	2.05	0.57
5:P:302:LYS:HD2	5:P:302:LYS:C	2.26	0.57
5:P:79:ASP:HB3	5:P:80:PRO:HD3	1.87	0.57
1:B:75:VAL:O	1:B:79:ILE:HG12	2.05	0.56
2:C:713:ARG:HB3	2:C:713:ARG:HH11	1.68	0.56
2:C:855:VAL:HG13	2:C:856:GLU:N	2.20	0.56
3:D:1086:LEU:CD2	6:D:1525:STD:H113	2.33	0.56
3:D:1096:ARG:HB2	3:D:1096:ARG:NH1	2.20	0.56
3:D:109:PRO:O	3:D:111:LYS:N	2.38	0.56
3:D:1147:ARG:O	3:D:1166:LEU:N	2.32	0.56
5:F:278:LEU:HB3	5:F:286:PRO:HG3	1.87	0.56
1:K:87:VAL:HG21	1:K:144:VAL:HG11	1.86	0.56
1:K:13:VAL:CG1	1:K:14:ARG:N	2.68	0.56
2:M:135:VAL:HB	2:M:406:HIS:CE1	2.39	0.56
2:M:428:ARG:HE	2:M:449:ILE:HG23	1.70	0.56
2:M:473:ARG:HG2	2:M:473:ARG:HH11	1.68	0.56
2:M:715:THR:HG22	2:M:717:LEU:H	1.68	0.56
3:N:1043:GLY:O	3:N:1056:PRO:HA	2.05	0.56
3:N:104:PHE:CD2	3:N:104:PHE:N	2.72	0.56
3:N:1108:ARG:NH2	3:N:1198:TYR:O	2.37	0.56
3:N:177:ALA:O	3:N:199:LEU:HD13	2.05	0.56
3:N:39:PRO:HG2	3:N:47:GLU:HG3	1.87	0.56
3:N:568:ARG:O	3:N:570:GLU:N	2.38	0.56
3:N:76:CYS:SG	3:N:76:CYS:O	2.62	0.56
4:O:26:ARG:HH22	4:O:39:VAL:HG13	1.68	0.56
5:P:271:LEU:O	5:P:275:ALA:HB2	2.05	0.56
5:P:287:THR:CG2	5:P:290:GLU:HB2	2.35	0.56
1:A:142:VAL:HG23	1:A:142:VAL:O	2.05	0.56
1:A:13:VAL:HG12	1:A:14:ARG:H	1.70	0.56
2:C:1011:GLY:O	2:C:1013:TYR:CE2	2.58	0.56
2:C:813:VAL:CG2	2:C:815:LEU:HD13	2.35	0.56
3:D:475:LYS:HA	3:D:478:LEU:HD12	1.87	0.56
3:D:624:ASP:HB3	3:D:625:TYR:CD1	2.40	0.56
5:F:234:LYS:HD2	5:F:236:SER:H	1.69	0.56
1:L:216:GLU:OE2	1:L:219:ARG:NH2	2.38	0.56
2:M:878:SER:HB3	3:N:1029:ARG:NE	2.20	0.56
3:N:590:PRO:O	3:N:600:LEU:HG	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:196:VAL:HG13	5:P:213:ILE:CD1	2.35	0.56
2:C:452:ILE:N	2:C:452:ILE:HD12	2.20	0.56
2:C:51:THR:HB	2:C:348:LEU:HD23	1.86	0.56
2:C:829:GLN:CD	2:C:831:ARG:HD3	2.26	0.56
2:C:95:TYR:HB3	2:C:113:VAL:C	2.25	0.56
3:D:160:GLU:HG2	3:D:165:LYS:HD3	1.88	0.56
3:D:218:LYS:HD3	3:D:371:ILE:H	1.68	0.56
1:K:206:THR:HG22	1:K:209:GLU:HB2	1.87	0.56
2:M:288:ARG:NE	2:M:288:ARG:CA	2.69	0.56
3:N:187:LYS:HZ3	3:N:212:ARG:HA	1.70	0.56
3:N:368:VAL:CG2	3:N:369:ALA:H	2.08	0.56
3:N:777:PRO:HD2	3:N:912:LYS:HG2	1.87	0.56
2:C:1031:ARG:HD3	3:D:619:LEU:HD21	1.87	0.56
2:C:876:VAL:N	2:C:877:PRO:HD2	2.19	0.56
4:E:54:LEU:CB	4:E:58:PRO:HG2	2.36	0.56
3:D:131:LYS:HD3	5:F:83:GLN:NE2	2.21	0.56
5:F:85:LEU:O	5:F:89:GLY:N	2.33	0.56
2:M:1038:TRP:HA	2:M:1041:GLU:OE1	2.04	0.56
2:M:52:PHE:O	2:M:54:ILE:N	2.38	0.56
3:N:1396:GLU:HA	3:N:1399:ASP:CG	2.26	0.56
3:N:840:LYS:HD2	3:N:841:TYR:CZ	2.40	0.56
4:O:40:LEU:HD13	4:O:45:ARG:HD2	1.87	0.56
2:C:21:ILE:H	2:C:21:ILE:CD1	2.10	0.56
2:C:368:THR:HB	2:C:369:PRO:CD	2.30	0.56
2:C:525:SER:OG	2:C:528:GLU:HG3	2.04	0.56
2:C:690:ILE:HG22	2:C:691:SER:N	2.19	0.56
2:C:715:THR:HG22	2:C:716:LYS:N	2.20	0.56
3:D:1103:HIS:HD2	3:D:1462:LEU:H	1.54	0.56
3:D:493:ARG:HB2	3:D:493:ARG:NH1	2.19	0.56
3:D:675:ARG:NH2	5:F:420:ASP:HB3	2.21	0.56
4:E:26:ARG:NE	4:E:30:LEU:HD13	2.21	0.56
5:F:386:VAL:C	5:F:388:ALA:H	2.09	0.56
1:L:101:LEU:HB3	1:L:140:MET:SD	2.45	0.56
2:M:1103:ASP:CG	2:M:1104:GLU:N	2.58	0.56
2:M:13:ILE:HG13	2:M:13:ILE:O	2.04	0.56
2:M:580:MET:HB3	2:M:584:GLU:OE1	2.05	0.56
2:M:917:LEU:HA	2:M:920:GLN:HG3	1.88	0.56
3:N:1217:ILE:HD12	3:N:1480:PHE:CE2	2.41	0.56
2:M:1045:ALA:HB2	3:N:763:MET:SD	2.45	0.56
1:A:109:VAL:HG21	1:A:138:LEU:HD23	1.86	0.56
1:A:226:SER:O	1:A:228:PRO:HD3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:19:THR:HG22	2:C:19:THR:O	2.04	0.56
2:C:300:ASP:C	2:C:302:VAL:H	2.08	0.56
2:C:516:ARG:HH11	2:C:521:PRO:CA	2.18	0.56
2:C:657:ASP:HB3	2:C:661:SER:HB2	1.87	0.56
3:D:1503:VAL:O	3:D:1505:ALA:N	2.39	0.56
3:D:232:GLU:O	3:D:232:GLU:HG3	2.05	0.56
3:D:537:THR:HG23	3:D:537:THR:O	2.04	0.56
3:D:650:LEU:HD13	3:D:688:TRP:HZ3	1.70	0.56
3:D:809:PRO:HB2	3:D:812:ALA:HB2	1.88	0.56
3:D:994:GLN:NE2	3:D:998:GLU:OE2	2.38	0.56
2:M:443:THR:HB	2:M:444:PRO:HD2	1.87	0.56
2:M:939:ARG:NH1	2:M:981:GLU:HG2	2.21	0.56
3:N:1012:GLU:HG3	3:N:1021:TYR:OH	2.04	0.56
3:N:82:LYS:HZ2	5:P:339:PRO:HG2	1.70	0.56
1:B:58:ILE:HG21	1:B:68:ILE:CD1	2.36	0.56
2:C:1033:GLY:O	2:C:1036:GLU:HB2	2.06	0.56
2:C:45:GLN:NE2	2:C:68:PHE:HE2	2.02	0.56
2:C:588:VAL:CG2	2:C:589:ARG:H	2.18	0.56
2:C:636:ALA:HB2	2:C:705:ILE:HD11	1.88	0.56
3:D:1438:ALA:C	3:D:1440:PHE:H	2.09	0.56
2:C:1043:TYR:CE1	3:D:710:ARG:O	2.59	0.56
3:D:806:PHE:CE1	3:D:809:PRO:O	2.58	0.56
2:M:44:ILE:HD12	2:M:44:ILE:N	2.20	0.56
2:M:722:ILE:CD1	2:M:823:VAL:HG21	2.35	0.56
2:M:750:LYS:HB2	3:N:681:ARG:NH2	2.21	0.56
2:M:755:LEU:O	2:M:756:VAL:CG2	2.54	0.56
2:M:881:ASN:N	2:M:881:ASN:HD22	2.04	0.56
2:M:978:ARG:HH11	2:M:978:ARG:HG3	1.70	0.56
3:N:1042:ARG:NH1	3:N:1045:MET:SD	2.70	0.56
3:N:1148:VAL:O	3:N:1188:VAL:HG23	2.04	0.56
3:N:1493:LYS:O	3:N:1497:GLU:HG2	2.04	0.56
3:N:844:ALA:O	3:N:867:ARG:HB3	2.06	0.56
5:P:160:ASP:HA	5:P:163:LEU:HD12	1.87	0.56
1:B:54:THR:CG2	1:B:143:ARG:HG2	2.36	0.56
2:C:276:LYS:H	2:C:276:LYS:HD2	1.71	0.56
2:C:211:LEU:HD13	2:C:304:LEU:HD11	1.88	0.56
2:C:838:LYS:O	2:C:839:LEU:HD23	2.05	0.56
3:D:1237:THR:HG22	3:D:1238:MET:N	2.21	0.56
3:D:592:THR:OG1	3:D:600:LEU:HD21	2.05	0.56
5:F:156:VAL:HG23	5:F:157:GLU:H	1.71	0.56
2:M:97:ARG:HH21	2:M:109:LYS:NZ	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:878:SER:HB3	3:N:1029:ARG:CD	2.35	0.56
3:N:1295:GLU:HB3	3:N:1300:SER:HA	1.86	0.56
5:P:398:ARG:HD3	5:P:399:GLN:HG2	1.85	0.56
2:C:615:TYR:HB3	2:C:617:ASP:OD2	2.06	0.56
3:D:571:LYS:HB2	3:D:571:LYS:HZ3	1.71	0.56
3:D:85:VAL:HB	3:D:89:ARG:NE	2.21	0.56
1:L:13:VAL:HG13	1:L:22:GLU:O	2.05	0.56
2:M:1005:MET:O	2:M:1005:MET:HG3	2.05	0.56
2:M:194:VAL:HG21	2:M:221:LEU:HA	1.88	0.56
2:M:313:LEU:C	2:M:315:ALA:H	2.09	0.56
2:M:371:LYS:O	2:M:372:LEU:HD23	2.05	0.56
2:M:549:PHE:HA	2:M:551:GLU:OE2	2.05	0.56
2:M:676:ILE:O	2:M:676:ILE:HG23	2.06	0.56
2:M:839:LEU:HD21	2:M:849:VAL:CG2	2.36	0.56
2:M:974:LEU:HB3	2:M:983:ILE:HG13	1.87	0.56
3:N:1267:ARG:HA	3:N:1331:ASP:OD2	2.06	0.56
3:N:183:GLU:OE2	3:N:216:VAL:HG13	2.06	0.56
5:P:134:LYS:O	5:P:178:ARG:HD3	2.04	0.56
5:P:287:THR:HG23	5:P:290:GLU:H	1.71	0.56
1:A:44:LEU:HA	1:A:48:ILE:HD11	1.86	0.56
1:B:62:LEU:HD12	1:B:62:LEU:H	1.71	0.56
2:C:116:GLY:HA2	2:C:379:GLU:CD	2.26	0.56
2:C:676:ILE:HG23	2:C:988:VAL:HG13	1.88	0.56
2:C:874:LEU:HD23	3:D:1023:MET:SD	2.45	0.56
3:D:1273:VAL:CG2	3:D:1305:LEU:HD21	2.36	0.56
3:D:173:PRO:HG2	3:D:200:ASP:HB3	1.88	0.56
3:D:78:VAL:C	3:D:79:GLU:O	2.42	0.56
4:E:9:LEU:HB3	4:E:19:LEU:CD2	2.34	0.56
5:F:345:ALA:O	5:F:348:SER:HB3	2.05	0.56
5:F:84:TYR:HB3	5:F:88:ILE:CD1	2.35	0.56
2:M:1055:LEU:HD21	2:M:1079:PRO:HG3	1.87	0.56
2:M:1105:LYS:O	2:M:1107:ASN:N	2.39	0.56
2:M:77:PRO:CD	2:M:93:PRO:HD3	2.32	0.56
3:N:32:ILE:HG22	3:N:33:ASN:N	2.21	0.56
2:M:1071:ILE:O	3:N:659:LYS:HD3	2.05	0.56
3:N:84:ILE:C	3:N:86:ARG:H	2.08	0.56
1:A:91:ASN:CG	1:A:92:PRO:HD2	2.26	0.56
2:C:199:VAL:O	2:C:199:VAL:HG12	2.06	0.56
2:C:816:LYS:HE2	2:C:819:VAL:HG21	1.87	0.56
2:C:881:ASN:H	2:C:881:ASN:ND2	2.04	0.56
3:D:1020:LEU:HA	3:D:1023:MET:CE	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1335:LEU:HD23	3:D:1335:LEU:O	2.06	0.56
3:D:1404:ASN:ND2	3:D:1408:ILE:HD12	2.21	0.56
3:D:63:TYR:O	3:D:64:LYS:HG3	2.05	0.56
3:D:711:LEU:HG	3:D:778:LEU:HD23	1.87	0.56
3:D:820:GLU:HG3	3:D:836:VAL:CG2	2.35	0.56
5:F:184:ARG:O	5:F:188:ILE:HG13	2.06	0.56
1:K:23:PHE:HB2	1:K:197:LEU:HD23	1.87	0.56
2:M:1036:GLU:HG3	3:N:703:ASN:OD1	2.06	0.56
2:M:256:TYR:CZ	2:M:293:PHE:HB2	2.41	0.56
2:M:470:PRO:O	2:M:471:TYR:CG	2.59	0.56
2:M:666:LEU:HG	2:M:668:LEU:HD11	1.86	0.56
3:N:1048:PRO:O	3:N:1049:SER:O	2.24	0.56
3:N:984:THR:HG22	3:N:987:GLU:CB	2.26	0.56
1:A:100:LEU:HB2	1:A:115:LEU:HD11	1.88	0.55
1:A:64:GLU:O	1:A:76:VAL:HG22	2.06	0.55
1:A:99:LEU:N	1:A:99:LEU:CD1	2.68	0.55
3:D:1264:GLU:O	3:D:1265:ALA:C	2.44	0.55
3:D:47:GLU:HA	3:D:51:GLY:O	2.05	0.55
3:D:57:GLU:HG3	3:D:64:LYS:HG2	1.88	0.55
4:E:39:VAL:HG22	4:E:67:GLU:CD	2.26	0.55
1:K:39:PRO:HG3	1:L:39:PRO:HG3	1.88	0.55
2:M:1003:ASP:O	2:M:1005:MET:N	2.39	0.55
2:M:1063:ARG:O	2:M:1066:ALA:HB3	2.06	0.55
2:M:89:THR:HG23	2:M:129:ILE:HA	1.87	0.55
3:N:162:ARG:HB2	3:N:434:ARG:HH21	1.71	0.55
3:N:820:GLU:HG2	3:N:825:ALA:O	2.05	0.55
1:A:1:MET:O	1:A:6:LEU:HD22	2.05	0.55
1:A:97:VAL:HG12	1:A:98:THR:N	2.21	0.55
1:B:206:THR:N	1:B:209:GLU:OE1	2.34	0.55
2:C:1003:ASP:O	2:C:1005:MET:N	2.39	0.55
2:C:1096:ALA:O	3:D:13:ALA:HB3	2.06	0.55
2:C:233:GLU:OE1	2:C:237:ARG:HB2	2.07	0.55
2:C:949:LYS:HE2	3:D:828:LYS:NZ	2.22	0.55
3:D:1146:GLY:HA3	3:D:1207:TYR:CB	2.37	0.55
3:D:374:GLU:CG	3:D:386:HIS:HA	2.35	0.55
3:D:605:ASP:OD1	3:D:605:ASP:N	2.37	0.55
3:D:651:GLU:OE1	3:D:654:LYS:HD2	2.05	0.55
3:D:659:LYS:HD3	3:D:659:LYS:O	2.05	0.55
3:D:8:VAL:HG12	3:D:1434:TRP:HH2	1.71	0.55
3:D:902:LEU:CD2	3:D:902:LEU:H	2.14	0.55
5:F:366:ALA:HB3	5:F:367:MET:HE2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:57:TYR:O	1:L:140:MET:HB2	2.06	0.55
1:L:156:HIS:ND1	1:L:158:ILE:HG12	2.21	0.55
2:M:146:VAL:HG12	2:M:162:ILE:HG12	1.87	0.55
2:M:428:ARG:HE	2:M:449:ILE:CG2	2.19	0.55
2:M:572:ILE:HD11	2:M:701:THR:HB	1.86	0.55
2:M:876:VAL:HB	2:M:877:PRO:CD	2.34	0.55
2:M:922:PHE:CE2	2:M:964:LYS:HB2	2.40	0.55
2:M:963:LEU:O	2:M:967:PHE:HB2	2.06	0.55
3:N:1278:ASP:HB3	3:N:1321:ALA:N	2.22	0.55
3:N:186:VAL:HG13	3:N:187:LYS:N	2.20	0.55
3:N:645:PRO:O	3:N:648:MET:N	2.39	0.55
3:N:854:ALA:C	3:N:856:GLY:H	2.08	0.55
5:P:184:ARG:HH21	5:P:221:ILE:CG2	2.19	0.55
2:M:114:PHE:CE1	5:P:283:GLY:HA3	2.42	0.55
1:A:67:THR:HG22	2:C:627:ARG:CZ	2.37	0.55
1:B:86:VAL:HG12	1:B:124:ASN:CG	2.25	0.55
2:C:1058:ASP:OD2	2:C:1083:GLU:HB2	2.06	0.55
3:D:1191:PRO:HG3	3:D:1204:CYS:O	2.06	0.55
3:D:866:VAL:HG12	3:D:867:ARG:N	2.19	0.55
5:F:164:LYS:HA	5:F:171:LYS:NZ	2.21	0.55
1:K:79:ILE:O	1:K:83:LYS:HG3	2.07	0.55
2:M:170:PRO:HB3	2:M:172:ILE:HD11	1.87	0.55
2:M:745:ILE:HD13	2:M:745:ILE:H	1.71	0.55
3:N:1307:LYS:O	3:N:1309:ALA:N	2.37	0.55
3:N:209:ARG:HB3	3:N:396:VAL:O	2.07	0.55
3:N:669:ASN:HD21	3:N:671:LYS:HB2	1.71	0.55
3:N:426:LYS:HD3	5:P:134:LYS:HA	1.88	0.55
1:A:41:ARG:HG3	1:A:177:VAL:HB	1.88	0.55
1:A:99:LEU:HB2	1:A:142:VAL:HG23	1.87	0.55
2:C:1024:LYS:NZ	2:C:1024:LYS:HB2	2.21	0.55
2:C:516:ARG:HH11	2:C:521:PRO:HB3	1.68	0.55
3:D:1062:ARG:CG	3:D:1062:ARG:HH11	1.97	0.55
3:D:10:ILE:HG13	3:D:1434:TRP:CH2	2.41	0.55
4:E:25:LYS:HA	4:E:28:GLN:CD	2.25	0.55
2:M:265:ARG:H	2:M:289:THR:HG21	1.72	0.55
3:N:1115:THR:HG21	3:N:1151:ARG:HH21	1.71	0.55
3:N:214:GLU:HG2	3:N:215:TYR:CE1	2.41	0.55
3:N:675:ARG:HA	3:N:678:GLU:OE2	2.06	0.55
5:P:134:LYS:HG3	5:P:160:ASP:OD2	2.05	0.55
2:C:167:LYS:HD3	2:C:167:LYS:O	2.06	0.55
2:C:572:ILE:HD11	2:C:701:THR:HB	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:715:THR:HG22	2:C:716:LYS:H	1.72	0.55
2:C:683:ASN:ND2	2:C:872:ASN:HB2	2.22	0.55
3:D:1175:ILE:O	3:D:1179:GLU:HG2	2.06	0.55
3:D:1264:GLU:HG2	3:D:1266:ARG:NE	2.21	0.55
3:D:1314:LYS:HD3	3:D:1314:LYS:N	2.22	0.55
3:D:992:ILE:O	3:D:995:LEU:HB3	2.06	0.55
1:L:42:ARG:HH11	1:L:42:ARG:HG2	1.71	0.55
2:M:548:PRO:CG	2:M:842:ARG:NH2	2.68	0.55
2:M:880:MET:HE1	3:N:1034:GLN:HG2	1.88	0.55
3:N:133:ILE:HG21	3:N:454:ALA:CB	2.30	0.55
3:N:560:GLN:HA	3:N:560:GLN:NE2	2.21	0.55
3:N:678:GLU:HG3	3:N:679:ARG:HG3	1.89	0.55
2:C:421:GLU:OE1	2:C:421:GLU:O	2.25	0.55
3:D:129:PHE:H	3:D:129:PHE:HD1	1.54	0.55
3:D:138:LYS:H	3:D:138:LYS:HE3	1.72	0.55
3:D:400:VAL:HG13	3:D:442:ASN:O	2.05	0.55
3:D:401:TYR:N	3:D:402:PRO:HD3	2.21	0.55
2:C:1070:ILE:HD11	3:D:751:LEU:HD22	1.88	0.55
5:F:300:ASP:CG	5:F:301:ALA:H	2.09	0.55
1:L:143:ARG:HD3	1:L:158:ILE:HG21	1.88	0.55
2:M:1014:SER:HB3	2:M:1017:THR:HG23	1.88	0.55
2:M:18:LEU:CA	2:M:408:ARG:HH21	2.18	0.55
3:N:1435:LEU:HD23	3:N:1464:GLU:HB2	1.88	0.55
3:N:701:LEU:HD21	3:N:763:MET:HE3	1.87	0.55
3:N:837:GLY:O	3:N:864:VAL:HA	2.07	0.55
1:A:206:THR:HG22	1:A:209:GLU:N	2.18	0.55
1:A:219:ARG:CG	1:A:219:ARG:HH11	2.20	0.55
1:A:42:ARG:NH1	2:C:978:ARG:HA	2.21	0.55
2:C:911:GLU:O	2:C:915:LYS:HG2	2.06	0.55
2:C:860:HIS:HE1	2:C:977:GLY:HA2	1.71	0.55
3:D:1063:GLU:CG	3:D:1064:GLY:N	2.70	0.55
3:D:1364:HIS:ND1	3:D:1365:ASP:N	2.54	0.55
5:F:209:PHE:O	5:F:213:ILE:HG13	2.06	0.55
5:F:235:PHE:O	5:F:236:SER:C	2.44	0.55
1:L:223:THR:C	1:L:225:PHE:H	2.09	0.55
2:M:1102:LEU:O	3:N:5:VAL:HA	2.07	0.55
3:N:1155:VAL:HG12	3:N:1156:LEU:N	2.22	0.55
3:N:1192:LEU:HD11	3:N:1369:GLU:HG2	1.89	0.55
3:N:1209:LEU:HD23	3:N:1211:MET:SD	2.47	0.55
3:N:141:ILE:CG2	3:N:142:LEU:H	2.14	0.55
3:N:10:ILE:O	3:N:1454:GLY:HA2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:596:SER:C	3:N:598:ARG:H	2.09	0.55
3:N:654:LYS:O	3:N:657:LEU:HB3	2.07	0.55
5:P:317:LEU:HA	5:P:329:TYR:HD2	1.72	0.55
5:P:319:THR:HG23	5:P:320:PRO:HD2	1.89	0.55
1:A:24:VAL:HA	1:A:196:THR:HB	1.88	0.55
2:C:1052:MET:HG3	3:D:623:VAL:HG22	1.88	0.55
2:C:1096:ALA:HB1	3:D:514:LEU:HD21	1.89	0.55
3:D:633:VAL:C	3:D:635:PRO:HD3	2.27	0.55
3:D:72:VAL:CG1	3:D:73:CYS:H	2.20	0.55
1:L:111:ALA:CB	1:L:127:LEU:HB3	2.34	0.55
1:L:216:GLU:OE2	1:L:219:ARG:CZ	2.54	0.55
2:M:393:GLN:NE2	2:M:406:HIS:NE2	2.55	0.55
2:M:437:ARG:O	2:M:467:ILE:HD13	2.07	0.55
2:M:557:ARG:HG3	2:M:844:GLY:HA3	1.89	0.55
2:M:899:GLN:O	2:M:899:GLN:HG3	2.07	0.55
2:M:918:LEU:HD23	2:M:968:LEU:HA	1.89	0.55
2:M:958:THR:HG23	2:M:961:GLU:HB2	1.89	0.55
3:N:1472:ILE:HG22	3:N:1474:ALA:H	1.72	0.55
3:N:32:ILE:HG21	3:N:37:LEU:HA	1.89	0.55
3:N:382:GLU:HG2	3:N:383:GLY:H	1.68	0.55
3:N:914:LEU:HD23	3:N:914:LEU:O	2.06	0.55
3:N:988:ARG:O	3:N:992:ILE:HG13	2.06	0.55
5:P:276:ARG:NH1	5:P:276:ARG:HG3	2.20	0.55
1:B:77:GLU:HB2	3:D:872:ARG:NH2	2.22	0.55
2:C:1115:LEU:CD1	2:C:1115:LEU:H	2.11	0.55
2:C:418:LEU:HD22	2:C:418:LEU:N	2.22	0.55
2:C:878:SER:O	2:C:880:MET:HG3	2.07	0.55
3:D:152:LEU:HD23	3:D:152:LEU:N	2.21	0.55
3:D:423:ASP:CG	5:F:175:HIS:CE1	2.81	0.55
3:D:634:GLY:O	3:D:637:LEU:CB	2.55	0.55
2:C:1083:GLU:OE2	3:D:87:ARG:NH1	2.38	0.55
2:M:602:GLU:HA	2:M:648:ARG:HA	1.89	0.55
2:M:679:PHE:HZ	2:M:978:ARG:NH1	2.04	0.55
3:N:1365:ASP:HB3	3:N:1369:GLU:OE2	2.06	0.55
3:N:535:PHE:O	5:P:315:VAL:N	2.37	0.55
3:N:709:HIS:NE2	3:N:711:LEU:HD12	2.22	0.55
3:N:880:ILE:O	3:N:883:ALA:HB3	2.06	0.55
5:P:134:LYS:HE3	5:P:134:LYS:HA	1.89	0.55
1:A:212:ASN:O	1:A:215:VAL:HG22	2.06	0.55
1:B:101:LEU:HD11	1:B:113:ASP:HB2	1.88	0.55
2:C:585:GLU:HG2	2:C:665:PHE:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:862:PRO:HG2	2:C:925:TYR:OH	2.07	0.55
3:D:225:LEU:HD22	3:D:225:LEU:H	1.72	0.55
3:D:127:LEU:CD2	3:D:461:ILE:HD11	2.36	0.55
3:D:477:LEU:HD11	3:D:495:ARG:HD3	1.89	0.55
3:D:653:PHE:CZ	3:D:695:ILE:HD11	2.41	0.55
3:D:857:ILE:HG22	3:D:858:VAL:CG2	2.36	0.55
5:F:234:LYS:HD2	5:F:236:SER:CB	2.37	0.55
5:F:79:ASP:HB3	5:F:80:PRO:CD	2.30	0.55
1:L:45:LEU:HD21	1:L:177:VAL:HG23	1.89	0.55
2:M:756:VAL:O	2:M:789:SER:HB3	2.06	0.55
2:M:704:HIS:HB2	2:M:831:ARG:NH2	2.21	0.55
2:M:913:GLU:O	2:M:916:GLU:HB3	2.07	0.55
2:M:987:ILE:HG23	3:N:948:THR:CG2	2.34	0.55
3:N:786:ILE:CG2	3:N:1026:SER:HB2	2.37	0.55
3:N:1155:VAL:HG21	3:N:1183:ILE:HD11	1.89	0.55
3:N:1192:LEU:HD22	3:N:1345:GLU:OE2	2.07	0.55
3:N:1372:VAL:HG13	3:N:1375:MET:CE	2.37	0.55
3:N:465:LEU:O	3:N:468:LEU:HG	2.07	0.55
3:N:658:LEU:HD11	3:N:674:ARG:NH1	2.22	0.55
3:N:699:VAL:H	3:N:756:GLN:HE22	1.54	0.55
2:M:1043:TYR:CD2	3:N:763:MET:HG3	2.41	0.55
5:P:358:LEU:HD21	5:P:370:LYS:HZ2	1.70	0.55
2:C:1105:LYS:HB2	2:C:1107:ASN:HD22	1.72	0.54
2:C:487:THR:HG22	2:C:488:ALA:N	2.22	0.54
3:D:218:LYS:CD	3:D:372:ASP:OD1	2.54	0.54
3:D:728:LEU:HD11	3:D:732:VAL:HG21	1.88	0.54
2:M:197:LEU:HD13	2:M:207:LEU:HD11	1.87	0.54
2:M:376:ARG:HA	2:M:376:ARG:HE	1.73	0.54
2:M:51:THR:HG22	2:M:51:THR:O	2.06	0.54
2:M:524:VAL:HG22	2:M:525:SER:N	2.23	0.54
1:K:181:VAL:HG12	2:M:938:LYS:HD2	1.89	0.54
2:M:940:GLU:HG3	2:M:973:VAL:HG21	1.88	0.54
3:N:1393:GLN:HB2	3:N:1398:TRP:CE2	2.41	0.54
3:N:179:VAL:HG21	3:N:217:LYS:CE	2.37	0.54
3:N:231:VAL:CA	3:N:378:ILE:HG12	2.37	0.54
5:P:101:GLU:O	5:P:104:ARG:HB3	2.07	0.54
5:P:156:VAL:HG13	5:P:157:GLU:N	2.21	0.54
1:A:101:LEU:HD11	1:A:109:VAL:CG1	2.37	0.54
1:A:144:VAL:O	1:A:145:ASP:OD1	2.26	0.54
3:D:1310:ARG:CG	3:D:1327:ARG:HB3	2.33	0.54
3:D:945:SER:CB	3:D:947:ILE:HG23	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:54:LEU:HA	4:E:58:PRO:CD	2.37	0.54
1:L:222:LEU:O	1:L:225:PHE:HD1	1.89	0.54
2:M:111:ASP:HB3	2:M:112:GLU:OE2	2.08	0.54
2:M:118:ILE:O	2:M:118:ILE:HG13	2.07	0.54
2:M:876:VAL:O	2:M:877:PRO:C	2.44	0.54
3:N:1486:VAL:CG1	4:O:73:LEU:HD22	2.37	0.54
3:N:422:ALA:CB	3:N:427:VAL:HG22	2.33	0.54
3:N:653:PHE:CE2	3:N:695:ILE:HD12	2.43	0.54
3:N:703:ASN:ND2	3:N:713:ILE:HG12	2.22	0.54
3:N:840:LYS:NZ	3:N:840:LYS:HB2	2.22	0.54
3:N:95:LEU:HD12	3:N:515:GLU:CA	2.38	0.54
5:P:138:SER:O	5:P:141:VAL:HG23	2.06	0.54
2:M:370:ALA:CB	5:P:280:GLN:HG3	2.37	0.54
5:P:411:HIS:HA	5:P:414:ARG:HH21	1.72	0.54
1:B:156:HIS:CD2	1:B:156:HIS:H	2.26	0.54
2:C:1007:ALA:O	2:C:1027:PHE:CD2	2.61	0.54
2:C:41:ASN:HA	2:C:45:GLN:HB3	1.89	0.54
2:C:939:ARG:HA	2:C:939:ARG:HE	1.72	0.54
3:D:1196:THR:O	3:D:1197:ARG:O	2.26	0.54
3:D:728:LEU:HD22	3:D:745:MET:HE2	1.87	0.54
3:D:85:VAL:O	3:D:89:ARG:HD2	2.06	0.54
3:D:974:ILE:HD13	3:D:991:GLN:HB3	1.90	0.54
5:F:148:LYS:HB2	5:F:148:LYS:NZ	2.23	0.54
5:F:91:VAL:N	5:F:92:PRO:HD3	2.22	0.54
1:K:176:ARG:NH1	2:M:863:ASP:HB2	2.22	0.54
2:M:1060:ILE:CG1	2:M:1083:GLU:HG3	2.31	0.54
2:M:44:ILE:HD12	2:M:44:ILE:H	1.71	0.54
4:O:41:GLU:O	4:O:43:GLU:N	2.40	0.54
5:P:278:LEU:CB	5:P:286:PRO:HG2	2.37	0.54
1:B:150:TYR:H	3:D:855:HIS:CE1	2.25	0.54
2:C:174:LEU:HD23	2:C:184:MET:HG3	1.89	0.54
2:C:773:LEU:O	2:C:777:ILE:HG13	2.08	0.54
2:C:805:ARG:O	2:C:806:LEU:HD23	2.08	0.54
3:D:1047:LYS:HB3	3:D:1048:PRO:CD	2.37	0.54
3:D:1307:LYS:N	3:D:1307:LYS:HD3	2.23	0.54
3:D:1393:GLN:HB2	3:D:1398:TRP:HE1	1.72	0.54
3:D:99:ALA:O	3:D:514:LEU:HB2	2.07	0.54
5:F:396:ARG:HA	5:F:399:GLN:HB2	1.89	0.54
1:L:102:LYS:HA	1:L:138:LEU:O	2.08	0.54
2:M:1035:MET:HA	2:M:1038:TRP:CE3	2.42	0.54
2:M:501:THR:HG22	2:M:513:VAL:HG12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:578:VAL:O	2:M:900:ARG:HB3	2.07	0.54
2:M:599:GLU:HA	2:M:651:LYS:HA	1.88	0.54
3:N:1466:VAL:O	3:N:1467:ILE:C	2.45	0.54
3:N:399:ARG:HB2	3:N:402:PRO:HG3	1.87	0.54
3:N:423:ASP:OD2	5:P:178:ARG:HB2	2.07	0.54
3:N:728:LEU:HD22	3:N:745:MET:SD	2.47	0.54
5:P:196:VAL:O	5:P:200:LYS:HG3	2.06	0.54
1:A:144:VAL:CG1	1:A:145:ASP:N	2.71	0.54
2:C:413:LEU:H	2:C:413:LEU:CD1	2.00	0.54
2:C:484:VAL:HG12	2:C:484:VAL:O	2.07	0.54
3:D:478:LEU:HD22	3:D:1388:ARG:NH2	2.23	0.54
3:D:586:ARG:HH12	3:D:1444:THR:HG21	1.72	0.54
3:D:186:VAL:HG21	3:D:213:VAL:H	1.72	0.54
3:D:650:LEU:HD22	3:D:688:TRP:HH2	1.71	0.54
3:D:826:PRO:O	3:D:836:VAL:CG1	2.55	0.54
3:D:949:ILE:HA	3:D:953:ASP:OD1	2.07	0.54
5:F:278:LEU:HD13	5:F:286:PRO:HB3	1.90	0.54
5:F:368:VAL:HG21	5:F:389:PHE:CE1	2.42	0.54
1:L:133:GLU:HG3	1:L:134:GLU:H	1.73	0.54
1:L:62:LEU:CD1	1:L:63:HIS:H	2.20	0.54
2:M:265:ARG:CG	2:M:288:ARG:HG3	2.32	0.54
2:M:54:ILE:HG22	2:M:66:LEU:HB3	1.88	0.54
2:M:841:ASN:ND2	2:M:843:HIS:H	2.06	0.54
2:M:521:PRO:HG3	3:N:1068:LEU:CD2	2.36	0.54
3:N:481:MET:HE1	3:N:1389:LEU:HD21	1.89	0.54
3:N:373:PRO:HB2	3:N:374:GLU:OE2	2.08	0.54
3:N:571:LYS:NZ	3:N:571:LYS:HB2	2.23	0.54
3:N:625:TYR:CB	3:N:749:VAL:HG23	2.37	0.54
1:A:36:LEU:O	1:A:39:PRO:HD2	2.08	0.54
2:C:1034:GLU:HB3	3:D:618:LEU:O	2.08	0.54
2:C:250:ARG:HB3	2:C:253:ALA:HB2	1.88	0.54
2:C:200:LEU:HD22	2:C:300:ASP:OD1	2.07	0.54
2:C:498:GLN:O	2:C:501:THR:HG23	2.07	0.54
2:C:520:GLU:O	2:C:522:VAL:HG23	2.08	0.54
3:D:245:LEU:HB3	3:D:366:LYS:HE2	1.88	0.54
1:K:89:PHE:CZ	1:K:97:VAL:HG23	2.43	0.54
2:M:594:ALA:HB3	2:M:596:TYR:CE1	2.43	0.54
3:N:1252:ILE:HG22	3:N:1253:THR:N	2.22	0.54
2:M:848:VAL:CG1	3:N:632:VAL:HG22	2.36	0.54
3:N:912:LYS:HB3	3:N:912:LYS:HZ3	1.72	0.54
2:M:370:ALA:HB2	5:P:280:GLN:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:94:LEU:HB2	5:P:98:GLU:HG3	1.89	0.54
1:B:34:VAL:O	1:B:36:LEU:N	2.40	0.54
2:C:405:ARG:HH12	2:C:563:ASN:ND2	2.06	0.54
2:C:586:ARG:HD3	2:C:590:ASP:OD2	2.08	0.54
2:C:599:GLU:HG2	2:C:600:ASP:H	1.72	0.54
2:C:837:ASP:OD1	2:C:996:LYS:HE3	2.08	0.54
3:D:1150:ALA:C	3:D:1151:ARG:HG2	2.28	0.54
3:D:1441:GLN:CA	3:D:1441:GLN:HE21	2.19	0.54
3:D:445:ARG:H	3:D:445:ARG:CD	2.20	0.54
3:D:452:ILE:HG23	3:D:452:ILE:O	2.08	0.54
3:D:570:GLU:OE2	5:F:214:GLN:HG3	2.07	0.54
3:D:573:MET:SD	5:F:210:LEU:HB3	2.48	0.54
3:D:670:VAL:O	3:D:673:ALA:N	2.41	0.54
1:L:32:PHE:O	1:L:33:GLY:C	2.44	0.54
2:M:1016:ILE:HD13	2:M:1016:ILE:N	2.04	0.54
2:M:1094:ALA:HB2	3:N:520:LEU:CD1	2.38	0.54
2:M:154:ARG:NH1	2:M:157:ARG:H	2.06	0.54
2:M:172:ILE:HD12	2:M:172:ILE:N	2.10	0.54
2:M:193:LEU:O	2:M:193:LEU:HD13	2.08	0.54
2:M:501:THR:HB	2:M:513:VAL:HG11	1.89	0.54
2:M:564:MET:CE	2:M:846:LYS:HD2	2.38	0.54
1:K:41:ARG:NH2	2:M:860:HIS:ND1	2.55	0.54
3:N:493:ARG:HE	3:N:1389:LEU:CD2	2.21	0.54
3:N:892:ASP:HB3	3:N:895:VAL:HB	1.90	0.54
4:O:40:LEU:HB2	4:O:45:ARG:CZ	2.38	0.54
2:C:1014:SER:OG	2:C:1016:ILE:HG12	2.08	0.54
2:C:1086:ARG:NH1	3:D:88:TYR:CE1	2.76	0.54
2:C:838:LYS:HB2	2:C:997:LEU:HD12	1.88	0.54
3:D:996:TRP:CD1	3:D:1056:PRO:HG2	2.43	0.54
3:D:1065:LEU:CD1	3:D:1069:GLU:HB3	2.37	0.54
3:D:1066:THR:OG1	3:D:1069:GLU:HB2	2.07	0.54
3:D:1107:VAL:HG11	3:D:1217:ILE:HA	1.87	0.54
3:D:1484:THR:HG22	3:D:1485:GLN:N	2.23	0.54
3:D:473:LEU:O	3:D:476:GLU:HB3	2.08	0.54
3:D:646:LYS:CG	3:D:647:ARG:H	2.20	0.54
1:K:13:VAL:CG1	1:K:14:ARG:H	2.21	0.54
3:N:1436:SER:OG	3:N:1464:GLU:HB3	2.08	0.54
3:N:240:GLU:HG3	3:N:243:ALA:HB3	1.90	0.54
3:N:388:HIS:HB2	5:P:94:LEU:HD21	1.89	0.54
3:N:470:LEU:HD22	3:N:499:VAL:HG13	1.89	0.54
5:P:222:ARG:O	5:P:225:GLU:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:138:LEU:HD23	1:B:138:LEU:C	2.28	0.54
2:C:355:VAL:HG23	2:C:372:LEU:O	2.08	0.54
2:C:64:LEU:HD22	2:C:359:MET:CE	2.38	0.54
2:C:691:SER:HB3	2:C:868:ASP:HA	1.88	0.54
2:C:944:LEU:HD11	2:C:963:LEU:HD21	1.90	0.54
2:C:939:ARG:HD3	2:C:982:PRO:CG	2.38	0.54
3:D:1358:ALA:C	3:D:1359:GLN:HG2	2.28	0.54
3:D:1365:ASP:O	3:D:1369:GLU:HG3	2.07	0.54
3:D:1437:ALA:O	3:D:1446:VAL:HG21	2.08	0.54
2:C:1052:MET:HE3	3:D:623:VAL:HG11	1.89	0.54
3:D:702:LEU:HA	3:D:746:ALA:O	2.08	0.54
3:D:766:ALA:HB1	4:E:2:ALA:HB2	1.89	0.54
1:K:64:GLU:HB2	1:K:165:ILE:HG21	1.90	0.54
2:M:1101:THR:OG1	2:M:1109:VAL:O	2.26	0.54
2:M:44:ILE:HD11	2:M:340:MET:HE3	1.88	0.54
2:M:573:ARG:HG3	2:M:698:ASP:O	2.07	0.54
2:M:959:PRO:O	2:M:963:LEU:HG	2.08	0.54
3:N:1213:ARG:CB	3:N:1214:PRO:HD2	2.28	0.54
3:N:137:PRO:HG2	3:N:453:ASP:CB	2.38	0.54
5:P:371:LEU:HD23	5:P:375:LEU:HD13	1.89	0.54
1:B:176:ARG:HH22	3:D:884:ARG:HD3	1.73	0.54
1:B:184:THR:O	1:B:190:THR:O	2.26	0.54
2:C:615:TYR:HD1	2:C:619:ARG:NH2	2.05	0.54
2:C:626:ARG:HB3	2:C:629:TYR:CD1	2.43	0.54
3:D:367:ILE:HG23	3:D:368:VAL:N	2.23	0.54
3:D:423:ASP:O	3:D:425:GLY:N	2.41	0.54
3:D:133:ILE:CG2	3:D:454:ALA:HB1	2.38	0.54
3:D:528:VAL:CG2	3:D:536:ALA:HB3	2.29	0.54
5:F:113:ILE:HG23	5:F:127:ILE:HG21	1.89	0.54
2:M:95:TYR:CZ	2:M:114:PHE:HB3	2.43	0.54
2:M:129:ILE:CG2	2:M:130:ASN:H	2.10	0.54
2:M:181:VAL:HG12	2:M:182:VAL:N	2.23	0.54
2:M:480:THR:HG22	2:M:482:GLU:N	2.23	0.54
2:M:757:GLY:HA2	2:M:789:SER:CB	2.38	0.54
1:K:176:ARG:HD3	2:M:864:GLY:HA3	1.88	0.54
2:M:578:VAL:HA	2:M:900:ARG:HD3	1.88	0.54
2:M:97:ARG:HH21	2:M:109:LYS:HZ2	1.56	0.54
2:M:878:SER:HB3	3:N:1029:ARG:HD3	1.90	0.54
3:N:1068:LEU:CD2	3:N:1072:ILE:HD13	2.37	0.54
3:N:1135:ARG:CB	3:N:1135:ARG:HH11	2.21	0.54
3:N:130:SER:O	3:N:131:LYS:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1378:TYR:CE2	3:N:1394:VAL:HG22	2.43	0.54
3:N:1496:GLU:O	3:N:1500:LYS:HG3	2.08	0.54
3:N:890:VAL:O	3:N:892:ASP:N	2.41	0.54
3:N:920:LEU:H	3:N:920:LEU:HD12	1.72	0.54
5:P:274:THR:O	5:P:278:LEU:HG	2.08	0.54
1:A:17:GLY:C	1:A:19:GLU:H	2.11	0.53
2:C:204:GLN:OE1	2:C:222:MET:HA	2.08	0.53
2:C:691:SER:CB	2:C:868:ASP:HA	2.39	0.53
2:C:725:ASP:O	2:C:727:PRO:HD3	2.08	0.53
3:D:1363:LEU:HD12	3:D:1363:LEU:C	2.28	0.53
3:D:245:LEU:HD12	3:D:366:LYS:HE2	1.90	0.53
2:C:1030:GLN:HE22	3:D:628:ARG:HE	1.56	0.53
3:D:697:GLY:HA3	4:E:59:ASN:OD1	2.08	0.53
4:E:22:VAL:HG12	4:E:68:LEU:HD22	1.91	0.53
2:M:3:ILE:O	2:M:3:ILE:HG22	2.08	0.53
2:M:474:VAL:HG12	2:M:530:GLU:O	2.08	0.53
2:M:603:VAL:HG21	2:M:643:VAL:HG11	1.89	0.53
3:N:122:GLU:OE1	3:N:122:GLU:HA	2.06	0.53
3:N:131:LYS:CD	3:N:568:ARG:HG2	2.37	0.53
1:B:182:GLU:HG3	1:B:194:LYS:HD3	1.91	0.53
2:C:145:GLY:H	2:C:163:ILE:HG23	1.72	0.53
2:C:205:GLU:HG3	2:C:206:THR:N	2.24	0.53
2:C:439:CYS:HB2	2:C:541:SER:CB	2.37	0.53
2:C:768:THR:O	2:C:772:ARG:N	2.41	0.53
2:C:876:VAL:HG22	2:C:884:GLN:NE2	2.23	0.53
3:D:1020:LEU:HD12	3:D:1023:MET:HE1	1.90	0.53
3:D:241:ILE:HA	3:D:244:GLU:CB	2.38	0.53
2:M:823:VAL:O	2:M:823:VAL:HG12	2.08	0.53
3:N:149:LYS:N	3:N:149:LYS:HD3	2.23	0.53
3:N:52:PRO:HG2	3:N:81:THR:O	2.08	0.53
3:N:908:LYS:HB3	3:N:1027:GLY:CA	2.34	0.53
3:N:916:TYR:O	3:N:920:LEU:HD13	2.09	0.53
5:P:321:ILE:HG21	5:P:332:PHE:CZ	2.44	0.53
5:P:389:PHE:HD2	5:P:397:ILE:HD11	1.73	0.53
1:B:175:ARG:HH12	1:B:202:ASP:HB3	1.71	0.53
2:C:466:PHE:HB3	2:C:487:THR:HG23	1.91	0.53
2:C:95:TYR:HD2	2:C:114:PHE:HB3	1.69	0.53
3:D:1120:VAL:HB	3:D:1144:LEU:HD21	1.91	0.53
3:D:601:ARG:NH2	3:D:611:GLN:HB2	2.23	0.53
3:D:625:TYR:CD1	3:D:625:TYR:N	2.76	0.53
5:F:156:VAL:HG23	5:F:157:GLU:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:370:ALA:HB2	5:P:280:GLN:HA	1.90	0.53
3:N:783:ARG:NH1	3:N:1029:ARG:NH2	2.56	0.53
3:N:1094:LEU:O	3:N:1098:LEU:HD13	2.07	0.53
3:N:1497:GLU:O	3:N:1501:GLU:HG3	2.07	0.53
3:N:245:LEU:HB2	3:N:366:LYS:HZ1	1.74	0.53
3:N:56:TYR:CE1	3:N:66:GLN:HG3	2.42	0.53
3:N:871:LYS:HE3	3:N:873:LEU:HD21	1.89	0.53
1:A:219:ARG:HG3	1:A:219:ARG:HH11	1.73	0.53
1:B:143:ARG:NH1	1:B:158:ILE:HG23	2.24	0.53
2:C:640:ARG:O	2:C:656:ALA:HB1	2.09	0.53
3:D:1076:GLY:HA2	3:D:1079:LYS:HD3	1.90	0.53
3:D:169:TYR:N	3:D:170:PRO:HD3	2.23	0.53
3:D:220:ARG:HB3	3:D:220:ARG:NH2	2.23	0.53
3:D:657:LEU:HD22	3:D:691:LEU:HD13	1.89	0.53
3:D:898:GLU:HB3	3:D:921:ARG:NH2	2.24	0.53
1:K:206:THR:H	1:K:209:GLU:HB2	1.74	0.53
2:M:146:VAL:HG11	2:M:162:ILE:HG12	1.90	0.53
2:M:207:LEU:HD13	2:M:221:LEU:HD11	1.90	0.53
2:M:332:ARG:CZ	2:M:464:LEU:HD21	2.38	0.53
2:M:503:LEU:HD12	2:M:505:GLY:O	2.08	0.53
2:M:762:LYS:HG2	2:M:763:GLY:H	1.73	0.53
3:N:32:ILE:CD1	3:N:527:MET:HG2	2.38	0.53
5:P:94:LEU:HB3	5:P:98:GLU:H	1.73	0.53
1:A:198:ARG:HH21	2:C:934:PHE:HE1	1.54	0.53
2:C:627:ARG:CG	2:C:628:PHE:H	2.06	0.53
2:C:737:LEU:O	2:C:738:ASP:C	2.47	0.53
2:C:988:VAL:HG12	3:D:948:THR:OG1	2.08	0.53
3:D:1155:VAL:CG1	3:D:1177:ALA:HB1	2.38	0.53
3:D:1208:ASP:OD1	3:D:1209:LEU:O	2.27	0.53
3:D:1380:GLU:HA	3:D:1392:GLY:HA2	1.89	0.53
3:D:1435:LEU:HD23	3:D:1464:GLU:O	2.09	0.53
3:D:573:MET:HG2	5:F:210:LEU:HD13	1.90	0.53
3:D:582:LEU:HA	3:D:603:LEU:HD12	1.90	0.53
3:D:957:PRO:HG2	3:D:1007:VAL:HA	1.91	0.53
2:M:167:LYS:HD3	2:M:167:LYS:C	2.29	0.53
2:M:598:GLU:O	2:M:599:GLU:HB2	2.08	0.53
2:M:597:ALA:C	2:M:652:GLY:HA2	2.29	0.53
2:M:760:SER:C	2:M:785:VAL:HG13	2.28	0.53
2:M:780:GLU:O	2:M:782:ALA:N	2.41	0.53
2:M:966:LEU:HD11	2:M:986:PRO:CG	2.36	0.53
3:N:1115:THR:HG22	3:N:1115:THR:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1252:ILE:HG22	3:N:1253:THR:H	1.74	0.53
3:N:1237:THR:HA	3:N:1255:GLY:HA3	1.90	0.53
3:N:10:ILE:HG22	3:N:1451:ALA:HA	1.90	0.53
3:N:191:LEU:HD22	3:N:195:VAL:HG21	1.90	0.53
3:N:219:GLU:OE2	3:N:219:GLU:HA	2.08	0.53
3:N:371:ILE:HD12	3:N:372:ASP:N	2.24	0.53
3:N:39:PRO:HB3	3:N:46:ASP:HA	1.89	0.53
3:N:225:LEU:CD2	3:N:440:VAL:HG21	2.39	0.53
3:N:958:GLU:OE2	3:N:961:LYS:HE2	2.08	0.53
5:P:166:LEU:HB3	5:P:170:HIS:HB2	1.91	0.53
3:N:533:GLY:HA3	5:P:309:LYS:HB3	1.91	0.53
5:P:351:SER:O	5:P:355:GLU:HB2	2.08	0.53
1:A:94:LEU:C	1:A:96:THR:N	2.62	0.53
2:C:368:THR:CB	2:C:369:PRO:HD3	2.30	0.53
2:C:612:VAL:HA	2:C:621:VAL:O	2.08	0.53
1:A:72:LYS:HZ1	2:C:644:VAL:HA	1.73	0.53
2:C:983:ILE:HG21	2:C:987:ILE:HD11	1.91	0.53
3:D:110:SER:O	3:D:113:GLY:N	2.34	0.53
3:D:1153:VAL:HG12	3:D:1155:VAL:HG23	1.90	0.53
3:D:133:ILE:HD12	3:D:133:ILE:H	1.72	0.53
3:D:178:LEU:C	3:D:180:LYS:H	2.12	0.53
3:D:212:ARG:HD2	3:D:445:ARG:NH2	2.15	0.53
3:D:459:GLU:O	3:D:463:GLN:HG2	2.09	0.53
3:D:464:LEU:O	3:D:468:LEU:HG	2.09	0.53
3:D:52:PRO:HG3	3:D:78:VAL:CG1	2.38	0.53
3:D:916:TYR:CD2	3:D:916:TYR:O	2.62	0.53
4:E:47:LYS:CA	4:E:54:LEU:HB3	2.38	0.53
2:M:1052:MET:CE	3:N:748:HIS:HB3	2.39	0.53
2:M:42:VAL:HG12	2:M:43:GLY:H	1.72	0.53
3:N:176:ASP:HB3	3:N:219:GLU:HG2	1.89	0.53
3:N:59:ALA:CB	3:N:78:VAL:HG21	2.39	0.53
3:N:84:ILE:O	3:N:87:ARG:HG2	2.09	0.53
3:N:925:GLU:OE1	4:O:7:ASP:OD2	2.27	0.53
1:A:157:GLY:HA2	1:A:166:PRO:HG2	1.89	0.53
1:B:83:LYS:NZ	1:B:168:ASP:OD2	2.26	0.53
2:C:364:GLU:O	2:C:367:LEU:HD22	2.08	0.53
2:C:461:VAL:HG13	2:C:465:GLY:CA	2.38	0.53
2:C:549:PHE:O	2:C:551:GLU:N	2.42	0.53
2:C:919:ALA:CB	2:C:968:LEU:HD21	2.34	0.53
3:D:41:ARG:HG3	3:D:42:ASP:H	1.73	0.53
5:F:164:LYS:HB2	5:F:171:LYS:HZ1	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:111:ALA:HB3	1:K:127:LEU:HB3	1.90	0.53
1:L:71:VAL:HG22	1:L:132:LEU:HG	1.90	0.53
1:K:25:LEU:HD22	1:L:225:PHE:CE2	2.43	0.53
2:M:52:PHE:CD2	2:M:68:PHE:HB2	2.44	0.53
2:M:547:ILE:HG22	2:M:547:ILE:O	2.08	0.53
3:N:701:LEU:O	3:N:702:LEU:HD12	2.09	0.53
3:N:916:TYR:CZ	3:N:920:LEU:HD11	2.44	0.53
3:N:1481:VAL:HG11	4:O:18:ARG:HA	1.91	0.53
5:P:105:LYS:HZ3	5:P:105:LYS:HB3	1.73	0.53
1:A:132:LEU:HD21	1:A:138:LEU:HB3	1.90	0.53
1:A:161:ARG:CG	1:A:161:ARG:HH11	2.21	0.53
1:A:92:PRO:O	1:A:94:LEU:N	2.41	0.53
2:C:226:VAL:HG13	2:C:227:PHE:N	2.24	0.53
2:C:468:ARG:HD3	2:C:485:TYR:O	2.09	0.53
3:D:1273:VAL:HG21	3:D:1305:LEU:HD21	1.90	0.53
3:D:389:GLU:OE1	3:D:389:GLU:N	2.42	0.53
3:D:629:SER:O	3:D:744:GLN:CB	2.56	0.53
3:D:892:ASP:HB3	3:D:895:VAL:CG2	2.39	0.53
3:D:930:LEU:O	3:D:934:LEU:HG	2.09	0.53
2:M:385:PHE:CD1	2:M:389:SER:HB2	2.44	0.53
3:N:1170:ASP:C	3:N:1172:HIS:N	2.63	0.53
3:N:14:SER:O	3:N:17:LYS:N	2.41	0.53
3:N:18:ILE:HG21	3:N:516:ALA:O	2.09	0.53
3:N:210:ARG:CD	3:N:398:ALA:HB3	2.34	0.53
3:N:528:VAL:CG1	3:N:529:GLN:N	2.72	0.53
3:N:798:GLU:OE1	3:N:826:PRO:HB3	2.08	0.53
4:O:40:LEU:HB2	4:O:45:ARG:NH1	2.24	0.53
1:A:93:SER:C	1:A:94:LEU:HD12	2.29	0.53
2:C:12:VAL:HG13	2:C:13:ILE:N	2.24	0.53
2:C:22:GLN:NE2	2:C:336:VAL:CG2	2.71	0.53
2:C:358:ARG:HH22	2:C:374:ASN:CG	2.12	0.53
2:C:923:GLU:O	2:C:927:GLY:N	2.38	0.53
3:D:1304:LYS:H	3:D:1304:LYS:CD	1.93	0.53
3:D:1357:ARG:C	3:D:1359:GLN:H	2.13	0.53
3:D:1497:GLU:O	3:D:1501:GLU:HG3	2.09	0.53
3:D:40:GLU:CG	3:D:41:ARG:H	2.22	0.53
5:F:154:LYS:HG3	5:F:158:GLU:OE2	2.09	0.53
1:K:127:LEU:HD12	1:K:128:HIS:H	1.73	0.53
2:M:1033:GLY:O	2:M:1037:VAL:HG23	2.09	0.53
2:M:44:ILE:HD11	2:M:340:MET:CE	2.38	0.53
6:M:1120:STD:C31	3:N:1086:LEU:HB2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:212:ARG:HB2	3:N:445:ARG:NH2	2.24	0.53
3:N:386:HIS:O	5:P:96:LEU:HD12	2.08	0.53
3:N:400:VAL:C	3:N:402:PRO:HD3	2.29	0.53
3:N:40:GLU:HG3	3:N:41:ARG:HG2	1.90	0.53
3:N:669:ASN:H	3:N:672:ALA:HB2	1.74	0.53
3:N:785:ILE:HG22	3:N:789:LEU:HD12	1.91	0.53
3:N:573:MET:HE2	5:P:214:GLN:HG3	1.90	0.53
5:P:316:SER:HG	5:P:318:GLU:HG3	1.70	0.53
5:P:386:VAL:HA	5:P:394:ARG:HG3	1.91	0.53
1:A:94:LEU:HD21	1:A:119:ASP:HB2	1.91	0.53
2:C:204:GLN:HE21	2:C:228:ALA:HB2	1.73	0.53
2:C:426:ASP:HA	2:C:429:ASP:OD2	2.08	0.53
2:C:895:TYR:CD2	2:C:896:PHE:CD1	2.97	0.53
3:D:502:PHE:CE2	3:D:509:PRO:HB3	2.44	0.53
2:C:1102:LEU:HD22	3:D:9:ARG:HD3	1.90	0.53
5:F:371:LEU:HD22	5:F:375:LEU:HD22	1.91	0.53
1:K:42:ARG:HH12	2:M:857:ASP:CB	2.21	0.53
2:M:383:ARG:HH11	2:M:383:ARG:HB2	1.73	0.53
2:M:534:VAL:H	2:M:538:GLN:HE22	1.57	0.53
2:M:547:ILE:O	2:M:548:PRO:C	2.47	0.53
2:M:714:ASP:HB2	2:M:818:GLY:O	2.08	0.53
2:M:904:PRO:HD2	2:M:908:GLY:HA2	1.91	0.53
3:N:1395:LEU:C	3:N:1395:LEU:HD13	2.29	0.53
3:N:998:GLU:O	3:N:1002:LYS:HG3	2.08	0.53
4:O:22:VAL:HG12	4:O:23:VAL:N	2.24	0.53
5:P:365:GLU:HA	5:P:368:VAL:CG2	2.39	0.53
1:A:20:TYR:CD2	1:A:21:GLY:N	2.72	0.52
1:A:9:PRO:HB3	1:A:25:LEU:CD2	2.39	0.52
2:C:424:GLY:O	2:C:427:VAL:N	2.40	0.52
2:C:679:PHE:CD1	2:C:870:ILE:HD13	2.44	0.52
2:C:799:ILE:HD13	2:C:799:ILE:O	2.09	0.52
2:C:947:ALA:O	2:C:953:VAL:HG22	2.09	0.52
3:D:1064:GLY:O	3:D:1065:LEU:C	2.47	0.52
3:D:1412:LYS:O	3:D:1414:PRO:HD3	2.09	0.52
3:D:433:GLY:H	3:D:449:SER:N	2.07	0.52
3:D:654:LYS:CB	3:D:655:PRO:HD3	2.30	0.52
5:F:416:ARG:NH2	5:F:419:ARG:CG	2.72	0.52
1:K:41:ARG:HG3	1:K:41:ARG:HH11	1.74	0.52
1:L:206:THR:CG2	1:L:209:GLU:H	2.21	0.52
1:L:38:ASN:CB	1:L:39:PRO:HD3	2.40	0.52
2:M:1005:MET:SD	3:N:648:MET:HG3	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:183:SER:CB	2:M:190:LYS:HG2	2.23	0.52
2:M:549:PHE:HE2	2:M:887:GLU:HA	1.74	0.52
3:N:1311:LEU:N	3:N:1311:LEU:HD23	2.23	0.52
3:N:1458:GLU:O	3:N:1460:ILE:HG13	2.08	0.52
3:N:702:LEU:HB3	3:N:745:MET:HE2	1.91	0.52
3:N:806:PHE:HA	3:N:809:PRO:HD2	1.91	0.52
3:N:804:LEU:O	3:N:831:GLY:HA2	2.09	0.52
1:A:100:LEU:HD13	1:A:115:LEU:HD11	1.90	0.52
1:A:205:VAL:HG23	1:A:206:THR:N	2.24	0.52
2:C:341:THR:O	2:C:344:PHE:HB3	2.10	0.52
2:C:682:TYR:HB3	2:C:689:VAL:CG1	2.39	0.52
2:C:723:THR:OG1	2:C:724:ARG:N	2.42	0.52
2:C:910:LYS:HB3	2:C:912:PRO:HD2	1.90	0.52
3:D:9:ARG:HH12	3:D:11:ALA:HB2	1.72	0.52
3:D:1232:PRO:O	3:D:1233:GLY:C	2.47	0.52
3:D:615:ARG:O	3:D:619:LEU:CB	2.58	0.52
3:D:630:VAL:O	3:D:726:ILE:HG13	2.09	0.52
3:D:796:ARG:O	3:D:797:LYS:HG3	2.09	0.52
2:M:367:LEU:HD12	2:M:367:LEU:O	2.08	0.52
2:M:863:ASP:OD2	2:M:865:THR:HG22	2.10	0.52
3:N:1215:VAL:HG22	3:N:1216:SER:N	2.24	0.52
3:N:1267:ARG:CZ	3:N:1271:LYS:HG3	2.40	0.52
3:N:1377:LYS:HE2	3:N:1394:VAL:HG22	1.91	0.52
3:N:148:GLU:CB	3:N:151:GLN:HB2	2.23	0.52
3:N:212:ARG:HB3	3:N:394:LEU:CD1	2.38	0.52
3:N:245:LEU:HD22	3:N:246:PRO:CD	2.33	0.52
3:N:558:LEU:HD13	5:P:145:PRO:CB	2.39	0.52
2:M:1074:GLU:HA	4:O:31:LEU:HD21	1.91	0.52
1:A:27:PRO:CG	1:A:186:LEU:HD22	2.35	0.52
1:B:20:TYR:OH	1:B:198:ARG:HD2	2.09	0.52
2:C:460:ARG:CD	2:C:485:TYR:CE2	2.86	0.52
2:C:872:ASN:OD1	2:C:873:PRO:N	2.42	0.52
3:D:1115:THR:HB	3:D:1151:ARG:NH2	2.23	0.52
3:D:1265:ALA:O	3:D:1266:ARG:HG3	2.09	0.52
3:D:128:TYR:HB3	3:D:129:PHE:CD1	2.45	0.52
3:D:646:LYS:HG3	3:D:647:ARG:N	2.23	0.52
3:D:728:LEU:HD11	3:D:732:VAL:CG2	2.40	0.52
3:D:765:SER:C	3:D:767:HIS:H	2.12	0.52
1:L:57:TYR:HE1	1:L:163:ASN:HB2	1.74	0.52
1:L:44:LEU:CD1	1:L:199:ILE:HD11	2.38	0.52
2:M:998:TYR:HE2	2:M:1000:MET:SD	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:172:ILE:HA	2:M:185:LYS:O	2.10	0.52
2:M:238:LEU:O	2:M:238:LEU:HD23	2.09	0.52
2:M:61:LYS:HD3	2:M:61:LYS:O	2.08	0.52
2:M:675:ALA:HB2	2:M:867:VAL:HG11	1.91	0.52
2:M:689:VAL:O	2:M:869:VAL:HG23	2.09	0.52
3:N:175:VAL:HG12	3:N:176:ASP:OD1	2.09	0.52
3:N:604:THR:C	3:N:606:ILE:H	2.12	0.52
3:N:736:PHE:O	3:N:738:ALA:N	2.42	0.52
2:C:654:LEU:HD11	2:C:663:ASN:O	2.09	0.52
3:D:1101:VAL:HG12	3:D:1101:VAL:O	2.10	0.52
3:D:1149:LEU:HD21	3:D:1166:LEU:HD21	1.92	0.52
3:D:127:LEU:HD22	3:D:134:VAL:CG2	2.36	0.52
3:D:659:LYS:C	3:D:659:LYS:HD3	2.30	0.52
3:D:761:ILE:O	3:D:767:HIS:HD2	1.92	0.52
3:D:770:LEU:HG	3:D:919:PHE:CE1	2.45	0.52
3:D:949:ILE:HD11	3:D:1023:MET:HE1	1.91	0.52
5:F:94:LEU:HD13	5:F:94:LEU:C	2.30	0.52
1:K:1:MET:HG3	1:K:6:LEU:HB2	1.91	0.52
1:L:158:ILE:HG22	1:L:159:LYS:N	2.24	0.52
1:L:14:ARG:NH2	1:L:24:VAL:HG21	2.24	0.52
2:M:1089:VAL:O	2:M:1093:GLN:HG3	2.10	0.52
4:O:54:LEU:HD21	4:O:58:PRO:HB2	1.91	0.52
5:P:135:ILE:HD11	5:P:178:ARG:CG	2.40	0.52
5:P:196:VAL:HG13	5:P:213:ILE:HD11	1.90	0.52
1:A:44:LEU:HB2	1:A:177:VAL:HG21	1.92	0.52
1:B:7:LYS:HE3	1:B:186:LEU:CD2	2.40	0.52
2:C:1031:ARG:HA	3:D:621:LYS:O	2.10	0.52
2:C:495:THR:HG23	2:C:517:ARG:HE	1.73	0.52
2:C:15:LEU:CD2	2:C:583:LEU:HD21	2.39	0.52
3:D:1229:ILE:O	3:D:1229:ILE:HG22	2.09	0.52
3:D:233:LYS:HZ1	3:D:237:LYS:HD2	1.74	0.52
3:D:688:TRP:HE3	3:D:688:TRP:HA	1.75	0.52
3:D:1486:VAL:HG12	4:E:73:LEU:HD22	1.90	0.52
5:F:326:ASP:OD1	5:F:326:ASP:N	2.43	0.52
1:K:150:TYR:HE1	2:M:696:LYS:HA	1.74	0.52
2:M:196:LEU:HA	2:M:199:VAL:CG2	2.39	0.52
2:M:833:LEU:HD13	2:M:996:LYS:CD	2.40	0.52
3:N:1031:ASN:O	3:N:1034:GLN:HB2	2.10	0.52
3:N:22:SER:HA	3:N:90:MET:O	2.09	0.52
3:N:544:TYR:O	3:N:548:ILE:HG13	2.10	0.52
3:N:643:GLY:HA3	3:N:727:GLN:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:151:VAL:O	1:B:169:ALA:N	2.32	0.52
2:C:207:LEU:O	2:C:211:LEU:HB3	2.10	0.52
2:C:404:LEU:O	2:C:408:ARG:HG2	2.10	0.52
3:D:124:GLU:O	3:D:126:VAL:N	2.42	0.52
3:D:223:LEU:N	3:D:223:LEU:HD22	2.25	0.52
2:C:1052:MET:HG3	3:D:623:VAL:CG2	2.39	0.52
3:D:688:TRP:CE3	3:D:688:TRP:HA	2.43	0.52
2:M:43:GLY:HA2	2:M:341:THR:HG21	1.91	0.52
2:M:427:VAL:O	2:M:427:VAL:HG12	2.09	0.52
3:N:1124:GLN:NE2	3:N:1133:ARG:HD2	2.22	0.52
3:N:1264:GLU:O	3:N:1266:ARG:N	2.42	0.52
3:N:96:ALA:CB	3:N:554:LEU:HG	2.40	0.52
5:P:134:LYS:HB2	5:P:178:ARG:HH11	1.73	0.52
3:N:426:LYS:HZ2	5:P:138:SER:HA	1.75	0.52
5:P:232:ARG:O	5:P:233:PHE:C	2.48	0.52
1:A:58:ILE:HG22	1:A:59:GLU:N	2.24	0.52
2:C:142:ARG:HH11	2:C:325:ILE:HG23	1.73	0.52
2:C:352:ALA:HA	2:C:355:VAL:HG12	1.91	0.52
2:C:88:LEU:N	2:C:88:LEU:HD23	2.25	0.52
2:C:921:ALA:O	2:C:923:GLU:N	2.43	0.52
3:D:210:ARG:HD2	3:D:398:ALA:HB3	1.91	0.52
3:D:375:GLU:O	3:D:376:GLU:HB3	2.08	0.52
3:D:389:GLU:HG2	3:D:389:GLU:O	2.09	0.52
3:D:50:PHE:CB	3:D:522:PRO:HG2	2.39	0.52
3:D:969:ARG:O	3:D:973:GLN:HG3	2.08	0.52
1:K:117:VAL:O	1:K:118:ALA:O	2.28	0.52
1:K:214:ALA:O	1:K:216:GLU:N	2.43	0.52
1:L:101:LEU:HD21	1:L:109:VAL:HG11	1.92	0.52
1:L:27:PRO:HG2	1:L:186:LEU:HD12	1.92	0.52
1:L:88:ARG:HH11	1:L:88:ARG:HG2	1.74	0.52
2:M:194:VAL:HG13	2:M:221:LEU:HG	1.90	0.52
2:M:604:ALA:HB3	2:M:612:VAL:O	2.09	0.52
2:M:6:PHE:CD1	2:M:6:PHE:N	2.78	0.52
2:M:751:PRO:HG2	3:N:680:GLN:HE21	1.74	0.52
3:N:1345:GLU:HG3	3:N:1376:MET:SD	2.50	0.52
3:N:221:ALA:O	3:N:367:ILE:HD12	2.09	0.52
3:N:216:VAL:HG21	3:N:224:ARG:HG2	1.91	0.52
3:N:23:TYR:O	3:N:49:ILE:HG23	2.09	0.52
2:M:874:LEU:HD11	3:N:784:ASP:OD2	2.10	0.52
3:N:780:LYS:HD3	3:N:912:LYS:HG3	1.91	0.52
3:N:975:GLU:CD	3:N:988:ARG:HH12	2.12	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:321:ILE:HD11	5:P:329:TYR:HA	1.91	0.52
1:A:117:VAL:HG12	1:A:118:ALA:N	2.25	0.52
1:A:73:GLU:OE1	1:A:130:ALA:HA	2.09	0.52
1:A:148:VAL:N	1:A:171:PHE:CD2	2.78	0.52
1:B:74:ASP:O	1:B:78:ILE:HG13	2.09	0.52
2:C:226:VAL:HG13	2:C:227:PHE:CD1	2.45	0.52
2:C:420:ARG:N	2:C:420:ARG:HD3	2.25	0.52
2:C:29:ALA:C	2:C:44:ILE:HD13	2.29	0.52
2:C:516:ARG:HH11	2:C:521:PRO:CB	2.23	0.52
2:C:737:LEU:HD21	2:C:741:GLY:O	2.09	0.52
3:D:1236:LEU:HA	3:D:1359:GLN:NE2	2.25	0.52
3:D:241:ILE:HA	3:D:244:GLU:HB2	1.92	0.52
3:D:493:ARG:HE	3:D:1389:LEU:CG	2.22	0.52
3:D:87:ARG:O	3:D:521:PRO:CB	2.57	0.52
3:D:860:LEU:O	3:D:877:PRO:HD2	2.10	0.52
3:D:896:ALA:O	3:D:899:LEU:HD13	2.10	0.52
5:F:384:GLU:O	5:F:386:VAL:N	2.43	0.52
1:K:194:LYS:HD2	1:K:194:LYS:O	2.10	0.52
2:M:470:PRO:HD2	2:M:538:GLN:OE1	2.09	0.52
2:M:722:ILE:HD11	2:M:823:VAL:HG21	1.92	0.52
3:N:131:LYS:CE	3:N:456:MET:HE2	2.40	0.52
3:N:133:ILE:HG12	3:N:456:MET:SD	2.50	0.52
3:N:112:ILE:HG22	3:N:512:MET:SD	2.50	0.52
3:N:562:ALA:CB	3:N:567:ILE:HG12	2.40	0.52
3:N:159:ARG:HH21	5:P:87:GLU:HG2	1.73	0.52
1:A:104:GLU:HG2	1:A:137:ARG:HD2	1.91	0.52
2:C:250:ARG:NE	2:C:253:ALA:HB1	2.24	0.52
2:C:266:ARG:HG2	2:C:273:GLY:HA3	1.92	0.52
2:C:890:LEU:HD12	2:C:890:LEU:O	2.10	0.52
2:C:923:GLU:O	2:C:924:VAL:C	2.48	0.52
3:D:1063:GLU:HG2	3:D:1064:GLY:N	2.25	0.52
2:C:906:PHE:CE1	3:D:1067:VAL:HG13	2.45	0.52
3:D:384:VAL:O	5:F:232:ARG:NH1	2.42	0.52
3:D:510:GLU:O	3:D:513:ILE:HD12	2.10	0.52
3:D:55:ASP:HA	3:D:82:LYS:HA	1.91	0.52
3:D:583:ASP:OD1	3:D:604:THR:HG22	2.09	0.52
3:D:972:LEU:HD23	3:D:973:GLN:H	1.75	0.52
3:D:992:ILE:O	3:D:993:LEU:C	2.47	0.52
4:E:26:ARG:NH2	4:E:67:GLU:OE1	2.41	0.52
1:K:205:VAL:CG2	1:K:206:THR:N	2.73	0.52
1:L:83:LYS:NZ	3:N:842:VAL:O	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:103:LYS:HA	2:M:103:LYS:HE2	1.91	0.52
2:M:259:GLY:O	2:M:291:ALA:HB2	2.09	0.52
2:M:564:MET:HA	2:M:564:MET:CE	2.40	0.52
2:M:841:ASN:ND2	2:M:843:HIS:CD2	2.78	0.52
2:M:845:ASN:HD22	2:M:884:GLN:NE2	2.04	0.52
3:N:128:TYR:HE1	3:N:461:ILE:CG1	2.23	0.52
3:N:702:LEU:HB3	3:N:745:MET:HE1	1.92	0.52
5:P:300:ASP:OD2	5:P:302:LYS:HG3	2.10	0.52
3:N:215:TYR:CE1	5:P:97:GLU:HB3	2.44	0.52
2:C:140:ILE:HG23	2:C:333:ILE:HD12	1.92	0.52
2:C:495:THR:HG23	2:C:517:ARG:NE	2.25	0.52
2:C:397:GLU:H	2:C:633:GLN:NE2	2.07	0.52
2:C:64:LEU:HD11	2:C:100:LEU:HD13	1.91	0.52
2:C:682:TYR:HB3	2:C:689:VAL:HG13	1.92	0.52
3:D:1074:SER:O	3:D:1077:ALA:HB3	2.10	0.52
3:D:1130:ARG:O	3:D:1131:SER:HB3	2.10	0.52
3:D:1137:ARG:H	3:D:1137:ARG:HD2	1.74	0.52
3:D:1213:ARG:H	3:D:1213:ARG:HE	1.58	0.52
3:D:1372:VAL:O	3:D:1375:MET:HB2	2.10	0.52
3:D:1451:ALA:O	3:D:1452:ILE:C	2.47	0.52
3:D:614:PHE:CE1	3:D:618:LEU:HD12	2.45	0.52
1:L:223:THR:O	1:L:225:PHE:N	2.43	0.52
1:L:61:VAL:CG2	1:L:68:ILE:HD11	2.39	0.52
2:M:807:ARG:NH1	2:M:807:ARG:HB2	2.25	0.52
3:N:101:HIS:CD2	3:N:582:LEU:HD13	2.45	0.52
3:N:1046:GLN:HA	3:N:1052:THR:HA	1.91	0.52
3:N:1115:THR:HG22	3:N:1151:ARG:NH2	2.24	0.52
2:M:1047:HIS:CG	3:N:754:PHE:CD2	2.98	0.52
3:N:794:GLN:NE2	3:N:795:VAL:N	2.51	0.52
2:C:194:VAL:HA	2:C:197:LEU:HB2	1.92	0.51
2:C:211:LEU:HD11	2:C:308:ARG:HB2	1.92	0.51
2:C:443:THR:HG21	2:C:450:GLY:N	2.12	0.51
2:C:829:GLN:NE2	2:C:831:ARG:HD3	2.24	0.51
2:C:878:SER:CB	3:D:1029:ARG:NH1	2.73	0.51
3:D:996:TRP:CD2	3:D:1056:PRO:HG2	2.45	0.51
3:D:22:SER:OG	3:D:24:GLY:O	2.28	0.51
3:D:632:VAL:O	3:D:727:GLN:HA	2.09	0.51
3:D:831:GLY:HA3	3:D:834:THR:O	2.09	0.51
3:D:387:LEU:HD11	5:F:94:LEU:HD11	1.90	0.51
1:K:54:THR:HG22	1:K:143:ARG:HD3	1.91	0.51
1:K:179:PHE:O	1:K:180:GLN:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:518:LYS:O	2:M:518:LYS:HG3	2.09	0.51
3:N:584:ASN:HB2	3:N:602:SER:HB3	1.92	0.51
3:N:67:ARG:O	3:N:69:GLU:N	2.43	0.51
5:P:107:GLU:O	5:P:110:MET:HB3	2.10	0.51
5:P:295:MET:HA	5:P:295:MET:HE2	1.90	0.51
2:C:436:GLY:O	2:C:469:THR:HB	2.10	0.51
2:C:516:ARG:CZ	3:D:1068:LEU:CD2	2.77	0.51
2:C:1097:LEU:HG	3:D:101:HIS:CE1	2.45	0.51
3:D:1438:ALA:O	3:D:1443:THR:HG22	2.10	0.51
2:C:428:ARG:HH12	6:D:1525:STD:H141	1.74	0.51
3:D:186:VAL:HG11	3:D:213:VAL:CG1	2.39	0.51
3:D:161:LEU:O	3:D:449:SER:HB2	2.10	0.51
3:D:543:LEU:CD2	3:D:580:ALA:HB1	2.29	0.51
3:D:705:ALA:HB1	3:D:706:PRO:HD3	1.87	0.51
3:D:809:PRO:HB2	3:D:812:ALA:HB3	1.92	0.51
3:D:850:LEU:HD12	3:D:850:LEU:H	1.74	0.51
5:F:140:ARG:HG3	5:F:140:ARG:HH11	1.74	0.51
5:F:393:THR:CG2	5:F:394:ARG:H	2.12	0.51
1:L:44:LEU:HD11	1:L:199:ILE:HD11	1.92	0.51
1:L:38:ASN:HB3	1:L:39:PRO:HD3	1.91	0.51
2:M:157:ARG:HH11	2:M:314:THR:HB	1.75	0.51
2:M:422:ARG:O	2:M:422:ARG:HG2	2.09	0.51
2:M:575:GLN:O	2:M:667:ALA:HB1	2.10	0.51
2:M:769:PRO:HB2	3:N:65:ARG:NH1	2.25	0.51
3:N:1045:MET:HE3	3:N:1045:MET:HA	1.92	0.51
3:N:1170:ASP:C	3:N:1172:HIS:H	2.13	0.51
3:N:133:ILE:O	3:N:152:LEU:HB2	2.11	0.51
3:N:209:ARG:NH2	3:N:397:LYS:HG3	2.25	0.51
5:P:134:LYS:O	5:P:135:ILE:CG1	2.57	0.51
5:P:367:MET:HA	5:P:370:LYS:CG	2.40	0.51
2:C:1081:VAL:HG12	2:C:1082:PRO:CD	2.40	0.51
1:A:83:LYS:HZ3	2:C:698:ASP:CG	2.13	0.51
2:C:948:GLU:O	2:C:951:GLY:N	2.44	0.51
3:D:1259:VAL:HG21	3:D:1356:TYR:HE1	1.74	0.51
3:D:129:PHE:CD1	3:D:129:PHE:N	2.79	0.51
3:D:569:ASN:C	3:D:569:ASN:HD22	2.13	0.51
5:F:79:ASP:CB	5:F:80:PRO:HD3	2.32	0.51
2:M:745:ILE:CD1	2:M:745:ILE:H	2.24	0.51
2:M:874:LEU:CD1	3:N:784:ASP:OD2	2.58	0.51
3:N:227:LEU:N	3:N:227:LEU:HD13	2.26	0.51
3:N:826:PRO:HD2	3:N:829:VAL:HG13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:59:ASN:HB3	4:O:62:THR:OG1	2.10	0.51
4:O:23:VAL:HG11	4:O:65:MET:HG3	1.92	0.51
5:P:278:LEU:HB3	5:P:286:PRO:HG2	1.91	0.51
5:P:346:THR:HG22	5:P:347:GLN:N	2.24	0.51
1:A:58:ILE:HG22	1:A:59:GLU:H	1.76	0.51
1:B:123:MET:C	1:B:125:PRO:HD3	2.31	0.51
2:C:97:ARG:HH21	2:C:109:LYS:HD2	1.75	0.51
2:C:826:TYR:CD1	2:C:826:TYR:N	2.78	0.51
2:C:873:PRO:C	2:C:875:GLY:H	2.13	0.51
3:D:1092:GLY:O	3:D:1093:TYR:C	2.49	0.51
3:D:1197:ARG:HD3	3:D:1396:GLU:CB	2.39	0.51
3:D:614:PHE:HE1	3:D:618:LEU:HD12	1.76	0.51
4:E:45:ARG:HB3	4:E:46:PRO:CD	2.40	0.51
5:F:182:ALA:O	5:F:185:GLN:HB2	2.11	0.51
5:F:185:GLN:O	5:F:189:GLU:HG3	2.10	0.51
1:K:109:VAL:CG2	1:K:132:LEU:HD13	2.37	0.51
2:M:120:LEU:O	2:M:127:PHE:CD2	2.63	0.51
2:M:207:LEU:HD22	2:M:221:LEU:CD2	2.41	0.51
2:M:690:ILE:O	2:M:852:ILE:HA	2.11	0.51
2:M:807:ARG:HA	2:M:821:GLU:HB2	1.92	0.51
2:M:848:VAL:HG11	3:N:632:VAL:HG22	1.90	0.51
2:M:1097:LEU:CD2	3:N:10:ILE:HD13	2.30	0.51
3:N:134:VAL:HA	3:N:152:LEU:HA	1.92	0.51
3:N:444:VAL:O	3:N:444:VAL:HG13	2.10	0.51
3:N:466:LYS:HG2	3:N:510:GLU:CG	2.38	0.51
3:N:556:LYS:NZ	5:P:218:GLN:HE22	2.08	0.51
5:P:354:LEU:HD23	5:P:418:LEU:CD2	2.39	0.51
5:P:82:ARG:O	5:P:86:HIS:HB2	2.09	0.51
2:C:641:PRO:HA	2:C:656:ALA:HB2	1.93	0.51
2:C:873:PRO:C	2:C:875:GLY:N	2.64	0.51
3:D:1222:GLY:O	3:D:1225:ALA:HB3	2.10	0.51
3:D:154:THR:HG22	3:D:155:ASP:N	2.25	0.51
3:D:441:ARG:O	3:D:443:VAL:N	2.39	0.51
3:D:445:ARG:H	3:D:445:ARG:HD2	1.75	0.51
2:C:1056:LYS:HB3	3:D:623:VAL:HG13	1.93	0.51
3:D:52:PRO:HG2	3:D:80:VAL:HG23	1.91	0.51
3:D:8:VAL:HG12	3:D:9:ARG:H	1.75	0.51
2:M:726:ILE:HD11	2:M:754:ILE:HG21	1.91	0.51
3:N:127:LEU:HD12	3:N:128:TYR:N	2.26	0.51
3:N:162:ARG:HB2	3:N:434:ARG:NH2	2.26	0.51
3:N:625:TYR:HB3	3:N:749:VAL:HG21	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1045:ALA:HA	3:N:758:GLU:HB3	1.92	0.51
3:N:877:PRO:O	3:N:878:GLY:C	2.49	0.51
4:O:54:LEU:HG	4:O:58:PRO:CB	2.40	0.51
1:B:201:THR:HG21	1:B:205:VAL:O	2.09	0.51
2:C:1013:TYR:HE1	2:C:1020:PRO:HG3	1.76	0.51
2:C:381:ALA:O	2:C:384:GLU:N	2.44	0.51
2:C:480:THR:HG22	2:C:481:ASP:N	2.24	0.51
2:C:48:PHE:O	2:C:51:THR:N	2.43	0.51
3:D:1304:LYS:O	3:D:1304:LYS:HG2	2.10	0.51
3:D:223:LEU:CA	3:D:365:ASP:HB2	2.40	0.51
3:D:500:ARG:HH22	3:D:1388:ARG:CZ	2.23	0.51
3:D:564:GLU:HA	3:D:567:ILE:HD12	1.91	0.51
3:D:834:THR:HG22	3:D:838:ARG:HB2	1.91	0.51
3:D:25:GLU:HB2	3:D:92:HIS:NE2	2.26	0.51
3:D:984:THR:HG22	3:D:987:GLU:CD	2.30	0.51
3:D:984:THR:HG22	3:D:987:GLU:CB	2.39	0.51
4:E:46:PRO:CB	4:E:54:LEU:HD22	2.37	0.51
5:F:272:SER:O	5:F:275:ALA:HB3	2.11	0.51
5:F:411:HIS:CE1	5:F:412:GLU:HG2	2.45	0.51
1:K:156:HIS:CD2	1:K:158:ILE:HG12	2.45	0.51
2:M:1099:VAL:O	2:M:1099:VAL:HG23	2.11	0.51
2:M:157:ARG:NH1	2:M:314:THR:O	2.43	0.51
3:N:1295:GLU:CD	3:N:1300:SER:OG	2.49	0.51
3:N:149:LYS:HG2	3:N:150:ARG:H	1.76	0.51
3:N:456:MET:HG2	3:N:456:MET:O	2.11	0.51
3:N:633:VAL:N	3:N:740:PHE:CE2	2.79	0.51
1:A:108:GLU:O	1:A:110:LYS:HG3	2.10	0.51
1:B:106:PRO:HG3	1:B:134:GLU:OE1	2.11	0.51
2:C:148:PHE:HB3	2:C:313:LEU:HD22	1.92	0.51
2:C:693:GLU:O	2:C:697:ARG:HG2	2.10	0.51
2:C:787:ASP:OD2	2:C:791:ARG:NH2	2.42	0.51
3:D:396:VAL:CG2	3:D:447:VAL:HG12	2.37	0.51
3:D:541:ASN:O	3:D:545:ARG:HG3	2.10	0.51
3:D:562:ALA:HB1	3:D:567:ILE:CD1	2.40	0.51
3:D:624:ASP:HB3	3:D:625:TYR:CE1	2.46	0.51
3:D:662:GLU:OE1	3:D:662:GLU:C	2.49	0.51
3:D:662:GLU:OE1	3:D:663:GLU:N	2.44	0.51
3:D:992:ILE:O	3:D:995:LEU:N	2.44	0.51
4:E:48:MET:HG2	4:E:49:GLN:H	1.75	0.51
1:K:201:THR:HG22	1:K:202:ASP:N	2.25	0.51
2:M:418:LEU:N	2:M:418:LEU:HD22	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:583:LEU:O	2:M:584:GLU:C	2.49	0.51
2:M:591:SER:O	2:M:593:ALA:N	2.37	0.51
2:M:987:ILE:N	2:M:987:ILE:HD13	2.25	0.51
3:N:1031:ASN:HD22	3:N:1032:PRO:HD2	1.75	0.51
3:N:1043:GLY:C	3:N:1057:VAL:H	2.14	0.51
3:N:481:MET:HE1	3:N:1388:ARG:HE	1.74	0.51
3:N:249:TYR:O	3:N:250:LEU:HD12	2.09	0.51
3:N:850:LEU:N	3:N:850:LEU:HD12	2.26	0.51
1:A:127:LEU:O	1:A:127:LEU:HG	2.09	0.51
1:A:162:ILE:HG13	1:A:163:ASN:N	2.26	0.51
1:B:14:ARG:HH11	1:B:14:ARG:HG3	1.76	0.51
2:C:551:GLU:HB3	2:C:906:PHE:CE2	2.45	0.51
2:C:927:GLY:HA2	2:C:930:LYS:HE2	1.92	0.51
3:D:1412:LYS:HG3	3:D:1414:PRO:HD3	1.92	0.51
3:D:567:ILE:HG22	3:D:571:LYS:NZ	2.25	0.51
3:D:550:ARG:NH1	3:D:573:MET:HB3	2.26	0.51
3:D:58:CYS:SG	3:D:59:ALA:N	2.84	0.51
3:D:629:SER:HB3	3:D:726:ILE:CD1	2.39	0.51
3:D:650:LEU:HD22	3:D:688:TRP:CH2	2.46	0.51
5:F:161:GLN:O	5:F:164:LYS:HG2	2.11	0.51
1:K:93:SER:OG	1:K:94:LEU:HD12	2.11	0.51
1:L:102:LYS:HG3	1:L:139:ASN:HB2	1.91	0.51
2:M:139:GLN:HB3	2:M:334:ARG:HG3	1.92	0.51
2:M:176:VAL:HG12	2:M:182:VAL:CG1	2.32	0.51
2:M:442:GLU:HG2	2:M:454:SER:CB	2.41	0.51
2:M:588:VAL:O	2:M:591:SER:O	2.28	0.51
2:M:846:LYS:NZ	3:N:741:ASP:O	2.42	0.51
3:N:1209:LEU:C	3:N:1211:MET:N	2.63	0.51
3:N:139:GLY:HA3	3:N:452:ILE:CD1	2.40	0.51
3:N:150:ARG:HH12	3:N:464:LEU:HD22	1.75	0.51
3:N:44:LEU:CB	3:N:525:ARG:NH2	2.55	0.51
2:M:1051:GLU:OE2	3:N:752:SER:CB	2.59	0.51
5:P:264:MET:O	5:P:267:THR:HB	2.10	0.51
3:N:538:SER:N	5:P:317:LEU:HD12	2.26	0.51
2:C:42:VAL:HG12	2:C:43:GLY:N	2.25	0.51
2:C:405:ARG:HD3	2:C:543:ASN:OD1	2.11	0.51
2:C:568:ALA:HB1	2:C:668:LEU:HB3	1.93	0.51
3:D:123:LEU:O	3:D:126:VAL:HB	2.11	0.51
3:D:148:GLU:HA	3:D:151:GLN:HE21	1.76	0.51
3:D:670:VAL:O	3:D:672:ALA:N	2.43	0.51
3:D:1487:VAL:O	4:E:73:LEU:HD23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:189:ARG:HH12	1:L:155:LYS:NZ	2.09	0.51
1:K:224:TYR:CG	1:L:9:PRO:HD2	2.46	0.51
2:M:15:LEU:CD1	2:M:15:LEU:H	2.15	0.51
2:M:349:ALA:O	2:M:353:ARG:HG3	2.11	0.51
2:M:610:ARG:HD3	2:M:622:GLU:OE1	2.11	0.51
2:M:564:MET:HE1	2:M:846:LYS:HD2	1.93	0.51
2:M:673:LEU:HD21	2:M:895:TYR:CZ	2.45	0.51
2:M:971:LYS:HB3	2:M:986:PRO:O	2.11	0.51
3:N:999:THR:O	3:N:1002:LYS:HB2	2.11	0.51
3:N:1043:GLY:HA2	3:N:1057:VAL:H	1.76	0.51
3:N:115:LEU:CD1	3:N:498:VAL:HG23	2.40	0.51
3:N:1433:SER:HB2	3:N:1457:ASP:CG	2.30	0.51
3:N:231:VAL:CG1	3:N:378:ILE:HG23	2.41	0.51
3:N:550:ARG:HG3	3:N:550:ARG:HH11	1.76	0.51
3:N:558:LEU:HD13	5:P:145:PRO:HB3	1.93	0.51
3:N:603:LEU:O	3:N:606:ILE:HB	2.11	0.51
2:M:1008:ARG:NH1	3:N:624:ASP:OD1	2.41	0.51
5:P:402:ASN:O	5:P:406:ARG:HD2	2.11	0.51
1:B:100:LEU:CD1	1:B:115:LEU:HD21	2.37	0.51
2:C:113:VAL:O	2:C:115:LEU:HD23	2.10	0.51
2:C:127:PHE:CD1	2:C:386:PHE:CE2	2.95	0.51
2:C:145:GLY:N	2:C:163:ILE:HG23	2.25	0.51
2:C:431:HIS:HD2	2:C:432:ARG:N	2.08	0.51
2:C:484:VAL:O	2:C:486:MET:HG3	2.11	0.51
2:C:885:ILE:HD12	3:D:949:ILE:O	2.11	0.51
3:D:1457:ASP:O	3:D:1457:ASP:OD1	2.29	0.51
3:D:542:ASP:O	3:D:546:ARG:CG	2.59	0.51
3:D:936:TYR:HE2	3:D:940:THR:HG21	1.76	0.51
5:F:192:LEU:O	5:F:196:VAL:HG23	2.10	0.51
5:F:354:LEU:CD2	5:F:418:LEU:HD21	2.41	0.51
1:K:213:GLN:O	1:K:214:ALA:C	2.49	0.51
2:M:1008:ARG:HD2	2:M:1027:PHE:O	2.10	0.51
2:M:226:VAL:HG13	2:M:227:PHE:CD1	2.45	0.51
2:M:511:GLU:O	2:M:526:PRO:HD3	2.11	0.51
2:M:714:ASP:N	2:M:818:GLY:O	2.44	0.51
1:K:183:ASP:N	2:M:938:LYS:HZ2	2.09	0.51
3:N:152:LEU:HD23	3:N:152:LEU:H	1.76	0.51
3:N:673:ALA:O	3:N:676:MET:HB3	2.10	0.51
5:P:138:SER:HB2	5:P:140:ARG:HG2	1.92	0.51
5:P:260:ILE:HD11	5:P:264:MET:HB3	1.93	0.51
1:B:217:ILE:O	1:B:221:HIS:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:85:LEU:HD12	1:B:124:ASN:CB	2.41	0.50
2:C:1021:LEU:HD21	5:F:332:PHE:HA	1.92	0.50
2:C:164:PRO:HB2	2:C:169:GLY:HA3	1.92	0.50
2:C:493:ARG:HB3	2:C:494:TYR:CE2	2.46	0.50
2:C:853:LEU:HB3	2:C:858:MET:CE	2.41	0.50
3:D:1441:GLN:CA	3:D:1441:GLN:NE2	2.72	0.50
3:D:240:GLU:O	3:D:244:GLU:N	2.45	0.50
3:D:218:LYS:HG3	3:D:370:ALA:CB	2.40	0.50
3:D:378:ILE:H	3:D:378:ILE:CD1	2.10	0.50
3:D:522:PRO:HA	3:D:525:ARG:NH1	2.26	0.50
3:D:670:VAL:O	3:D:671:LYS:C	2.50	0.50
5:F:405:LEU:O	5:F:408:LEU:HB3	2.11	0.50
1:K:113:ASP:OD2	1:K:113:ASP:N	2.44	0.50
1:K:206:THR:HG23	1:K:207:PRO:N	2.24	0.50
2:M:113:VAL:O	2:M:115:LEU:N	2.44	0.50
2:M:300:ASP:C	2:M:302:VAL:N	2.64	0.50
2:M:537:LYS:CB	2:M:537:LYS:NZ	2.75	0.50
3:N:1058:ARG:CG	3:N:1058:ARG:HH11	2.23	0.50
3:N:1438:ALA:C	3:N:1440:PHE:N	2.63	0.50
3:N:545:ARG:NH1	3:N:545:ARG:HB2	2.26	0.50
3:N:56:TYR:CZ	3:N:66:GLN:HG3	2.45	0.50
1:A:13:VAL:CG1	1:A:14:ARG:N	2.74	0.50
1:B:36:LEU:C	1:B:39:PRO:HD2	2.31	0.50
2:C:1040:LEU:HD21	2:C:1048:THR:HG22	1.93	0.50
2:C:1059:ASP:O	2:C:1063:ARG:HG2	2.12	0.50
2:C:1102:LEU:HD23	2:C:1106:ASP:HA	1.92	0.50
2:C:183:SER:CB	2:C:190:LYS:CD	2.89	0.50
2:C:182:VAL:HG12	2:C:183:SER:N	2.26	0.50
2:C:517:ARG:HG3	2:C:517:ARG:HH11	1.76	0.50
2:C:607:ASP:O	2:C:608:GLY:C	2.47	0.50
2:C:855:VAL:CG1	2:C:856:GLU:N	2.74	0.50
2:C:432:ARG:HH21	3:D:1048:PRO:HD2	1.76	0.50
3:D:122:GLU:O	3:D:122:GLU:CD	2.49	0.50
3:D:1190:SER:OG	3:D:1369:GLU:OE1	2.27	0.50
3:D:441:ARG:HG3	3:D:442:ASN:N	2.26	0.50
3:D:525:ARG:N	3:D:526:PRO:CD	2.74	0.50
3:D:896:ALA:HA	3:D:899:LEU:HD11	1.94	0.50
5:F:158:GLU:O	5:F:161:GLN:HB2	2.11	0.50
2:M:74:GLY:O	2:M:76:PRO:HD3	2.10	0.50
3:N:1043:GLY:CA	3:N:1057:VAL:H	2.24	0.50
3:N:149:LYS:HE2	3:N:151:GLN:HE21	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:234:GLU:O	3:N:240:GLU:HB3	2.11	0.50
3:N:385:VAL:HG12	3:N:387:LEU:CD1	2.40	0.50
3:N:434:ARG:N	3:N:434:ARG:HD3	2.26	0.50
3:N:699:VAL:HG12	3:N:717:GLN:HA	1.93	0.50
2:M:1039:ALA:HB3	3:N:713:ILE:HD12	1.94	0.50
3:N:786:ILE:O	3:N:787:LEU:C	2.48	0.50
3:N:84:ILE:O	3:N:86:ARG:N	2.45	0.50
5:P:298:GLY:O	5:P:303:ARG:NH1	2.43	0.50
1:A:58:ILE:HB	1:A:61:VAL:HB	1.94	0.50
1:B:112:ARG:HB3	1:B:112:ARG:NH1	2.27	0.50
1:B:180:GLN:OE1	1:B:198:ARG:NH2	2.44	0.50
2:C:191:PHE:CD2	2:C:195:LEU:HD23	2.45	0.50
2:C:328:LEU:HD11	2:C:434:HIS:CD2	2.47	0.50
2:C:74:GLY:C	2:C:75:GLU:HG3	2.31	0.50
2:C:71:TYR:HA	2:C:96:ALA:HB2	1.93	0.50
3:D:1076:GLY:HA2	3:D:1079:LYS:CD	2.41	0.50
3:D:1313:VAL:HG22	3:D:1314:LYS:N	2.25	0.50
3:D:1432:LYS:HZ1	3:D:1460:ILE:HB	1.75	0.50
3:D:139:GLY:CA	3:D:147:VAL:HG13	2.41	0.50
3:D:85:VAL:HB	3:D:89:ARG:CD	2.42	0.50
5:F:321:ILE:HD13	5:F:322:GLY:H	1.72	0.50
1:K:38:ASN:OD1	2:M:979:THR:C	2.48	0.50
1:L:101:LEU:HD11	1:L:113:ASP:HB2	1.92	0.50
1:L:167:VAL:HG12	1:L:168:ASP:O	2.10	0.50
2:M:290:LEU:HD23	2:M:290:LEU:N	2.18	0.50
2:M:483:VAL:HG12	2:M:484:VAL:N	2.26	0.50
2:M:606:VAL:HG11	2:M:643:VAL:O	2.12	0.50
2:M:606:VAL:HG23	2:M:606:VAL:O	2.11	0.50
2:M:640:ARG:HD3	2:M:642:ARG:HH22	1.74	0.50
3:N:101:HIS:CD2	3:N:103:TRP:HB2	2.47	0.50
3:N:1440:PHE:CB	3:N:1442:ASN:OD1	2.57	0.50
3:N:196:VAL:HG22	3:N:204:LEU:CD2	2.39	0.50
3:N:397:LYS:NZ	3:N:399:ARG:HH21	2.09	0.50
3:N:676:MET:HE2	3:N:684:LYS:HG3	1.92	0.50
4:O:63:TRP:O	4:O:66:LYS:N	2.44	0.50
5:P:184:ARG:O	5:P:188:ILE:HG12	2.11	0.50
5:P:418:LEU:O	5:P:420:ASP:N	2.44	0.50
2:C:670:GLN:HE22	2:C:699:PHE:HA	1.76	0.50
2:C:806:LEU:HD13	2:C:813:VAL:HG11	1.92	0.50
3:D:710:ARG:NH1	3:D:1210:SER:OG	2.44	0.50
3:D:218:LYS:HD2	3:D:372:ASP:CG	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:880:ILE:HD13	3:D:880:ILE:O	2.11	0.50
3:D:535:PHE:CD1	5:F:258:ILE:CD1	2.95	0.50
2:M:176:VAL:HG12	2:M:182:VAL:HG22	1.94	0.50
2:M:142:ARG:HH11	2:M:325:ILE:HG23	1.74	0.50
2:M:537:LYS:HA	2:M:905:ILE:CD1	2.38	0.50
2:M:601:GLY:HA3	2:M:615:TYR:HA	1.92	0.50
2:M:617:ASP:O	2:M:619:ARG:HG3	2.10	0.50
2:M:782:ALA:O	2:M:784:ASP:N	2.45	0.50
2:M:881:ASN:ND2	2:M:881:ASN:N	2.59	0.50
3:N:1008:PHE:O	3:N:1010:ASN:N	2.44	0.50
3:N:1066:THR:HG23	3:N:1069:GLU:HG3	1.94	0.50
3:N:1101:VAL:O	3:N:1101:VAL:HG22	2.11	0.50
3:N:570:GLU:O	3:N:572:ARG:N	2.45	0.50
1:A:5:LYS:O	1:A:8:ALA:CB	2.60	0.50
1:B:201:THR:HG22	1:B:202:ASP:N	2.26	0.50
2:C:203:ASP:O	2:C:207:LEU:HB2	2.12	0.50
2:C:200:LEU:HD22	2:C:300:ASP:N	2.27	0.50
2:C:51:THR:O	2:C:51:THR:HG22	2.12	0.50
2:C:810:ASP:HB3	2:C:813:VAL:CG2	2.39	0.50
3:D:1042:ARG:NH1	3:D:1061:PHE:CZ	2.79	0.50
3:D:179:VAL:HG11	3:D:217:LYS:NZ	2.25	0.50
2:C:676:ILE:O	3:D:948:THR:HG22	2.10	0.50
5:F:319:THR:HG23	5:F:320:PRO:HD2	1.93	0.50
2:M:1003:ASP:O	2:M:1004:LYS:C	2.48	0.50
2:M:281:LEU:HD23	2:M:281:LEU:H	1.77	0.50
2:M:586:ARG:HD2	2:M:590:ASP:OD2	2.12	0.50
2:M:608:GLY:C	2:M:609:ASN:HD22	2.14	0.50
2:M:610:ARG:C	2:M:611:ILE:HG13	2.32	0.50
2:M:603:VAL:HG21	2:M:643:VAL:CG1	2.42	0.50
3:N:1072:ILE:O	3:N:1075:HIS:HD2	1.95	0.50
3:N:404:GLU:OE2	3:N:414:ARG:CZ	2.59	0.50
3:N:162:ARG:HG3	3:N:434:ARG:HE	1.71	0.50
3:N:658:LEU:O	3:N:661:MET:HB2	2.11	0.50
3:N:804:LEU:HD12	3:N:831:GLY:CA	2.40	0.50
2:C:1005:MET:HE1	3:D:648:MET:HB2	1.94	0.50
2:C:1092:LEU:HD13	2:C:1099:VAL:CG2	2.40	0.50
2:C:235:LEU:O	2:C:239:PHE:HB2	2.12	0.50
2:C:285:LEU:HD13	2:C:301:GLU:HB3	1.94	0.50
2:C:139:GLN:O	2:C:333:ILE:HA	2.11	0.50
2:C:403:SER:O	2:C:407:LYS:CE	2.59	0.50
2:C:826:TYR:HD1	2:C:826:TYR:N	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:905:ILE:HG22	2:C:906:PHE:CG	2.47	0.50
3:D:107:ASP:O	3:D:108:VAL:C	2.50	0.50
3:D:1080:GLY:O	3:D:1084:THR:HG23	2.11	0.50
3:D:1425:THR:HG22	3:D:1426:LYS:N	2.26	0.50
3:D:615:ARG:O	3:D:619:LEU:HB2	2.12	0.50
3:D:649:ALA:HA	3:D:652:LEU:HD22	1.94	0.50
3:D:711:LEU:O	3:D:714:GLN:HG3	2.12	0.50
3:D:731:LEU:HD11	3:D:931:LEU:HB3	1.93	0.50
3:D:973:GLN:HA	3:D:976:GLN:OE1	2.12	0.50
4:E:41:GLU:O	4:E:42:PRO:C	2.49	0.50
4:E:61:GLU:CD	4:E:62:THR:H	2.15	0.50
5:F:136:LEU:HD12	5:F:137:GLY:N	2.15	0.50
2:M:355:VAL:HG23	2:M:372:LEU:HA	1.94	0.50
2:M:41:ASN:HA	2:M:45:GLN:OE1	2.12	0.50
3:N:131:LYS:O	3:N:131:LYS:HG2	2.12	0.50
3:N:1389:LEU:H	3:N:1389:LEU:CD2	2.13	0.50
3:N:166:GLN:HE21	3:N:167:GLU:C	2.15	0.50
3:N:137:PRO:HG2	3:N:453:ASP:CG	2.32	0.50
3:N:112:ILE:HG22	3:N:512:MET:CE	2.42	0.50
3:N:658:LEU:HD23	3:N:661:MET:HE1	1.93	0.50
3:N:658:LEU:HA	3:N:661:MET:HE3	1.94	0.50
5:P:284:ARG:O	5:P:286:PRO:HD3	2.12	0.50
2:C:17:PRO:O	2:C:19:THR:N	2.45	0.50
2:C:243:ARG:HG2	2:C:243:ARG:HH11	1.77	0.50
2:C:824:ARG:HB3	2:C:826:TYR:HE1	1.76	0.50
3:D:1394:VAL:HG21	3:D:1397:LYS:HE2	1.93	0.50
3:D:1490:LYS:HD2	4:E:93:TYR:OH	2.11	0.50
3:D:400:VAL:HG13	3:D:442:ASN:C	2.32	0.50
3:D:603:LEU:O	3:D:606:ILE:HG13	2.12	0.50
1:K:72:LYS:HA	2:M:607:ASP:O	2.11	0.50
1:L:117:VAL:HB	1:L:120:VAL:HB	1.94	0.50
1:L:1:MET:H3	1:L:1:MET:CE	2.24	0.50
1:L:58:ILE:HG22	1:L:59:GLU:HG2	1.93	0.50
2:M:379:GLU:O	2:M:383:ARG:HB3	2.12	0.50
2:M:474:VAL:HG22	2:M:476:GLY:O	2.12	0.50
2:M:737:LEU:HA	2:M:743:VAL:HA	1.93	0.50
2:M:833:LEU:HD13	2:M:996:LYS:HD2	1.94	0.50
3:N:128:TYR:HE1	3:N:461:ILE:HG13	1.76	0.50
3:N:1474:ALA:O	3:N:1475:GLY:C	2.50	0.50
3:N:187:LYS:HZ3	3:N:445:ARG:HH22	1.59	0.50
3:N:394:LEU:N	3:N:394:LEU:HD12	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:45:PHE:CD1	3:N:522:PRO:HB3	2.47	0.50
3:N:914:LEU:O	3:N:918:ALA:HB2	2.12	0.50
1:A:206:THR:HB	1:A:209:GLU:CB	2.41	0.50
2:C:431:HIS:C	2:C:433:THR:H	2.14	0.50
2:C:588:VAL:HG23	2:C:596:TYR:OH	2.12	0.50
2:C:690:ILE:CG2	2:C:691:SER:N	2.75	0.50
3:D:1086:LEU:HD22	6:D:1525:STD:C11	2.40	0.50
3:D:1155:VAL:HG21	3:D:1183:ILE:CD1	2.41	0.50
3:D:220:ARG:HH11	3:D:222:GLY:HA3	1.76	0.50
3:D:402:PRO:HB2	3:D:413:ASP:O	2.12	0.50
3:D:52:PRO:HG3	3:D:78:VAL:HG13	1.93	0.50
3:D:826:PRO:O	3:D:836:VAL:HG11	2.11	0.50
3:D:858:VAL:HG12	3:D:862:ASP:HB3	1.94	0.50
4:E:26:ARG:O	4:E:29:GLN:HG2	2.10	0.50
4:E:51:LEU:HD12	4:E:52:GLU:C	2.32	0.50
2:C:1014:SER:HA	5:F:333:ILE:O	2.11	0.50
1:L:173:PRO:HB3	1:L:202:ASP:OD1	2.12	0.50
2:M:1115:LEU:HD13	3:N:85:VAL:CG1	2.41	0.50
2:M:244:PRO:HG2	2:M:245:GLY:H	1.76	0.50
2:M:41:ASN:O	2:M:46:ALA:HB2	2.11	0.50
3:N:131:LYS:HE3	3:N:568:ARG:HG2	1.94	0.50
3:N:1346:ARG:HG3	3:N:1346:ARG:HH11	1.77	0.50
4:O:70:THR:HG21	4:O:72:ARG:CZ	2.41	0.50
3:N:423:ASP:N	5:P:178:ARG:HE	2.10	0.50
2:C:139:GLN:O	2:C:334:ARG:N	2.40	0.50
2:C:313:LEU:HD13	2:C:321:GLU:HB2	1.93	0.50
2:C:338:GLU:HA	2:C:341:THR:CG2	2.42	0.50
2:C:437:ARG:NH2	2:C:488:ALA:HA	2.27	0.50
3:D:1114:THR:O	3:D:1116:ASN:N	2.44	0.50
3:D:1495:ILE:HG23	3:D:1499:ARG:NH2	2.24	0.50
3:D:613:ARG:NH1	3:D:613:ARG:HG3	2.25	0.50
3:D:728:LEU:HD12	3:D:729:HIS:N	2.25	0.50
3:D:796:ARG:HD2	3:D:861:GLN:O	2.11	0.50
3:D:93:ILE:O	3:D:95:LEU:HD12	2.11	0.50
3:D:98:PRO:HG2	3:D:462:GLN:NE2	2.20	0.50
5:F:131:VAL:HG13	5:F:178:ARG:HD3	1.94	0.50
2:M:1058:ASP:O	2:M:1060:ILE:N	2.45	0.50
2:M:768:THR:CB	2:M:771:GLU:HB3	2.42	0.50
3:N:658:LEU:HD11	3:N:674:ARG:HH11	1.76	0.50
3:N:665:GLY:O	3:N:667:ALA:N	2.45	0.50
3:N:668:PRO:HD2	3:N:672:ALA:CB	2.33	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:773:ALA:O	3:N:774:SER:CB	2.60	0.50
3:N:935:LYS:HG2	3:N:939:PHE:HE1	1.72	0.50
4:O:9:LEU:HD21	4:O:69:LEU:HG	1.93	0.50
5:P:120:THR:C	5:P:122:LEU:H	2.15	0.50
2:C:966:LEU:HD21	2:C:986:PRO:CG	2.30	0.49
3:D:172:PRO:CA	3:D:178:LEU:HD12	2.42	0.49
3:D:568:ARG:O	3:D:571:LYS:N	2.45	0.49
3:D:703:ASN:ND2	3:D:704:ARG:N	2.60	0.49
3:D:765:SER:OG	3:D:766:ALA:N	2.45	0.49
5:F:164:LYS:CA	5:F:171:LYS:HZ2	2.25	0.49
1:L:142:VAL:O	1:L:142:VAL:HG23	2.12	0.49
1:L:7:LYS:O	1:L:7:LYS:HG2	2.10	0.49
2:M:165:LEU:HA	2:M:166:PRO:C	2.32	0.49
2:M:327:HIS:C	2:M:329:GLY:H	2.15	0.49
2:M:338:GLU:HG2	2:M:342:ASP:OD2	2.12	0.49
2:M:483:VAL:HG12	2:M:484:VAL:H	1.77	0.49
2:M:89:THR:O	2:M:91:GLN:N	2.45	0.49
3:N:216:VAL:CG1	3:N:221:ALA:HA	2.40	0.49
3:N:444:VAL:O	3:N:446:VAL:HG23	2.11	0.49
3:N:479:GLU:O	3:N:481:MET:N	2.45	0.49
3:N:593:ASN:O	3:N:594:PRO:O	2.30	0.49
3:N:604:THR:C	3:N:606:ILE:N	2.63	0.49
3:N:650:LEU:HG	3:N:650:LEU:O	2.11	0.49
1:L:80:LEU:HD13	3:N:842:VAL:HG12	1.94	0.49
3:N:795:VAL:HG23	3:N:879:ARG:CZ	2.42	0.49
5:P:202:TYR:CD1	5:P:247:ILE:HG21	2.47	0.49
5:P:316:SER:C	5:P:318:GLU:H	2.16	0.49
1:A:199:ILE:HD12	1:A:199:ILE:N	2.27	0.49
1:A:41:ARG:HA	1:A:44:LEU:HD12	1.94	0.49
1:A:99:LEU:HB2	1:A:142:VAL:CG2	2.42	0.49
2:C:1111:ILE:O	2:C:1113:GLU:N	2.45	0.49
2:C:1090:LYS:HE2	2:C:1112:PHE:CZ	2.47	0.49
2:C:196:LEU:O	2:C:196:LEU:HD23	2.12	0.49
2:C:431:HIS:CD2	2:C:432:ARG:N	2.80	0.49
3:D:140:ALA:O	3:D:141:ILE:O	2.30	0.49
3:D:565:ILE:CD1	3:D:565:ILE:H	2.03	0.49
3:D:598:ARG:HD2	3:D:599:PRO:CD	2.40	0.49
3:D:959:GLU:O	3:D:963:TYR:CD1	2.65	0.49
1:L:176:ARG:H	1:L:200:TRP:CB	2.24	0.49
1:L:86:VAL:CG1	1:L:124:ASN:HB2	2.42	0.49
2:M:418:LEU:O	2:M:419:THR:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:421:GLU:O	2:M:422:ARG:HB2	2.12	0.49
2:M:517:ARG:HH11	2:M:517:ARG:HG3	1.77	0.49
3:N:479:GLU:HA	3:N:483:HIS:NE2	2.28	0.49
3:N:99:ALA:HA	3:N:575:GLN:NE2	2.28	0.49
3:N:764:LEU:CD2	3:N:766:ALA:HB3	2.42	0.49
3:N:800:LYS:HB2	3:N:829:VAL:HG12	1.93	0.49
4:O:79:LEU:O	4:O:79:LEU:HD13	2.12	0.49
5:P:272:SER:O	5:P:275:ALA:N	2.44	0.49
5:P:418:LEU:HD12	5:P:418:LEU:N	2.27	0.49
1:B:143:ARG:HG2	1:B:145:ASP:OD1	2.13	0.49
1:B:57:TYR:HE1	1:B:163:ASN:HB2	1.75	0.49
2:C:185:LYS:HE3	2:C:185:LYS:N	2.25	0.49
2:C:438:ILE:HA	2:C:455:LEU:HA	1.93	0.49
2:C:491:GLU:O	2:C:493:ARG:N	2.46	0.49
2:C:607:ASP:O	2:C:610:ARG:N	2.45	0.49
3:D:1282:ARG:HH12	3:D:1293:PHE:HD2	1.61	0.49
3:D:1457:ASP:OD1	3:D:1459:LEU:HD23	2.11	0.49
3:D:560:GLN:NE2	5:F:218:GLN:HE22	2.10	0.49
3:D:633:VAL:HG22	3:D:635:PRO:HD3	1.95	0.49
3:D:783:ARG:HH21	3:D:1029:ARG:HG3	1.77	0.49
3:D:845:ASN:O	3:D:846:PRO:C	2.50	0.49
3:D:91:GLY:O	3:D:519:VAL:N	2.45	0.49
5:F:262:VAL:O	5:F:265:VAL:HB	2.12	0.49
5:F:94:LEU:HD12	5:F:96:LEU:H	1.74	0.49
1:K:212:ASN:O	1:K:215:VAL:HG22	2.12	0.49
1:L:86:VAL:HG12	1:L:124:ASN:HB2	1.93	0.49
2:M:1047:HIS:O	2:M:1050:GLN:CB	2.57	0.49
2:M:129:ILE:CD1	2:M:129:ILE:N	2.75	0.49
2:M:287:GLY:O	2:M:288:ARG:C	2.50	0.49
2:M:899:GLN:HG3	2:M:901:TYR:CZ	2.47	0.49
2:M:923:GLU:O	2:M:927:GLY:HA3	2.12	0.49
2:M:983:ILE:O	2:M:984:GLU:C	2.50	0.49
3:N:1008:PHE:O	3:N:1009:LYS:C	2.49	0.49
3:N:1397:LYS:NZ	3:N:1432:LYS:HB3	2.26	0.49
3:N:30:GLU:HG3	3:N:41:ARG:HE	1.77	0.49
3:N:434:ARG:HG2	3:N:447:VAL:CG2	2.42	0.49
3:N:792:ILE:HG23	3:N:793:THR:HG23	1.94	0.49
3:N:895:VAL:HG11	3:N:922:LEU:HD21	1.94	0.49
5:P:156:VAL:HG13	5:P:157:GLU:H	1.77	0.49
3:N:598:ARG:HH22	5:P:318:GLU:HG3	1.77	0.49
5:P:323:ASP:O	5:P:324:GLU:C	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:211:LEU:O	1:B:214:ALA:HB3	2.12	0.49
2:C:1059:ASP:OD2	2:C:1080:SER:HB2	2.12	0.49
2:C:49:ARG:HH11	2:C:49:ARG:CA	2.25	0.49
2:C:602:GLU:HB3	2:C:614:ARG:CB	2.40	0.49
2:C:691:SER:N	2:C:868:ASP:O	2.46	0.49
2:C:789:SER:HB2	2:C:791:ARG:HE	1.77	0.49
3:D:1014:ASN:O	3:D:1015:TYR:HD1	1.96	0.49
3:D:1047:LYS:HB2	3:D:1049:SER:OG	2.12	0.49
3:D:118:LEU:O	3:D:120:ALA:N	2.45	0.49
3:D:122:GLU:O	3:D:122:GLU:OE1	2.31	0.49
3:D:1373:ARG:CG	3:D:1374:GLN:HE21	2.25	0.49
3:D:433:GLY:N	3:D:448:GLU:HA	2.26	0.49
3:D:503:LEU:O	3:D:504:ASP:O	2.30	0.49
3:D:567:ILE:HG22	3:D:571:LYS:HZ1	1.77	0.49
3:D:575:GLN:O	3:D:579:ASP:OD1	2.30	0.49
3:D:699:VAL:HG12	3:D:717:GLN:CB	2.42	0.49
3:D:911:LEU:O	3:D:914:LEU:N	2.46	0.49
4:E:44:GLU:O	4:E:45:ARG:HD3	2.13	0.49
5:F:243:ILE:O	5:F:247:ILE:HG13	2.12	0.49
1:K:73:GLU:OE1	1:K:130:ALA:HA	2.13	0.49
2:M:1085:PHE:O	2:M:1086:ARG:C	2.50	0.49
2:M:147:TYR:CE2	2:M:276:LYS:HD3	2.48	0.49
2:M:417:GLY:C	2:M:418:LEU:HD22	2.33	0.49
2:M:516:ARG:NH2	3:N:1068:LEU:HB2	2.27	0.49
3:N:1107:VAL:HG12	3:N:1217:ILE:HA	1.93	0.49
3:N:131:LYS:HB2	3:N:572:ARG:HH21	1.77	0.49
3:N:1438:ALA:O	3:N:1440:PHE:N	2.45	0.49
3:N:1500:LYS:O	3:N:1503:VAL:HG23	2.13	0.49
3:N:239:GLY:C	3:N:241:ILE:H	2.15	0.49
3:N:14:SER:OG	3:N:511:TRP:NE1	2.43	0.49
3:N:628:ARG:HA	3:N:745:MET:O	2.13	0.49
3:N:658:LEU:HD23	3:N:661:MET:CE	2.43	0.49
5:P:346:THR:O	5:P:348:SER:N	2.45	0.49
1:A:53:VAL:HG21	1:A:82:LEU:HB3	1.95	0.49
1:B:167:VAL:HG12	1:B:168:ASP:H	1.77	0.49
2:C:140:ILE:HG21	2:C:331:ARG:NH1	2.28	0.49
2:C:589:ARG:HD3	2:C:596:TYR:CE2	2.47	0.49
2:C:860:HIS:CE1	2:C:977:GLY:HA2	2.46	0.49
2:C:892:LEU:HD12	2:C:892:LEU:O	2.12	0.49
3:D:1262:LEU:C	3:D:1264:GLU:H	2.16	0.49
3:D:135:LEU:HD23	3:D:136:ASP:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:245:LEU:CD1	3:D:366:LYS:HE2	2.43	0.49
3:D:543:LEU:O	3:D:546:ARG:HB2	2.13	0.49
3:D:806:PHE:CD1	3:D:812:ALA:HB3	2.48	0.49
3:D:911:LEU:O	3:D:912:LYS:C	2.50	0.49
1:L:112:ARG:CZ	1:L:112:ARG:HB3	2.43	0.49
2:M:374:ASN:O	2:M:377:PRO:HD2	2.12	0.49
3:N:1263:PHE:CE2	3:N:1371:VAL:HG11	2.48	0.49
3:N:1320:GLU:HG3	3:N:1323:GLN:NE2	2.27	0.49
3:N:13:ALA:HB1	3:N:18:ILE:CD1	2.41	0.49
3:N:385:VAL:HG12	3:N:387:LEU:HD12	1.94	0.49
3:N:535:PHE:O	5:P:314:PRO:CA	2.60	0.49
3:N:769:LEU:N	3:N:769:LEU:CD1	2.76	0.49
3:N:988:ARG:NH1	3:N:992:ILE:HD11	2.27	0.49
4:O:6:ILE:HG23	4:O:7:ASP:N	2.27	0.49
1:B:108:GLU:CD	1:B:131:THR:HG22	2.33	0.49
1:B:33:GLY:C	1:B:181:VAL:HG21	2.33	0.49
1:B:207:PRO:O	1:B:208:LEU:C	2.51	0.49
1:B:32:PHE:C	1:B:34:VAL:N	2.63	0.49
1:B:47:SER:O	1:B:48:ILE:C	2.50	0.49
2:C:443:THR:HG23	2:C:444:PRO:CD	2.41	0.49
2:C:497:ALA:HA	2:C:515:ALA:HA	1.93	0.49
2:C:544:THR:HA	2:C:547:ILE:CD1	2.42	0.49
2:C:69:LEU:HB2	2:C:97:ARG:O	2.13	0.49
2:C:882:LEU:HD11	3:D:1038:LEU:HD22	1.93	0.49
2:C:580:MET:O	2:C:902:ILE:HG23	2.13	0.49
3:D:12:LEU:HD21	3:D:104:PHE:HE1	1.78	0.49
3:D:1231:GLU:O	3:D:1232:PRO:C	2.51	0.49
3:D:1118:ILE:HD11	3:D:1346:ARG:NH1	2.27	0.49
3:D:177:ALA:O	3:D:199:LEU:HD13	2.12	0.49
3:D:656:PHE:HE1	3:D:751:LEU:HD23	1.78	0.49
3:D:699:VAL:HA	3:D:717:GLN:HA	1.95	0.49
3:D:731:LEU:CD1	3:D:931:LEU:HB3	2.43	0.49
5:F:367:MET:HA	5:F:370:LYS:HB3	1.95	0.49
2:M:135:VAL:HG11	2:M:406:HIS:HD1	1.75	0.49
2:M:197:LEU:HD13	2:M:207:LEU:CD1	2.43	0.49
2:M:478:VAL:HG13	2:M:506:ASN:CB	2.32	0.49
2:M:551:GLU:CG	2:M:906:PHE:HA	2.42	0.49
3:N:1435:LEU:O	3:N:1437:ALA:N	2.46	0.49
3:N:35:ARG:CB	3:N:35:ARG:HH11	2.25	0.49
3:N:661:MET:SD	3:N:673:ALA:HB1	2.52	0.49
4:O:7:ASP:O	4:O:10:PHE:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:428:LYS:NZ	5:P:138:SER:OG	2.45	0.49
5:P:198:ILE:HD11	5:P:240:THR:HG23	1.94	0.49
5:P:77:THR:CA	5:P:80:PRO:HD2	2.42	0.49
1:B:213:GLN:O	1:B:217:ILE:HG13	2.13	0.49
1:B:23:PHE:CD2	1:B:211:LEU:HD22	2.48	0.49
1:B:54:THR:O	1:B:167:VAL:HB	2.12	0.49
2:C:24:GLU:O	2:C:27:ARG:HB3	2.13	0.49
2:C:283:ILE:HG22	2:C:284:ARG:HG3	1.93	0.49
2:C:580:MET:HB3	2:C:584:GLU:CD	2.33	0.49
2:C:651:LYS:HG3	2:C:652:GLY:N	2.28	0.49
2:C:691:SER:C	2:C:693:GLU:H	2.15	0.49
2:C:928:LYS:O	2:C:931:GLY:N	2.40	0.49
3:D:122:GLU:O	3:D:126:VAL:HG23	2.12	0.49
3:D:1281:VAL:HB	3:D:1316:GLY:H	1.78	0.49
3:D:695:ILE:O	3:D:696:HIS:C	2.50	0.49
3:D:89:ARG:HH11	3:D:89:ARG:HG2	1.77	0.49
3:D:890:VAL:HG12	3:D:926:LYS:HG2	1.94	0.49
3:D:965:GLU:HG3	3:D:969:ARG:NH2	2.27	0.49
5:F:161:GLN:CA	5:F:164:LYS:HE2	2.21	0.49
5:F:316:SER:OG	5:F:318:GLU:HG2	2.13	0.49
2:M:1099:VAL:HA	3:N:9:ARG:O	2.12	0.49
3:N:1422:MET:CE	3:N:1427:SER:HA	2.42	0.49
3:N:434:ARG:CD	3:N:434:ARG:H	2.24	0.49
3:N:434:ARG:H	3:N:434:ARG:HD3	1.77	0.49
3:N:790:TYR:HD2	3:N:906:GLN:O	1.95	0.49
3:N:911:LEU:O	3:N:912:LYS:C	2.50	0.49
1:A:182:GLU:OE2	2:C:935:GLY:N	2.43	0.49
2:C:148:PHE:CE1	2:C:309:TYR:HD2	2.31	0.49
2:C:751:PRO:CG	2:C:796:GLU:HA	2.42	0.49
2:C:841:ASN:ND2	2:C:845:ASN:H	2.03	0.49
2:C:840:ALA:HB2	2:C:846:LYS:HA	1.93	0.49
3:D:1107:VAL:HB	3:D:1219:GLU:H	1.77	0.49
3:D:112:ILE:O	3:D:116:LEU:HB2	2.13	0.49
3:D:119:SER:H	3:D:123:LEU:CD1	2.26	0.49
3:D:191:LEU:HD12	3:D:211:VAL:CG2	2.37	0.49
3:D:217:LYS:CE	3:D:389:GLU:HB3	2.42	0.49
3:D:465:LEU:HD13	3:D:509:PRO:O	2.12	0.49
3:D:716:PHE:CD1	3:D:716:PHE:N	2.80	0.49
3:D:860:LEU:HD22	3:D:878:GLY:HA2	1.95	0.49
5:F:154:LYS:O	5:F:158:GLU:CG	2.54	0.49
5:F:350:LEU:HD13	5:F:422:LEU:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1085:PHE:CD2	2:M:1088:LEU:HD23	2.47	0.49
2:M:167:LYS:C	2:M:169:GLY:N	2.65	0.49
2:M:259:GLY:HA2	2:M:290:LEU:O	2.13	0.49
2:M:336:VAL:HA	2:M:339:LEU:HB2	1.94	0.49
2:M:491:GLU:C	2:M:493:ARG:H	2.15	0.49
2:M:537:LYS:NZ	2:M:537:LYS:HB2	2.28	0.49
2:M:537:LYS:N	2:M:905:ILE:HD11	2.28	0.49
2:M:398:THR:CG2	2:M:635:THR:HG21	2.43	0.49
2:M:692:GLU:O	2:M:693:GLU:C	2.51	0.49
2:M:72:ARG:NH1	2:M:72:ARG:HG3	2.27	0.49
3:N:1007:VAL:HG23	3:N:1008:PHE:N	2.27	0.49
3:N:1128:VAL:O	3:N:1130:ARG:N	2.46	0.49
3:N:55:ASP:HB3	3:N:82:LYS:HE2	1.95	0.49
3:N:76:CYS:O	3:N:78:VAL:HG23	2.13	0.49
3:N:814:ALA:O	3:N:818:ARG:HG3	2.13	0.49
3:N:573:MET:CE	5:P:214:GLN:HG3	2.42	0.49
5:P:94:LEU:HD12	5:P:96:LEU:H	1.78	0.49
1:A:56:VAL:HG12	1:A:57:TYR:N	2.27	0.49
1:B:20:TYR:HE2	1:B:198:ARG:HB3	1.78	0.49
1:B:95:GLN:O	1:B:96:THR:HB	2.13	0.49
2:C:1030:GLN:HB2	3:D:626:SER:CB	2.43	0.49
2:C:1089:VAL:HB	2:C:1112:PHE:HZ	1.76	0.49
2:C:235:LEU:HD23	2:C:235:LEU:O	2.12	0.49
3:D:1062:ARG:HD3	3:D:1062:ARG:O	2.13	0.49
3:D:1277:ILE:HD11	3:D:1301:LYS:HB2	1.94	0.49
3:D:1426:LYS:HB2	3:D:1426:LYS:NZ	2.27	0.49
3:D:19:ARG:O	3:D:22:SER:N	2.35	0.49
3:D:486:ARG:HA	3:D:486:ARG:HE	1.78	0.49
2:M:415:PRO:CG	2:M:418:LEU:HD23	2.42	0.49
2:M:572:ILE:HG13	2:M:573:ARG:N	2.27	0.49
2:M:742:VAL:HG12	2:M:743:VAL:N	2.27	0.49
2:M:775:ARG:HH11	2:M:782:ALA:HB3	1.76	0.49
2:M:925:TYR:CD2	2:M:967:PHE:CE1	3.00	0.49
3:N:1086:LEU:HG	3:N:1090:ASP:OD2	2.12	0.49
3:N:739:ASP:O	3:N:743:ASP:OD2	2.31	0.49
3:N:862:ASP:O	3:N:876:SER:HB2	2.13	0.49
3:N:925:GLU:OE1	4:O:7:ASP:HB2	2.13	0.49
5:P:191:ASN:C	5:P:193:ARG:H	2.15	0.49
5:P:344:ALA:O	5:P:348:SER:HB3	2.13	0.49
5:P:416:ARG:NE	5:P:419:ARG:HD2	2.28	0.49
1:A:32:PHE:O	1:A:34:VAL:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:67:THR:HG21	2:C:609:ASN:CG	2.33	0.49
2:C:1058:ASP:OD1	2:C:1084:SER:OG	2.19	0.49
2:C:1102:LEU:HD13	3:D:9:ARG:CB	2.40	0.49
2:C:292:ARG:HD2	2:C:299:LYS:CD	2.43	0.49
2:C:496:ILE:O	2:C:515:ALA:CB	2.60	0.49
2:C:957:LYS:HG2	2:C:961:GLU:HB2	1.95	0.49
3:D:1096:ARG:HH11	3:D:1096:ARG:CB	2.26	0.49
3:D:228:ALA:O	3:D:231:VAL:HG22	2.13	0.49
3:D:703:ASN:ND2	3:D:704:ARG:H	2.08	0.49
1:K:58:ILE:HG21	1:K:68:ILE:HD11	1.95	0.49
1:L:101:LEU:HD12	1:L:113:ASP:C	2.33	0.49
2:M:101:ILE:HG22	2:M:102:HIS:N	2.28	0.49
2:M:708:TYR:N	2:M:708:TYR:CD1	2.80	0.49
2:M:715:THR:HG22	2:M:716:LYS:N	2.27	0.49
2:M:545:ASN:HA	2:M:905:ILE:HG21	1.95	0.49
3:N:1307:LYS:C	3:N:1309:ALA:H	2.16	0.49
3:N:131:LYS:HE2	3:N:456:MET:HE2	1.94	0.49
2:M:1030:GLN:H	3:N:626:SER:CB	2.26	0.49
2:M:680:ASP:OD2	3:N:943:THR:HG21	2.13	0.49
5:P:181:GLU:OE1	5:P:185:GLN:HG2	2.12	0.49
1:A:208:LEU:O	1:A:209:GLU:C	2.49	0.48
2:C:313:LEU:C	2:C:315:ALA:H	2.15	0.48
2:C:41:ASN:HD22	2:C:41:ASN:H	1.61	0.48
2:C:621:VAL:HG12	2:C:622:GLU:O	2.12	0.48
2:C:749:VAL:HG23	2:C:749:VAL:O	2.12	0.48
2:C:701:THR:CG2	2:C:832:LYS:HA	2.43	0.48
2:C:841:ASN:H	2:C:841:ASN:ND2	2.09	0.48
3:D:1151:ARG:O	3:D:1152:GLU:O	2.30	0.48
3:D:1228:SER:O	3:D:1232:PRO:HD2	2.12	0.48
3:D:795:VAL:CG1	3:D:796:ARG:H	2.26	0.48
3:D:853:VAL:HG11	3:D:860:LEU:HG	1.94	0.48
3:D:932:ASP:HA	3:D:935:LYS:HE2	1.94	0.48
1:L:101:LEU:HD22	1:L:140:MET:CE	2.43	0.48
2:M:1101:THR:HB	3:N:5:VAL:HG22	1.94	0.48
2:M:167:LYS:HZ3	2:M:168:ARG:HH21	1.61	0.48
2:M:18:LEU:HA	2:M:408:ARG:HH22	1.75	0.48
2:M:539:VAL:HG21	3:N:1067:VAL:CG1	2.42	0.48
2:M:544:THR:O	2:M:547:ILE:HG13	2.13	0.48
2:M:683:ASN:HA	2:M:687:ALA:HB3	1.94	0.48
2:M:728:HIS:O	2:M:729:LEU:HD22	2.13	0.48
3:N:1042:ARG:CG	3:N:1042:ARG:O	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1353:GLN:OE1	3:N:1353:GLN:HA	2.12	0.48
3:N:187:LYS:HZ1	3:N:212:ARG:HG3	1.78	0.48
3:N:557:LEU:O	3:N:562:ALA:HB2	2.13	0.48
3:N:804:LEU:HD12	3:N:831:GLY:HA3	1.95	0.48
3:N:834:THR:HB	3:N:838:ARG:HB2	1.94	0.48
1:A:41:ARG:NH1	1:A:177:VAL:O	2.45	0.48
2:C:8:ARG:HD3	2:C:10:ARG:NH1	2.28	0.48
2:C:1102:LEU:HD23	2:C:1106:ASP:CA	2.43	0.48
2:C:144:PRO:O	2:C:276:LYS:HG2	2.13	0.48
2:C:332:ARG:HG3	2:C:465:GLY:O	2.12	0.48
2:C:939:ARG:O	2:C:942:GLU:N	2.46	0.48
3:D:104:PHE:CE2	3:D:1448:THR:HG23	2.48	0.48
3:D:10:ILE:HG22	3:D:11:ALA:N	2.28	0.48
3:D:1263:PHE:O	3:D:1424:VAL:HG23	2.13	0.48
3:D:633:VAL:HG13	3:D:635:PRO:HD3	1.95	0.48
3:D:95:LEU:HD12	3:D:95:LEU:N	2.28	0.48
4:E:10:PHE:CZ	4:E:16:LYS:HG3	2.48	0.48
5:F:208:SER:O	5:F:212:LEU:HG	2.12	0.48
5:F:282:LEU:HD12	5:F:284:ARG:CB	2.42	0.48
1:K:143:ARG:NH2	1:K:145:ASP:OD2	2.46	0.48
1:K:202:ASP:OD2	1:K:203:GLY:N	2.45	0.48
2:M:1012:PRO:O	2:M:1013:TYR:CG	2.67	0.48
2:M:1092:LEU:N	2:M:1092:LEU:HD12	2.28	0.48
2:M:495:THR:N	2:M:530:GLU:OE1	2.43	0.48
2:M:677:MET:CE	2:M:983:ILE:HD12	2.43	0.48
3:N:127:LEU:HD22	3:N:134:VAL:CG2	2.43	0.48
3:N:177:ALA:HB1	3:N:199:LEU:CD2	2.42	0.48
2:M:987:ILE:HD12	3:N:948:THR:CG2	2.42	0.48
5:P:369:LEU:HB3	5:P:373:LYS:CD	2.43	0.48
5:P:406:ARG:HG2	5:P:409:LYS:CE	2.43	0.48
1:A:109:VAL:HG23	1:A:132:LEU:HD13	1.95	0.48
2:C:266:ARG:HD3	2:C:288:ARG:HH11	1.78	0.48
2:C:333:ILE:N	2:C:333:ILE:HD12	2.29	0.48
2:C:408:ARG:NH1	2:C:542:VAL:HG23	2.27	0.48
2:C:937:ASP:C	2:C:939:ARG:H	2.15	0.48
2:C:972:VAL:HG23	2:C:974:LEU:HD13	1.96	0.48
2:C:976:ASP:C	2:C:978:ARG:H	2.16	0.48
3:D:1357:ARG:C	3:D:1359:GLN:N	2.66	0.48
3:D:1484:THR:HG22	3:D:1485:GLN:H	1.76	0.48
3:D:218:LYS:HG3	3:D:370:ALA:HB1	1.94	0.48
3:D:180:LYS:HE2	3:D:219:GLU:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:444:VAL:HG22	3:D:444:VAL:O	2.13	0.48
4:E:26:ARG:NH2	4:E:39:VAL:HG13	2.29	0.48
1:K:91:ASN:CG	1:K:92:PRO:CD	2.82	0.48
1:L:99:LEU:HD21	1:L:114:PHE:HB3	1.95	0.48
1:L:137:ARG:HG2	1:L:137:ARG:NH1	2.28	0.48
2:M:1019:GLN:HE22	3:N:621:LYS:CA	2.26	0.48
2:M:15:LEU:HB3	2:M:16:PRO:HD2	1.95	0.48
2:M:227:PHE:C	2:M:229:MET:H	2.16	0.48
2:M:260:LEU:HA	2:M:291:ALA:HB2	1.95	0.48
2:M:535:SER:O	2:M:538:GLN:HG2	2.13	0.48
2:M:775:ARG:NH1	2:M:782:ALA:HB3	2.28	0.48
2:M:705:ILE:HG12	2:M:828:ALA:HB2	1.94	0.48
3:N:648:MET:O	3:N:652:LEU:HD22	2.13	0.48
3:N:661:MET:HE2	3:N:677:LEU:HD11	1.95	0.48
3:N:70:GLY:C	3:N:71:LYS:HD3	2.33	0.48
3:N:84:ILE:C	3:N:86:ARG:N	2.67	0.48
5:P:369:LEU:HA	5:P:372:ARG:HB2	1.96	0.48
1:A:147:GLY:HA3	1:A:171:PHE:CE2	2.49	0.48
1:B:153:ALA:O	1:B:156:HIS:HD2	1.97	0.48
2:C:1034:GLU:O	2:C:1037:VAL:N	2.46	0.48
2:C:200:LEU:HD13	2:C:300:ASP:CG	2.33	0.48
2:C:535:SER:H	2:C:538:GLN:HE21	1.61	0.48
2:C:758:ARG:HG2	2:C:759:THR:H	1.79	0.48
3:D:1120:VAL:HG23	3:D:1188:VAL:HG11	1.94	0.48
3:D:215:TYR:O	3:D:389:GLU:HA	2.14	0.48
3:D:582:LEU:O	3:D:603:LEU:HB2	2.13	0.48
5:F:136:LEU:CD1	5:F:137:GLY:N	2.76	0.48
5:F:78:SER:HB2	5:F:82:ARG:HH21	1.78	0.48
1:L:162:ILE:C	1:L:163:ASN:HD22	2.17	0.48
2:M:122:THR:HG22	2:M:123:GLU:N	2.28	0.48
2:M:151:ASP:H	2:M:158:TYR:HA	1.78	0.48
2:M:384:GLU:HG3	2:M:388:ARG:NE	2.28	0.48
2:M:561:GLY:O	2:M:564:MET:HB2	2.13	0.48
2:M:670:GLN:NE2	2:M:699:PHE:CG	2.81	0.48
3:N:1034:GLN:O	3:N:1038:LEU:CD1	2.62	0.48
3:N:1238:MET:CG	3:N:1239:ARG:N	2.76	0.48
3:N:371:ILE:C	3:N:371:ILE:HD12	2.34	0.48
3:N:622:ARG:HG2	3:N:622:ARG:HH11	1.77	0.48
3:N:658:LEU:HD13	3:N:674:ARG:HG2	1.94	0.48
3:N:858:VAL:CG1	3:N:859:ASP:H	2.22	0.48
5:P:90:GLN:O	5:P:90:GLN:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:LEU:HG	1:A:102:LYS:H	1.79	0.48
1:A:184:THR:CG2	1:A:192:LEU:HB2	2.43	0.48
1:A:227:ASN:O	1:A:227:ASN:ND2	2.46	0.48
2:C:254:VAL:HG22	2:C:258:TYR:CE1	2.48	0.48
2:C:345:ARG:HB3	2:C:345:ARG:NH1	2.28	0.48
2:C:545:ASN:HA	2:C:905:ILE:HD11	1.95	0.48
3:D:1264:GLU:CG	3:D:1266:ARG:CZ	2.83	0.48
3:D:1372:VAL:HG22	3:D:1375:MET:HE1	1.91	0.48
3:D:586:ARG:NH1	3:D:1444:THR:HG21	2.29	0.48
3:D:606:ILE:HA	3:D:613:ARG:HD2	1.95	0.48
3:D:1480:PHE:O	4:E:18:ARG:NH2	2.46	0.48
5:F:108:GLU:OE1	5:F:108:GLU:HA	2.13	0.48
5:F:234:LYS:HD2	5:F:236:SER:HB2	1.94	0.48
1:K:171:PHE:O	1:K:172:SER:C	2.52	0.48
1:L:180:GLN:O	1:L:196:THR:HG22	2.13	0.48
2:M:1097:LEU:HD23	3:N:10:ILE:CD1	2.30	0.48
2:M:165:LEU:HA	2:M:166:PRO:O	2.13	0.48
2:M:193:LEU:O	2:M:197:LEU:HG	2.13	0.48
2:M:130:ASN:ND2	2:M:383:ARG:HH21	2.08	0.48
2:M:691:SER:O	2:M:692:GLU:C	2.51	0.48
2:M:862:PRO:HA	2:M:975:TYR:CE1	2.48	0.48
3:N:12:LEU:H	3:N:507:ASN:ND2	2.12	0.48
3:N:28:LYS:HA	3:N:29:PRO:HD3	1.70	0.48
3:N:811:GLU:O	3:N:815:ALA:CB	2.61	0.48
3:N:23:TYR:CE2	3:N:89:ARG:HD3	2.49	0.48
3:N:97:THR:HG21	3:N:571:LYS:CD	2.40	0.48
4:O:5:GLY:HA3	4:O:8:LYS:HD2	1.95	0.48
5:P:288:TYR:HA	5:P:291:ILE:HG22	1.94	0.48
1:A:35:THR:HA	1:B:42:ARG:HD3	1.94	0.48
1:A:18:ARG:NH1	1:A:88:ARG:NE	2.50	0.48
1:B:132:LEU:HD11	1:B:138:LEU:HD13	1.94	0.48
2:C:115:LEU:HA	2:C:375:SER:OG	2.14	0.48
2:C:91:GLN:HB3	2:C:117:HIS:HB3	1.95	0.48
2:C:730:SER:O	2:C:734:LEU:HD23	2.13	0.48
2:C:774:LEU:HD13	2:C:774:LEU:C	2.33	0.48
2:C:704:HIS:HB3	2:C:831:ARG:NH1	2.29	0.48
2:C:835:VAL:HA	2:C:849:VAL:CG1	2.44	0.48
3:D:1314:LYS:HZ3	3:D:1317:ASP:CB	2.26	0.48
3:D:178:LEU:O	3:D:180:LYS:N	2.47	0.48
3:D:834:THR:HG22	3:D:838:ARG:CB	2.43	0.48
5:F:189:GLU:C	5:F:191:ASN:H	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:194:LEU:O	5:F:198:ILE:HG13	2.12	0.48
2:M:165:LEU:HD12	2:M:166:PRO:CA	2.41	0.48
2:M:208:ALA:HA	2:M:218:VAL:HG11	1.95	0.48
2:M:368:THR:CB	2:M:369:PRO:HD3	2.34	0.48
2:M:666:LEU:CG	2:M:668:LEU:HD11	2.44	0.48
2:M:83:CYS:O	2:M:86:LYS:O	2.31	0.48
3:N:168:THR:C	3:N:170:PRO:HD3	2.34	0.48
3:N:40:GLU:CG	3:N:41:ARG:H	2.26	0.48
3:N:657:LEU:HG	3:N:661:MET:HE3	1.94	0.48
3:N:808:THR:H	3:N:809:PRO:CD	2.27	0.48
4:O:31:LEU:O	4:O:34:GLY:O	2.32	0.48
1:A:189:ARG:HG2	1:A:190:THR:H	1.77	0.48
1:B:85:LEU:HD12	1:B:124:ASN:HB2	1.96	0.48
1:B:23:PHE:HZ	1:B:208:LEU:HA	1.77	0.48
1:B:82:LEU:C	1:B:84:GLU:H	2.16	0.48
2:C:196:LEU:HD23	2:C:196:LEU:C	2.34	0.48
2:C:602:GLU:CB	2:C:614:ARG:HB3	2.40	0.48
2:C:650:ARG:HD3	2:C:650:ARG:H	1.78	0.48
2:C:950:LEU:CB	2:C:952:LEU:HD23	2.41	0.48
3:D:116:LEU:CD2	3:D:468:LEU:HD11	2.43	0.48
3:D:1277:ILE:HB	3:D:1294:VAL:HG11	1.95	0.48
3:D:1314:LYS:O	3:D:1316:GLY:N	2.46	0.48
3:D:161:LEU:O	3:D:449:SER:CB	2.62	0.48
3:D:201:GLY:O	3:D:203:ALA:N	2.46	0.48
3:D:46:ASP:OD2	3:D:48:ARG:N	2.46	0.48
3:D:547:LEU:CD2	3:D:581:LEU:HD21	2.43	0.48
3:D:769:LEU:O	3:D:778:LEU:N	2.41	0.48
3:D:80:VAL:HG22	3:D:81:THR:N	2.28	0.48
3:D:845:ASN:O	3:D:848:GLU:HB2	2.14	0.48
3:D:996:TRP:CD1	3:D:1056:PRO:CG	2.96	0.48
5:F:418:LEU:O	5:F:419:ARG:C	2.52	0.48
5:F:416:ARG:CZ	5:F:419:ARG:HG2	2.44	0.48
1:K:26:GLU:CB	1:K:27:PRO:HA	2.44	0.48
1:L:55:SER:HB2	1:L:158:ILE:HB	1.96	0.48
2:M:1047:HIS:ND1	3:N:754:PHE:CG	2.82	0.48
2:M:1052:MET:CE	3:N:623:VAL:HG11	2.44	0.48
2:M:265:ARG:HG3	2:M:288:ARG:CD	2.43	0.48
2:M:957:LYS:HB2	2:M:962:GLN:HE21	1.77	0.48
3:N:438:ASP:HB3	3:N:443:VAL:HB	1.94	0.48
3:N:460:ALA:O	3:N:463:GLN:HB2	2.14	0.48
3:N:646:LYS:CA	3:N:720:LEU:HD22	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:340:SER:O	5:P:342:VAL:N	2.47	0.48
5:P:406:ARG:CG	5:P:409:LYS:HE2	2.42	0.48
2:C:154:ARG:O	2:C:156:GLY:N	2.46	0.48
2:C:227:PHE:C	2:C:229:MET:H	2.17	0.48
2:C:292:ARG:HD2	2:C:299:LYS:CE	2.43	0.48
2:C:537:LYS:CA	2:C:545:ASN:HD21	2.06	0.48
2:C:713:ARG:CB	2:C:713:ARG:HH11	2.27	0.48
2:C:906:PHE:CE1	3:D:1067:VAL:HA	2.48	0.48
2:C:918:LEU:CD2	2:C:968:LEU:O	2.62	0.48
3:D:1118:ILE:CG2	3:D:1188:VAL:HG13	2.43	0.48
3:D:1233:GLY:O	3:D:1235:GLN:N	2.47	0.48
3:D:124:GLU:C	3:D:126:VAL:N	2.67	0.48
3:D:10:ILE:HD11	3:D:1434:TRP:NE1	2.28	0.48
3:D:207:PHE:HB3	3:D:395:VAL:HG21	1.96	0.48
3:D:656:PHE:CE1	3:D:751:LEU:HD23	2.49	0.48
3:D:882:PHE:HA	3:D:885:ILE:HD12	1.95	0.48
3:D:754:PHE:HD1	4:E:24:ALA:HB1	1.78	0.48
5:F:82:ARG:HG2	5:F:86:HIS:NE2	2.29	0.48
1:K:156:HIS:HD2	1:K:157:GLY:N	2.11	0.48
1:K:69:PRO:O	1:K:71:VAL:HG23	2.13	0.48
1:L:209:GLU:O	1:L:212:ASN:HB2	2.14	0.48
2:M:1054:THR:HG22	2:M:1059:ASP:OD2	2.13	0.48
2:M:1067:TYR:CE1	3:N:655:PRO:HG3	2.48	0.48
2:M:411:SER:HA	2:M:452:ILE:HG22	1.96	0.48
2:M:517:ARG:O	2:M:518:LYS:C	2.49	0.48
2:M:723:THR:HG23	2:M:725:ASP:HB2	1.96	0.48
2:M:873:PRO:O	2:M:876:VAL:HG23	2.14	0.48
3:N:1066:THR:CG2	3:N:1069:GLU:HG3	2.44	0.48
3:N:1166:LEU:HA	3:N:1170:ASP:OD2	2.14	0.48
3:N:131:LYS:HG3	3:N:456:MET:HG3	1.96	0.48
3:N:14:SER:O	3:N:15:PRO:C	2.51	0.48
3:N:178:LEU:HA	3:N:199:LEU:HD13	1.96	0.48
3:N:29:PRO:CG	3:N:549:ASN:ND2	2.72	0.48
3:N:645:PRO:CG	3:N:724:GLN:O	2.62	0.48
3:N:819:GLY:O	3:N:822:ALA:HB3	2.14	0.48
3:N:974:ILE:HG22	3:N:974:ILE:O	2.13	0.48
3:N:385:VAL:CG1	5:P:96:LEU:HB3	2.44	0.48
2:C:1005:MET:O	2:C:1005:MET:HG2	2.14	0.48
2:C:102:HIS:C	2:C:104:ASP:N	2.66	0.48
2:C:398:THR:HA	2:C:633:GLN:HG3	1.95	0.48
2:C:670:GLN:HB2	2:C:700:TYR:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:780:GLU:C	2:C:782:ALA:H	2.17	0.48
3:D:1004:THR:O	3:D:1007:VAL:HG22	2.14	0.48
3:D:119:SER:C	3:D:121:THR:H	2.17	0.48
3:D:1229:ILE:HD11	3:D:1367:HIS:CB	2.40	0.48
3:D:1260:ILE:C	3:D:1262:LEU:N	2.67	0.48
3:D:808:THR:CB	3:D:809:PRO:CD	2.88	0.48
3:D:813:LEU:HD12	3:D:814:ALA:N	2.29	0.48
3:D:807:ALA:HB2	3:D:833:GLU:HB2	1.94	0.48
3:D:996:TRP:O	3:D:998:GLU:N	2.47	0.48
5:F:137:GLY:HA2	5:F:140:ARG:HH22	1.77	0.48
5:F:317:LEU:HD23	5:F:317:LEU:O	2.14	0.48
1:L:59:GLU:CG	1:L:60:ASP:H	2.18	0.48
2:M:1052:MET:HE3	3:N:623:VAL:CG2	2.35	0.48
2:M:1058:ASP:OD1	2:M:1084:SER:HB2	2.13	0.48
2:M:340:MET:C	2:M:340:MET:SD	2.93	0.48
2:M:348:LEU:N	2:M:348:LEU:HD12	2.28	0.48
2:M:139:GLN:HE21	2:M:414:GLY:HA3	1.75	0.48
2:M:139:GLN:NE2	2:M:415:PRO:CD	2.68	0.48
2:M:86:LYS:HB3	2:M:88:LEU:HG	1.95	0.48
2:M:91:GLN:OE1	2:M:117:HIS:HB3	2.13	0.48
3:N:1072:ILE:HG22	3:N:1073:SER:N	2.28	0.48
3:N:179:VAL:HG21	3:N:217:LYS:HZ3	1.78	0.48
2:M:1007:ALA:CB	3:N:648:MET:HG2	2.42	0.48
3:N:701:LEU:O	3:N:747:VAL:HA	2.13	0.48
3:N:989:TYR:CZ	3:N:993:LEU:HD11	2.49	0.48
5:P:88:ILE:HG21	5:P:193:ARG:HD2	1.96	0.48
5:P:307:THR:O	5:P:310:ILE:N	2.46	0.48
2:C:1021:LEU:CD2	5:F:332:PHE:HA	2.43	0.48
2:C:172:ILE:HG22	2:C:173:ASP:N	2.29	0.48
2:C:577:PRO:HG3	2:C:993:PHE:CZ	2.48	0.48
3:D:1197:ARG:HB2	3:D:1396:GLU:OE2	2.14	0.48
3:D:154:THR:CG2	3:D:155:ASP:N	2.77	0.48
3:D:568:ARG:O	3:D:569:ASN:C	2.52	0.48
3:D:687:VAL:O	3:D:690:ALA:HB3	2.14	0.48
5:F:291:ILE:HG23	5:F:292:ALA:N	2.29	0.48
2:M:352:ALA:CA	2:M:355:VAL:HG12	2.31	0.48
2:M:390:GLN:OE1	2:M:414:GLY:O	2.32	0.48
2:M:433:THR:CG2	2:M:488:ALA:HB1	2.44	0.48
2:M:497:ALA:HA	2:M:515:ALA:HA	1.95	0.48
2:M:660:ALA:HB1	2:M:667:ALA:O	2.14	0.48
2:M:516:ARG:NH2	3:N:1068:LEU:CB	2.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:127:LEU:HD13	3:N:457:GLY:H	1.79	0.48
3:N:585:GLY:C	3:N:587:ARG:H	2.17	0.48
4:O:40:LEU:CD2	4:O:67:GLU:HG2	2.36	0.48
5:P:143:HIS:O	5:P:147:LEU:HA	2.13	0.48
1:B:32:PHE:O	1:B:33:GLY:C	2.50	0.47
2:C:168:ARG:O	2:C:170:PRO:HD3	2.14	0.47
2:C:255:ALA:O	2:C:298:PHE:CE2	2.67	0.47
2:C:342:ASP:O	2:C:345:ARG:HG2	2.14	0.47
2:C:835:VAL:CG2	2:C:836:GLY:N	2.76	0.47
3:D:224:ARG:H	3:D:365:ASP:HB2	1.79	0.47
3:D:499:VAL:HG12	3:D:503:LEU:HD12	1.96	0.47
3:D:592:THR:O	3:D:593:ASN:C	2.51	0.47
3:D:676:MET:HE1	3:D:684:LYS:HG3	1.95	0.47
3:D:679:ARG:NH1	3:D:681:ARG:HD2	2.29	0.47
3:D:864:VAL:CG1	3:D:865:THR:N	2.77	0.47
5:F:158:GLU:CA	5:F:161:GLN:NE2	2.72	0.47
1:K:22:GLU:O	1:K:23:PHE:CG	2.67	0.47
2:M:1114:GLY:C	2:M:1116:ALA:H	2.16	0.47
2:M:396:ASP:OD1	2:M:402:SER:HB2	2.14	0.47
2:M:403:SER:O	2:M:406:HIS:N	2.47	0.47
2:M:724:ARG:O	2:M:724:ARG:CG	2.62	0.47
2:M:895:TYR:HA	2:M:991:GLN:NE2	2.29	0.47
3:N:1336:LEU:HB2	3:N:1344:VAL:HG21	1.96	0.47
3:N:1262:LEU:CD2	3:N:1351:GLU:HB3	2.40	0.47
3:N:396:VAL:HG22	3:N:447:VAL:HG12	1.96	0.47
5:P:105:LYS:HB3	5:P:105:LYS:NZ	2.29	0.47
2:C:115:LEU:N	2:C:115:LEU:HD23	2.17	0.47
2:C:268:ASP:H	2:C:272:ALA:HB2	1.78	0.47
2:C:415:PRO:HB2	2:C:418:LEU:HD23	1.96	0.47
2:C:449:ILE:O	2:C:451:LEU:N	2.45	0.47
2:C:458:TYR:HE1	2:C:537:LYS:HB2	1.80	0.47
3:D:1197:ARG:HD3	3:D:1396:GLU:HB2	1.95	0.47
3:D:385:VAL:HG22	3:D:385:VAL:O	2.13	0.47
3:D:646:LYS:CG	3:D:647:ARG:N	2.78	0.47
3:D:963:TYR:HD1	3:D:963:TYR:H	1.62	0.47
3:D:99:ALA:HA	3:D:575:GLN:HE22	1.80	0.47
3:D:385:VAL:CG2	5:F:97:GLU:HG2	2.44	0.47
2:M:188:LYS:HD3	2:M:189:ARG:H	1.77	0.47
2:M:408:ARG:O	2:M:408:ARG:HG3	2.14	0.47
2:M:555:ALA:O	2:M:556:ASN:C	2.53	0.47
2:M:754:ILE:HD13	2:M:791:ARG:HD2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:925:TYR:C	2:M:925:TYR:CD1	2.87	0.47
3:N:1269:LYS:HA	3:N:1269:LYS:HE2	1.96	0.47
3:N:502:PHE:HZ	3:N:1452:ILE:HD11	1.79	0.47
3:N:691:LEU:C	3:N:693:GLU:H	2.18	0.47
3:N:739:ASP:OD2	3:N:741:ASP:OD2	2.31	0.47
5:P:260:ILE:CD1	5:P:264:MET:HB3	2.43	0.47
5:P:405:LEU:C	5:P:405:LEU:HD23	2.34	0.47
1:A:182:GLU:O	1:A:183:ASP:O	2.32	0.47
2:C:16:PRO:O	2:C:18:LEU:N	2.47	0.47
2:C:403:SER:O	2:C:407:LYS:HE2	2.14	0.47
2:C:650:ARG:N	2:C:650:ARG:CD	2.75	0.47
2:C:676:ILE:O	2:C:676:ILE:HG23	2.15	0.47
2:C:691:SER:C	2:C:693:GLU:N	2.67	0.47
3:D:1145:TYR:HD2	3:D:1146:GLY:H	1.58	0.47
2:C:1050:GLN:HE21	3:D:1470:ARG:C	2.17	0.47
3:D:1086:LEU:CA	6:D:1525:STD:H32	2.36	0.47
3:D:159:ARG:CB	3:D:159:ARG:HH11	2.26	0.47
3:D:577:ALA:O	3:D:580:ALA:HB3	2.14	0.47
3:D:697:GLY:CA	4:E:59:ASN:OD1	2.62	0.47
5:F:302:LYS:HG3	5:F:303:ARG:N	2.30	0.47
1:K:189:ARG:HH12	1:L:155:LYS:HZ3	1.61	0.47
1:K:176:ARG:HG3	1:K:200:TRP:CE3	2.48	0.47
1:K:97:VAL:CG1	1:K:98:THR:N	2.76	0.47
1:L:124:ASN:N	1:L:125:PRO:HD3	2.29	0.47
2:M:170:PRO:CB	2:M:172:ILE:HD11	2.44	0.47
2:M:226:VAL:HG13	2:M:227:PHE:HD1	1.79	0.47
2:M:261:ILE:HG22	2:M:262:ALA:N	2.28	0.47
2:M:474:VAL:HG23	2:M:479:VAL:HA	1.95	0.47
2:M:722:ILE:O	2:M:722:ILE:HG12	2.14	0.47
3:N:1059:SER:HB2	3:N:1065:LEU:HD12	1.95	0.47
3:N:1231:GLU:C	3:N:1231:GLU:OE1	2.53	0.47
3:N:172:PRO:HA	3:N:173:PRO:HD3	1.68	0.47
3:N:473:LEU:HD12	3:N:476:GLU:OE2	2.13	0.47
3:N:18:ILE:HD12	3:N:518:PRO:CG	2.45	0.47
3:N:875:THR:HG22	3:N:879:ARG:CG	2.40	0.47
3:N:920:LEU:H	3:N:920:LEU:CD1	2.28	0.47
3:N:920:LEU:N	3:N:920:LEU:HD12	2.30	0.47
3:N:935:LYS:HG3	3:N:939:PHE:HE1	1.78	0.47
5:P:389:PHE:HD2	5:P:397:ILE:CD1	2.26	0.47
1:A:195:LEU:HD12	1:A:196:THR:H	1.80	0.47
2:C:1044:GLY:HA3	4:E:17:TYR:CE1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:95:TYR:HB2	2:C:113:VAL:H	1.79	0.47
2:C:480:THR:CG2	2:C:482:GLU:HB3	2.43	0.47
3:D:1412:LYS:C	3:D:1414:PRO:HD3	2.34	0.47
3:D:1493:LYS:O	3:D:1497:GLU:HG2	2.14	0.47
3:D:169:TYR:CG	3:D:169:TYR:O	2.66	0.47
3:D:175:VAL:O	3:D:179:VAL:HG21	2.14	0.47
3:D:470:LEU:HD12	3:D:508:ARG:NH2	2.30	0.47
3:D:704:ARG:NH1	3:D:738:ALA:HA	2.30	0.47
5:F:323:ASP:O	5:F:325:LYS:HG3	2.14	0.47
5:F:84:TYR:HB3	5:F:88:ILE:HD11	1.96	0.47
1:L:176:ARG:NH2	3:N:884:ARG:NE	2.62	0.47
2:M:1097:LEU:H	2:M:1097:LEU:CD1	2.23	0.47
2:M:17:PRO:O	2:M:20:GLU:HB3	2.14	0.47
2:M:565:GLN:C	2:M:567:GLN:N	2.64	0.47
2:M:610:ARG:HD2	2:M:622:GLU:HG3	1.97	0.47
2:M:736:ASP:O	2:M:738:ASP:N	2.44	0.47
3:N:105:VAL:HG22	3:N:112:ILE:CD1	2.44	0.47
3:N:477:LEU:HD11	3:N:495:ARG:HG2	1.97	0.47
3:N:547:LEU:HD11	3:N:578:VAL:HG22	1.96	0.47
3:N:552:ASN:O	3:N:553:ARG:C	2.52	0.47
3:N:757:ALA:O	3:N:761:ILE:N	2.46	0.47
3:N:82:LYS:O	3:N:84:ILE:N	2.47	0.47
3:N:868:TYR:HE1	3:N:869:MET:CE	2.27	0.47
3:N:902:LEU:HD12	3:N:903:ASP:N	2.29	0.47
3:N:455:ARG:HH22	5:P:140:ARG:CD	2.27	0.47
5:P:372:ARG:NE	5:P:388:ALA:HA	2.30	0.47
2:C:136:ILE:HD13	2:C:392:SER:OG	2.15	0.47
2:C:196:LEU:HA	2:C:199:VAL:CG2	2.43	0.47
2:C:692:GLU:HG2	2:C:692:GLU:O	2.14	0.47
2:C:872:ASN:OD1	2:C:873:PRO:CD	2.63	0.47
3:D:1251:ASP:OD1	3:D:1270:ALA:HB3	2.13	0.47
3:D:141:ILE:HG22	3:D:142:LEU:N	2.29	0.47
3:D:54:LYS:NZ	3:D:55:ASP:OD1	2.29	0.47
3:D:106:LYS:O	3:D:586:ARG:NH2	2.47	0.47
3:D:78:VAL:HG12	3:D:78:VAL:O	2.15	0.47
3:D:847:ASP:O	3:D:848:GLU:C	2.53	0.47
5:F:164:LYS:CA	5:F:171:LYS:NZ	2.78	0.47
1:K:175:ARG:HE	1:K:202:ASP:CA	2.21	0.47
1:K:1:MET:SD	1:K:5:LYS:HB3	2.54	0.47
1:K:205:VAL:HG23	1:K:206:THR:H	1.76	0.47
1:K:56:VAL:HG12	1:K:58:ILE:HG12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:223:THR:C	1:L:225:PHE:N	2.67	0.47
2:M:1036:GLU:OE1	2:M:1036:GLU:N	2.38	0.47
2:M:536:PRO:O	2:M:538:GLN:N	2.47	0.47
2:M:744:ARG:HG3	2:M:744:ARG:O	2.14	0.47
3:N:28:LYS:HG2	3:N:41:ARG:CD	2.43	0.47
3:N:367:ILE:HG12	3:N:368:VAL:N	2.28	0.47
3:N:387:LEU:N	3:N:387:LEU:HD22	2.29	0.47
3:N:212:ARG:HB3	3:N:394:LEU:HD13	1.95	0.47
3:N:38:LYS:HE2	3:N:39:PRO:HD2	1.95	0.47
3:N:416:ALA:H	3:N:417:PRO:HD2	1.79	0.47
3:N:481:MET:CE	3:N:1389:LEU:HD21	2.45	0.47
2:M:1019:GLN:HE22	3:N:621:LYS:HA	1.79	0.47
3:N:709:HIS:CD2	3:N:711:LEU:HB2	2.49	0.47
3:N:642:CYS:HB3	3:N:716:PHE:CG	2.48	0.47
3:N:750:PRO:HG2	3:N:756:GLN:OE1	2.15	0.47
3:N:74:GLU:O	3:N:75:ARG:NH2	2.48	0.47
3:N:52:PRO:HG3	3:N:81:THR:H	1.78	0.47
3:N:780:LYS:CD	3:N:912:LYS:HG3	2.45	0.47
3:N:25:GLU:HB2	3:N:92:HIS:CE1	2.49	0.47
5:P:171:LYS:HE3	5:P:175:HIS:NE2	2.29	0.47
5:P:214:GLN:HA	5:P:217:ASN:ND2	2.21	0.47
5:P:287:THR:HG23	5:P:290:GLU:HB2	1.96	0.47
2:C:1033:GLY:O	2:C:1037:VAL:HG23	2.14	0.47
2:C:1054:THR:HG22	2:C:1059:ASP:CB	2.29	0.47
2:C:1070:ILE:CD1	3:D:751:LEU:HD22	2.45	0.47
2:C:122:THR:HG22	2:C:123:GLU:N	2.30	0.47
2:C:148:PHE:CB	2:C:313:LEU:HD22	2.44	0.47
2:C:27:ARG:O	2:C:29:ALA:N	2.47	0.47
2:C:431:HIS:C	2:C:433:THR:N	2.66	0.47
2:C:577:PRO:HG3	2:C:993:PHE:CE2	2.50	0.47
3:D:1038:LEU:O	3:D:1060:SER:HB2	2.14	0.47
3:D:1102:THR:O	3:D:1103:HIS:C	2.52	0.47
3:D:1155:VAL:HG12	3:D:1156:LEU:N	2.29	0.47
3:D:385:VAL:HG22	5:F:97:GLU:HG2	1.95	0.47
3:D:474:GLU:O	3:D:478:LEU:HG	2.14	0.47
3:D:795:VAL:CG1	3:D:796:ARG:N	2.77	0.47
5:F:280:GLN:OE1	5:F:281:GLU:CB	2.56	0.47
5:F:372:ARG:HA	5:F:372:ARG:HD2	1.64	0.47
5:F:413:SER:O	5:F:416:ARG:HD3	2.15	0.47
1:K:85:LEU:HD11	1:K:87:VAL:CG1	2.45	0.47
1:L:6:LEU:HG	1:L:6:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1047:HIS:HE1	2:M:1078:GLU:OE2	1.98	0.47
2:M:365:ASP:O	2:M:367:LEU:HG	2.15	0.47
2:M:559:LEU:HD11	2:M:563:ASN:HD21	1.78	0.47
2:M:775:ARG:HH11	2:M:782:ALA:CB	2.28	0.47
2:M:80:GLN:O	2:M:83:CYS:N	2.47	0.47
2:M:889:HIS:CD2	2:M:970:GLY:HA3	2.49	0.47
3:N:1280:VAL:O	3:N:1294:VAL:HA	2.14	0.47
3:N:1440:PHE:HB2	3:N:1442:ASN:HD21	1.78	0.47
3:N:221:ALA:O	3:N:367:ILE:HG23	2.15	0.47
3:N:701:LEU:O	3:N:702:LEU:CD1	2.62	0.47
5:P:282:LEU:C	5:P:284:ARG:H	2.17	0.47
1:A:160:ASP:HB2	1:A:161:ARG:H	1.51	0.47
1:B:23:PHE:HE2	1:B:199:ILE:HD12	1.79	0.47
2:C:1047:HIS:O	2:C:1050:GLN:N	2.47	0.47
2:C:1081:VAL:HG12	2:C:1082:PRO:HD2	1.97	0.47
2:C:516:ARG:HH21	3:D:1068:LEU:HB3	1.75	0.47
3:D:431:VAL:O	3:D:431:VAL:HG22	2.14	0.47
3:D:840:LYS:HG2	3:D:841:TYR:CD2	2.50	0.47
3:D:918:ALA:HB1	3:D:922:LEU:HD12	1.97	0.47
5:F:287:THR:HG22	5:F:290:GLU:OE2	2.15	0.47
2:M:1060:ILE:O	2:M:1063:ARG:HG2	2.14	0.47
2:M:1064:ASN:HD21	5:P:344:ALA:HB1	1.79	0.47
2:M:711:GLU:OE1	2:M:713:ARG:NH2	2.48	0.47
2:M:854:PRO:HB3	2:M:856:GLU:OE2	2.13	0.47
2:M:925:TYR:HD2	2:M:967:PHE:CE1	2.33	0.47
2:M:577:PRO:HG3	2:M:993:PHE:CG	2.50	0.47
3:N:118:LEU:HA	3:N:123:LEU:HD13	1.97	0.47
3:N:1256:LEU:O	3:N:1259:VAL:N	2.46	0.47
3:N:168:THR:HG22	3:N:170:PRO:CD	2.44	0.47
3:N:424:GLY:CA	3:N:436:GLU:HA	2.44	0.47
3:N:613:ARG:HH11	3:N:613:ARG:HG3	1.80	0.47
4:O:45:ARG:O	4:O:47:LYS:HE3	2.15	0.47
4:O:45:ARG:HB3	4:O:46:PRO:CD	2.44	0.47
1:B:44:LEU:HD23	1:B:210:ALA:HB1	1.97	0.47
2:C:1012:PRO:O	2:C:1013:TYR:CG	2.68	0.47
2:C:1095:LEU:HB3	3:D:101:HIS:CE1	2.50	0.47
2:C:233:GLU:O	2:C:233:GLU:CD	2.53	0.47
2:C:352:ALA:O	2:C:356:ARG:HG3	2.15	0.47
2:C:468:ARG:HG2	2:C:487:THR:HA	1.96	0.47
1:A:67:THR:HG21	2:C:609:ASN:OD1	2.15	0.47
2:C:853:LEU:HB3	2:C:858:MET:HE3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:885:ILE:HG22	2:C:885:ILE:O	2.14	0.47
3:D:1148:VAL:HG11	3:D:1203:LYS:HD2	1.96	0.47
3:D:127:LEU:HD12	3:D:128:TYR:N	2.29	0.47
3:D:1331:ASP:OD2	3:D:1332:PRO:CD	2.62	0.47
3:D:374:GLU:N	3:D:374:GLU:CD	2.68	0.47
3:D:400:VAL:O	3:D:442:ASN:HB3	2.14	0.47
3:D:475:LYS:HA	3:D:478:LEU:CD1	2.44	0.47
3:D:601:ARG:HH22	3:D:611:GLN:HB2	1.77	0.47
3:D:87:ARG:HB3	3:D:523:ASP:HB3	1.94	0.47
5:F:153:PRO:O	5:F:156:VAL:CG2	2.62	0.47
5:F:234:LYS:HD3	5:F:235:PHE:N	2.29	0.47
1:K:110:LYS:C	1:K:112:ARG:H	2.18	0.47
1:L:25:LEU:HD23	1:L:28:LEU:HD11	1.97	0.47
2:M:1036:GLU:CD	2:M:1036:GLU:N	2.68	0.47
2:M:537:LYS:HZ2	2:M:537:LYS:HB2	1.79	0.47
3:N:1290:LEU:HD13	3:N:1309:ALA:O	2.14	0.47
3:N:396:VAL:HG12	3:N:397:LYS:N	2.29	0.47
3:N:477:LEU:HB2	3:N:496:LEU:HD13	1.97	0.47
3:N:938:GLY:O	3:N:942:SER:HB2	2.15	0.47
5:P:291:ILE:HG21	5:P:304:VAL:HG11	1.96	0.47
1:A:51:THR:HG22	1:A:146:ARG:HA	1.97	0.47
1:B:62:LEU:HA	1:B:163:ASN:HB3	1.96	0.47
2:C:1000:MET:HB2	2:C:1002:GLU:HG2	1.97	0.47
2:C:489:THR:C	2:C:491:GLU:H	2.18	0.47
2:C:852:ILE:HA	2:C:852:ILE:HD13	1.79	0.47
2:C:969:GLN:HE21	2:C:971:LYS:HE2	1.79	0.47
3:D:1114:THR:C	3:D:1116:ASN:H	2.17	0.47
3:D:1123:PHE:CD1	3:D:1134:LEU:HA	2.50	0.47
3:D:1211:MET:HB3	3:D:1213:ARG:NE	2.30	0.47
3:D:1462:LEU:HD22	3:D:1473:PRO:HD2	1.97	0.47
3:D:97:THR:CB	3:D:571:LYS:HD3	2.45	0.47
3:D:730:PRO:HA	3:D:733:CYS:SG	2.55	0.47
3:D:781:PRO:HB2	3:D:911:LEU:HD23	1.97	0.47
2:C:1086:ARG:NH1	3:D:88:TYR:HE1	2.13	0.47
3:D:573:MET:HE1	5:F:211:ASP:HA	1.96	0.47
5:F:359:SER:C	5:F:361:LEU:H	2.17	0.47
5:F:419:ARG:O	5:F:421:PHE:N	2.48	0.47
1:K:201:THR:CG2	1:K:202:ASP:N	2.77	0.47
1:K:225:PHE:CZ	1:L:25:LEU:HD22	2.48	0.47
1:K:39:PRO:HG3	1:L:39:PRO:HG2	1.97	0.47
1:L:107:LYS:CE	1:L:109:VAL:HG22	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:45:GLN:O	2:M:49:ARG:HG3	2.14	0.47
2:M:880:MET:HG2	3:N:1038:LEU:HD11	1.96	0.47
3:N:1280:VAL:HA	3:N:1317:ASP:O	2.15	0.47
3:N:1479:ASP:HA	3:N:1482:ARG:HB2	1.96	0.47
3:N:231:VAL:O	3:N:378:ILE:HG12	2.15	0.47
3:N:459:GLU:HG3	5:P:144:ILE:HD13	1.97	0.47
3:N:654:LYS:O	3:N:657:LEU:N	2.48	0.47
2:M:1048:THR:OG1	3:N:755:ALA:HA	2.14	0.47
3:N:789:LEU:O	3:N:793:THR:HG23	2.15	0.47
3:N:79:GLU:HG2	3:N:80:VAL:H	1.80	0.47
3:N:835:SER:O	3:N:836:VAL:C	2.52	0.47
5:P:136:LEU:HD13	5:P:141:VAL:HG11	1.96	0.47
5:P:289:GLU:CD	5:P:289:GLU:N	2.68	0.47
5:P:287:THR:HG22	5:P:290:GLU:HB2	1.97	0.47
1:A:162:ILE:HG13	1:A:163:ASN:ND2	2.30	0.47
1:A:219:ARG:NH1	1:A:219:ARG:CG	2.77	0.47
2:C:491:GLU:C	2:C:493:ARG:N	2.68	0.47
2:C:610:ARG:HH11	2:C:610:ARG:HG3	1.80	0.47
3:D:1370:ILE:O	3:D:1373:ARG:HG2	2.15	0.47
3:D:1472:ILE:HG22	3:D:1474:ALA:N	2.24	0.47
3:D:80:VAL:CG2	3:D:81:THR:N	2.78	0.47
5:F:93:LEU:HG	5:F:190:ALA:CB	2.45	0.47
1:K:111:ALA:HB2	1:K:127:LEU:HB3	1.96	0.47
2:M:1054:THR:CG2	2:M:1079:PRO:HB3	2.43	0.47
2:M:444:PRO:HG2	2:M:452:ILE:HG13	1.96	0.47
2:M:553:ASP:OD2	2:M:881:ASN:CA	2.63	0.47
2:M:64:LEU:HD13	2:M:359:MET:CG	2.45	0.47
2:M:723:THR:CG2	2:M:725:ASP:HB2	2.45	0.47
3:N:1258:ARG:HG3	3:N:1262:LEU:HD13	1.96	0.47
3:N:127:LEU:C	3:N:127:LEU:HD12	2.35	0.47
3:N:12:LEU:HD11	3:N:104:PHE:CE1	2.44	0.47
3:N:1393:GLN:HB2	3:N:1398:TRP:CZ2	2.50	0.47
3:N:178:LEU:N	3:N:199:LEU:HD13	2.29	0.47
3:N:564:GLU:N	3:N:564:GLU:CD	2.68	0.47
3:N:764:LEU:HD23	3:N:766:ALA:HB3	1.96	0.47
4:O:43:GLU:O	4:O:45:ARG:HG2	2.15	0.47
1:A:144:VAL:CG1	1:A:145:ASP:H	2.28	0.47
1:B:174:VAL:HA	1:B:200:TRP:O	2.15	0.47
1:B:217:ILE:O	1:B:221:HIS:CD2	2.68	0.47
2:C:1006:HIS:O	2:C:1007:ALA:HB2	2.15	0.47
2:C:433:THR:HG22	2:C:437:ARG:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:473:ARG:O	2:C:480:THR:OG1	2.33	0.47
1:A:72:LYS:O	2:C:608:GLY:HA2	2.14	0.47
2:C:677:MET:HE2	2:C:679:PHE:HD1	1.78	0.47
2:C:677:MET:HE2	2:C:679:PHE:CD1	2.50	0.47
3:D:1459:LEU:HD11	3:D:1468:LEU:HD12	1.97	0.47
3:D:237:LYS:HB3	3:D:238:PRO:HD3	1.96	0.47
3:D:991:GLN:O	3:D:994:GLN:HB3	2.15	0.47
4:E:68:LEU:O	4:E:68:LEU:HD12	2.14	0.47
1:K:150:TYR:HE2	1:K:152:PRO:CG	2.13	0.47
2:M:1043:TYR:CG	3:N:763:MET:HG3	2.50	0.47
2:M:690:ILE:HD12	2:M:694:LEU:HD13	1.97	0.47
3:N:1326:THR:HG22	3:N:1327:ARG:N	2.30	0.47
3:N:1418:LYS:O	3:N:1419:PRO:C	2.52	0.47
3:N:1474:ALA:O	3:N:1476:THR:N	2.48	0.47
3:N:877:PRO:O	3:N:880:ILE:N	2.48	0.47
5:P:274:THR:OG1	5:P:291:ILE:HD11	2.15	0.47
5:P:316:SER:C	5:P:318:GLU:N	2.67	0.47
3:N:601:ARG:HB3	5:P:318:GLU:OE1	2.15	0.47
5:P:322:GLY:O	5:P:324:GLU:N	2.47	0.47
1:A:227:ASN:H	1:A:227:ASN:HD22	1.61	0.46
1:B:88:ARG:HH11	1:B:88:ARG:HG2	1.79	0.46
2:C:1044:GLY:HA3	4:E:17:TYR:HE1	1.81	0.46
2:C:1056:LYS:HA	3:D:624:ASP:HB2	1.97	0.46
2:C:338:GLU:CA	2:C:341:THR:HG22	2.45	0.46
2:C:801:VAL:HG11	2:C:828:ALA:HB3	1.96	0.46
3:D:36:THR:HG22	3:D:38:LYS:HG3	1.97	0.46
3:D:400:VAL:CA	3:D:442:ASN:O	2.53	0.46
3:D:525:ARG:HG3	3:D:525:ARG:O	2.15	0.46
3:D:553:ARG:HB3	3:D:553:ARG:HH11	1.80	0.46
3:D:55:ASP:HA	3:D:82:LYS:CG	2.43	0.46
3:D:638:LYS:O	3:D:639:LEU:C	2.54	0.46
3:D:788:GLY:O	3:D:792:ILE:CG2	2.63	0.46
3:D:935:LYS:HG3	3:D:939:PHE:CE1	2.50	0.46
1:K:57:TYR:HB3	1:K:141:GLU:HB2	1.96	0.46
1:L:172:SER:C	1:L:174:VAL:H	2.18	0.46
1:L:180:GLN:HB2	1:L:196:THR:HG23	1.97	0.46
2:M:684:PHE:CG	2:M:685:GLU:N	2.81	0.46
2:M:728:HIS:C	2:M:729:LEU:HD22	2.35	0.46
2:M:927:GLY:HA2	2:M:930:LYS:HZ3	1.78	0.46
3:N:996:TRP:CE2	3:N:1056:PRO:HG2	2.50	0.46
3:N:1284:GLU:CG	3:N:1291:SER:HB2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1466:VAL:O	3:N:1469:GLY:N	2.48	0.46
3:N:376:GLU:HB3	3:N:384:VAL:HA	1.96	0.46
3:N:428:LYS:HE2	3:N:451:ASP:HB3	1.97	0.46
3:N:18:ILE:HD12	3:N:518:PRO:HG3	1.97	0.46
3:N:74:GLU:C	3:N:75:ARG:HE	2.17	0.46
3:N:806:PHE:HE1	3:N:813:LEU:HD23	1.80	0.46
3:N:81:THR:O	3:N:82:LYS:O	2.34	0.46
5:P:83:GLN:O	5:P:87:GLU:OE1	2.33	0.46
1:A:67:THR:CG2	2:C:609:ASN:OD1	2.63	0.46
1:B:106:PRO:HG3	1:B:134:GLU:CD	2.35	0.46
1:A:218:LEU:CD2	1:B:222:LEU:HD11	2.46	0.46
2:C:191:PHE:HE2	2:C:238:LEU:HD11	1.80	0.46
2:C:31:GLN:HB3	2:C:34:VAL:CG2	2.45	0.46
2:C:428:ARG:NH2	6:D:1525:STD:H292	2.30	0.46
2:C:579:VAL:HG13	2:C:842:ARG:HH22	1.79	0.46
2:C:606:VAL:O	2:C:606:VAL:HG23	2.15	0.46
2:C:736:ASP:C	2:C:738:ASP:N	2.68	0.46
2:C:874:LEU:HD21	3:D:787:LEU:HD22	1.96	0.46
3:D:1130:ARG:HA	3:D:1130:ARG:HD2	1.72	0.46
3:D:1155:VAL:HG11	3:D:1177:ALA:HB2	1.96	0.46
3:D:1207:TYR:HB3	3:D:1208:ASP:H	1.57	0.46
3:D:1262:LEU:HD21	3:D:1351:GLU:HG3	1.97	0.46
3:D:1274:ILE:HB	3:D:1275:SER:H	1.53	0.46
3:D:1344:VAL:HG11	3:D:1421:LEU:HD13	1.96	0.46
3:D:1377:LYS:O	3:D:1377:LYS:HG3	2.14	0.46
3:D:525:ARG:O	3:D:526:PRO:O	2.34	0.46
5:F:304:VAL:O	5:F:308:LEU:HG	2.15	0.46
1:K:213:GLN:O	1:K:217:ILE:HG13	2.15	0.46
1:K:43:ILE:HG21	1:K:217:ILE:HB	1.96	0.46
1:K:55:SER:HB3	1:K:143:ARG:HB2	1.97	0.46
1:L:95:GLN:HE21	1:L:95:GLN:HB2	1.46	0.46
2:M:285:LEU:HD11	2:M:302:VAL:CG2	2.39	0.46
2:M:479:VAL:HG21	2:M:503:LEU:HD11	1.96	0.46
2:M:48:PHE:O	2:M:49:ARG:C	2.54	0.46
3:N:1147:ARG:O	3:N:1166:LEU:CD2	2.64	0.46
3:N:1258:ARG:HA	3:N:1261:GLU:HB3	1.97	0.46
3:N:141:ILE:CG2	3:N:142:LEU:N	2.74	0.46
3:N:187:LYS:HE2	3:N:213:VAL:N	2.20	0.46
3:N:194:GLY:HA2	3:N:206:ARG:HA	1.97	0.46
3:N:416:ALA:N	3:N:417:PRO:CD	2.73	0.46
3:N:525:ARG:N	3:N:526:PRO:CD	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:870:GLY:O	3:N:871:LYS:HG3	2.15	0.46
2:C:226:VAL:HG13	2:C:227:PHE:H	1.80	0.46
2:C:278:GLU:O	2:C:279:GLU:C	2.53	0.46
2:C:395:LYS:HE2	2:C:403:SER:HB2	1.97	0.46
2:C:462:ASP:CG	2:C:463:GLU:N	2.67	0.46
2:C:589:ARG:CA	2:C:596:TYR:OH	2.64	0.46
2:C:89:THR:HG22	2:C:90:TYR:N	2.30	0.46
2:C:75:GLU:H	2:C:93:PRO:HG2	1.80	0.46
3:D:1153:VAL:HG12	3:D:1155:VAL:CG2	2.44	0.46
3:D:1197:ARG:HD2	3:D:1197:ARG:HA	1.54	0.46
3:D:1270:ALA:O	3:D:1271:LYS:C	2.54	0.46
3:D:130:SER:HG	3:D:132:TYR:HE1	1.55	0.46
3:D:25:GLU:OE1	3:D:25:GLU:O	2.32	0.46
2:C:1119:ARG:NH2	3:D:48:ARG:HG2	2.31	0.46
3:D:661:MET:SD	3:D:677:LEU:HD21	2.55	0.46
5:F:116:LEU:HD12	5:F:127:ILE:HG21	1.96	0.46
3:D:535:PHE:CD1	5:F:258:ILE:HD11	2.50	0.46
5:F:378:GLY:O	5:F:384:GLU:HG2	2.15	0.46
1:L:197:LEU:CD2	1:L:199:ILE:HG13	2.43	0.46
2:M:122:THR:O	2:M:123:GLU:C	2.53	0.46
2:M:170:PRO:HD2	2:M:263:ASP:HB3	1.98	0.46
2:M:455:LEU:O	2:M:456:ALA:O	2.33	0.46
2:M:674:VAL:HG11	2:M:992:MET:HE3	1.97	0.46
2:M:736:ASP:C	2:M:738:ASP:H	2.18	0.46
2:M:755:LEU:C	2:M:756:VAL:HG23	2.36	0.46
2:M:86:LYS:C	2:M:88:LEU:H	2.18	0.46
2:M:432:ARG:NH2	3:N:1047:LYS:HB3	2.29	0.46
3:N:1258:ARG:O	3:N:1262:LEU:HD13	2.15	0.46
3:N:1274:ILE:CG1	3:N:1334:GLN:HE21	2.27	0.46
3:N:1486:VAL:HG12	4:O:73:LEU:HD22	1.97	0.46
3:N:691:LEU:O	3:N:693:GLU:N	2.49	0.46
3:N:739:ASP:OD1	3:N:743:ASP:OD2	2.32	0.46
3:N:824:ASN:HB3	3:N:825:ALA:H	1.44	0.46
3:N:536:ALA:CB	5:P:315:VAL:HG12	2.42	0.46
5:P:395:GLU:O	5:P:398:ARG:HD2	2.15	0.46
1:A:86:VAL:HG13	1:A:124:ASN:HB2	1.98	0.46
1:A:158:ILE:HG22	1:A:159:LYS:N	2.31	0.46
1:B:111:ALA:HB3	1:B:124:ASN:O	2.15	0.46
1:B:205:VAL:HG23	1:B:205:VAL:O	2.15	0.46
2:C:1063:ARG:O	2:C:1066:ALA:HB3	2.16	0.46
2:C:1095:LEU:HD21	3:D:603:LEU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:508:ILE:CG2	2:C:513:VAL:HG21	2.43	0.46
2:C:517:ARG:O	2:C:518:LYS:C	2.54	0.46
3:D:1092:GLY:O	3:D:1095:THR:N	2.48	0.46
3:D:1152:GLU:OE1	3:D:1159:ARG:NH2	2.47	0.46
3:D:173:PRO:HD3	3:D:178:LEU:HD12	1.97	0.46
3:D:36:THR:C	3:D:38:LYS:H	2.19	0.46
3:D:41:ARG:HG3	3:D:42:ASP:N	2.30	0.46
3:D:601:ARG:HH22	3:D:611:GLN:CD	2.19	0.46
3:D:968:ASP:O	3:D:971:LEU:HB3	2.16	0.46
3:D:976:GLN:C	3:D:978:TYR:H	2.17	0.46
4:E:79:LEU:HG	4:E:80:VAL:HG23	1.98	0.46
5:F:137:GLY:CA	5:F:140:ARG:NH2	2.78	0.46
5:F:203:THR:O	5:F:205:ARG:N	2.49	0.46
1:L:62:LEU:H	1:L:62:LEU:HD12	1.80	0.46
2:M:124:ASP:HB2	2:M:407:LYS:NZ	2.30	0.46
2:M:212:GLY:HA3	2:M:218:VAL:CG2	2.46	0.46
2:M:445:GLU:OE1	2:M:560:MET:HE3	2.16	0.46
2:M:486:MET:HE3	2:M:491:GLU:HA	1.97	0.46
2:M:571:LEU:HD12	2:M:571:LEU:H	1.81	0.46
3:N:1097:LYS:HA	3:N:1100:ASP:OD2	2.15	0.46
3:N:1113:GLY:O	3:N:1114:THR:C	2.53	0.46
3:N:1146:GLY:N	3:N:1166:LEU:O	2.48	0.46
3:N:1119:SER:HA	3:N:1186:VAL:O	2.16	0.46
3:N:1238:MET:HG3	3:N:1239:ARG:N	2.30	0.46
3:N:1284:GLU:HB2	3:N:1291:SER:HB2	1.96	0.46
3:N:1434:TRP:HZ3	3:N:1457:ASP:N	2.12	0.46
3:N:32:ILE:CG2	3:N:37:LEU:HA	2.46	0.46
3:N:137:PRO:CG	3:N:453:ASP:HB3	2.45	0.46
3:N:500:ARG:O	3:N:504:ASP:N	2.38	0.46
3:N:939:PHE:HA	3:N:942:SER:CB	2.45	0.46
1:B:197:LEU:H	1:B:197:LEU:HD23	1.80	0.46
2:C:328:LEU:HD23	2:C:437:ARG:HD3	1.98	0.46
2:C:433:THR:O	2:C:437:ARG:HD2	2.16	0.46
2:C:470:PRO:O	2:C:534:VAL:HG23	2.15	0.46
2:C:572:ILE:CD1	2:C:701:THR:HB	2.46	0.46
2:C:718:GLY:HA3	2:C:761:PHE:CE1	2.50	0.46
2:C:799:ILE:O	2:C:801:VAL:HG13	2.16	0.46
3:D:1042:ARG:HG3	3:D:1042:ARG:O	2.16	0.46
3:D:423:ASP:O	3:D:424:GLY:C	2.54	0.46
3:D:567:ILE:O	3:D:571:LYS:NZ	2.45	0.46
3:D:676:MET:CE	3:D:684:LYS:H	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:755:ALA:O	3:D:756:GLN:C	2.54	0.46
3:D:835:SER:O	3:D:838:ARG:N	2.48	0.46
3:D:892:ASP:HB3	3:D:895:VAL:HG23	1.96	0.46
3:D:950:GLY:O	3:D:953:ASP:HB2	2.16	0.46
5:F:300:ASP:OD2	5:F:302:LYS:HG2	2.16	0.46
1:K:38:ASN:OD1	2:M:979:THR:O	2.34	0.46
2:M:1066:ALA:O	2:M:1067:TYR:C	2.52	0.46
2:M:499:ALA:C	2:M:501:THR:H	2.18	0.46
2:M:572:ILE:CD1	2:M:701:THR:HB	2.46	0.46
2:M:706:GLU:CG	2:M:707:ARG:H	2.28	0.46
2:M:71:TYR:CD2	2:M:71:TYR:N	2.82	0.46
2:M:874:LEU:C	2:M:876:VAL:H	2.18	0.46
3:N:1046:GLN:HE21	3:N:1046:GLN:HB2	1.60	0.46
3:N:1344:VAL:O	3:N:1347:TYR:HB3	2.16	0.46
3:N:140:ALA:O	3:N:141:ILE:O	2.33	0.46
3:N:217:LYS:HB2	3:N:218:LYS:H	1.52	0.46
3:N:240:GLU:C	3:N:242:LEU:H	2.19	0.46
3:N:790:TYR:O	3:N:791:TYR:C	2.54	0.46
3:N:939:PHE:HA	3:N:942:SER:HB2	1.95	0.46
4:O:63:TRP:O	4:O:65:MET:N	2.48	0.46
1:A:14:ARG:HH12	1:A:24:VAL:HG21	1.80	0.46
1:B:80:LEU:HG	3:D:844:ALA:HB2	1.97	0.46
2:C:1056:LYS:HB3	3:D:624:ASP:H	1.81	0.46
2:C:424:GLY:O	2:C:425:PHE:C	2.54	0.46
2:C:564:MET:O	2:C:567:GLN:N	2.44	0.46
2:C:625:LEU:HD13	2:C:641:PRO:HG3	1.97	0.46
2:C:679:PHE:CA	3:D:943:THR:HG22	2.44	0.46
3:D:1264:GLU:O	3:D:1266:ARG:CD	2.63	0.46
3:D:1380:GLU:HG2	3:D:1381:VAL:N	2.30	0.46
3:D:141:ILE:N	3:D:141:ILE:CD1	2.67	0.46
3:D:216:VAL:HG12	3:D:217:LYS:N	2.30	0.46
3:D:465:LEU:HD22	3:D:509:PRO:O	2.15	0.46
3:D:714:GLN:NE2	3:D:735:ALA:HB1	2.30	0.46
4:E:22:VAL:CG1	4:E:68:LEU:HD22	2.46	0.46
1:K:18:ARG:HH22	1:K:88:ARG:NH2	2.14	0.46
1:K:42:ARG:NH1	2:M:857:ASP:CB	2.73	0.46
1:K:48:ILE:HA	1:K:49:PRO:HD3	1.78	0.46
1:K:73:GLU:OE1	1:K:131:THR:N	2.49	0.46
1:L:14:ARG:HB2	1:L:22:GLU:HB2	1.97	0.46
2:M:174:LEU:HA	2:M:183:SER:O	2.15	0.46
2:M:212:GLY:HA3	2:M:218:VAL:HG21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:226:VAL:HG13	2:M:227:PHE:N	2.30	0.46
2:M:430:VAL:HG23	3:N:1078:ARG:CZ	2.46	0.46
2:M:507:ARG:CD	2:M:507:ARG:H	2.23	0.46
2:M:578:VAL:HG12	2:M:900:ARG:NH1	2.31	0.46
2:M:978:ARG:HG3	2:M:978:ARG:NH1	2.31	0.46
3:N:1237:THR:CG2	3:N:1238:MET:N	2.79	0.46
3:N:153:LEU:HD12	3:N:158:TYR:HB2	1.97	0.46
3:N:166:GLN:NE2	3:N:167:GLU:H	2.14	0.46
3:N:493:ARG:HB2	3:N:493:ARG:NH1	2.31	0.46
3:N:56:TYR:HA	3:N:80:VAL:CG2	2.45	0.46
3:N:660:LYS:HD2	3:N:663:GLU:OE2	2.15	0.46
3:N:76:CYS:SG	3:N:78:VAL:CG2	3.04	0.46
5:P:369:LEU:O	5:P:373:LYS:HD3	2.16	0.46
2:C:843:HIS:CD2	2:C:884:GLN:CA	2.97	0.46
2:C:928:LYS:HE3	2:C:928:LYS:HA	1.97	0.46
2:C:987:ILE:HG12	3:D:948:THR:HG23	1.98	0.46
3:D:1087:ARG:O	3:D:1091:SER:HB2	2.15	0.46
3:D:1341:PRO:O	3:D:1342:GLU:C	2.54	0.46
3:D:1457:ASP:O	3:D:1458:GLU:C	2.53	0.46
3:D:729:HIS:CG	3:D:730:PRO:HD2	2.50	0.46
3:D:820:GLU:HA	3:D:825:ALA:O	2.15	0.46
4:E:17:TYR:O	4:E:21:VAL:HG23	2.15	0.46
4:E:48:MET:N	4:E:54:LEU:HB2	2.31	0.46
3:D:426:LYS:CB	5:F:134:LYS:O	2.57	0.46
5:F:361:LEU:HD22	5:F:404:ALA:HB1	1.97	0.46
1:L:201:THR:HG23	1:L:207:PRO:HG3	1.98	0.46
2:M:223:ASP:O	2:M:225:SER:N	2.48	0.46
2:M:376:ARG:CB	2:M:377:PRO:HD3	2.36	0.46
2:M:553:ASP:HA	2:M:881:ASN:HA	1.96	0.46
3:N:404:GLU:CD	3:N:414:ARG:CZ	2.84	0.46
3:N:470:LEU:O	3:N:471:GLU:C	2.54	0.46
4:O:51:LEU:HD12	4:O:52:GLU:H	1.79	0.46
5:P:362:SER:O	5:P:363:GLU:C	2.54	0.46
1:A:13:VAL:CG1	1:A:14:ARG:H	2.29	0.46
2:C:485:TYR:HD1	2:C:485:TYR:H	1.64	0.46
2:C:611:ILE:HG13	2:C:625:LEU:HD11	1.96	0.46
2:C:672:VAL:HG22	2:C:868:ASP:OD2	2.16	0.46
2:C:68:PHE:HE1	2:C:96:ALA:HB1	1.80	0.46
2:C:751:PRO:HG2	2:C:795:GLY:O	2.16	0.46
2:C:918:LEU:O	2:C:921:ALA:HB3	2.15	0.46
3:D:182:GLY:O	3:D:183:GLU:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:237:LYS:H	3:D:238:PRO:CD	2.28	0.46
3:D:929:ARG:HH11	3:D:929:ARG:HG3	1.79	0.46
2:C:984:GLU:CG	3:D:944:THR:O	2.61	0.46
1:K:224:TYR:O	1:L:11:PHE:HB2	2.15	0.46
2:M:100:LEU:HB2	2:M:368:THR:HG23	1.98	0.46
2:M:679:PHE:C	2:M:681:GLY:N	2.68	0.46
2:M:897:LEU:HD13	2:M:921:ALA:HB2	1.97	0.46
3:N:1194:CYS:SG	3:N:1373:ARG:NH2	2.88	0.46
3:N:225:LEU:HB2	3:N:227:LEU:HD22	1.97	0.46
3:N:168:THR:HB	3:N:393:ILE:HG13	1.96	0.46
3:N:396:VAL:HG13	3:N:447:VAL:CA	2.43	0.46
2:M:750:LYS:HB2	3:N:681:ARG:HH21	1.80	0.46
4:O:46:PRO:HB2	4:O:54:LEU:HD22	1.97	0.46
5:P:288:TYR:O	5:P:291:ILE:HG22	2.16	0.46
5:P:400:ILE:O	5:P:404:ALA:HB3	2.15	0.46
1:A:54:THR:HG23	1:A:156:HIS:CD2	2.51	0.46
1:B:9:PRO:HB3	1:B:25:LEU:CG	2.44	0.46
2:C:20:GLU:OE2	2:C:460:ARG:HB3	2.15	0.46
2:C:240:THR:C	2:C:242:LEU:H	2.18	0.46
2:C:23:VAL:O	2:C:25:SER:N	2.49	0.46
2:C:589:ARG:HA	2:C:596:TYR:CZ	2.51	0.46
2:C:428:ARG:NH1	6:D:1525:STD:H141	2.31	0.46
3:D:223:LEU:HD13	3:D:223:LEU:H	1.81	0.46
3:D:400:VAL:C	3:D:402:PRO:HD3	2.36	0.46
3:D:433:GLY:H	3:D:448:GLU:CA	2.28	0.46
3:D:775:GLY:HA3	3:D:1145:TYR:HE1	1.81	0.46
3:D:858:VAL:HG11	3:D:864:VAL:CG2	2.46	0.46
3:D:974:ILE:HD13	3:D:991:GLN:CG	2.46	0.46
5:F:163:LEU:HB3	5:F:174:LEU:CD1	2.46	0.46
1:L:206:THR:CG2	1:L:209:GLU:OE2	2.64	0.46
2:M:1094:ALA:CB	3:N:520:LEU:HD13	2.46	0.46
2:M:430:VAL:HG12	2:M:430:VAL:O	2.15	0.46
2:M:471:TYR:CD1	2:M:486:MET:CE	2.98	0.46
2:M:627:ARG:NH1	2:M:627:ARG:HB3	2.31	0.46
2:M:762:LYS:HB2	2:M:762:LYS:NZ	2.31	0.46
1:K:181:VAL:CG1	2:M:938:LYS:HD2	2.46	0.46
3:N:1188:VAL:CG2	3:N:1189:ARG:N	2.79	0.46
3:N:1396:GLU:O	3:N:1400:VAL:HG23	2.16	0.46
3:N:237:LYS:CB	3:N:238:PRO:HD3	2.40	0.46
3:N:35:ARG:HB3	3:N:35:ARG:NH1	2.31	0.46
3:N:554:LEU:HD12	3:N:558:LEU:CD1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:685:ASP:O	3:N:686:GLU:C	2.52	0.46
3:N:633:VAL:HB	3:N:740:PHE:CE1	2.51	0.46
1:L:81:ASN:CG	3:N:867:ARG:HH12	2.19	0.46
3:N:96:ALA:HB3	3:N:554:LEU:HG	1.98	0.46
5:P:213:ILE:O	5:P:217:ASN:ND2	2.49	0.46
5:P:358:LEU:HD23	5:P:358:LEU:C	2.35	0.46
5:P:386:VAL:HG13	5:P:394:ARG:CG	2.45	0.46
5:P:406:ARG:CB	5:P:409:LYS:HE2	2.46	0.46
5:P:408:LEU:C	5:P:408:LEU:HD23	2.36	0.46
1:A:211:LEU:HD12	1:A:211:LEU:O	2.15	0.46
1:A:216:GLU:O	1:A:217:ILE:C	2.53	0.46
2:C:1008:ARG:HG2	2:C:1009:SER:H	1.81	0.46
2:C:1038:TRP:HA	2:C:1041:GLU:HB2	1.97	0.46
2:C:150:PRO:HA	2:C:158:TYR:HB3	1.97	0.46
2:C:637:LEU:N	2:C:637:LEU:HD12	2.31	0.46
2:C:838:LYS:C	2:C:839:LEU:HD23	2.36	0.46
2:C:683:ASN:HD22	2:C:872:ASN:HB2	1.80	0.46
2:C:920:GLN:HG2	2:C:920:GLN:O	2.14	0.46
3:D:1019:PRO:O	3:D:1020:LEU:C	2.53	0.46
3:D:1047:LYS:HB3	3:D:1048:PRO:HD2	1.98	0.46
3:D:1149:LEU:CD2	3:D:1166:LEU:HD21	2.46	0.46
3:D:1258:ARG:HH21	3:D:1351:GLU:HG2	1.81	0.46
3:D:1290:LEU:HD23	3:D:1291:SER:N	2.29	0.46
3:D:133:ILE:CG2	3:D:134:VAL:N	2.79	0.46
3:D:179:VAL:HG13	3:D:389:GLU:CG	2.44	0.46
3:D:211:VAL:HG13	3:D:393:ILE:HG22	1.97	0.46
3:D:97:THR:CG2	3:D:571:LYS:HD3	2.46	0.46
3:D:849:ALA:O	3:D:853:VAL:HG23	2.15	0.46
5:F:289:GLU:O	5:F:293:GLU:HG3	2.16	0.46
5:F:384:GLU:OE2	5:F:384:GLU:O	2.34	0.46
1:L:76:VAL:O	1:L:80:LEU:HB2	2.16	0.46
2:M:1042:ALA:HB1	3:N:710:ARG:HE	1.80	0.46
2:M:1119:ARG:NE	2:M:1119:ARG:HA	2.30	0.46
2:M:423:ALA:HA	6:M:1120:STD:H143	1.98	0.46
2:M:163:ILE:HA	2:M:164:PRO:HD3	1.72	0.46
2:M:227:PHE:HA	2:M:230:ARG:NE	2.30	0.46
2:M:230:ARG:HB2	2:M:233:GLU:CB	2.41	0.46
2:M:325:ILE:O	2:M:327:HIS:N	2.49	0.46
2:M:455:LEU:C	2:M:455:LEU:CD1	2.83	0.46
2:M:711:GLU:HB3	2:M:819:VAL:HG13	1.98	0.46
3:N:1096:ARG:O	3:N:1097:LYS:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1450:ALA:CA	3:N:1455:LYS:HG3	2.40	0.46
3:N:154:THR:HG22	3:N:155:ASP:N	2.29	0.46
3:N:166:GLN:H	3:N:395:VAL:HB	1.81	0.46
3:N:499:VAL:O	3:N:503:LEU:HB2	2.16	0.46
3:N:550:ARG:CZ	3:N:573:MET:HB3	2.46	0.46
3:N:638:LYS:O	3:N:640:HIS:N	2.49	0.46
3:N:647:ARG:NH1	3:N:680:GLN:OE1	2.48	0.46
4:O:41:GLU:HB3	4:O:42:PRO:HD3	1.97	0.46
3:N:422:ALA:HB1	5:P:178:ARG:NE	2.31	0.46
5:P:222:ARG:HD2	5:P:242:TRP:HE3	1.81	0.46
1:B:152:PRO:HD2	1:B:155:LYS:HB2	1.98	0.45
2:C:197:LEU:O	2:C:202:TYR:HB2	2.16	0.45
2:C:139:GLN:NE2	2:C:415:PRO:CD	2.76	0.45
2:C:571:LEU:N	2:C:571:LEU:HD12	2.31	0.45
2:C:602:GLU:HG2	2:C:646:GLY:HA2	1.98	0.45
2:C:939:ARG:HB3	2:C:982:PRO:HG2	1.97	0.45
3:D:1040:GLY:O	3:D:1041:LEU:HB3	2.15	0.45
3:D:1253:THR:CG2	3:D:1258:ARG:HB2	2.40	0.45
3:D:599:PRO:O	3:D:601:ARG:N	2.49	0.45
3:D:646:LYS:O	3:D:647:ARG:C	2.53	0.45
3:D:77:GLY:C	3:D:78:VAL:HG23	2.36	0.45
5:F:386:VAL:CG1	5:F:387:GLY:H	2.10	0.45
1:K:170:VAL:O	1:K:170:VAL:HG23	2.16	0.45
1:L:162:ILE:O	1:L:162:ILE:HG12	2.15	0.45
2:M:3:ILE:HD13	2:M:900:ARG:O	2.15	0.45
2:M:5:ARG:O	2:M:5:ARG:HG3	2.16	0.45
2:M:706:GLU:CG	2:M:707:ARG:N	2.79	0.45
2:M:73:LEU:HD21	2:M:118:ILE:HD11	1.98	0.45
3:N:1078:ARG:O	3:N:1079:LYS:C	2.54	0.45
3:N:1124:GLN:N	3:N:1133:ARG:O	2.41	0.45
3:N:1167:SER:O	3:N:1171:VAL:HG23	2.16	0.45
3:N:131:LYS:HE2	3:N:456:MET:CE	2.46	0.45
3:N:1324:PRO:CG	3:N:1330:ILE:HD11	2.45	0.45
3:N:481:MET:SD	3:N:1388:ARG:HG2	2.56	0.45
3:N:175:VAL:O	3:N:217:LYS:HE2	2.16	0.45
3:N:223:LEU:HD23	3:N:365:ASP:H	1.80	0.45
3:N:604:THR:O	3:N:607:LEU:N	2.37	0.45
5:P:140:ARG:HH11	5:P:140:ARG:HG3	1.82	0.45
5:P:289:GLU:H	5:P:289:GLU:CD	2.20	0.45
1:A:161:ARG:CG	1:A:161:ARG:NH1	2.77	0.45
1:A:34:VAL:HB	1:B:42:ARG:NE	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:27:PRO:CG	1:B:186:LEU:HD12	2.41	0.45
2:C:1095:LEU:C	2:C:1097:LEU:N	2.63	0.45
2:C:182:VAL:HG12	2:C:183:SER:H	1.82	0.45
2:C:185:LYS:CE	2:C:185:LYS:N	2.78	0.45
2:C:435:TYR:OH	2:C:498:GLN:NE2	2.42	0.45
2:C:448:ASN:HB3	2:C:452:ILE:HD13	1.97	0.45
2:C:470:PRO:HB2	2:C:534:VAL:HG21	1.99	0.45
2:C:700:TYR:CB	2:C:833:LEU:HD22	2.43	0.45
3:D:1010:ASN:OD1	3:D:1014:ASN:ND2	2.48	0.45
3:D:1066:THR:HG23	3:D:1069:GLU:OE1	2.15	0.45
3:D:1158:VAL:HG12	3:D:1160:LEU:HD23	1.98	0.45
3:D:1396:GLU:C	3:D:1398:TRP:N	2.66	0.45
3:D:1476:THR:O	3:D:1476:THR:CG2	2.63	0.45
3:D:29:PRO:HG2	3:D:549:ASN:ND2	2.31	0.45
3:D:375:GLU:HB3	3:D:385:VAL:HG11	1.97	0.45
3:D:139:GLY:HA2	3:D:452:ILE:HD12	1.97	0.45
3:D:598:ARG:HA	3:D:599:PRO:HD3	1.75	0.45
3:D:646:LYS:C	3:D:648:MET:N	2.69	0.45
2:C:1043:TYR:CZ	3:D:763:MET:HG3	2.51	0.45
3:D:787:LEU:HD21	3:D:947:ILE:HD11	1.98	0.45
5:F:131:VAL:O	5:F:135:ILE:HG12	2.16	0.45
5:F:263:HIS:C	5:F:265:VAL:H	2.20	0.45
1:K:97:VAL:CG1	1:K:99:LEU:HD12	2.46	0.45
1:L:42:ARG:NH1	1:L:42:ARG:HG2	2.31	0.45
2:M:1037:VAL:HG13	2:M:1049:LEU:HD11	1.97	0.45
2:M:415:PRO:HD2	2:M:418:LEU:HB2	1.98	0.45
2:M:474:VAL:O	2:M:474:VAL:HG13	2.16	0.45
2:M:499:ALA:O	2:M:501:THR:N	2.49	0.45
3:N:1116:ASN:N	3:N:1116:ASN:ND2	2.41	0.45
3:N:1116:ASN:O	3:N:1117:TYR:HB3	2.16	0.45
3:N:1214:PRO:O	3:N:1215:VAL:O	2.34	0.45
3:N:1274:ILE:HD11	3:N:1334:GLN:NE2	2.30	0.45
3:N:162:ARG:HG2	3:N:163:TYR:N	2.31	0.45
3:N:815:ALA:C	3:N:817:GLU:H	2.19	0.45
2:M:1018:GLN:CG	3:N:87:ARG:HH22	2.28	0.45
4:O:41:GLU:H	4:O:42:PRO:CD	2.28	0.45
5:P:181:GLU:O	5:P:184:ARG:HB3	2.16	0.45
2:C:54:ILE:O	2:C:54:ILE:HG23	2.16	0.45
2:C:678:PRO:HA	2:C:683:ASN:HD21	1.82	0.45
2:C:827:VAL:HG12	2:C:828:ALA:N	2.31	0.45
3:D:1036:ARG:HH21	3:D:1042:ARG:HA	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1133:ARG:HG2	3:D:1134:LEU:O	2.16	0.45
3:D:1260:ILE:O	3:D:1262:LEU:N	2.49	0.45
3:D:172:PRO:HA	3:D:173:PRO:HD3	1.73	0.45
3:D:223:LEU:CD1	3:D:365:ASP:H	2.28	0.45
3:D:396:VAL:HG13	3:D:447:VAL:N	2.31	0.45
3:D:158:TYR:CE1	3:D:454:ALA:HB3	2.51	0.45
3:D:508:ARG:HG2	3:D:508:ARG:HH11	1.81	0.45
3:D:612:GLY:O	3:D:615:ARG:HB2	2.15	0.45
3:D:674:ARG:CZ	5:F:342:VAL:HG11	2.46	0.45
3:D:939:PHE:O	3:D:943:THR:HG23	2.16	0.45
3:D:67:ARG:CB	5:F:375:LEU:HD11	2.45	0.45
1:K:132:LEU:N	1:K:132:LEU:CD1	2.79	0.45
1:K:188:GLN:HB2	1:K:188:GLN:HE21	1.60	0.45
2:M:18:LEU:O	2:M:21:ILE:HD13	2.16	0.45
2:M:307:LEU:HG	2:M:311:PHE:CE1	2.51	0.45
2:M:100:LEU:HD22	2:M:368:THR:OG1	2.17	0.45
2:M:404:LEU:HD12	2:M:404:LEU:HA	1.79	0.45
2:M:578:VAL:HG13	2:M:671:ASN:CB	2.46	0.45
2:M:807:ARG:HH11	2:M:807:ARG:HB2	1.81	0.45
2:M:948:GLU:OE2	2:M:955:PRO:HB3	2.17	0.45
3:N:1273:VAL:HG23	3:N:1325:LEU:HB2	1.98	0.45
3:N:1377:LYS:HE3	3:N:1394:VAL:HG13	1.97	0.45
3:N:1488:ASP:OD1	4:O:26:ARG:NH1	2.50	0.45
3:N:576:GLU:O	3:N:579:ASP:HB2	2.16	0.45
3:N:827:ILE:HA	3:N:836:VAL:CG1	2.46	0.45
3:N:97:THR:O	3:N:98:PRO:O	2.34	0.45
1:A:195:LEU:HD12	1:A:196:THR:N	2.30	0.45
2:C:140:ILE:HG21	2:C:331:ARG:HH12	1.81	0.45
2:C:252:LYS:HE2	2:C:296:GLY:CA	2.44	0.45
2:C:470:PRO:CB	2:C:534:VAL:HG21	2.47	0.45
2:C:9:ILE:HG12	2:C:907:ASP:OD2	2.16	0.45
3:D:1109:GLU:HG2	3:D:1202:GLN:N	2.31	0.45
3:D:1197:ARG:NH2	3:D:1377:LYS:HD2	2.32	0.45
3:D:1233:GLY:O	3:D:1236:LEU:HG	2.15	0.45
3:D:1488:ASP:HB3	4:E:39:VAL:CG1	2.42	0.45
3:D:19:ARG:O	3:D:20:SER:C	2.54	0.45
3:D:608:SER:HB3	3:D:1443:THR:OG1	2.17	0.45
3:D:993:LEU:O	3:D:994:GLN:C	2.53	0.45
3:D:561:GLY:HA3	5:F:184:ARG:NH2	2.30	0.45
1:K:38:ASN:O	1:K:39:PRO:C	2.55	0.45
1:K:37:GLY:O	1:K:40:LEU:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:100:LEU:HD12	1:L:100:LEU:N	2.31	0.45
1:L:132:LEU:HD22	1:L:138:LEU:HB2	1.95	0.45
2:M:114:PHE:CZ	5:P:283:GLY:C	2.89	0.45
2:M:345:ARG:C	2:M:347:GLY:N	2.68	0.45
2:M:376:ARG:HA	2:M:376:ARG:NE	2.31	0.45
1:K:150:TYR:CD1	2:M:696:LYS:HG2	2.51	0.45
2:M:824:ARG:HH11	2:M:824:ARG:HG2	1.80	0.45
3:N:1198:TYR:HE2	3:N:1377:LYS:NZ	2.14	0.45
3:N:1388:ARG:HG3	3:N:1389:LEU:CD2	2.41	0.45
3:N:55:ASP:HA	3:N:82:LYS:HG2	1.97	0.45
3:N:606:ILE:O	3:N:606:ILE:HG22	2.16	0.45
1:L:81:ASN:OD1	3:N:867:ARG:NH1	2.49	0.45
4:O:44:GLU:O	4:O:45:ARG:HD3	2.17	0.45
5:P:376:ILE:HG22	5:P:377:ASP:N	2.31	0.45
2:C:770:GLU:HG2	3:D:65:ARG:NH2	2.31	0.45
2:C:978:ARG:HE	2:C:978:ARG:HB2	1.47	0.45
3:D:1336:LEU:HA	3:D:1344:VAL:CG2	2.47	0.45
3:D:377:VAL:HG13	3:D:382:GLU:CG	2.41	0.45
3:D:455:ARG:C	3:D:456:MET:HE2	2.36	0.45
3:D:579:ASP:O	3:D:580:ALA:C	2.54	0.45
3:D:601:ARG:O	3:D:601:ARG:CG	2.63	0.45
3:D:761:ILE:O	3:D:767:HIS:CD2	2.69	0.45
3:D:840:LYS:CD	3:D:841:TYR:CZ	3.00	0.45
3:D:914:LEU:HD21	3:D:930:LEU:HD21	1.99	0.45
1:K:32:PHE:O	1:K:33:GLY:C	2.53	0.45
2:M:1064:ASN:HD21	5:P:344:ALA:CB	2.29	0.45
2:M:1086:ARG:O	2:M:1087:VAL:C	2.54	0.45
2:M:27:ARG:HB3	2:M:27:ARG:CZ	2.46	0.45
2:M:455:LEU:HD13	2:M:456:ALA:O	2.16	0.45
1:K:150:TYR:CE1	2:M:696:LYS:HA	2.51	0.45
2:M:958:THR:HG23	2:M:961:GLU:H	1.82	0.45
2:M:539:VAL:HG21	3:N:1067:VAL:HG11	1.98	0.45
3:N:1158:VAL:CG1	3:N:1159:ARG:N	2.80	0.45
3:N:1188:VAL:HG22	3:N:1189:ARG:N	2.31	0.45
3:N:1094:LEU:HD13	3:N:1260:ILE:HD13	1.97	0.45
3:N:1326:THR:HG22	3:N:1327:ARG:H	1.81	0.45
3:N:141:ILE:H	3:N:141:ILE:CD1	2.15	0.45
5:P:326:ASP:OD2	5:P:326:ASP:N	2.49	0.45
2:C:9:ILE:O	2:C:11:GLU:N	2.50	0.45
2:C:159:ILE:HG21	2:C:175:GLU:OE1	2.17	0.45
2:C:250:ARG:CZ	2:C:253:ALA:HB1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:643:VAL:HG13	2:C:647:GLN:CD	2.36	0.45
2:C:671:ASN:ND2	2:C:671:ASN:H	2.12	0.45
2:C:756:VAL:HG23	2:C:825:VAL:HG21	1.98	0.45
2:C:841:ASN:C	2:C:841:ASN:HD22	2.20	0.45
3:D:119:SER:H	3:D:123:LEU:HD13	1.82	0.45
3:D:1284:GLU:OE1	3:D:1284:GLU:HA	2.16	0.45
3:D:177:ALA:O	3:D:179:VAL:N	2.49	0.45
3:D:200:ASP:O	3:D:201:GLY:O	2.35	0.45
3:D:427:VAL:HG21	3:D:435:VAL:HB	1.97	0.45
3:D:81:THR:O	3:D:82:LYS:O	2.35	0.45
3:D:963:TYR:CD2	3:D:1002:LYS:HB3	2.51	0.45
5:F:113:ILE:HG23	5:F:127:ILE:CG2	2.47	0.45
5:F:94:LEU:HD12	5:F:97:GLU:N	2.31	0.45
1:L:15:THR:C	1:L:16:GLN:OE1	2.55	0.45
1:K:43:ILE:CD1	1:L:35:THR:HG21	2.43	0.45
2:M:1021:LEU:HG	2:M:1022:GLY:H	1.81	0.45
2:M:164:PRO:HD2	2:M:170:PRO:O	2.17	0.45
2:M:987:ILE:HG22	2:M:988:VAL:N	2.31	0.45
3:N:1066:THR:HG23	3:N:1069:GLU:CG	2.47	0.45
3:N:1451:ALA:O	3:N:1453:ALA:N	2.49	0.45
3:N:224:ARG:HD2	3:N:225:LEU:O	2.17	0.45
3:N:128:TYR:CE1	3:N:461:ILE:HG13	2.52	0.45
3:N:604:THR:O	3:N:606:ILE:N	2.50	0.45
5:P:403:LYS:O	5:P:407:LYS:HG2	2.17	0.45
1:A:224:TYR:CG	1:B:9:PRO:HG2	2.52	0.45
2:C:185:LYS:H	2:C:185:LYS:CE	2.29	0.45
2:C:232:GLU:O	2:C:232:GLU:HG2	2.17	0.45
2:C:334:ARG:HB3	2:C:338:GLU:OE2	2.16	0.45
2:C:35:PRO:C	2:C:37:GLU:H	2.20	0.45
2:C:482:GLU:OE2	2:C:484:VAL:HG23	2.16	0.45
2:C:513:VAL:O	2:C:524:VAL:HG12	2.17	0.45
2:C:599:GLU:CG	2:C:600:ASP:N	2.79	0.45
2:C:742:VAL:CG1	2:C:743:VAL:N	2.79	0.45
2:C:911:GLU:OE1	3:D:1062:ARG:NH2	2.45	0.45
2:C:9:ILE:HD11	2:C:907:ASP:HB3	1.99	0.45
3:D:558:LEU:O	3:D:561:GLY:O	2.34	0.45
3:D:609:GLY:C	3:D:611:GLN:H	2.20	0.45
3:D:95:LEU:H	3:D:95:LEU:HD12	1.80	0.45
1:K:80:LEU:HD12	1:K:83:LYS:HD3	1.97	0.45
2:M:229:MET:C	2:M:230:ARG:HD3	2.37	0.45
2:M:384:GLU:HG2	2:M:384:GLU:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:611:ILE:HD11	2:M:641:PRO:HB3	1.99	0.45
2:M:854:PRO:HB3	2:M:856:GLU:CD	2.37	0.45
2:M:927:GLY:HA2	2:M:930:LYS:HZ1	1.81	0.45
3:N:1062:ARG:O	3:N:1062:ARG:HD3	2.16	0.45
3:N:1122:LEU:HD23	3:N:1178:ALA:HB2	1.98	0.45
3:N:1296:SER:OG	3:N:1297:GLU:N	2.49	0.45
3:N:129:PHE:O	3:N:572:ARG:HG3	2.17	0.45
3:N:1382:THR:OG1	3:N:1416:ALA:HB3	2.17	0.45
3:N:237:LYS:HB3	3:N:238:PRO:CD	2.39	0.45
3:N:59:ALA:HB3	3:N:78:VAL:CG2	2.44	0.45
3:N:653:PHE:CD1	3:N:653:PHE:N	2.84	0.45
3:N:710:ARG:C	3:N:712:GLY:N	2.70	0.45
3:N:75:ARG:N	3:N:75:ARG:HE	2.15	0.45
5:P:261:PRO:O	5:P:264:MET:HB2	2.17	0.45
5:P:400:ILE:HG23	5:P:404:ALA:CB	2.47	0.45
1:A:68:ILE:HB	1:A:71:VAL:HB	1.99	0.45
2:C:188:LYS:HD3	2:C:189:ARG:N	2.32	0.45
2:C:222:MET:O	2:C:223:ASP:C	2.56	0.45
2:C:490:GLU:HG3	2:C:493:ARG:CZ	2.47	0.45
2:C:551:GLU:HG2	2:C:905:ILE:O	2.17	0.45
2:C:601:GLY:HA2	2:C:616:GLU:HG2	1.99	0.45
2:C:705:ILE:HD12	2:C:705:ILE:N	2.31	0.45
2:C:923:GLU:O	2:C:925:TYR:N	2.49	0.45
3:D:1129:THR:CG2	3:D:1130:ARG:H	2.05	0.45
3:D:119:SER:C	3:D:121:THR:N	2.69	0.45
3:D:1281:VAL:HG12	3:D:1315:ASP:HA	1.98	0.45
3:D:661:MET:HE2	3:D:673:ALA:HB1	1.97	0.45
3:D:676:MET:HE3	3:D:684:LYS:H	1.82	0.45
3:D:888:GLU:O	3:D:889:ALA:C	2.54	0.45
4:E:26:ARG:NH2	4:E:38:THR:HA	2.31	0.45
5:F:158:GLU:HA	5:F:161:GLN:CD	2.37	0.45
3:D:536:ALA:HA	5:F:315:VAL:O	2.17	0.45
1:K:129:ILE:O	1:K:130:ALA:HB2	2.17	0.45
1:K:33:GLY:HA3	1:K:181:VAL:HG22	1.99	0.45
1:K:88:ARG:HD2	1:K:121:GLU:OE1	2.17	0.45
3:N:1109:GLU:OE1	3:N:1111:ASP:N	2.50	0.45
3:N:1336:LEU:HD22	3:N:1421:LEU:HB2	1.99	0.45
3:N:54:LYS:HD3	3:N:57:GLU:HB2	1.99	0.45
3:N:623:VAL:HG12	3:N:625:TYR:H	1.82	0.45
3:N:691:LEU:C	3:N:693:GLU:N	2.69	0.45
3:N:825:ALA:HA	3:N:826:PRO:HD3	1.74	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:838:ARG:HE	3:N:874:GLU:CD	2.20	0.45
5:P:349:LEU:O	5:P:353:GLU:HB2	2.16	0.45
5:P:419:ARG:O	5:P:421:PHE:N	2.49	0.45
1:B:215:VAL:HG23	1:B:216:GLU:N	2.32	0.45
2:C:325:ILE:HG22	2:C:325:ILE:O	2.17	0.45
2:C:607:ASP:CB	2:C:610:ARG:H	2.30	0.45
2:C:643:VAL:HG23	2:C:655:LEU:HA	1.98	0.45
3:D:217:LYS:HE3	3:D:388:HIS:C	2.37	0.45
3:D:371:ILE:HD12	3:D:371:ILE:C	2.36	0.45
3:D:72:VAL:HG12	3:D:73:CYS:O	2.17	0.45
3:D:806:PHE:HD1	3:D:812:ALA:CB	2.28	0.45
3:D:868:TYR:O	3:D:869:MET:C	2.52	0.45
5:F:78:SER:HB2	5:F:82:ARG:NH2	2.32	0.45
1:K:117:VAL:HG12	1:K:118:ALA:N	2.32	0.45
1:K:82:LEU:C	1:K:84:GLU:H	2.20	0.45
1:L:30:ARG:HH22	2:M:692:GLU:CD	2.18	0.45
1:L:3:ASP:CG	1:L:4:SER:N	2.70	0.45
1:L:82:LEU:O	1:L:85:LEU:HB3	2.17	0.45
2:M:15:LEU:HD21	2:M:583:LEU:CD2	2.47	0.45
2:M:413:LEU:HD12	2:M:451:LEU:HD22	1.99	0.45
2:M:42:VAL:HG12	2:M:43:GLY:N	2.32	0.45
2:M:572:ILE:HG13	2:M:573:ARG:H	1.82	0.45
2:M:724:ARG:HG2	2:M:724:ARG:O	2.17	0.45
1:K:42:ARG:NH1	2:M:978:ARG:HA	2.32	0.45
3:N:1271:LYS:CE	3:N:1334:GLN:HE22	2.30	0.45
3:N:1271:LYS:CE	3:N:1334:GLN:NE2	2.79	0.45
3:N:1447:LEU:O	3:N:1448:THR:C	2.55	0.45
3:N:150:ARG:NH1	3:N:464:LEU:HD22	2.32	0.45
3:N:598:ARG:HG2	3:N:599:PRO:O	2.17	0.45
3:N:702:LEU:HD22	3:N:716:PHE:CE1	2.52	0.45
5:P:139:ALA:HB1	5:P:152:ASP:HB3	1.96	0.45
1:B:78:ILE:C	1:B:80:LEU:N	2.71	0.45
2:C:697:ARG:O	2:C:698:ASP:C	2.53	0.45
3:D:1145:TYR:C	3:D:1145:TYR:CD2	2.89	0.45
3:D:1333:HIS:O	3:D:1336:LEU:HB3	2.17	0.45
3:D:217:LYS:HE3	3:D:389:GLU:HB3	1.99	0.45
3:D:616:GLN:HA	3:D:619:LEU:HD22	1.99	0.45
1:K:178:ALA:HB2	2:M:864:GLY:HA2	1.99	0.45
1:L:32:PHE:C	1:L:34:VAL:N	2.67	0.45
2:M:1014:SER:CB	2:M:1017:THR:HG23	2.47	0.45
2:M:1109:VAL:HG11	3:N:3:LYS:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:439:CYS:HA	2:M:440:PRO:HD3	1.74	0.45
2:M:501:THR:CB	2:M:513:VAL:HG11	2.46	0.45
2:M:514:VAL:HG11	2:M:516:ARG:CZ	2.47	0.45
2:M:693:GLU:O	2:M:696:LYS:HB2	2.17	0.45
2:M:697:ARG:O	2:M:699:PHE:N	2.46	0.45
3:N:1047:LYS:HB3	3:N:1048:PRO:CD	2.47	0.45
3:N:1290:LEU:HD12	3:N:1305:LEU:O	2.17	0.45
3:N:1440:PHE:HB2	3:N:1442:ASN:ND2	2.32	0.45
3:N:225:LEU:C	3:N:227:LEU:HD22	2.37	0.45
3:N:592:THR:N	3:N:600:LEU:HD21	2.32	0.45
3:N:776:GLU:HA	3:N:777:PRO:HD3	1.86	0.45
3:N:781:PRO:HB2	3:N:911:LEU:CD2	2.32	0.45
3:N:868:TYR:HE1	3:N:869:MET:HE2	1.81	0.45
5:P:114:LYS:O	5:P:116:LEU:N	2.50	0.45
5:P:202:TYR:OH	5:P:244:ARG:HG2	2.16	0.45
5:P:77:THR:HA	5:P:80:PRO:HD2	1.99	0.45
1:B:220:GLU:O	1:B:223:THR:HG22	2.17	0.44
2:C:1034:GLU:HG3	2:C:1035:MET:H	1.82	0.44
2:C:1088:LEU:HG	3:D:607:LEU:CD2	2.47	0.44
2:C:603:VAL:HG23	2:C:647:GLN:O	2.17	0.44
2:C:736:ASP:OD1	2:C:747:ALA:HB1	2.16	0.44
2:C:708:TYR:HE2	2:C:793:PRO:CD	2.29	0.44
2:C:940:GLU:O	2:C:944:LEU:HD12	2.17	0.44
3:D:1076:GLY:O	3:D:1079:LYS:HG2	2.17	0.44
3:D:1117:TYR:HE2	3:D:1151:ARG:NH1	2.15	0.44
3:D:475:LYS:HG2	3:D:478:LEU:HD12	1.99	0.44
3:D:50:PHE:CG	3:D:522:PRO:CG	3.00	0.44
3:D:647:ARG:HD2	3:D:680:GLN:HE22	1.82	0.44
3:D:687:VAL:O	3:D:690:ALA:N	2.49	0.44
3:D:785:ILE:HG13	3:D:939:PHE:CE2	2.52	0.44
3:D:959:GLU:HB2	3:D:963:TYR:HE1	1.80	0.44
5:F:419:ARG:HH11	5:F:419:ARG:CG	2.29	0.44
2:M:94:LEU:O	2:M:114:PHE:HA	2.17	0.44
2:M:358:ARG:HH22	2:M:374:ASN:CG	2.20	0.44
2:M:534:VAL:HG23	2:M:538:GLN:NE2	2.31	0.44
2:M:706:GLU:N	2:M:827:VAL:O	2.51	0.44
3:N:1043:GLY:O	3:N:1056:PRO:CA	2.65	0.44
3:N:1090:ASP:O	3:N:1091:SER:C	2.54	0.44
3:N:119:SER:C	3:N:121:THR:N	2.71	0.44
3:N:1281:VAL:HG11	3:N:1314:LYS:O	2.17	0.44
3:N:1365:ASP:O	3:N:1366:LYS:C	2.55	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:214:GLU:HG2	3:N:215:TYR:CD1	2.53	0.44
3:N:162:ARG:HA	3:N:434:ARG:HH21	1.81	0.44
3:N:428:LYS:HD3	3:N:451:ASP:HB3	1.99	0.44
3:N:913:ASP:O	3:N:914:LEU:C	2.55	0.44
1:A:224:TYR:CD1	1:B:9:PRO:HD2	2.53	0.44
2:C:625:LEU:O	2:C:626:ARG:C	2.55	0.44
2:C:742:VAL:CG1	2:C:743:VAL:H	2.25	0.44
2:C:769:PRO:O	2:C:772:ARG:N	2.49	0.44
2:C:787:ASP:CG	2:C:791:ARG:HH21	2.20	0.44
2:C:853:LEU:HA	2:C:854:PRO:HD3	1.87	0.44
2:C:551:GLU:OE1	2:C:906:PHE:HA	2.18	0.44
3:D:1049:SER:OG	3:D:1051:GLU:HG2	2.16	0.44
3:D:1055:VAL:HA	3:D:1056:PRO:HD3	1.83	0.44
3:D:136:ASP:HB3	3:D:137:PRO:HD3	1.90	0.44
3:D:656:PHE:HE1	3:D:751:LEU:CD2	2.30	0.44
3:D:78:VAL:HG12	3:D:79:GLU:O	2.17	0.44
5:F:415:THR:HG22	5:F:417:LYS:HE3	1.99	0.44
2:M:135:VAL:HG23	2:M:395:LYS:HA	1.98	0.44
2:M:706:GLU:HG3	2:M:707:ARG:N	2.31	0.44
2:M:799:ILE:O	2:M:801:VAL:HG13	2.16	0.44
2:M:837:ASP:OD2	2:M:999:HIS:CE1	2.70	0.44
2:M:877:PRO:O	2:M:879:ARG:O	2.35	0.44
3:N:1102:THR:O	3:N:1102:THR:HG22	2.18	0.44
3:N:421:LEU:HD11	3:N:437:VAL:HG21	1.97	0.44
3:N:46:ASP:OD2	3:N:48:ARG:HB3	2.17	0.44
3:N:570:GLU:O	3:N:573:MET:N	2.50	0.44
3:N:783:ARG:NH1	3:N:1029:ARG:CZ	2.80	0.44
2:M:984:GLU:HG3	3:N:944:THR:O	2.17	0.44
4:O:16:LYS:O	4:O:18:ARG:N	2.50	0.44
1:A:82:LEU:C	1:A:84:GLU:H	2.21	0.44
1:A:90:LEU:HD12	1:A:119:ASP:CA	2.34	0.44
1:B:106:PRO:HD3	1:B:134:GLU:OE2	2.17	0.44
1:B:23:PHE:O	1:B:197:LEU:HD23	2.17	0.44
2:C:41:ASN:HA	2:C:45:GLN:HG2	1.99	0.44
2:C:631:SER:O	2:C:632:ASN:C	2.56	0.44
2:C:853:LEU:HD23	2:C:858:MET:HB3	1.98	0.44
3:D:10:ILE:HG13	3:D:1434:TRP:CE2	2.52	0.44
3:D:131:LYS:HD3	5:F:83:GLN:CD	2.38	0.44
3:D:10:ILE:HD11	3:D:1434:TRP:CE2	2.53	0.44
3:D:1198:TYR:CE1	3:D:1460:ILE:HD13	2.52	0.44
3:D:1461:GLY:O	3:D:1473:PRO:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:511:TRP:N	3:D:511:TRP:CE3	2.86	0.44
3:D:89:ARG:NH1	3:D:89:ARG:HG2	2.33	0.44
3:D:93:ILE:HD13	3:D:548:ILE:HD13	1.95	0.44
5:F:151:LEU:HB2	5:F:155:THR:OG1	2.17	0.44
3:D:561:GLY:HA3	5:F:184:ARG:NH1	2.30	0.44
5:F:188:ILE:HG23	5:F:220:LEU:HD23	1.98	0.44
1:K:115:LEU:O	1:K:115:LEU:HD12	2.17	0.44
1:K:44:LEU:HD21	1:K:199:ILE:HD13	1.99	0.44
2:M:176:VAL:C	2:M:178:PRO:HD3	2.37	0.44
2:M:352:ALA:O	2:M:356:ARG:HG3	2.17	0.44
2:M:433:THR:C	2:M:435:TYR:H	2.20	0.44
2:M:880:MET:CE	3:N:1034:GLN:HG2	2.47	0.44
2:M:860:HIS:CD2	2:M:975:TYR:HB2	2.52	0.44
3:N:1117:TYR:CD2	3:N:1117:TYR:N	2.86	0.44
3:N:1137:ARG:CD	3:N:1137:ARG:H	2.31	0.44
3:N:1320:GLU:CG	3:N:1323:GLN:HE21	2.31	0.44
3:N:426:LYS:HG2	3:N:426:LYS:O	2.17	0.44
3:N:26:VAL:CG1	3:N:44:LEU:HD23	2.33	0.44
3:N:457:GLY:C	3:N:459:GLU:N	2.68	0.44
3:N:486:ARG:HH21	3:N:489:ARG:CD	2.28	0.44
3:N:571:LYS:HB2	3:N:571:LYS:HZ2	1.82	0.44
2:M:1072:LYS:C	3:N:659:LYS:NZ	2.71	0.44
3:N:661:MET:O	3:N:664:LYS:O	2.35	0.44
3:N:639:LEU:HA	3:N:729:HIS:CD2	2.52	0.44
3:N:758:GLU:HG3	4:O:20:THR:HG21	2.00	0.44
3:N:868:TYR:HD1	3:N:869:MET:H	1.65	0.44
2:M:1115:LEU:HA	3:N:89:ARG:HH21	1.82	0.44
5:P:214:GLN:NE2	5:P:214:GLN:HA	2.32	0.44
5:P:340:SER:O	5:P:343:ASP:N	2.50	0.44
5:P:386:VAL:HG13	5:P:394:ARG:NE	2.32	0.44
1:A:123:MET:O	1:A:125:PRO:HD3	2.17	0.44
1:B:81:ASN:ND2	1:B:128:HIS:O	2.50	0.44
2:C:517:ARG:HG3	2:C:517:ARG:NH1	2.32	0.44
2:C:693:GLU:OE1	2:C:693:GLU:HA	2.17	0.44
2:C:704:HIS:CD2	2:C:831:ARG:HH12	2.35	0.44
3:D:1197:ARG:C	3:D:1199:GLY:H	2.21	0.44
3:D:1314:LYS:HD3	3:D:1314:LYS:H	1.82	0.44
3:D:1339:LYS:HD3	3:D:1343:ALA:HB1	1.98	0.44
3:D:207:PHE:HA	3:D:208:PRO:HD3	1.74	0.44
3:D:684:LYS:O	3:D:687:VAL:HG23	2.17	0.44
3:D:729:HIS:HD1	3:D:731:LEU:N	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:631:ILE:CG2	3:D:745:MET:HB2	2.47	0.44
3:D:833:GLU:O	3:D:834:THR:HG23	2.17	0.44
3:D:858:VAL:HG12	3:D:862:ASP:HB2	1.98	0.44
1:B:176:ARG:NH2	3:D:884:ARG:HD3	2.31	0.44
4:E:83:ASP:O	4:E:86:GLN:HG2	2.17	0.44
5:F:84:TYR:HB3	5:F:88:ILE:HD12	1.99	0.44
1:K:47:SER:CB	1:K:217:ILE:HD13	2.45	0.44
1:K:69:PRO:O	1:K:71:VAL:N	2.51	0.44
2:M:114:PHE:CE2	5:P:283:GLY:O	2.71	0.44
2:M:471:TYR:HD1	2:M:486:MET:CE	2.30	0.44
2:M:663:ASN:OD1	2:M:663:ASN:O	2.36	0.44
2:M:710:ILE:HG23	2:M:710:ILE:O	2.17	0.44
3:N:1047:LYS:HB2	3:N:1051:GLU:O	2.16	0.44
3:N:1160:LEU:N	3:N:1160:LEU:HD23	2.33	0.44
3:N:462:GLN:OE1	3:N:466:LYS:HE3	2.17	0.44
3:N:493:ARG:HE	3:N:1389:LEU:CG	2.31	0.44
3:N:628:ARG:O	3:N:629:SER:HB3	2.18	0.44
3:N:753:SER:O	3:N:754:PHE:C	2.55	0.44
3:N:799:LYS:HD2	3:N:799:LYS:C	2.36	0.44
3:N:932:ASP:OD1	3:N:935:LYS:NZ	2.49	0.44
3:N:989:TYR:O	3:N:992:ILE:N	2.38	0.44
4:O:52:GLU:HA	4:O:52:GLU:OE2	2.17	0.44
2:C:1062:GLY:O	2:C:1065:ALA:N	2.50	0.44
2:C:1095:LEU:HD11	3:D:603:LEU:HB3	2.00	0.44
2:C:191:PHE:CE2	2:C:238:LEU:HD11	2.53	0.44
2:C:328:LEU:N	2:C:328:LEU:HD12	2.32	0.44
2:C:141:HIS:HE1	2:C:332:ARG:HH11	1.62	0.44
2:C:326:ASP:HB2	2:C:431:HIS:CE1	2.53	0.44
2:C:458:TYR:HB3	2:C:470:PRO:CG	2.47	0.44
2:C:563:ASN:O	2:C:564:MET:C	2.53	0.44
2:C:670:GLN:HE22	2:C:699:PHE:CA	2.31	0.44
2:C:943:VAL:HG21	2:C:973:VAL:CG1	2.47	0.44
3:D:1147:ARG:HB3	3:D:1188:VAL:HG23	1.99	0.44
3:D:127:LEU:C	3:D:127:LEU:HD12	2.37	0.44
3:D:232:GLU:HB2	3:D:234:GLU:CD	2.38	0.44
3:D:642:CYS:O	3:D:718:PRO:HA	2.17	0.44
3:D:798:GLU:CG	3:D:799:LYS:H	2.21	0.44
3:D:835:SER:O	3:D:837:GLY:N	2.51	0.44
1:B:77:GLU:HB2	3:D:872:ARG:HH22	1.82	0.44
3:D:965:GLU:OE1	3:D:965:GLU:HA	2.17	0.44
1:K:214:ALA:O	1:K:215:VAL:C	2.54	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:44:LEU:C	1:K:46:SER:H	2.21	0.44
1:K:85:LEU:HD12	1:K:86:VAL:N	2.32	0.44
1:L:161:ARG:HG3	1:L:161:ARG:NH1	2.32	0.44
2:M:196:LEU:HA	2:M:199:VAL:HG23	1.99	0.44
2:M:194:VAL:CG1	2:M:221:LEU:HG	2.47	0.44
2:M:559:LEU:HG	2:M:560:MET:N	2.30	0.44
2:M:643:VAL:HG13	2:M:647:GLN:OE1	2.18	0.44
2:M:751:PRO:HB2	3:N:680:GLN:HG3	1.99	0.44
2:M:944:LEU:HD21	2:M:963:LEU:HD23	1.99	0.44
3:N:1163:GLY:O	3:N:1164:ARG:C	2.56	0.44
3:N:245:LEU:C	3:N:245:LEU:HD13	2.37	0.44
3:N:493:ARG:CB	3:N:493:ARG:HH11	2.30	0.44
3:N:505:SER:O	3:N:506:GLY:O	2.34	0.44
3:N:699:VAL:CB	3:N:716:PHE:O	2.64	0.44
3:N:810:GLU:HA	3:N:813:LEU:CD2	2.47	0.44
3:N:835:SER:H	3:N:838:ARG:HG3	1.81	0.44
3:N:82:LYS:C	3:N:84:ILE:H	2.20	0.44
3:N:941:PHE:O	3:N:942:SER:C	2.56	0.44
4:O:54:LEU:HD23	4:O:58:PRO:HD2	2.00	0.44
5:P:77:THR:O	5:P:81:VAL:HG23	2.18	0.44
1:A:4:SER:O	1:A:7:LYS:HB3	2.18	0.44
2:C:1102:LEU:HD23	2:C:1106:ASP:HB3	2.00	0.44
2:C:455:LEU:HD12	2:C:455:LEU:C	2.38	0.44
2:C:551:GLU:HB3	2:C:906:PHE:HD2	1.75	0.44
2:C:810:ASP:OD2	2:C:815:LEU:HD22	2.17	0.44
2:C:872:ASN:OD1	2:C:873:PRO:HD2	2.17	0.44
3:D:1135:ARG:HB2	3:D:1140:ILE:HD11	1.99	0.44
3:D:1389:LEU:O	3:D:1391:GLU:N	2.50	0.44
3:D:172:PRO:HA	3:D:178:LEU:HD12	1.99	0.44
3:D:166:GLN:HG2	3:D:207:PHE:CG	2.53	0.44
3:D:217:LYS:HB2	3:D:217:LYS:NZ	2.28	0.44
3:D:790:TYR:HD2	3:D:906:GLN:O	2.01	0.44
3:D:826:PRO:C	3:D:829:VAL:HG22	2.38	0.44
5:F:191:ASN:O	5:F:194:LEU:HB3	2.17	0.44
1:K:195:LEU:CD1	1:K:196:THR:N	2.75	0.44
1:K:35:THR:HG21	1:L:43:ILE:HD11	1.98	0.44
1:L:201:THR:C	1:L:203:GLY:H	2.20	0.44
2:M:1016:ILE:HG12	2:M:1017:THR:H	1.82	0.44
2:M:1044:GLY:C	2:M:1046:ALA:N	2.64	0.44
2:M:44:ILE:H	2:M:44:ILE:CD1	2.30	0.44
3:N:1451:ALA:C	3:N:1453:ALA:N	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:230:TRP:C	3:N:232:GLU:H	2.21	0.44
3:N:29:PRO:HG2	3:N:549:ASN:HD22	1.80	0.44
3:N:470:LEU:CD1	3:N:503:LEU:HG	2.48	0.44
3:N:808:THR:H	3:N:809:PRO:HD3	1.83	0.44
3:N:928:ALA:O	3:N:931:LEU:HB2	2.18	0.44
4:O:59:ASN:HD22	4:O:59:ASN:HA	1.62	0.44
1:A:59:GLU:HG3	1:A:60:ASP:H	1.83	0.44
1:B:25:LEU:O	1:B:25:LEU:HD23	2.17	0.44
1:B:58:ILE:CG2	1:B:59:GLU:H	2.18	0.44
2:C:405:ARG:NH1	2:C:563:ASN:ND2	2.65	0.44
2:C:430:VAL:HG13	3:D:1075:HIS:ND1	2.32	0.44
2:C:620:LEU:HD23	2:C:620:LEU:N	2.32	0.44
2:C:876:VAL:H	2:C:877:PRO:HD2	1.82	0.44
3:D:1176:LYS:HA	3:D:1179:GLU:HG3	1.99	0.44
3:D:1273:VAL:HG23	3:D:1273:VAL:O	2.17	0.44
3:D:396:VAL:HG22	3:D:447:VAL:CA	2.47	0.44
3:D:568:ARG:O	3:D:572:ARG:N	2.42	0.44
3:D:702:LEU:N	3:D:702:LEU:CD1	2.81	0.44
5:F:107:GLU:C	5:F:109:GLY:H	2.21	0.44
5:F:164:LYS:CB	5:F:171:LYS:NZ	2.80	0.44
5:F:88:ILE:O	5:F:92:PRO:HG3	2.18	0.44
1:K:189:ARG:CZ	1:L:155:LYS:HE2	2.48	0.44
1:K:215:VAL:HG23	1:K:216:GLU:N	2.32	0.44
2:M:1015:LEU:HB3	2:M:1016:ILE:HD13	2.00	0.44
2:M:1047:HIS:CE1	2:M:1078:GLU:OE2	2.71	0.44
2:M:80:GLN:O	2:M:81:ASP:C	2.55	0.44
2:M:863:ASP:OD2	2:M:865:THR:CG2	2.66	0.44
3:N:1137:ARG:N	3:N:1137:ARG:HD2	2.33	0.44
3:N:657:LEU:O	3:N:658:LEU:C	2.56	0.44
3:N:871:LYS:HZ3	3:N:897:TRP:HZ3	1.60	0.44
1:A:146:ARG:O	1:A:146:ARG:HD3	2.18	0.44
1:A:173:PRO:HB2	1:A:205:VAL:HG22	2.00	0.44
2:C:118:ILE:HG23	2:C:118:ILE:O	2.18	0.44
2:C:182:VAL:HG21	2:C:220:GLY:O	2.17	0.44
2:C:367:LEU:N	2:C:367:LEU:HD23	2.33	0.44
2:C:100:LEU:HG	2:C:368:THR:OG1	2.17	0.44
2:C:975:TYR:N	2:C:975:TYR:CD1	2.86	0.44
3:D:133:ILE:HG21	3:D:454:ALA:CB	2.44	0.44
3:D:1452:ILE:HG22	3:D:1453:ALA:N	2.33	0.44
3:D:1491:THR:HG21	4:E:89:MET:CE	2.48	0.44
3:D:211:VAL:HG12	3:D:212:ARG:N	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:601:ARG:HD3	3:D:606:ILE:HG12	1.99	0.44
3:D:645:PRO:O	3:D:648:MET:HB3	2.17	0.44
3:D:639:LEU:HD21	3:D:731:LEU:HB2	2.00	0.44
5:F:176:ILE:O	5:F:180:GLY:N	2.51	0.44
5:F:287:THR:O	5:F:289:GLU:N	2.51	0.44
3:D:534:ARG:HG2	5:F:312:GLN:HE22	1.83	0.44
1:K:16:GLN:O	1:K:17:GLY:C	2.56	0.44
1:K:221:HIS:HA	1:K:224:TYR:CD2	2.52	0.44
1:K:26:GLU:HG2	1:K:27:PRO:CA	2.47	0.44
1:K:64:GLU:O	1:K:76:VAL:HG22	2.18	0.44
1:L:13:VAL:HG12	1:L:14:ARG:N	2.33	0.44
2:M:244:PRO:CD	2:M:245:GLY:N	2.80	0.44
2:M:367:LEU:HB3	2:M:371:LYS:HE3	1.99	0.44
2:M:520:GLU:O	2:M:522:VAL:HG23	2.17	0.44
2:M:700:TYR:HB2	2:M:833:LEU:HB2	2.00	0.44
2:M:952:LEU:HD22	2:M:952:LEU:N	2.32	0.44
3:N:1015:TYR:N	3:N:1016:PRO:HD3	2.32	0.44
3:N:1038:LEU:N	3:N:1038:LEU:HD12	2.33	0.44
3:N:1106:VAL:HB	3:N:1108:ARG:CZ	2.48	0.44
3:N:1137:ARG:H	3:N:1137:ARG:HD2	1.82	0.44
3:N:114:THR:C	3:N:116:LEU:H	2.20	0.44
3:N:115:LEU:HD12	3:N:498:VAL:HG23	2.00	0.44
3:N:658:LEU:O	3:N:661:MET:N	2.50	0.44
3:N:714:GLN:NE2	3:N:732:VAL:HG11	2.33	0.44
3:N:789:LEU:O	3:N:792:ILE:HG22	2.17	0.44
3:N:800:LYS:HE3	3:N:800:LYS:HB3	1.77	0.44
5:P:247:ILE:O	5:P:250:ALA:HB3	2.18	0.44
5:P:362:SER:O	5:P:363:GLU:O	2.35	0.44
5:P:406:ARG:HB3	5:P:409:LYS:HE2	1.99	0.44
1:A:94:LEU:CD2	1:A:119:ASP:HB2	2.47	0.44
1:A:111:ALA:HB1	1:A:122:ILE:HG21	2.00	0.44
1:A:206:THR:CG2	1:A:208:LEU:HB3	2.48	0.44
2:C:154:ARG:C	2:C:156:GLY:N	2.71	0.44
2:C:165:LEU:HA	2:C:166:PRO:C	2.38	0.44
2:C:204:GLN:NE2	2:C:228:ALA:HB2	2.33	0.44
2:C:25:SER:C	2:C:27:ARG:N	2.71	0.44
2:C:554:ASP:O	2:C:556:ASN:N	2.51	0.44
2:C:602:GLU:CA	2:C:614:ARG:HB3	2.48	0.44
2:C:791:ARG:HH11	2:C:791:ARG:HG3	1.83	0.44
2:C:5:ARG:HA	2:C:902:ILE:HB	1.99	0.44
3:D:1088:THR:HA	3:D:1234:THR:HG23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1504:GLU:O	3:D:1505:ALA:HB3	2.17	0.44
3:D:34:TYR:CD1	3:D:35:ARG:N	2.85	0.44
3:D:396:VAL:CG1	3:D:446:VAL:N	2.81	0.44
3:D:674:ARG:NE	5:F:342:VAL:HG11	2.32	0.44
3:D:778:LEU:HA	3:D:778:LEU:HD12	1.67	0.44
3:D:897:TRP:CZ2	3:D:902:LEU:HD11	2.53	0.44
1:K:123:MET:C	1:K:125:PRO:HD3	2.39	0.44
1:K:18:ARG:HH12	1:K:88:ARG:NE	2.16	0.44
1:L:21:GLY:HA3	1:L:207:PRO:CB	2.48	0.44
2:M:1008:ARG:HH12	3:N:624:ASP:CG	2.20	0.44
2:M:1037:VAL:O	2:M:1038:TRP:C	2.56	0.44
2:M:1092:LEU:HA	2:M:1095:LEU:HD12	1.99	0.44
2:M:280:LYS:HB2	2:M:281:LEU:HD23	2.00	0.44
2:M:289:THR:HB	2:M:290:LEU:HD23	2.00	0.44
2:M:630:ARG:HH11	2:M:630:ARG:HG3	1.83	0.44
2:M:737:LEU:O	2:M:738:ASP:C	2.56	0.44
2:M:688:ILE:HD13	2:M:871:LEU:HD11	1.99	0.44
3:N:1149:LEU:O	3:N:1162:GLU:HG2	2.18	0.44
3:N:1160:LEU:O	3:N:1161:GLU:O	2.36	0.44
3:N:1451:ALA:C	3:N:1453:ALA:H	2.21	0.44
3:N:1486:VAL:HG22	4:O:75:PHE:HB3	1.99	0.44
3:N:609:GLY:HA3	3:N:613:ARG:HB3	2.00	0.44
3:N:774:SER:O	3:N:775:GLY:C	2.56	0.44
3:N:835:SER:O	3:N:838:ARG:N	2.32	0.44
5:P:418:LEU:O	5:P:419:ARG:C	2.55	0.44
1:B:13:VAL:HG12	1:B:14:ARG:N	2.31	0.43
2:C:309:TYR:CA	2:C:312:ALA:HB3	2.44	0.43
2:C:684:PHE:CD2	2:C:685:GLU:N	2.86	0.43
2:C:91:GLN:HB3	2:C:92:ALA:H	1.63	0.43
3:D:112:ILE:HG22	3:D:512:MET:SD	2.58	0.43
3:D:1279:GLY:O	3:D:1318:TYR:HA	2.17	0.43
3:D:133:ILE:HA	3:D:455:ARG:O	2.18	0.43
3:D:1442:ASN:O	3:D:1444:THR:N	2.51	0.43
3:D:1481:VAL:O	3:D:1482:ARG:C	2.56	0.43
3:D:444:VAL:HG13	3:D:444:VAL:O	2.18	0.43
3:D:753:SER:O	3:D:757:ALA:HB2	2.18	0.43
4:E:57:ASP:N	4:E:58:PRO:HD3	2.33	0.43
5:F:102:LEU:CD1	5:F:186:HIS:O	2.66	0.43
5:F:221:ILE:C	5:F:223:ALA:H	2.20	0.43
5:F:235:PHE:O	5:F:238:TYR:N	2.51	0.43
5:F:297:PRO:O	5:F:299:TRP:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:170:VAL:O	1:L:170:VAL:HG23	2.18	0.43
1:L:197:LEU:HD23	1:L:197:LEU:O	2.17	0.43
2:M:1017:THR:HG23	2:M:1017:THR:O	2.18	0.43
2:M:1050:GLN:O	2:M:1051:GLU:C	2.54	0.43
2:M:146:VAL:HG21	2:M:281:LEU:HD21	2.00	0.43
2:M:428:ARG:NH2	2:M:447:ALA:O	2.51	0.43
2:M:653:ASP:OD1	2:M:654:LEU:N	2.50	0.43
2:M:752:GLY:H	2:M:792:VAL:HB	1.82	0.43
2:M:893:ALA:HB1	2:M:897:LEU:HD22	2.00	0.43
2:M:985:GLY:O	2:M:987:ILE:CD1	2.66	0.43
3:N:1151:ARG:HD3	3:N:1151:ARG:HA	1.88	0.43
3:N:1209:LEU:O	3:N:1210:SER:C	2.56	0.43
3:N:218:LYS:HB3	3:N:373:PRO:O	2.18	0.43
3:N:528:VAL:HG12	3:N:529:GLN:H	1.81	0.43
3:N:74:GLU:CB	3:N:75:ARG:HH21	2.23	0.43
5:P:227:PHE:CD1	5:P:235:PHE:HD1	2.36	0.43
1:B:146:ARG:HG3	1:B:146:ARG:O	2.17	0.43
2:C:1076:VAL:HA	2:C:1077:PRO:HD3	1.81	0.43
2:C:177:GLU:O	2:C:181:VAL:O	2.35	0.43
2:C:256:TYR:O	2:C:259:GLY:N	2.51	0.43
2:C:672:VAL:CG2	2:C:694:LEU:HD21	2.48	0.43
2:C:826:TYR:H	2:C:826:TYR:HD1	1.64	0.43
3:D:1031:ASN:HB3	3:D:1034:GLN:NE2	2.33	0.43
3:D:1127:GLU:OE2	3:D:1128:VAL:HG23	2.18	0.43
3:D:130:SER:HA	3:D:572:ARG:NH1	2.33	0.43
3:D:220:ARG:O	3:D:221:ALA:HB2	2.19	0.43
3:D:403:PHE:HB3	3:D:404:GLU:H	1.68	0.43
5:F:188:ILE:HG23	5:F:220:LEU:CD2	2.48	0.43
5:F:371:LEU:CD2	5:F:375:LEU:HB2	2.47	0.43
1:L:151:VAL:CG2	1:L:171:PHE:HE2	2.31	0.43
2:M:1052:MET:HE1	3:N:623:VAL:HG11	1.99	0.43
2:M:1105:LYS:O	2:M:1106:ASP:C	2.57	0.43
2:M:154:ARG:HH12	2:M:157:ARG:H	1.65	0.43
2:M:571:LEU:HB3	2:M:701:THR:O	2.18	0.43
2:M:679:PHE:CD1	2:M:870:ILE:HD13	2.52	0.43
2:M:890:LEU:O	2:M:893:ALA:HB3	2.18	0.43
2:M:919:ALA:O	2:M:922:PHE:N	2.50	0.43
3:N:1034:GLN:O	3:N:1038:LEU:HD13	2.18	0.43
3:N:1192:LEU:CD2	3:N:1345:GLU:OE2	2.66	0.43
3:N:32:ILE:HD12	3:N:527:MET:HG2	1.99	0.43
3:N:37:LEU:HD11	3:N:529:GLN:NE2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:422:ALA:HB3	3:N:427:VAL:CG1	2.47	0.43
4:O:7:ASP:HA	4:O:10:PHE:HB2	1.99	0.43
4:O:32:ARG:O	4:O:34:GLY:N	2.43	0.43
3:N:767:HIS:NE2	4:O:6:ILE:HG12	2.33	0.43
5:P:104:ARG:O	5:P:108:GLU:HB2	2.18	0.43
5:P:148:LYS:HD3	5:P:148:LYS:O	2.17	0.43
3:N:423:ASP:OD2	5:P:175:HIS:HA	2.19	0.43
1:A:221:HIS:HA	1:A:224:TYR:CE2	2.54	0.43
1:A:222:LEU:HD13	1:A:222:LEU:HA	1.89	0.43
1:B:156:HIS:HD2	1:B:156:HIS:H	1.65	0.43
2:C:25:SER:O	2:C:26:TYR:C	2.53	0.43
2:C:211:LEU:CD1	2:C:308:ARG:HB2	2.48	0.43
3:D:1094:LEU:HG	3:D:1094:LEU:O	2.09	0.43
3:D:1167:SER:C	3:D:1169:ASP:H	2.21	0.43
3:D:130:SER:OG	3:D:132:TYR:CE1	2.62	0.43
3:D:166:GLN:HB3	3:D:395:VAL:HG23	2.00	0.43
3:D:695:ILE:HG22	3:D:696:HIS:N	2.33	0.43
3:D:629:SER:HB3	3:D:726:ILE:CG1	2.49	0.43
3:D:733:CYS:O	3:D:736:PHE:O	2.36	0.43
3:D:807:ALA:HB1	3:D:833:GLU:OE1	2.18	0.43
3:D:796:ARG:NH1	3:D:861:GLN:OE1	2.51	0.43
5:F:409:LYS:HE3	5:F:409:LYS:HB2	1.87	0.43
1:L:157:GLY:O	1:L:158:ILE:O	2.37	0.43
1:L:171:PHE:O	1:L:172:SER:C	2.55	0.43
1:L:181:VAL:CG1	1:L:193:ASP:HB3	2.48	0.43
2:M:101:ILE:HD13	2:M:107:LEU:HB3	2.00	0.43
2:M:32:ALA:HB2	2:M:73:LEU:HD12	1.99	0.43
2:M:501:THR:HG22	2:M:513:VAL:CG1	2.49	0.43
2:M:547:ILE:O	2:M:548:PRO:O	2.35	0.43
2:M:63:GLY:HA3	2:M:103:LYS:CD	2.48	0.43
2:M:734:LEU:O	2:M:735:ARG:C	2.57	0.43
2:M:950:LEU:HA	2:M:950:LEU:HD22	1.89	0.43
3:N:997:THR:O	3:N:1001:GLU:HB2	2.19	0.43
3:N:1271:LYS:HZ3	3:N:1273:VAL:HA	1.76	0.43
3:N:128:TYR:HB3	3:N:129:PHE:HD1	1.83	0.43
3:N:457:GLY:C	3:N:459:GLU:H	2.21	0.43
3:N:53:ILE:HG23	3:N:54:LYS:N	2.33	0.43
3:N:625:TYR:O	3:N:749:VAL:HG23	2.17	0.43
3:N:633:VAL:HG22	3:N:635:PRO:CD	2.49	0.43
3:N:783:ARG:O	3:N:784:ASP:C	2.57	0.43
3:N:792:ILE:HG23	3:N:793:THR:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:100:VAL:O	5:P:104:ARG:HB2	2.18	0.43
5:P:274:THR:HG21	5:P:295:MET:HE3	1.98	0.43
5:P:281:GLU:O	5:P:283:GLY:N	2.51	0.43
5:P:389:PHE:CD2	5:P:397:ILE:HD11	2.53	0.43
1:A:92:PRO:C	1:A:94:LEU:H	2.19	0.43
1:B:7:LYS:CE	1:B:186:LEU:HD22	2.46	0.43
1:B:76:VAL:HA	1:B:79:ILE:CG1	2.48	0.43
2:C:1070:ILE:O	2:C:1071:ILE:C	2.56	0.43
2:C:205:GLU:HA	2:C:209:ARG:NH1	2.33	0.43
2:C:409:ARG:HG3	2:C:454:SER:OG	2.19	0.43
2:C:920:GLN:CG	2:C:920:GLN:O	2.66	0.43
3:D:1128:VAL:O	3:D:1129:THR:HG22	2.19	0.43
3:D:1183:ILE:HG22	3:D:1184:GLN:H	1.84	0.43
3:D:1464:GLU:HA	3:D:1467:ILE:HD12	1.99	0.43
3:D:198:ARG:HG3	3:D:198:ARG:H	1.54	0.43
3:D:213:VAL:HA	3:D:391:ALA:HA	2.00	0.43
3:D:570:GLU:HB2	5:F:214:GLN:HE22	1.74	0.43
3:D:130:SER:HA	3:D:572:ARG:HH12	1.83	0.43
3:D:683:ILE:HG23	3:D:687:VAL:HG21	2.01	0.43
3:D:707:THR:C	3:D:708:LEU:HD23	2.38	0.43
3:D:790:TYR:CD2	3:D:1026:SER:HB3	2.53	0.43
4:E:63:TRP:O	4:E:66:LYS:N	2.51	0.43
5:F:164:LYS:CB	5:F:171:LYS:HZ1	2.29	0.43
2:M:151:ASP:O	2:M:152:PRO:O	2.36	0.43
2:M:184:MET:SD	2:M:186:VAL:HG13	2.58	0.43
2:M:194:VAL:HG13	2:M:221:LEU:CD1	2.49	0.43
2:M:64:LEU:HB2	2:M:359:MET:CE	2.48	0.43
2:M:384:GLU:HG3	2:M:388:ARG:HH21	1.83	0.43
2:M:745:ILE:HD13	2:M:745:ILE:N	2.33	0.43
2:M:939:ARG:HH11	2:M:981:GLU:HG2	1.83	0.43
3:N:572:ARG:O	3:N:575:GLN:HB3	2.19	0.43
3:N:846:PRO:O	3:N:850:LEU:HD13	2.19	0.43
3:N:966:GLU:HA	3:N:969:ARG:CD	2.49	0.43
5:P:169:GLU:CD	5:P:169:GLU:H	2.22	0.43
5:P:358:LEU:CD1	5:P:370:LYS:HD2	2.47	0.43
5:P:406:ARG:CA	5:P:409:LYS:HG2	2.33	0.43
1:A:62:LEU:CD1	1:A:62:LEU:N	2.77	0.43
1:A:75:VAL:O	1:A:75:VAL:CG1	2.65	0.43
1:B:206:THR:O	1:B:209:GLU:HB2	2.18	0.43
2:C:1013:TYR:CE1	2:C:1063:ARG:NH1	2.86	0.43
2:C:1089:VAL:HG21	2:C:1111:ILE:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:321:GLU:O	2:C:322:VAL:C	2.57	0.43
2:C:605:LYS:HE2	2:C:610:ARG:NH2	2.32	0.43
2:C:641:PRO:HA	2:C:656:ALA:CB	2.48	0.43
2:C:760:SER:O	2:C:785:VAL:CG2	2.66	0.43
2:C:957:LYS:HG2	2:C:961:GLU:CB	2.48	0.43
3:D:1285:GLU:O	3:D:1285:GLU:HG2	2.19	0.43
3:D:1459:LEU:CD1	3:D:1468:LEU:HD12	2.48	0.43
3:D:730:PRO:HG2	3:D:731:LEU:H	1.82	0.43
3:D:919:PHE:C	3:D:919:PHE:CD2	2.92	0.43
5:F:388:ALA:HB3	5:F:397:ILE:HD13	2.00	0.43
1:K:163:ASN:HD22	1:K:163:ASN:HA	1.65	0.43
2:M:139:GLN:HB3	2:M:334:ARG:CG	2.49	0.43
2:M:14:PRO:O	2:M:15:LEU:O	2.36	0.43
2:M:170:PRO:CD	2:M:263:ASP:HB3	2.48	0.43
3:N:387:LEU:HD21	5:P:97:GLU:CG	2.48	0.43
3:N:441:ARG:C	3:N:443:VAL:N	2.71	0.43
3:N:60:CYS:SG	3:N:62:LYS:HB2	2.59	0.43
3:N:774:SER:O	3:N:776:GLU:N	2.52	0.43
3:N:841:TYR:HB3	3:N:843:PHE:CE1	2.53	0.43
3:N:928:ALA:O	3:N:929:ARG:C	2.55	0.43
4:O:57:ASP:N	4:O:58:PRO:HD3	2.34	0.43
5:P:278:LEU:HB2	5:P:286:PRO:HG2	2.00	0.43
5:P:94:LEU:HB2	5:P:98:GLU:CG	2.49	0.43
1:A:119:ASP:OD1	1:A:119:ASP:N	2.51	0.43
1:A:134:GLU:H	1:A:134:GLU:HG2	1.47	0.43
1:A:216:GLU:O	1:A:219:ARG:N	2.52	0.43
1:A:25:LEU:C	1:A:25:LEU:HD23	2.38	0.43
1:A:38:ASN:HB3	1:A:39:PRO:CD	2.49	0.43
1:A:97:VAL:CG1	1:A:98:THR:N	2.81	0.43
1:B:228:PRO:O	1:B:229:GLN:HB2	2.18	0.43
1:B:32:PHE:HA	1:B:35:THR:HB	2.00	0.43
1:B:38:ASN:O	1:B:41:ARG:HB3	2.18	0.43
2:C:1089:VAL:O	2:C:1093:GLN:HB2	2.18	0.43
2:C:328:LEU:CD1	2:C:328:LEU:N	2.81	0.43
2:C:35:PRO:C	2:C:37:GLU:N	2.72	0.43
2:C:707:ARG:HD2	2:C:826:TYR:CZ	2.52	0.43
2:C:946:ARG:CZ	2:C:984:GLU:HB2	2.49	0.43
3:D:1082:ALA:O	3:D:1083:ASP:C	2.56	0.43
3:D:1117:TYR:HE2	3:D:1151:ARG:HH11	1.65	0.43
3:D:1259:VAL:HG21	3:D:1356:TYR:CE1	2.53	0.43
3:D:1299:PHE:N	3:D:1299:PHE:CD2	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:141:ILE:HG22	3:D:142:LEU:H	1.83	0.43
3:D:163:TYR:HE2	3:D:167:GLU:CD	2.21	0.43
3:D:601:ARG:HB2	3:D:601:ARG:HH11	1.80	0.43
3:D:666:ILE:O	3:D:666:ILE:HG22	2.19	0.43
2:C:679:PHE:HA	3:D:943:THR:HG22	2.00	0.43
3:D:8:VAL:CG1	3:D:9:ARG:N	2.81	0.43
2:C:1016:ILE:HD11	5:F:330:GLY:O	2.18	0.43
5:F:371:LEU:HD22	5:F:375:LEU:HB2	2.00	0.43
1:K:121:GLU:HG2	1:K:123:MET:SD	2.58	0.43
1:K:172:SER:HA	1:K:173:PRO:HD3	1.80	0.43
1:K:43:ILE:HG22	1:K:217:ILE:HD12	2.00	0.43
1:L:79:ILE:HG21	1:L:165:ILE:HD11	2.01	0.43
2:M:1052:MET:SD	2:M:1056:LYS:HD3	2.58	0.43
2:M:1055:LEU:HG	2:M:1079:PRO:HG3	2.00	0.43
2:M:328:LEU:HA	2:M:328:LEU:HD12	1.77	0.43
2:M:588:VAL:HG23	2:M:596:TYR:OH	2.18	0.43
2:M:985:GLY:HA2	2:M:986:PRO:HD3	1.81	0.43
3:N:1223:ILE:O	3:N:1224:VAL:C	2.55	0.43
3:N:135:LEU:HD23	3:N:135:LEU:C	2.39	0.43
3:N:1394:VAL:O	3:N:1398:TRP:CD1	2.71	0.43
3:N:1264:GLU:OE2	3:N:1425:THR:HB	2.18	0.43
3:N:1440:PHE:O	3:N:1443:THR:HG23	2.19	0.43
3:N:1451:ALA:O	3:N:1454:GLY:N	2.45	0.43
3:N:179:VAL:O	3:N:183:GLU:HB2	2.18	0.43
3:N:559:ALA:C	3:N:561:GLY:N	2.72	0.43
3:N:569:ASN:O	3:N:573:MET:HG3	2.18	0.43
3:N:631:ILE:HG12	3:N:743:ASP:O	2.18	0.43
3:N:626:SER:O	3:N:652:LEU:HD11	2.18	0.43
1:A:18:ARG:HH11	1:A:123:MET:HE1	1.83	0.43
2:C:630:ARG:HD3	2:C:705:ILE:HB	2.00	0.43
2:C:754:ILE:N	2:C:754:ILE:HD13	2.33	0.43
2:C:859:PRO:HD2	2:C:870:ILE:HD11	2.00	0.43
2:C:9:ILE:CD1	2:C:907:ASP:HB3	2.49	0.43
3:D:1091:SER:O	3:D:1092:GLY:C	2.56	0.43
3:D:168:THR:HG22	3:D:169:TYR:N	2.33	0.43
3:D:25:GLU:OE1	3:D:26:VAL:C	2.57	0.43
3:D:28:LYS:HA	3:D:29:PRO:HD3	1.73	0.43
3:D:368:VAL:CG1	3:D:369:ALA:N	2.81	0.43
3:D:422:ALA:CB	3:D:427:VAL:HG22	2.33	0.43
5:F:107:GLU:C	5:F:109:GLY:N	2.72	0.43
5:F:210:LEU:O	5:F:213:ILE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:146:ARG:HH21	1:K:147:GLY:HA2	1.84	0.43
1:K:198:ARG:HD2	2:M:934:PHE:CZ	2.54	0.43
2:M:196:LEU:HD23	2:M:200:LEU:HD11	2.01	0.43
2:M:473:ARG:HG3	2:M:474:VAL:N	2.33	0.43
2:M:958:THR:O	2:M:961:GLU:N	2.51	0.43
3:N:1045:MET:HG2	3:N:1073:SER:CA	2.41	0.43
3:N:100:ALA:HB3	3:N:128:TYR:HE2	1.84	0.43
3:N:1399:ASP:O	3:N:1403:LEU:HD12	2.19	0.43
3:N:148:GLU:O	3:N:149:LYS:C	2.56	0.43
3:N:215:TYR:OH	5:P:101:GLU:HB2	2.18	0.43
3:N:226:PRO:O	3:N:227:LEU:C	2.56	0.43
3:N:834:THR:OG1	3:N:839:LEU:HD21	2.19	0.43
1:A:56:VAL:HG21	1:A:79:ILE:HG22	1.99	0.43
1:B:183:ASP:HA	1:B:192:LEU:O	2.18	0.43
1:B:73:GLU:HA	1:B:77:GLU:OE2	2.19	0.43
2:C:432:ARG:HG3	2:C:432:ARG:HH11	1.84	0.43
2:C:734:LEU:O	2:C:735:ARG:C	2.57	0.43
3:D:1381:VAL:HG12	3:D:1382:THR:N	2.33	0.43
3:D:211:VAL:HG13	3:D:393:ILE:CG2	2.49	0.43
3:D:72:VAL:HG12	3:D:73:CYS:H	1.82	0.43
3:D:771:SER:HB2	3:D:778:LEU:HD13	2.01	0.43
3:D:919:PHE:C	3:D:919:PHE:HD2	2.22	0.43
3:D:989:TYR:CE2	3:D:993:LEU:HD11	2.53	0.43
4:E:38:THR:CB	4:E:63:TRP:HZ3	2.31	0.43
5:F:282:LEU:CD1	5:F:284:ARG:HB2	2.46	0.43
1:L:111:ALA:HB3	1:L:124:ASN:O	2.18	0.43
1:L:176:ARG:HG2	1:L:200:TRP:CB	2.49	0.43
2:M:1106:ASP:OD1	3:N:7:LYS:NZ	2.41	0.43
2:M:64:LEU:HD13	2:M:359:MET:HG3	2.01	0.43
2:M:767:PRO:O	2:M:768:THR:HG23	2.18	0.43
2:M:892:LEU:HD13	2:M:989:VAL:O	2.19	0.43
3:N:10:ILE:HG13	3:N:1434:TRP:CZ2	2.54	0.43
3:N:1101:VAL:CG1	3:N:1424:VAL:HG23	2.38	0.43
3:N:628:ARG:O	3:N:629:SER:CB	2.67	0.43
3:N:670:VAL:HG12	3:N:674:ARG:HG3	2.01	0.43
3:N:676:MET:O	3:N:676:MET:SD	2.76	0.43
3:N:689:ASP:O	3:N:693:GLU:HB2	2.19	0.43
3:N:97:THR:HB	3:N:571:LYS:HG3	2.00	0.43
3:N:558:LEU:CD2	5:P:145:PRO:HB3	2.41	0.43
3:N:536:ALA:CB	5:P:315:VAL:CG1	2.95	0.43
5:P:340:SER:O	5:P:341:PRO:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:ARG:O	1:A:186:LEU:HD12	2.19	0.43
2:C:352:ALA:HA	2:C:355:VAL:CG1	2.49	0.43
2:C:549:PHE:CZ	2:C:886:LEU:HB3	2.54	0.43
2:C:767:PRO:O	2:C:768:THR:OG1	2.37	0.43
3:D:1035:ILE:HA	3:D:1038:LEU:HD12	1.99	0.43
3:D:1049:SER:CB	3:D:1051:GLU:HG2	2.49	0.43
3:D:130:SER:OG	3:D:131:LYS:N	2.52	0.43
3:D:1275:SER:HB2	3:D:1325:LEU:HD11	2.00	0.43
3:D:138:LYS:N	3:D:138:LYS:HE3	2.34	0.43
3:D:1405:GLU:O	3:D:1412:LYS:HA	2.18	0.43
3:D:1380:GLU:HB3	3:D:1418:LYS:HB2	2.00	0.43
3:D:1478:SER:O	3:D:1479:ASP:C	2.56	0.43
3:D:148:GLU:HB3	3:D:151:GLN:CG	2.49	0.43
3:D:173:PRO:O	3:D:174:GLY:O	2.37	0.43
3:D:545:ARG:O	3:D:546:ARG:C	2.57	0.43
3:D:543:LEU:HD13	3:D:581:LEU:HA	1.99	0.43
3:D:841:TYR:HB3	3:D:843:PHE:CE2	2.53	0.43
3:D:896:ALA:O	3:D:899:LEU:CD1	2.67	0.43
3:D:1485:GLN:HE22	4:E:80:VAL:H	1.66	0.43
1:K:146:ARG:HE	1:K:147:GLY:N	2.17	0.43
1:K:57:TYR:O	1:K:140:MET:HA	2.19	0.43
1:K:63:HIS:CD2	1:K:65:PHE:H	2.35	0.43
2:M:283:ILE:HG22	2:M:283:ILE:O	2.19	0.43
2:M:345:ARG:CZ	2:M:345:ARG:HB2	2.49	0.43
2:M:374:ASN:O	2:M:374:ASN:CG	2.57	0.43
2:M:710:ILE:HD11	2:M:758:ARG:HB2	2.01	0.43
2:M:917:LEU:N	2:M:917:LEU:HD23	2.34	0.43
3:N:1004:THR:OG1	3:N:1036:ARG:HD2	2.19	0.43
3:N:1058:ARG:CG	3:N:1058:ARG:NH1	2.80	0.43
3:N:1166:LEU:HB2	3:N:1170:ASP:CB	2.48	0.43
3:N:1215:VAL:CG2	3:N:1216:SER:N	2.81	0.43
3:N:32:ILE:HG23	3:N:38:LYS:O	2.19	0.43
3:N:471:GLU:OE2	3:N:503:LEU:HD21	2.19	0.43
3:N:101:HIS:HD2	3:N:582:LEU:HD13	1.81	0.43
3:N:648:MET:O	3:N:649:ALA:C	2.57	0.43
3:N:836:VAL:HG13	3:N:837:GLY:H	1.84	0.43
3:N:754:PHE:HA	4:O:24:ALA:HB1	2.00	0.43
4:O:63:TRP:O	4:O:64:ALA:C	2.57	0.43
4:O:40:LEU:HD21	4:O:67:GLU:HA	1.99	0.43
5:P:416:ARG:NH2	5:P:419:ARG:NH1	2.67	0.43
1:A:10:VAL:O	1:A:12:THR:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:18:ARG:O	1:B:201:THR:HB	2.19	0.43
2:C:1118:LYS:HA	3:D:23:TYR:CE1	2.53	0.43
2:C:145:GLY:O	2:C:163:ILE:HG22	2.19	0.43
2:C:176:VAL:HG12	2:C:182:VAL:HG13	2.00	0.43
2:C:247:PRO:HA	2:C:248:PRO:HD3	1.92	0.43
2:C:660:ALA:O	2:C:667:ALA:HB3	2.19	0.43
2:C:725:ASP:OD1	2:C:783:ARG:NH1	2.52	0.43
2:C:672:VAL:HG22	2:C:868:ASP:CB	2.49	0.43
3:D:1051:GLU:HG2	3:D:1051:GLU:H	1.61	0.43
3:D:1306:PRO:O	3:D:1308:GLU:N	2.51	0.43
3:D:1478:SER:OG	3:D:1480:PHE:HB3	2.19	0.43
3:D:443:VAL:HG12	3:D:445:ARG:HD2	2.00	0.43
3:D:49:ILE:HG22	3:D:50:PHE:N	2.33	0.43
3:D:54:LYS:O	3:D:55:ASP:C	2.57	0.43
3:D:55:ASP:CB	3:D:82:LYS:HG2	2.49	0.43
3:D:676:MET:CE	3:D:684:LYS:HG3	2.49	0.43
3:D:864:VAL:CG1	3:D:865:THR:H	2.30	0.43
4:E:18:ARG:O	4:E:19:LEU:C	2.57	0.43
5:F:140:ARG:HG3	5:F:141:VAL:H	1.84	0.43
1:L:107:LYS:HE2	1:L:109:VAL:HG22	2.00	0.43
1:L:217:ILE:O	1:L:221:HIS:HD2	2.01	0.43
2:M:174:LEU:CD2	2:M:184:MET:HG2	2.49	0.43
2:M:188:LYS:CD	2:M:189:ARG:N	2.73	0.43
2:M:545:ASN:HB3	2:M:583:LEU:HD11	2.00	0.43
2:M:397:GLU:CG	2:M:632:ASN:H	2.32	0.43
2:M:691:SER:OG	2:M:693:GLU:HB3	2.19	0.43
2:M:764:GLU:O	2:M:765:SER:OG	2.32	0.43
2:M:907:ASP:OD1	2:M:907:ASP:O	2.37	0.43
3:N:119:SER:C	3:N:121:THR:H	2.23	0.43
3:N:1488:ASP:CB	3:N:1490:LYS:HG3	2.49	0.43
3:N:169:TYR:O	3:N:169:TYR:CG	2.71	0.43
3:N:217:LYS:N	3:N:217:LYS:HD2	2.33	0.43
3:N:627:GLY:O	3:N:746:ALA:HA	2.19	0.43
3:N:789:LEU:HA	3:N:789:LEU:HD23	1.86	0.43
4:O:5:GLY:O	4:O:9:LEU:HG	2.19	0.43
5:P:229:TYR:C	5:P:231:ARG:H	2.22	0.43
1:A:34:VAL:HB	1:B:42:ARG:CZ	2.49	0.42
1:A:94:LEU:C	1:A:96:THR:H	2.22	0.42
1:B:189:ARG:HD2	1:B:189:ARG:N	2.32	0.42
2:C:1008:ARG:NH2	2:C:1021:LEU:H	2.16	0.42
2:C:100:LEU:HD21	2:C:367:LEU:HG	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:285:LEU:HD21	2:C:289:THR:HA	1.99	0.42
2:C:542:VAL:O	2:C:543:ASN:C	2.57	0.42
2:C:544:THR:HA	2:C:547:ILE:HD11	2.01	0.42
2:C:721:ARG:O	2:C:758:ARG:HG3	2.19	0.42
2:C:723:THR:OG1	2:C:725:ASP:OD2	2.33	0.42
3:D:1062:ARG:HD3	3:D:1062:ARG:C	2.39	0.42
3:D:1435:LEU:HB2	3:D:1457:ASP:OD2	2.19	0.42
3:D:387:LEU:HB3	3:D:388:HIS:H	1.50	0.42
3:D:416:ALA:HB3	3:D:417:PRO:HD3	2.00	0.42
3:D:425:GLY:O	3:D:426:LYS:C	2.57	0.42
2:C:1070:ILE:HD13	3:D:656:PHE:CE1	2.54	0.42
3:D:739:ASP:OD2	3:D:741:ASP:OD2	2.37	0.42
3:D:843:PHE:CE1	3:D:849:ALA:HA	2.53	0.42
3:D:907:GLU:HG2	3:D:1027:GLY:H	1.83	0.42
3:D:907:GLU:O	3:D:911:LEU:HD22	2.19	0.42
3:D:950:GLY:N	3:D:953:ASP:OD1	2.45	0.42
5:F:251:ILE:O	5:F:255:ALA:CB	2.67	0.42
5:F:358:LEU:CD1	5:F:370:LYS:HZ1	2.31	0.42
1:K:26:GLU:CG	1:K:27:PRO:HA	2.48	0.42
1:L:100:LEU:CB	1:L:115:LEU:HD11	2.48	0.42
1:L:6:LEU:C	1:L:8:ALA:H	2.22	0.42
2:M:134:ARG:HB3	2:M:134:ARG:HH11	1.84	0.42
2:M:226:VAL:HG13	2:M:227:PHE:H	1.84	0.42
2:M:310:LEU:O	2:M:314:THR:HG23	2.18	0.42
2:M:886:LEU:O	2:M:889:HIS:N	2.52	0.42
2:M:943:VAL:O	2:M:946:ARG:N	2.52	0.42
3:N:1155:VAL:HG21	3:N:1183:ILE:CD1	2.49	0.42
3:N:1322:GLY:O	3:N:1323:GLN:C	2.57	0.42
3:N:1431:THR:HB	3:N:1432:LYS:HD2	2.00	0.42
3:N:1435:LEU:C	3:N:1437:ALA:H	2.23	0.42
3:N:462:GLN:O	3:N:463:GLN:C	2.57	0.42
5:P:393:THR:HG23	5:P:394:ARG:HD2	2.01	0.42
5:P:395:GLU:O	5:P:398:ARG:CD	2.67	0.42
1:A:124:ASN:N	1:A:125:PRO:CD	2.82	0.42
1:A:26:GLU:HB2	1:A:27:PRO:HA	2.01	0.42
1:A:86:VAL:HG12	1:A:124:ASN:ND2	2.26	0.42
2:C:20:GLU:O	2:C:24:GLU:HB2	2.18	0.42
2:C:351:LEU:HD11	2:C:373:VAL:HG13	2.01	0.42
3:D:1239:ARG:HB3	3:D:1240:THR:H	1.55	0.42
3:D:1277:ILE:CG2	3:D:1278:ASP:H	1.96	0.42
3:D:166:GLN:HB3	3:D:395:VAL:CG2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:433:GLY:H	3:D:448:GLU:C	2.22	0.42
3:D:54:LYS:O	3:D:55:ASP:O	2.37	0.42
3:D:671:LYS:O	3:D:674:ARG:HB2	2.20	0.42
4:E:70:THR:O	4:E:72:ARG:N	2.47	0.42
5:F:140:ARG:HG3	5:F:140:ARG:NH1	2.34	0.42
2:M:1033:GLY:O	2:M:1036:GLU:OE1	2.36	0.42
2:M:1049:LEU:O	2:M:1053:LEU:CD2	2.61	0.42
2:M:1053:LEU:HD13	2:M:1053:LEU:HA	1.86	0.42
2:M:1060:ILE:HG22	2:M:1061:GLU:N	2.34	0.42
2:M:208:ALA:HB2	2:M:222:MET:SD	2.58	0.42
2:M:250:ARG:O	2:M:251:ASP:C	2.57	0.42
2:M:580:MET:CE	2:M:584:GLU:HG3	2.50	0.42
2:M:939:ARG:H	2:M:939:ARG:HG2	1.67	0.42
3:N:245:LEU:HD12	3:N:249:TYR:CB	2.45	0.42
3:N:564:GLU:HG2	3:N:565:ILE:H	1.84	0.42
3:N:82:LYS:C	3:N:84:ILE:N	2.72	0.42
4:O:36:LYS:C	4:O:38:THR:N	2.71	0.42
4:O:47:LYS:HA	4:O:54:LEU:HB3	2.01	0.42
5:P:316:SER:O	5:P:318:GLU:N	2.52	0.42
5:P:416:ARG:HB3	5:P:419:ARG:HB2	2.01	0.42
5:P:84:TYR:O	5:P:88:ILE:HG13	2.18	0.42
1:A:44:LEU:HD22	1:A:199:ILE:HG12	2.01	0.42
1:A:39:PRO:CG	1:B:39:PRO:HG3	2.44	0.42
1:B:3:ASP:HB3	1:B:4:SER:H	1.48	0.42
1:B:94:LEU:N	1:B:94:LEU:HD12	2.35	0.42
2:C:139:GLN:HG2	2:C:140:ILE:N	2.34	0.42
2:C:198:ARG:C	2:C:200:LEU:H	2.22	0.42
2:C:297:GLU:O	2:C:297:GLU:OE1	2.37	0.42
2:C:317:VAL:HG13	2:C:319:GLY:O	2.19	0.42
2:C:395:LYS:O	2:C:633:GLN:NE2	2.51	0.42
2:C:835:VAL:HA	2:C:849:VAL:HG12	2.01	0.42
3:D:1031:ASN:OD1	3:D:1033:GLN:N	2.50	0.42
3:D:419:ASP:O	3:D:421:LEU:N	2.53	0.42
3:D:719:VAL:O	3:D:720:LEU:C	2.57	0.42
5:F:229:TYR:CE1	5:F:230:LYS:HG3	2.54	0.42
1:L:103:ALA:N	1:L:138:LEU:O	2.45	0.42
2:M:341:THR:O	2:M:345:ARG:HB2	2.19	0.42
2:M:517:ARG:O	2:M:519:GLY:N	2.52	0.42
2:M:720:GLU:HA	2:M:759:THR:O	2.19	0.42
2:M:897:LEU:CB	2:M:899:GLN:HE21	2.30	0.42
2:M:946:ARG:CD	2:M:984:GLU:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1158:VAL:CG1	3:N:1159:ARG:H	2.26	0.42
3:N:1166:LEU:CD2	3:N:1166:LEU:H	2.32	0.42
3:N:1435:LEU:C	3:N:1437:ALA:N	2.73	0.42
3:N:126:VAL:HG11	3:N:152:LEU:HD13	2.00	0.42
3:N:196:VAL:CG1	3:N:202:VAL:HG13	2.49	0.42
3:N:240:GLU:HG3	3:N:240:GLU:O	2.19	0.42
3:N:209:ARG:HH21	3:N:397:LYS:HG3	1.81	0.42
3:N:30:GLU:OE2	3:N:41:ARG:NH2	2.52	0.42
3:N:685:ASP:O	3:N:687:VAL:N	2.52	0.42
3:N:76:CYS:O	3:N:78:VAL:N	2.52	0.42
1:L:176:ARG:NH1	3:N:884:ARG:HD3	2.31	0.42
3:N:941:PHE:O	3:N:945:SER:OG	2.26	0.42
3:N:95:LEU:HA	3:N:551:ASN:HD21	1.85	0.42
4:O:54:LEU:O	4:O:54:LEU:CD2	2.67	0.42
5:P:188:ILE:CD1	5:P:224:VAL:HG21	2.50	0.42
5:P:305:GLU:HG2	5:P:309:LYS:HE3	2.01	0.42
5:P:372:ARG:HB3	5:P:378:GLY:O	2.18	0.42
1:A:184:THR:HG22	1:A:192:LEU:O	2.19	0.42
1:A:14:ARG:HH12	1:A:24:VAL:CG2	2.33	0.42
1:B:124:ASN:N	1:B:125:PRO:HD3	2.34	0.42
2:C:3:ILE:CD1	2:C:900:ARG:HG3	2.49	0.42
2:C:420:ARG:HB2	2:C:421:GLU:H	1.60	0.42
2:C:496:ILE:HA	2:C:531:PHE:O	2.19	0.42
2:C:544:THR:O	2:C:547:ILE:HD12	2.19	0.42
2:C:983:ILE:O	2:C:985:GLY:N	2.52	0.42
3:D:1128:VAL:O	3:D:1129:THR:CG2	2.67	0.42
3:D:145:VAL:HG22	3:D:146:PRO:CD	2.22	0.42
3:D:1474:ALA:O	3:D:1475:GLY:C	2.57	0.42
3:D:171:LEU:HA	3:D:172:PRO:HD3	1.71	0.42
3:D:396:VAL:CG1	3:D:446:VAL:H	2.32	0.42
3:D:520:LEU:HD23	3:D:540:LEU:HD13	2.01	0.42
3:D:598:ARG:NH1	3:D:598:ARG:HG2	2.34	0.42
3:D:907:GLU:CG	3:D:908:LYS:N	2.53	0.42
5:F:108:GLU:HG3	5:F:176:ILE:HG21	2.01	0.42
3:D:533:GLY:CA	5:F:309:LYS:HB3	2.44	0.42
1:L:206:THR:HG22	1:L:209:GLU:CD	2.39	0.42
2:M:1085:PHE:HD2	2:M:1088:LEU:HD23	1.84	0.42
2:M:157:ARG:HG3	2:M:157:ARG:HH11	1.85	0.42
2:M:244:PRO:CG	2:M:245:GLY:N	2.82	0.42
2:M:249:LYS:O	2:M:251:ASP:N	2.52	0.42
2:M:311:PHE:HA	2:M:314:THR:OG1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:351:LEU:O	2:M:355:VAL:HG12	2.20	0.42
2:M:526:PRO:HD2	2:M:527:GLU:OE2	2.18	0.42
2:M:630:ARG:CG	2:M:630:ARG:HH11	2.32	0.42
3:N:1262:LEU:HD23	3:N:1352:ILE:CG1	2.46	0.42
3:N:217:LYS:H	3:N:217:LYS:CD	2.32	0.42
3:N:224:ARG:HD2	3:N:225:LEU:N	2.35	0.42
3:N:457:GLY:O	3:N:459:GLU:N	2.53	0.42
3:N:496:LEU:O	3:N:500:ARG:HG2	2.18	0.42
2:M:1005:MET:HB2	3:N:629:SER:HB2	2.01	0.42
3:N:700:VAL:CG2	3:N:718:PRO:HG3	2.46	0.42
4:O:25:LYS:O	4:O:29:GLN:HG2	2.19	0.42
5:P:164:LYS:C	5:P:166:LEU:H	2.23	0.42
5:P:365:GLU:HA	5:P:368:VAL:HG23	2.01	0.42
1:B:7:LYS:CE	1:B:186:LEU:HD13	2.50	0.42
2:C:246:ASP:HA	2:C:247:PRO:HD3	1.77	0.42
2:C:455:LEU:HD13	2:C:456:ALA:O	2.19	0.42
2:C:71:TYR:CD2	2:C:71:TYR:N	2.86	0.42
2:C:734:LEU:O	2:C:737:LEU:N	2.50	0.42
2:C:918:LEU:HD23	2:C:968:LEU:O	2.19	0.42
2:C:964:LYS:C	2:C:968:LEU:HD12	2.40	0.42
3:D:1065:LEU:HD11	3:D:1069:GLU:HB3	2.00	0.42
3:D:116:LEU:HA	3:D:116:LEU:HD23	1.94	0.42
3:D:128:TYR:CE1	3:D:461:ILE:HG13	2.54	0.42
3:D:1294:VAL:O	3:D:1300:SER:HA	2.19	0.42
3:D:218:LYS:HD3	3:D:372:ASP:N	2.32	0.42
3:D:368:VAL:CG1	3:D:369:ALA:H	2.28	0.42
3:D:701:LEU:O	3:D:747:VAL:HA	2.19	0.42
3:D:756:GLN:O	3:D:760:ARG:HG2	2.19	0.42
5:F:205:ARG:HH11	5:F:251:ILE:HG21	1.85	0.42
5:F:221:ILE:C	5:F:223:ALA:N	2.72	0.42
1:K:143:ARG:HG2	1:K:144:VAL:H	1.84	0.42
1:L:137:ARG:NH1	1:L:139:ASN:HB3	2.28	0.42
2:M:1015:LEU:CD1	2:M:1016:ILE:HG23	2.49	0.42
2:M:1053:LEU:N	2:M:1053:LEU:HD22	2.35	0.42
2:M:246:ASP:HA	2:M:247:PRO:HD3	1.81	0.42
2:M:27:ARG:NH1	2:M:27:ARG:HB3	2.34	0.42
2:M:313:LEU:C	2:M:315:ALA:N	2.73	0.42
2:M:627:ARG:CZ	2:M:627:ARG:HB3	2.49	0.42
2:M:893:ALA:O	2:M:895:TYR:N	2.53	0.42
3:N:133:ILE:HD12	3:N:158:TYR:CD2	2.55	0.42
3:N:438:ASP:O	3:N:441:ARG:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:783:ARG:O	3:N:785:ILE:N	2.52	0.42
3:N:789:LEU:C	3:N:792:ILE:HG22	2.38	0.42
5:P:101:GLU:O	5:P:105:LYS:HG3	2.19	0.42
1:A:97:VAL:HG11	1:A:120:VAL:HG21	2.02	0.42
1:A:102:LYS:HA	1:A:139:ASN:HA	2.01	0.42
1:A:206:THR:HG22	1:A:208:LEU:H	1.82	0.42
1:A:73:GLU:HG3	1:A:130:ALA:CB	2.49	0.42
2:C:313:LEU:C	2:C:315:ALA:N	2.72	0.42
2:C:438:ILE:CG2	2:C:453:THR:OG1	2.68	0.42
2:C:524:VAL:CG2	2:C:525:SER:H	2.17	0.42
2:C:497:ALA:N	2:C:531:PHE:O	2.41	0.42
2:C:903:SER:O	2:C:904:PRO:O	2.37	0.42
3:D:1280:VAL:CG1	3:D:1281:VAL:H	2.17	0.42
3:D:247:GLU:N	3:D:248:PRO:CD	2.83	0.42
3:D:32:ILE:HD12	3:D:527:MET:CG	2.47	0.42
3:D:470:LEU:O	3:D:471:GLU:C	2.58	0.42
3:D:646:LYS:O	3:D:649:ALA:N	2.53	0.42
3:D:667:ALA:HA	3:D:668:PRO:HD3	1.91	0.42
5:F:141:VAL:O	5:F:145:PRO:CG	2.59	0.42
5:F:231:ARG:O	5:F:233:PHE:N	2.53	0.42
5:F:287:THR:C	5:F:289:GLU:N	2.72	0.42
5:F:416:ARG:CZ	5:F:419:ARG:CG	2.98	0.42
1:K:20:TYR:HE2	1:K:198:ARG:HB3	1.84	0.42
1:K:44:LEU:HD13	1:K:177:VAL:HG21	2.00	0.42
1:K:85:LEU:HD11	1:K:87:VAL:HG12	2.02	0.42
1:L:58:ILE:HD13	1:L:140:MET:HB3	1.98	0.42
2:M:1114:GLY:O	2:M:1116:ALA:N	2.50	0.42
2:M:187:ASN:HB3	2:M:188:LYS:H	1.66	0.42
2:M:865:THR:HA	2:M:866:PRO:HD3	1.76	0.42
2:M:872:ASN:HA	2:M:873:PRO:HD3	1.87	0.42
3:N:1175:ILE:O	3:N:1175:ILE:HG22	2.20	0.42
3:N:1483:PHE:N	3:N:1483:PHE:CD1	2.88	0.42
3:N:196:VAL:HG13	3:N:202:VAL:CG1	2.48	0.42
3:N:233:LYS:O	3:N:238:PRO:HD3	2.19	0.42
3:N:470:LEU:O	3:N:474:GLU:N	2.46	0.42
3:N:491:LYS:HD3	3:N:491:LYS:O	2.20	0.42
3:N:653:PHE:CE2	3:N:695:ILE:CD1	3.03	0.42
3:N:799:LYS:O	3:N:799:LYS:CD	2.57	0.42
3:N:989:TYR:O	3:N:992:ILE:HB	2.18	0.42
4:O:93:TYR:HA	4:O:94:PRO:HD3	1.62	0.42
5:P:171:LYS:O	5:P:174:LEU:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:P:229:TYR:C	5:P:231:ARG:N	2.71	0.42
1:A:7:LYS:HG2	1:A:7:LYS:O	2.19	0.42
1:B:150:TYR:OH	1:B:168:ASP:HB3	2.20	0.42
1:B:86:VAL:O	1:B:86:VAL:HG13	2.20	0.42
2:C:1059:ASP:CG	2:C:1062:GLY:H	2.22	0.42
2:C:1078:GLU:HA	2:C:1079:PRO:HD3	1.87	0.42
2:C:1098:ASP:HB2	3:D:13:ALA:HB2	2.02	0.42
2:C:148:PHE:HB3	2:C:313:LEU:CD2	2.50	0.42
2:C:611:ILE:HD12	2:C:625:LEU:HD21	2.01	0.42
2:C:602:GLU:N	2:C:614:ARG:O	2.50	0.42
2:C:691:SER:HB2	2:C:858:MET:SD	2.60	0.42
2:C:751:PRO:HG3	2:C:796:GLU:HA	2.01	0.42
3:D:1195:GLN:HG2	3:D:1196:THR:N	2.34	0.42
3:D:1340:GLY:O	3:D:1343:ALA:HB3	2.19	0.42
3:D:1366:LYS:O	3:D:1370:ILE:HG12	2.19	0.42
3:D:137:PRO:O	3:D:138:LYS:C	2.58	0.42
3:D:179:VAL:HG11	3:D:217:LYS:HZ3	1.83	0.42
3:D:631:ILE:HG21	3:D:745:MET:HB2	2.01	0.42
5:F:155:THR:O	5:F:159:ILE:HG13	2.20	0.42
5:F:203:THR:HA	5:F:212:LEU:HD13	2.02	0.42
5:F:262:VAL:O	5:F:266:GLU:HG3	2.19	0.42
1:L:180:GLN:O	1:L:196:THR:CG2	2.68	0.42
1:L:1:MET:N	1:L:1:MET:CE	2.82	0.42
1:L:48:ILE:HA	1:L:49:PRO:HD3	1.72	0.42
2:M:327:HIS:O	2:M:329:GLY:N	2.52	0.42
2:M:462:ASP:OD1	2:M:463:GLU:N	2.53	0.42
2:M:693:GLU:HG3	2:M:697:ARG:NH1	2.34	0.42
2:M:72:ARG:HG3	2:M:72:ARG:HH11	1.84	0.42
2:M:86:LYS:CG	2:M:813:VAL:HG12	2.28	0.42
1:K:182:GLU:C	2:M:938:LYS:HZ2	2.23	0.42
3:N:1117:TYR:N	3:N:1117:TYR:HD2	2.17	0.42
3:N:1146:GLY:HA3	3:N:1207:TYR:CD1	2.55	0.42
3:N:1214:PRO:O	3:N:1215:VAL:C	2.56	0.42
3:N:559:ALA:O	3:N:561:GLY:N	2.53	0.42
3:N:710:ARG:HG3	3:N:711:LEU:N	2.34	0.42
3:N:798:GLU:HG2	3:N:799:LYS:H	1.85	0.42
3:N:810:GLU:C	3:N:813:LEU:HG	2.40	0.42
4:O:14:ASP:OD1	4:O:18:ARG:NH1	2.53	0.42
5:P:319:THR:HG22	5:P:320:PRO:N	2.34	0.42
1:A:111:ALA:O	1:A:112:ARG:C	2.58	0.42
2:C:1016:ILE:CD1	2:C:1016:ILE:N	2.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1077:PRO:O	2:C:1078:GLU:C	2.58	0.42
2:C:865:THR:HA	2:C:866:PRO:HD3	1.59	0.42
3:D:171:LEU:HB2	3:D:390:PRO:HG3	2.01	0.42
3:D:217:LYS:HZ1	3:D:389:GLU:CB	2.33	0.42
3:D:220:ARG:CA	3:D:367:ILE:HG22	2.49	0.42
3:D:827:ILE:HG23	3:D:837:GLY:HA2	2.02	0.42
5:F:264:MET:O	5:F:268:ILE:HG13	2.19	0.42
1:K:189:ARG:NH1	1:L:155:LYS:HZ1	2.18	0.42
1:K:97:VAL:HG12	1:K:99:LEU:HD12	2.02	0.42
1:L:188:GLN:HG3	1:L:189:ARG:N	2.32	0.42
1:L:91:ASN:HA	1:L:92:PRO:HD3	1.83	0.42
2:M:401:LEU:O	2:M:404:LEU:HB3	2.20	0.42
2:M:675:ALA:O	2:M:870:ILE:HA	2.20	0.42
2:M:704:HIS:O	2:M:828:ALA:HA	2.20	0.42
2:M:722:ILE:HG21	2:M:821:GLU:OE1	2.20	0.42
2:M:833:LEU:HD12	2:M:837:ASP:OD1	2.20	0.42
2:M:899:GLN:HG3	2:M:901:TYR:CE2	2.55	0.42
2:M:971:LYS:HA	2:M:988:VAL:HA	2.01	0.42
3:N:1155:VAL:C	3:N:1157:GLY:H	2.19	0.42
2:M:1046:ALA:CB	3:N:1476:THR:HB	2.49	0.42
3:N:428:LYS:HD3	3:N:451:ASP:OD1	2.19	0.42
3:N:806:PHE:CE1	3:N:813:LEU:HD23	2.54	0.42
3:N:825:ALA:HB1	3:N:829:VAL:HG21	2.02	0.42
4:O:45:ARG:HB3	4:O:46:PRO:HD2	2.01	0.42
3:N:459:GLU:OE1	5:P:144:ILE:HD12	2.19	0.42
2:M:370:ALA:CB	5:P:280:GLN:HA	2.50	0.42
5:P:400:ILE:O	5:P:404:ALA:N	2.51	0.42
1:A:101:LEU:HD23	1:A:102:LYS:N	2.35	0.42
1:A:67:THR:HG21	2:C:609:ASN:HD21	1.84	0.42
1:A:79:ILE:C	1:A:79:ILE:HD12	2.40	0.42
1:A:89:PHE:CE2	1:A:94:LEU:O	2.72	0.42
1:B:86:VAL:CG1	1:B:123:MET:HB2	2.46	0.42
2:C:149:THR:CG2	2:C:150:PRO:HD2	2.49	0.42
2:C:19:THR:HG22	2:C:23:VAL:HG23	2.02	0.42
2:C:52:PHE:CB	2:C:53:PRO:HD3	2.50	0.42
2:C:589:ARG:HB2	2:C:589:ARG:HH11	1.85	0.42
2:C:972:VAL:CG2	2:C:974:LEU:HD13	2.50	0.42
3:D:207:PHE:HB3	3:D:395:VAL:CG2	2.50	0.42
3:D:44:LEU:O	3:D:50:PHE:CE1	2.73	0.42
3:D:750:PRO:HG2	3:D:750:PRO:O	2.20	0.42
4:E:60:ALA:O	4:E:63:TRP:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:84:TYR:CZ	5:F:192:LEU:HD22	2.55	0.42
1:L:186:LEU:C	1:L:186:LEU:HD23	2.39	0.42
2:M:135:VAL:HG12	2:M:136:ILE:N	2.35	0.42
2:M:137:VAL:HG12	2:M:138:SER:N	2.34	0.42
2:M:150:PRO:HG3	2:M:158:TYR:CD2	2.55	0.42
2:M:174:LEU:HD23	2:M:184:MET:HA	2.02	0.42
2:M:451:LEU:HD23	2:M:451:LEU:HA	1.92	0.42
2:M:625:LEU:HD11	2:M:641:PRO:HG3	2.01	0.42
2:M:856:GLU:HG3	2:M:856:GLU:H	1.54	0.42
2:M:971:LYS:HD2	2:M:986:PRO:O	2.20	0.42
3:N:1031:ASN:HB3	3:N:1034:GLN:HB2	2.01	0.42
2:M:432:ARG:CZ	3:N:1048:PRO:HD2	2.50	0.42
3:N:1158:VAL:HG21	3:N:1173:LEU:HD21	2.01	0.42
3:N:1486:VAL:HG21	4:O:22:VAL:HG13	2.02	0.42
3:N:159:ARG:NH1	3:N:159:ARG:HG3	2.34	0.42
3:N:179:VAL:HG11	3:N:217:LYS:CE	2.50	0.42
3:N:564:GLU:CG	3:N:565:ILE:HD12	2.40	0.42
3:N:619:LEU:HD23	3:N:619:LEU:O	2.20	0.42
3:N:757:ALA:HB1	3:N:761:ILE:HD12	2.01	0.42
3:N:939:PHE:O	3:N:943:THR:HG22	2.20	0.42
4:O:51:LEU:O	4:O:52:GLU:CD	2.58	0.42
3:N:423:ASP:CG	5:P:175:HIS:HA	2.40	0.42
5:P:305:GLU:O	5:P:309:LYS:HG3	2.20	0.42
5:P:94:LEU:HB2	5:P:98:GLU:OE1	2.20	0.42
1:A:124:ASN:CG	1:A:127:LEU:HD23	2.41	0.42
1:A:18:ARG:HD3	1:A:123:MET:HE1	2.02	0.42
1:A:206:THR:HB	1:A:209:GLU:HB2	2.01	0.42
1:B:42:ARG:HH11	1:B:42:ARG:HG2	1.85	0.42
2:C:1095:LEU:HA	3:D:582:LEU:CD2	2.50	0.42
2:C:493:ARG:HD2	2:C:494:TYR:OH	2.20	0.42
2:C:49:ARG:NH1	2:C:49:ARG:CB	2.69	0.42
2:C:639:GLN:HA	2:C:657:ASP:O	2.20	0.42
2:C:725:ASP:N	2:C:725:ASP:OD2	2.53	0.42
3:D:1076:GLY:CA	3:D:1079:LYS:HG2	2.48	0.42
3:D:1356:TYR:CD2	3:D:1363:LEU:HD23	2.55	0.42
3:D:179:VAL:CG1	3:D:217:LYS:HZ1	2.33	0.42
3:D:413:ASP:OD2	3:D:419:ASP:HB3	2.19	0.42
3:D:653:PHE:CD1	3:D:653:PHE:N	2.84	0.42
3:D:729:HIS:CE1	3:D:731:LEU:HG	2.44	0.42
5:F:419:ARG:HG3	5:F:420:ASP:N	2.34	0.42
1:K:211:LEU:O	1:K:215:VAL:HG13	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1008:ARG:HG2	2:M:1008:ARG:HH11	1.85	0.42
2:M:1055:LEU:O	2:M:1063:ARG:HB3	2.19	0.42
2:M:188:LYS:HD3	2:M:189:ARG:CA	2.47	0.42
2:M:266:ARG:HG3	2:M:266:ARG:NH1	2.34	0.42
2:M:343:GLN:HE21	2:M:343:GLN:HB2	1.65	0.42
2:M:774:LEU:C	2:M:774:LEU:HD13	2.40	0.42
2:M:516:ARG:CD	3:N:1068:LEU:HD13	2.47	0.42
3:N:1128:VAL:O	3:N:1129:THR:C	2.57	0.42
3:N:137:PRO:HG2	3:N:453:ASP:HB3	2.02	0.42
3:N:212:ARG:HB2	3:N:445:ARG:HH21	1.85	0.42
3:N:225:LEU:HB2	3:N:227:LEU:CD1	2.50	0.42
3:N:45:PHE:HD1	3:N:522:PRO:HB3	1.85	0.42
3:N:477:LEU:O	3:N:481:MET:HB2	2.20	0.42
3:N:930:LEU:HG	3:N:934:LEU:HD12	2.02	0.42
3:N:948:THR:O	3:N:1019:PRO:HB3	2.20	0.42
3:N:924:MET:CB	4:O:7:ASP:OD2	2.66	0.42
3:N:455:ARG:NH2	5:P:140:ARG:HB2	2.27	0.42
3:N:598:ARG:NH2	5:P:316:SER:OG	2.52	0.42
5:P:338:LEU:HA	5:P:339:PRO:HD3	1.76	0.42
1:B:114:PHE:O	1:B:116:PRO:HD3	2.19	0.41
2:C:101:ILE:HG23	2:C:107:LEU:CD2	2.48	0.41
2:C:1059:ASP:OD2	2:C:1080:SER:N	2.46	0.41
2:C:188:LYS:HE2	2:C:188:LYS:CA	2.50	0.41
2:C:27:ARG:C	2:C:29:ALA:N	2.73	0.41
2:C:266:ARG:H	2:C:288:ARG:CD	2.32	0.41
2:C:395:LYS:CE	2:C:403:SER:HB2	2.50	0.41
2:C:395:LYS:CE	2:C:407:LYS:NZ	2.76	0.41
2:C:816:LYS:HB2	2:C:819:VAL:CG2	2.50	0.41
2:C:923:GLU:O	2:C:926:PHE:N	2.52	0.41
1:A:198:ARG:NH2	2:C:934:PHE:HE1	2.17	0.41
2:C:961:GLU:HA	2:C:961:GLU:OE1	2.19	0.41
3:D:1207:TYR:CD1	3:D:1212:ALA:O	2.73	0.41
3:D:1331:ASP:OD2	3:D:1332:PRO:N	2.52	0.41
3:D:1101:VAL:CG2	3:D:1424:VAL:HG13	2.46	0.41
2:C:1053:LEU:HG	3:D:1466:VAL:HG13	2.01	0.41
3:D:202:VAL:HG12	3:D:204:LEU:HD21	2.02	0.41
3:D:653:PHE:CD1	3:D:695:ILE:HD11	2.54	0.41
3:D:894:LYS:O	3:D:897:TRP:N	2.48	0.41
5:F:151:LEU:HB2	5:F:155:THR:N	2.21	0.41
5:F:248:ASN:O	5:F:251:ILE:HB	2.20	0.41
5:F:321:ILE:HG22	5:F:327:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:362:SER:O	5:F:364:ARG:N	2.53	0.41
1:L:92:PRO:C	1:L:94:LEU:N	2.72	0.41
2:M:1004:LYS:O	2:M:1006:HIS:ND1	2.53	0.41
2:M:1034:GLU:HA	2:M:1037:VAL:CG2	2.50	0.41
2:M:208:ALA:HB1	2:M:222:MET:CE	2.49	0.41
2:M:277:ALA:O	2:M:281:LEU:O	2.38	0.41
2:M:340:MET:O	2:M:340:MET:SD	2.77	0.41
2:M:397:GLU:HG3	2:M:632:ASN:H	1.85	0.41
2:M:762:LYS:CG	2:M:763:GLY:H	2.31	0.41
3:N:1023:MET:HB3	3:N:1029:ARG:O	2.20	0.41
3:N:1090:ASP:O	3:N:1093:TYR:N	2.53	0.41
3:N:1187:PRO:O	3:N:1187:PRO:HG2	2.19	0.41
3:N:382:GLU:C	3:N:384:VAL:H	2.24	0.41
3:N:486:ARG:NH2	3:N:489:ARG:CZ	2.83	0.41
3:N:637:LEU:CD1	3:N:641:GLN:HB2	2.50	0.41
3:N:703:ASN:HA	3:N:703:ASN:HD22	1.55	0.41
3:N:902:LEU:C	3:N:904:VAL:H	2.23	0.41
5:P:350:LEU:O	5:P:354:LEU:HG	2.20	0.41
5:P:420:ASP:O	5:P:421:PHE:C	2.59	0.41
5:P:88:ILE:HG21	5:P:193:ARG:CD	2.50	0.41
1:A:168:ASP:OD2	2:C:830:LYS:NZ	2.53	0.41
1:A:24:VAL:HG12	1:A:25:LEU:N	2.35	0.41
1:B:85:LEU:HD11	1:B:122:ILE:HG23	2.02	0.41
1:B:156:HIS:CD2	1:B:157:GLY:N	2.86	0.41
1:B:209:GLU:O	1:B:212:ASN:HB2	2.19	0.41
1:B:212:ASN:HD22	1:B:212:ASN:N	2.18	0.41
1:B:26:GLU:HB2	1:B:27:PRO:HA	2.01	0.41
2:C:1059:ASP:CG	2:C:1080:SER:HB2	2.39	0.41
2:C:564:MET:HG2	2:C:840:ALA:CB	2.50	0.41
1:A:70:GLY:N	2:C:607:ASP:OD2	2.49	0.41
2:C:683:ASN:N	2:C:683:ASN:OD1	2.53	0.41
3:D:1176:LYS:HA	3:D:1179:GLU:CG	2.50	0.41
3:D:179:VAL:CG1	3:D:217:LYS:NZ	2.83	0.41
3:D:221:ALA:HB1	3:D:224:ARG:HD2	2.02	0.41
3:D:508:ARG:HG2	3:D:508:ARG:NH1	2.35	0.41
3:D:994:GLN:HE21	3:D:998:GLU:CG	2.33	0.41
4:E:31:LEU:O	4:E:32:ARG:C	2.58	0.41
4:E:65:MET:O	4:E:69:LEU:HB2	2.20	0.41
5:F:79:ASP:O	5:F:83:GLN:N	2.32	0.41
1:K:179:PHE:O	1:K:180:GLN:CG	2.68	0.41
1:K:209:GLU:O	1:K:213:GLN:NE2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:143:ARG:CD	1:L:158:ILE:HG21	2.50	0.41
1:L:57:TYR:CE1	1:L:163:ASN:HB2	2.53	0.41
2:M:1060:ILE:HG13	2:M:1083:GLU:CG	2.36	0.41
2:M:14:PRO:C	2:M:15:LEU:O	2.56	0.41
2:M:196:LEU:HD12	2:M:238:LEU:HD11	2.02	0.41
2:M:263:ASP:CB	2:M:264:PRO:HD3	2.49	0.41
2:M:670:GLN:NE2	2:M:699:PHE:HA	2.31	0.41
2:M:762:LYS:HB2	2:M:762:LYS:HZ3	1.85	0.41
2:M:798:GLY:H	2:M:827:VAL:HG12	1.83	0.41
2:M:909:ALA:C	2:M:910:LYS:HD2	2.41	0.41
3:N:1166:LEU:HD23	3:N:1166:LEU:H	1.85	0.41
3:N:1284:GLU:HA	3:N:1284:GLU:OE1	2.20	0.41
3:N:1490:LYS:HE3	4:O:39:VAL:HA	2.01	0.41
3:N:428:LYS:CD	3:N:451:ASP:HB3	2.50	0.41
2:M:751:PRO:CG	3:N:680:GLN:HE21	2.33	0.41
3:N:790:TYR:CD2	3:N:1026:SER:HB3	2.55	0.41
3:N:789:LEU:O	3:N:792:ILE:CG2	2.68	0.41
3:N:845:ASN:H	3:N:848:GLU:HG3	1.85	0.41
5:P:110:MET:O	5:P:112:ALA:N	2.53	0.41
5:P:161:GLN:C	5:P:163:LEU:N	2.72	0.41
5:P:332:PHE:CD1	5:P:332:PHE:N	2.87	0.41
5:P:393:THR:HG22	5:P:394:ARG:N	2.34	0.41
1:A:101:LEU:O	1:A:102:LYS:HB2	2.19	0.41
1:B:101:LEU:HB2	1:B:114:PHE:CD2	2.55	0.41
2:C:1058:ASP:CG	2:C:1083:GLU:H	2.23	0.41
2:C:200:LEU:C	2:C:202:TYR:H	2.23	0.41
2:C:431:HIS:H	2:C:434:HIS:CE1	2.38	0.41
2:C:559:LEU:O	2:C:560:MET:C	2.58	0.41
2:C:657:ASP:OD2	2:C:662:GLU:O	2.39	0.41
2:C:758:ARG:O	2:C:759:THR:HG23	2.19	0.41
3:D:123:LEU:HD21	3:D:152:LEU:HD22	2.03	0.41
3:D:223:LEU:N	3:D:223:LEU:HD13	2.35	0.41
3:D:554:LEU:O	3:D:557:LEU:HB2	2.20	0.41
3:D:569:ASN:ND2	3:D:573:MET:SD	2.92	0.41
3:D:574:LEU:O	3:D:578:VAL:HG23	2.20	0.41
3:D:675:ARG:HH22	5:F:420:ASP:HB3	1.84	0.41
3:D:794:GLN:NE2	3:D:795:VAL:N	2.66	0.41
3:D:813:LEU:HG	3:D:814:ALA:H	1.85	0.41
3:D:951:ILE:C	3:D:953:ASP:H	2.23	0.41
3:D:956:ILE:HA	3:D:957:PRO:HD3	1.72	0.41
3:D:1485:GLN:NE2	4:E:80:VAL:H	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:350:LEU:HA	5:F:422:LEU:HD12	2.02	0.41
1:L:19:GLU:OE1	1:L:203:GLY:CA	2.68	0.41
2:M:1067:TYR:OH	3:N:674:ARG:NH1	2.53	0.41
2:M:336:VAL:O	2:M:337:GLY:C	2.57	0.41
2:M:345:ARG:C	2:M:347:GLY:H	2.23	0.41
2:M:550:LEU:HD12	2:M:550:LEU:O	2.21	0.41
2:M:574:ALA:O	2:M:575:GLN:CB	2.62	0.41
2:M:583:LEU:O	2:M:585:GLU:N	2.54	0.41
2:M:775:ARG:O	2:M:779:GLY:N	2.53	0.41
2:M:841:ASN:ND2	2:M:843:HIS:HD2	2.16	0.41
2:M:892:LEU:HD21	2:M:967:PHE:CE1	2.54	0.41
3:N:1113:GLY:O	3:N:1115:THR:N	2.53	0.41
3:N:1107:VAL:CG1	3:N:1217:ILE:HA	2.50	0.41
3:N:230:TRP:C	3:N:232:GLU:N	2.73	0.41
3:N:241:ILE:O	3:N:242:LEU:HD23	2.21	0.41
3:N:576:GLU:HA	3:N:579:ASP:OD2	2.20	0.41
3:N:806:PHE:CE1	3:N:809:PRO:O	2.72	0.41
3:N:983:LEU:HD22	3:N:987:GLU:HG2	2.01	0.41
5:P:277:GLN:O	5:P:280:GLN:HB3	2.20	0.41
5:P:392:VAL:HG11	5:P:396:ARG:HD2	2.02	0.41
5:P:77:THR:HG21	5:P:209:PHE:HD2	1.85	0.41
1:B:212:ASN:O	1:B:215:VAL:CG2	2.65	0.41
1:B:25:LEU:C	1:B:25:LEU:CD2	2.85	0.41
1:B:62:LEU:HD12	1:B:63:HIS:H	1.85	0.41
2:C:1095:LEU:HD23	3:D:582:LEU:HA	2.01	0.41
2:C:144:PRO:HA	2:C:163:ILE:HG23	2.01	0.41
2:C:810:ASP:HA	2:C:811:PRO:HD3	1.79	0.41
2:C:548:PRO:HG3	2:C:842:ARG:NH1	2.35	0.41
3:D:1042:ARG:HH11	3:D:1065:LEU:CD2	2.33	0.41
3:D:1131:SER:O	3:D:1132:LEU:C	2.59	0.41
3:D:1209:LEU:HD22	3:D:1210:SER:H	1.81	0.41
3:D:1198:TYR:CD1	3:D:1460:ILE:HD13	2.56	0.41
3:D:40:GLU:O	3:D:41:ARG:O	2.38	0.41
3:D:566:ILE:HD13	5:F:217:ASN:HB3	2.01	0.41
3:D:729:HIS:HD1	3:D:731:LEU:H	1.68	0.41
3:D:732:VAL:O	3:D:735:ALA:HB3	2.20	0.41
3:D:736:PHE:O	3:D:738:ALA:N	2.53	0.41
5:F:319:THR:O	5:F:329:TYR:HB2	2.20	0.41
1:L:94:LEU:HD11	1:L:119:ASP:HB3	2.02	0.41
1:L:62:LEU:HD13	1:L:63:HIS:H	1.84	0.41
2:M:1092:LEU:HD22	2:M:1099:VAL:HG11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1102:LEU:HD23	2:M:1106:ASP:C	2.41	0.41
2:M:124:ASP:OD1	2:M:407:LYS:HE2	2.21	0.41
2:M:195:LEU:O	2:M:199:VAL:HG23	2.20	0.41
2:M:437:ARG:HA	2:M:467:ILE:HG21	2.02	0.41
2:M:736:ASP:HB3	2:M:743:VAL:HG23	2.01	0.41
2:M:711:GLU:O	2:M:758:ARG:HD2	2.21	0.41
3:N:1004:THR:OG1	3:N:1036:ARG:CD	2.68	0.41
3:N:1031:ASN:HD22	3:N:1032:PRO:CD	2.33	0.41
6:M:1120:STD:H32	3:N:1086:LEU:HA	2.01	0.41
3:N:119:SER:N	3:N:123:LEU:HB2	2.35	0.41
3:N:1372:VAL:HA	3:N:1375:MET:HG3	2.02	0.41
3:N:159:ARG:HH11	3:N:159:ARG:HG3	1.84	0.41
2:M:1048:THR:OG1	3:N:755:ALA:CA	2.68	0.41
4:O:7:ASP:HA	4:O:10:PHE:HD1	1.84	0.41
1:A:115:LEU:HA	1:A:116:PRO:HD3	1.74	0.41
1:A:57:TYR:CE1	1:A:161:ARG:HD3	2.56	0.41
1:A:36:LEU:C	1:A:39:PRO:HD2	2.40	0.41
1:B:29:GLU:O	1:B:32:PHE:HD1	2.03	0.41
1:B:44:LEU:HD22	1:B:199:ILE:HD13	2.02	0.41
2:C:197:LEU:HD22	2:C:202:TYR:CB	2.50	0.41
2:C:299:LYS:O	2:C:299:LYS:HG3	2.20	0.41
2:C:600:ASP:O	2:C:615:TYR:HA	2.20	0.41
1:A:65:PHE:CE1	2:C:799:ILE:HD11	2.55	0.41
2:C:885:ILE:HG13	3:D:949:ILE:HG22	2.03	0.41
3:D:1147:ARG:CD	3:D:1188:VAL:HG21	2.51	0.41
3:D:1262:LEU:C	3:D:1264:GLU:N	2.73	0.41
3:D:135:LEU:HD23	3:D:135:LEU:O	2.21	0.41
3:D:162:ARG:O	3:D:164:GLY:N	2.47	0.41
3:D:171:LEU:C	3:D:171:LEU:HD12	2.41	0.41
3:D:28:LYS:HD3	3:D:41:ARG:CD	2.44	0.41
3:D:388:HIS:ND1	3:D:390:PRO:HD3	2.36	0.41
3:D:477:LEU:O	3:D:481:MET:N	2.52	0.41
3:D:631:ILE:O	3:D:632:VAL:HG23	2.21	0.41
3:D:770:LEU:CD2	3:D:777:PRO:HB3	2.51	0.41
3:D:899:LEU:HD22	3:D:900:ILE:HG23	2.02	0.41
3:D:996:TRP:O	3:D:997:THR:C	2.58	0.41
5:F:239:ALA:O	5:F:240:THR:C	2.59	0.41
5:F:265:VAL:C	5:F:267:THR:N	2.73	0.41
1:K:41:ARG:O	1:K:41:ARG:HG2	2.20	0.41
1:L:180:GLN:HB2	1:L:196:THR:CG2	2.51	0.41
1:L:14:ARG:HH22	1:L:24:VAL:HG21	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:M:1019:GLN:HG2	2:M:1058:ASP:OD2	2.20	0.41
2:M:1043:TYR:CE2	3:N:763:MET:HG3	2.54	0.41
2:M:302:VAL:C	2:M:305:PRO:HD2	2.41	0.41
2:M:311:PHE:HA	2:M:314:THR:HG1	1.86	0.41
2:M:338:GLU:HA	2:M:341:THR:OG1	2.21	0.41
2:M:437:ARG:HG3	2:M:437:ARG:HH11	1.85	0.41
2:M:455:LEU:HD12	2:M:455:LEU:O	2.20	0.41
2:M:569:VAL:HG13	2:M:569:VAL:O	2.20	0.41
2:M:57:GLU:HB3	2:M:58:ASP:H	1.49	0.41
2:M:78:PHE:CD1	2:M:88:LEU:HD13	2.55	0.41
2:M:958:THR:HG23	2:M:961:GLU:CB	2.50	0.41
3:N:957:PRO:CG	3:N:1007:VAL:HA	2.49	0.41
3:N:1170:ASP:O	3:N:1172:HIS:N	2.54	0.41
3:N:1223:ILE:HG22	3:N:1224:VAL:N	2.36	0.41
3:N:1231:GLU:HB3	3:N:1232:PRO:HD3	2.03	0.41
3:N:1237:THR:O	3:N:1238:MET:HB2	2.21	0.41
3:N:1381:VAL:HB	3:N:1389:LEU:O	2.20	0.41
3:N:480:GLU:O	3:N:484:PRO:HD2	2.21	0.41
3:N:547:LEU:O	3:N:550:ARG:HB2	2.20	0.41
3:N:554:LEU:HD22	3:N:570:GLU:CG	2.44	0.41
3:N:731:LEU:HD23	3:N:731:LEU:HA	1.66	0.41
3:N:736:PHE:O	3:N:738:ALA:HB2	2.21	0.41
5:P:98:GLU:O	5:P:102:LEU:HG	2.20	0.41
1:A:82:LEU:C	1:A:84:GLU:N	2.74	0.41
1:B:23:PHE:HB2	1:B:197:LEU:HD23	2.01	0.41
1:B:82:LEU:C	1:B:84:GLU:N	2.73	0.41
2:C:1016:ILE:HG12	2:C:1017:THR:H	1.86	0.41
2:C:25:SER:O	2:C:27:ARG:N	2.54	0.41
2:C:27:ARG:O	2:C:28:ARG:C	2.58	0.41
2:C:267:TYR:OH	2:C:342:ASP:OD1	2.28	0.41
2:C:473:ARG:HB3	2:C:480:THR:OG1	2.21	0.41
2:C:835:VAL:HG23	2:C:849:VAL:O	2.21	0.41
2:C:892:LEU:C	2:C:892:LEU:HD12	2.41	0.41
2:C:923:GLU:C	2:C:925:TYR:N	2.72	0.41
3:D:112:ILE:HD11	3:D:124:GLU:HG2	2.02	0.41
3:D:1290:LEU:C	3:D:1290:LEU:HD23	2.39	0.41
3:D:1372:VAL:O	3:D:1375:MET:N	2.52	0.41
3:D:224:ARG:H	3:D:365:ASP:CB	2.33	0.41
3:D:482:LYS:HA	3:D:489:ARG:NH2	2.36	0.41
3:D:650:LEU:HD13	3:D:688:TRP:CZ3	2.54	0.41
3:D:868:TYR:HA	3:D:868:TYR:HD2	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:63:TRP:O	4:E:64:ALA:C	2.58	0.41
5:F:166:LEU:O	5:F:171:LYS:HB2	2.20	0.41
5:F:85:LEU:HD23	5:F:193:ARG:HD3	2.01	0.41
5:F:78:SER:O	5:F:82:ARG:HB2	2.20	0.41
1:K:124:ASN:N	1:K:125:PRO:CD	2.81	0.41
1:L:75:VAL:O	1:L:77:GLU:N	2.54	0.41
2:M:291:ALA:O	2:M:292:ARG:CB	2.67	0.41
2:M:571:LEU:HD23	2:M:700:TYR:HA	2.03	0.41
2:M:958:THR:CG2	2:M:961:GLU:HB2	2.50	0.41
3:N:1042:ARG:HH22	3:N:1045:MET:CE	2.33	0.41
3:N:1136:LYS:HB2	3:N:1139:ASP:OD1	2.20	0.41
3:N:1198:TYR:OH	3:N:1394:VAL:HG11	2.20	0.41
3:N:218:LYS:O	3:N:370:ALA:HB1	2.21	0.41
3:N:493:ARG:CB	3:N:493:ARG:NH1	2.84	0.41
3:N:55:ASP:C	3:N:57:GLU:H	2.23	0.41
3:N:601:ARG:CD	3:N:613:ARG:NH2	2.80	0.41
3:N:631:ILE:HG21	3:N:745:MET:SD	2.61	0.41
3:N:709:HIS:O	3:N:712:GLY:N	2.36	0.41
3:N:710:ARG:C	3:N:712:GLY:H	2.23	0.41
3:N:804:LEU:CD1	3:N:831:GLY:HA3	2.51	0.41
5:P:134:LYS:C	5:P:135:ILE:HG12	2.39	0.41
5:P:345:ALA:O	5:P:348:SER:OG	2.39	0.41
5:P:365:GLU:HA	5:P:368:VAL:HB	2.03	0.41
1:A:80:LEU:HA	1:A:80:LEU:HD12	1.96	0.41
2:C:1004:LYS:O	2:C:1005:MET:C	2.58	0.41
2:C:1031:ARG:NH1	2:C:1031:ARG:HG2	2.36	0.41
2:C:139:GLN:OE1	2:C:391:LEU:HD22	2.20	0.41
2:C:200:LEU:O	2:C:202:TYR:N	2.54	0.41
2:C:35:PRO:HA	2:C:36:PRO:HD3	1.99	0.41
2:C:602:GLU:C	2:C:614:ARG:HB3	2.40	0.41
2:C:647:GLN:NE2	2:C:650:ARG:NH2	2.69	0.41
2:C:801:VAL:O	2:C:802:ARG:CB	2.68	0.41
2:C:879:ARG:O	2:C:881:ASN:ND2	2.53	0.41
3:D:1096:ARG:NH1	3:D:1096:ARG:CB	2.83	0.41
3:D:378:ILE:N	3:D:378:ILE:CD1	2.78	0.41
3:D:572:ARG:NE	5:F:80:PRO:HG3	2.36	0.41
3:D:638:LYS:N	3:D:641:GLN:OE1	2.54	0.41
3:D:792:ILE:HG12	3:D:793:THR:N	2.31	0.41
3:D:820:GLU:C	3:D:822:ALA:H	2.23	0.41
3:D:984:THR:HG23	3:D:987:GLU:N	2.26	0.41
5:F:129:GLU:O	5:F:132:ARG:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:110:LYS:C	1:K:112:ARG:N	2.74	0.41
1:K:55:SER:C	1:K:56:VAL:HG23	2.41	0.41
2:M:236:ILE:HD13	2:M:248:PRO:O	2.21	0.41
2:M:607:ASP:OD1	2:M:610:ARG:NH1	2.54	0.41
2:M:69:LEU:HB2	2:M:97:ARG:HB2	2.02	0.41
2:M:897:LEU:CD1	2:M:921:ALA:HB2	2.51	0.41
2:M:9:ILE:O	2:M:10:ARG:C	2.59	0.41
3:N:1074:SER:O	3:N:1078:ARG:HG2	2.20	0.41
3:N:109:PRO:O	3:N:110:SER:C	2.59	0.41
3:N:132:TYR:CE2	3:N:154:THR:HG23	2.55	0.41
3:N:186:VAL:O	3:N:211:VAL:HB	2.21	0.41
3:N:29:PRO:HG2	3:N:549:ASN:HD21	1.81	0.41
3:N:428:LYS:NZ	3:N:451:ASP:HB3	2.34	0.41
3:N:486:ARG:HH21	3:N:489:ARG:CZ	2.30	0.41
3:N:553:ARG:O	3:N:554:LEU:C	2.58	0.41
3:N:633:VAL:O	3:N:635:PRO:HD3	2.20	0.41
3:N:637:LEU:HD21	3:N:642:CYS:HA	2.03	0.41
3:N:675:ARG:HA	3:N:678:GLU:CD	2.41	0.41
3:N:699:VAL:HG12	3:N:717:GLN:HG3	2.03	0.41
3:N:783:ARG:HH12	3:N:1029:ARG:HH21	1.69	0.41
3:N:806:PHE:C	3:N:808:THR:N	2.74	0.41
1:A:104:GLU:O	1:A:105:GLY:O	2.38	0.41
1:A:198:ARG:HD3	1:A:200:TRP:CH2	2.56	0.41
1:A:206:THR:HG23	1:A:207:PRO:HD2	2.03	0.41
1:A:220:GLU:O	1:A:223:THR:HB	2.21	0.41
1:B:58:ILE:CG2	1:B:59:GLU:N	2.82	0.41
1:B:92:PRO:C	1:B:94:LEU:H	2.24	0.41
2:C:111:ASP:HB2	2:C:112:GLU:H	1.53	0.41
2:C:121:MET:HB2	2:C:127:PHE:HE2	1.85	0.41
2:C:204:GLN:CD	2:C:222:MET:HA	2.41	0.41
2:C:238:LEU:O	2:C:242:LEU:HD13	2.19	0.41
2:C:289:THR:O	2:C:291:ALA:N	2.53	0.41
2:C:48:PHE:CD2	2:C:52:PHE:HE2	2.38	0.41
2:C:602:GLU:CG	2:C:603:VAL:N	2.70	0.41
3:D:1161:GLU:OE2	3:D:1164:ARG:NH1	2.54	0.41
3:D:119:SER:HB2	3:D:123:LEU:CA	2.48	0.41
3:D:1264:GLU:OE2	3:D:1425:THR:CB	2.66	0.41
3:D:10:ILE:CD1	3:D:1434:TRP:CE2	3.04	0.41
3:D:684:LYS:C	3:D:686:GLU:H	2.23	0.41
3:D:775:GLY:CA	3:D:1145:TYR:HE1	2.34	0.41
3:D:770:LEU:HD21	3:D:919:PHE:HD1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:41:GLU:N	4:E:42:PRO:CD	2.83	0.41
4:E:51:LEU:HD12	4:E:51:LEU:C	2.40	0.41
3:D:34:TYR:CE2	5:F:261:PRO:HD3	2.56	0.41
5:F:406:ARG:O	5:F:409:LYS:HG2	2.21	0.41
1:L:44:LEU:HD23	1:L:48:ILE:CD1	2.51	0.41
2:M:146:VAL:HG12	2:M:162:ILE:CA	2.38	0.41
2:M:564:MET:CG	2:M:840:ALA:HB3	2.50	0.41
2:M:589:ARG:HD3	2:M:596:TYR:CE2	2.55	0.41
2:M:592:LEU:HD23	2:M:592:LEU:HA	1.77	0.41
2:M:607:ASP:HB2	2:M:610:ARG:H	1.86	0.41
2:M:681:GLY:C	2:M:683:ASN:N	2.73	0.41
3:N:1055:VAL:HA	3:N:1056:PRO:HD3	1.92	0.41
3:N:1094:LEU:O	3:N:1095:THR:C	2.59	0.41
3:N:169:TYR:N	3:N:170:PRO:HD3	2.36	0.41
3:N:179:VAL:CG1	3:N:217:LYS:NZ	2.75	0.41
3:N:430:ASP:HB3	3:N:431:VAL:H	1.66	0.41
3:N:162:ARG:CA	3:N:434:ARG:HH21	2.33	0.41
3:N:496:LEU:HD21	3:N:500:ARG:HE	1.86	0.41
3:N:504:ASP:C	3:N:506:GLY:N	2.73	0.41
2:M:1067:TYR:HE1	3:N:655:PRO:HG3	1.85	0.41
3:N:757:ALA:O	3:N:758:GLU:C	2.58	0.41
3:N:788:GLY:O	3:N:792:ILE:HG22	2.21	0.41
3:N:92:HIS:HA	3:N:519:VAL:HG23	2.03	0.41
3:N:996:TRP:CD2	3:N:1056:PRO:CG	3.04	0.41
4:O:92:ILE:HG22	4:O:92:ILE:O	2.21	0.41
1:A:183:ASP:HA	1:A:192:LEU:O	2.21	0.41
1:B:185:ARG:NH2	3:D:689:ASP:OD1	2.54	0.41
2:C:97:ARG:HA	2:C:111:ASP:HA	2.03	0.41
2:C:251:ASP:HB3	2:C:252:LYS:H	1.59	0.41
2:C:284:ARG:O	2:C:301:GLU:HG2	2.21	0.41
2:C:544:THR:C	2:C:546:LEU:H	2.24	0.41
2:C:710:ILE:HD11	2:C:758:ARG:NE	2.36	0.41
2:C:3:ILE:HD13	2:C:900:ARG:HB2	2.02	0.41
2:C:981:GLU:HA	2:C:982:PRO:HD3	1.68	0.41
2:C:946:ARG:NH1	2:C:984:GLU:HB2	2.35	0.41
3:D:1383:ASP:HB3	3:D:1416:ALA:H	1.85	0.41
3:D:1417:TRP:CD1	3:D:1417:TRP:C	2.93	0.41
3:D:34:TYR:O	3:D:36:THR:N	2.54	0.41
3:D:218:LYS:CD	3:D:370:ALA:HA	2.50	0.41
3:D:416:ALA:N	3:D:417:PRO:CD	2.84	0.41
3:D:50:PHE:O	3:D:86:ARG:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:50:PHE:HB2	3:D:522:PRO:HG2	2.03	0.41
3:D:606:ILE:H	3:D:606:ILE:HG13	1.60	0.41
3:D:619:LEU:O	3:D:619:LEU:HD23	2.20	0.41
3:D:806:PHE:O	3:D:807:ALA:C	2.58	0.41
3:D:842:VAL:C	3:D:843:PHE:CD2	2.93	0.41
3:D:895:VAL:O	3:D:898:GLU:N	2.54	0.41
4:E:93:TYR:HA	4:E:94:PRO:HD3	1.68	0.41
5:F:144:ILE:N	5:F:145:PRO:CD	2.84	0.41
5:F:215:GLU:HA	5:F:215:GLU:OE1	2.21	0.41
5:F:234:LYS:HD3	5:F:235:PHE:H	1.85	0.41
5:F:420:ASP:O	5:F:421:PHE:C	2.59	0.41
1:L:195:LEU:HD12	1:L:195:LEU:C	2.40	0.41
2:M:1007:ALA:HB2	3:N:648:MET:CG	2.44	0.41
2:M:97:ARG:NH2	2:M:109:LYS:NZ	2.69	0.41
2:M:122:THR:CG2	2:M:123:GLU:N	2.84	0.41
2:M:549:PHE:HB3	2:M:552:HIS:HD2	1.81	0.41
2:M:874:LEU:O	2:M:876:VAL:N	2.53	0.41
2:M:985:GLY:O	2:M:987:ILE:HD13	2.20	0.41
3:N:1068:LEU:O	3:N:1069:GLU:C	2.60	0.41
6:M:1120:STD:H312	3:N:1086:LEU:HB2	2.02	0.41
3:N:1094:LEU:HD13	3:N:1260:ILE:CD1	2.51	0.41
3:N:1413:THR:O	3:N:1414:PRO:C	2.59	0.41
3:N:513:ILE:HD12	3:N:513:ILE:H	1.85	0.41
3:N:560:GLN:NE2	3:N:560:GLN:CA	2.82	0.41
3:N:574:LEU:O	3:N:578:VAL:CG2	2.68	0.41
3:N:613:ARG:HG2	3:N:613:ARG:O	2.20	0.41
3:N:892:ASP:HB3	3:N:895:VAL:CB	2.48	0.41
5:P:88:ILE:HG22	5:P:193:ARG:HH11	1.83	0.41
5:P:365:GLU:HG2	5:P:397:ILE:HG12	2.02	0.41
1:A:17:GLY:C	1:A:19:GLU:N	2.74	0.41
1:A:182:GLU:O	1:A:183:ASP:C	2.59	0.41
1:A:9:PRO:HB3	1:A:25:LEU:HD23	2.03	0.41
1:B:33:GLY:O	1:B:195:LEU:HD13	2.21	0.41
2:C:1115:LEU:HD12	2:C:1115:LEU:N	2.20	0.41
2:C:449:ILE:HG22	2:C:450:GLY:N	2.35	0.41
2:C:547:ILE:HA	2:C:548:PRO:HD3	1.84	0.41
2:C:787:ASP:O	2:C:787:ASP:CG	2.58	0.41
3:D:1084:THR:C	3:D:1086:LEU:H	2.24	0.41
3:D:1124:GLN:HA	3:D:1125:PRO:HD3	1.74	0.41
3:D:1164:ARG:HG3	3:D:1164:ARG:HH11	1.86	0.41
3:D:119:SER:HB2	3:D:123:LEU:CB	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:119:SER:H	3:D:123:LEU:CB	2.25	0.41
3:D:1197:ARG:HD3	3:D:1396:GLU:HB3	2.03	0.41
3:D:139:GLY:CA	3:D:452:ILE:HD12	2.50	0.41
2:C:1030:GLN:NE2	3:D:628:ARG:HE	2.18	0.41
3:D:699:VAL:HG12	3:D:717:GLN:HA	2.03	0.41
3:D:701:LEU:C	3:D:702:LEU:HD12	2.41	0.41
3:D:708:LEU:HD23	3:D:708:LEU:N	2.34	0.41
3:D:729:HIS:O	3:D:732:VAL:HG22	2.20	0.41
3:D:74:GLU:HB2	3:D:75:ARG:HH11	1.85	0.41
3:D:976:GLN:C	3:D:978:TYR:N	2.75	0.41
3:D:984:THR:H	3:D:987:GLU:HB2	1.86	0.41
5:F:335:ASP:OD1	5:F:336:GLU:N	2.54	0.41
3:D:572:ARG:NH1	5:F:79:ASP:OD2	2.54	0.41
2:M:252:LYS:HB3	2:M:256:TYR:CE1	2.56	0.41
2:M:266:ARG:O	2:M:272:ALA:CB	2.56	0.41
2:M:47:ALA:HB2	2:M:345:ARG:NH1	2.35	0.41
2:M:545:ASN:HA	2:M:905:ILE:CG2	2.50	0.41
2:M:565:GLN:C	2:M:567:GLN:H	2.24	0.41
2:M:681:GLY:C	2:M:683:ASN:H	2.23	0.41
2:M:981:GLU:HB3	2:M:982:PRO:HD2	2.02	0.41
3:N:1007:VAL:CG2	3:N:1008:PHE:N	2.83	0.41
3:N:1289:LYS:HD3	3:N:1306:PRO:HA	2.03	0.41
3:N:1323:GLN:HA	3:N:1324:PRO:HD3	1.92	0.41
3:N:185:VAL:HG12	3:N:189:GLN:HB3	2.03	0.41
3:N:219:GLU:HG3	3:N:220:ARG:HG3	2.03	0.41
3:N:246:PRO:HB2	3:N:247:GLU:H	1.59	0.41
3:N:231:VAL:HG12	3:N:378:ILE:HG23	2.02	0.41
3:N:401:TYR:N	3:N:402:PRO:HD3	2.35	0.41
3:N:40:GLU:O	3:N:41:ARG:O	2.39	0.41
3:N:478:LEU:CD2	3:N:1388:ARG:NH1	2.84	0.41
3:N:618:LEU:HA	3:N:618:LEU:HD23	1.78	0.41
3:N:653:PHE:O	3:N:654:LYS:C	2.60	0.41
5:P:194:LEU:HD13	5:P:194:LEU:O	2.21	0.41
3:N:388:HIS:CB	5:P:94:LEU:HD21	2.51	0.41
1:A:210:ALA:O	1:A:211:LEU:C	2.59	0.41
1:A:218:LEU:O	1:A:222:LEU:HD23	2.21	0.41
1:A:33:GLY:HA3	1:A:181:VAL:CG2	2.51	0.41
1:B:100:LEU:O	1:B:114:PHE:HA	2.21	0.41
1:B:109:VAL:C	1:B:110:LYS:HG2	2.42	0.41
2:C:233:GLU:CD	2:C:233:GLU:C	2.79	0.41
2:C:343:GLN:HA	2:C:343:GLN:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:3:ILE:CD1	2:C:900:ARG:HB2	2.51	0.41
2:C:464:LEU:HG	2:C:464:LEU:O	2.20	0.41
2:C:474:VAL:HG13	2:C:529:VAL:O	2.21	0.41
2:C:491:GLU:O	2:C:492:ASP:C	2.59	0.41
2:C:549:PHE:HB3	2:C:552:HIS:CD2	2.45	0.41
2:C:708:TYR:CE2	2:C:793:PRO:CD	3.04	0.41
2:C:775:ARG:CZ	2:C:782:ALA:HB1	2.50	0.41
3:D:1296:SER:OG	3:D:1297:GLU:N	2.53	0.41
3:D:1307:LYS:HE3	3:D:1308:GLU:HG3	2.03	0.41
3:D:1320:GLU:H	3:D:1323:GLN:NE2	2.18	0.41
3:D:1323:GLN:HA	3:D:1324:PRO:HD3	1.92	0.41
3:D:1364:HIS:ND1	3:D:1366:LYS:HG2	2.36	0.41
3:D:178:LEU:C	3:D:180:LYS:N	2.75	0.41
3:D:26:VAL:HG11	3:D:44:LEU:HD23	2.03	0.41
3:D:481:MET:HG2	3:D:482:LYS:N	2.33	0.41
3:D:546:ARG:O	3:D:550:ARG:HG2	2.21	0.41
3:D:591:VAL:HG11	3:D:597:ASP:HA	2.03	0.41
3:D:675:ARG:O	3:D:678:GLU:CG	2.59	0.41
3:D:78:VAL:O	3:D:79:GLU:O	2.39	0.41
4:E:40:LEU:HB3	4:E:72:ARG:HE	1.86	0.41
5:F:153:PRO:HB2	5:F:154:LYS:H	1.65	0.41
1:K:104:GLU:O	1:K:105:GLY:O	2.39	0.41
1:L:221:HIS:O	1:L:224:TYR:N	2.49	0.41
2:M:1103:ASP:O	2:M:1104:GLU:C	2.59	0.41
2:M:193:LEU:CD1	2:M:197:LEU:HD11	2.50	0.41
2:M:139:GLN:HB3	2:M:334:ARG:CD	2.51	0.41
2:M:374:ASN:ND2	2:M:377:PRO:HD3	2.36	0.41
2:M:389:SER:HB3	2:M:392:SER:HB3	2.02	0.41
2:M:398:THR:HG23	2:M:635:THR:CG2	2.48	0.41
2:M:473:ARG:HG2	2:M:473:ARG:NH1	2.34	0.41
2:M:480:THR:HG22	2:M:482:GLU:HB3	2.02	0.41
2:M:553:ASP:OD1	2:M:843:HIS:HB3	2.21	0.41
2:M:626:ARG:O	2:M:627:ARG:C	2.59	0.41
2:M:684:PHE:CE2	2:M:685:GLU:HG2	2.55	0.41
2:M:729:LEU:HB3	2:M:730:SER:H	1.40	0.41
2:M:722:ILE:HD12	2:M:823:VAL:HG21	2.02	0.41
2:M:861:LEU:O	2:M:863:ASP:O	2.39	0.41
3:N:708:LEU:HB3	3:N:1231:GLU:HG2	2.03	0.41
3:N:1330:ILE:HG21	3:N:1335:LEU:HD12	2.03	0.41
3:N:1336:LEU:HD11	3:N:1341:PRO:HG3	2.02	0.41
3:N:210:ARG:HH11	3:N:398:ALA:CB	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:131:LYS:HG3	3:N:568:ARG:HG2	2.02	0.41
3:N:654:LYS:CB	3:N:655:PRO:CD	2.92	0.41
3:N:639:LEU:CD1	3:N:931:LEU:HD12	2.51	0.41
5:P:88:ILE:CD1	5:P:193:ARG:HD2	2.51	0.41
1:A:153:ALA:HB2	1:A:168:ASP:N	2.36	0.40
1:B:225:PHE:N	1:B:225:PHE:CD1	2.89	0.40
2:C:1058:ASP:HB2	3:D:621:LYS:HZ2	1.85	0.40
2:C:173:ASP:O	2:C:184:MET:HA	2.21	0.40
2:C:473:ARG:O	2:C:480:THR:N	2.51	0.40
2:C:688:ILE:CG2	2:C:690:ILE:HD11	2.51	0.40
2:C:989:VAL:HG23	2:C:990:GLY:N	2.36	0.40
3:D:1121:PRO:O	3:D:1122:LEU:HD12	2.21	0.40
3:D:124:GLU:C	3:D:126:VAL:H	2.25	0.40
3:D:135:LEU:HD22	3:D:148:GLU:C	2.41	0.40
3:D:1432:LYS:H	3:D:1432:LYS:HG3	1.69	0.40
2:C:1005:MET:CE	3:D:648:MET:HB2	2.50	0.40
3:D:66:GLN:H	3:D:66:GLN:HG2	1.44	0.40
3:D:804:LEU:HG	3:D:804:LEU:O	2.21	0.40
3:D:840:LYS:HD3	3:D:841:TYR:CZ	2.56	0.40
5:F:119:ILE:HG13	5:F:119:ILE:H	1.54	0.40
5:F:151:LEU:HD12	5:F:155:THR:OG1	2.20	0.40
5:F:164:LYS:HA	5:F:171:LYS:CE	2.51	0.40
5:F:77:THR:C	5:F:80:PRO:HD2	2.42	0.40
5:F:98:GLU:HG3	5:F:98:GLU:H	1.71	0.40
1:K:110:LYS:O	1:K:112:ARG:N	2.54	0.40
1:K:52:ALA:HB3	1:K:171:PHE:CE1	2.56	0.40
1:L:77:GLU:HA	1:L:80:LEU:CB	2.50	0.40
2:M:1017:THR:OG1	2:M:1019:GLN:HG3	2.21	0.40
2:M:114:PHE:CZ	5:P:283:GLY:HA3	2.56	0.40
2:M:208:ALA:CB	2:M:222:MET:SD	3.09	0.40
2:M:247:PRO:HA	2:M:248:PRO:HD3	1.72	0.40
2:M:443:THR:CB	2:M:444:PRO:CD	2.90	0.40
2:M:523:ILE:C	2:M:523:ILE:CD1	2.84	0.40
2:M:498:GLN:O	2:M:532:MET:HG3	2.21	0.40
2:M:544:THR:O	2:M:546:LEU:N	2.54	0.40
3:N:1041:LEU:HD23	3:N:1041:LEU:O	2.21	0.40
3:N:1133:ARG:HG2	3:N:1134:LEU:O	2.21	0.40
3:N:1331:ASP:OD1	3:N:1333:HIS:HB2	2.21	0.40
3:N:169:TYR:OH	5:P:92:PRO:HD2	2.20	0.40
3:N:231:VAL:HB	3:N:378:ILE:HG21	2.02	0.40
3:N:760:ARG:HD2	4:O:65:MET:HE1	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:791:TYR:O	3:N:794:GLN:HB2	2.21	0.40
3:N:859:ASP:HB2	3:N:862:ASP:HB2	2.03	0.40
3:N:426:LYS:NZ	5:P:137:GLY:O	2.46	0.40
3:N:563:PRO:CG	5:P:185:GLN:OE1	2.62	0.40
1:A:132:LEU:HD12	1:A:132:LEU:N	2.36	0.40
1:A:137:ARG:HH11	1:A:137:ARG:HG3	1.86	0.40
1:A:210:ALA:O	1:A:212:ASN:N	2.54	0.40
1:A:40:LEU:O	1:A:43:ILE:N	2.55	0.40
1:A:76:VAL:O	1:A:80:LEU:HB2	2.22	0.40
1:A:3:ASP:O	1:A:7:LYS:HB2	2.21	0.40
1:B:76:VAL:HA	1:B:79:ILE:HG12	2.01	0.40
2:C:1090:LYS:HD2	3:D:90:MET:CG	2.48	0.40
2:C:243:ARG:NH1	2:C:243:ARG:HG2	2.35	0.40
2:C:264:PRO:HB2	2:C:289:THR:HB	2.03	0.40
2:C:31:GLN:OE1	2:C:40:GLU:CD	2.59	0.40
2:C:613:VAL:HG21	2:C:615:TYR:CZ	2.57	0.40
2:C:398:THR:CA	2:C:633:GLN:HG3	2.51	0.40
2:C:983:ILE:CG2	3:D:946:GLY:HA2	2.52	0.40
3:D:1109:GLU:OE1	3:D:1110:ALA:C	2.59	0.40
3:D:1385:GLY:HA3	3:D:1413:THR:HG21	2.02	0.40
3:D:500:ARG:NH2	3:D:1388:ARG:NH1	2.66	0.40
3:D:186:VAL:HG11	3:D:213:VAL:HG11	2.02	0.40
3:D:438:ASP:OD1	3:D:440:VAL:HG23	2.22	0.40
3:D:441:ARG:HG2	3:D:443:VAL:CG2	2.51	0.40
3:D:776:GLU:HA	3:D:777:PRO:HD3	1.77	0.40
3:D:792:ILE:HG21	3:D:941:PHE:HD1	1.82	0.40
3:D:914:LEU:CD2	3:D:914:LEU:C	2.85	0.40
4:E:30:LEU:O	4:E:35:PHE:CD1	2.74	0.40
4:E:52:GLU:HB3	4:E:55:PHE:CE2	2.56	0.40
5:F:194:LEU:C	5:F:194:LEU:HD13	2.41	0.40
1:K:117:VAL:O	1:K:118:ALA:C	2.60	0.40
1:K:207:PRO:O	1:K:208:LEU:C	2.58	0.40
1:L:15:THR:O	1:L:16:GLN:OE1	2.39	0.40
1:L:176:ARG:CG	1:L:200:TRP:HB2	2.51	0.40
1:L:56:VAL:HG12	1:L:57:TYR:N	2.35	0.40
2:M:1000:MET:CE	2:M:1001:VAL:H	2.34	0.40
2:M:1039:ALA:O	2:M:1042:ALA:HB3	2.21	0.40
2:M:216:GLU:H	2:M:216:GLU:CD	2.24	0.40
2:M:732:ALA:C	2:M:734:LEU:H	2.24	0.40
3:N:1046:GLN:NE2	3:N:1050:GLY:HA2	2.30	0.40
3:N:1069:GLU:O	3:N:1072:ILE:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:1238:MET:HG3	3:N:1239:ARG:HB2	2.02	0.40
3:N:1332:PRO:HB2	3:N:1421:LEU:HD21	2.03	0.40
3:N:63:TYR:CD1	3:N:63:TYR:N	2.90	0.40
3:N:754:PHE:O	3:N:755:ALA:C	2.59	0.40
3:N:787:LEU:HD12	3:N:787:LEU:HA	1.86	0.40
1:L:76:VAL:HG12	3:N:842:VAL:HG11	2.03	0.40
3:N:984:THR:OG1	3:N:985:ASP:N	2.53	0.40
5:P:207:LEU:HB3	5:P:208:SER:H	1.70	0.40
1:B:43:ILE:C	1:B:45:LEU:H	2.25	0.40
2:C:142:ARG:NH2	2:C:147:TYR:CD1	2.89	0.40
2:C:211:LEU:HD13	2:C:304:LEU:CD1	2.51	0.40
2:C:389:SER:O	2:C:392:SER:N	2.54	0.40
2:C:48:PHE:O	2:C:49:ARG:C	2.59	0.40
2:C:536:PRO:O	2:C:537:LYS:C	2.60	0.40
2:C:626:ARG:HA	2:C:629:TYR:CE1	2.57	0.40
2:C:77:PRO:C	2:C:78:PHE:CD1	2.94	0.40
2:C:79:PRO:HD2	2:C:82:GLU:OE2	2.21	0.40
3:D:131:LYS:O	3:D:133:ILE:HD12	2.20	0.40
3:D:1389:LEU:HG	3:D:1390:LEU:H	1.87	0.40
3:D:1480:PHE:CZ	4:E:18:ARG:NH2	2.89	0.40
3:D:159:ARG:HB2	3:D:159:ARG:CZ	2.48	0.40
3:D:168:THR:CG2	3:D:170:PRO:HD3	2.47	0.40
3:D:236:TYR:O	3:D:237:LYS:HE3	2.22	0.40
3:D:553:ARG:O	3:D:557:LEU:HB2	2.22	0.40
3:D:616:GLN:C	3:D:619:LEU:HB3	2.40	0.40
3:D:936:TYR:CD2	3:D:936:TYR:C	2.93	0.40
3:D:962:GLN:C	3:D:964:LEU:N	2.73	0.40
5:F:93:LEU:HA	5:F:93:LEU:HD23	1.93	0.40
1:K:46:SER:O	1:K:47:SER:C	2.60	0.40
1:L:26:GLU:HG2	1:L:27:PRO:N	2.36	0.40
2:M:1034:GLU:OE2	3:N:618:LEU:HB3	2.22	0.40
2:M:1107:ASN:CG	2:M:1108:PRO:HD2	2.42	0.40
2:M:437:ARG:HD3	2:M:467:ILE:HG22	2.03	0.40
2:M:721:ARG:N	2:M:759:THR:O	2.54	0.40
2:M:774:LEU:O	2:M:774:LEU:HD13	2.21	0.40
2:M:549:PHE:CE2	2:M:887:GLU:HA	2.56	0.40
2:M:983:ILE:O	2:M:985:GLY:N	2.55	0.40
3:N:1008:PHE:C	3:N:1010:ASN:N	2.73	0.40
3:N:1320:GLU:HG3	3:N:1323:GLN:HE21	1.85	0.40
3:N:127:LEU:HD22	3:N:134:VAL:HG21	2.04	0.40
3:N:244:GLU:HB3	3:N:366:LYS:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:609:GLY:CA	3:N:613:ARG:HB3	2.51	0.40
3:N:669:ASN:ND2	3:N:671:LYS:H	2.18	0.40
3:N:56:TYR:C	3:N:80:VAL:HG21	2.41	0.40
3:N:871:LYS:CE	3:N:873:LEU:HD21	2.51	0.40
4:O:54:LEU:CD2	4:O:58:PRO:HB2	2.50	0.40
5:P:152:ASP:O	5:P:156:VAL:CG1	2.69	0.40
1:A:122:ILE:O	1:A:125:PRO:HD3	2.21	0.40
1:A:64:GLU:HB2	1:A:165:ILE:HG21	2.03	0.40
1:A:172:SER:HA	1:A:173:PRO:HD3	1.77	0.40
1:A:34:VAL:HB	1:B:42:ARG:NH2	2.37	0.40
2:C:231:PRO:C	2:C:233:GLU:H	2.25	0.40
2:C:264:PRO:O	2:C:289:THR:OG1	2.40	0.40
2:C:586:ARG:CD	2:C:590:ASP:OD2	2.70	0.40
2:C:666:LEU:HD12	2:C:666:LEU:HA	1.89	0.40
3:D:1224:VAL:HG12	3:D:1224:VAL:O	2.21	0.40
3:D:1264:GLU:O	3:D:1265:ALA:O	2.39	0.40
3:D:1407:LEU:HD12	3:D:1407:LEU:N	2.36	0.40
3:D:616:GLN:HA	3:D:619:LEU:CB	2.41	0.40
3:D:648:MET:HE2	3:D:747:VAL:HG12	2.03	0.40
3:D:655:PRO:HA	3:D:658:LEU:HD12	2.03	0.40
2:C:1071:ILE:O	3:D:659:LYS:HG3	2.21	0.40
5:F:151:LEU:O	5:F:152:ASP:C	2.60	0.40
5:F:371:LEU:CA	5:F:375:LEU:H	2.31	0.40
5:F:386:VAL:C	5:F:388:ALA:N	2.74	0.40
1:K:43:ILE:CG2	1:K:217:ILE:HD12	2.51	0.40
2:M:1107:ASN:HA	2:M:1108:PRO:HD3	1.88	0.40
6:M:1120:STD:O6	6:M:1120:STD:C3	2.69	0.40
2:M:176:VAL:HG23	2:M:176:VAL:O	2.21	0.40
2:M:335:THR:O	2:M:339:LEU:HG	2.21	0.40
2:M:578:VAL:HG13	2:M:671:ASN:HB3	2.03	0.40
2:M:589:ARG:HD3	2:M:596:TYR:CZ	2.56	0.40
2:M:777:ILE:C	2:M:778:PHE:HD1	2.24	0.40
2:M:963:LEU:O	2:M:967:PHE:CB	2.69	0.40
2:M:516:ARG:HE	3:N:1068:LEU:HD13	1.76	0.40
3:N:1175:ILE:O	3:N:1175:ILE:CG2	2.70	0.40
3:N:1258:ARG:CZ	3:N:1262:LEU:CD1	2.88	0.40
3:N:125:GLN:HE22	3:N:587:ARG:CZ	2.34	0.40
3:N:1277:ILE:CD1	3:N:1301:LYS:HB2	2.51	0.40
3:N:26:VAL:HG11	3:N:44:LEU:CD2	2.36	0.40
3:N:65:ARG:HA	3:N:65:ARG:HD2	1.91	0.40
3:N:798:GLU:HB3	3:N:826:PRO:HG2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:N:560:GLN:OE1	5:P:221:ILE:HG21	2.21	0.40
5:P:332:PHE:N	5:P:332:PHE:HD1	2.19	0.40
5:P:372:ARG:O	5:P:377:ASP:O	2.39	0.40
2:C:329:GLY:CA	2:C:488:ALA:HB3	2.52	0.40
2:C:679:PHE:CE1	2:C:870:ILE:HD13	2.57	0.40
2:C:805:ARG:O	2:C:806:LEU:CD2	2.69	0.40
2:C:816:LYS:HB2	2:C:819:VAL:HG21	2.04	0.40
2:C:905:ILE:HG22	2:C:906:PHE:N	2.37	0.40
3:D:118:LEU:HD12	3:D:118:LEU:N	2.37	0.40
3:D:1429:LEU:CD2	3:D:1429:LEU:O	2.69	0.40
3:D:1434:TRP:C	3:D:1434:TRP:CD1	2.92	0.40
3:D:1438:ALA:C	3:D:1440:PHE:N	2.75	0.40
3:D:153:LEU:HD23	3:D:153:LEU:N	2.35	0.40
3:D:210:ARG:CD	3:D:398:ALA:HB3	2.51	0.40
3:D:217:LYS:HE3	3:D:388:HIS:O	2.22	0.40
3:D:233:LYS:HZ3	3:D:237:LYS:HD2	1.86	0.40
3:D:376:GLU:HB3	3:D:383:GLY:O	2.22	0.40
4:E:66:LYS:HA	4:E:66:LYS:HD3	1.95	0.40
5:F:221:ILE:O	5:F:223:ALA:N	2.54	0.40
5:F:291:ILE:HD13	5:F:304:VAL:HG13	2.00	0.40
1:L:165:ILE:HA	1:L:166:PRO:HD3	1.87	0.40
1:L:197:LEU:HD21	1:L:199:ILE:CG1	2.49	0.40
1:L:13:VAL:HG22	1:L:23:PHE:HD1	1.86	0.40
2:M:1054:THR:HB	2:M:1055:LEU:H	1.38	0.40
2:M:1096:ALA:O	2:M:1097:LEU:O	2.40	0.40
2:M:437:ARG:HH22	2:M:491:GLU:CD	2.24	0.40
2:M:585:GLU:HB2	2:M:586:ARG:H	1.71	0.40
2:M:736:ASP:C	2:M:738:ASP:N	2.74	0.40
3:N:1044:LEU:HD23	3:N:1044:LEU:HA	1.89	0.40
3:N:1356:TYR:O	3:N:1361:VAL:HB	2.21	0.40
3:N:33:ASN:O	3:N:35:ARG:N	2.54	0.40
3:N:39:PRO:HB3	3:N:45:PHE:O	2.22	0.40
3:N:455:ARG:CB	3:N:460:ALA:HB2	2.52	0.40
3:N:551:ASN:O	3:N:555:LYS:HG3	2.22	0.40
3:N:558:LEU:HD13	5:P:145:PRO:C	2.41	0.40
3:N:568:ARG:O	3:N:569:ASN:C	2.58	0.40
3:N:602:SER:O	3:N:606:ILE:HG13	2.22	0.40
3:N:634:GLY:O	3:N:637:LEU:HB2	2.21	0.40
3:N:836:VAL:O	3:N:838:ARG:N	2.55	0.40
3:N:871:LYS:HB3	3:N:873:LEU:HG	2.04	0.40
3:N:908:LYS:HE3	3:N:908:LYS:HB2	1.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:O:26:ARG:O	4:O:26:ARG:HD2	2.21	0.40
4:O:41:GLU:N	4:O:42:PRO:CD	2.85	0.40
5:P:110:MET:C	5:P:112:ALA:N	2.72	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	227/315 (72%)	163 (72%)	48 (21%)	16 (7%)	1	6
1	B	227/315 (72%)	167 (74%)	46 (20%)	14 (6%)	1	8
1	K	227/315 (72%)	154 (68%)	45 (20%)	28 (12%)	0	1
1	L	227/315 (72%)	169 (74%)	41 (18%)	17 (8%)	1	5
2	C	1117/1119 (100%)	768 (69%)	229 (20%)	120 (11%)	0	2
2	M	1117/1119 (100%)	758 (68%)	222 (20%)	137 (12%)	0	1
3	D	1388/1524 (91%)	940 (68%)	286 (21%)	162 (12%)	0	1
3	N	1388/1524 (91%)	916 (66%)	317 (23%)	155 (11%)	0	2
4	E	93/99 (94%)	66 (71%)	17 (18%)	10 (11%)	0	2
4	O	93/99 (94%)	56 (60%)	25 (27%)	12 (13%)	0	1
5	F	341/423 (81%)	239 (70%)	57 (17%)	45 (13%)	0	1
5	P	341/423 (81%)	250 (73%)	54 (16%)	37 (11%)	0	2
All	All	6786/7590 (89%)	4646 (68%)	1387 (20%)	753 (11%)	0	2

All (753) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	118	ALA

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Mol	Chain	Res	Type
1	A	160	ASP
1	A	188	GLN
1	B	3	ASP
1	B	96	THR
1	B	160	ASP
1	B	204	SER
2	C	7	GLY
2	C	10	ARG
2	C	18	LEU
2	C	23	VAL
2	C	24	GLU
2	C	111	ASP
2	C	223	ASP
2	C	231	PRO
2	C	244	PRO
2	C	246	ASP
2	C	251	ASP
2	C	253	ALA
2	C	261	ILE
2	C	369	PRO
2	C	377	PRO
2	C	419	THR
2	C	423	ALA
2	C	425	PHE
2	C	462	ASP
2	C	550	LEU
2	C	600	ASP
2	C	627	ARG
2	C	698	ASP
2	C	727	PRO
2	C	735	ARG
2	C	738	ASP
2	C	762	LYS
2	C	767	PRO
2	C	813	VAL
2	C	864	GLY
2	C	904	PRO
2	C	905	ILE
2	C	984	GLU
2	C	1004	LYS
2	C	1045	ALA
2	C	1056	LYS

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Mol	Chain	Res	Type
2	C	1096	ALA
2	C	1113	GLU
3	D	41	ARG
3	D	49	ILE
3	D	55	ASP
3	D	69	GLU
3	D	82	LYS
3	D	110	SER
3	D	120	ALA
3	D	128	TYR
3	D	133	ILE
3	D	136	ASP
3	D	138	LYS
3	D	140	ALA
3	D	141	ILE
3	D	149	LYS
3	D	199	LEU
3	D	202	VAL
3	D	208	PRO
3	D	209	ARG
3	D	238	PRO
3	D	247	GLU
3	D	373	PRO
3	D	385	VAL
3	D	416	ALA
3	D	417	PRO
3	D	420	VAL
3	D	431	VAL
3	D	504	ASP
3	D	526	PRO
3	D	554	LEU
3	D	594	PRO
3	D	601	ARG
3	D	611	GLN
3	D	652	LEU
3	D	670	VAL
3	D	694	VAL
3	D	705	ALA
3	D	765	SER
3	D	766	ALA
3	D	783	ARG
3	D	807	ALA

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Mol	Chain	Res	Type
3	D	1028	ALA
3	D	1066	THR
3	D	1111	ASP
3	D	1114	THR
3	D	1131	SER
3	D	1152	GLU
3	D	1197	ARG
3	D	1207	TYR
3	D	1237	THR
3	D	1243	THR
3	D	1269	LYS
3	D	1287	GLU
3	D	1389	LEU
3	D	1390	LEU
3	D	1410	GLU
3	D	1430	SER
3	D	1451	ALA
3	D	1452	ILE
3	D	1504	GLU
4	E	41	GLU
4	E	42	PRO
4	E	46	PRO
5	F	75	ILE
5	F	76	SER
5	F	77	THR
5	F	97	GLU
5	F	138	SER
5	F	147	LEU
5	F	153	PRO
5	F	232	ARG
5	F	297	PRO
5	F	341	PRO
5	F	385	GLU
5	F	390	PHE
1	K	59	GLU
1	K	109	VAL
1	K	118	ALA
1	K	188	GLN
1	L	3	ASP
1	L	116	PRO
1	L	158	ILE
1	L	171	PHE

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Mol	Chain	Res	Type
2	M	12	VAL
2	M	57	GLU
2	M	80	GLN
2	M	90	TYR
2	M	111	ASP
2	M	119	PRO
2	M	152	PRO
2	M	153	ALA
2	M	170	PRO
2	M	178	PRO
2	M	223	ASP
2	M	231	PRO
2	M	244	PRO
2	M	246	ASP
2	M	251	ASP
2	M	253	ALA
2	M	261	ILE
2	M	264	PRO
2	M	265	ARG
2	M	292	ARG
2	M	419	THR
2	M	422	ARG
2	M	456	ALA
2	M	462	ASP
2	M	486	MET
2	M	500	ASN
2	M	548	PRO
2	M	574	ALA
2	M	584	GLU
2	M	586	ARG
2	M	607	ASP
2	M	626	ARG
2	M	680	ASP
2	M	684	PHE
2	M	727	PRO
2	M	762	LYS
2	M	781	LYS
2	M	784	ASP
2	M	807	ARG
2	M	1016	ILE
2	M	1045	ALA
2	M	1059	ASP

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Mol	Chain	Res	Type
2	M	1060	ILE
2	M	1097	LEU
2	M	1106	ASP
3	N	34	TYR
3	N	41	ARG
3	N	77	GLY
3	N	82	LYS
3	N	119	SER
3	N	120	ALA
3	N	130	SER
3	N	131	LYS
3	N	141	ILE
3	N	146	PRO
3	N	149	LYS
3	N	198	ARG
3	N	208	PRO
3	N	209	ARG
3	N	217	LYS
3	N	246	PRO
3	N	406	ASP
3	N	410	SER
3	N	417	PRO
3	N	430	ASP
3	N	504	ASP
3	N	594	PRO
3	N	629	SER
3	N	639	LEU
3	N	666	ILE
3	N	737	ASN
3	N	774	SER
3	N	807	ALA
3	N	822	ALA
3	N	824	ASN
3	N	832	ARG
3	N	891	GLU
3	N	922	LEU
3	N	949	ILE
3	N	1028	ALA
3	N	1049	SER
3	N	1161	GLU
3	N	1167	SER
3	N	1182	GLU

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Mol	Chain	Res	Type
3	N	1208	ASP
3	N	1215	VAL
3	N	1221	VAL
3	N	1237	THR
3	N	1239	ARG
3	N	1265	ALA
3	N	1287	GLU
3	N	1307	LYS
3	N	1308	GLU
3	N	1384	PRO
3	N	1388	ARG
4	O	17	TYR
4	O	42	PRO
4	O	82	GLU
5	P	76	SER
5	P	135	ILE
5	P	145	PRO
5	P	190	ALA
5	P	203	THR
5	P	232	ARG
5	P	236	SER
5	P	282	LEU
5	P	297	PRO
5	P	363	GLU
5	P	364	ARG
5	P	421	PHE
1	A	59	GLU
1	A	93	SER
1	A	105	GLY
1	A	116	PRO
1	A	183	ASP
1	A	187	GLY
1	B	35	THR
2	C	53	PRO
2	C	74	GLY
2	C	288	ARG
2	C	450	GLY
2	C	541	SER
2	C	551	GLU
2	C	570	PRO
2	C	598	GLU
2	C	608	GLY

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Mol	Chain	Res	Type
2	C	644	VAL
2	C	692	GLU
2	C	783	ARG
2	C	807	ARG
2	C	874	LEU
2	C	922	PHE
2	C	977	GLY
2	C	1012	PRO
2	C	1016	ILE
2	C	1080	SER
3	D	37	LEU
3	D	78	VAL
3	D	84	ILE
3	D	125	GLN
3	D	129	PHE
3	D	137	PRO
3	D	178	LEU
3	D	179	VAL
3	D	187	LYS
3	D	201	GLY
3	D	220	ARG
3	D	221	ALA
3	D	234	GLU
3	D	424	GLY
3	D	440	VAL
3	D	450	TYR
3	D	453	ASP
3	D	560	GLN
3	D	602	SER
3	D	647	ARG
3	D	826	PRO
3	D	870	GLY
3	D	1049	SER
3	D	1065	LEU
3	D	1082	ALA
3	D	1104	GLU
3	D	1115	THR
3	D	1127	GLU
3	D	1132	LEU
3	D	1196	THR
3	D	1233	GLY
3	D	1234	THR

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Mol	Chain	Res	Type
3	D	1265	ALA
3	D	1274	ILE
3	D	1307	LYS
3	D	1315	ASP
3	D	1443	THR
3	D	1470	ARG
4	E	58	PRO
4	E	71	GLY
4	E	82	GLU
5	F	148	LYS
5	F	202	TYR
5	F	204	GLY
5	F	288	TYR
5	F	295	MET
5	F	329	TYR
5	F	330	GLY
5	F	351	SER
5	F	363	GLU
5	F	374	GLY
5	F	375	LEU
5	F	386	VAL
5	F	399	GLN
1	K	4	SER
1	K	11	PHE
1	K	30	ARG
1	K	47	SER
1	K	92	PRO
1	K	105	GLY
1	K	138	LEU
1	K	162	ILE
1	K	176	ARG
1	K	215	VAL
1	K	226	SER
1	L	4	SER
1	L	11	PHE
1	L	214	ALA
1	L	224	TYR
2	M	7	GLY
2	M	29	ALA
2	M	87	ASP
2	M	105	THR
2	M	113	VAL

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Mol	Chain	Res	Type
2	M	129	ILE
2	M	187	ASN
2	M	224	GLU
2	M	267	TYR
2	M	326	ASP
2	M	328	LEU
2	M	369	PRO
2	M	415	PRO
2	M	443	THR
2	M	471	TYR
2	M	498	GLN
2	M	537	LYS
2	M	545	ASN
2	M	556	ASN
2	M	575	GLN
2	M	616	GLU
2	M	627	ARG
2	M	652	GLY
2	M	699	PHE
2	M	730	SER
2	M	745	ILE
2	M	763	GLY
2	M	765	SER
2	M	767	PRO
2	M	783	ARG
2	M	813	VAL
2	M	857	ASP
2	M	875	GLY
2	M	893	ALA
2	M	894	GLY
2	M	905	ILE
2	M	984	GLU
2	M	1004	LYS
2	M	1057	SER
2	M	1115	LEU
3	N	24	GLY
3	N	55	ASP
3	N	56	TYR
3	N	58	CYS
3	N	62	LYS
3	N	67	ARG
3	N	98	PRO

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Mol	Chain	Res	Type
3	N	137	PRO
3	N	238	PRO
3	N	241	ILE
3	N	369	ALA
3	N	415	VAL
3	N	424	GLY
3	N	449	SER
3	N	463	GLN
3	N	480	GLU
3	N	484	PRO
3	N	506	GLY
3	N	564	GLU
3	N	569	ASN
3	N	571	LYS
3	N	582	LEU
3	N	622	ARG
3	N	816	HIS
3	N	836	VAL
3	N	864	VAL
3	N	989	TYR
3	N	1064	GLY
3	N	1111	ASP
3	N	1114	THR
3	N	1125	PRO
3	N	1126	ASP
3	N	1129	THR
3	N	1156	LEU
3	N	1236	LEU
3	N	1389	LEU
3	N	1390	LEU
3	N	1394	VAL
3	N	1423	GLY
3	N	1439	SER
3	N	1461	GLY
3	N	1475	GLY
4	O	44	GLU
5	P	77	THR
5	P	115	LYS
5	P	148	LYS
5	P	168	LYS
5	P	334	PRO
5	P	346	THR

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Mol	Chain	Res	Type
5	P	347	GLN
5	P	376	ILE
5	P	416	ARG
1	A	102	LYS
1	B	30	ARG
1	B	58	ILE
1	B	118	ALA
2	C	27	ARG
2	C	31	GLN
2	C	43	GLY
2	C	48	PHE
2	C	57	GLU
2	C	152	PRO
2	C	186	VAL
2	C	188	LYS
2	C	189	ARG
2	C	224	GLU
2	C	228	ALA
2	C	273	GLY
2	C	292	ARG
2	C	363	SER
2	C	467	ILE
2	C	492	ASP
2	C	518	LYS
2	C	555	ALA
2	C	802	ARG
2	C	937	ASP
2	C	957	LYS
2	C	1020	PRO
2	C	1055	LEU
2	C	1057	SER
2	C	1071	ILE
3	D	79	GLU
3	D	119	SER
3	D	174	GLY
3	D	233	LYS
3	D	237	LYS
3	D	522	PRO
3	D	580	ALA
3	D	610	LYS
3	D	671	LYS
3	D	735	ALA

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Mol	Chain	Res	Type
3	D	799	LYS
3	D	836	VAL
3	D	893	GLU
3	D	997	THR
3	D	1136	LYS
3	D	1161	GLU
3	D	1198	TYR
3	D	1263	PHE
3	D	1341	PRO
3	D	1349	VAL
3	D	1475	GLY
4	E	87	LYS
5	F	241	TRP
5	F	264	MET
5	F	286	PRO
5	F	298	GLY
5	F	395	GLU
5	F	401	GLU
5	F	414	ARG
1	K	37	GLY
1	K	46	SER
1	K	111	ALA
1	K	214	ALA
1	L	18	ARG
1	L	59	GLU
2	M	10	ARG
2	M	190	LYS
2	M	202	TYR
2	M	273	GLY
2	M	367	LEU
2	M	458	TYR
2	M	518	LYS
2	M	585	GLU
2	M	693	GLU
2	M	735	ARG
2	M	814	GLU
2	M	856	GLU
2	M	876	VAL
2	M	1079	PRO
2	M	1108	PRO
3	N	68	PHE
3	N	83	SER

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Mol	Chain	Res	Type
3	N	85	VAL
3	N	124	GLU
3	N	135	LEU
3	N	240	GLU
3	N	368	VAL
3	N	387	LEU
3	N	451	ASP
3	N	706	PRO
3	N	784	ASP
3	N	1029	ARG
3	N	1058	ARG
3	N	1066	THR
3	N	1139	ASP
3	N	1155	VAL
3	N	1164	ARG
3	N	1197	ARG
3	N	1306	PRO
3	N	1321	ALA
3	N	1366	LYS
3	N	1435	LEU
3	N	1436	SER
4	O	16	LYS
4	O	41	GLU
4	O	46	PRO
4	O	64	ALA
5	P	110	MET
5	P	147	LEU
5	P	191	ASN
5	P	233	PHE
5	P	286	PRO
5	P	324	GLU
5	P	419	ARG
1	A	106	PRO
1	A	157	GLY
1	B	116	PRO
2	C	28	ARG
2	C	52	PHE
2	C	179	ASN
2	C	232	GLU
2	C	241	LEU
2	C	267	TYR
2	C	290	LEU

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Mol	Chain	Res	Type
2	C	293	PHE
2	C	314	THR
2	C	548	PRO
2	C	680	ASP
2	C	684	PHE
2	C	1007	ALA
2	C	1046	ALA
2	C	1062	GLY
2	C	1070	ILE
3	D	121	THR
3	D	135	LEU
3	D	146	PRO
3	D	177	ALA
3	D	483	HIS
3	D	509	PRO
3	D	587	ARG
3	D	635	PRO
3	D	808	THR
3	D	902	LEU
3	D	1040	GLY
3	D	1058	ARG
3	D	1059	SER
3	D	1385	GLY
4	E	44	GLU
5	F	190	ALA
5	F	327	SER
5	F	376	ILE
5	F	416	ARG
5	F	421	PHE
1	K	3	ASP
1	K	45	LEU
1	K	54	THR
1	K	144	VAL
2	M	53	PRO
2	M	161	SER
2	M	314	THR
2	M	780	GLU
2	M	810	ASP
2	M	916	GLU
2	M	925	TYR
2	M	929	ARG
2	M	998	TYR

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Mol	Chain	Res	Type
2	M	1056	LYS
2	M	1113	GLU
3	N	162	ARG
3	N	234	GLU
3	N	370	ALA
3	N	416	ALA
3	N	487	ALA
3	N	692	GLU
3	N	724	GLN
3	N	869	MET
3	N	1341	PRO
3	N	1351	GLU
4	O	72	ARG
5	P	165	SER
5	P	301	ALA
5	P	341	PRO
1	A	124	ASN
2	C	14	PRO
2	C	178	PRO
2	C	480	THR
2	C	502	PRO
2	C	545	ASN
2	C	780	GLU
2	C	859	PRO
2	C	1112	PHE
3	D	442	ASN
3	D	451	ASP
3	D	486	ARG
3	D	523	ASP
3	D	830	ALA
3	D	1016	PRO
3	D	1240	THR
3	D	1261	GLU
3	D	1392	GLY
3	D	1439	SER
5	F	263	HIS
5	F	367	MET
5	F	392	VAL
5	F	419	ARG
1	K	207	PRO
1	L	172	SER
1	L	173	PRO

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Mol	Chain	Res	Type
2	M	9	ILE
2	M	52	PHE
2	M	76	PRO
2	M	164	PRO
2	M	337	GLY
2	M	368	THR
2	M	700	TYR
2	M	801	VAL
2	M	821	GLU
2	M	1018	GLN
2	M	1088	LEU
3	N	29	PRO
3	N	44	LEU
3	N	177	ALA
3	N	373	PRO
3	N	471	GLU
3	N	483	HIS
3	N	565	ILE
3	N	586	ARG
3	N	754	PHE
3	N	808	THR
3	N	1009	LYS
3	N	1285	GLU
3	N	1350	GLU
3	N	1408	ILE
3	N	1459	LEU
4	O	4	PRO
5	P	151	LEU
5	P	177	ALA
5	P	235	PHE
5	P	323	ASP
1	A	125	PRO
1	A	176	ARG
1	B	39	PRO
1	B	106	PRO
2	C	155	PRO
2	C	335	THR
2	C	490	GLU
2	C	835	VAL
2	C	861	LEU
2	C	1108	PRO
3	D	44	LEU

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Mol	Chain	Res	Type
3	D	80	VAL
3	D	530	VAL
3	D	693	GLU
3	D	1019	PRO
3	D	1044	LEU
3	D	1267	ARG
3	D	1350	GLU
4	E	4	PRO
5	F	119	ILE
5	F	372	ARG
1	K	70	GLY
1	K	228	PRO
1	L	188	GLN
1	L	202	ASP
2	M	60	GLY
2	M	241	LEU
2	M	325	ILE
2	M	739	GLU
2	M	986	PRO
3	N	568	ARG
3	N	695	ILE
3	N	984	THR
3	N	1048	PRO
3	N	1414	PRO
4	O	33	HIS
2	C	201	GLY
2	C	855	VAL
2	C	1114	GLY
3	D	668	PRO
3	D	885	ILE
3	D	992	ILE
3	D	1280	VAL
5	F	145	PRO
1	K	17	GLY
1	L	76	VAL
2	M	42	VAL
2	M	452	ILE
2	M	812	GLY
3	N	1050	GLY
3	N	1452	ILE
5	P	204	GLY
1	A	9	PRO

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Mol	Chain	Res	Type
1	B	79	ILE
2	C	17	PRO
3	D	1155	VAL
2	M	15	LEU
2	M	465	GLY
3	N	530	VAL
4	O	22	VAL
5	P	368	VAL
1	B	9	PRO
3	D	981	GLY
4	E	81	PRO
5	F	397	ILE
1	L	215	VAL
2	M	182	VAL
2	M	779	GLY
3	N	226	PRO
3	N	776	GLU
3	N	1277	ILE
1	B	75	VAL
2	C	263	ASP
2	C	444	PRO
2	C	812	GLY
3	D	108	VAL
3	D	433	GLY
3	D	1277	ILE
2	M	180	GLY
2	M	186	VAL
2	M	416	GLY
3	N	1481	VAL
2	C	769	PRO
3	D	395	VAL
3	D	1067	VAL
3	D	1414	PRO
1	K	205	VAL
1	L	162	ILE
3	N	26	VAL
3	N	654	LYS
3	N	1019	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%)	171 (85%)	31 (15%)	2	13
1	B	202/273 (74%)	178 (88%)	24 (12%)	5	22
1	K	202/273 (74%)	172 (85%)	30 (15%)	3	14
1	L	202/273 (74%)	175 (87%)	27 (13%)	4	17
2	C	941/941 (100%)	829 (88%)	112 (12%)	5	22
2	M	941/941 (100%)	816 (87%)	125 (13%)	4	17
3	D	1170/1279 (92%)	972 (83%)	198 (17%)	2	11
3	N	1170/1279 (92%)	1000 (86%)	170 (14%)	3	15
4	E	83/87 (95%)	71 (86%)	12 (14%)	3	15
4	O	83/87 (95%)	72 (87%)	11 (13%)	4	17
5	F	300/370 (81%)	261 (87%)	39 (13%)	4	19
5	P	300/370 (81%)	281 (94%)	19 (6%)	18	51
All	All	5796/6446 (90%)	4998 (86%)	798 (14%)	3	17

All (798) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	LYS
1	A	18	ARG
1	A	19	GLU
1	A	20	TYR
1	A	26	GLU
1	A	51	THR
1	A	62	LEU
1	A	73	GLU
1	A	84	GLU
1	A	88	ARG
1	A	92	PRO
1	A	95	GLN
1	A	96	THR
1	A	112	ARG

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Mol	Chain	Res	Type
1	A	114	PHE
1	A	119	ASP
1	A	127	LEU
1	A	134	GLU
1	A	143	ARG
1	A	145	ASP
1	A	146	ARG
1	A	160	ASP
1	A	168	ASP
1	A	179	PHE
1	A	183	ASP
1	A	185	ARG
1	A	193	ASP
1	A	196	THR
1	A	197	LEU
1	A	219	ARG
1	A	227	ASN
1	B	2	LEU
1	B	3	ASP
1	B	5	LYS
1	B	19	GLU
1	B	20	TYR
1	B	29	GLU
1	B	38	ASN
1	B	62	LEU
1	B	112	ARG
1	B	115	LEU
1	B	119	ASP
1	B	124	ASN
1	B	140	MET
1	B	146	ARG
1	B	156	HIS
1	B	160	ASP
1	B	170	VAL
1	B	188	GLN
1	B	189	ARG
1	B	196	THR
1	B	208	LEU
1	B	213	GLN
1	B	219	ARG
1	B	225	PHE
2	C	5	ARG

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Mol	Chain	Res	Type
2	C	9	ILE
2	C	26	TYR
2	C	41	ASN
2	C	48	PHE
2	C	49	ARG
2	C	52	PHE
2	C	71	TYR
2	C	81	ASP
2	C	88	LEU
2	C	95	TYR
2	C	111	ASP
2	C	115	LEU
2	C	124	ASP
2	C	157	ARG
2	C	158	TYR
2	C	168	ARG
2	C	178	PRO
2	C	185	LYS
2	C	188	LYS
2	C	197	LEU
2	C	198	ARG
2	C	202	TYR
2	C	203	ASP
2	C	209	ARG
2	C	221	LEU
2	C	230	ARG
2	C	233	GLU
2	C	251	ASP
2	C	256	TYR
2	C	263	ASP
2	C	266	ARG
2	C	290	LEU
2	C	297	GLU
2	C	359	MET
2	C	376	ARG
2	C	383	ARG
2	C	407	LYS
2	C	413	LEU
2	C	420	ARG
2	C	421	GLU
2	C	425	PHE
2	C	426	ASP

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Mol	Chain	Res	Type
2	C	427	VAL
2	C	433	THR
2	C	455	LEU
2	C	469	THR
2	C	472	ARG
2	C	475	VAL
2	C	503	LEU
2	C	507	ARG
2	C	514	VAL
2	C	523	ILE
2	C	526	PRO
2	C	527	GLU
2	C	551	GLU
2	C	562	SER
2	C	564	MET
2	C	578	VAL
2	C	589	ARG
2	C	607	ASP
2	C	609	ASN
2	C	617	ASP
2	C	633	GLN
2	C	637	LEU
2	C	640	ARG
2	C	650	ARG
2	C	671	ASN
2	C	672	VAL
2	C	679	PHE
2	C	685	GLU
2	C	689	VAL
2	C	699	PHE
2	C	701	THR
2	C	713	ARG
2	C	723	THR
2	C	725	ASP
2	C	727	PRO
2	C	737	LEU
2	C	766	GLU
2	C	799	ILE
2	C	826	TYR
2	C	831	ARG
2	C	841	ASN
2	C	859	PRO

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Mol	Chain	Res	Type
2	C	861	LEU
2	C	863	ASP
2	C	865	THR
2	C	881	ASN
2	C	888	THR
2	C	892	LEU
2	C	900	ARG
2	C	904	PRO
2	C	916	GLU
2	C	928	LYS
2	C	937	ASP
2	C	963	LEU
2	C	966	LEU
2	C	975	TYR
2	C	978	ARG
2	C	979	THR
2	C	1008	ARG
2	C	1015	LEU
2	C	1016	ILE
2	C	1036	GLU
2	C	1051	GLU
2	C	1052	MET
2	C	1054	THR
2	C	1081	VAL
2	C	1092	LEU
2	C	1103	ASP
2	C	1115	LEU
3	D	15	PRO
3	D	25	GLU
3	D	57	GLU
3	D	66	GLN
3	D	73	CYS
3	D	89	ARG
3	D	102	ILE
3	D	112	ILE
3	D	115	LEU
3	D	122	GLU
3	D	123	LEU
3	D	138	LYS
3	D	141	ILE
3	D	142	LEU
3	D	143	ASN

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Mol	Chain	Res	Type
3	D	145	VAL
3	D	149	LYS
3	D	152	LEU
3	D	153	LEU
3	D	155	ASP
3	D	171	LEU
3	D	179	VAL
3	D	189	GLN
3	D	199	LEU
3	D	200	ASP
3	D	208	PRO
3	D	209	ARG
3	D	217	LYS
3	D	218	LYS
3	D	223	LEU
3	D	224	ARG
3	D	225	LEU
3	D	236	TYR
3	D	237	LYS
3	D	245	LEU
3	D	249	TYR
3	D	250	LEU
3	D	365	ASP
3	D	366	LYS
3	D	367	ILE
3	D	376	GLU
3	D	377	VAL
3	D	378	ILE
3	D	387	LEU
3	D	388	HIS
3	D	408	GLU
3	D	423	ASP
3	D	432	TYR
3	D	438	ASP
3	D	445	ARG
3	D	447	VAL
3	D	450	TYR
3	D	453	ASP
3	D	456	MET
3	D	486	ARG
3	D	511	TRP
3	D	513	ILE

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Mol	Chain	Res	Type
3	D	528	VAL
3	D	535	PHE
3	D	539	ASP
3	D	549	ASN
3	D	554	LEU
3	D	565	ILE
3	D	569	ASN
3	D	571	LYS
3	D	576	GLU
3	D	579	ASP
3	D	583	ASP
3	D	591	VAL
3	D	592	THR
3	D	594	PRO
3	D	597	ASP
3	D	604	THR
3	D	605	ASP
3	D	606	ILE
3	D	611	GLN
3	D	619	LEU
3	D	621	LYS
3	D	625	TYR
3	D	635	PRO
3	D	637	LEU
3	D	641	GLN
3	D	642	CYS
3	D	644	LEU
3	D	651	GLU
3	D	653	PHE
3	D	655	PRO
3	D	661	MET
3	D	662	GLU
3	D	676	MET
3	D	688	TRP
3	D	695	ILE
3	D	701	LEU
3	D	703	ASN
3	D	710	ARG
3	D	716	PHE
3	D	717	GLN
3	D	749	VAL
3	D	764	LEU

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Mol	Chain	Res	Type
3	D	778	LEU
3	D	781	PRO
3	D	783	ARG
3	D	792	ILE
3	D	794	GLN
3	D	796	ARG
3	D	804	LEU
3	D	808	THR
3	D	813	LEU
3	D	828	LYS
3	D	829	VAL
3	D	834	THR
3	D	858	VAL
3	D	859	ASP
3	D	861	GLN
3	D	863	VAL
3	D	867	ARG
3	D	868	TYR
3	D	875	THR
3	D	880	ILE
3	D	890	VAL
3	D	892	ASP
3	D	897	TRP
3	D	899	LEU
3	D	902	LEU
3	D	911	LEU
3	D	919	PHE
3	D	920	LEU
3	D	936	TYR
3	D	940	THR
3	D	947	ILE
3	D	951	ILE
3	D	956	ILE
3	D	969	ARG
3	D	972	LEU
3	D	985	ASP
3	D	988	ARG
3	D	1001	GLU
3	D	1020	LEU
3	D	1039	CYS
3	D	1042	ARG
3	D	1044	LEU

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Mol	Chain	Res	Type
3	D	1046	GLN
3	D	1052	THR
3	D	1055	VAL
3	D	1062	ARG
3	D	1068	LEU
3	D	1074	SER
3	D	1093	TYR
3	D	1109	GLU
3	D	1130	ARG
3	D	1134	LEU
3	D	1136	LYS
3	D	1137	ARG
3	D	1151	ARG
3	D	1152	GLU
3	D	1161	GLU
3	D	1164	ARG
3	D	1167	SER
3	D	1172	HIS
3	D	1182	GLU
3	D	1189	ARG
3	D	1191	PRO
3	D	1195	GLN
3	D	1197	ARG
3	D	1204	CYS
3	D	1207	TYR
3	D	1211	MET
3	D	1213	ARG
3	D	1223	ILE
3	D	1231	GLU
3	D	1234	THR
3	D	1251	ASP
3	D	1274	ILE
3	D	1285	GLU
3	D	1304	LYS
3	D	1307	LYS
3	D	1311	LEU
3	D	1314	LYS
3	D	1315	ASP
3	D	1323	GLN
3	D	1346	ARG
3	D	1350	GLU
3	D	1353	GLN

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Mol	Chain	Res	Type
3	D	1359	GLN
3	D	1363	LEU
3	D	1376	MET
3	D	1389	LEU
3	D	1396	GLU
3	D	1403	LEU
3	D	1410	GLU
3	D	1432	LYS
3	D	1434	TRP
3	D	1441	GLN
3	D	1442	ASN
3	D	1447	LEU
3	D	1483	PHE
3	D	1487	VAL
3	D	1492	LEU
4	E	10	PHE
4	E	13	VAL
4	E	23	VAL
4	E	28	GLN
4	E	35	PHE
4	E	40	LEU
4	E	46	PRO
4	E	59	ASN
4	E	61	GLU
4	E	77	GLU
4	E	78	ASN
4	E	81	PRO
5	F	76	SER
5	F	97	GLU
5	F	125	ASP
5	F	136	LEU
5	F	148	LYS
5	F	149	GLU
5	F	152	ASP
5	F	172	ARG
5	F	174	LEU
5	F	187	LEU
5	F	192	LEU
5	F	220	LEU
5	F	229	TYR
5	F	232	ARG
5	F	234	LYS

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Mol	Chain	Res	Type
5	F	245	GLN
5	F	249	ARG
5	F	256	ARG
5	F	272	SER
5	F	280	GLN
5	F	282	LEU
5	F	295	MET
5	F	318	GLU
5	F	321	ILE
5	F	328	PHE
5	F	329	TYR
5	F	335	ASP
5	F	336	GLU
5	F	341	PRO
5	F	347	GLN
5	F	349	LEU
5	F	363	GLU
5	F	364	ARG
5	F	377	ASP
5	F	398	ARG
5	F	399	GLN
5	F	405	LEU
5	F	410	TYR
5	F	419	ARG
1	K	19	GLU
1	K	26	GLU
1	K	38	ASN
1	K	47	SER
1	K	73	GLU
1	K	74	ASP
1	K	88	ARG
1	K	95	GLN
1	K	96	THR
1	K	113	ASP
1	K	115	LEU
1	K	124	ASN
1	K	138	LEU
1	K	146	ARG
1	K	148	VAL
1	K	156	HIS
1	K	159	LYS
1	K	161	ARG

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Mol	Chain	Res	Type
1	K	163	ASN
1	K	165	ILE
1	K	185	ARG
1	K	188	GLN
1	K	189	ARG
1	K	193	ASP
1	K	194	LYS
1	K	196	THR
1	K	205	VAL
1	K	206	THR
1	K	219	ARG
1	K	222	LEU
1	L	1	MET
1	L	2	LEU
1	L	5	LYS
1	L	9	PRO
1	L	12	THR
1	L	16	GLN
1	L	19	GLU
1	L	29	GLU
1	L	38	ASN
1	L	51	THR
1	L	62	LEU
1	L	77	GLU
1	L	95	GLN
1	L	112	ARG
1	L	115	LEU
1	L	124	ASN
1	L	126	ASP
1	L	140	MET
1	L	154	GLU
1	L	175	ARG
1	L	193	ASP
1	L	196	THR
1	L	200	TRP
1	L	201	THR
1	L	202	ASP
1	L	206	THR
1	L	213	GLN
2	M	6	PHE
2	M	9	ILE
2	M	20	GLU

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Mol	Chain	Res	Type
2	M	24	GLU
2	M	27	ARG
2	M	52	PHE
2	M	57	GLU
2	M	64	LEU
2	M	65	VAL
2	M	77	PRO
2	M	82	GLU
2	M	104	ASP
2	M	107	LEU
2	M	115	LEU
2	M	134	ARG
2	M	144	PRO
2	M	154	ARG
2	M	158	TYR
2	M	168	ARG
2	M	170	PRO
2	M	173	ASP
2	M	184	MET
2	M	186	VAL
2	M	190	LYS
2	M	198	ARG
2	M	203	ASP
2	M	209	ARG
2	M	221	LEU
2	M	230	ARG
2	M	242	LEU
2	M	243	ARG
2	M	249	LYS
2	M	256	TYR
2	M	266	ARG
2	M	269	LEU
2	M	275	TYR
2	M	281	LEU
2	M	288	ARG
2	M	290	LEU
2	M	301	GLU
2	M	321	GLU
2	M	325	ILE
2	M	328	LEU
2	M	343	GLN
2	M	359	MET

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Mol	Chain	Res	Type
2	M	383	ARG
2	M	394	PHE
2	M	420	ARG
2	M	425	PHE
2	M	426	ASP
2	M	433	THR
2	M	441	VAL
2	M	455	LEU
2	M	485	TYR
2	M	486	MET
2	M	492	ASP
2	M	503	LEU
2	M	507	ARG
2	M	511	GLU
2	M	512	ARG
2	M	520	GLU
2	M	523	ILE
2	M	533	ASP
2	M	537	LYS
2	M	548	PRO
2	M	554	ASP
2	M	559	LEU
2	M	564	MET
2	M	571	LEU
2	M	584	GLU
2	M	585	GLU
2	M	586	ARG
2	M	607	ASP
2	M	614	ARG
2	M	627	ARG
2	M	628	PHE
2	M	630	ARG
2	M	633	GLN
2	M	650	ARG
2	M	670	GLN
2	M	673	LEU
2	M	677	MET
2	M	689	VAL
2	M	691	SER
2	M	698	ASP
2	M	699	PHE
2	M	722	ILE

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Mol	Chain	Res	Type
2	M	727	PRO
2	M	738	ASP
2	M	745	ILE
2	M	762	LYS
2	M	766	GLU
2	M	768	THR
2	M	771	GLU
2	M	799	ILE
2	M	807	ARG
2	M	820	ARG
2	M	821	GLU
2	M	837	ASP
2	M	868	ASP
2	M	881	ASN
2	M	886	LEU
2	M	897	LEU
2	M	903	SER
2	M	911	GLU
2	M	925	TYR
2	M	934	PHE
2	M	939	ARG
2	M	950	LEU
2	M	958	THR
2	M	959	PRO
2	M	962	GLN
2	M	971	LYS
2	M	979	THR
2	M	984	GLU
2	M	988	VAL
2	M	1005	MET
2	M	1016	ILE
2	M	1020	PRO
2	M	1052	MET
2	M	1054	THR
2	M	1064	ASN
2	M	1095	LEU
2	M	1104	GLU
2	M	1115	LEU
3	N	3	LYS
3	N	6	ARG
3	N	30	GLU
3	N	63	TYR

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Mol	Chain	Res	Type
3	N	68	PHE
3	N	73	CYS
3	N	75	ARG
3	N	76	CYS
3	N	84	ILE
3	N	103	TRP
3	N	107	ASP
3	N	121	THR
3	N	123	LEU
3	N	126	VAL
3	N	128	TYR
3	N	142	LEU
3	N	143	ASN
3	N	149	LYS
3	N	153	LEU
3	N	154	THR
3	N	156	GLU
3	N	171	LEU
3	N	199	LEU
3	N	205	TYR
3	N	206	ARG
3	N	208	PRO
3	N	216	VAL
3	N	217	LYS
3	N	218	LYS
3	N	224	ARG
3	N	225	LEU
3	N	227	LEU
3	N	230	TRP
3	N	232	GLU
3	N	241	ILE
3	N	249	TYR
3	N	367	ILE
3	N	376	GLU
3	N	378	ILE
3	N	387	LEU
3	N	393	ILE
3	N	394	LEU
3	N	406	ASP
3	N	434	ARG
3	N	450	TYR
3	N	456	MET

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Mol	Chain	Res	Type
3	N	502	PHE
3	N	503	LEU
3	N	505	SER
3	N	523	ASP
3	N	525	ARG
3	N	537	THR
3	N	554	LEU
3	N	564	GLU
3	N	569	ASN
3	N	576	GLU
3	N	583	ASP
3	N	594	PRO
3	N	600	LEU
3	N	601	ARG
3	N	605	ASP
3	N	629	SER
3	N	642	CYS
3	N	650	LEU
3	N	651	GLU
3	N	675	ARG
3	N	676	MET
3	N	681	ARG
3	N	689	ASP
3	N	692	GLU
3	N	693	GLU
3	N	702	LEU
3	N	703	ASN
3	N	704	ARG
3	N	710	ARG
3	N	717	GLN
3	N	732	VAL
3	N	736	PHE
3	N	749	VAL
3	N	754	PHE
3	N	760	ARG
3	N	763	MET
3	N	769	LEU
3	N	783	ARG
3	N	784	ASP
3	N	785	ILE
3	N	787	LEU
3	N	794	GLN

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Mol	Chain	Res	Type
3	N	796	ARG
3	N	799	LYS
3	N	820	GLU
3	N	828	LYS
3	N	829	VAL
3	N	832	ARG
3	N	833	GLU
3	N	836	VAL
3	N	838	ARG
3	N	845	ASN
3	N	862	ASP
3	N	879	ARG
3	N	892	ASP
3	N	893	GLU
3	N	897	TRP
3	N	899	LEU
3	N	903	ASP
3	N	927	THR
3	N	936	TYR
3	N	943	THR
3	N	947	ILE
3	N	951	ILE
3	N	968	ASP
3	N	986	ARG
3	N	988	ARG
3	N	990	ASP
3	N	991	GLN
3	N	997	THR
3	N	1001	GLU
3	N	1003	VAL
3	N	1012	GLU
3	N	1041	LEU
3	N	1045	MET
3	N	1046	GLN
3	N	1058	ARG
3	N	1062	ARG
3	N	1066	THR
3	N	1068	LEU
3	N	1078	ARG
3	N	1108	ARG
3	N	1109	GLU
3	N	1116	ASN

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Mol	Chain	Res	Type
3	N	1117	TYR
3	N	1122	LEU
3	N	1127	GLU
3	N	1135	ARG
3	N	1139	ASP
3	N	1152	GLU
3	N	1166	LEU
3	N	1168	MET
3	N	1189	ARG
3	N	1190	SER
3	N	1201	CYS
3	N	1207	TYR
3	N	1208	ASP
3	N	1211	MET
3	N	1219	GLU
3	N	1223	ILE
3	N	1231	GLU
3	N	1234	THR
3	N	1241	PHE
3	N	1252	ILE
3	N	1282	ARG
3	N	1290	LEU
3	N	1304	LYS
3	N	1314	LYS
3	N	1315	ASP
3	N	1327	ARG
3	N	1346	ARG
3	N	1379	VAL
3	N	1388	ARG
3	N	1389	LEU
3	N	1390	LEU
3	N	1396	GLU
3	N	1410	GLU
3	N	1412	LYS
3	N	1432	LYS
3	N	1442	ASN
3	N	1472	ILE
3	N	1478	SER
3	N	1485	GLN
3	N	1492	LEU
4	O	10	PHE
4	O	32	ARG

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Mol	Chain	Res	Type
4	O	42	PRO
4	O	44	GLU
4	O	51	LEU
4	O	59	ASN
4	O	66	LYS
4	O	70	THR
4	O	79	LEU
4	O	81	PRO
4	O	83	ASP
5	P	128	ARG
5	P	134	LYS
5	P	152	ASP
5	P	245	GLN
5	P	285	GLU
5	P	286	PRO
5	P	302	LYS
5	P	318	GLU
5	P	324	GLU
5	P	336	GLU
5	P	337	HIS
5	P	341	PRO
5	P	365	GLU
5	P	372	ARG
5	P	394	ARG
5	P	398	ARG
5	P	408	LEU
5	P	410	TYR
5	P	421	PHE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (168) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	63	HIS
1	A	95	GLN
1	A	124	ASN
1	A	156	HIS
1	A	163	ASN
1	A	180	GLN
1	A	212	ASN
1	A	227	ASN
1	B	38	ASN

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Mol	Chain	Res	Type
1	B	63	HIS
1	B	95	GLN
1	B	124	ASN
1	B	156	HIS
1	B	163	ASN
1	B	212	ASN
1	B	221	HIS
1	B	229	GLN
2	C	22	GLN
2	C	31	GLN
2	C	41	ASN
2	C	45	GLN
2	C	91	GLN
2	C	102	HIS
2	C	141	HIS
2	C	179	ASN
2	C	343	GLN
2	C	406	HIS
2	C	431	HIS
2	C	434	HIS
2	C	538	GLN
2	C	545	ASN
2	C	563	ASN
2	C	632	ASN
2	C	633	GLN
2	C	663	ASN
2	C	671	ASN
2	C	704	HIS
2	C	829	GLN
2	C	834	GLN
2	C	841	ASN
2	C	860	HIS
2	C	881	ASN
2	C	889	HIS
2	C	969	GLN
2	C	1030	GLN
2	C	1100	GLN
2	C	1107	ASN
3	D	151	GLN
3	D	166	GLN
3	D	442	ASN
3	D	462	GLN

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Mol	Chain	Res	Type
3	D	507	ASN
3	D	560	GLN
3	D	575	GLN
3	D	703	ASN
3	D	709	HIS
3	D	714	GLN
3	D	717	GLN
3	D	727	GLN
3	D	756	GLN
3	D	794	GLN
3	D	855	HIS
3	D	973	GLN
3	D	994	GLN
3	D	1046	GLN
3	D	1103	HIS
3	D	1323	GLN
3	D	1334	GLN
3	D	1353	GLN
3	D	1359	GLN
3	D	1374	GLN
3	D	1404	ASN
3	D	1441	GLN
3	D	1485	GLN
3	D	1489	GLN
4	E	28	GLN
5	F	83	GLN
5	F	90	GLN
5	F	161	GLN
5	F	191	ASN
5	F	277	GLN
5	F	312	GLN
1	K	63	HIS
1	K	95	GLN
1	K	124	ASN
1	K	156	HIS
1	K	180	GLN
1	K	188	GLN
1	K	212	ASN
1	K	229	GLN
1	L	95	GLN
1	L	124	ASN
1	L	163	ASN

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Mol	Chain	Res	Type
1	L	212	ASN
1	L	221	HIS
2	M	91	GLN
2	M	117	HIS
2	M	130	ASN
2	M	139	GLN
2	M	343	GLN
2	M	393	GLN
2	M	431	HIS
2	M	506	ASN
2	M	538	GLN
2	M	543	ASN
2	M	552	HIS
2	M	563	ASN
2	M	575	GLN
2	M	609	ASN
2	M	632	ASN
2	M	639	GLN
2	M	663	ASN
2	M	670	GLN
2	M	671	ASN
2	M	704	HIS
2	M	829	GLN
2	M	834	GLN
2	M	841	ASN
2	M	845	ASN
2	M	881	ASN
2	M	889	HIS
2	M	899	GLN
2	M	920	GLN
2	M	999	HIS
2	M	1019	GLN
2	M	1026	GLN
2	M	1064	ASN
2	M	1100	GLN
3	N	101	HIS
3	N	125	GLN
3	N	151	GLN
3	N	166	GLN
3	N	529	GLN
3	N	549	ASN
3	N	551	ASN

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Mol	Chain	Res	Type
3	N	575	GLN
3	N	636	GLN
3	N	641	GLN
3	N	703	ASN
3	N	714	GLN
3	N	727	GLN
3	N	756	GLN
3	N	768	ASN
3	N	794	GLN
3	N	1031	ASN
3	N	1034	GLN
3	N	1046	GLN
3	N	1075	HIS
3	N	1116	ASN
3	N	1184	GLN
3	N	1195	GLN
3	N	1202	GLN
3	N	1227	GLN
3	N	1323	GLN
3	N	1334	GLN
3	N	1359	GLN
3	N	1485	GLN
3	N	1489	GLN
4	O	28	GLN
4	O	29	GLN
4	O	59	ASN
4	O	86	GLN
5	P	86	HIS
5	P	214	GLN
5	P	217	ASN
5	P	218	GLN
5	P	347	GLN

### 5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

## 5.6 Ligand geometry [i](#)

Of 8 ligands modelled in this entry, 6 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$
6	STD	D	1525	-	42,47,47	2.12	13 (30%)	47,73,73	1.74	9 (19%)
6	STD	M	1120	-	42,47,47	1.93	12 (28%)	47,73,73	2.01	12 (25%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	STD	D	1525	-	-	7/31/101/101	0/5/5/5
6	STD	M	1120	-	-	12/31/101/101	0/5/5/5

All (25) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	1525	STD	C22-N2	4.98	1.40	1.33
6	D	1525	STD	C26-C25	4.63	1.60	1.52
6	D	1525	STD	O5-C19	4.46	1.47	1.43
6	D	1525	STD	O8-C19	4.16	1.46	1.43
6	M	1120	STD	C26-C25	4.12	1.59	1.52
6	D	1525	STD	C16-C13	3.84	1.61	1.53
6	M	1120	STD	C20-C3	-3.80	1.49	1.53
6	M	1120	STD	O4-C4	3.78	1.47	1.42
6	D	1525	STD	C15-C26	3.41	1.57	1.52
6	M	1120	STD	C22-N2	3.41	1.37	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	M	1120	STD	O8-C19	3.25	1.46	1.43
6	M	1120	STD	C16-C13	3.15	1.60	1.53
6	M	1120	STD	O5-C19	2.81	1.45	1.43
6	D	1525	STD	C17-C30	2.54	1.54	1.49
6	D	1525	STD	O1-C3	2.51	1.26	1.22
6	D	1525	STD	C4-N1	-2.47	1.42	1.45
6	M	1120	STD	C17-C30	2.47	1.53	1.49
6	M	1120	STD	C15-C26	2.46	1.55	1.52
6	D	1525	STD	O4-C4	2.36	1.45	1.42
6	D	1525	STD	C28-C32	2.26	1.53	1.50
6	M	1120	STD	C20-N1	2.24	1.50	1.47
6	D	1525	STD	O8-C17	2.14	1.47	1.44
6	M	1120	STD	C18-C16	2.13	1.57	1.53
6	D	1525	STD	C27-C25	2.13	1.56	1.51
6	M	1120	STD	O6-C22	2.12	1.27	1.23

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	M	1120	STD	O4-C4-N1	6.75	113.28	105.92
6	D	1525	STD	C29-C19-C28	-5.62	108.73	113.30
6	M	1120	STD	C29-C19-C28	-5.16	109.10	113.30
6	M	1120	STD	O8-C19-C29	5.00	109.86	105.64
6	D	1525	STD	C19-O5-C13	4.56	117.72	112.80
6	D	1525	STD	O8-C19-C29	3.83	108.87	105.64
6	D	1525	STD	C2-C1-C3	-3.76	103.84	107.80
6	M	1120	STD	C19-O5-C13	3.50	116.58	112.80
6	M	1120	STD	C2-C1-C3	-3.11	104.53	107.80
6	M	1120	STD	O8-C17-C30	-2.69	109.04	111.68
6	D	1525	STD	C21-C22-N2	-2.65	112.40	116.33
6	D	1525	STD	O6-C22-C21	2.57	125.65	121.02
6	D	1525	STD	C31-O9-C28	2.55	64.73	61.14
6	M	1120	STD	C6-C5-C1	2.44	127.01	124.51
6	M	1120	STD	O1-C3-C1	-2.43	122.67	128.52
6	M	1120	STD	O9-C31-C28	-2.41	55.88	58.89
6	D	1525	STD	O8-C17-C30	-2.40	109.33	111.68
6	M	1120	STD	C6-C7-C8	-2.35	122.68	126.23
6	M	1120	STD	C31-O9-C28	2.23	64.28	61.14
6	D	1525	STD	O9-C31-C28	-2.05	56.34	58.89
6	M	1120	STD	O4-C25-C27	2.03	111.08	106.70

There are no chirality outliers.

All (19) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	D	1525	STD	N1-C20-C21-C22
6	D	1525	STD	N1-C20-C21-C23
6	D	1525	STD	C3-C20-C21-C23
6	M	1120	STD	O4-C4-N1-C20
6	M	1120	STD	C9-C10-C13-C16
6	M	1120	STD	C9-C10-C13-O5
6	M	1120	STD	C14-C10-C13-C16
6	M	1120	STD	C14-C10-C13-O5
6	M	1120	STD	N1-C20-C21-C22
6	M	1120	STD	N1-C20-C21-C23
6	M	1120	STD	C3-C20-C21-C23
6	M	1120	STD	C23-C21-C22-N2
6	M	1120	STD	C23-C21-C22-O6
6	D	1525	STD	C14-C10-C9-C8
6	D	1525	STD	C13-C10-C9-C8
6	M	1120	STD	C5-C6-C7-C8
6	D	1525	STD	C3-C20-C21-C22
6	M	1120	STD	C3-C20-C21-C22
6	D	1525	STD	O4-C4-N1-C2

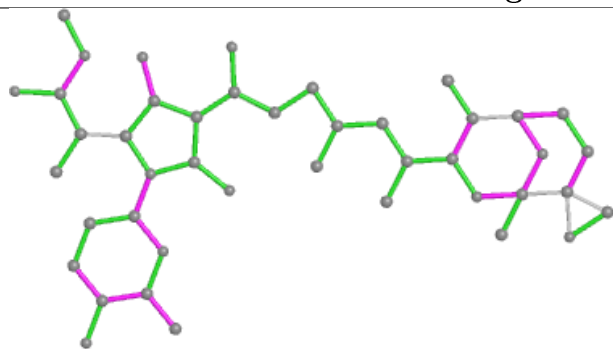
There are no ring outliers.

2 monomers are involved in 18 short contacts:

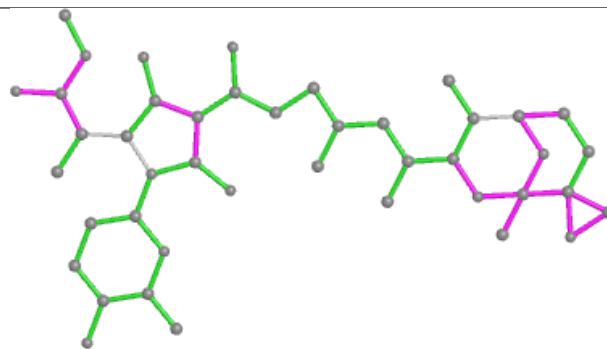
Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	D	1525	STD	10	0
6	M	1120	STD	8	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

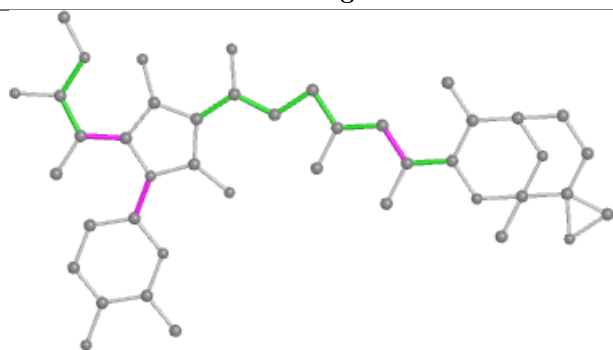
## Ligand STD D 1525



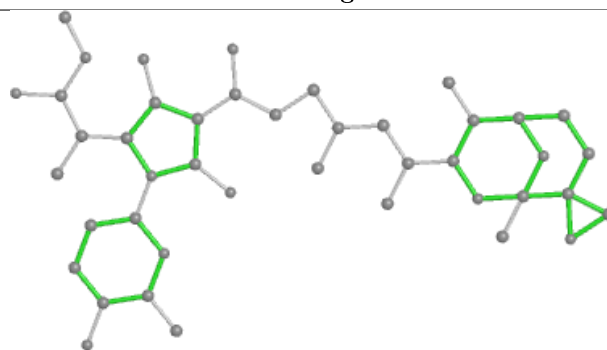
Bond lengths



Bond angles

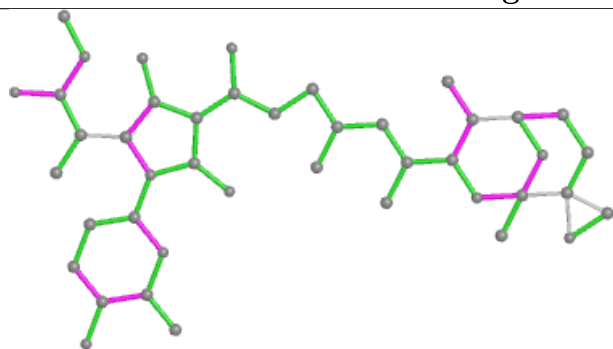


Torsions

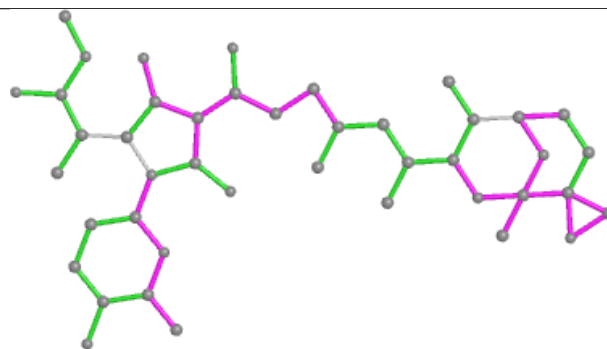


Rings

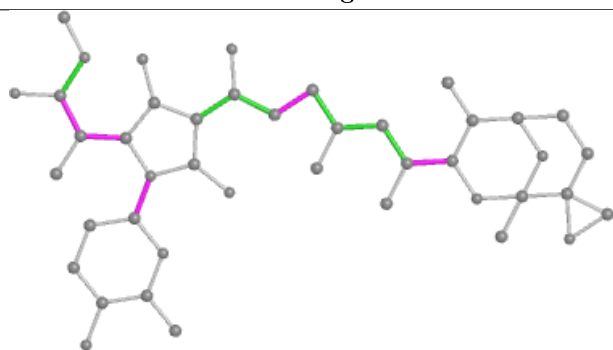
## Ligand STD M 1120



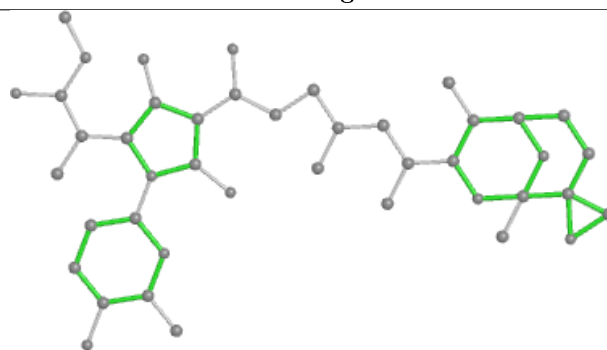
Bond lengths



Bond angles



Torsions



Rings

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 6 Fit of model and data

### 6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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%)	-0.58	0 <span>100</span> <span>100</span>	32, 58, 89, 110	0
1	B	229/315 (72%)	-0.52	1 (0%) <span>92</span> <span>79</span>	45, 96, 120, 124	0
1	K	229/315 (72%)	-0.56	0 <span>100</span> <span>100</span>	24, 57, 82, 111	0
1	L	229/315 (72%)	-0.62	0 <span>100</span> <span>100</span>	43, 78, 96, 117	0
2	C	1119/1119 (100%)	-0.55	5 (0%) <span>92</span> <span>79</span>	21, 67, 123, 137	0
2	M	1119/1119 (100%)	-0.54	3 (0%) <span>94</span> <span>84</span>	21, 69, 120, 130	0
3	D	1392/1524 (91%)	-0.53	10 (0%) <span>87</span> <span>69</span>	20, 64, 107, 125	0
3	N	1392/1524 (91%)	-0.48	19 (1%) <span>75</span> <span>49</span>	20, 64, 125, 140	0
4	E	95/99 (95%)	-0.56	0 <span>100</span> <span>100</span>	52, 82, 99, 102	0
4	O	95/99 (95%)	-0.52	0 <span>100</span> <span>100</span>	46, 86, 114, 119	0
5	F	345/423 (81%)	-0.57	1 (0%) <span>94</span> <span>84</span>	53, 77, 97, 104	0
5	P	345/423 (81%)	-0.57	0 <span>100</span> <span>100</span>	47, 81, 97, 108	0
All	All	6818/7590 (89%)	-0.53	39 (0%) <span>89</span> <span>72</span>	20, 69, 118, 140	0

All (39) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	N	406	ASP	5.8
3	D	802	ALA	5.5
3	D	205	TYR	5.4
3	D	801	GLY	4.9
3	N	224	ARG	4.3
2	M	267	TYR	4.1
3	D	410	SER	4.0
2	C	211	LEU	3.8
3	N	425	GLY	3.7
3	D	1398	TRP	3.4
2	C	196	LEU	3.3

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Mol	Chain	Res	Type	RSRZ
3	N	112	ILE	3.1
3	N	199	LEU	3.1
3	N	424	GLY	3.1
3	N	381	ALA	3.0
3	N	1398	TRP	3.0
3	N	387	LEU	2.8
3	N	412	GLY	2.8
3	N	1251	ASP	2.8
3	D	1245	GLY	2.7
3	N	1240	THR	2.6
3	D	1244	GLY	2.6
2	C	186	VAL	2.5
3	D	128	TYR	2.5
3	N	128	TYR	2.4
3	N	371	ILE	2.4
3	D	428	LYS	2.4
3	N	1241	PHE	2.3
2	M	222	MET	2.3
3	N	388	HIS	2.3
2	C	267	TYR	2.3
3	N	413	ASP	2.3
3	D	1241	PHE	2.3
3	N	178	LEU	2.2
5	F	95	THR	2.2
3	N	186	VAL	2.1
2	C	271	GLU	2.1
2	M	186	VAL	2.0
1	B	1	MET	2.0

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

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

## 6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

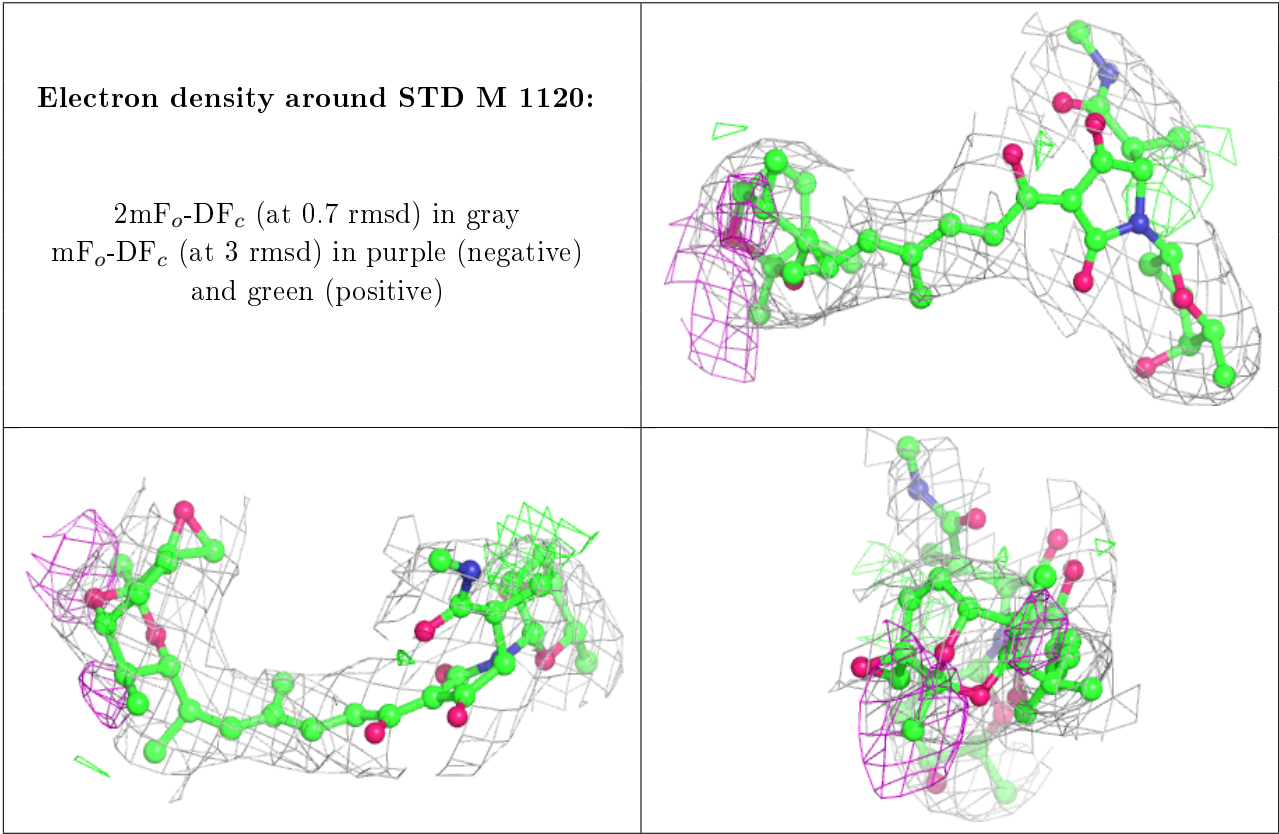
## 6.4 Ligands [i](#)

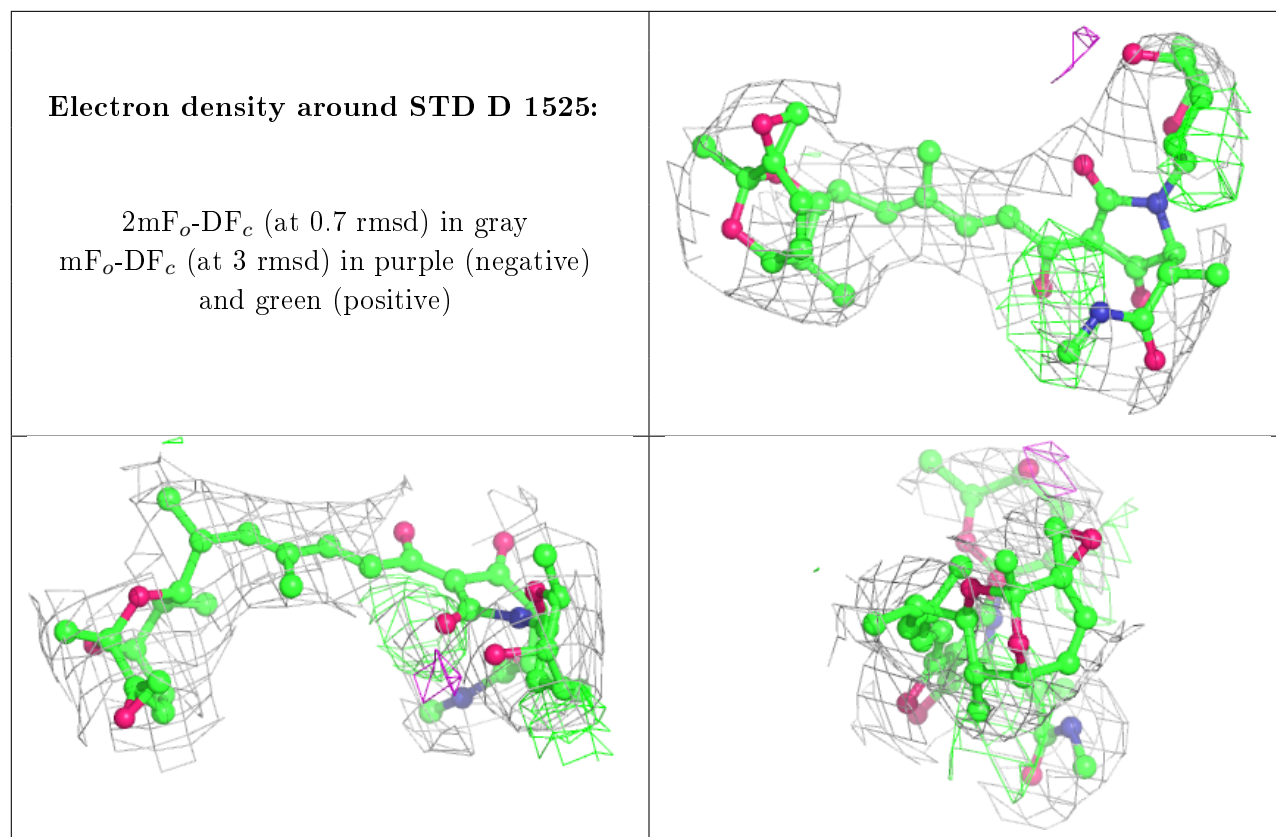
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,

median, 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	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
6	STD	M	1120	43/43	0.92	0.20	39,51,53,56	0
6	STD	D	1525	43/43	0.95	0.17	39,59,62,63	0
8	MG	N	9902	1/1	0.96	0.22	30,30,30,30	0
8	MG	D	9901	1/1	0.97	0.13	20,20,20,20	0
7	ZN	D	9002	1/1	0.98	0.22	47,47,47,47	0
7	ZN	D	9001	1/1	0.99	0.20	56,56,56,56	0
7	ZN	N	9004	1/1	0.99	0.23	56,56,56,56	0
7	ZN	N	9003	1/1	0.99	0.24	55,55,55,55	0

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





## 6.5 Other polymers [i](#)

There are no such residues in this entry.