



Full wwPDB EM Validation Report ⓘ

Mar 26, 2026 – 05:09 AM UTC

PDB ID : 6M7J / pdb_00006m7j
EMDB ID : EMD-9047
Title : Mycobacterium tuberculosis RNAP with RbpA/us fork and Coralloporynin
Authors : Darst, S.A.; Campbell, E.A.; Boyaci Selcuk, H.; Chen, J.
Deposited on : 2018-08-20
Resolution : 4.40 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

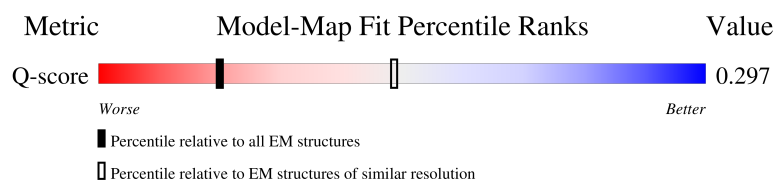
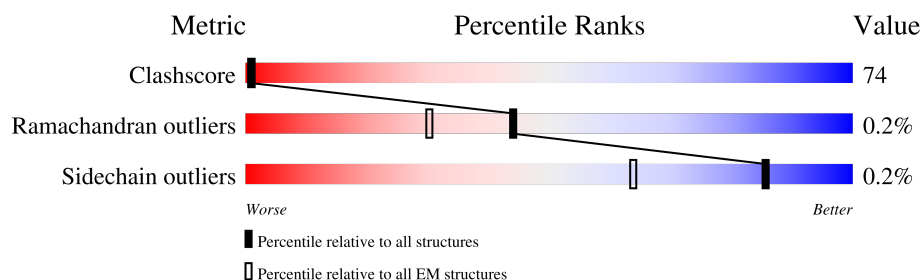
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.40 Å.

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



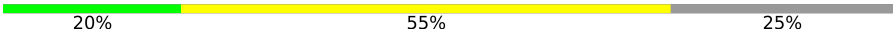
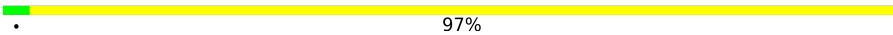
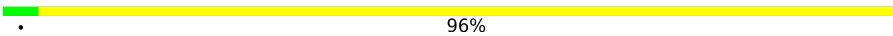
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	3132 (3.91 - 4.90)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	347	 12% 52% 35%
1	B	347	 14% 54% 32%
2	C	1179	 21% 72% 6%
3	D	1326	 24% 72% 5%

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Mol	Chain	Length	Quality of chain
4	E	110	
5	F	531	
6	J	111	
7	O	31	
8	P	26	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
11	C0L	D	1404	-	-	X	-

2 Entry composition [i](#)

There are 11 unique types of molecules in this entry. The entry contains 27223 atoms, of which 40 are hydrogens and 0 are deuteriums.

In the tables below, 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 subunit alpha.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	225	Total	C	N	O	S	0	0
			1716	1080	296	338	2		
1	B	237	Total	C	N	O	S	0	0
			1759	1112	298	346	3		

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	1111	Total	C	N	O	S	0	0
			8586	5378	1507	1662	39		

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	1179	LEU	-	expression tag	UNP V9Z879
C	1180	ALA	-	expression tag	UNP V9Z879
C	1181	ARG	-	expression tag	UNP V9Z879
C	1182	HIS	-	expression tag	UNP V9Z879
C	1183	GLY	-	expression tag	UNP V9Z879
C	1184	GLY	-	expression tag	UNP V9Z879
C	1185	SER	-	expression tag	UNP V9Z879

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

Mol	Chain	Residues	Atoms					AltConf	Trace
3	D	1266	Total	C	N	O	S	0	0
			9873	6184	1794	1853	42		

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	-1	GLY	-	expression tag	UNP A5U053
D	0	ALA	-	expression tag	UNP A5U053

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Chain	Residue	Modelled	Actual	Comment	Reference
D	1317	HIS	-	expression tag	UNP A5U053
D	1318	HIS	-	expression tag	UNP A5U053
D	1319	HIS	-	expression tag	UNP A5U053
D	1320	HIS	-	expression tag	UNP A5U053
D	1321	HIS	-	expression tag	UNP A5U053
D	1322	HIS	-	expression tag	UNP A5U053
D	1323	HIS	-	expression tag	UNP A5U053
D	1324	HIS	-	expression tag	UNP A5U053

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

Mol	Chain	Residues	Atoms				AltConf	Trace
4	E	83	Total	C	N	O	0	0
			649	414	108	127		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	1	GLY	-	expression tag	UNP A0A0T9N9K3

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

Mol	Chain	Residues	Atoms					AltConf	Trace
5	F	319	Total	C	N	O	S	0	0
			2518	1571	456	482	9		

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
F	-2	GLY	-	expression tag	UNP P9WGI0
F	-1	PRO	-	expression tag	UNP P9WGI0
F	0	HIS	-	expression tag	UNP P9WGI0

- Molecule 6 is a protein called RNA polymerase-binding protein RbpA.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	J	108	Total	C	N	O	S	0	0
			881	543	168	167	3		

- Molecule 7 is a DNA chain called DNA (31-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
7	O	31	Total	C	N	O	P	0	0
			634	305	114	185	30		

- Molecule 8 is a DNA chain called DNA (26-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
8	P	26	Total	C	N	O	P	0	0
			526	254	94	153	25		

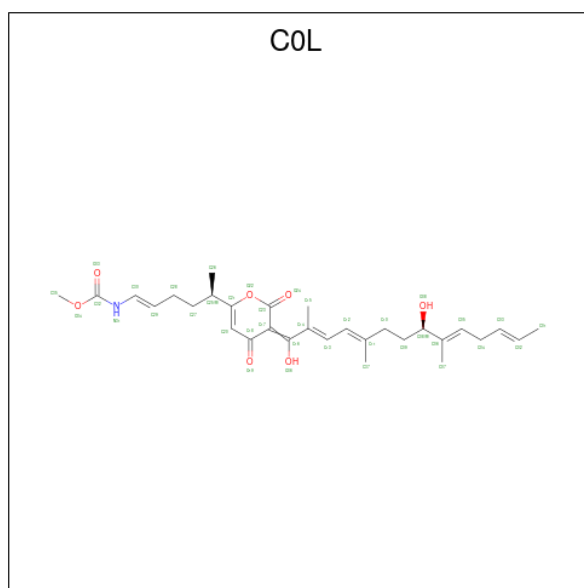
- Molecule 9 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		AltConf
9	D	2	Total	Zn	0
			2	2	

- Molecule 10 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
10	D	1	Total	Mg	0
			1	1	

- Molecule 11 is methyl [(1E,5R)-5-{(3E)-3-[(2E,4E,8R,9E,12E)-1,8-dihydroxy-2,5,9-trimethyltetradeca-2,4,9,12-tetraen-1-ylidene]-2,4-dioxo-3,4-dihydro-2H-pyran-6-yl}hex-1-en-1-yl]carbamate (CCD ID: C0L) (formula: C₃₀H₄₁NO₇) (labeled as "Ligand of Interest" by depositor).

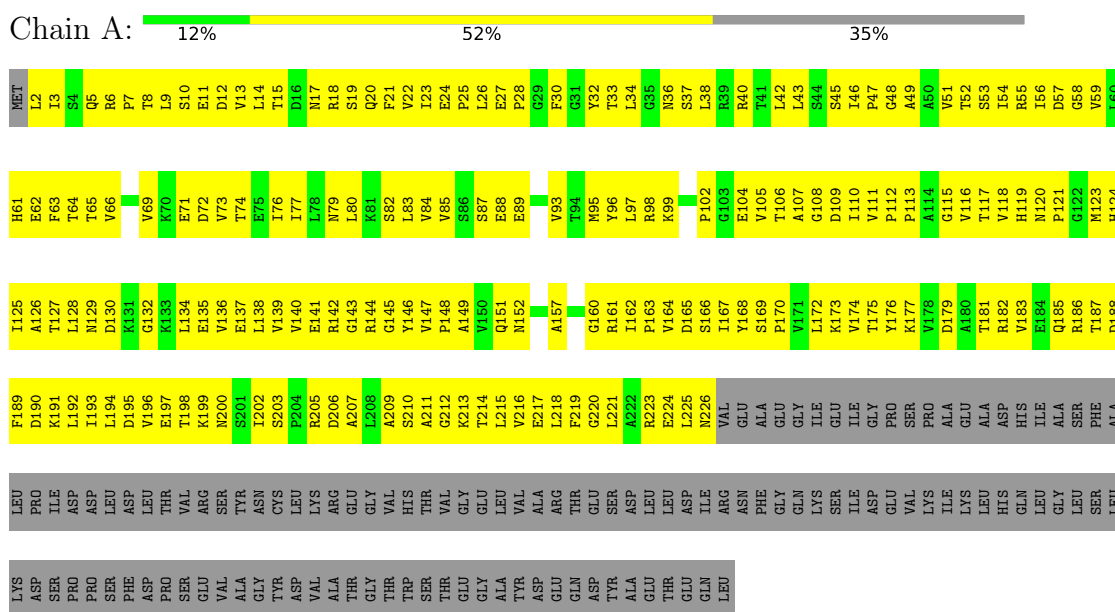


Mol	Chain	Residues	Atoms					AltConf
11	D	1	Total	C	H	N	O	0
			78	30	40	1	7	

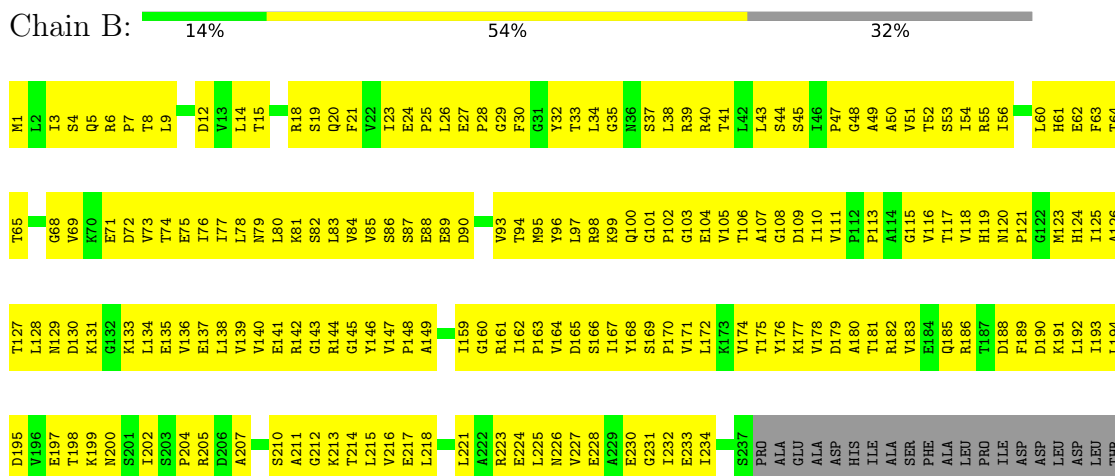
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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 subunit alpha



• Molecule 1: DNA-directed RNA polymerase subunit alpha



[illegible]

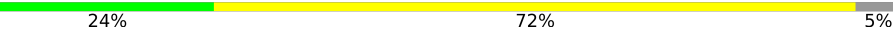
- Molecule 2: DNA-directed RNA polymerase subunit beta



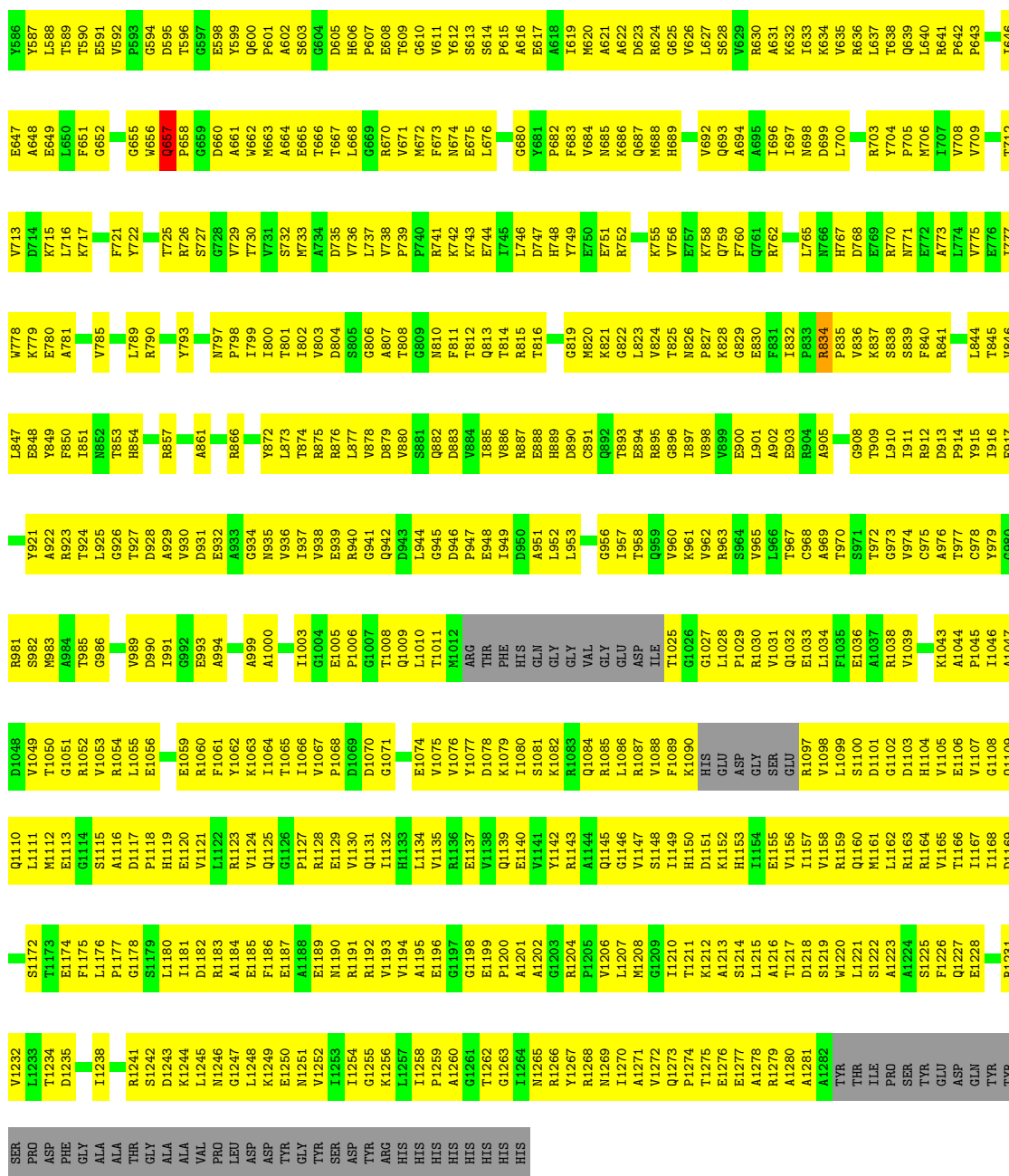
I769	C707	R584	V520	S456	I389	P327	K264	S201	F139	R71	MET
I770	T708	R585	D521	A457	R390	I328	D265	V202	I140	E72	ALA
I771	D710	R586	G522	L458	R391			K203	N141	S73	ASP
I772		R587	V523	G459	R395	T332	V268	I205	N142	E76	SER
I773		S588	V524	P460	M396	L333	T270	P206	N143	R77	GLN
I774	M713	V589	S525		E397	T334	D271	S207	G145		SER
I775	A714	A590		L463	R398	E335	E272	R208	E146	P82	LYS
I776	L715	T591	I528	S464	V399	E336	L273	G209	I147	V83	THR
I777	G716	A592	V529	R465	V400	D337	L274	A210	K148	G84	ALA
I778	K717		Y530		R401	D337	L274	A210	K148		ALA
I779	L718	F596	L531	A468	E402	V338	L275	W211	S149	G85	ALA
I780	L719	L597	T532	G469	E402	V339	L276	L212	Q150	L86	SER
I781	L720	E598	A533	L470	R403	A340	L277	E213	T151	E87	PRO
I782	V721	H599	D534	E471	M404	I341	Y278	F214	V152	E88	SER
I783	T722	D600	E535	W472	T405	I342	R279	D215	F153	V89	PRO
I784	L723	D601	E536	R473	T406	E343	K280	W216	M154		SER
I785	M724	A602		D474	Q407	Y344	L281	D217			SER
I786	M725	M603	V540	W475	D408	I345	R382		G155	E92	ARG
I787	D633	R604	V541	H476		V346	P383	D220	D156	L93	PRO
I788			V542	P477	I412	R347	G284	I226	F157	S94	GLN
I789	T666	A605	A542	H477	T413	E285	R283	I226	P158	P95	SER
I790	R667	L606	Q543	S478	T413	H348	G284	V222	M159	I96	SER
I791	G728	M607	Q544	H479	P414	P286	E286	G223	M160	E97	SER
I792	H729	M607	A544		E350	P287	E287	V224	T161	D98	ASN
I793	M730	G608	N545		G351	T388	R288	R225	E162		
I794	G731	A609	P546	R482	T416	T356	R289	I226	K163	S102	S30
I795	E732	M610	S547	M483	L417	Q552	K289	I226	K163	S102	S30
I796	D733	M611	I548	C484	I418	T353	E291	D227	G164	M103	V32
I797	A734	Q612	D549	P485	N419	T354	S290	R228	T165	S104	P33
I798	K674	R613			I420	T355	A292	K229	F166	L105	G34
I799	T736	Q614			R421	T356	Q293	R230	I167	S106	A35
I800	L737	A615	G552	T488	P422	T357	T294	R331	I168	F107	
I801	S738	V616	R553	P489	V423	P358	T294	R331	I168	F107	
I802	G739	L654	V554	E490	W424	G359	L296	Q232	M169	S108	R38
I803	M679	L618	V555	G491	A425	G360	E297	P233	G170	D109	V39
I804	H680	L618	E556	N492	A425	V361	N298	V234	T171	P110	S40
I805	L741	V619	P557	N493	A426	G361	N298	T235		R111	F41
I806	V742	R620	R558	I494	I427	E362	L299	V236	V174	F112	A42
I807	E743	S621	V559	G495	K428	V363	F300	L237	V175	D113	K43
I808	E744	C683	L560	L496	E429	P364	F301	L238		D114	
I809	D745	A694	V561	I497	E429	V365	K302	L238	Q178	V115	E46
I810	V746	M685	R562	G498	F431	E366	E303	K239	L179	K116	P47
I811	L747	G696	R563	S499	G432	T367	K304	A240	V180	A117	E48
I812	T748	C687	L625	G496	G432	T367	K304	L241	R181	P118	E49
I813	M749	V626	K564	L500	T433	D368	R305	G242	R181	V119	V50
I814	S749	G627	A565	S501	S434	D369	Y306	W243	S182	V119	
I815	V750	L628	G566	V502	Q435		D307	L244	P183	D120	P51
I816	L751	G629	E567	Y503	H372		L308	S245	G184	E121	
I817	T752	M630	V568	A504	R373	G374	A309	E246	V185	K122	L54
I818	D691	E331	E569	R505	Q437	G374	R310	Q247	V186	C123	D55
I819	E753	R632	L632	V506	F439	N375	V311	I248	F187	K122	
I820	V754	G683	V570	N507	M440	R376	G312		D188		T58
I821	H755	A694	P572	P508	D441	R377	R313	F252	E189	D126	D59
I822	E756	R695	A573	F509	Q442	L378	Y314	G253	T190	T128	
I823		R636	S574	G510	N443	R379	K315	F254	I191	I129	S60
I824	A759	D637	E575	F511		T380	V316	A130	S255	D192	F61
I825	R760	L638	V576	I512	L446	V381	N317	E256	K193	A131	E63
I826	D761	G699	E576	I512	S447	G382		I257	S194	P132	L64
I827	T762	Q700	D577	E513		E383	L320	M258	T195	L133	L65
I828	A763	D640	V578	P514		H384	G321	R259	D196	F134	G66
I829	L764	V641	M579	P515	H451						
I830	T765	V642	D580	V516	K452	L385	R322	G323	K197	V135	S87
I831	G766	V643	V581	R517	R454	Q386	H323	S260	T198	T136	P68
I832	A766	V643	V581	R517	R454	Q386	H323	S260	T198	T136	P68
I833	D704	V643	V581	R517	R454	Q386	H323	S260	T198	T136	P68
I834	T705	A644	S582	K518	N387	L387		L262	L199	E139	
I835	E766	E645	V549	V510	L455	O388	F206	E562	H202	A137	I720

T835	L899	V971	M1031	I1091	GLU
S836	P900	V972	K1032	K1092	ASP
L837	P901	V973	K1033	S1093	GLU
K838	V901	T974	H1034	T1094	ASP
E902	E902	P975	L1035	D1094	LEU
P840	D903	V976	L1036	T1096	GLU
H841	M904	F977	L1037	V1097	ARG
G842	P905	G978	D1038	G1098	ALA
E843	P906	D979	D1039	I1099	ALA
S844	L907	A980	K1040	K1100	ALA
G845	A908	Q981	I1041	V1101	ASN
K846	D909	E982	H1042	V1102	LEU
V847	G910	A983	A1043	V1103	GLY
	T911	E984	R1044	E1104	ILE
I850	P912	L985	S1045	A1105	ASN
R851	V913	Q986	T1046	I1106	LEU
V852	D914	G987	G1047	V1107	SER
F853	I915	L988	P1048	K1108	ARG
S854	I916	L989	Y1049	G1109	ASN
R855		S990	S1050	E1110	GLU
E856	V922	C991	M1051	N1111	SER
D857	P923	T992	I1052	I1112	ALA
E858	R924	L993	T1053	P1113	ALA
D859	R925	P994	Q1054	E1114	VAL
E860	M926	N995	Q1055	P1115	GLU
L861	N927	R996	P1056	G1116	ASP
P862	I928	D997	L1057	I1117	LEU
A863	G929	G998	G1058	P1118	ALA
G864	Q930	D999	G1059	E1119	LEU
V865	I931	V1000	K1060	S1120	ALA
N866	L932	L1001	A1061	F1121	ARG
E867	E933	V1002	Q1062	K1122	HIS
L868	T934	D1003	F1063	L1123	GLY
V869		A1004	G1064	L1124	GLY
R870	H941	D1005	G1065	L1125	SER
V871	S942	K1006	Q1066	K1126	
V872	G943	K1007	R1067	L1127	
V873	W944	A1008	F1068	L1128	
A874	K945	M1009	G1069	Q1129	
Q875	V946	L1010	E1070	S1130	
K876		F1011	M1071	L1131	
R877	V952	D1012	E1072	G1132	
K878	D953	G1013	G1073	L1133	
L879	D954	R1014	K1074	N1134	
S880	W955	S1015	A1075	V1135	
D881	A956	G1016	M1076	I1136	
G882	A957	E1017	Q1077	V1137	
D883	R958	P1018	A1078	L1138	
K884	L959	F1019	Y1079	S1139	
L885	P960	P1020	G1080	S1140	
A886	D961	Y1021	A1081	ASP	
G887	E962	P1022	A1082	GLY	
L888	L963	V1023	Y1083	ALA	
H889	L964	T1024	T1084	ALA	
G890	E965	V1025	L1085	ILE	
N891	A966	G1026	Q1086	GLU	
K892	Q967	Y1027	E1087	LEU	
	P968	M1028	L1088	ARG	
I895	N969	Y1029	L1089	GLU	
G896	A970	T1030	T1090	GLY	

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

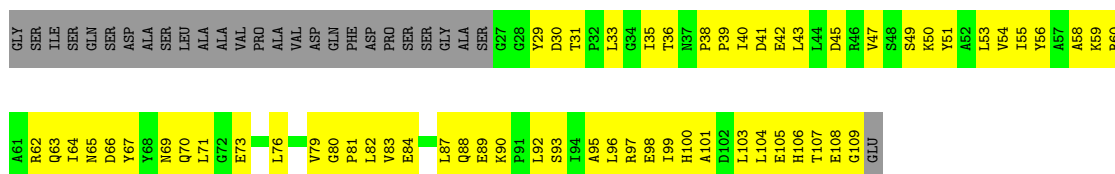
Chain D:  24% 72% 5%

G-1	G43	I128	R194	G257	R325	V391	R459	A521
N5	K64	I129	R195	S260	R326	R397	L460	I522
F6	Y65	F130	K196	L261	P327	P398	V461	Q523
F7	K66	Y131	V197	Q262	R328	P399	D462	L524
D8	V67	A132	R198	K263	Q329	K400	P526	H525
E9	K69	V133	D201	L264	Q329	S401	A466	P526
L10	F70	V135	G202	L265	R334	L402	Q467	L527
R11	K71	I136	E202	E266	F335	S403	M468	V528
I12	G72	T137	R203	N267	A336	D404	T469	C529
G13	I73	S138	E204	F268	L405	S471	K470	E530
L14	I74	V139	R205	D269	L406	L406	F532	A531
A15	C75	D140	R206	L270	L340		A472	F532
T16	E76	E141	Q207		N341	K409	K473	N533
A17	R77	E142	I208	A274	D342	Q410	R474	A534
E18	C78	M143	R209	E275	L343	Q411	M475	D535
D19	G79	R144	D210	L276	Y344	R412	V476	
I20	V80	H145	R211	S277	R345	N416	E477	M541
R21	E81	N146	A212	R278	R346	L417	R478	A542
Q22	V82	E147	Q213	D279	V347	L418	Q479	V543
W23	T83	L148	D214	V280	I348	L419	R480	H544
S24	R84	E149	R215	Q287	N349	G419	P481	L545
Y25	A85	T150	L216	K288	R350	K420	Q482	P546
G26	K86	D217	D218	N283	N351	R421	L547	L547
E27	V87	E152	R218	G284	N352	V422	V484	S548
V28	R88	A153	L219	K285	R353	D423	D485	A549
K29	R89	E154	E220	G286	L354	Y424	V486	E550
K30	E90	M155	D221	Q287	K355	Y424	L487	A551
P31	R91	A156	T222	K288	L356	G426	E488	Q552
E32	N92	V157	W223	K289	L357	R427	E489	A553
T33	Q93	E158		L290	L358	S428	V490	E554
I34	H94	R159	F226		D359		I491	A555
N35	E96	V162	T227	L293	L360	V431	A492	R556
Y36		E163	K228	K294	G361	V432	H494	I557
R37	P100	D164	L229	R295	A362	G432	H494	L558
T38	V101	Q165	A230	L296	P363	P434	V496	M559
L39	L102	R166	P231	K297	E364	Q435	L497	L560
K40	P41	H103	K232	V298	T365	L436	L498	S562
E42	D44	I104	Q233	V299	I366	K437	M499	N563
K43	D44	Y105	L234		V367	L438	R500	N564
G45	L46	F107	T235	F302	N368	H439	P502	L566
L46	F47	K108	D237	Q304	E370	C441	T503	S567
F47	C48	G109	E238	S305	R372	G442	L504	
C48	E49	V110	N239	G306	R373	L443	H505	
E49	X50	P111	L240	N307	M373	P444	R506	G571
X50	K50	S112	Y241	K310	L374	K445	L507	R572
J51	J51	R113	R242	G311	Q375	L446	G508	P573
F52	F52	L114	E243	G312	E376	M447	L574	L574
G53	G53	L118	L244	S377	V378	A448	Q510	A575
P54	P54	L119	V245	V312	D379	L449	A511	M576
T55	T55	D119	D246	L314	E450	F512	P512	P577
R56	R56	L120	R247	D315	A380	E513	R578	R578
D57	D57	A121	Y248	L381	L381	P514	P579	L579
V58	V58	D124	Y251	F382	K453	N515	D580	D580
E59	E59	L125	F252	P383	P318	L516	N581	N581
G60	G60	E126	T253	N384	V319	V517	V582	V582
V61	V61	A191	G385	G386	P321	V456	G584	G584
C62	C62	D192	N256	K458	P322	M457	S585	L585



• Molecule 4: DNA-directed RNA polymerase subunit omega

Chain E: 20% 55% 25%



• Molecule 5: RNA polymerase sigma factor SigA

Chain F: 17% 42% 40%

GLY	VAL	SER	ALA	L239	L302	L363	D441	R504	PRO	GLY	S209	L273	L239	L302	L363	D441	R504
PRO	LYS	VAL	PRO	L240	V303	R364	S442	Q505	ALA	GLN	E210	P274	L241	V304	R365	S445	Q506
HIS	ALA	GLU	ALA	N242	S305	I366	V445	I506	THR	ASP	A211	A275	N243	S306	I367	V446	I507
MET	SER	LEU	SER	A243	L306	R367	A447	E507	ALA	ASP	L212	Q277	A244	A307	I368	V448	T510
ALA	ALA	PRO	ALA	E245	K308	I369	V448	M511	THR	ASP	A215	R279	E246	A308	I370	V449	M512
THR	GLN	GLU	GLN	E247	Y310	P370	D449	S512	THR	ASP	R216	R280	E248	A309	H371	A450	S513
LYS	ASP	PRO	ASP	E249	Y311	H372	A451	L514	THR	THR	R217	D280	E250	A310	M373	A452	L515
THR	THR	THR	THR	E251	Y312	V373	V452	R515	THR	THR	R218	D281	E252	A311	M374	A453	R516
ALA	THR	THR	THR	E253	Y313	V374	V454	H516	THR	THR	R219	D282	E254	A312	M375	A454	H517
ASP	SER	THR	SER	E255	Y314	V375	V455	V522	THR	THR	R220	D283	E256	A313	M376	A455	V523
GLU	THR	THR	THR	E257	Y315	V376	V456	L523	THR	THR	R221	D284	E258	A314	M377	A456	L524
VAL	ILE	GLU	THR	E259	Y316	V377	V457	R524	THR	THR	R222	D285	E260	A315	M378	A457	R525
LYS	PRO	PRO	PRO	E261	Y317	V378	V458	D525	THR	THR	R223	D286	E262	A316	M379	A458	D526
VAL	GLY	GLY	GLY	E263	Y318	V379	V459	Y526	THR	THR	R224	D287	E264	A317	M380	A459	Y527
ASP	GLY	GLY	GLY	E265	Y319	V380	V460	L527	THR	THR	R225	D288	E266	A318	M381	A460	ASP
ARG	LYS	LEU	LYS	E267	Y320	V381	V461	ASP	THR	THR	R226	D289	E268	A319	M382	A461	
THR	THR	THR	THR	E269	Y321	V382	V462		THR	THR	R227	D290	E270	A320	M383	A462	
ALA	ARG	ALA	ARG	E271	Y322	V383	V463		THR	THR	R228	D291	E272	A321	M384	A463	
LYS	ALA	ALA	ALA	E273	Y323	V384	V464		THR	THR	R229	D292	E274	A322	M385	A464	
SER	ALA	ALA	ALA	E275	Y324	V385	V465		THR	THR	R230	D293	E276	A323	M386	A465	
PRO	LYS	LEU	LYS	E277	Y325	V386	V466		THR	THR	R231	D294	E278	A324	M387	A466	
ALA	ALA	ALA	ALA	E279	Y326	V387	V467		THR	THR	R232	D295	E280	A325	M388	A467	
ALA	ALA	ALA	ALA	E281	Y327	V388	V468		THR	THR	R233	D296	E282	A326	M389	A468	
GLY	ALA	GLY	ALA	E283	Y328	V389	V469		THR	THR	R234	D297	E284	A327	M390	A469	
LYS	LYS	PRO	LYS	E285	Y329	V390	V470		THR	THR	R235	D298	E286	A328	M391	A470	
ARG	ALA	ARG	ALA	E287	Y330	V391	V471		THR	THR	R236	D299	E288	A329	M392	A471	
THR	THR	THR	THR	E289	Y331	V392	V472		THR	THR	R237	D300	E290	A330	M393	A472	
LYS	ALA	LYS	ALA	E291	Y332	V393	V473		THR	THR	R238	D301	E292	A331	M394	A473	
ALA	ALA	ALA	ALA	E293	Y333	V394	V474		THR	THR	R239	D302	E294	A332	M395	A474	
SER	PRO	LEU	SER	E295	Y334	V395	V475		THR	THR	R240	D303	E296	A333	M396	A475	
ALA	ALA	ALA	ALA	E297	Y335	V396	V476		THR	THR	R241	D304	E298	A334	M397	A476	
LYS	LYS	LYS	LYS	E299	Y336	V397	V477		THR	THR	R242	D305	E300	A335	M398	A477	
GLY	ASP	GLY	ASP	E301	Y337	V398	V478		THR	THR	R243	D306	E302	A336	M399	A478	
PRO	ALA	PRO	ALA	E303	Y338	V399	V479		THR	THR	R244	D307	E304	A337	M400	A479	
LYS	LYS	LYS	LYS	E305	Y339	V400	V480		THR	THR	R245	D308	E306	A338	M401	A480	
ALA	ALA	ALA	ALA	E307	Y340	V401	V481		THR	THR	R246	D309	E308	A339	M402	A481	
SER	PRO	LEU	SER	E309	Y341	V402	V482		THR	THR	R247	D310	E310	A340	M403	A482	
ALA	ALA	ALA	ALA	E311	Y342	V403	V483		THR	THR	R248	D311	E312	A341	M404	A483	
GLY	ASP	GLY	ASP	E313	Y343	V404	V484		THR	THR	R249	D312	E314	A342	M405	A484	
PRO	ALA	PRO	ALA	E315	Y344	V405	V485		THR	THR	R250	D313	E316	A343	M406	A485	
LYS	LYS	LYS	LYS	E317	Y345	V406	V486		THR	THR	R251	D314	E318	A344	M407	A486	
ALA	ALA	ALA	ALA	E319	Y346	V407	V487		THR	THR	R252	D315	E320	A345	M408	A487	
LYS	LYS	LYS	LYS	E321	Y347	V408	V488		THR	THR	R253	D316	E322	A346	M409	A488	
GLY	ASP	GLY	ASP	E323	Y348	V409	V489		THR	THR	R254	D317	E324	A347	M410	A489	
PRO	ALA	PRO	ALA	E325	Y349	V410	V490		THR	THR	R255	D318	E326	A348	M411	A490	
LYS	LYS	LYS	LYS	E327	Y350	V411	V491		THR	THR	R256	D319	E328	A349	M412	A491	
ALA	ALA	ALA	ALA	E329	Y351	V412	V492		THR	THR	R257	D320	E330	A350	M413	A492	
ARG	ALA	ARG	ALA	E331	Y352	V413	V493		THR	THR	R258	D321	E332	A351	M414	A493	
LYS	LYS	LYS	LYS	E333	Y353	V414	V494		THR	THR	R259	D322	E334	A352	M415	A494	
THR	THR	THR	THR	E335	Y354	V415	V495		THR	THR	R260	D323	E336	A353	M416	A495	
LYS	LYS	LYS	LYS	E337	Y355	V416	V496		THR	THR	R261	D324	E338	A354	M417	A496	
ALA	ALA	ALA	ALA	E339	Y356	V417	V497		THR	THR	R262	D325	E340	A355	M418	A497	
ASP	ASP	ASP	ASP	E341	Y357	V418	V498		THR	THR	R263	D326	E342	A356	M419	A498	
GLY	GLY	GLY	GLY	E343	Y358	V419	V499		THR	THR	R264	D327	E344	A357	M420	A499	
PRO	PRO	PRO	PRO	E345	Y359	V420	V500		THR	THR	R265	D328	E346	A358	M421	A500	
ALA	ALA	ALA	ALA	E347	Y360	V421	V501		THR	THR	R266	D329	E348	A359	M422	A501	
ALA	ALA	ALA	ALA	E349	Y361	V422	V502		THR	THR	R267	D330	E350	A360	M423	A502	
ARG	ALA	ARG	ALA	E351	Y362	V423	V503		THR	THR	R268	D331	E352	A361	M424	A503	
LYS	LYS	LYS	LYS	E353	Y363	V424	V504		THR	THR	R269	D332	E354	A362	M425	A504	
THR	THR	THR	THR	E355	Y364	V425	V505		THR	THR	R270	D333	E356	A363	M426	A505	
LYS	LYS	LYS	LYS	E357	Y365	V426	V506		THR	THR	R271	D334	E358	A364	M427	A506	
ALA	ALA	ALA	ALA	E359	Y366	V427	V507		THR	THR	R272	D335	E360	A365	M428	A507	
ASP	ASP	ASP	ASP	E361	Y367	V428	V508		THR	THR	R273	D336	E362	A366	M429	A508	
GLY	GLY	GLY	GLY	E363	Y368	V429	V509		THR	THR	R274	D337	E364	A367	M430	A509	
PRO	PRO	PRO	PRO	E365	Y369	V430	V510		THR	THR	R275	D338	E366	A368	M431	A510	
LYS	LYS	LYS	LYS	E367	Y370	V431	V511		THR	THR	R276	D339	E368	A369	M432	A511	
ALA	ALA	ALA	ALA	E369	Y371	V432	V512		THR	THR	R277	D340	E370	A370	M433	A512	
ALA	ALA	ALA	ALA	E371	Y372	V433	V513		THR	THR	R278	D341	E372	A371	M434	A513	
ARG	ALA	ARG	ALA	E373	Y373	V434	V514		THR	THR	R279	D342	E374	A372	M435	A514	
THR	THR	THR	THR	E375	Y374	V435	V515		THR	THR	R280	D343	E376	A373	M436	A515	
LYS	LYS	LYS	LYS	E377	Y375	V436	V516		THR	THR	R281	D344	E378	A374	M437	A516	
ALA	ALA	ALA	ALA	E379	Y376	V437	V517		THR	THR	R282	D345	E380	A375	M438	A517	
ASP	ASP	ASP	ASP	E381	Y377	V438	V518		THR	THR	R283	D346	E382	A376	M439	A518	
GLY	GLY	GLY	GLY	E383	Y378	V439	V519		THR	THR	R284	D347	E384	A377	M440	A519	
VAL	VAL	VAL	VAL	E385	Y379	V440	V520		THR	THR	R285	D348	E386	A378	M441	A520	
LYS	LYS	LYS	LYS	E387	Y380	V441	V521		THR	THR	R286	D349	E388	A379	M442	A521	
ARG	ARG	ARG	ARG	E389	Y381	V442	V522		THR	THR	R287	D350	E390	A380	M443	A522	
THR	THR	THR	THR	E391	Y382	V443	V523		THR	THR	R288	D351	E392	A381	M444	A523	
ALA	ALA	ALA	ALA	E393	Y383	V444	V524		THR	THR	R289	D352	E394	A382	M445	A524	
ALA	ALA	ALA	ALA	E395	Y384	V445	V525		THR	THR	R290	D353	E396	A383	M446	A525	
LYS	LYS	LYS	LYS	E397	Y385	V446	V526		THR	THR	R291	D354	E398	A384	M447	A526	
ARG	ARG	ARG	ARG	E399	Y386	V447	V527		THR	THR	R292	D355	E400	A385	M448	A527	
THR	THR	THR	THR	E401	Y387	V448	V528		THR	THR	R293	D356	E402	A386	M449	A528	
ALA	ALA	ALA	ALA	E403	Y388	V449	V529		THR	THR	R294	D357	E404	A387	M450	A529	
ALA	ALA	ALA	ALA	E405	Y389	V450	V530		THR	THR	R295	D358	E406	A388	M451	A530	
LYS	LYS	LYS	LYS	E407	Y390	V451	V531		THR	THR	R296	D359	E408	A389	M452	A531	
ARG	ARG	ARG	ARG	E409	Y391	V452	V532		THR	THR	R297	D360	E410	A390	M453	A532	
THR	THR	THR	THR	E411	Y392	V453	V533		THR	THR	R298	D361	E412	A391	M454	A533	
LYS	LYS	LYS	LYS	E413	Y393	V454	V534		THR	THR	R299	D362	E414	A392	M455	A534	
ALA	ALA	ALA	ALA	E415	Y394	V455	V535		THR	THR	R300	D363	E416	A393	M456	A535	
ASP	ASP	ASP	ASP	E417	Y395	V456	V536		THR	THR	R301	D364	E418	A394	M457	A536	
GLY	GLY	GLY	GLY	E419	Y396	V457	V537		THR	THR	R302	D365	E420	A395	M458	A537	
PRO	PRO	PRO	PRO	E421	Y397	V4											

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	223000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	69.9	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	1.726	Depositor
Minimum map value	-0.457	Depositor
Average map value	0.006	Depositor
Map value standard deviation	0.082	Depositor
Recommended contour level	0.3	Depositor
Map size (Å)	332.8, 332.8, 332.8	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.3, 1.3, 1.3	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: MG, C0L, ZN

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	0.39	0/1742	0.58	0/2370
1	B	0.39	0/1786	0.60	0/2435
2	C	0.43	3/8744 (0.0%)	0.66	7/11860 (0.1%)
3	D	0.39	0/10037	0.63	4/13570 (0.0%)
4	E	0.38	0/662	0.54	0/901
5	F	0.38	0/2549	0.68	5/3438 (0.1%)
6	J	0.31	0/897	0.65	0/1210
7	O	0.41	0/710	0.45	0/1095
8	P	0.42	0/589	0.47	0/906
All	All	0.40	3/27716 (0.0%)	0.63	16/37785 (0.0%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1068	PHE	C-N	8.16	1.45	1.33
2	C	1068	PHE	CA-C	7.10	1.62	1.52
2	C	1074	TRP	CA-CB	6.59	1.64	1.53

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	447	ALA	CA-C-N	-11.04	103.02	120.47
5	F	447	ALA	C-N-CA	-11.04	103.02	120.47
2	C	1074	TRP	CA-CB-CG	10.67	133.87	113.60
2	C	282	ARG	CA-C-N	-10.21	108.80	119.83
2	C	282	ARG	C-N-CA	-10.21	108.80	119.83
2	C	1074	TRP	N-CA-CB	10.04	127.45	110.49
2	C	1073	CYS	N-CA-C	-7.58	94.66	110.80
3	D	657	GLN	CA-C-N	-6.88	111.24	119.84
3	D	657	GLN	C-N-CA	-6.88	111.24	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	657	GLN	N-CA-C	6.87	124.99	109.81
2	C	1067	ARG	N-CA-C	6.53	119.49	107.99
5	F	225	ALA	N-CA-C	6.51	124.68	110.80
5	F	446	VAL	CB-CA-C	-5.73	102.97	112.26
5	F	445	VAL	N-CA-C	5.70	116.95	108.23
2	C	1054	GLN	N-CA-C	-5.40	96.99	107.62
3	D	834	ARG	C-N-CD	-5.33	108.88	120.60

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1716	0	1756	299	0
1	B	1759	0	1783	335	0
2	C	8586	0	8511	1388	0
3	D	9873	0	9941	1494	0
4	E	649	0	645	94	0
5	F	2518	0	2540	425	0
6	J	881	0	861	161	0
7	O	634	0	350	75	0
8	P	526	0	296	65	0
9	D	2	0	0	0	0
10	D	1	0	0	0	0
11	D	38	40	0	22	0
All	All	27183	40	26683	3958	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 74.

All (3958) 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)
5:F:415:GLN:HA	5:F:418:ARG:CD	1.03	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1249:LYS:HE3	11:D:1404:C0L:N31	1.28	1.46
5:F:415:GLN:CA	5:F:418:ARG:CD	1.97	1.39
5:F:439:ILE:CA	6:J:6:LEU:HD12	1.53	1.37
3:D:641:ARG:N	3:D:657:GLN:HG2	1.40	1.35
2:C:1051:MET:SD	5:F:441:ASP:CG	2.08	1.34
2:C:1073:CYS:O	2:C:1075:ALA:N	1.62	1.30
5:F:415:GLN:CA	5:F:418:ARG:HD3	1.57	1.30
5:F:438:PHE:O	6:J:6:LEU:HG	1.26	1.28
3:D:334:ARG:NH1	5:F:418:ARG:C	2.01	1.19
3:D:640:LEU:C	3:D:657:GLN:HG3	1.66	1.18
2:C:229:LYS:O	2:C:230:ARG:HG2	1.36	1.17
3:D:334:ARG:HH12	5:F:418:ARG:C	1.52	1.16
5:F:415:GLN:HA	5:F:418:ARG:CG	1.74	1.16
3:D:640:LEU:C	3:D:657:GLN:CG	2.18	1.16
5:F:439:ILE:HA	6:J:6:LEU:O	1.43	1.16
5:F:414:GLN:O	5:F:418:ARG:HG3	1.45	1.15
2:C:181:ARG:HA	2:C:376:ARG:HA	1.25	1.14
2:C:96:ILE:HB	2:C:105:LEU:HB3	1.31	1.11
2:C:809:LYS:HB2	2:C:833:ARG:HB2	1.26	1.11
3:D:1249:LYS:CE	11:D:1404:C0L:N31	2.13	1.10
2:C:407:GLN:HB3	2:C:412:ILE:HG21	1.33	1.09
2:C:347:ARG:HB3	2:C:352:GLN:HG3	1.36	1.08
2:C:229:LYS:O	2:C:230:ARG:CG	2.01	1.07
2:C:1068:PHE:HB3	3:D:422:VAL:HG21	1.32	1.07
2:C:633:ARG:HD2	2:C:636:ILE:HD11	1.30	1.07
5:F:438:PHE:O	6:J:6:LEU:CG	2.04	1.06
5:F:415:GLN:HA	5:F:418:ARG:HD2	1.15	1.06
2:C:808:PRO:HA	2:C:832:VAL:HA	1.37	1.05
5:F:438:PHE:C	6:J:6:LEU:HD11	1.81	1.05
5:F:446:VAL:HG11	5:F:449:ASP:CG	1.80	1.05
3:D:641:ARG:N	3:D:657:GLN:CG	2.18	1.04
2:C:215:ASP:HB2	2:C:223:GLY:HA3	1.38	1.04
5:F:438:PHE:C	6:J:6:LEU:CD1	2.30	1.03
5:F:439:ILE:CA	6:J:6:LEU:CD1	2.36	1.03
3:D:641:ARG:CA	3:D:657:GLN:HG2	1.87	1.03
5:F:439:ILE:HA	6:J:6:LEU:CD1	1.88	1.03
5:F:318:LEU:HA	5:F:321:ILE:HD12	1.40	1.03
5:F:364:ARG:HH12	5:F:419:GLU:HG2	1.22	1.03
5:F:439:ILE:CG1	6:J:6:LEU:CD1	2.37	1.02
1:A:69:VAL:HG12	1:A:128:LEU:HG	1.40	1.02
2:C:907:LEU:HD12	2:C:911:THR:HB	1.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:413:THR:HG22	2:C:416:THR:HG23	1.38	1.01
1:A:9:LEU:HA	1:A:23:ILE:HG12	1.41	1.01
3:D:743:LYS:HA	3:D:746:LEU:HD12	1.42	1.01
5:F:440:GLU:N	6:J:6:LEU:O	1.94	1.00
1:A:49:ALA:HB2	1:A:142:ARG:HD2	1.43	1.00
3:D:641:ARG:HA	3:D:657:GLN:CD	1.85	1.00
5:F:446:VAL:HG11	5:F:449:ASP:OD2	1.61	1.00
3:D:1086:LEU:HB3	3:D:1099:LEU:HB3	1.42	1.00
2:C:1073:CYS:O	2:C:1074:TRP:C	1.98	1.00
1:B:74:THR:HA	1:B:77:ILE:HD12	1.44	0.99
1:B:105:VAL:HG23	1:B:128:LEU:HD11	1.42	0.99
3:D:443:LEU:HD12	3:D:444:PRO:HD2	1.45	0.99
2:C:204:VAL:HB	2:C:212:LEU:HD21	1.44	0.98
2:C:847:VAL:HG22	2:C:873:VAL:HG22	1.45	0.98
3:D:262:GLN:HG3	3:D:310:MET:HE1	1.41	0.98
3:D:878:VAL:HG22	3:D:1000:ALA:HB1	1.43	0.98
1:A:179:ASP:HB2	1:A:191:LYS:HB3	1.45	0.98
2:C:1051:MET:SD	5:F:441:ASP:OD1	2.21	0.97
3:D:334:ARG:HH12	5:F:419:GLU:N	1.60	0.97
3:D:1088:VAL:HA	3:D:1098:VAL:HA	1.44	0.97
3:D:640:LEU:O	3:D:657:GLN:HG3	1.64	0.97
3:D:1055:LEU:HA	3:D:1064:ILE:HG23	1.46	0.96
1:B:21:PHE:HB2	1:B:194:LEU:HB2	1.46	0.96
3:D:345:ARG:HD2	5:F:365:THR:HG23	1.48	0.96
5:F:440:GLU:O	6:J:7:ARG:HA	1.65	0.96
3:D:235:ILE:HG21	3:D:241:TYR:HB2	1.45	0.95
2:C:853:PHE:HB2	2:C:868:LEU:HB3	1.47	0.95
2:C:192:ASP:HB2	2:C:199:LEU:HD11	1.46	0.95
1:B:12:ASP:HB3	1:B:20:GLN:HB3	1.49	0.95
2:C:208:ARG:HD3	2:C:307:ASP:HB2	1.48	0.95
2:C:507:ASN:HB3	2:C:511:PHE:H	1.32	0.95
5:F:364:ARG:NH1	5:F:419:GLU:HG2	1.80	0.95
3:D:1050:THR:HG22	3:D:1106:GLU:HA	1.45	0.94
5:F:503:ILE:HA	5:F:506:ILE:HD12	1.49	0.94
5:F:442:SER:HB3	6:J:7:ARG:HD3	1.49	0.94
3:D:923:ARG:HB3	3:D:962:VAL:HG21	1.50	0.94
2:C:1042:HIS:HB2	2:C:1060:LYS:HE2	1.50	0.94
5:F:415:GLN:HA	5:F:418:ARG:HD3	0.94	0.93
1:A:7:PRO:HA	1:A:25:PRO:HD2	1.49	0.93
1:B:97:LEU:HD21	1:B:105:VAL:HG11	1.50	0.93
3:D:616:ALA:HA	3:D:619:ILE:HD12	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:439:ILE:HG12	6:J:6:LEU:HD13	1.46	0.93
1:B:49:ALA:HA	1:B:142:ARG:HA	1.50	0.93
2:C:1128:LEU:HD11	11:D:1404:C0L:C03	1.99	0.93
5:F:439:ILE:CA	6:J:6:LEU:O	2.17	0.93
2:C:558:ARG:HB3	2:C:570:TYR:HB3	1.48	0.92
2:C:435:GLN:HE21	2:C:460:PRO:HD3	1.35	0.92
1:B:202:ILE:HD11	1:B:207:ALA:HB2	1.51	0.92
3:D:442:GLY:HA3	3:D:523:GLN:HB2	1.48	0.92
5:F:499:THR:HG21	7:O:3:DT:H2'	1.51	0.92
5:F:345:THR:HA	7:O:30:DC:H41	1.34	0.92
3:D:545:LEU:HD12	3:D:546:PRO:HD2	1.50	0.91
3:D:827:PRO:HG3	3:D:854:HIS:HB3	1.48	0.91
3:D:334:ARG:NH2	5:F:419:GLU:O	2.03	0.91
5:F:439:ILE:HA	6:J:6:LEU:HD12	0.92	0.91
7:O:11:DA:H2''	7:O:12:DG:H5''	1.51	0.91
5:F:390:LEU:HD21	5:F:392:ARG:HE	1.36	0.91
2:C:1067:ARG:HB2	3:D:421:ARG:HG3	1.50	0.91
1:B:3:ILE:HB	1:B:234:ILE:HA	1.50	0.91
1:A:54:ILE:HG22	1:A:138:LEU:HA	1.53	0.91
2:C:945:LYS:HA	2:C:965:GLU:HA	1.52	0.90
3:D:443:LEU:HD21	3:D:448:ALA:HB2	1.53	0.90
3:D:1050:THR:HG23	3:D:1107:VAL:HG23	1.52	0.90
5:F:439:ILE:N	6:J:6:LEU:CD1	2.35	0.90
2:C:334:THR:HG23	2:C:337:ASP:H	1.37	0.90
2:C:455:LEU:HD11	2:C:500:LEU:HD23	1.54	0.90
3:D:797:ASN:HB3	3:D:800:ILE:HG22	1.54	0.90
3:D:886:VAL:HG12	3:D:991:ILE:HG23	1.51	0.90
2:C:482:ARG:HB3	2:C:512:ILE:HD13	1.52	0.90
4:E:47:VAL:HG21	4:E:53:LEU:HB2	1.52	0.90
3:D:930:VAL:HA	3:D:936:VAL:HA	1.53	0.89
5:F:439:ILE:CG1	6:J:6:LEU:HD13	2.01	0.89
3:D:1181:ILE:HD11	3:D:1186:PHE:HB2	1.54	0.89
2:C:994:PRO:HB3	2:C:999:ASP:H	1.38	0.89
3:D:504:LEU:HD23	3:D:1005:GLU:HA	1.51	0.89
3:D:1166:THR:HB	3:D:1206:VAL:HG11	1.53	0.89
3:D:334:ARG:HD2	5:F:418:ARG:HB3	1.55	0.88
5:F:326:LEU:HA	5:F:329:ILE:HD12	1.52	0.88
5:F:440:GLU:O	6:J:7:ARG:CA	2.20	0.88
2:C:1067:ARG:HB2	3:D:421:ARG:CB	2.02	0.88
2:C:784:LEU:HA	2:C:790:VAL:HA	1.55	0.88
3:D:17:ALA:HA	3:D:20:ILE:HD12	1.54	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:636:ARG:HA	3:D:663:MET:HA	1.55	0.88
2:C:298:ASN:HA	2:C:302:LYS:HB3	1.55	0.88
3:D:195:ARG:HD3	3:D:198:ARG:HD3	1.53	0.88
1:A:157:ALA:HB1	1:A:161:ARG:HG3	1.53	0.88
1:B:78:LEU:HA	1:B:81:LYS:HE2	1.56	0.87
2:C:802:LEU:HD12	2:C:837:LEU:HG	1.56	0.87
2:C:541:VAL:HG22	2:C:578:TYR:HB2	1.55	0.87
6:J:101:ARG:HD3	6:J:104:LEU:HD13	1.56	0.87
2:C:1068:PHE:HB3	3:D:422:VAL:CG2	2.04	0.87
3:D:1235:ASP:HA	3:D:1238:ILE:HD12	1.54	0.87
5:F:487:ARG:HD2	5:F:491:GLU:HG2	1.56	0.87
5:F:438:PHE:HB2	6:J:6:LEU:HD21	1.54	0.87
5:F:439:ILE:HG13	6:J:6:LEU:CD1	2.03	0.87
1:B:192:LEU:HD21	1:B:194:LEU:HD21	1.56	0.87
3:D:937:ILE:HD11	3:D:951:ALA:HB1	1.57	0.87
2:C:1044:ARG:HD2	2:C:1063:PHE:HB3	1.55	0.87
3:D:634:LYS:HG2	3:D:665:GLU:HB3	1.55	0.86
2:C:1051:MET:CE	5:F:441:ASP:OD1	2.17	0.86
2:C:245:SER:HB3	2:C:262:LEU:HD21	1.56	0.86
3:D:56:ARG:HG2	6:J:13:ALA:H	1.39	0.86
2:C:956:ALA:HA	2:C:959:LEU:HD12	1.56	0.86
3:D:71:LYS:HA	3:D:82:VAL:HG13	1.58	0.86
3:D:1063:LYS:HD3	3:D:1078:ASP:HA	1.56	0.86
5:F:439:ILE:N	6:J:6:LEU:HD11	1.91	0.86
3:D:820:MET:HE3	3:D:837:LYS:HA	1.56	0.86
5:F:479:PHE:HB2	5:F:481:LEU:HG	1.58	0.86
2:C:229:LYS:HZ1	2:C:281:LEU:HD12	1.41	0.85
3:D:926:GLY:HA2	3:D:940:ARG:HG3	1.58	0.85
3:D:599:TYR:HB2	3:D:633:ILE:HA	1.59	0.85
3:D:640:LEU:C	3:D:657:GLN:HG2	1.92	0.85
6:J:28:GLN:HG3	6:J:46:ASP:HA	1.57	0.85
2:C:544:ALA:HB2	2:C:580:ASP:HB2	1.58	0.85
5:F:415:GLN:O	5:F:418:ARG:HB2	1.76	0.85
2:C:229:LYS:O	2:C:230:ARG:CB	2.24	0.85
2:C:1067:ARG:HB2	3:D:421:ARG:CG	2.06	0.85
1:B:101:GLY:HA2	1:B:131:LYS:HA	1.57	0.84
3:D:280:VAL:O	3:D:284:GLY:N	2.09	0.84
3:D:821:LYS:HB3	3:D:836:VAL:HG11	1.59	0.84
5:F:415:GLN:CB	5:F:418:ARG:HD3	2.07	0.84
2:C:62:GLU:HA	2:C:65:ILE:HD12	1.59	0.84
6:J:91:ILE:HA	6:J:94:LEU:HD12	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:354:LEU:HA	3:D:357:LEU:HD12	1.56	0.84
5:F:504:ARG:NH1	8:P:22:DC:OP2	2.11	0.84
3:D:641:ARG:CA	3:D:657:GLN:CG	2.53	0.84
3:D:185:GLU:HA	3:D:194:ARG:HH11	1.43	0.83
1:A:202:ILE:HD11	1:A:207:ALA:HB2	1.60	0.83
2:C:689:ILE:HG23	2:C:703:ALA:HA	1.58	0.83
3:D:902:ALA:HA	3:D:913:ASP:H	1.43	0.83
5:F:266:LEU:HD22	5:F:273:LEU:HD12	1.61	0.83
2:C:517:ARG:HG3	2:C:581:VAL:HA	1.59	0.83
2:C:946:VAL:N	2:C:964:LEU:O	2.11	0.83
3:D:965:VAL:HG11	3:D:1156:VAL:HG22	1.58	0.83
2:C:547:PRO:HB2	2:C:555:VAL:HB	1.61	0.83
3:D:420:LYS:HZ2	11:D:1404:C0L:C17	1.91	0.82
7:O:2:DC:H2'	7:O:3:DT:H71	1.61	0.82
1:A:128:LEU:HB3	1:A:132:GLY:HA3	1.61	0.82
2:C:801:ILE:HD13	2:C:838:LYS:HG2	1.61	0.82
5:F:223:ALA:O	5:F:224:SER:O	1.98	0.82
2:C:38:ARG:HD3	2:C:973:SER:HB3	1.62	0.82
5:F:348:THR:HA	5:F:351:ILE:HD12	1.59	0.82
3:D:612:TYR:HB2	3:D:635:VAL:HG12	1.59	0.82
1:B:106:THR:HG22	1:B:124:HIS:HA	1.61	0.82
5:F:364:ARG:HH12	5:F:419:GLU:CG	1.92	0.82
1:B:40:ARG:HH12	3:D:623:ASP:HB3	1.42	0.82
7:O:19:DA:H1'	7:O:20:DT:H5'	1.60	0.82
2:C:789:ILE:HG22	2:C:803:VAL:HG22	1.62	0.82
3:D:641:ARG:HA	3:D:657:GLN:CG	2.10	0.82
3:D:1033:GLU:HA	3:D:1036:GLU:HB2	1.59	0.82
3:D:139:VAL:HA	3:D:252:PHE:HA	1.59	0.81
1:B:100:GLN:HA	1:B:133:LYS:HA	1.61	0.81
2:C:222:VAL:HG21	2:C:234:VAL:H	1.45	0.81
3:D:1052:ARG:HA	3:D:1104:HIS:HA	1.62	0.81
1:B:95:MET:HE1	1:B:140:VAL:HG23	1.59	0.81
2:C:1058:GLY:HA2	2:C:1064:GLY:HA2	1.63	0.81
2:C:1124:LEU:HD21	11:D:1404:C0L:C06	2.09	0.81
3:D:71:LYS:O	6:J:27:ARG:NH1	2.13	0.81
2:C:1067:ARG:CB	3:D:421:ARG:HA	2.11	0.81
5:F:229:ARG:HA	5:F:232:LEU:HD12	1.62	0.81
2:C:192:ASP:O	2:C:196:ASP:N	2.13	0.81
3:D:1044:ALA:HB3	3:D:1110:GLN:HE21	1.44	0.81
4:E:38:PRO:HG2	4:E:43:LEU:HD11	1.62	0.81
1:B:182:ARG:HG3	1:B:186:ARG:H	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:84:ARG:HD3	3:D:86:LYS:HE3	1.61	0.80
3:D:928:ASP:OD1	3:D:940:ARG:N	2.14	0.80
3:D:189:ALA:HB3	3:D:194:ARG:HD3	1.63	0.80
5:F:476:ARG:HA	5:F:481:LEU:HB2	1.63	0.80
2:C:720:LEU:N	2:C:914:ASP:OD2	2.14	0.80
3:D:420:LYS:NZ	11:D:1404:C0L:C17	2.45	0.80
2:C:297:GLU:O	2:C:302:LYS:N	2.14	0.80
1:B:107:ALA:HB2	1:B:123:MET:HB3	1.63	0.80
3:D:1251:ASN:HD22	3:D:1259:PRO:HD3	1.47	0.80
2:C:225:ARG:HG3	2:C:230:ARG:H	1.47	0.80
2:C:767:GLU:HB3	2:C:805:LYS:HE3	1.64	0.80
5:F:478:ARG:HH22	8:P:20:DG:H5"	1.47	0.80
3:D:286:GLY:O	3:D:290:LEU:N	2.15	0.80
3:D:426:GLY:HA3	3:D:447:MET:HE3	1.63	0.80
2:C:1137:VAL:HG21	3:D:7:PHE:HD1	1.47	0.80
3:D:1045:PRO:O	3:D:1111:LEU:N	2.15	0.79
3:D:739:PRO:HG2	3:D:742:LYS:HB2	1.63	0.79
5:F:502:ARG:NH1	5:F:505:GLN:OE1	2.14	0.79
1:B:52:THR:HB	1:B:139:VAL:HG12	1.64	0.79
3:D:432:VAL:HG13	3:D:434:PRO:HD3	1.62	0.79
3:D:428:SER:HB3	3:D:522:ILE:HD11	1.65	0.79
3:D:1208:MET:HG3	3:D:1213:ALA:HB2	1.63	0.79
4:E:82:LEU:N	4:E:98:GLU:OE2	2.15	0.79
2:C:1088:LEU:HD23	2:C:1092:LYS:HD2	1.64	0.79
3:D:353:ARG:NE	5:F:323:GLU:OE2	2.16	0.79
6:J:90:SER:HB3	6:J:93:GLU:HG3	1.65	0.79
2:C:1050:SER:H	2:C:1055:GLN:H	1.30	0.79
6:J:108:ARG:HD2	6:J:109:ARG:H	1.48	0.79
1:A:43:LEU:HD23	2:C:902:GLU:HB3	1.65	0.79
2:C:103:MET:HA	2:C:142:ASN:H	1.47	0.79
2:C:654:SER:HG	2:C:657:TYR:H	1.31	0.79
3:D:945:GLY:N	3:D:948:GLU:OE2	2.15	0.79
5:F:439:ILE:HG12	6:J:6:LEU:CD1	2.07	0.79
6:J:52:GLY:HA2	6:J:64:LEU:HB2	1.64	0.79
1:A:12:ASP:HB3	1:A:20:GLN:HB2	1.64	0.79
5:F:390:LEU:HG	5:F:392:ARG:HG2	1.64	0.79
2:C:644:ALA:N	2:C:700:GLN:O	2.12	0.79
3:D:151:LEU:HD22	3:D:248:TYR:HE1	1.48	0.79
3:D:929:ALA:N	3:D:938:VAL:O	2.15	0.79
1:A:147:VAL:HG12	1:A:166:SER:HB2	1.64	0.78
1:B:179:ASP:HB2	1:B:191:LYS:HB3	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1254:ILE:HG13	3:D:1256:LYS:H	1.48	0.78
5:F:447:ALA:O	5:F:448:VAL:C	2.18	0.78
1:B:84:VAL:HG13	1:B:119:HIS:HB2	1.64	0.78
3:D:567:SER:N	3:D:572:ARG:O	2.15	0.78
5:F:487:ARG:HB3	5:F:491:GLU:HB2	1.64	0.78
1:B:7:PRO:HA	1:B:25:PRO:HD2	1.64	0.78
2:C:131:ALA:O	2:C:157:PHE:N	2.15	0.78
2:C:774:PRO:HG2	2:C:834:ASP:HB2	1.66	0.78
2:C:222:VAL:HG13	2:C:261:THR:HG21	1.66	0.78
2:C:463:LEU:HD13	2:C:468:ALA:HB2	1.64	0.78
1:A:209:ALA:HB2	1:B:225:LEU:HB2	1.65	0.78
5:F:344:SER:OG	7:O:30:DC:OP2	2.02	0.78
6:J:28:GLN:N	6:J:44:PHE:O	2.16	0.78
1:B:79:ASN:HB3	1:B:125:ILE:HG13	1.65	0.78
3:D:481:PRO:HA	3:D:484:TRP:HD1	1.49	0.78
5:F:415:GLN:CA	5:F:418:ARG:HD2	1.84	0.78
2:C:767:GLU:HA	2:C:807:THR:HG22	1.65	0.77
1:A:105:VAL:N	1:A:126:ALA:O	2.17	0.77
1:A:106:THR:N	1:A:109:ASP:OD2	2.17	0.77
3:D:1089:PHE:O	3:D:1097:ARG:N	2.17	0.77
5:F:438:PHE:O	6:J:6:LEU:CD1	2.29	0.77
3:D:599:TYR:OH	3:D:608:GLU:OE1	2.03	0.77
2:C:403:ARG:NH1	2:C:416:THR:O	2.18	0.77
3:D:902:ALA:HB1	3:D:912:ARG:HA	1.67	0.77
2:C:1051:MET:O	6:J:10:ARG:NH2	2.17	0.77
2:C:1071:MET:HE1	3:D:502:PRO:HA	1.67	0.77
3:D:815:ARG:NH1	3:D:820:MET:O	2.18	0.77
2:C:107:PHE:HA	2:C:137:ALA:HA	1.66	0.77
5:F:500:ARG:NH1	8:P:21:DT:O4	2.17	0.77
1:A:107:ALA:HB2	1:A:123:MET:HB3	1.67	0.77
3:D:1062:TYR:HB2	3:D:1080:ILE:HB	1.66	0.77
3:D:891:CYS:HB2	3:D:969:ALA:HB3	1.66	0.76
3:D:893:THR:HB	3:D:969:ALA:HB2	1.65	0.76
2:C:233:PRO:HG2	2:C:236:VAL:HG23	1.67	0.76
3:D:500:ARG:HB2	3:D:541:MET:HG2	1.67	0.76
2:C:540:VAL:HG23	2:C:561:VAL:HG21	1.67	0.76
2:C:549:ASP:HB3	2:C:553:ARG:HB2	1.65	0.76
3:D:826:ASN:N	3:D:830:GLU:O	2.18	0.76
3:D:1047:ALA:N	3:D:1109:GLN:O	2.17	0.76
5:F:249:LEU:HD22	5:F:291:ALA:HB1	1.66	0.76
5:F:258:TYR:HB2	6:J:94:LEU:HD22	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:336:ASP:OD1	6:J:89:ARG:NH2	2.18	0.76
3:D:261:ILE:HA	3:D:264:LEU:HD12	1.66	0.76
5:F:463:VAL:O	5:F:466:THR:OG1	2.03	0.76
6:J:31:ARG:HG2	6:J:41:GLU:HG2	1.68	0.76
2:C:975:PRO:HB2	2:C:978:ASP:HB3	1.67	0.76
2:C:1124:LEU:HD23	11:D:1404:C0L:C02	2.16	0.76
1:B:106:THR:N	1:B:109:ASP:OD2	2.16	0.76
3:D:993:GLU:OE2	4:E:51:TYR:OH	2.03	0.76
3:D:342:ASP:OD1	5:F:365:THR:OG1	2.02	0.76
3:D:1190:ASN:HA	3:D:1193:VAL:HG12	1.67	0.76
3:D:1212:LYS:HA	3:D:1215:LEU:HD12	1.68	0.76
5:F:238:VAL:O	5:F:301:ARG:NH2	2.19	0.76
5:F:264:THR:HA	5:F:267:SER:HB3	1.68	0.76
1:A:144:ARG:HD2	1:B:1:MET:HE2	1.68	0.76
3:D:885:ILE:HG22	3:D:994:ALA:HB2	1.68	0.76
1:B:1:MET:O	1:B:233:GLU:N	2.19	0.76
3:D:336:ALA:HB1	5:F:423:LEU:HD11	1.66	0.76
1:B:1:MET:HB2	1:B:232:ILE:HA	1.68	0.75
3:D:33:THR:HB	3:D:327:MET:HE1	1.68	0.75
2:C:253:GLY:O	2:C:259:ARG:NH1	2.19	0.75
3:D:637:LEU:N	3:D:662:TRP:O	2.18	0.75
3:D:431:VAL:O	3:D:524:LEU:N	2.18	0.75
1:B:104:GLU:HG2	1:B:127:THR:HG22	1.69	0.75
1:B:105:VAL:N	1:B:126:ALA:O	2.19	0.75
1:B:183:VAL:HA	1:B:188:ASP:HA	1.68	0.75
2:C:652:GLU:O	2:C:659:THR:N	2.19	0.75
5:F:330:ARG:NH2	7:O:25:DC:OP2	2.19	0.75
2:C:62:GLU:O	2:C:66:GLY:N	2.20	0.75
2:C:231:ARG:HD2	5:F:211:ALA:HB2	1.67	0.75
1:A:40:ARG:HE	1:B:33:THR:HG22	1.52	0.75
1:B:107:ALA:N	1:B:123:MET:O	2.18	0.75
2:C:549:ASP:N	2:C:553:ARG:O	2.14	0.75
5:F:461:GLN:OE1	5:F:476:ARG:NH2	2.20	0.75
1:A:149:ALA:N	1:A:165:ASP:OD1	2.19	0.75
2:C:518:LYS:HA	2:C:578:TYR:HA	1.67	0.75
2:C:1054:GLN:O	2:C:1055:GLN:CG	2.34	0.75
1:B:98:ARG:HG2	1:B:135:GLU:HA	1.67	0.75
2:C:179:LEU:HD23	2:C:378:LEU:HD13	1.69	0.75
2:C:317:ASN:O	2:C:321:GLY:N	2.19	0.75
5:F:296:LEU:HD21	5:F:332:VAL:HG11	1.69	0.75
5:F:384:ARG:O	5:F:388:GLN:NE2	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:106:ARG:O	6:J:111:GLY:N	2.20	0.75
1:B:172:LEU:HD13	1:B:199:LYS:H	1.52	0.75
2:C:235:THR:HG21	2:C:265:ASP:HB3	1.68	0.75
2:C:514:THR:O	2:C:531:LEU:N	2.14	0.75
2:C:676:ALA:HB3	2:C:684:ALA:HB3	1.68	0.75
3:D:60:CYS:SG	3:D:64:LYS:N	2.60	0.75
7:O:22:DG:H1'	7:O:23:DT:H5'	1.68	0.75
2:C:102:SER:O	2:C:141:ASN:ND2	2.20	0.74
2:C:1072:GLU:OE2	3:D:503:THR:OG1	2.02	0.74
2:C:641:VAL:HG22	2:C:705:GLY:H	1.50	0.74
2:C:649:VAL:HA	2:C:695:ARG:HA	1.69	0.74
3:D:1051:GLY:O	3:D:1105:VAL:N	2.17	0.74
6:J:81:HIS:HA	6:J:84:MET:HE2	1.69	0.74
3:D:930:VAL:HG12	3:D:936:VAL:HG22	1.68	0.74
1:A:119:HIS:O	1:A:200:ASN:ND2	2.20	0.74
2:C:182:SER:O	2:C:186:TYR:OH	2.06	0.74
3:D:1066:ILE:HD12	3:D:1075:VAL:HB	1.68	0.74
5:F:331:ALA:HB2	5:F:350:TRP:HB2	1.67	0.74
1:B:169:SER:HB3	1:B:171:VAL:HG22	1.69	0.74
2:C:822:ARG:NH1	2:C:828:LYS:O	2.21	0.74
2:C:1044:ARG:NH1	2:C:1057:LEU:O	2.20	0.74
2:C:150:GLN:NE2	2:C:413:THR:OG1	2.20	0.74
3:D:557:ILE:O	3:D:563:ASN:ND2	2.20	0.74
2:C:174:VAL:HG23	2:C:440:MET:HB2	1.68	0.74
3:D:101:VAL:O	3:D:314:LEU:N	2.16	0.74
2:C:278:TYR:CE1	2:C:282:ARG:HD2	2.23	0.74
2:C:853:PHE:N	2:C:868:LEU:O	2.17	0.74
3:D:850:PHE:O	3:D:853:THR:OG1	2.05	0.74
2:C:902:GLU:OE1	2:C:902:GLU:N	2.20	0.74
3:D:1249:LYS:HD3	11:D:1404:C0L:C35	2.18	0.74
3:D:1269:ASN:HB2	4:E:109:GLY:HA3	1.69	0.74
3:D:265:ILE:HG21	3:D:310:MET:HA	1.68	0.73
5:F:318:LEU:HD23	5:F:321:ILE:HD12	1.70	0.73
5:F:310:TYR:O	5:F:313:ARG:NE	2.21	0.73
1:B:45:SER:O	1:B:144:ARG:NH1	2.21	0.73
2:C:563:ARG:N	2:C:567:GLU:O	2.21	0.73
3:D:1062:TYR:N	3:D:1080:ILE:O	2.18	0.73
2:C:592:ALA:HB1	2:C:630:MET:HG3	1.70	0.73
3:D:468:ASN:O	3:D:471:SER:OG	2.06	0.73
3:D:636:ARG:HB2	3:D:663:MET:HG2	1.69	0.73
3:D:768:ASP:HA	3:D:771:ASN:HD22	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:181:THR:HG21	1:B:191:LYS:HD3	1.70	0.73
2:C:941:HIS:ND1	2:C:969:ASN:OD1	2.21	0.73
3:D:431:VAL:HG23	3:D:523:GLN:HA	1.70	0.73
3:D:1157:ILE:HG22	3:D:1161:MET:HE3	1.68	0.73
2:C:237:LEU:O	2:C:241:LEU:N	2.21	0.73
2:C:168:ILE:O	2:C:171:THR:OG1	2.04	0.73
5:F:241:LEU:HB3	5:F:245:GLU:HG3	1.69	0.73
2:C:413:THR:O	2:C:416:THR:OG1	2.05	0.73
2:C:986:GLN:HG2	3:D:733:MET:HE1	1.70	0.73
3:D:1270:ILE:O	4:E:59:LYS:NZ	2.20	0.73
3:D:498:LEU:H	3:D:509:ILE:HG23	1.54	0.73
3:D:756:VAL:HG21	3:D:777:ILE:HD11	1.70	0.73
2:C:38:ARG:NH1	2:C:625:LEU:O	2.22	0.73
3:D:1124:VAL:HG12	3:D:1125:GLN:HG3	1.70	0.73
3:D:1167:ILE:O	3:D:1178:GLY:N	2.19	0.73
5:F:299:ASN:HA	7:O:31:DT:H3	1.54	0.73
2:C:96:ILE:N	2:C:105:LEU:O	2.19	0.72
2:C:133:LEU:HD11	2:C:157:PHE:HB2	1.69	0.72
2:C:403:ARG:HD2	2:C:417:LEU:HA	1.71	0.72
3:D:1164:ARG:NH2	3:D:1216:ALA:O	2.22	0.72
3:D:56:ARG:NE	3:D:59:GLU:OE1	2.23	0.72
3:D:607:PRO:HG2	3:D:609:THR:HG22	1.72	0.72
3:D:798:PRO:HA	3:D:801:THR:HB	1.71	0.72
4:E:42:GLU:OE1	4:E:100:HIS:NE2	2.21	0.72
2:C:48:LEU:HB2	2:C:528:ILE:HD11	1.71	0.72
3:D:639:GLN:HA	3:D:657:GLN:O	1.88	0.72
1:A:14:LEU:HD11	1:A:20:GLN:HG3	1.71	0.72
1:A:26:LEU:HB2	1:A:190:ASP:HB2	1.71	0.72
1:B:146:TYR:O	3:D:624:ARG:NH2	2.18	0.72
2:C:106:SER:N	2:C:138:GLU:O	2.19	0.72
2:C:807:THR:O	2:C:833:ARG:N	2.23	0.72
3:D:354:LEU:HB2	3:D:370:GLU:HG2	1.71	0.72
6:J:54:TRP:N	6:J:61:GLU:OE2	2.22	0.72
2:C:618:LEU:HD22	2:C:748:THR:H	1.55	0.72
1:A:62:GLU:HA	1:A:73:VAL:HG11	1.71	0.72
1:B:103:GLY:O	1:B:128:LEU:N	2.19	0.72
2:C:608:GLY:HA2	2:C:611:MET:HE3	1.71	0.72
2:C:633:ARG:HA	2:C:636:ILE:HG12	1.71	0.72
3:D:211:ARG:HD3	3:D:214:ARG:HH22	1.53	0.72
3:D:334:ARG:NH1	5:F:418:ARG:O	2.21	0.72
3:D:722:TYR:O	3:D:725:THR:OG1	2.07	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:105:VAL:O	1:A:125:ILE:N	2.21	0.72
2:C:98:ASP:OD2	2:C:102:SER:OG	2.03	0.72
3:D:931:ASP:N	3:D:935:ASN:O	2.22	0.72
1:A:192:LEU:HD21	1:A:194:LEU:HD12	1.70	0.72
2:C:658:ILE:HD11	2:C:688:PRO:HB3	1.69	0.72
3:D:524:LEU:HD11	3:D:528:VAL:HG21	1.70	0.72
5:F:415:GLN:CA	5:F:418:ARG:HG3	2.19	0.72
3:D:406:LEU:HB2	3:D:409:LYS:HB2	1.72	0.72
3:D:93:GLY:O	3:D:319:VAL:N	2.22	0.72
4:E:96:LEU:HA	4:E:99:ILE:HD12	1.71	0.72
1:A:172:LEU:HD23	1:A:199:LYS:HB3	1.72	0.71
3:D:36:TYR:OH	7:O:21:DT:OP1	2.07	0.71
3:D:50:LYS:HA	3:D:80:VAL:HG22	1.70	0.71
2:C:768:GLU:O	2:C:806:VAL:N	2.23	0.71
3:D:108:LYS:HG2	3:D:386:ARG:HG3	1.72	0.71
3:D:555:ALA:HA	3:D:559:MET:HE3	1.72	0.71
3:D:590:THR:HG23	3:D:630:ARG:HD2	1.71	0.71
1:A:13:VAL:HA	1:A:19:SER:HB2	1.72	0.71
1:A:107:ALA:HB3	1:A:121:PRO:HA	1.72	0.71
1:B:149:ALA:N	1:B:165:ASP:OD1	2.22	0.71
2:C:559:VAL:O	2:C:571:VAL:N	2.23	0.71
3:D:101:VAL:N	3:D:314:LEU:O	2.22	0.71
3:D:1065:THR:HG22	3:D:1074:GLU:HB3	1.72	0.71
2:C:705:GLY:N	2:C:708:THR:OG1	2.23	0.71
2:C:735:ILE:O	2:C:896:GLY:N	2.19	0.71
3:D:1090:LYS:HD2	3:D:1097:ARG:NE	2.06	0.71
1:A:172:LEU:HB2	1:A:199:LYS:HB3	1.70	0.71
3:D:670:ARG:NH1	3:D:685:ASN:OD1	2.21	0.71
3:D:1142:TYR:HB3	3:D:1147:VAL:HB	1.71	0.71
2:C:38:ARG:NH1	2:C:972:VAL:O	2.22	0.71
2:C:403:ARG:HB2	2:C:407:GLN:HE21	1.56	0.71
3:D:64:LYS:HD3	3:D:77:ARG:HH21	1.55	0.71
3:D:613:SER:N	3:D:617:GLU:OE1	2.24	0.71
2:C:761:ASP:OD2	2:C:866:ASN:ND2	2.24	0.71
1:B:75:GLU:HA	1:B:78:LEU:HD21	1.73	0.71
2:C:104:SER:N	2:C:140:ILE:O	2.21	0.71
2:C:343:GLU:HG2	2:C:355:MET:HE2	1.71	0.71
3:D:412:ARG:HA	3:D:1227:GLN:HE21	1.56	0.71
1:B:12:ASP:N	1:B:20:GLN:O	2.23	0.71
2:C:1072:GLU:HA	2:C:1075:ALA:HB3	1.72	0.71
3:D:445:LYS:HA	3:D:516:LEU:HD22	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:46:ILE:HG22	1:A:170:PRO:HG2	1.71	0.71
2:C:889:HIS:NE2	2:C:933:GLU:OE1	2.21	0.70
3:D:1166:THR:HA	3:D:1180:LEU:HD23	1.71	0.70
1:A:10:SER:OG	1:A:22:VAL:O	2.07	0.70
2:C:780:VAL:HG23	2:C:781:LEU:HD12	1.72	0.70
2:C:1077:GLN:NE2	11:D:1404:C0L:O33	2.22	0.70
1:A:105:VAL:HG12	1:A:125:ILE:HD12	1.73	0.70
5:F:273:LEU:HD22	5:F:278:ARG:HB2	1.73	0.70
2:C:384:LEU:HA	2:C:387:ASN:HD22	1.55	0.70
2:C:435:GLN:O	2:C:438:GLN:NE2	2.21	0.70
2:C:563:ARG:HB3	2:C:567:GLU:H	1.56	0.70
6:J:90:SER:OG	6:J:92:GLU:OE1	2.08	0.70
2:C:1083:TYR:N	3:D:554:GLU:OE2	2.24	0.70
3:D:71:LYS:HD3	6:J:24:LEU:HD11	1.72	0.70
3:D:948:GLU:O	3:D:952:LEU:HG	1.91	0.70
3:D:1220:TRP:NE1	3:D:1243:ASP:HB2	2.06	0.70
6:J:28:GLN:NE2	6:J:46:ASP:O	2.25	0.70
3:D:222:ILE:HG13	3:D:244:LEU:HD12	1.73	0.70
2:C:174:VAL:N	2:C:438:GLN:O	2.22	0.70
2:C:1067:ARG:HB2	3:D:421:ARG:HA	1.71	0.70
3:D:134:TYR:O	3:D:235:ILE:N	2.24	0.70
3:D:1167:ILE:HG22	3:D:1177:PRO:HA	1.72	0.70
2:C:207:SER:OG	2:C:307:ASP:O	2.10	0.70
2:C:225:ARG:HE	2:C:230:ARG:HA	1.56	0.70
3:D:400:LYS:HG3	3:D:404:ASP:HB2	1.73	0.70
5:F:503:ILE:HD13	5:F:506:ILE:HD12	1.74	0.70
1:B:62:GLU:OE2	1:B:65:THR:OG1	2.08	0.70
2:C:802:LEU:N	2:C:837:LEU:O	2.17	0.70
3:D:566:LEU:HA	3:D:573:PRO:HA	1.73	0.70
2:C:715:LEU:N	2:C:1029:TYR:OH	2.25	0.69
3:D:579:LEU:O	3:D:583:THR:OG1	2.09	0.69
2:C:532:THR:N	2:C:535:GLU:OE2	2.21	0.69
2:C:644:ALA:O	2:C:699:GLY:N	2.25	0.69
3:D:391:VAL:H	3:D:399:LEU:HD12	1.57	0.69
3:D:505:HIS:CE1	3:D:507:LEU:HB2	2.28	0.69
3:D:1045:PRO:HB2	3:D:1111:LEU:HB2	1.74	0.69
5:F:438:PHE:CB	6:J:6:LEU:HD21	2.22	0.69
6:J:20:ARG:NH1	6:J:23:ASP:O	2.25	0.69
1:A:48:GLY:N	1:A:143:GLY:O	2.25	0.69
1:A:105:VAL:HB	1:A:126:ALA:H	1.56	0.69
2:C:1032:LYS:HE2	2:C:1036:LEU:HD21	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:315:MET:HE3	5:F:362:GLN:HB2	1.75	0.69
2:C:356:THR:OG1	2:C:360:GLY:O	2.10	0.69
2:C:493:ASN:HA	2:C:496:LEU:HD12	1.72	0.69
2:C:315:LYS:NZ	2:C:375:ASN:OD1	2.25	0.69
2:C:1067:ARG:HB2	3:D:421:ARG:CA	2.22	0.69
2:C:1128:LEU:CD1	11:D:1404:C0L:C03	2.69	0.69
3:D:420:LYS:NZ	11:D:1404:C0L:C23	2.55	0.69
3:D:825:THR:OG1	3:D:830:GLU:O	2.06	0.69
3:D:1045:PRO:HB2	3:D:1111:LEU:HD22	1.74	0.69
1:B:26:LEU:HB2	1:B:190:ASP:HB2	1.75	0.69
3:D:18:GLU:O	3:D:22:GLN:N	2.24	0.69
3:D:177:LEU:HD11	3:D:198:ARG:HA	1.74	0.69
1:B:134:LEU:HD11	1:B:136:VAL:HG23	1.74	0.69
2:C:1049:TYR:HA	2:C:1056:PRO:HA	1.75	0.69
2:C:1073:CYS:C	2:C:1075:ALA:N	2.48	0.69
3:D:445:LYS:NZ	3:D:518:GLU:OE2	2.23	0.69
5:F:317:PHE:CE2	5:F:321:ILE:HD11	2.28	0.69
5:F:414:GLN:C	5:F:418:ARG:HG3	2.17	0.69
1:A:48:GLY:O	1:A:143:GLY:N	2.21	0.69
1:B:52:THR:N	1:B:139:VAL:O	2.17	0.69
2:C:128:THR:HB	2:C:169:ASN:H	1.58	0.69
2:C:181:ARG:CA	2:C:376:ARG:HA	2.16	0.69
2:C:182:SER:N	2:C:375:ASN:O	2.25	0.69
2:C:507:ASN:HD22	2:C:511:PHE:HB2	1.58	0.69
2:C:802:LEU:HD21	2:C:839:VAL:HB	1.73	0.69
2:C:803:VAL:O	2:C:836:SER:OG	2.11	0.69
3:D:339:ASP:OD2	3:D:400:LYS:HB3	1.91	0.69
5:F:446:VAL:O	5:F:448:VAL:N	2.24	0.69
2:C:140:ILE:HG23	2:C:146:GLU:H	1.56	0.69
3:D:22:GLN:O	6:J:57:ARG:NH2	2.18	0.69
3:D:1208:MET:HE3	3:D:1213:ALA:HB1	1.74	0.69
2:C:1119:GLU:OE2	3:D:89:ARG:NH1	2.26	0.69
3:D:406:LEU:HB2	3:D:409:LYS:HD3	1.74	0.69
3:D:433:GLY:N	3:D:524:LEU:O	2.25	0.69
3:D:1068:PRO:HD3	3:D:1074:GLU:HA	1.75	0.69
1:A:73:VAL:O	1:A:77:ILE:HG12	1.94	0.68
2:C:663:ASP:OD1	2:C:695:ARG:NH1	2.22	0.68
3:D:36:TYR:CE2	3:D:37:ARG:HB2	2.28	0.68
3:D:1052:ARG:HG3	3:D:1067:VAL:HG21	1.74	0.68
7:O:14:DG:H2"	7:O:15:DT:H71	1.75	0.68
1:A:95:MET:HG3	1:A:138:LEU:HD13	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1111:ASN:HB3	4:E:62:ARG:NH2	2.08	0.68
5:F:322:GLN:HA	5:F:325:ASN:HD22	1.55	0.68
2:C:108:SER:O	2:C:136:THR:N	2.27	0.68
2:C:738:SER:HB2	2:C:904:MET:HE3	1.75	0.68
2:C:987:GLY:O	2:C:990:SER:OG	2.09	0.68
3:D:147:GLU:O	3:D:151:LEU:HG	1.93	0.68
3:D:1049:VAL:HA	3:D:1107:VAL:HG13	1.75	0.68
3:D:1066:ILE:HB	3:D:1075:VAL:HB	1.74	0.68
2:C:473:ARG:NH1	2:C:494:ILE:O	2.20	0.68
3:D:144:ARG:O	3:D:148:LEU:HB2	1.93	0.68
2:C:133:LEU:O	2:C:154:MET:N	2.23	0.68
2:C:256:GLU:O	2:C:259:ARG:HG2	1.94	0.68
2:C:883:ASP:HB2	2:C:895:ILE:HD12	1.73	0.68
2:C:1043:ALA:HA	3:D:426:GLY:HA2	1.76	0.68
3:D:641:ARG:HB3	3:D:682:PRO:HA	1.76	0.68
3:D:1153:HIS:O	3:D:1157:ILE:HG12	1.94	0.68
5:F:342:LYS:N	7:O:29:DA:OP2	2.17	0.68
1:A:61:HIS:HA	1:A:162:ILE:HD11	1.76	0.68
2:C:651:GLU:OE2	2:C:667:ARG:NH1	2.27	0.68
5:F:500:ARG:NH2	8:P:20:DG:N7	2.42	0.68
1:A:36:ASN:HB2	2:C:1016:GLY:HA2	1.75	0.68
2:C:313:ARG:HD3	2:C:331:SER:HA	1.74	0.68
2:C:380:THR:HG23	2:C:383:GLU:H	1.58	0.68
3:D:111:PRO:O	3:D:113:ARG:NH1	2.25	0.68
3:D:384:ASN:HD21	3:D:391:VAL:HG23	1.58	0.68
3:D:898:VAL:HA	3:D:960:VAL:O	1.94	0.68
5:F:256:GLY:HA2	5:F:284:ILE:HG22	1.76	0.68
1:B:51:VAL:HA	1:B:140:VAL:HG22	1.76	0.68
3:D:64:LYS:HB2	3:D:77:ARG:NH2	2.08	0.68
3:D:849:TYR:O	3:D:853:THR:HG23	1.94	0.68
5:F:352:ARG:HA	5:F:355:ILE:HD12	1.75	0.68
2:C:1050:SER:O	5:F:441:ASP:HB2	1.93	0.68
3:D:95:ILE:O	3:D:317:VAL:N	2.24	0.68
3:D:95:ILE:N	3:D:317:VAL:O	2.27	0.68
3:D:277:LEU:HD11	3:D:295:ARG:HH12	1.58	0.68
1:B:104:GLU:HA	1:B:127:THR:HA	1.75	0.68
2:C:1011:PHE:HE1	2:C:1018:PRO:HB3	1.58	0.68
3:D:35:ASN:HB3	3:D:38:THR:HG22	1.76	0.68
2:C:648:GLY:HA2	2:C:663:ASP:OD1	1.93	0.67
2:C:1095:ASP:O	2:C:1099:ARG:HG3	1.94	0.67
3:D:367:VAL:HG12	3:D:371:LYS:HE3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:33:LEU:O	4:E:36:THR:HG22	1.94	0.67
2:C:403:ARG:HA	2:C:406:THR:OG1	1.94	0.67
2:C:756:GLU:HB2	2:C:870:ARG:HG2	1.75	0.67
2:C:1068:PHE:CB	3:D:422:VAL:HG21	2.20	0.67
2:C:674:LYS:HZ2	2:C:686:GLN:H	1.42	0.67
2:C:725:PRO:HA	2:C:730:ASN:HD21	1.57	0.67
2:C:769:ILE:HA	2:C:805:LYS:HA	1.75	0.67
2:C:827:GLU:OE2	5:F:524:ARG:NH2	2.27	0.67
2:C:1124:LEU:HD21	11:D:1404:C0L:C05	2.24	0.67
2:C:661:MET:HA	2:C:667:ARG:HG2	1.76	0.67
3:D:49:GLU:HG2	3:D:88:ARG:NH1	2.10	0.67
3:D:826:ASN:HD21	3:D:828:LYS:HD2	1.58	0.67
4:E:70:GLN:HE22	4:E:76:LEU:HB2	1.59	0.67
5:F:261:GLN:O	5:F:265:GLU:HG2	1.95	0.67
1:A:15:THR:OG1	1:A:17:ASN:OD1	2.11	0.67
3:D:144:ARG:NH1	3:D:226:PHE:O	2.25	0.67
3:D:939:GLU:OE1	3:D:942:GLN:NE2	2.27	0.67
2:C:557:PRO:O	2:C:573:SER:N	2.28	0.67
3:D:925:LEU:HG	3:D:944:LEU:HD11	1.77	0.67
5:F:439:ILE:N	6:J:6:LEU:HD12	2.01	0.67
5:F:439:ILE:CB	6:J:6:LEU:HD12	2.25	0.67
1:A:169:SER:O	1:A:199:LYS:HD3	1.94	0.67
2:C:395:ARG:HA	2:C:398:ARG:HE	1.60	0.67
2:C:672:MET:HE3	2:C:688:PRO:HB3	1.77	0.67
2:C:724:MET:O	2:C:730:ASN:ND2	2.28	0.67
2:C:192:ASP:OD1	2:C:194:SER:OG	2.12	0.67
2:C:956:ALA:HA	2:C:959:LEU:CD1	2.25	0.67
2:C:1072:GLU:OE2	3:D:499:ASN:ND2	2.24	0.67
5:F:242:ASN:OD1	5:F:245:GLU:HG2	1.95	0.67
1:A:223:ARG:HD3	1:B:216:VAL:HG11	1.77	0.66
2:C:604:ARG:NH1	2:C:607:MET:SD	2.68	0.66
2:C:1094:ASP:HB3	2:C:1119:GLU:H	1.60	0.66
3:D:737:LEU:O	3:D:793:TYR:OH	2.13	0.66
6:J:32:TYR:CD1	6:J:64:LEU:HA	2.29	0.66
1:B:88:GLU:N	1:B:89:GLU:OE1	2.28	0.66
2:C:123:LYS:HA	2:C:170:GLY:HA2	1.76	0.66
2:C:140:ILE:HG12	2:C:147:ILE:HA	1.77	0.66
2:C:207:SER:H	2:C:308:LEU:HA	1.58	0.66
2:C:259:ARG:O	2:C:263:GLU:HG2	1.95	0.66
2:C:768:GLU:HB3	2:C:806:VAL:HG13	1.77	0.66
2:C:944:TRP:HB2	2:C:991:CYS:SG	2.35	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:742:LYS:HG2	3:D:746:LEU:HD11	1.76	0.66
3:D:905:ALA:N	3:D:909:THR:O	2.27	0.66
1:A:7:PRO:HB3	1:A:25:PRO:O	1.94	0.66
2:C:347:ARG:HA	2:C:350:GLU:HB3	1.78	0.66
2:C:677:ARG:NE	2:C:752:ILE:O	2.28	0.66
2:C:1067:ARG:CB	3:D:421:ARG:HG3	2.22	0.66
3:D:222:ILE:HB	3:D:240:LEU:HD11	1.77	0.66
5:F:252:ARG:CZ	5:F:291:ALA:HB2	2.24	0.66
5:F:296:LEU:O	5:F:300:LEU:HG	1.95	0.66
2:C:243:TRP:HA	2:C:247:GLN:OE1	1.95	0.66
2:C:558:ARG:NE	2:C:570:TYR:O	2.27	0.66
2:C:656:ASP:O	2:C:672:MET:N	2.26	0.66
2:C:1136:GLU:OE2	3:D:11:ARG:NH2	2.28	0.66
3:D:328:VAL:O	3:D:336:ALA:N	2.19	0.66
3:D:1207:LEU:HD22	3:D:1208:MET:H	1.58	0.66
2:C:130:ALA:HA	2:C:158:PRO:HA	1.77	0.66
2:C:568:VAL:HG21	3:D:847:LEU:HD23	1.76	0.66
3:D:334:ARG:CZ	5:F:419:GLU:O	2.44	0.66
3:D:557:ILE:HD12	4:E:54:VAL:HG22	1.76	0.66
3:D:633:ILE:HD12	3:D:635:VAL:HG13	1.78	0.66
3:D:1088:VAL:HB	3:D:1098:VAL:HG23	1.77	0.66
5:F:488:THR:N	5:F:491:GLU:OE1	2.27	0.66
1:B:97:LEU:HD13	1:B:110:ILE:HA	1.76	0.66
2:C:470:LEU:CD2	2:C:473:ARG:HD2	2.25	0.66
2:C:488:THR:HG22	2:C:606:LEU:HD11	1.77	0.66
2:C:561:VAL:O	2:C:568:VAL:HA	1.96	0.66
2:C:820:LEU:HD13	5:F:479:PHE:HE2	1.60	0.66
5:F:283:TRP:CE3	6:J:105:ILE:HD12	2.30	0.66
5:F:302:LEU:N	7:O:31:DT:O2	2.25	0.66
1:A:173:LYS:HB3	1:A:197:GLU:OE1	1.96	0.66
2:C:441:ASP:OD1	2:C:680:HIS:NE2	2.28	0.66
3:D:142:GLU:OE1	3:D:142:GLU:N	2.28	0.66
2:C:777:SER:O	2:C:781:LEU:HD13	1.96	0.66
2:C:1051:MET:SD	5:F:441:ASP:OD2	2.54	0.66
5:F:478:ARG:O	5:F:486:PRO:HB3	1.96	0.66
1:A:98:ARG:HG3	1:A:135:GLU:HA	1.77	0.66
2:C:822:ARG:O	2:C:826:GLY:N	2.29	0.66
2:C:955:TRP:HA	2:C:958:ARG:HH12	1.61	0.66
3:D:207:GLN:O	3:D:211:ARG:HG2	1.96	0.66
3:D:913:ASP:HB3	3:D:916:ILE:HD11	1.78	0.66
3:D:1220:TRP:HB3	3:D:1241:ARG:HH21	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:861:LEU:HD23	2:C:865:VAL:HG12	1.78	0.65
5:F:233:LYS:O	5:F:237:LYS:HG3	1.96	0.65
5:F:489:LEU:HD22	5:F:503:ILE:HB	1.77	0.65
1:B:3:ILE:CB	1:B:234:ILE:HA	2.26	0.65
1:B:95:MET:HE1	1:B:140:VAL:CG2	2.27	0.65
2:C:891:ASN:ND2	2:C:930:GLN:OE1	2.22	0.65
3:D:61:TYR:HB3	3:D:78:CYS:HB2	1.78	0.65
3:D:274:ALA:O	3:D:278:ARG:HG2	1.96	0.65
3:D:638:THR:O	3:D:657:GLN:O	2.14	0.65
5:F:217:LYS:O	5:F:220:GLU:HG3	1.97	0.65
1:B:73:VAL:HG12	1:B:77:ILE:HD11	1.78	0.65
2:C:1012:ASP:HB3	2:C:1015:SER:OG	1.95	0.65
3:D:277:LEU:HB2	3:D:296:LEU:HD13	1.79	0.65
5:F:336:ASP:OD1	5:F:338:THR:N	2.29	0.65
1:A:43:LEU:HD21	2:C:901:VAL:HG13	1.79	0.65
2:C:646:GLU:HG2	2:C:647:SER:O	1.95	0.65
3:D:139:VAL:HG13	3:D:141:GLU:HG2	1.78	0.65
1:A:52:THR:N	1:A:139:VAL:O	2.23	0.65
2:C:96:ILE:O	2:C:105:LEU:N	2.23	0.65
3:D:260:SER:O	3:D:264:LEU:HG	1.97	0.65
3:D:1068:PRO:HD2	3:D:1074:GLU:HG2	1.78	0.65
5:F:440:GLU:O	6:J:7:ARG:HB2	1.96	0.65
5:F:478:ARG:NH1	5:F:488:THR:HA	2.12	0.65
3:D:57:ASP:HB3	3:D:58:TRP:CE3	2.32	0.65
3:D:353:ARG:HD3	5:F:322:GLN:HB3	1.78	0.65
3:D:641:ARG:NH1	3:D:680:GLY:O	2.26	0.65
2:C:642:VAL:O	2:C:702:ILE:HG22	1.96	0.65
3:D:927:THR:CG2	3:D:961:LYS:HB3	2.27	0.65
1:A:102:PRO:HD3	1:A:130:ASP:HA	1.78	0.65
2:C:51:PRO:O	2:C:633:ARG:NH2	2.29	0.65
2:C:786:GLU:OE1	2:C:786:GLU:N	2.30	0.65
3:D:1272:VAL:HG22	4:E:106:HIS:HB2	1.78	0.65
5:F:335:PHE:CE1	5:F:343:PHE:HA	2.32	0.65
7:O:9:DA:H1'	7:O:10:DA:H5'	1.78	0.65
8:P:1:DA:H1'	8:P:2:DG:O4'	1.97	0.65
2:C:822:ARG:HD3	2:C:827:GLU:HB2	1.77	0.65
3:D:206:ARG:HB2	3:D:209:ARG:NH2	2.11	0.65
3:D:641:ARG:O	3:D:683:PHE:N	2.30	0.65
3:D:713:VAL:HA	3:D:716:LEU:HD12	1.78	0.65
5:F:316:ALA:O	5:F:320:LEU:HG	1.97	0.65
1:B:146:TYR:HB2	3:D:620:MET:HE2	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:213:LYS:NZ	1:B:217:GLU:OE2	2.24	0.65
2:C:189:GLU:HA	2:C:199:LEU:O	1.97	0.65
2:C:208:ARG:NH2	2:C:304:LYS:O	2.25	0.65
2:C:691:ASP:N	2:C:694:ASP:OD2	2.28	0.65
2:C:1096:THR:HA	2:C:1099:ARG:NH2	2.11	0.65
3:D:329:GLN:NE2	6:J:9:SER:OG	2.22	0.65
3:D:921:TYR:HE1	3:D:949:ILE:HG13	1.62	0.65
5:F:440:GLU:O	6:J:7:ARG:CB	2.45	0.65
5:F:478:ARG:HH11	5:F:488:THR:HA	1.62	0.65
1:B:85:VAL:HG23	1:B:117:THR:C	2.22	0.64
2:C:517:ARG:O	2:C:579:MET:N	2.16	0.64
3:D:931:ASP:HB3	3:D:935:ASN:OD1	1.97	0.64
3:D:1147:VAL:HG12	3:D:1149:ILE:HG12	1.77	0.64
2:C:103:MET:HB2	2:C:139:PHE:CZ	2.33	0.64
2:C:238:LEU:HB3	2:C:243:TRP:HB2	1.79	0.64
3:D:699:ASP:OD1	3:D:703:ARG:NH1	2.30	0.64
3:D:1211:THR:O	3:D:1215:LEU:HG	1.97	0.64
5:F:439:ILE:C	6:J:6:LEU:O	2.40	0.64
1:B:226:ASN:HD21	1:B:228:GLU:HB2	1.60	0.64
2:C:48:LEU:HD22	2:C:528:ILE:HD13	1.78	0.64
3:D:821:LYS:HB3	3:D:836:VAL:CG1	2.28	0.64
3:D:1100:SER:N	3:D:1103:ASP:OD2	2.30	0.64
5:F:407:PRO:O	5:F:411:LEU:HG	1.97	0.64
1:B:172:LEU:HD13	1:B:199:LYS:N	2.11	0.64
1:B:182:ARG:HD3	1:B:185:GLN:HB3	1.79	0.64
2:C:604:ARG:HD2	2:C:607:MET:SD	2.37	0.64
3:D:27:GLU:OE2	3:D:96:GLU:N	2.20	0.64
3:D:223:TRP:O	3:D:227:THR:HG23	1.96	0.64
3:D:1265:ASN:OD1	3:D:1268:ARG:NH2	2.22	0.64
1:A:157:ALA:CB	1:A:161:ARG:HG3	2.26	0.64
3:D:58:TRP:CD2	3:D:68:VAL:HG22	2.33	0.64
3:D:148:LEU:HA	3:D:151:LEU:HD12	1.78	0.64
3:D:510:GLN:OE1	3:D:561:SER:HA	1.97	0.64
3:D:891:CYS:HB3	3:D:970:THR:HG23	1.79	0.64
5:F:467:LEU:HB3	5:F:471:GLU:OE1	1.97	0.64
6:J:55:LEU:HA	6:J:61:GLU:HA	1.80	0.64
6:J:64:LEU:HD23	6:J:66:GLU:H	1.63	0.64
1:B:214:THR:HA	1:B:217:GLU:OE1	1.97	0.64
2:C:347:ARG:NH2	2:C:352:GLN:OE1	2.31	0.64
3:D:64:LYS:HB2	3:D:77:ARG:HH21	1.63	0.64
3:D:383:ASP:HA	3:D:401:SER:OG	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1068:PRO:CD	3:D:1074:GLU:HG2	2.28	0.64
3:D:1276:GLU:HG2	3:D:1279:ARG:HE	1.62	0.64
5:F:258:TYR:CG	6:J:94:LEU:HB3	2.32	0.64
1:B:147:VAL:HG12	1:B:166:SER:HB2	1.78	0.64
2:C:200:HIS:HB2	2:C:216:VAL:HG21	1.79	0.64
2:C:239:LYS:HB3	2:C:270:THR:HA	1.80	0.64
2:C:540:VAL:HG13	2:C:577:ASP:H	1.63	0.64
3:D:999:ALA:HB1	3:D:1153:HIS:HB3	1.80	0.64
6:J:106:ARG:HA	6:J:110:ARG:HG2	1.80	0.64
2:C:245:SER:OG	2:C:262:LEU:HD11	1.97	0.64
2:C:403:ARG:HB2	2:C:407:GLN:HG2	1.79	0.64
2:C:414:PRO:HA	2:C:417:LEU:HB2	1.80	0.64
3:D:603:SER:HA	3:D:606:HIS:O	1.97	0.64
2:C:186:TYR:O	2:C:202:VAL:HA	1.97	0.64
2:C:298:ASN:HA	2:C:302:LYS:CB	2.26	0.64
2:C:442:GLN:O	2:C:678:SER:OG	2.16	0.64
2:C:707:CYS:O	2:C:714:ALA:N	2.31	0.64
2:C:767:GLU:HG2	2:C:807:THR:HG21	1.80	0.64
3:D:52:PHE:O	3:D:91:ARG:HD2	1.98	0.64
3:D:75:CYS:SG	3:D:78:CYS:N	2.61	0.64
3:D:1128:ARG:O	3:D:1132:ILE:HG12	1.98	0.64
5:F:446:VAL:CG1	5:F:449:ASP:CG	2.65	0.64
2:C:133:LEU:CB	2:C:154:MET:HB3	2.27	0.64
2:C:240:ALA:HA	2:C:274:LEU:CD2	2.28	0.64
3:D:75:CYS:HB3	3:D:78:CYS:SG	2.37	0.64
3:D:505:HIS:HE1	3:D:507:LEU:HB2	1.61	0.64
3:D:802:ILE:HG23	3:D:807:ALA:HB3	1.80	0.64
1:B:108:GLY:N	1:B:121:PRO:O	2.28	0.63
2:C:485:PRO:O	3:D:857:ARG:NH2	2.31	0.63
2:C:1134:ASN:HB2	3:D:15:ALA:HA	1.80	0.63
3:D:1139:GLN:O	3:D:1143:ARG:HG3	1.98	0.63
3:D:1181:ILE:HD12	3:D:1185:GLU:HG2	1.81	0.63
1:A:76:ILE:O	1:A:80:LEU:HG	1.98	0.63
1:B:97:LEU:N	1:B:136:VAL:O	2.29	0.63
3:D:277:LEU:HD23	3:D:296:LEU:HB2	1.80	0.63
1:A:15:THR:OG1	1:A:18:ARG:HG3	1.98	0.63
1:A:43:LEU:HD23	2:C:902:GLU:CB	2.28	0.63
1:B:171:VAL:HA	1:B:198:THR:HG22	1.79	0.63
2:C:132:PRO:HB3	2:C:153:PHE:HE1	1.63	0.63
2:C:139:PHE:O	2:C:148:LYS:N	2.30	0.63
2:C:628:THR:N	2:C:631:GLU:OE2	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:737:LEU:HD12	2:C:895:ILE:HG23	1.79	0.63
4:E:39:PRO:O	4:E:43:LEU:HG	1.98	0.63
1:B:79:ASN:CB	1:B:125:ILE:HG13	2.28	0.63
2:C:274:LEU:HG	2:C:292:ALA:HB1	1.80	0.63
2:C:610:ASN:O	2:C:613:ARG:HG2	1.99	0.63
2:C:809:LYS:HB3	2:C:831:GLU:O	1.98	0.63
2:C:1048:PRO:O	2:C:1056:PRO:HA	1.97	0.63
2:C:1109:GLY:HA3	3:D:458:LYS:HE3	1.79	0.63
3:D:35:ASN:CB	3:D:38:THR:HG22	2.28	0.63
3:D:173:ARG:NH1	3:D:204:GLU:OE1	2.31	0.63
3:D:277:LEU:CB	3:D:296:LEU:HD13	2.29	0.63
3:D:439:HIS:CE1	4:E:33:LEU:HD11	2.34	0.63
3:D:459:ARG:HA	3:D:462:ASP:OD2	1.97	0.63
3:D:708:VAL:HG22	4:E:29:TYR:HB2	1.80	0.63
3:D:939:GLU:HG2	3:D:940:ARG:O	1.97	0.63
3:D:1052:ARG:O	3:D:1067:VAL:HB	1.98	0.63
1:B:14:LEU:HB2	1:B:18:ARG:O	1.99	0.63
2:C:261:THR:O	2:C:265:ASP:N	2.32	0.63
2:C:353:THR:HG23	2:C:354:THR:HG22	1.80	0.63
2:C:1003:ASP:OD1	2:C:1007:LYS:N	2.30	0.63
2:C:1124:LEU:CD2	11:D:1404:C0L:C02	2.77	0.63
3:D:493:GLU:HA	4:E:35:ILE:HD13	1.79	0.63
3:D:982:SER:HB3	3:D:985:THR:OG1	1.99	0.63
1:A:24:GLU:HB2	1:A:25:PRO:HA	1.81	0.63
1:A:182:ARG:HA	1:A:188:ASP:HB3	1.81	0.63
3:D:30:LYS:HD2	3:D:43:LYS:O	1.99	0.63
3:D:106:TYR:HB3	3:D:114:LEU:HG	1.81	0.63
3:D:143:MET:HE2	3:D:251:TYR:CE1	2.33	0.63
3:D:1249:LYS:CD	11:D:1404:C0L:N31	2.61	0.63
5:F:440:GLU:O	6:J:8:GLY:N	2.31	0.63
8:P:7:DA:C8	8:P:8:DT:H72	2.32	0.63
8:P:17:DT:H2"	8:P:18:DT:H71	1.80	0.63
1:B:171:VAL:HA	1:B:198:THR:CG2	2.29	0.63
2:C:443:ASN:ND2	2:C:613:ARG:O	2.28	0.63
2:C:465:ARG:NH2	2:C:492:PRO:O	2.29	0.63
2:C:563:ARG:NH2	2:C:569:GLU:OE1	2.30	0.63
2:C:770:THR:N	2:C:804:GLY:O	2.28	0.63
3:D:244:LEU:O	3:D:247:ARG:N	2.30	0.63
3:D:411:GLY:HA2	3:D:1228:GLU:H	1.64	0.63
3:D:670:ARG:HD3	3:D:685:ASN:HA	1.81	0.63
3:D:803:VAL:HG22	3:D:808:THR:O	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:894:GLU:O	3:D:961:LYS:NZ	2.20	0.63
6:J:109:ARG:HH12	6:J:110:ARG:HH21	1.46	0.63
1:B:30:PHE:O	1:B:33:THR:OG1	2.10	0.63
2:C:469:GLY:O	2:C:472:VAL:HG22	1.98	0.63
2:C:716:GLY:HA3	2:C:1030:ILE:O	1.99	0.63
5:F:334:LYS:HD3	5:F:350:TRP:CZ2	2.33	0.63
5:F:378:LYS:O	5:F:382:ILE:HG12	1.97	0.63
5:F:440:GLU:HB3	6:J:7:ARG:HB3	1.80	0.63
6:J:52:GLY:CA	6:J:64:LEU:HB2	2.28	0.63
2:C:771:ARG:O	2:C:773:ILE:HG12	1.98	0.63
2:C:831:GLU:OE1	2:C:831:GLU:N	2.32	0.63
3:D:190:LYS:NZ	3:D:192:ASP:HB3	2.13	0.63
5:F:228:VAL:O	5:F:232:LEU:HG	1.99	0.63
5:F:355:ILE:O	5:F:359:MET:HG3	1.99	0.63
1:A:129:ASN:OD1	1:A:132:GLY:N	2.32	0.62
2:C:144:THR:HG23	2:C:146:GLU:OE1	1.99	0.62
2:C:451:HIS:HA	2:C:454:ARG:NH2	2.13	0.62
2:C:476:HIS:ND1	2:C:477:PRO:HD2	2.14	0.62
2:C:507:ASN:HB3	2:C:511:PHE:N	2.10	0.62
2:C:1054:GLN:O	2:C:1055:GLN:HG2	1.97	0.62
3:D:737:LEU:HB2	3:D:793:TYR:CE1	2.34	0.62
3:D:1251:ASN:HA	3:D:1254:ILE:HG12	1.79	0.62
3:D:1274:PRO:HA	4:E:104:LEU:HD23	1.79	0.62
3:D:174:ALA:O	3:D:178:GLU:HG3	1.99	0.62
3:D:1273:GLN:O	4:E:105:GLU:HG2	1.99	0.62
5:F:223:ALA:O	5:F:224:SER:C	2.42	0.62
2:C:958:ARG:HD3	2:C:958:ARG:H	1.64	0.62
2:C:1057:LEU:HD21	2:C:1062:GLN:HE21	1.64	0.62
3:D:228:LYS:O	3:D:233:GLN:NE2	2.20	0.62
3:D:1036:GLU:HB3	3:D:1038:ARG:HG2	1.81	0.62
4:E:67:TYR:CZ	4:E:71:LEU:HD21	2.33	0.62
5:F:446:VAL:HG21	5:F:449:ASP:OD2	1.98	0.62
5:F:501:GLU:OE1	5:F:504:ARG:NE	2.18	0.62
1:A:89:GLU:OE1	1:A:89:GLU:N	2.33	0.62
1:A:142:ARG:NH2	1:B:230:GLU:OE1	2.33	0.62
1:B:9:LEU:HD13	1:B:23:ILE:HD11	1.79	0.62
2:C:514:THR:N	2:C:531:LEU:O	2.24	0.62
2:C:622:GLU:H	2:C:717:LYS:HE2	1.64	0.62
2:C:660:VAL:HG22	2:C:668:ARG:O	2.00	0.62
3:D:60:CYS:HB2	3:D:78:CYS:SG	2.39	0.62
3:D:103:HIS:HB3	3:D:106:TYR:HD2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:435:GLN:HG2	3:D:436:LEU:HD23	1.80	0.62
3:D:696:ILE:O	3:D:700:LEU:HG	1.99	0.62
3:D:968:CYS:SG	3:D:975:CYS:N	2.69	0.62
3:D:1062:TYR:HB2	3:D:1080:ILE:CG2	2.29	0.62
2:C:55:ASP:HA	2:C:58:THR:OG1	2.00	0.62
2:C:781:LEU:HA	2:C:784:LEU:HD13	1.82	0.62
4:E:83:VAL:HG13	4:E:97:ARG:HH21	1.65	0.62
1:A:181:THR:HG21	1:A:189:PHE:CE2	2.34	0.62
1:B:7:PRO:HB3	1:B:25:PRO:O	1.99	0.62
2:C:624:PRO:HA	2:C:718:ASN:HD21	1.64	0.62
2:C:927:ASN:O	2:C:930:GLN:HG2	2.00	0.62
3:D:268:PHE:HE2	3:D:270:ILE:HG22	1.64	0.62
3:D:823:LEU:HD23	3:D:835:PRO:HB3	1.79	0.62
3:D:889:HIS:O	3:D:977:THR:HG23	1.99	0.62
3:D:1009:GLN:O	3:D:1145:GLN:NE2	2.32	0.62
3:D:1270:ILE:HG22	3:D:1272:VAL:HG23	1.80	0.62
1:A:170:PRO:O	1:A:199:LYS:HG2	2.00	0.62
2:C:133:LEU:HB2	2:C:154:MET:HB3	1.79	0.62
2:C:200:HIS:HB2	2:C:216:VAL:CG2	2.29	0.62
2:C:429:GLU:O	2:C:433:THR:OG1	2.18	0.62
2:C:549:ASP:HB3	2:C:553:ARG:CB	2.30	0.62
3:D:1117:ASP:OD2	3:D:1119:HIS:HB2	2.00	0.62
3:D:1189:GLU:OE2	3:D:1192:ARG:NH2	2.28	0.62
5:F:329:ILE:HG22	5:F:333:GLU:OE2	2.00	0.62
5:F:460:LEU:HD13	5:F:464:LEU:HD13	1.79	0.62
5:F:488:THR:HB	8:P:20:DG:OP2	1.98	0.62
1:A:12:ASP:O	1:A:20:GLN:N	2.24	0.62
2:C:295:LEU:O	2:C:299:LEU:HG	2.00	0.62
2:C:507:ASN:ND2	2:C:509:PHE:HB2	2.15	0.62
2:C:631:GLU:OE1	2:C:631:GLU:N	2.31	0.62
2:C:740:ARG:NH1	2:C:744:GLU:OE1	2.33	0.62
2:C:815:THR:HB	2:C:817:GLU:OE1	2.00	0.62
3:D:83:THR:HG23	3:D:84:ARG:O	1.99	0.62
3:D:134:TYR:CD1	3:D:256:MET:HE3	2.35	0.62
3:D:1162:LEU:HD23	3:D:1207:LEU:HD23	1.82	0.62
6:J:34:THR:CG2	6:J:38:GLU:HB2	2.30	0.62
1:A:52:THR:HB	1:A:139:VAL:HG12	1.81	0.62
2:C:41:PHE:CD2	2:C:980:ALA:HB2	2.35	0.62
3:D:151:LEU:HD22	3:D:248:TYR:CE1	2.33	0.62
5:F:455:LEU:HA	5:F:458:ASP:OD2	2.00	0.62
1:A:181:THR:OG1	1:A:189:PHE:N	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:559:VAL:N	2:C:571:VAL:O	2.31	0.62
2:C:650:ILE:CG2	2:C:692:ALA:HA	2.30	0.62
2:C:855:ARG:HE	2:C:861:LEU:HB2	1.65	0.62
2:C:1137:VAL:O	3:D:-1:GLY:N	2.26	0.62
2:C:1139:SER:HA	3:D:8:ASP:H	1.65	0.62
3:D:245:VAL:HA	3:D:252:PHE:HZ	1.65	0.62
3:D:885:ILE:HG22	3:D:994:ALA:CB	2.30	0.62
7:O:2:DC:H2'	7:O:3:DT:C7	2.30	0.62
1:B:3:ILE:HD13	1:B:234:ILE:HG12	1.81	0.61
1:B:18:ARG:NH1	1:B:197:GLU:OE1	2.27	0.61
2:C:140:ILE:HA	2:C:146:GLU:O	1.99	0.61
2:C:652:GLU:HA	2:C:692:ALA:CB	2.30	0.61
2:C:661:MET:HE3	2:C:662:HIS:O	2.00	0.61
2:C:777:SER:HB3	2:C:780:VAL:HG22	1.81	0.61
2:C:1074:TRP:CH2	3:D:875:ARG:HA	2.35	0.61
3:D:49:GLU:OE1	3:D:54:PRO:HA	2.00	0.61
3:D:162:VAL:HG11	3:D:216:LEU:HG	1.82	0.61
3:D:384:ASN:H	3:D:401:SER:HB3	1.65	0.61
3:D:826:ASN:HB3	3:D:830:GLU:N	2.14	0.61
3:D:834:ARG:HB3	3:D:835:PRO:HA	1.82	0.61
3:D:1191:ARG:O	3:D:1194:VAL:HG22	2.00	0.61
1:A:11:GLU:HG2	1:A:21:PHE:CE1	2.35	0.61
1:B:30:PHE:HA	1:B:33:THR:CG2	2.29	0.61
2:C:140:ILE:HG23	2:C:146:GLU:N	2.15	0.61
2:C:369:ASP:O	2:C:375:ASN:ND2	2.27	0.61
2:C:855:ARG:NH1	2:C:862:PRO:O	2.32	0.61
3:D:212:ALA:O	3:D:215:GLU:HG2	2.00	0.61
3:D:328:VAL:O	3:D:335:PHE:HB3	2.01	0.61
8:P:11:DA:H4'	8:P:12:DA:OP1	2.00	0.61
1:B:1:MET:HB2	1:B:232:ILE:HG12	1.82	0.61
1:B:39:ARG:HG3	1:B:174:VAL:CG1	2.31	0.61
2:C:541:VAL:HA	2:C:578:TYR:O	2.00	0.61
2:C:652:GLU:HA	2:C:692:ALA:HB1	1.82	0.61
3:D:600:GLN:HE22	3:D:602:ALA:HB2	1.66	0.61
5:F:296:LEU:CD2	5:F:332:VAL:HG11	2.30	0.61
5:F:415:GLN:O	5:F:418:ARG:CB	2.48	0.61
2:C:853:PHE:O	2:C:868:LEU:N	2.28	0.61
2:C:952:VAL:HG12	2:C:953:PRO:O	2.00	0.61
3:D:874:THR:O	3:D:878:VAL:HG23	2.00	0.61
3:D:893:THR:O	3:D:940:ARG:NH1	2.34	0.61
1:A:40:ARG:NH2	1:B:32:TYR:HB2	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3:ILE:HG23	1:B:5:GLN:H	1.65	0.61
2:C:221:THR:HA	2:C:261:THR:CG2	2.30	0.61
2:C:272:GLU:HA	2:C:275:LEU:HD21	1.81	0.61
2:C:1037:VAL:HG11	3:D:520:LYS:HB2	1.83	0.61
3:D:344:TYR:O	3:D:348:ILE:HG12	2.00	0.61
3:D:354:LEU:HD13	3:D:370:GLU:HB3	1.82	0.61
3:D:596:THR:HB	3:D:628:SER:H	1.63	0.61
3:D:866:ARG:HD2	3:D:1010:LEU:O	1.99	0.61
3:D:1266:ARG:HA	4:E:109:GLY:O	2.00	0.61
1:A:214:THR:O	1:A:217:GLU:HB2	2.00	0.61
1:B:1:MET:N	1:B:231:GLY:O	2.34	0.61
2:C:89:VAL:HA	2:C:92:GLU:OE2	2.01	0.61
2:C:557:PRO:HA	2:C:573:SER:OG	2.01	0.61
2:C:1071:MET:CE	3:D:502:PRO:HA	2.29	0.61
3:D:34:ILE:HG13	3:D:40:LYS:C	2.26	0.61
3:D:239:ASN:HD21	3:D:242:ARG:HH21	1.49	0.61
5:F:241:LEU:HD11	5:F:294:HIS:CE1	2.35	0.61
5:F:382:ILE:HA	5:F:385:GLU:OE1	2.01	0.61
1:A:14:LEU:HB2	1:A:19:SER:HA	1.83	0.61
1:B:218:LEU:HD12	1:B:221:LEU:HD12	1.82	0.61
2:C:212:LEU:HA	2:C:226:ILE:HA	1.82	0.61
2:C:675:PHE:N	2:C:685:ASN:OD1	2.34	0.61
2:C:759:ALA:HB3	2:C:867:GLU:N	2.15	0.61
2:C:1007:LYS:HB3	2:C:1022:PRO:HB2	1.81	0.61
1:B:168:TYR:O	1:B:170:PRO:HD3	2.01	0.61
2:C:344:TYR:OH	2:C:366:GLU:N	2.28	0.61
3:D:222:ILE:CB	3:D:240:LEU:HD11	2.30	0.61
3:D:412:ARG:HA	3:D:1227:GLN:NE2	2.15	0.61
3:D:1062:TYR:HB2	3:D:1080:ILE:CB	2.30	0.61
2:C:224:VAL:O	2:C:232:GLN:HB2	2.00	0.61
2:C:310:ARG:HE	2:C:328:ILE:HB	1.64	0.61
3:D:136:ILE:HG13	3:D:229:LEU:HD11	1.81	0.61
3:D:443:LEU:HD12	3:D:444:PRO:CD	2.26	0.61
4:E:42:GLU:HA	4:E:45:ASP:OD2	2.01	0.61
4:E:60:ARG:NH2	4:E:80:GLY:HA3	2.16	0.61
1:B:84:VAL:HG22	1:B:119:HIS:CD2	2.35	0.61
1:B:84:VAL:CG1	1:B:119:HIS:HB2	2.30	0.61
1:B:113:PRO:O	1:B:116:VAL:HG22	2.00	0.61
2:C:233:PRO:HG2	2:C:236:VAL:CG2	2.31	0.61
2:C:774:PRO:HD2	2:C:834:ASP:OD1	2.00	0.61
2:C:855:ARG:N	2:C:866:ASN:O	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:30:LYS:CD	3:D:44:ASP:HB2	2.31	0.61
3:D:127:LYS:HA	3:D:132:ALA:HB3	1.82	0.61
3:D:350:ARG:NH1	3:D:373:MET:O	2.34	0.61
3:D:448:ALA:HA	3:D:451:LEU:HB2	1.83	0.61
3:D:847:LEU:O	3:D:851:ILE:HG12	2.00	0.61
3:D:1088:VAL:HG23	3:D:1098:VAL:N	2.16	0.61
3:D:1219:SER:OG	3:D:1243:ASP:OD2	2.11	0.61
4:E:70:GLN:NE2	4:E:76:LEU:HB2	2.14	0.61
5:F:415:GLN:CB	5:F:418:ARG:CD	2.70	0.61
5:F:499:THR:O	5:F:503:ILE:HG12	2.01	0.61
2:C:320:LEU:HB2	2:C:322:LEU:HG	1.83	0.60
2:C:352:GLN:HB3	2:C:365:VAL:HG21	1.83	0.60
2:C:523:VAL:HA	2:C:552:GLY:C	2.26	0.60
2:C:854:SER:N	2:C:859:ASP:OD2	2.26	0.60
2:C:884:LYS:HE2	2:C:892:LYS:HD2	1.82	0.60
2:C:944:TRP:O	2:C:966:ALA:N	2.31	0.60
2:C:1038:ASP:HA	2:C:1041:ILE:HG22	1.83	0.60
2:C:1074:TRP:HH2	3:D:875:ARG:HA	1.65	0.60
3:D:374:LEU:O	3:D:377:SER:OG	2.11	0.60
3:D:567:SER:HB2	3:D:571:GLY:N	2.16	0.60
3:D:1032:GLN:O	3:D:1036:GLU:N	2.32	0.60
5:F:408:GLU:HA	5:F:411:LEU:HD12	1.83	0.60
6:J:106:ARG:HA	6:J:110:ARG:CG	2.31	0.60
1:A:105:VAL:HG12	1:A:125:ILE:HB	1.82	0.60
2:C:252:PHE:HB3	2:C:255:SER:CB	2.31	0.60
2:C:435:GLN:NE2	2:C:459:GLY:HA2	2.16	0.60
3:D:400:LYS:HA	3:D:404:ASP:OD2	2.00	0.60
3:D:606:HIS:ND1	3:D:607:PRO:O	2.33	0.60
3:D:1168:ILE:HG13	3:D:1202:ALA:CB	2.31	0.60
8:P:21:DT:H1'	8:P:22:DC:H5'	1.82	0.60
1:B:54:ILE:O	1:B:162:ILE:HG13	2.01	0.60
2:C:105:LEU:HA	2:C:139:PHE:HA	1.83	0.60
2:C:185:VAL:HA	2:C:204:VAL:HG22	1.82	0.60
2:C:1057:LEU:HD23	2:C:1062:GLN:HG2	1.82	0.60
3:D:124:ASP:HB3	3:D:234:LEU:CD2	2.31	0.60
3:D:257:GLY:O	3:D:260:SER:OG	2.13	0.60
3:D:749:TYR:HA	3:D:752:ARG:HD3	1.84	0.60
5:F:264:THR:O	5:F:267:SER:OG	2.08	0.60
1:A:181:THR:HG1	1:A:189:PHE:H	1.47	0.60
2:C:223:GLY:HA2	2:C:231:ARG:HH22	1.67	0.60
2:C:1138:LEU:HA	3:D:-1:GLY:H3	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:511:ALA:N	3:D:559:MET:O	2.30	0.60
3:D:879:ASP:HB3	3:D:1226:PHE:HE1	1.66	0.60
3:D:1045:PRO:HD2	3:D:1112:MET:HG2	1.84	0.60
1:B:95:MET:HB2	1:B:138:LEU:HB2	1.83	0.60
1:B:183:VAL:HA	1:B:188:ASP:CA	2.30	0.60
2:C:650:ILE:HG13	2:C:694:ASP:HB2	1.83	0.60
2:C:688:PRO:HA	2:C:703:ALA:HB2	1.83	0.60
2:C:862:PRO:HG2	2:C:865:VAL:HG21	1.84	0.60
2:C:1083:TYR:O	2:C:1087:GLU:HG2	2.01	0.60
3:D:879:ASP:HB3	3:D:1226:PHE:CE1	2.36	0.60
5:F:453:PHE:O	5:F:456:LEU:HB3	2.02	0.60
1:B:49:ALA:HB2	1:B:142:ARG:HB3	1.82	0.60
1:B:97:LEU:HD21	1:B:105:VAL:CG1	2.28	0.60
1:B:170:PRO:HA	1:B:199:LYS:CE	2.32	0.60
2:C:407:GLN:HG3	2:C:417:LEU:CD2	2.32	0.60
2:C:855:ARG:HB2	2:C:866:ASN:HA	1.84	0.60
2:C:1050:SER:N	2:C:1055:GLN:O	2.35	0.60
3:D:279:ASP:O	3:D:282:ARG:HB3	2.02	0.60
3:D:453:LYS:HB3	3:D:454:PRO:HD3	1.81	0.60
3:D:496:VAL:O	3:D:511:ALA:HA	2.01	0.60
3:D:607:PRO:O	3:D:609:THR:HG23	2.01	0.60
3:D:671:VAL:O	3:D:675:GLU:HG3	2.01	0.60
3:D:1063:LYS:HZ2	3:D:1078:ASP:HB3	1.66	0.60
5:F:234:GLN:HA	5:F:237:LYS:CE	2.31	0.60
1:B:87:SER:HG	1:B:116:VAL:HA	1.66	0.60
2:C:163:LYS:HE2	2:C:640:ASP:OD1	2.01	0.60
2:C:644:ALA:HB3	2:C:700:GLN:H	1.65	0.60
2:C:760:ARG:HB2	2:C:767:GLU:OE2	2.02	0.60
3:D:1158:VAL:HA	3:D:1161:MET:CG	2.32	0.60
5:F:364:ARG:HD2	5:F:368:ILE:HD12	1.82	0.60
5:F:506:ILE:O	5:F:510:THR:HG23	2.02	0.60
1:A:3:ILE:HD11	1:A:27:GLU:OE2	2.02	0.60
1:A:95:MET:HA	1:A:113:PRO:HD3	1.84	0.60
1:B:223:ARG:HG2	1:B:227:VAL:HG22	1.83	0.60
2:C:413:THR:HG23	2:C:415:GLN:HB3	1.84	0.60
2:C:524:VAL:HG12	2:C:525:SER:O	2.01	0.60
2:C:647:SER:HA	2:C:697:GLU:HA	1.83	0.60
2:C:721:VAL:HG23	2:C:915:ILE:O	2.02	0.60
3:D:237:ASP:O	3:D:238:GLU:HG3	2.01	0.60
3:D:360:LEU:HD21	5:F:329:ILE:HG21	1.84	0.60
3:D:1151:ASP:O	3:D:1155:GLU:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1187:GLU:O	3:D:1191:ARG:HG2	2.01	0.60
6:J:58:ASN:HD21	6:J:60:MET:HE3	1.66	0.60
2:C:470:LEU:HD22	2:C:473:ARG:HD2	1.83	0.60
2:C:507:ASN:HA	2:C:513:GLU:CD	2.26	0.60
2:C:1139:SER:OG	3:D:6:PHE:HB3	2.02	0.60
3:D:121:ALA:HB3	3:D:124:ASP:OD2	2.02	0.60
5:F:334:LYS:NZ	7:O:25:DC:H3'	2.17	0.60
2:C:71:ARG:HH11	2:C:82:PRO:HB2	1.66	0.60
2:C:191:ILE:HG13	2:C:197:LYS:C	2.27	0.60
2:C:252:PHE:HB3	2:C:255:SER:HB2	1.84	0.60
2:C:442:GLN:HG3	2:C:678:SER:OG	2.02	0.60
2:C:488:THR:O	2:C:610:ASN:ND2	2.28	0.60
2:C:559:VAL:O	2:C:571:VAL:HG12	2.02	0.60
2:C:944:TRP:NE1	2:C:963:LEU:O	2.30	0.60
2:C:1051:MET:HE1	5:F:441:ASP:OD1	1.65	0.60
3:D:76:GLU:N	3:D:76:GLU:OE1	2.31	0.60
3:D:334:ARG:NH1	5:F:419:GLU:N	2.36	0.60
3:D:1128:ARG:HA	3:D:1131:GLN:OE1	2.02	0.60
3:D:1190:ASN:O	3:D:1194:VAL:HG13	2.01	0.60
1:B:96:TYR:HB2	1:B:111:VAL:CG1	2.32	0.59
2:C:152:VAL:HG21	2:C:418:ILE:CD1	2.32	0.59
2:C:601:ASP:OD2	2:C:603:ASN:ND2	2.35	0.59
3:D:263:LYS:HA	3:D:266:GLU:OE1	2.01	0.59
3:D:826:ASN:HA	3:D:832:ILE:HD11	1.82	0.59
3:D:1050:THR:HG23	3:D:1107:VAL:CG2	2.28	0.59
5:F:318:LEU:HD23	5:F:321:ILE:CD1	2.31	0.59
6:J:76:LYS:HG2	6:J:77:PRO:O	2.02	0.59
2:C:689:ILE:HG12	2:C:702:ILE:O	2.02	0.59
2:C:1040:LYS:C	2:C:1060:LYS:HE3	2.26	0.59
3:D:594:GLY:N	3:D:598:GLU:OE2	2.34	0.59
3:D:771:ASN:O	3:D:775:VAL:HG23	2.01	0.59
5:F:414:GLN:O	5:F:418:ARG:CG	2.35	0.59
5:F:439:ILE:HG13	6:J:6:LEU:HD11	1.81	0.59
1:A:56:ILE:O	1:A:59:VAL:HG22	2.02	0.59
1:B:96:TYR:CD1	1:B:137:GLU:HG2	2.36	0.59
2:C:50:VAL:HG11	2:C:633:ARG:HG2	1.83	0.59
2:C:641:VAL:HG22	2:C:705:GLY:N	2.16	0.59
2:C:721:VAL:HG22	2:C:722:ALA:O	2.02	0.59
3:D:970:THR:CG2	3:D:975:CYS:HB3	2.33	0.59
5:F:415:GLN:CA	5:F:418:ARG:CG	2.53	0.59
1:A:53:SER:CB	1:A:163:PRO:HA	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:55:ARG:HB3	1:A:137:GLU:OE2	2.02	0.59
1:B:106:THR:CG2	1:B:124:HIS:HA	2.33	0.59
2:C:54:LEU:O	2:C:58:THR:HG23	2.02	0.59
2:C:205:ILE:HG22	2:C:211:TRP:CD1	2.37	0.59
2:C:584:ARG:O	2:C:587:VAL:HG12	2.03	0.59
2:C:677:ARG:HB2	2:C:752:ILE:HG21	1.84	0.59
2:C:887:GLY:HA3	2:C:1028:MET:HE2	1.83	0.59
2:C:1073:CYS:O	2:C:1075:ALA:CA	2.49	0.59
3:D:460:LEU:HD11	3:D:472:ALA:CB	2.31	0.59
3:D:878:VAL:HG22	3:D:1000:ALA:CB	2.26	0.59
3:D:924:THR:OG1	3:D:963:ARG:HB2	2.02	0.59
5:F:262:LEU:HA	5:F:265:GLU:CG	2.32	0.59
1:B:12:ASP:O	1:B:20:GLN:N	2.22	0.59
2:C:675:PHE:HA	2:C:683:CYS:SG	2.42	0.59
2:C:768:GLU:O	2:C:805:LYS:HG2	2.02	0.59
2:C:1007:LYS:CB	2:C:1022:PRO:HB2	2.32	0.59
3:D:177:LEU:CD1	3:D:198:ARG:HA	2.31	0.59
3:D:592:VAL:O	3:D:595:ASP:HB2	2.01	0.59
3:D:636:ARG:HG2	3:D:662:TRP:C	2.28	0.59
1:A:23:ILE:HG22	1:A:26:LEU:HD21	1.83	0.59
1:A:53:SER:HB3	1:A:163:PRO:HA	1.84	0.59
1:A:216:VAL:HG13	1:B:216:VAL:HG23	1.85	0.59
1:A:223:ARG:HG3	1:B:213:LYS:N	2.18	0.59
2:C:278:TYR:CE2	2:C:287:PRO:HA	2.37	0.59
2:C:641:VAL:HG13	2:C:703:ALA:O	2.02	0.59
2:C:651:GLU:CD	2:C:667:ARG:HD2	2.27	0.59
2:C:751:HIS:O	2:C:874:ALA:HA	2.03	0.59
2:C:822:ARG:HH12	2:C:829:ALA:HA	1.66	0.59
3:D:136:ILE:CD1	3:D:229:LEU:HD11	2.33	0.59
3:D:686:LYS:HB2	3:D:688:MET:HE1	1.83	0.59
3:D:738:VAL:HB	3:D:739:PRO:HD2	1.83	0.59
2:C:128:THR:OG1	2:C:168:ILE:HA	2.03	0.59
2:C:275:LEU:HB3	2:C:289:LYS:NZ	2.18	0.59
2:C:652:GLU:N	2:C:659:THR:OG1	2.36	0.59
2:C:747:LEU:HB2	2:C:879:ILE:HB	1.85	0.59
2:C:994:PRO:HB3	2:C:999:ASP:N	2.13	0.59
3:D:11:ARG:HA	3:D:1242:SER:HA	1.84	0.59
3:D:212:ALA:HA	3:D:215:GLU:HG2	1.83	0.59
3:D:612:TYR:HD1	3:D:617:GLU:HG2	1.68	0.59
4:E:84:GLU:O	4:E:97:ARG:NH2	2.36	0.59
8:P:3:DC:H1'	8:P:4:DA:C5'	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:LEU:CG	1:A:20:GLN:HG3	2.33	0.59
1:B:175:THR:CG2	1:B:195:ASP:HB3	2.33	0.59
2:C:945:LYS:HA	2:C:965:GLU:CA	2.30	0.59
3:D:101:VAL:HG13	3:D:375:GLN:OE1	2.03	0.59
3:D:365:ILE:H	3:D:365:ILE:HD12	1.65	0.59
3:D:457:MET:HE3	3:D:473:LYS:N	2.17	0.59
3:D:589:THR:HG21	3:D:688:MET:HG2	1.85	0.59
3:D:638:THR:HG22	3:D:661:ALA:HA	1.83	0.59
3:D:742:LYS:O	3:D:746:LEU:HG	2.02	0.59
4:E:67:TYR:O	4:E:71:LEU:HG	2.02	0.59
4:E:95:ALA:O	4:E:99:ILE:HG13	2.03	0.59
5:F:373:VAL:HG12	5:F:377:ASN:HD21	1.67	0.59
2:C:1072:GLU:HA	2:C:1075:ALA:CB	2.32	0.59
3:D:412:ARG:H	3:D:1227:GLN:HG3	1.68	0.59
3:D:460:LEU:HD11	3:D:472:ALA:HB2	1.84	0.59
3:D:481:PRO:HA	3:D:484:TRP:CD1	2.36	0.59
3:D:642:PRO:HB3	3:D:662:TRP:CZ3	2.38	0.59
5:F:243:ALA:O	5:F:247:VAL:HG23	2.03	0.59
5:F:463:VAL:HA	5:F:466:THR:HG23	1.85	0.59
3:D:459:ARG:O	3:D:462:ASP:HB2	2.01	0.59
3:D:820:MET:HE3	3:D:837:LYS:HG2	1.85	0.59
3:D:1055:LEU:HD21	3:D:1086:LEU:HD21	1.84	0.59
6:J:64:LEU:HD23	6:J:65:ILE:HG22	1.85	0.59
1:A:214:THR:CG2	1:B:232:ILE:HB	2.33	0.58
1:B:87:SER:HB3	1:B:89:GLU:OE1	2.03	0.58
2:C:92:GLU:HG3	2:C:93:LEU:CD2	2.33	0.58
2:C:105:LEU:HD13	2:C:139:PHE:HB2	1.84	0.58
2:C:381:VAL:O	2:C:385:ILE:HG12	2.03	0.58
2:C:548:ILE:HG12	2:C:554:PHE:CE1	2.37	0.58
2:C:737:LEU:HD23	2:C:915:ILE:HG22	1.85	0.58
2:C:1054:GLN:C	2:C:1055:GLN:HG3	2.27	0.58
2:C:1076:MET:HE1	2:C:1085:LEU:N	2.18	0.58
3:D:25:TYR:HA	6:J:57:ARG:HG3	1.84	0.58
3:D:215:GLU:O	3:D:219:LEU:HD23	2.03	0.58
3:D:362:ALA:HB1	3:D:363:PRO:HD2	1.85	0.58
3:D:553:ALA:HB1	4:E:54:VAL:HG13	1.84	0.58
3:D:641:ARG:HG3	3:D:647:GLU:OE2	2.03	0.58
3:D:898:VAL:HG12	3:D:961:LYS:N	2.17	0.58
3:D:926:GLY:CA	3:D:940:ARG:HG3	2.31	0.58
3:D:1070:ASP:N	3:D:1071:GLY:HA2	2.18	0.58
3:D:1181:ILE:HB	3:D:1185:GLU:OE1	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:292:LYS:O	5:F:296:LEU:HG	2.03	0.58
5:F:408:GLU:OE1	5:F:408:GLU:N	2.31	0.58
5:F:411:LEU:O	5:F:415:GLN:HG3	2.03	0.58
1:A:97:LEU:HB3	1:A:136:VAL:CG1	2.33	0.58
2:C:102:SER:HB2	2:C:143:ASN:HD21	1.68	0.58
2:C:147:ILE:O	2:C:148:LYS:HD2	2.02	0.58
2:C:212:LEU:CB	2:C:226:ILE:HG13	2.33	0.58
2:C:945:LYS:HG3	2:C:965:GLU:HB3	1.84	0.58
3:D:56:ARG:HG2	6:J:13:ALA:N	2.16	0.58
3:D:119:ASP:HB2	3:D:295:ARG:HH21	1.66	0.58
3:D:120:LEU:HD11	3:D:232:LYS:HD3	1.86	0.58
3:D:162:VAL:HB	3:D:216:LEU:HD21	1.85	0.58
3:D:241:TYR:O	3:D:245:VAL:HG23	2.02	0.58
3:D:1036:GLU:CB	3:D:1038:ARG:HG2	2.33	0.58
5:F:333:GLU:HA	6:J:81:HIS:CE1	2.38	0.58
5:F:476:ARG:HA	5:F:481:LEU:HD12	1.86	0.58
6:J:97:LEU:HA	6:J:100:GLU:OE1	2.03	0.58
1:A:14:LEU:CB	1:A:19:SER:HA	2.34	0.58
1:A:99:LYS:HB3	1:A:134:LEU:HB3	1.85	0.58
1:B:48:GLY:N	1:B:143:GLY:O	2.36	0.58
1:B:104:GLU:HG2	1:B:127:THR:HA	1.84	0.58
2:C:39:VAL:HG11	2:C:963:LEU:HD21	1.83	0.58
2:C:115:VAL:HG11	2:C:129:TYR:CZ	2.39	0.58
2:C:413:THR:CG2	2:C:415:GLN:HB3	2.33	0.58
2:C:456:SER:CB	2:C:497:ILE:HG12	2.33	0.58
3:D:49:GLU:CD	3:D:54:PRO:HA	2.28	0.58
3:D:212:ALA:HA	3:D:215:GLU:CD	2.27	0.58
3:D:612:TYR:OH	3:D:627:LEU:HD11	2.03	0.58
3:D:615:PRO:O	3:D:619:ILE:HG13	2.03	0.58
3:D:1150:HIS:ND1	3:D:1152:LYS:HG2	2.18	0.58
4:E:60:ARG:HD2	4:E:63:GLN:OE1	2.04	0.58
5:F:325:ASN:O	5:F:329:ILE:HG13	2.02	0.58
5:F:462:SER:O	5:F:466:THR:HG23	2.03	0.58
1:A:108:GLY:CA	1:A:121:PRO:HB3	2.33	0.58
1:B:72:ASP:OD2	1:B:74:THR:HG22	2.03	0.58
2:C:768:GLU:N	2:C:806:VAL:O	2.36	0.58
2:C:1003:ASP:OD2	2:C:1005:ASP:HB2	2.03	0.58
3:D:345:ARG:NE	5:F:365:THR:HA	2.18	0.58
3:D:1084:GLN:C	3:D:1085:ARG:HD2	2.28	0.58
3:D:1158:VAL:HA	3:D:1161:MET:SD	2.44	0.58
6:J:55:LEU:HG	6:J:60:MET:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:274:LEU:CG	2:C:292:ALA:HB1	2.34	0.58
3:D:73:ILE:O	3:D:81:GLU:HG3	2.03	0.58
3:D:125:LEU:HA	3:D:128:ILE:HD12	1.84	0.58
3:D:127:LYS:CA	3:D:132:ALA:HB3	2.34	0.58
3:D:192:ASP:OD2	3:D:196:LYS:HE3	2.04	0.58
3:D:457:MET:HA	3:D:460:LEU:HD21	1.85	0.58
3:D:689:HIS:O	3:D:693:GLN:HG3	2.03	0.58
3:D:737:LEU:HB2	3:D:793:TYR:HE1	1.68	0.58
3:D:1053:VAL:HG22	3:D:1055:LEU:N	2.19	0.58
5:F:464:LEU:HD23	5:F:476:ARG:HE	1.69	0.58
2:C:216:VAL:HG11	2:C:349:HIS:CD2	2.39	0.58
3:D:550:GLU:HG3	4:E:58:ALA:HB1	1.84	0.58
3:D:1087:ARG:NH1	3:D:1110:GLN:OE1	2.37	0.58
3:D:1247:GLY:O	3:D:1259:PRO:HG3	2.04	0.58
5:F:334:LYS:HZ1	7:O:25:DC:H3'	1.67	0.58
5:F:455:LEU:HD13	5:F:458:ASP:OD2	2.04	0.58
1:A:97:LEU:HB3	1:A:136:VAL:HG12	1.85	0.58
1:B:96:TYR:HB2	1:B:111:VAL:HG11	1.86	0.58
2:C:310:ARG:O	2:C:328:ILE:HG21	2.04	0.58
2:C:603:ASN:O	2:C:607:MET:HG3	2.04	0.58
2:C:660:VAL:CG2	2:C:668:ARG:HB3	2.34	0.58
2:C:789:ILE:HG22	2:C:803:VAL:CG2	2.33	0.58
2:C:881:ASP:HA	2:C:895:ILE:CG2	2.33	0.58
2:C:1067:ARG:CG	3:D:421:ARG:HA	2.33	0.58
3:D:173:ARG:HD3	3:D:204:GLU:HB2	1.85	0.58
3:D:599:TYR:HA	3:D:610:GLY:HA3	1.84	0.58
3:D:767:HIS:O	3:D:770:ARG:HG3	2.03	0.58
3:D:827:PRO:HG3	3:D:854:HIS:CB	2.29	0.58
3:D:1066:ILE:HD12	3:D:1075:VAL:CB	2.34	0.58
1:A:214:THR:HG23	1:B:232:ILE:HB	1.86	0.58
2:C:105:LEU:HD12	2:C:138:GLU:O	2.03	0.58
2:C:158:PRO:HG2	2:C:431:PHE:CE2	2.38	0.58
3:D:667:THR:O	3:D:671:VAL:HG23	2.04	0.58
3:D:963:ARG:HD3	3:D:978:CYS:SG	2.43	0.58
1:A:14:LEU:CD1	1:A:20:GLN:HG3	2.34	0.58
1:B:27:GLU:HB2	1:B:30:PHE:CE2	2.39	0.58
3:D:33:THR:CB	3:D:327:MET:HE1	2.33	0.58
3:D:739:PRO:CG	3:D:742:LYS:HB2	2.34	0.58
3:D:742:LYS:HE2	3:D:746:LEU:HD21	1.85	0.58
5:F:336:ASP:OD2	5:F:339:LYS:HG3	2.03	0.58
2:C:72:GLU:O	2:C:76:GLU:HG2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:104:SER:O	2:C:140:ILE:N	2.20	0.58
2:C:543:GLN:CD	3:D:847:LEU:HD11	2.28	0.58
3:D:134:TYR:CD1	3:D:256:MET:HB2	2.39	0.58
3:D:468:ASN:OD1	3:D:471:SER:N	2.20	0.58
3:D:557:ILE:CD1	4:E:54:VAL:HG22	2.34	0.58
3:D:668:LEU:HD23	3:D:672:MET:HE2	1.85	0.58
3:D:672:MET:HA	3:D:675:GLU:OE1	2.04	0.58
3:D:905:ALA:HB2	3:D:911:ILE:HG23	1.86	0.58
3:D:990:ASP:OD2	4:E:49:SER:HB2	2.04	0.58
1:A:127:THR:C	1:A:128:LEU:HD12	2.29	0.57
1:B:64:THR:O	1:B:65:THR:OG1	2.21	0.57
2:C:62:GLU:O	2:C:65:ILE:HB	2.04	0.57
2:C:240:ALA:HA	2:C:274:LEU:HD21	1.86	0.57
2:C:408:ASP:OD1	2:C:412:ILE:HG23	2.03	0.57
2:C:583:PRO:O	2:C:584:ARG:HD2	2.04	0.57
2:C:780:VAL:HG23	2:C:781:LEU:CD1	2.34	0.57
3:D:177:LEU:HD12	3:D:180:ASP:HB2	1.86	0.57
3:D:457:MET:HA	3:D:460:LEU:CD2	2.34	0.57
3:D:910:LEU:HD21	3:D:956:GLY:HA2	1.86	0.57
3:D:989:VAL:CG2	3:D:993:GLU:HG3	2.34	0.57
5:F:306:LEU:CD1	5:F:351:ILE:HG21	2.34	0.57
6:J:85:LEU:HD11	6:J:89:ARG:HG3	1.85	0.57
1:B:49:ALA:HA	1:B:142:ARG:CA	2.31	0.57
1:B:54:ILE:O	1:B:162:ILE:N	2.31	0.57
1:B:98:ARG:HG2	1:B:135:GLU:CB	2.33	0.57
1:B:145:GLY:O	1:B:169:SER:N	2.36	0.57
2:C:291:SER:HA	2:C:294:THR:OG1	2.04	0.57
2:C:560:LEU:HA	2:C:569:GLU:O	2.04	0.57
2:C:715:LEU:O	2:C:1031:MET:HG2	2.04	0.57
3:D:614:SER:O	3:D:617:GLU:HB3	2.03	0.57
3:D:823:LEU:HD23	3:D:835:PRO:CB	2.34	0.57
3:D:912:ARG:HG2	3:D:913:ASP:O	2.04	0.57
1:A:97:LEU:HD13	1:A:110:ILE:HA	1.87	0.57
2:C:238:LEU:HG	2:C:248:ILE:HG12	1.86	0.57
2:C:314:TYR:HB2	2:C:328:ILE:HG12	1.87	0.57
2:C:533:ALA:O	2:C:536:GLU:HB3	2.04	0.57
2:C:563:ARG:HD3	2:C:564:LYS:H	1.69	0.57
2:C:733:ASP:O	2:C:735:ILE:HG13	2.04	0.57
3:D:851:ILE:HA	3:D:854:HIS:HD2	1.68	0.57
3:D:1248:LEU:O	3:D:1252:VAL:HG23	2.04	0.57
5:F:331:ALA:HB2	5:F:350:TRP:CB	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:386:LEU:HD13	5:F:398:GLU:OE2	2.05	0.57
1:B:39:ARG:HG3	1:B:174:VAL:HG11	1.86	0.57
2:C:83:VAL:HA	2:C:87:GLU:OE1	2.04	0.57
2:C:278:TYR:O	2:C:282:ARG:HG2	2.04	0.57
2:C:401:ARG:HA	2:C:404:MET:HB2	1.86	0.57
2:C:473:ARG:NH2	2:C:496:LEU:HD11	2.19	0.57
2:C:882:GLY:H	2:C:895:ILE:HB	1.68	0.57
3:D:276:SER:O	3:D:280:VAL:HG23	2.04	0.57
3:D:329:GLN:HG2	6:J:9:SER:O	2.05	0.57
3:D:882:GLN:O	3:D:1248:LEU:HD21	2.04	0.57
2:C:139:PHE:HB3	2:C:148:LYS:HB2	1.85	0.57
2:C:681:GLY:O	2:C:752:ILE:N	2.37	0.57
3:D:428:SER:HB3	3:D:522:ILE:CD1	2.34	0.57
3:D:1088:VAL:CA	3:D:1098:VAL:HA	2.28	0.57
4:E:50:LYS:O	4:E:54:VAL:HG23	2.05	0.57
2:C:820:LEU:HD11	2:C:824:ILE:HD11	1.86	0.57
2:C:988:LEU:O	2:C:991:CYS:N	2.32	0.57
2:C:1071:MET:SD	3:D:503:THR:N	2.76	0.57
2:C:1084:THR:O	2:C:1088:LEU:HG	2.05	0.57
2:C:1123:VAL:O	2:C:1127:GLU:HG3	2.05	0.57
3:D:74:ILE:HG12	3:D:81:GLU:CA	2.35	0.57
3:D:206:ARG:HB2	3:D:209:ARG:CZ	2.35	0.57
3:D:639:GLN:NE2	3:D:658:PRO:O	2.34	0.57
3:D:656:TRP:HE3	3:D:658:PRO:HD2	1.70	0.57
3:D:866:ARG:NH1	3:D:1011:THR:HA	2.19	0.57
3:D:946:ASP:HB2	3:D:947:PRO:HD3	1.87	0.57
3:D:1275:THR:HG22	4:E:103:LEU:O	2.04	0.57
5:F:241:LEU:HB3	5:F:245:GLU:CG	2.35	0.57
5:F:242:ASN:O	5:F:245:GLU:HB2	2.04	0.57
5:F:367:ARG:NH2	7:O:22:DG:OP1	2.37	0.57
1:B:18:ARG:HG3	1:B:197:GLU:HB2	1.85	0.57
2:C:244:THR:OG1	2:C:247:GLN:HG3	2.05	0.57
2:C:616:VAL:HG22	2:C:1032:LYS:O	2.04	0.57
2:C:982:GLU:O	2:C:986:GLN:HG3	2.04	0.57
2:C:1068:PHE:H	3:D:422:VAL:HG23	1.70	0.57
3:D:119:ASP:HB2	3:D:295:ARG:NH2	2.20	0.57
3:D:173:ARG:HG2	3:D:205:MET:HB2	1.85	0.57
3:D:329:GLN:HE21	6:J:9:SER:HG	1.52	0.57
3:D:589:THR:HG21	3:D:688:MET:CG	2.34	0.57
3:D:895:ARG:HB2	3:D:967:THR:HB	1.85	0.57
5:F:459:GLN:O	5:F:462:SER:OG	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:63:PHE:HB2	3:D:603:SER:OG	2.04	0.57
1:B:175:THR:HG22	1:B:195:ASP:HB3	1.87	0.57
2:C:134:PHE:HA	2:C:152:VAL:O	2.04	0.57
2:C:443:ASN:OD1	2:C:447:SER:HB3	2.04	0.57
2:C:581:VAL:HG22	2:C:585:GLN:OE1	2.05	0.57
2:C:632:LEU:O	2:C:636:ILE:HG23	2.04	0.57
2:C:888:ARG:NH2	2:C:933:GLU:OE2	2.26	0.57
2:C:1054:GLN:C	2:C:1055:GLN:CG	2.78	0.57
3:D:158:GLU:O	3:D:162:VAL:HG23	2.04	0.57
3:D:1162:LEU:CD2	3:D:1207:LEU:HD23	2.34	0.57
1:A:177:LYS:N	1:A:193:ILE:O	2.33	0.57
2:C:312:GLY:O	2:C:316:VAL:HG23	2.05	0.57
2:C:716:GLY:N	2:C:1029:TYR:OH	2.38	0.57
2:C:943:GLY:O	2:C:993:LEU:HG	2.05	0.57
2:C:1042:HIS:NE2	2:C:1063:PHE:O	2.37	0.57
3:D:30:LYS:HD2	3:D:44:ASP:HB2	1.87	0.57
3:D:173:ARG:HG2	3:D:205:MET:CA	2.35	0.57
3:D:341:ASN:O	3:D:345:ARG:HG3	2.05	0.57
3:D:444:PRO:HG2	3:D:447:MET:HB3	1.87	0.57
3:D:466:ALA:HB1	3:D:471:SER:OG	2.05	0.57
5:F:276:ALA:O	5:F:279:ARG:HG2	2.04	0.57
6:J:28:GLN:O	6:J:44:PHE:N	2.38	0.57
6:J:106:ARG:HA	6:J:110:ARG:CD	2.35	0.57
1:A:53:SER:HB2	1:A:162:ILE:O	2.05	0.57
1:A:80:LEU:HD22	1:A:83:LEU:HD11	1.86	0.57
1:B:3:ILE:HG12	1:B:234:ILE:HG23	1.84	0.57
2:C:103:MET:HB2	2:C:139:PHE:HZ	1.68	0.57
2:C:529:VAL:HG12	2:C:531:LEU:HG	1.87	0.57
2:C:650:ILE:N	2:C:694:ASP:O	2.22	0.57
2:C:1103:TYR:O	2:C:1107:VAL:HG23	2.04	0.57
3:D:52:PHE:CD2	3:D:322:PRO:HG3	2.40	0.57
3:D:75:CYS:O	3:D:79:GLY:N	2.26	0.57
3:D:319:VAL:HG13	3:D:344:TYR:CZ	2.40	0.57
3:D:915:TYR:CE1	3:D:1143:ARG:HG2	2.40	0.57
3:D:927:THR:HG21	3:D:961:LYS:HB3	1.86	0.57
3:D:1272:VAL:HG22	4:E:106:HIS:CB	2.35	0.57
7:O:19:DA:H4'	7:O:20:DT:OP1	2.05	0.57
1:A:147:VAL:HG22	1:A:148:PRO:O	2.05	0.56
2:C:185:VAL:HG12	2:C:204:VAL:HG22	1.87	0.56
2:C:674:LYS:HZ2	2:C:685:ASN:HB3	1.70	0.56
2:C:884:LYS:CE	2:C:892:LYS:HD2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:50:LYS:CA	3:D:80:VAL:HG22	2.34	0.56
4:E:70:GLN:HG3	4:E:73:GLU:OE2	2.05	0.56
6:J:108:ARG:CD	6:J:109:ARG:H	2.17	0.56
2:C:225:ARG:HG3	2:C:230:ARG:N	2.19	0.56
2:C:483:MET:HE3	2:C:498:GLY:HA3	1.85	0.56
2:C:540:VAL:HG22	2:C:576:VAL:HG22	1.87	0.56
2:C:582:SER:HB2	2:C:583:PRO:HD2	1.86	0.56
2:C:674:LYS:NZ	2:C:685:ASN:HB3	2.19	0.56
2:C:759:ALA:CB	2:C:867:GLU:HB3	2.34	0.56
2:C:1097:VAL:O	2:C:1101:LYS:HG2	2.05	0.56
3:D:706:MET:N	4:E:41:ASP:OD2	2.37	0.56
4:E:38:PRO:HG2	4:E:43:LEU:HD21	1.87	0.56
1:A:5:GLN:NE2	1:A:25:PRO:HG3	2.20	0.56
1:A:8:THR:O	1:A:23:ILE:HG23	2.06	0.56
1:A:24:GLU:HA	1:A:26:LEU:HG	1.88	0.56
1:A:27:GLU:O	1:A:30:PHE:HB3	2.04	0.56
1:A:105:VAL:CG1	1:A:125:ILE:HB	2.35	0.56
1:B:51:VAL:CA	1:B:140:VAL:HG22	2.35	0.56
1:B:53:SER:CB	1:B:163:PRO:HA	2.35	0.56
2:C:129:TYR:CE2	2:C:159:MET:HB2	2.41	0.56
2:C:206:PRO:HG2	2:C:209:GLY:HA3	1.88	0.56
2:C:220:ASP:OD2	2:C:257:ILE:HA	2.05	0.56
2:C:239:LYS:NZ	2:C:268:VAL:HA	2.21	0.56
2:C:239:LYS:HZ3	2:C:268:VAL:HA	1.70	0.56
2:C:482:ARG:HG2	2:C:512:ILE:HG21	1.86	0.56
2:C:612:GLN:HG3	2:C:1031:MET:SD	2.45	0.56
2:C:648:GLY:O	2:C:696:VAL:N	2.37	0.56
2:C:883:ASP:OD1	2:C:1037:VAL:HG23	2.05	0.56
2:C:982:GLU:OE2	3:D:841:ARG:NH2	2.38	0.56
2:C:1124:LEU:O	2:C:1128:LEU:HG	2.05	0.56
3:D:27:GLU:HB2	3:D:94:HIS:NE2	2.20	0.56
3:D:206:ARG:HA	3:D:209:ARG:CG	2.34	0.56
3:D:229:LEU:HA	3:D:233:GLN:OE1	2.05	0.56
3:D:289:LYS:O	3:D:293:LEU:HG	2.05	0.56
3:D:328:VAL:CG1	3:D:336:ALA:HB3	2.35	0.56
3:D:340:LEU:HA	3:D:343:LEU:HD12	1.85	0.56
3:D:601:PRO:HA	3:D:608:GLU:CB	2.35	0.56
3:D:1065:THR:HG23	3:D:1076:VAL:HA	1.87	0.56
3:D:1274:PRO:HG2	4:E:79:VAL:CG1	2.36	0.56
5:F:442:SER:CB	6:J:7:ARG:HD3	2.31	0.56
5:F:446:VAL:CG1	5:F:449:ASP:OD2	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:19:DA:C8	7:O:20:DT:H72	2.40	0.56
1:A:152:ASN:ND2	1:A:161:ARG:HB2	2.20	0.56
2:C:506:VAL:HG12	2:C:507:ASN:O	2.06	0.56
2:C:882:GLY:N	2:C:895:ILE:HB	2.21	0.56
2:C:922:VAL:HB	2:C:923:PRO:HD3	1.86	0.56
3:D:203:ARG:O	3:D:206:ARG:HG2	2.05	0.56
1:A:61:HIS:CD2	1:A:63:PHE:HB2	2.41	0.56
1:A:172:LEU:HD12	1:A:197:GLU:OE2	2.04	0.56
2:C:50:VAL:HA	2:C:503:TYR:HE1	1.71	0.56
2:C:771:ARG:HD2	2:C:786:GLU:HA	1.87	0.56
2:C:989:LEU:HD21	2:C:1006:GLY:N	2.20	0.56
3:D:69:ARG:HB2	6:J:20:ARG:HH22	1.71	0.56
3:D:185:GLU:HA	3:D:194:ARG:NH1	2.16	0.56
3:D:741:ARG:HB2	3:D:744:GLU:OE2	2.04	0.56
3:D:911:ILE:HD12	3:D:911:ILE:O	2.06	0.56
5:F:356:THR:HA	5:F:359:MET:SD	2.46	0.56
8:P:17:DT:H1'	8:P:18:DT:H5'	1.88	0.56
1:A:32:TYR:CE1	2:C:1018:PRO:HD3	2.41	0.56
2:C:658:ILE:O	2:C:669:THR:HA	2.04	0.56
2:C:1133:LEU:O	2:C:1135:VAL:HG23	2.06	0.56
3:D:199:ASP:O	3:D:203:ARG:HG3	2.04	0.56
5:F:315:MET:SD	5:F:359:MET:HA	2.46	0.56
1:A:113:PRO:O	1:A:116:VAL:HG22	2.04	0.56
2:C:799:GLY:N	2:C:839:VAL:HG13	2.20	0.56
2:C:1079:TYR:CD2	3:D:559:MET:HG2	2.40	0.56
3:D:74:ILE:HG12	3:D:81:GLU:HA	1.88	0.56
3:D:435:GLN:OE1	3:D:435:GLN:N	2.32	0.56
3:D:1030:ARG:O	3:D:1034:LEU:HG	2.06	0.56
3:D:1142:TYR:O	3:D:1147:VAL:N	2.37	0.56
3:D:1158:VAL:HA	3:D:1161:MET:HG3	1.88	0.56
1:A:25:PRO:O	1:A:26:LEU:HD23	2.04	0.56
1:A:26:LEU:H	1:A:189:PHE:HB2	1.70	0.56
1:B:39:ARG:O	1:B:43:LEU:HD13	2.06	0.56
2:C:41:PHE:HB3	2:C:43:LYS:NZ	2.21	0.56
2:C:540:VAL:CG1	2:C:576:VAL:HA	2.36	0.56
3:D:78:CYS:SG	3:D:79:GLY:N	2.79	0.56
3:D:235:ILE:HD13	3:D:241:TYR:HD1	1.71	0.56
3:D:624:ARG:HB3	3:D:626:VAL:HG23	1.88	0.56
3:D:905:ALA:HB3	3:D:909:THR:N	2.21	0.56
3:D:923:ARG:NH2	3:D:1155:GLU:OE2	2.37	0.56
3:D:1181:ILE:HD11	3:D:1186:PHE:CB	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:241:LEU:HB3	5:F:245:GLU:CB	2.35	0.56
5:F:339:LYS:HB3	5:F:341:TYR:CE2	2.41	0.56
5:F:502:ARG:NH2	7:O:1:DG:H3'	2.21	0.56
7:O:11:DA:C2'	7:O:12:DG:H5''	2.30	0.56
1:A:95:MET:HG2	1:A:138:LEU:HB2	1.86	0.56
1:B:104:GLU:CG	1:B:127:THR:HG22	2.34	0.56
1:B:210:SER:O	1:B:214:THR:HG23	2.06	0.56
2:C:230:ARG:NH2	5:F:212:LEU:HA	2.21	0.56
2:C:762:THR:N	2:C:765:GLY:O	2.38	0.56
3:D:58:TRP:HA	3:D:82:VAL:HG23	1.86	0.56
3:D:84:ARG:HD3	3:D:86:LYS:CE	2.33	0.56
3:D:642:PRO:HD2	3:D:657:GLN:NE2	2.21	0.56
3:D:893:THR:HG21	3:D:967:THR:O	2.06	0.56
5:F:438:PHE:C	6:J:6:LEU:CG	2.71	0.56
5:F:476:ARG:CA	5:F:481:LEU:HB2	2.36	0.56
1:B:169:SER:HB3	1:B:171:VAL:CG2	2.35	0.56
2:C:138:GLU:HA	2:C:148:LYS:O	2.06	0.56
2:C:344:TYR:CE1	2:C:365:VAL:HA	2.40	0.56
2:C:731:TYR:N	2:C:734:ALA:HB3	2.21	0.56
2:C:759:ALA:HB3	2:C:867:GLU:H	1.71	0.56
3:D:350:ARG:HA	3:D:353:ARG:NH1	2.21	0.56
3:D:760:PHE:CD1	3:D:770:ARG:HG2	2.41	0.56
3:D:775:VAL:CG1	3:D:779:LYS:HE3	2.36	0.56
5:F:334:LYS:NZ	7:O:25:DC:OP1	2.38	0.56
1:B:162:ILE:HD12	1:B:162:ILE:O	2.06	0.55
1:B:183:VAL:HA	1:B:188:ASP:H	1.70	0.55
2:C:48:LEU:HG	2:C:49:GLU:O	2.05	0.55
2:C:71:ARG:NH1	2:C:82:PRO:O	2.39	0.55
2:C:131:ALA:N	2:C:157:PHE:O	2.39	0.55
2:C:653:VAL:HA	2:C:658:ILE:HG12	1.88	0.55
2:C:677:ARG:HG3	2:C:752:ILE:HB	1.88	0.55
2:C:720:LEU:HA	2:C:1026:GLY:O	2.06	0.55
2:C:802:LEU:HD11	2:C:839:VAL:HA	1.87	0.55
2:C:1054:GLN:O	2:C:1055:GLN:HG3	2.04	0.55
3:D:153:ALA:O	3:D:157:VAL:HG23	2.05	0.55
3:D:1061:PHE:HB2	3:D:1080:ILE:O	2.06	0.55
3:D:1108:GLY:HA3	3:D:1125:GLN:NE2	2.21	0.55
3:D:1276:GLU:HA	3:D:1279:ARG:CB	2.36	0.55
5:F:253:ILE:HG12	5:F:288:GLY:O	2.05	0.55
5:F:335:PHE:O	6:J:88:ARG:NH1	2.39	0.55
5:F:471:GLU:O	5:F:475:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:J:106:ARG:HA	6:J:110:ARG:HD3	1.87	0.55
1:A:85:VAL:HG23	1:A:117:THR:C	2.31	0.55
1:A:97:LEU:O	1:A:136:VAL:N	2.39	0.55
1:A:105:VAL:HB	1:A:126:ALA:N	2.20	0.55
1:A:172:LEU:CB	1:A:199:LYS:HB3	2.34	0.55
1:A:181:THR:HG21	1:A:189:PHE:CZ	2.41	0.55
2:C:306:TYR:HE2	2:C:333:LEU:HG	1.70	0.55
2:C:424:VAL:HA	2:C:427:ILE:HD12	1.89	0.55
2:C:601:ASP:OD1	2:C:602:ALA:N	2.40	0.55
2:C:689:ILE:HG13	2:C:690:VAL:HG13	1.88	0.55
2:C:756:GLU:OE1	2:C:870:ARG:HD3	2.07	0.55
2:C:767:GLU:HG2	2:C:807:THR:CG2	2.36	0.55
2:C:889:HIS:HB2	2:C:891:ASN:CG	2.32	0.55
3:D:137:THR:HG23	3:D:253:THR:OG1	2.06	0.55
3:D:929:ALA:O	3:D:937:ILE:N	2.38	0.55
3:D:1260:ALA:O	3:D:1263:GLY:N	2.40	0.55
5:F:258:TYR:CD1	6:J:94:LEU:HD13	2.41	0.55
5:F:456:LEU:HA	5:F:526:TYR:CE2	2.41	0.55
1:B:103:GLY:N	1:B:128:LEU:HB2	2.22	0.55
2:C:33:PRO:HG2	2:C:700:GLN:HG3	1.88	0.55
2:C:255:SER:HB3	2:C:258:MET:CG	2.37	0.55
2:C:518:LYS:HB3	2:C:578:TYR:CE1	2.40	0.55
2:C:756:GLU:CB	2:C:870:ARG:HG2	2.36	0.55
2:C:995:ASN:OD1	2:C:996:ARG:N	2.37	0.55
2:C:1003:ASP:OD1	2:C:1006:GLY:N	2.38	0.55
2:C:1067:ARG:O	2:C:1067:ARG:HG2	2.06	0.55
2:C:1071:MET:HE1	3:D:501:ALA:HB1	1.88	0.55
3:D:27:GLU:HB2	3:D:94:HIS:CE1	2.42	0.55
3:D:370:GLU:HB2	5:F:322:GLN:NE2	2.21	0.55
3:D:400:LYS:HG3	3:D:404:ASP:CB	2.37	0.55
3:D:902:ALA:CB	3:D:912:ARG:HA	2.35	0.55
3:D:1052:ARG:HA	3:D:1104:HIS:CA	2.35	0.55
3:D:1054:ARG:HB3	3:D:1065:THR:O	2.06	0.55
1:A:18:ARG:HB3	1:A:197:GLU:HA	1.87	0.55
1:A:179:ASP:CB	1:A:191:LYS:HB3	2.29	0.55
1:A:185:GLN:HB2	1:A:187:THR:HG22	1.88	0.55
1:A:195:ASP:OD1	1:A:196:VAL:N	2.39	0.55
1:A:211:ALA:O	1:A:215:LEU:HD23	2.06	0.55
1:A:216:VAL:HG13	1:B:216:VAL:CG2	2.35	0.55
1:B:50:ALA:C	1:B:140:VAL:HG13	2.31	0.55
1:B:101:GLY:O	1:B:128:LEU:HD23	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:134:PHE:CD1	2:C:153:PHE:HA	2.41	0.55
2:C:168:ILE:HG22	2:C:169:ASN:OD1	2.07	0.55
2:C:272:GLU:O	2:C:275:LEU:HG	2.05	0.55
2:C:541:VAL:C	2:C:561:VAL:HG23	2.32	0.55
2:C:651:GLU:OE1	2:C:667:ARG:HD2	2.07	0.55
2:C:1049:TYR:HA	2:C:1056:PRO:CA	2.36	0.55
3:D:18:GLU:HA	3:D:21:ARG:HG2	1.87	0.55
8:P:5:DC:H2"	8:P:6:DA:OP2	2.07	0.55
1:B:183:VAL:HA	1:B:188:ASP:N	2.22	0.55
2:C:189:GLU:HB3	2:C:200:HIS:CG	2.41	0.55
2:C:208:ARG:NH2	2:C:305:ARG:HA	2.22	0.55
2:C:298:ASN:HD22	2:C:302:LYS:HE2	1.72	0.55
2:C:413:THR:OG1	2:C:414:PRO:HD2	2.06	0.55
2:C:622:GLU:O	2:C:714:ALA:HB1	2.07	0.55
3:D:158:GLU:OE2	3:D:219:LEU:HG	2.06	0.55
3:D:295:ARG:O	3:D:299:VAL:HG23	2.07	0.55
3:D:381:LEU:O	3:D:401:SER:HB2	2.07	0.55
3:D:589:THR:HG21	3:D:688:MET:HB2	1.89	0.55
3:D:873:LEU:O	3:D:877:LEU:HG	2.07	0.55
3:D:965:VAL:HG11	3:D:1156:VAL:CG2	2.32	0.55
4:E:56:TYR:OH	4:E:104:LEU:HB2	2.07	0.55
5:F:463:VAL:HA	5:F:466:THR:CG2	2.36	0.55
1:B:85:VAL:HG23	1:B:118:VAL:N	2.21	0.55
2:C:255:SER:HB3	2:C:258:MET:HB2	1.89	0.55
2:C:275:LEU:HB3	2:C:289:LYS:HZ3	1.70	0.55
2:C:650:ILE:HG12	2:C:694:ASP:C	2.32	0.55
2:C:760:ARG:HA	2:C:864:GLY:O	2.07	0.55
2:C:790:VAL:HG13	2:C:802:LEU:O	2.06	0.55
3:D:134:TYR:HB2	3:D:235:ILE:HB	1.89	0.55
3:D:599:TYR:CD2	3:D:601:PRO:HD3	2.42	0.55
3:D:729:VAL:HB	3:D:798:PRO:HB3	1.89	0.55
3:D:1181:ILE:HD12	3:D:1185:GLU:CG	2.37	0.55
1:B:146:TYR:HD1	1:B:167:ILE:HA	1.71	0.55
2:C:59:ASP:HA	2:C:62:GLU:HG2	1.87	0.55
2:C:150:GLN:CD	2:C:414:PRO:HG2	2.32	0.55
2:C:210:ALA:HB3	2:C:300:PHE:HE1	1.72	0.55
2:C:380:THR:O	2:C:384:LEU:HG	2.07	0.55
2:C:563:ARG:HB3	2:C:567:GLU:HB2	1.88	0.55
2:C:785:ASP:N	2:C:789:ILE:O	2.24	0.55
2:C:792:ILE:HD11	2:C:850:ILE:HD12	1.89	0.55
2:C:905:PRO:HA	2:C:1011:PHE:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:955:TRP:CE2	2:C:987:GLY:HA3	2.42	0.55
2:C:1055:GLN:NE2	3:D:420:LYS:HD3	2.22	0.55
2:C:1067:ARG:HH12	3:D:418:LEU:HD21	1.70	0.55
2:C:1094:ASP:CB	2:C:1119:GLU:H	2.20	0.55
3:D:1033:GLU:HA	3:D:1036:GLU:CB	2.34	0.55
5:F:289:ASP:O	5:F:292:LYS:HB3	2.06	0.55
1:A:34:LEU:O	1:A:37:SER:HB3	2.06	0.55
1:B:52:THR:HB	1:B:139:VAL:CG1	2.35	0.55
2:C:301:PHE:HE1	2:C:334:THR:HA	1.70	0.55
2:C:384:LEU:HA	2:C:387:ASN:ND2	2.21	0.55
2:C:505:ARG:NH2	2:C:513:GLU:OE1	2.34	0.55
2:C:543:GLN:HA	2:C:580:ASP:OD2	2.07	0.55
2:C:853:PHE:CD2	2:C:868:LEU:HD12	2.41	0.55
2:C:1096:THR:HA	2:C:1099:ARG:CZ	2.35	0.55
3:D:1167:ILE:HG23	3:D:1169:ASP:O	2.07	0.55
5:F:247:VAL:HG13	5:F:251:LYS:HE3	1.89	0.55
5:F:322:GLN:HA	5:F:325:ASN:ND2	2.21	0.55
5:F:342:LYS:HG2	7:O:29:DA:H3'	1.88	0.55
2:C:278:TYR:CD2	2:C:287:PRO:HA	2.41	0.55
2:C:376:ARG:NH2	2:C:457:ALA:HB2	2.22	0.55
2:C:722:ALA:O	2:C:723:ILE:HD13	2.07	0.55
2:C:736:ILE:HD11	2:C:916:ILE:HB	1.88	0.55
3:D:64:LYS:HG2	3:D:65:TYR:CE2	2.41	0.55
3:D:127:LYS:O	3:D:132:ALA:N	2.37	0.55
3:D:329:GLN:OE1	6:J:11:LEU:HD21	2.07	0.55
3:D:674:ASN:HD21	3:D:684:VAL:H	1.55	0.55
3:D:747:ASP:O	3:D:751:GLU:HG3	2.06	0.55
5:F:445:VAL:HG12	5:F:447:ALA:N	2.22	0.55
1:A:107:ALA:HB3	1:A:121:PRO:C	2.31	0.55
1:B:98:ARG:HA	1:B:134:LEU:O	2.07	0.55
2:C:191:ILE:HA	2:C:198:THR:HA	1.89	0.55
2:C:236:VAL:HG13	2:C:273:ALA:HB1	1.89	0.55
2:C:1119:GLU:O	2:C:1123:VAL:HG23	2.07	0.55
3:D:131:PHE:CD1	3:D:256:MET:HG2	2.42	0.55
3:D:181:LEU:HD21	3:D:198:ARG:CD	2.37	0.55
3:D:468:ASN:ND2	3:D:470:LYS:HB3	2.21	0.55
3:D:896:GLY:N	3:D:967:THR:HG21	2.22	0.55
3:D:1066:ILE:HG13	3:D:1077:TYR:HE2	1.72	0.55
5:F:439:ILE:CG1	6:J:6:LEU:HD12	2.26	0.55
6:J:6:LEU:HD12	6:J:6:LEU:O	2.07	0.55
1:A:33:THR:CG2	1:B:37:SER:HA	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:141:GLU:HG2	1:A:142:ARG:O	2.06	0.54
2:C:147:ILE:C	2:C:148:LYS:HD2	2.33	0.54
2:C:435:GLN:HG3	2:C:436:LEU:HD12	1.87	0.54
2:C:696:VAL:HB	2:C:700:GLN:OE1	2.06	0.54
3:D:826:ASN:ND2	3:D:828:LYS:HB2	2.22	0.54
3:D:845:THR:N	3:D:848:GLU:OE1	2.39	0.54
1:A:145:GLY:N	1:A:168:TYR:HB2	2.21	0.54
1:A:174:VAL:O	2:C:910:GLY:HA3	2.06	0.54
1:B:90:ASP:OD1	1:B:142:ARG:HD3	2.07	0.54
1:B:98:ARG:HG2	1:B:135:GLU:CA	2.34	0.54
2:C:789:ILE:HG22	2:C:803:VAL:HG13	1.89	0.54
3:D:86:LYS:O	3:D:89:ARG:HB3	2.08	0.54
3:D:262:GLN:O	3:D:266:GLU:HG3	2.08	0.54
3:D:524:LEU:HD21	3:D:528:VAL:HG23	1.89	0.54
3:D:530:GLU:HB2	3:D:578:ARG:HH11	1.73	0.54
3:D:736:VAL:HG22	3:D:799:ILE:HD13	1.90	0.54
8:P:14:DA:H1'	8:P:15:DC:H5'	1.88	0.54
1:A:147:VAL:CG1	1:A:166:SER:HB2	2.37	0.54
1:B:63:PHE:HB2	3:D:603:SER:CB	2.36	0.54
2:C:41:PHE:HB3	2:C:43:LYS:HZ2	1.71	0.54
2:C:277:ILE:HD13	2:C:280:LYS:NZ	2.23	0.54
2:C:306:TYR:OH	2:C:333:LEU:HD11	2.08	0.54
3:D:64:LYS:HE3	3:D:75:CYS:SG	2.47	0.54
3:D:206:ARG:HA	3:D:209:ARG:HG3	1.88	0.54
3:D:356:ARG:HA	3:D:359:ASP:OD2	2.06	0.54
3:D:423:ASP:OD1	3:D:424:TYR:N	2.39	0.54
3:D:438:LEU:HA	3:D:525:HIS:CD2	2.42	0.54
3:D:820:MET:HG3	3:D:837:LYS:C	2.32	0.54
3:D:895:ARG:NH1	3:D:967:THR:HA	2.23	0.54
3:D:922:ALA:CB	3:D:981:ARG:HB3	2.37	0.54
3:D:1025:THR:HG22	3:D:1030:ARG:HB2	1.89	0.54
1:A:74:THR:HA	1:A:77:ILE:CG1	2.38	0.54
2:C:222:VAL:HB	2:C:234:VAL:HG13	1.88	0.54
2:C:222:VAL:CG2	2:C:233:PRO:HA	2.36	0.54
2:C:647:SER:CB	2:C:697:GLU:HA	2.37	0.54
2:C:718:ASN:C	2:C:719:LEU:HD12	2.32	0.54
2:C:841:HIS:O	2:C:843:GLU:HG3	2.07	0.54
2:C:1007:LYS:HD2	2:C:1022:PRO:O	2.07	0.54
3:D:329:GLN:HB2	3:D:335:PHE:CD1	2.42	0.54
3:D:457:MET:O	3:D:460:LEU:HG	2.08	0.54
3:D:585:LEU:O	3:D:589:THR:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:612:TYR:CZ	3:D:627:LEU:HD11	2.43	0.54
3:D:672:MET:HA	3:D:675:GLU:CD	2.32	0.54
3:D:921:TYR:HA	3:D:944:LEU:O	2.07	0.54
5:F:317:PHE:O	5:F:321:ILE:HG13	2.08	0.54
7:O:24:DG:H1'	7:O:25:DC:H5'	1.90	0.54
1:B:73:VAL:O	1:B:77:ILE:HG13	2.08	0.54
1:B:137:GLU:C	1:B:138:LEU:HD12	2.33	0.54
2:C:113:ASP:HB2	2:C:132:PRO:HD2	1.88	0.54
2:C:187:PHE:N	2:C:368:ASP:OD2	2.41	0.54
3:D:55:THR:O	6:J:12:GLY:HA3	2.07	0.54
3:D:334:ARG:NH1	5:F:419:GLU:O	2.41	0.54
3:D:367:VAL:CG1	3:D:371:LYS:HE3	2.37	0.54
3:D:914:PRO:HG2	3:D:915:TYR:CD2	2.43	0.54
3:D:1028:LEU:HB3	3:D:1029:PRO:HD3	1.88	0.54
5:F:241:LEU:HD11	5:F:294:HIS:HE1	1.70	0.54
8:P:22:DC:H2''	8:P:23:DA:C8	2.43	0.54
1:A:54:ILE:CG2	1:A:138:LEU:HA	2.34	0.54
1:A:113:PRO:HD2	1:A:116:VAL:HG21	1.89	0.54
1:A:177:LYS:O	1:A:193:ILE:N	2.41	0.54
1:B:71:GLU:OE2	1:B:127:THR:HG23	2.08	0.54
2:C:89:VAL:HA	2:C:92:GLU:HG2	1.90	0.54
2:C:106:SER:O	2:C:138:GLU:N	2.27	0.54
2:C:516:TYR:CE2	2:C:531:LEU:HB2	2.42	0.54
2:C:540:VAL:HG11	2:C:575:GLU:O	2.08	0.54
3:D:329:GLN:HB2	3:D:335:PHE:CE1	2.42	0.54
3:D:662:TRP:CZ3	3:D:664:ALA:HB2	2.43	0.54
3:D:684:VAL:HG13	3:D:686:LYS:NZ	2.21	0.54
3:D:721:PHE:O	3:D:725:THR:HG23	2.08	0.54
3:D:910:LEU:CD2	3:D:956:GLY:HA2	2.38	0.54
3:D:1169:ASP:O	3:D:1201:ALA:HB1	2.07	0.54
5:F:315:MET:CE	5:F:362:GLN:HB2	2.37	0.54
1:A:107:ALA:HB3	1:A:121:PRO:CA	2.37	0.54
2:C:182:SER:CB	2:C:377:ARG:HD2	2.37	0.54
2:C:232:GLN:NE2	2:C:233:PRO:HD2	2.23	0.54
2:C:373:PHE:CE2	2:C:479:HIS:HA	2.43	0.54
2:C:622:GLU:HB3	2:C:717:LYS:HD3	1.90	0.54
2:C:907:LEU:CD1	2:C:911:THR:HB	2.29	0.54
2:C:1035:HIS:HA	2:C:1040:LYS:HZ1	1.73	0.54
3:D:472:ALA:O	3:D:476:VAL:HG23	2.07	0.54
3:D:736:VAL:CG1	3:D:841:ARG:HD2	2.37	0.54
3:D:880:VAL:HG21	3:D:1210:ILE:HB	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1056:GLU:HB3	3:D:1063:LYS:O	2.08	0.54
3:D:1234:THR:O	3:D:1238:ILE:HG13	2.07	0.54
3:D:1251:ASN:HA	3:D:1254:ILE:CG1	2.37	0.54
4:E:56:TYR:CE2	4:E:99:ILE:HG12	2.43	0.54
5:F:440:GLU:C	6:J:7:ARG:HA	2.31	0.54
5:F:478:ARG:NH1	8:P:20:DG:OP1	2.23	0.54
1:B:107:ALA:CB	1:B:123:MET:HB3	2.37	0.54
2:C:97:GLU:HG3	2:C:103:MET:O	2.08	0.54
2:C:516:TYR:CD2	2:C:531:LEU:HB2	2.43	0.54
2:C:820:LEU:HD13	5:F:479:PHE:CE2	2.40	0.54
2:C:1023:VAL:HG13	3:D:730:THR:HG21	1.90	0.54
3:D:937:ILE:HD11	3:D:951:ALA:CB	2.35	0.54
3:D:1009:GLN:O	3:D:1011:THR:HG23	2.08	0.54
3:D:1050:THR:H	3:D:1107:VAL:HG22	1.73	0.54
5:F:502:ARG:O	5:F:506:ILE:HG13	2.08	0.54
2:C:200:HIS:CD2	2:C:348:LEU:HG	2.43	0.54
2:C:320:LEU:HA	2:C:363:VAL:HG11	1.89	0.54
2:C:522:GLY:O	2:C:553:ARG:HA	2.07	0.54
2:C:1070:GLU:OE1	3:D:417:LEU:HB2	2.08	0.54
2:C:1111:ASN:ND2	4:E:65:ASN:HB3	2.22	0.54
3:D:797:ASN:O	3:D:801:THR:OG1	2.23	0.54
8:P:20:DG:H1'	8:P:21:DT:C5'	2.37	0.54
1:A:87:SER:HB3	1:A:142:ARG:CD	2.38	0.54
1:A:221:LEU:HD12	1:A:225:LEU:CD2	2.37	0.54
1:B:182:ARG:CD	1:B:185:GLN:HB3	2.36	0.54
2:C:229:LYS:O	2:C:230:ARG:HB3	2.07	0.54
2:C:725:PRO:HA	2:C:730:ASN:ND2	2.23	0.54
2:C:840:PRO:HG2	2:C:843:GLU:CD	2.32	0.54
3:D:811:PHE:O	3:D:814:THR:HB	2.08	0.54
5:F:317:PHE:CD2	5:F:321:ILE:HD11	2.43	0.54
7:O:3:DT:H1'	7:O:4:DT:C5'	2.38	0.54
7:O:5:DG:H1'	7:O:6:DA:H5'	1.90	0.54
1:A:55:ARG:NE	1:A:137:GLU:OE2	2.40	0.53
1:A:144:ARG:CD	1:B:1:MET:HE2	2.38	0.53
1:B:24:GLU:HB2	1:B:25:PRO:HA	1.90	0.53
1:B:63:PHE:HB2	3:D:603:SER:HB3	1.90	0.53
1:B:75:GLU:HA	1:B:78:LEU:CD2	2.37	0.53
2:C:104:SER:HB3	2:C:142:ASN:OD1	2.09	0.53
2:C:677:ARG:HD2	2:C:752:ILE:HG22	1.89	0.53
2:C:1054:GLN:NE2	3:D:89:ARG:HH22	2.06	0.53
3:D:590:THR:HG23	3:D:630:ARG:CD	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:612:TYR:HB2	3:D:635:VAL:CG1	2.33	0.53
3:D:1276:GLU:HA	3:D:1279:ARG:HB3	1.90	0.53
1:B:172:LEU:HB2	1:B:198:THR:HA	1.90	0.53
2:C:38:ARG:HA	2:C:971:ILE:HG13	1.89	0.53
2:C:220:ASP:CG	2:C:257:ILE:HG12	2.33	0.53
2:C:352:GLN:HB2	2:C:365:VAL:HG11	1.89	0.53
2:C:558:ARG:NH2	2:C:570:TYR:HB2	2.23	0.53
2:C:571:VAL:HG21	2:C:575:GLU:HB2	1.90	0.53
2:C:683:CYS:HA	2:C:752:ILE:HD11	1.89	0.53
2:C:883:ASP:O	2:C:895:ILE:HG13	2.08	0.53
2:C:900:PRO:HD2	2:C:903:ASP:OD2	2.08	0.53
3:D:114:LEU:HD23	3:D:312:MET:HE2	1.89	0.53
3:D:369:ASN:OD1	3:D:372:ARG:NH2	2.41	0.53
3:D:668:LEU:HA	3:D:671:VAL:CG2	2.39	0.53
3:D:1055:LEU:HB3	3:D:1101:ASP:HA	1.91	0.53
3:D:1166:THR:HG22	3:D:1204:ARG:O	2.08	0.53
1:B:19:SER:HB2	1:B:204:PRO:HG2	1.90	0.53
1:B:75:GLU:CD	1:B:78:LEU:HD11	2.33	0.53
2:C:113:ASP:HB2	2:C:132:PRO:HB2	1.90	0.53
2:C:118:PRO:HG2	2:C:121:GLU:HB3	1.89	0.53
2:C:610:ASN:OD1	2:C:613:ARG:NH2	2.42	0.53
2:C:624:PRO:HB3	2:C:1029:TYR:CG	2.44	0.53
2:C:672:MET:HE1	2:C:703:ALA:HB2	1.90	0.53
2:C:818:GLU:OE2	2:C:822:ARG:NE	2.41	0.53
2:C:1127:GLU:O	2:C:1131:LEU:HG	2.09	0.53
3:D:30:LYS:HE3	3:D:44:ASP:OD2	2.07	0.53
3:D:71:LYS:C	3:D:73:ILE:HG12	2.33	0.53
3:D:339:ASP:HB2	5:F:424:ASP:OD2	2.08	0.53
3:D:457:MET:HE1	3:D:473:LYS:HB2	1.89	0.53
3:D:587:TYR:O	3:D:630:ARG:HD3	2.09	0.53
3:D:1055:LEU:HB3	3:D:1101:ASP:CB	2.39	0.53
5:F:488:THR:HB	8:P:20:DG:P	2.48	0.53
6:J:27:ARG:HB2	6:J:44:PHE:O	2.08	0.53
1:A:173:LYS:O	1:A:197:GLU:HB3	2.08	0.53
1:B:21:PHE:O	1:B:194:LEU:N	2.41	0.53
1:B:170:PRO:O	1:B:199:LYS:HE3	2.08	0.53
2:C:396:MET:O	2:C:400:VAL:HG23	2.09	0.53
2:C:592:ALA:CB	2:C:630:MET:HG3	2.36	0.53
2:C:654:SER:OG	2:C:657:TYR:N	2.26	0.53
2:C:816:PRO:HB2	5:F:481:LEU:HD23	1.90	0.53
3:D:525:HIS:CG	3:D:526:PRO:HD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:642:PRO:HB3	3:D:662:TRP:CH2	2.43	0.53
3:D:673:PHE:CZ	3:D:688:MET:HG3	2.44	0.53
3:D:1046:ILE:HA	3:D:1110:GLN:HA	1.89	0.53
5:F:329:ILE:O	5:F:333:GLU:HG3	2.08	0.53
5:F:440:GLU:N	6:J:7:ARG:HA	2.23	0.53
8:P:3:DC:H1'	8:P:4:DA:H5'	1.91	0.53
1:B:78:LEU:CA	1:B:81:LYS:HE2	2.35	0.53
2:C:39:VAL:CG1	2:C:963:LEU:HD21	2.38	0.53
2:C:133:LEU:CD1	2:C:157:PHE:HB2	2.37	0.53
2:C:689:ILE:HG12	2:C:702:ILE:C	2.34	0.53
2:C:719:LEU:O	2:C:1028:MET:N	2.33	0.53
2:C:821:LEU:HD23	5:F:527:LEU:HD21	1.90	0.53
2:C:1081:ALA:HB1	3:D:554:GLU:CD	2.34	0.53
3:D:494:HIS:CD2	3:D:545:LEU:HD11	2.43	0.53
3:D:606:HIS:HB2	3:D:607:PRO:HD2	1.90	0.53
3:D:790:ARG:HB2	3:D:811:PHE:CZ	2.44	0.53
5:F:339:LYS:HD2	7:O:27:DA:C5	2.43	0.53
5:F:381:ARG:HG2	5:F:385:GLU:OE2	2.09	0.53
8:P:12:DA:H3'	8:P:12:DA:OP2	2.08	0.53
1:A:14:LEU:HD21	1:A:20:GLN:CD	2.34	0.53
2:C:68:PRO:HA	2:C:71:ARG:CB	2.39	0.53
2:C:89:VAL:HA	2:C:92:GLU:CD	2.33	0.53
2:C:376:ARG:HH21	2:C:457:ALA:HB2	1.73	0.53
2:C:519:VAL:HA	2:C:524:VAL:HA	1.90	0.53
2:C:541:VAL:HG22	2:C:578:TYR:CB	2.33	0.53
2:C:560:LEU:HD22	2:C:568:VAL:CG1	2.39	0.53
2:C:759:ALA:O	2:C:866:ASN:N	2.41	0.53
2:C:801:ILE:HD13	2:C:838:LYS:CG	2.35	0.53
3:D:35:ASN:O	3:D:39:LEU:HD23	2.09	0.53
3:D:206:ARG:O	3:D:209:ARG:HG3	2.09	0.53
3:D:1085:ARG:HB2	3:D:1113:GLU:CD	2.34	0.53
3:D:1248:LEU:HD12	3:D:1249:LYS:N	2.23	0.53
5:F:386:LEU:HB2	5:F:394:PRO:HG2	1.91	0.53
1:A:220:GLY:HA2	1:A:223:ARG:CB	2.39	0.53
2:C:688:PRO:HA	2:C:703:ALA:CB	2.39	0.53
2:C:717:LYS:O	2:C:1029:TYR:HA	2.08	0.53
2:C:1072:GLU:HG2	3:D:509:ILE:HG13	1.89	0.53
2:C:1118:PRO:HG2	2:C:1121:PHE:CB	2.38	0.53
3:D:134:TYR:CB	3:D:235:ILE:HB	2.38	0.53
3:D:165:GLN:NE2	3:D:169:GLU:OE2	2.41	0.53
3:D:284:GLY:O	3:D:289:LYS:HD3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:334:ARG:HH12	5:F:419:GLU:CA	2.20	0.53
3:D:672:MET:O	3:D:675:GLU:HB2	2.08	0.53
3:D:1081:SER:HB2	3:D:1084:GLN:HG2	1.90	0.53
3:D:1182:ASP:OD1	3:D:1183:ARG:N	2.41	0.53
3:D:1270:ILE:HG12	4:E:108:GLU:HA	1.90	0.53
5:F:405:ILE:HD12	5:F:409:LYS:CG	2.39	0.53
8:P:25:DG:H2''	8:P:26:DC:H6	1.74	0.53
1:A:43:LEU:HD23	2:C:902:GLU:CA	2.38	0.53
1:A:221:LEU:CD2	1:B:7:PRO:HG2	2.39	0.53
1:B:30:PHE:HB3	1:B:34:LEU:HD23	1.90	0.53
1:B:146:TYR:CB	3:D:620:MET:HE2	2.38	0.53
1:B:180:ALA:O	1:B:183:VAL:HG13	2.09	0.53
2:C:563:ARG:HG3	2:C:565:ALA:H	1.74	0.53
2:C:600:ASP:CG	2:C:927:ASN:HA	2.34	0.53
2:C:689:ILE:HD11	2:C:701:VAL:HG12	1.90	0.53
2:C:772:ASP:O	2:C:773:ILE:HD13	2.09	0.53
2:C:1100:VAL:HG12	5:F:447:ALA:HB1	1.91	0.53
3:D:114:LEU:CD2	3:D:312:MET:HE2	2.39	0.53
3:D:1043:LYS:HA	3:D:1115:SER:O	2.08	0.53
4:E:64:ILE:O	4:E:67:TYR:HB3	2.09	0.53
1:B:50:ALA:O	1:B:140:VAL:HG13	2.08	0.53
2:C:161:THR:OG1	2:C:165:THR:N	2.23	0.53
2:C:403:ARG:HD3	2:C:407:GLN:NE2	2.23	0.53
2:C:674:LYS:HZ2	2:C:686:GLN:N	2.05	0.53
2:C:1007:LYS:HG2	2:C:1024:THR:N	2.24	0.53
2:C:1008:ALA:O	2:C:1022:PRO:HA	2.09	0.53
2:C:1068:PHE:CB	3:D:422:VAL:CG2	2.81	0.53
3:D:16:THR:O	3:D:20:ILE:HG13	2.08	0.53
3:D:58:TRP:O	3:D:66:LYS:HA	2.09	0.53
3:D:58:TRP:HD1	3:D:82:VAL:HG22	1.74	0.53
3:D:147:GLU:OE2	3:D:150:THR:OG1	2.23	0.53
3:D:876:ARG:O	3:D:880:VAL:HG23	2.09	0.53
3:D:1251:ASN:HB3	3:D:1256:LYS:O	2.09	0.53
3:D:1271:ALA:HB3	4:E:107:THR:OG1	2.08	0.53
5:F:276:ALA:HA	5:F:279:ARG:HG2	1.90	0.53
7:O:19:DA:H2'	7:O:20:DT:C7	2.39	0.53
1:A:83:LEU:HD23	1:A:123:MET:SD	2.49	0.53
2:C:65:ILE:HG23	2:C:112:PHE:CE2	2.43	0.53
2:C:208:ARG:HG2	2:C:307:ASP:O	2.09	0.53
2:C:334:THR:HG23	2:C:337:ASP:N	2.17	0.53
2:C:548:ILE:HG12	2:C:554:PHE:HE1	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:816:PRO:HA	2:C:819:ARG:CZ	2.39	0.53
2:C:1124:LEU:HD23	11:D:1404:C0L:C01	2.39	0.53
3:D:35:ASN:HD22	3:D:38:THR:HG22	1.73	0.53
3:D:107:PHE:HB2	3:D:114:LEU:HD12	1.91	0.53
3:D:119:ASP:C	3:D:120:LEU:HD12	2.34	0.53
3:D:887:ARG:HD2	3:D:972:THR:O	2.09	0.53
5:F:353:GLN:HG3	7:O:26:DT:O4	2.08	0.53
6:J:52:GLY:HA2	6:J:64:LEU:HD12	1.91	0.53
6:J:80:THR:OG1	6:J:82:TRP:HB3	2.09	0.53
6:J:107:SER:HA	6:J:111:GLY:C	2.33	0.53
8:P:8:DT:H2''	8:P:9:DT:O5'	2.09	0.53
1:A:110:ILE:O	1:A:112:PRO:HD3	2.08	0.52
1:A:220:GLY:HA2	1:A:223:ARG:HB3	1.90	0.52
2:C:295:LEU:HG	2:C:299:LEU:HD11	1.91	0.52
3:D:480:ARG:O	3:D:483:VAL:HG12	2.09	0.52
3:D:573:PRO:C	3:D:574:LEU:HD12	2.34	0.52
3:D:1086:LEU:HG	3:D:1099:LEU:HD23	1.91	0.52
3:D:1198:GLY:C	3:D:1200:PRO:HD3	2.34	0.52
1:B:15:THR:CG2	1:B:18:ARG:HB3	2.40	0.52
1:B:93:VAL:HG12	1:B:140:VAL:O	2.10	0.52
2:C:152:VAL:HG11	2:C:418:ILE:HD13	1.91	0.52
2:C:280:LYS:O	2:C:283:PRO:HD3	2.09	0.52
2:C:993:LEU:HD12	2:C:993:LEU:O	2.09	0.52
2:C:1050:SER:OG	2:C:1051:MET:N	2.40	0.52
3:D:49:GLU:O	3:D:53:GLY:N	2.39	0.52
3:D:104:ILE:HG23	3:D:105:TRP:CD1	2.44	0.52
3:D:282:ARG:HG3	3:D:283:ASN:OD1	2.09	0.52
3:D:548:SER:O	3:D:552:GLN:HG3	2.09	0.52
4:E:60:ARG:HH11	4:E:63:GLN:HB2	1.74	0.52
5:F:459:GLN:O	5:F:463:VAL:HG23	2.09	0.52
1:A:52:THR:HB	1:A:139:VAL:CG1	2.39	0.52
1:B:7:PRO:HA	1:B:25:PRO:CD	2.37	0.52
1:B:53:SER:HB2	1:B:162:ILE:C	2.34	0.52
2:C:117:ALA:HB3	2:C:122:CYS:SG	2.49	0.52
2:C:153:PHE:CE2	2:C:155:GLY:HA2	2.44	0.52
2:C:334:THR:CG2	2:C:336:GLU:HB3	2.39	0.52
2:C:540:VAL:HG13	2:C:576:VAL:HA	1.91	0.52
3:D:53:GLY:O	3:D:88:ARG:NH1	2.35	0.52
3:D:548:SER:OG	3:D:551:ALA:N	2.23	0.52
3:D:1086:LEU:HD23	3:D:1099:LEU:HG	1.91	0.52
3:D:1274:PRO:HA	4:E:104:LEU:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1275:THR:HA	4:E:105:GLU:OE1	2.09	0.52
1:B:76:ILE:O	1:B:80:LEU:HG	2.09	0.52
1:B:147:VAL:CG1	1:B:166:SER:HB2	2.39	0.52
2:C:55:ASP:HA	2:C:58:THR:HG1	1.74	0.52
2:C:77:ARG:HG2	2:C:77:ARG:O	2.08	0.52
2:C:160:MET:SD	2:C:164:GLY:HA2	2.50	0.52
2:C:206:PRO:HG3	2:C:306:TYR:CE1	2.44	0.52
2:C:323:HIS:ND1	2:C:326:GLU:OE2	2.36	0.52
2:C:658:ILE:HD11	2:C:688:PRO:CB	2.36	0.52
2:C:824:ILE:CG1	5:F:511:MET:HE1	2.40	0.52
2:C:881:ASP:HA	2:C:895:ILE:HG21	1.91	0.52
2:C:1073:CYS:O	2:C:1076:MET:N	2.42	0.52
3:D:100:PRO:HG2	3:D:262:GLN:OE1	2.09	0.52
3:D:704:TYR:HB3	3:D:705:PRO:HD2	1.91	0.52
3:D:820:MET:CE	3:D:837:LYS:HA	2.34	0.52
3:D:1086:LEU:HD23	3:D:1099:LEU:CG	2.40	0.52
4:E:30:ASP:OD1	4:E:31:THR:N	2.42	0.52
5:F:302:LEU:HB2	7:O:31:DT:C2	2.44	0.52
6:J:34:THR:HG21	6:J:38:GLU:HB2	1.91	0.52
6:J:54:TRP:O	6:J:62:GLY:N	2.39	0.52
1:A:49:ALA:HA	1:A:142:ARG:HA	1.92	0.52
1:B:119:HIS:O	1:B:200:ASN:ND2	2.40	0.52
2:C:134:PHE:HD1	2:C:153:PHE:HA	1.74	0.52
2:C:243:TRP:HE3	2:C:247:GLN:HB3	1.75	0.52
2:C:1106:ILE:HG21	3:D:454:PRO:HB2	1.92	0.52
3:D:70:PHE:HB3	3:D:73:ILE:HD11	1.92	0.52
3:D:91:ARG:O	3:D:321:PRO:HG3	2.10	0.52
3:D:126:GLU:HG3	3:D:130:TYR:CD2	2.45	0.52
3:D:592:VAL:HB	3:D:595:ASP:OD2	2.09	0.52
3:D:596:THR:HB	3:D:628:SER:N	2.23	0.52
3:D:674:ASN:ND2	3:D:684:VAL:H	2.07	0.52
3:D:1152:LYS:HA	3:D:1155:GLU:CD	2.34	0.52
6:J:107:SER:HA	6:J:111:GLY:O	2.08	0.52
7:O:24:DG:H1'	7:O:25:DC:C5'	2.39	0.52
1:A:32:TYR:HB3	2:C:1016:GLY:O	2.09	0.52
1:B:1:MET:HB2	1:B:232:ILE:HG23	1.92	0.52
1:B:52:THR:O	1:B:164:VAL:HG22	2.08	0.52
2:C:38:ARG:CD	2:C:973:SER:HB3	2.38	0.52
2:C:192:ASP:HB2	2:C:199:LEU:CD1	2.31	0.52
2:C:221:THR:HA	2:C:261:THR:HG22	1.91	0.52
2:C:272:GLU:HA	2:C:275:LEU:CD2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1081:ALA:HB1	3:D:554:GLU:HB3	1.92	0.52
3:D:192:ASP:O	3:D:196:LYS:HG3	2.10	0.52
3:D:342:ASP:O	3:D:346:ARG:HG3	2.10	0.52
3:D:812:THR:O	3:D:816:THR:HG23	2.10	0.52
3:D:1085:ARG:HD3	3:D:1113:GLU:OE2	2.08	0.52
3:D:1270:ILE:HG23	4:E:107:THR:O	2.09	0.52
5:F:445:VAL:HG12	5:F:447:ALA:H	1.75	0.52
1:A:22:VAL:HG23	1:A:192:LEU:O	2.09	0.52
2:C:211:TRP:O	2:C:227:ASP:N	2.43	0.52
2:C:277:ILE:HD13	2:C:280:LYS:HZ1	1.73	0.52
2:C:313:ARG:CD	2:C:331:SER:HA	2.37	0.52
2:C:727:GLU:H	3:D:725:THR:HG22	1.74	0.52
2:C:840:PRO:HG2	2:C:843:GLU:OE2	2.08	0.52
3:D:138:SER:N	3:D:253:THR:OG1	2.43	0.52
4:E:59:LYS:O	4:E:63:GLN:HG3	2.09	0.52
6:J:23:ASP:C	6:J:24:LEU:HD22	2.35	0.52
7:O:16:DT:H2''	7:O:17:DA:O5'	2.09	0.52
8:P:11:DA:H1'	8:P:12:DA:H5'	1.90	0.52
1:A:18:ARG:HB2	1:A:196:VAL:O	2.09	0.52
1:A:226:ASN:ND2	1:B:205:ARG:HG3	2.23	0.52
2:C:195:THR:HG22	2:C:197:LYS:HG3	1.92	0.52
2:C:563:ARG:HB3	2:C:567:GLU:N	2.24	0.52
2:C:707:CYS:HB3	2:C:715:LEU:HD23	1.92	0.52
3:D:35:ASN:ND2	3:D:38:THR:H	2.07	0.52
3:D:181:LEU:HD21	3:D:198:ARG:HG2	1.91	0.52
3:D:354:LEU:HB2	3:D:370:GLU:CG	2.37	0.52
3:D:866:ARG:HH12	3:D:1011:THR:HG22	1.74	0.52
3:D:913:ASP:OD1	3:D:914:PRO:HD2	2.10	0.52
3:D:913:ASP:OD2	3:D:915:TYR:N	2.43	0.52
3:D:1047:ALA:HB3	3:D:1109:GLN:N	2.24	0.52
3:D:1052:ARG:HB2	3:D:1102:GLY:C	2.35	0.52
3:D:1278:ALA:HB1	4:E:103:LEU:HD23	1.92	0.52
5:F:447:ALA:O	5:F:450:ALA:N	2.42	0.52
6:J:102:LEU:HD21	6:J:106:ARG:NH2	2.25	0.52
1:A:177:LYS:O	1:A:192:LEU:HD12	2.10	0.52
1:B:85:VAL:HA	1:B:117:THR:O	2.10	0.52
2:C:248:ILE:O	2:C:252:PHE:N	2.40	0.52
2:C:303:GLU:HB3	2:C:332:THR:CB	2.40	0.52
2:C:320:LEU:CB	2:C:322:LEU:HG	2.39	0.52
2:C:322:LEU:CD2	2:C:357:VAL:HG11	2.40	0.52
2:C:380:THR:O	2:C:383:GLU:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:146:ASN:OD1	3:D:147:GLU:N	2.43	0.52
3:D:446:LEU:O	3:D:449:LEU:HB3	2.09	0.52
3:D:888:GLU:O	3:D:976:ALA:N	2.36	0.52
3:D:928:ASP:HA	3:D:939:GLU:HA	1.91	0.52
5:F:479:PHE:HD2	5:F:481:LEU:HD11	1.74	0.52
1:A:66:VAL:HB	1:A:69:VAL:CG2	2.39	0.52
1:A:66:VAL:HB	1:A:69:VAL:HG21	1.90	0.52
1:B:78:LEU:HA	1:B:81:LYS:HG3	1.92	0.52
2:C:111:ARG:HG3	2:C:134:PHE:HB2	1.92	0.52
2:C:222:VAL:HG23	2:C:233:PRO:HA	1.92	0.52
2:C:344:TYR:CZ	2:C:365:VAL:HA	2.44	0.52
2:C:868:LEU:HD22	2:C:869:VAL:H	1.75	0.52
2:C:883:ASP:OD1	2:C:1037:VAL:N	2.43	0.52
3:D:72:GLY:O	6:J:43:PRO:HB2	2.10	0.52
3:D:232:LYS:O	3:D:234:LEU:HD12	2.09	0.52
3:D:566:LEU:HD23	3:D:573:PRO:CA	2.40	0.52
3:D:901:LEU:HD12	3:D:957:ILE:O	2.10	0.52
3:D:970:THR:OG1	3:D:973:GLY:O	2.27	0.52
3:D:1055:LEU:HA	3:D:1064:ILE:CG2	2.30	0.52
5:F:400:ALA:HB2	5:F:407:PRO:HA	1.92	0.52
1:A:23:ILE:O	1:A:26:LEU:HD11	2.10	0.51
1:B:30:PHE:HA	1:B:33:THR:HG23	1.91	0.51
2:C:719:LEU:O	2:C:1027:TYR:HA	2.10	0.51
2:C:747:LEU:CB	2:C:879:ILE:HB	2.40	0.51
2:C:759:ALA:HB2	2:C:867:GLU:HB3	1.92	0.51
3:D:135:VAL:HG23	3:D:234:LEU:HA	1.92	0.51
3:D:380:ALA:O	3:D:384:ASN:HB2	2.10	0.51
3:D:908:GLY:O	3:D:909:THR:HG23	2.10	0.51
3:D:1208:MET:SD	3:D:1213:ALA:HA	2.50	0.51
5:F:299:ASN:HA	7:O:31:DT:N3	2.24	0.51
7:O:28:DT:H5'	7:O:28:DT:H6	1.74	0.51
1:A:49:ALA:CB	1:A:142:ARG:HA	2.41	0.51
1:B:56:ILE:HG12	1:B:136:VAL:CG2	2.40	0.51
1:B:86:SER:O	1:B:117:THR:HG22	2.11	0.51
2:C:89:VAL:O	2:C:93:LEU:HD23	2.09	0.51
2:C:624:PRO:HB3	2:C:1029:TYR:CD1	2.45	0.51
2:C:819:ARG:NH2	5:F:479:PHE:O	2.43	0.51
2:C:1092:LYS:NZ	3:D:545:LEU:O	2.43	0.51
3:D:135:VAL:HG23	3:D:233:GLN:C	2.35	0.51
3:D:285:LYS:N	3:D:289:LYS:HB2	2.24	0.51
3:D:322:PRO:HB3	3:D:325:ARG:NH2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:478:ARG:HB3	3:D:480:ARG:NE	2.25	0.51
3:D:567:SER:O	3:D:571:GLY:N	2.36	0.51
3:D:626:VAL:HG12	3:D:627:LEU:HG	1.92	0.51
4:E:92:LEU:O	4:E:96:LEU:HG	2.09	0.51
5:F:342:LYS:CB	7:O:29:DA:H3'	2.40	0.51
1:B:75:GLU:O	1:B:78:LEU:HG	2.11	0.51
2:C:347:ARG:CB	2:C:352:GLN:HG3	2.23	0.51
2:C:1072:GLU:HG2	3:D:509:ILE:CD1	2.41	0.51
3:D:246:ASP:OD1	3:D:247:ARG:N	2.43	0.51
3:D:416:ASN:OD1	3:D:417:LEU:N	2.39	0.51
3:D:736:VAL:HG12	3:D:841:ARG:HD2	1.92	0.51
3:D:1182:ASP:HB3	3:D:1185:GLU:CB	2.41	0.51
5:F:415:GLN:C	5:F:418:ARG:HD3	2.30	0.51
1:A:14:LEU:HD21	1:A:20:GLN:HG3	1.92	0.51
1:A:177:LYS:HE3	1:A:193:ILE:CD1	2.40	0.51
2:C:167:ILE:HA	2:C:171:THR:O	2.10	0.51
2:C:208:ARG:NH1	2:C:307:ASP:OD2	2.43	0.51
2:C:355:MET:O	2:C:362:GLU:HA	2.10	0.51
2:C:793:GLY:O	2:C:846:LYS:HD2	2.10	0.51
2:C:1007:LYS:CE	2:C:1022:PRO:HG2	2.40	0.51
2:C:1020:PRO:HG2	2:C:1021:TYR:CD2	2.46	0.51
3:D:444:PRO:HG2	3:D:447:MET:CB	2.40	0.51
3:D:459:ARG:HH11	3:D:462:ASP:HB2	1.76	0.51
3:D:683:PHE:CE2	3:D:685:ASN:HB2	2.44	0.51
3:D:712:THR:O	3:D:716:LEU:HG	2.10	0.51
3:D:1065:THR:CG2	3:D:1074:GLU:HB3	2.39	0.51
3:D:1180:LEU:HD22	3:D:1206:VAL:HG21	1.92	0.51
3:D:1272:VAL:HG21	4:E:56:TYR:HA	1.92	0.51
4:E:83:VAL:HG12	4:E:98:GLU:HG3	1.93	0.51
5:F:278:ARG:O	5:F:282:MET:HG2	2.11	0.51
5:F:499:THR:HG23	7:O:3:DT:P	2.50	0.51
5:F:503:ILE:HD13	5:F:506:ILE:CD1	2.40	0.51
6:J:20:ARG:HH11	6:J:23:ASP:HB3	1.75	0.51
6:J:101:ARG:CD	6:J:104:LEU:HD13	2.35	0.51
1:A:26:LEU:CB	1:A:190:ASP:HB2	2.39	0.51
1:A:71:GLU:OE2	1:A:127:THR:HG22	2.10	0.51
1:A:149:ALA:HB1	1:A:163:PRO:HB2	1.93	0.51
1:A:205:ARG:HD3	1:A:206:ASP:N	2.25	0.51
1:B:85:VAL:HB	1:B:118:VAL:HA	1.93	0.51
2:C:909:ASP:OD2	2:C:1001:LEU:HD11	2.11	0.51
3:D:88:ARG:O	3:D:321:PRO:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:373:MET:HE3	5:F:318:LEU:CB	2.40	0.51
3:D:532:PHE:CE2	3:D:541:MET:HE1	2.45	0.51
3:D:768:ASP:HA	3:D:771:ASN:ND2	2.22	0.51
3:D:929:ALA:C	3:D:936:VAL:HG13	2.35	0.51
3:D:1065:THR:HG23	3:D:1075:VAL:C	2.36	0.51
5:F:241:LEU:HD22	5:F:245:GLU:CD	2.35	0.51
5:F:342:LYS:HG2	7:O:30:DC:OP2	2.10	0.51
6:J:64:LEU:HD23	6:J:65:ILE:N	2.26	0.51
1:A:54:ILE:HB	1:A:137:GLU:O	2.11	0.51
2:C:224:VAL:HB	2:C:232:GLN:CB	2.40	0.51
2:C:657:TYR:HA	2:C:670:TYR:O	2.10	0.51
2:C:1008:ALA:H	2:C:1023:VAL:H	1.57	0.51
2:C:1134:ASN:N	3:D:13:GLY:O	2.43	0.51
3:D:614:SER:OG	3:D:617:GLU:N	2.34	0.51
3:D:824:VAL:HG11	3:D:851:ILE:HG22	1.92	0.51
3:D:1169:ASP:HB2	3:D:1202:ALA:HB3	1.92	0.51
4:E:87:LEU:HD13	4:E:88:GLN:HB2	1.92	0.51
5:F:262:LEU:O	5:F:265:GLU:HB2	2.11	0.51
1:A:149:ALA:HB1	1:A:163:PRO:CB	2.41	0.51
1:B:48:GLY:O	1:B:143:GLY:N	2.33	0.51
2:C:132:PRO:HB3	2:C:153:PHE:CE1	2.45	0.51
2:C:226:ILE:O	2:C:229:LYS:HB2	2.11	0.51
2:C:484:CYS:CB	2:C:588:SER:HB3	2.41	0.51
2:C:488:THR:CG2	2:C:606:LEU:HD11	2.41	0.51
2:C:754:GLU:HA	2:C:871:VAL:O	2.11	0.51
2:C:1109:GLY:CA	3:D:458:LYS:HE3	2.41	0.51
3:D:31:PRO:HB3	3:D:348:ILE:HB	1.93	0.51
3:D:370:GLU:OE1	5:F:322:GLN:HG3	2.10	0.51
3:D:383:ASP:OD2	3:D:386:ARG:NH2	2.44	0.51
3:D:882:GLN:HG3	3:D:883:ASP:CG	2.35	0.51
3:D:1052:ARG:CA	3:D:1104:HIS:HA	2.36	0.51
3:D:1130:VAL:O	3:D:1134:LEU:HG	2.11	0.51
3:D:1169:ASP:HB2	3:D:1202:ALA:CB	2.40	0.51
3:D:1269:ASN:CB	4:E:109:GLY:HA3	2.40	0.51
5:F:286:ARG:O	5:F:290:ARG:HG3	2.10	0.51
5:F:522:VAL:HG23	5:F:523:LEU:CD2	2.40	0.51
6:J:64:LEU:CD2	6:J:66:GLU:H	2.24	0.51
1:A:5:GLN:HE21	1:A:25:PRO:HG3	1.74	0.51
1:A:27:GLU:OE1	1:A:28:PRO:HD2	2.11	0.51
1:A:80:LEU:HD21	1:A:125:ILE:HG23	1.93	0.51
1:A:175:THR:HB	2:C:910:GLY:HA3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:28:PRO:HA	1:B:190:ASP:OD2	2.10	0.51
1:B:55:ARG:HB3	1:B:161:ARG:HA	1.93	0.51
2:C:140:ILE:CG1	2:C:147:ILE:HA	2.40	0.51
2:C:185:VAL:HG12	2:C:204:VAL:CG2	2.40	0.51
2:C:224:VAL:HB	2:C:232:GLN:C	2.36	0.51
2:C:241:LEU:HB3	2:C:243:TRP:HD1	1.74	0.51
2:C:357:VAL:CG2	2:C:358:PRO:HD2	2.41	0.51
2:C:641:VAL:CG2	2:C:708:THR:HG21	2.41	0.51
2:C:1137:VAL:HG21	3:D:7:PHE:CD1	2.38	0.51
3:D:317:VAL:HG12	3:D:318:PRO:O	2.10	0.51
3:D:334:ARG:HH12	5:F:419:GLU:C	2.19	0.51
3:D:668:LEU:O	3:D:671:VAL:HB	2.10	0.51
3:D:877:LEU:O	3:D:880:VAL:HB	2.10	0.51
5:F:283:TRP:HA	5:F:286:ARG:HE	1.76	0.51
5:F:310:TYR:HD2	5:F:355:ILE:HG21	1.75	0.51
1:A:2:LEU:HD23	1:B:143:GLY:HA2	1.93	0.51
1:A:22:VAL:HA	1:A:192:LEU:O	2.11	0.51
2:C:285:GLU:CD	2:C:286:PRO:HD2	2.35	0.51
2:C:400:VAL:O	2:C:404:MET:N	2.42	0.51
2:C:587:VAL:HG23	2:C:591:THR:HG22	1.93	0.51
2:C:633:ARG:HH11	2:C:636:ILE:HG13	1.75	0.51
2:C:633:ARG:CA	2:C:636:ILE:HG12	2.41	0.51
2:C:854:SER:HA	2:C:867:GLU:HA	1.93	0.51
3:D:545:LEU:HD12	3:D:546:PRO:CD	2.32	0.51
3:D:820:MET:HG3	3:D:837:LYS:HA	1.93	0.51
3:D:866:ARG:NE	3:D:1008:THR:O	2.43	0.51
3:D:912:ARG:HG3	3:D:916:ILE:HD12	1.93	0.51
3:D:1172:SER:OG	3:D:1199:GLU:HG3	2.11	0.51
3:D:1222:SER:O	3:D:1225:SER:OG	2.28	0.51
8:P:8:DT:H2'	8:P:9:DT:H72	1.93	0.51
1:B:134:LEU:HD11	1:B:136:VAL:CG2	2.40	0.51
1:B:170:PRO:HA	1:B:199:LYS:HE3	1.92	0.51
2:C:33:PRO:HB2	2:C:700:GLN:CD	2.36	0.51
2:C:354:THR:N	2:C:365:VAL:HG23	2.26	0.51
2:C:356:THR:HA	2:C:362:GLU:HA	1.93	0.51
2:C:454:ARG:O	2:C:455:LEU:HD23	2.11	0.51
3:D:222:ILE:HD11	3:D:244:LEU:CB	2.41	0.51
3:D:372:ARG:O	3:D:376:GLU:HG3	2.11	0.51
3:D:497:LEU:O	3:D:543:VAL:HA	2.11	0.51
3:D:566:LEU:HB3	3:D:571:GLY:O	2.11	0.51
4:E:38:PRO:CG	4:E:43:LEU:HD21	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:347:ALA:O	5:F:351:ILE:HG13	2.10	0.51
1:A:82:SER:O	1:A:123:MET:HE1	2.11	0.50
1:B:95:MET:HE3	1:B:138:LEU:C	2.36	0.50
2:C:61:PHE:CE2	2:C:65:ILE:HD11	2.46	0.50
2:C:113:ASP:O	2:C:131:ALA:HB1	2.10	0.50
2:C:275:LEU:HD12	2:C:276:ASP:N	2.27	0.50
2:C:484:CYS:SG	2:C:588:SER:N	2.84	0.50
2:C:583:PRO:HG2	2:C:584:ARG:NE	2.26	0.50
2:C:1011:PHE:CE1	2:C:1018:PRO:HB3	2.42	0.50
2:C:1100:VAL:HG12	5:F:447:ALA:CB	2.41	0.50
2:C:1131:LEU:HD21	3:D:402:LEU:HB3	1.92	0.50
3:D:177:LEU:HA	3:D:180:ASP:OD2	2.11	0.50
3:D:190:LYS:HZ3	3:D:192:ASP:HB3	1.75	0.50
3:D:222:ILE:HD11	3:D:244:LEU:HA	1.93	0.50
3:D:222:ILE:CG1	3:D:244:LEU:HD12	2.38	0.50
3:D:262:GLN:HG2	3:D:266:GLU:OE2	2.11	0.50
3:D:813:GLN:O	3:D:816:THR:OG1	2.27	0.50
3:D:896:GLY:O	3:D:961:LYS:HG3	2.11	0.50
3:D:1061:PHE:HE2	3:D:1063:LYS:HE2	1.75	0.50
3:D:1085:ARG:HB2	3:D:1113:GLU:OE2	2.11	0.50
3:D:1231:ARG:HA	3:D:1234:THR:HG22	1.92	0.50
5:F:250:ALA:O	5:F:254:GLU:HG3	2.10	0.50
6:J:40:PHE:CZ	6:J:58:ASN:HB2	2.46	0.50
1:B:3:ILE:CD1	1:B:234:ILE:HG12	2.41	0.50
1:B:41:THR:O	1:B:45:SER:N	2.44	0.50
2:C:548:ILE:HA	2:C:554:PHE:HD1	1.75	0.50
2:C:571:VAL:HG22	2:C:572:PRO:O	2.11	0.50
2:C:612:GLN:HA	2:C:1031:MET:HE1	1.93	0.50
2:C:756:GLU:CG	2:C:868:LEU:HD21	2.41	0.50
3:D:148:LEU:O	3:D:148:LEU:HD13	2.11	0.50
3:D:212:ALA:HA	3:D:215:GLU:CG	2.42	0.50
3:D:497:LEU:C	3:D:498:LEU:HD12	2.36	0.50
3:D:940:ARG:HH11	3:D:963:ARG:HH21	1.58	0.50
4:E:47:VAL:HG11	4:E:53:LEU:HD23	1.93	0.50
5:F:410:VAL:O	5:F:414:GLN:HG3	2.11	0.50
6:J:54:TRP:N	6:J:62:GLY:O	2.44	0.50
1:A:117:THR:HG23	1:A:119:HIS:CE1	2.46	0.50
1:A:215:LEU:HD12	1:A:219:PHE:CE2	2.46	0.50
1:B:223:ARG:HE	1:B:227:VAL:HG13	1.76	0.50
2:C:128:THR:CB	2:C:169:ASN:H	2.24	0.50
2:C:202:VAL:CG1	2:C:214:PHE:HB2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:224:VAL:HG21	2:C:234:VAL:N	2.26	0.50
2:C:732:GLU:OE2	3:D:535:ASP:HA	2.11	0.50
2:C:1137:VAL:HA	3:D:10:LEU:HD12	1.93	0.50
3:D:58:TRP:CA	3:D:82:VAL:HG23	2.41	0.50
3:D:136:ILE:CG1	3:D:229:LEU:HD11	2.41	0.50
3:D:412:ARG:N	3:D:1227:GLN:HG3	2.26	0.50
3:D:1273:GLN:O	4:E:105:GLU:N	2.43	0.50
5:F:387:LEU:O	5:F:391:GLY:N	2.43	0.50
1:A:137:GLU:C	1:A:138:LEU:HD12	2.36	0.50
1:A:172:LEU:HB3	1:A:197:GLU:HG2	1.93	0.50
1:B:104:GLU:CD	1:B:127:THR:HG22	2.36	0.50
2:C:200:HIS:CG	2:C:349:HIS:HB2	2.46	0.50
2:C:230:ARG:HH21	5:F:212:LEU:HA	1.76	0.50
2:C:475:VAL:HG23	3:D:854:HIS:ND1	2.27	0.50
2:C:1066:GLN:HG3	3:D:427:ARG:NH2	2.26	0.50
3:D:181:LEU:HD21	3:D:198:ARG:CG	2.41	0.50
3:D:748:HIS:CE1	3:D:752:ARG:HD2	2.46	0.50
3:D:1274:PRO:HG2	4:E:79:VAL:HG11	1.94	0.50
5:F:511:MET:HE3	5:F:515:ARG:NH2	2.26	0.50
1:A:95:MET:CG	1:A:138:LEU:HD22	2.42	0.50
1:B:39:ARG:HD2	1:B:176:TYR:CE1	2.47	0.50
1:B:77:ILE:O	1:B:81:LYS:HG3	2.11	0.50
2:C:861:LEU:HD23	2:C:865:VAL:CG1	2.41	0.50
2:C:904:MET:HG3	2:C:913:VAL:HG22	1.92	0.50
3:D:34:ILE:HG13	3:D:40:LYS:O	2.12	0.50
3:D:75:CYS:SG	3:D:77:ARG:HB2	2.52	0.50
3:D:353:ARG:O	3:D:357:LEU:HG	2.10	0.50
3:D:434:PRO:O	3:D:717:LYS:NZ	2.39	0.50
3:D:566:LEU:HD23	3:D:573:PRO:HA	1.92	0.50
7:O:1:DG:H2''	7:O:2:DC:O5'	2.11	0.50
1:B:21:PHE:HB2	1:B:194:LEU:CB	2.30	0.50
1:B:32:TYR:CZ	1:B:178:VAL:HG21	2.46	0.50
1:B:55:ARG:HD3	1:B:137:GLU:OE1	2.12	0.50
2:C:277:ILE:HA	2:C:280:LYS:NZ	2.27	0.50
2:C:413:THR:HG23	2:C:416:THR:H	1.76	0.50
2:C:731:TYR:H	2:C:734:ALA:HB3	1.75	0.50
2:C:736:ILE:CD1	2:C:916:ILE:HB	2.42	0.50
2:C:903:ASP:OD1	2:C:903:ASP:N	2.43	0.50
3:D:103:HIS:HB3	3:D:106:TYR:CD2	2.45	0.50
3:D:322:PRO:HA	3:D:325:ARG:CG	2.42	0.50
3:D:1181:ILE:HG13	3:D:1182:ASP:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:513:LYS:HD2	5:F:516:HIS:CE1	2.46	0.50
6:J:97:LEU:O	6:J:100:GLU:HB3	2.12	0.50
7:O:19:DA:H2''	7:O:20:DT:O5'	2.12	0.50
2:C:113:ASP:OD2	2:C:132:PRO:HB2	2.11	0.50
2:C:188:ASP:O	2:C:201:SER:N	2.45	0.50
2:C:347:ARG:CD	2:C:355:MET:HG3	2.41	0.50
2:C:540:VAL:CG2	2:C:576:VAL:HA	2.42	0.50
2:C:762:THR:HG23	2:C:764:LEU:N	2.27	0.50
2:C:1055:GLN:HE22	3:D:420:LYS:HD3	1.77	0.50
3:D:58:TRP:CE2	3:D:68:VAL:HG13	2.47	0.50
3:D:498:LEU:O	3:D:509:ILE:HG12	2.12	0.50
3:D:922:ALA:HB1	3:D:981:ARG:HB3	1.92	0.50
3:D:981:ARG:HG2	3:D:982:SER:O	2.12	0.50
5:F:381:ARG:O	5:F:385:GLU:HG3	2.11	0.50
5:F:408:GLU:O	5:F:412:GLU:HG3	2.12	0.50
1:A:88:GLU:HG2	1:A:115:GLY:O	2.11	0.50
1:B:60:LEU:HD12	1:B:61:HIS:HD2	1.77	0.50
2:C:102:SER:HB2	2:C:143:ASN:ND2	2.27	0.50
2:C:426:ALA:HA	2:C:429:GLU:CG	2.42	0.50
2:C:507:ASN:CB	2:C:511:PHE:HB2	2.41	0.50
2:C:822:ARG:CD	2:C:827:GLU:HB2	2.41	0.50
3:D:334:ARG:NH1	5:F:418:ARG:CA	2.74	0.50
3:D:406:LEU:CB	3:D:409:LYS:HB2	2.38	0.50
3:D:420:LYS:NZ	11:D:1404:C0L:C16	2.74	0.50
3:D:646:ILE:O	3:D:649:GLU:HB3	2.12	0.50
3:D:917:GLU:HG2	3:D:921:TYR:CE2	2.46	0.50
5:F:348:THR:CA	5:F:351:ILE:HD12	2.37	0.50
8:P:11:DA:H1'	8:P:12:DA:C5'	2.41	0.50
1:A:223:ARG:HD2	1:B:213:LYS:HA	1.94	0.50
1:B:74:THR:HA	1:B:77:ILE:CD1	2.29	0.50
2:C:38:ARG:HB2	2:C:971:ILE:HD12	1.94	0.50
2:C:240:ALA:HA	2:C:274:LEU:HD22	1.94	0.50
2:C:704:ASP:OD2	2:C:710:ASP:N	2.45	0.50
2:C:1103:TYR:HE2	5:F:448:VAL:HG23	1.75	0.50
2:C:1138:LEU:HA	3:D:-1:GLY:N	2.26	0.50
3:D:743:LYS:HA	3:D:746:LEU:CD1	2.30	0.50
3:D:1061:PHE:HA	3:D:1082:LYS:N	2.27	0.50
6:J:31:ARG:HG2	6:J:41:GLU:CG	2.40	0.50
6:J:34:THR:HG21	6:J:40:PHE:HE2	1.77	0.50
7:O:3:DT:H1'	7:O:4:DT:H5'	1.93	0.50
7:O:6:DA:H1'	7:O:7:DC:C5'	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:27:DA:P	7:O:27:DA:H2'	2.51	0.50
8:P:5:DC:H1'	8:P:6:DA:O5'	2.12	0.50
8:P:16:DT:H2''	8:P:17:DT:H71	1.94	0.50
1:A:97:LEU:C	1:A:98:ARG:HD3	2.37	0.49
1:A:186:ARG:HH11	1:B:148:PRO:HB2	1.77	0.49
1:B:1:MET:N	1:B:232:ILE:HA	2.27	0.49
1:B:40:ARG:NH1	3:D:623:ASP:HB3	2.20	0.49
1:B:107:ALA:HB3	1:B:121:PRO:O	2.11	0.49
1:B:215:LEU:O	1:B:218:LEU:HB3	2.12	0.49
2:C:326:GLU:OE1	2:C:326:GLU:N	2.45	0.49
2:C:347:ARG:O	2:C:350:GLU:HB3	2.11	0.49
2:C:523:VAL:HG13	2:C:552:GLY:HA3	1.93	0.49
2:C:540:VAL:O	2:C:576:VAL:HG13	2.12	0.49
2:C:611:MET:O	2:C:614:GLN:N	2.40	0.49
2:C:797:ARG:O	2:C:839:VAL:HG11	2.11	0.49
2:C:1136:GLU:O	3:D:10:LEU:HD12	2.13	0.49
3:D:550:GLU:OE2	4:E:62:ARG:HD2	2.12	0.49
3:D:595:ASP:N	3:D:598:GLU:OE2	2.45	0.49
3:D:930:VAL:HG12	3:D:936:VAL:CG2	2.38	0.49
3:D:1090:LYS:HG3	3:D:1097:ARG:HD3	1.93	0.49
3:D:1190:ASN:CA	3:D:1193:VAL:HG12	2.40	0.49
3:D:1276:GLU:HG2	3:D:1279:ARG:NE	2.26	0.49
5:F:274:PRO:HG2	5:F:277:GLN:CG	2.41	0.49
5:F:297:GLU:HA	5:F:300:LEU:CD1	2.42	0.49
5:F:336:ASP:N	7:O:27:DA:N1	2.46	0.49
5:F:457:GLN:O	5:F:460:LEU:HB3	2.11	0.49
5:F:510:THR:O	5:F:514:LEU:HD23	2.12	0.49
7:O:25:DC:C2'	7:O:26:DT:H71	2.42	0.49
8:P:23:DA:H2''	8:P:24:DA:O5'	2.12	0.49
1:A:74:THR:HA	1:A:77:ILE:HG12	1.93	0.49
2:C:347:ARG:HA	2:C:350:GLU:CB	2.41	0.49
2:C:354:THR:HA	2:C:363:VAL:O	2.12	0.49
3:D:781:ALA:O	3:D:785:VAL:HG23	2.12	0.49
5:F:300:LEU:O	5:F:303:VAL:HB	2.12	0.49
8:P:24:DA:H2''	8:P:25:DG:H5'	1.94	0.49
2:C:353:THR:O	2:C:365:VAL:N	2.38	0.49
2:C:662:HIS:HB2	2:C:666:THR:O	2.12	0.49
2:C:1007:LYS:HB3	2:C:1023:VAL:N	2.26	0.49
3:D:404:ASP:O	3:D:409:LYS:HE2	2.12	0.49
3:D:441:CYS:SG	3:D:514:PRO:HA	2.52	0.49
3:D:498:LEU:O	3:D:509:ILE:HA	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1044:ALA:HB1	3:D:1112:MET:HB2	1.93	0.49
3:D:1049:VAL:CA	3:D:1107:VAL:HA	2.42	0.49
1:A:165:ASP:OD2	2:C:878:LYS:NZ	2.28	0.49
1:B:26:LEU:H	1:B:189:PHE:HB3	1.76	0.49
1:B:147:VAL:HG22	1:B:148:PRO:O	2.12	0.49
2:C:38:ARG:HB2	2:C:971:ILE:CD1	2.42	0.49
2:C:388:GLN:HA	2:C:391:VAL:HG12	1.93	0.49
2:C:1133:LEU:C	3:D:15:ALA:HB2	2.36	0.49
3:D:8:ASP:C	3:D:1245:LEU:HD12	2.37	0.49
3:D:106:TYR:CD1	3:D:312:MET:HE3	2.48	0.49
3:D:494:HIS:HB2	4:E:90:LYS:NZ	2.28	0.49
3:D:564:ASN:O	3:D:565:ILE:HD13	2.13	0.49
3:D:589:THR:HG21	3:D:688:MET:CB	2.42	0.49
3:D:683:PHE:HE2	3:D:685:ASN:HB2	1.76	0.49
3:D:742:LYS:HG2	3:D:746:LEU:CD1	2.42	0.49
3:D:759:GLN:O	3:D:762:ARG:HB2	2.13	0.49
3:D:815:ARG:HH12	3:D:821:LYS:C	2.20	0.49
3:D:1254:ILE:HD11	3:D:1256:LYS:HB3	1.93	0.49
5:F:330:ARG:HA	5:F:333:GLU:OE1	2.11	0.49
2:C:252:PHE:HB3	2:C:255:SER:OG	2.13	0.49
2:C:529:VAL:HG12	2:C:531:LEU:CG	2.41	0.49
2:C:633:ARG:HA	2:C:636:ILE:CG1	2.39	0.49
2:C:721:VAL:HG23	2:C:915:ILE:HG13	1.95	0.49
2:C:737:LEU:HD23	2:C:915:ILE:CG2	2.42	0.49
3:D:134:TYR:CE1	3:D:256:MET:HB2	2.47	0.49
3:D:589:THR:HB	3:D:687:GLN:HA	1.95	0.49
3:D:1249:LYS:CD	11:D:1404:C0L:C32	2.91	0.49
4:E:38:PRO:HG2	4:E:43:LEU:CD1	2.39	0.49
4:E:50:LYS:O	4:E:53:LEU:HB3	2.12	0.49
1:A:43:LEU:CD2	2:C:901:VAL:HG13	2.41	0.49
1:A:87:SER:HB3	1:A:142:ARG:HD3	1.95	0.49
2:C:116:LYS:HZ3	2:C:130:ALA:HB3	1.77	0.49
2:C:180:VAL:O	2:C:377:ARG:N	2.45	0.49
2:C:187:PHE:H	2:C:368:ASP:HB2	1.77	0.49
2:C:205:ILE:O	2:C:205:ILE:HG13	2.13	0.49
2:C:231:ARG:HG3	5:F:211:ALA:HB1	1.94	0.49
2:C:571:VAL:HG23	2:C:575:GLU:OE1	2.11	0.49
2:C:737:LEU:HD12	2:C:895:ILE:CG2	2.43	0.49
2:C:755:HIS:O	2:C:870:ARG:HA	2.13	0.49
3:D:184:LEU:CB	3:D:194:ARG:HG2	2.42	0.49
3:D:373:MET:HE3	5:F:318:LEU:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:500:ARG:HD3	3:D:534:ALA:HB2	1.92	0.49
3:D:1181:ILE:HB	3:D:1185:GLU:CD	2.38	0.49
3:D:1250:GLU:O	3:D:1254:ILE:HG12	2.12	0.49
3:D:1251:ASN:HD22	3:D:1259:PRO:CD	2.23	0.49
6:J:30:ALA:O	6:J:41:GLU:HA	2.12	0.49
1:A:167:ILE:O	1:A:167:ILE:HG13	2.13	0.49
1:B:159:ILE:HD12	1:B:160:GLY:N	2.28	0.49
1:B:226:ASN:ND2	1:B:228:GLU:HB2	2.28	0.49
2:C:178:GLN:O	2:C:378:LEU:HD12	2.13	0.49
2:C:241:LEU:HD21	2:C:335:GLU:CB	2.42	0.49
2:C:540:VAL:HG13	2:C:577:ASP:N	2.26	0.49
2:C:542:ALA:HA	2:C:561:VAL:HA	1.93	0.49
2:C:994:PRO:HA	2:C:999:ASP:O	2.12	0.49
2:C:1017:GLU:OE1	2:C:1018:PRO:HD2	2.12	0.49
2:C:1049:TYR:CD2	2:C:1056:PRO:HG3	2.46	0.49
3:D:320:ILE:HG13	3:D:321:PRO:HD2	1.95	0.49
3:D:500:ARG:HB2	3:D:541:MET:CG	2.41	0.49
3:D:638:THR:HG22	3:D:661:ALA:CB	2.43	0.49
3:D:1051:GLY:O	3:D:1105:VAL:HG22	2.13	0.49
3:D:1160:GLN:HA	3:D:1163:ARG:CG	2.43	0.49
3:D:1168:ILE:HG13	3:D:1202:ALA:HB1	1.93	0.49
3:D:1184:ALA:HA	3:D:1187:GLU:OE1	2.12	0.49
3:D:1265:ASN:HB3	3:D:1269:ASN:ND2	2.27	0.49
4:E:56:TYR:HE2	4:E:99:ILE:HG12	1.77	0.49
6:J:101:ARG:HA	6:J:104:LEU:HB3	1.95	0.49
1:B:3:ILE:O	1:B:4:SER:OG	2.26	0.49
1:B:54:ILE:HD12	1:B:56:ILE:HD11	1.94	0.49
2:C:189:GLU:O	2:C:189:GLU:HG2	2.13	0.49
2:C:476:HIS:CG	2:C:477:PRO:HD2	2.47	0.49
2:C:1035:HIS:HA	2:C:1040:LYS:NZ	2.28	0.49
3:D:218:ARG:O	3:D:221:ASP:HB3	2.13	0.49
3:D:328:VAL:HG13	3:D:336:ALA:HB3	1.93	0.49
3:D:550:GLU:HG3	4:E:58:ALA:CB	2.42	0.49
3:D:572:ARG:HB2	3:D:573:PRO:HD2	1.93	0.49
3:D:588:LEU:HD13	3:D:588:LEU:O	2.13	0.49
3:D:607:PRO:HG2	3:D:609:THR:CG2	2.42	0.49
3:D:648:ALA:HA	3:D:652:GLY:H	1.77	0.49
3:D:851:ILE:HA	3:D:854:HIS:CD2	2.47	0.49
3:D:1148:SER:O	3:D:1149:ILE:HD13	2.12	0.49
1:B:51:VAL:HA	1:B:140:VAL:HA	1.94	0.49
1:B:213:LYS:HG2	1:B:217:GLU:OE2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:507:ASN:HA	2:C:513:GLU:OE2	2.12	0.49
2:C:571:VAL:CG2	2:C:575:GLU:HB2	2.43	0.49
2:C:633:ARG:HA	2:C:636:ILE:CD1	2.42	0.49
2:C:822:ARG:HD2	2:C:827:GLU:O	2.13	0.49
3:D:596:THR:HB	3:D:628:SER:CB	2.42	0.49
3:D:866:ARG:NH1	3:D:1011:THR:HG22	2.27	0.49
3:D:924:THR:HA	3:D:942:GLN:O	2.13	0.49
4:E:40:ILE:HA	4:E:43:LEU:HD12	1.95	0.49
5:F:366:ILE:O	5:F:366:ILE:HG13	2.13	0.49
5:F:479:PHE:C	5:F:486:PRO:HG3	2.37	0.49
6:J:55:LEU:HD21	6:J:59:GLY:HA2	1.95	0.49
8:P:6:DA:P	8:P:6:DA:H2'	2.52	0.49
8:P:17:DT:H1'	8:P:18:DT:C5'	2.42	0.49
1:A:3:ILE:O	1:A:3:ILE:HG13	2.13	0.49
1:A:14:LEU:HB2	1:A:18:ARG:HD3	1.93	0.49
1:A:66:VAL:O	1:A:69:VAL:HG22	2.13	0.49
2:C:42:ALA:HA	2:C:978:ASP:OD2	2.12	0.49
2:C:280:LYS:C	2:C:283:PRO:HD3	2.37	0.49
2:C:338:VAL:O	2:C:341:THR:HB	2.13	0.49
2:C:520:VAL:HG12	2:C:521:ASP:CG	2.38	0.49
2:C:620:ARG:HB3	2:C:717:LYS:NZ	2.27	0.49
2:C:721:VAL:CG2	2:C:915:ILE:HG13	2.43	0.49
3:D:656:TRP:N	3:D:660:ASP:OD2	2.37	0.49
3:D:1027:GLY:O	3:D:1030:ARG:HB3	2.12	0.49
6:J:90:SER:H	6:J:93:GLU:CD	2.21	0.49
2:C:281:LEU:HD23	2:C:295:LEU:HD21	1.93	0.48
2:C:403:ARG:CD	2:C:417:LEU:HA	2.42	0.48
2:C:463:LEU:HD22	2:C:468:ALA:HB2	1.94	0.48
2:C:587:VAL:HG23	2:C:591:THR:CG2	2.42	0.48
3:D:17:ALA:O	3:D:21:ARG:HG2	2.13	0.48
3:D:319:VAL:HG13	3:D:344:TYR:CE1	2.48	0.48
3:D:500:ARG:CB	3:D:541:MET:HG2	2.41	0.48
3:D:709:VAL:O	3:D:713:VAL:HG23	2.12	0.48
3:D:742:LYS:CE	3:D:746:LEU:HD21	2.43	0.48
3:D:800:ILE:HG12	3:D:804:ASP:OD1	2.13	0.48
3:D:1251:ASN:OD1	3:D:1254:ILE:HD11	2.14	0.48
1:A:128:LEU:HD23	1:A:132:GLY:C	2.38	0.48
2:C:289:LYS:HE2	2:C:289:LYS:HA	1.95	0.48
2:C:607:MET:O	2:C:611:MET:HG3	2.13	0.48
3:D:28:VAL:HG21	3:D:46:LEU:HD23	1.96	0.48
3:D:124:ASP:HB3	3:D:234:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:141:GLU:OE1	3:D:144:ARG:NH2	2.46	0.48
3:D:163:GLU:OE1	3:D:166:ARG:HD3	2.13	0.48
3:D:222:ILE:HD13	3:D:247:ARG:NH2	2.28	0.48
3:D:348:ILE:HG22	3:D:352:ASN:HD21	1.79	0.48
3:D:631:ALA:C	3:D:667:THR:HG22	2.38	0.48
3:D:1169:ASP:HB2	3:D:1202:ALA:H	1.78	0.48
6:J:33:ARG:N	6:J:63:THR:O	2.45	0.48
8:P:16:DT:H2"	8:P:17:DT:OP2	2.12	0.48
1:B:107:ALA:HB3	1:B:121:PRO:C	2.38	0.48
2:C:300:PHE:HA	2:C:306:TYR:CD2	2.48	0.48
2:C:334:THR:HG23	2:C:336:GLU:HB3	1.95	0.48
2:C:347:ARG:HA	2:C:350:GLU:OE1	2.13	0.48
2:C:961:ASP:OD1	2:C:962:GLU:N	2.35	0.48
3:D:181:LEU:HD22	3:D:185:GLU:OE2	2.13	0.48
3:D:923:ARG:C	3:D:944:LEU:HD12	2.39	0.48
3:D:1265:ASN:HB3	3:D:1269:ASN:HD22	1.77	0.48
5:F:297:GLU:HA	5:F:300:LEU:HD12	1.94	0.48
5:F:372:MET:O	5:F:375:VAL:HG22	2.13	0.48
1:A:221:LEU:HD12	1:A:225:LEU:HD22	1.94	0.48
1:B:47:PRO:HG3	1:B:144:ARG:CZ	2.44	0.48
2:C:32:VAL:HB	2:C:35:ALA:HB2	1.95	0.48
2:C:109:ASP:OD2	2:C:111:ARG:HD2	2.13	0.48
2:C:335:GLU:O	2:C:339:VAL:HG13	2.13	0.48
2:C:396:MET:CE	2:C:419:ASN:H	2.26	0.48
2:C:476:HIS:HB3	2:C:479:HIS:HD2	1.77	0.48
2:C:727:GLU:H	3:D:725:THR:CG2	2.26	0.48
2:C:776:ILE:HG13	2:C:780:VAL:HG21	1.96	0.48
3:D:173:ARG:CG	3:D:205:MET:HB2	2.42	0.48
3:D:229:LEU:HD12	3:D:233:GLN:OE1	2.13	0.48
3:D:636:ARG:CB	3:D:663:MET:HG2	2.42	0.48
3:D:651:PHE:HD2	3:D:655:GLY:HA2	1.78	0.48
3:D:885:ILE:HA	3:D:994:ALA:HA	1.94	0.48
3:D:897:ILE:O	3:D:961:LYS:HA	2.13	0.48
3:D:1088:VAL:HG23	3:D:1098:VAL:CA	2.44	0.48
6:J:79:ARG:HD3	6:J:84:MET:SD	2.54	0.48
1:A:61:HIS:HA	1:A:162:ILE:CD1	2.43	0.48
1:A:118:VAL:HG12	1:A:120:ASN:H	1.78	0.48
1:A:172:LEU:HD12	1:A:197:GLU:CD	2.37	0.48
1:A:177:LYS:HG3	1:A:193:ILE:HB	1.96	0.48
1:B:56:ILE:HG23	1:B:136:VAL:HG22	1.96	0.48
2:C:102:SER:C	2:C:142:ASN:HB2	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:222:VAL:CB	2:C:234:VAL:HG13	2.42	0.48
2:C:455:LEU:HD11	2:C:500:LEU:CD2	2.36	0.48
2:C:456:SER:HB3	2:C:497:ILE:HG12	1.96	0.48
2:C:505:ARG:HG2	2:C:506:VAL:H	1.77	0.48
2:C:519:VAL:HG23	2:C:523:VAL:C	2.39	0.48
2:C:816:PRO:HB3	5:F:479:PHE:O	2.13	0.48
2:C:846:LYS:O	2:C:873:VAL:HG13	2.12	0.48
3:D:144:ARG:HG3	3:D:226:PHE:CE2	2.49	0.48
3:D:364:GLU:HG3	3:D:368:ASN:OD1	2.13	0.48
6:J:88:ARG:O	6:J:89:ARG:HD3	2.13	0.48
8:P:15:DC:H2''	8:P:16:DT:H71	1.95	0.48
1:B:104:GLU:HG2	1:B:127:THR:CG2	2.41	0.48
2:C:161:THR:HG23	2:C:165:THR:O	2.13	0.48
2:C:236:VAL:O	2:C:240:ALA:CB	2.62	0.48
2:C:736:ILE:HD11	2:C:916:ILE:CG1	2.42	0.48
2:C:868:LEU:HD13	2:C:869:VAL:N	2.29	0.48
2:C:1114:GLU:HG2	2:C:1115:PRO:HD2	1.94	0.48
3:D:58:TRP:CE3	3:D:68:VAL:HG22	2.48	0.48
3:D:106:TYR:CB	3:D:114:LEU:HG	2.44	0.48
3:D:166:ARG:HH21	3:D:209:ARG:HB2	1.79	0.48
3:D:350:ARG:NH1	3:D:377:SER:HB3	2.28	0.48
3:D:494:HIS:NE2	3:D:545:LEU:HD11	2.29	0.48
3:D:821:LYS:N	3:D:838:SER:O	2.41	0.48
3:D:1207:LEU:HD13	3:D:1208:MET:N	2.29	0.48
3:D:1266:ARG:HA	4:E:109:GLY:C	2.38	0.48
7:O:19:DA:H2'	7:O:20:DT:H72	1.93	0.48
2:C:356:THR:HB	2:C:362:GLU:HB3	1.96	0.48
2:C:491:GLY:O	2:C:494:ILE:HG13	2.13	0.48
2:C:548:ILE:HD11	2:C:579:MET:SD	2.54	0.48
2:C:721:VAL:HG23	2:C:915:ILE:C	2.39	0.48
2:C:887:GLY:HA3	2:C:1028:MET:CE	2.43	0.48
2:C:926:MET:HE3	3:D:840:PHE:CD2	2.49	0.48
2:C:1066:GLN:HG3	3:D:427:ARG:CZ	2.44	0.48
3:D:888:GLU:OE1	3:D:970:THR:HG22	2.13	0.48
3:D:1175:PHE:C	3:D:1176:LEU:HD12	2.39	0.48
2:C:50:VAL:HA	2:C:503:TYR:CE1	2.48	0.48
2:C:317:ASN:CG	2:C:323:HIS:HB2	2.38	0.48
2:C:407:GLN:HB3	2:C:412:ILE:CG2	2.23	0.48
2:C:482:ARG:CG	2:C:512:ILE:HG21	2.43	0.48
2:C:626:VAL:HG13	2:C:888:ARG:HH22	1.78	0.48
2:C:1012:ASP:HB2	2:C:1019:PHE:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1067:ARG:HH11	3:D:421:ARG:HH21	1.62	0.48
2:C:1068:PHE:HB2	3:D:544:HIS:CE1	2.49	0.48
2:C:1126:LYS:HD3	2:C:1129:GLN:OE1	2.13	0.48
3:D:278:ARG:O	3:D:281:ILE:HG13	2.14	0.48
3:D:732:SER:N	3:D:735:ASP:OD2	2.23	0.48
3:D:1063:LYS:NZ	3:D:1078:ASP:HB3	2.28	0.48
5:F:322:GLN:O	5:F:325:ASN:HB2	2.13	0.48
1:B:78:LEU:HD12	1:B:79:ASN:N	2.29	0.48
2:C:133:LEU:HB3	2:C:154:MET:HB3	1.95	0.48
2:C:179:LEU:HB3	2:C:376:ARG:HE	1.77	0.48
2:C:369:ASP:CG	2:C:372:HIS:H	2.22	0.48
2:C:1040:LYS:O	2:C:1060:LYS:HE3	2.14	0.48
3:D:101:VAL:HG13	3:D:375:GLN:CD	2.39	0.48
3:D:749:TYR:OH	3:D:780:GLU:HG3	2.14	0.48
3:D:923:ARG:HB3	3:D:962:VAL:CG2	2.33	0.48
3:D:1249:LYS:HE3	11:D:1404:C0L:C30	2.30	0.48
5:F:261:GLN:HG2	6:J:82:TRP:CH2	2.49	0.48
5:F:273:LEU:HD11	5:F:281:MET:SD	2.54	0.48
5:F:306:LEU:HD12	5:F:351:ILE:HG21	1.95	0.48
1:A:26:LEU:HB2	1:A:190:ASP:CB	2.41	0.48
1:B:94:THR:O	1:B:95:MET:HG3	2.13	0.48
2:C:38:ARG:HH12	2:C:625:LEU:C	2.20	0.48
2:C:517:ARG:CG	2:C:581:VAL:HA	2.36	0.48
2:C:635:ALA:HA	2:C:638:ALA:CB	2.43	0.48
2:C:760:ARG:HB2	2:C:767:GLU:CD	2.39	0.48
2:C:769:ILE:HD12	2:C:867:GLU:OE1	2.14	0.48
2:C:1007:LYS:HA	2:C:1023:VAL:O	2.14	0.48
2:C:1041:ILE:HD12	3:D:520:LYS:HB3	1.96	0.48
3:D:284:GLY:C	3:D:289:LYS:HB2	2.39	0.48
3:D:553:ALA:CB	4:E:54:VAL:HG13	2.43	0.48
3:D:895:ARG:CZ	3:D:967:THR:HA	2.44	0.48
3:D:939:GLU:OE1	3:D:939:GLU:N	2.41	0.48
5:F:310:TYR:HB3	5:F:313:ARG:HH21	1.79	0.48
6:J:90:SER:O	6:J:94:LEU:HG	2.14	0.48
1:A:223:ARG:NH2	1:A:224:GLU:HB2	2.29	0.47
1:B:53:SER:HB3	1:B:163:PRO:HA	1.95	0.47
1:B:211:ALA:O	1:B:214:THR:OG1	2.23	0.47
2:C:380:THR:HG22	2:C:383:GLU:HB2	1.95	0.47
2:C:596:PHE:CE1	2:C:932:LEU:HB3	2.49	0.47
2:C:821:LEU:HD23	5:F:527:LEU:CD2	2.44	0.47
2:C:1012:ASP:CG	2:C:1015:SER:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1121:PHE:CE1	3:D:1254:ILE:HG22	2.49	0.47
3:D:11:ARG:HG3	3:D:1242:SER:HB2	1.96	0.47
3:D:824:VAL:HG11	3:D:851:ILE:O	2.14	0.47
3:D:891:CYS:SG	3:D:969:ALA:N	2.77	0.47
3:D:938:VAL:HG13	3:D:942:GLN:CD	2.39	0.47
3:D:1053:VAL:CG1	3:D:1055:LEU:HB2	2.44	0.47
3:D:1160:GLN:HA	3:D:1163:ARG:HG2	1.96	0.47
5:F:231:TYR:O	5:F:235:ILE:HG12	2.14	0.47
5:F:313:ARG:NH2	5:F:359:MET:HE1	2.29	0.47
7:O:27:DA:H4'	7:O:28:DT:OP1	2.14	0.47
1:A:182:ARG:HA	1:A:188:ASP:CG	2.39	0.47
1:B:99:LYS:O	1:B:134:LEU:N	2.41	0.47
2:C:89:VAL:HA	2:C:92:GLU:CG	2.43	0.47
2:C:180:VAL:HG21	2:C:379:ARG:HG3	1.96	0.47
2:C:257:ILE:O	2:C:261:THR:HG23	2.14	0.47
2:C:540:VAL:CG2	2:C:561:VAL:HG21	2.41	0.47
2:C:650:ILE:HG12	2:C:694:ASP:O	2.13	0.47
2:C:654:SER:HG	2:C:657:TYR:N	2.06	0.47
2:C:777:SER:HB3	2:C:780:VAL:CG2	2.44	0.47
2:C:825:PHE:CD2	5:F:527:LEU:HD11	2.49	0.47
3:D:107:PHE:CZ	3:D:129:ILE:HD11	2.48	0.47
3:D:607:PRO:C	3:D:609:THR:HG23	2.39	0.47
3:D:633:ILE:HD12	3:D:635:VAL:CG1	2.43	0.47
3:D:1044:ALA:O	3:D:1116:ALA:HB2	2.13	0.47
3:D:1059:GLU:C	3:D:1060:ARG:HD3	2.38	0.47
3:D:1131:GLN:O	3:D:1135:VAL:HG23	2.14	0.47
5:F:220:GLU:OE2	5:F:221:LEU:HD12	2.14	0.47
5:F:247:VAL:O	5:F:251:LYS:HG3	2.13	0.47
5:F:358:ALA:HA	5:F:361:ASP:OD2	2.14	0.47
8:P:8:DT:C6	8:P:9:DT:H72	2.49	0.47
1:A:223:ARG:CD	1:B:216:VAL:HG11	2.44	0.47
1:B:18:ARG:O	1:B:18:ARG:HG2	2.12	0.47
1:B:87:SER:OG	1:B:116:VAL:HA	2.13	0.47
2:C:161:THR:HG1	2:C:165:THR:H	1.54	0.47
2:C:471:GLU:HA	2:C:474:ASP:OD2	2.15	0.47
2:C:681:GLY:O	2:C:751:HIS:HA	2.14	0.47
2:C:768:GLU:HB3	2:C:806:VAL:CG1	2.44	0.47
3:D:8:ASP:O	3:D:1245:LEU:HD12	2.15	0.47
3:D:149:SER:O	3:D:152:GLU:HG2	2.14	0.47
3:D:222:ILE:CG1	3:D:240:LEU:HD11	2.44	0.47
3:D:391:VAL:HB	3:D:399:LEU:CD1	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:499:ASN:OD1	3:D:509:ILE:HD11	2.15	0.47
3:D:576:MET:HG3	3:D:697:ILE:CD1	2.43	0.47
3:D:810:ASN:OD1	3:D:813:GLN:HG3	2.14	0.47
3:D:930:VAL:CG1	3:D:936:VAL:HG22	2.42	0.47
3:D:945:GLY:O	3:D:949:ILE:HG12	2.15	0.47
3:D:1235:ASP:CA	3:D:1238:ILE:HD12	2.37	0.47
4:E:33:LEU:H	4:E:36:THR:CG2	2.26	0.47
5:F:220:GLU:O	5:F:224:SER:OG	2.30	0.47
5:F:261:GLN:O	5:F:264:THR:HG22	2.14	0.47
1:A:49:ALA:HB2	1:A:142:ARG:HA	1.97	0.47
1:A:183:VAL:HG12	1:A:188:ASP:OD1	2.15	0.47
1:B:30:PHE:HB3	1:B:34:LEU:CD2	2.43	0.47
1:B:84:VAL:O	1:B:119:HIS:N	2.38	0.47
1:B:134:LEU:CD1	1:B:136:VAL:HG23	2.42	0.47
1:B:223:ARG:HH21	1:B:227:VAL:HG13	1.79	0.47
2:C:85:GLY:O	2:C:89:VAL:HG23	2.14	0.47
2:C:220:ASP:C	2:C:257:ILE:HG23	2.39	0.47
2:C:1007:LYS:NZ	2:C:1022:PRO:HG2	2.30	0.47
2:C:1049:TYR:CD1	2:C:1056:PRO:HD3	2.49	0.47
3:D:71:LYS:HG2	6:J:24:LEU:HD12	1.96	0.47
3:D:752:ARG:HA	3:D:755:LYS:HE3	1.96	0.47
3:D:979:TYR:O	3:D:1152:LYS:NZ	2.38	0.47
1:A:52:THR:O	1:A:164:VAL:HB	2.15	0.47
1:A:71:GLU:CD	1:A:127:THR:H	2.23	0.47
1:A:215:LEU:HD12	1:A:219:PHE:HE2	1.79	0.47
1:B:78:LEU:HA	1:B:81:LYS:CE	2.35	0.47
1:B:82:SER:OG	1:B:123:MET:HE1	2.14	0.47
1:B:87:SER:HA	1:B:115:GLY:O	2.14	0.47
1:B:213:LYS:O	1:B:216:VAL:HG12	2.15	0.47
2:C:55:ASP:HB3	2:C:59:ASP:OD2	2.13	0.47
2:C:179:LEU:CD2	2:C:378:LEU:HD13	2.42	0.47
2:C:208:ARG:HH22	2:C:305:ARG:HA	1.78	0.47
2:C:241:LEU:HG	2:C:243:TRP:HE1	1.79	0.47
2:C:426:ALA:HA	2:C:429:GLU:HG3	1.96	0.47
3:D:517:VAL:HG11	3:D:523:GLN:CD	2.40	0.47
3:D:570:SER:HB3	3:D:1148:SER:O	2.15	0.47
3:D:624:ARG:HD2	3:D:626:VAL:CG2	2.45	0.47
3:D:925:LEU:O	3:D:941:GLY:N	2.34	0.47
3:D:1064:ILE:HD12	3:D:1080:ILE:HD13	1.95	0.47
3:D:1190:ASN:HA	3:D:1193:VAL:CG1	2.40	0.47
1:A:221:LEU:HD22	1:B:7:PRO:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:38:LEU:O	1:B:41:THR:HB	2.14	0.47
1:B:81:LYS:HE3	3:D:613:SER:HB3	1.97	0.47
2:C:132:PRO:HA	2:C:156:ASP:HA	1.97	0.47
2:C:189:GLU:HA	2:C:199:LEU:C	2.40	0.47
2:C:355:MET:C	2:C:362:GLU:HA	2.40	0.47
2:C:519:VAL:HG23	2:C:524:VAL:N	2.30	0.47
2:C:651:GLU:HB3	2:C:659:THR:O	2.15	0.47
2:C:981:GLN:O	2:C:985:LEU:HG	2.15	0.47
2:C:1007:LYS:HD2	2:C:1022:PRO:C	2.39	0.47
2:C:1066:GLN:HB2	3:D:425:SER:HB3	1.96	0.47
2:C:1071:MET:SD	3:D:502:PRO:HA	2.53	0.47
3:D:245:VAL:HA	3:D:252:PHE:CZ	2.47	0.47
3:D:525:HIS:O	3:D:528:VAL:HG22	2.15	0.47
3:D:592:VAL:HG23	3:D:630:ARG:HB2	1.96	0.47
3:D:651:PHE:CD2	3:D:655:GLY:HA2	2.50	0.47
3:D:749:TYR:CE2	3:D:781:ALA:HA	2.50	0.47
3:D:820:MET:HE3	3:D:837:LYS:CA	2.37	0.47
3:D:1030:ARG:HA	3:D:1033:GLU:OE2	2.15	0.47
5:F:299:ASN:O	5:F:303:VAL:HG23	2.14	0.47
5:F:464:LEU:CD2	5:F:476:ARG:HE	2.26	0.47
1:A:28:PRO:HA	1:A:190:ASP:OD1	2.15	0.47
1:A:84:VAL:HG12	1:A:120:ASN:OD1	2.13	0.47
2:C:138:GLU:OE2	2:C:140:ILE:HD11	2.15	0.47
2:C:140:ILE:HG12	2:C:146:GLU:C	2.40	0.47
2:C:140:ILE:HG12	2:C:146:GLU:O	2.15	0.47
2:C:255:SER:CB	2:C:258:MET:HB2	2.44	0.47
2:C:256:GLU:HA	2:C:259:ARG:NE	2.29	0.47
2:C:398:ARG:HD2	2:C:399:VAL:HG23	1.97	0.47
2:C:501:SER:HA	2:C:587:VAL:O	2.15	0.47
2:C:543:GLN:HG3	3:D:847:LEU:HD11	1.97	0.47
2:C:583:PRO:HG2	2:C:584:ARG:HE	1.79	0.47
2:C:648:GLY:O	2:C:695:ARG:HG3	2.15	0.47
2:C:762:THR:HG21	2:C:764:LEU:HB2	1.96	0.47
2:C:774:PRO:HG2	2:C:834:ASP:CB	2.42	0.47
2:C:1072:GLU:CA	2:C:1075:ALA:HB3	2.44	0.47
2:C:1098:GLY:O	2:C:1102:VAL:HG23	2.14	0.47
2:C:1120:SER:OG	11:D:1404:C0L:O36	2.25	0.47
3:D:9:GLU:OE2	3:D:1244:LYS:NZ	2.23	0.47
3:D:57:ASP:HB3	3:D:58:TRP:HE3	1.78	0.47
3:D:73:ILE:HA	6:J:43:PRO:O	2.14	0.47
3:D:245:VAL:HG22	3:D:252:PHE:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:374:LEU:O	3:D:378:VAL:HG23	2.14	0.47
3:D:475:MET:O	3:D:479:GLN:N	2.40	0.47
3:D:560:LEU:HB3	3:D:563:ASN:ND2	2.30	0.47
3:D:571:GLY:CA	3:D:983:MET:HE3	2.45	0.47
3:D:573:PRO:HD3	3:D:698:ASN:OD1	2.15	0.47
3:D:758:LYS:O	3:D:762:ARG:HG2	2.14	0.47
3:D:778:TRP:CH2	3:D:837:LYS:HD3	2.49	0.47
3:D:891:CYS:HB3	3:D:970:THR:CG2	2.43	0.47
3:D:1054:ARG:N	3:D:1067:VAL:HG23	2.30	0.47
3:D:1056:GLU:H	3:D:1064:ILE:HG12	1.80	0.47
3:D:1127:PRO:O	3:D:1131:GLN:HG3	2.14	0.47
3:D:1223:ALA:HA	3:D:1226:PHE:CE2	2.50	0.47
3:D:1228:GLU:O	3:D:1232:VAL:HG23	2.15	0.47
5:F:226:ASP:CG	5:F:229:ARG:H	2.23	0.47
5:F:273:LEU:HD23	5:F:274:PRO:O	2.13	0.47
5:F:335:PHE:HA	5:F:346:TYR:CE2	2.50	0.47
5:F:390:LEU:CD2	5:F:394:PRO:HA	2.45	0.47
7:O:28:DT:H2''	7:O:29:DA:C8	2.50	0.47
8:P:15:DC:H1'	8:P:16:DT:C5'	2.45	0.47
1:A:65:THR:HG21	2:C:656:ASP:OD2	2.15	0.47
1:A:129:ASN:ND2	2:C:652:GLU:OE2	2.48	0.47
1:A:183:VAL:N	1:A:188:ASP:OD1	2.48	0.47
1:B:83:LEU:HD11	1:B:118:VAL:HG13	1.95	0.47
2:C:68:PRO:HA	2:C:71:ARG:HB3	1.97	0.47
2:C:385:ILE:O	2:C:389:ILE:HG13	2.14	0.47
2:C:483:MET:CE	2:C:498:GLY:HA3	2.44	0.47
2:C:547:PRO:O	2:C:555:VAL:HG23	2.15	0.47
2:C:647:SER:HA	2:C:697:GLU:CA	2.45	0.47
2:C:683:CYS:SG	2:C:684:ALA:N	2.88	0.47
2:C:739:ASN:ND2	2:C:743:GLU:OE2	2.47	0.47
3:D:190:LYS:HZ2	3:D:192:ASP:HB3	1.79	0.47
3:D:560:LEU:HD12	3:D:561:SER:H	1.80	0.47
3:D:595:ASP:H	3:D:598:GLU:CD	2.23	0.47
3:D:601:PRO:HA	3:D:608:GLU:HG2	1.96	0.47
3:D:671:VAL:HG12	3:D:675:GLU:OE2	2.15	0.47
3:D:802:ILE:CG2	3:D:807:ALA:HB3	2.44	0.47
3:D:903:GLU:O	3:D:911:ILE:HG13	2.15	0.47
5:F:306:LEU:HD13	5:F:351:ILE:HG21	1.96	0.47
5:F:479:PHE:CB	5:F:481:LEU:HG	2.37	0.47
1:B:28:PRO:HA	1:B:29:GLY:HA2	1.39	0.47
1:B:84:VAL:HG11	1:B:200:ASN:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:202:VAL:HG12	2:C:214:PHE:HB2	1.96	0.47
2:C:674:LYS:HA	2:C:685:ASN:HA	1.97	0.47
2:C:770:THR:HG23	2:C:772:ASP:O	2.15	0.47
2:C:854:SER:HB3	2:C:857:ASP:OD2	2.14	0.47
2:C:1134:ASN:N	3:D:15:ALA:HB2	2.30	0.47
3:D:30:LYS:N	3:D:44:ASP:O	2.48	0.47
3:D:189:ALA:HB3	3:D:194:ARG:CD	2.38	0.47
3:D:320:ILE:CG2	3:D:325:ARG:HD3	2.45	0.47
3:D:844:LEU:HD23	3:D:848:GLU:HB3	1.97	0.47
3:D:991:ILE:HG22	3:D:991:ILE:O	2.15	0.47
3:D:1003:ILE:O	3:D:1006:PRO:HD2	2.15	0.47
5:F:283:TRP:CA	5:F:286:ARG:HH21	2.27	0.47
1:A:207:ALA:O	1:A:210:SER:OG	2.25	0.47
2:C:111:ARG:CG	2:C:134:PHE:HB2	2.45	0.47
2:C:182:SER:HB3	2:C:377:ARG:HB3	1.97	0.47
2:C:381:VAL:HG13	2:C:382:GLY:H	1.79	0.47
2:C:635:ALA:HA	2:C:638:ALA:HB3	1.97	0.47
2:C:855:ARG:HH11	2:C:861:LEU:CB	2.27	0.47
2:C:1015:SER:OG	2:C:1016:GLY:N	2.47	0.47
2:C:1043:ALA:HB1	3:D:451:LEU:HD21	1.95	0.47
2:C:1125:LEU:O	2:C:1129:GLN:HG3	2.14	0.47
3:D:173:ARG:HH21	3:D:177:LEU:N	2.13	0.47
3:D:181:LEU:HD21	3:D:198:ARG:HD2	1.95	0.47
3:D:322:PRO:HA	3:D:325:ARG:NE	2.30	0.47
3:D:567:SER:HA	3:D:574:LEU:HD11	1.97	0.47
3:D:686:LYS:HB2	3:D:688:MET:CE	2.44	0.47
3:D:760:PHE:CG	3:D:770:ARG:HG2	2.50	0.47
3:D:890:ASP:OD1	3:D:963:ARG:NH1	2.37	0.47
3:D:1192:ARG:O	3:D:1195:ALA:HB3	2.14	0.47
6:J:79:ARG:NH2	7:O:24:DG:O3'	2.45	0.47
1:A:10:SER:OG	1:A:22:VAL:HG13	2.15	0.46
1:B:29:GLY:O	1:B:33:THR:HG23	2.14	0.46
2:C:32:VAL:HG13	2:C:33:PRO:HD2	1.98	0.46
2:C:302:LYS:O	2:C:302:LYS:HD2	2.16	0.46
2:C:346:VAL:O	2:C:350:GLU:HB2	2.14	0.46
2:C:795:GLU:HB2	2:C:846:LYS:NZ	2.30	0.46
2:C:997:ASP:HB2	2:C:999:ASP:OD2	2.14	0.46
3:D:230:ALA:HB1	3:D:231:PRO:HD2	1.96	0.46
3:D:474:ARG:O	3:D:478:ARG:HG2	2.14	0.46
3:D:743:LYS:O	3:D:746:LEU:HB2	2.15	0.46
3:D:801:THR:HA	3:D:804:ASP:OD2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1039:VAL:HG12	3:D:1117:ASP:HB3	1.97	0.46
3:D:1271:ALA:N	4:E:107:THR:O	2.45	0.46
3:D:1275:THR:HG23	3:D:1278:ALA:H	1.80	0.46
5:F:263:MET:CG	5:F:282:MET:HE1	2.45	0.46
5:F:274:PRO:HG2	5:F:277:GLN:HB2	1.98	0.46
5:F:390:LEU:HD23	5:F:394:PRO:HA	1.96	0.46
5:F:415:GLN:CG	5:F:418:ARG:HD2	2.45	0.46
8:P:19:DT:H2"	8:P:20:DG:C8	2.50	0.46
1:A:72:ASP:OD2	1:A:74:THR:HG22	2.16	0.46
2:C:191:ILE:HA	2:C:197:LYS:O	2.15	0.46
2:C:717:LYS:HB2	2:C:719:LEU:HD11	1.97	0.46
2:C:884:LYS:C	2:C:885:LEU:HD12	2.41	0.46
2:C:1067:ARG:HG3	3:D:421:ARG:HA	1.96	0.46
2:C:1104:GLU:HG3	2:C:1108:LYS:HE3	1.96	0.46
2:C:1128:LEU:O	2:C:1133:LEU:HB2	2.15	0.46
3:D:101:VAL:HG11	3:D:378:VAL:HG11	1.97	0.46
3:D:107:PHE:CA	3:D:114:LEU:HD12	2.45	0.46
3:D:727:SER:OG	3:D:729:VAL:HG13	2.16	0.46
3:D:834:ARG:NE	3:D:834:ARG:HA	2.31	0.46
3:D:901:LEU:HD12	3:D:958:THR:HA	1.96	0.46
3:D:1235:ASP:HA	3:D:1238:ILE:CD1	2.36	0.46
5:F:491:GLU:O	5:F:494:GLN:HB3	2.15	0.46
6:J:110:ARG:H	6:J:110:ARG:HD2	1.81	0.46
1:A:22:VAL:HG21	1:A:191:LYS:NZ	2.31	0.46
1:A:144:ARG:C	1:A:168:TYR:HB2	2.40	0.46
1:B:170:PRO:HA	1:B:199:LYS:NZ	2.30	0.46
2:C:92:GLU:HG3	2:C:93:LEU:HD22	1.95	0.46
2:C:181:ARG:O	2:C:181:ARG:NH1	2.40	0.46
2:C:311:VAL:HG22	2:C:509:PHE:CD1	2.50	0.46
2:C:543:GLN:CG	3:D:847:LEU:HD11	2.46	0.46
2:C:771:ARG:HD2	2:C:785:ASP:O	2.15	0.46
3:D:68:VAL:HB	6:J:17:GLU:OE1	2.15	0.46
3:D:131:PHE:HA	3:D:256:MET:CG	2.46	0.46
3:D:741:ARG:O	3:D:744:GLU:HG2	2.15	0.46
3:D:773:ALA:O	3:D:777:ILE:HG13	2.16	0.46
3:D:912:ARG:CG	3:D:916:ILE:HD12	2.46	0.46
3:D:1199:GLU:O	3:D:1199:GLU:HG2	2.15	0.46
1:A:172:LEU:CD2	1:A:199:LYS:HB3	2.45	0.46
1:A:176:TYR:HB2	1:A:192:LEU:HD11	1.97	0.46
1:B:170:PRO:O	1:B:199:LYS:HG2	2.14	0.46
1:B:171:VAL:C	1:B:172:LEU:HD12	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:108:SER:N	2:C:136:THR:O	2.49	0.46
2:C:414:PRO:O	2:C:418:ILE:HG13	2.15	0.46
2:C:544:ALA:HB2	2:C:580:ASP:CB	2.39	0.46
2:C:802:LEU:HD21	2:C:839:VAL:CB	2.43	0.46
2:C:805:LYS:HB3	2:C:835:THR:O	2.16	0.46
2:C:1067:ARG:HB2	3:D:421:ARG:HB2	1.91	0.46
3:D:1090:LYS:HD2	3:D:1097:ARG:CD	2.45	0.46
3:D:1090:LYS:CG	3:D:1097:ARG:HD3	2.44	0.46
3:D:1103:ASP:O	3:D:1105:VAL:HG13	2.16	0.46
3:D:1165:VAL:N	3:D:1181:ILE:O	2.36	0.46
7:O:6:DA:H1'	7:O:7:DC:H5'	1.98	0.46
8:P:10:DT:H2''	8:P:11:DA:C8	2.51	0.46
2:C:41:PHE:CE2	2:C:980:ALA:HB2	2.50	0.46
2:C:46:GLU:OE1	2:C:46:GLU:N	2.38	0.46
2:C:51:PRO:HD3	2:C:503:TYR:CD1	2.51	0.46
2:C:102:SER:O	2:C:142:ASN:N	2.48	0.46
2:C:624:PRO:HA	2:C:718:ASN:ND2	2.29	0.46
2:C:1050:SER:O	5:F:441:ASP:CB	2.63	0.46
2:C:1075:ALA:O	2:C:1078:ALA:HB3	2.16	0.46
2:C:1117:ILE:HG23	2:C:1118:PRO:HD2	1.97	0.46
3:D:460:LEU:HD12	3:D:461:VAL:N	2.29	0.46
3:D:576:MET:SD	3:D:694:ALA:HB2	2.55	0.46
3:D:676:LEU:CD1	3:D:715:LYS:HB3	2.46	0.46
5:F:265:GLU:O	5:F:268:GLU:HG3	2.16	0.46
5:F:286:ARG:HB3	5:F:290:ARG:NH2	2.30	0.46
5:F:310:TYR:CD2	5:F:355:ILE:HG21	2.50	0.46
5:F:440:GLU:HB3	6:J:7:ARG:CB	2.45	0.46
7:O:4:DT:H1'	7:O:5:DG:H5'	1.96	0.46
7:O:12:DG:H2'	7:O:13:DT:H72	1.97	0.46
8:P:9:DT:H2'	8:P:10:DT:H71	1.97	0.46
1:A:40:ARG:HE	1:B:33:THR:CG2	2.25	0.46
2:C:38:ARG:CZ	2:C:971:ILE:HB	2.45	0.46
2:C:207:SER:N	2:C:308:LEU:HA	2.29	0.46
2:C:224:VAL:C	2:C:232:GLN:HB2	2.41	0.46
2:C:386:GLN:HA	2:C:389:ILE:HD12	1.97	0.46
2:C:446:LEU:HB2	2:C:713:MET:CE	2.46	0.46
2:C:650:ILE:HG21	2:C:692:ALA:HA	1.98	0.46
2:C:650:ILE:CG1	2:C:694:ASP:HB2	2.44	0.46
2:C:1068:PHE:H	3:D:422:VAL:CG2	2.28	0.46
3:D:277:LEU:HB3	3:D:296:LEU:HD13	1.98	0.46
3:D:487:LEU:HA	3:D:490:VAL:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:589:THR:CB	3:D:688:MET:H	2.29	0.46
3:D:684:VAL:HG13	3:D:686:LYS:HZ3	1.80	0.46
3:D:749:TYR:CG	3:D:781:ALA:HB2	2.50	0.46
3:D:975:CYS:SG	3:D:977:THR:OG1	2.71	0.46
3:D:1029:PRO:O	3:D:1033:GLU:HG2	2.15	0.46
3:D:1158:VAL:HG22	3:D:1161:MET:SD	2.54	0.46
6:J:92:GLU:O	6:J:96:GLU:HG2	2.15	0.46
1:A:56:ILE:HG12	1:A:136:VAL:HA	1.97	0.46
2:C:241:LEU:HD11	2:C:335:GLU:CB	2.45	0.46
2:C:600:ASP:CG	2:C:929:GLY:H	2.24	0.46
2:C:678:SER:OG	2:C:679:ASN:N	2.48	0.46
2:C:824:ILE:HG12	5:F:511:MET:HE1	1.98	0.46
2:C:883:ASP:HB2	2:C:895:ILE:CD1	2.43	0.46
3:D:239:ASN:ND2	3:D:242:ARG:HH21	2.13	0.46
3:D:263:LYS:HD3	3:D:266:GLU:OE1	2.15	0.46
3:D:513:GLU:HB2	4:E:35:ILE:HG21	1.98	0.46
3:D:631:ALA:O	3:D:667:THR:HG22	2.16	0.46
3:D:905:ALA:HB3	3:D:909:THR:H	1.80	0.46
3:D:982:SER:HB3	3:D:985:THR:HG1	1.81	0.46
3:D:1223:ALA:HA	3:D:1226:PHE:CD2	2.51	0.46
5:F:338:THR:HG23	6:J:89:ARG:NH2	2.31	0.46
6:J:55:LEU:HG	6:J:60:MET:C	2.40	0.46
1:A:95:MET:CA	1:A:113:PRO:HD3	2.46	0.46
1:A:112:PRO:HB2	1:A:116:VAL:HG23	1.97	0.46
1:B:1:MET:CB	1:B:232:ILE:HA	2.42	0.46
2:C:180:VAL:CG2	2:C:379:ARG:HG3	2.46	0.46
2:C:403:ARG:CB	2:C:407:GLN:HG2	2.44	0.46
2:C:563:ARG:O	2:C:566:GLY:N	2.40	0.46
2:C:847:VAL:HG22	2:C:873:VAL:CG2	2.30	0.46
2:C:1045:SER:HB2	3:D:424:TYR:CE1	2.50	0.46
3:D:500:ARG:NH1	3:D:532:PHE:O	2.49	0.46
5:F:218:ASP:O	5:F:222:THR:HG23	2.15	0.46
5:F:306:LEU:O	5:F:309:ARG:HG2	2.15	0.46
5:F:480:GLY:O	5:F:484:GLY:N	2.44	0.46
6:J:33:ARG:HA	6:J:38:GLU:O	2.15	0.46
8:P:11:DA:H2''	8:P:12:DA:C8	2.51	0.46
1:A:40:ARG:NE	1:B:33:THR:HG22	2.25	0.46
1:A:172:LEU:HD23	1:A:199:LYS:CB	2.44	0.46
1:B:50:ALA:HB3	1:B:168:TYR:CE1	2.50	0.46
1:B:97:LEU:CD1	1:B:110:ILE:HA	2.44	0.46
2:C:68:PRO:HA	2:C:71:ARG:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:118:PRO:HG2	2:C:121:GLU:CB	2.45	0.46
2:C:476:HIS:CD2	2:C:478:SER:H	2.33	0.46
2:C:532:THR:HG22	2:C:535:GLU:CD	2.40	0.46
2:C:648:GLY:C	2:C:695:ARG:HG3	2.40	0.46
2:C:736:ILE:HD11	2:C:916:ILE:HD12	1.96	0.46
2:C:1002:VAL:HG13	2:C:1007:LYS:O	2.15	0.46
2:C:1134:ASN:HB3	3:D:13:GLY:C	2.41	0.46
3:D:58:TRP:CD1	3:D:82:VAL:HG22	2.51	0.46
3:D:137:THR:N	3:D:253:THR:O	2.48	0.46
3:D:173:ARG:HG2	3:D:205:MET:CB	2.45	0.46
3:D:195:ARG:CD	3:D:198:ARG:HD3	2.36	0.46
3:D:343:LEU:O	3:D:347:VAL:HG23	2.16	0.46
3:D:391:VAL:N	3:D:399:LEU:HD12	2.30	0.46
3:D:497:LEU:O	3:D:543:VAL:HG13	2.16	0.46
3:D:895:ARG:NH1	3:D:967:THR:HG22	2.30	0.46
3:D:1045:PRO:CB	3:D:1111:LEU:HD22	2.43	0.46
3:D:1081:SER:O	3:D:1084:GLN:HB2	2.16	0.46
3:D:1182:ASP:HB3	3:D:1185:GLU:HB3	1.96	0.46
1:B:55:ARG:O	1:B:136:VAL:HG13	2.15	0.46
1:B:78:LEU:HD13	3:D:636:ARG:NH2	2.31	0.46
2:C:463:LEU:CD1	2:C:468:ALA:HB2	2.43	0.46
2:C:465:ARG:HH22	2:C:492:PRO:HG2	1.81	0.46
2:C:540:VAL:HG22	2:C:576:VAL:HA	1.98	0.46
2:C:795:GLU:HA	2:C:846:LYS:HD3	1.98	0.46
2:C:1041:ILE:CD1	3:D:520:LYS:HB3	2.45	0.46
2:C:1044:ARG:NH2	2:C:1048:PRO:HD2	2.31	0.46
3:D:27:GLU:CD	3:D:96:GLU:H	2.18	0.46
3:D:56:ARG:HB3	3:D:59:GLU:OE1	2.16	0.46
3:D:640:LEU:HD11	3:D:675:GLU:HG2	1.98	0.46
3:D:800:ILE:HG12	3:D:804:ASP:CG	2.41	0.46
3:D:1049:VAL:HA	3:D:1107:VAL:HG22	1.96	0.46
4:E:33:LEU:O	4:E:33:LEU:HD12	2.16	0.46
1:B:53:SER:O	1:B:139:VAL:HB	2.16	0.45
1:B:108:GLY:HA2	1:B:121:PRO:HB3	1.97	0.45
2:C:270:THR:C	2:C:274:LEU:HD23	2.41	0.45
2:C:446:LEU:HB2	2:C:713:MET:HE2	1.98	0.45
2:C:673:ARG:HB2	2:C:686:GLN:NE2	2.31	0.45
3:D:921:TYR:CE1	3:D:949:ILE:HG13	2.48	0.45
3:D:927:THR:HG23	3:D:961:LYS:HB3	1.96	0.45
3:D:1152:LYS:O	3:D:1156:VAL:HG23	2.16	0.45
3:D:1234:THR:HG23	3:D:1235:ASP:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:98:GLU:O	4:E:101:ALA:HB3	2.16	0.45
5:F:251:LYS:HE2	5:F:337:TYR:CE2	2.51	0.45
5:F:302:LEU:HA	5:F:305:SER:OG	2.16	0.45
5:F:415:GLN:C	5:F:418:ARG:HG3	2.40	0.45
7:O:6:DA:H1'	7:O:7:DC:O5'	2.16	0.45
1:A:14:LEU:HD11	1:A:20:GLN:CG	2.44	0.45
1:A:182:ARG:HA	1:A:188:ASP:CB	2.44	0.45
1:B:14:LEU:HD12	1:B:18:ARG:O	2.16	0.45
2:C:584:ARG:HH12	2:C:976:VAL:H	1.63	0.45
2:C:668:ARG:HD3	2:C:670:TYR:OH	2.16	0.45
2:C:875:GLN:HE21	2:C:877:ARG:HE	1.63	0.45
3:D:62:CYS:SG	3:D:77:ARG:NH2	2.89	0.45
3:D:310:MET:O	3:D:313:VAL:HG22	2.16	0.45
3:D:590:THR:CG2	3:D:630:ARG:HH11	2.29	0.45
3:D:886:VAL:HG22	3:D:974:VAL:HG23	1.98	0.45
3:D:890:ASP:CG	3:D:963:ARG:HH12	2.23	0.45
3:D:948:GLU:OE1	3:D:948:GLU:N	2.31	0.45
3:D:1277:GLU:O	3:D:1280:ALA:HB3	2.17	0.45
5:F:334:LYS:HD3	5:F:350:TRP:HZ2	1.77	0.45
1:A:6:ARG:NH2	1:B:217:GLU:O	2.49	0.45
1:A:177:LYS:HE2	1:A:193:ILE:HG21	1.98	0.45
1:B:30:PHE:O	1:B:34:LEU:HG	2.17	0.45
1:B:47:PRO:HG3	1:B:144:ARG:NH2	2.31	0.45
1:B:56:ILE:HG12	1:B:136:VAL:HG22	1.99	0.45
2:C:84:GLY:H	2:C:87:GLU:CD	2.24	0.45
2:C:105:LEU:HB2	2:C:139:PHE:HD1	1.82	0.45
2:C:1044:ARG:HH21	2:C:1047:GLY:CA	2.29	0.45
2:C:1067:ARG:CA	3:D:421:ARG:HA	2.47	0.45
3:D:642:PRO:CD	3:D:657:GLN:NE2	2.80	0.45
3:D:751:GLU:O	3:D:755:LYS:HE2	2.17	0.45
5:F:330:ARG:HH22	7:O:24:DG:H3'	1.81	0.45
1:B:214:THR:O	1:B:217:GLU:HB2	2.17	0.45
2:C:48:LEU:HD12	2:C:49:GLU:H	1.82	0.45
2:C:626:VAL:HA	2:C:972:VAL:O	2.17	0.45
2:C:647:SER:H	2:C:698:ALA:HB2	1.80	0.45
2:C:650:ILE:HG22	2:C:692:ALA:HA	1.97	0.45
2:C:784:LEU:HD23	2:C:788:GLY:O	2.15	0.45
2:C:851:ARG:HB3	2:C:870:ARG:HB2	1.98	0.45
2:C:944:TRP:C	2:C:993:LEU:HD23	2.42	0.45
2:C:961:ASP:O	2:C:962:GLU:HG3	2.15	0.45
2:C:1007:LYS:HE3	2:C:1022:PRO:HG2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1053:THR:OG1	2:C:1055:GLN:HG3	2.15	0.45
3:D:336:ALA:HB1	5:F:423:LEU:CD1	2.43	0.45
3:D:592:VAL:HG23	3:D:630:ARG:CB	2.46	0.45
3:D:752:ARG:O	3:D:756:VAL:HG23	2.16	0.45
3:D:938:VAL:HG13	3:D:942:GLN:OE1	2.17	0.45
5:F:511:MET:HB3	5:F:515:ARG:HH22	1.80	0.45
7:O:8:DA:H2''	7:O:9:DA:C8	2.50	0.45
1:A:32:TYR:HB2	2:C:1017:GLU:OE2	2.17	0.45
1:A:79:ASN:O	1:A:82:SER:HB3	2.17	0.45
1:A:221:LEU:O	1:A:225:LEU:HD13	2.17	0.45
1:B:55:ARG:HB3	1:B:161:ARG:CA	2.47	0.45
1:B:81:LYS:NZ	3:D:617:GLU:OE2	2.46	0.45
2:C:401:ARG:O	2:C:404:MET:HB3	2.16	0.45
2:C:447:SER:CB	2:C:613:ARG:HB2	2.46	0.45
2:C:559:VAL:HG12	2:C:560:LEU:O	2.17	0.45
2:C:598:GLU:OE1	2:C:598:GLU:N	2.31	0.45
2:C:642:VAL:C	2:C:702:ILE:HG22	2.41	0.45
2:C:689:ILE:CD1	2:C:701:VAL:HG12	2.47	0.45
2:C:756:GLU:CG	2:C:870:ARG:HG2	2.47	0.45
2:C:767:GLU:HB3	2:C:805:LYS:CE	2.40	0.45
2:C:845:GLY:HA3	2:C:874:ALA:O	2.17	0.45
2:C:981:GLN:H	2:C:984:GLU:CD	2.23	0.45
2:C:1010:LEU:O	2:C:1018:PRO:HA	2.16	0.45
2:C:1050:SER:HB3	2:C:1053:THR:O	2.16	0.45
3:D:219:LEU:O	3:D:222:ILE:HG22	2.16	0.45
3:D:239:ASN:ND2	3:D:243:GLU:OE2	2.50	0.45
3:D:441:CYS:HB3	3:D:512:PHE:HB3	1.98	0.45
3:D:499:ASN:HD22	3:D:500:ARG:N	2.14	0.45
3:D:633:ILE:O	3:D:665:GLU:HA	2.15	0.45
3:D:890:ASP:HB2	3:D:977:THR:HG21	1.97	0.45
5:F:409:LYS:O	5:F:413:ILE:HG13	2.17	0.45
5:F:415:GLN:N	5:F:418:ARG:HD2	2.31	0.45
5:F:470:ARG:O	5:F:474:VAL:HG23	2.16	0.45
8:P:14:DA:H1'	8:P:15:DC:C5'	2.47	0.45
1:B:41:THR:O	1:B:44:SER:N	2.49	0.45
1:B:81:LYS:NZ	3:D:613:SER:H	2.14	0.45
1:B:193:ILE:O	1:B:194:LEU:HD23	2.17	0.45
2:C:119:VAL:HG13	2:C:167:ILE:HD12	1.98	0.45
2:C:182:SER:HB3	2:C:377:ARG:HD2	1.98	0.45
2:C:523:VAL:HA	2:C:552:GLY:O	2.17	0.45
2:C:687:CYS:O	2:C:703:ALA:HB1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:725:PRO:CA	2:C:730:ASN:HD21	2.27	0.45
2:C:762:THR:CG2	2:C:764:LEU:HB2	2.46	0.45
3:D:131:PHE:HD1	3:D:256:MET:HG2	1.82	0.45
3:D:184:LEU:O	3:D:194:ARG:HD3	2.16	0.45
3:D:248:TYR:O	3:D:251:TYR:HB2	2.17	0.45
3:D:468:ASN:HD21	3:D:470:LYS:HB3	1.82	0.45
3:D:579:LEU:CD2	3:D:808:THR:HB	2.46	0.45
3:D:621:ALA:O	3:D:626:VAL:HB	2.16	0.45
3:D:847:LEU:H	3:D:847:LEU:HD12	1.80	0.45
3:D:947:PRO:HD2	3:D:948:GLU:OE1	2.16	0.45
3:D:1066:ILE:CD1	3:D:1075:VAL:HB	2.40	0.45
3:D:1262:THR:HB	4:E:55:ILE:HD11	1.99	0.45
6:J:28:GLN:O	6:J:43:PRO:HA	2.16	0.45
1:A:137:GLU:OE2	1:A:161:ARG:NH1	2.50	0.45
2:C:280:LYS:HB2	2:C:280:LYS:HZ2	1.81	0.45
2:C:1048:PRO:C	2:C:1056:PRO:HA	2.41	0.45
2:C:1090:THR:OG1	2:C:1115:PRO:HB3	2.16	0.45
3:D:24:SER:HA	3:D:92:MET:O	2.16	0.45
3:D:441:CYS:HB3	3:D:512:PHE:CB	2.46	0.45
3:D:581:MET:O	3:D:585:LEU:HG	2.17	0.45
3:D:705:PRO:HB2	4:E:41:ASP:OD2	2.17	0.45
3:D:1032:GLN:O	3:D:1036:GLU:HG2	2.17	0.45
3:D:1045:PRO:HD2	3:D:1112:MET:CG	2.47	0.45
4:E:81:PRO:O	4:E:82:LEU:HD23	2.17	0.45
5:F:302:LEU:N	7:O:31:DT:H1'	2.32	0.45
5:F:309:ARG:NH2	5:F:352:ARG:HD3	2.31	0.45
5:F:310:TYR:CB	5:F:313:ARG:HH21	2.30	0.45
5:F:369:PRO:O	5:F:373:VAL:HG23	2.16	0.45
6:J:97:LEU:HG	6:J:100:GLU:OE1	2.16	0.45
1:B:146:TYR:HB2	3:D:620:MET:CE	2.44	0.45
2:C:113:ASP:HB2	2:C:132:PRO:CD	2.46	0.45
2:C:206:PRO:CB	2:C:308:LEU:HB3	2.47	0.45
2:C:442:GLN:O	2:C:442:GLN:HG3	2.17	0.45
2:C:455:LEU:HG	2:C:499:SER:HA	1.98	0.45
2:C:505:ARG:O	2:C:513:GLU:N	2.50	0.45
2:C:767:GLU:OE1	2:C:805:LYS:NZ	2.35	0.45
2:C:818:GLU:O	2:C:822:ARG:HG2	2.16	0.45
2:C:821:LEU:O	2:C:825:PHE:HB2	2.17	0.45
2:C:922:VAL:HG22	2:C:930:GLN:NE2	2.32	0.45
2:C:929:GLY:HA2	2:C:932:LEU:HD12	1.98	0.45
2:C:1050:SER:CB	2:C:1053:THR:HG23	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:108:LYS:HE2	3:D:386:ARG:O	2.17	0.45
3:D:155:MET:HE1	3:D:219:LEU:HD12	1.99	0.45
3:D:886:VAL:HA	3:D:974:VAL:HG23	1.97	0.45
3:D:1045:PRO:HB2	3:D:1111:LEU:CB	2.43	0.45
5:F:258:TYR:CD1	6:J:94:LEU:HB3	2.52	0.45
5:F:348:THR:HG22	5:F:352:ARG:HE	1.82	0.45
1:A:95:MET:SD	1:A:110:ILE:HG21	2.57	0.45
1:A:107:ALA:CB	1:A:121:PRO:HA	2.44	0.45
1:A:144:ARG:HD2	1:B:1:MET:CE	2.45	0.45
2:C:182:SER:HB2	2:C:183:PRO:HD2	1.98	0.45
2:C:313:ARG:HB2	2:C:328:ILE:CG2	2.47	0.45
2:C:335:GLU:O	2:C:339:VAL:HG22	2.16	0.45
2:C:414:PRO:HA	2:C:417:LEU:HD12	1.98	0.45
2:C:672:MET:HE1	2:C:703:ALA:CB	2.46	0.45
2:C:707:CYS:HB3	2:C:715:LEU:CD2	2.47	0.45
2:C:1118:PRO:HG2	2:C:1121:PHE:HB2	1.98	0.45
3:D:27:GLU:HG3	3:D:95:ILE:HA	1.99	0.45
3:D:48:CYS:SG	3:D:50:LYS:HB3	2.57	0.45
3:D:110:VAL:HA	3:D:111:PRO:HA	1.84	0.45
3:D:136:ILE:HD11	3:D:229:LEU:HD11	1.98	0.45
3:D:912:ARG:HH21	3:D:953:LEU:CD2	2.29	0.45
3:D:913:ASP:HB3	3:D:916:ILE:CD1	2.46	0.45
3:D:1053:VAL:HG12	3:D:1103:ASP:H	1.82	0.45
3:D:1065:THR:HG23	3:D:1076:VAL:CA	2.46	0.45
5:F:261:GLN:HG2	6:J:82:TRP:CZ2	2.52	0.45
8:P:5:DC:H2''	8:P:6:DA:C8	2.51	0.45
8:P:17:DT:C2'	8:P:18:DT:H71	2.47	0.45
1:A:146:TYR:HA	1:A:166:SER:O	2.17	0.45
1:B:19:SER:HB2	1:B:204:PRO:CG	2.46	0.45
1:B:56:ILE:HG12	1:B:136:VAL:CG1	2.46	0.45
2:C:113:ASP:HB2	2:C:132:PRO:CB	2.47	0.45
2:C:230:ARG:HH22	5:F:215:ALA:N	2.15	0.45
2:C:799:GLY:H	2:C:839:VAL:HG13	1.82	0.45
3:D:295:ARG:O	3:D:298:VAL:HG22	2.17	0.45
3:D:322:PRO:HA	3:D:325:ARG:HG2	1.98	0.45
3:D:348:ILE:HG22	3:D:352:ASN:ND2	2.32	0.45
3:D:441:CYS:HB3	3:D:512:PHE:CD2	2.52	0.45
3:D:474:ARG:O	3:D:477:GLU:HB2	2.17	0.45
3:D:775:VAL:HG12	3:D:779:LYS:HE3	1.99	0.45
3:D:896:GLY:O	3:D:961:LYS:HE3	2.16	0.45
3:D:1167:ILE:O	3:D:1177:PRO:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1168:ILE:HG13	3:D:1202:ALA:HB3	1.98	0.45
3:D:1254:ILE:CD1	3:D:1256:LYS:HB3	2.47	0.45
5:F:233:LYS:O	5:F:237:LYS:HE3	2.17	0.45
1:A:26:LEU:HB2	1:A:190:ASP:CA	2.47	0.44
1:B:224:GLU:O	1:B:225:LEU:HD23	2.16	0.44
2:C:352:GLN:CB	2:C:365:VAL:HG21	2.45	0.44
2:C:1072:GLU:OE1	2:C:1072:GLU:N	2.50	0.44
3:D:34:ILE:HA	3:D:40:LYS:O	2.17	0.44
3:D:56:ARG:HA	6:J:13:ALA:O	2.16	0.44
3:D:71:LYS:O	3:D:73:ILE:HG12	2.17	0.44
3:D:360:LEU:CD2	5:F:329:ILE:HG21	2.45	0.44
3:D:406:LEU:HB2	3:D:409:LYS:CB	2.44	0.44
3:D:775:VAL:O	3:D:779:LYS:HG3	2.17	0.44
3:D:819:GLY:C	3:D:839:SER:HB3	2.42	0.44
3:D:872:TYR:OH	3:D:876:ARG:NH1	2.46	0.44
3:D:925:LEU:HD12	3:D:938:VAL:HG12	1.99	0.44
3:D:981:ARG:HD3	3:D:986:GLY:HA2	1.99	0.44
3:D:1047:ALA:HB3	3:D:1109:GLN:H	1.82	0.44
1:A:61:HIS:CD2	1:A:63:PHE:H	2.35	0.44
1:A:128:LEU:HD23	1:A:132:GLY:CA	2.47	0.44
2:C:189:GLU:HB3	2:C:200:HIS:HA	1.98	0.44
2:C:238:LEU:C	2:C:243:TRP:HB2	2.42	0.44
2:C:423:VAL:O	2:C:427:ILE:HG13	2.17	0.44
2:C:1082:ALA:CB	3:D:1258:ILE:HG12	2.47	0.44
2:C:1094:ASP:HB3	2:C:1119:GLU:HB3	2.00	0.44
3:D:384:ASN:HD22	3:D:399:LEU:HD13	1.83	0.44
3:D:406:LEU:HB2	3:D:409:LYS:CD	2.45	0.44
5:F:309:ARG:HH21	5:F:352:ARG:HD3	1.83	0.44
5:F:356:THR:O	5:F:359:MET:HB2	2.17	0.44
5:F:371:HIS:HE1	7:O:21:DT:H2'	1.82	0.44
6:J:108:ARG:HD2	6:J:109:ARG:N	2.25	0.44
2:C:109:ASP:OD2	2:C:111:ARG:HB3	2.17	0.44
2:C:230:ARG:HH22	5:F:215:ALA:H	1.65	0.44
2:C:343:GLU:O	2:C:347:ARG:HG3	2.17	0.44
2:C:407:GLN:HG3	2:C:417:LEU:HD23	1.99	0.44
2:C:560:LEU:HD22	2:C:568:VAL:HG12	1.98	0.44
2:C:905:PRO:O	2:C:913:VAL:HG13	2.18	0.44
2:C:1110:GLU:HG2	4:E:69:ASN:OD1	2.18	0.44
3:D:35:ASN:ND2	3:D:38:THR:HG22	2.32	0.44
3:D:319:VAL:HG22	3:D:344:TYR:CE1	2.53	0.44
3:D:367:VAL:O	3:D:371:LYS:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:383:ASP:HA	3:D:401:SER:CB	2.47	0.44
3:D:433:GLY:HA3	3:D:436:LEU:HD12	1.98	0.44
3:D:692:VAL:O	3:D:696:ILE:HG13	2.17	0.44
5:F:293:ASN:O	5:F:297:GLU:HG3	2.17	0.44
5:F:415:GLN:C	5:F:418:ARG:CG	2.90	0.44
5:F:415:GLN:HG2	5:F:418:ARG:HD2	1.99	0.44
7:O:25:DC:H2''	7:O:26:DT:H71	1.99	0.44
7:O:30:DC:H6	7:O:30:DC:H2'	1.65	0.44
8:P:25:DG:H2''	8:P:26:DC:C6	2.53	0.44
1:A:6:ARG:HB2	1:A:7:PRO:HD2	1.98	0.44
1:A:186:ARG:NH1	1:B:148:PRO:HB2	2.33	0.44
1:B:84:VAL:HG22	1:B:119:HIS:HD2	1.80	0.44
2:C:117:ALA:HB1	2:C:118:PRO:HD2	1.99	0.44
2:C:224:VAL:O	2:C:224:VAL:HG12	2.18	0.44
2:C:348:LEU:HD12	2:C:365:VAL:HG12	1.99	0.44
2:C:425:ALA:O	2:C:429:GLU:HG3	2.17	0.44
2:C:455:LEU:O	2:C:497:ILE:HG23	2.17	0.44
2:C:720:LEU:HD12	2:C:1026:GLY:C	2.43	0.44
2:C:1057:LEU:HD23	2:C:1062:GLN:CG	2.47	0.44
3:D:155:MET:HE1	3:D:219:LEU:HB3	1.98	0.44
3:D:412:ARG:CA	3:D:1227:GLN:HG3	2.48	0.44
3:D:480:ARG:HB3	3:D:482:GLN:NE2	2.32	0.44
3:D:622:ALA:HB2	3:D:627:LEU:HB2	1.99	0.44
3:D:648:ALA:O	3:D:652:GLY:N	2.50	0.44
3:D:924:THR:C	3:D:962:VAL:HG23	2.42	0.44
3:D:1050:THR:N	3:D:1107:VAL:HG22	2.32	0.44
3:D:1052:ARG:HA	3:D:1103:ASP:C	2.43	0.44
3:D:1208:MET:HG3	3:D:1213:ALA:CB	2.41	0.44
4:E:89:GLU:HG2	4:E:93:SER:HB3	1.99	0.44
5:F:415:GLN:HB3	5:F:418:ARG:HD3	1.96	0.44
6:J:33:ARG:CZ	6:J:37:GLY:HA2	2.48	0.44
8:P:17:DT:H2''	8:P:18:DT:OP2	2.18	0.44
2:C:244:THR:O	2:C:248:ILE:HG13	2.18	0.44
2:C:308:LEU:HD21	2:C:313:ARG:CD	2.47	0.44
2:C:354:THR:CA	2:C:365:VAL:HG23	2.47	0.44
2:C:647:SER:CA	2:C:697:GLU:HA	2.46	0.44
2:C:792:ILE:CD1	2:C:850:ILE:HD12	2.48	0.44
2:C:902:GLU:HG2	2:C:903:ASP:N	2.32	0.44
3:D:5:ASN:O	3:D:5:ASN:ND2	2.50	0.44
3:D:263:LYS:HA	3:D:266:GLU:CD	2.43	0.44
3:D:468:ASN:ND2	5:F:525:ASP:HB3	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:485:ASP:O	3:D:488:GLU:HB3	2.18	0.44
3:D:496:VAL:O	3:D:497:LEU:HD23	2.17	0.44
3:D:662:TRP:HZ3	3:D:664:ALA:HB2	1.79	0.44
3:D:1207:LEU:HD22	3:D:1208:MET:N	2.27	0.44
5:F:252:ARG:NE	5:F:287:ASP:OD2	2.47	0.44
5:F:309:ARG:HG3	5:F:310:TYR:CD1	2.52	0.44
5:F:332:VAL:HB	5:F:343:PHE:HZ	1.82	0.44
8:P:9:DT:C2'	8:P:10:DT:H71	2.47	0.44
1:A:51:VAL:HA	1:A:140:VAL:HA	1.98	0.44
1:B:15:THR:HG22	1:B:18:ARG:HB3	2.00	0.44
1:B:213:LYS:O	1:B:217:GLU:HG3	2.17	0.44
2:C:97:GLU:OE2	2:C:142:ASN:ND2	2.50	0.44
2:C:103:MET:HA	2:C:141:ASN:HA	2.00	0.44
2:C:217:ASP:HB2	2:C:221:THR:OG1	2.18	0.44
2:C:308:LEU:HD21	2:C:313:ARG:HD3	1.99	0.44
2:C:338:VAL:O	2:C:342:ILE:HG13	2.18	0.44
2:C:1049:TYR:CG	2:C:1056:PRO:HG3	2.53	0.44
2:C:1131:LEU:HD21	3:D:402:LEU:CB	2.48	0.44
2:C:1131:LEU:C	2:C:1133:LEU:HG	2.42	0.44
3:D:131:PHE:HA	3:D:256:MET:SD	2.58	0.44
3:D:144:ARG:NH1	3:D:229:LEU:HB3	2.32	0.44
3:D:212:ALA:C	3:D:215:GLU:HG2	2.42	0.44
3:D:263:LYS:O	3:D:266:GLU:HB2	2.18	0.44
3:D:453:LYS:HA	3:D:456:VAL:HG12	1.99	0.44
3:D:484:TRP:O	3:D:487:LEU:HB3	2.17	0.44
3:D:637:LEU:HB2	3:D:662:TRP:CE2	2.51	0.44
3:D:789:LEU:CD2	3:D:815:ARG:HA	2.48	0.44
3:D:1169:ASP:N	3:D:1202:ALA:HB3	2.32	0.44
3:D:1183:ARG:O	3:D:1187:GLU:HG3	2.18	0.44
5:F:240:LEU:HD22	7:O:31:DT:C4	2.52	0.44
5:F:249:LEU:HD22	5:F:291:ALA:CB	2.42	0.44
6:J:4:ARG:HD3	6:J:5:VAL:O	2.17	0.44
2:C:40:SER:HA	2:C:973:SER:O	2.18	0.44
2:C:113:ASP:HB2	2:C:132:PRO:CG	2.48	0.44
2:C:455:LEU:O	2:C:497:ILE:HA	2.17	0.44
2:C:507:ASN:CG	2:C:509:PHE:H	2.25	0.44
2:C:543:GLN:O	2:C:546:SER:OG	2.25	0.44
2:C:544:ALA:CB	2:C:580:ASP:HB2	2.39	0.44
2:C:724:MET:HE2	2:C:725:PRO:O	2.17	0.44
2:C:884:LYS:O	2:C:1033:LEU:HD13	2.18	0.44
3:D:69:ARG:CA	6:J:20:ARG:HH22	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:148:LEU:O	3:D:152:GLU:HG2	2.18	0.44
3:D:305:SER:HB2	3:D:307:ASN:ND2	2.31	0.44
3:D:765:LEU:HD12	3:D:770:ARG:N	2.33	0.44
3:D:898:VAL:HG12	3:D:961:LYS:CA	2.47	0.44
3:D:1050:THR:HG22	3:D:1106:GLU:CA	2.33	0.44
3:D:1123:ARG:HG3	3:D:1204:ARG:HH22	1.82	0.44
3:D:1165:VAL:HA	3:D:1206:VAL:HG22	1.99	0.44
5:F:440:GLU:H	6:J:6:LEU:C	2.17	0.44
6:J:32:TYR:CD2	6:J:54:TRP:HB3	2.52	0.44
8:P:15:DC:H1'	8:P:16:DT:H5'	1.99	0.44
1:A:9:LEU:HD13	1:B:221:LEU:O	2.17	0.44
1:A:95:MET:CG	1:A:138:LEU:HB2	2.48	0.44
1:B:96:TYR:O	1:B:111:VAL:HG12	2.17	0.44
1:B:96:TYR:CE1	1:B:137:GLU:HG2	2.52	0.44
2:C:40:SER:OG	2:C:975:PRO:HD3	2.18	0.44
2:C:41:PHE:CE1	2:C:963:LEU:HD13	2.53	0.44
2:C:64:LEU:CD1	2:C:385:ILE:HB	2.48	0.44
2:C:660:VAL:HG22	2:C:668:ARG:C	2.42	0.44
3:D:36:TYR:CD2	3:D:37:ARG:HB2	2.52	0.44
3:D:71:LYS:CA	3:D:82:VAL:HG13	2.40	0.44
3:D:285:LYS:O	3:D:288:LYS:HB3	2.18	0.44
3:D:327:MET:HA	3:D:336:ALA:O	2.18	0.44
3:D:383:ASP:HB2	3:D:403:SER:OG	2.18	0.44
3:D:447:MET:O	3:D:451:LEU:HD23	2.18	0.44
3:D:767:HIS:CE1	3:D:771:ASN:HD21	2.35	0.44
3:D:1190:ASN:O	3:D:1193:VAL:HG12	2.17	0.44
3:D:1195:ALA:O	3:D:1196:GLU:HB2	2.17	0.44
5:F:342:LYS:CG	7:O:29:DA:H3'	2.48	0.44
1:A:95:MET:SD	1:A:138:LEU:HD22	2.57	0.44
1:B:8:THR:N	1:B:24:GLU:O	2.47	0.44
2:C:140:ILE:HD11	2:C:147:ILE:HG22	2.00	0.44
2:C:147:ILE:O	2:C:147:ILE:HG13	2.18	0.44
2:C:245:SER:CB	2:C:262:LEU:HD21	2.38	0.44
2:C:274:LEU:HD12	2:C:292:ALA:HB1	2.00	0.44
2:C:290:GLU:C	2:C:294:THR:HG1	2.24	0.44
2:C:317:ASN:ND2	2:C:323:HIS:HB2	2.33	0.44
2:C:395:ARG:HA	2:C:398:ARG:NE	2.30	0.44
2:C:633:ARG:O	2:C:636:ILE:HG12	2.17	0.44
2:C:802:LEU:HB2	2:C:837:LEU:HG	2.00	0.44
2:C:906:PHE:CD2	2:C:910:GLY:HA2	2.53	0.44
3:D:590:THR:HB	3:D:687:GLN:NE2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:895:ARG:NH2	3:D:967:THR:HA	2.33	0.44
3:D:931:ASP:O	3:D:934:GLY:N	2.50	0.44
4:E:60:ARG:NH1	4:E:64:ILE:HG13	2.33	0.44
5:F:280:ASP:O	5:F:284:ILE:HG12	2.16	0.44
1:A:177:LYS:HE3	1:A:193:ILE:HD13	2.00	0.43
2:C:505:ARG:HG2	2:C:506:VAL:N	2.33	0.43
2:C:588:SER:OG	2:C:591:THR:OG1	2.31	0.43
3:D:173:ARG:HG2	3:D:205:MET:N	2.32	0.43
3:D:212:ALA:HA	3:D:215:GLU:OE2	2.17	0.43
3:D:328:VAL:HG12	3:D:336:ALA:HB3	1.98	0.43
3:D:328:VAL:HG22	3:D:329:GLN:H	1.83	0.43
3:D:443:LEU:HD21	3:D:448:ALA:CB	2.37	0.43
3:D:571:GLY:HA3	3:D:983:MET:HE3	1.99	0.43
3:D:642:PRO:HB2	3:D:643:PRO:HD2	1.99	0.43
3:D:693:GLN:O	3:D:697:ILE:HG13	2.18	0.43
3:D:929:ALA:O	3:D:937:ILE:HG22	2.18	0.43
3:D:1160:GLN:O	3:D:1163:ARG:HG2	2.18	0.43
3:D:1172:SER:H	3:D:1199:GLU:HG3	1.83	0.43
3:D:1210:ILE:HG13	3:D:1211:THR:N	2.32	0.43
5:F:278:ARG:O	5:F:281:MET:HG2	2.18	0.43
5:F:300:LEU:HA	5:F:303:VAL:CG2	2.48	0.43
5:F:351:ILE:O	5:F:355:ILE:HG13	2.17	0.43
5:F:405:ILE:HD12	5:F:409:LYS:HG3	2.00	0.43
7:O:1:DG:H2''	7:O:2:DC:C5'	2.47	0.43
7:O:12:DG:H2''	7:O:13:DT:H5'	2.00	0.43
8:P:21:DT:OP1	8:P:21:DT:H3'	2.18	0.43
1:A:173:LYS:HG2	1:A:174:VAL:N	2.33	0.43
1:B:99:LYS:O	1:B:133:LYS:HA	2.18	0.43
2:C:158:PRO:HG2	2:C:431:PHE:CZ	2.53	0.43
2:C:396:MET:HE2	2:C:419:ASN:H	1.83	0.43
2:C:833:ARG:NH1	2:C:835:THR:HG22	2.33	0.43
3:D:70:PHE:CA	3:D:73:ILE:HD11	2.47	0.43
3:D:73:ILE:HG23	6:J:27:ARG:HH11	1.83	0.43
3:D:425:SER:HA	3:D:543:VAL:O	2.18	0.43
3:D:457:MET:CE	3:D:473:LYS:HB2	2.48	0.43
3:D:494:HIS:HE2	3:D:545:LEU:HD11	1.82	0.43
3:D:515:MET:O	3:D:517:VAL:HG23	2.19	0.43
3:D:1065:THR:CG2	3:D:1076:VAL:HG22	2.48	0.43
3:D:1143:ARG:C	3:D:1146:GLY:H	2.26	0.43
4:E:60:ARG:O	4:E:63:GLN:HB2	2.18	0.43
5:F:342:LYS:H	7:O:29:DA:P	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:75:GLU:OE2	1:B:78:LEU:HD11	2.18	0.43
2:C:105:LEU:HD12	2:C:138:GLU:C	2.42	0.43
2:C:238:LEU:O	2:C:243:TRP:N	2.51	0.43
2:C:760:ARG:N	2:C:767:GLU:OE1	2.47	0.43
2:C:922:VAL:HG13	2:C:927:ASN:OD1	2.18	0.43
2:C:993:LEU:HA	2:C:994:PRO:HD3	1.93	0.43
2:C:1087:GLU:O	2:C:1091:ILE:HG12	2.18	0.43
3:D:797:ASN:HD22	3:D:798:PRO:HD2	1.82	0.43
3:D:900:GLU:O	3:D:958:THR:HB	2.18	0.43
3:D:912:ARG:HH21	3:D:953:LEU:HD22	1.82	0.43
3:D:931:ASP:OD1	3:D:932:GLU:HG3	2.17	0.43
5:F:445:VAL:CG1	5:F:447:ALA:H	2.30	0.43
6:J:31:ARG:O	6:J:65:ILE:HB	2.19	0.43
6:J:58:ASN:ND2	6:J:60:MET:HE3	2.32	0.43
1:A:26:LEU:HD12	1:A:191:LYS:N	2.33	0.43
1:A:45:SER:HB3	1:B:232:ILE:HD12	2.00	0.43
1:A:152:ASN:OD1	1:A:157:ALA:HB3	2.18	0.43
2:C:381:VAL:HG13	2:C:382:GLY:N	2.33	0.43
2:C:401:ARG:HA	2:C:404:MET:CB	2.47	0.43
2:C:519:VAL:HG12	2:C:577:ASP:C	2.43	0.43
2:C:1049:TYR:CA	2:C:1056:PRO:HA	2.47	0.43
3:D:397:ARG:CG	3:D:398:PRO:HD2	2.48	0.43
3:D:499:ASN:CG	3:D:509:ILE:HD11	2.44	0.43
3:D:512:PHE:CE1	3:D:561:SER:HB2	2.53	0.43
3:D:633:ILE:HG12	3:D:666:THR:O	2.19	0.43
3:D:1049:VAL:C	3:D:1107:VAL:HA	2.43	0.43
3:D:1052:ARG:HA	3:D:1103:ASP:O	2.18	0.43
3:D:1183:ARG:HG2	3:D:1187:GLU:OE2	2.18	0.43
3:D:1186:PHE:O	3:D:1190:ASN:ND2	2.51	0.43
3:D:1248:LEU:HA	3:D:1259:PRO:CD	2.48	0.43
3:D:1276:GLU:HA	3:D:1279:ARG:HB2	1.99	0.43
5:F:480:GLY:HA2	5:F:483:ASP:OD1	2.18	0.43
7:O:16:DT:H2"	7:O:17:DA:C8	2.54	0.43
2:C:89:VAL:O	2:C:92:GLU:HG2	2.18	0.43
2:C:175:VAL:HA	2:C:436:LEU:O	2.18	0.43
2:C:473:ARG:NH1	2:C:496:LEU:HG	2.33	0.43
2:C:1074:TRP:CZ2	3:D:878:VAL:HB	2.53	0.43
3:D:58:TRP:N	3:D:83:THR:O	2.49	0.43
3:D:118:LEU:O	3:D:232:LYS:HE2	2.18	0.43
3:D:334:ARG:HG2	3:D:334:ARG:HH11	1.83	0.43
3:D:557:ILE:HD13	4:E:53:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:887:ARG:NH1	3:D:972:THR:HB	2.33	0.43
4:E:60:ARG:HH22	4:E:80:GLY:HA3	1.82	0.43
5:F:487:ARG:HB3	5:F:491:GLU:CB	2.43	0.43
8:P:7:DA:H2''	8:P:8:DT:OP2	2.19	0.43
8:P:15:DC:H1'	8:P:16:DT:O5'	2.17	0.43
8:P:21:DT:H1'	8:P:22:DC:C5'	2.46	0.43
8:P:25:DG:H2''	8:P:26:DC:OP2	2.18	0.43
1:A:57:ASP:OD1	1:A:58:GLY:N	2.51	0.43
1:B:8:THR:O	1:B:23:ILE:HG23	2.17	0.43
1:B:9:LEU:HA	1:B:23:ILE:HG12	2.01	0.43
2:C:115:VAL:HG12	2:C:159:MET:HG3	1.99	0.43
2:C:308:LEU:O	2:C:331:SER:HB2	2.19	0.43
2:C:442:GLN:HE21	2:C:679:ASN:N	2.16	0.43
2:C:540:VAL:CG2	2:C:576:VAL:HG22	2.48	0.43
2:C:736:ILE:CD1	2:C:916:ILE:HD12	2.48	0.43
2:C:1049:TYR:CE2	2:C:1056:PRO:HG3	2.53	0.43
3:D:144:ARG:HH12	3:D:229:LEU:N	2.17	0.43
3:D:480:ARG:HB3	3:D:482:GLN:HE22	1.84	0.43
3:D:487:LEU:HG	3:D:491:ILE:CD1	2.48	0.43
3:D:596:THR:HG22	3:D:626:VAL:O	2.18	0.43
3:D:1033:GLU:HA	3:D:1036:GLU:CG	2.48	0.43
3:D:1055:LEU:HB3	3:D:1101:ASP:CA	2.48	0.43
3:D:1060:ARG:HG2	3:D:1061:PHE:HD1	1.82	0.43
3:D:1110:GLN:HG2	3:D:1112:MET:O	2.17	0.43
3:D:1137:GLU:O	3:D:1140:GLU:HB3	2.19	0.43
3:D:1267:TYR:O	4:E:55:ILE:HG21	2.18	0.43
5:F:258:TYR:CE2	6:J:98:LEU:HD22	2.53	0.43
5:F:276:ALA:HA	5:F:279:ARG:HE	1.81	0.43
5:F:305:SER:O	5:F:308:LYS:HG2	2.18	0.43
5:F:330:ARG:O	5:F:333:GLU:HB2	2.18	0.43
1:A:14:LEU:CG	1:A:19:SER:HA	2.49	0.43
1:A:26:LEU:HD12	1:A:190:ASP:C	2.43	0.43
1:A:176:TYR:CB	1:A:194:LEU:HA	2.48	0.43
1:B:21:PHE:CB	1:B:194:LEU:HB2	2.33	0.43
1:B:51:VAL:HA	1:B:140:VAL:CG2	2.47	0.43
1:B:149:ALA:HA	1:B:164:VAL:O	2.18	0.43
2:C:204:VAL:O	2:C:206:PRO:HD3	2.19	0.43
2:C:354:THR:HB	2:C:364:PRO:HA	2.01	0.43
2:C:673:ARG:H	2:C:686:GLN:CD	2.24	0.43
2:C:721:VAL:O	2:C:1025:VAL:HA	2.19	0.43
2:C:736:ILE:HD11	2:C:916:ILE:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:860:GLU:C	2:C:861:LEU:HD12	2.43	0.43
2:C:952:VAL:CG1	2:C:956:ALA:HB3	2.49	0.43
2:C:977:PHE:CZ	3:D:846:VAL:HG22	2.54	0.43
2:C:1079:TYR:O	3:D:558:LEU:HD23	2.19	0.43
3:D:127:LYS:HB3	3:D:132:ALA:HB3	2.00	0.43
3:D:166:ARG:HB2	3:D:212:ALA:CB	2.48	0.43
3:D:637:LEU:HA	3:D:637:LEU:HD23	1.81	0.43
3:D:706:MET:O	3:D:709:VAL:HB	2.18	0.43
3:D:759:GLN:HA	3:D:762:ARG:CG	2.48	0.43
5:F:262:LEU:HD23	5:F:266:LEU:HD13	2.00	0.43
5:F:387:LEU:HD12	5:F:392:ARG:C	2.43	0.43
8:P:10:DT:H4'	8:P:11:DA:OP1	2.18	0.43
1:A:24:GLU:HA	1:A:26:LEU:CD2	2.48	0.43
1:A:98:ARG:HD2	1:A:135:GLU:HG2	2.01	0.43
1:A:212:GLY:O	1:A:216:VAL:HG23	2.19	0.43
1:B:73:VAL:O	1:B:76:ILE:HB	2.19	0.43
1:B:102:PRO:HD3	1:B:131:LYS:H	1.83	0.43
2:C:622:GLU:HB3	2:C:717:LYS:CD	2.48	0.43
2:C:806:VAL:HG23	2:C:833:ARG:O	2.18	0.43
3:D:591:GLU:OE2	3:D:632:LYS:HB2	2.19	0.43
3:D:725:THR:OG1	3:D:726:ARG:NH1	2.50	0.43
3:D:824:VAL:CG1	3:D:851:ILE:HG22	2.48	0.43
3:D:1125:GLN:HB2	3:D:1129:GLU:HG2	2.00	0.43
3:D:1208:MET:HE3	3:D:1213:ALA:CB	2.46	0.43
5:F:415:GLN:O	5:F:418:ARG:CG	2.67	0.43
8:P:1:DA:H1'	8:P:2:DG:H5'	2.00	0.43
1:A:22:VAL:HG23	1:A:192:LEU:C	2.44	0.43
1:A:64:THR:O	1:A:73:VAL:HG23	2.18	0.43
1:A:172:LEU:HB2	1:A:199:LYS:CB	2.45	0.43
1:A:177:LYS:CG	1:A:193:ILE:HB	2.49	0.43
1:B:84:VAL:HG12	1:B:120:ASN:CG	2.44	0.43
1:B:102:PRO:HB3	1:B:130:ASP:HA	1.99	0.43
1:B:103:GLY:C	1:B:128:LEU:HB2	2.44	0.43
2:C:399:VAL:O	2:C:402:GLU:HB3	2.18	0.43
2:C:484:CYS:HB3	2:C:588:SER:HB3	1.99	0.43
2:C:628:THR:H	2:C:631:GLU:CD	2.20	0.43
2:C:907:LEU:HG	2:C:911:THR:O	2.19	0.43
3:D:69:ARG:CB	6:J:20:ARG:HH22	2.32	0.43
3:D:319:VAL:HG22	3:D:344:TYR:HE1	1.83	0.43
3:D:411:GLY:HA2	3:D:1228:GLU:N	2.33	0.43
3:D:666:THR:HG22	3:D:685:ASN:CG	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1065:THR:OG1	3:D:1076:VAL:HG13	2.19	0.43
3:D:1220:TRP:O	3:D:1223:ALA:HB3	2.19	0.43
3:D:1221:LEU:HD11	11:D:1404:C0L:C04	2.49	0.43
1:A:53:SER:HB2	1:A:163:PRO:HA	1.99	0.43
1:B:18:ARG:HA	1:B:197:GLU:HA	2.01	0.43
1:B:105:VAL:HB	1:B:126:ALA:HB3	2.00	0.43
2:C:414:PRO:C	2:C:417:LEU:H	2.27	0.43
2:C:463:LEU:O	2:C:463:LEU:HD12	2.19	0.43
2:C:476:HIS:HB3	2:C:479:HIS:CD2	2.53	0.43
2:C:646:GLU:OE1	2:C:662:HIS:HB3	2.19	0.43
2:C:853:PHE:HD2	2:C:868:LEU:HD12	1.83	0.43
3:D:127:LYS:CB	3:D:132:ALA:HB3	2.48	0.43
3:D:425:SER:OG	3:D:426:GLY:N	2.51	0.43
3:D:550:GLU:OE1	3:D:550:GLU:N	2.44	0.43
3:D:556:ARG:HH12	4:E:35:ILE:HD12	1.83	0.43
3:D:1086:LEU:HD23	3:D:1099:LEU:HB3	2.01	0.43
4:E:80:GLY:HA2	4:E:81:PRO:C	2.43	0.43
5:F:234:GLN:HA	5:F:237:LYS:HD2	2.01	0.43
5:F:241:LEU:CB	5:F:245:GLU:HG3	2.44	0.43
6:J:88:ARG:HG3	6:J:89:ARG:HG2	2.00	0.43
7:O:10:DA:H2"	7:O:11:DA:C8	2.54	0.43
1:A:14:LEU:H	1:A:19:SER:HA	1.84	0.42
2:C:189:GLU:N	2:C:189:GLU:OE1	2.52	0.42
2:C:691:ASP:HB2	2:C:694:ASP:CG	2.44	0.42
2:C:802:LEU:HD12	2:C:837:LEU:CG	2.38	0.42
2:C:1011:PHE:HD1	2:C:1018:PRO:HA	1.84	0.42
3:D:101:VAL:HG13	3:D:375:GLN:NE2	2.34	0.42
3:D:180:ASP:HB3	3:D:197:VAL:CG1	2.49	0.42
3:D:281:ILE:HG21	3:D:293:LEU:HD23	2.01	0.42
3:D:445:LYS:HA	3:D:516:LEU:CD2	2.45	0.42
3:D:487:LEU:HA	3:D:490:VAL:CG2	2.49	0.42
3:D:1068:PRO:HD3	3:D:1074:GLU:HG2	2.01	0.42
3:D:1268:ARG:HD2	3:D:1268:ARG:O	2.19	0.42
5:F:269:ARG:HD2	5:F:269:ARG:O	2.19	0.42
1:A:54:ILE:HD12	1:A:136:VAL:HG21	2.01	0.42
2:C:220:ASP:OD1	2:C:257:ILE:HG12	2.19	0.42
2:C:222:VAL:HB	2:C:224:VAL:CG2	2.49	0.42
2:C:274:LEU:CD1	2:C:292:ALA:HB1	2.49	0.42
2:C:587:VAL:HG22	2:C:591:THR:HB	2.01	0.42
2:C:651:GLU:HB3	2:C:659:THR:C	2.44	0.42
2:C:660:VAL:HG21	2:C:670:TYR:HE2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1131:LEU:HB2	2:C:1133:LEU:CD1	2.50	0.42
3:D:110:VAL:O	3:D:110:VAL:HG13	2.18	0.42
3:D:345:ARG:O	3:D:349:ASN:ND2	2.52	0.42
3:D:640:LEU:O	3:D:657:GLN:CG	2.46	0.42
3:D:797:ASN:HD21	3:D:799:ILE:HD12	1.84	0.42
3:D:822:GLY:O	3:D:835:PRO:HB2	2.19	0.42
5:F:258:TYR:HD1	6:J:82:TRP:HH2	1.67	0.42
5:F:386:LEU:CB	5:F:394:PRO:HG2	2.49	0.42
5:F:395:THR:O	5:F:399:LEU:HG	2.18	0.42
5:F:410:VAL:HA	5:F:413:ILE:HD12	2.01	0.42
6:J:85:LEU:O	6:J:89:ARG:N	2.52	0.42
6:J:91:ILE:O	6:J:94:LEU:HB2	2.19	0.42
1:A:24:GLU:OE1	1:A:191:LYS:HD2	2.19	0.42
1:A:43:LEU:HD21	2:C:901:VAL:CG1	2.48	0.42
1:A:104:GLU:HG3	1:A:124:HIS:CD2	2.53	0.42
1:A:161:ARG:O	1:A:162:ILE:HD13	2.18	0.42
1:A:213:LYS:HE2	1:B:223:ARG:NH2	2.34	0.42
1:B:18:ARG:HB2	1:B:197:GLU:HG3	2.01	0.42
1:B:32:TYR:CE1	2:C:1014:ARG:HD3	2.54	0.42
1:B:39:ARG:HD2	1:B:176:TYR:HE1	1.84	0.42
1:B:89:GLU:OE1	1:B:89:GLU:N	2.52	0.42
1:B:104:GLU:CA	1:B:128:LEU:HD13	2.49	0.42
1:B:106:THR:HA	1:B:125:ILE:N	2.33	0.42
1:B:134:LEU:HD21	1:B:136:VAL:CG2	2.49	0.42
2:C:122:CYS:HB3	2:C:127:MET:O	2.18	0.42
2:C:483:MET:HE3	2:C:498:GLY:CA	2.50	0.42
2:C:955:TRP:HA	2:C:958:ARG:NH1	2.32	0.42
2:C:1049:TYR:HA	2:C:1055:GLN:C	2.44	0.42
2:C:1050:SER:HB3	2:C:1053:THR:C	2.45	0.42
3:D:138:SER:OG	3:D:139:VAL:N	2.53	0.42
3:D:240:LEU:O	3:D:244:LEU:HB2	2.19	0.42
3:D:261:ILE:O	3:D:265:ILE:HG13	2.20	0.42
3:D:500:ARG:N	3:D:541:MET:HE3	2.34	0.42
3:D:1118:PRO:HA	3:D:1121:VAL:CG1	2.49	0.42
3:D:1157:ILE:HG22	3:D:1161:MET:CE	2.43	0.42
3:D:1220:TRP:CB	3:D:1241:ARG:HH21	2.28	0.42
3:D:1244:LYS:HB3	3:D:1246:ASN:ND2	2.34	0.42
5:F:329:ILE:O	5:F:332:VAL:HG12	2.20	0.42
5:F:442:SER:HB3	6:J:7:ARG:CD	2.36	0.42
5:F:493:GLY:O	5:F:497:GLY:N	2.52	0.42
5:F:507:GLU:HA	5:F:510:THR:OG1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:20:DT:C6	7:O:21:DT:H72	2.54	0.42
1:A:87:SER:OG	1:A:88:GLU:N	2.53	0.42
1:B:50:ALA:N	1:B:141:GLU:O	2.40	0.42
2:C:200:HIS:ND1	2:C:349:HIS:HB2	2.35	0.42
2:C:344:TYR:CE1	2:C:363:VAL:HG23	2.53	0.42
2:C:353:THR:C	2:C:365:VAL:H	2.27	0.42
2:C:600:ASP:OD1	2:C:928:ILE:N	2.53	0.42
2:C:714:ALA:O	2:C:715:LEU:HD23	2.19	0.42
2:C:741:LEU:O	2:C:745:ASP:N	2.53	0.42
3:D:87:VAL:O	3:D:90:GLU:N	2.37	0.42
3:D:445:LYS:O	3:D:449:LEU:HB2	2.19	0.42
3:D:453:LYS:HA	3:D:456:VAL:CG1	2.49	0.42
3:D:676:LEU:HD12	3:D:715:LYS:HB3	2.01	0.42
3:D:826:ASN:O	3:D:829:GLY:N	2.51	0.42
3:D:1077:TYR:O	3:D:1080:ILE:HD11	2.19	0.42
3:D:1156:VAL:O	3:D:1159:ARG:HB3	2.19	0.42
6:J:32:TYR:O	6:J:39:GLU:HA	2.19	0.42
2:C:278:TYR:CE1	2:C:282:ARG:CD	2.98	0.42
2:C:626:VAL:CG1	2:C:888:ARG:HH22	2.33	0.42
2:C:1072:GLU:O	2:C:1076:MET:HG3	2.20	0.42
3:D:212:ALA:CA	3:D:215:GLU:HG2	2.49	0.42
3:D:420:LYS:HZ1	11:D:1404:C0L:C23	2.31	0.42
3:D:503:THR:HG21	3:D:508:GLY:HA3	2.00	0.42
3:D:797:ASN:O	3:D:801:THR:N	2.48	0.42
3:D:974:VAL:HG12	3:D:1159:ARG:HH12	1.84	0.42
3:D:1075:VAL:HG12	3:D:1077:TYR:CE2	2.54	0.42
3:D:1125:GLN:CB	3:D:1129:GLU:HG2	2.50	0.42
3:D:1198:GLY:O	3:D:1200:PRO:HD3	2.19	0.42
5:F:336:ASP:OD1	5:F:337:TYR:N	2.52	0.42
5:F:473:GLY:O	5:F:477:LEU:HG	2.19	0.42
7:O:22:DG:H2''	7:O:23:DT:O5'	2.20	0.42
1:A:105:VAL:HG12	1:A:125:ILE:CD1	2.46	0.42
1:B:120:ASN:N	1:B:121:PRO:HD3	2.35	0.42
3:D:169:GLU:OE1	3:D:208:ILE:HG23	2.20	0.42
3:D:420:LYS:HZ1	11:D:1404:C0L:C16	2.32	0.42
3:D:596:THR:HB	3:D:628:SER:HB2	2.01	0.42
3:D:601:PRO:HA	3:D:608:GLU:HB3	2.01	0.42
3:D:601:PRO:HA	3:D:608:GLU:HA	2.01	0.42
3:D:725:THR:OG1	3:D:726:ARG:HD2	2.19	0.42
3:D:1061:PHE:CE2	3:D:1063:LYS:HE2	2.55	0.42
3:D:1064:ILE:HG22	3:D:1065:THR:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1118:PRO:HA	3:D:1121:VAL:HG12	2.01	0.42
3:D:1251:ASN:HA	3:D:1254:ILE:CD1	2.49	0.42
7:O:12:DG:H2''	7:O:13:DT:C5'	2.49	0.42
8:P:21:DT:H2''	8:P:22:DC:OP2	2.19	0.42
1:A:46:ILE:CG2	1:A:170:PRO:HG2	2.46	0.42
1:A:104:GLU:HG3	1:A:124:HIS:HD2	1.84	0.42
1:A:177:LYS:HE3	1:A:193:ILE:HD12	2.01	0.42
1:B:34:LEU:HD12	1:B:35:GLY:N	2.35	0.42
1:B:86:SER:HB3	1:B:117:THR:CG2	2.50	0.42
2:C:255:SER:HB3	2:C:258:MET:CB	2.50	0.42
2:C:377:ARG:HA	2:C:511:PHE:CE1	2.55	0.42
2:C:453:ARG:NH2	2:C:500:LEU:HB2	2.34	0.42
2:C:560:LEU:HA	2:C:560:LEU:HD23	1.91	0.42
2:C:723:ILE:O	2:C:723:ILE:HG22	2.20	0.42
2:C:771:ARG:HG3	2:C:788:GLY:H	1.84	0.42
2:C:1112:ILE:HG23	2:C:1113:PRO:HD2	2.01	0.42
3:D:410:GLN:O	3:D:1228:GLU:N	2.53	0.42
3:D:599:TYR:HD1	3:D:610:GLY:HA3	1.84	0.42
3:D:1199:GLU:N	3:D:1199:GLU:OE1	2.53	0.42
4:E:101:ALA:HB1	4:E:103:LEU:HD13	2.01	0.42
1:A:218:LEU:O	1:A:221:LEU:HB3	2.20	0.42
1:B:3:ILE:HB	1:B:233:GLU:O	2.20	0.42
1:B:113:PRO:HD2	1:B:116:VAL:HG21	2.02	0.42
2:C:185:VAL:O	2:C:185:VAL:HG23	2.19	0.42
2:C:322:LEU:HD23	2:C:357:VAL:HG11	2.00	0.42
2:C:583:PRO:HB2	2:C:584:ARG:HE	1.84	0.42
2:C:796:VAL:HG22	2:C:845:GLY:O	2.19	0.42
2:C:875:GLN:HE21	2:C:877:ARG:HH21	1.68	0.42
2:C:1009:MET:O	2:C:1010:LEU:HD23	2.19	0.42
3:D:50:LYS:HG3	3:D:79:GLY:O	2.19	0.42
3:D:52:PHE:HB2	3:D:88:ARG:NH1	2.35	0.42
3:D:937:ILE:HD13	3:D:952:LEU:HD23	2.02	0.42
3:D:940:ARG:NH1	3:D:963:ARG:HH21	2.17	0.42
3:D:1079:LYS:HD3	3:D:1079:LYS:HA	1.89	0.42
3:D:1119:HIS:CE1	3:D:1207:LEU:HD12	2.55	0.42
6:J:76:LYS:H	6:J:76:LYS:HD3	1.83	0.42
7:O:5:DG:H1'	7:O:6:DA:C5'	2.50	0.42
1:B:1:MET:CB	1:B:232:ILE:HG12	2.49	0.42
1:B:7:PRO:CA	1:B:25:PRO:HD2	2.43	0.42
1:B:97:LEU:HD12	1:B:97:LEU:HA	1.79	0.42
2:C:515:PRO:HA	2:C:529:VAL:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:697:GLU:OE1	2:C:697:GLU:N	2.53	0.42
2:C:851:ARG:O	2:C:869:VAL:HA	2.20	0.42
2:C:862:PRO:O	2:C:865:VAL:HB	2.20	0.42
3:D:137:THR:HG22	3:D:253:THR:C	2.45	0.42
3:D:155:MET:CE	3:D:219:LEU:HB3	2.50	0.42
3:D:277:LEU:HD21	3:D:295:ARG:NH1	2.34	0.42
3:D:1120:GLU:O	3:D:1124:VAL:HG23	2.20	0.42
5:F:262:LEU:HA	5:F:265:GLU:HG2	2.00	0.42
5:F:345:THR:OG1	7:O:29:DA:H2'	2.19	0.42
6:J:65:ILE:HG23	6:J:66:GLU:HG2	2.01	0.42
8:P:6:DA:OP2	8:P:6:DA:H2'	2.19	0.42
1:A:14:LEU:N	1:A:19:SER:HA	2.35	0.42
1:B:164:VAL:HG23	1:B:165:ASP:O	2.20	0.42
1:B:172:LEU:HB2	1:B:197:GLU:O	2.20	0.42
1:B:192:LEU:HD12	1:B:193:ILE:N	2.34	0.42
2:C:70:TRP:HH2	2:C:83:VAL:N	2.18	0.42
2:C:254:PHE:HE2	2:C:347:ARG:HG2	1.84	0.42
2:C:413:THR:O	2:C:416:THR:N	2.53	0.42
2:C:419:ASN:HD21	2:C:421:ARG:CG	2.33	0.42
2:C:483:MET:HG3	2:C:499:SER:O	2.20	0.42
2:C:546:SER:O	2:C:548:ILE:N	2.52	0.42
2:C:635:ALA:O	2:C:638:ALA:HB3	2.20	0.42
2:C:792:ILE:HD12	2:C:792:ILE:H	1.84	0.42
2:C:961:ASP:C	2:C:962:GLU:HG3	2.44	0.42
3:D:83:THR:OG1	3:D:84:ARG:N	2.53	0.42
3:D:173:ARG:HD3	3:D:201:GLY:O	2.20	0.42
3:D:567:SER:HB3	3:D:570:SER:H	1.85	0.42
3:D:1062:TYR:C	3:D:1080:ILE:HB	2.45	0.42
3:D:1066:ILE:N	3:D:1075:VAL:O	2.37	0.42
3:D:1234:THR:HG23	3:D:1235:ASP:N	2.35	0.42
5:F:231:TYR:O	5:F:235:ILE:HG23	2.20	0.42
5:F:244:GLU:HA	5:F:247:VAL:CG2	2.49	0.42
1:A:38:LEU:O	1:A:42:LEU:HG	2.19	0.41
1:A:146:TYR:CE1	1:A:165:ASP:HB3	2.55	0.41
1:A:223:ARG:HG3	1:B:212:GLY:C	2.45	0.41
1:B:85:VAL:CB	1:B:118:VAL:HA	2.49	0.41
1:B:102:PRO:CD	1:B:131:LYS:H	2.33	0.41
1:B:177:LYS:O	1:B:192:LEU:HD12	2.20	0.41
1:B:192:LEU:HD12	1:B:193:ILE:H	1.84	0.41
2:C:88:GLU:CD	2:C:386:GLN:HE22	2.29	0.41
2:C:395:ARG:HA	2:C:398:ARG:CG	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:558:ARG:HH21	2:C:570:TYR:HB2	1.84	0.41
2:C:683:CYS:HA	2:C:752:ILE:CD1	2.50	0.41
2:C:854:SER:O	2:C:859:ASP:HB2	2.19	0.41
3:D:169:GLU:O	3:D:208:ILE:HD13	2.19	0.41
3:D:497:LEU:HB3	3:D:509:ILE:HG21	2.03	0.41
3:D:847:LEU:HD12	3:D:847:LEU:N	2.35	0.41
3:D:901:LEU:HB3	3:D:958:THR:HA	2.02	0.41
3:D:930:VAL:CA	3:D:936:VAL:HA	2.38	0.41
3:D:1046:ILE:HG22	3:D:1110:GLN:HA	2.03	0.41
3:D:1053:VAL:HG13	3:D:1101:ASP:HA	2.02	0.41
3:D:1168:ILE:N	3:D:1202:ALA:O	2.51	0.41
3:D:1251:ASN:HA	3:D:1254:ILE:HD11	2.02	0.41
5:F:446:VAL:O	5:F:446:VAL:HG12	2.19	0.41
1:A:14:LEU:CD2	1:A:20:GLN:HG3	2.50	0.41
1:B:106:THR:HA	1:B:125:ILE:H	1.85	0.41
2:C:94:SER:OG	2:C:95:PRO:HA	2.20	0.41
2:C:395:ARG:O	2:C:398:ARG:HG3	2.20	0.41
2:C:470:LEU:HD21	3:D:861:ALA:HB1	2.02	0.41
2:C:556:GLU:HB2	2:C:557:PRO:HD2	2.02	0.41
2:C:740:ARG:HG2	2:C:744:GLU:CD	2.45	0.41
2:C:789:ILE:CG2	2:C:803:VAL:HG13	2.50	0.41
3:D:302:PHE:HA	3:D:305:SER:OG	2.20	0.41
3:D:587:TYR:O	3:D:590:THR:HG22	2.20	0.41
3:D:866:ARG:HH11	3:D:1011:THR:HA	1.82	0.41
3:D:1062:TYR:O	3:D:1080:ILE:HB	2.21	0.41
3:D:1062:TYR:CB	3:D:1080:ILE:HB	2.46	0.41
3:D:1086:LEU:HD23	3:D:1099:LEU:CB	2.50	0.41
5:F:264:THR:HA	5:F:267:SER:CB	2.45	0.41
5:F:318:LEU:O	5:F:321:ILE:HB	2.20	0.41
5:F:522:VAL:HG23	5:F:523:LEU:HD23	2.01	0.41
8:P:4:DA:H3'	8:P:4:DA:OP1	2.20	0.41
1:A:203:SER:OG	1:A:205:ARG:HG3	2.20	0.41
2:C:152:VAL:HG21	2:C:418:ILE:HD13	2.03	0.41
2:C:298:ASN:HD22	2:C:302:LYS:CE	2.33	0.41
2:C:447:SER:OG	2:C:613:ARG:HB2	2.20	0.41
2:C:532:THR:HG22	2:C:535:GLU:OE2	2.20	0.41
2:C:762:THR:HG23	2:C:765:GLY:N	2.35	0.41
3:D:33:THR:HG21	5:F:365:THR:HG22	2.02	0.41
3:D:148:LEU:HA	3:D:151:LEU:HB2	2.02	0.41
3:D:496:VAL:HG22	3:D:512:PHE:O	2.20	0.41
3:D:1055:LEU:HB3	3:D:1101:ASP:CG	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:LEU:HD23	1:A:195:ASP:N	2.35	0.41
1:B:6:ARG:NH1	1:B:234:ILE:HG22	2.35	0.41
1:B:15:THR:HG23	1:B:18:ARG:HB3	2.03	0.41
1:B:75:GLU:HG3	1:B:79:ASN:HD21	1.86	0.41
1:B:84:VAL:HG13	1:B:84:VAL:O	2.20	0.41
1:B:87:SER:O	1:B:142:ARG:NH1	2.53	0.41
2:C:271:ASP:HA	2:C:274:LEU:HB2	2.02	0.41
2:C:290:GLU:OE1	2:C:290:GLU:N	2.39	0.41
2:C:407:GLN:HG3	2:C:417:LEU:HD21	2.00	0.41
2:C:728:GLY:O	2:C:731:TYR:HB2	2.19	0.41
2:C:854:SER:HB3	2:C:857:ASP:CG	2.45	0.41
2:C:891:ASN:OD1	2:C:891:ASN:N	2.53	0.41
2:C:1111:ASN:ND2	4:E:66:ASP:OD1	2.50	0.41
3:D:69:ARG:NH1	6:J:25:ALA:HB2	2.36	0.41
3:D:129:ILE:HG13	3:D:130:TYR:N	2.35	0.41
3:D:364:GLU:CD	3:D:367:VAL:HB	2.45	0.41
3:D:800:ILE:HG12	3:D:804:ASP:OD2	2.20	0.41
3:D:1251:ASN:CA	3:D:1254:ILE:HG12	2.50	0.41
3:D:1275:THR:HG22	4:E:103:LEU:C	2.45	0.41
5:F:328:LEU:O	5:F:332:VAL:HG12	2.20	0.41
5:F:448:VAL:O	5:F:451:VAL:HG12	2.21	0.41
1:A:36:ASN:HD22	2:C:1016:GLY:N	2.19	0.41
1:A:151:GLN:NE2	2:C:795:GLU:OE2	2.40	0.41
1:B:60:LEU:HD23	1:B:159:ILE:HD13	2.03	0.41
1:B:134:LEU:CG	1:B:136:VAL:HG23	2.50	0.41
2:C:50:VAL:HA	2:C:51:PRO:HD3	1.90	0.41
2:C:273:ALA:O	2:C:277:ILE:HG12	2.20	0.41
2:C:278:TYR:CD1	2:C:282:ARG:HD2	2.55	0.41
2:C:541:VAL:O	2:C:561:VAL:HG23	2.20	0.41
2:C:1094:ASP:HB3	2:C:1119:GLU:CB	2.51	0.41
3:D:104:ILE:O	3:D:108:LYS:N	2.38	0.41
3:D:270:ILE:CD1	3:D:303:GLN:HA	2.50	0.41
3:D:350:ARG:HH11	3:D:377:SER:HB3	1.83	0.41
3:D:601:PRO:HA	3:D:608:GLU:CG	2.51	0.41
3:D:742:LYS:HZ1	3:D:820:MET:HB2	1.84	0.41
3:D:803:VAL:C	3:D:806:GLY:H	2.29	0.41
3:D:822:GLY:O	3:D:836:VAL:HB	2.19	0.41
3:D:1030:ARG:CZ	3:D:1034:LEU:HD21	2.50	0.41
3:D:1055:LEU:CB	3:D:1101:ASP:HA	2.50	0.41
3:D:1231:ARG:HA	3:D:1234:THR:CG2	2.50	0.41
5:F:242:ASN:H	5:F:245:GLU:CG	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:382:ILE:HD13	5:F:385:GLU:OE1	2.21	0.41
2:C:126:ASP:O	2:C:169:ASN:HA	2.21	0.41
2:C:455:LEU:HD21	2:C:500:LEU:HD21	2.01	0.41
2:C:1055:GLN:HA	2:C:1056:PRO:HD3	1.95	0.41
2:C:1089:LEU:HA	2:C:1089:LEU:HD23	1.80	0.41
3:D:35:ASN:O	3:D:39:LEU:HA	2.20	0.41
3:D:159:ARG:HD2	3:D:220:GLU:OE2	2.20	0.41
3:D:438:LEU:HG	3:D:561:SER:OG	2.21	0.41
3:D:605:ASP:OD1	3:D:605:ASP:N	2.51	0.41
3:D:624:ARG:HG2	3:D:625:GLY:N	2.35	0.41
3:D:923:ARG:HH21	3:D:1150:HIS:CE1	2.39	0.41
3:D:1027:GLY:O	3:D:1031:VAL:HG23	2.20	0.41
3:D:1052:ARG:HG2	3:D:1067:VAL:HG11	2.02	0.41
3:D:1063:LYS:CD	3:D:1078:ASP:HA	2.41	0.41
5:F:234:GLN:HA	5:F:237:LYS:CD	2.51	0.41
5:F:368:ILE:HG23	5:F:369:PRO:HD2	2.03	0.41
6:J:105:ILE:HG13	6:J:108:ARG:NH2	2.36	0.41
8:P:11:DA:H1'	8:P:12:DA:O5'	2.20	0.41
1:A:56:ILE:HG12	1:A:135:GLU:O	2.21	0.41
1:A:198:THR:HG21	1:A:203:SER:C	2.46	0.41
1:A:223:ARG:CD	1:B:213:LYS:HA	2.50	0.41
1:B:68:GLY:O	1:B:129:ASN:N	2.40	0.41
2:C:178:GLN:HA	2:C:456:SER:O	2.21	0.41
2:C:234:VAL:O	2:C:238:LEU:HD23	2.21	0.41
2:C:239:LYS:NZ	2:C:268:VAL:HG13	2.36	0.41
2:C:347:ARG:NE	2:C:355:MET:HB2	2.36	0.41
2:C:532:THR:HG22	2:C:535:GLU:HG2	2.03	0.41
2:C:589:VAL:O	2:C:592:ALA:HB3	2.21	0.41
2:C:612:GLN:CB	2:C:1031:MET:HE1	2.50	0.41
2:C:654:SER:N	2:C:657:TYR:O	2.53	0.41
2:C:805:LYS:HD3	2:C:835:THR:OG1	2.20	0.41
2:C:860:GLU:O	2:C:861:LEU:HD12	2.21	0.41
2:C:889:HIS:HB2	2:C:891:ASN:ND2	2.35	0.41
2:C:899:LEU:HD13	2:C:899:LEU:HA	1.85	0.41
3:D:107:PHE:HZ	3:D:126:GLU:HB2	1.85	0.41
3:D:118:LEU:HD23	3:D:118:LEU:HA	1.83	0.41
3:D:445:LYS:CA	3:D:516:LEU:HD22	2.47	0.41
3:D:480:ARG:HA	3:D:481:PRO:HD3	1.95	0.41
3:D:503:THR:CG2	3:D:508:GLY:HA3	2.51	0.41
3:D:665:GLU:O	3:D:665:GLU:HG3	2.21	0.41
5:F:245:GLU:O	5:F:249:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:502:ARG:HA	5:F:502:ARG:HD2	1.83	0.41
1:A:47:PRO:HG3	1:B:230:GLU:HG2	2.03	0.41
2:C:148:LYS:HB3	2:C:414:PRO:HD3	2.03	0.41
2:C:223:GLY:CA	2:C:231:ARG:HH22	2.34	0.41
2:C:290:GLU:O	2:C:294:THR:OG1	2.35	0.41
2:C:436:LEU:HD11	2:C:460:PRO:HD2	2.03	0.41
2:C:524:VAL:HG23	2:C:554:PHE:CZ	2.56	0.41
2:C:586:MET:HE1	3:D:850:PHE:HD1	1.84	0.41
2:C:689:ILE:CG2	2:C:704:ASP:H	2.34	0.41
2:C:1007:LYS:HB2	2:C:1022:PRO:HB2	2.02	0.41
2:C:1043:ALA:HA	3:D:426:GLY:CA	2.49	0.41
2:C:1071:MET:SD	3:D:502:PRO:CA	3.09	0.41
3:D:10:LEU:HB3	3:D:1245:LEU:HD21	2.03	0.41
3:D:61:TYR:CB	3:D:78:CYS:HB2	2.50	0.41
3:D:84:ARG:HG2	3:D:86:LYS:HG2	2.03	0.41
3:D:108:LYS:O	3:D:108:LYS:HG3	2.20	0.41
3:D:432:VAL:HG22	3:D:434:PRO:HD3	2.03	0.41
3:D:451:LEU:HD13	3:D:451:LEU:HA	1.89	0.41
3:D:822:GLY:O	3:D:836:VAL:N	2.54	0.41
3:D:1051:GLY:C	3:D:1104:HIS:HA	2.46	0.41
3:D:1140:GLU:HA	3:D:1143:ARG:HD2	2.01	0.41
3:D:1162:LEU:HD23	3:D:1162:LEU:HA	1.86	0.41
4:E:38:PRO:HB2	4:E:39:PRO:HD2	2.03	0.41
4:E:40:ILE:HA	4:E:43:LEU:HB2	2.02	0.41
5:F:342:LYS:HG3	5:F:344:SER:H	1.86	0.41
5:F:382:ILE:HA	5:F:385:GLU:CD	2.45	0.41
5:F:451:VAL:O	5:F:455:LEU:HD23	2.21	0.41
6:J:58:ASN:ND2	6:J:60:MET:HG2	2.36	0.41
7:O:15:DT:H2''	7:O:16:DT:C6	2.56	0.41
1:A:14:LEU:HD21	1:A:20:GLN:CG	2.50	0.41
1:A:34:LEU:O	1:A:34:LEU:HD13	2.20	0.41
1:A:83:LEU:HA	1:A:123:MET:SD	2.61	0.41
1:A:89:GLU:OE2	1:A:93:VAL:HG11	2.20	0.41
1:A:98:ARG:HG3	1:A:135:GLU:HG2	2.03	0.41
1:A:205:ARG:HH21	1:B:225:LEU:C	2.29	0.41
1:B:53:SER:HB2	1:B:162:ILE:O	2.21	0.41
1:B:69:VAL:O	1:B:129:ASN:ND2	2.51	0.41
1:B:82:SER:O	1:B:123:MET:HE1	2.21	0.41
1:B:86:SER:O	1:B:116:VAL:HA	2.21	0.41
2:C:98:ASP:OD1	2:C:98:ASP:N	2.52	0.41
2:C:229:LYS:HD3	2:C:229:LYS:HA	1.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:238:LEU:HD12	2:C:243:TRP:CG	2.56	0.41
2:C:403:ARG:O	2:C:407:GLN:HG2	2.21	0.41
2:C:476:HIS:HD2	2:C:478:SER:OG	2.04	0.41
2:C:749:SER:OG	2:C:877:ARG:HB2	2.20	0.41
2:C:764:LEU:CB	2:C:808:PRO:HG2	2.51	0.41
2:C:851:ARG:O	2:C:870:ARG:N	2.36	0.41
2:C:934:THR:HG22	2:C:1026:GLY:HA3	2.03	0.41
2:C:956:ALA:HA	2:C:959:LEU:CG	2.51	0.41
2:C:958:ARG:HD3	2:C:958:ARG:N	2.33	0.41
2:C:1048:PRO:O	2:C:1057:LEU:N	2.45	0.41
2:C:1076:MET:HE1	2:C:1084:THR:HB	2.03	0.41
3:D:74:ILE:HG23	3:D:80:VAL:N	2.36	0.41
3:D:334:ARG:CD	5:F:418:ARG:HB3	2.38	0.41
3:D:354:LEU:HD22	3:D:370:GLU:HG3	2.03	0.41
3:D:525:HIS:HE1	3:D:527:LEU:HD12	1.85	0.41
3:D:546:PRO:O	3:D:547:LEU:HD23	2.20	0.41
3:D:611:VAL:HA	3:D:634:LYS:O	2.21	0.41
3:D:656:TRP:C	3:D:658:PRO:HD2	2.46	0.41
3:D:749:TYR:CZ	3:D:781:ALA:HA	2.56	0.41
3:D:898:VAL:HA	3:D:960:VAL:C	2.46	0.41
3:D:1045:PRO:HB2	3:D:1111:LEU:CD2	2.47	0.41
3:D:1169:ASP:CB	3:D:1202:ALA:HB3	2.50	0.41
3:D:1191:ARG:NE	3:D:1191:ARG:HA	2.36	0.41
3:D:1217:THR:OG1	3:D:1218:ASP:N	2.54	0.41
5:F:242:ASN:ND2	5:F:244:GLU:OE2	2.54	0.41
5:F:337:TYR:O	5:F:340:GLY:N	2.39	0.41
5:F:347:ALA:HB1	5:F:351:ILE:HD11	2.02	0.41
5:F:498:VAL:CG2	5:F:503:ILE:HD11	2.51	0.41
7:O:9:DA:H1'	7:O:10:DA:C5'	2.48	0.41
1:A:221:LEU:HD12	1:A:225:LEU:HD21	2.03	0.41
1:B:1:MET:HB2	1:B:232:ILE:CA	2.45	0.41
1:B:18:ARG:HD2	1:B:197:GLU:OE1	2.21	0.41
1:B:29:GLY:HA2	1:B:190:ASP:OD2	2.21	0.41
1:B:94:THR:C	1:B:95:MET:HG3	2.45	0.41
2:C:70:TRP:HA	2:C:73:SER:HB2	2.03	0.41
2:C:199:LEU:HD22	2:C:216:VAL:O	2.21	0.41
2:C:236:VAL:O	2:C:240:ALA:HB2	2.21	0.41
2:C:516:TYR:CD2	2:C:531:LEU:HD12	2.56	0.41
2:C:621:SER:O	2:C:709:ASP:HB2	2.21	0.41
2:C:653:VAL:HA	2:C:658:ILE:HA	2.02	0.41
2:C:720:LEU:HD12	2:C:1026:GLY:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:764:LEU:HB3	2:C:808:PRO:HG2	2.03	0.41
2:C:776:ILE:HG13	2:C:780:VAL:CG2	2.51	0.41
2:C:851:ARG:HD2	2:C:851:ARG:HA	1.91	0.41
2:C:924:ARG:HH22	2:C:925:ARG:HH11	1.69	0.41
2:C:942:SER:O	2:C:968:PRO:HB3	2.21	0.41
2:C:961:ASP:C	2:C:963:LEU:H	2.29	0.41
2:C:1072:GLU:HG2	3:D:509:ILE:CG1	2.51	0.41
3:D:354:LEU:HD13	3:D:370:GLU:CB	2.48	0.41
3:D:820:MET:HG3	3:D:837:LYS:CA	2.51	0.41
3:D:876:ARG:HD2	3:D:1211:THR:HG22	2.02	0.41
3:D:1039:VAL:HG23	3:D:1039:VAL:O	2.20	0.41
3:D:1174:GLU:HG3	3:D:1174:GLU:O	2.21	0.41
3:D:1275:THR:HA	4:E:105:GLU:CD	2.46	0.41
5:F:515:ARG:CZ	5:F:515:ARG:HB2	2.50	0.41
8:P:4:DA:H2''	8:P:5:DC:O5'	2.21	0.41
8:P:22:DC:H2''	8:P:23:DA:OP2	2.21	0.41
1:A:53:SER:O	1:A:139:VAL:HB	2.21	0.40
1:A:55:ARG:CD	1:A:160:GLY:HA3	2.51	0.40
1:A:95:MET:O	1:A:138:LEU:N	2.54	0.40
1:A:96:TYR:CD1	1:A:137:GLU:HA	2.56	0.40
1:A:96:TYR:O	1:A:111:VAL:HG12	2.21	0.40
1:A:148:PRO:HA	1:A:165:ASP:OD1	2.21	0.40
1:B:106:THR:CA	1:B:125:ILE:HG22	2.50	0.40
2:C:40:SER:HB2	2:C:973:SER:OG	2.21	0.40
2:C:212:LEU:HB2	2:C:226:ILE:HG13	2.00	0.40
2:C:349:HIS:ND1	2:C:349:HIS:O	2.54	0.40
2:C:489:PRO:O	2:C:494:ILE:HG12	2.21	0.40
2:C:633:ARG:C	2:C:636:ILE:HG12	2.46	0.40
2:C:798:ASP:HA	2:C:839:VAL:HG13	2.03	0.40
2:C:1042:HIS:O	3:D:427:ARG:N	2.52	0.40
3:D:18:GLU:HA	3:D:21:ARG:CG	2.50	0.40
3:D:129:ILE:HG13	3:D:130:TYR:CD2	2.56	0.40
3:D:797:ASN:HD22	3:D:798:PRO:CD	2.34	0.40
3:D:1065:THR:HG21	3:D:1076:VAL:HG22	2.03	0.40
3:D:1172:SER:N	3:D:1199:GLU:HG3	2.36	0.40
3:D:1211:THR:O	3:D:1214:SER:OG	2.34	0.40
5:F:513:LYS:HD2	5:F:516:HIS:HE1	1.86	0.40
6:J:32:TYR:HD1	6:J:64:LEU:HA	1.83	0.40
6:J:42:VAL:HB	6:J:44:PHE:CE2	2.57	0.40
6:J:55:LEU:HD11	6:J:59:GLY:O	2.20	0.40
8:P:14:DA:H2''	8:P:15:DC:OP2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:15:DC:H2''	8:P:16:DT:OP2	2.20	0.40
1:A:107:ALA:N	1:A:123:MET:O	2.55	0.40
1:A:118:VAL:HG12	1:A:119:HIS:N	2.36	0.40
2:C:179:LEU:HD23	2:C:179:LEU:HA	1.94	0.40
2:C:208:ARG:HH12	2:C:304:LYS:C	2.30	0.40
2:C:627:GLY:H	2:C:973:SER:HA	1.86	0.40
2:C:754:GLU:OE2	2:C:870:ARG:HD2	2.21	0.40
2:C:906:PHE:CB	2:C:912:PRO:HA	2.51	0.40
3:D:207:GLN:HE21	3:D:211:ARG:NE	2.20	0.40
3:D:229:LEU:HA	3:D:229:LEU:HD12	1.87	0.40
3:D:524:LEU:HG	3:D:525:HIS:O	2.21	0.40
3:D:1036:GLU:HB2	3:D:1038:ARG:HG2	2.04	0.40
5:F:234:GLN:HA	5:F:237:LYS:HE3	2.00	0.40
5:F:358:ALA:HA	5:F:361:ASP:HB2	2.02	0.40
1:A:7:PRO:HA	1:A:25:PRO:CD	2.33	0.40
1:A:95:MET:HB3	1:A:113:PRO:CD	2.50	0.40
1:B:3:ILE:CG1	1:B:234:ILE:HA	2.51	0.40
1:B:104:GLU:HG2	1:B:127:THR:CB	2.52	0.40
2:C:116:LYS:NZ	2:C:130:ALA:HB3	2.36	0.40
2:C:180:VAL:O	2:C:377:ARG:HG2	2.22	0.40
2:C:353:THR:O	2:C:364:PRO:HA	2.21	0.40
2:C:357:VAL:HG22	2:C:358:PRO:HD2	2.02	0.40
2:C:455:LEU:N	2:C:498:GLY:O	2.46	0.40
2:C:802:LEU:HB2	2:C:837:LEU:CG	2.51	0.40
2:C:1095:ASP:OD2	2:C:1098:GLY:HA3	2.21	0.40
3:D:24:SER:OG	3:D:93:GLY:HA2	2.21	0.40
3:D:27:GLU:HG3	3:D:94:HIS:O	2.21	0.40
3:D:329:GLN:HA	3:D:335:PHE:CB	2.51	0.40
3:D:1278:ALA:O	3:D:1281:ALA:HB3	2.21	0.40
5:F:339:LYS:HB3	5:F:341:TYR:HE2	1.84	0.40
5:F:440:GLU:CA	6:J:7:ARG:HA	2.51	0.40
1:A:45:SER:HA	1:A:144:ARG:HH11	1.85	0.40
2:C:161:THR:HG23	2:C:165:THR:C	2.45	0.40
2:C:347:ARG:HG2	2:C:350:GLU:OE1	2.21	0.40
2:C:413:THR:CG2	2:C:416:THR:H	2.34	0.40
2:C:731:TYR:OH	3:D:578:ARG:HD3	2.21	0.40
2:C:739:ASN:N	2:C:899:LEU:O	2.53	0.40
3:D:95:ILE:HB	3:D:317:VAL:HB	2.02	0.40
3:D:816:THR:HG22	3:D:821:LYS:CD	2.52	0.40
5:F:415:GLN:HG2	5:F:418:ARG:CD	2.52	0.40
5:F:447:ALA:O	5:F:449:ASP:N	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:501:GLU:CD	8:P:22:DC:H41	2.29	0.40
7:O:12:DG:H2''	7:O:13:DT:O5'	2.21	0.40
7:O:27:DA:H2'	7:O:27:DA:OP2	2.21	0.40
8:P:2:DG:H2''	8:P:3:DC:O5'	2.20	0.40
8:P:20:DG:H1'	8:P:21:DT:O5'	2.22	0.40
1:B:48:GLY:HA3	1:B:168:TYR:O	2.22	0.40
2:C:447:SER:HB2	2:C:613:ARG:HB2	2.04	0.40
2:C:456:SER:HB2	2:C:497:ILE:HG12	2.04	0.40
2:C:514:THR:HG23	2:C:515:PRO:HD2	2.02	0.40
2:C:649:VAL:O	2:C:661:MET:HB3	2.21	0.40
2:C:1067:ARG:HG3	3:D:421:ARG:CA	2.52	0.40
2:C:1086:GLN:HG3	3:D:1255:GLY:O	2.21	0.40
3:D:41:PRO:HB3	3:D:47:PHE:HB2	2.04	0.40
3:D:194:ARG:O	3:D:198:ARG:HG3	2.22	0.40
3:D:314:LEU:HD11	3:D:316:ALA:O	2.21	0.40
3:D:497:LEU:HB2	3:D:544:HIS:HB2	2.03	0.40
3:D:577:PRO:HB3	3:D:581:MET:SD	2.61	0.40
3:D:736:VAL:O	3:D:841:ARG:NE	2.54	0.40
5:F:255:ALA:CB	6:J:101:ARG:HG3	2.52	0.40
6:J:10:ARG:HD2	6:J:10:ARG:N	2.36	0.40
8:P:9:DT:H2''	8:P:10:DT:C6	2.57	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 PDB entries followed by that with respect to all EM entries.

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	223/347 (64%)	192 (86%)	31 (14%)	0	100	100
1	B	235/347 (68%)	199 (85%)	36 (15%)	0	100	100
2	C	1109/1179 (94%)	959 (86%)	146 (13%)	4 (0%)	30	66
3	D	1260/1326 (95%)	1109 (88%)	150 (12%)	1 (0%)	48	83

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	E	81/110 (74%)	72 (89%)	9 (11%)	0	100	100
5	F	317/531 (60%)	291 (92%)	24 (8%)	2 (1%)	21	58
6	J	106/111 (96%)	91 (86%)	14 (13%)	1 (1%)	14	49
All	All	3331/3951 (84%)	2913 (88%)	410 (12%)	8 (0%)	44	77

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	C	231	ARG
2	C	1074	TRP
3	D	422	VAL
5	F	224	SER
5	F	447	ALA
2	C	230	ARG
2	C	1068	PHE
6	J	108	ARG

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 PDB entries followed by that with respect to all EM entries.

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	194/297 (65%)	194 (100%)	0	100	100
1	B	194/297 (65%)	194 (100%)	0	100	100
2	C	933/997 (94%)	930 (100%)	3 (0%)	86	84
3	D	1042/1103 (94%)	1039 (100%)	3 (0%)	86	84
4	E	69/89 (78%)	69 (100%)	0	100	100
5	F	264/429 (62%)	264 (100%)	0	100	100
6	J	93/97 (96%)	93 (100%)	0	100	100
All	All	2789/3309 (84%)	2783 (100%)	6 (0%)	85	85

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	C	229	LYS
2	C	231	ARG
2	C	282	ARG
3	D	417	LEU
3	D	422	VAL
3	D	657	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (54) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	5	GLN
1	A	20	GLN
1	A	36	ASN
1	A	79	ASN
1	A	124	HIS
1	B	20	GLN
1	B	61	HIS
1	B	79	ASN
1	B	124	HIS
1	B	226	ASN
2	C	81	ASN
2	C	141	ASN
2	C	150	GLN
2	C	293	GLN
2	C	298	ASN
2	C	386	GLN
2	C	387	ASN
2	C	419	ASN
2	C	435	GLN
2	C	442	GLN
2	C	476	HIS
2	C	479	HIS
2	C	729	HIS
2	C	841	HIS
2	C	875	GLN
2	C	920	HIS
2	C	981	GLN
2	C	1034	HIS
2	C	1054	GLN
2	C	1055	GLN
3	D	5	ASN
3	D	22	GLN
3	D	207	GLN

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Mol	Chain	Res	Type
3	D	239	ASN
3	D	307	ASN
3	D	352	ASN
3	D	465	HIS
3	D	494	HIS
3	D	523	GLN
3	D	748	HIS
3	D	771	ASN
3	D	792	HIS
3	D	797	ASN
3	D	1145	GLN
3	D	1227	GLN
3	D	1269	ASN
4	E	65	ASN
5	F	294	HIS
5	F	322	GLN
5	F	325	ASN
5	F	353	GLN
5	F	377	ASN
5	F	516	HIS
6	J	58	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 3 are monoatomic - leaving 1 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
11	C0L	D	1404	-	37,38,38	2.65	13 (35%)	37,49,49	2.80	12 (32%)

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
11	C0L	D	1404	-	-	20/38/57/57	0/1/1/1

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	D	1404	C0L	O24-C23	8.84	1.39	1.21
11	D	1404	C0L	O19-C18	5.67	1.39	1.24
11	D	1404	C0L	C17-C16	4.85	1.50	1.39
11	D	1404	C0L	O36-C16	-4.55	1.18	1.33
11	D	1404	C0L	C17-C18	-4.20	1.35	1.45
11	D	1404	C0L	C13-C12	3.91	1.56	1.42
11	D	1404	C0L	C20-C18	-3.79	1.34	1.44
11	D	1404	C0L	C32-N31	3.58	1.43	1.37
11	D	1404	C0L	O34-C35	-3.21	1.38	1.45
11	D	1404	C0L	C17-C23	-2.65	1.38	1.45
11	D	1404	C0L	O34-C32	2.62	1.38	1.34
11	D	1404	C0L	O38-C08	-2.22	1.38	1.42
11	D	1404	C0L	O22-C23	-2.12	1.35	1.39

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	D	1404	C0L	O34-C32-N31	9.70	120.31	109.15
11	D	1404	C0L	C35-O34-C32	-6.28	108.37	115.63
11	D	1404	C0L	O22-C21-C25	5.51	116.19	111.35
11	D	1404	C0L	O36-C16-C17	4.93	128.88	120.03
11	D	1404	C0L	C23-C17-C18	4.44	121.99	119.41
11	D	1404	C0L	O33-C32-N31	-4.34	119.36	125.44
11	D	1404	C0L	C12-C13-C14	-2.97	122.14	126.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	D	1404	C0L	O34-C32-O33	-2.95	120.33	124.62
11	D	1404	C0L	C28-C27-C25	-2.79	109.26	114.40
11	D	1404	C0L	O19-C18-C17	-2.63	119.31	123.08
11	D	1404	C0L	O22-C23-O24	2.12	119.07	115.24
11	D	1404	C0L	C15-C14-C16	2.08	121.01	115.36

There are no chirality outliers.

All (20) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
11	D	1404	C0L	C13-C14-C16-O36
11	D	1404	C0L	C15-C14-C16-O36
11	D	1404	C0L	C14-C16-C17-C18
11	D	1404	C0L	C14-C16-C17-C23
11	D	1404	C0L	O36-C16-C17-C18
11	D	1404	C0L	O36-C16-C17-C23
11	D	1404	C0L	C20-C21-C25-C26
11	D	1404	C0L	O22-C21-C25-C26
11	D	1404	C0L	O22-C21-C25-C27
11	D	1404	C0L	N31-C32-O34-C35
11	D	1404	C0L	O33-C32-O34-C35
11	D	1404	C0L	O34-C32-N31-C30
11	D	1404	C0L	C05-C06-C08-C09
11	D	1404	C0L	C07-C06-C08-C09
11	D	1404	C0L	O33-C32-N31-C30
11	D	1404	C0L	C07-C06-C08-O38
11	D	1404	C0L	C06-C08-C09-C10
11	D	1404	C0L	C02-C03-C04-C05
11	D	1404	C0L	C27-C28-C29-C30
11	D	1404	C0L	C05-C06-C08-O38

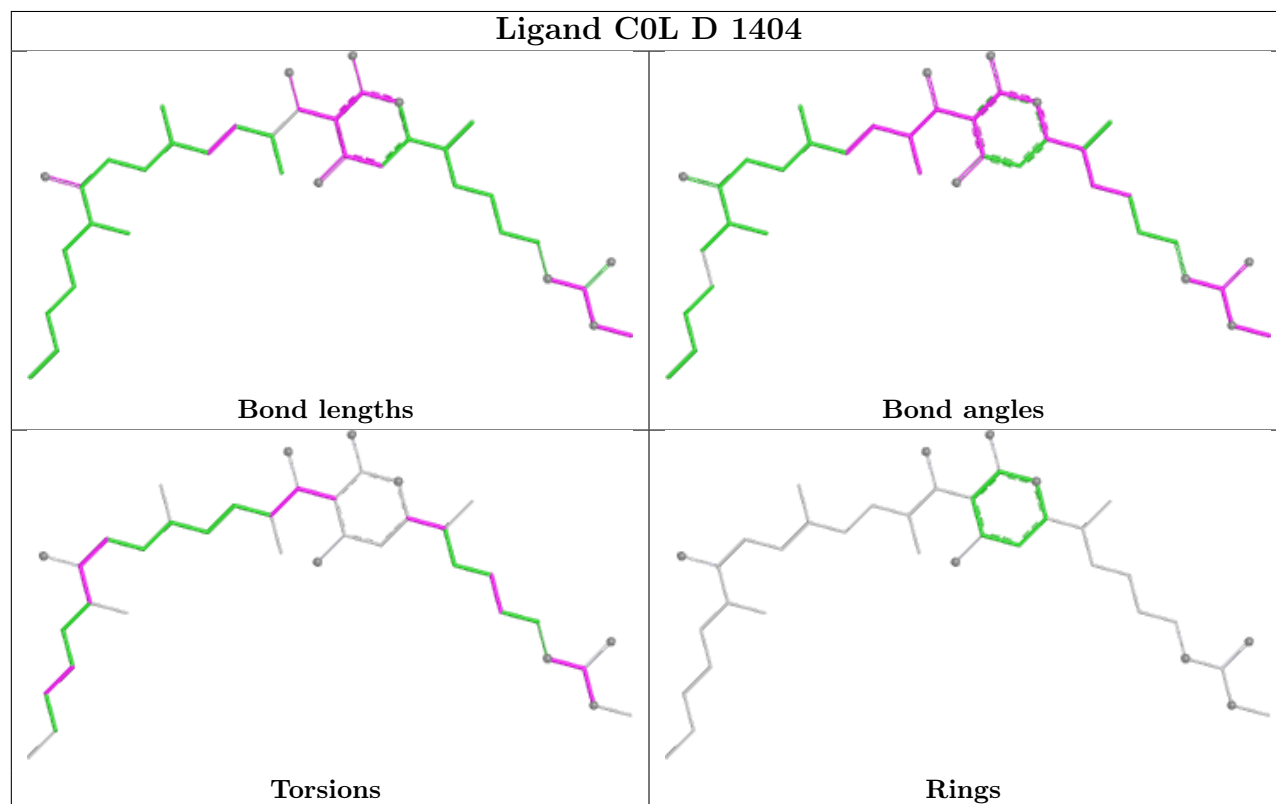
There are no ring outliers.

1 monomer is involved in 22 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	D	1404	C0L	22	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier.

Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

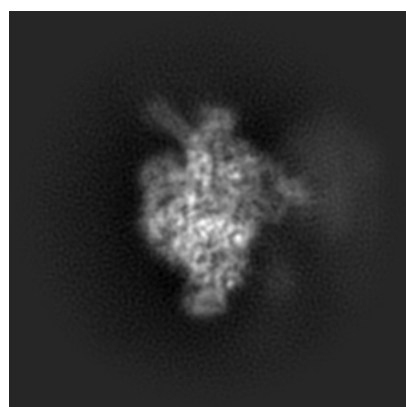
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9047. These allow visual inspection of the internal detail of the map and identification of artifacts.

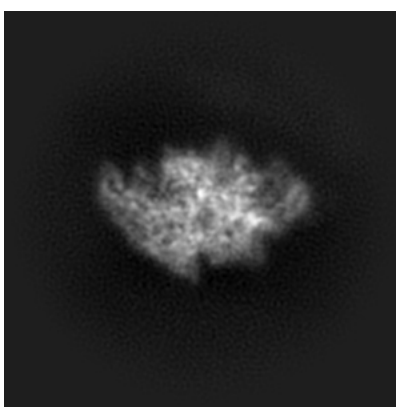
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

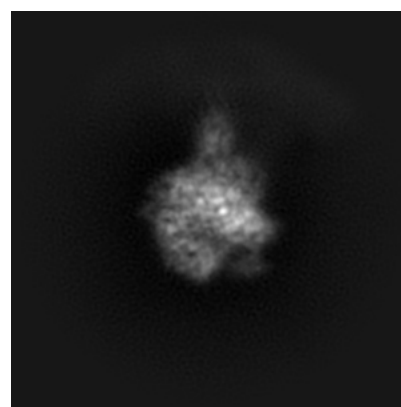
6.1.1 Primary map



X



Y

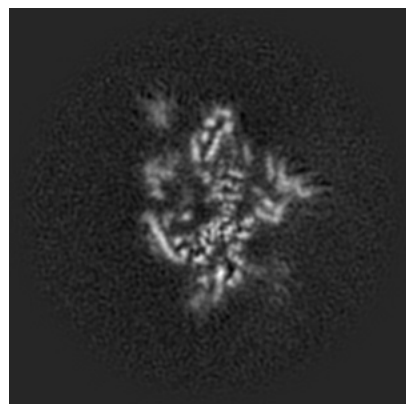


Z

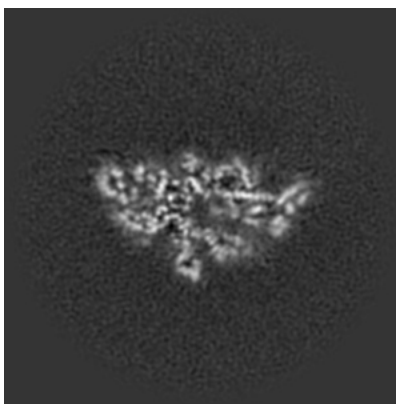
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

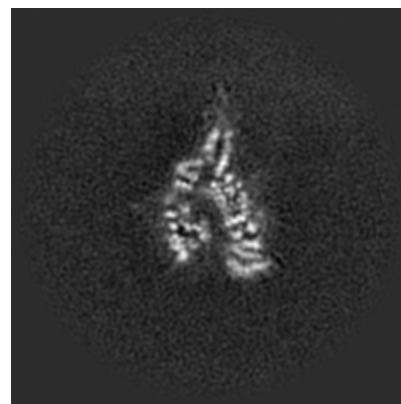
6.2.1 Primary map



X Index: 128



Y Index: 128

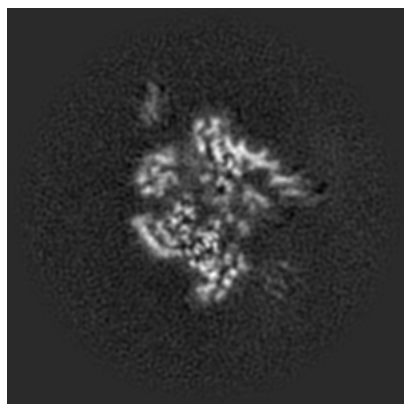


Z Index: 128

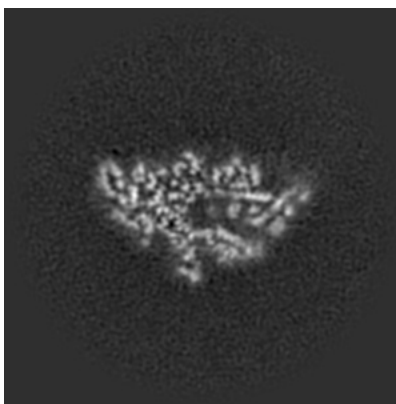
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

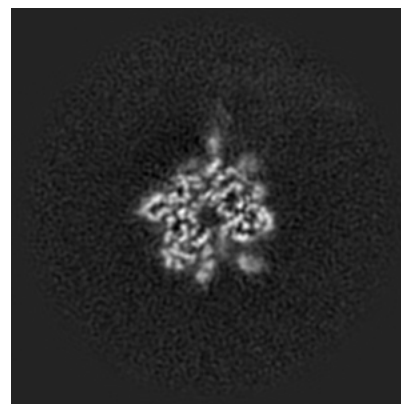
6.3.1 Primary map



X Index: 122



Y Index: 126

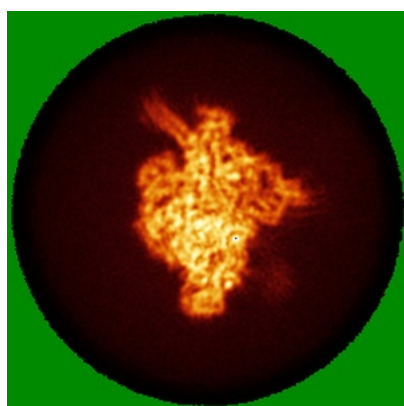


Z Index: 119

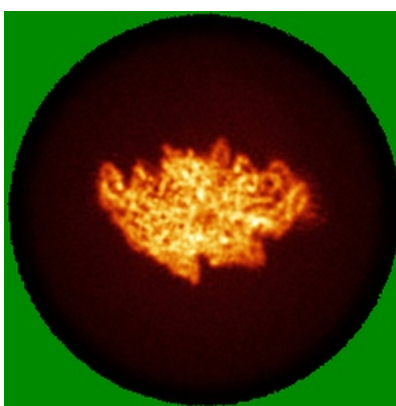
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

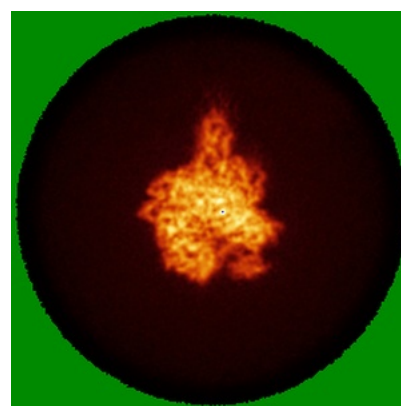
6.4.1 Primary map



X



Y

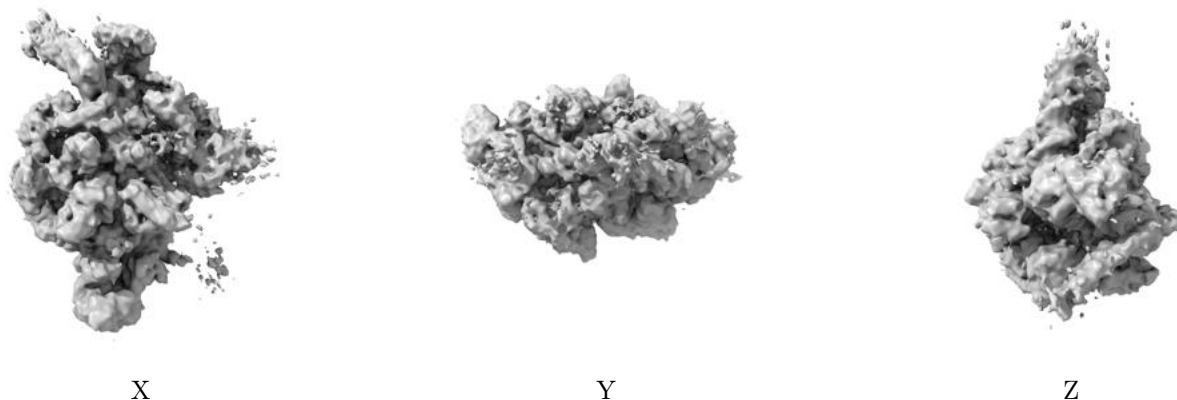


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.3. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

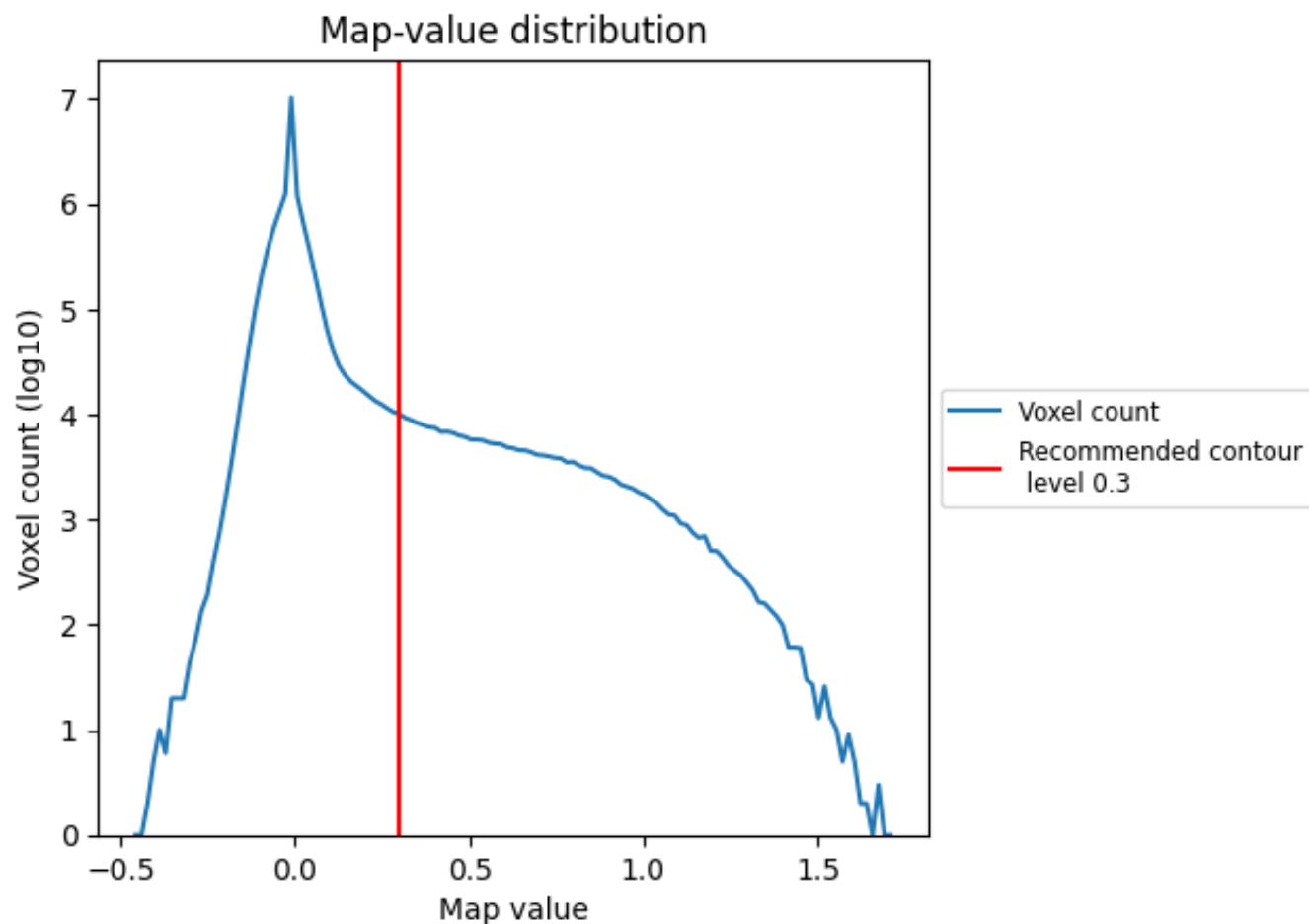
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

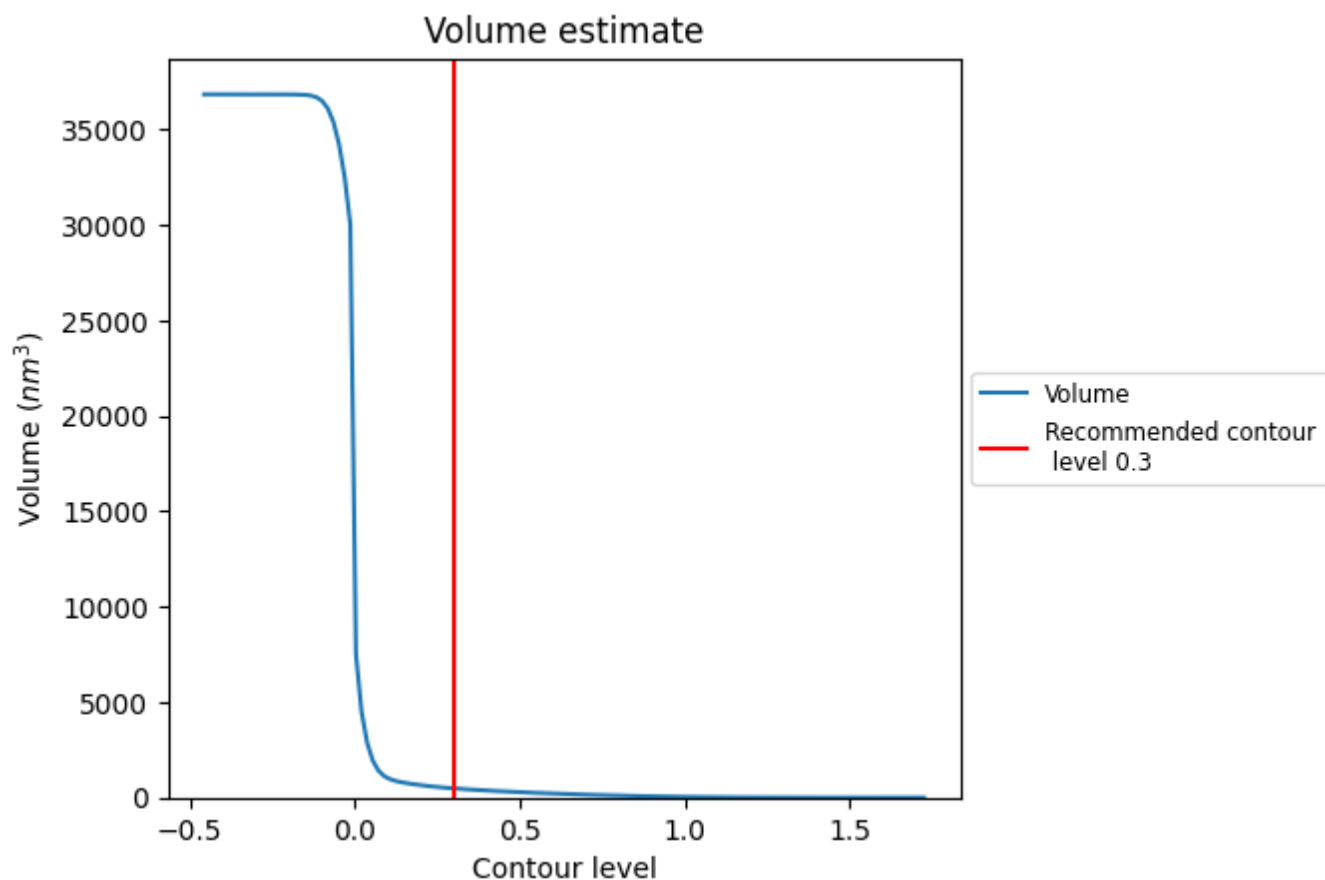
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

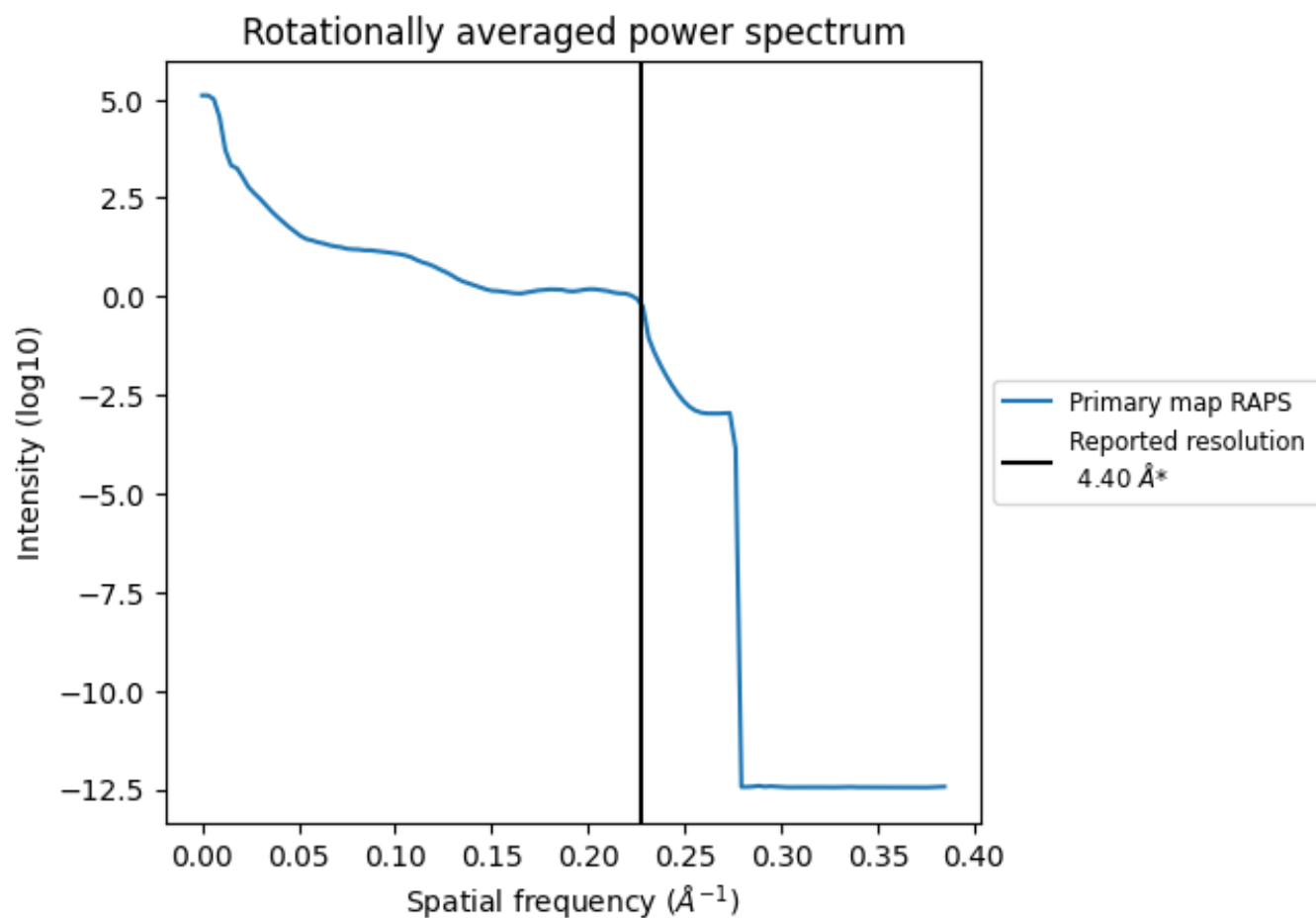
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 480 nm³; this corresponds to an approximate mass of 434 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.227 Å⁻¹

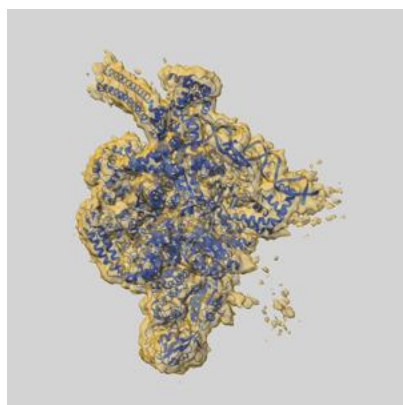
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

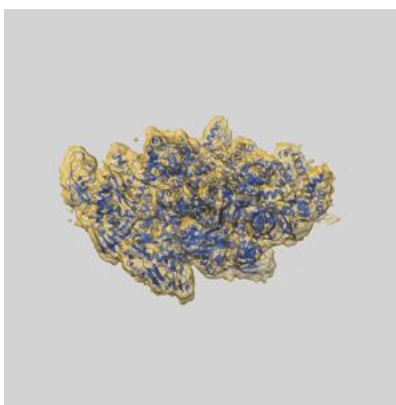
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-9047 and PDB model 6M7J. Per-residue inclusion information can be found in section [3](#) on page [8](#).

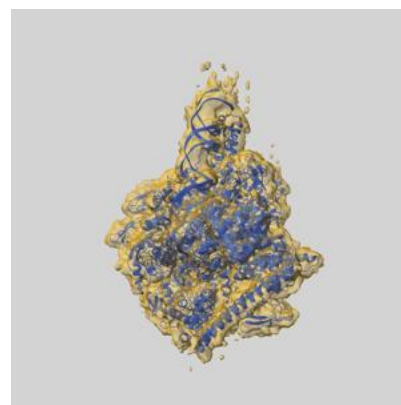
9.1 Map-model overlay [i](#)



X



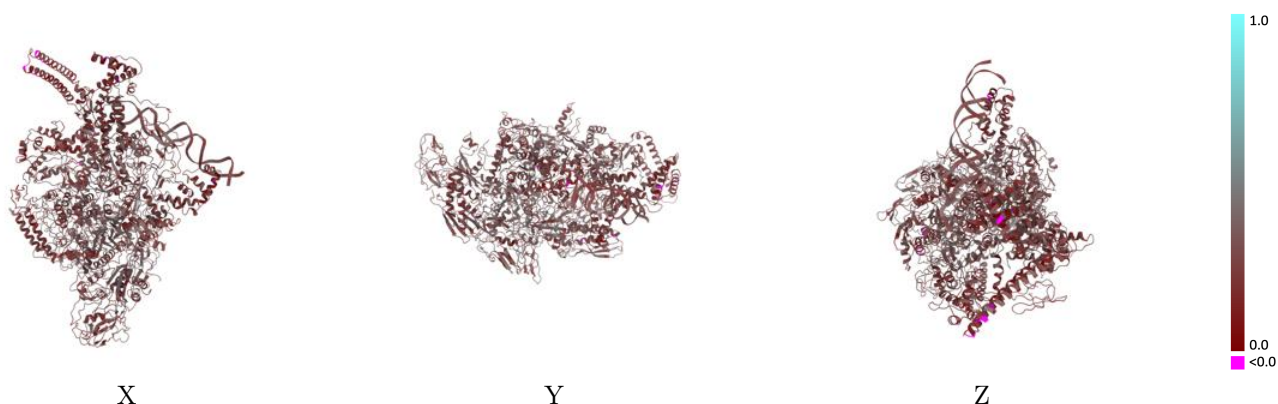
Y



Z

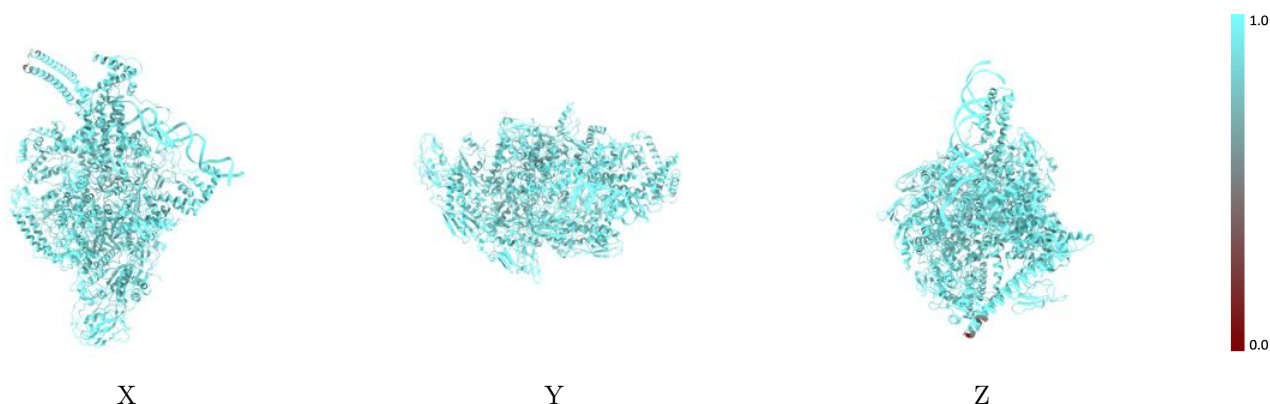
The images above show the 3D surface view of the map at the recommended contour level 0.3 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



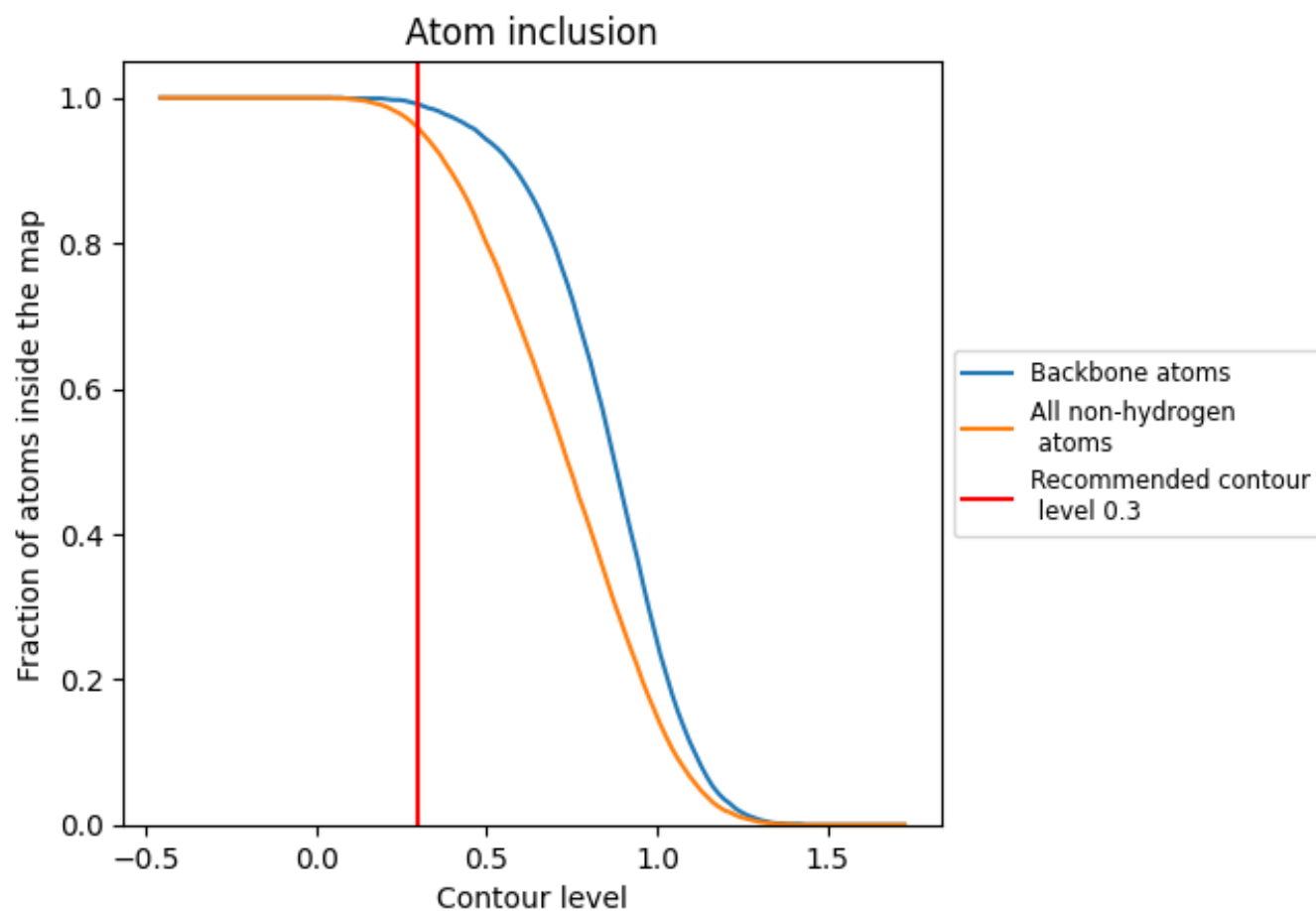
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.3).

9.4 Atom inclusion [i](#)



At the recommended contour level, 99% of all backbone atoms, 96% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9580	0.2970
A	0.9670	0.3200
B	0.9710	0.3000
C	0.9580	0.3070
D	0.9540	0.2960
E	0.9640	0.3080
F	0.9460	0.2500
J	0.9540	0.2830
O	0.9950	0.3060
P	0.9980	0.2990

1.0

0.0

<0.0