Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 03:29 PM UTC

PDB ID	:	7AJU / pdb_00007aju
EMDB ID	:	EMD-11808
Title	:	Cryo-EM structure of the 90S-exosome super-complex (state Post-A1-exosome)
Authors	:	Cheng, J.; Lau, B.; Flemming, D.; Venuta, G.L.; Berninghausen, O.; Beckmann, R.; Hurt, E.
Deposited on	:	2020-09-29
Resolution	:	3.80 Å(reported)
Based on initial model	:	6ZQD

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:

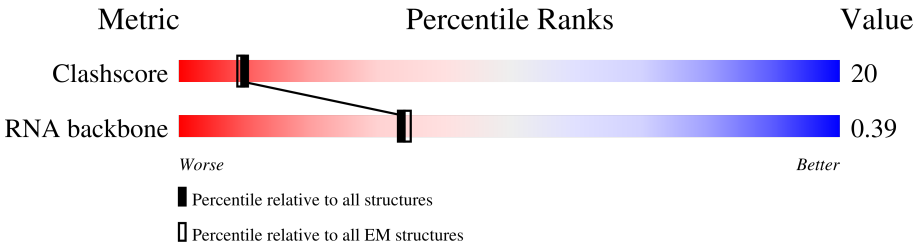
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data 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

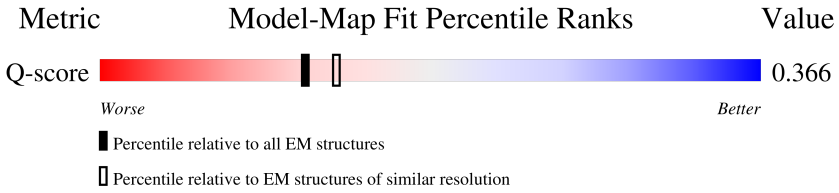
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.80 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	-
RNA backbone	8273	3508	-
Q-score	-	25397	10198 (3.30 - 4.30)

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 <=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	CA	327	42% 32% 26%
1	CB	327	34% 35% 30%
2	DA	255	59% 35% 6%
3	UA	923	53% 32% 14%

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Mol	Chain	Length	Quality of chain
4	UB	810	47% 22% 32%
5	UC	610	9% 5% 86%
6	UD	776	43% 43% 15%
7	UE	643	40% 34% 26%
8	UF	440	41% 25% 33%
9	UG	554	53% 31% 15%
10	UH	713	52% 15% 34%
11	UI	575	8% 8% 85%
12	UJ	1769	36% 27% 37%
13	UK	250	47% 41% 12%
14	UL	943	42% 40% 17%
15	UM	817	43% 50% 7%
16	UN	899	15% 8% 77%
17	UO	513	39% 57%
18	UP	214	14% 14% 72%
19	UQ	896	48% 43% 8%
20	UR	594	46% 35% 19%
21	US	552	57% 31% 12%
22	UT	2493	50% 42% 7%
23	UU	939	55% 38% 6%
24	UV	1237	45% 42% 12%
25	UX	189	50% 37% 12%
26	CD	504	51% 24% 25%
27	CE	511	46% 39% 15%
28	CF	126	59% 36%

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Mol	Chain	Length	Quality of chain
28	CG	126	57% 38%
29	CH	573	56% 26% 18%
30	CI	183	52% 43%
31	CJ	290	49% 39% 12%
32	CK	593	24% 13% 63%
33	CL	1183	42% 26% 32%
34	CM	367	60% 38%
35	CN	297	42% 35% 23%
36	JD	1267	31% 33% 36%
37	JF	252	46% 39% 14%
37	JG	252	52% 40% 9%
38	JH	483	53% 46%
39	JI	1729	15% 85%
40	JL	318	57% 32% 11%
41	JM	217	33% 29% 38%
42	JP	489	57% 36% 6%
43	Db	82	77% 22%
44	JJ	274	46% 26% 27%
45	DE	261	67% 27% 6%
46	DF	225	64% 31% 5%
47	DG	236	60% 32% 8%
48	DH	190	53% 37% 11%
49	DI	200	55% 34% 12%
50	DJ	197	64% 30% 6%
51	DL	156	66% 24% 10%

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Mol	Chain	Length	Quality of chain
52	DN	151	77% 23%
53	DO	137	56% 36% 7%
54	DQ	143	57% 31% 13%
55	DS	146	5% 40% 32% 28%
56	DT	144	6% 64% 35%
57	DW	130	72% 28%
58	DX	145	62% 37%
59	DY	135	76% 23%
60	Dc	67	60% 34% 6%
61	D2	81	36% 47% 17%
62	D3	1802	32% 34% 12% 22%
63	D4	333	19% 38% 10% 33%
64	EA	22	41% 32% 64% 5%
65	EB	305	63% 90% 7%
66	EC	246	46% 94%
67	ED	394	16% 75% 6% 20%
68	EE	223	15% 93% 7%
69	EF	265	15% 95% 5%
70	EG	250	15% 82% 14%
71	EH	240	81% 92% 6%
72	EI	359	36% 77% 18%
73	EJ	292	63% 68% 8% 24%
74	EK	1001	63% 91% 6%
75	EN	1073	67% 79% 10% 10%

2 Entry composition (i)

There are 78 unique types of molecules in this entry. The entry contains 242031 atoms, of which 0 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 rRNA 2'-O-methyltransferase fibrillarin.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	CA	242	Total	C	N	O	S	0	0
			1881	1193	338	340	10		
1	CB	228	Total	C	N	O	S	0	0
			1782	1131	320	321	10		

- Molecule 2 is a protein called 40S ribosomal protein S1-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	DA	240	Total	C	N	O	S	0	0
			1912	1209	354	345	4		

- Molecule 3 is a protein called Periodic tryptophan protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	UA	792	Total	C	N	O	S	0	0
			6322	4040	1083	1181	18		

- Molecule 4 is a protein called Nucleolar complex protein 14.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	UB	553	Total	C	N	O	S	0	0
			4105	2602	736	756	11		

- Molecule 5 is a protein called Something about silencing protein 10.

Mol	Chain	Residues	Atoms				AltConf	Trace
5	UC	86	Total	C	N	O	0	0
			694	430	139	125		

- Molecule 6 is a protein called U3 small nucleolar RNA-associated protein 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	UD	663	Total	C	N	O	S	0	0
			5269	3339	915	994	21		

- Molecule 7 is a protein called U3 small nucleolar RNA-associated protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	UE	475	Total	C	N	O	S	0	0
			3772	2400	649	710	13		

- Molecule 8 is a protein called U3 small nucleolar RNA-associated protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	UF	293	Total	C	N	O	S	0	0
			2487	1605	435	434	13		

- Molecule 9 is a protein called U3 small nucleolar RNA-associated protein 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	UG	470	Total	C	N	O	S	0	0
			3718	2345	664	698	11		

- Molecule 10 is a protein called U3 small nucleolar RNA-associated protein 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	UH	474	Total	C	N	O	S	0	0
			2771	1706	513	549	3		

- Molecule 11 is a protein called U3 small nucleolar RNA-associated protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	UI	88	Total	C	N	O	S	0	0
			723	462	131	128	2		

- Molecule 12 is a protein called U3 small nucleolar RNA-associated protein 10.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	UJ	1116	Total	C	N	O	S	0	0
			8961	5802	1468	1666	25		

- Molecule 13 is a protein called U3 small nucleolar RNA-associated protein 11.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	UK	219	Total	C	N	O	S	0	0
			1845	1150	356	332	7		

- Molecule 14 is a protein called U3 small nucleolar RNA-associated protein 12.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	UL	779	Total	C	N	O	S	0	0
			6199	3974	1034	1164	27		

- Molecule 15 is a protein called U3 small nucleolar RNA-associated protein 13.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	UM	762	Total	C	N	O	S	0	0
			5970	3787	1007	1148	28		

- Molecule 16 is a protein called U3 small nucleolar RNA-associated protein 14.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	UN	203	Total	C	N	O	S	0	0
			1667	1038	313	314	2		

- Molecule 17 is a protein called U3 small nucleolar RNA-associated protein 15.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	UO	493	Total	C	N	O	S	0	0
			3911	2462	702	735	12		

- Molecule 18 is a protein called Bud site selection protein 21.

Mol	Chain	Residues	Atoms				AltConf	Trace
18	UP	60	Total	C	N	O	0	0
			495	310	101	84		

- Molecule 19 is a protein called NET1-associated nuclear protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	UQ	820	Total	C	N	O	S	0	0
			6557	4171	1107	1260	19		

- Molecule 20 is a protein called U3 small nucleolar RNA-associated protein 18.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	UR	481	Total	C	N	O	S	0	0
			3791	2399	668	714	10		

- Molecule 21 is a protein called Nucleolar complex protein 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	US	487	Total	C	N	O	S	0	0
			3587	2305	610	660	12		

- Molecule 22 is a protein called U3 small nucleolar RNA-associated protein 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	UT	2313	Total	C	N	O	S	0	0
			18789	12100	3144	3479	66		

- Molecule 23 is a protein called U3 small nucleolar RNA-associated protein 21.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	UU	878	Total	C	N	O	S	0	0
			6922	4386	1198	1316	22		

- Molecule 24 is a protein called U3 small nucleolar RNA-associated protein 22.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	UV	1083	Total	C	N	O	S	0	0
			8753	5692	1442	1595	24		

- Molecule 25 is a protein called rRNA-processing protein FCF1.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	UX	167	Total	C	N	O	S	0	0
			1330	854	241	225	10		

- Molecule 26 is a protein called Nucleolar protein 56.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	CD	380	Total	C	N	O	S	0	0
			2994	1898	513	574	9		

- Molecule 27 is a protein called Nucleolar protein 58.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	CE	436	Total	C	N	O	S	0	0
			3326	2093	571	654	8		

- Molecule 28 is a protein called 13 kDa ribonucleoprotein-associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	CF	121	Total	C	N	O	S	0	0
			916	583	158	171	4		
28	CG	121	Total	C	N	O	S	0	0
			916	583	158	171	4		

- Molecule 29 is a protein called Ribosomal RNA-processing protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	CH	467	Total	C	N	O	S	0	0
			3736	2371	655	700	10		

- Molecule 30 is a protein called U3 small nucleolar ribonucleoprotein protein IMP3.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	CI	175	Total	C	N	O	S	0	0
			1468	929	276	256	7		

- Molecule 31 is a protein called U3 small nucleolar ribonucleoprotein protein IMP4.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	CJ	256	Total	C	N	O	S	0	0
			2081	1306	394	374	7		

- Molecule 32 is a protein called U3 small nucleolar RNA-associated protein MPP10.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	CK	222	Total	C	N	O	S	0	0
			1789	1111	311	363	4		

- Molecule 33 is a protein called Ribosome biogenesis protein BMS1.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	CL	808	Total	C	N	O	S	0	0
			6551	4187	1171	1165	28		

- Molecule 34 is a protein called RNA 3'-terminal phosphate cyclase-like protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	CM	360	Total	C	N	O	S	0	0
			2781	1781	473	516	11		

- Molecule 35 is a protein called Ribosomal RNA-processing protein 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	CN	229	Total	C	N	O	S	0	0
			1868	1197	317	347	7		

- Molecule 36 is a protein called Probable ATP-dependent RNA helicase DHR1.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	JD	811	Total	C	N	O	S	0	0
			6509	4163	1151	1160	35		

- Molecule 37 is a protein called Ribosomal RNA small subunit methyltransferase NEP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	JF	216	Total	C	N	O	S	0	0
			1701	1079	296	315	11		
37	JG	230	Total	C	N	O	S	0	0
			1799	1142	313	333	11		

- Molecule 38 is a protein called Essential nuclear protein 1.

Mol	Chain	Residues	Atoms				AltConf	Trace
38	JH	261	Total	C	N	O	0	0
			1295	773	261	261		

- Molecule 39 is a protein called rRNA biogenesis protein RRP5.

Mol	Chain	Residues	Atoms				AltConf	Trace
39	JI	265	Total	C	N	O	0	0
			1314	784	265	265		

- Molecule 40 is a protein called Dimethyladenosine transferase.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	JL	283	Total	C	N	O	S	0	0
			2262	1439	401	408	14		

- Molecule 41 is a protein called rRNA-processing protein FCF2.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	JM	134	Total	C	N	O	S	0	0
			1131	715	206	207	3		

- Molecule 42 is a protein called Protein SOF1.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	JP	461	Total	C	N	O	S	0	0
			3765	2354	686	709	16		

- Molecule 43 is a protein called 40S ribosomal protein S27-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	Db	81	Total	C	N	O	S	0	0
			610	382	110	113	5		

- Molecule 44 is a protein called Pre-rRNA-processing protein PNO1.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	JJ	199	Total	C	N	O	S	0	0
			1573	1001	285	283	4		

- Molecule 45 is a protein called 40S ribosomal protein S4-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	DE	246	Total	C	N	O	S	0	0
			1950	1248	361	338	3		

- Molecule 46 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	DF	213	Total	C	N	O	S	0	0
			1669	1045	307	314	3		

- Molecule 47 is a protein called 40S ribosomal protein S6-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	DG	218	Total	C	N	O	S	0	0
			1755	1102	337	313	3		

- Molecule 48 is a protein called 40S ribosomal protein S7-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
48	DH	170	Total 1361	C 880	N 235	O 246	0	0

- Molecule 49 is a protein called 40S ribosomal protein S8-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	DI	177	Total 1399	C 869	N 279	O 249	S 2	0	0

- Molecule 50 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	DJ	185	Total 1494	C 943	N 289	O 261	S 1	0	0

- Molecule 51 is a protein called 40S ribosomal protein S11-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	DL	140	Total 1129	C 724	N 215	O 187	S 3	0	0

- Molecule 52 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	DN	150	Total 1192	C 759	N 224	O 207	S 2	0	0

- Molecule 53 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	DO	127	Total 922	C 567	N 185	O 167	S 3	0	0

- Molecule 54 is a protein called 40S ribosomal protein S16-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
54	DQ	125	Total 969	C 623	N 174	O 172	0	0

- Molecule 55 is a protein called 40S ribosomal protein S18-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	DS	105	Total	C	N	O	S	0	0
			861	545	160	154	2		

- Molecule 56 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	DT	143	Total	C	N	O	S	0	0
			1112	694	208	208	2		

- Molecule 57 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	DW	129	Total	C	N	O	S	0	0
			1021	650	188	180	3		

- Molecule 58 is a protein called 40S ribosomal protein S23-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	DX	143	Total	C	N	O	S	0	0
			1115	705	219	189	2		

- Molecule 59 is a protein called 40S ribosomal protein S24-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
59	DY	134	Total	C	N	O	0	0
			1073	676	208	189		

- Molecule 60 is a protein called 40S ribosomal protein S28-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	Dc	63	Total	C	N	O	S	0	0
			497	306	99	91	1		

- Molecule 61 is a RNA chain called 5'ETS RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	D2	81	Total	C	N	O	P	0	0
			1741	777	319	564	81		

- Molecule 62 is a RNA chain called 18S rRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
62	D3	1409	Total	C	N	O	P	0	0
			30042	13429	5342	9862	1409		

- Molecule 63 is a RNA chain called U3 snoRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
63	D4	223	Total	C	N	O	P	0	0
			4720	2113	816	1568	223		

- Molecule 64 is a RNA chain called RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	EA	22	Total	C	N	O	P	0	0
			366	161	43	140	22		

- Molecule 65 is a protein called Exosome complex component RRP45.

Mol	Chain	Residues	Atoms				AltConf	Trace
65	EB	299	Total	C	N	O	0	0
			1475	877	299	299		

- Molecule 66 is a protein called Exosome complex component SKI6.

Mol	Chain	Residues	Atoms				AltConf	Trace
66	EC	243	Total	C	N	O	0	0
			1199	713	243	243		

- Molecule 67 is a protein called Exosome complex component RRP43.

Mol	Chain	Residues	Atoms				AltConf	Trace
67	ED	317	Total	C	N	O	1	0
			1571	937	317	317		

- Molecule 68 is a protein called Exosome complex component RRP46.

Mol	Chain	Residues	Atoms				AltConf	Trace
68	EE	223	Total	C	N	O	1	0
			1107	661	223	223		

- Molecule 69 is a protein called Exosome complex component RRP42.

Mol	Chain	Residues	Atoms				AltConf	Trace
69	EF	265	Total 1317	C 787	N 265	O 265	1	0

- Molecule 70 is a protein called Exosome complex component MTR3.

Mol	Chain	Residues	Atoms				AltConf	Trace
70	EG	215	Total 1058	C 628	N 215	O 215	0	0

- Molecule 71 is a protein called Exosome complex component RRP40.

Mol	Chain	Residues	Atoms				AltConf	Trace
71	EH	237	Total 1170	C 696	N 237	O 237	0	0

- Molecule 72 is a protein called Exosome complex component RRP4.

Mol	Chain	Residues	Atoms				AltConf	Trace
72	EI	293	Total 1440	C 854	N 293	O 293	0	0

- Molecule 73 is a protein called Exosome complex component CSL4.

Mol	Chain	Residues	Atoms				AltConf	Trace
73	EJ	222	Total 1091	C 647	N 222	O 222	0	0

- Molecule 74 is a protein called Exosome complex exonuclease DIS3.

Mol	Chain	Residues	Atoms				AltConf	Trace
74	EK	970	Total 4818	C 2878	N 970	O 970	1	0

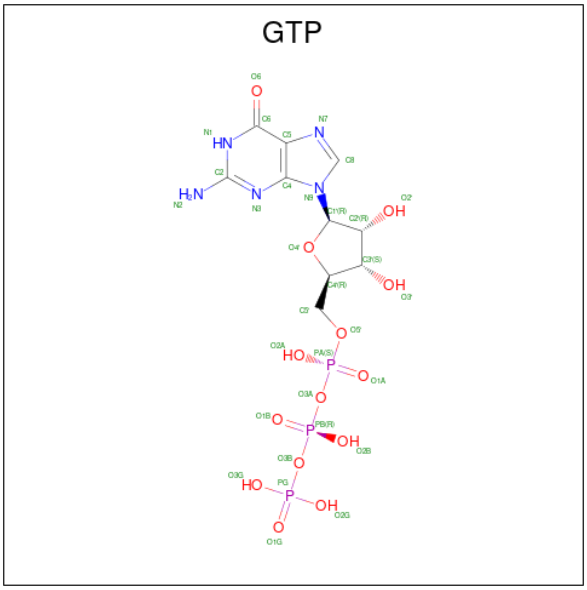
- Molecule 75 is a protein called ATP-dependent RNA helicase DOB1.

Mol	Chain	Residues	Atoms				AltConf	Trace
75	EN	963	Total 4762	C 2839	N 963	O 960	0	0

- Molecule 76 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	AltConf
76	UX	1	Total Zn 1 1	0
76	Db	1	Total Zn 1 1	0
76	EK	1	Total Zn 1 1	0

- Molecule 77 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



Mol	Chain	Residues	Atoms	AltConf
77	CL	1	Total C N O P 32 10 5 14 3	0

- Molecule 78 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

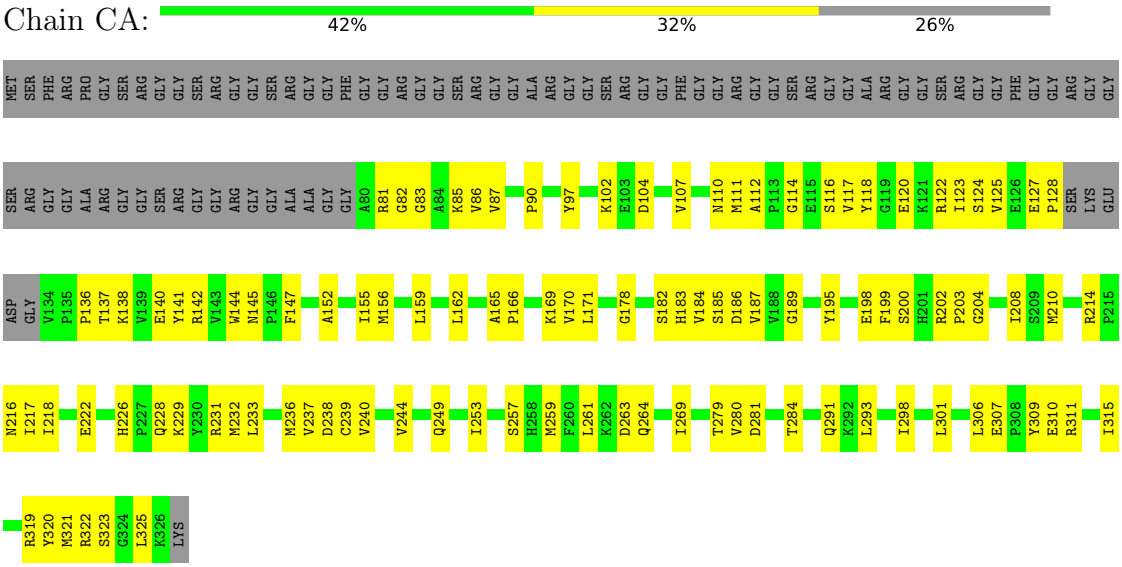
Mol	Chain	Residues	Atoms	AltConf
78	CL	1	Total Mg 1 1	0
78	EK	1	Total Mg 1 1	0

3 Residue-property plots (i)

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.

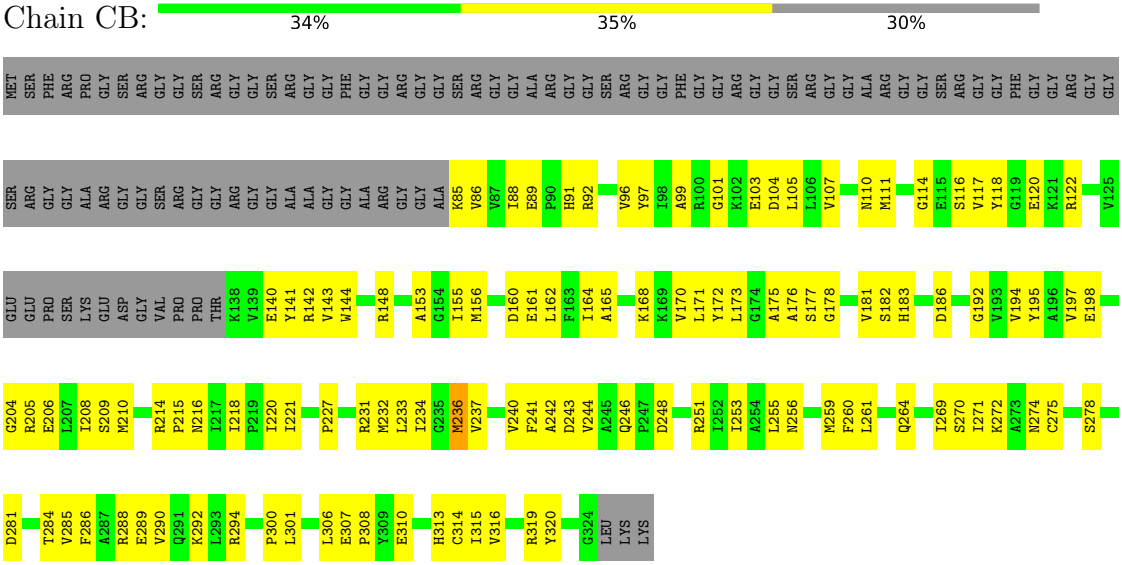
• Molecule 1: rRNA 2'-O-methyltransferase fibrillarin

Chain CA:



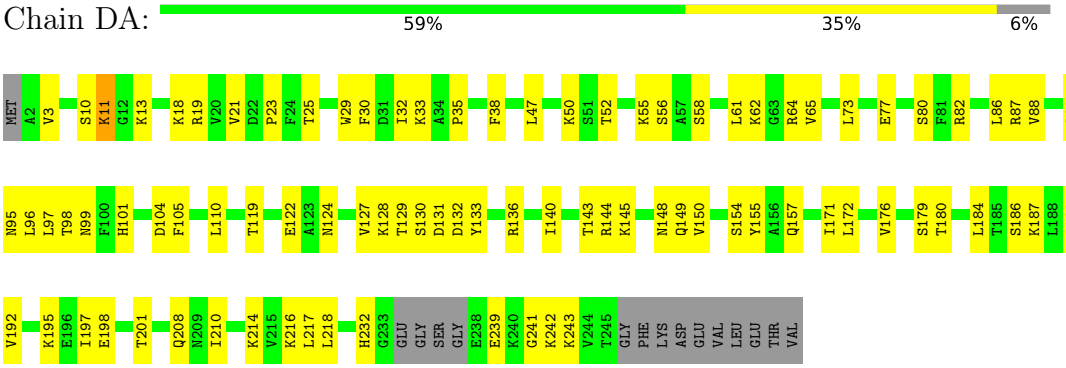
• Molecule 1: rRNA 2'-O-methyltransferase fibrillarin

Chain CB:



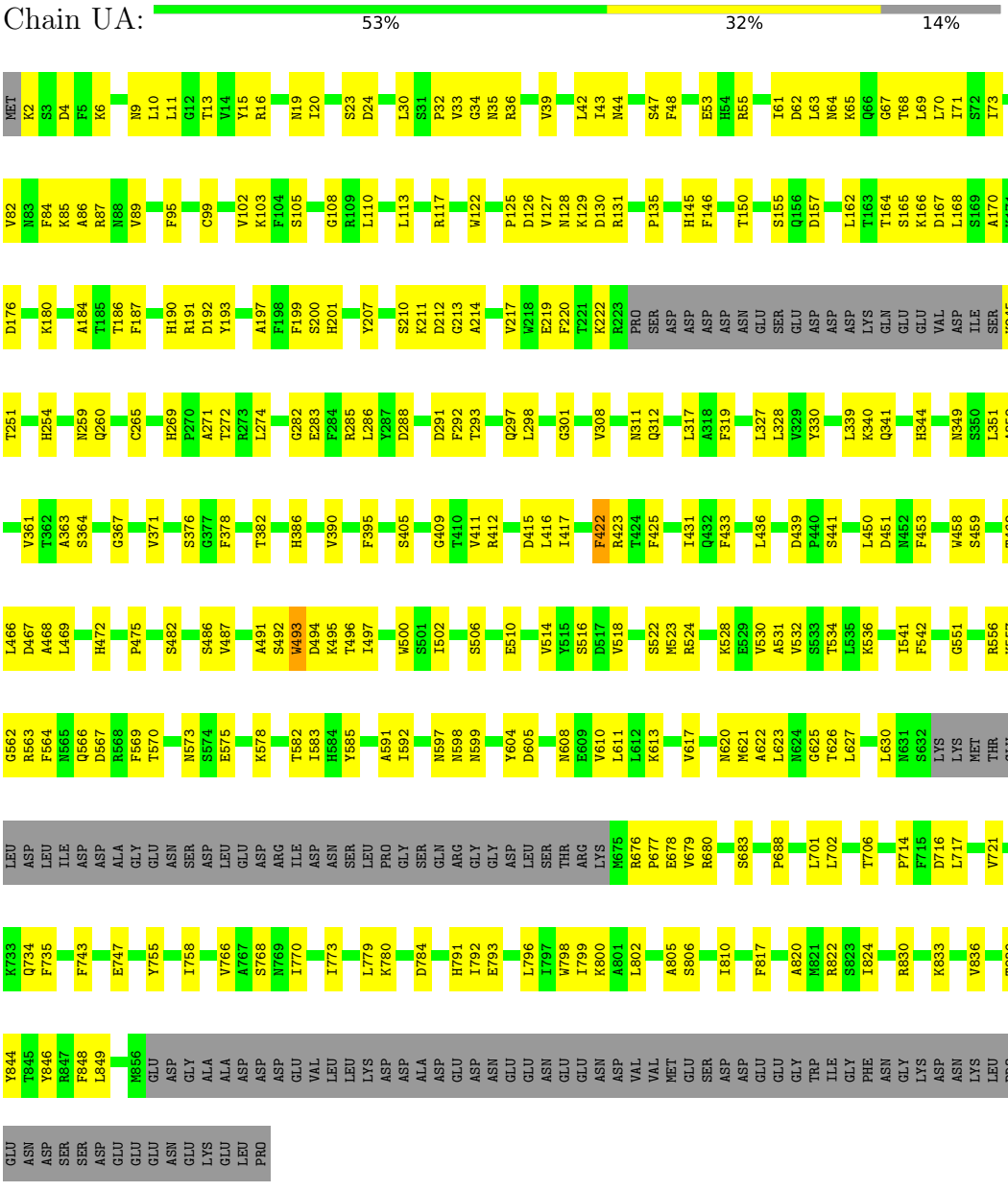
• Molecule 2: 40S ribosomal protein S1-A

Chain DA:



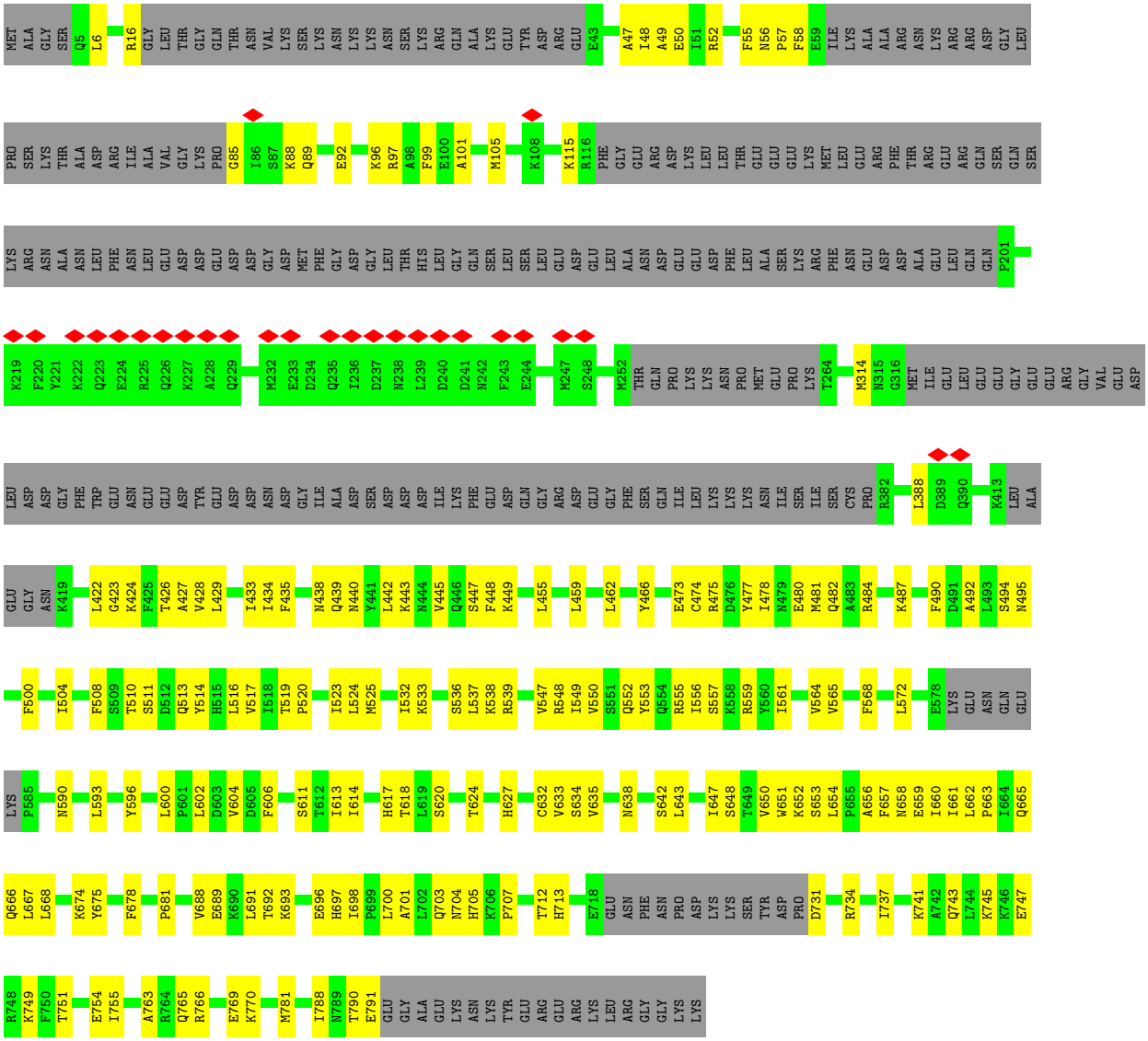
• Molecule 3: Periodic tryptophan protein 2

Chain UA:



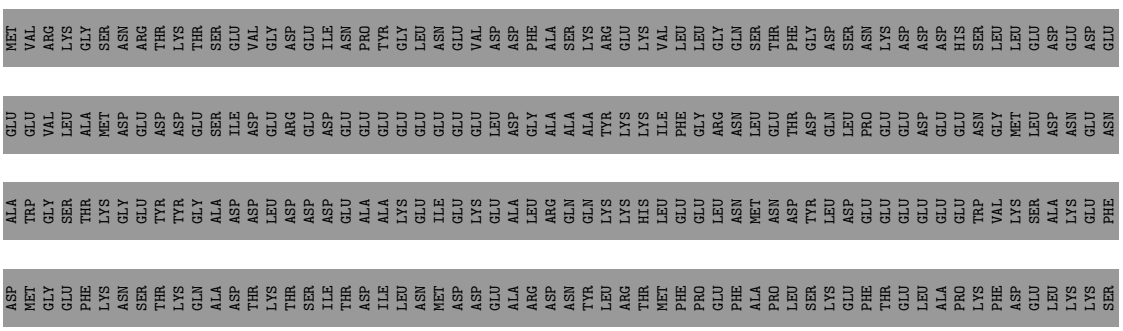
• Molecule 4: Nucleolar complex protein 14

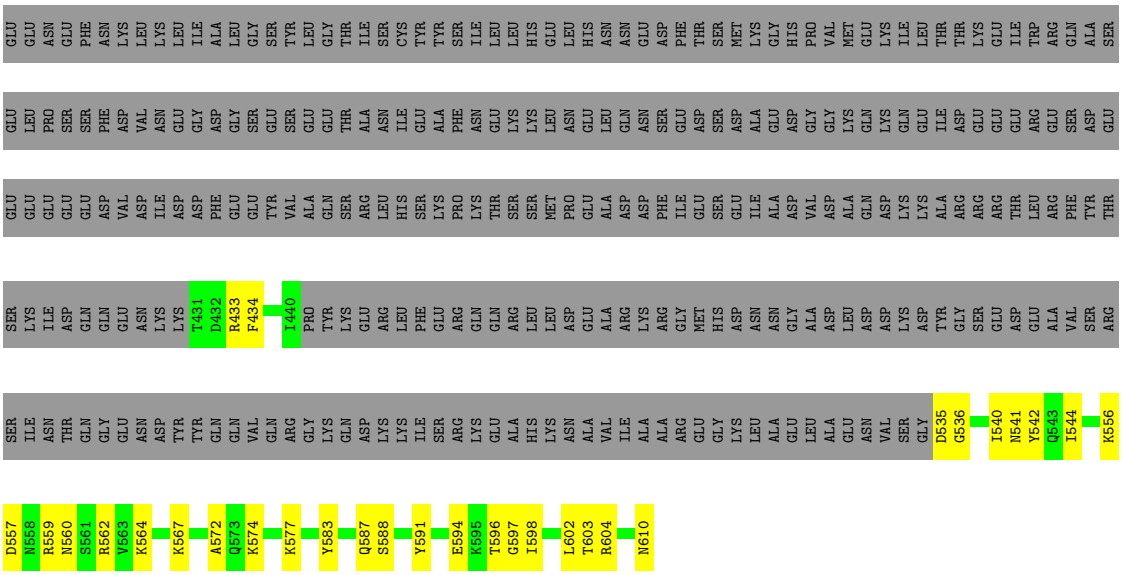
Chain UB:



• Molecule 5: Something about silencing protein 10

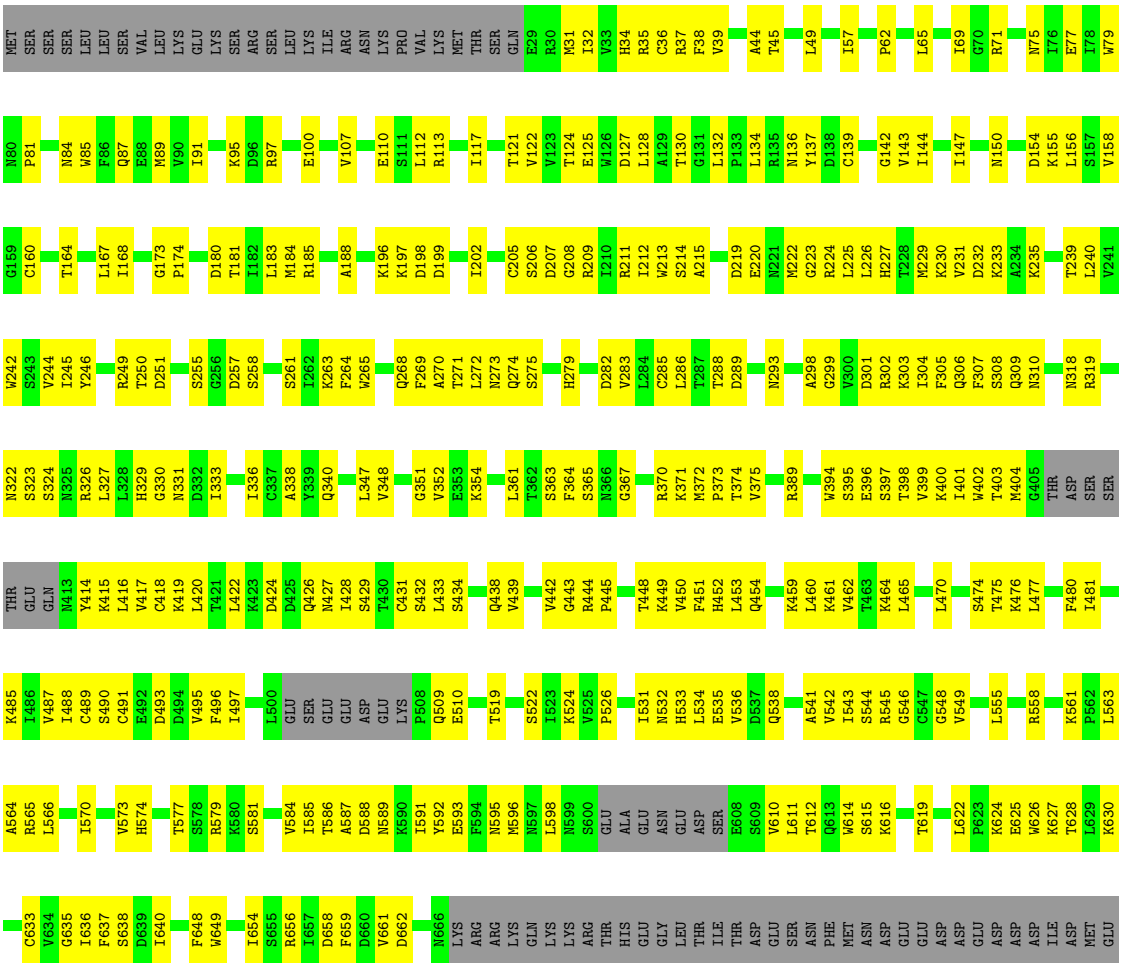
Chain UC:

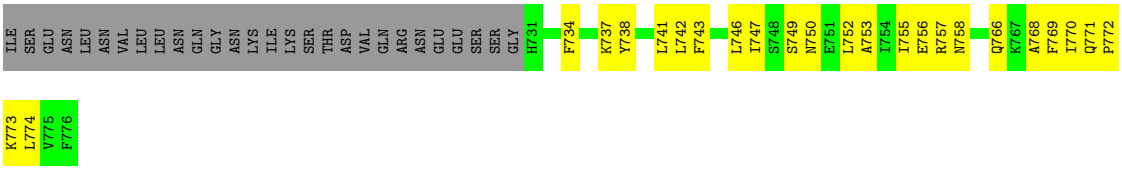




• Molecule 6: U3 small nucleolar RNA-associated protein 4

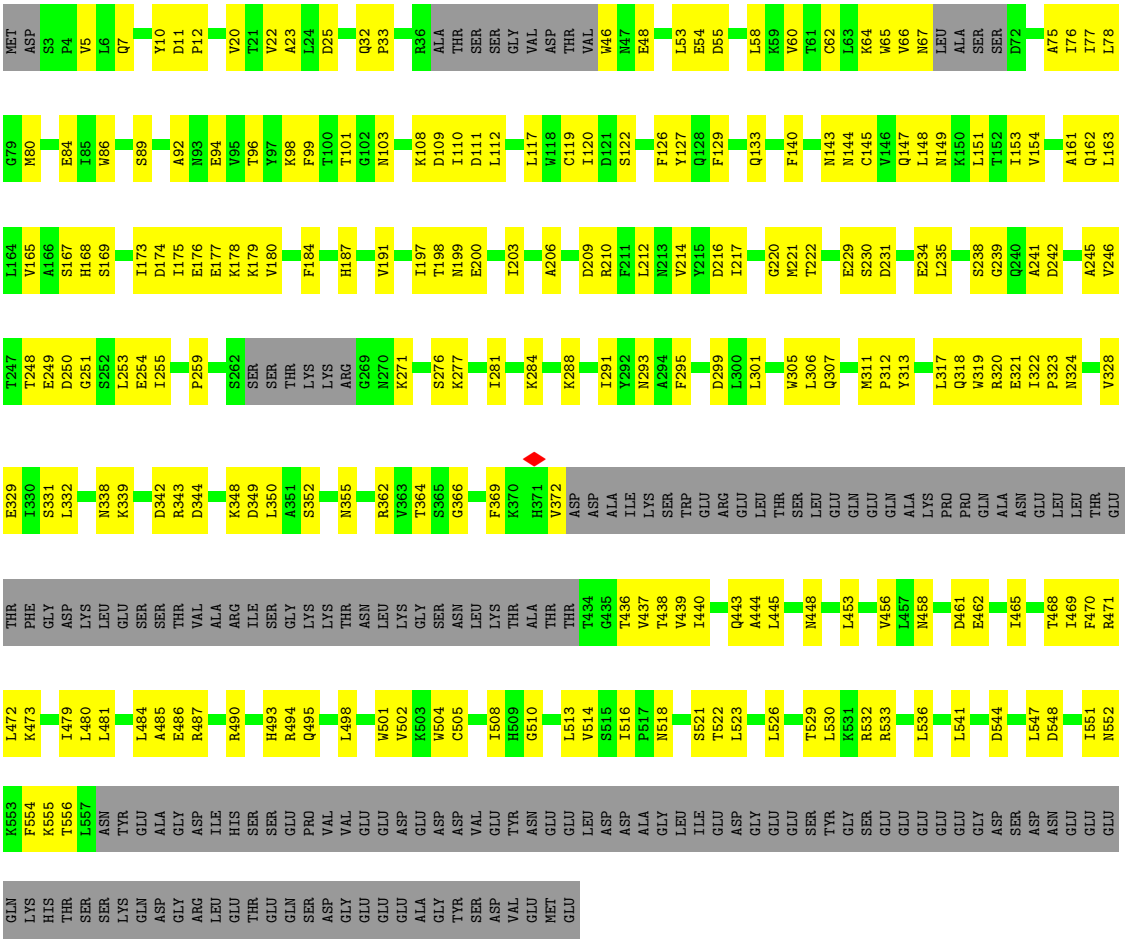
Chain UD:





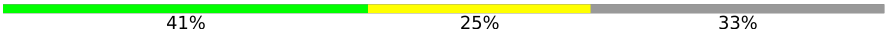
• Molecule 7: U3 small nucleolar RNA-associated protein 5

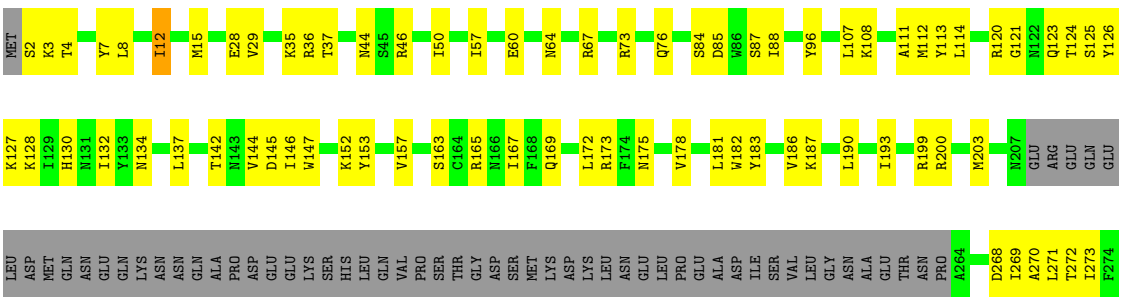
Chain UE:

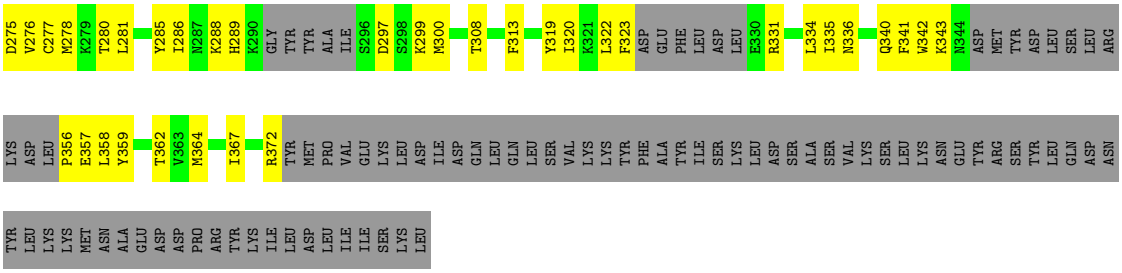


• Molecule 8: U3 small nucleolar RNA-associated protein 6

Chain UF:

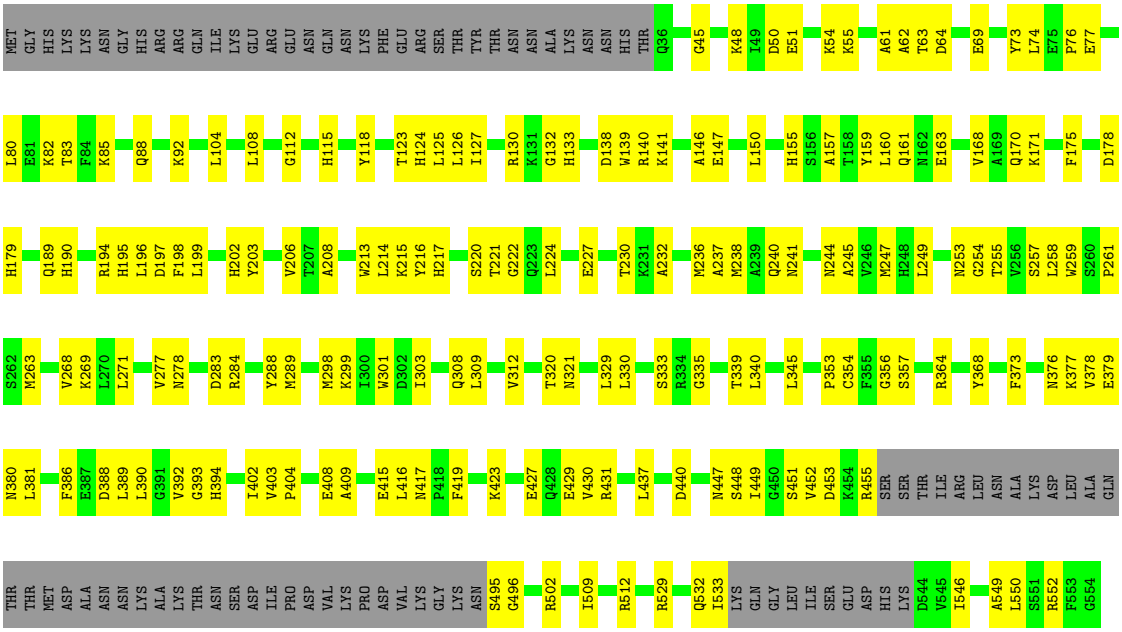






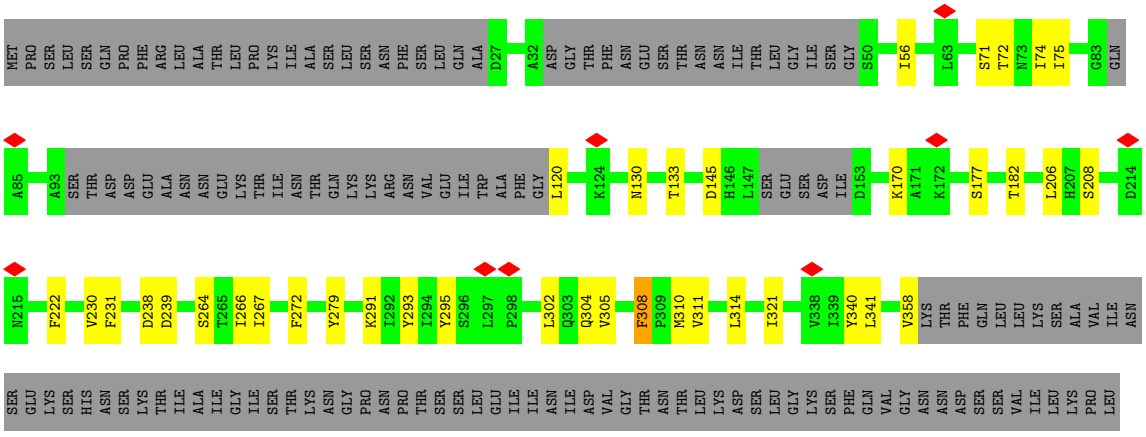
• Molecule 9: U3 small nucleolar RNA-associated protein 7

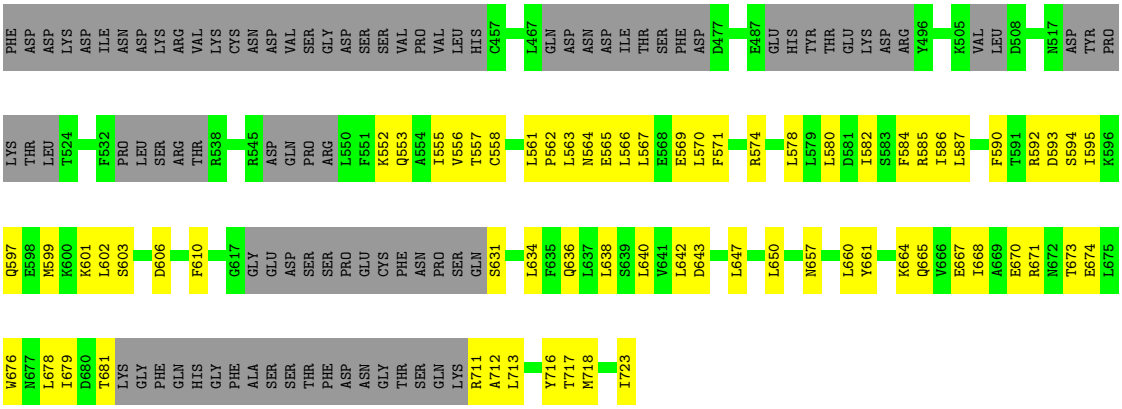
Chain UG:



• Molecule 10: U3 small nucleolar RNA-associated protein 8

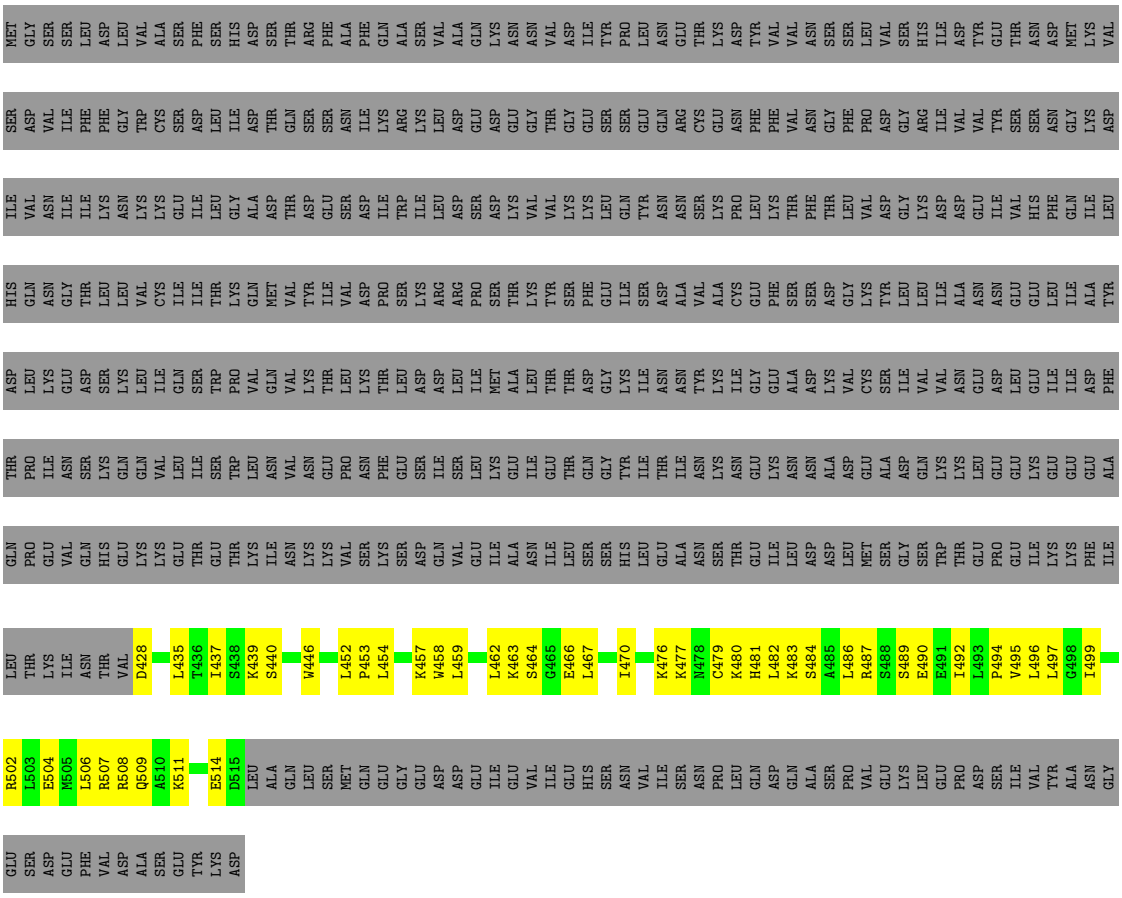
Chain UH:





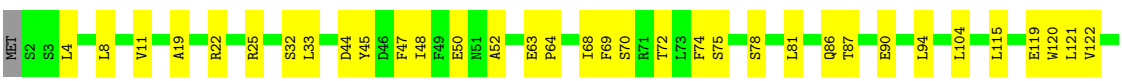
• Molecule 11: U3 small nucleolar RNA-associated protein 9

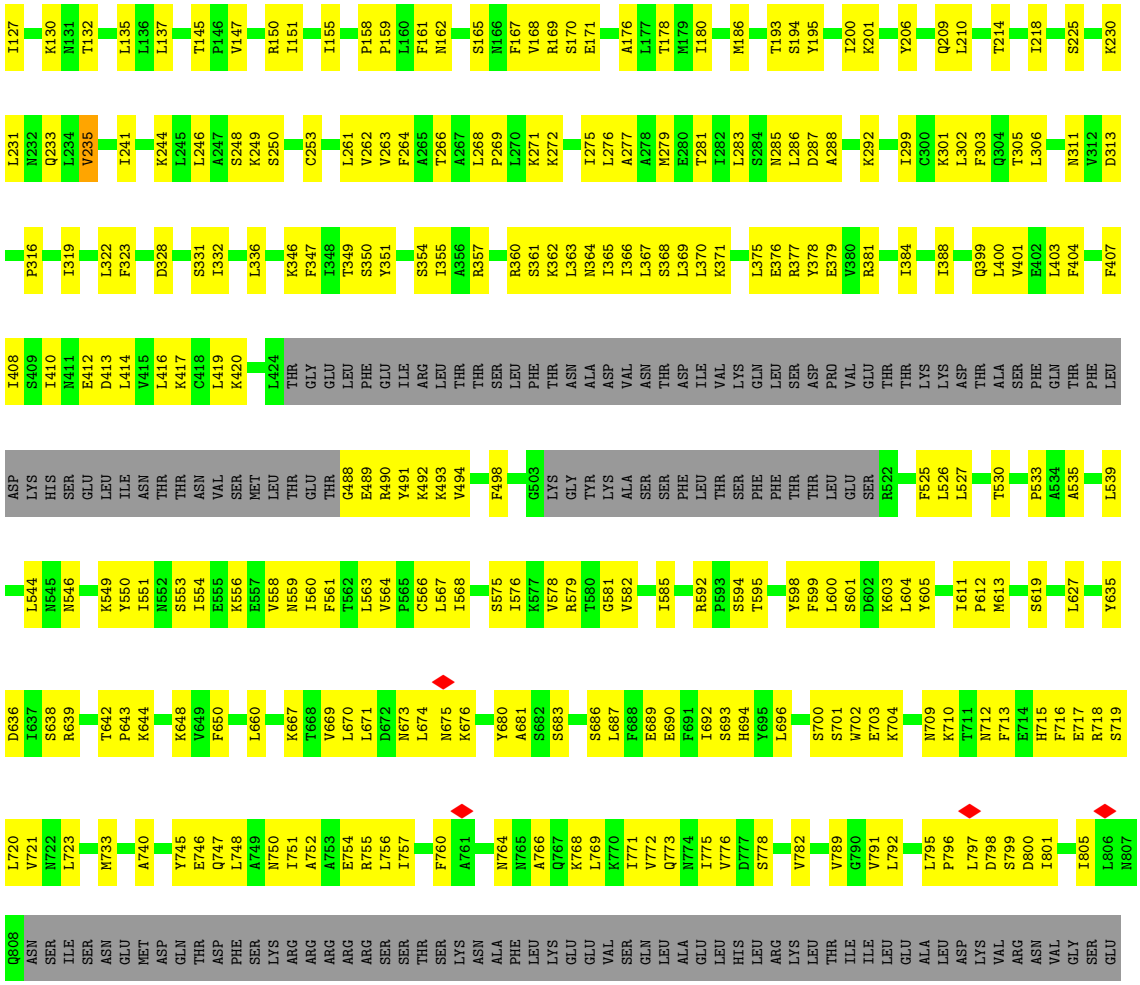
Chain UI: 8% 8% 85%

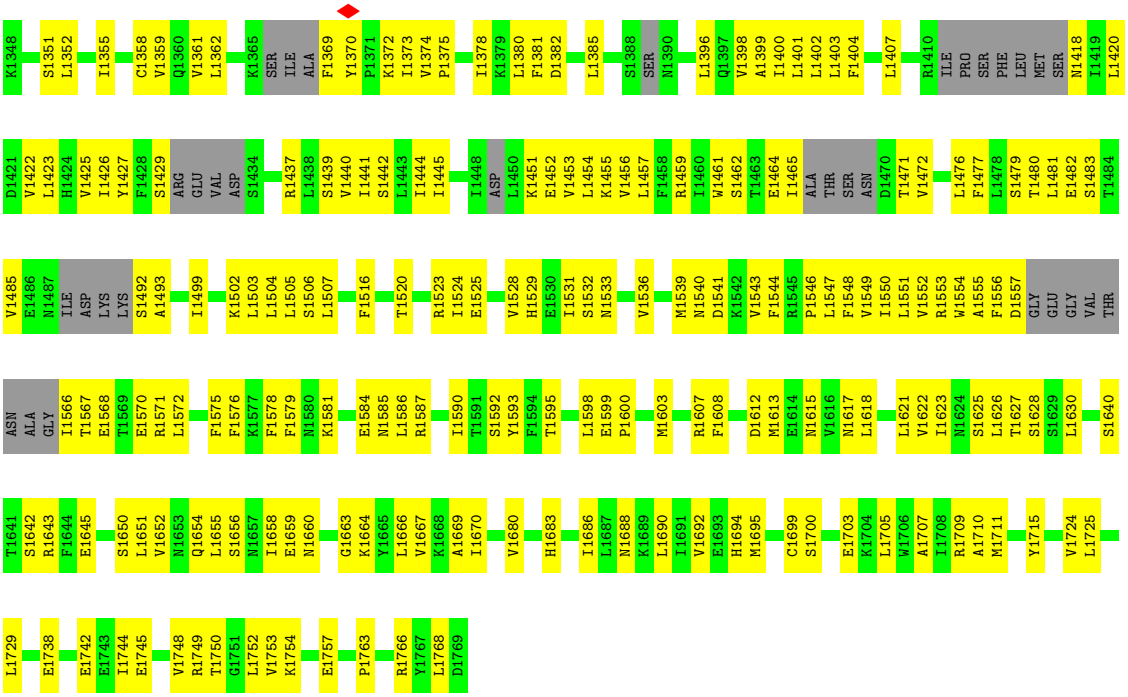


• Molecule 12: U3 small nucleolar RNA-associated protein 10

Chain UJ: 36% 27% 37%

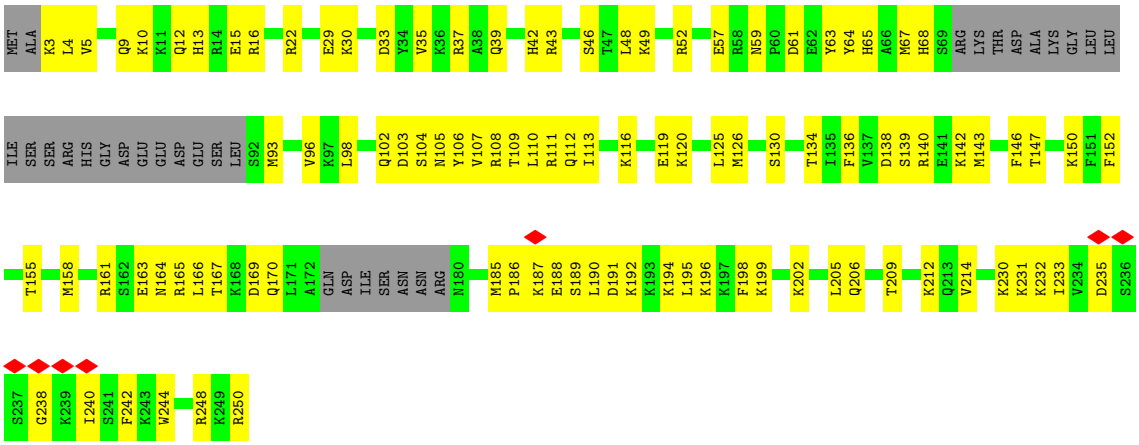






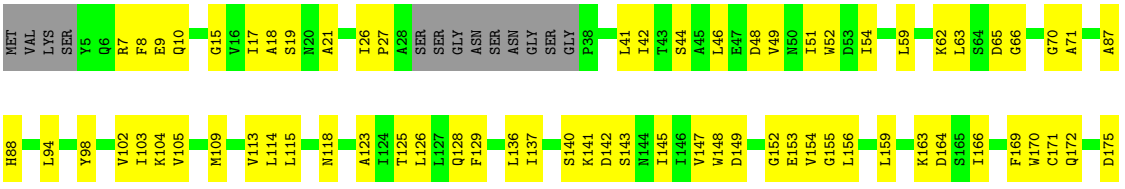
• Molecule 13: U3 small nucleolar RNA-associated protein 11

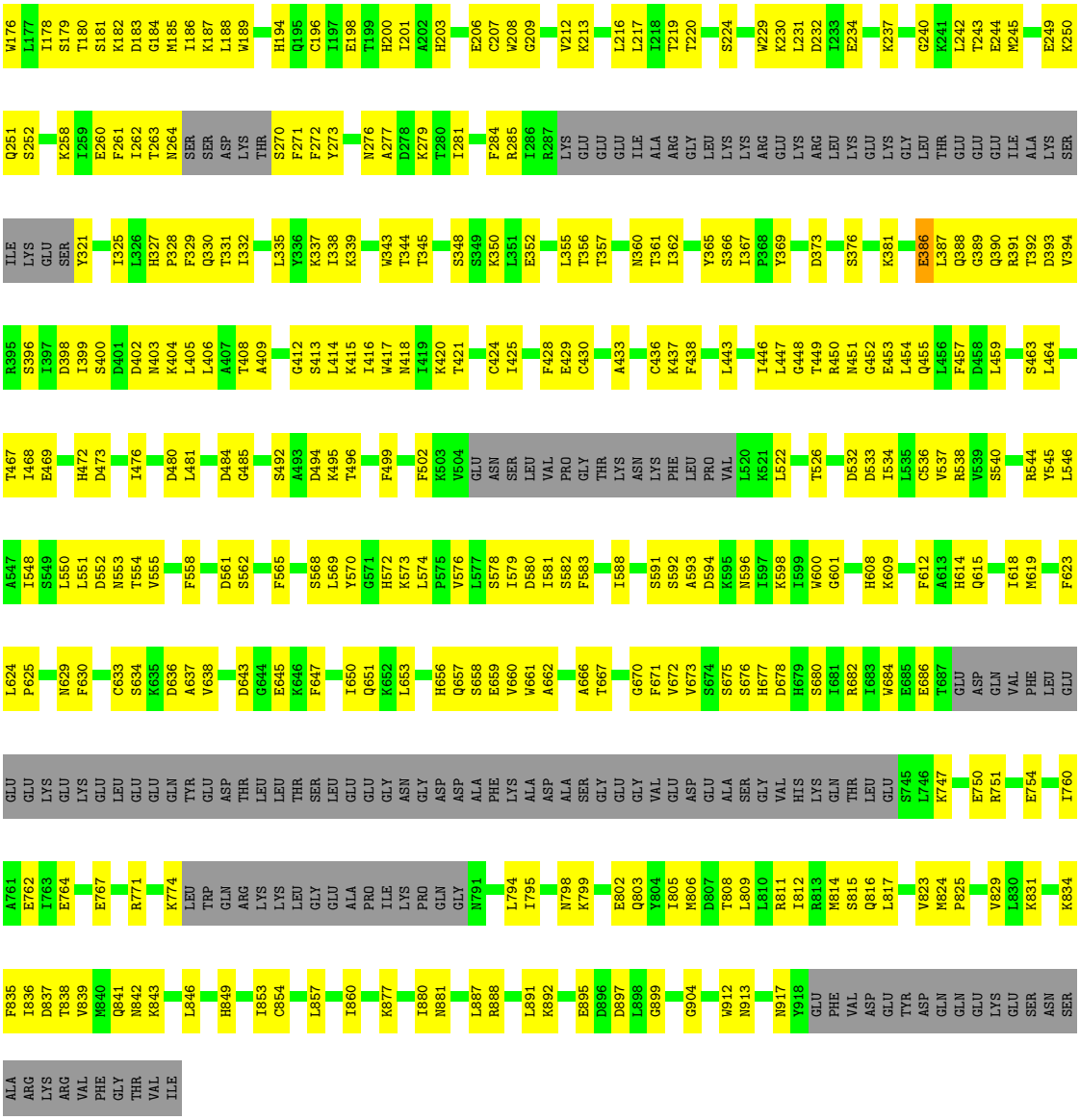
Chain UK:



• Molecule 14: U3 small nucleolar RNA-associated protein 12

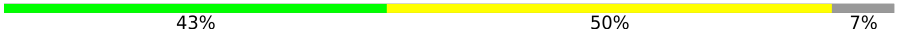
Chain UL:

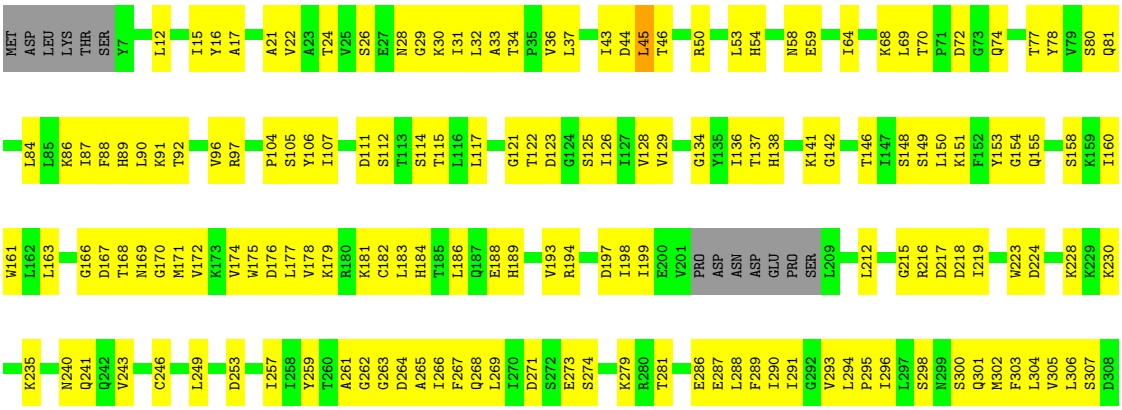


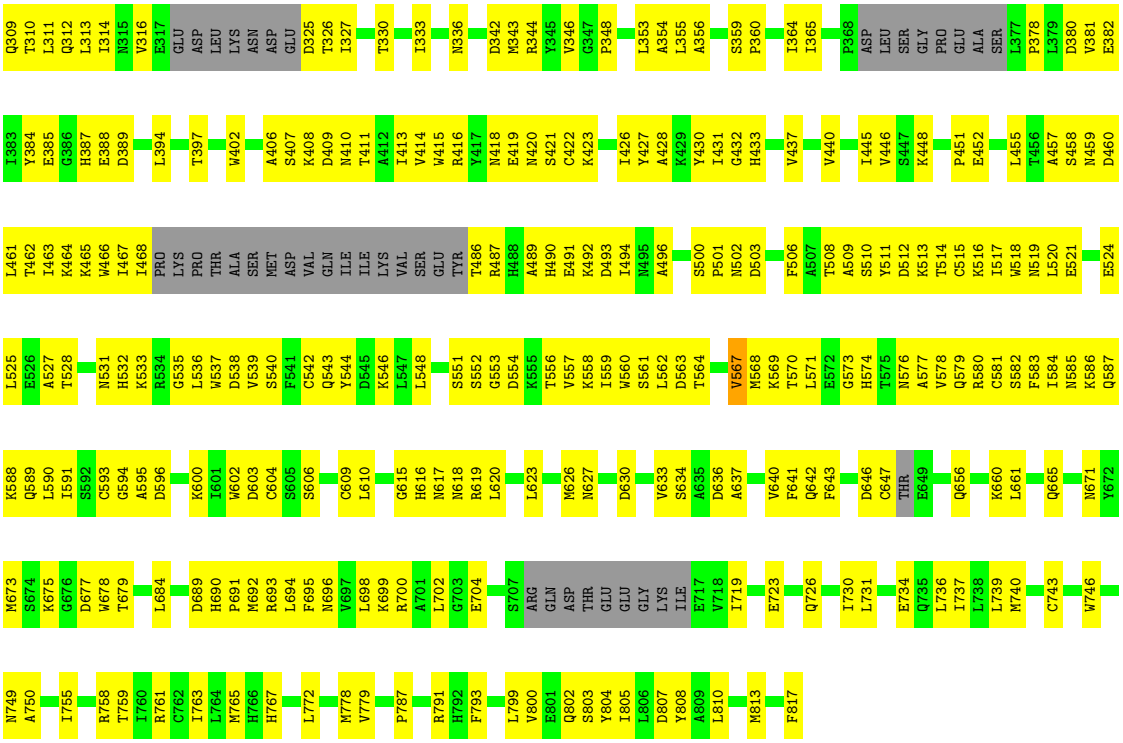


• Molecule 15: U3 small nucleolar RNA-associated protein 13

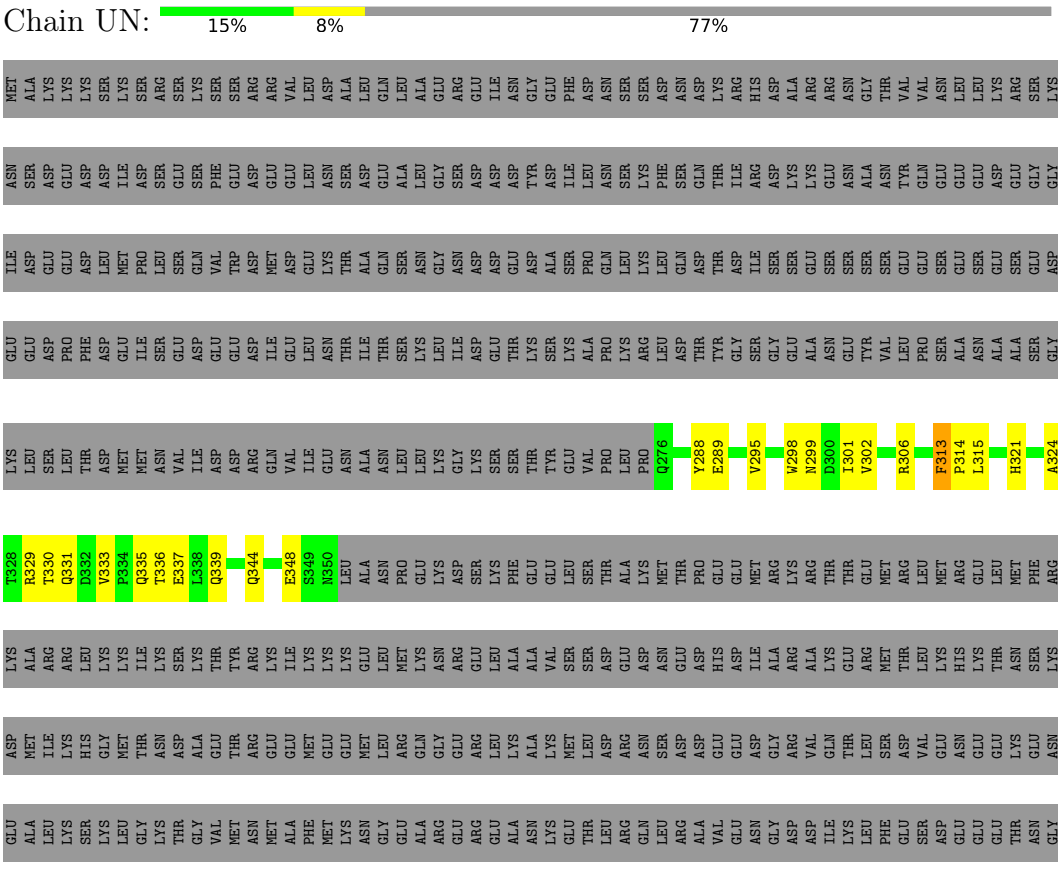
Chain UM:

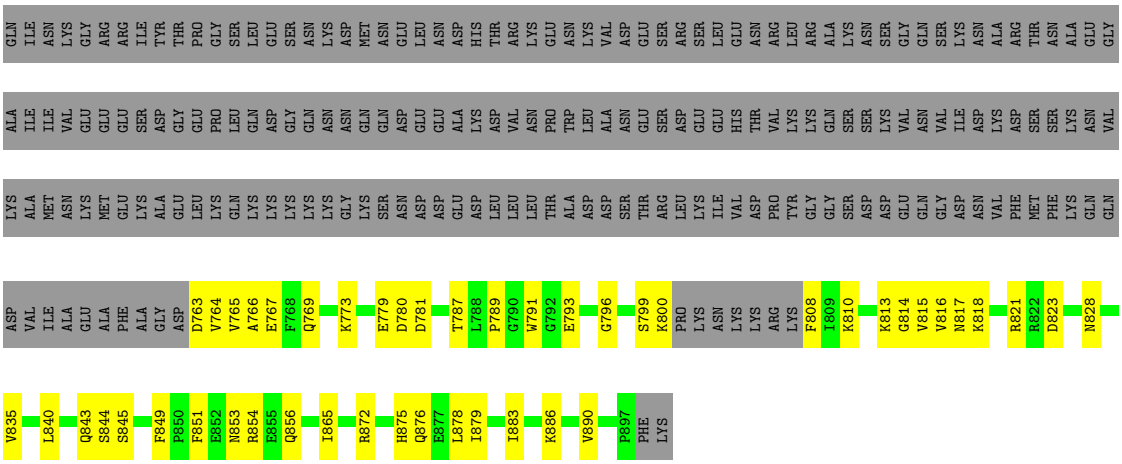






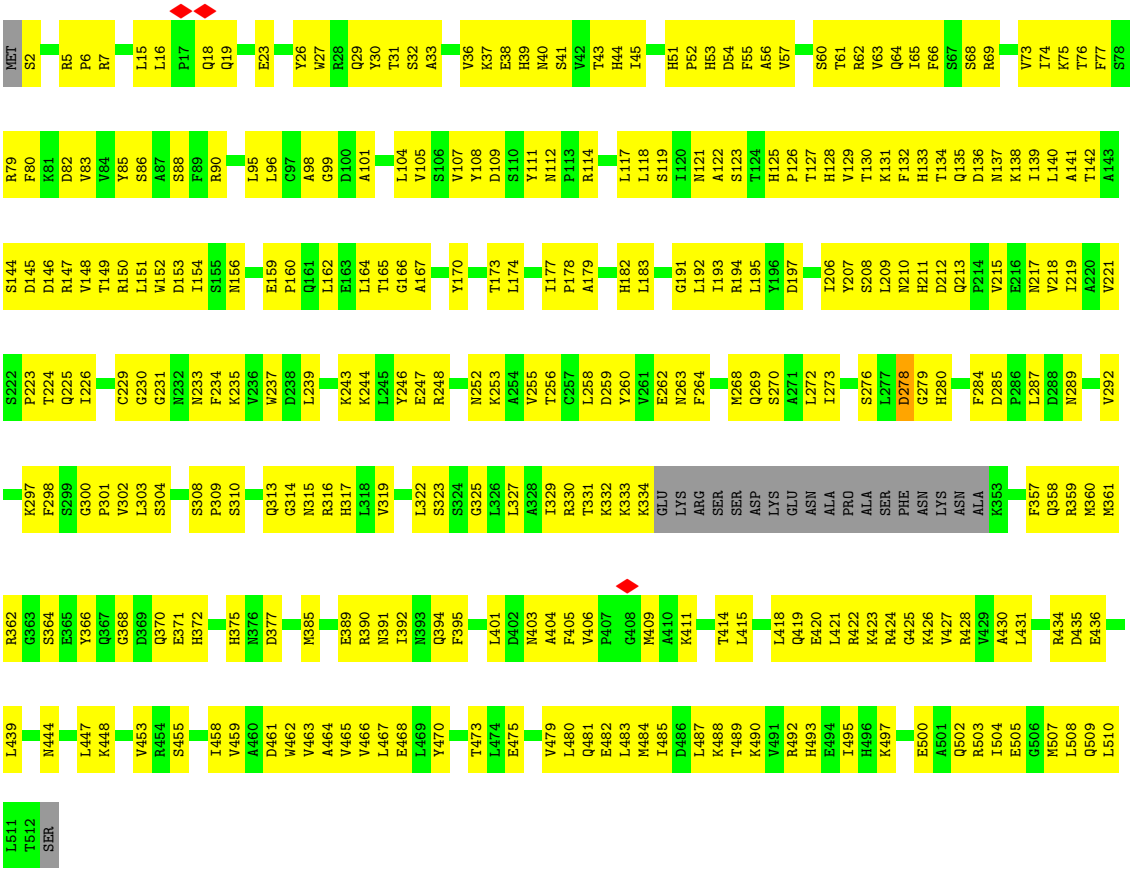
• Molecule 16: U3 small nucleolar RNA-associated protein 14





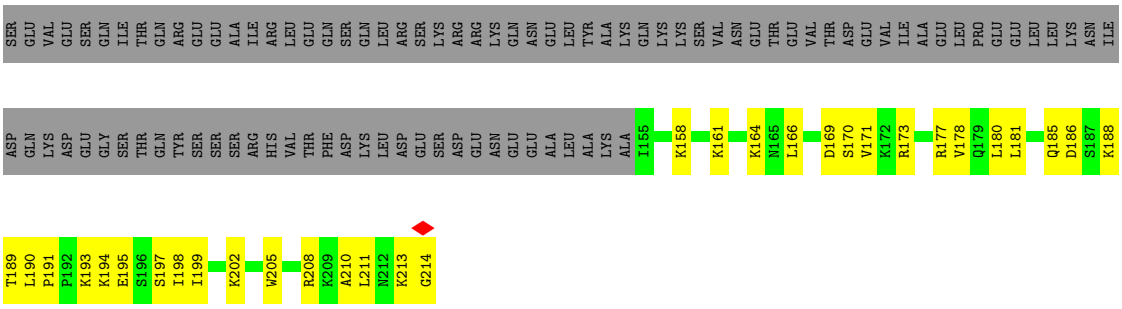
• Molecule 17: U3 small nucleolar RNA-associated protein 15

Chain UO:



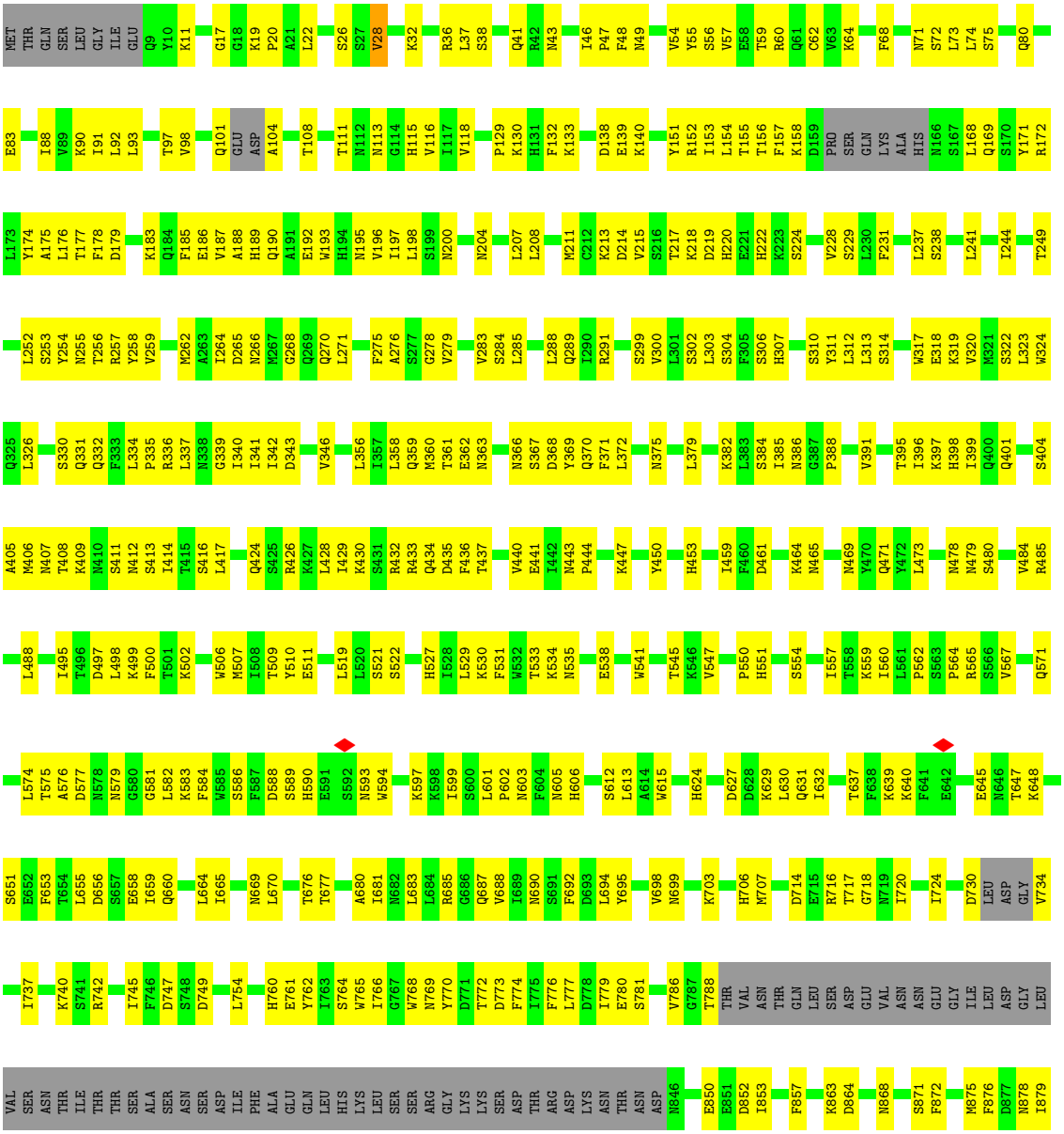
• Molecule 18: Bud site selection protein 21

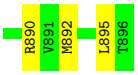
Chain UP:



• Molecule 19: NET1-associated nuclear protein 1

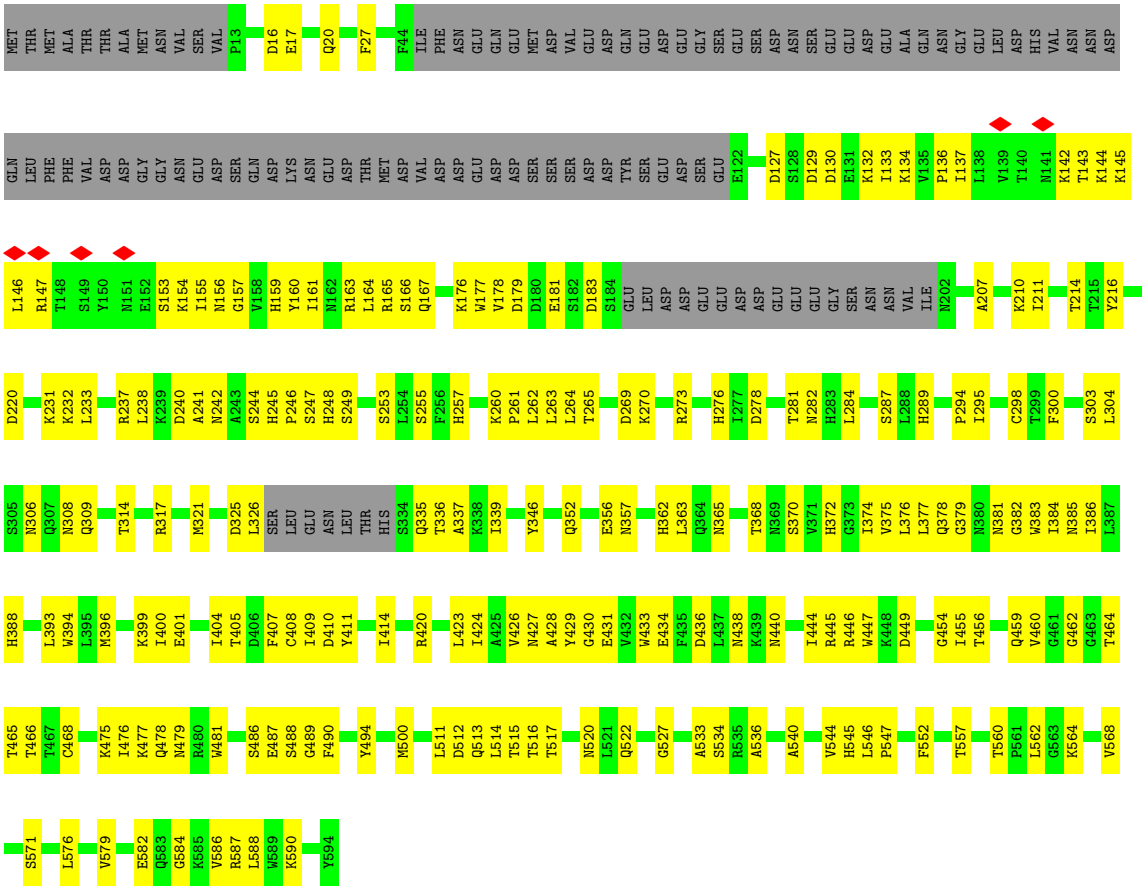
Chain UQ:





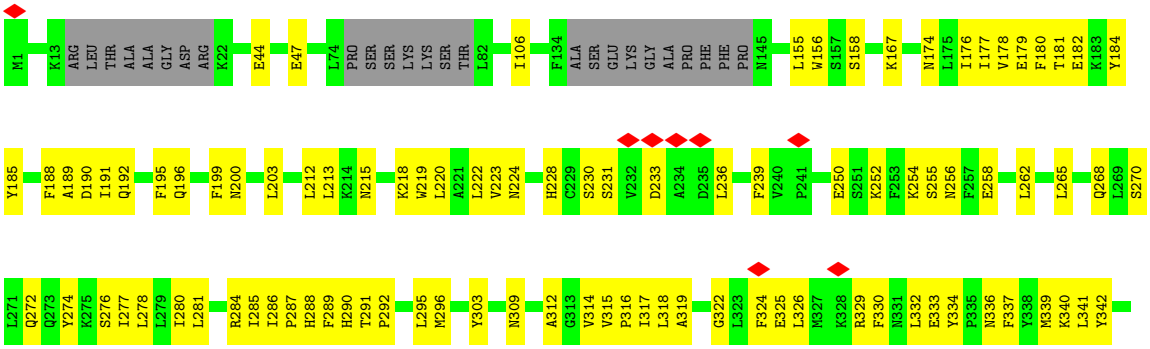
• Molecule 20: U3 small nucleolar RNA-associated protein 18

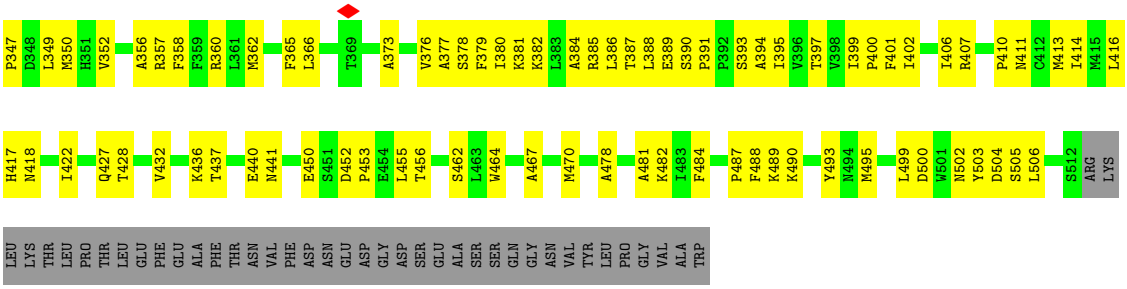
Chain UR:



• Molecule 21: Nucleolar complex protein 4

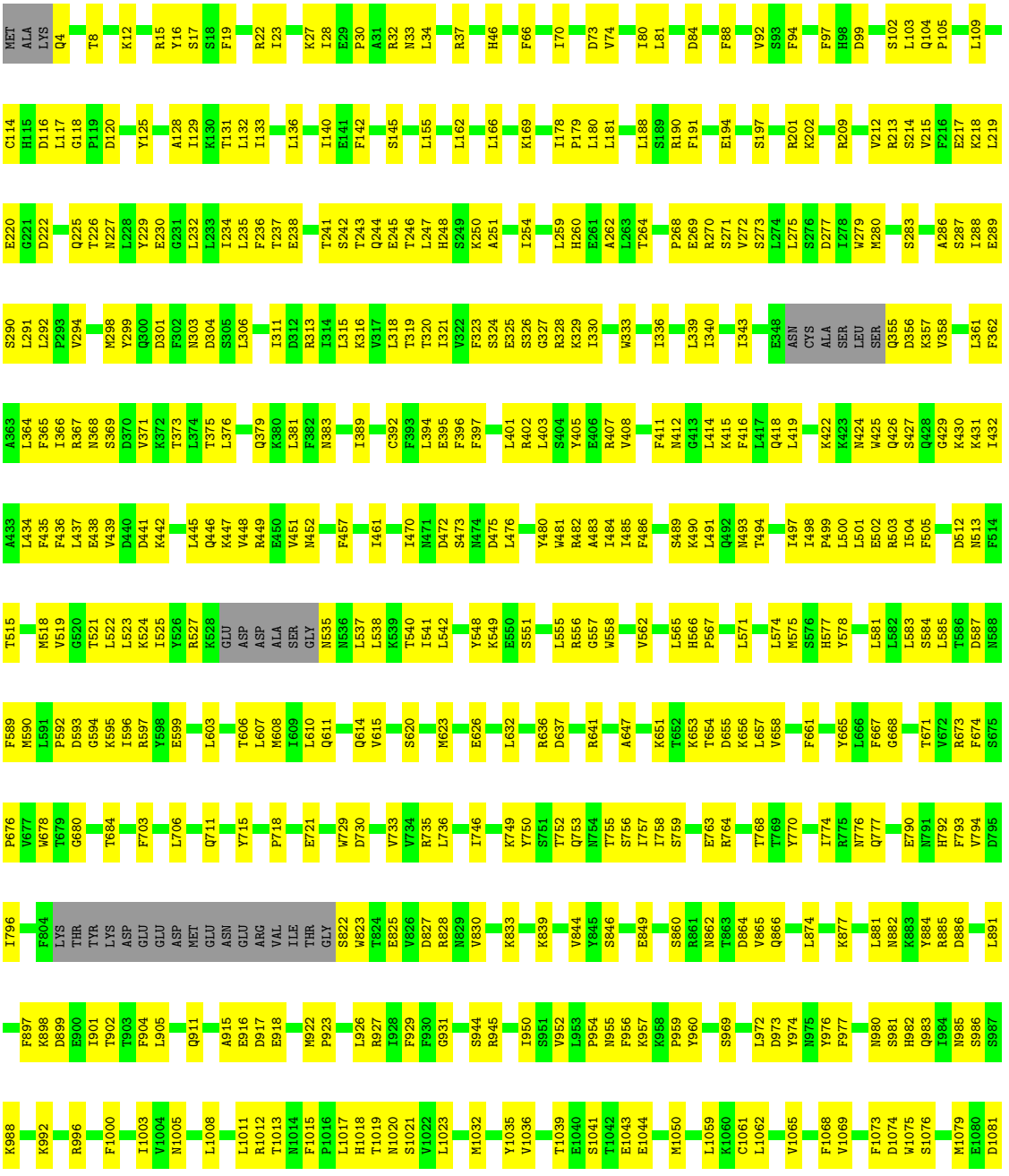
Chain US:

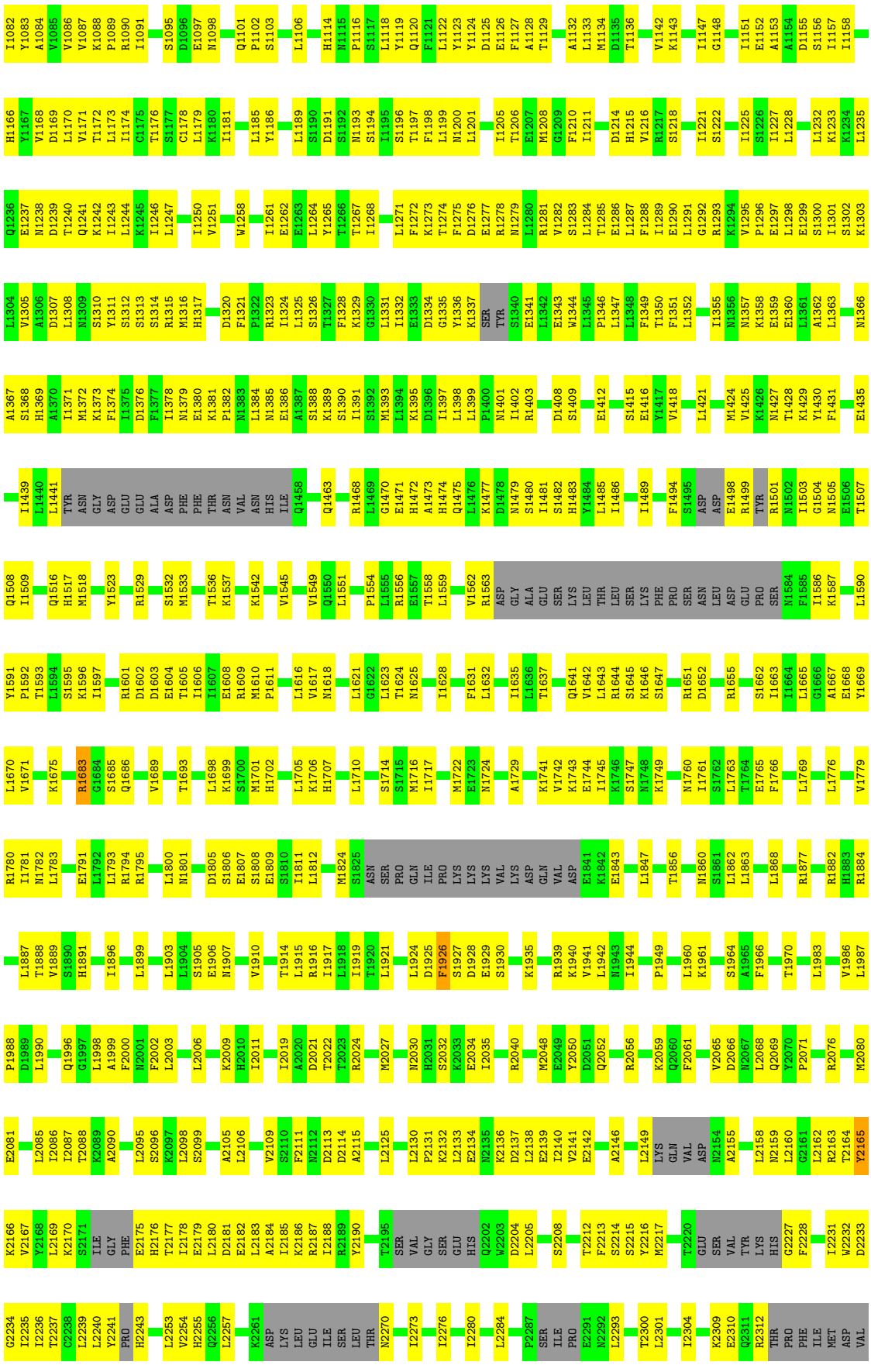




• Molecule 22: U3 small nucleolar RNA-associated protein 20

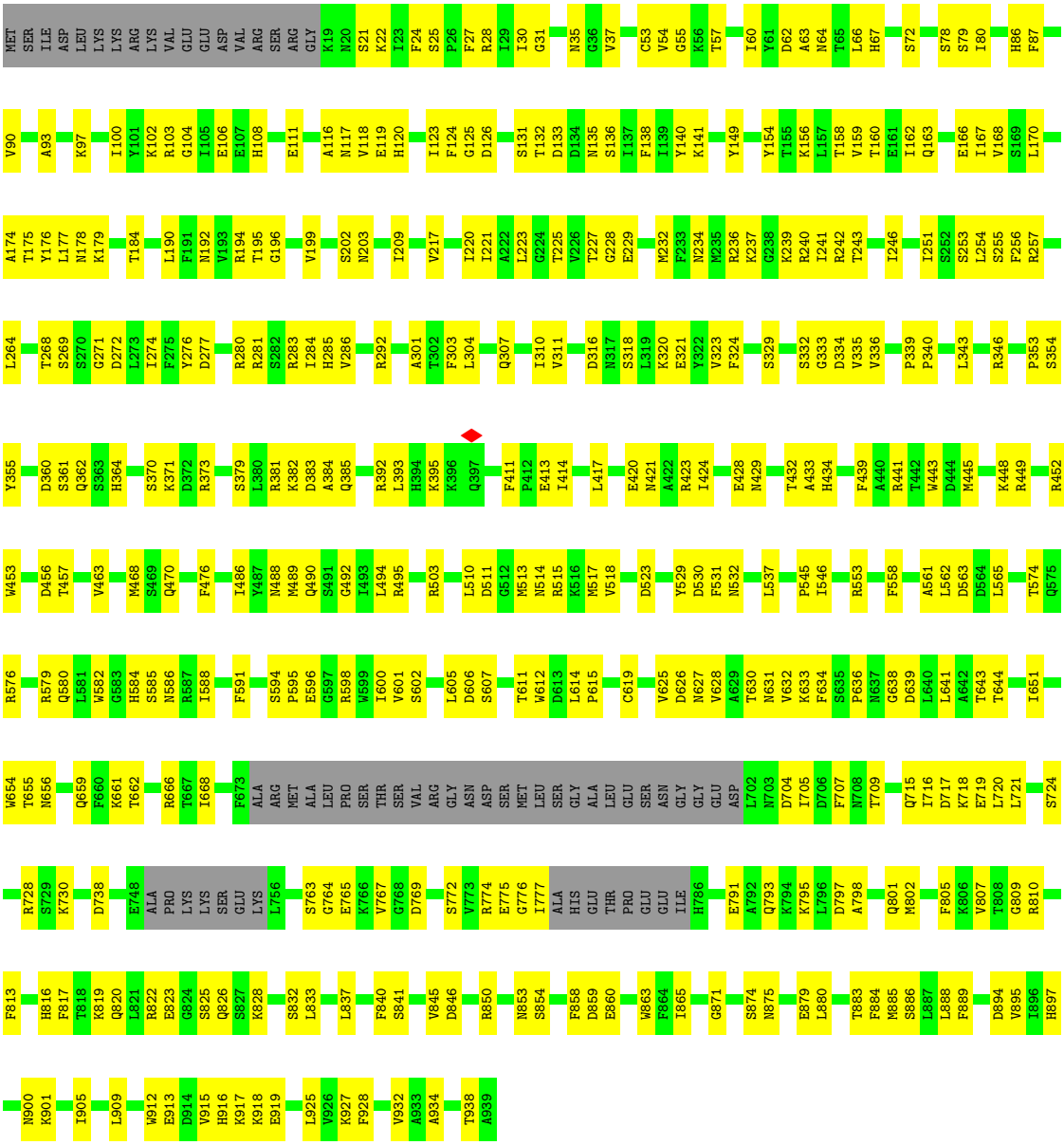
Chain UT:





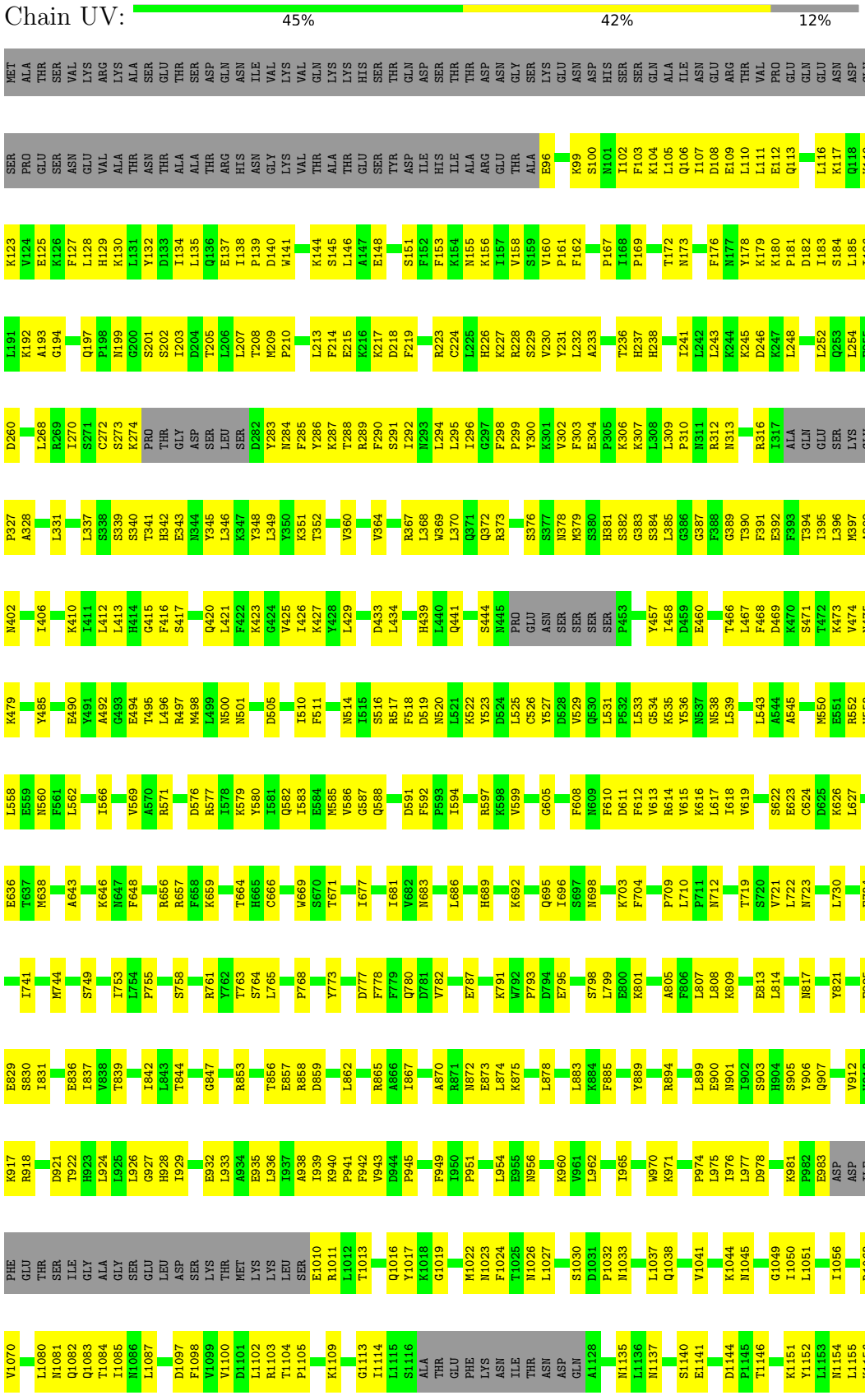
• Molecule 23: U3 small nucleolar RNA-associated protein 21

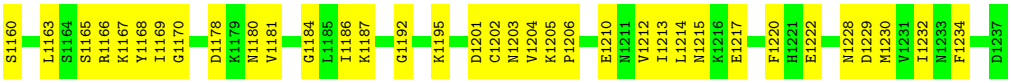
Chain UU:



• Molecule 24: U3 small nucleolar RNA-associated protein 22

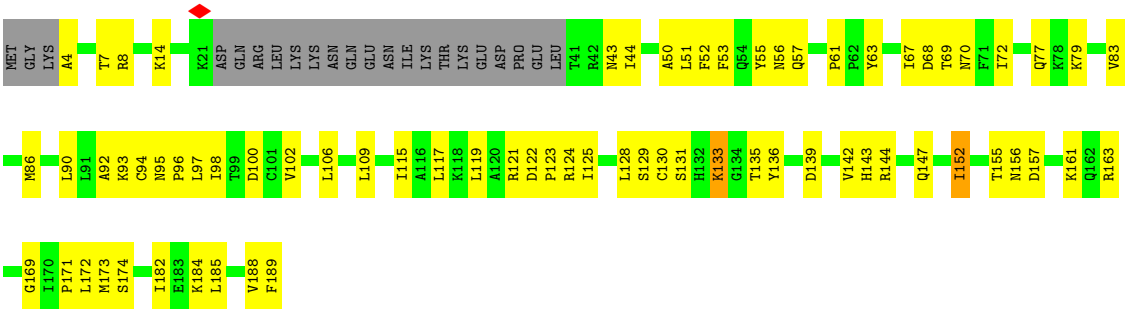
Chain UV:





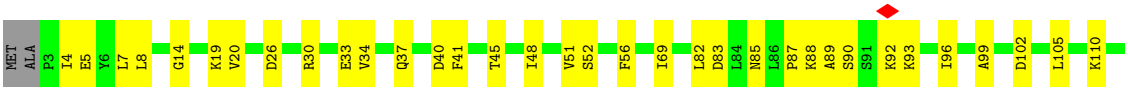
• Molecule 25: rRNA-processing protein FCF1

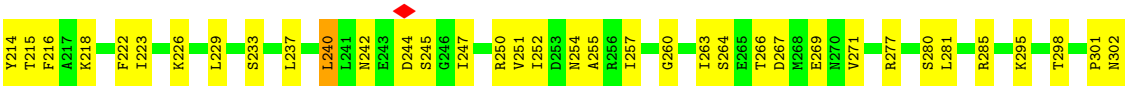
Chain UX:



• Molecule 26: Nucleolar protein 56

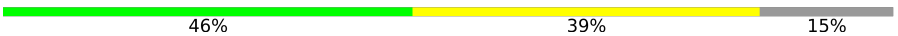
Chain CD:

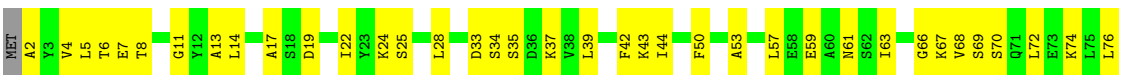


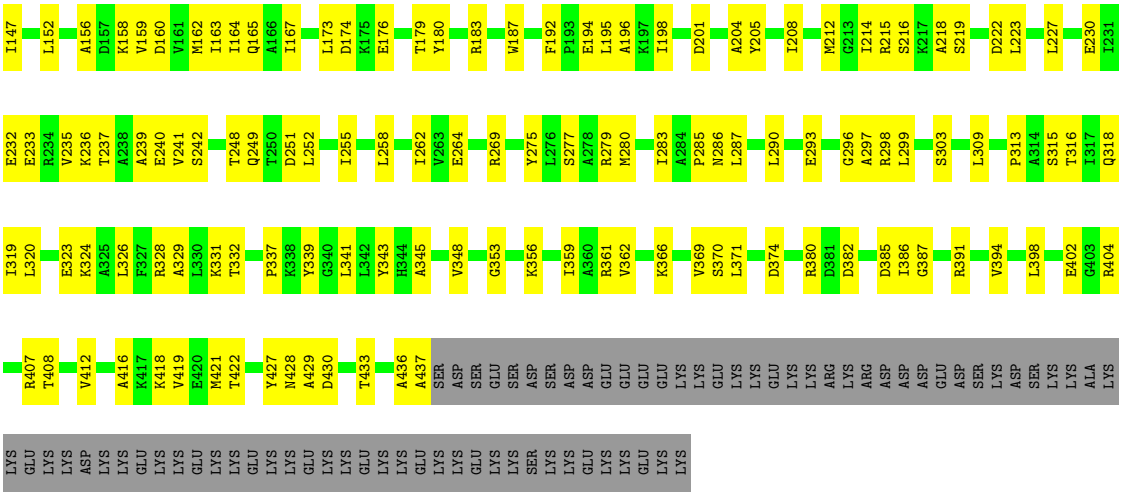


• Molecule 27: Nucleolar protein 58

Chain CE:

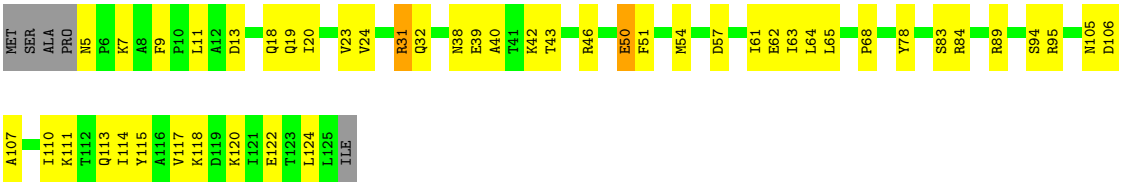






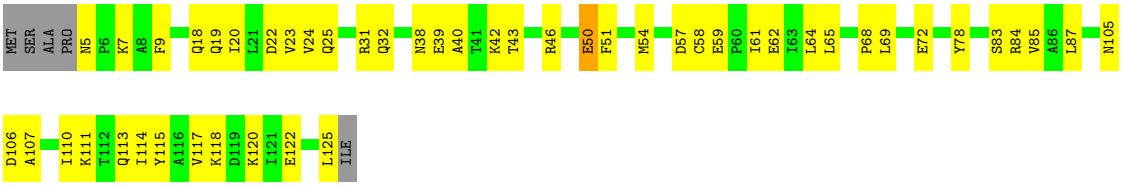
• Molecule 28: 13 kDa ribonucleoprotein-associated protein

Chain CF:



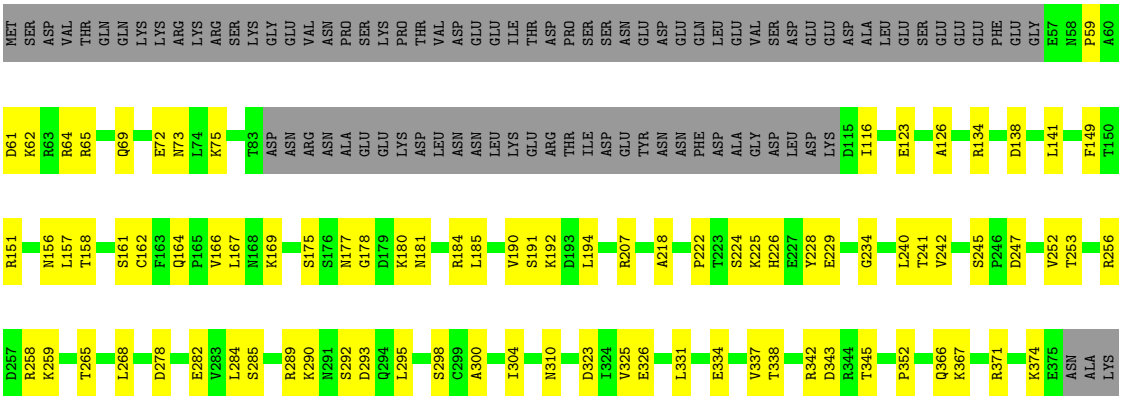
• Molecule 28: 13 kDa ribonucleoprotein-associated protein

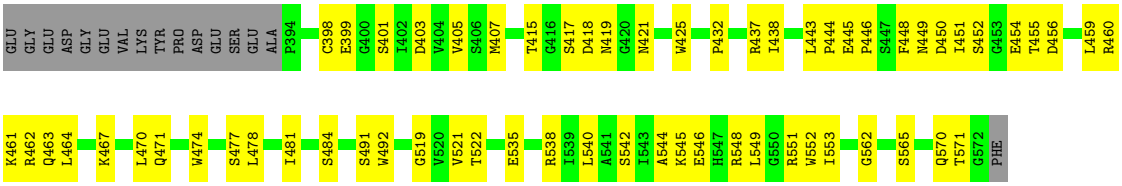
Chain CG:



• Molecule 29: Ribosomal RNA-processing protein 9

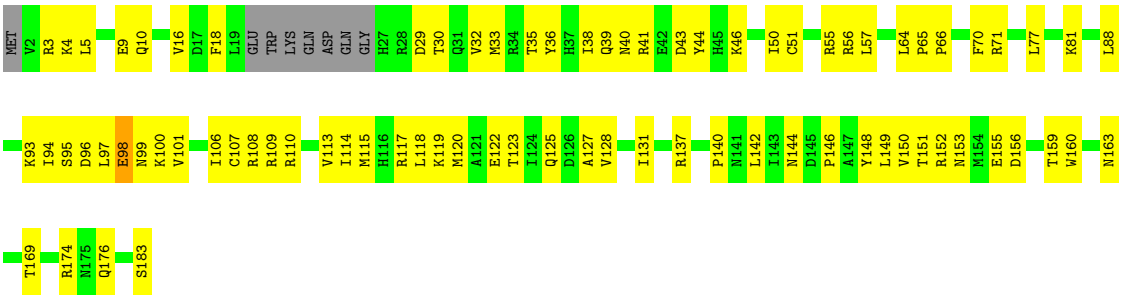
Chain CH:





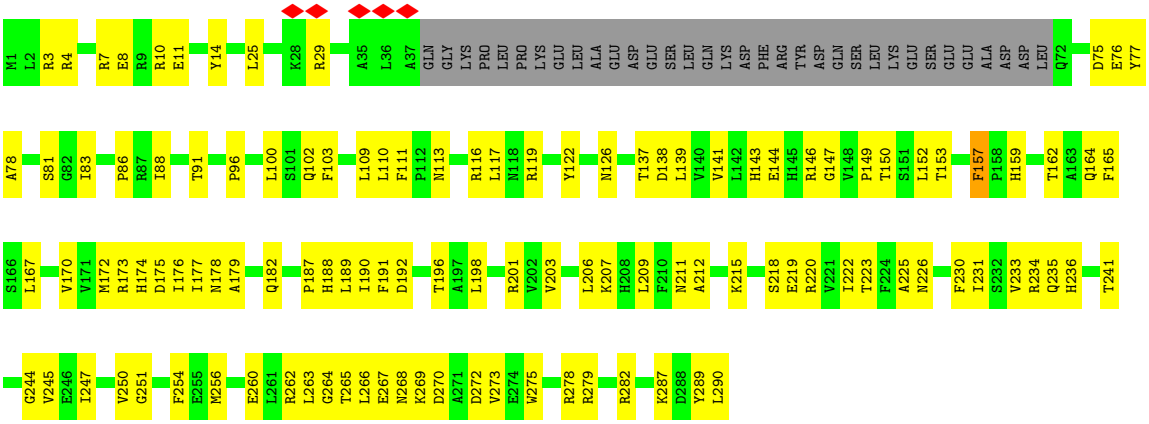
• Molecule 30: U3 small nucleolar ribonucleoprotein protein IMP3

Chain CI:



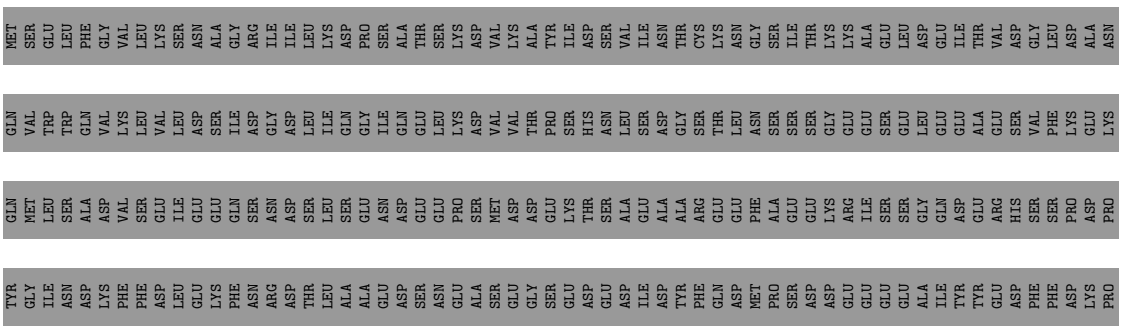
• Molecule 31: U3 small nucleolar ribonucleoprotein protein IMP4

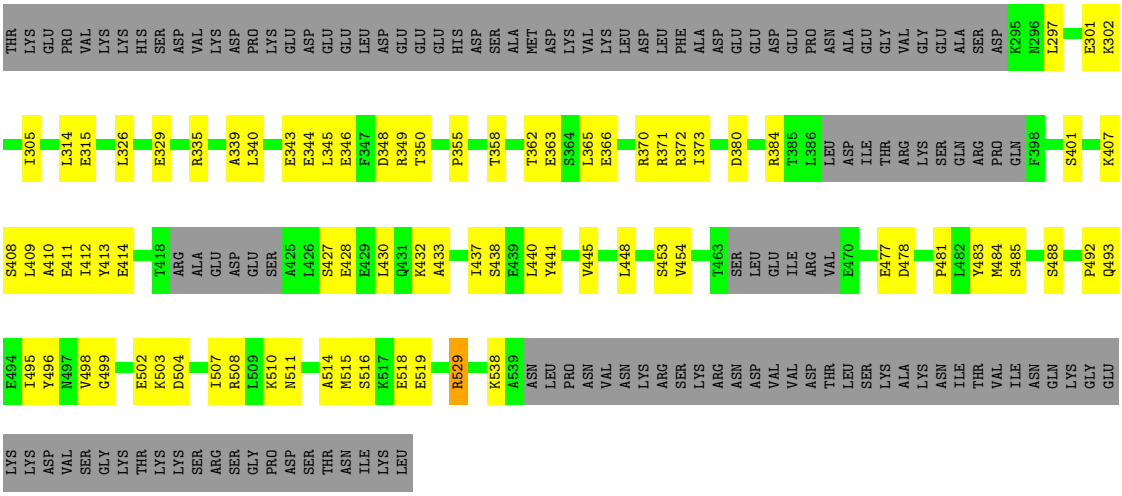
Chain CJ:



• Molecule 32: U3 small nucleolar RNA-associated protein MPP10

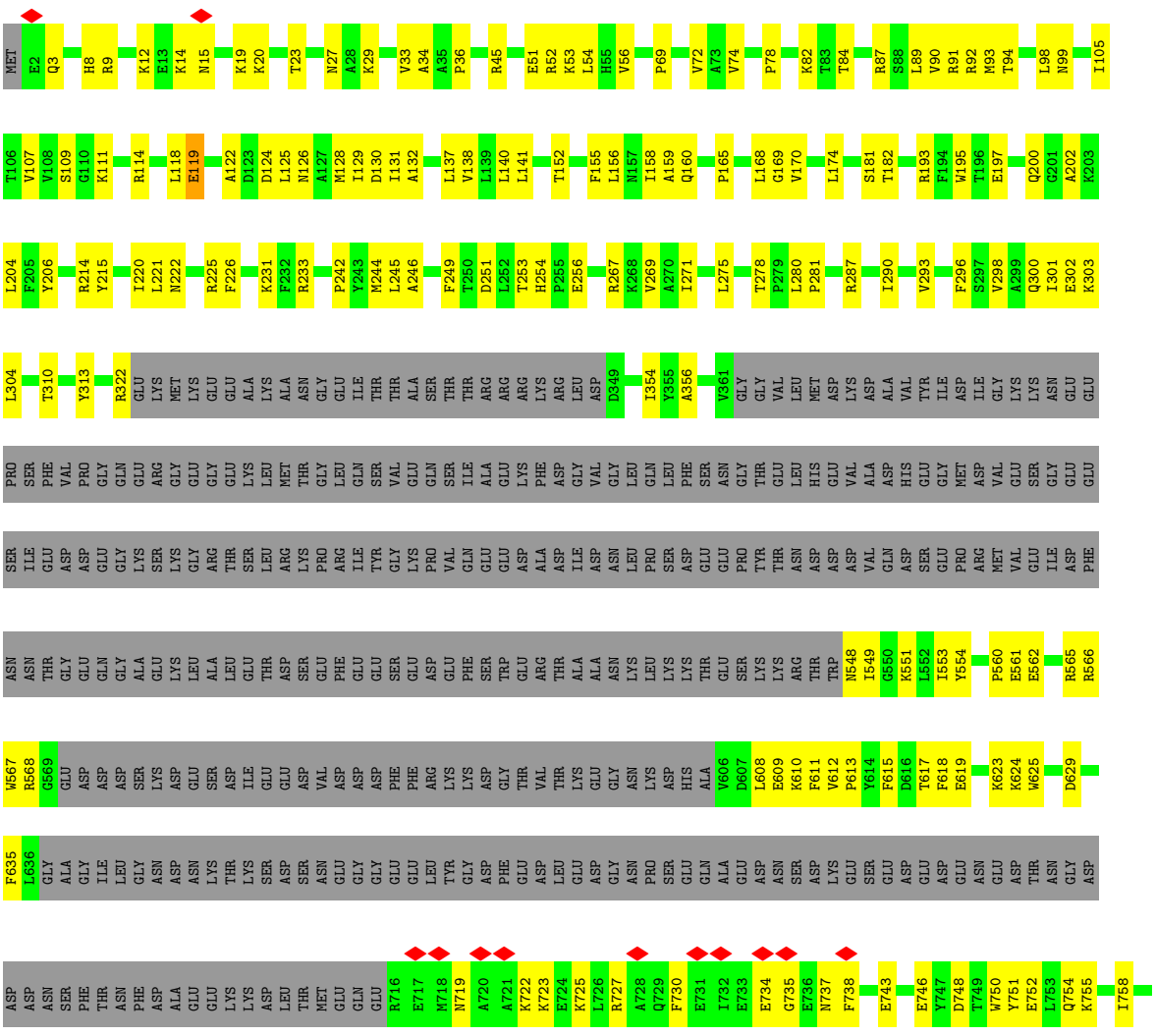
Chain CK:

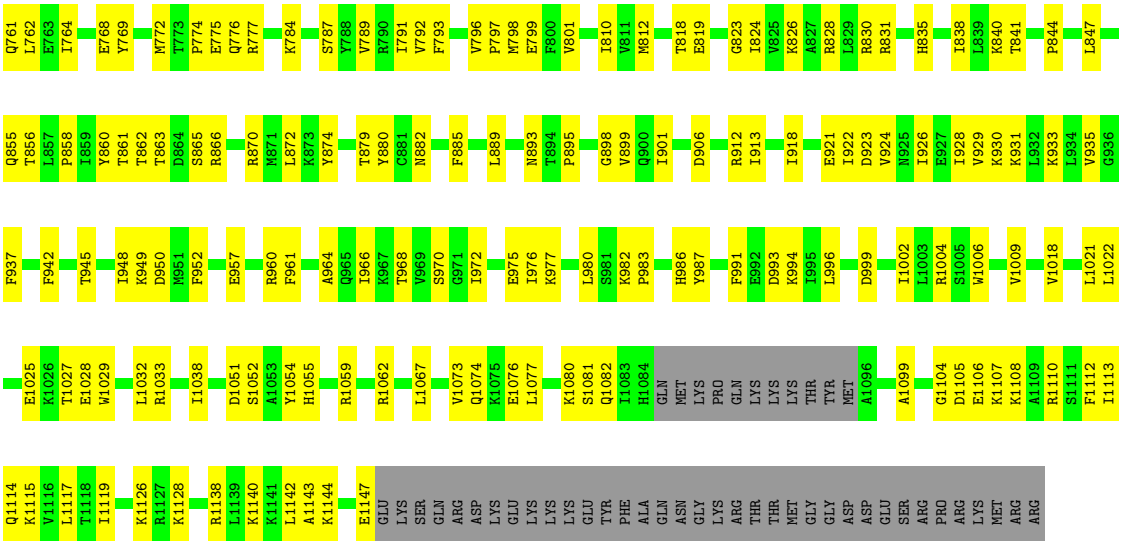




• Molecule 33: Ribosome biogenesis protein BMS1

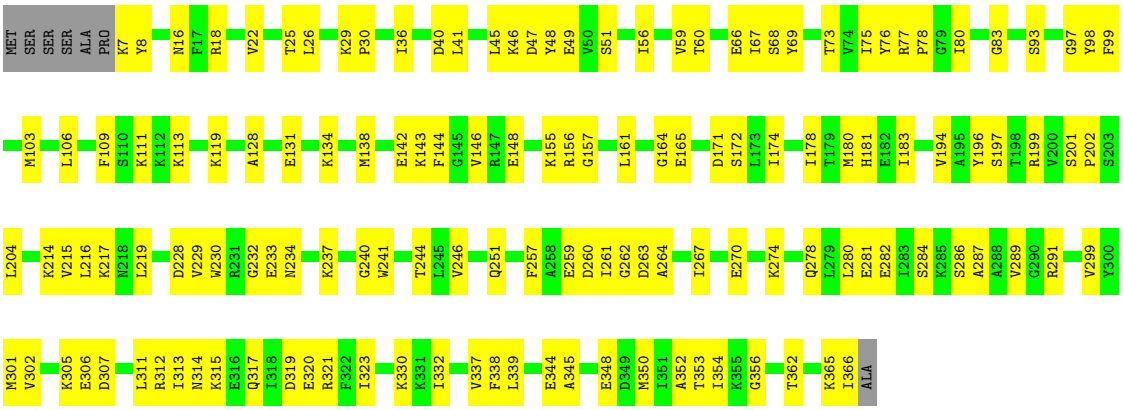
Chain CL:





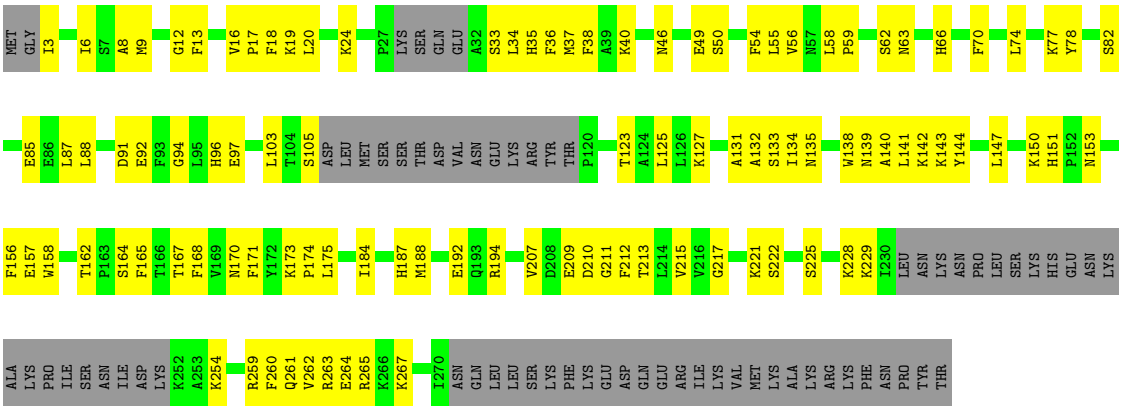
• Molecule 34: RNA 3'-terminal phosphate cyclase-like protein

Chain CM:



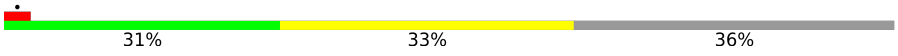
• Molecule 35: Ribosomal RNA-processing protein 7

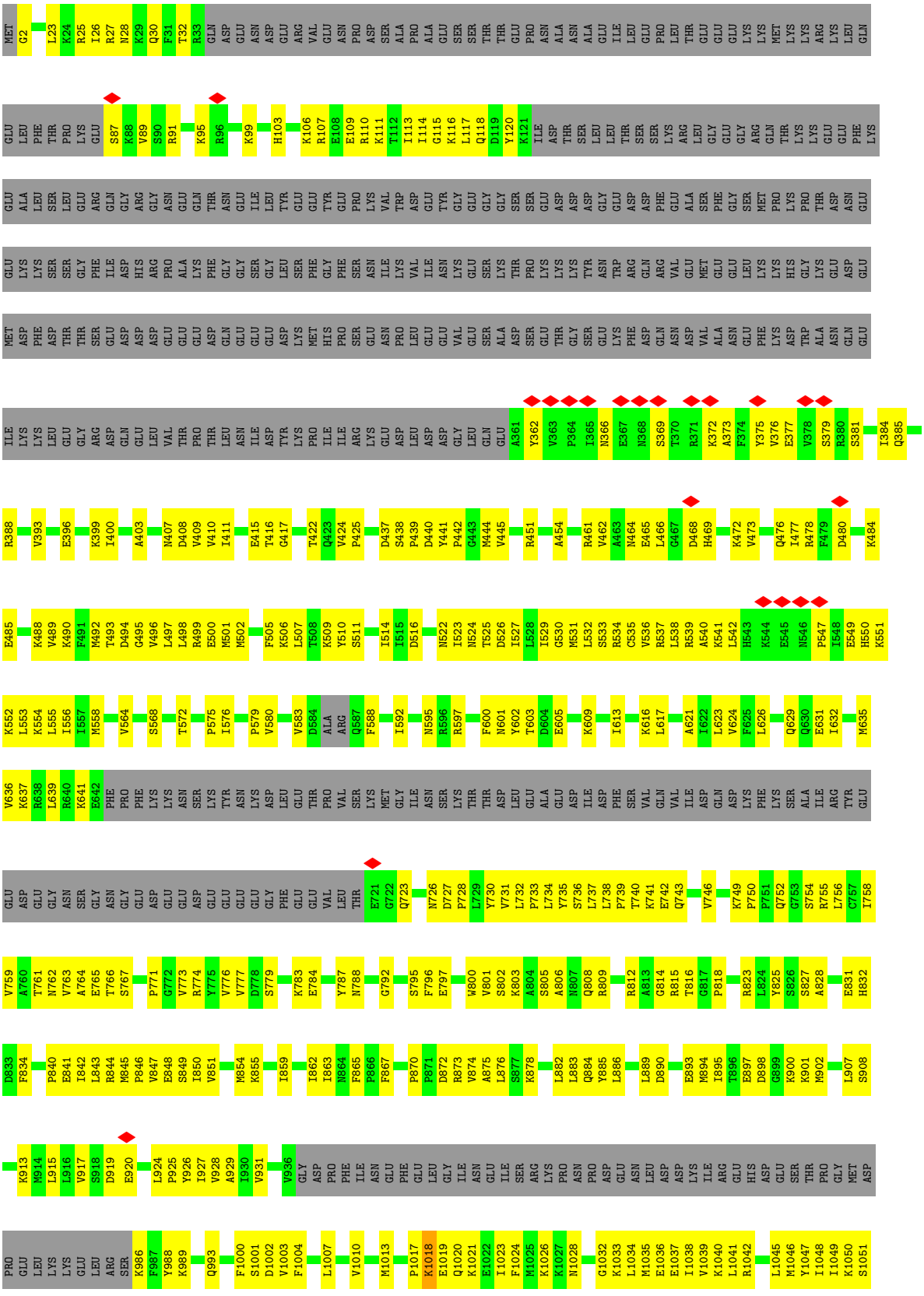
Chain CN:



• Molecule 36: Probable ATP-dependent RNA helicase DHR1

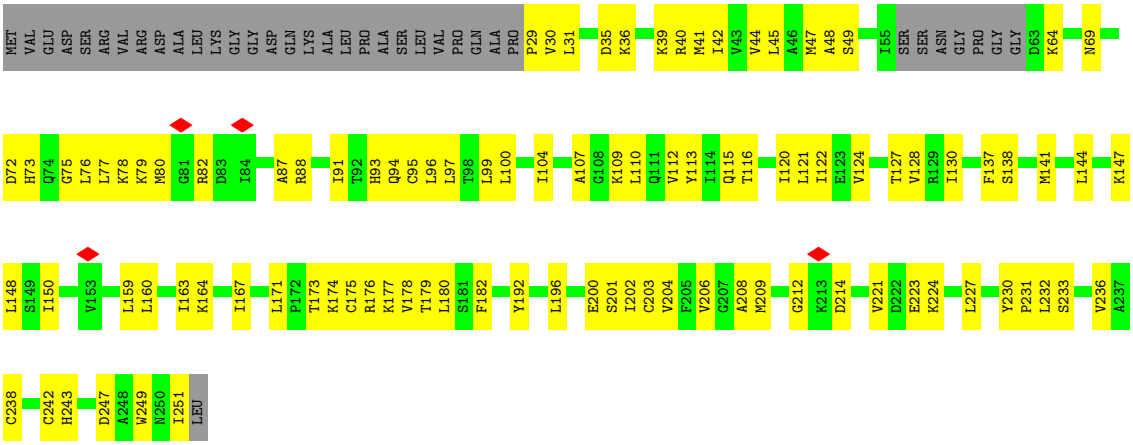
Chain JD:


31%
33%
36%


MET G2 L23 K24 R25 I26 R27 N28 K29 Q30 F31 T32 R33 GLN ASP GLU ASN ASP GLU ARG VAL GLU ASN PRO ASP SER ALA PRO ALA GLU SER SER THR THR GLU PRO ASN ALA ASN ALA GLU ILE LEU GLU PRO LEU THR GLU GLU GLU LYS LYS MET LYS LYS ARG LYS LEU GLN
GLU LEU PHE THR PRO LYS GLU S87 K88 V89 S90 R91 K95 R96 K99 H103 K106 R107 E108 E109 R110 K111 T112 I113 I114 G115 K116 L117 Q118 D119 Y120 K121 ILE ASP THR SER LEU LEU THR SER SER LYS ARG LEU GLY GLU GLY ARG GLN THR LYS LYS GLU GLU PHE LYS
GLU ALA LEU SER LEU GLU ARG GLN GLY ARG GLY ASN GLU GLN THR ASN GLU ILE LEU TYR GLU PRO LYS VAL TRP ASP GLU TYR GLY GLU GLY SER SER GLU ASP ASP GLY GLU ASP ASP PHE GLU ALA SER PHE GLY MET PRO LYS PRO THR GLU ASP ASN GLU
GLU LYS LYS SER SER GLY PHE ILE ASP HIS ARG PRO ALA LYS PHE GLY GLY SER GLY LEU SER PHE GLY PHE SER ASN ILE LYS VAL ILE ASN LYS GLU SER LYS THR PRO LYS LYS LYS TYR ASN TRP ARG GLN ARG VAL GLU MET GLU GLU LEU LYS LYS HIS GLY LYS GLU ASP GLU
MET ASP PHE ASP THR THR SER GLU ASP ASP GLU GLN GLU GLU GLU ASP LYS MET HIS PRO SER GLU ASN PRO LEU LEU GLU GLU VAL GLU VAL THR PRO THR GLU GLY SER GLU LYS PHE ASP GLN ASN ASP VAL ALA ASN GLU PHE LYS ASP TRP ALA ASN GLN GLU
ILE LYS LYS LEU GLU GLY ARG ASP GLN GLU LEU VAL THR PRO THR LEU ASN ILE ASP TYR LYS PRO ILE ILE ARG LYS GLU ASP LEU ASP ASP GLY LEU GLN GLU A361 Y362 V363 P364 I365 N366 E367 N368 S369 T370 R371 K372 A373 F374 Y375 V376 E377 V378 S379 R380 S381 I384 Q385
R388 V393 E396 K399 I400 A403 N407 D408 V409 V410 I411 E415 T416 G417 T422 Q423 V424 P425 D437 S438 P439 D440 Y441 P442 G443 M444 V445 R451 A454 R461 V462 A463 N464 E465 L466 G467 D468 H469 K472 V473 Q476 I477 R478 F479 D480 K484
E485 K488 V489 K490 F491 M492 T493 D494 G495 V496 L497 L498 R499 E500 M501 M502 F505 K506 L507 T508 K509 Y510 S511 I514 I515 D516 N522 I523 N524 T525 D526 I527 L528 I529 G530 M531 L532 S533 R534 C535 V536 R537 L538 R539 A540 K541 L542 H543 K544 E545 N546 P547 I548 E549 H550 K551
K552 L553 K554 L555 I556 I557 M558 V564 S568 T572 P575 I576 P579 V580 V583 D584 A585 R587 Q587 F588 I592 N595 R596 R597 F600 N601 Y602 T603 D604 E605 K609 I613 K616 L617 A621 I622 L623 V624 F625 L626 Q629 Q630 E631 I632 M635
V636 K637 R638 L639 R640 K641 E642 PHE PRO PHE LYS LYS ASN SER LYS TYR ASN LYS ASP LEU GLU THR PRO VAL SER LYS MET GLY ILE ASN SER LYS THR THR ASP LEU GLU ALA GLU ASP ILE ASP PHE SER VAL GLN VAL ILE ASP GLN ASP LYS PHE LYS SER ALA ILE ARG TYR GLU
GLU ASP GLU GLY ASN SER GLY GLU ASP GLU GLU ASP GLU GLU GLU GLY PHE GLU GLU VAL LEU THR E721 G722 Q723 N726 D727 P728 L729 Y730 V731 L732 P733 L734 Y735 S736 L737 L738 P739 T740 K741 E742 Q743 V746 K749 P750 P751 Q752 G753 S754 R755 L756 C757 I758
V759 A760 T761 N762 V763 A764 E765 T766 S767 P771 G772 V773 R774 Y775 V776 V777 D778 S779 K783 E784 Y787 N788 G792 S795 F796 E797 W800 V801 S802 K803 A804 S805 A806 N807 Q808 R809 R812 A813 G814 R815 T816 G817 P818 R823 L824 Y825 S826 S827 A828 E831 H832
D833 F834 P840 E841 I842 L843 R844 M845 P846 V847 E848 S849 I850 V851 M854 K855 I859 I862 I863 N864 F865 P866 F867 P870 P871 D872 R873 V874 A875 L876 S877 K878 L882 L883 Q884 Y885 L886 L889 D890 E893 M894 I895 T896 E897 D898 G899 K900 K901 M902 L907 S908
K913 M914 L915 L916 V917 S918 D919 E920 L924 P925 Y926 I927 V928 A929 I930 V931 V936 GLY ASP PRO PHE ILE ASN GLU PHE GLU LEU GLY ILE ASN GLU ILE SER ARG LYS PRO ASN PRO ASP GLU ASN LEU ASP ASP LYS ILE ARG GLU HIS ASP GLU SER THR PRO GLY MET ASP
PRO GLU LEU LYS LYS GLU LEU ARG SER K986 F987 Y988 K989 Q993 F1000 S1001 D1002 V1003 F1004 L1007 V1010 M1013 P1017 K1018 E1019 Q1020 K1021 E1022 I1023 F1024 H1025 K1026 K1027 N1028 G1032 K1033 L1034 M1035 E1036 E1037 I1038 V1039 K1040 L1041 R1042 L1045 M1046 Y1047 I1048 I1049 K1050 S1051

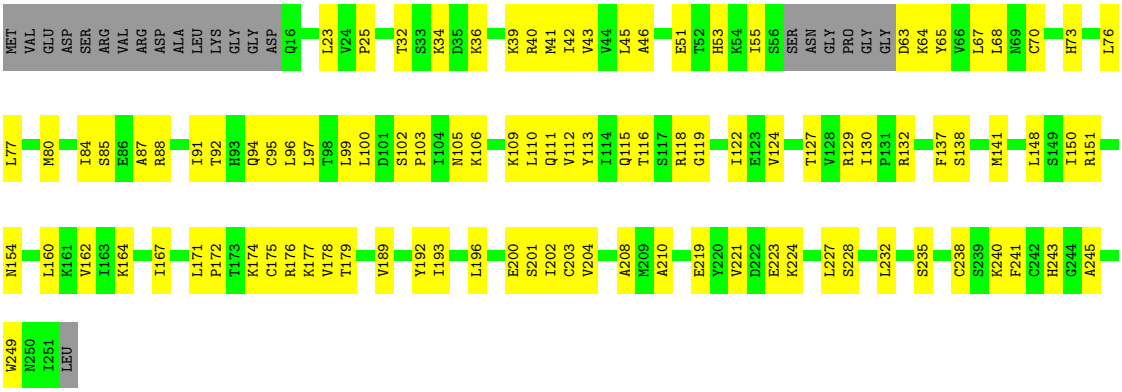
• Molecule 37: Ribosomal RNA small subunit methyltransferase NEP1

Chain JF:



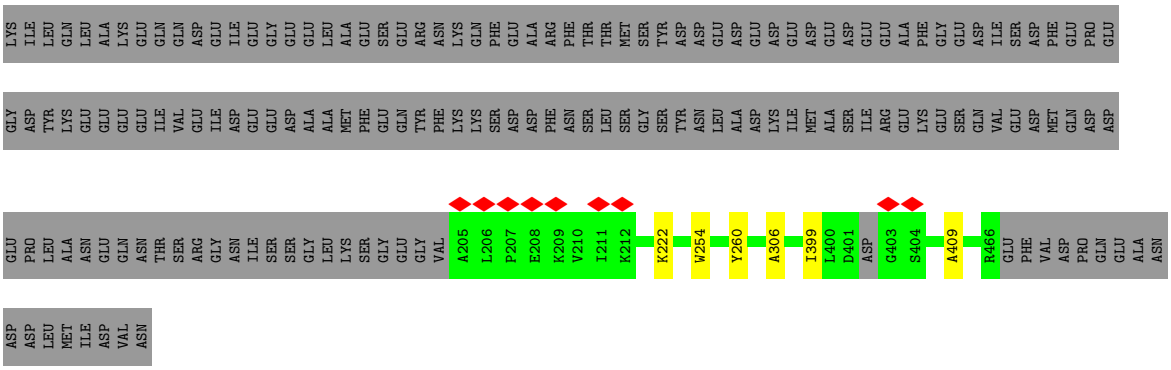
• Molecule 37: Ribosomal RNA small subunit methyltransferase NEP1

Chain JG:



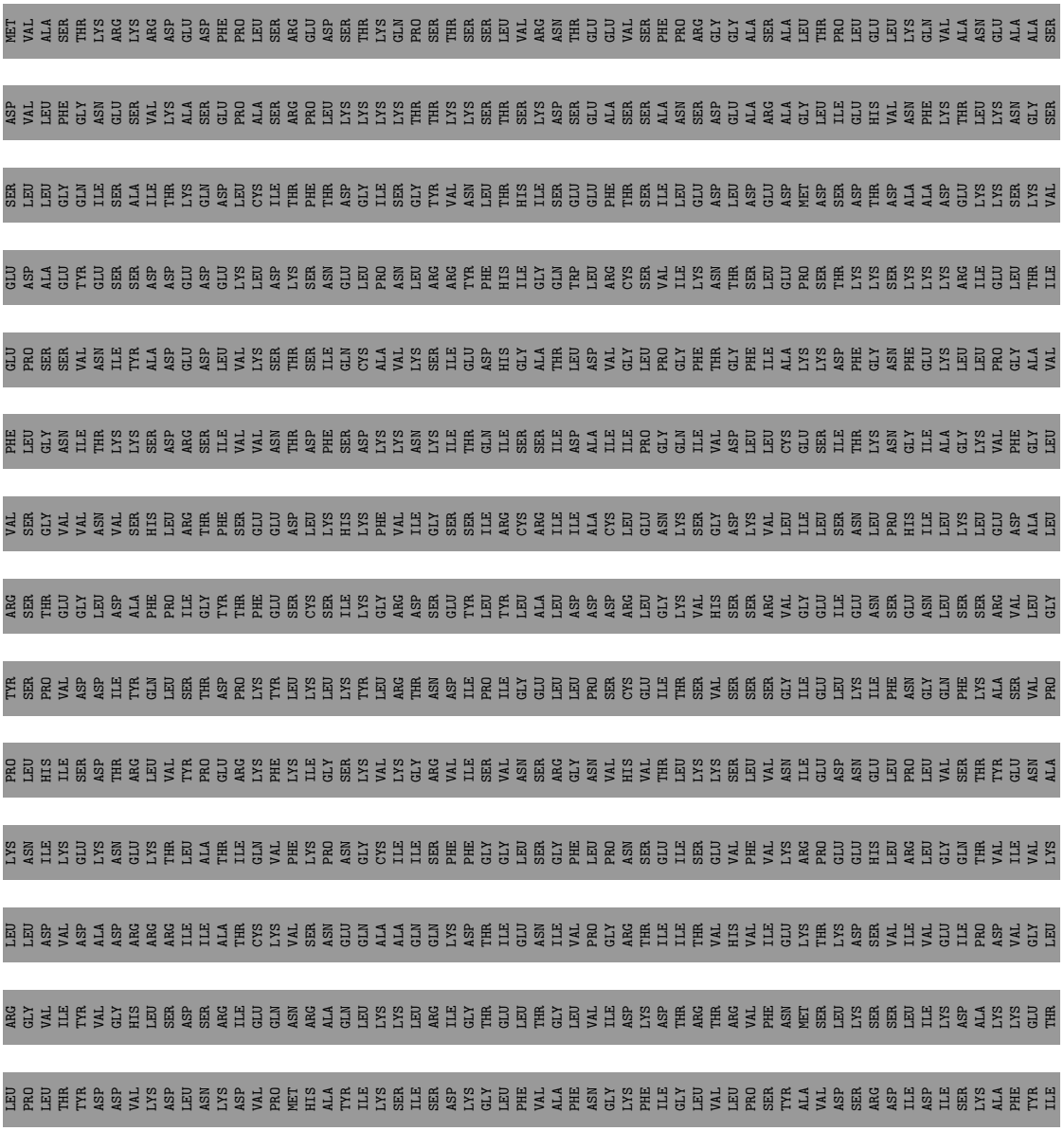
• Molecule 38: Essential nuclear protein 1

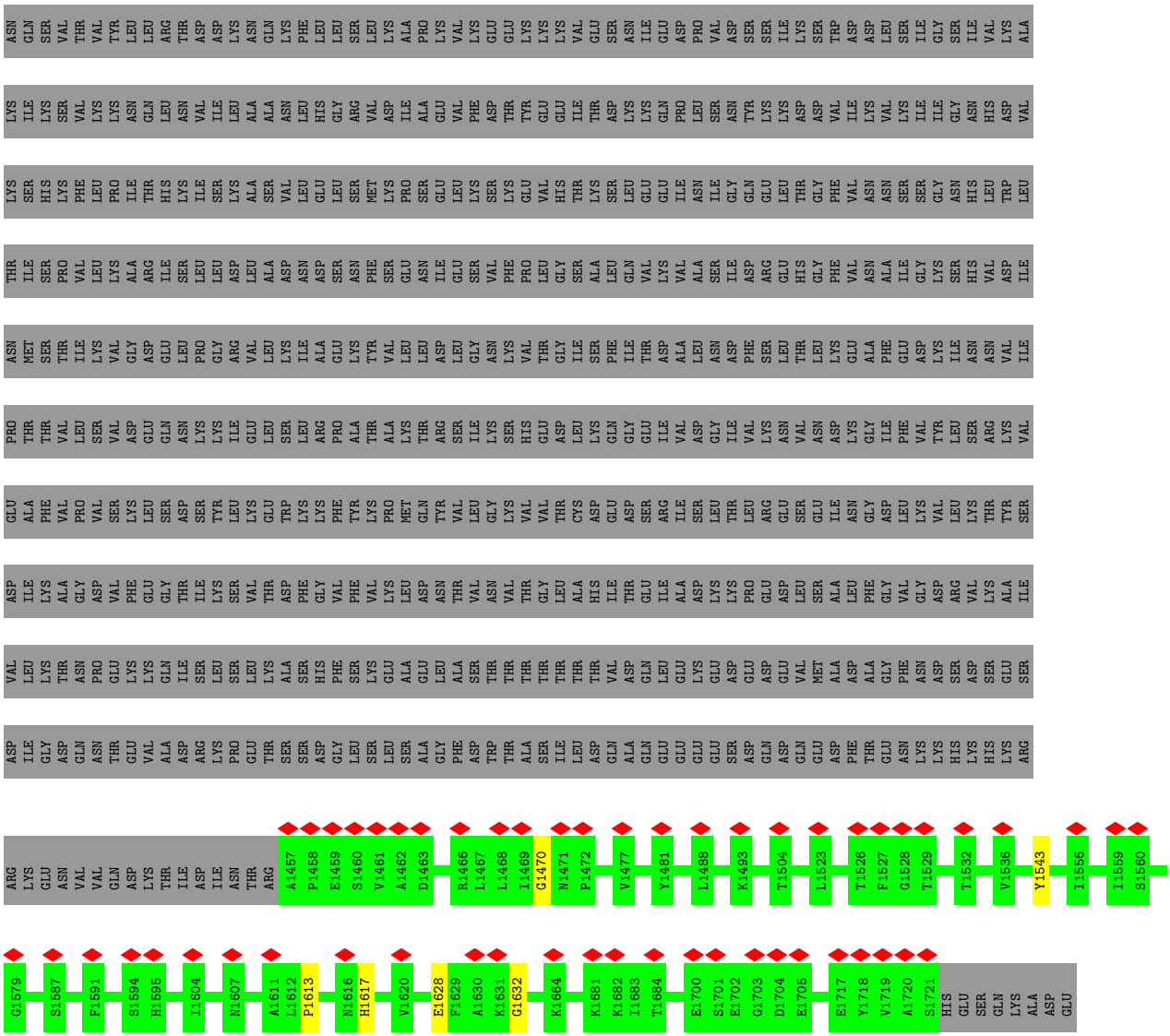
Chain JH:



• Molecule 39: rRNA biogenesis protein RRP5

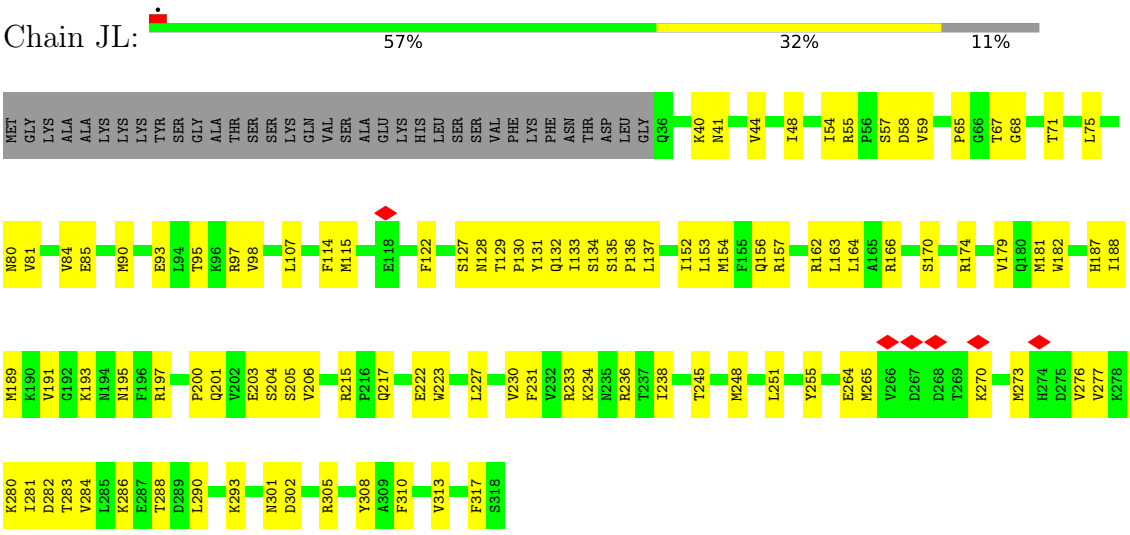
Chain JI:





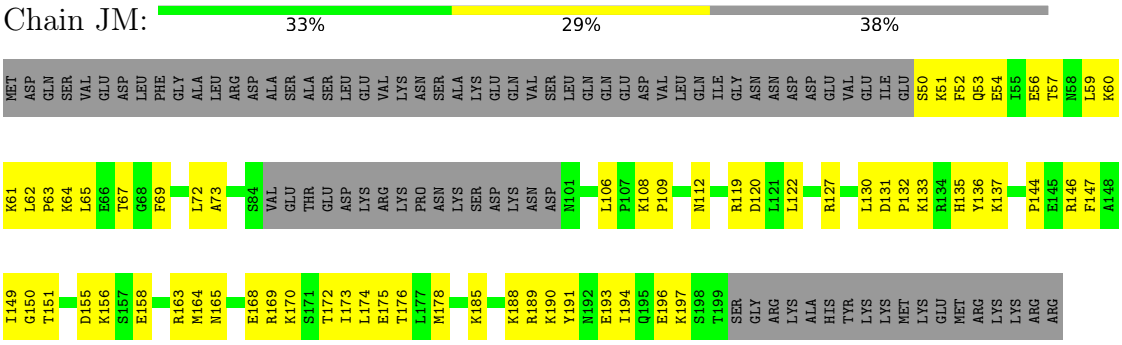
• Molecule 40: Dimethyladenosine transferase

Chain JL:



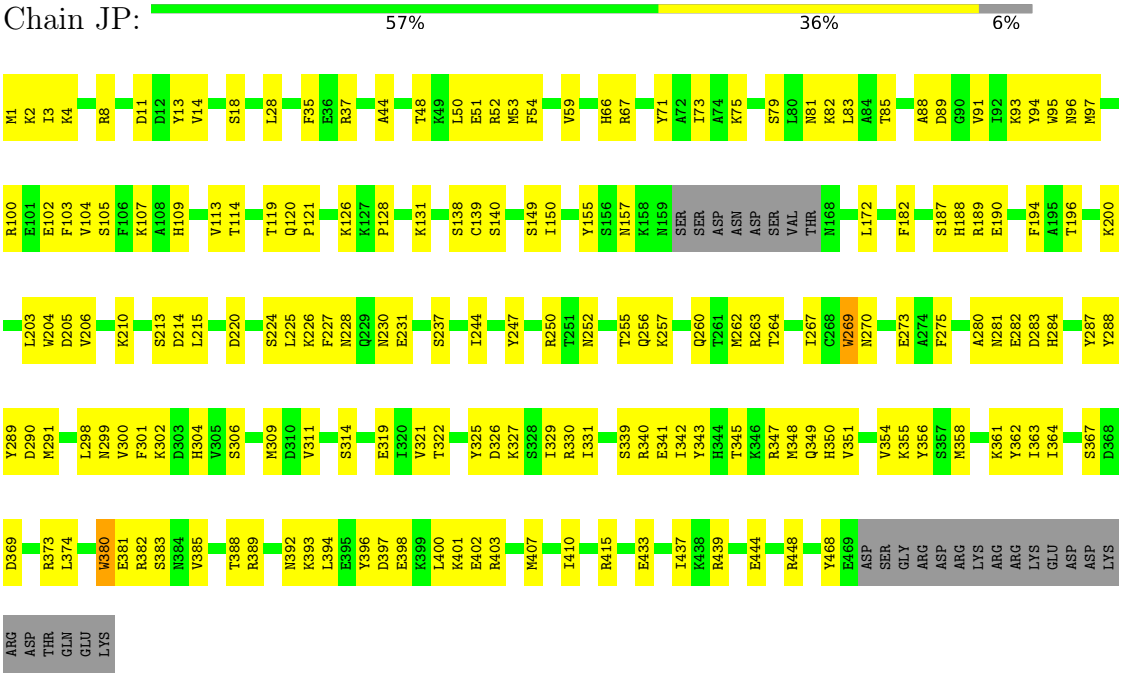
• Molecule 41: rRNA-processing protein FCF2

Chain JM:



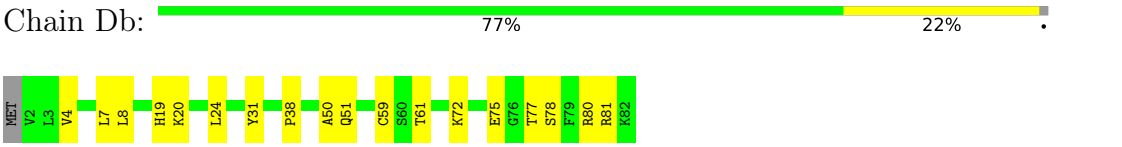
• Molecule 42: Protein SOF1

Chain JP:



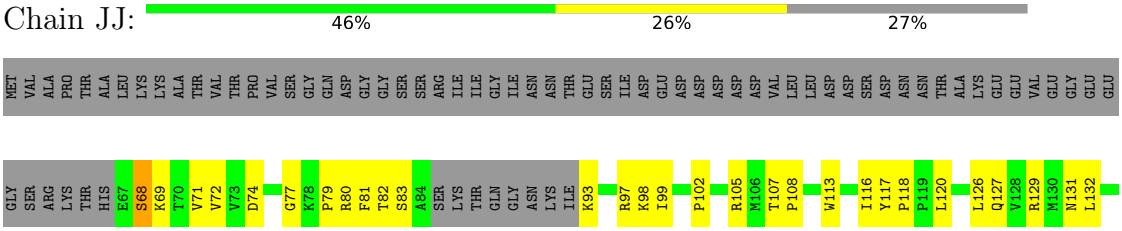
• Molecule 43: 40S ribosomal protein S27-A

Chain Db:



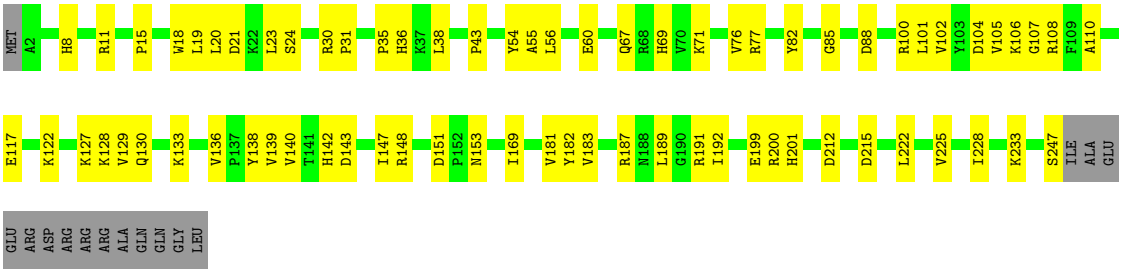
• Molecule 44: Pre-rRNA-processing protein PNO1

Chain JJ:



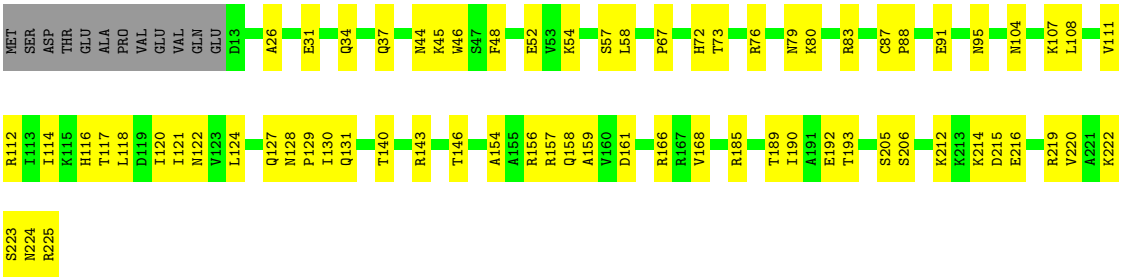
• Molecule 45: 40S ribosomal protein S4-A

Chain DE:



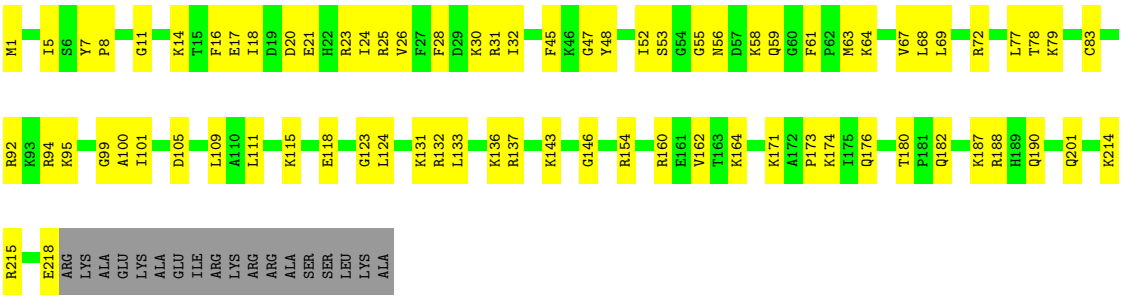
• Molecule 46: 40S ribosomal protein S5

Chain DF:



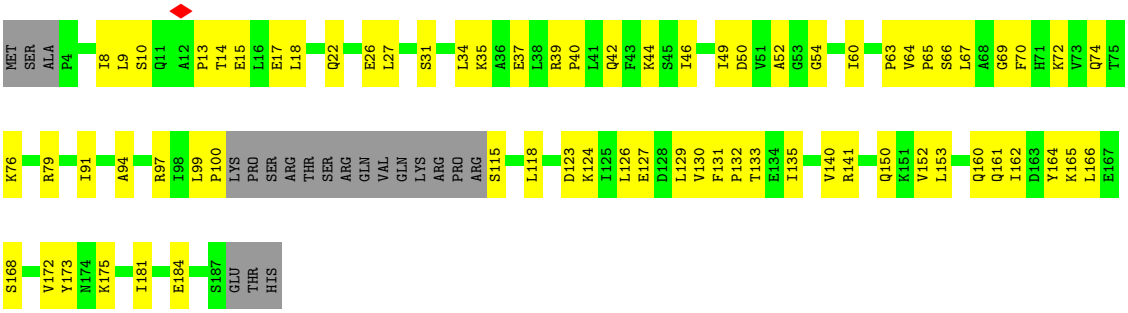
• Molecule 47: 40S ribosomal protein S6-A

Chain DG:



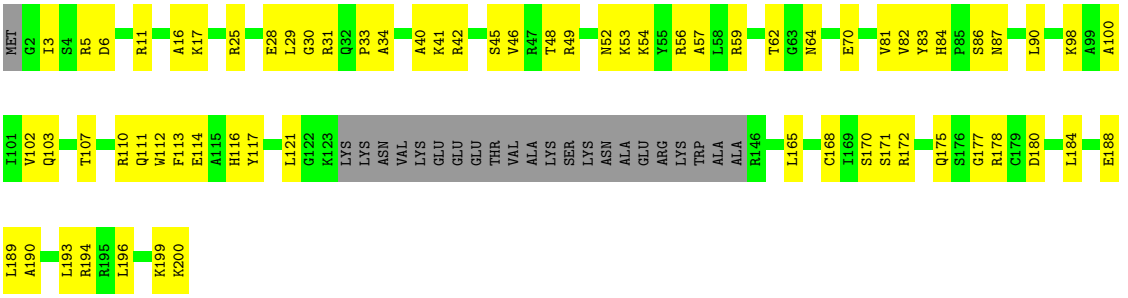
• Molecule 48: 40S ribosomal protein S7-A

Chain DH:



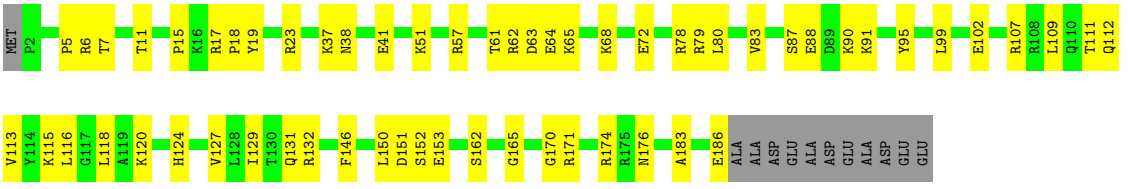
• Molecule 49: 40S ribosomal protein S8-A

Chain DI:



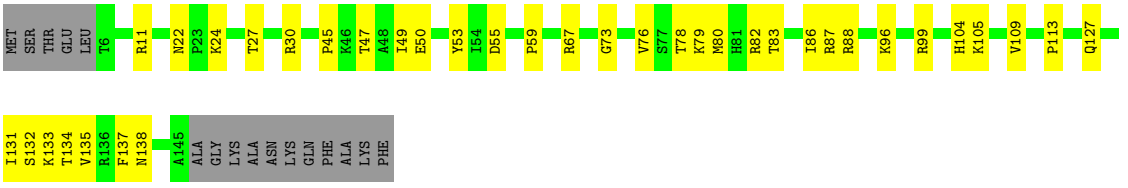
• Molecule 50: 40S ribosomal protein S9-A

Chain DJ:



• Molecule 51: 40S ribosomal protein S11-A

Chain DL:

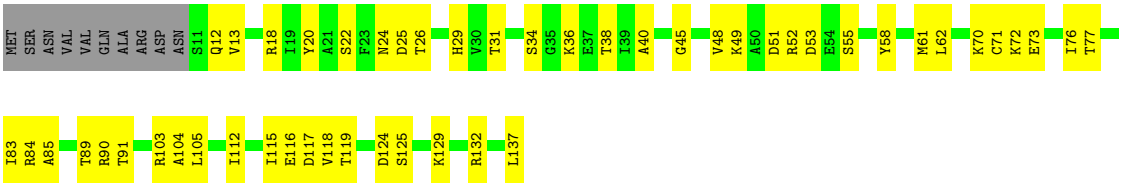


• Molecule 52: 40S ribosomal protein S13

Chain DN:

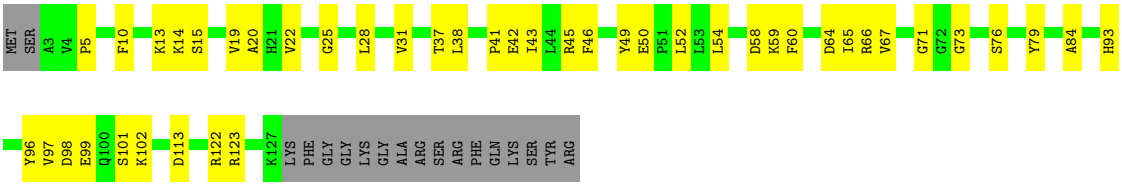
• Molecule 53: 40S ribosomal protein S14-A

Chain DO:



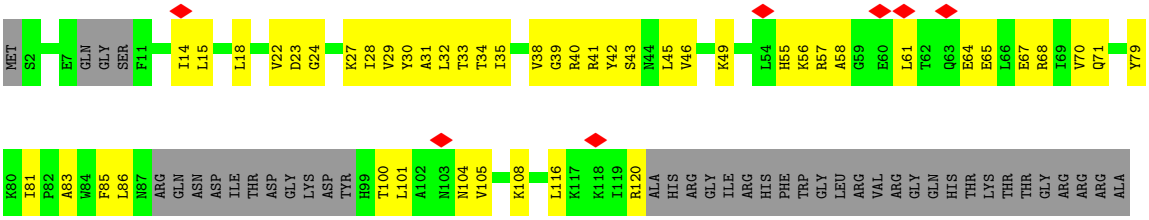
• Molecule 54: 40S ribosomal protein S16-A

Chain DQ:



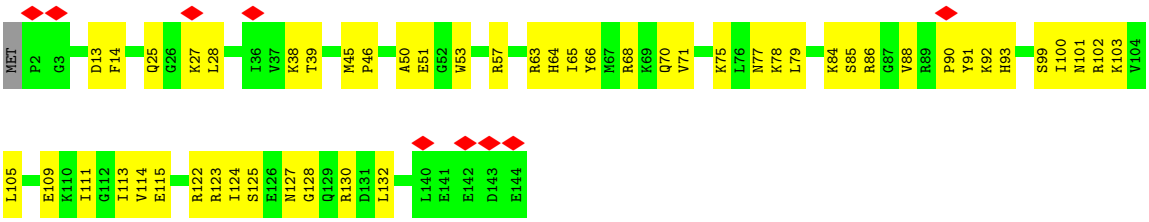
• Molecule 55: 40S ribosomal protein S18-A

Chain DS:



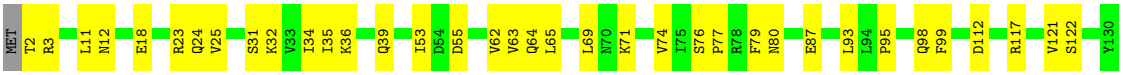
• Molecule 56: 40S ribosomal protein S19-A

Chain DT:



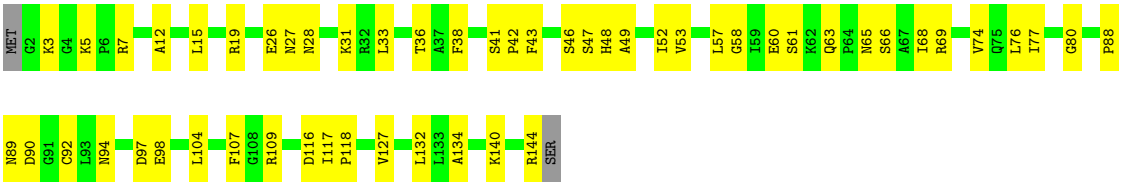
• Molecule 57: 40S ribosomal protein S22-A

Chain DW:



• Molecule 58: 40S ribosomal protein S23-A

Chain DX:

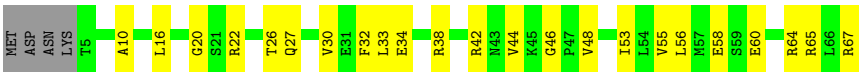


• Molecule 59: 40S ribosomal protein S24-A

Chain DY:

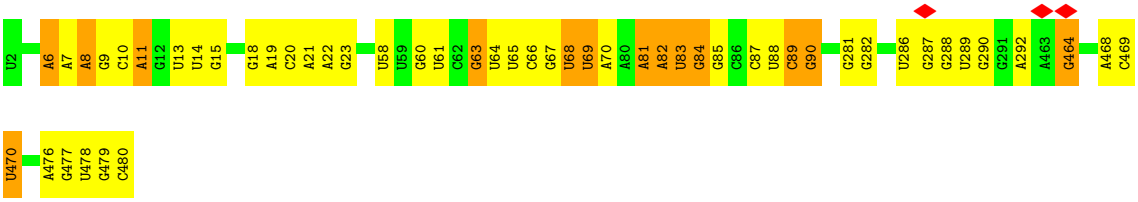
• Molecule 60: 40S ribosomal protein S28-A

Chain Dc:



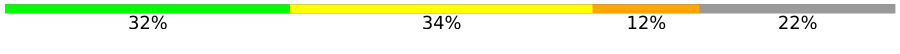
• Molecule 61: 5'ETS RNA

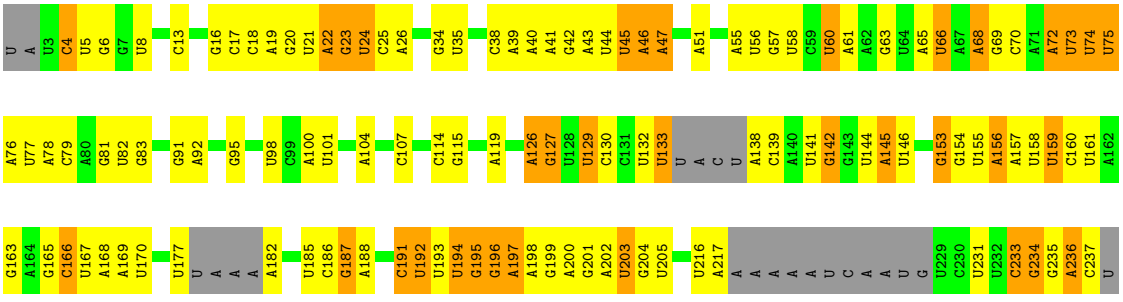
Chain D2:

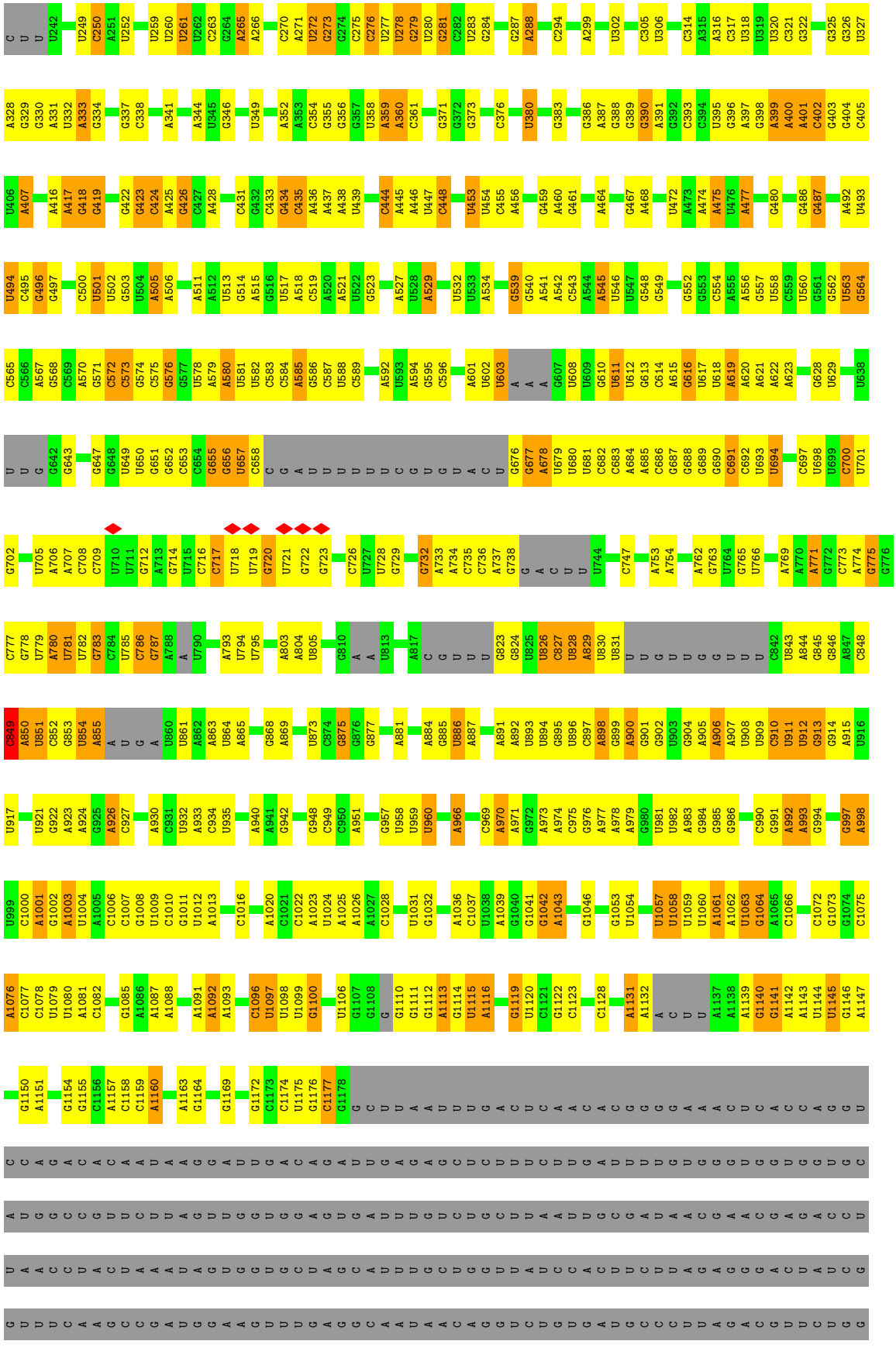


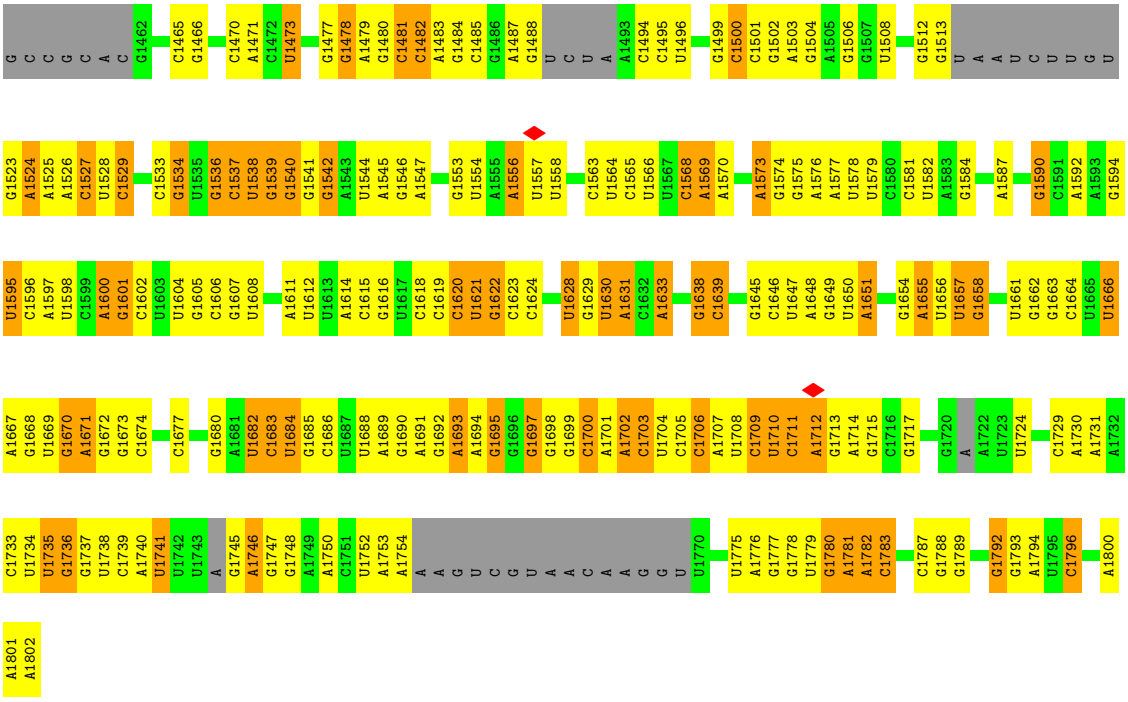
• Molecule 62: 18S rRNA

Chain D3:



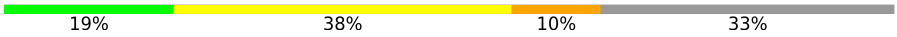


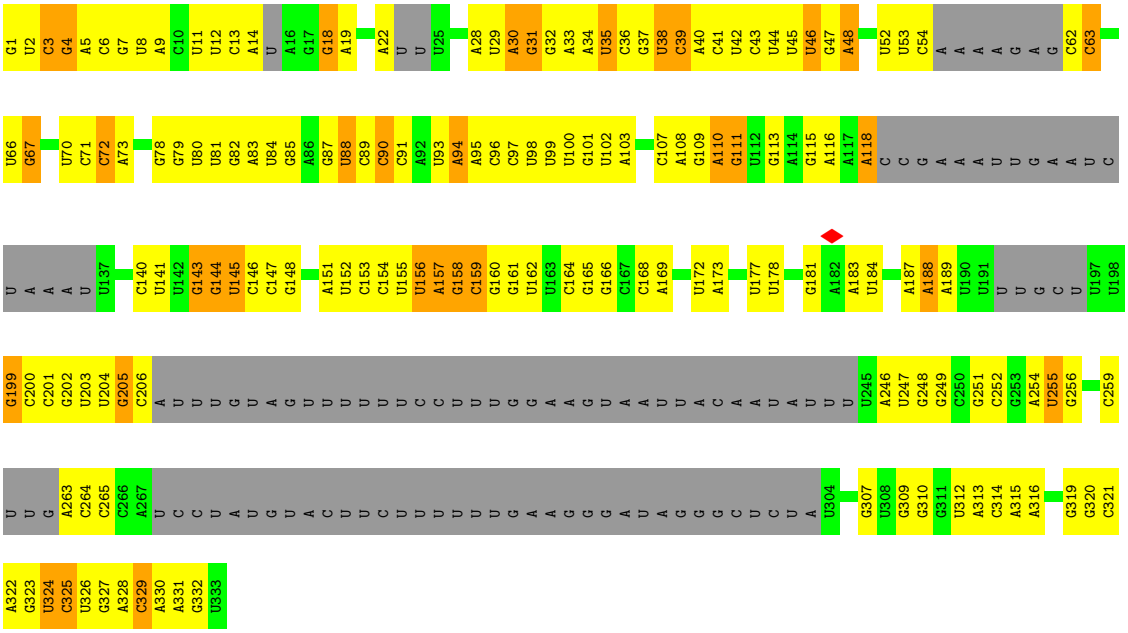




• Molecule 63: U3 snoRNA

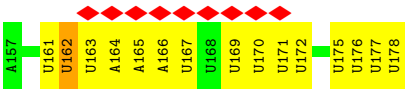
Chain D4:





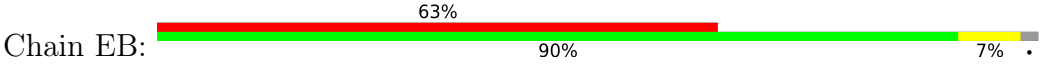
• Molecule 64: RNA

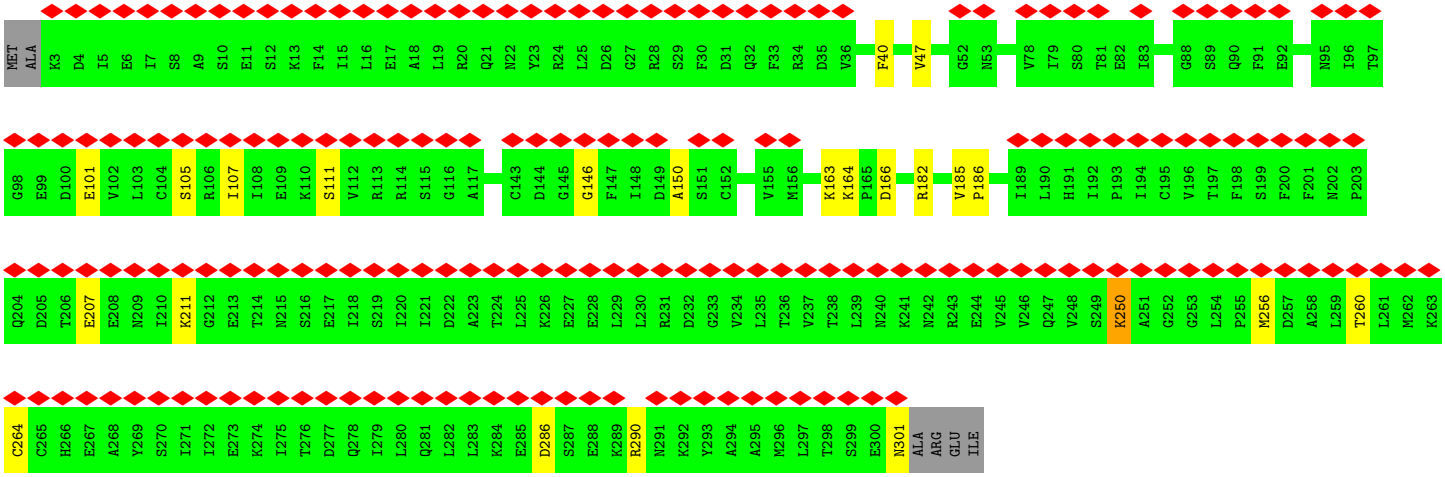
Chain EA:



• Molecule 65: Exosome complex component RRP45

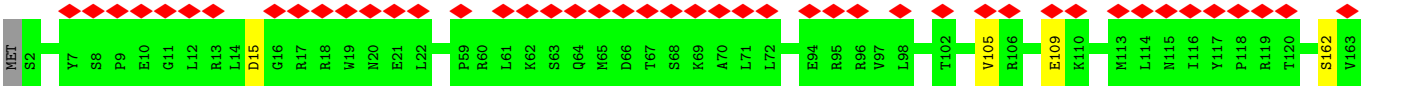
Chain EB:

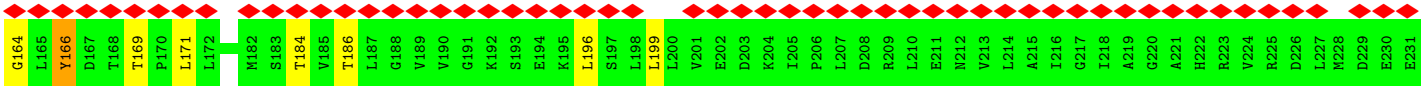


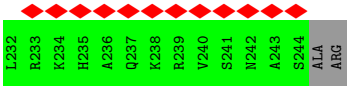


• Molecule 66: Exosome complex component SKI6

Chain EC:

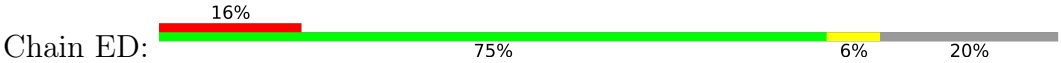


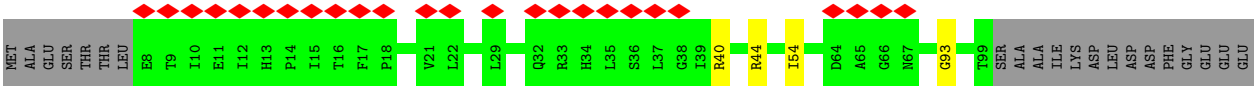


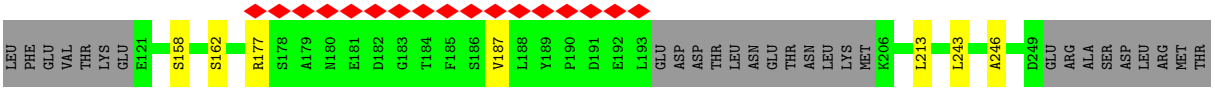


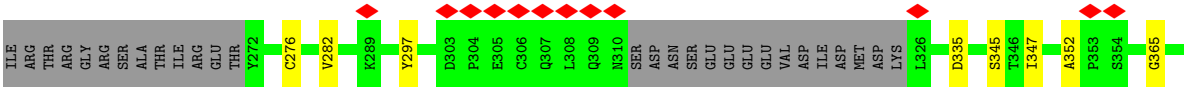
• Molecule 67: Exosome complex component RRP43

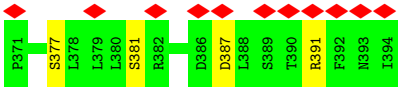
Chain ED:





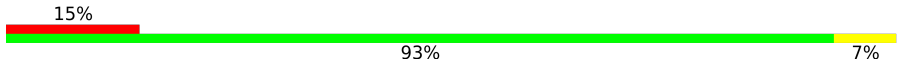


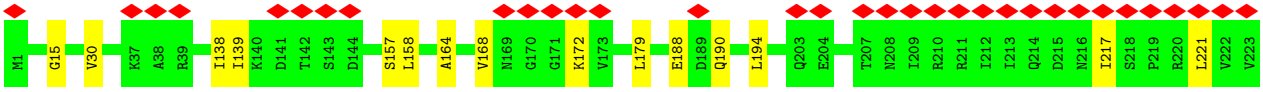




• Molecule 68: Exosome complex component RRP46

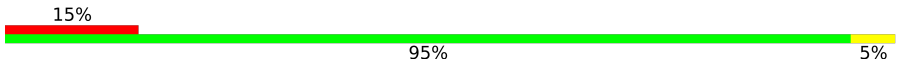
Chain EE:

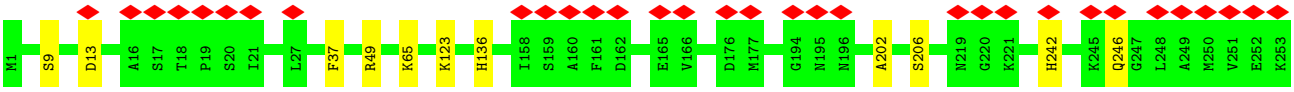


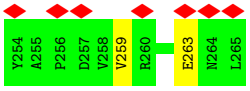


• Molecule 69: Exosome complex component RRP42

Chain EF:

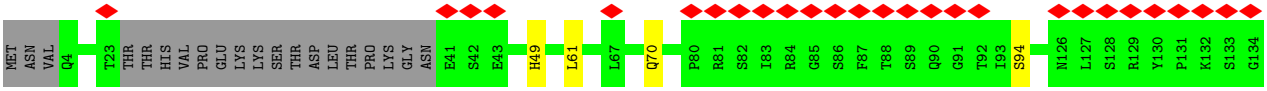






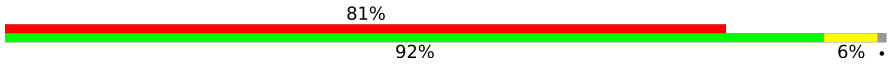
• Molecule 70: Exosome complex component MTR3

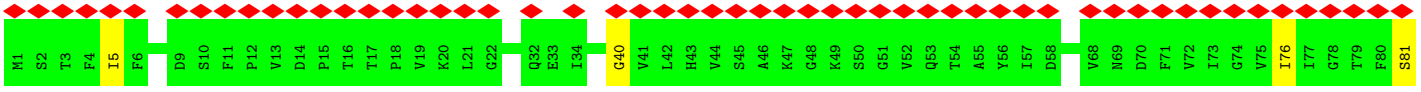
Chain EG:

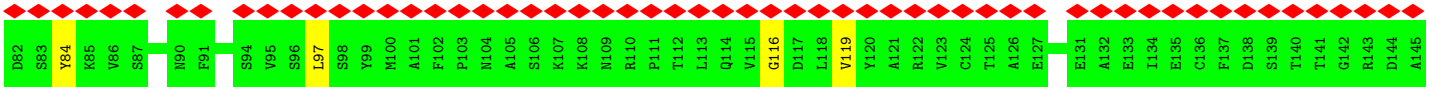


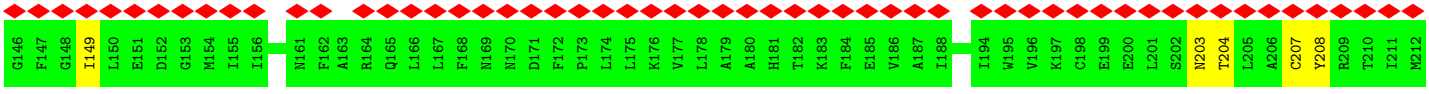
• Molecule 71: Exosome complex component RRP40

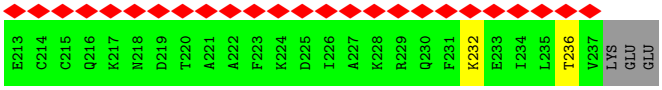
Chain EH:





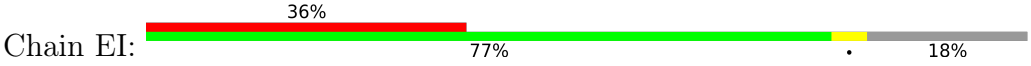


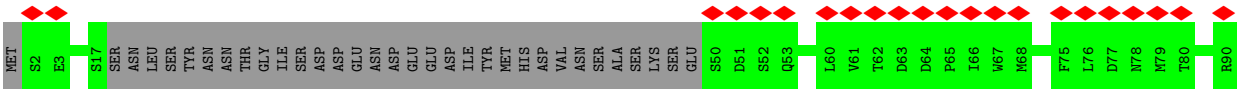


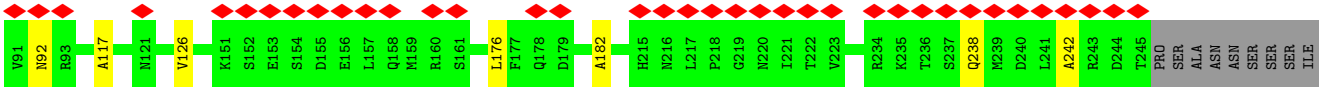


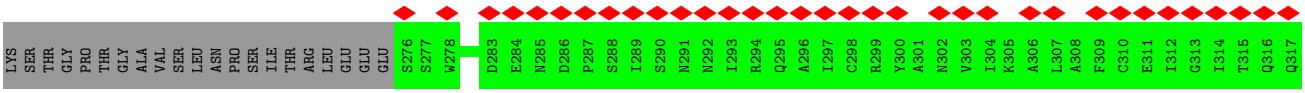
• Molecule 72: Exosome complex component RRP4

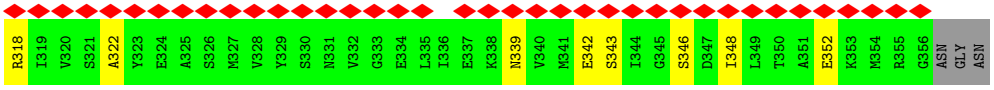
Chain EI:





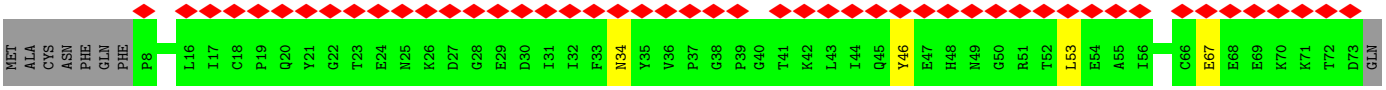


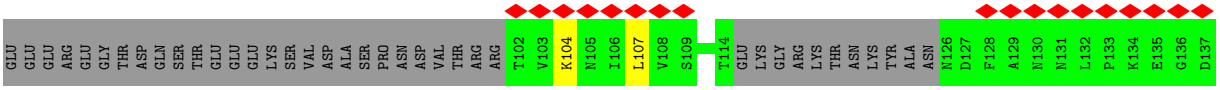


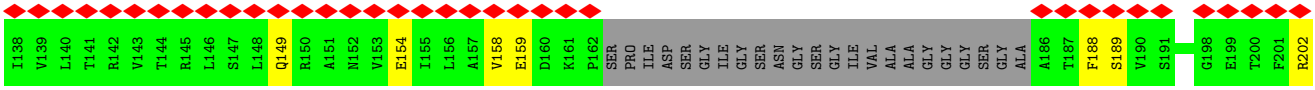


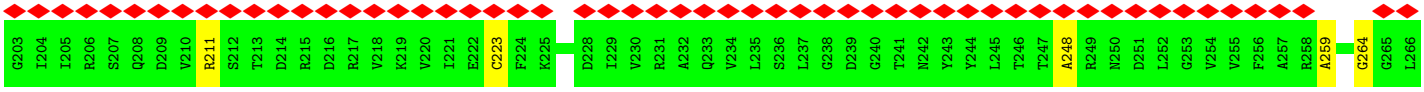
• Molecule 73: Exosome complex component CSL4

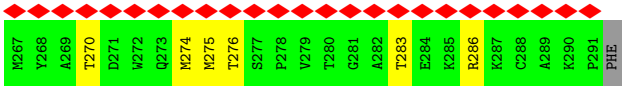
Chain EJ:





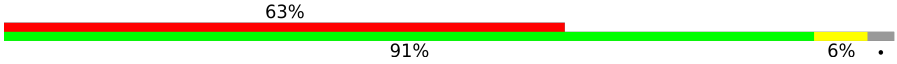


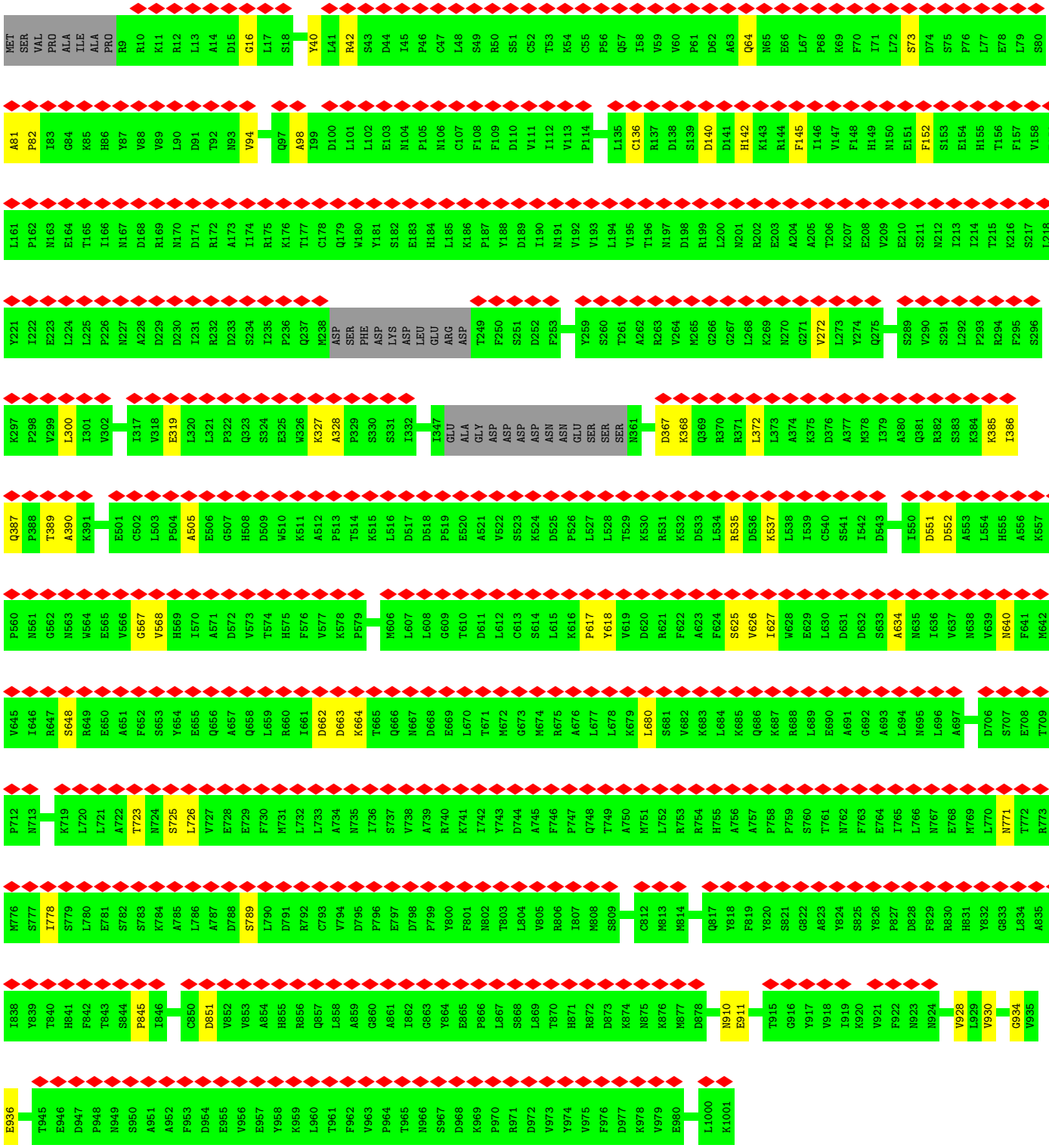




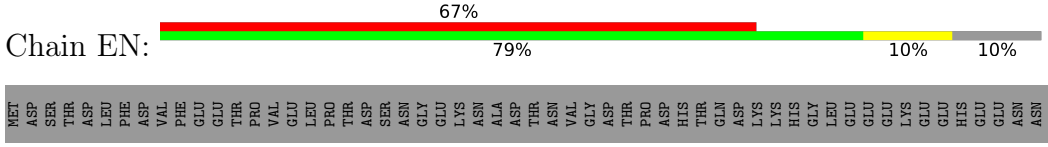
• Molecule 74: Exosome complex exonuclease DIS3

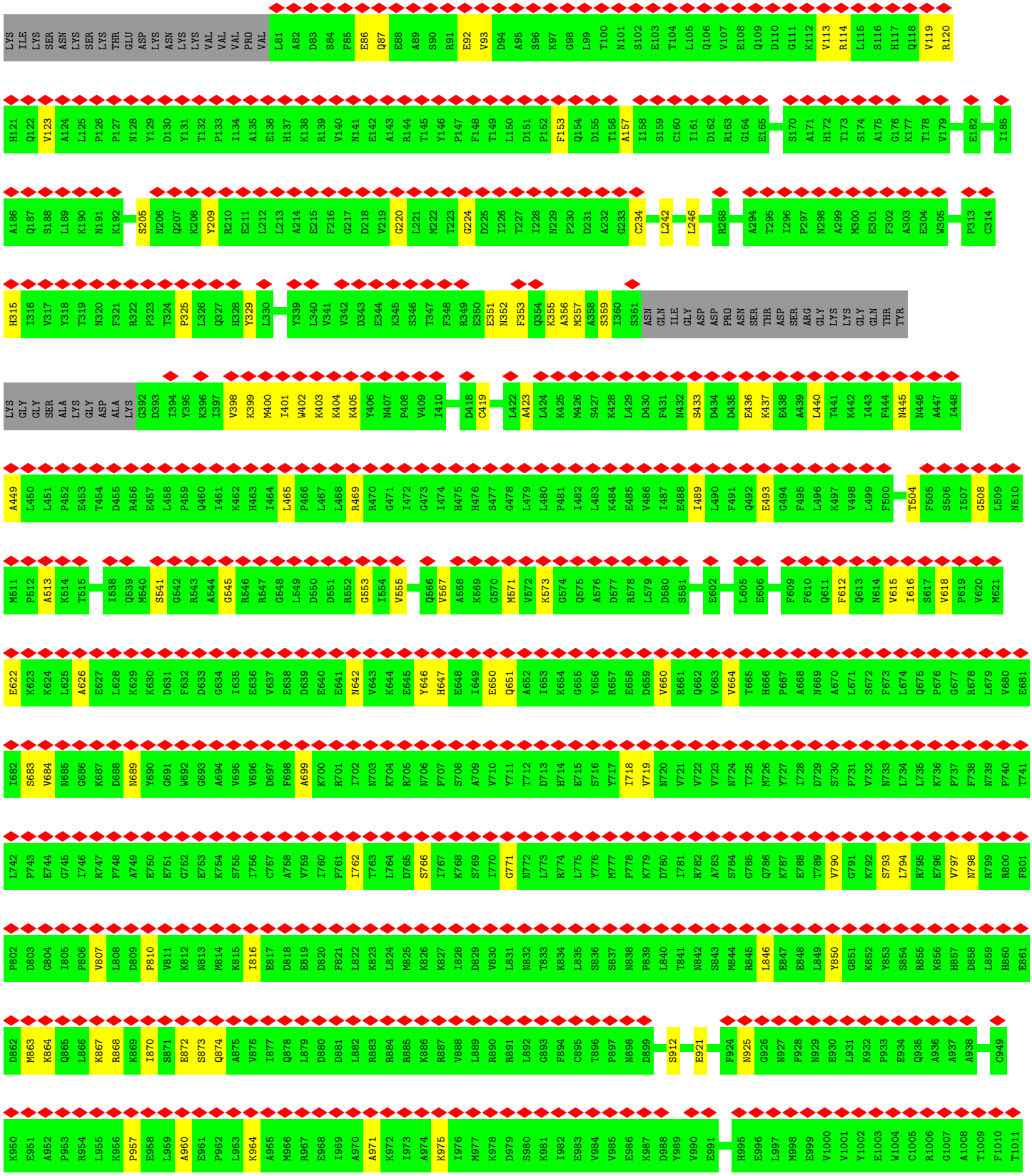
Chain EK:

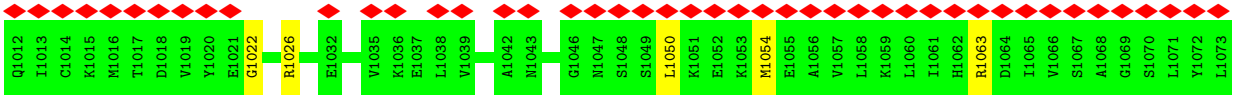




• Molecule 75: ATP-dependent RNA helicase DOB1




LYS ILE LYS SER ASN LYS SER LYS THR GLU ASP LYS ASN LYS LYS VAL VAL VAL PRO VAL
L81 A82 D83 S84 F85 E86 Q87 E88 A89 S90 R91 E92 V93 D94 A95 S96 K97 G98 L99 T100 N101 S102 E103 T104 L105 Q106 V107 E108 Q109 D110 G111 K112 V113 R114 L115 S116 H117 Q118 V119 R120
H121 Q122 V123 A124 L125 P126 P127 N128 Y129 D130 Y131 T132 P133 I134 A135 E136 H137 K138 R139 V140 N141 E142 A143 R144 T145 Y146 P147 F148 T149 L150 D151 P152 F153 Q154 D155 T156 A157 I158 S159 C160 I161 D162 R163 G164 E165 S170 A171 H172 T173 S174 A175 G176 K177 T178 V179 E182 I185
A186 Q187 S188 L189 K190 N191 K192 S205 N206 Q207 K208 Y209 R210 E211 L212 L213 A214 E215 F216 G217 D218 V219 G220 L221 M222 T223 G224 D225 I226 T227 I228 N229 P230 D231 A232 G233 C234 L242 L246 R268 A294 T295 I296 P297 N298 A299 M300 E301 F302 A303 E304 W305 P313 C314
H315 I316 V317 Y318 T319 N320 F321 R322 P323 T324 P325 L326 Q327 H328 Y329 L330 Y339 L340 V341 V342 D343 E344 K345 S346 T347 F348 R349 E350 E351 N352 F353 Q354 K355 A356 M357 A358 S359 I360 S361 ASN GLN ILE GLY ASP ASP PRO ASN SER THR ASP SER ARG GLY LYS LYS GLY GLN THR TYR
LYS GLY GLY SER ALA LYS GLY ASP ALA LYS G392 D393 I394 Y395 K396 I397 V398 K399 M400 I401 W402 K403 K404 K405 Y406 N407 P408 V409 I410 D418 C419 L422 A423 L424 K425 M426 S427 K428 L429 D430 F431 N432 S433 D434 D435 E436 K437 E438 A439 L440 T441 K442 I443 F444 N445 N446 A447 I448
A449 L450 L451 P452 E453 T454 D455 R456 E457 L458 P459 Q460 I461 K462 H463 I464 L465 P466 L467 L468 R469 R470 G471 I472 G473 I474 H475 H476 S477 G478 L479 L480 P481 I482 L483 K484 E485 V486 I487 E488 I489 L490 F491 Q492 E493 G494 F495 L496 K497 V498 L499 F500 T504 F505 S506 I507 G508 L509 N510
M511 P512 A513 K514 T515 I538 Q539 M540 S541 G542 R543 A544 G545 R546 R547 G548 L549 D550 D551 R552 G553 I554 V555 Q566 V567 A568 K569 G570 M571 V572 K573 G574 Q575 A576 D577 R578 L579 D580 S581 E602 L605 E606 F609 F610 G611 F612 Q613 N614 V615 I616 S617 V618 P619 V620 M621
E622 K623 K624 L625 A626 E627 L628 K629 K630 D631 F632 D633 G634 I635 E636 V637 E638 D639 E640 E641 N642 V643 K644 E645 Y646 H647 E648 I649 E650 Q651 A652 I653 K654 G655 Y656 R657 E658 D659 V660 R661 Q662 V663 V664 T665 H666 P667 A668 N669 A670 L671 S672 F673 L674 Q675 P676 G677 R678 L679 V680 E681
I682 S683 V684 N685 G686 K687 D688 N689 Y690 G691 W692 G693 A694 V695 V696 D697 F698 A699 K700 R701 I702 N703 K704 R705 N706 P707 S708 A709 V710 Y711 T712 D713 H714 E715 S716 Y717 I718 V719 N720 V721 V722 V723 N724 T725 M726 Y727 I728 D729 S730 P731 V732 N733 L734 L735 K736 P737 F738 N739 P740 T741
L742 P743 E744 G745 I746 R747 P748 A749 E750 E751 G752 E753 K754 S755 I756 C757 A758 V759 I760 P761 I762 T763 L764 D765 S766 I767 K768 S769 I770 G771 N772 L773 R774 L775 Y776 M777 P778 K779 D780 I781 R782 A783 S784 G785 Q786 K787 E788 T789 V790 G791 K792 S793 L794 R795 E796 V797 N798 R799 R800 F801
P802 D803 G804 I805 P806 V807 L808 D809 P810 V811 K812 N813 M814 K815 I816 E817 D818 E819 D820 F821 L822 K823 L824 M825 K826 K827 I828 D829 V830 L831 N832 T833 K834 L835 S836 S837 N838 P839 L840 T841 N842 S843 M844 R845 L846 E847 E848 L849 Y850 G851 K852 Y853 S854 R855 K856 H857 D858 L859 H860 E861
D862 M863 K864 Q865 L866 K867 R868 K869 I870 S871 E872 S873 Q874 A875 V876 I877 Q878 L879 D880 D881 L882 R883 R884 R885 K886 R887 V888 L889 R890 R891 L892 G893 F894 C895 T896 P897 N898 D899 S912 E921 F924 N925 G926 N927 F928 N929 E930 L931 K932 P933 E934 Q935 A936 A937 A938 C949
K950 E951 A952 P953 R954 L955 K956 P957 E958 L959 A960 E961 P962 L963 K964 A965 M966 R967 E968 I969 A970 A971 K972 I973 A974 K975 I976 M977 K978 D979 S980 K981 I982 E983 V984 V985 E986 K987 D988 Y989 V990 E991 H995 E996 L997 M998 E999 V1000 Y1001 Y1002 E1003 W1004 C1005 R1006 G1007 A1008 T1009 F1010 T1011


Q1012
I1013
C1014
K1015
M1016
T1017
D1018
V1019
Y1020
E1021
G1022
R1026
E1032
V1035
K1036
E1037
L1038
V1039
A1042
N1043
G1046
N1047
S1048
S1049
L1050
K1051
E1052
K1053
M1054
E1055
A1056
V1057
L1058
K1059
L1060
I1061
H1062
R1063
D1064
I1065
V1066
S1067
A1068
G1069
S1070
L1071
Y1072
L1073

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	35320	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 ($e^-/Å^2$)	44	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	0.473	Depositor
Minimum map value	-0.263	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.008	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	571.86, 571.86, 571.86	wwPDB
Map dimensions	540, 540, 540	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.059, 1.059, 1.059	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: GTP, MG, 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	CA	0.71	0/1917	0.73	0/2588
1	CB	0.30	0/1815	0.53	1/2448 (0.0%)
2	DA	0.60	0/1937	0.66	0/2593
3	UA	0.59	1/6465 (0.0%)	0.67	1/8752 (0.0%)
4	UB	0.20	0/4158	0.43	0/5607
5	UC	0.63	0/699	0.68	0/919
6	UD	0.24	0/5369	0.51	0/7272
7	UE	0.34	0/3840	0.52	0/5208
8	UF	0.46	0/2538	0.60	1/3405 (0.0%)
9	UG	0.60	0/3796	0.73	2/5126 (0.0%)
10	UH	0.17	0/2773	0.50	0/3798
11	UI	0.16	0/735	0.44	0/987
12	UJ	0.35	0/9111	0.55	3/12323 (0.0%)
13	UK	0.29	0/1869	0.58	0/2472
14	UL	0.38	0/6324	0.58	0/8546
15	UM	0.39	0/6071	0.60	2/8218 (0.0%)
16	UN	0.50	0/1697	0.65	1/2284 (0.0%)
17	UO	0.23	0/3993	0.53	0/5413
18	UP	0.26	0/499	0.55	0/659
19	UQ	0.21	0/6688	0.45	1/9062 (0.0%)
20	UR	0.40	0/3875	0.57	0/5254
21	US	0.15	0/3667	0.41	0/5001
22	UT	0.46	0/19132	0.65	1/25831 (0.0%)
23	UU	0.49	0/7059	0.58	0/9536
24	UV	0.32	0/8962	0.49	0/12120
25	UX	0.74	0/1353	0.80	2/1819 (0.1%)
26	CD	0.51	0/3041	0.60	0/4098
27	CE	0.34	0/3364	0.55	0/4539
28	CF	0.66	0/928	0.89	4/1262 (0.3%)
28	CG	0.66	0/928	0.88	4/1262 (0.3%)
29	CH	0.55	0/3809	0.64	0/5128
30	CI	0.41	0/1494	0.64	2/2008 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
31	CJ	0.49	0/2118	0.67	1/2855 (0.0%)
32	CK	0.44	0/1808	0.63	2/2424 (0.1%)
33	CL	0.54	0/6691	0.65	2/9000 (0.0%)
34	CM	0.46	0/2832	0.58	0/3825
35	CN	0.32	0/1909	0.49	0/2571
36	JD	0.26	0/6634	0.54	0/8927
37	JF	0.14	0/1727	0.42	0/2329
37	JG	0.19	0/1828	0.45	0/2470
38	JH	0.10	0/1293	0.36	0/1801
39	JI	0.12	0/1313	0.36	0/1830
40	JL	0.25	0/2305	0.51	0/3116
41	JM	0.33	0/1151	0.62	0/1535
42	JP	0.80	1/3844 (0.0%)	0.80	3/5174 (0.1%)
43	Db	0.61	0/620	0.63	0/838
44	JJ	0.54	0/1600	0.68	0/2154
45	DE	0.83	0/1991	0.76	0/2683
46	DF	0.47	0/1690	0.61	0/2285
47	DG	0.49	0/1779	0.62	0/2379
48	DH	0.51	0/1383	0.69	0/1863
49	DI	0.64	0/1422	0.69	0/1899
50	DJ	0.79	0/1519	0.75	0/2035
51	DL	0.72	0/1155	0.66	0/1557
52	DN	0.59	0/1215	0.65	0/1638
53	DO	0.59	0/933	0.72	0/1256
54	DQ	0.51	0/986	0.59	0/1330
55	DS	0.21	0/871	0.60	0/1171
56	DT	0.30	0/1130	0.62	0/1517
57	DW	0.87	0/1038	0.78	0/1395
58	DX	0.62	0/1133	0.73	0/1510
59	DY	0.69	0/1087	0.68	0/1449
60	Dc	0.54	0/499	0.63	0/670
61	D2	0.16	0/1946	0.27	0/3024
62	D3	0.60	0/33586	0.44	2/52290 (0.0%)
63	D4	0.32	0/5263	0.32	0/8171
64	EA	0.42	0/405	0.72	0/625
65	EB	0.60	1/1474 (0.1%)	0.79	0/2050
66	EC	0.60	0/1198	0.79	0/1666
67	ED	0.54	0/1569	0.82	0/2179
68	EE	0.57	0/1109	0.81	0/1545
69	EF	0.52	0/1319	0.80	0/1839
70	EG	0.56	0/1055	0.80	0/1462
71	EH	0.55	0/1169	0.86	2/1626 (0.1%)
72	EI	0.55	0/1437	0.84	0/1992

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\|>5$	RMSZ	$\#\|Z\|>5$
73	EJ	0.48	0/1087	0.84	0/1504
74	EK	0.66	0/4818	1.10	10/6720 (0.1%)
75	EN	0.49	0/4760	0.84	4/6629 (0.1%)
All	All	0.48	3/249605 (0.0%)	0.60	51/346346 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	DA	0	1
9	UG	0	2
10	UH	0	3
14	UL	0	1
15	UM	0	1
17	UO	0	1
22	UT	0	2
25	UX	0	1
26	CD	0	1
36	JD	0	1
42	JP	0	2
44	JJ	0	1
51	DL	0	1
59	DY	0	1
66	EC	0	1
67	ED	0	3
68	EE	0	1
69	EF	0	1
70	EG	0	2
72	EI	0	1
73	EJ	0	1
75	EN	0	3
All	All	0	32

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	JP	35	PHE	CA-CB	-7.71	1.42	1.53
65	EB	250	LYS	CA-CB	-7.15	1.43	1.53
3	UA	493	TRP	CA-C	-6.96	1.43	1.52

All (51) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
74	EK	272	VAL	N-CA-C	9.35	120.16	110.62
62	D3	849	C	OP2-P-O3'	-9.11	80.68	108.00
28	CG	31	ARG	CA-CB-CG	-8.68	96.74	114.10
28	CF	31	ARG	CA-CB-CG	-8.66	96.77	114.10
62	D3	849	C	OP1-P-O3'	-8.04	83.88	108.00
8	UF	12	ILE	CB-CA-C	-7.59	106.48	113.70
9	UG	449	ILE	CA-C-N	-7.05	111.46	120.34
9	UG	449	ILE	C-N-CA	-7.05	111.46	120.34
74	EK	551	ASP	N-CA-C	6.80	118.69	111.28
28	CG	31	ARG	CB-CG-CD	6.63	126.56	111.30
28	CF	31	ARG	CB-CG-CD	6.62	126.52	111.30
28	CF	31	ARG	CG-CD-NE	-6.46	97.78	112.00
28	CG	31	ARG	CG-CD-NE	-6.44	97.84	112.00
31	CJ	157	PHE	N-CA-C	6.29	123.70	109.81
12	UJ	1729	LEU	CA-C-N	6.08	124.07	120.24
12	UJ	1729	LEU	C-N-CA	6.08	124.07	120.24
74	EK	725	SER	N-CA-C	-5.89	104.86	111.28
75	EN	612	PHE	N-CA-C	-5.79	107.20	114.56
25	UX	152	ILE	CG1-CB-CG2	-5.64	93.77	110.70
30	CI	98	GLU	CA-C-N	-5.64	113.21	122.79
30	CI	98	GLU	C-N-CA	-5.64	113.21	122.79
32	CK	529	ARG	CG-CD-NE	-5.64	99.60	112.00
33	CL	119	GLU	CA-C-N	-5.58	112.21	120.68
33	CL	119	GLU	C-N-CA	-5.58	112.21	120.68
74	EK	552	ASP	N-CA-C	5.57	117.65	109.24
74	EK	73	SER	O-C-N	-5.57	116.18	122.97
75	EN	1063	ARG	CA-C-N	5.44	131.93	121.54
75	EN	1063	ARG	C-N-CA	5.44	131.93	121.54
22	UT	2165	TYR	CA-CB-CG	-5.43	104.13	113.90
75	EN	912	SER	N-CA-C	-5.43	107.67	114.56
42	JP	380	TRP	N-CA-C	-5.43	105.77	112.72
15	UM	45	LEU	CA-C-N	5.38	132.00	122.48
15	UM	45	LEU	C-N-CA	5.38	132.00	122.48
25	UX	133	LYS	N-CA-C	5.38	118.31	109.76
71	EH	81	SER	CA-C-N	5.38	131.81	121.54
71	EH	81	SER	C-N-CA	5.38	131.81	121.54
1	CB	236	MET	CB-CG-SD	-5.36	96.63	112.70
16	UN	313	PHE	N-CA-C	5.34	121.62	109.81
74	EK	367	ASP	N-CA-C	5.33	117.09	111.28
28	CF	50	GLU	CB-CG-CD	5.32	121.64	112.60
3	UA	422	PHE	CB-CA-C	-5.29	102.75	110.95
28	CG	50	GLU	CB-CG-CD	5.26	121.55	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
74	EK	16	GLY	N-CA-C	-5.22	108.04	115.30
74	EK	64	GLN	N-CA-C	-5.19	102.60	110.28
12	UJ	235	VAL	CB-CA-C	-5.16	108.80	113.70
19	UQ	28	VAL	N-CA-C	-5.06	108.90	113.71
32	CK	529	ARG	NE-CZ-NH1	-5.05	116.45	121.50
42	JP	269	TRP	CA-C-N	-5.05	104.64	122.15
42	JP	269	TRP	C-N-CA	-5.05	104.64	122.15
74	EK	385	LYS	N-CA-C	5.03	118.53	111.74
74	EK	662	ASP	N-CA-C	5.02	116.83	111.36

There are no chirality outliers.

All (32) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
26	CD	240	LEU	Peptide
2	DA	11	LYS	Peptide
51	DL	78	THR	Peptide
59	DY	33	ALA	Peptide
66	EC	166	TYR	Peptide
67	ED	335	ASP	Peptide
67	ED	352	ALA	Peptide
67	ED	54	ILE	Peptide
68	EE	188	GLU	Peptide
69	EF	136	HIS	Peptide
70	EG	141	LEU	Peptide
70	EG	216	ASP	Peptide
72	EI	92	ASN	Peptide
73	EJ	149	GLN	Peptide
75	EN	541	SER	Peptide
75	EN	573	LYS	Peptide
75	EN	615	VAL	Peptide
36	JD	1018	LYS	Peptide
44	JJ	68	SER	Peptide
42	JP	301	PHE	Peptide
42	JP	302	LYS	Peptide
9	UG	199	LEU	Peptide
9	UG	452	VAL	Peptide
10	UH	266	ILE	Peptide
10	UH	308	PHE	Peptide
10	UH	74	ILE	Peptide
14	UL	386	GLU	Peptide
15	UM	567	VAL	Peptide

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Mol	Chain	Res	Type	Group
17	UO	278	ASP	Peptide
22	UT	1683	ARG	Peptide
22	UT	1926	PHE	Peptide
25	UX	51	LEU	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	CA	1881	0	1928	113	0
1	CB	1782	0	1826	109	0
2	DA	1912	0	2023	89	0
3	UA	6322	0	6223	250	0
4	UB	4105	0	3846	155	0
5	UC	694	0	742	31	0
6	UD	5269	0	5281	278	0
7	UE	3772	0	3806	197	0
8	UF	2487	0	2533	105	0
9	UG	3718	0	3721	148	0
10	UH	2771	0	1817	79	0
11	UI	723	0	770	38	0
12	UJ	8961	0	9273	386	0
13	UK	1845	0	1926	104	0
14	UL	6199	0	6221	319	0
15	UM	5970	0	6009	373	0
16	UN	1667	0	1658	71	0
17	UO	3911	0	3906	292	0
18	UP	495	0	561	41	0
19	UQ	6557	0	6489	346	0
20	UR	3791	0	3772	206	0
21	US	3587	0	3200	138	0
22	UT	18789	0	19126	922	0
23	UU	6922	0	6886	313	0
24	UV	8753	0	8867	428	0
25	UX	1330	0	1416	61	0
26	CD	2994	0	3018	106	0
27	CE	3326	0	3406	176	0
28	CF	916	0	964	56	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
28	CG	916	0	964	53	0
29	CH	3736	0	3756	120	0
30	CI	1468	0	1519	77	0
31	CJ	2081	0	2112	109	0
32	CK	1789	0	1801	102	0
33	CL	6551	0	6707	289	0
34	CM	2781	0	2878	113	0
35	CN	1868	0	1845	98	0
36	JD	6509	0	6724	372	0
37	JF	1701	0	1767	82	0
37	JG	1799	0	1872	94	0
38	JH	1295	0	570	3	0
39	JI	1314	0	610	5	0
40	JL	2262	0	2330	93	0
41	JM	1131	0	1161	63	0
42	JP	3765	0	3714	154	0
43	Db	610	0	630	16	0
44	JJ	1573	0	1650	70	0
45	DE	1950	0	2035	57	0
46	DF	1669	0	1724	58	0
47	DG	1755	0	1846	73	0
48	DH	1361	0	1437	54	0
49	DI	1399	0	1431	60	0
50	DJ	1494	0	1573	46	0
51	DL	1129	0	1196	31	0
52	DN	1192	0	1255	34	0
53	DO	922	0	946	45	0
54	DQ	969	0	1025	40	0
55	DS	861	0	896	39	0
56	DT	1112	0	1124	41	0
57	DW	1021	0	1060	36	0
58	DX	1115	0	1191	53	0
59	DY	1073	0	1132	24	0
60	Dc	497	0	535	23	0
61	D2	1741	0	876	50	0
62	D3	30042	0	15140	753	0
63	D4	4720	0	2397	159	0
64	EA	366	0	184	1	0
65	EB	1475	0	658	14	0
66	EC	1199	0	527	9	0
67	ED	1571	0	699	10	0
68	EE	1107	0	499	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
69	EF	1317	0	575	6	0
70	EG	1058	0	478	4	0
71	EH	1170	0	528	7	0
72	EI	1440	0	648	7	0
73	EJ	1091	0	500	12	0
74	EK	4818	0	2108	34	0
75	EN	4762	0	2107	58	0
76	Db	1	0	0	0	0
76	EK	1	0	0	0	0
76	UX	1	0	0	0	0
77	CL	32	0	12	3	0
78	CL	1	0	0	0	0
78	EK	1	0	0	0	0
All	All	242031	0	212166	8705	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 20.

All (8705) 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)
14:UL:671:PHE:HA	14:UL:684:TRP:O	1.25	1.32
3:UA:77:GLY:HA3	3:UA:95:PHE:O	1.27	1.28
9:UG:132:GLY:HA3	9:UG:150:LEU:O	1.33	1.24
23:UU:228:GLY:HA3	23:UU:246:ILE:O	1.12	1.22
59:DY:29:HIS:O	59:DY:67:GLY:HA2	1.36	1.21
17:UO:191:GLY:HA3	17:UO:211:HIS:O	1.07	1.19
74:EK:94:VAL:O	74:EK:98:ALA:HB3	1.44	1.15
20:UR:382:GLY:HA3	20:UR:400:ILE:O	1.43	1.15
33:CL:964:ALA:O	33:CL:975:GLU:HA	1.45	1.15
14:UL:673:VAL:HA	14:UL:682:ARG:O	1.45	1.15
10:UH:264:SER:O	10:UH:267:ILE:HA	1.51	1.10
17:UO:191:GLY:CA	17:UO:211:HIS:O	2.03	1.06
9:UG:132:GLY:CA	9:UG:150:LEU:O	2.05	1.04
20:UR:486:SER:OG	28:CF:89:ARG:NH2	1.92	1.02
20:UR:382:GLY:CA	20:UR:400:ILE:O	2.09	1.01
75:EN:616:ILE:O	75:EN:618:VAL:N	1.93	1.00
2:DA:145:LYS:HB2	2:DA:149:GLN:HG3	1.43	1.00
19:UQ:360:MET:HB3	19:UQ:368:ASP:O	1.59	1.00
23:UU:228:GLY:CA	23:UU:246:ILE:O	2.08	0.99
1:CA:122:ARG:NH1	1:CA:140:GLU:OE2	1.95	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:JD:613:ILE:O	36:JD:617:LEU:HB2	1.63	0.98
7:UE:120:ILE:HG13	7:UE:151:LEU:HD23	1.42	0.98
31:CJ:173:ARG:HA	31:CJ:176:ILE:HD12	1.43	0.98
10:UH:72:THR:O	10:UH:75:ILE:HA	1.62	0.97
3:UA:758:ILE:HD11	3:UA:798:TRP:HZ2	1.26	0.96
37:JF:167:ILE:O	37:JF:171:LEU:HB2	1.65	0.96
14:UL:671:PHE:CA	14:UL:684:TRP:O	2.14	0.96
21:US:495:MET:O	21:US:499:LEU:HB2	1.66	0.95
22:UT:1228:LEU:HD13	22:UT:1271:LEU:HD11	1.46	0.94
35:CN:77:LYS:HE2	35:CN:147:LEU:HD11	1.49	0.94
21:US:386:LEU:O	21:US:390:SER:HB2	1.66	0.94
3:UA:55:ARG:HD3	3:UA:621:MET:HE2	1.49	0.93
28:CG:18:GLN:NE2	29:CH:398:CYS:SG	2.41	0.93
30:CI:39:GLN:HE21	30:CI:43:ASP:HB2	1.34	0.92
61:D2:281:G:H2'	61:D2:282:G:H8	1.33	0.92
62:D3:575:C:HO2'	62:D3:576:G:H8	0.97	0.92
3:UA:793:GLU:OE2	23:UU:721:LEU:N	2.03	0.91
15:UM:240:ASN:ND2	24:UV:636:GLU:OE1	2.04	0.91
74:EK:42:ARG:CB	74:EK:152:PHE:O	2.18	0.91
15:UM:787:PRO:HG3	32:CK:495:ILE:HD11	1.52	0.91
7:UE:547:LEU:HD23	17:UO:488:LYS:HD2	1.53	0.90
24:UV:828:ASP:O	24:UV:837:ILE:HB	1.70	0.90
74:EK:94:VAL:O	74:EK:98:ALA:CB	2.19	0.90
9:UG:194:ARG:O	9:UG:208:ALA:O	1.88	0.90
74:EK:617:PRO:HA	74:EK:648:SER:CB	2.02	0.90
10:UH:341:LEU:HA	10:UH:358:VAL:O	1.71	0.90
22:UT:1655:ARG:NH2	22:UT:1744:GLU:OE2	2.05	0.90
55:DS:65:GLU:HA	55:DS:68:ARG:HD3	1.53	0.90
62:D3:976:G:H1	62:D3:1023:A:HO2'	1.17	0.90
36:JD:766:THR:HA	36:JD:812:ARG:HH21	1.37	0.89
12:UJ:715:HIS:CD2	12:UJ:718:ARG:HH22	1.91	0.89
50:DJ:18:PRO:O	50:DJ:23:ARG:NH2	2.05	0.89
12:UJ:25:ARG:NH2	42:JP:11:ASP:OD2	2.06	0.89
27:CE:361:ARG:NH2	63:D4:85:G:N7	2.20	0.89
48:DH:31:SER:O	48:DH:35:LYS:NZ	2.05	0.89
17:UO:27:TRP:HA	17:UO:30:TYR:HD2	1.38	0.88
34:CM:301:MET:HE1	34:CM:311:LEU:HB2	1.56	0.88
37:JG:167:ILE:O	37:JG:171:LEU:HB2	1.73	0.88
23:UU:510:LEU:HD21	23:UU:514:ASN:HA	1.52	0.88
15:UM:286:GLU:HB3	15:UM:288:LEU:HD13	1.56	0.88
19:UQ:323:LEU:O	19:UQ:331:GLN:HA	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1652:ASP:OD1	22:UT:1655:ARG:NH1	2.06	0.88
22:UT:1341:GLU:OE1	22:UT:1389:LYS:NZ	2.05	0.87
9:UG:552:ARG:NH2	24:UV:791:LYS:O	2.07	0.87
37:JG:70:CYS:HB2	37:JG:84:ILE:HG23	1.55	0.87
9:UG:238:MET:HG3	9:UG:249:LEU:HD23	1.56	0.87
20:UR:488:SER:HB3	28:CF:89:ARG:HH11	1.38	0.87
48:DH:44:LYS:HG3	48:DH:63:PRO:HD3	1.54	0.87
62:D3:1484:G:N2	62:D3:1606:C:O2	2.08	0.87
7:UE:498:LEU:HA	7:UE:501:TRP:HD1	1.40	0.86
62:D3:657:U:O2	62:D3:677:G:N1	2.08	0.86
35:CN:259:ARG:NH2	52:DN:83:GLU:OE1	2.09	0.86
22:UT:957:LYS:HG3	22:UT:959:PRO:HD2	1.56	0.86
22:UT:1381:LYS:HE2	22:UT:1386:GLU:HG3	1.58	0.86
63:D4:154:C:H42	63:D4:159:C:H42	1.23	0.86
3:UA:510:GLU:OE2	46:DF:83:ARG:NH2	2.08	0.86
22:UT:12:LYS:NZ	62:D3:60:U:OP2	2.08	0.86
62:D3:1119:G:N2	63:D4:6:C:O2	2.07	0.86
19:UQ:118:VAL:HB	19:UQ:130:LYS:HB2	1.56	0.86
12:UJ:1370:TYR:HA	12:UJ:1373:ILE:HG12	1.56	0.86
12:UJ:408:ILE:HA	12:UJ:412:GLU:HB2	1.56	0.85
31:CJ:77:TYR:O	31:CJ:81:SER:HB3	1.76	0.85
37:JF:112:VAL:HB	37:JF:124:VAL:HB	1.55	0.85
55:DS:41:ARG:NH2	62:D3:1564:U:O3'	2.08	0.85
61:D2:89:C:H5"	61:D2:90:G:H5'	1.57	0.85
62:D3:6:G:N2	62:D3:18:C:O2	2.08	0.85
22:UT:1670:LEU:HD22	22:UT:1701:MET:HE1	1.59	0.85
62:D3:655:G:N2	62:D3:656:G:O6	2.10	0.85
19:UQ:319:LYS:NZ	19:UQ:478:ASN:O	2.09	0.85
28:CF:111:LYS:NZ	28:CF:115:TYR:OH	2.10	0.85
51:DL:79:LYS:NZ	62:D3:346:G:OP2	2.09	0.85
17:UO:117:LEU:HD21	46:DF:124:LEU:HD21	1.58	0.85
17:UO:125:HIS:HB3	17:UO:145:ASP:HB2	1.59	0.85
62:D3:1666:U:H3	62:D3:1735:U:H3	1.24	0.85
19:UQ:875:MET:O	19:UQ:879:ILE:HB	1.75	0.84
12:UJ:81:LEU:HD12	12:UJ:86:GLN:HE22	1.40	0.84
22:UT:1477:LYS:NZ	22:UT:1479:ASN:OD1	2.10	0.84
65:EB:166:ASP:CB	65:EB:182:ARG:CB	2.56	0.84
15:UM:188:GLU:OE2	24:UV:657:ARG:NH2	2.10	0.84
30:CI:56:ARG:HH22	32:CK:440:LEU:HD11	1.41	0.84
14:UL:540:SER:HA	14:UL:581:ILE:HD11	1.58	0.84
22:UT:898:LYS:NZ	22:UT:944:SER:OG	2.11	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CL:215:TYR:HB2	33:CL:220:ILE:HD11	1.60	0.84
49:DI:172:ARG:NH1	62:D3:330:G:OP2	2.11	0.84
22:UT:327:GLY:HA2	22:UT:330:ILE:HB	1.59	0.83
28:CG:111:LYS:NZ	28:CG:115:TYR:OH	2.10	0.83
28:CF:32:GLN:HE21	28:CF:105:ASN:HB3	1.43	0.83
7:UE:84:GLU:OE2	7:UE:86:TRP:NE1	2.09	0.83
14:UL:7:ARG:NH2	14:UL:70:GLY:O	2.11	0.83
12:UJ:1566:ILE:HG22	12:UJ:1568:GLU:H	1.41	0.83
28:CG:32:GLN:HE21	28:CG:105:ASN:HB3	1.43	0.83
8:UF:289:HIS:ND1	27:CE:216:SER:OG	2.10	0.83
36:JD:1092:VAL:HG11	36:JD:1217:PHE:HE2	1.44	0.83
62:D3:775:G:O6	62:D3:785:U:N3	2.12	0.83
15:UM:749:ASN:OD1	15:UM:750:ALA:N	2.12	0.83
12:UJ:1667:VAL:HG23	12:UJ:1710:ALA:HA	1.61	0.83
2:DA:243:LYS:HZ2	24:UV:656:ARG:HE	1.23	0.83
35:CN:63:ASN:OD1	35:CN:66:HIS:ND1	2.11	0.83
62:D3:1671:A:N6	62:D3:1730:A:O2'	2.12	0.83
4:UB:115:LYS:NZ	34:CM:67:ILE:O	2.10	0.82
7:UE:311:MET:HE3	7:UE:312:PRO:HD2	1.59	0.82
12:UJ:712:ASN:HB2	12:UJ:715:HIS:ND1	1.94	0.82
24:UV:1205:LYS:N	24:UV:1213:ILE:O	2.10	0.82
22:UT:1518:MET:HE3	22:UT:1523:TYR:HA	1.60	0.82
31:CJ:103:PHE:HB2	31:CJ:172:MET:HE2	1.59	0.82
33:CL:72:VAL:HG12	33:CL:137:LEU:HB3	1.60	0.82
8:UF:142:THR:HA	8:UF:175:ASN:HD21	1.43	0.82
22:UT:414:LEU:HB3	22:UT:447:LYS:HD3	1.61	0.82
23:UU:277:ASP:HB2	23:UU:284:ILE:HD11	1.62	0.82
19:UQ:694:LEU:O	19:UQ:698:VAL:C	2.23	0.82
9:UG:77:GLU:OE1	42:JP:1:MET:N	2.10	0.82
17:UO:358:GLN:O	17:UO:362:ARG:HB3	1.80	0.82
36:JD:1050:LYS:HE3	36:JD:1057:ASN:HD22	1.44	0.82
62:D3:444:C:N4	62:D3:459:G:OP2	2.11	0.82
6:UD:475:THR:HA	6:UD:490:SER:HA	1.62	0.82
37:JG:150:ILE:HG13	37:JG:160:LEU:HD12	1.61	0.82
22:UT:1563:ARG:HH12	22:UT:1624:THR:HG22	1.45	0.82
7:UE:342:ASP:HA	7:UE:350:LEU:HD22	1.60	0.81
33:CL:9:ARG:NH2	62:D3:620:A:OP1	2.12	0.81
74:EK:930:VAL:O	74:EK:934:GLY:HA2	1.80	0.81
24:UV:529:VAL:HA	24:UV:695:GLN:O	1.80	0.81
36:JD:928:VAL:HG23	36:JD:1045:LEU:HD11	1.61	0.81
62:D3:895:G:H1	62:D3:917:U:H3	1.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:UJ:1742:GLU:HA	12:UJ:1745:GLU:HG2	1.63	0.81
12:UJ:1763:PRO:O	12:UJ:1766:ARG:NH1	2.14	0.81
22:UT:2113:ASP:OD2	22:UT:2114:ASP:N	2.14	0.81
24:UV:656:ARG:NH1	24:UV:666:CYS:SG	2.53	0.81
34:CM:66:GLU:HB2	34:CM:75:ILE:HB	1.63	0.81
62:D3:1753:A:H2'	62:D3:1754:A:H8	1.43	0.81
65:EB:301:ASN:O	74:EK:505:ALA:O	1.98	0.81
4:UB:52:ARG:HD3	32:CK:370:ARG:HH12	1.45	0.81
19:UQ:559:LYS:HG2	19:UQ:612:SER:HA	1.62	0.81
42:JP:311:VAL:HG12	42:JP:322:THR:HG22	1.63	0.81
47:DG:171:LYS:NZ	62:D3:68:A:OP2	2.13	0.81
6:UD:427:ASN:HD21	18:UP:190:LEU:HD21	1.45	0.81
62:D3:4:C:O2	62:D3:20:G:N2	2.12	0.81
14:UL:643:ASP:HB2	14:UL:650:ILE:HD11	1.62	0.81
56:DT:86:ARG:NE	56:DT:90:PRO:O	2.13	0.81
22:UT:333:TRP:HB2	22:UT:373:THR:HG21	1.63	0.81
51:DL:105:LYS:NZ	62:D3:306:U:OP2	2.14	0.81
36:JD:507:LEU:HD11	36:JD:510:TYR:HB2	1.61	0.81
75:EN:616:ILE:C	75:EN:618:VAL:H	1.88	0.81
6:UD:354:LYS:O	6:UD:374:THR:HA	1.80	0.80
22:UT:1151:ILE:HD13	22:UT:1198:PHE:CD1	2.15	0.80
31:CJ:226:ASN:ND2	31:CJ:289:TYR:OH	2.14	0.80
50:DJ:17:ARG:HD2	50:DJ:18:PRO:HD2	1.63	0.80
33:CL:45:ARG:NH2	62:D3:44:U:OP2	2.14	0.80
22:UT:1779:VAL:HG12	22:UT:1780:ARG:H	1.44	0.80
4:UB:751:THR:HA	4:UB:754:GLU:HG2	1.62	0.80
29:CH:234:GLY:O	29:CH:259:LYS:NZ	2.12	0.80
29:CH:241:THR:HG21	29:CH:285:SER:HA	1.63	0.80
19:UQ:872:PHE:HB3	19:UQ:875:MET:HE1	1.64	0.80
32:CK:538:LYS:HZ3	62:D3:1628:U:H5"	1.47	0.80
62:D3:1695:G:N2	62:D3:1706:C:O2	2.12	0.80
13:UK:111:ARG:HE	13:UK:212:LYS:HB2	1.45	0.80
17:UO:237:TRP:HA	17:UO:244:LYS:HA	1.63	0.80
36:JD:362:TYR:O	36:JD:366:ASN:HB2	1.81	0.80
41:JM:108:LYS:HD3	41:JM:109:PRO:HD2	1.64	0.80
62:D3:6:G:N1	62:D3:18:C:N3	2.28	0.80
9:UG:386:PHE:O	42:JP:8:ARG:NH2	2.14	0.80
21:US:191:ILE:O	21:US:195:PHE:HB2	1.82	0.80
22:UT:1592:PRO:O	22:UT:1595:SER:O	1.98	0.80
2:DA:19:ARG:NH2	62:D3:898:A:OP2	2.14	0.80
47:DG:137:ARG:NH1	62:D3:144:U:O4	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UR:486:SER:HG	28:CF:89:ARG:HH22	1.28	0.79
22:UT:2113:ASP:OD2	22:UT:2115:ALA:N	2.15	0.79
3:UA:516:SER:OG	3:UA:536:LYS:NZ	2.13	0.79
15:UM:445:ILE:HD12	15:UM:451:PRO:HA	1.64	0.79
19:UQ:36:ARG:HH11	19:UQ:93:LEU:HG	1.48	0.79
23:UU:879:GLU:HG3	23:UU:880:LEU:HD12	1.63	0.79
24:UV:372:GLN:NE2	24:UV:511:PHE:O	2.15	0.79
20:UR:516:THR:HG22	20:UR:517:THR:H	1.46	0.79
61:D2:281:G:H2'	61:D2:282:G:C8	2.17	0.79
32:CK:510:LYS:NZ	62:D3:1630:U:O4	2.15	0.79
7:UE:485:ALA:HB2	7:UE:526:LEU:HG	1.64	0.79
22:UT:2444:ARG:NH2	62:D3:829:A:OP2	2.15	0.79
24:UV:268:LEU:HB3	24:UV:294:LEU:HB2	1.63	0.79
53:DO:124:ASP:OD2	62:D3:885:G:N2	2.16	0.79
59:DY:10:ARG:NE	59:DY:26:ASP:OD2	2.13	0.79
4:UB:525:MET:HE1	4:UB:549:ILE:HB	1.63	0.79
31:CJ:86:PRO:O	31:CJ:113:ASN:ND2	2.16	0.79
36:JD:478:ARG:HA	36:JD:499:ARG:HH12	1.46	0.79
15:UM:179:LYS:O	44:JJ:69:LYS:NZ	2.16	0.79
15:UM:544:TYR:HB3	15:UM:587:GLN:HG2	1.63	0.79
17:UO:279:GLY:HA3	17:UO:298:PHE:O	1.83	0.79
25:UX:161:LYS:HG2	25:UX:172:LEU:HD21	1.65	0.79
6:UD:265:TRP:HA	6:UD:272:LEU:HA	1.65	0.79
36:JD:738:LEU:O	36:JD:741:LYS:NZ	2.15	0.79
41:JM:163:ARG:NH1	63:D4:312:U:H5"	1.98	0.78
33:CL:82:LYS:HG2	33:CL:119:GLU:HG3	1.65	0.78
26:CD:302:ASN:ND2	26:CD:397:SER:O	2.15	0.78
9:UG:123:THR:HG23	9:UG:124:HIS:HD2	1.48	0.78
23:UU:802:MET:O	36:JD:1212:TYR:OH	2.01	0.78
32:CK:516:SER:HB2	32:CK:519:GLU:HG3	1.65	0.78
36:JD:761:THR:HG22	36:JD:762:ASN:H	1.48	0.78
49:DI:56:ARG:HH22	62:D3:332:U:P	2.06	0.78
36:JD:1133:VAL:HG13	36:JD:1165:THR:HG23	1.64	0.78
10:UH:595:ILE:HG22	10:UH:599:MET:HE2	1.66	0.78
14:UL:263:THR:HG1	14:UL:270:SER:N	1.81	0.78
15:UM:559:ILE:HB	15:UM:569:LYS:HB2	1.65	0.78
17:UO:27:TRP:HA	17:UO:30:TYR:CD2	2.19	0.78
17:UO:213:GLN:NE2	17:UO:233:ASN:OD1	2.16	0.78
25:UX:93:LYS:NZ	25:UX:95:ASN:OD1	2.17	0.78
34:CM:199:ARG:NH1	34:CM:232:GLY:O	2.15	0.78
53:DO:25:ASP:OD1	53:DO:26:THR:N	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UF:167:ILE:HD11	16:UN:327:PHE:CD1	2.19	0.78
22:UT:874:LEU:HD21	22:UT:885:ARG:HH11	1.48	0.78
12:UJ:760:PHE:O	12:UJ:768:LYS:NZ	2.16	0.78
13:UK:59:ASN:ND2	30:CI:118:LEU:O	2.17	0.78
17:UO:192:LEU:H	17:UO:211:HIS:H	1.32	0.78
22:UT:4:GLN:N	62:D3:76:A:N7	2.32	0.78
13:UK:186:PRO:HA	13:UK:190:LEU:HD13	1.65	0.78
22:UT:1856:THR:HG22	42:JP:107:LYS:HE3	1.64	0.78
28:CF:5:ASN:OD1	28:CF:7:LYS:N	2.16	0.78
6:UD:205:CYS:SG	6:UD:211:ARG:NH1	2.57	0.77
19:UQ:495:ILE:HD11	19:UQ:509:THR:HB	1.66	0.77
28:CG:5:ASN:OD1	28:CG:7:LYS:N	2.16	0.77
74:EK:136:CYS:HA	74:EK:145:PHE:CB	2.14	0.77
7:UE:148:LEU:HA	7:UE:167:SER:HB3	1.65	0.77
32:CK:511:ASN:ND2	62:D3:1639:C:OP2	2.17	0.77
15:UM:585:ASN:ND2	15:UM:627:ASN:O	2.16	0.77
36:JD:1180:ASN:OD1	36:JD:1183:ARG:NH2	2.17	0.77
37:JF:44:VAL:HG12	37:JF:113:TYR:HB2	1.66	0.77
62:D3:777:C:N4	62:D3:783:G:O6	2.18	0.77
6:UD:640:ILE:HD11	6:UD:749:SER:HA	1.66	0.77
10:UH:308:PHE:O	10:UH:310:MET:N	2.16	0.77
22:UT:1641:GLN:OE1	22:UT:1644:ARG:NH2	2.16	0.77
33:CL:618:PHE:CE1	34:CM:274:LYS:HA	2.20	0.77
3:UA:451:ASP:OD1	30:CI:153:ASN:ND2	2.17	0.77
17:UO:133:HIS:CD2	17:UO:136:ASP:H	2.02	0.77
22:UT:1806:SER:OG	22:UT:1807:GLU:OE2	2.02	0.77
62:D3:1698:G:N2	62:D3:1703:C:O2	2.15	0.77
4:UB:443:LYS:HB2	4:UB:448:PHE:HB2	1.66	0.77
29:CH:334:GLU:HG3	29:CH:352:PRO:HG2	1.66	0.77
62:D3:1495:C:O2	62:D3:1512:G:N2	2.15	0.77
2:DA:157:GLN:NE2	62:D3:1046:G:OP1	2.18	0.77
17:UO:415:LEU:O	17:UO:419:GLN:NE2	2.16	0.77
20:UR:242:ASN:ND2	20:UR:584:GLY:O	2.18	0.77
27:CE:324:LYS:NZ	63:D4:90:C:O2'	2.18	0.77
33:CL:225:ARG:NH1	62:D3:51:A:N1	2.29	0.77
35:CN:105:SER:OG	35:CN:194:ARG:NH2	2.17	0.77
36:JD:1211:CYS:SG	36:JD:1238:GLN:NE2	2.58	0.77
63:D4:160:G:H2'	63:D4:161:G:H8	1.49	0.77
8:UF:336:ASN:OD1	8:UF:340:GLN:NE2	2.16	0.77
22:UT:2071:PRO:O	22:UT:2076:ARG:NH1	2.18	0.77
36:JD:851:VAL:HA	36:JD:854:MET:HE2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:JG:174:LYS:HG2	37:JG:200:GLU:HG3	1.67	0.77
59:DY:29:HIS:O	59:DY:67:GLY:CA	2.28	0.77
14:UL:795:ILE:O	14:UL:798:ASN:ND2	2.18	0.77
22:UT:2237:THR:HA	22:UT:2240:LEU:HD12	1.68	0.77
30:CI:32:VAL:HA	30:CI:35:THR:HG22	1.67	0.77
33:CL:290:ILE:HG12	33:CL:812:MET:HG2	1.66	0.77
7:UE:301:LEU:HD23	7:UE:317:LEU:HD11	1.66	0.76
7:UE:443:GLN:HE21	17:UO:252:ASN:HD21	1.33	0.76
13:UK:64:TYR:OH	30:CI:119:LYS:NZ	2.18	0.76
32:CK:350:THR:HG21	33:CL:975:GLU:HB3	1.67	0.76
45:DE:129:VAL:HG12	45:DE:139:VAL:HG12	1.67	0.76
6:UD:742:LEU:N	6:UD:755:ILE:O	2.12	0.76
7:UE:277:LYS:HG2	7:UE:324:ASN:HA	1.68	0.76
25:UX:4:ALA:HA	25:UX:8:ARG:HD3	1.67	0.76
33:CL:610:LYS:NZ	33:CL:612:VAL:O	2.17	0.76
33:CL:977:LYS:NZ	62:D3:1598:U:OP2	2.14	0.76
46:DF:26:ALA:HB3	54:DQ:28:LEU:HB3	1.67	0.76
57:DW:18:GLU:OE2	62:D3:1096:C:N4	2.17	0.76
12:UJ:778:SER:O	12:UJ:782:VAL:HB	1.85	0.76
12:UJ:1553:ARG:O	12:UJ:1557:ASP:HB2	1.85	0.76
13:UK:15:GLU:OE2	13:UK:30:LYS:NZ	2.13	0.76
14:UL:140:SER:OG	14:UL:142:ASP:OD1	2.02	0.76
31:CJ:164:GLN:NE2	31:CJ:260:GLU:OE1	2.18	0.76
36:JD:617:LEU:O	36:JD:755:ARG:NH1	2.19	0.76
24:UV:382:SER:O	24:UV:588:GLN:NE2	2.17	0.76
15:UM:689:ASP:OD2	32:CK:503:LYS:NZ	2.18	0.76
22:UT:30:PRO:O	22:UT:33:ASN:O	2.04	0.76
22:UT:2309:LYS:O	22:UT:2312:ARG:NH1	2.19	0.76
62:D3:1554:U:O2	62:D3:1556:A:N6	2.17	0.76
14:UL:365:TYR:OH	14:UL:381:LYS:NZ	2.18	0.76
3:UA:716:ASP:OD1	23:UU:576:ARG:NH1	2.18	0.76
4:UB:647:ILE:HA	4:UB:651:TRP:HB2	1.66	0.76
3:UA:482:SER:O	3:UA:486:SER:HA	1.85	0.76
23:UU:329:SER:OG	23:UU:333:GLY:N	2.19	0.76
26:CD:180:LEU:HD21	27:CE:183:ARG:HG2	1.68	0.76
6:UD:301:ASP:O	6:UD:771:GLN:NE2	2.19	0.76
13:UK:65:HIS:HE2	63:D4:54:C:HO2'	1.28	0.76
17:UO:253:LYS:HD2	21:US:333:GLU:HB3	1.66	0.76
22:UT:1206:THR:HA	22:UT:1211:ILE:HD11	1.67	0.76
22:UT:2465:ARG:HH22	62:D3:823:G:H3'	1.48	0.76
31:CJ:173:ARG:HD2	31:CJ:179:ALA:HB3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JL:162:ARG:NH2	62:D3:1779:U:OP2	2.18	0.76
47:DG:56:ASN:HD21	62:D3:153:G:H21	1.34	0.76
62:D3:823:G:O6	62:D3:849:C:N4	2.19	0.76
3:UA:758:ILE:HD11	3:UA:798:TRP:CZ2	2.16	0.75
8:UF:299:LYS:HZ3	8:UF:300:MET:HE2	1.49	0.75
15:UM:743:CYS:SG	15:UM:759:THR:OG1	2.45	0.75
17:UO:385:MET:HE2	17:UO:390:ARG:HA	1.68	0.75
20:UR:487:GLU:HA	20:UR:517:THR:HA	1.67	0.75
20:UR:576:LEU:HD23	20:UR:588:LEU:HD21	1.68	0.75
22:UT:2175:GLU:HG2	22:UT:2176:HIS:H	1.49	0.75
26:CD:397:SER:HB3	26:CD:399:VAL:HG12	1.66	0.75
36:JD:451:ARG:HD3	36:JD:763:VAL:HG23	1.68	0.75
42:JP:439:ARG:NH2	62:D3:1042:G:O5'	2.17	0.75
48:DH:50:ASP:OD1	48:DH:175:LYS:NZ	2.20	0.75
17:UO:80:PHE:O	55:DS:57:ARG:NH2	2.17	0.75
22:UT:2465:ARG:NH1	62:D3:824:G:OP2	2.18	0.75
6:UD:476:LYS:HG3	6:UD:491:CYS:HA	1.67	0.75
16:UN:306:ARG:NH2	42:JP:273:GLU:OE1	2.19	0.75
24:UV:162:PHE:O	24:UV:597:ARG:NH1	2.19	0.75
66:EC:15:ASP:CB	74:EK:40:TYR:CB	2.65	0.75
6:UD:31:MET:HE2	6:UD:752:LEU:HG	1.67	0.75
8:UF:36:ARG:NE	8:UF:60:GLU:OE2	2.17	0.75
20:UR:143:THR:HA	20:UR:146:LEU:HD12	1.66	0.75
21:US:407:ARG:HD3	21:US:488:PHE:HB3	1.69	0.75
22:UT:2130:LEU:HD21	22:UT:2167:VAL:HG13	1.68	0.75
22:UT:2471:ARG:NH2	62:D3:845:G:OP2	2.19	0.75
3:UA:523:MET:SD	3:UA:530:VAL:HG12	2.27	0.75
13:UK:65:HIS:NE2	63:D4:54:C:O2'	2.19	0.75
14:UL:675:SER:HA	14:UL:680:SER:O	1.87	0.75
15:UM:692:MET:HE2	32:CK:515:MET:HE1	1.67	0.75
20:UR:444:ILE:HG22	20:UR:445:ARG:HG2	1.67	0.75
17:UO:197:ASP:HB2	17:UO:206:ILE:HD11	1.66	0.75
19:UQ:320:VAL:HA	19:UQ:334:LEU:O	1.87	0.75
20:UR:376:LEU:HD22	20:UR:386:ILE:HD12	1.68	0.75
33:CL:735:GLY:HA3	34:CM:251:GLN:HE22	1.51	0.75
15:UM:492:LYS:HB2	15:UM:512:ASP:HB3	1.68	0.75
19:UQ:101:GLN:OE1	19:UQ:104:ALA:N	2.19	0.75
62:D3:705:U:O4	62:D3:733:A:N6	2.20	0.75
6:UD:213:TRP:HA	6:UD:225:LEU:HA	1.68	0.75
15:UM:32:LEU:HD23	15:UM:43:ILE:HD11	1.68	0.75
46:DF:95:ASN:OD1	46:DF:107:LYS:NZ	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DX:109:ARG:NH1	58:DX:116:ASP:OD2	2.19	0.75
8:UF:278:MET:HG2	8:UF:341:PHE:CE2	2.22	0.75
26:CD:192:ALA:HB1	26:CD:213:ASN:HB2	1.68	0.75
32:CK:401:SER:O	44:JJ:218:ASN:ND2	2.20	0.75
49:DI:56:ARG:NH2	62:D3:332:U:OP1	2.20	0.75
6:UD:303:LYS:NZ	61:D2:84:G:OP2	2.19	0.74
23:UU:135:ASN:HB3	23:UU:159:VAL:HG23	1.69	0.74
28:CF:50:GLU:OE1	28:CF:50:GLU:HA	1.85	0.74
36:JD:613:ILE:O	36:JD:616:LYS:O	2.05	0.74
37:JG:112:VAL:HG13	37:JG:124:VAL:HG13	1.69	0.74
45:DE:122:LYS:NZ	45:DE:143:ASP:OD2	2.15	0.74
63:D4:46:U:H2'	63:D4:47:G:C8	2.21	0.74
12:UJ:550:TYR:O	12:UJ:553:SER:C	2.30	0.74
14:UL:357:THR:HG1	14:UL:361:THR:HG1	1.33	0.74
42:JP:270:ASN:HD21	42:JP:273:GLU:HG3	1.51	0.74
1:CB:122:ARG:NH2	63:D4:319:G:OP1	2.21	0.74
19:UQ:850:GLU:HA	19:UQ:853:ILE:HD12	1.69	0.74
33:CL:945:THR:OG1	62:D3:1595:U:OP1	2.05	0.74
62:D3:1686:C:N3	62:D3:1715:G:N1	2.32	0.74
74:EK:930:VAL:O	74:EK:934:GLY:CA	2.35	0.74
9:UG:550:LEU:HD21	24:UV:805:ALA:HB1	1.68	0.74
13:UK:140:ARG:NH2	18:UP:166:LEU:O	2.21	0.74
29:CH:207:ARG:NH2	63:D4:246:A:OP2	2.21	0.74
62:D3:1042:G:N2	62:D3:1077:C:O2	2.20	0.74
3:UA:620:ASN:H	3:UA:626:THR:HG21	1.52	0.74
14:UL:553:ASN:HD22	14:UL:573:LYS:H	1.36	0.74
14:UL:771:ARG:HA	14:UL:774:LYS:HD2	1.68	0.74
22:UT:311:ILE:HD11	22:UT:343:ILE:HG23	1.68	0.74
22:UT:2185:ILE:HD11	22:UT:2216:TYR:HE1	1.53	0.74
23:UU:476:PHE:HD1	23:UU:486:ILE:HG12	1.50	0.74
36:JD:516:ASP:HA	36:JD:558:MET:HB2	1.70	0.74
62:D3:1554:U:O2'	62:D3:1556:A:N1	2.20	0.74
15:UM:433:HIS:NE2	15:UM:458:SER:HB2	2.03	0.74
22:UT:519:VAL:HA	22:UT:522:LEU:HD12	1.68	0.74
28:CG:50:GLU:OE1	28:CG:50:GLU:HA	1.85	0.74
1:CB:290:VAL:HG21	13:UK:136:PHE:HE2	1.53	0.74
16:UN:336:THR:HG23	16:UN:339:GLN:H	1.53	0.74
45:DE:104:ASP:HB2	45:DE:110:ALA:HB2	1.68	0.74
45:DE:212:ASP:O	45:DE:215:ASP:N	2.20	0.74
20:UR:414:ILE:HD11	20:UR:420:ARG:HB3	1.70	0.74
21:US:318:LEU:HD22	21:US:357:ARG:HH21	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CM:260:ASP:OD1	34:CM:261:ILE:N	2.19	0.74
22:UT:1050:MET:HE2	62:D3:130:C:H4'	1.70	0.74
63:D4:147:C:O2	63:D4:165:G:N2	2.19	0.74
14:UL:252:SER:OG	14:UL:276:ASN:ND2	2.21	0.73
36:JD:1013:MET:HE3	36:JD:1035:MET:HG2	1.68	0.73
16:UN:313:PHE:HE2	16:UN:883:ILE:HB	1.52	0.73
20:UR:459:GLN:NE2	20:UR:460:VAL:O	2.20	0.73
24:UV:389:GLY:N	24:UV:392:GLU:OE2	2.20	0.73
40:JL:280:LYS:HE3	40:JL:313:VAL:HG22	1.69	0.73
12:UJ:1768:LEU:HD22	22:UT:32:ARG:HH22	1.53	0.73
15:UM:620:LEU:HA	15:UM:636:ASP:HA	1.69	0.73
21:US:452:ASP:HB2	21:US:455:LEU:HB2	1.69	0.73
22:UT:394:LEU:HD23	22:UT:431:LYS:HG2	1.69	0.73
22:UT:590:MET:HE2	22:UT:703:PHE:HZ	1.51	0.73
24:UV:585:MET:HG3	24:UV:613:VAL:HG12	1.68	0.73
33:CL:831:ARG:NH2	33:CL:835:HIS:O	2.21	0.73
33:CL:844:PRO:HB2	33:CL:855:GLN:HE21	1.52	0.73
3:UA:269:HIS:NE2	3:UA:312:GLN:O	2.19	0.73
15:UM:413:ILE:HG13	15:UM:415:TRP:HE1	1.52	0.73
24:UV:1038:GLN:NE2	24:UV:1056:ILE:O	2.20	0.73
36:JD:1058:ILE:HG22	44:JJ:83:SER:HB2	1.70	0.73
74:EK:930:VAL:O	74:EK:934:GLY:N	2.19	0.73
22:UT:2086:ILE:O	22:UT:2090:ALA:HB2	1.88	0.73
62:D3:1495:C:N3	62:D3:1512:G:N1	2.31	0.73
15:UM:291:ILE:HD11	15:UM:307:SER:HA	1.71	0.73
15:UM:353:LEU:HD23	15:UM:365:ILE:HD11	1.70	0.73
22:UT:1012:ARG:HH12	49:DI:116:HIS:CD2	2.06	0.73
36:JD:484:LYS:NZ	36:JD:510:TYR:OH	2.21	0.73
6:UD:481:ILE:HB	6:UD:485:LYS:HG3	1.71	0.73
15:UM:30:LYS:HA	15:UM:45:LEU:O	1.88	0.73
19:UQ:266:ASN:HD22	19:UQ:307:HIS:HA	1.54	0.73
36:JD:595:ASN:OD1	36:JD:601:ASN:ND2	2.17	0.73
63:D4:264:C:O2	63:D4:307:G:N2	2.18	0.73
15:UM:241:GLN:HG3	15:UM:262:GLY:HA3	1.70	0.73
15:UM:460:ASP:OD1	15:UM:462:THR:OG1	2.06	0.73
22:UT:30:PRO:O	22:UT:33:ASN:C	2.32	0.73
22:UT:825:GLU:OE1	22:UT:828:ARG:NH2	2.20	0.73
22:UT:1012:ARG:O	22:UT:1068:PHE:HB3	1.89	0.73
22:UT:2213:PHE:HE2	22:UT:2235:ILE:HD11	1.54	0.73
22:UT:2469:ARG:HH21	62:D3:850:A:H61	1.37	0.73
24:UV:260:ASP:HB3	24:UV:378:ASN:HA	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UV:381:HIS:NE2	24:UV:478:THR:O	2.22	0.73
46:DF:189:THR:OG1	62:D3:1473:U:OP2	2.07	0.73
53:DO:70:LYS:O	53:DO:73:GLU:HB2	1.88	0.73
62:D3:706:A:H2	62:D3:732:G:H22	1.37	0.73
3:UA:77:GLY:CA	3:UA:95:PHE:O	2.23	0.73
12:UJ:277:ALA:HB2	20:UR:211:ILE:HD12	1.70	0.73
20:UR:429:TYR:HB2	28:CF:18:GLN:HE21	1.52	0.73
24:UV:125:GLU:OE2	24:UV:129:HIS:NE2	2.21	0.73
32:CK:529:ARG:NH1	62:D3:1754:A:C5	2.56	0.73
48:DH:67:LEU:HD22	48:DH:94:ALA:HB2	1.69	0.73
57:DW:24:GLN:OE1	57:DW:64:GLN:NE2	2.22	0.73
6:UD:743:PHE:HB3	6:UD:755:ILE:HD13	1.70	0.73
7:UE:140:PHE:HE1	7:UE:178:LYS:HE2	1.54	0.73
11:UI:508:ARG:HA	11:UI:511:LYS:HD2	1.70	0.73
21:US:414:ILE:O	21:US:418:ASN:ND2	2.21	0.73
55:DS:49:LYS:NZ	55:DS:79:TYR:O	2.20	0.73
57:DW:80:ASN:ND2	62:D3:747:C:O3'	2.22	0.73
10:UH:567:LEU:HD13	10:UH:602:LEU:HD12	1.71	0.72
22:UT:1205:ILE:HG22	22:UT:1211:ILE:HD13	1.71	0.72
29:CH:158:THR:HG23	29:CH:548:ARG:HB2	1.71	0.72
48:DH:49:ILE:HD11	48:DH:172:VAL:HG22	1.71	0.72
12:UJ:25:ARG:HD2	42:JP:14:VAL:HG12	1.70	0.72
14:UL:137:ILE:HG12	14:UL:147:VAL:HG22	1.69	0.72
14:UL:258:LYS:NZ	14:UL:273:TYR:OH	2.22	0.72
20:UR:253:SER:OG	20:UR:298:CYS:SG	2.47	0.72
22:UT:1877:ARG:HB2	22:UT:1917:ILE:HG22	1.71	0.72
60:Dc:32:PHE:HE2	60:Dc:38:ARG:NH2	1.86	0.72
62:D3:676:G:H2'	62:D3:677:G:H8	1.54	0.72
20:UR:181:GLU:OE1	23:UU:242:ARG:NH1	2.22	0.72
32:CK:414:GLU:OE2	44:JJ:176:ARG:NH2	2.23	0.72
6:UD:429:SER:HB3	6:UD:444:ARG:HA	1.70	0.72
9:UG:124:HIS:CD2	9:UG:163:GLU:HG2	2.24	0.72
17:UO:108:TYR:HB3	17:UO:117:LEU:H	1.55	0.72
20:UR:400:ILE:HB	20:UR:433:TRP:CZ3	2.24	0.72
23:UU:62:ASP:OD1	23:UU:64:ASN:N	2.21	0.72
29:CH:156:ASN:HA	29:CH:544:ALA:HB1	1.72	0.72
36:JD:466:LEU:HD22	36:JD:472:LYS:HZ3	1.55	0.72
48:DH:15:GLU:HA	48:DH:18:LEU:HD12	1.71	0.72
17:UO:166:GLY:O	17:UO:194:ARG:NH2	2.23	0.72
19:UQ:630:LEU:HB3	19:UQ:653:PHE:HB2	1.71	0.72
34:CM:306:GLU:HA	34:CM:356:GLY:O	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JL:290:LEU:HD21	40:JL:305:ARG:HH21	1.54	0.72
16:UN:321:HIS:HB2	26:CD:89:ALA:HA	1.71	0.72
31:CJ:75:ASP:OD1	31:CJ:76:GLU:N	2.22	0.72
33:CL:56:VAL:HG22	58:DX:52:ILE:HG12	1.71	0.72
43:Db:51:GLN:OE1	62:D3:957:G:N2	2.23	0.72
62:D3:1169:G:N1	62:D3:1575:G:OP2	2.22	0.72
1:CB:205:ARG:HG2	27:CE:152:LEU:HD13	1.72	0.72
19:UQ:435:ASP:O	19:UQ:762:TYR:OH	2.08	0.72
19:UQ:574:LEU:HG	19:UQ:584:PHE:HD1	1.54	0.72
22:UT:446:GLN:OE1	22:UT:449:ARG:NH2	2.23	0.72
33:CL:125:LEU:O	33:CL:129:ILE:HG13	1.89	0.72
34:CM:36:ILE:HG21	34:CM:45:LEU:HD23	1.71	0.72
59:DY:34:ASN:ND2	62:D3:521:A:N3	2.37	0.72
3:UA:780:LYS:NZ	3:UA:784:ASP:OD2	2.22	0.72
7:UE:271:LYS:NZ	23:UU:585:SER:O	2.22	0.72
22:UT:981:SER:HB2	22:UT:983:GLN:HE22	1.53	0.72
22:UT:1926:PHE:CE2	22:UT:1929:GLU:HG2	2.24	0.72
24:UV:719:THR:HG23	24:UV:723:ASN:HD22	1.53	0.72
41:JM:193:GLU:HA	41:JM:196:GLU:HG2	1.72	0.72
10:UH:642:LEU:HD22	11:UI:502:ARG:HD3	1.72	0.72
12:UJ:275:ILE:HD11	12:UJ:302:LEU:HB3	1.70	0.72
20:UR:257:HIS:CE1	20:UR:260:LYS:HG2	2.25	0.72
22:UT:318:LEU:HD22	22:UT:361:LEU:HD11	1.69	0.72
36:JD:855:LYS:HE2	36:JD:862:ILE:HD11	1.70	0.72
62:D3:389:G:H2'	62:D3:390:G:H5"	1.71	0.72
7:UE:299:ASP:O	7:UE:318:GLN:NE2	2.18	0.71
22:UT:977:PHE:O	22:UT:980:ASN:C	2.32	0.71
22:UT:2056:ARG:HA	22:UT:2059:LYS:HE3	1.72	0.71
31:CJ:144:GLU:OE1	31:CJ:147:GLY:N	2.23	0.71
50:DJ:171:ARG:NH2	62:D3:514:G:O6	2.21	0.71
14:UL:767:GLU:HG3	14:UL:771:ARG:HH21	1.56	0.71
20:UR:456:THR:OG1	20:UR:487:GLU:OE2	2.06	0.71
24:UV:181:PRO:HG2	24:UV:207:LEU:HD22	1.73	0.71
50:DJ:102:GLU:OE1	50:DJ:102:GLU:N	2.23	0.71
4:UB:561:ILE:HB	4:UB:564:VAL:HG12	1.70	0.71
6:UD:127:ASP:HB2	6:UD:134:LEU:HB2	1.73	0.71
22:UT:1766:PHE:HZ	22:UT:1800:LEU:HD21	1.55	0.71
36:JD:113:ILE:HA	36:JD:116:LYS:HG2	1.72	0.71
36:JD:884:GLN:NE2	36:JD:890:ASP:O	2.22	0.71
9:UG:379:GLU:N	9:UG:393:GLY:O	2.23	0.71
15:UM:602:TRP:HB3	15:UM:609:CYS:HA	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UM:750:ALA:N	62:D3:1638:G:O6	2.24	0.71
22:UT:1142:VAL:HG13	22:UT:1147:ILE:HD11	1.72	0.71
28:CG:25:GLN:NE2	29:CH:323:ASP:OD2	2.23	0.71
45:DE:153:ASN:OD1	47:DG:215:ARG:NH1	2.23	0.71
4:UB:701:ALA:HA	21:US:417:HIS:HB2	1.73	0.71
19:UQ:317:TRP:HE1	19:UQ:488:LEU:HD21	1.55	0.71
19:UQ:631:GLN:OE1	19:UQ:640:LYS:NZ	2.18	0.71
7:UE:101:THR:OG1	7:UE:103:ASN:OD1	2.06	0.71
31:CJ:100:LEU:HB2	31:CJ:144:GLU:HG2	1.72	0.71
36:JD:26:ILE:HD11	49:DI:17:LYS:HE2	1.71	0.71
24:UV:1027:LEU:HD21	24:UV:1037:LEU:HD23	1.73	0.71
42:JP:280:ALA:HB2	42:JP:311:VAL:HG13	1.72	0.71
62:D3:615:A:O2'	62:D3:621:A:N6	2.19	0.71
6:UD:272:LEU:HD21	20:UR:399:LYS:HD3	1.72	0.71
12:UJ:1658:ILE:HD11	12:UJ:1663:GLY:HA2	1.72	0.71
15:UM:15:ILE:HG22	15:UM:34:THR:HG21	1.72	0.71
22:UT:2167:VAL:HA	22:UT:2170:LYS:HD2	1.73	0.71
25:UX:152:ILE:HG22	25:UX:171:PRO:HG2	1.72	0.71
27:CE:318:GLN:OE1	63:D4:325:C:N4	2.23	0.71
31:CJ:146:ARG:NE	62:D3:1465:C:O2	2.21	0.71
34:CM:18:ARG:HD3	34:CM:98:TYR:CZ	2.26	0.71
40:JL:245:THR:HA	40:JL:248:MET:HE2	1.73	0.71
56:DT:109:GLU:OE1	56:DT:122:ARG:NH2	2.23	0.71
22:UT:1278:ARG:HH12	22:UT:1316:MET:HB3	1.54	0.71
23:UU:28:ARG:NH2	23:UU:383:ASP:OD2	2.23	0.71
57:DW:71:LYS:NZ	62:D3:1097:U:OP2	2.23	0.71
62:D3:1063:U:O2'	62:D3:1064:G:OP2	2.08	0.71
15:UM:537:TRP:HD1	15:UM:553:GLY:HA2	1.55	0.71
17:UO:487:LEU:HA	17:UO:490:LYS:HZ3	1.56	0.71
19:UQ:57:VAL:O	19:UQ:382:LYS:NZ	2.23	0.71
29:CH:419:ASN:ND2	29:CH:421:ASN:OD1	2.22	0.71
50:DJ:79:ARG:NH2	62:D3:762:A:OP1	2.24	0.71
9:UG:108:LEU:HD11	12:UJ:4:LEU:HD12	1.73	0.70
12:UJ:246:LEU:O	12:UJ:285:ASN:ND2	2.23	0.70
37:JG:73:HIS:HB2	37:JG:76:LEU:HB2	1.73	0.70
22:UT:1329:LYS:HA	22:UT:1332:ILE:HG12	1.73	0.70
34:CM:228:ASP:OD1	34:CM:230:TRP:NE1	2.24	0.70
22:UT:362:PHE:HD1	22:UT:381:LEU:HG	1.56	0.70
40:JL:230:VAL:HG13	40:JL:231:PHE:HD1	1.55	0.70
12:UJ:1626:LEU:HD23	12:UJ:1651:LEU:HD21	1.72	0.70
15:UM:490:HIS:ND1	15:UM:510:SER:OG	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:UQ:20:PRO:HA	19:UQ:48:PHE:HA	1.72	0.70
22:UT:1091:ILE:HG21	22:UT:1128:ALA:HB1	1.73	0.70
36:JD:1095:ARG:NH1	36:JD:1149:PRO:O	2.21	0.70
1:CB:91:HIS:HB3	1:CB:96:VAL:HG23	1.73	0.70
22:UT:1127:PHE:HZ	22:UT:1166:HIS:HB3	1.57	0.70
23:UU:894:ASP:OD1	23:UU:895:VAL:N	2.24	0.70
36:JD:872:ASP:OD2	36:JD:875:ALA:N	2.23	0.70
1:CB:294:ARG:HH21	18:UP:181:LEU:HD12	1.56	0.70
5:UC:603:THR:O	25:UX:43:ASN:ND2	2.25	0.70
12:UJ:1541:ASP:HA	12:UJ:1544:PHE:CE1	2.27	0.70
15:UM:224:ASP:HB2	15:UM:230:LYS:HZ1	1.57	0.70
26:CD:277:ARG:NH1	27:CE:264:GLU:OE1	2.20	0.70
27:CE:366:LYS:NZ	63:D4:82:G:OP1	2.21	0.70
36:JD:732:LEU:HD21	36:JD:746:VAL:HG12	1.73	0.70
1:CA:83:GLY:HA2	41:JM:169:ARG:NH1	2.06	0.70
12:UJ:1441:ILE:HA	12:UJ:1444:ILE:HD12	1.74	0.70
14:UL:46:LEU:HD13	14:UL:657:GLN:HE22	1.55	0.70
22:UT:408:VAL:O	22:UT:411:PHE:C	2.34	0.70
22:UT:2232:TRP:HA	22:UT:2235:ILE:HD12	1.73	0.70
27:CE:25:SER:HB3	27:CE:116:ILE:HD11	1.73	0.70
33:CL:609:GLU:HA	34:CM:18:ARG:HH12	1.56	0.70
3:UA:494:ASP:HB3	3:UA:496:THR:HG22	1.74	0.70
15:UM:690:HIS:NE2	32:CK:518:GLU:OE2	2.25	0.70
17:UO:86:SER:O	17:UO:98:ALA:HA	1.91	0.70
19:UQ:371:PHE:HB2	19:UQ:385:ILE:HG12	1.73	0.70
22:UT:977:PHE:O	22:UT:980:ASN:O	2.10	0.70
22:UT:1310:SER:OG	22:UT:1323:ARG:O	2.09	0.70
22:UT:1312:SER:OG	22:UT:1315:ARG:NH1	2.25	0.70
23:UU:595:PRO:HD3	23:UU:634:PHE:HD2	1.56	0.70
42:JP:231:GLU:OE2	42:JP:250:ARG:NH1	2.24	0.70
62:D3:63:G:O2'	62:D3:170:U:OP1	2.09	0.70
22:UT:215:VAL:HG21	22:UT:232:LEU:HD11	1.72	0.70
22:UT:2087:ILE:O	22:UT:2132:LYS:NZ	2.25	0.70
36:JD:103:HIS:HA	36:JD:106:LYS:HD2	1.73	0.70
36:JD:847:VAL:HA	36:JD:850:ILE:HG12	1.74	0.70
36:JD:1190:TYR:HB3	36:JD:1213:VAL:HG11	1.74	0.70
3:UA:382:THR:HG21	32:CK:477:GLU:HB3	1.73	0.70
3:UA:557:LYS:HG3	23:UU:423:ARG:HH12	1.54	0.70
6:UD:71:ARG:NH1	6:UD:77:GLU:OE2	2.25	0.70
13:UK:244:TRP:CE3	28:CF:31:ARG:NH1	2.60	0.70
22:UT:429:GLY:HA2	22:UT:432:ILE:HD12	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CL:549:ILE:O	33:CL:553:ILE:HG12	1.92	0.70
35:CN:55:LEU:HB3	35:CN:58:LEU:HD21	1.74	0.70
62:D3:21:U:H2'	62:D3:22:A:H8	1.57	0.70
24:UV:416:PHE:HB3	24:UV:420:GLN:HB2	1.74	0.69
30:CI:39:GLN:NE2	30:CI:43:ASP:HB2	2.07	0.69
31:CJ:157:PHE:O	31:CJ:159:HIS:N	2.25	0.69
37:JG:99:LEU:HD21	37:JG:238:CYS:HB2	1.72	0.69
37:JG:167:ILE:HG22	37:JG:171:LEU:HD12	1.73	0.69
6:UD:768:ALA:O	18:UP:214:GLY:N	2.24	0.69
10:UH:713:LEU:HD12	10:UH:717:THR:HG21	1.73	0.69
15:UM:406:ALA:HB2	15:UM:440:VAL:HG13	1.74	0.69
22:UT:1707:HIS:O	22:UT:1760:ASN:ND2	2.25	0.69
29:CH:180:LYS:NZ	63:D4:169:A:OP2	2.17	0.69
52:DN:136:PRO:HG2	52:DN:139:TRP:HB2	1.72	0.69
3:UA:482:SER:HB2	3:UA:487:VAL:HG22	1.73	0.69
4:UB:537:LEU:HD11	4:UB:635:VAL:HG11	1.73	0.69
12:UJ:1768:LEU:HD22	22:UT:32:ARG:NH2	2.08	0.69
19:UQ:567:VAL:HG11	19:UQ:615:TRP:HZ2	1.57	0.69
23:UU:242:ARG:HH22	23:UU:281:ARG:HG2	1.57	0.69
29:CH:545:LYS:NZ	63:D4:251:G:N7	2.39	0.69
36:JD:1042:ARG:HH12	36:JD:1064:ASN:HB2	1.57	0.69
42:JP:327:LYS:HG2	42:JP:350:HIS:H	1.57	0.69
44:JJ:129:ARG:HH21	44:JJ:131:ASN:HD21	1.39	0.69
46:DF:118:LEU:HA	46:DF:121:ILE:HD12	1.74	0.69
62:D3:676:G:H2'	62:D3:677:G:C8	2.27	0.69
15:UM:261:ALA:HB1	15:UM:290:ILE:HD13	1.74	0.69
24:UV:214:PHE:HE2	24:UV:299:PRO:HD2	1.57	0.69
24:UV:433:ASP:O	24:UV:457:TYR:OH	2.10	0.69
24:UV:749:SER:OG	24:UV:787:GLU:OE2	2.09	0.69
6:UD:448:THR:OG1	6:UD:470:LEU:O	2.09	0.69
15:UM:348:PRO:HD2	15:UM:419:GLU:HG3	1.75	0.69
22:UT:220:GLU:OE2	22:UT:268:PRO:HB3	1.93	0.69
30:CI:96:ASP:OD1	30:CI:97:LEU:N	2.25	0.69
31:CJ:278:ARG:HD3	62:D3:1596:C:H41	1.57	0.69
1:CA:144:TRP:HE1	1:CA:183:HIS:CG	2.11	0.69
15:UM:30:LYS:HZ1	15:UM:46:THR:HG23	1.58	0.69
20:UR:455:ILE:HA	20:UR:486:SER:HB3	1.73	0.69
21:US:427:GLN:HE22	21:US:432:VAL:HG22	1.57	0.69
22:UT:1084:ALA:O	22:UT:1088:LYS:HD2	1.92	0.69
24:UV:535:LYS:H	24:UV:538:ASN:HB3	1.58	0.69
33:CL:613:PRO:HB2	34:CM:291:ARG:NH2	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CM:282:GLU:O	34:CM:286:SER:HB3	1.93	0.69
36:JD:624:VAL:HG12	36:JD:777:VAL:HB	1.74	0.69
42:JP:347:ARG:O	42:JP:373:ARG:NH2	2.25	0.69
62:D3:1688:U:H3	62:D3:1713:G:H22	1.40	0.69
10:UH:295:TYR:HA	10:UH:302:LEU:HA	1.74	0.69
18:UP:195:GLU:HB3	18:UP:198:ILE:HG12	1.74	0.69
19:UQ:388:PRO:HG2	19:UQ:781:SER:HB3	1.74	0.69
20:UR:317:ARG:HA	20:UR:356:GLU:HG2	1.74	0.69
34:CM:214:LYS:HG2	34:CM:217:LYS:HZ1	1.57	0.69
41:JM:127:ARG:HA	41:JM:130:LEU:HD13	1.74	0.69
7:UE:317:LEU:HD13	7:UE:322:ILE:HD12	1.75	0.69
15:UM:194:ARG:HG2	15:UM:216:ARG:HB2	1.75	0.69
20:UR:181:GLU:OE2	23:UU:281:ARG:NH2	2.26	0.69
22:UT:575:MET:HE2	22:UT:611:GLN:HB2	1.75	0.69
22:UT:1699:LYS:NZ	62:D3:687:G:O3’	2.25	0.69
24:UV:539:LEU:HD13	24:UV:558:LEU:HD11	1.75	0.69
29:CH:245:SER:OG	29:CH:247:ASP:OD1	2.10	0.69
45:DE:106:LYS:HD3	45:DE:108:ARG:HH12	1.57	0.69
50:DJ:120:LYS:H	50:DJ:124:HIS:HD2	1.39	0.69
55:DS:24:GLY:HA2	55:DS:58:ALA:HB3	1.73	0.69
62:D3:1684:U:H3	62:D3:1717:G:H1	1.39	0.69
19:UQ:278:GLY:HA2	19:UQ:300:VAL:HG13	1.75	0.69
21:US:410:PRO:HA	21:US:413:MET:HE3	1.74	0.69
22:UT:1351:PHE:O	22:UT:1355:ILE:HD12	1.91	0.69
27:CE:298:ARG:HB3	27:CE:341:LEU:HD11	1.75	0.69
42:JP:388:THR:O	42:JP:392:ASN:ND2	2.26	0.69
62:D3:1594:G:HO2’	62:D3:1600:A:H61	1.41	0.69
63:D4:47:G:H2’	63:D4:48:A:C8	2.28	0.69
2:DA:18:LYS:HE2	15:UM:359:SER:HB2	1.75	0.69
19:UQ:502:LYS:HG3	19:UQ:564:PRO:HA	1.75	0.69
22:UT:1390:SER:HA	22:UT:1393:MET:SD	2.33	0.69
15:UM:739:LEU:HD23	15:UM:763:ILE:HD11	1.75	0.68
17:UO:122:ALA:HB2	17:UO:152:TRP:HH2	1.57	0.68
22:UT:92:VAL:HG13	22:UT:131:THR:HG21	1.75	0.68
22:UT:243:THR:OG1	22:UT:246:THR:O	2.10	0.68
22:UT:269:GLU:OE2	22:UT:313:ARG:NH2	2.25	0.68
28:CF:39:GLU:OE1	63:D4:82:G:N1	2.21	0.68
36:JD:485:GLU:H	36:JD:488:LYS:HZ2	1.39	0.68
37:JF:230:TYR:CD2	37:JG:106:LYS:HD3	2.26	0.68
37:JG:150:ILE:HB	37:JG:160:LEU:HB2	1.75	0.68
53:DO:20:TYR:HE1	53:DO:22:SER:HB2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UB:661:ILE:O	4:UB:665:GLN:N	2.26	0.68
4:UB:712:THR:HB	37:JG:129:ARG:HB2	1.75	0.68
6:UD:273:ASN:HB3	6:UD:319:ARG:NH1	2.07	0.68
9:UG:258:LEU:HB2	9:UG:268:VAL:HG12	1.76	0.68
15:UM:743:CYS:HG	15:UM:759:THR:HG1	1.36	0.68
17:UO:504:ILE:HA	17:UO:507:MET:SD	2.32	0.68
19:UQ:151:TYR:HB2	19:UQ:176:LEU:HB2	1.74	0.68
19:UQ:266:ASN:ND2	19:UQ:307:HIS:HA	2.08	0.68
19:UQ:440:VAL:HB	19:UQ:765:TRP:CE2	2.28	0.68
22:UT:1101:GLN:HG3	22:UT:1102:PRO:HD2	1.74	0.68
23:UU:86:HIS:HB2	23:UU:123:ILE:HD11	1.76	0.68
31:CJ:278:ARG:NH1	62:D3:563:U:O3'	2.27	0.68
36:JD:734:LEU:HD23	36:JD:758:ILE:HG23	1.74	0.68
37:JG:177:LYS:HB3	37:JG:221:VAL:HA	1.75	0.68
3:UA:563:ARG:HD3	3:UA:630:LEU:HG	1.76	0.68
7:UE:355:ASN:HB3	19:UQ:479:ASN:HD21	1.59	0.68
15:UM:430:TYR:CE2	15:UM:466:TRP:HB3	2.29	0.68
19:UQ:334:LEU:HD21	19:UQ:379:LEU:HD13	1.74	0.68
29:CH:298:SER:OG	29:CH:325:VAL:O	2.11	0.68
4:UB:52:ARG:NH2	32:CK:363:GLU:OE1	2.27	0.68
6:UD:570:ILE:HA	6:UD:586:THR:HG22	1.75	0.68
6:UD:656:ARG:HH22	10:UH:723:ILE:HG12	1.57	0.68
8:UF:167:ILE:HD11	16:UN:327:PHE:HD1	1.57	0.68
14:UL:10:GLN:OE1	14:UL:682:ARG:NH1	2.26	0.68
20:UR:568:VAL:HG12	20:UR:579:VAL:HG22	1.73	0.68
23:UU:159:VAL:HG21	23:UU:167:ILE:HD11	1.76	0.68
23:UU:176:TYR:HB3	23:UU:179:LYS:HB2	1.75	0.68
31:CJ:282:ARG:NH2	62:D3:560:U:OP2	2.27	0.68
33:CL:193:ARG:NH2	33:CL:197:GLU:OE2	2.27	0.68
33:CL:608:LEU:HB3	34:CM:16:ASN:HB3	1.74	0.68
33:CL:880:TYR:HB2	58:DX:94:ASN:ND2	2.08	0.68
36:JD:885:TYR:HE1	36:JD:1187:LEU:HB2	1.57	0.68
6:UD:199:ASP:HA	6:UD:215:ALA:O	1.94	0.68
15:UM:537:TRP:CD1	15:UM:553:GLY:HA2	2.28	0.68
17:UO:493:HIS:HE1	17:UO:497:LYS:HE3	1.58	0.68
21:US:174:ASN:HD21	21:US:218:LYS:HE3	1.58	0.68
22:UT:1655:ARG:HE	22:UT:1693:THR:HG22	1.57	0.68
22:UT:2146:ALA:HB2	22:UT:2164:THR:HG21	1.75	0.68
24:UV:313:ASN:ND2	24:UV:327:PRO:O	2.24	0.68
24:UV:523:TYR:HD2	24:UV:616:LYS:HG2	1.58	0.68
30:CI:114:ILE:HD12	30:CI:117:ARG:HH11	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:JF:48:ALA:HB3	37:JF:116:THR:HA	1.75	0.68
1:CA:171:LEU:HB2	1:CA:237:VAL:HG11	1.74	0.68
3:UA:467:ASP:OD1	3:UA:468:ALA:N	2.26	0.68
1:CB:155:ILE:HD11	1:CB:162:LEU:HD13	1.75	0.68
15:UM:29:GLY:O	15:UM:45:LEU:HB2	1.94	0.68
17:UO:391:ASN:ND2	17:UO:403:ASN:OD1	2.27	0.68
22:UT:1074:ASP:OD1	22:UT:1076:SER:N	2.26	0.68
22:UT:1960:LEU:HD21	22:UT:1999:ALA:HA	1.74	0.68
32:CK:335:ARG:NH2	33:CL:957:GLU:OE2	2.27	0.68
33:CL:246:ALA:HB3	33:CL:810:ILE:HG13	1.75	0.68
37:JG:122:ILE:HG12	37:JG:162:VAL:HG22	1.76	0.68
1:CB:251:ARG:HH12	1:CB:255:LEU:HG	1.59	0.68
6:UD:450:VAL:HG13	6:UD:465:LEU:HB2	1.76	0.68
9:UG:240:GLN:HB3	9:UG:247:MET:HE1	1.76	0.68
24:UV:928:HIS:NE2	24:UV:1163:LEU:O	2.22	0.68
30:CI:99:ASN:OD1	30:CI:100:LYS:N	2.27	0.68
52:DN:142:GLU:H	52:DN:145:THR:HB	1.58	0.68
1:CB:107:VAL:HG21	1:CB:141:TYR:HB3	1.73	0.68
1:CB:144:TRP:CE2	1:CB:183:HIS:HB3	2.29	0.68
9:UG:289:MET:HB2	9:UG:303:ILE:HD11	1.75	0.68
19:UQ:559:LYS:HB3	19:UQ:576:ALA:HB3	1.74	0.68
22:UT:590:MET:HE2	22:UT:703:PHE:CZ	2.29	0.68
33:CL:1052:SER:O	62:D3:575:C:N4	2.26	0.68
40:JL:215:ARG:HH11	40:JL:217:GLN:HA	1.57	0.68
3:UA:210:SER:OG	3:UA:211:LYS:N	2.25	0.68
14:UL:480:ASP:OD1	14:UL:481:LEU:N	2.27	0.68
23:UU:579:ARG:NH1	23:UU:615:PRO:O	2.26	0.68
27:CE:215:ARG:NH1	27:CE:242:SER:OG	2.27	0.68
50:DJ:127:VAL:HG13	50:DJ:131:GLN:HE21	1.59	0.68
3:UA:283:GLU:OE1	3:UA:297:GLN:NE2	2.25	0.68
3:UA:415:ASP:OD1	3:UA:416:LEU:N	2.27	0.68
3:UA:721:VAL:O	23:UU:579:ARG:NH2	2.27	0.68
9:UG:82:LYS:H	9:UG:85:LYS:HD2	1.58	0.68
15:UM:304:LEU:HB2	15:UM:312:GLN:HB2	1.76	0.68
30:CI:115:MET:SD	30:CI:131:ILE:HD11	2.34	0.68
36:JD:592:ILE:O	36:JD:597:ARG:NH2	2.27	0.68
6:UD:130:THR:HG23	6:UD:132:LEU:H	1.58	0.67
8:UF:67:ARG:NH1	8:UF:84:SER:OG	2.26	0.67
20:UR:130:ASP:OD1	23:UU:194:ARG:NH2	2.26	0.67
22:UT:915:ALA:O	22:UT:918:GLU:HG2	1.94	0.67
23:UU:641:LEU:HB3	23:UU:654:TRP:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CN:17:PRO:HB2	35:CN:34:LEU:HD22	1.74	0.67
1:CB:195:TYR:HA	1:CB:218:ILE:HG22	1.76	0.67
19:UQ:694:LEU:O	19:UQ:698:VAL:O	2.11	0.67
20:UR:464:THR:HG21	20:UR:476:ILE:HA	1.75	0.67
20:UR:520:ASN:HB2	20:UR:533:ALA:HB3	1.76	0.67
25:UX:14:LYS:NZ	31:CJ:272:ASP:OD2	2.22	0.67
28:CG:22:ASP:OD1	29:CH:342:ARG:HD2	1.94	0.67
36:JD:808:GLN:O	36:JD:812:ARG:HD3	1.94	0.67
58:DX:3:LYS:HD3	58:DX:7:ARG:HH22	1.59	0.67
2:DA:104:ASP:OD2	2:DA:105:PHE:N	2.28	0.67
8:UF:12:ILE:HG21	9:UG:62:ALA:HB1	1.77	0.67
16:UN:791:TRP:CD1	16:UN:791:TRP:H	2.10	0.67
17:UO:31:THR:O	17:UO:331:THR:O	2.12	0.67
17:UO:375:HIS:CG	20:UR:339:ILE:HD11	2.29	0.67
24:UV:856:THR:HG22	24:UV:858:ARG:H	1.59	0.67
62:D3:1477:G:H2'	62:D3:1478:G:H8	1.57	0.67
6:UD:426:GLN:NE2	6:UD:427:ASN:OD1	2.28	0.67
6:UD:573:VAL:HG22	6:UD:584:VAL:HG12	1.75	0.67
8:UF:182:TRP:CG	8:UF:277:CYS:HG	2.12	0.67
15:UM:364:ILE:HB	15:UM:382:GLU:HB2	1.76	0.67
15:UM:494:ILE:HA	15:UM:510:SER:HA	1.76	0.67
16:UN:781:ASP:OD2	16:UN:814:GLY:N	2.28	0.67
22:UT:1645:SER:OG	22:UT:1646:LYS:N	2.27	0.67
23:UU:916:HIS:O	23:UU:919:GLU:HG3	1.94	0.67
24:UV:1103:ARG:HG2	24:UV:1232:ILE:HG13	1.76	0.67
36:JD:1001:SER:OG	36:JD:1170:LEU:O	2.11	0.67
52:DN:64:ARG:NH2	62:D3:861:U:OP2	2.27	0.67
1:CA:82:GLY:O	41:JM:169:ARG:NH2	2.25	0.67
6:UD:443:GLY:HA2	6:UD:448:THR:HG22	1.75	0.67
6:UD:531:ILE:HA	6:UD:545:ARG:HG2	1.77	0.67
12:UJ:1520:THR:HA	12:UJ:1523:ARG:HE	1.59	0.67
15:UM:691:PRO:HD2	32:CK:516:SER:OG	1.94	0.67
16:UN:333:VAL:O	16:UN:335:GLN:NE2	2.28	0.67
17:UO:360:MET:HE2	17:UO:361:MET:HE3	1.75	0.67
20:UR:303:SER:OG	20:UR:309:GLN:OE1	2.10	0.67
22:UT:264:THR:O	22:UT:313:ARG:NH1	2.26	0.67
22:UT:1325:LEU:HD22	22:UT:2435:GLN:HG2	1.76	0.67
23:UU:241:ILE:HG22	23:UU:242:ARG:HG3	1.76	0.67
31:CJ:150:THR:HA	31:CJ:167:LEU:O	1.95	0.67
42:JP:48:THR:HG21	42:JP:410:ILE:HG23	1.77	0.67
6:UD:212:ILE:HB	6:UD:227:HIS:HB2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UE:366:GLY:O	19:UQ:583:LYS:NZ	2.28	0.67
11:UI:504:GLU:OE1	11:UI:507:ARG:NH1	2.28	0.67
12:UJ:575:SER:HB3	12:UJ:578:VAL:HG22	1.76	0.67
17:UO:150:ARG:HB3	17:UO:152:TRP:NE1	2.10	0.67
17:UO:258:LEU:HD21	17:UO:272:LEU:HD11	1.76	0.67
22:UT:201:ARG:HD3	22:UT:248:HIS:NE2	2.10	0.67
33:CL:1126:LYS:NZ	62:D3:487:G:OP1	2.27	0.67
62:D3:777:C:H3'	62:D3:778:G:H21	1.60	0.67
62:D3:1131:A:H2'	62:D3:1132:A:H8	1.59	0.67
62:D3:1537:C:N4	62:D3:1570:A:OP1	2.28	0.67
19:UQ:765:TRP:HB3	19:UQ:777:LEU:HD12	1.77	0.67
22:UT:30:PRO:HA	22:UT:33:ASN:HB3	1.74	0.67
22:UT:2430:TYR:O	22:UT:2434:LYS:HG2	1.94	0.67
22:UT:2438:LEU:HA	22:UT:2441:ARG:HG2	1.76	0.67
36:JD:408:ASP:HB2	36:JD:551:LYS:HD2	1.76	0.67
48:DH:27:LEU:HD21	48:DH:34:LEU:HD22	1.77	0.67
62:D3:92:A:OP1	62:D3:398:G:N2	2.27	0.67
3:UA:506:SER:OG	62:D3:1616:G:OP2	2.12	0.67
7:UE:453:LEU:HB3	7:UE:487:ARG:HH12	1.59	0.67
22:UT:1158:ILE:HD11	22:UT:1174:ILE:HG21	1.77	0.67
27:CE:323:GLU:OE2	63:D4:324:U:N3	2.18	0.67
33:CL:298:VAL:HG12	33:CL:793:PHE:HE1	1.58	0.67
54:DQ:71:GLY:HA2	62:D3:1483:A:H4'	1.76	0.67
1:CA:228:GLN:HG3	1:CA:259:MET:HE1	1.77	0.67
13:UK:230:LYS:HG2	13:UK:244:TRP:CD1	2.29	0.67
17:UO:114:ARG:NH2	62:D3:1534:G:N7	2.43	0.67
22:UT:201:ARG:NH1	22:UT:242:SER:OG	2.27	0.67
24:UV:1103:ARG:HH22	24:UV:1105:PRO:HA	1.59	0.67
27:CE:28:LEU:HD13	27:CE:33:ASP:HB2	1.77	0.67
28:CG:39:GLU:OE1	63:D4:256:G:N1	2.27	0.67
30:CI:38:ILE:HD11	30:CI:44:TYR:HB2	1.77	0.67
30:CI:56:ARG:NH2	32:CK:440:LEU:HD11	2.09	0.67
36:JD:439:PRO:HD2	36:JD:442:PRO:HG2	1.76	0.67
37:JG:178:VAL:HG12	37:JG:223:GLU:HG3	1.77	0.67
52:DN:73:ARG:NH2	62:D3:855:A:O3'	2.28	0.67
1:CA:110:ASN:OD1	1:CA:111:MET:N	2.28	0.67
1:CA:171:LEU:HB3	1:CA:240:VAL:HG12	1.77	0.67
33:CL:33:VAL:HG22	33:CL:34:ALA:H	1.60	0.67
50:DJ:162:SER:OG	50:DJ:165:GLY:N	2.26	0.67
58:DX:89:ASN:O	58:DX:92:CYS:N	2.28	0.67
3:UA:168:LEU:HD21	3:UA:192:ASP:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UK:161:ARG:NH1	13:UK:164:ASN:O	2.26	0.66
14:UL:386:GLU:HG3	14:UL:391:ARG:HE	1.59	0.66
15:UM:111:ASP:OD2	15:UM:112:SER:N	2.28	0.66
17:UO:217:ASN:HB2	17:UO:229:CYS:HB3	1.76	0.66
19:UQ:363:ASN:HD21	19:UQ:391:VAL:HA	1.60	0.66
22:UT:2448:ARG:HH22	62:D3:826:U:H5'	1.59	0.66
23:UU:379:SER:HB2	23:UU:385:GLN:HB2	1.76	0.66
26:CD:257:ILE:O	27:CE:138:LYS:NZ	2.27	0.66
62:D3:868:G:H1	62:D3:960:U:H3	1.43	0.66
1:CA:116:SER:HB3	1:CA:122:ARG:HD3	1.76	0.66
2:DA:128:LYS:NZ	2:DA:129:THR:O	2.23	0.66
9:UG:284:ARG:NH2	9:UG:408:GLU:OE1	2.29	0.66
15:UM:506:PHE:O	15:UM:517:ILE:HA	1.95	0.66
17:UO:461:ASP:HB3	19:UQ:519:LEU:HD11	1.77	0.66
19:UQ:640:LYS:HD2	19:UQ:651:SER:HB3	1.76	0.66
22:UT:1325:LEU:HA	22:UT:1328:PHE:CD2	2.30	0.66
50:DJ:176:ASN:ND2	62:D3:511:A:OP2	2.27	0.66
6:UD:62:PRO:HG2	6:UD:65:LEU:HB2	1.77	0.66
7:UE:548:ASP:HA	7:UE:551:ILE:HD12	1.75	0.66
8:UF:46:ARG:NH1	63:D4:39:C:O2	2.27	0.66
12:UJ:364:ASN:OD1	12:UJ:365:ILE:HD12	1.94	0.66
12:UJ:690:GLU:HG3	12:UJ:694:HIS:HE1	1.60	0.66
31:CJ:182:GLN:NE2	31:CJ:235:GLN:OE1	2.27	0.66
1:CA:236:MET:HG3	26:CD:133:LEU:HA	1.78	0.66
3:UA:567:ASP:OD1	30:CI:144:ASN:ND2	2.28	0.66
1:CB:182:SER:O	1:CB:214:ARG:NH1	2.29	0.66
4:UB:713:HIS:ND1	37:JG:154:ASN:OD1	2.28	0.66
12:UJ:407:PHE:O	12:UJ:410:ILE:O	2.13	0.66
17:UO:31:THR:C	17:UO:331:THR:O	2.38	0.66
22:UT:117:LEU:HD12	22:UT:120:ASP:HB2	1.77	0.66
22:UT:706:LEU:HD21	22:UT:770:TYR:CG	2.30	0.66
22:UT:2030:ASN:HD22	22:UT:2035:ILE:HG21	1.61	0.66
24:UV:932:GLU:OE1	24:UV:932:GLU:N	2.28	0.66
26:CD:267:ASP:OD1	27:CE:275:TYR:OH	2.06	0.66
36:JD:1091:HIS:HB3	36:JD:1154:TYR:CZ	2.29	0.66
1:CA:228:GLN:O	1:CA:231:ARG:NH2	2.29	0.66
4:UB:440:ASN:HD21	4:UB:442:LEU:HG	1.61	0.66
12:UJ:1544:PHE:HA	12:UJ:1547:LEU:HD13	1.78	0.66
19:UQ:677:THR:OG1	19:UQ:692:PHE:O	2.13	0.66
26:CD:226:LYS:NZ	26:CD:260:GLY:O	2.27	0.66
3:UA:608:ASN:HB2	23:UU:513:MET:HE3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UG:283:ASP:OD1	9:UG:284:ARG:N	2.29	0.66
12:UJ:560:ILE:HB	12:UJ:563:LEU:HB2	1.77	0.66
12:UJ:1607:ARG:HE	12:UJ:1612:ASP:HB2	1.60	0.66
13:UK:105:ASN:OD1	13:UK:108:ARG:NH1	2.27	0.66
15:UM:122:THR:HA	15:UM:146:THR:HG23	1.77	0.66
18:UP:195:GLU:OE1	18:UP:198:ILE:N	2.20	0.66
19:UQ:430:LYS:HE2	61:D2:69:U:H4'	1.77	0.66
22:UT:1399:LEU:HA	22:UT:1402:ILE:HD12	1.77	0.66
23:UU:428:GLU:OE2	23:UU:452:ARG:NH2	2.29	0.66
49:DI:87:ASN:OD1	62:D3:341:A:O2'	2.14	0.66
63:D4:160:G:H2'	63:D4:161:G:C8	2.30	0.66
1:CA:145:ASN:HD21	5:UC:591:TYR:HB2	1.59	0.66
1:CA:189:GLY:O	1:CA:216:ASN:ND2	2.29	0.66
12:UJ:268:LEU:HD12	12:UJ:269:PRO:HD2	1.77	0.66
19:UQ:37:LEU:HD21	19:UQ:41:GLN:HA	1.76	0.66
24:UV:531:LEU:HB3	24:UV:533:LEU:HD23	1.77	0.66
27:CE:416:ALA:HB3	61:D2:289:U:H1'	1.77	0.66
42:JP:256:GLN:HG2	42:JP:257:LYS:H	1.59	0.66
62:D3:887:A:N6	62:D3:924:A:H61	1.93	0.66
1:CB:308:PRO:HG2	13:UK:130:SER:H	1.61	0.66
12:UJ:32:SER:OG	12:UJ:119:GLU:OE2	2.10	0.66
14:UL:339:LYS:HB2	14:UL:356:THR:HG23	1.78	0.66
15:UM:16:TYR:OH	15:UM:21:ALA:O	2.07	0.66
20:UR:434:GLU:O	20:UR:444:ILE:N	2.29	0.66
22:UT:33:ASN:OD1	22:UT:34:LEU:N	2.27	0.66
24:UV:434:LEU:N	24:UV:485:TYR:OH	2.28	0.66
27:CE:195:LEU:HA	27:CE:198:ILE:HG22	1.78	0.66
28:CF:38:ASN:ND2	63:D4:82:G:N7	2.44	0.66
33:CL:1142:LEU:HD21	62:D3:493:U:H4'	1.78	0.66
37:JF:80:MET:HE1	37:JF:82:ARG:HB2	1.78	0.66
57:DW:77:PRO:O	57:DW:79:PHE:N	2.29	0.66
3:UA:491:ALA:HB1	3:UA:518:VAL:HG21	1.78	0.66
8:UF:173:ARG:NH2	26:CD:83:ASP:OD1	2.24	0.66
12:UJ:266:THR:HG21	19:UQ:895:LEU:HD21	1.78	0.66
14:UL:42:ILE:HG12	14:UL:51:ILE:HG22	1.78	0.66
15:UM:30:LYS:O	15:UM:44:ASP:HA	1.96	0.66
24:UV:865:ARG:NH2	62:D3:1060:U:OP2	2.28	0.66
26:CD:88:LYS:NZ	26:CD:89:ALA:O	2.23	0.66
41:JM:133:LYS:NZ	62:D3:486:G:O6	2.29	0.66
1:CB:234:ILE:HG13	1:CB:260:PHE:CE1	2.31	0.66
9:UG:241:ASN:O	9:UG:245:ALA:N	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:UI:482:LEU:O	11:UI:486:LEU:HG	1.96	0.66
13:UK:57:GLU:OE1	31:CJ:10:ARG:NH1	2.29	0.66
15:UM:167:ASP:OD1	15:UM:168:THR:N	2.27	0.66
22:UT:674:PHE:CD2	22:UT:676:PRO:HD2	2.31	0.66
22:UT:1296:PRO:O	22:UT:1297:GLU:HG3	1.96	0.66
22:UT:1926:PHE:CD2	22:UT:1929:GLU:HG2	2.31	0.66
23:UU:135:ASN:HD22	23:UU:167:ILE:HG12	1.61	0.66
33:CL:1104:GLY:H	33:CL:1107:LYS:NZ	1.94	0.66
36:JD:621:ALA:HB3	36:JD:773:VAL:HA	1.76	0.66
36:JD:1147:MET:HE2	36:JD:1149:PRO:HD2	1.79	0.66
54:DQ:37:THR:O	54:DQ:45:ARG:NH1	2.29	0.66
62:D3:23:G:H2'	62:D3:24:U:C6	2.31	0.66
6:UD:95:LYS:O	18:UP:193:LYS:NZ	2.23	0.65
6:UD:269:PHE:O	20:UR:446:ARG:NH1	2.29	0.65
15:UM:586:LYS:NZ	15:UM:646:ASP:OD2	2.26	0.65
17:UO:195:LEU:O	17:UO:206:ILE:N	2.29	0.65
22:UT:114:CYS:O	22:UT:117:LEU:O	2.13	0.65
22:UT:2180:LEU:HD23	22:UT:2183:LEU:HD21	1.78	0.65
23:UU:135:ASN:HD21	23:UU:166:GLU:HA	1.61	0.65
24:UV:755:PRO:HA	24:UV:782:VAL:HG12	1.76	0.65
27:CE:309:LEU:HG	27:CE:371:LEU:HD21	1.75	0.65
31:CJ:88:ILE:HG22	31:CJ:138:ASP:OD1	1.95	0.65
35:CN:188:MET:O	35:CN:192:GLU:HG2	1.96	0.65
36:JD:784:GLU:OE2	36:JD:844:ARG:NH1	2.29	0.65
41:JM:144:PRO:HG2	41:JM:147:PHE:HD2	1.61	0.65
44:JJ:99:ILE:HD11	44:JJ:159:ILE:HB	1.78	0.65
44:JJ:185:PHE:CZ	44:JJ:231:ILE:HD11	2.31	0.65
58:DX:65:ASN:ND2	62:D3:571:G:OP1	2.28	0.65
2:DA:180:THR:O	2:DA:184:LEU:N	2.28	0.65
12:UJ:75:SER:O	12:UJ:78:SER:OG	2.11	0.65
22:UT:981:SER:O	22:UT:982:HIS:ND1	2.29	0.65
27:CE:404:ARG:HD2	63:D4:331:A:H4'	1.78	0.65
28:CF:64:LEU:HD23	28:CF:64:LEU:H	1.61	0.65
31:CJ:241:THR:N	31:CJ:244:GLY:O	2.30	0.65
33:CL:269:VAL:O	33:CL:792:VAL:HA	1.96	0.65
35:CN:261:GLN:O	35:CN:265:ARG:HG3	1.96	0.65
36:JD:927:ILE:HG13	36:JD:1083:MET:HE1	1.78	0.65
42:JP:109:HIS:HD2	42:JP:113:VAL:HG12	1.60	0.65
44:JJ:117:TYR:CD1	44:JJ:118:PRO:HD3	2.31	0.65
63:D4:46:U:H2'	63:D4:47:G:H8	1.58	0.65
15:UM:123:ASP:OD2	15:UM:125:SER:OG	2.13	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:UQ:157:PHE:O	19:UQ:169:GLN:NE2	2.29	0.65
47:DG:176:GLN:HG2	62:D3:169:A:H5"	1.77	0.65
1:CA:155:ILE:HD11	1:CA:162:LEU:HD22	1.77	0.65
17:UO:246:TYR:HB3	17:UO:248:ARG:HH12	1.61	0.65
17:UO:357:PHE:HA	17:UO:360:MET:HG2	1.77	0.65
19:UQ:593:ASN:OD1	19:UQ:594:TRP:N	2.30	0.65
20:UR:445:ARG:NH2	20:UR:500:MET:O	2.29	0.65
21:US:180:PHE:O	21:US:184:TYR:HB3	1.96	0.65
21:US:277:ILE:HA	21:US:280:ILE:HG22	1.78	0.65
23:UU:64:ASN:HA	27:CE:421:MET:HE1	1.78	0.65
24:UV:894:ARG:NH2	24:UV:1045:ASN:O	2.29	0.65
26:CD:277:ARG:NH2	26:CD:280:SER:OG	2.29	0.65
35:CN:74:LEU:HD12	35:CN:140:ALA:HB1	1.78	0.65
6:UD:183:LEU:HD22	6:UD:223:GLY:HA2	1.77	0.65
12:UJ:1352:LEU:HD11	12:UJ:1396:LEU:HA	1.78	0.65
14:UL:230:LYS:H	14:UL:243:THR:HG22	1.62	0.65
15:UM:675:LYS:NZ	15:UM:677:ASP:OD2	2.29	0.65
22:UT:952:VAL:O	22:UT:955:ASN:ND2	2.29	0.65
24:UV:801:LYS:NZ	24:UV:836:GLU:OE1	2.29	0.65
29:CH:551:ARG:O	29:CH:553:ILE:N	2.28	0.65
54:DQ:13:LYS:HG3	54:DQ:14:LYS:H	1.62	0.65
1:CA:142:ARG:NH1	1:CA:186:ASP:OD2	2.30	0.65
9:UG:50:ASP:OD1	9:UG:54:LYS:NZ	2.30	0.65
12:UJ:638:SER:HB3	12:UJ:676:LYS:HD3	1.79	0.65
20:UR:129:ASP:HA	20:UR:132:LYS:HG2	1.78	0.65
22:UT:2425:ASP:OD1	22:UT:2426:PHE:N	2.28	0.65
23:UU:303:PHE:HE2	23:UU:310:ILE:HD12	1.61	0.65
24:UV:1206:PRO:HA	24:UV:1212:VAL:HA	1.78	0.65
62:D3:1686:C:N4	62:D3:1715:G:O6	2.20	0.65
1:CA:144:TRP:NE1	1:CA:183:HIS:CG	2.64	0.65
2:DA:127:VAL:HG21	2:DA:176:VAL:HG21	1.79	0.65
6:UD:589:ASN:ND2	6:UD:626:TRP:O	2.29	0.65
6:UD:614:TRP:NE1	6:UD:662:ASP:OD1	2.30	0.65
12:UJ:1355:ILE:HG23	12:UJ:1403:LEU:HD23	1.78	0.65
15:UM:294:LEU:HB2	15:UM:303:PHE:HB2	1.79	0.65
19:UQ:426:ARG:NH1	61:D2:68:U:OP2	2.29	0.65
19:UQ:665:ILE:HG22	19:UQ:669:ASN:HB2	1.78	0.65
36:JD:762:ASN:HA	36:JD:765:GLU:HB3	1.79	0.65
40:JL:75:LEU:HD21	40:JL:107:LEU:HD13	1.77	0.65
47:DG:59:GLN:OE1	47:DG:72:ARG:NH1	2.30	0.65
50:DJ:150:LEU:O	50:DJ:153:GLU:HG3	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:D2:286:U:H2'	61:D2:287:G:H8	1.60	0.65
8:UF:145:ASP:OD1	41:JM:67:THR:OG1	2.14	0.65
12:UJ:1705:LEU:HG	12:UJ:1709:ARG:HH12	1.62	0.65
27:CE:196:ALA:HA	27:CE:205:TYR:HE2	1.60	0.65
33:CL:1106:GLU:OE1	33:CL:1110:ARG:NE	2.30	0.65
41:JM:163:ARG:HH12	63:D4:312:U:H5"	1.62	0.65
42:JP:393:LYS:HE2	63:D4:36:C:H5'	1.77	0.65
51:DL:73:GLY:HA3	51:DL:86:ILE:HD12	1.79	0.65
56:DT:92:LYS:HD3	56:DT:93:HIS:H	1.61	0.65
62:D3:1662:G:H2'	62:D3:1663:G:H8	1.62	0.65
6:UD:206:SER:HA	6:UD:240:LEU:HB2	1.79	0.65
14:UL:629:ASN:ND2	14:UL:643:ASP:OD2	2.29	0.65
14:UL:771:ARG:HG3	14:UL:774:LYS:HZ2	1.62	0.65
17:UO:165:THR:HG22	17:UO:166:GLY:H	1.61	0.65
22:UT:636:ARG:NH2	62:D3:165:G:O3'	2.29	0.65
23:UU:600:ILE:HG13	23:UU:614:LEU:HD21	1.79	0.65
24:UV:348:TYR:HA	24:UV:351:LYS:HE2	1.79	0.65
27:CE:286:ASN:OD1	27:CE:387:GLY:N	2.23	0.65
40:JL:230:VAL:HG23	40:JL:238:ILE:HD13	1.79	0.65
48:DH:91:ILE:HG21	48:DH:129:LEU:HD23	1.78	0.65
50:DJ:5:PRO:HB3	62:D3:380:U:C4	2.32	0.65
62:D3:196:G:O2'	62:D3:197:A:H8	1.80	0.65
62:D3:621:A:HO2'	62:D3:1106:U:HO2'	1.45	0.65
3:UA:431:ILE:HD11	3:UA:451:ASP:HB2	1.77	0.65
6:UD:150:ASN:HD21	6:UD:154:ASP:HB2	1.61	0.65
12:UJ:1380:LEU:HD22	12:UJ:1403:LEU:HD11	1.79	0.65
14:UL:261:PHE:HD1	14:UL:272:PHE:HB3	1.62	0.65
15:UM:155:GLN:HB2	15:UM:158:SER:HB3	1.79	0.65
3:UA:117:ARG:NH1	3:UA:146:PHE:O	2.30	0.64
4:UB:668:LEU:HD12	4:UB:681:PRO:HB3	1.79	0.64
6:UD:579:ARG:NH2	6:UD:659:PHE:O	2.30	0.64
15:UM:490:HIS:HE2	15:UM:516:LYS:HG2	1.62	0.64
22:UT:229:TYR:OH	22:UT:277:ASP:OD2	2.14	0.64
22:UT:408:VAL:O	22:UT:411:PHE:O	2.13	0.64
22:UT:718:PRO:HG2	22:UT:755:THR:HG22	1.79	0.64
49:DI:45:SER:OG	49:DI:53:LYS:NZ	2.30	0.64
52:DN:11:ILE:HG13	52:DN:11:ILE:O	1.97	0.64
13:UK:42:HIS:NE2	62:D3:564:G:O6	2.29	0.64
13:UK:109:THR:O	13:UK:113:ILE:HG13	1.97	0.64
15:UM:563:ASP:OD1	15:UM:564:THR:N	2.28	0.64
15:UM:617:ASN:OD1	15:UM:618:ASN:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:UO:65:ILE:HB	17:UO:75:LYS:HB2	1.80	0.64
22:UT:1489:ILE:HG23	22:UT:1507:THR:HG23	1.79	0.64
22:UT:1701:MET:HE3	22:UT:1705:LEU:HD21	1.79	0.64
22:UT:2310:GLU:O	22:UT:2312:ARG:NH2	2.30	0.64
23:UU:242:ARG:NH2	23:UU:281:ARG:HG2	2.12	0.64
62:D3:1694:A:H2'	62:D3:1695:G:C8	2.32	0.64
3:UA:844:TYR:CE1	14:UL:899:GLY:HA3	2.33	0.64
11:UI:466:GLU:O	11:UI:470:ILE:HG12	1.98	0.64
12:UJ:1680:VAL:HG23	12:UJ:1683:HIS:HB2	1.79	0.64
14:UL:52:TRP:HE3	14:UL:59:LEU:HD13	1.63	0.64
15:UM:516:LYS:HD2	15:UM:528:THR:HG22	1.78	0.64
17:UO:30:TYR:HA	17:UO:332:LYS:HB2	1.78	0.64
19:UQ:559:LYS:NZ	19:UQ:560:ILE:O	2.30	0.64
22:UT:523:LEU:HB2	22:UT:557:GLY:HA3	1.78	0.64
23:UU:626:ASP:OD1	23:UU:627:ASN:N	2.30	0.64
23:UU:805:PHE:O	36:JD:1212:TYR:OH	2.15	0.64
24:UV:765:LEU:HD21	24:UV:917:LYS:HB3	1.80	0.64
35:CN:259:ARG:HH12	52:DN:83:GLU:HA	1.62	0.64
52:DN:13:SER:OG	52:DN:14:SER:N	2.30	0.64
62:D3:45:U:O2'	62:D3:46:A:OP1	2.15	0.64
3:UA:367:GLY:HA2	3:UA:390:VAL:HG23	1.79	0.64
7:UE:445:LEU:HD11	7:UE:480:LEU:HD12	1.78	0.64
8:UF:165:ARG:O	8:UF:169:GLN:HG2	1.98	0.64
13:UK:244:TRP:HE3	28:CF:31:ARG:NH1	1.96	0.64
15:UM:656:GLN:HE22	15:UM:660:LYS:HE2	1.62	0.64
17:UO:45:ILE:HG12	17:UO:319:VAL:HG11	1.79	0.64
22:UT:1083:TYR:CE1	22:UT:1087:VAL:HG11	2.32	0.64
22:UT:1801:ASN:HD21	22:UT:1882:ARG:HH21	1.44	0.64
24:UV:496:LEU:O	24:UV:500:ASN:ND2	2.29	0.64
25:UX:117:LEU:HD21	25:UX:121:ARG:NH1	2.12	0.64
28:CG:64:LEU:HD23	28:CG:64:LEU:H	1.61	0.64
29:CH:371:ARG:HA	29:CH:374:LYS:HD2	1.80	0.64
33:CL:69:PRO:HB3	33:CL:114:ARG:HG3	1.78	0.64
42:JP:81:ASN:HB2	42:JP:82:LYS:HD3	1.78	0.64
42:JP:389:ARG:NH1	63:D4:36:C:O2	2.29	0.64
62:D3:1711:C:H2'	62:D3:1712:A:H5"	1.78	0.64
15:UM:518:TRP:HB3	15:UM:525:LEU:HA	1.80	0.64
19:UQ:694:LEU:HB3	19:UQ:698:VAL:HB	1.79	0.64
22:UT:1924:LEU:HG	22:UT:1925:ASP:H	1.61	0.64
24:UV:867:ILE:HD13	24:UV:878:LEU:HB3	1.80	0.64
31:CJ:250:VAL:HG22	31:CJ:251:GLY:H	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DT:127:ASN:HA	56:DT:130:ARG:HD3	1.78	0.64
62:D3:779:U:O2'	62:D3:780:A:OP1	2.14	0.64
14:UL:408:THR:HG21	14:UL:447:LEU:HD21	1.80	0.64
17:UO:37:LYS:NZ	17:UO:38:GLU:O	2.23	0.64
22:UT:283:SER:O	22:UT:329:LYS:NZ	2.30	0.64
25:UX:136:TYR:HD2	25:UX:139:ASP:HB2	1.61	0.64
36:JD:595:ASN:HB2	36:JD:825:TYR:C	2.23	0.64
42:JP:109:HIS:CG	42:JP:140:SER:HB2	2.32	0.64
62:D3:1594:G:HO2'	62:D3:1600:A:N6	1.94	0.64
1:CA:159:LEU:HD11	1:CA:315:ILE:HD11	1.79	0.64
17:UO:213:GLN:NE2	17:UO:230:GLY:O	2.31	0.64
20:UR:240:ASP:HB2	20:UR:586:VAL:O	1.98	0.64
22:UT:1479:ASN:HA	22:UT:1483:HIS:HD2	1.62	0.64
22:UT:2076:ARG:O	22:UT:2080:MET:HG2	1.97	0.64
23:UU:24:PHE:HE2	23:UU:611:THR:HG21	1.61	0.64
23:UU:160:THR:N	23:UU:163:GLN:OE1	2.31	0.64
24:UV:494:GLU:OE1	24:UV:497:ARG:NH2	2.28	0.64
31:CJ:189:LEU:HD23	31:CJ:191:PHE:HE2	1.63	0.64
37:JF:175:CYS:HG	37:JF:201:SER:HG	1.45	0.64
42:JP:309:MET:HE1	57:DW:23:ARG:CZ	2.28	0.64
56:DT:14:PHE:HZ	56:DT:132:LEU:HD22	1.61	0.64
3:UA:84:PHE:O	3:UA:87:ARG:HD3	1.98	0.64
12:UJ:407:PHE:O	12:UJ:410:ILE:C	2.40	0.64
13:UK:103:ASP:OD1	13:UK:104:SER:N	2.30	0.64
14:UL:181:SER:OG	14:UL:183:ASP:OD1	2.13	0.64
14:UL:224:SER:HA	14:UL:251:GLN:HE21	1.63	0.64
14:UL:492:SER:OG	14:UL:496:THR:OG1	2.14	0.64
19:UQ:55:TYR:CD1	19:UQ:62:CYS:HA	2.33	0.64
19:UQ:473:LEU:HD21	19:UQ:507:MET:HE1	1.78	0.64
22:UT:1556:ARG:NH1	22:UT:1618:ASN:OD1	2.30	0.64
23:UU:424:ILE:HD11	23:UU:445:MET:HB3	1.80	0.64
34:CM:202:PRO:HG2	62:D3:1132:A:C5	2.33	0.64
36:JD:107:ARG:HG2	36:JD:110:ARG:HH21	1.63	0.64
36:JD:613:ILE:O	36:JD:616:LYS:C	2.41	0.64
36:JD:1018:LYS:O	36:JD:1020:GLN:N	2.30	0.64
41:JM:106:LEU:O	41:JM:146:ARG:NH1	2.30	0.64
42:JP:260:GLN:NE2	42:JP:289:TYR:OH	2.31	0.64
46:DF:118:LEU:HD22	46:DF:129:PRO:HB2	1.78	0.64
47:DG:24:ILE:HG22	47:DG:28:PHE:HE1	1.61	0.64
6:UD:233:LYS:NZ	6:UD:239:THR:O	2.31	0.64
12:UJ:772:VAL:HA	12:UJ:775:ILE:HG12	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UM:281:THR:HA	15:UM:327:ILE:HB	1.80	0.64
15:UM:568:MET:N	15:UM:568:MET:SD	2.71	0.64
15:UM:646:ASP:OD1	15:UM:647:CYS:N	2.30	0.64
17:UO:133:HIS:HB2	17:UO:139:ILE:HG22	1.79	0.64
17:UO:151:LEU:HB3	17:UO:162:LEU:HB2	1.80	0.64
24:UV:1109:LYS:NZ	24:UV:1170:GLY:O	2.27	0.64
36:JD:1154:TYR:HA	36:JD:1169:THR:O	1.98	0.64
41:JM:178:MET:HE2	41:JM:178:MET:HA	1.80	0.64
62:D3:260:U:H3'	62:D3:261:U:H5'	1.79	0.64
6:UD:136:ASN:HD21	18:UP:191:PRO:HA	1.63	0.64
6:UD:566:LEU:HD22	6:UD:570:ILE:HG12	1.80	0.64
22:UT:1961:LYS:HD2	22:UT:1998:LEU:HD11	1.80	0.64
23:UU:240:ARG:NH2	23:UU:243:THR:OG1	2.31	0.64
27:CE:219:SER:HA	27:CE:236:LYS:HD2	1.80	0.64
33:CL:125:LEU:HB2	33:CL:912:ARG:NH2	2.12	0.64
34:CM:76:TYR:HE1	34:CM:78:PRO:HB3	1.62	0.64
42:JP:109:HIS:CD2	42:JP:140:SER:HB2	2.33	0.64
59:DY:51:GLU:O	59:DY:54:ALA:N	2.26	0.64
3:UA:459:SER:HB2	3:UA:466:LEU:HD11	1.80	0.63
13:UK:248:ARG:HH12	20:UR:512:ASP:HB2	1.63	0.63
14:UL:428:PHE:CD1	14:UL:463:SER:HB2	2.33	0.63
14:UL:662:ALA:HB3	14:UL:675:SER:HB3	1.79	0.63
16:UN:872:ARG:O	16:UN:876:GLN:HG2	1.98	0.63
24:UV:721:VAL:HG23	24:UV:722:LEU:HD12	1.80	0.63
24:UV:872:ASN:HD21	39:JI:1543:TYR:HA	1.63	0.63
37:JF:138:SER:HA	37:JF:141:MET:HE2	1.79	0.63
53:DO:89:THR:HG22	53:DO:125:SER:HB2	1.79	0.63
3:UA:62:ASP:OD1	3:UA:63:LEU:N	2.31	0.63
3:UA:582:THR:HG21	3:UA:683:SER:HA	1.80	0.63
10:UH:558:CYS:O	10:UH:585:ARG:NH1	2.28	0.63
17:UO:90:ARG:NH2	17:UO:137:ASN:O	2.31	0.63
22:UT:969:SER:O	22:UT:972:LEU:C	2.41	0.63
23:UU:420:GLU:O	23:UU:429:ASN:ND2	2.28	0.63
40:JL:170:SER:O	40:JL:234:LYS:NZ	2.29	0.63
42:JP:284:HIS:CE1	42:JP:306:SER:HA	2.33	0.63
62:D3:1662:G:H2'	62:D3:1663:G:C8	2.34	0.63
1:CA:307:GLU:O	1:CA:309:TYR:N	2.31	0.63
3:UA:32:PRO:HB3	3:UA:61:ILE:HD11	1.81	0.63
13:UK:244:TRP:HB2	28:CF:31:ARG:NH1	2.13	0.63
15:UM:552:SER:OG	15:UM:554:ASP:OD1	2.11	0.63
23:UU:323:VAL:HG21	27:CE:419:VAL:HG11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UU:515:ARG:NH1	23:UU:532:ASN:OD1	2.31	0.63
26:CD:4:ILE:HD11	26:CD:99:ALA:HB2	1.81	0.63
26:CD:40:ASP:OD1	26:CD:41:PHE:N	2.31	0.63
27:CE:76:LEU:HA	27:CE:79:ILE:HG12	1.80	0.63
27:CE:167:ILE:HD11	27:CE:298:ARG:HE	1.63	0.63
62:D3:891:A:H2'	62:D3:892:A:H8	1.63	0.63
3:UA:311:ASN:OD1	3:UA:312:GLN:N	2.32	0.63
1:CB:195:TYR:HD2	1:CB:218:ILE:HG21	1.63	0.63
6:UD:637:PHE:HE2	6:UD:746:LEU:HG	1.64	0.63
8:UF:323:PHE:O	8:UF:331:ARG:NH1	2.32	0.63
12:UJ:556:LYS:O	12:UJ:592:ARG:NH2	2.31	0.63
12:UJ:1401:LEU:HD11	12:UJ:1440:VAL:HG11	1.80	0.63
14:UL:123:ALA:HB3	14:UL:141:LYS:HD2	1.80	0.63
15:UM:58:ASN:OD1	15:UM:59:GLU:N	2.31	0.63
15:UM:97:ARG:HE	15:UM:134:GLY:H	1.47	0.63
16:UN:817:ASN:OD1	16:UN:818:LYS:N	2.31	0.63
17:UO:57:VAL:HG21	17:UO:327:LEU:HD21	1.81	0.63
19:UQ:360:MET:CB	19:UQ:368:ASP:O	2.43	0.63
22:UT:438:GLU:OE1	22:UT:442:LYS:NZ	2.27	0.63
22:UT:538:LEU:HD11	22:UT:565:LEU:HG	1.80	0.63
22:UT:1098:ASN:HD21	22:UT:1103:SER:HB3	1.64	0.63
24:UV:526:CYS:HB3	24:UV:616:LYS:NZ	2.13	0.63
35:CN:259:ARG:NE	35:CN:259:ARG:HA	2.14	0.63
37:JG:97:LEU:HD22	37:JG:130:ILE:HD12	1.79	0.63
42:JP:75:LYS:HE3	42:JP:358:MET:HE3	1.80	0.63
6:UD:214:SER:HB2	6:UD:226:LEU:HD22	1.79	0.63
6:UD:222:MET:HA	6:UD:222:MET:HE3	1.80	0.63
13:UK:167:THR:HG22	13:UK:169:ASP:H	1.64	0.63
14:UL:386:GLU:HG3	14:UL:391:ARG:NE	2.13	0.63
15:UM:175:TRP:CD1	15:UM:182:CYS:HA	2.34	0.63
22:UT:279:TRP:HD1	22:UT:320:THR:HG22	1.63	0.63
22:UT:1903:LEU:HD21	22:UT:1940:LYS:HG2	1.80	0.63
23:UU:62:ASP:OD1	23:UU:63:ALA:N	2.32	0.63
23:UU:324:PHE:HE1	23:UU:340:PRO:HB3	1.63	0.63
24:UV:169:PRO:HA	24:UV:172:THR:HG22	1.79	0.63
26:CD:110:LYS:NZ	42:JP:157:ASN:HD21	1.97	0.63
26:CD:302:ASN:HD21	26:CD:397:SER:C	2.05	0.63
27:CE:208:ILE:HD11	27:CE:227:LEU:HD11	1.81	0.63
29:CH:242:VAL:HG23	29:CH:253:THR:HG22	1.79	0.63
36:JD:735:TYR:CE2	36:JD:737:LEU:HB2	2.34	0.63
36:JD:1155:TYR:HB2	36:JD:1169:THR:HG22	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:JF:31:LEU:HD13	37:JF:40:ARG:HE	1.63	0.63
37:JG:43:VAL:HG13	37:JG:112:VAL:HG23	1.81	0.63
37:JG:151:ARG:NH1	62:D3:1570:A:O3'	2.31	0.63
46:DF:189:THR:HG22	46:DF:192:GLU:HG2	1.81	0.63
62:D3:828:U:H2'	62:D3:829:A:C8	2.34	0.63
2:DA:88:VAL:HG21	2:DA:96:LEU:HD23	1.79	0.63
7:UE:536:LEU:HD11	17:UO:453:VAL:HG13	1.80	0.63
12:UJ:690:GLU:HG3	12:UJ:694:HIS:CE1	2.33	0.63
14:UL:7:ARG:HA	14:UL:651:GLN:HE22	1.62	0.63
17:UO:32:SER:OG	17:UO:331:THR:O	2.17	0.63
20:UR:146:LEU:C	20:UR:163:ARG:HH12	2.07	0.63
20:UR:400:ILE:HD11	20:UR:404:ILE:HG23	1.81	0.63
22:UT:1501:ARG:N	22:UT:1503:ILE:HG12	2.13	0.63
22:UT:2175:GLU:N	22:UT:2177:THR:HG1	1.96	0.63
24:UV:96:GLU:O	24:UV:100:SER:HB2	1.99	0.63
24:UV:558:LEU:HD23	24:UV:562:LEU:HD23	1.80	0.63
33:CL:830:ARG:NH2	33:CL:831:ARG:O	2.32	0.63
73:EJ:270:THR:H	73:EJ:275:MET:HA	1.64	0.63
2:DA:21:VAL:HG13	2:DA:23:PRO:HD3	1.81	0.63
1:CB:251:ARG:HH22	1:CB:255:LEU:HD11	1.64	0.63
7:UE:109:ASP:OD1	7:UE:110:ILE:N	2.31	0.63
8:UF:111:ALA:HB1	41:JM:73:ALA:HB2	1.80	0.63
17:UO:370:GLN:OE1	20:UR:245:HIS:NE2	2.28	0.63
22:UT:1239:ASP:HA	22:UT:1242:LYS:HG2	1.81	0.63
23:UU:638:GLY:O	23:UU:656:ASN:ND2	2.25	0.63
26:CD:264:SER:OG	26:CD:266:THR:OG1	2.14	0.63
35:CN:18:PHE:HB2	35:CN:35:HIS:HB3	1.80	0.63
36:JD:812:ARG:HA	36:JD:815:ARG:HG2	1.81	0.63
56:DT:105:LEU:HD22	56:DT:122:ARG:HD3	1.81	0.63
57:DW:80:ASN:HD21	62:D3:747:C:H4'	1.64	0.63
62:D3:127:G:O2'	62:D3:129:U:OP1	2.17	0.63
6:UD:565:ARG:HG2	12:UJ:635:TYR:H	1.63	0.63
7:UE:200:GLU:O	7:UE:216:ASP:HA	1.99	0.63
8:UF:299:LYS:NZ	27:CE:249:GLN:HG2	2.14	0.63
14:UL:637:ALA:HA	14:UL:660:VAL:HG23	1.81	0.63
17:UO:90:ARG:HH11	17:UO:95:LEU:HD13	1.63	0.63
30:CI:115:MET:HB3	30:CI:120:MET:HB2	1.80	0.63
41:JM:112:ASN:HB2	63:D4:90:C:N3	2.14	0.63
47:DG:187:LYS:NZ	62:D3:139:C:O2'	2.32	0.63
62:D3:922:G:H2'	62:D3:923:A:H8	1.63	0.63
62:D3:1085:G:N2	62:D3:1088:A:OP2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:D4:72:C:H2'	63:D4:73:A:H8	1.64	0.63
12:UJ:601:SER:HB3	12:UJ:613:MET:HE1	1.80	0.63
12:UJ:1581:LYS:O	12:UJ:1585:ASN:ND2	2.22	0.63
14:UL:345:THR:OG1	14:UL:350:LYS:O	2.13	0.63
19:UQ:312:LEU:HB3	19:UQ:324:TRP:HB2	1.80	0.63
24:UV:298:PHE:HB2	24:UV:340:SER:HA	1.81	0.63
36:JD:536:VAL:O	36:JD:551:LYS:NZ	2.31	0.63
44:JJ:129:ARG:HH21	44:JJ:131:ASN:ND2	1.96	0.63
46:DF:222:LYS:HA	46:DF:225:ARG:HH21	1.63	0.63
56:DT:78:LYS:NZ	62:D3:1523:G:OP1	2.32	0.63
60:Dc:20:GLY:O	60:Dc:65:ARG:NE	2.32	0.63
17:UO:219:ILE:HD13	17:UO:258:LEU:HD22	1.81	0.62
19:UQ:459:ILE:HB	19:UQ:469:ASN:HB2	1.81	0.62
24:UV:306:LYS:HA	24:UV:309:LEU:HG	1.80	0.62
28:CG:23:VAL:HG11	28:CG:117:VAL:HG21	1.81	0.62
31:CJ:143:HIS:ND1	62:D3:1604:U:H5"	2.13	0.62
32:CK:408:SER:OG	32:CK:411:GLU:OE1	2.15	0.62
44:JJ:186:GLU:OE1	44:JJ:188:LYS:NZ	2.32	0.62
48:DH:52:ALA:C	48:DH:54:GLY:H	2.06	0.62
48:DH:63:PRO:O	48:DH:66:SER:OG	2.16	0.62
17:UO:302:VAL:HA	17:UO:322:LEU:HA	1.80	0.62
22:UT:1000:PHE:O	22:UT:1003:ILE:HG22	1.99	0.62
22:UT:2441:ARG:O	22:UT:2445:ARG:HD3	1.98	0.62
24:UV:671:THR:HA	24:UV:677:ILE:HD11	1.80	0.62
24:UV:1019:GLY:O	24:UV:1023:ASN:ND2	2.31	0.62
30:CI:4:LYS:NZ	61:D2:476:A:OP1	2.32	0.62
30:CI:152:ARG:O	30:CI:155:GLU:HG3	1.99	0.62
33:CL:12:LYS:HD3	33:CL:15:ASN:HB2	1.80	0.62
42:JP:97:MET:O	42:JP:100:ARG:NH1	2.33	0.62
46:DF:57:SER:HA	60:Dc:53:ILE:HB	1.81	0.62
61:D2:478:U:H2'	61:D2:479:G:H8	1.64	0.62
14:UL:880:ILE:HG22	15:UM:810:LEU:HD12	1.81	0.62
16:UN:336:THR:OG1	16:UN:337:GLU:OE1	2.17	0.62
17:UO:493:HIS:CE1	17:UO:497:LYS:HE3	2.34	0.62
21:US:381:LYS:NZ	21:US:462:SER:O	2.32	0.62
22:UT:874:LEU:HD21	22:UT:885:ARG:HG2	1.81	0.62
22:UT:2204:ASP:OD1	22:UT:2205:LEU:N	2.32	0.62
28:CF:32:GLN:NE2	28:CF:105:ASN:HB3	2.14	0.62
1:CB:175:ALA:N	1:CB:198:GLU:OE2	2.32	0.62
7:UE:498:LEU:HA	7:UE:501:TRP:CD1	2.28	0.62
20:UR:295:ILE:HD12	20:UR:314:THR:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:222:ASP:HB3	22:UT:225:GLN:HB3	1.81	0.62
25:UX:182:ILE:HG12	25:UX:185:LEU:HD12	1.80	0.62
37:JF:35:ASP:OD2	37:JF:40:ARG:NH2	2.32	0.62
40:JL:162:ARG:NH1	62:D3:1781:A:H61	1.98	0.62
41:JM:155:ASP:OD1	41:JM:156:LYS:N	2.32	0.62
42:JP:131:LYS:HG2	42:JP:155:TYR:CE2	2.35	0.62
47:DG:92:ARG:O	62:D3:405:C:O2'	2.17	0.62
62:D3:1131:A:H2'	62:D3:1132:A:C8	2.35	0.62
74:EK:300:LEU:O	74:EK:389:THR:HA	1.98	0.62
1:CA:120:GLU:N	1:CA:120:GLU:OE1	2.32	0.62
6:UD:209:ARG:HE	6:UD:230:LYS:HG3	1.64	0.62
6:UD:510:GLU:O	6:UD:558:ARG:NH1	2.32	0.62
7:UE:495:GLN:HE21	17:UO:497:LYS:HD3	1.64	0.62
14:UL:276:ASN:OD1	14:UL:277:ALA:N	2.25	0.62
14:UL:492:SER:HG	14:UL:496:THR:HG1	1.46	0.62
22:UT:1335:GLY:H	22:UT:1373:LYS:NZ	1.97	0.62
32:CK:344:GLU:HA	33:CL:960:ARG:HH21	1.64	0.62
35:CN:151:HIS:CE1	35:CN:153:ASN:HB3	2.34	0.62
36:JD:986:LYS:HE2	36:JD:988:TYR:HB2	1.81	0.62
46:DF:48:PHE:CE2	46:DF:67:PRO:HA	2.33	0.62
62:D3:56:U:OP1	62:D3:403:G:N1	2.24	0.62
13:UK:139:SER:OG	13:UK:142:LYS:HG2	1.98	0.62
14:UL:829:VAL:HG22	14:UL:860:ILE:HD11	1.82	0.62
17:UO:264:PHE:HB2	17:UO:316:ARG:HH21	1.65	0.62
22:UT:2241:TYR:O	22:UT:2243:HIS:ND1	2.27	0.62
25:UX:98:ILE:HG23	25:UX:102:VAL:CG1	2.29	0.62
25:UX:155:THR:O	25:UX:174:SER:HA	1.99	0.62
37:JF:150:ILE:HD12	37:JF:160:LEU:HD12	1.80	0.62
45:DE:117:GLU:OE1	45:DE:117:GLU:N	2.31	0.62
3:UA:155:SER:OG	3:UA:157:ASP:O	2.11	0.62
3:UA:439:ASP:OD1	3:UA:441:SER:N	2.31	0.62
6:UD:144:ILE:HD13	6:UD:160:CYS:HB3	1.80	0.62
7:UE:307:GLN:OE1	7:UE:332:LEU:HD21	1.99	0.62
7:UE:529:THR:O	7:UE:532:ARG:HG2	1.99	0.62
12:UJ:716:PHE:O	12:UJ:719:SER:OG	2.17	0.62
19:UQ:588:ASP:OD1	19:UQ:597:LYS:NZ	2.32	0.62
19:UQ:680:ALA:HB1	19:UQ:749:ASP:HB2	1.80	0.62
20:UR:352:GLN:HB3	20:UR:379:GLY:HA2	1.80	0.62
22:UT:1151:ILE:HD13	22:UT:1198:PHE:CE1	2.34	0.62
24:UV:339:SER:HA	24:UV:342:HIS:CD2	2.35	0.62
24:UV:936:LEU:HD12	24:UV:977:LEU:HD12	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UV:978:ASP:OD1	24:UV:1011:ARG:HG3	1.99	0.62
33:CL:889:LEU:HD22	33:CL:922:ILE:HG23	1.82	0.62
46:DF:157:ARG:O	46:DF:224:ASN:ND2	2.32	0.62
49:DI:49:ARG:NH1	62:D3:399:A:OP1	2.32	0.62
53:DO:13:VAL:HG23	53:DO:76:ILE:HA	1.80	0.62
56:DT:13:ASP:OD1	56:DT:14:PHE:N	2.32	0.62
62:D3:572:C:H5"	62:D3:573:C:H5	1.64	0.62
62:D3:1666:U:O4	62:D3:1667:A:N6	2.32	0.62
64:EA:162:U:H5'	75:EN:224:GLY:HA3	1.81	0.62
75:EN:436:GLU:O	75:EN:440:LEU:N	2.32	0.62
1:CB:242:ALA:HB2	1:CB:253:ILE:HD11	1.80	0.62
6:UD:585:ILE:HG12	6:UD:591:ILE:HG13	1.82	0.62
9:UG:213:TRP:HE1	9:UG:227:GLU:HG3	1.65	0.62
14:UL:188:LEU:HB3	14:UL:198:GLU:HB3	1.80	0.62
15:UM:437:VAL:HA	15:UM:458:SER:HA	1.80	0.62
17:UO:193:ILE:HD11	17:UO:215:VAL:HG21	1.82	0.62
21:US:179:GLU:HA	21:US:182:GLU:HG2	1.82	0.62
23:UU:324:PHE:CE1	23:UU:340:PRO:HB3	2.35	0.62
24:UV:971:LYS:NZ	24:UV:1033:ASN:HA	2.14	0.62
31:CJ:278:ARG:HA	62:D3:1596:C:H5	1.65	0.62
36:JD:403:ALA:O	36:JD:407:ASN:HB2	2.00	0.62
42:JP:237:SER:HB3	42:JP:247:TYR:HE1	1.65	0.62
47:DG:78:THR:HG22	47:DG:79:LYS:H	1.64	0.62
58:DX:53:VAL:HA	58:DX:74:VAL:HG12	1.82	0.62
1:CA:261:LEU:O	26:CD:129:ARG:NH1	2.31	0.62
3:UA:35:ASN:HD21	3:UA:620:ASN:HB2	1.64	0.62
7:UE:167:SER:O	7:UE:168:HIS:ND1	2.33	0.62
15:UM:603:ASP:HB2	15:UM:606:SER:HB3	1.82	0.62
19:UQ:60:ARG:NH1	19:UQ:384:SER:OG	2.33	0.62
22:UT:1625:ASN:O	22:UT:1628:ILE:HG12	2.00	0.62
23:UU:119:GLU:O	23:UU:120:HIS:ND1	2.33	0.62
23:UU:574:THR:OG1	23:UU:576:ARG:NH2	2.33	0.62
24:UV:214:PHE:CE2	24:UV:299:PRO:HD2	2.33	0.62
37:JG:112:VAL:HG13	37:JG:124:VAL:CG1	2.30	0.62
49:DI:31:ARG:NH1	62:D3:332:U:OP1	2.32	0.62
56:DT:25:GLN:HE22	56:DT:27:LYS:HB3	1.65	0.62
58:DX:46:SER:OG	58:DX:48:HIS:O	2.12	0.62
73:EJ:154:GLU:HA	73:EJ:202:ARG:HA	1.82	0.62
4:UB:97:ARG:NH2	4:UB:101:ALA:HB2	2.14	0.62
4:UB:557:SER:O	4:UB:559:ARG:NH1	2.33	0.62
19:UQ:32:LYS:NZ	19:UQ:343:ASP:OD2	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:437:LEU:O	22:UT:764:ARG:NH1	2.33	0.62
22:UT:1503:ILE:O	22:UT:1507:THR:OG1	2.11	0.62
24:UV:151:SER:O	24:UV:155:ASN:ND2	2.33	0.62
31:CJ:223:THR:O	31:CJ:233:VAL:HA	2.00	0.62
38:JH:399:ILE:HA	38:JH:409:ALA:HB1	1.82	0.62
2:DA:61:LEU:HD22	2:DA:96:LEU:HD21	1.80	0.61
8:UF:342:TRP:HZ2	8:UF:358:LEU:HD12	1.65	0.61
13:UK:10:LYS:NZ	62:D3:552:G:O6	2.29	0.61
15:UM:129:VAL:HA	15:UM:136:ILE:HA	1.82	0.61
24:UV:184:SER:OG	24:UV:343:GLU:OE2	2.18	0.61
30:CI:30:THR:HA	30:CI:33:MET:HG2	1.82	0.61
36:JD:919:ASP:HA	36:JD:924:LEU:HD21	1.81	0.61
60:Dc:42:ARG:HG3	60:Dc:56:LEU:HD21	1.81	0.61
9:UG:263:MET:N	9:UG:263:MET:SD	2.73	0.61
9:UG:263:MET:HG3	16:UN:835:VAL:HB	1.83	0.61
24:UV:929:ILE:HG23	24:UV:933:LEU:HD23	1.81	0.61
24:UV:1105:PRO:HD3	24:UV:1230:MET:HE1	1.81	0.61
36:JD:540:ALA:HB1	36:JD:551:LYS:HG3	1.80	0.61
42:JP:196:THR:OG1	42:JP:204:TRP:NE1	2.32	0.61
9:UG:299:LYS:NZ	9:UG:308:GLN:OE1	2.33	0.61
10:UH:676:TRP:HB2	11:UI:486:LEU:HB3	1.82	0.61
12:UJ:700:SER:O	12:UJ:703:GLU:HG3	1.99	0.61
14:UL:198:GLU:OE2	14:UL:200:HIS:NE2	2.33	0.61
14:UL:279:LYS:HG2	14:UL:337:LYS:HA	1.81	0.61
19:UQ:111:THR:HG22	19:UQ:115:HIS:HB2	1.82	0.61
19:UQ:510:TYR:OH	19:UQ:527:HIS:ND1	2.32	0.61
24:UV:633:ALA:HA	24:UV:664:THR:HG22	1.82	0.61
34:CM:267:ILE:HB	34:CM:270:GLU:HB2	1.82	0.61
36:JD:1076:GLN:O	36:JD:1080:LEU:HG	2.01	0.61
37:JG:178:VAL:HA	37:JG:223:GLU:O	1.99	0.61
62:D3:1594:G:O2'	62:D3:1600:A:N6	2.27	0.61
3:UA:67:GLY:O	3:UA:85:LYS:NZ	2.32	0.61
1:CB:160:ASP:OD1	1:CB:161:GLU:N	2.32	0.61
6:UD:143:VAL:HG11	18:UP:198:ILE:HD13	1.83	0.61
6:UD:593:GLU:OE1	6:UD:615:SER:OG	2.18	0.61
7:UE:518:ASN:HB2	7:UE:521:SER:HB2	1.82	0.61
9:UG:45:GLY:HA3	16:UN:856:GLN:NE2	2.16	0.61
9:UG:409:ALA:O	42:JP:8:ARG:NH1	2.33	0.61
19:UQ:366:ASN:HA	19:UQ:399:ILE:HD13	1.82	0.61
21:US:270:SER:O	21:US:274:TYR:HB2	1.99	0.61
22:UT:976:TYR:OH	22:UT:988:LYS:NZ	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1292:GLY:HA3	22:UT:1301:ILE:HD13	1.81	0.61
24:UV:872:ASN:HA	24:UV:875:LYS:HD2	1.83	0.61
29:CH:445:GLU:OE1	29:CH:446:PRO:HD2	2.00	0.61
32:CK:493:GLN:OE1	32:CK:493:GLN:N	2.32	0.61
36:JD:637:LYS:O	36:JD:641:LYS:HG3	2.00	0.61
62:D3:474:A:O2'	62:D3:475:A:OP2	2.13	0.61
1:CB:232:MET:HG2	27:CE:61:ASN:ND2	2.16	0.61
6:UD:323:SER:OG	19:UQ:289:GLN:NE2	2.33	0.61
12:UJ:600:LEU:HD23	12:UJ:603:LYS:HE2	1.82	0.61
14:UL:823:VAL:HA	60:Dc:16:LEU:HD23	1.81	0.61
15:UM:501:PRO:HG2	15:UM:543:GLN:HG3	1.82	0.61
23:UU:21:SER:OG	23:UU:22:LYS:N	2.33	0.61
28:CG:32:GLN:NE2	28:CG:105:ASN:HB3	2.14	0.61
30:CI:106:ILE:HG23	30:CI:149:LEU:HD21	1.83	0.61
51:DL:132:SER:HB3	51:DL:135:VAL:HG12	1.82	0.61
54:DQ:42:GLU:HA	54:DQ:45:ARG:HG3	1.81	0.61
61:D2:470:U:O4	63:D4:48:A:N6	2.19	0.61
1:CA:114:GLY:N	1:CA:140:GLU:OE1	2.34	0.61
2:DA:243:LYS:HZ2	24:UV:656:ARG:NE	1.96	0.61
6:UD:401:ILE:HB	6:UD:418:CYS:HB2	1.81	0.61
6:UD:595:ASN:H	6:UD:611:LEU:HA	1.65	0.61
7:UE:445:LEU:HB3	7:UE:479:ILE:HD11	1.81	0.61
7:UE:522:THR:HG23	7:UE:523:LEU:HD12	1.83	0.61
9:UG:257:SER:OG	9:UG:259:TRP:NE1	2.31	0.61
12:UJ:363:LEU:HD23	12:UJ:366:ILE:HD12	1.83	0.61
22:UT:1151:ILE:HG13	22:UT:1152:GLU:N	2.16	0.61
22:UT:1313:SER:OG	22:UT:1323:ARG:NE	2.33	0.61
22:UT:1606:ILE:H	22:UT:1606:ILE:HD12	1.66	0.61
22:UT:1921:LEU:O	22:UT:1924:LEU:C	2.43	0.61
24:UV:173:ASN:HD21	62:D3:1699:G:H5"	1.65	0.61
24:UV:703:LYS:HD2	24:UV:1082:GLN:HB2	1.82	0.61
24:UV:883:LEU:HD11	24:UV:1051:LEU:HD23	1.82	0.61
25:UX:86:MET:HE1	25:UX:96:PRO:HB3	1.81	0.61
27:CE:232:GLU:O	27:CE:236:LYS:HG2	2.01	0.61
62:D3:1569:A:H2'	62:D3:1570:A:H8	1.65	0.61
1:CA:208:ILE:HD11	26:CD:159:SER:HB3	1.83	0.61
2:DA:214:LYS:NZ	62:D3:886:U:OP1	2.33	0.61
4:UB:88:LYS:O	4:UB:92:GLU:HG2	2.01	0.61
7:UE:23:ALA:HB1	20:UR:261:PRO:HG3	1.83	0.61
7:UE:469:ILE:HB	7:UE:508:ILE:HD12	1.83	0.61
12:UJ:1548:PHE:CD2	12:UJ:1593:TYR:HD1	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UM:186:LEU:HD23	15:UM:223:TRP:CE2	2.36	0.61
15:UM:414:VAL:HB	15:UM:428:ALA:HB3	1.81	0.61
17:UO:268:MET:HE2	17:UO:285:ASP:HB2	1.81	0.61
20:UR:306:ASN:HD22	20:UR:309:GLN:CD	2.09	0.61
22:UT:2095:LEU:O	22:UT:2099:SER:HB3	2.00	0.61
23:UU:102:LYS:HG2	23:UU:103:ARG:HG3	1.83	0.61
28:CF:23:VAL:HG11	28:CF:117:VAL:HG21	1.81	0.61
36:JD:883:LEU:HB3	36:JD:889:LEU:HD13	1.83	0.61
50:DJ:62:ARG:HD2	50:DJ:68:LYS:HZ1	1.66	0.61
62:D3:1657:U:H4'	62:D3:1658:G:O5'	2.01	0.61
63:D4:102:U:H2'	63:D4:103:A:C8	2.35	0.61
67:ED:177:ARG:HA	67:ED:187:VAL:HA	1.82	0.61
17:UO:263:ASN:O	17:UO:310:SER:OG	2.13	0.61
19:UQ:730:ASP:O	19:UQ:734:VAL:N	2.34	0.61
22:UT:874:LEU:HD21	22:UT:885:ARG:NH1	2.16	0.61
23:UU:135:ASN:ND2	23:UU:166:GLU:OE2	2.34	0.61
24:UV:145:SER:N	24:UV:148:GLU:OE2	2.32	0.61
24:UV:379:MET:HE1	24:UV:382:SER:HB2	1.83	0.61
24:UV:1195:LYS:NZ	24:UV:1210:GLU:OE1	2.32	0.61
27:CE:160:ASP:O	27:CE:164:ILE:HD12	2.01	0.61
36:JD:986:LYS:HB3	36:JD:989:LYS:HB2	1.80	0.61
47:DG:55:GLY:O	47:DG:63:MET:HG3	2.01	0.61
62:D3:74:U:H1'	62:D3:75:U:H5'	1.83	0.61
62:D3:1735:U:H2'	62:D3:1736:G:O4'	1.99	0.61
73:EJ:276:THR:HA	73:EJ:283:THR:HA	1.83	0.61
4:UB:490:PHE:HD1	4:UB:532:ILE:HD12	1.66	0.61
8:UF:340:GLN:O	8:UF:343:LYS:HG2	2.00	0.61
14:UL:350:LYS:HE3	14:UL:366:SER:HB3	1.83	0.61
20:UR:488:SER:HB3	28:CF:89:ARG:NH1	2.13	0.61
22:UT:1116:PRO:HA	22:UT:1119:TYR:CZ	2.36	0.61
22:UT:1587:LYS:HA	22:UT:1590:LEU:HB3	1.82	0.61
23:UU:373:ARG:HH11	23:UU:373:ARG:HG2	1.65	0.61
23:UU:456:ASP:OD1	23:UU:457:THR:N	2.34	0.61
23:UU:514:ASN:O	23:UU:532:ASN:ND2	2.32	0.61
24:UV:583:ILE:HD13	24:UV:615:VAL:HG12	1.82	0.61
24:UV:638:MET:HE2	24:UV:643:ALA:HA	1.83	0.61
25:UX:135:THR:O	25:UX:135:THR:HG22	2.00	0.61
25:UX:189:PHE:CE1	50:DJ:15:PRO:HB3	2.35	0.61
36:JD:1024:PHE:O	36:JD:1028:ASN:ND2	2.29	0.61
37:JF:176:ARG:HD2	37:JF:196:LEU:HD21	1.82	0.61
60:Dc:65:ARG:HH22	60:Dc:67:ARG:HD3	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:D3:1690:G:H2'	62:D3:1691:A:H8	1.65	0.61
63:D4:188:A:H3'	63:D4:189:A:H8	1.66	0.61
1:CA:86:VAL:HG21	1:CA:123:ILE:HD13	1.82	0.61
7:UE:255:ILE:HD11	7:UE:277:LYS:HD2	1.82	0.61
16:UN:796:GLY:HA3	44:JJ:127:GLN:HG2	1.83	0.61
16:UN:799:SER:OG	16:UN:800:LYS:N	2.31	0.61
17:UO:359:ARG:HA	17:UO:362:ARG:HD3	1.82	0.61
20:UR:382:GLY:HA2	20:UR:400:ILE:O	1.99	0.61
20:UR:400:ILE:HB	20:UR:433:TRP:CE3	2.36	0.61
22:UT:1384:LEU:O	22:UT:1388:SER:N	2.31	0.61
22:UT:1927:SER:OG	22:UT:1928:ASP:N	2.33	0.61
24:UV:514:ASN:HB3	24:UV:517:ARG:HH12	1.66	0.61
25:UX:52:PHE:HB3	25:UX:55:TYR:HB3	1.83	0.61
47:DG:56:ASN:HD21	62:D3:153:G:N2	1.99	0.61
51:DL:59:PRO:HD3	51:DL:138:ASN:ND2	2.16	0.61
62:D3:1672:G:H2'	62:D3:1673:G:C8	2.36	0.61
9:UG:333:SER:HB2	9:UG:378:VAL:HG21	1.81	0.60
12:UJ:611:ILE:HD12	12:UJ:612:PRO:HD2	1.81	0.60
19:UQ:71:ASN:HB3	19:UQ:74:LEU:HB2	1.82	0.60
20:UR:440:ASN:C	20:UR:440:ASN:HD22	2.08	0.60
33:CL:1054:TYR:O	33:CL:1055:HIS:ND1	2.34	0.60
36:JD:1240:LYS:HZ3	36:JD:1245:TRP:CD1	2.18	0.60
37:JF:178:VAL:HG12	37:JF:223:GLU:HG3	1.83	0.60
62:D3:656:G:N1	62:D3:678:A:N3	2.49	0.60
12:UJ:302:LEU:O	12:UJ:305:THR:OG1	2.14	0.60
12:UJ:1615:ASN:OD1	12:UJ:1618:LEU:N	2.33	0.60
14:UL:48:ASP:OD1	14:UL:49:VAL:N	2.35	0.60
15:UM:45:LEU:HA	15:UM:50:ARG:HG2	1.82	0.60
15:UM:77:THR:HG21	15:UM:117:LEU:HD13	1.83	0.60
21:US:174:ASN:HB2	21:US:178:VAL:HG13	1.81	0.60
22:UT:418:GLN:NE2	22:UT:452:ASN:H	1.99	0.60
22:UT:1605:THR:O	22:UT:1609:ARG:HG2	2.01	0.60
22:UT:2232:TRP:CD1	22:UT:2257:LEU:HD12	2.36	0.60
27:CE:286:ASN:ND2	27:CE:374:ASP:OD1	2.20	0.60
29:CH:405:VAL:HG23	29:CH:415:THR:HG22	1.82	0.60
29:CH:538:ARG:NE	29:CH:565:SER:OG	2.33	0.60
30:CI:146:PRO:O	30:CI:148:TYR:N	2.34	0.60
33:CL:993:ASP:OD1	33:CL:994:LYS:N	2.34	0.60
36:JD:120:TYR:HB3	40:JL:308:TYR:CD1	2.36	0.60
36:JD:854:MET:HB3	36:JD:859:ILE:HB	1.83	0.60
36:JD:1141:LEU:HD13	36:JD:1144:LEU:HD12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:JG:94:GLN:NE2	37:JG:95:CYS:SG	2.74	0.60
40:JL:181:MET:HG2	40:JL:223:TRP:CZ2	2.36	0.60
45:DE:56:LEU:N	45:DE:60:GLU:OE1	2.34	0.60
48:DH:70:PHE:O	48:DH:74:GLN:HB2	2.01	0.60
49:DI:178:ARG:NH1	62:D3:259:U:O4’	2.34	0.60
50:DJ:63:ASP:OD1	50:DJ:64:GLU:N	2.34	0.60
62:D3:196:G:HO2’	62:D3:197:A:H8	1.47	0.60
62:D3:472:U:O2’	62:D3:769:A:N3	2.31	0.60
1:CA:321:MET:O	1:CA:323:SER:N	2.35	0.60
1:CB:111:MET:HE2	1:CB:186:ASP:HA	1.82	0.60
6:UD:147:ILE:HD11	6:UD:156:LEU:HD12	1.82	0.60
12:UJ:168:VAL:HG12	12:UJ:169:ARG:HG3	1.82	0.60
12:UJ:363:LEU:HA	12:UJ:366:ILE:HD12	1.82	0.60
12:UJ:1437:ARG:O	12:UJ:1441:ILE:HG12	2.02	0.60
12:UJ:1464:GLU:HG3	12:UJ:1465:ILE:HG12	1.81	0.60
21:US:230:SER:HB3	21:US:288:HIS:CD2	2.36	0.60
23:UU:859:ASP:OD1	23:UU:860:GLU:N	2.34	0.60
27:CE:163:ILE:HD11	27:CE:279:ARG:HG3	1.82	0.60
31:CJ:25:LEU:HG	31:CJ:29:ARG:HH11	1.66	0.60
33:CL:140:LEU:HD11	33:CL:152:THR:HG23	1.83	0.60
36:JD:1060:VAL:HG22	44:JJ:82:THR:HG23	1.82	0.60
58:DX:43:PHE:CD2	58:DX:49:ALA:HB2	2.35	0.60
59:DY:99:LYS:NZ	59:DY:100:VAL:O	2.34	0.60
9:UG:320:THR:O	9:UG:321:ASN:ND2	2.34	0.60
14:UL:15:GLY:O	14:UL:360:ASN:ND2	2.35	0.60
14:UL:677:HIS:NE2	62:D3:1654:G:O2’	2.34	0.60
17:UO:403:ASN:HA	17:UO:406:VAL:HG13	1.83	0.60
20:UR:127:ASP:HB3	20:UR:130:ASP:HB2	1.81	0.60
20:UR:405:THR:HG21	20:UR:455:ILE:O	2.01	0.60
24:UV:158:VAL:HG11	24:UV:237:HIS:HB2	1.83	0.60
24:UV:379:MET:O	24:UV:384:SER:OG	2.19	0.60
24:UV:392:GLU:H	24:UV:392:GLU:CD	2.09	0.60
24:UV:427:LYS:HA	24:UV:496:LEU:HD21	1.83	0.60
36:JD:116:LYS:HE2	36:JD:120:TYR:HE2	1.66	0.60
36:JD:1050:LYS:HD2	36:JD:1062:ILE:HD11	1.83	0.60
36:JD:1135:ILE:HD11	36:JD:1170:LEU:HD11	1.81	0.60
40:JL:276:VAL:O	40:JL:279:GLU:HG3	2.01	0.60
62:D3:1544:U:H2’	62:D3:1545:A:H8	1.64	0.60
62:D3:1568:C:H4’	62:D3:1569:A:O5’	2.01	0.60
19:UQ:304:SER:HB2	19:UQ:313:LEU:HB2	1.83	0.60
19:UQ:579:ASN:HD21	19:UQ:603:ASN:HA	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1125:ASP:OD1	22:UT:1126:GLU:N	2.35	0.60
24:UV:364:VAL:HA	24:UV:367:ARG:HG2	1.83	0.60
37:JG:39:LYS:HA	37:JG:200:GLU:O	2.00	0.60
40:JL:233:ARG:NH1	62:D3:1777:G:H5'	2.17	0.60
62:D3:1499:G:H1	62:D3:1508:U:H3	1.49	0.60
63:D4:96:C:H2'	63:D4:97:C:C6	2.37	0.60
2:DA:3:VAL:HG23	53:DO:49:LYS:HB3	1.82	0.60
3:UA:844:TYR:CD1	14:UL:899:GLY:HA3	2.36	0.60
6:UD:308:SER:OG	6:UD:310:ASN:OD1	2.20	0.60
9:UG:253:ASN:HB2	9:UG:255:THR:HG23	1.82	0.60
14:UL:261:PHE:O	14:UL:343:TRP:NE1	2.35	0.60
14:UL:285:ARG:HB3	14:UL:327:HIS:HB3	1.82	0.60
15:UM:106:TYR:OH	53:DO:73:GLU:OE1	2.17	0.60
19:UQ:113:ASN:O	19:UQ:115:HIS:ND1	2.33	0.60
20:UR:161:ILE:HD11	23:UU:177:LEU:CD2	2.32	0.60
20:UR:430:GLY:HA2	20:UR:455:ILE:HD12	1.82	0.60
22:UT:1074:ASP:OD1	22:UT:1075:TRP:N	2.34	0.60
22:UT:1668:GLU:OE1	22:UT:1668:GLU:N	2.30	0.60
33:CL:233:ARG:NH2	62:D3:435:C:OP1	2.34	0.60
33:CL:562:GLU:HG3	33:CL:566:ARG:HH12	1.66	0.60
36:JD:1048:ILE:O	36:JD:1051:SER:OG	2.18	0.60
50:DJ:111:THR:O	50:DJ:115:LYS:HG2	2.02	0.60
62:D3:1110:G:H2'	62:D3:1111:G:H8	1.66	0.60
63:D4:181:G:N2	63:D4:184:U:OP2	2.29	0.60
6:UD:394:TRP:CG	6:UD:431:CYS:HG	2.20	0.60
13:UK:235:ASP:O	13:UK:238:GLY:N	2.35	0.60
17:UO:173:THR:HG22	17:UO:218:VAL:HG12	1.82	0.60
19:UQ:371:PHE:HB2	19:UQ:385:ILE:CG1	2.32	0.60
22:UT:1808:SER:OG	22:UT:1809:GLU:N	2.27	0.60
22:UT:2164:THR:O	22:UT:2167:VAL:HB	2.02	0.60
24:UV:439:HIS:HB2	24:UV:466:THR:HB	1.84	0.60
36:JD:2:GLY:N	62:D3:359:A:OP2	2.34	0.60
36:JD:1036:GLU:HB2	36:JD:1040:LYS:NZ	2.16	0.60
49:DI:5:ARG:NH1	49:DI:29:LEU:O	2.34	0.60
63:D4:165:G:H2'	63:D4:166:G:H8	1.66	0.60
6:UD:184:MET:HG3	6:UD:223:GLY:O	2.01	0.60
14:UL:672:VAL:O	14:UL:682:ARG:O	2.20	0.60
16:UN:780:ASP:OD1	16:UN:781:ASP:N	2.35	0.60
22:UT:518:MET:O	22:UT:521:THR:OG1	2.15	0.60
22:UT:1385:ASN:O	22:UT:1388:SER:OG	2.14	0.60
22:UT:2239:LEU:HD11	22:UT:2254:VAL:HG11	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UU:254:LEU:HD12	23:UU:264:LEU:HD11	1.81	0.60
27:CE:28:LEU:HA	27:CE:33:ASP:HB2	1.82	0.60
33:CL:301:ILE:HD12	33:CL:791:ILE:HG22	1.84	0.60
3:UA:344:HIS:ND1	3:UA:364:SER:OG	2.35	0.60
12:UJ:797:LEU:HD12	12:UJ:801:ILE:HG21	1.83	0.60
13:UK:35:VAL:O	13:UK:39:GLN:HG2	2.02	0.60
14:UL:49:VAL:O	14:UL:62:LYS:HA	2.02	0.60
17:UO:492:ARG:HA	17:UO:495:ILE:HD12	1.82	0.60
19:UQ:174:TYR:CD1	19:UQ:189:HIS:HA	2.37	0.60
20:UR:534:SER:HB3	20:UR:540:ALA:HB1	1.82	0.60
25:UX:115:ILE:HD11	57:DW:99:PHE:CE2	2.37	0.60
29:CH:474:TRP:O	29:CH:491:SER:OG	2.12	0.60
29:CH:477:SER:OG	29:CH:521:VAL:O	2.20	0.60
31:CJ:138:ASP:OD2	31:CJ:209:LEU:HD23	2.01	0.60
40:JL:131:TYR:HA	40:JL:134:SER:HB3	1.84	0.60
54:DQ:38:LEU:HA	54:DQ:45:ARG:HH22	1.66	0.60
56:DT:127:ASN:OD1	56:DT:128:GLY:N	2.35	0.60
74:EK:81:ALA:HB1	74:EK:82:PRO:HA	1.83	0.60
1:CB:164:ILE:HG23	1:CB:170:VAL:HG21	1.84	0.60
6:UD:89:MET:HE1	6:UD:91:ILE:HD11	1.82	0.60
7:UE:229:GLU:OE2	23:UU:503:ARG:NH1	2.34	0.60
7:UE:484:LEU:HD22	7:UE:498:LEU:HD11	1.83	0.60
13:UK:230:LYS:HG2	13:UK:244:TRP:NE1	2.16	0.60
15:UM:194:ARG:HD3	15:UM:216:ARG:HH11	1.66	0.60
20:UR:433:TRP:CD1	20:UR:446:ARG:HD2	2.37	0.60
22:UT:581:LEU:O	22:UT:584:SER:OG	2.19	0.60
22:UT:1301:ILE:HG13	22:UT:1302:SER:N	2.17	0.60
22:UT:1675:LYS:HE3	22:UT:1716:MET:HE1	1.83	0.60
24:UV:627:LEU:HD13	24:UV:671:THR:HG23	1.83	0.60
28:CF:57:ASP:OD2	28:CF:84:ARG:NH1	2.35	0.60
33:CL:87:ARG:NH1	33:CL:98:LEU:O	2.35	0.60
35:CN:59:PRO:O	35:CN:62:SER:OG	2.17	0.60
36:JD:1105:LYS:HD3	36:JD:1114:ASN:HD21	1.65	0.60
37:JF:41:MET:HB3	37:JF:110:LEU:HB3	1.83	0.60
37:JF:144:LEU:HB2	37:JF:150:ILE:HD11	1.83	0.60
1:CA:97:TYR:HB2	1:CA:107:VAL:HG23	1.82	0.59
3:UA:265:CYS:SG	3:UA:308:VAL:HG23	2.42	0.59
9:UG:546:ILE:HD11	24:UV:808:LEU:HD22	1.82	0.59
15:UM:30:LYS:HB2	15:UM:31:ILE:HD12	1.82	0.59
22:UT:2011:ILE:N	22:UT:2050:TYR:OH	2.28	0.59
24:UV:416:PHE:HB3	24:UV:420:GLN:CB	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UV:858:ARG:HH21	62:D3:1058:U:H3	1.50	0.59
27:CE:158:LYS:HA	27:CE:283:ILE:HG12	1.83	0.59
33:CL:1110:ARG:O	33:CL:1114:GLN:HG2	2.02	0.59
36:JD:539:ARG:HH12	36:JD:552:LYS:HB2	1.67	0.59
36:JD:928:VAL:HB	36:JD:1046:MET:HE3	1.84	0.59
44:JJ:270:LEU:HG	44:JJ:273:ARG:HE	1.67	0.59
47:DG:24:ILE:HG22	47:DG:28:PHE:CE1	2.37	0.59
56:DT:99:SER:HB2	56:DT:103:LYS:NZ	2.17	0.59
1:CA:124:SER:OG	41:JM:151:THR:OG1	2.20	0.59
2:DA:32:ILE:HG22	2:DA:96:LEU:HB2	1.84	0.59
2:DA:128:LYS:NZ	24:UV:1010:GLU:OE2	2.34	0.59
4:UB:48:ILE:O	4:UB:52:ARG:HG2	2.02	0.59
10:UH:553:GLN:OE1	10:UH:557:THR:OG1	2.19	0.59
19:UQ:168:LEU:HD13	19:UQ:195:ASN:HB2	1.83	0.59
21:US:281:LEU:HA	21:US:285:ILE:HB	1.84	0.59
28:CG:19:GLN:OE1	28:CG:120:LYS:HE3	2.02	0.59
36:JD:415:GLU:OE2	36:JD:812:ARG:NH1	2.35	0.59
40:JL:59:VAL:HG13	40:JL:122:PHE:HA	1.82	0.59
46:DF:154:ALA:HB1	46:DF:156:ARG:HH22	1.66	0.59
4:UB:705:HIS:CD2	21:US:487:PRO:HD3	2.37	0.59
5:UC:540:ILE:HB	5:UC:544:ILE:HD11	1.85	0.59
14:UL:473:ASP:N	14:UL:494:ASP:OD2	2.31	0.59
15:UM:17:ALA:HB3	15:UM:36:VAL:HG23	1.83	0.59
17:UO:60:SER:HA	17:UO:83:VAL:HG23	1.85	0.59
19:UQ:197:ILE:HB	19:UQ:211:MET:HG3	1.84	0.59
19:UQ:342:ILE:HD11	19:UQ:359:GLN:HB2	1.85	0.59
19:UQ:583:LYS:HE2	19:UQ:599:ILE:HD12	1.83	0.59
22:UT:326:SER:HG	22:UT:328:ARG:HE	1.48	0.59
22:UT:1214:ASP:OD1	22:UT:1215:HIS:N	2.34	0.59
24:UV:1159:ASN:HD22	24:UV:1201:ASP:HB3	1.67	0.59
35:CN:168:PHE:HA	35:CN:171:PHE:CD2	2.37	0.59
37:JG:164:LYS:HB3	62:D3:1575:G:H5"	1.84	0.59
47:DG:56:ASN:HD22	62:D3:154:G:H1'	1.66	0.59
47:DG:214:LYS:O	47:DG:218:GLU:HG2	2.03	0.59
50:DJ:127:VAL:O	50:DJ:131:GLN:HG2	2.02	0.59
6:UD:44:ALA:HB3	6:UD:71:ARG:HB3	1.85	0.59
12:UJ:1699:CYS:SG	12:UJ:1700:SER:N	2.74	0.59
14:UL:249:GLU:CD	14:UL:250:LYS:H	2.08	0.59
14:UL:750:GLU:OE2	60:Dc:64:ARG:NH2	2.35	0.59
17:UO:259:ASP:HB2	17:UO:273:ILE:HD11	1.84	0.59
21:US:220:LEU:O	21:US:224:ASN:ND2	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:268:PRO:O	22:UT:271:SER:OG	2.12	0.59
22:UT:1173:LEU:O	22:UT:1176:THR:OG1	2.16	0.59
22:UT:1408:ASP:OD1	22:UT:1409:SER:N	2.32	0.59
23:UU:476:PHE:CD1	23:UU:486:ILE:HG12	2.35	0.59
24:UV:577:ARG:NH2	24:UV:626:LYS:O	2.33	0.59
30:CI:93:LYS:HE3	30:CI:95:SER:HB3	1.84	0.59
32:CK:515:MET:HE2	32:CK:515:MET:HA	1.84	0.59
35:CN:221:LYS:HE3	62:D3:1058:U:H1'	1.84	0.59
37:JG:88:ARG:HH22	37:JG:210:ALA:H	1.50	0.59
45:DE:60:GLU:OE2	59:DY:20:ARG:NH2	2.26	0.59
46:DF:146:THR:HA	46:DF:158:GLN:O	2.02	0.59
62:D3:434:G:H21	62:D3:435:C:H41	1.50	0.59
62:D3:922:G:H2'	62:D3:923:A:C8	2.37	0.59
2:DA:186:SER:OG	24:UV:738:TYR:OH	2.19	0.59
6:UD:306:GLN:HG2	6:UD:364:PHE:CD2	2.37	0.59
7:UE:364:THR:HA	17:UO:15:LEU:HD22	1.85	0.59
12:UJ:1380:LEU:HD21	12:UJ:1400:ILE:HG23	1.84	0.59
12:UJ:1658:ILE:HD12	12:UJ:1666:LEU:HD22	1.85	0.59
14:UL:335:LEU:HD23	14:UL:335:LEU:H	1.67	0.59
14:UL:417:TRP:CD1	14:UL:424:CYS:HA	2.38	0.59
14:UL:913:ASN:O	14:UL:917:ASN:HB3	2.01	0.59
15:UM:12:LEU:HB3	15:UM:641:PHE:HB2	1.84	0.59
19:UQ:318:GLU:HG3	19:UQ:320:VAL:HG12	1.85	0.59
26:CD:247:ILE:HD13	26:CD:250:ARG:HD2	1.83	0.59
33:CL:935:VAL:HG12	33:CL:1002:ILE:HG22	1.85	0.59
35:CN:217:GLY:N	43:Db:75:GLU:OE2	2.32	0.59
37:JG:91:ILE:O	37:JG:94:GLN:NE2	2.35	0.59
40:JL:233:ARG:NH1	62:D3:1776:A:O2'	2.24	0.59
53:DO:18:ARG:HE	53:DO:31:THR:HG21	1.67	0.59
62:D3:1677:C:H42	62:D3:1724:U:H3	1.50	0.59
3:UA:376:SER:O	3:UA:378:PHE:N	2.36	0.59
7:UE:197:ILE:HG22	7:UE:198:THR:HG23	1.84	0.59
7:UE:255:ILE:HG12	7:UE:277:LYS:HB2	1.83	0.59
10:UH:574:ARG:HB2	10:UH:578:LEU:HD21	1.83	0.59
15:UM:791:ARG:HH22	32:CK:493:GLN:CD	2.10	0.59
19:UQ:265:ASP:OD2	19:UQ:268:GLY:N	2.23	0.59
21:US:329:ARG:HH11	21:US:330:PHE:HD2	1.51	0.59
22:UT:2237:THR:O	22:UT:2240:LEU:HB2	2.03	0.59
24:UV:1169:ILE:HG12	24:UV:1180:ASN:HD21	1.67	0.59
33:CL:1074:GLN:HA	33:CL:1077:LEU:HD13	1.84	0.59
36:JD:1188:LEU:HD22	36:JD:1215:PRO:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:JF:247:ASP:OD2	37:JG:240:LYS:NZ	2.36	0.59
42:JP:398:GLU:O	42:JP:402:GLU:HG3	2.02	0.59
46:DF:48:PHE:CD2	46:DF:67:PRO:HA	2.38	0.59
58:DX:3:LYS:NZ	62:D3:614:C:OP1	2.25	0.59
1:CA:325:LEU:HG	25:UX:131:SER:HB3	1.84	0.59
1:CB:307:GLU:CD	1:CB:308:PRO:HD3	2.28	0.59
4:UB:552:GLN:HA	4:UB:555:ARG:HG2	1.85	0.59
7:UE:209:ASP:OD1	7:UE:210:ARG:N	2.36	0.59
19:UQ:133:LYS:H	19:UQ:183:LYS:HZ3	1.50	0.59
19:UQ:768:TRP:HA	19:UQ:774:PHE:HA	1.84	0.59
20:UR:400:ILE:HB	20:UR:433:TRP:HZ3	1.66	0.59
22:UT:524:LYS:HD3	22:UT:557:GLY:HA2	1.84	0.59
22:UT:1602:ASP:OD1	22:UT:1603:ASP:N	2.29	0.59
29:CH:366:GLN:NE2	29:CH:367:LYS:HG2	2.16	0.59
42:JP:327:LYS:HD2	42:JP:349:GLN:HG2	1.85	0.59
5:UC:559:ARG:NH2	62:D3:545:A:H5'	2.18	0.59
6:UD:184:MET:HE3	28:CF:124:LEU:HD11	1.84	0.59
10:UH:592:ARG:NH1	17:UO:509:GLN:HB3	2.18	0.59
10:UH:592:ARG:NH1	10:UH:643:ASP:OD2	2.35	0.59
13:UK:61:ASP:OD2	30:CI:160:TRP:NE1	2.35	0.59
14:UL:180:THR:OG1	14:UL:207:CYS:SG	2.61	0.59
15:UM:532:HIS:CD2	15:UM:533:LYS:H	2.20	0.59
17:UO:375:HIS:CD2	20:UR:339:ILE:HD11	2.37	0.59
22:UT:678:TRP:HH2	47:DG:146:GLY:HA3	1.68	0.59
22:UT:1665:LEU:HD22	22:UT:1669:TYR:CD2	2.38	0.59
23:UU:715:GLN:NE2	23:UU:717:ASP:O	2.30	0.59
24:UV:971:LYS:NZ	24:UV:1032:PRO:O	2.28	0.59
36:JD:929:ALA:HB1	36:JD:1010:VAL:HG11	1.85	0.59
38:JH:260:TYR:HA	38:JH:306:ALA:HB2	1.84	0.59
47:DG:5:ILE:HG23	47:DG:124:LEU:HD21	1.84	0.59
62:D3:827:C:H2'	62:D3:828:U:C6	2.37	0.59
3:UA:84:PHE:O	3:UA:86:ALA:N	2.36	0.59
3:UA:842:ASN:OD1	23:UU:886:SER:HB2	2.03	0.59
12:UJ:745:TYR:CE2	12:UJ:747:GLN:HB3	2.38	0.59
14:UL:680:SER:HG	14:UL:682:ARG:HE	1.50	0.59
21:US:155:LEU:HD22	21:US:176:ILE:HD12	1.84	0.59
22:UT:1271:LEU:HA	22:UT:1274:THR:HG22	1.83	0.59
22:UT:1428:THR:O	22:UT:1429:LYS:HG3	2.02	0.59
22:UT:1439:ILE:HG21	22:UT:1474:HIS:ND1	2.18	0.59
22:UT:2440:ARG:HB3	22:UT:2444:ARG:HH12	1.67	0.59
23:UU:704:ASP:OD1	23:UU:705:ILE:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UV:1152:TYR:HA	24:UV:1155:LEU:HD12	1.85	0.59
29:CH:123:GLU:O	29:CH:126:ALA:N	2.36	0.59
33:CL:74:VAL:HG12	33:CL:82:LYS:HG3	1.85	0.59
33:CL:244:MET:HB3	33:CL:275:LEU:HD23	1.84	0.59
34:CM:142:GLU:HA	34:CM:146:VAL:O	2.02	0.59
40:JL:189:MET:O	40:JL:205:SER:OG	2.17	0.59
62:D3:575:C:O2'	62:D3:576:G:H8	1.77	0.59
62:D3:1112:G:H1	63:D4:12:U:H3	1.51	0.59
1:CB:171:LEU:N	1:CB:237:VAL:HG21	2.17	0.59
6:UD:271:THR:HG23	20:UR:446:ARG:HH11	1.67	0.59
7:UE:145:CYS:HB3	7:UE:148:LEU:HD21	1.84	0.59
9:UG:112:GLY:HA3	9:UG:130:ARG:HB3	1.85	0.59
12:UJ:70:SER:HA	12:UJ:74:PHE:HB2	1.85	0.59
15:UM:300:SER:OG	15:UM:316:VAL:O	2.21	0.59
15:UM:446:VAL:HG13	15:UM:448:LYS:HG2	1.85	0.59
15:UM:446:VAL:N	15:UM:452:GLU:OE2	2.35	0.59
17:UO:366:TYR:CE2	17:UO:368:GLY:HA2	2.37	0.59
22:UT:483:ALA:O	22:UT:525:ILE:HD11	2.02	0.59
22:UT:1801:ASN:ND2	22:UT:1882:ARG:HH21	2.00	0.59
23:UU:125:GLY:HA2	27:CE:430:ASP:HA	1.84	0.59
24:UV:558:LEU:HD22	24:UV:608:PHE:HE2	1.68	0.59
28:CF:19:GLN:OE1	28:CF:120:LYS:HE3	2.02	0.59
36:JD:116:LYS:HE2	36:JD:120:TYR:CE2	2.38	0.59
37:JF:45:LEU:HD11	37:JF:208:ALA:HB2	1.85	0.59
49:DI:113:PHE:CE2	49:DI:117:TYR:HD2	2.21	0.59
50:DJ:109:LEU:HB2	50:DJ:146:PHE:HB3	1.84	0.59
62:D3:575:C:O2'	62:D3:576:G:O5'	2.21	0.59
62:D3:700:C:H42	62:D3:737:A:H61	1.51	0.59
4:UB:523:ILE:HD13	21:US:506:LEU:HD22	1.85	0.58
12:UJ:279:MET:HE2	12:UJ:299:ILE:HG23	1.85	0.58
14:UL:7:ARG:HH22	14:UL:71:ALA:HA	1.68	0.58
17:UO:279:GLY:H	17:UO:302:VAL:H	1.50	0.58
22:UT:262:ALA:O	22:UT:313:ARG:NH1	2.36	0.58
22:UT:490:LYS:HA	22:UT:527:ARG:HH12	1.68	0.58
22:UT:524:LYS:NZ	22:UT:556:ARG:HB3	2.17	0.58
22:UT:1301:ILE:HG13	22:UT:1302:SER:H	1.68	0.58
24:UV:940:LYS:C	24:UV:940:LYS:HD3	2.28	0.58
31:CJ:278:ARG:HH11	62:D3:564:G:P	2.25	0.58
46:DF:143:ARG:HD3	60:Dc:55:VAL:HG11	1.85	0.58
48:DH:99:LEU:HD23	48:DH:99:LEU:H	1.68	0.58
54:DQ:41:PRO:O	54:DQ:43:ILE:HD12	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UA:30:LEU:HD11	3:UA:63:LEU:HD22	1.85	0.58
1:CB:114:GLY:N	1:CB:140:GLU:OE2	2.30	0.58
15:UM:365:ILE:HG22	15:UM:381:VAL:HG12	1.85	0.58
22:UT:287:SER:O	22:UT:290:SER:OG	2.19	0.58
22:UT:655:ASP:OD1	22:UT:656:LYS:N	2.36	0.58
22:UT:1325:LEU:HG	22:UT:1328:PHE:HD2	1.68	0.58
22:UT:1791:GLU:OE2	22:UT:1794:ARG:NH2	2.36	0.58
22:UT:2455:ALA:HA	22:UT:2458:ILE:HD12	1.85	0.58
24:UV:1204:VAL:HA	24:UV:1214:LEU:HA	1.84	0.58
27:CE:84:LYS:HE3	27:CE:106:ASN:HB2	1.85	0.58
28:CG:57:ASP:OD2	28:CG:84:ARG:NH1	2.35	0.58
29:CH:438:ILE:H	29:CH:438:ILE:HD12	1.68	0.58
30:CI:156:ASP:OD2	31:CJ:3:ARG:HG2	2.02	0.58
31:CJ:139:LEU:HB2	31:CJ:157:PHE:CE2	2.37	0.58
33:CL:280:LEU:HD12	33:CL:281:PRO:HD2	1.83	0.58
42:JP:263:ARG:NH2	42:JP:282:GLU:OE1	2.35	0.58
75:EN:642:ASN:O	75:EN:646:TYR:N	2.33	0.58
3:UA:212:ASP:OD2	3:UA:213:GLY:N	2.37	0.58
1:CB:171:LEU:HB2	1:CB:237:VAL:HG21	1.86	0.58
6:UD:395:SER:OG	6:UD:398:THR:OG1	2.18	0.58
6:UD:637:PHE:CE2	6:UD:746:LEU:HG	2.38	0.58
10:UH:571:PHE:HA	10:UH:610:PHE:CZ	2.39	0.58
12:UJ:75:SER:N	12:UJ:78:SER:OG	2.37	0.58
12:UJ:747:GLN:HA	12:UJ:750:ASN:HD21	1.68	0.58
14:UL:285:ARG:N	14:UL:327:HIS:O	2.27	0.58
15:UM:593:CYS:SG	15:UM:594:GLY:N	2.76	0.58
20:UR:449:ASP:OD1	20:UR:494:TYR:OH	2.17	0.58
23:UU:67:HIS:NE2	61:D2:292:A:OP1	2.36	0.58
23:UU:311:VAL:HG22	23:UU:321:GLU:HG2	1.83	0.58
24:UV:369:TRP:HE3	24:UV:370:LEU:HD12	1.67	0.58
36:JD:890:ASP:OD1	36:JD:894:MET:N	2.32	0.58
40:JL:114:PHE:HE2	40:JL:137:LEU:HD11	1.68	0.58
62:D3:163:G:OP2	62:D3:163:G:N2	2.32	0.58
6:UD:635:GLY:HA3	6:UD:649:TRP:CE2	2.39	0.58
12:UJ:167:PHE:CE2	12:UJ:178:THR:HG21	2.37	0.58
12:UJ:671:LEU:HD23	12:UJ:675:ASN:HD21	1.67	0.58
14:UL:281:ILE:HD11	14:UL:355:LEU:HD12	1.84	0.58
17:UO:414:THR:O	17:UO:418:LEU:HD23	2.02	0.58
22:UT:976:TYR:HD1	22:UT:985:ASN:HD22	1.51	0.58
22:UT:1289:ILE:HD13	22:UT:1305:VAL:HG11	1.85	0.58
24:UV:179:LYS:HD3	24:UV:213:LEU:HD21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CF:65:LEU:HD23	28:CF:65:LEU:O	2.03	0.58
32:CK:326:LEU:O	33:CL:930:LYS:NZ	2.36	0.58
36:JD:863:ILE:O	36:JD:873:ARG:NH1	2.37	0.58
36:JD:1208:GLU:OE2	36:JD:1237:HIS:NE2	2.34	0.58
54:DQ:5:PRO:HB3	54:DQ:96:TYR:CE2	2.39	0.58
1:CA:263:ASP:OD2	1:CA:264:GLN:HG2	2.04	0.58
3:UA:110:LEU:HB2	3:UA:122:TRP:O	2.04	0.58
1:CB:232:MET:SD	27:CE:7:GLU:HB3	2.43	0.58
1:CB:234:ILE:HG13	1:CB:260:PHE:HE1	1.65	0.58
6:UD:427:ASN:O	6:UD:444:ARG:NH1	2.36	0.58
10:UH:556:VAL:HG23	10:UH:557:THR:HG23	1.85	0.58
15:UM:89:HIS:HD2	15:UM:92:THR:H	1.49	0.58
15:UM:673:MET:CE	15:UM:693:ARG:HG2	2.33	0.58
22:UT:1592:PRO:O	22:UT:1596:LYS:HB3	2.04	0.58
23:UU:545:PRO:HB2	23:UU:563:ASP:OD2	2.04	0.58
28:CF:118:LYS:O	28:CF:122:GLU:HG3	2.04	0.58
29:CH:256:ARG:NH2	29:CH:282:GLU:OE1	2.37	0.58
31:CJ:191:PHE:HD1	31:CJ:203:VAL:HG22	1.68	0.58
3:UA:82:VAL:HG12	3:UA:89:VAL:HA	1.86	0.58
12:UJ:558:VAL:HG23	12:UJ:599:PHE:HB2	1.84	0.58
14:UL:552:ASP:OD1	14:UL:552:ASP:N	2.37	0.58
15:UM:389:ASP:HB3	15:UM:408:LYS:HB3	1.85	0.58
19:UQ:174:TYR:HB3	19:UQ:187:VAL:HG13	1.86	0.58
21:US:400:PRO:HB2	21:US:495:MET:SD	2.44	0.58
23:UU:178:ASN:HD22	23:UU:194:ARG:HG2	1.68	0.58
24:UV:927:GLY:O	24:UV:1151:LYS:NZ	2.37	0.58
28:CG:42:LYS:O	28:CG:46:ARG:HD2	2.04	0.58
34:CM:246:VAL:HG12	34:CM:257:PHE:HB3	1.85	0.58
36:JD:1116:PRO:HD2	36:JD:1134:TYR:CE1	2.38	0.58
40:JL:282:ASP:O	40:JL:286:LYS:HG2	2.04	0.58
42:JP:73:ILE:HG12	42:JP:85:THR:HG22	1.85	0.58
59:DY:37:LYS:NZ	62:D3:523:G:OP2	2.27	0.58
61:D2:286:U:H2'	61:D2:287:G:C8	2.39	0.58
75:EN:870:ILE:O	75:EN:873:SER:CB	2.51	0.58
1:CA:182:SER:HB3	1:CA:210:MET:SD	2.43	0.58
2:DA:216:LYS:NZ	62:D3:885:G:OP1	2.36	0.58
1:CB:244:VAL:HG22	1:CB:246:GLN:H	1.68	0.58
7:UE:299:ASP:OD2	7:UE:320:ARG:NH2	2.36	0.58
7:UE:469:ILE:HG21	7:UE:505:CYS:HA	1.84	0.58
12:UJ:1370:TYR:O	12:UJ:1374:VAL:HG22	2.04	0.58
14:UL:52:TRP:HZ2	14:UL:362:ILE:HG13	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UL:386:GLU:O	14:UL:389:GLY:N	2.33	0.58
15:UM:176:ASP:OD1	15:UM:177:LEU:N	2.37	0.58
15:UM:490:HIS:CG	15:UM:510:SER:HG	2.21	0.58
17:UO:123:SER:H	17:UO:150:ARG:HH12	1.51	0.58
20:UR:129:ASP:HB2	23:UU:194:ARG:HH12	1.69	0.58
22:UT:27:LYS:HG2	22:UT:28:ILE:H	1.68	0.58
24:UV:1081:ASN:O	24:UV:1084:THR:OG1	2.18	0.58
31:CJ:116:ARG:HH22	62:D3:1581:C:P	2.26	0.58
37:JF:180:LEU:HD22	37:JF:227:LEU:HD11	1.86	0.58
37:JG:85:SER:O	37:JG:88:ARG:NH1	2.37	0.58
59:DY:41:ARG:NH2	59:DY:52:LYS:O	2.37	0.58
62:D3:1699:G:H21	62:D3:1702:A:H62	1.51	0.58
67:ED:246:ALA:HA	67:ED:276:CYS:HA	1.84	0.58
4:UB:49:ALA:O	4:UB:52:ARG:HB2	2.04	0.58
6:UD:531:ILE:HG13	6:UD:545:ARG:HE	1.68	0.58
8:UF:299:LYS:HZ3	8:UF:300:MET:CE	2.15	0.58
15:UM:259:TYR:HE1	15:UM:293:VAL:HG11	1.69	0.58
15:UM:593:CYS:SG	15:UM:620:LEU:HD23	2.44	0.58
22:UT:1098:ASN:ND2	22:UT:1103:SER:HB3	2.18	0.58
22:UT:1966:PHE:O	22:UT:1970:THR:OG1	2.15	0.58
22:UT:2027:MET:SD	22:UT:2040:ARG:HG3	2.44	0.58
23:UU:468:MET:SD	23:UU:489:MET:HE2	2.43	0.58
23:UU:822:ARG:O	23:UU:825:SER:OG	2.17	0.58
34:CM:131:GLU:HG2	34:CM:194:VAL:HG11	1.85	0.58
36:JD:1137:PRO:HD3	36:JD:1166:ARG:HD3	1.85	0.58
37:JG:193:ILE:HD13	37:JG:245:ALA:HA	1.86	0.58
7:UE:99:PHE:HB3	7:UE:129:PHE:CE1	2.39	0.58
7:UE:319:TRP:CD1	7:UE:319:TRP:H	2.20	0.58
12:UJ:235:VAL:HG22	12:UJ:264:PHE:CE1	2.39	0.58
14:UL:103:ILE:HD12	14:UL:148:TRP:CZ3	2.39	0.58
15:UM:500:SER:OG	15:UM:502:ASN:OD1	2.13	0.58
20:UR:365:ASN:HB3	20:UR:368:THR:O	2.04	0.58
22:UT:323:PHE:HB2	22:UT:364:LEU:HD13	1.86	0.58
22:UT:2095:LEU:O	22:UT:2099:SER:CB	2.52	0.58
24:UV:215:GLU:N	24:UV:218:ASP:OD2	2.37	0.58
33:CL:931:LYS:HB2	33:CL:1006:TRP:HZ3	1.67	0.58
36:JD:723:GLN:HA	36:JD:726:ASN:HB3	1.85	0.58
37:JF:128:VAL:HG22	37:JF:159:LEU:HD12	1.86	0.58
48:DH:34:LEU:HA	48:DH:37:GLU:HB2	1.86	0.58
61:D2:20:C:H2'	61:D2:21:A:C8	2.39	0.58
3:UA:514:VAL:HG21	3:UA:518:VAL:HG13	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:347:LEU:HB3	6:UD:361:LEU:HD21	1.85	0.58
14:UL:330:GLN:HG2	14:UL:331:THR:H	1.68	0.58
14:UL:658:SER:HB3	14:UL:677:HIS:HB3	1.85	0.58
17:UO:32:SER:OG	17:UO:331:THR:OG1	2.12	0.58
20:UR:165:ARG:CZ	23:UU:236:ARG:HH12	2.17	0.58
20:UR:427:ASN:OD1	20:UR:428:ALA:N	2.36	0.58
22:UT:1311:TYR:HD1	22:UT:1324:ILE:HD13	1.68	0.58
22:UT:1499:ARG:HH22	22:UT:1542:LYS:HB2	1.69	0.58
22:UT:2006:LEU:O	22:UT:2009:LYS:C	2.47	0.58
23:UU:837:LEU:HA	23:UU:840:PHE:HD2	1.68	0.58
27:CE:125:PRO:HA	27:CE:128:LEU:HG	1.86	0.58
30:CI:137:ARG:HA	30:CI:142:LEU:HA	1.86	0.58
35:CN:46:ASN:ND2	35:CN:49:GLU:OE1	2.37	0.58
54:DQ:22:VAL:HG22	54:DQ:65:ILE:HG12	1.86	0.58
54:DQ:58:ASP:OD2	54:DQ:59:LYS:N	2.37	0.58
3:UA:415:ASP:OD1	3:UA:417:ILE:N	2.30	0.57
6:UD:309:GLN:NE2	6:UD:318:ASN:HA	2.19	0.57
6:UD:548:GLY:O	6:UD:566:LEU:N	2.37	0.57
7:UE:108:LYS:HE3	7:UE:122:SER:HB2	1.86	0.57
8:UF:278:MET:HG2	8:UF:341:PHE:CZ	2.39	0.57
12:UJ:772:VAL:HG11	12:UJ:801:ILE:HG12	1.85	0.57
15:UM:413:ILE:CG1	15:UM:415:TRP:HE1	2.17	0.57
15:UM:496:ALA:HB3	15:UM:509:ALA:HB3	1.86	0.57
17:UO:101:ALA:HA	17:UO:126:PRO:HB3	1.86	0.57
17:UO:253:LYS:HE2	17:UO:278:ASP:OD1	2.03	0.57
21:US:366:LEU:HD12	21:US:401:PHE:HZ	1.67	0.57
22:UT:133:ILE:HG22	22:UT:180:LEU:HD11	1.86	0.57
22:UT:790:GLU:OE1	22:UT:839:LYS:N	2.33	0.57
22:UT:918:GLU:O	22:UT:922:MET:HG2	2.04	0.57
23:UU:307:GLN:HG2	27:CE:421:MET:HG2	1.85	0.57
24:UV:592:PHE:HB3	24:UV:599:VAL:HG22	1.86	0.57
28:CF:42:LYS:O	28:CF:46:ARG:HD2	2.04	0.57
28:CG:65:LEU:O	28:CG:65:LEU:HD23	2.03	0.57
35:CN:16:VAL:N	35:CN:37:MET:O	2.34	0.57
36:JD:539:ARG:HE	36:JD:553:LEU:HD22	1.69	0.57
44:JJ:120:LEU:HD11	44:JJ:159:ILE:HD11	1.86	0.57
51:DL:79:LYS:NZ	62:D3:346:G:P	2.77	0.57
2:DA:3:VAL:H	53:DO:49:LYS:HA	1.68	0.57
4:UB:660:ILE:HA	21:US:388:LEU:HD21	1.86	0.57
5:UC:560:ASN:HB2	62:D3:477:A:OP1	2.04	0.57
8:UF:190:LEU:HA	8:UF:193:ILE:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UM:581:CYS:SG	15:UM:590:LEU:HD21	2.43	0.57
19:UQ:283:VAL:HA	19:UQ:289:GLN:O	2.04	0.57
19:UQ:436:PHE:O	19:UQ:764:SER:OG	2.20	0.57
22:UT:483:ALA:O	22:UT:486:PHE:N	2.37	0.57
31:CJ:191:PHE:CD1	31:CJ:203:VAL:HG22	2.40	0.57
45:DE:233:LYS:O	45:DE:233:LYS:HG3	2.05	0.57
62:D3:572:C:H5"	62:D3:573:C:C5	2.39	0.57
7:UE:355:ASN:O	19:UQ:471:GLN:NE2	2.36	0.57
7:UE:551:ILE:HG12	17:UO:484:MET:SD	2.43	0.57
9:UG:215:LYS:HB3	9:UG:224:LEU:HD11	1.86	0.57
12:UJ:1369:PHE:HD1	12:UJ:1372:LYS:HZ1	1.50	0.57
14:UL:623:PHE:HD1	14:UL:630:PHE:HB3	1.68	0.57
16:UN:337:GLU:OE1	16:UN:337:GLU:N	2.36	0.57
22:UT:590:MET:HE1	22:UT:667:PHE:C	2.30	0.57
22:UT:1012:ARG:HB2	22:UT:1068:PHE:CD1	2.39	0.57
22:UT:2021:ASP:OD1	22:UT:2024:ARG:NH1	2.37	0.57
22:UT:2139:GLU:HA	22:UT:2142:GLU:OE2	2.04	0.57
22:UT:2162:LEU:HD12	22:UT:2208:SER:HB2	1.86	0.57
25:UX:142:VAL:HG21	25:UX:163:ARG:HE	1.69	0.57
28:CG:118:LYS:O	28:CG:122:GLU:HG3	2.04	0.57
40:JL:128:ASN:HA	40:JL:154:MET:CG	2.33	0.57
44:JJ:102:PRO:HD2	44:JJ:163:THR:HG23	1.87	0.57
51:DL:79:LYS:HD3	62:D3:346:G:H5'	1.86	0.57
62:D3:1663:G:H1	62:D3:1738:U:H3	1.52	0.57
75:EN:794:LEU:O	75:EN:798:ASN:N	2.35	0.57
1:CA:263:ASP:OD2	1:CA:264:GLN:N	2.37	0.57
3:UA:130:ASP:OD2	3:UA:131:ARG:N	2.36	0.57
3:UA:563:ARG:NH2	3:UA:569:PHE:O	2.37	0.57
4:UB:520:PRO:O	4:UB:524:LEU:HG	2.04	0.57
8:UF:299:LYS:HD2	8:UF:300:MET:HG2	1.87	0.57
13:UK:167:THR:HB	13:UK:170:GLN:HG3	1.86	0.57
15:UM:626:MET:O	15:UM:630:ASP:HA	2.04	0.57
17:UO:132:PHE:HA	17:UO:140:LEU:HD13	1.86	0.57
21:US:411:ASN:O	21:US:411:ASN:ND2	2.38	0.57
22:UT:1776:LEU:O	22:UT:1779:VAL:O	2.22	0.57
22:UT:2234:GLY:O	22:UT:2237:THR:OG1	2.18	0.57
23:UU:858:PHE:CD2	23:UU:905:ILE:HD11	2.39	0.57
24:UV:439:HIS:ND1	24:UV:460:GLU:O	2.33	0.57
28:CF:61:ILE:HD12	28:CF:64:LEU:HD21	1.86	0.57
31:CJ:116:ARG:NH2	62:D3:1581:C:OP1	2.36	0.57
36:JD:1079:LEU:O	36:JD:1083:MET:HG3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JL:67:THR:O	40:JL:97:ARG:NH1	2.37	0.57
43:Db:24:LEU:HD21	57:DW:53:ILE:HD13	1.87	0.57
55:DS:101:LEU:HA	55:DS:104:ASN:HD21	1.68	0.57
7:UE:126:PHE:HB2	7:UE:140:PHE:HD2	1.70	0.57
12:UJ:1507:LEU:HD12	12:UJ:1528:VAL:HG21	1.86	0.57
14:UL:224:SER:HB2	14:UL:251:GLN:HG2	1.86	0.57
14:UL:912:TRP:CD2	15:UM:779:VAL:HG21	2.39	0.57
15:UM:576:ASN:OD1	15:UM:577:ALA:N	2.38	0.57
15:UM:588:LYS:O	15:UM:604:CYS:N	2.38	0.57
17:UO:215:VAL:HA	17:UO:230:GLY:HA3	1.86	0.57
22:UT:1181:ILE:HD11	22:UT:1185:LEU:HD21	1.86	0.57
22:UT:1200:ASN:HA	22:UT:1242:LYS:HZ3	1.70	0.57
22:UT:1766:PHE:CZ	22:UT:1800:LEU:HD21	2.36	0.57
22:UT:2228:PHE:HB3	22:UT:2232:TRP:HZ3	1.69	0.57
23:UU:370:SER:OG	23:UU:371:LYS:N	2.37	0.57
25:UX:77:GLN:O	62:D3:1098:U:O2'	2.18	0.57
33:CL:734:GLU:HB3	33:CL:737:ASN:HD21	1.68	0.57
34:CM:146:VAL:HG13	34:CM:172:SER:HB2	1.86	0.57
36:JD:1077:ILE:HG22	36:JD:1081:LYS:HE3	1.84	0.57
63:D4:202:G:H2'	63:D4:203:U:C6	2.39	0.57
66:EC:15:ASP:O	74:EK:40:TYR:CB	2.52	0.57
4:UB:475:ARG:HH12	4:UB:517:VAL:HG22	1.69	0.57
9:UG:197:ASP:OD1	9:UG:198:PHE:N	2.37	0.57
12:UJ:559:ASN:ND2	12:UJ:594:SER:OG	2.37	0.57
12:UJ:1453:VAL:O	12:UJ:1457:LEU:HG	2.04	0.57
14:UL:414:LEU:HD12	14:UL:447:LEU:HD11	1.87	0.57
14:UL:451:ASN:O	14:UL:453:GLU:N	2.37	0.57
17:UO:148:VAL:HG12	17:UO:165:THR:HG23	1.86	0.57
17:UO:500:GLU:O	17:UO:504:ILE:HG12	2.03	0.57
19:UQ:670:LEU:HB2	19:UQ:683:LEU:HD21	1.86	0.57
22:UT:1264:LEU:HD12	22:UT:1268:ILE:HD11	1.87	0.57
22:UT:1341:GLU:HA	22:UT:1344:TRP:HB2	1.87	0.57
22:UT:1360:GLU:C	22:UT:1362:ALA:H	2.12	0.57
22:UT:1477:LYS:HD3	22:UT:1479:ASN:H	1.70	0.57
22:UT:1795:ARG:NH2	62:D3:686:C:O3'	2.38	0.57
24:UV:201:SER:OG	24:UV:202:SER:N	2.38	0.57
31:CJ:278:ARG:HA	62:D3:1596:C:C5	2.39	0.57
35:CN:131:ALA:O	35:CN:135:ASN:ND2	2.37	0.57
36:JD:369:SER:HA	36:JD:372:LYS:HG2	1.87	0.57
36:JD:1020:GLN:HA	36:JD:1023:ILE:HG12	1.87	0.57
40:JL:174:ARG:HG3	40:JL:227:LEU:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:D3:514:G:H1	62:D3:543:C:H5	1.52	0.57
75:EN:205:SER:O	75:EN:209:TYR:N	2.33	0.57
3:UA:4:ASP:OD1	3:UA:6:LYS:NZ	2.35	0.57
3:UA:833:LYS:HA	3:UA:836:VAL:HG12	1.87	0.57
7:UE:110:ILE:HD11	7:UE:117:LEU:HD21	1.87	0.57
8:UF:190:LEU:HD11	8:UF:323:PHE:HE1	1.70	0.57
10:UH:341:LEU:CA	10:UH:358:VAL:O	2.49	0.57
14:UL:809:LEU:O	14:UL:812:ILE:HG22	2.03	0.57
15:UM:580:ARG:HB2	15:UM:593:CYS:HB3	1.86	0.57
15:UM:791:ARG:HH22	32:CK:493:GLN:NE2	2.03	0.57
16:UN:780:ASP:OD2	16:UN:818:LYS:HB2	2.05	0.57
17:UO:88:SER:OG	17:UO:130:THR:O	2.21	0.57
22:UT:1095:SER:HA	22:UT:1136:THR:HG22	1.86	0.57
22:UT:2424:SER:O	22:UT:2427:THR:OG1	2.18	0.57
23:UU:417:LEU:HD12	23:UU:432:THR:HG22	1.86	0.57
24:UV:135:LEU:O	24:UV:180:LYS:NZ	2.37	0.57
24:UV:623:GLU:HB3	24:UV:626:LYS:HZ1	1.70	0.57
36:JD:801:VAL:HG11	36:JD:809:ARG:HH12	1.69	0.57
36:JD:1136:HIS:HA	36:JD:1166:ARG:HD3	1.86	0.57
42:JP:220:ASP:OD1	48:DH:141:ARG:NH1	2.37	0.57
48:DH:97:ARG:NH2	48:DH:99:LEU:O	2.37	0.57
62:D3:901:G:C6	62:D3:902:G:N1	2.72	0.57
62:D3:991:G:N1	62:D3:1012:U:OP2	2.35	0.57
9:UG:133:HIS:NE2	9:UG:147:GLU:OE2	2.38	0.57
15:UM:104:PRO:HG3	53:DO:72:LYS:HE3	1.85	0.57
16:UN:787:THR:HG22	16:UN:808:PHE:HB2	1.85	0.57
18:UP:169:ASP:HB3	18:UP:180:LEU:HD23	1.85	0.57
20:UR:433:TRP:HD1	20:UR:446:ARG:HD2	1.68	0.57
22:UT:1328:PHE:CE1	22:UT:1363:LEU:HG	2.40	0.57
23:UU:209:ILE:HG21	23:UU:223:LEU:HD23	1.85	0.57
23:UU:798:ALA:O	23:UU:802:MET:HB2	2.05	0.57
26:CD:215:THR:HA	26:CD:218:LYS:HG2	1.86	0.57
32:CK:345:LEU:HD23	32:CK:345:LEU:H	1.69	0.57
48:DH:130:VAL:HG21	48:DH:135:ILE:HG13	1.87	0.57
51:DL:22:ASN:OD1	51:DL:24:LYS:N	2.38	0.57
56:DT:77:ASN:OD1	56:DT:101:ASN:ND2	2.38	0.57
59:DY:109:LYS:NZ	62:D3:459:G:OP1	2.37	0.57
60:Dc:22:ARG:HH11	60:Dc:22:ARG:HG3	1.70	0.57
75:EN:810:PRO:O	75:EN:816:ILE:N	2.38	0.57
75:EN:863:MET:O	75:EN:867:LYS:N	2.37	0.57
2:DA:124:ASN:HD21	62:D3:884:A:H4'	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UB:56:ASN:ND2	32:CK:366:GLU:OE1	2.37	0.57
6:UD:476:LYS:N	6:UD:489:CYS:O	2.31	0.57
8:UF:4:THR:O	8:UF:8:LEU:HG	2.04	0.57
12:UJ:669:VAL:O	12:UJ:673:ASN:ND2	2.38	0.57
14:UL:392:THR:HG23	14:UL:409:ALA:HB1	1.87	0.57
16:UN:849:PHE:O	16:UN:851:PHE:N	2.38	0.57
19:UQ:204:ASN:HD21	19:UQ:266:ASN:HB3	1.68	0.57
22:UT:1412:GLU:N	22:UT:1412:GLU:OE2	2.35	0.57
23:UU:591:PHE:HA	23:UU:601:VAL:O	2.04	0.57
29:CH:334:GLU:HG3	29:CH:352:PRO:CG	2.34	0.57
29:CH:454:GLU:O	29:CH:460:ARG:NE	2.37	0.57
53:DO:20:TYR:CE1	53:DO:22:SER:HB2	2.37	0.57
62:D3:416:A:H5"	62:D3:417:A:N7	2.19	0.57
63:D4:102:U:H2'	63:D4:103:A:H8	1.70	0.57
1:CA:198:GLU:OE1	1:CA:200:SER:N	2.38	0.57
8:UF:46:ARG:HH12	63:D4:39:C:H1'	1.68	0.57
19:UQ:579:ASN:ND2	19:UQ:602:PRO:O	2.38	0.57
20:UR:163:ARG:O	20:UR:166:SER:OG	2.20	0.57
22:UT:436:PHE:HA	22:UT:439:VAL:HG22	1.85	0.57
22:UT:1278:ARG:NH1	22:UT:1316:MET:HB3	2.20	0.57
23:UU:178:ASN:ND2	23:UU:194:ARG:HG2	2.19	0.57
23:UU:717:ASP:HB3	23:UU:720:LEU:HD23	1.86	0.57
29:CH:546:GLU:OE1	29:CH:551:ARG:NE	2.38	0.57
40:JL:115:MET:HA	40:JL:115:MET:HE3	1.85	0.57
40:JL:302:ASP:OD1	40:JL:305:ARG:NH2	2.34	0.57
50:DJ:64:GLU:OE1	50:DJ:65:LYS:N	2.38	0.57
62:D3:505:A:N6	62:D3:586:G:O2'	2.31	0.57
6:UD:477:LEU:HB2	6:UD:489:CYS:HB3	1.87	0.56
9:UG:197:ASP:HB3	9:UG:238:MET:HE1	1.85	0.56
10:UH:599:MET:HE1	10:UH:640:LEU:HB3	1.86	0.56
14:UL:449:THR:OG1	14:UL:451:ASN:O	2.22	0.56
15:UM:517:ILE:HD11	15:UM:527:ALA:HB3	1.86	0.56
19:UQ:11:LYS:NZ	19:UQ:788:THR:O	2.38	0.56
19:UQ:359:GLN:O	19:UQ:368:ASP:O	2.22	0.56
20:UR:562:LEU:HD11	20:UR:579:VAL:HG11	1.87	0.56
22:UT:1336:TYR:C	22:UT:1337:LYS:HD3	2.29	0.56
24:UV:396:LEU:HD11	24:UV:429:LEU:HD21	1.87	0.56
24:UV:580:TYR:HB2	24:UV:618:ILE:HB	1.86	0.56
36:JD:416:THR:O	36:JD:815:ARG:NH1	2.38	0.56
36:JD:623:LEU:HD13	36:JD:758:ILE:HB	1.86	0.56
37:JF:49:SER:HB3	37:JF:87:ALA:HA	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JP:119:THR:OG1	42:JP:120:GLN:N	2.36	0.56
44:JJ:213:LYS:NZ	62:D3:1796:C:O2	2.37	0.56
63:D4:6:C:H2'	63:D4:7:G:C8	2.40	0.56
3:UA:48:PHE:HZ	3:UA:87:ARG:HG2	1.69	0.56
4:UB:16:ARG:NH2	4:UB:50:GLU:OE2	2.37	0.56
7:UE:147:GLN:O	7:UE:167:SER:OG	2.20	0.56
9:UG:73:TYR:CE1	42:JP:4:LYS:NZ	2.73	0.56
12:UJ:546:ASN:O	12:UJ:549:LYS:HG3	2.05	0.56
12:UJ:1555:ALA:O	12:UJ:1571:ARG:NH1	2.38	0.56
14:UL:680:SER:OG	14:UL:682:ARG:NE	2.34	0.56
17:UO:36:VAL:HG12	17:UO:327:LEU:HB2	1.87	0.56
19:UQ:408:THR:HG21	19:UQ:488:LEU:HB2	1.87	0.56
22:UT:15:ARG:NH1	62:D3:61:A:H5'	2.19	0.56
22:UT:793:PHE:HD1	22:UT:796:ILE:HB	1.70	0.56
22:UT:1197:THR:O	22:UT:1201:LEU:HD13	2.04	0.56
24:UV:813:GLU:OE1	24:UV:817:ASN:ND2	2.39	0.56
24:UV:826:SER:OG	24:UV:839:THR:OG1	2.23	0.56
24:UV:1098:PHE:CZ	24:UV:1184:GLY:HA3	2.40	0.56
25:UX:56:ASN:ND2	25:UX:169:GLY:O	2.26	0.56
33:CL:322:ARG:HH12	62:D3:416:A:H5'	1.70	0.56
33:CL:625:TRP:CZ3	34:CM:281:GLU:HA	2.40	0.56
34:CM:59:VAL:HG23	34:CM:83:GLY:HA2	1.88	0.56
37:JF:88:ARG:O	37:JF:91:ILE:HG22	2.05	0.56
37:JG:100:LEU:HD23	37:JG:130:ILE:HG12	1.87	0.56
44:JJ:148:ASP:OD2	44:JJ:150:GLY:N	2.36	0.56
45:DE:136:VAL:HG21	45:DE:148:ARG:NH2	2.20	0.56
48:DH:133:THR:HG21	48:DH:162:ILE:HG21	1.87	0.56
61:D2:6:A:O2'	61:D2:7:A:N7	2.38	0.56
2:DA:47:LEU:O	2:DA:64:ARG:NH2	2.37	0.56
2:DA:148:ASN:OD1	62:D3:1066:C:O2'	2.14	0.56
3:UA:222:LYS:HA	3:UA:246:TYR:HB2	1.86	0.56
1:CB:91:HIS:NE2	13:UK:163:GLU:O	2.27	0.56
4:UB:627:HIS:CE1	4:UB:632:CYS:HB2	2.41	0.56
6:UD:302:ARG:HD3	6:UD:330:GLY:C	2.30	0.56
6:UD:741:LEU:HA	6:UD:756:GLU:HA	1.85	0.56
9:UG:76:PRO:O	9:UG:77:GLU:HB2	2.04	0.56
10:UH:340:TYR:O	10:UH:358:VAL:O	2.24	0.56
10:UH:570:LEU:HD12	10:UH:582:ILE:HG22	1.88	0.56
12:UJ:176:ALA:O	12:UJ:180:ILE:HG12	2.04	0.56
12:UJ:286:LEU:HD21	12:UJ:292:LYS:HA	1.87	0.56
12:UJ:598:TYR:O	12:UJ:601:SER:OG	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:UJ:1528:VAL:HA	12:UJ:1531:ILE:HG12	1.87	0.56
12:UJ:1652:VAL:HG12	12:UJ:1694:HIS:CD2	2.40	0.56
14:UL:398:ASP:OD2	14:UL:438:PHE:N	2.38	0.56
15:UM:461:LEU:HD21	15:UM:489:ALA:N	2.20	0.56
15:UM:461:LEU:CD1	15:UM:490:HIS:H	2.18	0.56
17:UO:427:VAL:O	17:UO:431:LEU:HB2	2.05	0.56
19:UQ:332:GLN:NE2	61:D2:87:C:O2	2.38	0.56
19:UQ:510:TYR:HE1	19:UQ:527:HIS:HB3	1.70	0.56
22:UT:362:PHE:CD1	22:UT:381:LEU:HG	2.37	0.56
22:UT:592:PRO:O	22:UT:597:ARG:NH2	2.38	0.56
22:UT:1320:ASP:CG	22:UT:1323:ARG:HD3	2.30	0.56
22:UT:1471:GLU:OE1	22:UT:1517:HIS:ND1	2.38	0.56
22:UT:2448:ARG:NH2	62:D3:827:C:OP2	2.38	0.56
23:UU:318:SER:OG	23:UU:320:LYS:NZ	2.33	0.56
24:UV:103:PHE:O	24:UV:107:ILE:HG13	2.05	0.56
24:UV:439:HIS:CE1	24:UV:458:ILE:HB	2.40	0.56
24:UV:976:ILE:HD13	24:UV:1017:TYR:HD1	1.70	0.56
30:CI:5:LEU:HD13	30:CI:9:GLU:HG3	1.87	0.56
36:JD:885:TYR:HB2	36:JD:1124:ARG:HD2	1.87	0.56
42:JP:139:CYS:SG	42:JP:182:PHE:HB3	2.44	0.56
44:JJ:177:LEU:HD12	44:JJ:180:LEU:HG	1.85	0.56
44:JJ:204:ARG:NH1	44:JJ:250:LEU:O	2.39	0.56
45:DE:182:TYR:HB2	45:DE:228:ILE:HD11	1.86	0.56
53:DO:132:ARG:NH2	62:D3:1789:G:N7	2.54	0.56
55:DS:40:ARG:HH12	62:D3:1539:G:C1'	2.18	0.56
63:D4:202:G:N2	63:D4:247:U:O2	2.29	0.56
66:EC:162:SER:HA	66:EC:186:THR:HA	1.88	0.56
6:UD:37:ARG:NH1	6:UD:758:ASN:OD1	2.35	0.56
13:UK:134:THR:HG22	18:UP:177:ARG:HB3	1.86	0.56
17:UO:152:TRP:HE1	17:UO:160:PRO:HB3	1.71	0.56
19:UQ:586:SER:O	19:UQ:597:LYS:NZ	2.27	0.56
23:UU:764:GLY:HA2	23:UU:769:ASP:HB3	1.87	0.56
23:UU:793:GLN:NE2	23:UU:797:ASP:OD1	2.38	0.56
25:UX:50:ALA:O	25:UX:57:GLN:HG2	2.05	0.56
27:CE:80:LYS:HG2	27:CE:103:LEU:HD21	1.88	0.56
28:CG:65:LEU:O	28:CG:68:PRO:HD2	2.06	0.56
45:DE:11:ARG:NH1	45:DE:21:ASP:O	2.36	0.56
3:UA:259:ASN:CG	3:UA:260:GLN:H	2.14	0.56
6:UD:107:VAL:HG13	6:UD:110:GLU:HB2	1.87	0.56
11:UI:459:LEU:HD23	11:UI:467:LEU:HD11	1.86	0.56
12:UJ:180:ILE:HD11	19:UQ:876:PHE:CE2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UL:216:LEU:HD23	14:UL:216:LEU:H	1.71	0.56
15:UM:219:ILE:HD13	24:UV:657:ARG:HH11	1.71	0.56
15:UM:296:ILE:C	15:UM:298:SER:H	2.11	0.56
15:UM:303:PHE:HD1	15:UM:311:LEU:HD23	1.69	0.56
15:UM:546:LYS:HG3	15:UM:562:LEU:HD12	1.87	0.56
15:UM:787:PRO:HB2	32:CK:492:PRO:HG3	1.86	0.56
17:UO:44:HIS:HD2	17:UO:86:SER:HA	1.71	0.56
17:UO:426:LYS:HE2	17:UO:428:ARG:HB2	1.88	0.56
21:US:167:LYS:O	21:US:272:GLN:NE2	2.38	0.56
22:UT:316:LYS:O	22:UT:319:THR:OG1	2.23	0.56
23:UU:354:SER:O	23:UU:631:ASN:ND2	2.39	0.56
24:UV:669:TRP:CZ2	24:UV:681:ILE:HG12	2.41	0.56
32:CK:315:GLU:OE2	33:CL:1033:ARG:NH2	2.39	0.56
33:CL:879:THR:OG1	62:D3:572:C:N4	2.37	0.56
36:JD:462:VAL:HG13	36:JD:473:VAL:HG11	1.86	0.56
36:JD:885:TYR:CE2	36:JD:1090:ASP:HB3	2.41	0.56
36:JD:926:TYR:HD1	36:JD:1007:LEU:HD21	1.69	0.56
36:JD:1001:SER:HB3	36:JD:1004:PHE:HD2	1.71	0.56
36:JD:1036:GLU:HB2	36:JD:1040:LYS:HZ3	1.71	0.56
37:JG:43:VAL:HG23	37:JG:204:VAL:HG13	1.87	0.56
58:DX:3:LYS:HD3	58:DX:7:ARG:NH2	2.20	0.56
67:ED:243:LEU:N	67:ED:282:VAL:O	2.37	0.56
75:EN:419:CYS:O	75:EN:423:ALA:N	2.37	0.56
3:UA:386:HIS:CE1	3:UA:412:ARG:HD2	2.41	0.56
7:UE:453:LEU:HA	7:UE:456:VAL:HG12	1.88	0.56
7:UE:495:GLN:HA	7:UE:498:LEU:HB3	1.86	0.56
15:UM:571:LEU:HG	15:UM:602:TRP:CE2	2.41	0.56
20:UR:571:SER:HB2	20:UR:576:LEU:HB2	1.86	0.56
21:US:378:SER:OG	21:US:453:PRO:O	2.23	0.56
22:UT:1325:LEU:HD23	22:UT:2431:THR:HB	1.87	0.56
22:UT:1551:LEU:O	22:UT:1554:PRO:HD2	2.06	0.56
22:UT:1706:LYS:O	22:UT:1760:ASN:ND2	2.39	0.56
23:UU:634:PHE:HE1	23:UU:641:LEU:HD13	1.70	0.56
24:UV:976:ILE:HG21	24:UV:1017:TYR:HE1	1.71	0.56
33:CL:74:VAL:CG1	33:CL:82:LYS:HG3	2.36	0.56
33:CL:254:HIS:CD2	33:CL:256:GLU:HB3	2.40	0.56
36:JD:506:LYS:HE2	36:JD:538:LEU:HD11	1.87	0.56
40:JL:55:ARG:HG2	40:JL:57:SER:H	1.71	0.56
42:JP:439:ARG:HH22	62:D3:1042:G:P	2.28	0.56
45:DE:182:TYR:HB2	45:DE:228:ILE:CD1	2.35	0.56
47:DG:17:GLU:OE1	47:DG:17:GLU:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DI:87:ASN:HB2	49:DI:90:LEU:HG	1.86	0.56
50:DJ:162:SER:HG	50:DJ:165:GLY:H	1.52	0.56
52:DN:72:MET:HE3	52:DN:72:MET:HA	1.87	0.56
56:DT:88:VAL:HG13	62:D3:1172:G:N2	2.20	0.56
62:D3:1698:G:N1	62:D3:1703:C:N3	2.52	0.56
4:UB:504:ILE:HD12	4:UB:508:PHE:HE2	1.70	0.56
10:UH:314:LEU:HA	10:UH:321:ILE:HA	1.86	0.56
15:UM:409:ASP:OD1	15:UM:410:ASN:N	2.37	0.56
19:UQ:139:GLU:OE2	19:UQ:174:TYR:OH	2.22	0.56
22:UT:470:ILE:HD13	22:UT:503:ARG:HB3	1.87	0.56
22:UT:1749:LYS:NZ	62:D3:688:G:OP1	2.37	0.56
22:UT:1889:VAL:HG12	22:UT:1926:PHE:CD1	2.41	0.56
23:UU:53:CYS:SG	23:UU:80:ILE:HB	2.46	0.56
24:UV:765:LEU:HD12	24:UV:1168:TYR:CD1	2.41	0.56
27:CE:162:MET:HE1	27:CE:279:ARG:HH21	1.71	0.56
34:CM:40:ASP:OD1	34:CM:41:LEU:N	2.39	0.56
34:CM:155:LYS:O	34:CM:165:GLU:N	2.30	0.56
44:JJ:97:ARG:HH21	44:JJ:152:LEU:HD23	1.70	0.56
48:DH:165:LYS:O	48:DH:168:SER:OG	2.19	0.56
62:D3:17:C:H2'	62:D3:18:C:H6	1.71	0.56
12:UJ:368:SER:HA	12:UJ:371:LYS:HZ3	1.71	0.56
14:UL:262:ILE:CG2	14:UL:271:PHE:HB2	2.35	0.56
15:UM:574:HIS:CE1	15:UM:594:GLY:HA3	2.41	0.56
17:UO:248:ARG:NH2	17:UO:289:ASN:O	2.39	0.56
19:UQ:73:LEU:HD22	19:UQ:129:PRO:HG2	1.86	0.56
19:UQ:80:GLN:HG2	19:UQ:83:GLU:H	1.71	0.56
19:UQ:265:ASP:OD1	19:UQ:270:GLN:N	2.34	0.56
19:UQ:284:SER:O	19:UQ:288:LEU:HA	2.06	0.56
23:UU:332:SER:OG	23:UU:335:VAL:HB	2.06	0.56
24:UV:704:PHE:HB3	24:UV:954:LEU:HD22	1.87	0.56
33:CL:870:ARG:HH22	62:D3:573:C:HO2'	1.50	0.56
34:CM:202:PRO:HG2	62:D3:1132:A:C6	2.41	0.56
36:JD:522:ASN:HB3	36:JD:525:THR:HG23	1.88	0.56
37:JF:47:MET:HG2	37:JF:209:MET:HE3	1.88	0.56
47:DG:164:LYS:HA	47:DG:164:LYS:HE2	1.86	0.56
51:DL:105:LYS:NZ	62:D3:306:U:P	2.79	0.56
62:D3:1544:U:H2'	62:D3:1545:A:C8	2.40	0.56
3:UA:190:HIS:NE2	3:UA:210:SER:HB2	2.20	0.56
10:UH:580:LEU:HD21	10:UH:631:SER:HA	1.87	0.56
12:UJ:715:HIS:HD2	12:UJ:718:ARG:HH22	1.49	0.56
15:UM:271:ASP:OD2	15:UM:274:SER:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UM:591:ILE:HD11	15:UM:623:LEU:HD21	1.87	0.56
17:UO:62:ARG:NH1	17:UO:63:VAL:O	2.39	0.56
19:UQ:204:ASN:ND2	19:UQ:266:ASN:HB3	2.21	0.56
19:UQ:311:TYR:OH	20:UR:394:TRP:O	2.21	0.56
21:US:292:PRO:HB2	21:US:329:ARG:CZ	2.35	0.56
24:UV:828:ASP:OD1	24:UV:829:GLU:N	2.39	0.56
33:CL:1104:GLY:H	33:CL:1107:LYS:HZ3	1.53	0.56
36:JD:1175:SER:HA	36:JD:1231:LEU:HD23	1.87	0.56
54:DQ:99:GLU:OE1	54:DQ:99:GLU:N	2.33	0.56
57:DW:2:THR:OG1	57:DW:3:ARG:N	2.35	0.56
62:D3:47:A:N7	62:D3:98:U:O2'	2.34	0.56
62:D3:193:U:H2'	62:D3:194:U:H2'	1.88	0.56
3:UA:458:TRP:HA	3:UA:465:LEU:HA	1.86	0.56
1:CB:173:LEU:HD11	1:CB:256:ASN:ND2	2.21	0.56
12:UJ:44:ASP:OD2	12:UJ:45:TYR:N	2.39	0.56
14:UL:46:LEU:HD13	14:UL:657:GLN:NE2	2.20	0.56
15:UM:148:SER:OG	15:UM:193:VAL:O	2.21	0.56
15:UM:406:ALA:HB1	15:UM:437:VAL:HG13	1.88	0.56
19:UQ:519:LEU:HB3	19:UQ:522:SER:HB3	1.88	0.56
20:UR:276:HIS:O	20:UR:282:ASN:HA	2.05	0.56
22:UT:1360:GLU:O	22:UT:1362:ALA:N	2.39	0.56
22:UT:2423:VAL:HA	22:UT:2426:PHE:HD2	1.71	0.56
30:CI:127:ALA:O	30:CI:131:ILE:HG12	2.06	0.56
31:CJ:170:VAL:HA	31:CJ:254:PHE:HB3	1.87	0.56
36:JD:774:ARG:NH1	36:JD:818:PRO:O	2.26	0.56
62:D3:786:C:H2'	62:D3:787:G:C8	2.39	0.56
67:ED:158:SER:O	67:ED:162:SER:N	2.39	0.56
3:UA:222:LYS:HG2	3:UA:246:TYR:CD2	2.41	0.55
3:UA:351:LEU:HD23	3:UA:352:ALA:N	2.21	0.55
3:UA:361:VAL:HG12	3:UA:371:VAL:HG22	1.87	0.55
6:UD:274:GLN:OE1	6:UD:319:ARG:NE	2.38	0.55
6:UD:333:ILE:HA	6:UD:351:GLY:HA2	1.87	0.55
8:UF:2:SER:OG	8:UF:3:LYS:N	2.39	0.55
13:UK:146:PHE:O	18:UP:173:ARG:NH1	2.38	0.55
14:UL:7:ARG:NH2	14:UL:9:GLU:OE2	2.39	0.55
14:UL:149:ASP:HB3	14:UL:156:LEU:HD11	1.87	0.55
15:UM:600:LYS:HG3	15:UM:602:TRP:HZ3	1.72	0.55
15:UM:618:ASN:OD1	15:UM:619:ARG:N	2.36	0.55
19:UQ:473:LEU:O	19:UQ:530:LYS:NZ	2.40	0.55
21:US:413:MET:HE2	21:US:413:MET:N	2.21	0.55
22:UT:792:HIS:C	22:UT:794:VAL:H	2.14	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1328:PHE:HE1	22:UT:1363:LEU:HG	1.70	0.55
22:UT:1689:VAL:HG22	22:UT:1744:GLU:OE1	2.06	0.55
23:UU:225:THR:OG1	23:UU:227:THR:O	2.24	0.55
36:JD:526:ASP:O	36:JD:529:ILE:HG12	2.06	0.55
36:JD:765:GLU:O	36:JD:812:ARG:NE	2.39	0.55
40:JL:280:LYS:O	40:JL:283:THR:OG1	2.23	0.55
48:DH:133:THR:HG21	48:DH:162:ILE:HD13	1.88	0.55
54:DQ:25:GLY:HA3	54:DQ:64:ASP:HB2	1.89	0.55
2:DA:198:GLU:HB2	2:DA:210:ILE:HD12	1.88	0.55
11:UI:477:LYS:HG2	11:UI:481:HIS:CE1	2.41	0.55
12:UJ:533:PRO:HG2	12:UJ:710:LYS:HE3	1.87	0.55
17:UO:26:TYR:HE2	17:UO:30:TYR:HH	1.53	0.55
20:UR:557:THR:N	20:UR:560:THR:OG1	2.39	0.55
22:UT:1279:ASN:HA	22:UT:1282:VAL:HG22	1.86	0.55
24:UV:182:ASP:HB3	24:UV:208:THR:HB	1.87	0.55
33:CL:879:THR:OG1	62:D3:572:C:C4	2.57	0.55
34:CM:291:ARG:HG2	34:CM:317:GLN:HG3	1.87	0.55
36:JD:732:LEU:HD12	36:JD:733:PRO:HD2	1.89	0.55
42:JP:79:SER:OG	42:JP:82:LYS:HE2	2.05	0.55
45:DE:199:GLU:OE2	45:DE:201:HIS:NE2	2.39	0.55
47:DG:1:MET:HE3	47:DG:24:ILE:HD12	1.88	0.55
49:DI:110:ARG:O	49:DI:114:GLU:HG3	2.05	0.55
62:D3:272:U:HO2'	62:D3:273:G:H8	1.54	0.55
62:D3:717:C:H42	62:D3:720:G:H22	1.53	0.55
62:D3:1524:A:H2'	62:D3:1525:A:C8	2.41	0.55
62:D3:1671:A:H3'	62:D3:1672:G:C8	2.40	0.55
63:D4:154:C:H42	63:D4:159:C:N4	1.99	0.55
3:UA:530:VAL:HG22	3:UA:542:PHE:HB2	1.87	0.55
4:UB:475:ARG:NH1	4:UB:516:LEU:O	2.40	0.55
6:UD:331:ASN:HD22	6:UD:766:GLN:HB3	1.71	0.55
12:UJ:1536:VAL:HG21	12:UJ:1578:PHE:HZ	1.71	0.55
17:UO:182:HIS:ND1	17:UO:197:ASP:OD1	2.37	0.55
19:UQ:766:ILE:HD13	19:UQ:776:PHE:HB3	1.87	0.55
20:UR:430:GLY:HA2	20:UR:455:ILE:CD1	2.36	0.55
22:UT:379:GLN:NE2	22:UT:383:ASN:OD1	2.40	0.55
22:UT:1586:ILE:HG13	22:UT:1587:LYS:N	2.21	0.55
23:UU:634:PHE:CE1	23:UU:641:LEU:HD13	2.41	0.55
24:UV:186:ILE:HG12	24:UV:346:LEU:HG	1.87	0.55
24:UV:236:THR:HG21	24:UV:256:TYR:HE1	1.70	0.55
24:UV:406:ILE:HG13	24:UV:457:TYR:HB3	1.87	0.55
26:CD:148:GLU:OE1	26:CD:148:GLU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CD:331:SER:OG	63:D4:111:G:OP1	2.24	0.55
33:CL:734:GLU:HB3	33:CL:737:ASN:ND2	2.21	0.55
34:CM:244:THR:HG23	34:CM:259:GLU:HB3	1.89	0.55
36:JD:803:LYS:NZ	36:JD:834:PHE:O	2.38	0.55
41:JM:163:ARG:NH2	63:D4:312:U:OP1	2.26	0.55
44:JJ:270:LEU:O	44:JJ:273:ARG:HG3	2.06	0.55
62:D3:1564:U:H2'	62:D3:1565:C:H6	1.70	0.55
62:D3:1747:G:H2'	62:D3:1748:G:H8	1.70	0.55
1:CB:153:ALA:HB3	1:CB:306:LEU:HD23	1.89	0.55
9:UG:427:GLU:OE2	9:UG:431:ARG:NH2	2.39	0.55
12:UJ:287:ASP:OD1	12:UJ:288:ALA:N	2.39	0.55
12:UJ:754:GLU:HA	12:UJ:757:ILE:HD12	1.88	0.55
14:UL:624:LEU:HD12	14:UL:629:ASN:HB2	1.89	0.55
15:UM:808:TYR:HB2	23:UU:932:VAL:HG22	1.87	0.55
17:UO:149:THR:OG1	17:UO:164:LEU:HB3	2.06	0.55
20:UR:378:GLN:NE2	20:UR:407:PHE:HE1	2.03	0.55
22:UT:877:LYS:HD2	22:UT:882:ASN:HD21	1.72	0.55
22:UT:1374:PHE:O	22:UT:1378:ILE:HG12	2.07	0.55
23:UU:25:SER:OG	23:UU:655:THR:OG1	2.25	0.55
23:UU:321:GLU:O	23:UU:343:LEU:HB3	2.07	0.55
23:UU:871:GLY:O	23:UU:874:SER:OG	2.16	0.55
24:UV:427:LYS:HB3	24:UV:496:LEU:HD11	1.87	0.55
28:CG:5:ASN:CB	29:CH:463:GLN:HA	2.36	0.55
28:CG:61:ILE:HD12	28:CG:64:LEU:HD21	1.86	0.55
34:CM:131:GLU:OE2	34:CM:156:ARG:NH1	2.39	0.55
36:JD:730:TYR:N	36:JD:755:ARG:O	2.37	0.55
36:JD:1209:ARG:HH11	36:JD:1245:TRP:CG	2.25	0.55
47:DG:67:VAL:HG13	47:DG:99:GLY:HA2	1.88	0.55
49:DI:83:TYR:OH	49:DI:199:LYS:NZ	2.32	0.55
53:DO:45:GLY:O	53:DO:48:VAL:O	2.25	0.55
62:D3:502:U:H2'	62:D3:503:G:H8	1.71	0.55
62:D3:1753:A:H2'	62:D3:1754:A:C8	2.34	0.55
73:EJ:158:VAL:O	73:EJ:189:SER:N	2.37	0.55
1:CB:264:GLN:N	1:CB:320:TYR:O	2.39	0.55
8:UF:108:LYS:HE2	8:UF:112:MET:HE3	1.88	0.55
12:UJ:135:LEU:HD21	12:UJ:151:ILE:HD13	1.89	0.55
12:UJ:1623:ILE:O	12:UJ:1627:THR:HG23	2.06	0.55
14:UL:418:ASN:OD1	14:UL:421:THR:OG1	2.24	0.55
14:UL:552:ASP:O	14:UL:554:THR:N	2.39	0.55
15:UM:551:SER:HB3	15:UM:581:CYS:HB2	1.87	0.55
19:UQ:396:ILE:HD13	19:UQ:779:ILE:HB	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:226:THR:O	22:UT:229:TYR:HB3	2.07	0.55
22:UT:402:ARG:HE	22:UT:746:ILE:HD11	1.71	0.55
22:UT:1439:ILE:O	22:UT:1441:LEU:N	2.39	0.55
22:UT:2065:VAL:HG12	22:UT:2069:GLN:HE22	1.71	0.55
22:UT:2183:LEU:O	22:UT:2186:LYS:HG2	2.05	0.55
23:UU:845:VAL:HG11	23:UU:884:PHE:CE1	2.42	0.55
24:UV:176:PHE:HB3	24:UV:230:VAL:HG21	1.88	0.55
32:CK:453:SER:OG	32:CK:454:VAL:N	2.39	0.55
35:CN:259:ARG:HH22	52:DN:83:GLU:CB	2.18	0.55
36:JD:855:LYS:HG3	36:JD:889:LEU:HD21	1.88	0.55
36:JD:1059:ALA:HA	44:JJ:68:SER:O	2.07	0.55
37:JF:232:LEU:HD21	37:JG:103:PRO:HG3	1.89	0.55
48:DH:69:GLY:HA2	48:DH:72:LYS:HE2	1.88	0.55
51:DL:134:THR:OG1	62:D3:325:G:OP1	2.24	0.55
62:D3:1688:U:H2'	62:D3:1689:A:H8	1.72	0.55
62:D3:1752:U:O4	62:D3:1753:A:N6	2.39	0.55
71:EH:5:ILE:N	71:EH:40:GLY:O	2.38	0.55
3:UA:425:PHE:HB3	3:UA:458:TRP:CD1	2.42	0.55
15:UM:584:ILE:HG23	15:UM:586:LYS:H	1.72	0.55
21:US:314:VAL:HG21	21:US:352:VAL:HG21	1.89	0.55
21:US:341:LEU:HD12	21:US:362:MET:HE1	1.86	0.55
22:UT:996:ARG:HH12	62:D3:133:U:H5"	1.70	0.55
22:UT:1151:ILE:HD12	22:UT:1201:LEU:HD22	1.88	0.55
22:UT:1326:SER:HA	22:UT:1329:LYS:HE3	1.89	0.55
23:UU:730:LYS:HE3	23:UU:880:LEU:HD21	1.89	0.55
23:UU:885:MET:HG2	23:UU:912:TRP:CZ2	2.42	0.55
24:UV:686:LEU:HB2	24:UV:696:ILE:HD11	1.89	0.55
28:CF:65:LEU:O	28:CF:68:PRO:HD2	2.06	0.55
30:CI:32:VAL:HG21	30:CI:44:TYR:CD1	2.41	0.55
37:JF:196:LEU:HD11	37:JF:202:ILE:HD13	1.89	0.55
37:JG:36:LYS:HB3	37:JG:172:PRO:HA	1.88	0.55
47:DG:176:GLN:HG2	62:D3:169:A:C5'	2.36	0.55
50:DJ:120:LYS:H	50:DJ:124:HIS:CD2	2.22	0.55
62:D3:679:U:H2'	62:D3:680:U:C6	2.42	0.55
62:D3:887:A:H61	62:D3:924:A:H61	1.54	0.55
62:D3:976:G:N1	62:D3:1023:A:O2'	2.27	0.55
63:D4:157:A:H4'	63:D4:158:G:O5'	2.05	0.55
1:CA:85:LYS:HA	1:CA:85:LYS:HE3	1.89	0.55
3:UA:604:TYR:HA	3:UA:611:LEU:HA	1.89	0.55
1:CB:148:ARG:HH11	1:CB:148:ARG:HG3	1.71	0.55
6:UD:293:ASN:HB3	6:UD:310:ASN:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UE:60:VAL:HA	7:UE:80:MET:HG2	1.88	0.55
12:UJ:791:VAL:O	12:UJ:795:LEU:HB2	2.06	0.55
12:UJ:795:LEU:HD12	12:UJ:796:PRO:HD2	1.89	0.55
15:UM:516:LYS:HB2	15:UM:518:TRP:HZ3	1.71	0.55
16:UN:879:ILE:O	16:UN:879:ILE:HG13	2.05	0.55
17:UO:167:ALA:HA	17:UO:194:ARG:NH2	2.21	0.55
21:US:316:PRO:HA	21:US:319:ALA:HB3	1.88	0.55
22:UT:1089:PRO:HG2	22:UT:1090:ARG:HE	1.72	0.55
22:UT:1915:LEU:O	22:UT:1919:ILE:HG23	2.06	0.55
26:CD:37:GLN:OE1	42:JP:385:VAL:HG12	2.07	0.55
28:CF:9:PHE:CD2	28:CF:9:PHE:C	2.85	0.55
36:JD:523:ILE:H	36:JD:523:ILE:HD12	1.70	0.55
36:JD:1116:PRO:HD2	36:JD:1134:TYR:CD1	2.41	0.55
40:JL:201:GLN:NE2	62:D3:1783:C:O5'	2.39	0.55
40:JL:233:ARG:HH22	62:D3:1776:A:H4'	1.71	0.55
44:JJ:74:ASP:O	44:JJ:77:GLY:N	2.39	0.55
52:DN:96:VAL:HG21	52:DN:150:VAL:HG11	1.89	0.55
62:D3:358:U:H2'	62:D3:360:A:H5'	1.89	0.55
62:D3:1787:C:N4	62:D3:1788:G:O6	2.40	0.55
3:UA:162:LEU:HD13	3:UA:197:ALA:HB1	1.88	0.55
6:UD:331:ASN:ND2	6:UD:766:GLN:HB3	2.22	0.55
8:UF:144:VAL:HG21	8:UF:178:VAL:HG11	1.88	0.55
9:UG:160:LEU:HD12	9:UG:161:GLN:N	2.21	0.55
12:UJ:721:VAL:HG11	12:UJ:751:ILE:HG22	1.88	0.55
13:UK:64:TYR:CE2	33:CL:1080:LYS:HB2	2.41	0.55
14:UL:536:CYS:SG	14:UL:537:VAL:N	2.80	0.55
19:UQ:694:LEU:O	19:UQ:698:VAL:N	2.40	0.55
20:UR:303:SER:HG	20:UR:309:GLN:CD	2.12	0.55
21:US:215:ASN:HB3	21:US:218:LYS:HD3	1.89	0.55
22:UT:1178:CYS:O	22:UT:1181:ILE:HG22	2.07	0.55
22:UT:1247:LEU:HA	22:UT:1250:ILE:HG22	1.89	0.55
22:UT:1533:MET:HG3	22:UT:1537:LYS:HG3	1.88	0.55
22:UT:1683:ARG:O	22:UT:1686:GLN:N	2.40	0.55
23:UU:28:ARG:HH22	23:UU:383:ASP:CG	2.14	0.55
23:UU:530:ASP:HB2	23:UU:537:LEU:HD21	1.88	0.55
30:CI:39:GLN:NE2	30:CI:40:ASN:HB3	2.22	0.55
36:JD:25:ARG:HG3	36:JD:26:ILE:HG23	1.89	0.55
40:JL:84:VAL:HG21	40:JL:114:PHE:HB3	1.87	0.55
62:D3:1714:A:H2'	62:D3:1715:G:H8	1.72	0.55
63:D4:264:C:N3	63:D4:307:G:N1	2.50	0.55
3:UA:422:PHE:CZ	62:D3:1633:A:C4	2.95	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UA:570:THR:HG23	3:UA:573:ASN:H	1.71	0.55
13:UK:112:GLN:HE22	63:D4:324:U:H5'	1.72	0.55
14:UL:414:LEU:HD13	14:UL:457:PHE:CD2	2.42	0.55
15:UM:579:GLN:O	15:UM:580:ARG:HG2	2.07	0.55
17:UO:63:VAL:HB	17:UO:77:PHE:HB2	1.88	0.55
17:UO:280:HIS:HB2	17:UO:297:LYS:NZ	2.22	0.55
19:UQ:302:SER:HB2	19:UQ:343:ASP:HA	1.89	0.55
20:UR:270:LYS:HA	20:UR:295:ILE:HG12	1.89	0.55
21:US:309:ASN:HB3	21:US:312:ALA:HB3	1.88	0.55
22:UT:367:ARG:HD2	22:UT:403:LEU:HD23	1.88	0.55
24:UV:761:ARG:HB2	24:UV:899:LEU:HD23	1.88	0.55
34:CM:113:LYS:HD3	34:CM:171:ASP:OD1	2.06	0.55
36:JD:639:LEU:HB3	36:JD:731:VAL:HG11	1.88	0.55
37:JG:111:GLN:HG3	37:JG:113:TYR:HE1	1.71	0.55
62:D3:1534:G:OP2	62:D3:1534:G:H8	1.90	0.55
62:D3:1693:A:H2'	62:D3:1694:A:C8	2.42	0.55
63:D4:100:U:H2'	63:D4:101:G:H8	1.71	0.55
75:EN:398:VAL:O	75:EN:402:TRP:N	2.34	0.55
2:DA:101:HIS:O	2:DA:217:LEU:HD23	2.07	0.55
1:CB:156:MET:HE1	13:UK:126:MET:SD	2.46	0.55
12:UJ:78:SER:HA	12:UJ:81:LEU:CD2	2.37	0.55
14:UL:234:GLU:HB3	14:UL:240:GLY:HA3	1.89	0.55
15:UM:281:THR:O	15:UM:326:THR:OG1	2.24	0.55
15:UM:561:SER:HB3	15:UM:568:MET:HE1	1.88	0.55
15:UM:579:GLN:OE1	15:UM:595:ALA:HB2	2.07	0.55
16:UN:844:SER:OG	16:UN:845:SER:N	2.37	0.55
17:UO:45:ILE:HD12	17:UO:56:ALA:O	2.06	0.55
21:US:399:ILE:HG12	21:US:484:PHE:HE2	1.71	0.55
22:UT:434:LEU:HD12	22:UT:757:ILE:HG13	1.89	0.55
22:UT:1271:LEU:HB3	22:UT:1275:PHE:CE1	2.42	0.55
23:UU:880:LEU:HA	23:UU:883:THR:HG22	1.89	0.55
31:CJ:83:ILE:H	31:CJ:83:ILE:HD12	1.72	0.55
32:CK:344:GLU:HA	33:CL:960:ARG:NH2	2.20	0.55
36:JD:1126:PRO:HA	36:JD:1129:GLU:HB2	1.89	0.55
37:JG:51:GLU:C	37:JG:68:LEU:HD23	2.32	0.55
37:JG:227:LEU:HB3	37:JG:232:LEU:HD21	1.89	0.55
62:D3:1501:C:H2'	62:D3:1502:G:H8	1.72	0.55
75:EN:465:LEU:O	75:EN:469:ARG:N	2.39	0.55
6:UD:45:THR:OG1	6:UD:352:VAL:HA	2.07	0.54
6:UD:306:GLN:HE21	6:UD:324:SER:HB3	1.72	0.54
6:UD:420:LEU:HD11	6:UD:462:VAL:HG11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UF:299:LYS:HZ3	27:CE:249:GLN:HG2	1.71	0.54
10:UH:647:LEU:O	11:UI:509:GLN:NE2	2.37	0.54
12:UJ:1451:LYS:HB3	12:UJ:1455:LYS:NZ	2.23	0.54
13:UK:106:TYR:CE2	13:UK:110:LEU:HD11	2.41	0.54
13:UK:232:LYS:HE2	13:UK:240:ILE:HD12	1.88	0.54
14:UL:394:VAL:HB	14:UL:675:SER:OG	2.07	0.54
14:UL:805:ILE:O	14:UL:808:THR:HG22	2.06	0.54
17:UO:233:ASN:ND2	17:UO:247:GLU:OE2	2.40	0.54
19:UQ:71:ASN:OD1	19:UQ:72:SER:N	2.40	0.54
20:UR:264:LEU:HD23	20:UR:265:THR:N	2.22	0.54
20:UR:486:SER:O	20:UR:489:GLY:N	2.38	0.54
21:US:437:THR:O	21:US:441:ASN:ND2	2.40	0.54
22:UT:1602:ASP:O	22:UT:1606:ILE:HD11	2.06	0.54
22:UT:1668:GLU:O	22:UT:1671:VAL:HG12	2.07	0.54
23:UU:810:ARG:NH1	36:JD:1232:ASN:OD1	2.40	0.54
24:UV:737:LEU:HD11	24:UV:842:ILE:HG21	1.89	0.54
24:UV:858:ARG:NH2	62:D3:1058:U:H3	2.05	0.54
27:CE:103:LEU:HD22	27:CE:105:PHE:CD1	2.42	0.54
28:CG:5:ASN:OD1	28:CG:5:ASN:C	2.50	0.54
29:CH:116:ILE:HD12	29:CH:116:ILE:H	1.73	0.54
33:CL:874:TYR:OH	62:D3:578:U:OP2	2.20	0.54
37:JG:73:HIS:ND1	37:JG:73:HIS:O	2.40	0.54
40:JL:157:ARG:HG3	40:JL:203:GLU:HB2	1.89	0.54
42:JP:93:LYS:HD3	42:JP:102:GLU:OE1	2.07	0.54
53:DO:117:ASP:OD1	53:DO:119:THR:OG1	2.18	0.54
62:D3:992:A:H2	62:D3:1012:U:O4	1.90	0.54
75:EN:684:VAL:HA	75:EN:766:SER:HA	1.89	0.54
1:CA:116:SER:HB2	1:CA:120:GLU:CD	2.31	0.54
2:DA:172:LEU:O	2:DA:176:VAL:HG22	2.07	0.54
6:UD:250:THR:HG22	6:UD:251:ASP:H	1.71	0.54
9:UG:230:THR:HG22	9:UG:232:ALA:H	1.72	0.54
12:UJ:1461:TRP:HB2	12:UJ:1477:PHE:CZ	2.42	0.54
15:UM:578:VAL:HG23	15:UM:579:GLN:H	1.73	0.54
15:UM:791:ARG:NH2	32:CK:493:GLN:OE1	2.39	0.54
17:UO:40:ASN:HB2	17:UO:60:SER:HB3	1.90	0.54
19:UQ:605:ASN:OD1	19:UQ:606:HIS:N	2.40	0.54
22:UT:1742:VAL:HB	22:UT:1745:ILE:HD12	1.88	0.54
22:UT:2136:LYS:O	22:UT:2139:GLU:HG2	2.07	0.54
23:UU:846:ASP:OD1	23:UU:850:ARG:NH2	2.40	0.54
24:UV:372:GLN:O	24:UV:514:ASN:ND2	2.40	0.54
24:UV:622:SER:OG	24:UV:623:GLU:OE2	2.24	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UV:883:LEU:HD21	24:UV:1050:ILE:HG22	1.89	0.54
62:D3:40:A:H2'	62:D3:41:A:O4'	2.07	0.54
62:D3:1690:G:H2'	62:D3:1691:A:C8	2.42	0.54
63:D4:181:G:H22	63:D4:183:A:H3'	1.72	0.54
63:D4:201:C:N4	63:D4:249:G:O6	2.41	0.54
2:DA:61:LEU:HD23	2:DA:64:ARG:HG3	1.90	0.54
6:UD:121:THR:HG23	6:UD:142:GLY:O	2.06	0.54
12:UJ:137:LEU:HD23	12:UJ:195:TYR:HB2	1.89	0.54
12:UJ:200:ILE:HG22	12:UJ:201:LYS:HE2	1.89	0.54
12:UJ:1656:SER:HA	12:UJ:1703:GLU:CD	2.33	0.54
14:UL:814:MET:SD	14:UL:815:SER:N	2.81	0.54
15:UM:115:THR:HG21	44:JJ:79:PRO:HD2	1.88	0.54
17:UO:31:THR:O	17:UO:331:THR:N	2.40	0.54
19:UQ:314:SER:HB2	19:UQ:322:SER:OG	2.07	0.54
21:US:386:LEU:O	21:US:390:SER:CB	2.48	0.54
22:UT:1176:THR:O	22:UT:1179:LEU:HG	2.07	0.54
24:UV:975:LEU:HD23	24:UV:1041:VAL:HG12	1.89	0.54
31:CJ:77:TYR:O	31:CJ:81:SER:CB	2.51	0.54
33:CL:84:THR:HG23	77:CL:2001:GTP:O1A	2.07	0.54
35:CN:259:ARG:HH22	52:DN:83:GLU:HB2	1.71	0.54
37:JG:53:HIS:CG	37:JG:68:LEU:HD21	2.42	0.54
56:DT:65:ILE:O	56:DT:68:ARG:C	2.50	0.54
62:D3:1483:A:H2	62:D3:1607:G:H1'	1.72	0.54
71:EH:204:THR:O	71:EH:208:TYR:N	2.41	0.54
73:EJ:159:GLU:HA	73:EJ:188:PHE:HA	1.89	0.54
75:EN:86:GLU:HA	75:EN:120:ARG:HA	1.89	0.54
75:EN:351:GLU:O	75:EN:355:LYS:N	2.34	0.54
1:CB:165:ALA:H	1:CB:168:LYS:HD2	1.71	0.54
6:UD:509:GLN:HB3	6:UD:558:ARG:HH22	1.72	0.54
9:UG:161:GLN:NE2	9:UG:429:GLU:OE2	2.41	0.54
9:UG:203:TYR:HD2	9:UG:220:SER:HB3	1.73	0.54
12:UJ:206:TYR:CZ	12:UJ:209:GLN:HB2	2.41	0.54
14:UL:657:GLN:NE2	14:UL:678:ASP:OD2	2.40	0.54
15:UM:490:HIS:NE2	15:UM:516:LYS:HG2	2.21	0.54
17:UO:278:ASP:O	17:UO:298:PHE:O	2.25	0.54
17:UO:481:GLN:O	17:UO:485:ILE:HG12	2.07	0.54
19:UQ:498:LEU:HD13	19:UQ:509:THR:HG22	1.90	0.54
22:UT:355:GLN:HG3	22:UT:389:ILE:HG22	1.90	0.54
22:UT:1311:TYR:CD1	22:UT:1324:ILE:HD13	2.42	0.54
22:UT:1949:PRO:HB2	42:JP:252:ASN:ND2	2.23	0.54
22:UT:2052:GLN:HE21	22:UT:2056:ARG:HG2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UU:453:TRP:CD2	23:UU:492:GLY:HA3	2.43	0.54
26:CD:198:TRP:HE1	27:CE:165:GLN:HB3	1.72	0.54
26:CD:205:GLU:HG3	26:CD:254:ASN:HB3	1.89	0.54
27:CE:160:ASP:OD1	27:CE:160:ASP:N	2.41	0.54
31:CJ:206:LEU:HD13	31:CJ:209:LEU:HD12	1.89	0.54
33:CL:613:PRO:HG2	33:CL:615:PHE:CZ	2.42	0.54
33:CL:629:ASP:N	33:CL:629:ASP:OD1	2.38	0.54
33:CL:1080:LYS:O	33:CL:1082:GLN:N	2.39	0.54
35:CN:254:LYS:HE2	52:DN:89:TYR:HE2	1.72	0.54
36:JD:444:MET:HE2	36:JD:509:LYS:HZ3	1.72	0.54
40:JL:48:ILE:HG23	40:JL:152:ILE:HG21	1.88	0.54
42:JP:228:ASN:ND2	42:JP:230:ASN:O	2.41	0.54
65:EB:164:LYS:O	65:EB:185:VAL:N	2.35	0.54
4:UB:613:ILE:HG13	4:UB:614:ILE:H	1.71	0.54
4:UB:701:ALA:HB1	4:UB:704:ASN:HD22	1.72	0.54
7:UE:444:ALA:HB1	7:UE:453:LEU:HG	1.89	0.54
12:UJ:550:TYR:O	12:UJ:553:SER:O	2.25	0.54
14:UL:578:SER:HB3	14:UL:591:SER:HB3	1.90	0.54
18:UP:185:GLN:HA	18:UP:188:LYS:HZ2	1.73	0.54
19:UQ:768:TRP:CZ3	19:UQ:770:TYR:HA	2.43	0.54
21:US:223:VAL:O	21:US:228:HIS:NE2	2.38	0.54
22:UT:1082:ILE:O	22:UT:1086:VAL:HG23	2.07	0.54
24:UV:392:GLU:HA	24:UV:395:ILE:HD12	1.89	0.54
24:UV:579:LYS:NZ	24:UV:619:VAL:O	2.41	0.54
33:CL:561:GLU:O	33:CL:565:ARG:HG2	2.07	0.54
36:JD:541:LYS:HB3	36:JD:549:GLU:HB2	1.89	0.54
40:JL:41:ASN:HB2	40:JL:44:VAL:HG22	1.89	0.54
51:DL:55:ASP:OD1	51:DL:82:ARG:NH1	2.40	0.54
55:DS:64:GLU:O	55:DS:67:GLU:HG3	2.06	0.54
1:CA:306:LEU:O	1:CA:306:LEU:HD12	2.08	0.54
2:DA:239:GLU:HG3	24:UV:659:LYS:NZ	2.23	0.54
3:UA:55:ARG:CD	3:UA:621:MET:HE2	2.31	0.54
1:CB:144:TRP:CZ2	1:CB:183:HIS:HB3	2.43	0.54
6:UD:219:ASP:O	6:UD:222:MET:HG2	2.08	0.54
6:UD:232:ASP:N	6:UD:232:ASP:OD1	2.39	0.54
6:UD:534:LEU:CD2	6:UD:543:ILE:HG22	2.37	0.54
10:UH:665:GLN:HB3	11:UI:496:LEU:HD21	1.90	0.54
12:UJ:404:PHE:O	12:UJ:408:ILE:HG13	2.08	0.54
15:UM:418:ASN:HD21	15:UM:420:ASN:HD21	1.54	0.54
15:UM:465:LYS:NZ	15:UM:521:GLU:O	2.33	0.54
19:UQ:432:ARG:H	19:UQ:432:ARG:HD3	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:UQ:499:LYS:HG2	19:UQ:500:PHE:H	1.72	0.54
19:UQ:506:TRP:HZ3	19:UQ:571:GLN:HB2	1.72	0.54
21:US:203:LEU:HD21	21:US:212:LEU:HD22	1.89	0.54
22:UT:84:ASP:OD2	22:UT:84:ASP:N	2.39	0.54
22:UT:549:LYS:NZ	22:UT:587:ASP:HB3	2.22	0.54
22:UT:1041:SER:OG	22:UT:1043:GLU:OE1	2.21	0.54
22:UT:2080:MET:HE3	22:UT:2125:LEU:HD12	1.90	0.54
22:UT:2159:ASN:O	22:UT:2162:LEU:HB3	2.07	0.54
23:UU:605:LEU:HD23	23:UU:628:VAL:HG21	1.90	0.54
24:UV:215:GLU:OE2	62:D3:1700:C:O2'	2.18	0.54
24:UV:495:THR:HA	24:UV:498:MET:HG2	1.90	0.54
40:JL:181:MET:SD	40:JL:182:TRP:CD1	3.00	0.54
42:JP:83:LEU:HD21	42:JP:364:ILE:HG21	1.88	0.54
47:DG:162:VAL:HG21	62:D3:68:A:H5'	1.89	0.54
63:D4:202:G:H1	63:D4:247:U:H3	1.54	0.54
2:DA:150:VAL:HG12	9:UG:512:ARG:HE	1.73	0.54
2:DA:243:LYS:NZ	24:UV:656:ARG:HE	1.99	0.54
3:UA:68:THR:HG21	3:UA:127:VAL:HG21	1.90	0.54
1:CB:120:GLU:OE1	1:CB:120:GLU:N	2.35	0.54
4:UB:52:ARG:CD	32:CK:370:ARG:HH12	2.17	0.54
6:UD:155:LYS:HD3	6:UD:167:LEU:HD21	1.90	0.54
12:UJ:675:ASN:HA	12:UJ:680:TYR:CD2	2.42	0.54
12:UJ:1369:PHE:O	12:UJ:1373:ILE:HG23	2.08	0.54
12:UJ:1666:LEU:O	12:UJ:1670:ILE:HD12	2.08	0.54
14:UL:760:ILE:HG13	14:UL:831:LYS:HB3	1.89	0.54
16:UN:779:GLU:OE1	16:UN:815:VAL:HG21	2.08	0.54
17:UO:51:HIS:HB3	17:UO:53:HIS:CE1	2.43	0.54
18:UP:208:ARG:HG2	18:UP:211:LEU:CD2	2.38	0.54
19:UQ:875:MET:SD	19:UQ:875:MET:N	2.80	0.54
22:UT:500:LEU:HD22	22:UT:503:ARG:HH11	1.71	0.54
22:UT:522:LEU:O	22:UT:525:ILE:HB	2.08	0.54
22:UT:718:PRO:HD3	22:UT:758:ILE:HG13	1.89	0.54
26:CD:411:ARG:HB3	26:CD:411:ARG:NH1	2.22	0.54
27:CE:280:MET:HE1	27:CE:296:GLY:C	2.33	0.54
27:CE:343:TYR:HE2	63:D4:88:U:C4	2.25	0.54
30:CI:125:GLN:HA	30:CI:128:VAL:HG12	1.88	0.54
37:JG:36:LYS:HD2	37:JG:172:PRO:HA	1.89	0.54
40:JL:236:ARG:HD3	62:D3:981:U:OP1	2.08	0.54
55:DS:27:LYS:HE2	62:D3:1533:C:H5"	1.90	0.54
56:DT:28:LEU:HA	56:DT:111:ILE:HD11	1.90	0.54
58:DX:26:GLU:CD	58:DX:27:ASN:H	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:D3:273:G:N2	62:D3:284:G:H1'	2.23	0.54
62:D3:279:G:C2	62:D3:281:G:C4	2.96	0.54
62:D3:330:G:C6	62:D3:331:A:C5	2.96	0.54
62:D3:513:U:H2'	62:D3:514:G:C8	2.43	0.54
62:D3:1115:U:H2'	62:D3:1116:A:C8	2.43	0.54
1:CA:110:ASN:OD1	1:CA:112:ALA:N	2.40	0.54
3:UA:341:GLN:N	3:UA:341:GLN:OE1	2.40	0.54
3:UA:482:SER:O	3:UA:486:SER:CA	2.55	0.54
6:UD:374:THR:HG22	6:UD:375:VAL:HG23	1.89	0.54
7:UE:445:LEU:HD22	7:UE:479:ILE:HG13	1.90	0.54
12:UJ:186:MET:HE1	12:UJ:233:GLN:NE2	2.21	0.54
12:UJ:1374:VAL:HG23	12:UJ:1375:PRO:HD3	1.88	0.54
17:UO:52:PRO:HB3	17:UO:309:PRO:HD2	1.90	0.54
22:UT:366:ILE:O	22:UT:407:ARG:NH2	2.41	0.54
22:UT:972:LEU:HG	22:UT:973:ASP:H	1.71	0.54
22:UT:1011:LEU:O	22:UT:1013:THR:N	2.40	0.54
24:UV:558:LEU:HD22	24:UV:608:PHE:CE2	2.42	0.54
33:CL:870:ARG:NH1	62:D3:574:G:OP1	2.41	0.54
33:CL:923:ASP:CG	33:CL:924:VAL:H	2.16	0.54
36:JD:739:PRO:O	36:JD:742:GLU:HG2	2.07	0.54
42:JP:109:HIS:NE2	42:JP:138:SER:OG	2.34	0.54
42:JP:131:LYS:HG2	42:JP:155:TYR:HE2	1.73	0.54
52:DN:124:ARG:NH2	62:D3:628:G:OP2	2.41	0.54
75:EN:325:PRO:O	75:EN:553:GLY:N	2.35	0.54
1:CA:145:ASN:HD21	5:UC:591:TYR:CB	2.20	0.54
1:CB:110:ASN:HD21	1:CB:142:ARG:HD3	1.73	0.54
1:CB:307:GLU:OE1	1:CB:308:PRO:HD3	2.08	0.54
12:UJ:670:LEU:HA	12:UJ:673:ASN:HD21	1.72	0.54
12:UJ:1550:ILE:HG22	12:UJ:1553:ARG:HH11	1.73	0.54
14:UL:676:SER:OG	14:UL:678:ASP:OD1	2.22	0.54
15:UM:557:VAL:HG12	15:UM:571:LEU:HB2	1.90	0.54
19:UQ:17:GLY:H	19:UQ:465:ASN:ND2	2.06	0.54
19:UQ:207:LEU:HD23	19:UQ:229:SER:HA	1.90	0.54
22:UT:673:ARG:NH1	22:UT:777:GLN:HE21	2.06	0.54
22:UT:1199:LEU:HD23	22:UT:1242:LYS:NZ	2.23	0.54
23:UU:360:ASP:HA	23:UU:421:ASN:ND2	2.23	0.54
27:CE:159:VAL:HG23	27:CE:162:MET:HB3	1.89	0.54
28:CF:5:ASN:OD1	28:CF:5:ASN:C	2.50	0.54
31:CJ:290:LEU:HD22	62:D3:563:U:OP2	2.07	0.54
49:DI:98:LYS:HB3	62:D3:329:G:H5"	1.89	0.54
56:DT:114:VAL:HB	56:DT:123:ARG:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DA:119:THR:HG23	2:DA:155:TYR:HD1	1.73	0.54
5:UC:572:ALA:HB1	25:UX:53:PHE:HE2	1.73	0.54
11:UI:495:VAL:O	11:UI:499:ILE:HG13	2.08	0.54
15:UM:354:ALA:HA	15:UM:364:ILE:HD13	1.90	0.54
15:UM:551:SER:HA	15:UM:557:VAL:HG23	1.89	0.54
16:UN:821:ARG:NH2	16:UN:823:ASP:OD2	2.24	0.54
21:US:296:MET:HE1	21:US:332:LEU:HB3	1.89	0.54
21:US:495:MET:HG3	21:US:499:LEU:HD12	1.90	0.54
22:UT:860:SER:O	22:UT:866:GLN:NE2	2.41	0.54
22:UT:1120:GLN:O	22:UT:1124:TYR:HB2	2.08	0.54
22:UT:1481:ILE:O	22:UT:1485:LEU:HB2	2.08	0.54
22:UT:1617:VAL:O	22:UT:1621:LEU:HD23	2.07	0.54
23:UU:251:ILE:H	23:UU:251:ILE:HD12	1.73	0.54
23:UU:276:TYR:CE1	23:UU:283:ARG:HG3	2.43	0.54
24:UV:102:ILE:O	24:UV:105:LEU:HG	2.07	0.54
24:UV:214:PHE:CZ	24:UV:298:PHE:HD1	2.26	0.54
24:UV:536:TYR:OH	24:UV:552:ARG:NH1	2.37	0.54
33:CL:761:GLN:NE2	34:CM:307:ASP:OD1	2.37	0.54
34:CM:134:LYS:HA	34:CM:138:MET:HG2	1.89	0.54
50:DJ:107:ARG:HH22	50:DJ:153:GLU:HG2	1.72	0.54
52:DN:37:ILE:HG12	52:DN:54:LEU:HD11	1.90	0.54
71:EH:84:TYR:N	71:EH:97:LEU:O	2.36	0.54
74:EK:568:VAL:O	74:EK:625:SER:HA	2.08	0.54
3:UA:735:PHE:CD1	3:UA:758:ILE:HG22	2.43	0.53
6:UD:616:LYS:NZ	12:UJ:627:LEU:O	2.42	0.53
8:UF:269:ILE:O	8:UF:273:ILE:HG12	2.08	0.53
12:UJ:32:SER:O	12:UJ:150:ARG:NH1	2.41	0.53
12:UJ:408:ILE:HG12	12:UJ:412:GLU:OE1	2.07	0.53
17:UO:23:GLU:O	17:UO:27:TRP:HE3	1.90	0.53
19:UQ:441:GLU:HG2	19:UQ:499:LYS:HA	1.90	0.53
19:UQ:499:LYS:NZ	19:UQ:562:PRO:HG3	2.21	0.53
19:UQ:647:THR:O	19:UQ:648:LYS:HG3	2.07	0.53
20:UR:545:HIS:HB2	20:UR:552:PHE:CZ	2.42	0.53
24:UV:413:LEU:HG	24:UV:415:GLY:H	1.72	0.53
28:CG:38:ASN:ND2	63:D4:256:G:N7	2.56	0.53
36:JD:111:LYS:HD3	36:JD:114:ILE:HD12	1.90	0.53
36:JD:603:THR:HB	36:JD:635:MET:HE1	1.90	0.53
36:JD:1117:TYR:HA	36:JD:1132:PHE:HE1	1.73	0.53
36:JD:1234:ILE:HG21	36:JD:1250:PHE:CD2	2.43	0.53
37:JG:148:LEU:HD11	62:D3:1575:G:C5	2.43	0.53
46:DF:48:PHE:HE1	46:DF:130:ILE:HD13	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:DI:33:PRO:HB3	62:D3:330:G:O2'	2.08	0.53
62:D3:13:C:O2	63:D4:18:G:N2	2.19	0.53
62:D3:272:U:O2'	62:D3:273:G:O4'	2.25	0.53
62:D3:690:G:N2	62:D3:691:C:O2	2.41	0.53
62:D3:1479:A:H2'	62:D3:1480:G:H8	1.73	0.53
62:D3:1564:U:H2'	62:D3:1565:C:C6	2.42	0.53
74:EK:136:CYS:CA	74:EK:145:PHE:CB	2.85	0.53
7:UE:22:VAL:HG13	20:UR:278:ASP:CG	2.33	0.53
7:UE:221:MET:HG3	7:UE:222:THR:H	1.74	0.53
8:UF:134:ASN:HD21	16:UN:325:SER:HB2	1.73	0.53
17:UO:75:LYS:HE3	17:UO:111:TYR:HA	1.90	0.53
17:UO:194:ARG:HG3	17:UO:208:SER:HB2	1.89	0.53
19:UQ:363:ASN:HB2	19:UQ:453:HIS:CE1	2.43	0.53
22:UT:306:LEU:HD23	22:UT:306:LEU:H	1.71	0.53
22:UT:389:ILE:O	22:UT:389:ILE:HG13	2.07	0.53
22:UT:499:PRO:C	22:UT:503:ARG:HE	2.15	0.53
22:UT:632:LEU:HD11	47:DG:131:LYS:HB2	1.89	0.53
24:UV:683:ASN:HA	24:UV:696:ILE:HD12	1.90	0.53
24:UV:1081:ASN:HD21	24:UV:1083:GLN:HB2	1.71	0.53
26:CD:146:ASP:OD1	26:CD:149:ARG:HG2	2.07	0.53
28:CF:9:PHE:C	28:CF:9:PHE:HD2	2.16	0.53
34:CM:183:ILE:O	34:CM:312:ARG:NH1	2.36	0.53
36:JD:30:GLN:HG2	62:D3:317:C:H5"	1.89	0.53
37:JF:180:LEU:HD12	37:JF:206:VAL:HG22	1.90	0.53
37:JG:228:SER:HB3	37:JG:232:LEU:HD11	1.90	0.53
49:DI:171:SER:OG	49:DI:172:ARG:N	2.33	0.53
62:D3:418:G:O2'	62:D3:419:G:OP1	2.25	0.53
1:CA:279:THR:OG1	1:CA:280:VAL:N	2.40	0.53
3:UA:254:HIS:HB3	3:UA:292:PHE:CE2	2.43	0.53
6:UD:199:ASP:CA	6:UD:215:ALA:O	2.57	0.53
6:UD:302:ARG:HD2	6:UD:329:HIS:O	2.08	0.53
14:UL:443:LEU:O	14:UL:459:LEU:HD22	2.08	0.53
17:UO:85:TYR:CE1	17:UO:101:ALA:HB2	2.43	0.53
17:UO:264:PHE:HB3	17:UO:310:SER:HA	1.89	0.53
19:UQ:484:VAL:O	19:UQ:488:LEU:HG	2.09	0.53
22:UT:498:ILE:HD11	22:UT:537:LEU:HB2	1.90	0.53
23:UU:353:PRO:HA	23:UU:370:SER:HB2	1.91	0.53
24:UV:217:LYS:O	24:UV:223:ARG:NE	2.41	0.53
26:CD:8:LEU:HD12	26:CD:82:LEU:HD21	1.90	0.53
33:CL:182:THR:HG22	62:D3:517:U:OP1	2.08	0.53
33:CL:310:THR:HG23	33:CL:313:TYR:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:JD:885:TYR:CE1	36:JD:1187:LEU:HB2	2.41	0.53
40:JL:132:GLN:HB2	62:D3:1780:G:O2'	2.09	0.53
41:JM:158:GLU:OE1	41:JM:158:GLU:N	2.42	0.53
48:DH:31:SER:CB	48:DH:34:LEU:HB2	2.38	0.53
62:D3:545:A:O2'	62:D3:546:U:O4'	2.23	0.53
62:D3:992:A:H2'	62:D3:993:A:H5'	1.90	0.53
62:D3:1590:G:C2	62:D3:1607:G:C2	2.97	0.53
1:CB:107:VAL:CG2	1:CB:141:TYR:HB3	2.39	0.53
6:UD:36:CYS:HB3	6:UD:755:ILE:HG13	1.89	0.53
6:UD:490:SER:O	6:UD:493:ASP:N	2.41	0.53
7:UE:111:ASP:OD2	7:UE:153:ILE:HG12	2.09	0.53
7:UE:522:THR:HG23	7:UE:523:LEU:CD1	2.39	0.53
17:UO:104:LEU:HD21	17:UO:119:SER:HB2	1.89	0.53
19:UQ:253:SER:OG	61:D2:81:A:OP1	2.24	0.53
20:UR:394:TRP:CZ3	20:UR:396:MET:HA	2.43	0.53
22:UT:1143:LYS:O	22:UT:1147:ILE:HD12	2.08	0.53
24:UV:185:LEU:HG	24:UV:190:ALA:HB2	1.90	0.53
24:UV:527:TYR:HB2	24:UV:615:VAL:CG2	2.38	0.53
29:CH:551:ARG:C	29:CH:553:ILE:H	2.15	0.53
33:CL:772:MET:O	33:CL:776:GLN:HB2	2.09	0.53
33:CL:1077:LEU:HD23	33:CL:1081:SER:O	2.08	0.53
37:JF:73:HIS:O	37:JF:77:LEU:HD23	2.09	0.53
50:DJ:170:GLY:O	50:DJ:174:ARG:HG2	2.09	0.53
62:D3:1661:U:H2'	62:D3:1662:G:H8	1.72	0.53
62:D3:1689:A:H2'	62:D3:1690:G:C8	2.43	0.53
63:D4:100:U:H2'	63:D4:101:G:C8	2.43	0.53
68:EE:139:ILE:HA	68:EE:157:SER:HA	1.90	0.53
69:EF:242:HIS:O	69:EF:246:GLN:N	2.41	0.53
1:CA:144:TRP:NE1	1:CA:183:HIS:HB3	2.24	0.53
1:CB:105:LEU:HD22	1:CB:143:VAL:HG21	1.90	0.53
1:CB:116:SER:OG	1:CB:120:GLU:OE1	2.25	0.53
7:UE:110:ILE:HD12	7:UE:119:CYS:HB3	1.89	0.53
19:UQ:680:ALA:HB3	19:UQ:690:ASN:HB2	1.91	0.53
20:UR:304:LEU:HB2	20:UR:362:HIS:NE2	2.23	0.53
22:UT:512:ASP:OD1	22:UT:513:ASN:N	2.42	0.53
22:UT:2212:THR:O	22:UT:2215:SER:OG	2.22	0.53
26:CD:52:SER:HB2	26:CD:85:ASN:HD21	1.74	0.53
27:CE:369:VAL:HG22	28:CF:63:ILE:HD12	1.88	0.53
27:CE:407:ARG:NH1	27:CE:408:THR:H	2.07	0.53
33:CL:140:LEU:O	33:CL:169:GLY:HA2	2.08	0.53
33:CL:826:LYS:HD2	33:CL:926:ILE:HG21	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CL:844:PRO:HA	33:CL:856:THR:O	2.09	0.53
34:CM:45:LEU:HD12	34:CM:67:ILE:HD11	1.91	0.53
36:JD:840:PRO:HD2	36:JD:843:LEU:HD12	1.90	0.53
36:JD:846:PRO:HB2	36:JD:849:SER:OG	2.09	0.53
36:JD:1000:PHE:HE2	36:JD:1148:PRO:HD2	1.74	0.53
45:DE:36:HIS:CG	45:DE:85:GLY:HA3	2.43	0.53
47:DG:160:ARG:NH2	62:D3:68:A:OP1	2.27	0.53
49:DI:34:ALA:HB2	49:DI:56:ARG:HD3	1.90	0.53
62:D3:126:A:N1	62:D3:263:C:O2'	2.41	0.53
63:D4:313:A:H2'	63:D4:314:C:C6	2.43	0.53
1:CB:182:SER:HB3	1:CB:210:MET:SD	2.48	0.53
6:UD:454:GLN:HB3	6:UD:461:LYS:HG3	1.90	0.53
11:UI:463:LYS:HB3	11:UI:466:GLU:HG2	1.91	0.53
12:UJ:33:LEU:HB2	12:UJ:119:GLU:HG2	1.90	0.53
12:UJ:752:ALA:O	12:UJ:756:LEU:HG	2.08	0.53
14:UL:88:HIS:HB2	14:UL:129:PHE:CZ	2.43	0.53
15:UM:30:LYS:HZ2	15:UM:46:THR:HA	1.74	0.53
17:UO:134:THR:OG1	17:UO:135:GLN:OE1	2.27	0.53
17:UO:141:ALA:HB1	17:UO:174:LEU:HD11	1.90	0.53
17:UO:301:PRO:HG2	17:UO:323:SER:OG	2.08	0.53
17:UO:371:GLU:HG3	20:UR:289:HIS:HB2	1.90	0.53
18:UP:195:GLU:OE2	18:UP:197:SER:OG	2.25	0.53
19:UQ:71:ASN:O	19:UQ:75:SER:OG	2.16	0.53
19:UQ:279:VAL:HG21	61:D2:82:A:N7	2.24	0.53
19:UQ:426:ARG:NH2	61:D2:67:G:OP2	2.42	0.53
23:UU:255:SER:OG	23:UU:301:ALA:O	2.26	0.53
25:UX:68:ASP:OD1	25:UX:69:THR:N	2.41	0.53
25:UX:90:LEU:HD12	25:UX:94:CYS:SG	2.49	0.53
25:UX:122:ASP:HB3	25:UX:125:ILE:HG12	1.91	0.53
29:CH:293:ASP:OD2	29:CH:310:ASN:HB2	2.09	0.53
30:CI:93:LYS:HB3	30:CI:96:ASP:CG	2.34	0.53
36:JD:917:VAL:HA	36:JD:920:GLU:OE1	2.08	0.53
36:JD:993:GLN:O	36:JD:993:GLN:NE2	2.41	0.53
44:JJ:132:LEU:HD23	44:JJ:132:LEU:H	1.73	0.53
49:DI:42:ARG:HH11	49:DI:59:ARG:HH21	1.56	0.53
51:DL:105:LYS:HZ1	62:D3:306:U:P	2.31	0.53
62:D3:893:U:H2'	62:D3:894:U:H6	1.72	0.53
62:D3:1655:A:N6	62:D3:1745:G:H21	2.07	0.53
62:D3:1657:U:H4'	62:D3:1658:G:C5'	2.39	0.53
73:EJ:46:TYR:N	73:EJ:53:LEU:O	2.42	0.53
3:UA:363:ALA:HB1	3:UA:390:VAL:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UB:754:GLU:HG3	4:UB:755:ILE:N	2.24	0.53
5:UC:434:PHE:CZ	37:JF:91:ILE:HD11	2.43	0.53
7:UE:532:ARG:HG3	17:UO:453:VAL:HG11	1.89	0.53
9:UG:312:VAL:HG21	9:UG:353:PRO:HG2	1.89	0.53
9:UG:321:ASN:OD1	9:UG:380:ASN:HA	2.09	0.53
14:UL:186:ILE:HG21	14:UL:229:TRP:HZ3	1.72	0.53
14:UL:614:HIS:HB2	14:UL:618:ILE:HG13	1.89	0.53
14:UL:816:GLN:NE2	62:D3:1154:G:OP1	2.41	0.53
22:UT:244:GLN:OE1	22:UT:245:GLU:HB2	2.09	0.53
22:UT:1238:ASN:O	22:UT:1241:GLN:NE2	2.42	0.53
22:UT:1310:SER:OG	22:UT:1326:SER:OG	2.26	0.53
22:UT:1935:LYS:O	22:UT:1939:ARG:HG2	2.09	0.53
23:UU:227:THR:O	23:UU:229:GLU:N	2.41	0.53
24:UV:256:TYR:CD2	24:UV:594:ILE:HA	2.44	0.53
28:CG:9:PHE:C	28:CG:9:PHE:CD2	2.85	0.53
33:CL:130:ASP:OD1	33:CL:131:ILE:N	2.42	0.53
33:CL:949:LYS:HG3	33:CL:950:ASP:HB2	1.90	0.53
34:CM:76:TYR:CE1	34:CM:78:PRO:HB3	2.44	0.53
36:JD:800:TRP:HB3	36:JD:834:PHE:CE1	2.44	0.53
37:JF:75:GLY:O	37:JF:79:LYS:HG2	2.07	0.53
42:JP:341:GLU:OE2	63:D4:30:A:N6	2.35	0.53
47:DG:58:LYS:HZ3	47:DG:105:ASP:C	2.16	0.53
47:DG:188:ARG:HD3	62:D3:283:U:H5"	1.89	0.53
52:DN:140:LYS:NZ	52:DN:142:GLU:OE2	2.42	0.53
62:D3:1630:U:H1'	62:D3:1631:A:H5"	1.91	0.53
69:EF:259:VAL:O	69:EF:263:GLU:N	2.32	0.53
6:UD:774:LEU:HD23	61:D2:84:G:C2	2.44	0.53
12:UJ:311:ASN:HD21	12:UJ:346:LYS:HE2	1.74	0.53
12:UJ:1396:LEU:O	12:UJ:1400:ILE:HD12	2.09	0.53
12:UJ:1423:LEU:HA	12:UJ:1426:ILE:HD12	1.91	0.53
19:UQ:497:ASP:HB2	19:UQ:510:TYR:HB3	1.91	0.53
20:UR:161:ILE:HD11	23:UU:177:LEU:HD21	1.91	0.53
22:UT:1472:HIS:CG	22:UT:1473:ALA:H	2.26	0.53
22:UT:2276:ILE:O	22:UT:2280:ILE:HG13	2.09	0.53
23:UU:853:ASN:N	23:UU:860:GLU:OE1	2.41	0.53
24:UV:1137:ASN:O	24:UV:1140:SER:OG	2.21	0.53
24:UV:1203:ASN:ND2	24:UV:1222:GLU:OE2	2.41	0.53
25:UX:115:ILE:HD11	57:DW:99:PHE:CZ	2.44	0.53
28:CG:5:ASN:HB2	29:CH:463:GLN:HA	1.90	0.53
29:CH:177:ASN:OD1	29:CH:178:GLY:N	2.37	0.53
30:CI:29:ASP:O	30:CI:33:MET:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CI:55:ARG:NH1	30:CI:98:GLU:O	2.40	0.53
36:JD:600:PHE:HB3	36:JD:605:GLU:HB3	1.90	0.53
37:JG:77:LEU:HD23	37:JG:84:ILE:HG13	1.91	0.53
42:JP:287:TYR:CD1	42:JP:300:VAL:HG12	2.44	0.53
55:DS:83:ALA:HA	55:DS:86:LEU:HD23	1.91	0.53
62:D3:1484:G:H21	62:D3:1606:C:H1'	1.73	0.53
69:EF:202:ALA:O	69:EF:206:SER:N	2.35	0.53
4:UB:474:CYS:O	4:UB:478:ILE:HG12	2.09	0.53
6:UD:225:LEU:HD11	28:CF:13:ASP:OD2	2.09	0.53
6:UD:371:LYS:C	6:UD:372:MET:HE2	2.33	0.53
12:UJ:1477:PHE:O	12:UJ:1480:THR:OG1	2.26	0.53
19:UQ:627:ASP:OD1	19:UQ:627:ASP:N	2.42	0.53
21:US:366:LEU:HD12	21:US:401:PHE:CZ	2.43	0.53
22:UT:656:LYS:HG3	22:UT:657:LEU:N	2.24	0.53
22:UT:711:GLN:HE21	22:UT:768:THR:HG23	1.73	0.53
22:UT:1779:VAL:HG12	22:UT:1780:ARG:N	2.20	0.53
22:UT:2228:PHE:HB3	22:UT:2232:TRP:CZ3	2.44	0.53
31:CJ:275:TRP:HZ2	31:CJ:290:LEU:HA	1.72	0.53
33:CL:549:ILE:HD13	33:CL:567:TRP:CD1	2.44	0.53
35:CN:66:HIS:HB3	35:CN:158:TRP:CH2	2.43	0.53
37:JF:167:ILE:HG13	37:JF:171:LEU:HD13	1.91	0.53
40:JL:133:ILE:O	40:JL:137:LEU:HD23	2.09	0.53
42:JP:393:LYS:CE	63:D4:36:C:H5'	2.39	0.53
46:DF:158:GLN:OE1	46:DF:159:ALA:N	2.41	0.53
55:DS:29:VAL:O	55:DS:33:THR:HG23	2.09	0.53
57:DW:76:SER:OG	57:DW:77:PRO:HD3	2.08	0.53
62:D3:1569:A:H2'	62:D3:1570:A:C8	2.43	0.53
75:EN:399:LYS:O	75:EN:403:LYS:N	2.38	0.53
4:UB:429:LEU:HD11	4:UB:455:LEU:HD22	1.91	0.53
10:UH:571:PHE:CD2	10:UH:606:ASP:HB3	2.44	0.53
12:UJ:1548:PHE:O	12:UJ:1552:VAL:HG23	2.08	0.53
12:UJ:1556:PHE:CE1	12:UJ:1600:PRO:HB2	2.44	0.53
14:UL:414:LEU:HD13	14:UL:457:PHE:HD2	1.74	0.53
15:UM:573:GLY:O	15:UM:600:LYS:NZ	2.42	0.53
17:UO:108:TYR:HA	17:UO:117:LEU:HB3	1.91	0.53
17:UO:224:THR:HG23	17:UO:225:GLN:HG3	1.91	0.53
22:UT:730:ASP:OD1	22:UT:730:ASP:N	2.42	0.53
22:UT:1316:MET:HG3	22:UT:1317:HIS:CD2	2.44	0.53
22:UT:1317:HIS:HB2	22:UT:1320:ASP:HB2	1.91	0.53
22:UT:2450:ILE:O	22:UT:2457:GLN:NE2	2.42	0.53
22:UT:2472:GLU:O	22:UT:2476:HIS:ND1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UU:27:PHE:CD2	23:UU:28:ARG:HG2	2.44	0.53
23:UU:373:ARG:HG2	23:UU:373:ARG:NH1	2.24	0.53
24:UV:648:PHE:O	24:UV:689:HIS:NE2	2.37	0.53
24:UV:1151:LYS:O	24:UV:1155:LEU:HG	2.09	0.53
25:UX:117:LEU:HD21	25:UX:121:ARG:HH11	1.71	0.53
28:CG:9:PHE:C	28:CG:9:PHE:HD2	2.16	0.53
32:CK:413:TYR:HD2	44:JJ:177:LEU:HD11	1.74	0.53
33:CL:775:GLU:HG3	33:CL:776:GLN:H	1.73	0.53
36:JD:501:MET:HG3	36:JD:531:MET:HE3	1.89	0.53
36:JD:1063:ARG:NH2	36:JD:1064:ASN:OD1	2.41	0.53
37:JG:97:LEU:HD11	37:JG:132:ARG:HG3	1.91	0.53
50:DJ:38:ASN:HB2	50:DJ:41:GLU:HG3	1.91	0.53
62:D3:1483:A:C2	62:D3:1607:G:H1'	2.44	0.53
12:UJ:766:ALA:O	12:UJ:769:LEU:HG	2.09	0.52
13:UK:3:LYS:NZ	62:D3:549:G:OP1	2.40	0.52
13:UK:112:GLN:OE1	63:D4:323:G:O2'	2.21	0.52
14:UL:330:GLN:NE2	14:UL:376:SER:O	2.41	0.52
14:UL:555:VAL:HB	14:UL:569:LEU:HB2	1.91	0.52
14:UL:764:GLU:OE2	14:UL:834:LYS:NZ	2.40	0.52
15:UM:154:GLY:HA3	15:UM:161:TRP:CE3	2.43	0.52
15:UM:451:PRO:HD2	15:UM:468:ILE:HD12	1.90	0.52
19:UQ:762:TYR:HB3	19:UQ:779:ILE:HG23	1.90	0.52
22:UT:1075:TRP:O	22:UT:1079:MET:HG3	2.09	0.52
22:UT:1133:LEU:O	22:UT:1136:THR:OG1	2.24	0.52
22:UT:1232:LEU:HD21	22:UT:1274:THR:HG21	1.91	0.52
22:UT:1381:LYS:CE	22:UT:1386:GLU:HG3	2.36	0.52
22:UT:2240:LEU:HG	22:UT:2280:ILE:HD13	1.90	0.52
23:UU:141:LYS:HD3	23:UU:154:TYR:HD1	1.73	0.52
23:UU:813:PHE:CD1	36:JD:1191:SER:HB3	2.43	0.52
24:UV:492:ALA:O	24:UV:496:LEU:HD23	2.09	0.52
27:CE:280:MET:HE1	27:CE:297:ALA:N	2.23	0.52
30:CI:93:LYS:HZ2	30:CI:94:ILE:H	1.57	0.52
37:JF:39:LYS:NZ	37:JF:200:GLU:O	2.40	0.52
37:JF:121:LEU:HD21	37:JF:167:ILE:HD13	1.91	0.52
46:DF:76:ARG:NH2	46:DF:79:ASN:OD1	2.43	0.52
60:Dc:34:GLU:OE1	60:Dc:34:GLU:N	2.40	0.52
72:EI:318:ARG:O	72:EI:322:ALA:N	2.38	0.52
3:UA:285:ARG:HE	3:UA:297:GLN:NE2	2.07	0.52
3:UA:355:PRO:HD3	3:UA:395:PHE:CD2	2.44	0.52
6:UD:326:ARG:HH11	6:UD:365:SER:HA	1.74	0.52
9:UG:244:ASN:O	9:UG:244:ASN:ND2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UM:105:SER:HA	15:UM:121:GLY:HA2	1.90	0.52
15:UM:172:VAL:HG23	15:UM:186:LEU:HB2	1.90	0.52
21:US:188:PHE:HB2	21:US:191:ILE:HB	1.90	0.52
22:UT:326:SER:OG	22:UT:328:ARG:NE	2.33	0.52
22:UT:441:ASP:OD1	22:UT:442:LYS:N	2.43	0.52
22:UT:581:LEU:O	22:UT:585:LEU:HG	2.09	0.52
22:UT:905:LEU:HD12	22:UT:956:PHE:HE1	1.75	0.52
22:UT:1186:TYR:CE2	22:UT:1227:ILE:HA	2.44	0.52
22:UT:1367:ALA:O	22:UT:1371:ILE:HG12	2.09	0.52
23:UU:125:GLY:HA3	27:CE:433:THR:HB	1.90	0.52
23:UU:488:ASN:ND2	54:DQ:98:ASP:OD2	2.42	0.52
23:UU:913:GLU:HG3	23:UU:917:LYS:NZ	2.25	0.52
24:UV:373:ARG:O	24:UV:516:SER:OG	2.28	0.52
24:UV:416:PHE:HD2	24:UV:421:LEU:HD23	1.73	0.52
24:UV:1016:GLN:HE22	24:UV:1044:LYS:HE2	1.73	0.52
25:UX:69:THR:HG23	25:UX:106:LEU:HD12	1.90	0.52
27:CE:385:ASP:OD1	27:CE:386:ILE:N	2.42	0.52
29:CH:456:ASP:HB3	29:CH:459:LEU:HB2	1.91	0.52
36:JD:1240:LYS:HE2	36:JD:1245:TRP:CE2	2.44	0.52
37:JF:41:MET:HE1	37:JF:204:VAL:HG13	1.90	0.52
62:D3:23:G:H2'	62:D3:24:U:H6	1.72	0.52
62:D3:1143:A:O2'	62:D3:1145:U:OP2	2.26	0.52
62:D3:1146:G:H2'	62:D3:1147:A:H8	1.74	0.52
62:D3:1592:A:N3	62:D3:1605:G:N2	2.58	0.52
65:EB:40:PHE:HA	65:EB:47:VAL:HA	1.92	0.52
74:EK:910:ASN:O	74:EK:911:GLU:CB	2.58	0.52
75:EN:921:GLU:O	75:EN:925:ASN:N	2.40	0.52
7:UE:111:ASP:OD1	7:UE:112:LEU:N	2.40	0.52
9:UG:132:GLY:HA2	9:UG:150:LEU:O	2.04	0.52
10:UH:711:ARG:NH1	10:UH:712:ALA:O	2.42	0.52
12:UJ:122:VAL:HA	12:UJ:127:ILE:HG12	1.89	0.52
12:UJ:709:ASN:O	12:UJ:710:LYS:HG3	2.09	0.52
14:UL:666:ALA:HB3	14:UL:670:GLY:H	1.74	0.52
17:UO:212:ASP:N	17:UO:212:ASP:OD1	2.40	0.52
19:UQ:510:TYR:CE1	19:UQ:527:HIS:HB3	2.45	0.52
20:UR:381:ASN:OD1	20:UR:382:GLY:N	2.38	0.52
20:UR:436:ASP:HB3	20:UR:444:ILE:HD11	1.90	0.52
22:UT:356:ASP:OD1	22:UT:357:LYS:N	2.41	0.52
22:UT:1369:HIS:HA	22:UT:1372:MET:HE3	1.91	0.52
24:UV:146:LEU:HD22	24:UV:169:PRO:HG3	1.90	0.52
24:UV:167:PRO:HB3	24:UV:226:HIS:CD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CD:113:PHE:O	26:CD:116:VAL:HG12	2.09	0.52
33:CL:3:GLN:NE2	62:D3:1793:G:N3	2.40	0.52
33:CL:982:LYS:HB3	33:CL:983:PRO:HD3	1.90	0.52
36:JD:926:TYR:CD1	36:JD:1007:LEU:HD21	2.44	0.52
46:DF:73:THR:N	46:DF:91:GLU:OE1	2.42	0.52
48:DH:39:ARG:HG3	48:DH:40:PRO:HD3	1.91	0.52
4:UB:659:GLU:HA	4:UB:662:LEU:HG	1.91	0.52
6:UD:593:GLU:HB3	6:UD:615:SER:OG	2.09	0.52
6:UD:622:LEU:O	6:UD:627:LYS:NZ	2.31	0.52
9:UG:335:GLY:O	9:UG:377:LYS:HA	2.09	0.52
9:UG:354:CYS:SG	9:UG:364:ARG:NH1	2.83	0.52
12:UJ:1454:LEU:HD13	12:UJ:1457:LEU:HD12	1.90	0.52
13:UK:59:ASN:O	13:UK:61:ASP:N	2.36	0.52
13:UK:61:ASP:OD2	30:CI:160:TRP:CD1	2.62	0.52
15:UM:43:ILE:HD12	15:UM:378:PRO:HG3	1.91	0.52
15:UM:88:PHE:HE2	15:UM:90:LEU:HD23	1.73	0.52
17:UO:62:ARG:NH1	17:UO:76:THR:HA	2.25	0.52
17:UO:146:ASP:HB3	17:UO:148:VAL:HG22	1.90	0.52
17:UO:421:LEU:HD22	17:UO:462:TRP:CH2	2.45	0.52
20:UR:325:ASP:OD1	20:UR:326:LEU:N	2.43	0.52
22:UT:992:LYS:HE2	22:UT:996:ARG:HH11	1.74	0.52
22:UT:1189:LEU:HD22	22:UT:1194:SER:OG	2.09	0.52
22:UT:1587:LYS:HD2	22:UT:1623:LEU:HD13	1.91	0.52
23:UU:434:HIS:NE2	23:UU:441:ARG:HG3	2.23	0.52
27:CE:96:ASN:HB2	27:CE:100:LYS:HZ3	1.73	0.52
36:JD:30:GLN:HE21	62:D3:317:C:C5'	2.22	0.52
36:JD:473:VAL:HA	36:JD:489:VAL:O	2.09	0.52
37:JF:115:GLN:NE2	37:JF:116:THR:O	2.36	0.52
37:JG:70:CYS:HB3	37:JG:87:ALA:O	2.10	0.52
49:DI:57:ALA:HB2	49:DI:177:GLY:HA2	1.91	0.52
55:DS:100:THR:O	55:DS:104:ASN:ND2	2.42	0.52
61:D2:476:A:H2'	61:D2:477:G:C8	2.44	0.52
3:UA:472:HIS:ND1	3:UA:492:SER:OG	2.36	0.52
3:UA:747:GLU:OE2	23:UU:598:ARG:NH2	2.43	0.52
1:CB:88:ILE:HD11	1:CB:97:TYR:HB3	1.91	0.52
6:UD:536:VAL:HA	6:UD:541:ALA:HA	1.91	0.52
8:UF:125:SER:HB3	8:UF:128:LYS:H	1.75	0.52
9:UG:123:THR:HG23	9:UG:124:HIS:CD2	2.37	0.52
9:UG:123:THR:OG1	9:UG:140:ARG:NH1	2.42	0.52
12:UJ:52:ALA:HB2	12:UJ:120:TRP:HB2	1.90	0.52
12:UJ:1520:THR:O	12:UJ:1524:ILE:HD12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UK:68:HIS:NE2	30:CI:169:THR:HG21	2.25	0.52
14:UL:284:PHE:CD1	14:UL:328:PRO:HA	2.44	0.52
15:UM:696:ASN:O	15:UM:700:ARG:HG2	2.10	0.52
19:UQ:154:LEU:HD12	19:UQ:171:TYR:HD2	1.73	0.52
22:UT:46:HIS:HB2	22:UT:116:ASP:OD1	2.09	0.52
22:UT:1475:GLN:HG3	22:UT:1517:HIS:HB3	1.91	0.52
22:UT:1667:ALA:O	22:UT:1670:LEU:HB3	2.09	0.52
22:UT:1689:VAL:O	22:UT:1693:THR:HG23	2.09	0.52
22:UT:2438:LEU:HB3	22:UT:2442:LYS:NZ	2.25	0.52
23:UU:354:SER:H	23:UU:370:SER:HA	1.74	0.52
23:UU:594:SER:HA	23:UU:634:PHE:CD2	2.44	0.52
31:CJ:236:HIS:CD2	31:CJ:247:ILE:HD12	2.44	0.52
36:JD:91:ARG:O	36:JD:95:LYS:HG2	2.08	0.52
36:JD:1032:GLY:HA2	36:JD:1035:MET:HE2	1.92	0.52
40:JL:40:LYS:HE3	40:JL:197:ARG:HG3	1.91	0.52
41:JM:165:ASN:HB2	41:JM:168:GLU:HB2	1.92	0.52
62:D3:1477:G:H2'	62:D3:1478:G:C8	2.42	0.52
62:D3:1671:A:H3'	62:D3:1672:G:H8	1.74	0.52
62:D3:1753:A:C4	62:D3:1754:A:N7	2.77	0.52
67:ED:40:ARG:N	67:ED:44:ARG:O	2.40	0.52
75:EN:489:ILE:O	75:EN:493:GLU:N	2.40	0.52
2:DA:179:SER:OG	2:DA:180:THR:N	2.39	0.52
3:UA:23:SER:HA	3:UA:63:LEU:HD23	1.91	0.52
3:UA:99:CYS:SG	3:UA:113:LEU:HD11	2.49	0.52
3:UA:497:ILE:HD11	3:UA:532:VAL:HG21	1.92	0.52
6:UD:532:ASN:N	6:UD:544:SER:O	2.41	0.52
6:UD:769:PHE:HA	18:UP:213:LYS:HA	1.91	0.52
7:UE:349:ASP:O	7:UE:352:SER:OG	2.23	0.52
8:UF:125:SER:OG	8:UF:127:LYS:HB2	2.09	0.52
9:UG:83:THR:OG1	9:UG:368:TYR:O	2.18	0.52
12:UJ:376:GLU:HG2	12:UJ:379:GLU:OE1	2.10	0.52
12:UJ:696:LEU:HD13	12:UJ:740:ALA:HB2	1.91	0.52
14:UL:446:ILE:HG13	14:UL:455:GLN:O	2.10	0.52
15:UM:409:ASP:HB3	15:UM:411:THR:HG22	1.91	0.52
17:UO:44:HIS:CD2	17:UO:86:SER:HA	2.43	0.52
17:UO:262:GLU:HG3	17:UO:270:SER:OG	2.10	0.52
18:UP:208:ARG:HG2	18:UP:211:LEU:HD23	1.91	0.52
19:UQ:68:PHE:O	19:UQ:75:SER:OG	2.27	0.52
19:UQ:113:ASN:O	19:UQ:133:LYS:NZ	2.39	0.52
19:UQ:174:TYR:HD1	19:UQ:189:HIS:HA	1.75	0.52
19:UQ:356:LEU:HD21	19:UQ:372:LEU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:US:436:LYS:O	21:US:440:GLU:HG2	2.10	0.52
22:UT:250:LYS:O	22:UT:254:ILE:HG13	2.09	0.52
22:UT:715:TYR:HE2	22:UT:758:ILE:HG23	1.75	0.52
22:UT:1191:ASP:HB3	22:UT:1194:SER:HB3	1.91	0.52
22:UT:1386:GLU:OE1	22:UT:1386:GLU:N	2.39	0.52
22:UT:1536:THR:HG23	22:UT:1537:LYS:HG2	1.92	0.52
22:UT:1782:ASN:OD1	22:UT:1783:LEU:N	2.42	0.52
22:UT:1990:LEU:HA	22:UT:1996:GLN:HG3	1.92	0.52
22:UT:2284:LEU:HD21	22:UT:2293:LEU:HD11	1.90	0.52
24:UV:385:LEU:HG	24:UV:582:GLN:HE21	1.74	0.52
24:UV:526:CYS:HB3	24:UV:616:LYS:HZ2	1.75	0.52
27:CE:69:SER:H	27:CE:72:LEU:HD12	1.74	0.52
28:CG:39:GLU:OE1	63:D4:256:G:N2	2.39	0.52
31:CJ:225:ALA:O	31:CJ:231:ILE:HA	2.08	0.52
33:CL:754:GLN:O	33:CL:758:ILE:HG12	2.10	0.52
33:CL:893:ASN:ND2	58:DX:98:GLU:HB2	2.24	0.52
36:JD:440:ASP:OD1	36:JD:441:TYR:N	2.43	0.52
36:JD:461:ARG:HA	36:JD:464:ASN:HD21	1.75	0.52
37:JF:41:MET:SD	37:JF:202:ILE:HG23	2.49	0.52
37:JF:175:CYS:SG	37:JF:201:SER:OG	2.59	0.52
40:JL:135:SER:HB3	40:JL:136:PRO:HD3	1.92	0.52
46:DF:205:SER:O	46:DF:206:SER:OG	2.26	0.52
54:DQ:20:ALA:HB2	54:DQ:84:ALA:HB1	1.91	0.52
62:D3:1600:A:H4'	62:D3:1601:G:H5'	1.90	0.52
62:D3:1667:A:H2'	62:D3:1668:G:C8	2.45	0.52
63:D4:147:C:H2'	63:D4:148:G:H8	1.74	0.52
71:EH:232:LYS:O	71:EH:236:THR:N	2.43	0.52
1:CA:202:ARG:HD2	28:CG:69:LEU:HD12	1.92	0.52
2:DA:195:LYS:NZ	24:UV:787:GLU:OE2	2.41	0.52
3:UA:422:PHE:HB3	3:UA:423:ARG:HG3	1.91	0.52
3:UA:556:ARG:HB3	3:UA:556:ARG:NH1	2.25	0.52
1:CB:117:VAL:HG23	1:CB:118:TYR:HD1	1.73	0.52
10:UH:661:TYR:O	10:UH:664:LYS:HG3	2.09	0.52
14:UL:179:SER:O	14:UL:186:ILE:HD12	2.10	0.52
15:UM:512:ASP:OD1	15:UM:514:THR:HG22	2.10	0.52
15:UM:620:LEU:HD11	15:UM:634:SER:HB3	1.92	0.52
19:UQ:302:SER:HB2	19:UQ:342:ILE:O	2.10	0.52
19:UQ:509:THR:OG1	19:UQ:530:LYS:HB2	2.10	0.52
19:UQ:531:PHE:HB2	19:UQ:545:THR:OG1	2.10	0.52
20:UR:133:ILE:O	20:UR:157:GLY:N	2.42	0.52
21:US:188:PHE:CD2	21:US:191:ILE:HD12	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:2227:GLY:O	22:UT:2231:ILE:HG12	2.10	0.52
23:UU:392:ARG:CZ	23:UU:449:ARG:HH12	2.22	0.52
23:UU:738:ASP:N	23:UU:738:ASP:OD1	2.39	0.52
33:CL:966:ILE:HG22	33:CL:975:GLU:N	2.25	0.52
36:JD:451:ARG:HG3	36:JD:454:ALA:H	1.75	0.52
36:JD:551:LYS:O	36:JD:554:LYS:NZ	2.32	0.52
36:JD:823:ARG:HB3	36:JD:825:TYR:CZ	2.45	0.52
37:JF:243:HIS:HB3	37:JG:240:LYS:NZ	2.25	0.52
44:JJ:186:GLU:O	44:JJ:189:ASP:HB2	2.10	0.52
45:DE:181:VAL:HG13	45:DE:225:VAL:HG13	1.92	0.52
46:DF:220:VAL:O	46:DF:223:SER:OG	2.25	0.52
48:DH:14:THR:HB	48:DH:17:GLU:OE1	2.10	0.52
56:DT:63:ARG:NH1	62:D3:1481:C:OP1	2.42	0.52
2:DA:82:ARG:NH2	2:DA:189:ILE:O	2.42	0.52
3:UA:220:PHE:CE1	3:UA:247:SER:HA	2.44	0.52
9:UG:440:ASP:OD1	9:UG:440:ASP:N	2.43	0.52
12:UJ:720:LEU:HA	12:UJ:723:LEU:HD23	1.92	0.52
12:UJ:1461:TRP:HB2	12:UJ:1477:PHE:CE1	2.44	0.52
14:UL:344:THR:O	14:UL:352:GLU:HB2	2.10	0.52
14:UL:468:ILE:HD11	14:UL:522:LEU:HB2	1.91	0.52
15:UM:626:MET:HA	15:UM:626:MET:HE2	1.92	0.52
20:UR:284:LEU:HD21	20:UR:287:SER:HB3	1.91	0.52
20:UR:346:TYR:CE2	20:UR:393:LEU:HA	2.45	0.52
22:UT:759:SER:O	22:UT:763:GLU:HG3	2.10	0.52
22:UT:1431:PHE:O	22:UT:1435:GLU:HG2	2.10	0.52
22:UT:1776:LEU:HD21	22:UT:1781:ILE:HD12	1.90	0.52
22:UT:2006:LEU:O	22:UT:2009:LYS:O	2.28	0.52
23:UU:78:SER:OG	23:UU:79:SER:N	2.43	0.52
24:UV:389:GLY:H	24:UV:392:GLU:CD	2.17	0.52
24:UV:905:SER:HB2	24:UV:981:LYS:HD2	1.91	0.52
31:CJ:173:ARG:HA	31:CJ:176:ILE:CD1	2.30	0.52
37:JG:109:LYS:HB3	37:JG:249:TRP:HZ3	1.74	0.52
42:JP:205:ASP:OD1	42:JP:206:VAL:N	2.43	0.52
45:DE:71:LYS:HG2	45:DE:76:VAL:HG22	1.90	0.52
52:DN:124:ARG:HD3	62:D3:966:A:OP2	2.10	0.52
56:DT:65:ILE:O	56:DT:68:ARG:O	2.28	0.52
57:DW:87:GLU:OE1	57:DW:117:ARG:NH2	2.43	0.52
62:D3:828:U:O4	62:D3:829:A:N6	2.43	0.52
2:DA:35:PRO:HD2	2:DA:38:PHE:HE2	1.74	0.52
2:DA:241:GLY:HA3	24:UV:656:ARG:HG2	1.91	0.52
2:DA:242:LYS:HB2	24:UV:657:ARG:HE	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:263:LYS:NZ	6:UD:275:SER:OG	2.43	0.52
8:UF:142:THR:CA	8:UF:175:ASN:HD21	2.20	0.52
14:UL:262:ILE:O	14:UL:270:SER:N	2.43	0.52
14:UL:558:PHE:CD1	14:UL:565:PHE:HA	2.45	0.52
15:UM:665:GLN:HB2	15:UM:684:LEU:HD12	1.92	0.52
17:UO:268:MET:HE3	17:UO:287:LEU:HD12	1.91	0.52
18:UP:158:LYS:O	18:UP:161:LYS:HG3	2.10	0.52
19:UQ:56:SER:HB3	19:UQ:59:THR:HG22	1.92	0.52
20:UR:424:ILE:HD12	20:UR:434:GLU:HG2	1.92	0.52
22:UT:299:TYR:O	22:UT:303:ASN:ND2	2.43	0.52
22:UT:1313:SER:HA	22:UT:1316:MET:HE2	1.91	0.52
22:UT:1675:LYS:HG3	22:UT:1716:MET:HE1	1.92	0.52
22:UT:1779:VAL:CG1	22:UT:1780:ARG:H	2.20	0.52
22:UT:2096:SER:O	22:UT:2099:SER:OG	2.22	0.52
26:CD:266:THR:O	26:CD:269:GLU:HG3	2.10	0.52
31:CJ:191:PHE:O	32:CK:372:ARG:NH2	2.43	0.52
33:CL:125:LEU:HB2	33:CL:912:ARG:HH21	1.74	0.52
33:CL:302:GLU:OE2	33:CL:303:LYS:N	2.43	0.52
33:CL:880:TYR:CB	58:DX:94:ASN:HD21	2.22	0.52
33:CL:1138:ARG:NH2	62:D3:494:U:OP1	2.43	0.52
36:JD:381:SER:HB2	36:JD:384:ILE:HD11	1.90	0.52
49:DI:172:ARG:HE	49:DI:175:GLN:HG3	1.73	0.52
54:DQ:31:VAL:HG22	54:DQ:67:VAL:HB	1.91	0.52
56:DT:38:LYS:HZ1	56:DT:45:MET:N	2.08	0.52
60:Dc:26:THR:HG22	60:Dc:27:GLN:O	2.10	0.52
62:D3:17:C:H2'	62:D3:18:C:C6	2.45	0.52
62:D3:287:G:O2'	62:D3:288:A:P	2.68	0.52
75:EN:433:SER:O	75:EN:437:LYS:N	2.40	0.52
75:EN:771:GLY:HA2	75:EN:807:VAL:HA	1.91	0.52
1:CB:253:ILE:HG13	1:CB:269:ILE:HD12	1.91	0.52
6:UD:77:GLU:HB3	6:UD:79:TRP:HE1	1.74	0.52
7:UE:253:LEU:HD23	7:UE:301:LEU:HD21	1.92	0.52
9:UG:63:THR:HG21	42:JP:28:LEU:HG	1.90	0.52
9:UG:238:MET:HE3	9:UG:247:MET:HE3	1.91	0.52
9:UG:417:ASN:HB3	9:UG:419:PHE:O	2.10	0.52
12:UJ:271:LYS:HA	20:UR:220:ASP:HB2	1.91	0.52
12:UJ:560:ILE:HG22	12:UJ:599:PHE:HB3	1.92	0.52
12:UJ:642:THR:HB	12:UJ:676:LYS:HE3	1.92	0.52
12:UJ:1445:ILE:HD13	12:UJ:1483:SER:HB2	1.90	0.52
12:UJ:1749:ARG:HH12	22:UT:37:ARG:CZ	2.23	0.52
14:UL:129:PHE:HB3	14:UL:136:LEU:CD1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UM:496:ALA:HB2	15:UM:538:ASP:HA	1.92	0.52
16:UN:779:GLU:HG3	16:UN:821:ARG:HH12	1.75	0.52
17:UO:39:HIS:CE1	55:DS:56:LYS:HZ1	2.27	0.52
19:UQ:19:LYS:HD3	19:UQ:781:SER:H	1.75	0.52
19:UQ:241:LEU:HD12	19:UQ:244:ILE:HB	1.91	0.52
22:UT:209:ARG:HB3	22:UT:213:ARG:HH22	1.74	0.52
22:UT:897:PHE:CZ	22:UT:901:ILE:HD11	2.44	0.52
22:UT:1328:PHE:O	22:UT:1332:ILE:HG23	2.10	0.52
22:UT:1335:GLY:H	22:UT:1373:LYS:HZ3	1.58	0.52
22:UT:1882:ARG:HH22	62:D3:650:U:H5'	1.74	0.52
22:UT:1927:SER:O	22:UT:1930:SER:OG	2.19	0.52
22:UT:2034:GLU:OE2	62:D3:653:C:O2'	2.26	0.52
22:UT:2353:SER:O	22:UT:2356:SER:OG	2.24	0.52
23:UU:802:MET:SD	36:JD:1210:TYR:HB3	2.49	0.52
24:UV:309:LEU:HD21	24:UV:473:LYS:HB3	1.92	0.52
24:UV:577:ARG:NH1	24:UV:624:CYS:O	2.43	0.52
24:UV:907:GLN:CD	24:UV:907:GLN:H	2.18	0.52
27:CE:34:SER:HB2	27:CE:122:GLU:OE1	2.09	0.52
27:CE:248:THR:HG23	27:CE:251:ASP:H	1.74	0.52
28:CG:25:GLN:OE1	29:CH:342:ARG:HG2	2.09	0.52
33:CL:746:GLU:HB3	33:CL:752:GLU:OE1	2.10	0.52
36:JD:393:VAL:HG12	36:JD:583:VAL:HG21	1.91	0.52
36:JD:442:PRO:O	36:JD:511:SER:OG	2.25	0.52
36:JD:469:HIS:HB3	36:JD:472:LYS:HD2	1.92	0.52
36:JD:766:THR:HA	36:JD:812:ARG:NH2	2.17	0.52
44:JJ:164:LEU:HD13	44:JJ:232:HIS:ND1	2.25	0.52
63:D4:62:C:H2'	63:D4:63:C:C6	2.45	0.52
2:DA:149:GLN:OE1	62:D3:1066:C:H4'	2.10	0.51
3:UA:308:VAL:HG22	3:UA:319:PHE:CE1	2.45	0.51
5:UC:594:GLU:HA	5:UC:594:GLU:OE2	2.10	0.51
11:UI:477:LYS:O	11:UI:480:LYS:HG3	2.09	0.51
13:UK:185:MET:O	13:UK:189:SER:OG	2.26	0.51
15:UM:301:GLN:OE1	15:UM:314:ILE:N	2.43	0.51
15:UM:536:LEU:HD23	15:UM:552:SER:HA	1.92	0.51
17:UO:123:SER:OG	17:UO:150:ARG:NH1	2.44	0.51
20:UR:462:GLY:HA2	20:UR:527:GLY:HA3	1.92	0.51
22:UT:1017:LEU:HD21	22:UT:1023:LEU:HB2	1.93	0.51
22:UT:1098:ASN:HD21	22:UT:1106:LEU:HB2	1.75	0.51
22:UT:1155:ASP:OD2	22:UT:1201:LEU:HG	2.10	0.51
22:UT:1470:GLY:HA2	22:UT:1472:HIS:CE1	2.45	0.51
22:UT:2213:PHE:CE2	22:UT:2235:ILE:HD11	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UU:382:LYS:O	23:UU:384:ALA:N	2.43	0.51
24:UV:367:ARG:NH1	24:UV:390:THR:HG21	2.25	0.51
24:UV:400:LEU:HB3	24:UV:412:LEU:HD23	1.91	0.51
24:UV:441:GLN:HG3	24:UV:468:PHE:HD2	1.75	0.51
24:UV:1228:ASN:OD1	24:UV:1229:ASP:N	2.43	0.51
27:CE:230:GLU:O	27:CE:233:GLU:HG3	2.10	0.51
28:CF:32:GLN:HE21	28:CF:105:ASN:CB	2.19	0.51
32:CK:408:SER:OG	44:JJ:169:ASP:OD2	2.28	0.51
33:CL:735:GLY:HA3	34:CM:251:GLN:NE2	2.23	0.51
33:CL:931:LYS:HB2	33:CL:1006:TRP:CZ3	2.43	0.51
36:JD:740:THR:HA	36:JD:743:GLN:CD	2.34	0.51
40:JL:162:ARG:HH22	62:D3:1778:G:H3'	1.75	0.51
40:JL:201:GLN:HE22	62:D3:1783:C:P	2.33	0.51
42:JP:126:LYS:NZ	42:JP:128:PRO:HA	2.26	0.51
42:JP:314:SER:HA	42:JP:356:TYR:CD2	2.45	0.51
47:DG:61:PHE:HD2	47:DG:72:ARG:NE	2.08	0.51
62:D3:1686:C:O2	62:D3:1715:G:N2	2.39	0.51
63:D4:94:A:H61	63:D4:322:A:H61	1.58	0.51
63:D4:201:C:N3	63:D4:249:G:N1	2.58	0.51
1:CB:171:LEU:HB2	1:CB:237:VAL:HG11	1.91	0.51
1:CB:204:GLY:O	1:CB:208:ILE:HG12	2.10	0.51
5:UC:604:ARG:HH12	25:UX:44:ILE:HG22	1.75	0.51
12:UJ:526:LEU:O	12:UJ:530:THR:HG23	2.10	0.51
13:UK:230:LYS:HB3	13:UK:242:PHE:HD2	1.75	0.51
14:UL:88:HIS:HB2	14:UL:129:PHE:CE2	2.45	0.51
14:UL:568:SER:HB3	14:UL:570:TYR:HE1	1.74	0.51
14:UL:912:TRP:CG	15:UM:779:VAL:HG21	2.45	0.51
15:UM:153:TYR:HE2	15:UM:160:ILE:HD12	1.76	0.51
15:UM:461:LEU:HD11	15:UM:489:ALA:H	1.76	0.51
15:UM:692:MET:HE2	32:CK:515:MET:CE	2.37	0.51
19:UQ:54:VAL:HB	19:UQ:64:LYS:HB3	1.91	0.51
19:UQ:397:LYS:HG2	19:UQ:398:HIS:CD2	2.46	0.51
22:UT:333:TRP:CZ2	22:UT:369:SER:HA	2.45	0.51
22:UT:1332:ILE:HG22	22:UT:1366:ASN:ND2	2.25	0.51
22:UT:1592:PRO:O	22:UT:1595:SER:C	2.54	0.51
22:UT:2003:LEU:HD22	22:UT:2019:ILE:HG21	1.91	0.51
24:UV:210:PRO:HD2	24:UV:213:LEU:HD12	1.93	0.51
24:UV:712:ASN:N	24:UV:1113:GLY:O	2.36	0.51
24:UV:858:ARG:NH2	62:D3:1058:U:O2	2.43	0.51
24:UV:1102:LEU:HD11	24:UV:1180:ASN:HB2	1.92	0.51
26:CD:301:PRO:HG2	26:CD:396:PRO:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:JF:91:ILE:O	37:JF:94:GLN:NE2	2.43	0.51
56:DT:50:ALA:HA	56:DT:53:TRP:HD1	1.75	0.51
62:D3:119:A:H1'	62:D3:397:A:C5	2.45	0.51
63:D4:62:C:H2'	63:D4:63:C:H6	1.75	0.51
63:D4:164:C:H2'	63:D4:165:G:H8	1.75	0.51
6:UD:124:THR:HG21	18:UP:191:PRO:HB3	1.91	0.51
6:UD:225:LEU:O	6:UD:225:LEU:HD12	2.10	0.51
7:UE:7:GLN:HB2	7:UE:20:VAL:HG22	1.92	0.51
7:UE:439:VAL:HG23	7:UE:440:ILE:HD12	1.91	0.51
15:UM:263:GLY:O	15:UM:289:PHE:HA	2.11	0.51
17:UO:183:LEU:HD11	17:UO:195:LEU:HD21	1.92	0.51
19:UQ:878:ASN:HB2	19:UQ:890:ARG:HH12	1.75	0.51
20:UR:401:GLU:OE2	20:UR:401:GLU:N	2.34	0.51
22:UT:2166:LYS:HD3	22:UT:2169:LEU:HD21	1.92	0.51
22:UT:2467:HIS:O	22:UT:2471:ARG:HG3	2.10	0.51
24:UV:764:SER:O	24:UV:914:ARG:NH1	2.43	0.51
27:CE:345:ALA:HB3	27:CE:348:VAL:HG22	1.91	0.51
27:CE:380:ARG:NH1	27:CE:382:ASP:OD1	2.42	0.51
33:CL:560:PRO:HB2	34:CM:320:GLU:OE1	2.10	0.51
33:CL:619:GLU:OE1	33:CL:619:GLU:N	2.24	0.51
34:CM:339:LEU:HB3	34:CM:350:MET:HE2	1.92	0.51
36:JD:505:PHE:C	36:JD:506:LYS:HD2	2.36	0.51
36:JD:800:TRP:HB3	36:JD:834:PHE:HE1	1.74	0.51
37:JF:174:LYS:HG2	37:JF:200:GLU:HA	1.92	0.51
40:JL:65:PRO:HD2	40:JL:85:GLU:OE2	2.10	0.51
71:EH:203:ASN:O	71:EH:207:CYS:N	2.40	0.51
1:CA:81:ARG:HH11	41:JM:164:MET:HG3	1.74	0.51
4:UB:477:TYR:O	4:UB:480:GLU:HG3	2.09	0.51
4:UB:657:PHE:HD2	4:UB:691:LEU:HD22	1.75	0.51
4:UB:790:THR:HG23	4:UB:791:GLU:HG2	1.92	0.51
7:UE:119:CYS:SG	7:UE:127:TYR:HB2	2.51	0.51
7:UE:250:ASP:O	7:UE:288:LYS:NZ	2.40	0.51
14:UL:400:SER:HB3	14:UL:438:PHE:CZ	2.45	0.51
15:UM:257:ILE:HG21	15:UM:269:LEU:HD23	1.92	0.51
15:UM:455:LEU:HD22	15:UM:506:PHE:CE1	2.45	0.51
17:UO:27:TRP:HH2	17:UO:268:MET:HB3	1.75	0.51
17:UO:147:ARG:HG2	17:UO:170:TYR:H	1.75	0.51
17:UO:149:THR:C	17:UO:150:ARG:HD3	2.36	0.51
19:UQ:473:LEU:HB3	19:UQ:530:LYS:HZ2	1.76	0.51
19:UQ:669:ASN:HB3	19:UQ:749:ASP:HB3	1.92	0.51
22:UT:66:PHE:HB2	22:UT:94:PHE:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1127:PHE:CZ	22:UT:1166:HIS:HB3	2.42	0.51
22:UT:1643:LEU:HD21	22:UT:1693:THR:HG21	1.91	0.51
22:UT:2471:ARG:NH1	62:D3:845:G:H3'	2.25	0.51
23:UU:885:MET:HE1	23:UU:888:LEU:HD23	1.92	0.51
24:UV:444:SER:OG	24:UV:471:SER:OG	2.12	0.51
30:CI:174:ARG:HB3	30:CI:176:GLN:HG3	1.92	0.51
31:CJ:116:ARG:HD2	31:CJ:117:LEU:N	2.26	0.51
33:CL:942:PHE:HB3	62:D3:1594:G:H5"	1.92	0.51
35:CN:38:PHE:HB2	35:CN:56:VAL:HB	1.91	0.51
36:JD:915:LEU:HD12	36:JD:1049:ILE:HG21	1.91	0.51
37:JG:177:LYS:HG2	37:JG:221:VAL:HG12	1.92	0.51
42:JP:94:TYR:HD2	42:JP:103:PHE:HD2	1.58	0.51
42:JP:244:ILE:HD11	42:JP:264:THR:HG21	1.91	0.51
47:DG:95:LYS:NZ	62:D3:160:C:O3'	2.43	0.51
49:DI:70:GLU:OE1	49:DI:70:GLU:N	2.41	0.51
53:DO:12:GLN:HB3	53:DO:77:THR:OG1	2.10	0.51
56:DT:57:ARG:NE	62:D3:1479:A:OP1	2.42	0.51
56:DT:66:TYR:HB2	56:DT:124:ILE:HD12	1.91	0.51
62:D3:191:C:O2'	62:D3:192:U:O4'	2.23	0.51
62:D3:1545:A:H2'	62:D3:1546:G:H8	1.76	0.51
62:D3:1582:U:C4	62:D3:1614:A:C8	2.98	0.51
1:CA:202:ARG:HB2	1:CA:203:PRO:HD3	1.92	0.51
3:UA:562:GLY:HA3	3:UA:625:GLY:O	2.10	0.51
4:UB:427:ALA:HA	4:UB:473:GLU:OE1	2.10	0.51
4:UB:656:ALA:HB2	21:US:464:TRP:C	2.36	0.51
4:UB:734:ARG:HH22	62:D3:1544:U:H1'	1.76	0.51
6:UD:769:PHE:HD1	18:UP:213:LYS:HG2	1.75	0.51
8:UF:57:ILE:HD13	8:UF:96:TYR:CZ	2.46	0.51
12:UJ:1738:GLU:OE2	22:UT:201:ARG:NH2	2.33	0.51
12:UJ:1742:GLU:HA	12:UJ:1745:GLU:CG	2.36	0.51
14:UL:877:LYS:HZ1	15:UM:817:PHE:HB3	1.75	0.51
15:UM:279:LYS:HD3	15:UM:325:ASP:O	2.10	0.51
17:UO:43:THR:O	17:UO:304:SER:OG	2.28	0.51
19:UQ:575:THR:O	19:UQ:582:LEU:HA	2.11	0.51
21:US:317:ILE:HG23	21:US:358:PHE:HD1	1.74	0.51
22:UT:668:GLY:O	22:UT:671:THR:OG1	2.18	0.51
22:UT:1088:LYS:HB2	22:UT:1089:PRO:HD3	1.92	0.51
23:UU:86:HIS:CG	23:UU:87:PHE:H	2.29	0.51
23:UU:174:ALA:O	23:UU:175:THR:OG1	2.25	0.51
23:UU:523:ASP:N	23:UU:523:ASP:OD1	2.43	0.51
24:UV:873:GLU:HG2	24:UV:874:LEU:HD22	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UX:123:PRO:HD3	42:JP:67:ARG:HD2	1.92	0.51
25:UX:189:PHE:HE1	50:DJ:15:PRO:HB3	1.76	0.51
33:CL:90:VAL:O	33:CL:94:THR:HG22	2.10	0.51
33:CL:222:ASN:HA	33:CL:225:ARG:HD3	1.93	0.51
36:JD:1002:ASP:N	36:JD:1002:ASP:OD1	2.42	0.51
40:JL:164:LEU:HD21	40:JL:187:HIS:HB2	1.93	0.51
44:JJ:113:TRP:HA	44:JJ:116:ILE:HD12	1.91	0.51
62:D3:1688:U:H2'	62:D3:1689:A:C8	2.46	0.51
3:UA:308:VAL:HG22	3:UA:319:PHE:CD1	2.46	0.51
7:UE:480:LEU:O	7:UE:484:LEU:HG	2.11	0.51
12:UJ:689:GLU:HA	12:UJ:692:ILE:HD12	1.93	0.51
15:UM:30:LYS:HE3	15:UM:45:LEU:O	2.11	0.51
15:UM:175:TRP:HD1	15:UM:181:LYS:O	1.94	0.51
15:UM:264:ASP:HB3	15:UM:266:ILE:HG12	1.92	0.51
16:UN:289:GLU:OE1	42:JP:468:TYR:OH	2.13	0.51
17:UO:455:SER:O	17:UO:459:VAL:HG23	2.10	0.51
19:UQ:252:LEU:HD11	61:D2:81:A:H2'	1.91	0.51
20:UR:454:GLY:O	20:UR:486:SER:HB2	2.10	0.51
22:UT:214:SER:O	22:UT:217:GLU:HG3	2.11	0.51
22:UT:992:LYS:NZ	22:UT:996:ARG:HE	2.09	0.51
22:UT:1199:LEU:HD23	22:UT:1242:LYS:HZ2	1.75	0.51
22:UT:1504:GLY:O	22:UT:1508:GLN:HG2	2.10	0.51
22:UT:2175:GLU:HG2	22:UT:2176:HIS:N	2.22	0.51
22:UT:2425:ASP:O	22:UT:2429:ILE:HG12	2.11	0.51
24:UV:1205:LYS:HA	35:CN:36:PHE:HD2	1.76	0.51
28:CG:85:VAL:CG2	29:CH:552:TRP:HB3	2.40	0.51
31:CJ:126:ASN:HB3	54:DQ:123:ARG:HH11	1.75	0.51
31:CJ:139:LEU:HD23	31:CJ:266:LEU:HD21	1.92	0.51
33:CL:195:TRP:HB3	33:CL:200:GLN:HG2	1.93	0.51
35:CN:170:ASN:O	35:CN:173:LYS:HB2	2.10	0.51
36:JD:600:PHE:HB2	36:JD:609:LYS:HE2	1.92	0.51
37:JF:236:VAL:HG21	37:JG:103:PRO:HD3	1.92	0.51
40:JL:251:LEU:HD21	40:JL:317:PHE:CD1	2.46	0.51
56:DT:64:HIS:NE2	62:D3:1480:G:OP1	2.44	0.51
61:D2:288:G:H2'	61:D2:289:U:C6	2.46	0.51
3:UA:806:SER:O	3:UA:806:SER:OG	2.27	0.51
6:UD:566:LEU:HD23	6:UD:586:THR:HG21	1.93	0.51
7:UE:299:ASP:H	7:UE:319:TRP:HZ2	1.57	0.51
14:UL:201:ILE:HG22	15:UM:660:LYS:HD3	1.93	0.51
14:UL:332:ILE:HD11	14:UL:367:ILE:HD11	1.93	0.51
17:UO:33:ALA:HB2	17:UO:330:ARG:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:UQ:175:ALA:HB3	19:UQ:188:ALA:HB3	1.92	0.51
22:UT:12:LYS:HZ3	62:D3:60:U:C5'	2.24	0.51
22:UT:114:CYS:O	22:UT:117:LEU:C	2.54	0.51
22:UT:125:TYR:CZ	22:UT:166:LEU:HD11	2.46	0.51
22:UT:280:MET:HG2	22:UT:733:VAL:HG21	1.93	0.51
24:UV:1202:CYS:SG	24:UV:1203:ASN:N	2.84	0.51
27:CE:194:GLU:OE2	27:CE:242:SER:HA	2.10	0.51
30:CI:36:TYR:HD2	30:CI:107:CYS:SG	2.33	0.51
33:CL:82:LYS:HB3	77:CL:2001:GTP:O1B	2.11	0.51
33:CL:1112:PHE:CD1	41:JM:178:MET:HE1	2.46	0.51
36:JD:734:LEU:HD13	36:JD:741:LYS:HG2	1.93	0.51
36:JD:1116:PRO:HG2	36:JD:1135:ILE:HG22	1.93	0.51
41:JM:172:THR:HB	41:JM:175:GLU:OE1	2.10	0.51
44:JJ:129:ARG:NH2	44:JJ:131:ASN:HD21	2.07	0.51
49:DI:189:LEU:O	49:DI:193:LEU:HG	2.11	0.51
61:D2:476:A:H2'	61:D2:477:G:H8	1.76	0.51
2:DA:241:GLY:H	24:UV:656:ARG:HD3	1.75	0.51
3:UA:585:TYR:HE1	3:UA:592:ILE:HD11	1.75	0.51
7:UE:248:THR:O	7:UE:251:GLY:N	2.37	0.51
8:UF:297:ASP:N	8:UF:297:ASP:OD1	2.43	0.51
12:UJ:313:ASP:O	12:UJ:350:SER:OG	2.24	0.51
14:UL:143:SER:C	14:UL:166:ILE:HD11	2.36	0.51
14:UL:175:ASP:HB3	14:UL:176:TRP:CE3	2.46	0.51
17:UO:329:ILE:HG13	17:UO:329:ILE:O	2.11	0.51
19:UQ:158:LYS:NZ	19:UQ:168:LEU:O	2.38	0.51
19:UQ:401:GLN:HB2	19:UQ:412:ASN:ND2	2.25	0.51
19:UQ:599:ILE:HD11	19:UQ:601:LEU:HD12	1.92	0.51
20:UR:216:TYR:OH	23:UU:274:ILE:HG12	2.10	0.51
22:UT:94:PHE:O	22:UT:97:PHE:HB2	2.10	0.51
22:UT:2310:GLU:HA	22:UT:2312:ARG:HH12	1.76	0.51
23:UU:120:HIS:NE2	23:UU:168:VAL:O	2.43	0.51
24:UV:141:TRP:NE1	24:UV:144:LYS:HG3	2.25	0.51
28:CG:54:MET:HB3	28:CG:64:LEU:HD12	1.93	0.51
29:CH:449:ASN:HA	29:CH:460:ARG:HD3	1.92	0.51
31:CJ:245:VAL:HG21	32:CK:373:ILE:HD11	1.93	0.51
36:JD:840:PRO:HG2	36:JD:843:LEU:HG	1.92	0.51
36:JD:867:PHE:HD1	36:JD:870:PRO:HB3	1.75	0.51
40:JL:131:TYR:O	40:JL:134:SER:N	2.44	0.51
47:DG:14:LYS:HD2	47:DG:123:GLY:HA3	1.92	0.51
62:D3:1578:U:H2'	62:D3:1579:U:C6	2.46	0.51
75:EN:93:VAL:N	75:EN:113:VAL:O	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:EN:646:TYR:O	75:EN:650:GLU:N	2.40	0.51
2:DA:87:ARG:C	2:DA:98:THR:HG23	2.35	0.51
2:DA:127:VAL:HG21	2:DA:176:VAL:CG2	2.40	0.51
3:UA:524:ARG:HA	3:UA:585:TYR:HD2	1.75	0.51
3:UA:766:VAL:O	3:UA:770:ILE:HG13	2.10	0.51
1:CB:248:ASP:HB2	1:CB:251:ARG:HB2	1.91	0.51
4:UB:550:VAL:HA	4:UB:553:TYR:HB2	1.92	0.51
4:UB:648:SER:HA	4:UB:652:LYS:HE3	1.93	0.51
7:UE:444:ALA:O	7:UE:448:ASN:HA	2.11	0.51
12:UJ:193:THR:OG1	12:UJ:241:ILE:HD11	2.11	0.51
12:UJ:357:ARG:O	12:UJ:360:ARG:NH2	2.43	0.51
14:UL:897:ASP:OD1	15:UM:761:ARG:NH2	2.35	0.51
17:UO:231:GLY:O	17:UO:255:VAL:HG22	2.11	0.51
19:UQ:90:LYS:NZ	19:UQ:91:ILE:O	2.43	0.51
19:UQ:97:THR:HG22	19:UQ:178:PHE:HE2	1.76	0.51
19:UQ:360:MET:HE3	19:UQ:362:GLU:HB2	1.93	0.51
19:UQ:506:TRP:CD1	19:UQ:533:THR:HG1	2.28	0.51
20:UR:144:LYS:HE2	20:UR:147:ARG:HH21	1.75	0.51
21:US:334:TYR:HB3	21:US:337:PHE:HD1	1.76	0.51
21:US:350:MET:SD	21:US:394:ALA:HB1	2.51	0.51
22:UT:1428:THR:HG23	22:UT:1429:LYS:H	1.75	0.51
22:UT:1604:GLU:OE1	22:UT:1604:GLU:N	2.44	0.51
22:UT:2065:VAL:HG12	22:UT:2069:GLN:NE2	2.26	0.51
22:UT:2475:LYS:HA	22:UT:2478:LYS:HD2	1.92	0.51
23:UU:346:ARG:NH1	23:UU:384:ALA:O	2.43	0.51
24:UV:100:SER:OG	24:UV:104:LYS:HE2	2.11	0.51
24:UV:236:THR:HG21	24:UV:256:TYR:CE1	2.46	0.51
24:UV:392:GLU:OE1	24:UV:392:GLU:N	2.34	0.51
24:UV:1158:LYS:O	24:UV:1187:LYS:HE3	2.11	0.51
27:CE:407:ARG:HA	27:CE:407:ARG:HH11	1.76	0.51
28:CF:54:MET:HB3	28:CF:64:LEU:HD12	1.93	0.51
33:CL:618:PHE:CD1	34:CM:274:LYS:HG3	2.46	0.51
33:CL:831:ARG:HD3	33:CL:838:ILE:HG22	1.92	0.51
36:JD:408:ASP:OD1	36:JD:408:ASP:N	2.42	0.51
36:JD:862:ILE:H	36:JD:862:ILE:HD12	1.76	0.51
48:DH:76:LYS:O	48:DH:79:ARG:N	2.44	0.51
49:DI:42:ARG:NH1	49:DI:59:ARG:HE	2.08	0.51
55:DS:42:TYR:HA	55:DS:85:PHE:HZ	1.76	0.51
62:D3:734:A:H2'	62:D3:735:C:H5'	1.92	0.51
63:D4:6:C:H2'	63:D4:7:G:H8	1.76	0.51
75:EN:699:ALA:O	75:EN:718:ILE:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:127:GLU:O	1:CA:137:THR:N	2.41	0.51
2:DA:35:PRO:HG3	2:DA:99:ASN:HA	1.92	0.51
3:UA:70:LEU:HB2	3:UA:84:PHE:CE2	2.46	0.51
1:CB:272:LYS:HE2	1:CB:275:CYS:SG	2.51	0.51
4:UB:426:THR:HG22	4:UB:462:LEU:HD22	1.93	0.51
6:UD:226:LEU:HD23	6:UD:226:LEU:H	1.76	0.51
7:UE:126:PHE:HZ	7:UE:165:VAL:HG11	1.76	0.51
7:UE:230:SER:OG	7:UE:231:ASP:N	2.44	0.51
9:UG:222:GLY:HA3	30:CI:18:PHE:CD1	2.45	0.51
12:UJ:670:LEU:O	12:UJ:674:LEU:HG	2.11	0.51
12:UJ:1420:LEU:HG	12:UJ:1456:VAL:HG22	1.93	0.51
13:UK:16:ARG:HD3	62:D3:575:C:N4	2.25	0.51
13:UK:140:ARG:HA	13:UK:143:MET:HE3	1.93	0.51
14:UL:21:ALA:HB3	14:UL:44:SER:HB3	1.93	0.51
14:UL:137:ILE:HG21	14:UL:169:PHE:HZ	1.76	0.51
15:UM:388:GLU:N	15:UM:388:GLU:OE1	2.44	0.51
15:UM:421:SER:O	15:UM:423:LYS:N	2.43	0.51
20:UR:129:ASP:OD1	20:UR:129:ASP:N	2.42	0.51
21:US:452:ASP:O	21:US:456:THR:HG23	2.10	0.51
22:UT:88:PHE:HZ	22:UT:128:ALA:HB2	1.75	0.51
22:UT:178:ILE:HG22	22:UT:179:PRO:HD3	1.93	0.51
23:UU:900:ASN:OD1	23:UU:901:LYS:N	2.44	0.51
27:CE:233:GLU:O	27:CE:236:LYS:HB2	2.11	0.51
29:CH:459:LEU:O	29:CH:463:GLN:HG2	2.10	0.51
29:CH:535:GLU:H	29:CH:570:GLN:HE21	1.59	0.51
33:CL:8:HIS:HB3	62:D3:1792:G:N7	2.26	0.51
35:CN:94:GLY:HA2	35:CN:97:GLU:OE1	2.11	0.51
36:JD:1064:ASN:OD1	36:JD:1065:GLU:N	2.43	0.51
37:JF:30:VAL:HG22	37:JF:127:THR:HG21	1.93	0.51
40:JL:273:MET:HA	40:JL:276:VAL:HG12	1.93	0.51
42:JP:281:ASN:OD1	42:JP:282:GLU:N	2.44	0.51
44:JJ:98:LYS:HG2	44:JJ:138:GLU:CG	2.41	0.51
62:D3:418:G:H3'	62:D3:418:G:N3	2.25	0.51
62:D3:869:A:H61	62:D3:958:U:H3	1.58	0.51
74:EK:618:TYR:N	74:EK:648:SER:O	2.41	0.51
3:UA:4:ASP:O	3:UA:706:THR:HG22	2.11	0.50
3:UA:43:ILE:HG23	3:UA:44:ASN:OD1	2.12	0.50
4:UB:678:PHE:HB3	4:UB:681:PRO:HG2	1.93	0.50
7:UE:284:LYS:HG2	7:UE:331:SER:HA	1.93	0.50
7:UE:350:LEU:HD11	19:UQ:60:ARG:NE	2.26	0.50
10:UH:587:LEU:HB2	19:UQ:605:ASN:HD22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UK:48:LEU:HB3	13:UK:52:ARG:HH21	1.76	0.50
14:UL:217:LEU:HD21	14:UL:229:TRP:HB2	1.92	0.50
14:UL:580:ASP:OD1	14:UL:581:ILE:N	2.44	0.50
15:UM:698:LEU:HD13	15:UM:759:THR:HG21	1.93	0.50
17:UO:127:THR:HA	17:UO:144:SER:HA	1.92	0.50
19:UQ:116:VAL:HB	19:UQ:132:PHE:HB2	1.93	0.50
20:UR:363:LEU:HD13	20:UR:374:ILE:HG21	1.93	0.50
21:US:342:TYR:O	21:US:382:LYS:NZ	2.43	0.50
21:US:504:ASP:OD1	21:US:505:SER:N	2.44	0.50
22:UT:606:THR:O	22:UT:610:LEU:HD23	2.11	0.50
22:UT:980:ASN:HB3	22:UT:983:GLN:OE1	2.11	0.50
33:CL:769:TYR:HB3	33:CL:777:ARG:NH2	2.26	0.50
36:JD:366:ASN:ND2	36:JD:440:ASP:OD1	2.45	0.50
37:JF:178:VAL:HA	37:JF:223:GLU:O	2.11	0.50
45:DE:100:ARG:HG3	45:DE:102:VAL:HG13	1.92	0.50
45:DE:182:TYR:CD1	45:DE:192:ILE:HG12	2.46	0.50
47:DG:118:GLU:N	47:DG:118:GLU:OE2	2.43	0.50
55:DS:105:VAL:HG22	55:DS:108:LYS:NZ	2.26	0.50
62:D3:398:G:H8	62:D3:398:G:O5’	1.93	0.50
62:D3:1002:G:N7	62:D3:1003:A:C6	2.79	0.50
62:D3:1096:C:H6	62:D3:1096:C:H5’	1.74	0.50
62:D3:1131:A:N1	62:D3:1132:A:N6	2.60	0.50
62:D3:1615:C:H5”	62:D3:1616:G:O4’	2.10	0.50
62:D3:1730:A:O3’	62:D3:1731:A:H8	1.95	0.50
74:EK:368:LYS:O	74:EK:372:LEU:N	2.37	0.50
1:CA:170:VAL:HG22	1:CA:239:CYS:SG	2.50	0.50
2:DA:86:LEU:HB3	2:DA:98:THR:CG2	2.42	0.50
3:UA:493:TRP:CH2	30:CI:140:PRO:HD3	2.47	0.50
3:UA:599:ASN:OD1	3:UA:617:VAL:HG12	2.11	0.50
6:UD:113:ARG:NH1	6:UD:173:GLY:O	2.44	0.50
9:UG:160:LEU:HD12	9:UG:161:GLN:H	1.76	0.50
12:UJ:1492:SER:OG	12:UJ:1493:ALA:N	2.43	0.50
12:UJ:1652:VAL:HG11	12:UJ:1690:LEU:HB3	1.92	0.50
15:UM:287:GLU:OE1	15:UM:287:GLU:N	2.40	0.50
15:UM:402:TRP:HZ3	15:UM:416:ARG:HB2	1.76	0.50
15:UM:452:GLU:OE1	15:UM:452:GLU:N	2.35	0.50
15:UM:702:LEU:HD21	15:UM:758:ARG:HG3	1.93	0.50
16:UN:890:VAL:HG13	42:JP:358:MET:HB3	1.92	0.50
19:UQ:695:TYR:O	19:UQ:699:ASN:HB2	2.11	0.50
20:UR:248:HIS:HB2	20:UR:269:ASP:OD1	2.11	0.50
20:UR:420:ARG:HB2	20:UR:438:ASN:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UR:490:PHE:CD2	28:CF:89:ARG:HD3	2.46	0.50
22:UT:535:ASN:O	22:UT:538:LEU:HB2	2.11	0.50
22:UT:1284:LEU:HD23	22:UT:1284:LEU:C	2.36	0.50
22:UT:1907:ASN:HB3	22:UT:1910:VAL:HG12	1.93	0.50
24:UV:523:TYR:CD2	24:UV:616:LYS:HG2	2.44	0.50
24:UV:976:ILE:HD13	24:UV:1017:TYR:CD1	2.45	0.50
35:CN:263:ARG:O	35:CN:267:LYS:HG2	2.11	0.50
36:JD:771:PRO:O	36:JD:816:THR:OG1	2.26	0.50
37:JG:112:VAL:CG1	37:JG:124:VAL:HG13	2.39	0.50
42:JP:262:MET:SD	42:JP:283:ASP:HB3	2.51	0.50
43:Db:38:PRO:HD3	43:Db:77:THR:HG22	1.93	0.50
46:DF:76:ARG:HG2	54:DQ:122:ARG:NH2	2.26	0.50
62:D3:923:A:H2'	62:D3:924:A:C8	2.46	0.50
3:UA:15:TYR:CD1	3:UA:20:ILE:HD11	2.46	0.50
3:UA:288:ASP:HB3	3:UA:293:THR:HG22	1.91	0.50
3:UA:356:ASP:OD2	3:UA:830:ARG:NH2	2.42	0.50
4:UB:510:THR:HB	4:UB:556:ILE:HG21	1.94	0.50
6:UD:565:ARG:HE	12:UJ:635:TYR:N	2.09	0.50
6:UD:773:LYS:NZ	61:D2:84:G:O6	2.30	0.50
7:UE:145:CYS:HB3	7:UE:148:LEU:HD11	1.92	0.50
7:UE:547:LEU:O	7:UE:551:ILE:HG13	2.10	0.50
7:UE:551:ILE:O	7:UE:555:LYS:HG2	2.11	0.50
8:UF:364:MET:HA	8:UF:367:ILE:HG22	1.94	0.50
12:UJ:241:ILE:HA	12:UJ:244:LYS:NZ	2.26	0.50
14:UL:183:ASP:O	14:UL:185:MET:N	2.43	0.50
15:UM:96:VAL:HG12	15:UM:97:ARG:HG3	1.92	0.50
15:UM:461:LEU:HD11	15:UM:490:HIS:H	1.76	0.50
17:UO:122:ALA:HB2	17:UO:152:TRP:CH2	2.42	0.50
17:UO:151:LEU:HD23	17:UO:162:LEU:HD13	1.93	0.50
19:UQ:406:MET:HE1	19:UQ:485:ARG:HB2	1.94	0.50
21:US:250:GLU:O	21:US:254:LYS:HG2	2.10	0.50
22:UT:593:ASP:OD2	22:UT:595:LYS:HB2	2.11	0.50
22:UT:793:PHE:O	22:UT:793:PHE:CD1	2.64	0.50
22:UT:2345:ARG:HH22	22:UT:2385:LEU:HG	1.76	0.50
23:UU:355:TYR:HA	23:UU:631:ASN:ND2	2.26	0.50
24:UV:915:LEU:HD13	24:UV:954:LEU:HD21	1.93	0.50
24:UV:1169:ILE:H	24:UV:1169:ILE:HD12	1.77	0.50
32:CK:297:LEU:HB2	32:CK:302:LYS:NZ	2.25	0.50
34:CM:18:ARG:HD3	34:CM:98:TYR:CE1	2.46	0.50
35:CN:222:SER:O	35:CN:225:SER:OG	2.25	0.50
36:JD:1033:LYS:HG2	36:JD:1037:GLU:OE2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:JD:1154:TYR:CG	36:JD:1167:MET:HG2	2.46	0.50
40:JL:54:ILE:HD11	40:JL:58:ASP:HB2	1.94	0.50
44:JJ:236:GLY:O	44:JJ:240:ILE:HG23	2.11	0.50
46:DF:46:TRP:HH2	46:DF:122:ASN:HD22	1.59	0.50
62:D3:898:A:N1	62:D3:911:U:O2'	2.43	0.50
62:D3:1649:G:H2'	62:D3:1650:U:H6	1.75	0.50
62:D3:1661:U:H2'	62:D3:1662:G:C8	2.46	0.50
63:D4:143:G:O2'	63:D4:144:G:OP1	2.27	0.50
63:D4:168:C:H2'	63:D4:169:A:H8	1.76	0.50
2:DA:154:SER:OG	2:DA:154:SER:O	2.27	0.50
3:UA:269:HIS:HE1	3:UA:271:ALA:HB3	1.75	0.50
4:UB:55:PHE:O	4:UB:57:PRO:HD3	2.12	0.50
6:UD:117:ILE:HD11	6:UD:147:ILE:HD12	1.93	0.50
7:UE:203:ILE:CD1	7:UE:214:VAL:HG22	2.41	0.50
8:UF:73:ARG:O	8:UF:76:GLN:NE2	2.44	0.50
8:UF:107:LEU:HD11	8:UF:146:ILE:HD11	1.93	0.50
10:UH:561:LEU:HD22	10:UH:566:LEU:HD11	1.92	0.50
10:UH:571:PHE:HD2	10:UH:606:ASP:HB3	1.77	0.50
12:UJ:316:PRO:HD2	12:UJ:319:ILE:HD12	1.93	0.50
12:UJ:561:PHE:CE2	12:UJ:619:SER:HB2	2.47	0.50
14:UL:230:LYS:HB3	14:UL:245:MET:HE2	1.92	0.50
15:UM:420:ASN:OD1	15:UM:423:LYS:HE3	2.12	0.50
17:UO:61:THR:H	17:UO:83:VAL:HA	1.76	0.50
17:UO:177:ILE:HG21	17:UO:183:LEU:HB3	1.94	0.50
21:US:181:THR:HA	21:US:185:TYR:HB3	1.92	0.50
22:UT:2166:LYS:O	22:UT:2169:LEU:HG	2.10	0.50
24:UV:299:PRO:HD2	24:UV:302:VAL:HG11	1.93	0.50
24:UV:828:ASP:OD1	24:UV:830:SER:N	2.30	0.50
25:UX:152:ILE:CG2	25:UX:171:PRO:HG2	2.39	0.50
29:CH:366:GLN:HE22	29:CH:367:LYS:HE3	1.76	0.50
29:CH:452:SER:HB3	29:CH:460:ARG:HG2	1.94	0.50
32:CK:362:THR:O	32:CK:366:GLU:HG3	2.12	0.50
33:CL:204:LEU:HD23	33:CL:204:LEU:H	1.76	0.50
33:CL:293:VAL:HA	33:CL:1022:LEU:HD13	1.93	0.50
33:CL:1117:LEU:HD21	41:JM:122:LEU:HD21	1.93	0.50
36:JD:1137:PRO:HA	36:JD:1142:ASN:CG	2.37	0.50
37:JG:189:VAL:HG21	37:JG:241:PHE:HA	1.92	0.50
40:JL:310:PHE:HA	40:JL:313:VAL:HG12	1.94	0.50
62:D3:1690:G:N2	62:D3:1711:C:O2	2.44	0.50
63:D4:52:U:H2'	63:D4:53:U:C6	2.46	0.50
63:D4:329:C:H2'	63:D4:330:A:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:ED:377:SER:O	67:ED:381:SER:N	2.45	0.50
3:UA:200:SER:OG	3:UA:201:HIS:N	2.45	0.50
1:CB:271:ILE:HB	1:CB:314:CYS:SG	2.51	0.50
12:UJ:19:ALA:CB	12:UJ:25:ARG:HG3	2.42	0.50
12:UJ:33:LEU:O	12:UJ:150:ARG:NE	2.43	0.50
12:UJ:367:LEU:HD13	12:UJ:403:LEU:HD23	1.93	0.50
13:UK:186:PRO:HG2	13:UK:187:LYS:HE2	1.94	0.50
15:UM:259:TYR:CD1	15:UM:267:PHE:HE1	2.30	0.50
15:UM:584:ILE:HG23	15:UM:586:LYS:N	2.26	0.50
19:UQ:502:LYS:HB3	19:UQ:565:ARG:HH11	1.77	0.50
19:UQ:632:ILE:N	19:UQ:651:SER:OG	2.34	0.50
20:UR:231:LYS:O	20:UR:232:LYS:HD3	2.12	0.50
22:UT:1008:LEU:HD22	22:UT:1015:PHE:CZ	2.46	0.50
22:UT:1228:LEU:HD22	22:UT:1271:LEU:HD21	1.93	0.50
22:UT:1986:VAL:O	22:UT:1990:LEU:N	2.40	0.50
24:UV:197:GLN:HB3	24:UV:199:ASN:OD1	2.11	0.50
24:UV:1135:ASN:ND2	24:UV:1137:ASN:HB2	2.27	0.50
24:UV:1154:ASN:HB3	24:UV:1158:LYS:NZ	2.26	0.50
27:CE:286:ASN:HB3	27:CE:370:SER:OG	2.11	0.50
28:CF:46:ARG:NH1	63:D4:326:U:OP1	2.40	0.50
29:CH:62:LYS:HG2	29:CH:65:ARG:NH2	2.26	0.50
29:CH:425:TRP:CH2	29:CH:432:PRO:HG3	2.46	0.50
31:CJ:146:ARG:NH1	62:D3:1175:U:H1'	2.27	0.50
33:CL:787:SER:O	33:CL:789:VAL:HG13	2.11	0.50
33:CL:861:THR:O	33:CL:882:ASN:HB2	2.11	0.50
35:CN:131:ALA:HA	35:CN:134:ILE:HG22	1.93	0.50
36:JD:538:LEU:HD12	36:JD:539:ARG:N	2.26	0.50
36:JD:623:LEU:HD23	36:JD:773:VAL:HG23	1.94	0.50
36:JD:623:LEU:HB2	36:JD:776:VAL:HG12	1.93	0.50
37:JF:96:LEU:HA	37:JF:99:LEU:HD12	1.94	0.50
44:JJ:250:LEU:HG	44:JJ:259:VAL:HG21	1.94	0.50
59:DY:41:ARG:HD2	59:DY:94:TYR:CE1	2.46	0.50
62:D3:997:G:O2'	62:D3:998:A:OP1	2.25	0.50
62:D3:1673:G:H2'	62:D3:1674:C:H6	1.77	0.50
6:UD:128:LEU:HB2	6:UD:526:PRO:HG2	1.94	0.50
7:UE:461:ASP:O	7:UE:465:ILE:HG12	2.12	0.50
8:UF:120:ARG:NH2	8:UF:124:THR:HG22	2.27	0.50
9:UG:104:LEU:HD11	9:UG:139:TRP:CD1	2.47	0.50
9:UG:271:LEU:HB3	16:UN:828:ASN:HB3	1.93	0.50
12:UJ:1655:LEU:HD21	12:UJ:1707:ALA:HB2	1.94	0.50
14:UL:152:GLY:O	14:UL:154:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UL:386:GLU:O	14:UL:388:GLN:N	2.45	0.50
19:UQ:133:LYS:H	19:UQ:183:LYS:NZ	2.09	0.50
20:UR:357:ASN:HB2	20:UR:378:GLN:OE1	2.11	0.50
20:UR:382:GLY:C	20:UR:404:ILE:HD11	2.36	0.50
22:UT:247:LEU:HD11	22:UT:294:VAL:HG21	1.94	0.50
22:UT:480:TYR:CE1	22:UT:521:THR:HG21	2.46	0.50
22:UT:864:ASP:OD1	22:UT:865:VAL:N	2.45	0.50
22:UT:1941:VAL:HA	22:UT:1944:ILE:HG12	1.93	0.50
22:UT:1964:SER:HB2	22:UT:2002:PHE:HD1	1.76	0.50
24:UV:105:LEU:HA	24:UV:108:ASP:OD2	2.11	0.50
24:UV:1165:SER:OG	24:UV:1166:ARG:N	2.44	0.50
27:CE:98:ILE:HA	27:CE:101:LEU:HD23	1.93	0.50
27:CE:339:TYR:HB3	27:CE:343:TYR:HB2	1.94	0.50
35:CN:78:TYR:CG	35:CN:143:LYS:HE3	2.47	0.50
36:JD:381:SER:OG	36:JD:385:GLN:OE1	2.28	0.50
36:JD:1207:THR:HA	36:JD:1240:LYS:HB3	1.93	0.50
37:JF:174:LYS:HE3	37:JF:200:GLU:HB2	1.94	0.50
40:JL:59:VAL:HA	40:JL:80:ASN:O	2.12	0.50
42:JP:59:VAL:HG13	42:JP:374:LEU:HD12	1.93	0.50
47:DG:45:PHE:HA	47:DG:48:TYR:HD2	1.76	0.50
55:DS:14:ILE:HA	55:DS:23:ASP:HA	1.93	0.50
62:D3:1733:C:H2'	62:D3:1734:U:C6	2.47	0.50
62:D3:1775:U:H2'	62:D3:1776:A:H8	1.76	0.50
63:D4:5:A:C5	63:D4:6:C:C4	2.99	0.50
63:D4:181:G:N2	63:D4:183:A:H3'	2.27	0.50
66:EC:164:GLY:HA2	66:EC:184:THR:HA	1.93	0.50
68:EE:138:ILE:O	68:EE:158:LEU:N	2.36	0.50
73:EJ:270:THR:N	73:EJ:274:MET:O	2.45	0.50
75:EN:647:HIS:O	75:EN:651:GLN:N	2.31	0.50
75:EN:960:ALA:O	75:EN:964:LYS:N	2.38	0.50
3:UA:105:SER:O	3:UA:108:GLY:N	2.39	0.50
7:UE:174:ASP:HB3	7:UE:177:GLU:HB3	1.92	0.50
8:UF:183:TYR:CZ	8:UF:322:LEU:HD12	2.47	0.50
9:UG:502:ARG:NH2	62:D3:1079:U:OP1	2.43	0.50
12:UJ:158:PRO:HG2	12:UJ:161:PHE:CD1	2.46	0.50
12:UJ:230:LYS:HD3	12:UJ:233:GLN:HE21	1.76	0.50
12:UJ:561:PHE:HA	12:UJ:564:VAL:HG22	1.93	0.50
15:UM:50:ARG:NH2	15:UM:378:PRO:O	2.45	0.50
15:UM:129:VAL:HB	15:UM:136:ILE:HG22	1.94	0.50
19:UQ:375:ASN:OD1	19:UQ:382:LYS:HD2	2.12	0.50
20:UR:165:ARG:HD2	23:UU:236:ARG:HH22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:425:TRP:CE3	22:UT:457:PHE:HD1	2.30	0.50
22:UT:996:ARG:NH2	62:D3:132:U:O3'	2.44	0.50
22:UT:2233:ASP:O	22:UT:2237:THR:HG23	2.12	0.50
23:UU:885:MET:HA	23:UU:885:MET:HE3	1.94	0.50
24:UV:801:LYS:HD2	35:CN:187:HIS:CG	2.47	0.50
24:UV:1159:ASN:OD1	24:UV:1160:SER:N	2.44	0.50
26:CD:5:GLU:HG3	26:CD:96:ILE:HD12	1.94	0.50
29:CH:481:ILE:O	29:CH:484:SER:OG	2.19	0.50
31:CJ:146:ARG:HH12	62:D3:1175:U:H1'	1.76	0.50
33:CL:293:VAL:HG13	33:CL:1022:LEU:HD11	1.93	0.50
35:CN:40:LYS:HD2	35:CN:138:TRP:HH2	1.76	0.50
35:CN:138:TRP:CD1	35:CN:142:LYS:HD2	2.47	0.50
44:JJ:132:LEU:O	44:JJ:135:LYS:NZ	2.29	0.50
45:DE:19:LEU:HD11	45:DE:108:ARG:HD3	1.94	0.50
45:DE:183:VAL:HG13	45:DE:189:LEU:HA	1.93	0.50
51:DL:27:THR:O	51:DL:30:ARG:NH2	2.22	0.50
63:D4:98:U:H2'	63:D4:99:U:H6	1.77	0.50
73:EJ:67:GLU:O	73:EJ:107:LEU:N	2.45	0.50
1:CA:291:GLN:HE21	25:UX:129:SER:H	1.59	0.50
2:DA:136:ARG:NH1	62:D3:884:A:H5"	2.26	0.50
12:UJ:527:LEU:O	12:UJ:530:THR:OG1	2.23	0.50
12:UJ:1600:PRO:HA	12:UJ:1603:MET:HG2	1.91	0.50
12:UJ:1659:GLU:OE2	12:UJ:1660:ASN:N	2.45	0.50
14:UL:548:ILE:O	14:UL:555:VAL:HA	2.12	0.50
15:UM:342:ASP:OD2	15:UM:343:MET:N	2.45	0.50
15:UM:557:VAL:CG1	15:UM:571:LEU:HB2	2.42	0.50
17:UO:41:SER:HB2	17:UO:303:LEU:HD12	1.92	0.50
19:UQ:443:ASN:HD21	19:UQ:541:TRP:HZ2	1.59	0.50
19:UQ:574:LEU:HD21	19:UQ:615:TRP:HZ3	1.76	0.50
20:UR:410:ASP:OD1	20:UR:411:TYR:N	2.44	0.50
22:UT:448:VAL:O	22:UT:451:VAL:HG12	2.12	0.50
22:UT:566:HIS:CG	22:UT:567:PRO:HD2	2.46	0.50
22:UT:2427:THR:HA	22:UT:2430:TYR:CD1	2.47	0.50
24:UV:331:LEU:HD11	24:UV:556:ILE:HG12	1.93	0.50
24:UV:709:PRO:HB3	24:UV:1114:ILE:HD12	1.93	0.50
32:CK:297:LEU:HB2	32:CK:302:LYS:HZ1	1.76	0.50
33:CL:613:PRO:HG2	33:CL:615:PHE:CE1	2.46	0.50
33:CL:858:PRO:HA	33:CL:885:PHE:HB3	1.94	0.50
35:CN:82:SER:OG	35:CN:133:SER:O	2.23	0.50
36:JD:736:SER:HA	36:JD:741:LYS:HE3	1.94	0.50
49:DI:81:VAL:HA	49:DI:102:VAL:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DJ:11:THR:OG1	62:D3:472:U:H5"	2.12	0.50
58:DX:74:VAL:HG21	58:DX:104:LEU:HD11	1.93	0.50
62:D3:234:G:N1	62:D3:235:G:N7	2.59	0.50
68:EE:168:VAL:O	68:EE:172:LYS:N	2.45	0.50
69:EF:37:PHE:O	69:EF:49:ARG:N	2.45	0.50
4:UB:433:ILE:HD13	4:UB:459:LEU:HD11	1.94	0.50
6:UD:417:VAL:O	6:UD:459:LYS:NZ	2.45	0.50
7:UE:126:PHE:CZ	7:UE:165:VAL:HG11	2.47	0.50
7:UE:229:GLU:N	7:UE:254:GLU:OE1	2.45	0.50
7:UE:241:ALA:O	7:UE:259:PRO:HD2	2.11	0.50
12:UJ:48:ILE:HG22	12:UJ:120:TRP:HE3	1.77	0.50
12:UJ:377:ARG:HB3	12:UJ:377:ARG:NH1	2.27	0.50
12:UJ:600:LEU:HB3	12:UJ:604:LEU:HB2	1.94	0.50
14:UL:230:LYS:HB3	14:UL:245:MET:CE	2.41	0.50
19:UQ:745:ILE:O	19:UQ:754:LEU:N	2.45	0.50
20:UR:245:HIS:CD2	20:UR:246:PRO:HD2	2.47	0.50
22:UT:209:ARG:HB3	22:UT:213:ARG:NH2	2.27	0.50
22:UT:212:VAL:HA	22:UT:215:VAL:HG12	1.94	0.50
22:UT:1501:ARG:N	22:UT:1501:ARG:HD2	2.27	0.50
22:UT:2427:THR:O	22:UT:2431:THR:HG23	2.12	0.50
23:UU:64:ASN:HA	27:CE:421:MET:CE	2.42	0.50
23:UU:580:GLN:HG2	23:UU:582:TRP:NE1	2.27	0.50
23:UU:632:VAL:HG23	23:UU:643:THR:HG22	1.93	0.50
23:UU:816:HIS:NE2	23:UU:820:GLN:OE1	2.45	0.50
24:UV:146:LEU:HB2	24:UV:172:THR:HG21	1.93	0.50
24:UV:202:SER:HB2	24:UV:291:SER:HB3	1.93	0.50
24:UV:761:ARG:HD2	24:UV:899:LEU:HD23	1.93	0.50
24:UV:801:LYS:HB3	35:CN:184:ILE:HD12	1.94	0.50
27:CE:86:THR:HA	27:CE:106:ASN:O	2.12	0.50
33:CL:554:TYR:CE1	34:CM:330:LYS:HD2	2.47	0.50
33:CL:929:VAL:CG1	33:CL:1006:TRP:HB3	2.42	0.50
41:JM:63:PRO:C	41:JM:64:LYS:HD2	2.37	0.50
41:JM:172:THR:HG22	41:JM:174:LEU:H	1.76	0.50
50:DJ:79:ARG:O	50:DJ:83:VAL:HG23	2.12	0.50
52:DN:35:GLU:HA	52:DN:38:VAL:HG22	1.94	0.50
53:DO:71:CYS:SG	53:DO:76:ILE:HB	2.52	0.50
72:EI:176:LEU:HA	72:EI:182:ALA:HA	1.94	0.50
75:EN:123:VAL:HA	75:EN:315:HIS:HA	1.93	0.50
2:DA:77:GLU:O	2:DA:80:SER:OG	2.26	0.49
3:UA:9:ASN:OD1	3:UA:10:LEU:N	2.45	0.49
3:UA:48:PHE:CZ	3:UA:87:ARG:HG2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:301:LEU:CD1	1:CB:319:ARG:HG3	2.42	0.49
4:UB:52:ARG:NH1	32:CK:370:ARG:HH22	2.09	0.49
6:UD:532:ASN:O	6:UD:533:HIS:ND1	2.44	0.49
9:UG:546:ILE:HG21	24:UV:809:LYS:HD3	1.94	0.49
15:UM:558:LYS:NZ	15:UM:570:THR:OG1	2.45	0.49
16:UN:875:HIS:O	16:UN:879:ILE:HG12	2.11	0.49
17:UO:259:ASP:O	17:UO:272:LEU:HD12	2.13	0.49
22:UT:12:LYS:HZ3	62:D3:60:U:H5”	1.76	0.49
22:UT:637:ASP:OD1	22:UT:641:ARG:HD2	2.11	0.49
22:UT:950:ILE:HD11	22:UT:1003:ILE:HD11	1.93	0.49
22:UT:955:ASN:HB3	49:DI:111:GLN:HE22	1.77	0.49
22:UT:1431:PHE:C	22:UT:1435:GLU:HG2	2.35	0.49
24:UV:741:ILE:HA	24:UV:744:MET:HE3	1.94	0.49
31:CJ:182:GLN:HB3	62:D3:1159:C:H42	1.77	0.49
33:CL:107:VAL:HG12	33:CL:354:ILE:HG22	1.93	0.49
33:CL:769:TYR:HB3	33:CL:777:ARG:NH1	2.27	0.49
36:JD:409:VAL:HA	36:JD:555:LEU:O	2.12	0.49
37:JF:249:TRP:HE3	37:JF:251:ILE:HD11	1.77	0.49
37:JG:227:LEU:HD21	37:JG:240:LYS:HB3	1.93	0.49
42:JP:326:ASP:OD1	42:JP:327:LYS:N	2.45	0.49
48:DH:31:SER:HB2	48:DH:34:LEU:HB2	1.94	0.49
53:DO:118:VAL:O	53:DO:118:VAL:HG13	2.12	0.49
55:DS:39:GLY:N	62:D3:1566:U:H5”	2.27	0.49
55:DS:101:LEU:HA	55:DS:104:ASN:ND2	2.28	0.49
56:DT:70:GLN:HA	56:DT:122:ARG:O	2.11	0.49
62:D3:1041:G:N2	62:D3:1078:C:O2	2.45	0.49
62:D3:1087:A:H2’	62:D3:1088:A:C8	2.46	0.49
6:UD:81:PRO:HA	6:UD:85:TRP:HA	1.93	0.49
12:UJ:747:GLN:HA	12:UJ:750:ASN:ND2	2.27	0.49
12:UJ:1586:LEU:HB2	12:UJ:1590:ILE:HD11	1.93	0.49
14:UL:284:PHE:HA	14:UL:329:PHE:H	1.77	0.49
14:UL:453:GLU:OE1	14:UL:469:GLU:HA	2.12	0.49
14:UL:484:ASP:OD1	14:UL:485:GLY:N	2.46	0.49
14:UL:659:GLU:OE1	14:UL:659:GLU:N	2.43	0.49
15:UM:531:ASN:HD21	15:UM:560:TRP:HH2	1.59	0.49
19:UQ:140:LYS:O	19:UQ:155:THR:OG1	2.20	0.49
20:UR:142:LYS:O	20:UR:145:LYS:HG2	2.12	0.49
22:UT:1299:GLU:OE1	22:UT:1299:GLU:N	2.46	0.49
22:UT:1663:ILE:HD11	22:UT:1701:MET:HA	1.93	0.49
22:UT:1916:ARG:O	22:UT:1919:ILE:HG12	2.11	0.49
24:UV:870:ALA:HB2	35:CN:103:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UV:1154:ASN:O	24:UV:1158:LYS:HB2	2.13	0.49
25:UX:4:ALA:N	30:CI:108:ARG:HE	2.09	0.49
26:CD:277:ARG:NH1	27:CE:264:GLU:HB3	2.26	0.49
27:CE:87:LEU:HB3	27:CE:107:VAL:HG12	1.93	0.49
29:CH:252:VAL:HG11	29:CH:295:LEU:HD22	1.94	0.49
31:CJ:172:MET:O	31:CJ:175:ASP:HB3	2.11	0.49
31:CJ:262:ARG:HG2	31:CJ:273:VAL:HG12	1.94	0.49
32:CK:428:GLU:O	32:CK:432:LYS:HG2	2.12	0.49
33:CL:866:ARG:NH2	58:DX:69:ARG:HH22	2.10	0.49
33:CL:929:VAL:HG13	33:CL:1006:TRP:HB3	1.94	0.49
36:JD:763:VAL:HG13	36:JD:764:ALA:H	1.76	0.49
36:JD:795:SER:OG	36:JD:797:GLU:OE1	2.29	0.49
36:JD:863:ILE:HG13	36:JD:876:LEU:HD11	1.94	0.49
36:JD:898:ASP:O	36:JD:902:MET:HG2	2.12	0.49
36:JD:1035:MET:HA	36:JD:1038:ILE:HD12	1.94	0.49
36:JD:1179:ALA:HA	36:JD:1188:LEU:HD11	1.94	0.49
41:JM:191:TYR:HA	41:JM:194:ILE:HG12	1.93	0.49
42:JP:51:GLU:HG2	42:JP:380:TRP:NE1	2.27	0.49
47:DG:77:LEU:HD12	47:DG:95:LYS:HB2	1.94	0.49
62:D3:21:U:N3	62:D3:603:U:O4	2.36	0.49
62:D3:978:A:H2'	62:D3:979:A:O4'	2.13	0.49
62:D3:1176:G:C6	62:D3:1177:C:C4	3.00	0.49
62:D3:1526:A:H2'	62:D3:1527:C:H5'	1.94	0.49
63:D4:38:U:H4'	63:D4:39:C:OP1	2.11	0.49
3:UA:210:SER:HB3	3:UA:214:ALA:H	1.78	0.49
4:UB:604:VAL:HG21	4:UB:633:VAL:HG21	1.94	0.49
6:UD:112:LEU:HD22	6:UD:524:LYS:HE2	1.94	0.49
6:UD:481:ILE:HG12	6:UD:536:VAL:HG21	1.93	0.49
7:UE:486:GLU:OE1	17:UO:18:GLN:NE2	2.44	0.49
10:UH:561:LEU:HB3	10:UH:566:LEU:HD11	1.95	0.49
15:UM:719:ILE:HG23	15:UM:758:ARG:HH21	1.77	0.49
19:UQ:629:LYS:HG3	19:UQ:631:GLN:HE21	1.77	0.49
22:UT:1321:PHE:O	22:UT:1324:ILE:HG22	2.12	0.49
22:UT:1905:SER:OG	22:UT:1906:GLU:N	2.45	0.49
22:UT:2155:ALA:HA	22:UT:2158:LEU:HD12	1.94	0.49
22:UT:2438:LEU:HB3	22:UT:2442:LYS:HZ3	1.77	0.49
23:UU:774:ARG:NH2	53:DO:52:ARG:HH11	2.09	0.49
32:CK:409:LEU:HA	32:CK:412:ILE:HG12	1.93	0.49
33:CL:615:PHE:CD2	34:CM:278:GLN:CD	2.90	0.49
40:JL:95:THR:HA	40:JL:98:VAL:HG12	1.94	0.49
40:JL:114:PHE:CE2	40:JL:137:LEU:HD11	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JL:277:VAL:O	40:JL:281:ILE:HG12	2.12	0.49
42:JP:1:MET:O	42:JP:3:ILE:HG23	2.12	0.49
42:JP:228:ASN:HB3	42:JP:269:TRP:CD2	2.47	0.49
42:JP:290:ASP:OD1	42:JP:291:MET:N	2.45	0.49
42:JP:304:HIS:CE1	42:JP:330:ARG:HG3	2.48	0.49
49:DI:84:HIS:HD2	49:DI:87:ASN:H	1.58	0.49
51:DL:132:SER:OG	51:DL:133:LYS:N	2.45	0.49
52:DN:15:ALA:O	62:D3:959:U:H5'	2.12	0.49
62:D3:231:U:N3	62:D3:233:C:C2	2.81	0.49
62:D3:794:U:O2	62:D3:794:U:H2'	2.12	0.49
74:EK:778:ILE:HA	74:EK:789:SER:CB	2.42	0.49
75:EN:87:GLN:N	75:EN:119:VAL:O	2.38	0.49
75:EN:1050:LEU:O	75:EN:1054:MET:N	2.45	0.49
3:UA:524:ARG:HA	3:UA:585:TYR:CD2	2.46	0.49
3:UA:810:ILE:HG23	3:UA:817:PHE:CD2	2.47	0.49
1:CB:227:PRO:O	1:CB:231:ARG:HB3	2.11	0.49
4:UB:651:TRP:HA	4:UB:654:LEU:HD23	1.93	0.49
6:UD:585:ILE:HD12	6:UD:636:ILE:HD11	1.94	0.49
7:UE:437:VAL:O	7:UE:437:VAL:HG12	2.11	0.49
8:UF:190:LEU:HD11	8:UF:323:PHE:CE1	2.48	0.49
12:UJ:490:ARG:HA	12:UJ:493:LYS:HG2	1.94	0.49
12:UJ:558:VAL:HG12	12:UJ:595:THR:HG21	1.95	0.49
15:UM:494:ILE:HG22	15:UM:510:SER:HG	1.77	0.49
15:UM:678:TRP:NE1	15:UM:704:GLU:OE2	2.45	0.49
17:UO:109:ASP:OD1	17:UO:112:ASN:HB3	2.12	0.49
17:UO:195:LEU:HB3	17:UO:207:TYR:O	2.12	0.49
22:UT:515:THR:O	22:UT:518:MET:HG3	2.13	0.49
22:UT:1284:LEU:HD21	22:UT:1288:PHE:HE2	1.77	0.49
22:UT:1482:SER:OG	22:UT:1483:HIS:N	2.45	0.49
23:UU:160:THR:HG23	23:UU:162:ILE:HG22	1.93	0.49
23:UU:285:HIS:ND1	23:UU:286:VAL:N	2.61	0.49
24:UV:517:ARG:HG2	24:UV:518:PHE:CZ	2.47	0.49
25:UX:96:PRO:HG2	25:UX:125:ILE:HD13	1.93	0.49
33:CL:158:ILE:HG13	33:CL:913:ILE:HD11	1.93	0.49
33:CL:1025:GLU:C	33:CL:1027:THR:H	2.20	0.49
35:CN:50:SER:O	35:CN:127:LYS:NZ	2.34	0.49
36:JD:787:TYR:CD2	36:JD:845:MET:HG2	2.47	0.49
37:JG:105:ASN:HA	37:JG:110:LEU:HD21	1.95	0.49
45:DE:148:ARG:NH1	47:DG:201:GLN:OE1	2.45	0.49
53:DO:45:GLY:O	53:DO:48:VAL:C	2.56	0.49
59:DY:12:VAL:HG22	59:DY:23:PHE:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:D3:1694:A:H2'	62:D3:1695:G:H8	1.77	0.49
68:EE:217:ILE:O	68:EE:221:LEU:N	2.45	0.49
75:EN:971:ALA:O	75:EN:975:LYS:N	2.39	0.49
2:DA:50:LYS:HZ2	2:DA:52:THR:HB	1.78	0.49
2:DA:187:LYS:O	2:DA:190:PRO:HD2	2.12	0.49
3:UA:64:ASN:OD1	3:UA:65:LYS:N	2.45	0.49
4:UB:561:ILE:O	4:UB:564:VAL:HG12	2.13	0.49
6:UD:226:LEU:O	6:UD:227:HIS:ND1	2.45	0.49
7:UE:462:GLU:HG3	7:UE:504:TRP:HE1	1.78	0.49
9:UG:126:LEU:HB2	9:UG:159:TYR:CZ	2.47	0.49
9:UG:139:TRP:CE3	9:UG:140:ARG:HG3	2.48	0.49
14:UL:145:ILE:HD11	14:UL:166:ILE:HG21	1.94	0.49
15:UM:194:ARG:HD3	15:UM:216:ARG:HE	1.78	0.49
17:UO:144:SER:OG	17:UO:145:ASP:N	2.46	0.49
17:UO:463:VAL:HA	17:UO:466:VAL:HG12	1.95	0.49
19:UQ:404:SER:HB3	19:UQ:411:SER:HB2	1.94	0.49
20:UR:261:PRO:C	20:UR:262:LEU:HD12	2.38	0.49
21:US:358:PHE:CE2	21:US:362:MET:HE3	2.47	0.49
22:UT:2232:TRP:CD1	22:UT:2235:ILE:HD12	2.47	0.49
27:CE:109:SER:O	27:CE:111:ALA:N	2.45	0.49
27:CE:192:PHE:CE2	27:CE:195:LEU:HB2	2.48	0.49
29:CH:181:ASN:O	29:CH:184:ARG:HG3	2.13	0.49
29:CH:292:SER:OG	29:CH:293:ASP:N	2.42	0.49
31:CJ:265:THR:HG23	31:CJ:267:GLU:HG2	1.94	0.49
36:JD:1090:ASP:O	36:JD:1092:VAL:N	2.45	0.49
36:JD:1176:THR:HG23	36:JD:1177:PRO:HD3	1.94	0.49
37:JG:219:GLU:CD	37:JG:219:GLU:H	2.19	0.49
42:JP:203:LEU:HB3	42:JP:213:SER:HB3	1.94	0.49
42:JP:309:MET:HE1	57:DW:23:ARG:NH2	2.27	0.49
53:DO:61:MET:HG2	53:DO:104:ALA:HB2	1.92	0.49
58:DX:41:SER:OG	58:DX:42:PRO:HD2	2.11	0.49
58:DX:134:ALA:HB1	58:DX:140:LYS:HG3	1.94	0.49
62:D3:327:U:H2'	62:D3:328:A:H8	1.76	0.49
63:D4:172:U:H2'	63:D4:173:A:H8	1.76	0.49
1:CA:165:ALA:HB1	1:CA:166:PRO:HD2	1.95	0.49
1:CA:269:ILE:O	1:CA:315:ILE:HA	2.13	0.49
2:DA:50:LYS:HD2	2:DA:52:THR:HB	1.94	0.49
2:DA:150:VAL:CG1	9:UG:512:ARG:HE	2.26	0.49
4:UB:511:SER:OG	4:UB:556:ILE:O	2.28	0.49
5:UC:557:ASP:O	5:UC:564:LYS:HB2	2.11	0.49
6:UD:400:LYS:HE2	6:UD:419:LYS:HG3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:403:THR:O	6:UD:414:TYR:HA	2.13	0.49
7:UE:318:GLN:O	7:UE:321:GLU:HG2	2.13	0.49
7:UE:529:THR:HA	7:UE:532:ARG:NE	2.28	0.49
9:UG:447:ASN:O	42:JP:37:ARG:NH1	2.46	0.49
10:UH:647:LEU:HB2	11:UI:509:GLN:OE1	2.12	0.49
17:UO:122:ALA:HB1	17:UO:150:ARG:NH1	2.27	0.49
19:UQ:60:ARG:NH2	19:UQ:382:LYS:O	2.45	0.49
19:UQ:429:ILE:HG23	19:UQ:734:VAL:HG23	1.94	0.49
20:UR:408:CYS:SG	20:UR:409:ILE:N	2.85	0.49
21:US:181:THR:HG23	21:US:222:LEU:HD12	1.94	0.49
21:US:213:LEU:HG	21:US:268:GLN:HB2	1.95	0.49
22:UT:8:THR:HG21	62:D3:81:G:H21	1.76	0.49
22:UT:288:ILE:O	22:UT:292:LEU:HG	2.13	0.49
22:UT:480:TYR:HE1	22:UT:521:THR:HG21	1.78	0.49
22:UT:1258:TRP:O	22:UT:1262:GLU:HG3	2.13	0.49
22:UT:1283:SER:O	22:UT:1287:LEU:HD23	2.12	0.49
23:UU:510:LEU:HD11	23:UU:531:PHE:CD2	2.46	0.49
24:UV:364:VAL:O	24:UV:368:LEU:HD23	2.12	0.49
24:UV:1205:LYS:HE2	24:UV:1215:ASN:OD1	2.13	0.49
25:UX:98:ILE:HG23	25:UX:102:VAL:HG12	1.94	0.49
26:CD:395:GLU:OE2	29:CH:456:ASP:N	2.46	0.49
31:CJ:245:VAL:HG21	32:CK:373:ILE:CD1	2.42	0.49
33:CL:901:ILE:HG21	33:CL:906:ASP:O	2.12	0.49
35:CN:138:TRP:O	35:CN:141:LEU:HG	2.12	0.49
35:CN:259:ARG:HH22	52:DN:83:GLU:CA	2.26	0.49
36:JD:540:ALA:CB	36:JD:551:LYS:HG3	2.43	0.49
37:JF:104:ILE:HD12	37:JF:104:ILE:H	1.78	0.49
40:JL:128:ASN:HA	40:JL:154:MET:HG2	1.95	0.49
42:JP:188:HIS:HB2	42:JP:227:PHE:CZ	2.47	0.49
44:JJ:189:ASP:OD2	53:DO:91:THR:HA	2.13	0.49
47:DG:69:LEU:O	47:DG:99:GLY:HA3	2.13	0.49
48:DH:64:VAL:CG2	48:DH:65:PRO:HD3	2.42	0.49
49:DI:64:ASN:O	49:DI:180:ASP:HA	2.12	0.49
51:DL:79:LYS:HZ3	62:D3:346:G:P	2.31	0.49
62:D3:1060:U:H2'	62:D3:1061:A:O4'	2.12	0.49
63:D4:165:G:H2'	63:D4:166:G:C8	2.46	0.49
1:CA:83:GLY:HA2	41:JM:169:ARG:HH12	1.76	0.49
3:UA:168:LEU:HD12	9:UG:236:MET:CE	2.43	0.49
3:UA:524:ARG:NH2	3:UA:528:LYS:HB2	2.28	0.49
4:UB:445:VAL:HG23	4:UB:449:LYS:HD3	1.94	0.49
4:UB:533:LYS:O	4:UB:539:ARG:NH1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:184:MET:SD	6:UD:224:ARG:HA	2.53	0.49
7:UE:554:PHE:HB2	17:UO:475:GLU:HB2	1.95	0.49
9:UG:125:LEU:HD21	9:UG:127:ILE:HG23	1.94	0.49
12:UJ:323:PHE:CE2	12:UJ:347:PHE:HZ	2.30	0.49
12:UJ:1536:VAL:HA	12:UJ:1539:MET:HG2	1.95	0.49
12:UJ:1608:PHE:HE2	12:UJ:1613:MET:HB3	1.77	0.49
12:UJ:1627:THR:HG22	12:UJ:1669:ALA:HA	1.95	0.49
13:UK:33:ASP:OD2	33:CL:1059:ARG:NH1	2.46	0.49
13:UK:98:LEU:HD22	13:UK:214:VAL:HG11	1.94	0.49
13:UK:195:LEU:C	13:UK:199:LYS:HZ2	2.20	0.49
14:UL:87:ALA:HB2	14:UL:94:LEU:HD13	1.95	0.49
15:UM:518:TRP:HB2	15:UM:524:GLU:O	2.11	0.49
15:UM:559:ILE:HG22	15:UM:568:MET:SD	2.52	0.49
17:UO:96:LEU:HD23	17:UO:108:TYR:O	2.13	0.49
19:UQ:310:SER:C	19:UQ:326:LEU:HD13	2.38	0.49
20:UR:368:THR:O	20:UR:370:SER:N	2.41	0.49
23:UU:156:LYS:NZ	23:UU:158:THR:OG1	2.44	0.49
23:UU:565:LEU:HD22	23:UU:586:ASN:O	2.11	0.49
24:UV:983:GLU:OE1	24:UV:983:GLU:N	2.45	0.49
29:CH:164:GLN:HG3	29:CH:185:LEU:HD11	1.94	0.49
31:CJ:139:LEU:HB2	31:CJ:157:PHE:CZ	2.47	0.49
32:CK:529:ARG:NH1	62:D3:1754:A:N7	2.54	0.49
35:CN:150:LYS:HD2	35:CN:151:HIS:HB2	1.93	0.49
36:JD:439:PRO:HB2	36:JD:442:PRO:HD2	1.95	0.49
36:JD:739:PRO:HB3	36:JD:742:GLU:OE2	2.13	0.49
36:JD:1134:TYR:CG	36:JD:1164:LYS:HD3	2.47	0.49
37:JG:129:ARG:HH21	37:JG:129:ARG:HA	1.78	0.49
40:JL:68:GLY:O	40:JL:71:THR:OG1	2.25	0.49
49:DI:11:ARG:NH1	62:D3:318:U:O3'	2.46	0.49
62:D3:287:G:O2'	62:D3:288:A:OP2	2.30	0.49
62:D3:1174:C:O2'	62:D3:1601:G:O2'	2.24	0.49
3:UA:47:SER:OG	3:UA:48:PHE:N	2.46	0.49
3:UA:731:ARG:HA	3:UA:731:ARG:NE	2.28	0.49
4:UB:548:ARG:HE	4:UB:642:SER:HB3	1.77	0.49
6:UD:279:HIS:NE2	6:UD:299:GLY:HA3	2.28	0.49
7:UE:101:THR:HG22	7:UE:129:PHE:HZ	1.77	0.49
7:UE:154:VAL:HG21	7:UE:162:GLN:HG2	1.94	0.49
8:UF:46:ARG:NH1	63:D4:39:C:H1'	2.27	0.49
11:UI:452:LEU:HB3	11:UI:453:PRO:HD3	1.94	0.49
15:UM:418:ASN:HD22	15:UM:423:LYS:HD2	1.78	0.49
21:US:255:SER:HA	21:US:258:GLU:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:289:GLU:HG2	22:UT:290:SER:N	2.27	0.49
22:UT:362:PHE:HB2	22:UT:396:PHE:CE1	2.47	0.49
22:UT:898:LYS:HD2	62:D3:259:U:OP2	2.13	0.49
22:UT:2440:ARG:O	22:UT:2443:GLU:HG3	2.13	0.49
23:UU:124:PHE:HB2	27:CE:429:ALA:HB1	1.95	0.49
23:UU:817:PHE:HE1	23:UU:833:LEU:HD11	1.77	0.49
24:UV:213:LEU:O	24:UV:227:LYS:NZ	2.38	0.49
24:UV:566:ILE:HD11	24:UV:686:LEU:HD22	1.94	0.49
26:CD:203:PHE:CE2	26:CD:206:LEU:HB2	2.48	0.49
27:CE:91:GLU:HB2	27:CE:94:LEU:HB3	1.94	0.49
28:CF:7:LYS:HD2	28:CF:65:LEU:HD11	1.95	0.49
28:CG:85:VAL:HG23	29:CH:552:TRP:HB3	1.94	0.49
32:CK:516:SER:HB2	32:CK:519:GLU:CG	2.38	0.49
32:CK:529:ARG:NH1	62:D3:1754:A:C8	2.80	0.49
33:CL:53:LYS:HB2	62:D3:433:C:C5	2.48	0.49
33:CL:303:LYS:C	33:CL:304:LEU:HD12	2.38	0.49
33:CL:826:LYS:HE2	33:CL:921:GLU:HG3	1.95	0.49
33:CL:948:ILE:HB	33:CL:987:TYR:CZ	2.47	0.49
33:CL:1126:LYS:HZ3	62:D3:487:G:P	2.35	0.49
36:JD:25:ARG:HG3	36:JD:26:ILE:N	2.27	0.49
36:JD:1134:TYR:CD2	36:JD:1164:LYS:HD3	2.47	0.49
37:JF:121:LEU:HB3	37:JF:163:ILE:HG13	1.94	0.49
41:JM:155:ASP:HB3	41:JM:158:GLU:OE1	2.12	0.49
42:JP:330:ARG:HD2	42:JP:339:SER:OG	2.12	0.49
57:DW:12:ASN:HD21	62:D3:1036:A:H2	1.61	0.49
62:D3:21:U:H2'	62:D3:22:A:C8	2.42	0.49
1:CB:285:VAL:HA	1:CB:288:ARG:NH1	2.28	0.49
6:UD:97:ARG:HE	18:UP:193:LYS:HD2	1.77	0.49
6:UD:538:GLN:HE22	6:UD:577:THR:HG22	1.77	0.49
10:UH:634:LEU:O	10:UH:638:LEU:HG	2.13	0.49
12:UJ:362:LYS:CG	12:UJ:365:ILE:HD13	2.43	0.49
12:UJ:1692:VAL:HA	12:UJ:1695:MET:HG2	1.95	0.49
13:UK:64:TYR:HE2	33:CL:1080:LYS:HB2	1.77	0.49
14:UL:544:ARG:NH2	14:UL:545:TYR:OH	2.45	0.49
17:UO:6:PRO:HD2	19:UQ:480:SER:HA	1.95	0.49
17:UO:192:LEU:HA	17:UO:210:ASN:HA	1.94	0.49
20:UR:183:ASP:OD1	23:UU:281:ARG:NH2	2.40	0.49
20:UR:522:GLN:NE2	20:UR:568:VAL:O	2.37	0.49
21:US:303:TYR:CE2	21:US:340:LYS:HG2	2.48	0.49
22:UT:1232:LEU:O	22:UT:1235:LEU:HB3	2.12	0.49
22:UT:1424:MET:O	22:UT:1428:THR:HB	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CL:132:ALA:HB2	33:CL:155:PHE:CE1	2.48	0.49
36:JD:1115:ILE:H	36:JD:1115:ILE:HD12	1.77	0.49
37:JF:192:TYR:OH	37:JF:223:GLU:OE2	2.25	0.49
40:JL:200:PRO:HG3	62:D3:1782:A:N3	2.28	0.49
46:DF:185:ARG:NH2	62:D3:1573:A:OP2	2.46	0.49
47:DG:64:LYS:HD2	47:DG:83:CYS:SG	2.53	0.49
49:DI:196:LEU:O	49:DI:200:LYS:HG2	2.13	0.49
59:DY:3:ASP:OD1	59:DY:3:ASP:N	2.44	0.49
62:D3:371:G:O5'	62:D3:371:G:H8	1.95	0.49
62:D3:853:G:C6	62:D3:854:U:C4	3.01	0.49
75:EN:352:ASN:O	75:EN:356:ALA:N	2.44	0.49
1:CA:263:ASP:OD1	1:CA:322:ARG:HB3	2.12	0.49
3:UA:259:ASN:OD1	3:UA:260:GLN:N	2.45	0.49
9:UG:376:ASN:HB3	9:UG:394:HIS:HB2	1.94	0.49
10:UH:552:LYS:HA	10:UH:555:ILE:HG12	1.95	0.49
12:UJ:1461:TRP:HE1	12:UJ:1506:SER:HB2	1.78	0.49
13:UK:43:ARG:O	13:UK:46:SER:OG	2.23	0.49
14:UL:390:GLN:HG2	14:UL:394:VAL:HG22	1.95	0.49
14:UL:447:LEU:O	14:UL:454:LEU:HD12	2.13	0.49
14:UL:582:SER:OG	14:UL:583:PHE:N	2.44	0.49
15:UM:174:VAL:CG1	15:UM:184:HIS:HB2	2.43	0.49
15:UM:279:LYS:HG3	15:UM:327:ILE:HG13	1.95	0.49
15:UM:465:LYS:NZ	15:UM:520:LEU:O	2.31	0.49
15:UM:699:LYS:HB2	15:UM:755:ILE:HD11	1.95	0.49
15:UM:719:ILE:HD11	15:UM:765:MET:SD	2.53	0.49
17:UO:142:THR:HG21	17:UO:152:TRP:CH2	2.48	0.49
19:UQ:319:LYS:HD2	19:UQ:339:GLY:H	1.77	0.49
21:US:489:LYS:HD2	21:US:490:LYS:HB3	1.95	0.49
22:UT:238:GLU:HA	22:UT:241:THR:HG22	1.95	0.49
22:UT:673:ARG:HH11	22:UT:777:GLN:HE21	1.61	0.49
22:UT:1098:ASN:ND2	22:UT:1106:LEU:HB2	2.28	0.49
22:UT:1132:ALA:O	22:UT:1136:THR:HG23	2.13	0.49
22:UT:1430:TYR:N	22:UT:1435:GLU:OE1	2.45	0.49
23:UU:292:ARG:HG2	23:UU:316:ASP:OD2	2.13	0.49
24:UV:341:THR:O	24:UV:341:THR:HG22	2.13	0.49
25:UX:61:PRO:HB3	25:UX:92:ALA:HB1	1.94	0.49
26:CD:110:LYS:CE	42:JP:157:ASN:HD21	2.26	0.49
30:CI:64:LEU:HD13	30:CI:65:PRO:HD2	1.95	0.49
36:JD:120:TYR:HB3	40:JL:308:TYR:CE1	2.47	0.49
42:JP:149:SER:O	42:JP:150:ILE:HD13	2.13	0.49
45:DE:60:GLU:CD	59:DY:20:ARG:HH22	2.18	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DJ:151:ASP:OD1	50:DJ:152:SER:N	2.46	0.49
52:DN:141:TYR:CE1	52:DN:146:ALA:HB2	2.48	0.49
56:DT:92:LYS:CD	56:DT:93:HIS:H	2.25	0.49
61:D2:8:A:C2	61:D2:9:G:H1'	2.48	0.49
62:D3:827:C:H2'	62:D3:828:U:H6	1.77	0.49
63:D4:178:U:H1'	63:D4:188:A:N6	2.28	0.49
63:D4:199:G:C6	63:D4:200:C:C4	3.01	0.49
63:D4:265:C:N4	63:D4:307:G:O6	2.46	0.49
65:EB:286:ASP:O	65:EB:290:ARG:N	2.43	0.49
1:CB:208:ILE:HD11	1:CB:221:ILE:HD11	1.95	0.48
4:UB:620:SER:O	4:UB:624:THR:HB	2.13	0.48
6:UD:264:PHE:HB2	6:UD:274:GLN:HB2	1.95	0.48
6:UD:307:PHE:CD1	6:UD:322:ASN:HA	2.47	0.48
6:UD:565:ARG:C	6:UD:566:LEU:HD12	2.38	0.48
8:UF:320:ILE:HD12	8:UF:335:ILE:HG23	1.94	0.48
12:UJ:713:PHE:O	12:UJ:716:PHE:HB3	2.13	0.48
15:UM:128:VAL:HG13	15:UM:137:THR:OG1	2.13	0.48
15:UM:416:ARG:HB2	15:UM:427:TYR:HE1	1.77	0.48
15:UM:458:SER:OG	15:UM:459:ASN:N	2.44	0.48
15:UM:560:TRP:CZ3	15:UM:567:VAL:HG13	2.48	0.48
17:UO:300:GLY:HA3	17:UO:322:LEU:HD13	1.95	0.48
22:UT:2390:TYR:HD1	22:UT:2413:CYS:SG	2.36	0.48
23:UU:232:MET:HE3	23:UU:256:PHE:HZ	1.77	0.48
24:UV:730:LEU:HD22	24:UV:768:PRO:HG3	1.94	0.48
25:UX:155:THR:OG1	25:UX:156:ASN:N	2.45	0.48
29:CH:69:GLN:NE2	29:CH:73:ASN:OD1	2.47	0.48
31:CJ:189:LEU:HD23	31:CJ:191:PHE:CE2	2.46	0.48
33:CL:222:ASN:O	33:CL:225:ARG:HG2	2.13	0.48
33:CL:254:HIS:NE2	33:CL:256:GLU:HB3	2.28	0.48
33:CL:549:ILE:HG21	34:CM:350:MET:HE1	1.95	0.48
33:CL:625:TRP:HZ3	34:CM:281:GLU:HA	1.78	0.48
33:CL:769:TYR:HB3	33:CL:777:ARG:CZ	2.43	0.48
33:CL:862:THR:HB	33:CL:872:LEU:HD11	1.94	0.48
33:CL:1119:ILE:HD13	41:JM:194:ILE:HD13	1.95	0.48
34:CM:29:LYS:NZ	34:CM:332:ILE:O	2.28	0.48
35:CN:167:THR:HG22	35:CN:171:PHE:CZ	2.48	0.48
36:JD:417:GLY:O	36:JD:815:ARG:NH2	2.46	0.48
36:JD:1018:LYS:O	36:JD:1021:LYS:N	2.37	0.48
42:JP:287:TYR:HD1	42:JP:300:VAL:HG12	1.75	0.48
44:JJ:131:ASN:ND2	44:JJ:138:GLU:OE2	2.46	0.48
47:DG:131:LYS:HE2	62:D3:166:C:OP1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:DH:64:VAL:HG23	48:DH:65:PRO:HD3	1.95	0.48
50:DJ:87:SER:OG	50:DJ:90:LYS:HG3	2.13	0.48
54:DQ:10:PHE:CE1	54:DQ:19:VAL:HG22	2.48	0.48
60:Dc:10:ALA:HB1	60:Dc:30:VAL:HB	1.95	0.48
75:EN:92:GLU:HA	75:EN:114:ARG:HA	1.95	0.48
1:CA:244:VAL:HG23	1:CA:249:GLN:HG3	1.94	0.48
1:CA:319:ARG:HG3	1:CA:319:ARG:HH11	1.78	0.48
1:CB:165:ALA:HB3	1:CB:168:LYS:HG3	1.94	0.48
1:CB:168:LYS:O	1:CB:192:GLY:HA3	2.13	0.48
4:UB:443:LYS:HB3	4:UB:447:SER:OG	2.12	0.48
7:UE:443:GLN:HE21	17:UO:252:ASN:ND2	2.05	0.48
8:UF:128:LYS:O	8:UF:132:ILE:HG12	2.13	0.48
8:UF:183:TYR:CE2	8:UF:187:LYS:HD2	2.49	0.48
8:UF:358:LEU:O	8:UF:362:THR:HG23	2.12	0.48
9:UG:190:HIS:HE2	9:UG:217:HIS:HB2	1.77	0.48
12:UJ:1452:GLU:OE1	12:UJ:1452:GLU:N	2.43	0.48
15:UM:576:ASN:HD21	15:UM:596:ASP:N	2.11	0.48
15:UM:616:HIS:CE1	15:UM:640:VAL:HG13	2.48	0.48
19:UQ:254:TYR:HD1	19:UQ:257:ARG:HE	1.61	0.48
19:UQ:740:LYS:HE2	19:UQ:742:ARG:HH22	1.78	0.48
20:UR:165:ARG:NH2	23:UU:236:ARG:HH12	2.11	0.48
22:UT:99:ASP:O	22:UT:103:LEU:HG	2.13	0.48
22:UT:339:LEU:O	22:UT:343:ILE:HG12	2.13	0.48
22:UT:2340:ILE:O	22:UT:2343:ILE:HG22	2.12	0.48
22:UT:2423:VAL:O	22:UT:2427:THR:HG23	2.13	0.48
24:UV:525:LEU:HB2	24:UV:617:LEU:HB2	1.95	0.48
24:UV:586:VAL:O	24:UV:611:ASP:N	2.28	0.48
24:UV:936:LEU:O	24:UV:939:ILE:HG22	2.13	0.48
24:UV:1228:ASN:ND2	35:CN:162:THR:HB	2.29	0.48
27:CE:407:ARG:NH1	27:CE:407:ARG:HA	2.28	0.48
31:CJ:96:PRO:HB3	31:CJ:100:LEU:HD23	1.95	0.48
33:CL:847:LEU:HA	33:CL:898:GLY:HA2	1.94	0.48
37:JF:233:SER:HB3	37:JF:236:VAL:HG12	1.95	0.48
46:DF:111:VAL:O	46:DF:114:ILE:HG22	2.13	0.48
47:DG:20:ASP:O	47:DG:24:ILE:HG12	2.13	0.48
61:D2:13:U:H1'	61:D2:70:A:N7	2.28	0.48
62:D3:388:G:OP2	62:D3:423:G:O2'	2.31	0.48
62:D3:647:G:H22	62:D3:687:G:N2	2.11	0.48
75:EN:622:GLU:O	75:EN:626:ALA:N	2.40	0.48
1:CA:144:TRP:HE1	1:CA:183:HIS:HB3	1.78	0.48
1:CB:91:HIS:CE1	1:CB:92:ARG:HG2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:84:ASN:HA	6:UD:85:TRP:HE3	1.78	0.48
6:UD:633:CYS:SG	6:UD:648:PHE:HB3	2.54	0.48
11:UI:437:ILE:HG12	11:UI:452:LEU:HD11	1.96	0.48
12:UJ:115:LEU:HD12	12:UJ:115:LEU:HA	1.62	0.48
12:UJ:1642:SER:O	12:UJ:1645:GLU:HG3	2.13	0.48
14:UL:213:LYS:HB2	14:UL:261:PHE:CE2	2.48	0.48
14:UL:854:CYS:SG	14:UL:887:LEU:HD11	2.53	0.48
15:UM:84:LEU:HD11	15:UM:86:LYS:HE2	1.95	0.48
15:UM:561:SER:N	15:UM:568:MET:HE1	2.28	0.48
16:UN:815:VAL:HG23	16:UN:816:VAL:HG22	1.96	0.48
17:UO:434:ARG:NH2	17:UO:466:VAL:HG23	2.28	0.48
19:UQ:690:ASN:ND2	19:UQ:749:ASP:O	2.44	0.48
21:US:467:ALA:O	21:US:470:MET:HB2	2.13	0.48
22:UT:1312:SER:HA	22:UT:1315:ARG:HE	1.78	0.48
22:UT:1655:ARG:NE	22:UT:1693:THR:HG22	2.27	0.48
23:UU:503:ARG:HB2	23:UU:523:ASP:HB3	1.96	0.48
24:UV:426:ILE:HG22	24:UV:496:LEU:CD2	2.43	0.48
24:UV:1178:ASP:N	24:UV:1178:ASP:OD1	2.44	0.48
25:UX:97:LEU:HB3	25:UX:128:LEU:HD22	1.95	0.48
29:CH:304:ILE:CD1	29:CH:338:THR:HG21	2.43	0.48
31:CJ:86:PRO:HA	31:CJ:137:THR:OG1	2.13	0.48
36:JD:95:LYS:O	36:JD:99:LYS:HG2	2.13	0.48
36:JD:1149:PRO:CG	36:JD:1172:ASP:HB2	2.43	0.48
42:JP:309:MET:HE2	42:JP:325:TYR:HB2	1.96	0.48
45:DE:11:ARG:NH1	45:DE:20:LEU:HB3	2.28	0.48
45:DE:183:VAL:HG12	45:DE:191:ARG:O	2.13	0.48
46:DF:108:LEU:O	46:DF:112:ARG:HG2	2.13	0.48
55:DS:41:ARG:HH21	62:D3:1565:C:P	2.36	0.48
62:D3:1592:A:C2	62:D3:1605:G:C2	3.01	0.48
69:EF:9:SER:O	69:EF:13:ASP:N	2.45	0.48
1:CA:195:TYR:HD1	1:CA:218:ILE:HD11	1.79	0.48
3:UA:282:GLY:HA3	3:UA:301:GLY:O	2.13	0.48
3:UA:793:GLU:OE1	23:UU:721:LEU:HB2	2.13	0.48
1:CB:116:SER:H	1:CB:122:ARG:HH21	1.62	0.48
1:CB:197:VAL:HG22	1:CB:220:ILE:HB	1.94	0.48
4:UB:696:GLU:HG2	4:UB:697:HIS:N	2.28	0.48
4:UB:781:MET:SD	58:DX:61:SER:OG	2.70	0.48
6:UD:574:HIS:NE2	6:UD:638:SER:OG	2.41	0.48
7:UE:251:GLY:O	7:UE:288:LYS:NZ	2.39	0.48
8:UF:3:LYS:HG2	8:UF:7:TYR:CE2	2.48	0.48
10:UH:670:GLU:O	10:UH:674:GLU:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:UJ:87:THR:HG22	12:UJ:90:GLU:OE1	2.13	0.48
12:UJ:771:ILE:O	12:UJ:775:ILE:HG23	2.12	0.48
12:UJ:1664:LYS:HA	12:UJ:1667:VAL:HG12	1.94	0.48
14:UL:163:LYS:O	62:D3:1752:U:H5'	2.14	0.48
14:UL:568:SER:HB3	14:UL:570:TYR:CE1	2.48	0.48
14:UL:619:MET:H	14:UL:634:SER:HA	1.79	0.48
15:UM:32:LEU:HD12	15:UM:33:ALA:N	2.28	0.48
19:UQ:138:ASP:OD1	19:UQ:138:ASP:N	2.41	0.48
19:UQ:279:VAL:HG21	61:D2:82:A:H62	1.77	0.48
20:UR:144:LYS:O	20:UR:147:ARG:HG3	2.13	0.48
22:UT:1238:ASN:OD1	22:UT:1239:ASP:N	2.45	0.48
22:UT:1472:HIS:CG	22:UT:1473:ALA:N	2.82	0.48
22:UT:2438:LEU:O	22:UT:2441:ARG:HB2	2.14	0.48
23:UU:57:THR:OG1	23:UU:72:SER:OG	2.06	0.48
23:UU:420:GLU:HB2	23:UU:468:MET:HE3	1.93	0.48
23:UU:717:ASP:OD1	23:UU:718:LYS:N	2.45	0.48
24:UV:391:PHE:O	24:UV:394:THR:OG1	2.24	0.48
24:UV:872:ASN:OD1	24:UV:873:GLU:N	2.46	0.48
26:CD:26:ASP:OD1	26:CD:123:LEU:HD11	2.13	0.48
36:JD:1212:TYR:CE1	36:JD:1235:ALA:HB2	2.49	0.48
37:JF:76:LEU:O	37:JF:80:MET:HG3	2.13	0.48
45:DE:88:ASP:O	45:DE:100:ARG:HA	2.13	0.48
46:DF:112:ARG:NH1	62:D3:1529:C:OP2	2.47	0.48
46:DF:216:GLU:OE2	46:DF:219:ARG:NH1	2.39	0.48
51:DL:76:VAL:HG21	51:DL:87:ARG:HB2	1.96	0.48
62:D3:388:G:OP1	62:D3:402:C:H5	1.96	0.48
62:D3:1683:C:O2'	62:D3:1684:U:O5'	2.29	0.48
65:EB:207:GLU:O	65:EB:211:LYS:N	2.39	0.48
72:EI:348:ILE:O	72:EI:352:GLU:N	2.46	0.48
1:CA:253:ILE:HG21	1:CA:269:ILE:HD11	1.95	0.48
2:DA:143:THR:O	2:DA:154:SER:OG	2.31	0.48
3:UA:732:GLU:CD	3:UA:734:GLN:HE22	2.21	0.48
6:UD:213:TRP:CD1	6:UD:225:LEU:HB3	2.48	0.48
6:UD:242:TRP:HH2	18:UP:202:LYS:HE2	1.78	0.48
9:UG:213:TRP:HE1	9:UG:227:GLU:CG	2.26	0.48
11:UI:464:SER:HA	11:UI:467:LEU:HD12	1.96	0.48
12:UJ:560:ILE:O	12:UJ:564:VAL:HG13	2.13	0.48
12:UJ:576:ILE:HG12	12:UJ:579:ARG:HH21	1.78	0.48
12:UJ:1590:ILE:O	12:UJ:1593:TYR:HB2	2.13	0.48
14:UL:672:VAL:O	14:UL:684:TRP:HD1	1.95	0.48
17:UO:372:HIS:N	20:UR:287:SER:OG	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:UO:431:LEU:O	17:UO:434:ARG:NH1	2.46	0.48
19:UQ:258:TYR:CE1	19:UQ:414:ILE:HG12	2.48	0.48
19:UQ:450:TYR:CD2	19:UQ:500:PHE:HZ	2.32	0.48
19:UQ:554:SER:O	19:UQ:554:SER:OG	2.30	0.48
21:US:156:TRP:HH2	21:US:219:TRP:HB2	1.79	0.48
22:UT:33:ASN:CG	22:UT:34:LEU:H	2.19	0.48
22:UT:470:ILE:HD12	22:UT:504:ILE:HD13	1.94	0.48
22:UT:673:ARG:HA	22:UT:678:TRP:HZ2	1.78	0.48
22:UT:1268:ILE:HA	22:UT:1271:LEU:HD12	1.95	0.48
22:UT:2301:LEU:HA	22:UT:2304:ILE:HG22	1.95	0.48
22:UT:2428:LYS:O	22:UT:2431:THR:OG1	2.26	0.48
24:UV:238:HIS:O	24:UV:241:ILE:HG12	2.13	0.48
24:UV:378:ASN:O	24:UV:387:GLY:N	2.46	0.48
29:CH:162:CYS:SG	29:CH:540:LEU:HD12	2.53	0.48
30:CI:96:ASP:HA	30:CI:100:LYS:HZ2	1.78	0.48
33:CL:625:TRP:HH2	34:CM:284:SER:HB3	1.78	0.48
33:CL:1018:VAL:HG12	33:CL:1029:TRP:CH2	2.48	0.48
37:JF:243:HIS:HD2	37:JG:243:HIS:HD2	1.60	0.48
41:JM:190:LYS:HA	41:JM:193:GLU:OE2	2.13	0.48
53:DO:40:ALA:HB2	53:DO:70:LYS:HG2	1.96	0.48
62:D3:514:G:O2’	62:D3:515:A:H5”	2.12	0.48
62:D3:926:A:OP1	62:D3:1016:C:O2’	2.24	0.48
70:EG:193:ALA:HA	70:EG:202:SER:HA	1.94	0.48
75:EN:1022:GLY:O	75:EN:1026:ARG:N	2.42	0.48
1:CA:228:GLN:NE2	1:CA:259:MET:SD	2.87	0.48
1:CA:236:MET:HE2	26:CD:132:ARG:HD2	1.95	0.48
4:UB:438:ASN:ND2	4:UB:494:SER:HB3	2.28	0.48
4:UB:504:ILE:HG23	4:UB:508:PHE:CD2	2.48	0.48
6:UD:249:ARG:NH1	6:UD:249:ARG:O	2.46	0.48
7:UE:161:ALA:HA	7:UE:175:ILE:HG12	1.93	0.48
8:UF:46:ARG:HE	61:D2:480:C:H1’	1.78	0.48
8:UF:331:ARG:O	8:UF:335:ILE:HG12	2.14	0.48
10:UH:563:LEU:HD21	10:UH:590:PHE:CG	2.48	0.48
11:UI:437:ILE:HG23	11:UI:452:LEU:HG	1.95	0.48
12:UJ:769:LEU:HA	12:UJ:772:VAL:HG12	1.96	0.48
12:UJ:800:ASP:OD1	12:UJ:800:ASP:N	2.46	0.48
14:UL:52:TRP:CE3	14:UL:59:LEU:HD13	2.45	0.48
14:UL:260:GLU:HB3	14:UL:273:TYR:CE2	2.49	0.48
15:UM:800:VAL:O	15:UM:803:SER:OG	2.18	0.48
16:UN:288:TYR:HA	42:JP:255:THR:HG23	1.95	0.48
17:UO:508:LEU:HD12	17:UO:509:GLN:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:UQ:412:ASN:HD22	19:UQ:417:LEU:HD12	1.79	0.48
22:UT:502:GLU:OE2	22:UT:503:ARG:HD3	2.12	0.48
22:UT:1702:HIS:HA	22:UT:1705:LEU:HD12	1.96	0.48
22:UT:1987:LEU:HB3	22:UT:1988:PRO:HD3	1.94	0.48
23:UU:414:ILE:HG12	23:UU:434:HIS:CE1	2.48	0.48
23:UU:510:LEU:HD23	23:UU:511:ASP:O	2.13	0.48
24:UV:903:SER:O	24:UV:906:TYR:C	2.57	0.48
26:CD:209:LEU:HD13	26:CD:250:ARG:HG3	1.96	0.48
27:CE:17:ALA:HA	27:CE:42:PHE:CE1	2.48	0.48
35:CN:16:VAL:HG13	35:CN:144:TYR:CD2	2.49	0.48
36:JD:385:GLN:HA	36:JD:388:ARG:HD3	1.95	0.48
36:JD:1023:ILE:O	36:JD:1026:LYS:HG3	2.14	0.48
36:JD:1117:TYR:HA	36:JD:1132:PHE:CE1	2.49	0.48
45:DE:36:HIS:CD2	45:DE:85:GLY:HA3	2.48	0.48
49:DI:70:GLU:HG3	49:DI:112:TRP:CH2	2.48	0.48
49:DI:84:HIS:CD2	49:DI:90:LEU:HD12	2.48	0.48
56:DT:88:VAL:HG13	62:D3:1172:G:H21	1.78	0.48
59:DY:6:THR:HG21	59:DY:8:ARG:NH2	2.28	0.48
62:D3:735:C:H2'	62:D3:736:C:O4'	2.13	0.48
62:D3:959:U:O2	62:D3:959:U:H2'	2.13	0.48
62:D3:1542:G:N2	62:D3:1569:A:OP2	2.47	0.48
63:D4:44:U:H2'	63:D4:45:U:C6	2.49	0.48
63:D4:80:U:OP1	63:D4:81:U:O2'	2.20	0.48
1:CA:200:SER:OG	28:CG:72:GLU:OE1	2.25	0.48
6:UD:288:THR:OG1	6:UD:289:ASP:N	2.45	0.48
12:UJ:22:ARG:NH2	42:JP:18:SER:O	2.46	0.48
12:UJ:368:SER:HA	12:UJ:371:LYS:NZ	2.29	0.48
12:UJ:798:ASP:OD1	12:UJ:799:SER:N	2.47	0.48
12:UJ:1607:ARG:HE	12:UJ:1612:ASP:CB	2.26	0.48
14:UL:19:SER:HB2	14:UL:44:SER:OG	2.13	0.48
14:UL:823:VAL:HA	60:Dc:16:LEU:CD2	2.44	0.48
15:UM:661:LEU:O	15:UM:665:GLN:HG2	2.14	0.48
17:UO:62:ARG:NH1	17:UO:64:GLN:HG2	2.29	0.48
17:UO:315:ASN:HB3	17:UO:333:LYS:NZ	2.27	0.48
19:UQ:139:GLU:HB2	19:UQ:156:THR:O	2.14	0.48
19:UQ:404:SER:OG	19:UQ:405:ALA:N	2.46	0.48
20:UR:335:GLN:HG2	20:UR:336:THR:HG23	1.94	0.48
21:US:196:GLN:HE21	21:US:219:TRP:HH2	1.60	0.48
22:UT:1239:ASP:O	22:UT:1243:ILE:HG13	2.14	0.48
22:UT:1556:ARG:HD3	22:UT:1618:ASN:OD1	2.14	0.48
24:UV:376:SER:O	24:UV:387:GLY:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CD:188:ILE:HD11	26:CD:281:LEU:HB3	1.96	0.48
28:CG:7:LYS:HD2	28:CG:65:LEU:HD11	1.95	0.48
31:CJ:111:PHE:CZ	31:CJ:209:LEU:HD13	2.49	0.48
33:CL:625:TRP:CE3	34:CM:280:LEU:HD23	2.49	0.48
33:CL:751:TYR:HB2	58:DX:77:ILE:HG22	1.95	0.48
35:CN:18:PHE:CD1	35:CN:158:TRP:HB2	2.49	0.48
41:JM:108:LYS:CD	41:JM:109:PRO:HD2	2.41	0.48
41:JM:135:HIS:CE1	62:D3:487:G:C4	3.01	0.48
45:DE:147:ILE:HG21	45:DE:169:ILE:HG13	1.94	0.48
45:DE:181:VAL:CG1	45:DE:225:VAL:HG13	2.43	0.48
51:DL:133:LYS:HG2	51:DL:134:THR:HG23	1.94	0.48
54:DQ:98:ASP:OD1	54:DQ:101:SER:OG	2.25	0.48
55:DS:18:LEU:HD11	55:DS:70:VAL:HG13	1.95	0.48
55:DS:81:ILE:HG22	55:DS:86:LEU:HD22	1.96	0.48
62:D3:763:G:H1	62:D3:773:C:H42	1.61	0.48
62:D3:985:G:H2'	62:D3:986:G:C8	2.49	0.48
62:D3:1706:C:H2'	62:D3:1707:A:C8	2.49	0.48
68:EE:15:GLY:O	68:EE:30:VAL:N	2.41	0.48
1:CA:107:VAL:HA	1:CA:142:ARG:O	2.14	0.48
1:CB:114:GLY:H	1:CB:140:GLU:CD	2.17	0.48
6:UD:331:ASN:OD1	6:UD:768:ALA:HA	2.14	0.48
6:UD:625:GLU:HA	6:UD:628:THR:HG22	1.95	0.48
7:UE:53:LEU:HD13	7:UE:58:LEU:HD12	1.96	0.48
7:UE:453:LEU:HB3	7:UE:487:ARG:NH1	2.25	0.48
8:UF:152:LYS:HG3	41:JM:65:LEU:HB2	1.96	0.48
8:UF:163:SER:O	8:UF:167:ILE:HG12	2.14	0.48
9:UG:430:VAL:HG21	30:CI:3:ARG:HE	1.79	0.48
13:UK:29:GLU:OE2	33:CL:1062:ARG:NH1	2.47	0.48
14:UL:159:LEU:HB3	14:UL:189:TRP:CZ3	2.48	0.48
15:UM:189:HIS:CD2	15:UM:215:GLY:HA3	2.48	0.48
15:UM:249:LEU:HB2	15:UM:257:ILE:HB	1.95	0.48
17:UO:177:ILE:HD12	17:UO:178:PRO:HD2	1.95	0.48
17:UO:234:PHE:CZ	17:UO:248:ARG:HB2	2.48	0.48
19:UQ:559:LYS:HG3	19:UQ:613:LEU:HD23	1.95	0.48
22:UT:593:ASP:O	22:UT:596:ILE:HG22	2.14	0.48
22:UT:608:MET:SD	22:UT:615:VAL:HA	2.54	0.48
22:UT:1148:GLY:O	22:UT:1151:ILE:HG12	2.14	0.48
22:UT:1272:PHE:HD1	22:UT:1284:LEU:HD21	1.79	0.48
22:UT:1516:GLN:HA	22:UT:1554:PRO:HB3	1.96	0.48
22:UT:1906:GLU:N	22:UT:1906:GLU:OE1	2.45	0.48
23:UU:131:SER:HB2	23:UU:170:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UU:546:ILE:HA	23:UU:562:LEU:HD23	1.95	0.48
24:UV:872:ASN:ND2	39:JI:1543:TYR:HA	2.27	0.48
30:CI:51:CYS:O	30:CI:55:ARG:HG3	2.14	0.48
30:CI:57:LEU:HD21	32:CK:440:LEU:HD22	1.96	0.48
31:CJ:187:PRO:HB3	31:CJ:220:ARG:HG3	1.96	0.48
36:JD:384:ILE:HD12	36:JD:465:GLU:O	2.14	0.48
37:JG:94:GLN:OE1	37:JG:235:SER:HB3	2.13	0.48
40:JL:41:ASN:OD1	40:JL:195:ASN:ND2	2.47	0.48
48:DH:161:GLN:HA	48:DH:164:TYR:HE2	1.78	0.48
53:DO:52:ARG:HG3	62:D3:906:A:OP1	2.14	0.48
62:D3:16:G:H2'	62:D3:17:C:C6	2.49	0.48
63:D4:45:U:H2'	63:D4:46:U:C6	2.49	0.48
3:UA:621:MET:SD	3:UA:627:LEU:HD21	2.54	0.48
4:UB:422:LEU:HD22	4:UB:466:TYR:CD2	2.48	0.48
5:UC:562:ARG:HB3	50:DJ:37:LYS:HB3	1.96	0.48
9:UG:118:TYR:CE2	9:UG:125:LEU:HD12	2.49	0.48
13:UK:140:ARG:HA	13:UK:143:MET:CE	2.44	0.48
15:UM:694:LEU:HD22	15:UM:746:TRP:HH2	1.78	0.48
16:UN:295:VAL:HG13	42:JP:275:PHE:HB3	1.96	0.48
16:UN:321:HIS:NE2	26:CD:90:SER:OG	2.47	0.48
19:UQ:356:LEU:CD2	19:UQ:372:LEU:HB3	2.44	0.48
19:UQ:500:PHE:CD1	19:UQ:507:MET:HB3	2.49	0.48
22:UT:2138:LEU:O	22:UT:2141:VAL:HG22	2.14	0.48
23:UU:303:PHE:CE2	23:UU:310:ILE:HD12	2.46	0.48
23:UU:336:VAL:O	23:UU:336:VAL:HG12	2.14	0.48
26:CD:196:LYS:HA	26:CD:216:PHE:CE2	2.49	0.48
27:CE:24:LYS:O	27:CE:28:LEU:HD23	2.14	0.48
33:CL:296:PHE:CE1	33:CL:796:VAL:HG22	2.48	0.48
33:CL:624:LYS:HG2	33:CL:625:TRP:CD1	2.49	0.48
34:CM:29:LYS:HZ3	34:CM:332:ILE:HG23	1.77	0.48
34:CM:197:SER:OG	34:CM:240:GLY:O	2.21	0.48
35:CN:168:PHE:CD2	35:CN:171:PHE:HD2	2.31	0.48
36:JD:493:THR:HG22	36:JD:496:VAL:HG23	1.96	0.48
46:DF:154:ALA:O	46:DF:156:ARG:NH1	2.47	0.48
48:DH:9:LEU:HD23	48:DH:10:SER:N	2.29	0.48
49:DI:107:THR:O	49:DI:111:GLN:HG3	2.13	0.48
49:DI:190:ALA:O	49:DI:194:ARG:HD3	2.14	0.48
56:DT:71:VAL:HG12	56:DT:75:LYS:HD3	1.95	0.48
62:D3:107:C:H5"	62:D3:383:G:O2'	2.14	0.48
62:D3:728:U:H2'	62:D3:729:G:C8	2.49	0.48
63:D4:181:G:H21	63:D4:184:U:H5	1.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UA:415:ASP:O	3:UA:416:LEU:HD23	2.14	0.48
1:CB:178:GLY:HA2	1:CB:181:VAL:HG12	1.96	0.48
4:UB:459:LEU:HA	4:UB:462:LEU:HG	1.95	0.48
4:UB:704:ASN:HD21	21:US:422:ILE:HG21	1.78	0.48
6:UD:422:LEU:HD13	6:UD:444:ARG:NH2	2.28	0.48
8:UF:297:ASP:OD1	8:UF:299:LYS:HE3	2.14	0.48
10:UH:293:TYR:HA	10:UH:304:GLN:HA	1.96	0.48
10:UH:665:GLN:HA	10:UH:668:ILE:HG22	1.96	0.48
12:UJ:180:ILE:HD11	19:UQ:876:PHE:HE2	1.78	0.48
15:UM:186:LEU:HD23	15:UM:223:TRP:CD2	2.49	0.48
16:UN:773:LYS:HA	16:UN:773:LYS:HD3	1.54	0.48
17:UO:465:VAL:O	17:UO:468:GLU:HG2	2.14	0.48
19:UQ:852:ASP:OD2	20:UR:475:LYS:NZ	2.47	0.48
20:UR:564:LYS:HD2	20:UR:582:GLU:HG3	1.95	0.48
22:UT:219:LEU:HD21	22:UT:270:ARG:HG2	1.96	0.48
22:UT:1155:ASP:HB2	22:UT:1201:LEU:HG	1.95	0.48
22:UT:1169:ASP:O	22:UT:1172:THR:OG1	2.28	0.48
22:UT:2185:ILE:HD11	22:UT:2216:TYR:CE1	2.40	0.48
29:CH:222:PRO:O	29:CH:225:LYS:HG3	2.13	0.48
33:CL:1018:VAL:HG12	33:CL:1029:TRP:CZ2	2.49	0.48
34:CM:214:LYS:HG2	34:CM:217:LYS:NZ	2.25	0.48
42:JP:96:ASN:HB2	42:JP:103:PHE:CE1	2.49	0.48
62:D3:144:U:H2'	62:D3:145:A:O4'	2.14	0.48
62:D3:1623:C:H2'	62:D3:1624:C:H6	1.79	0.48
63:D4:263:A:H2'	63:D4:264:C:C6	2.49	0.48
65:EB:107:ILE:O	65:EB:111:SER:N	2.37	0.48
2:DA:88:VAL:HG21	2:DA:96:LEU:HB3	1.95	0.47
5:UC:433:ARG:HD3	37:JF:231:PRO:HG2	1.95	0.47
6:UD:57:ILE:HG22	6:UD:340:GLN:HB2	1.96	0.47
7:UE:458:ASN:ND2	7:UE:494:ARG:HH22	2.12	0.47
12:UJ:272:LYS:O	12:UJ:275:ILE:HG22	2.14	0.47
12:UJ:351:TYR:O	12:UJ:354:SER:OG	2.28	0.47
12:UJ:1567:THR:OG1	12:UJ:1570:GLU:OE1	2.32	0.47
12:UJ:1692:VAL:HG12	12:UJ:1695:MET:HE2	1.95	0.47
13:UK:158:MET:HE1	13:UK:166:LEU:HD23	1.96	0.47
13:UK:250:ARG:HH21	20:UR:515:THR:HG22	1.79	0.47
14:UL:369:TYR:HB2	14:UL:373:ASP:O	2.14	0.47
15:UM:731:LEU:HD23	15:UM:736:LEU:HD23	1.97	0.47
19:UQ:444:PRO:HB3	19:UQ:770:TYR:CE1	2.49	0.47
20:UR:465:THR:OG1	20:UR:466:THR:N	2.47	0.47
21:US:324:PHE:CG	21:US:365:PHE:HE2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1083:TYR:OH	22:UT:1125:ASP:OD2	2.32	0.47
22:UT:1155:ASP:CB	22:UT:1201:LEU:HG	2.44	0.47
24:UV:167:PRO:HD3	24:UV:226:HIS:CE1	2.49	0.47
26:CD:33:GLU:OE1	42:JP:382:ARG:HB3	2.14	0.47
26:CD:395:GLU:OE2	29:CH:455:THR:N	2.47	0.47
27:CE:126:GLU:O	27:CE:129:PRO:HD2	2.14	0.47
27:CE:167:ILE:HD11	27:CE:298:ARG:NE	2.28	0.47
34:CM:22:VAL:O	34:CM:25:THR:OG1	2.32	0.47
36:JD:469:HIS:HD2	36:JD:472:LYS:HE3	1.79	0.47
36:JD:928:VAL:HA	36:JD:931:VAL:HG12	1.96	0.47
36:JD:1039:VAL:HG23	36:JD:1040:LYS:HD3	1.95	0.47
51:DL:45:PRO:HB2	51:DL:47:THR:HG22	1.96	0.47
51:DL:99:ARG:HD2	58:DX:15:LEU:HD12	1.96	0.47
63:D4:188:A:H3'	63:D4:189:A:C8	2.48	0.47
3:UA:170:ALA:O	3:UA:187:PHE:HB2	2.14	0.47
3:UA:585:TYR:HD1	3:UA:592:ILE:HG12	1.78	0.47
3:UA:678:GLU:HG2	3:UA:679:VAL:N	2.29	0.47
3:UA:839:THR:HG23	23:UU:916:HIS:NE2	2.29	0.47
4:UB:613:ILE:HG13	4:UB:614:ILE:N	2.29	0.47
4:UB:703:GLN:HE22	21:US:488:PHE:H	1.61	0.47
9:UG:138:ASP:OD2	9:UG:141:LYS:NZ	2.36	0.47
12:UJ:764:ASN:O	12:UJ:768:LYS:HG3	2.13	0.47
12:UJ:1540:ASN:O	12:UJ:1543:VAL:HG22	2.14	0.47
13:UK:120:LYS:NZ	63:D4:321:C:OP2	2.47	0.47
13:UK:125:LEU:HD11	13:UK:198:PHE:CE1	2.50	0.47
14:UL:182:LYS:HE2	14:UL:208:TRP:CH2	2.50	0.47
15:UM:508:THR:O	15:UM:515:CYS:HA	2.13	0.47
17:UO:133:HIS:HD2	17:UO:135:GLN:N	2.12	0.47
18:UP:170:SER:HA	18:UP:177:ARG:HH12	1.79	0.47
18:UP:177:ARG:NH1	18:UP:178:VAL:O	2.47	0.47
19:UQ:249:THR:HB	61:D2:82:A:C2	2.48	0.47
19:UQ:426:ARG:HH12	61:D2:67:G:H3'	1.79	0.47
19:UQ:529:LEU:HD23	19:UQ:550:PRO:HG2	1.96	0.47
19:UQ:769:ASN:HB3	19:UQ:773:ASP:OD1	2.14	0.47
22:UT:214:SER:O	22:UT:218:LYS:HG2	2.13	0.47
22:UT:473:SER:HA	22:UT:476:LEU:HD12	1.95	0.47
22:UT:1545:VAL:O	22:UT:1549:VAL:HG23	2.14	0.47
22:UT:1780:ARG:HA	22:UT:1860:ASN:ND2	2.29	0.47
22:UT:2448:ARG:HH21	62:D3:827:C:H5	1.61	0.47
23:UU:284:ILE:H	23:UU:284:ILE:HD12	1.79	0.47
23:UU:364:HIS:HD2	23:UU:381:ARG:HE	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UU:530:ASP:OD1	23:UU:531:PHE:N	2.47	0.47
23:UU:820:GLN:HA	23:UU:823:GLU:OE2	2.14	0.47
24:UV:270:ILE:HB	24:UV:292:ILE:HB	1.96	0.47
24:UV:638:MET:HE1	24:UV:646:LYS:HD3	1.97	0.47
27:CE:315:SER:HB3	63:D4:325:C:C6	2.49	0.47
27:CE:319:ILE:HD12	27:CE:326:LEU:HD22	1.96	0.47
28:CF:39:GLU:O	28:CF:43:THR:HG22	2.14	0.47
28:CG:5:ASN:HA	29:CH:462:ARG:HG2	1.95	0.47
29:CH:138:ASP:OD1	29:CH:138:ASP:N	2.43	0.47
31:CJ:269:LYS:HB3	31:CJ:269:LYS:HE2	1.73	0.47
34:CM:287:ALA:HB2	34:CM:314:ASN:HB2	1.96	0.47
35:CN:132:ALA:HA	35:CN:135:ASN:HD21	1.78	0.47
37:JF:113:TYR:HA	37:JF:122:ILE:O	2.13	0.47
47:DG:32:ILE:HG22	47:DG:100:ALA:HB1	1.96	0.47
48:DH:131:PHE:CG	48:DH:132:PRO:HA	2.49	0.47
49:DI:40:ALA:HB3	49:DI:59:ARG:HH12	1.79	0.47
54:DQ:52:LEU:HG	54:DQ:60:PHE:CE2	2.49	0.47
62:D3:416:A:H3'	62:D3:417:A:C8	2.49	0.47
62:D3:1110:G:H2'	62:D3:1111:G:C8	2.49	0.47
66:EC:105:VAL:O	66:EC:109:GLU:N	2.47	0.47
3:UA:564:PHE:HZ	3:UA:678:GLU:OE1	1.97	0.47
1:CB:162:LEU:HD23	1:CB:164:ILE:H	1.79	0.47
1:CB:236:MET:HE1	27:CE:122:GLU:HG3	1.96	0.47
4:UB:788:ILE:HD11	58:DX:57:LEU:HD12	1.96	0.47
9:UG:157:ALA:HB2	9:UG:168:VAL:HG12	1.96	0.47
9:UG:288:TYR:CB	9:UG:345:LEU:HD12	2.44	0.47
11:UI:481:HIS:O	11:UI:484:SER:OG	2.27	0.47
12:UJ:375:LEU:HD23	12:UJ:375:LEU:HA	1.71	0.47
12:UJ:1503:LEU:O	12:UJ:1507:LEU:HG	2.15	0.47
12:UJ:1709:ARG:NH1	12:UJ:1709:ARG:HB2	2.29	0.47
15:UM:587:GLN:O	15:UM:588:LYS:HE2	2.14	0.47
17:UO:5:ARG:HD3	19:UQ:336:ARG:HH21	1.79	0.47
17:UO:177:ILE:HG13	17:UO:179:ALA:H	1.78	0.47
19:UQ:714:ASP:HB2	19:UQ:774:PHE:CZ	2.50	0.47
20:UR:160:TYR:O	20:UR:163:ARG:HG2	2.14	0.47
22:UT:583:LEU:HD21	22:UT:656:LYS:NZ	2.28	0.47
22:UT:1479:ASN:HA	22:UT:1483:HIS:CD2	2.47	0.47
23:UU:719:GLU:OE2	23:UU:719:GLU:N	2.47	0.47
23:UU:934:ALA:O	23:UU:938:THR:HG22	2.14	0.47
24:UV:173:ASN:ND2	62:D3:1699:G:H5"	2.28	0.47
24:UV:248:LEU:HB3	24:UV:252:LEU:HD23	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UV:307:LYS:HA	24:UV:312:ARG:NH1	2.29	0.47
24:UV:971:LYS:HZ2	24:UV:1033:ASN:HA	1.79	0.47
26:CD:41:PHE:O	26:CD:45:THR:HG23	2.14	0.47
27:CE:214:ILE:HG22	27:CE:215:ARG:H	1.78	0.47
30:CI:93:LYS:HZ1	30:CI:95:SER:H	1.62	0.47
32:CK:407:LYS:HB2	32:CK:411:GLU:HB2	1.97	0.47
33:CL:156:LEU:O	33:CL:160:GLN:HG3	2.15	0.47
34:CM:60:THR:OG1	34:CM:80:ILE:O	2.29	0.47
35:CN:215:VAL:HG12	43:Db:77:THR:O	2.14	0.47
40:JL:201:GLN:OE1	40:JL:201:GLN:N	2.46	0.47
41:JM:173:ILE:HA	41:JM:176:THR:HG22	1.96	0.47
42:JP:93:LYS:HE2	42:JP:105:SER:OG	2.14	0.47
42:JP:188:HIS:HB2	42:JP:227:PHE:CE1	2.49	0.47
44:JJ:193:LEU:HD22	44:JJ:197:HIS:HB3	1.97	0.47
48:DH:140:VAL:HG22	48:DH:150:GLN:HG3	1.96	0.47
54:DQ:50:GLU:O	54:DQ:54:LEU:HG	2.14	0.47
55:DS:64:GLU:HG2	55:DS:65:GLU:N	2.28	0.47
62:D3:234:G:C6	62:D3:235:G:C5	3.03	0.47
62:D3:892:A:H2'	62:D3:893:U:C6	2.49	0.47
63:D4:96:C:H2'	63:D4:97:C:H6	1.77	0.47
75:EN:504:THR:O	75:EN:508:GLY:N	2.35	0.47
3:UA:285:ARG:HG2	3:UA:297:GLN:HG3	1.95	0.47
6:UD:49:LEU:HD13	6:UD:348:VAL:HG23	1.96	0.47
8:UF:199:ARG:HG2	8:UF:203:MET:HE2	1.97	0.47
12:UJ:250:SER:HB3	12:UJ:253:CYS:SG	2.55	0.47
12:UJ:303:PHE:HA	12:UJ:306:LEU:CD2	2.44	0.47
12:UJ:1744:ILE:O	12:UJ:1748:VAL:HG23	2.13	0.47
13:UK:116:LYS:O	13:UK:119:GLU:HG3	2.13	0.47
14:UL:129:PHE:HB3	14:UL:136:LEU:HD13	1.94	0.47
15:UM:149:SER:C	15:UM:150:LEU:HD12	2.39	0.47
15:UM:235:LYS:NZ	15:UM:273:GLU:O	2.47	0.47
15:UM:791:ARG:HH22	32:CK:493:GLN:HE22	1.62	0.47
17:UO:209:LEU:HD22	17:UO:237:TRP:CZ3	2.49	0.47
19:UQ:177:THR:OG1	19:UQ:186:GLU:HB3	2.13	0.47
19:UQ:473:LEU:HB3	19:UQ:530:LYS:NZ	2.28	0.47
22:UT:311:ILE:O	22:UT:315:LEU:HD23	2.15	0.47
22:UT:614:GLN:OE1	22:UT:614:GLN:N	2.37	0.47
22:UT:680:GLY:O	22:UT:684:THR:HG23	2.15	0.47
22:UT:1324:ILE:HG23	22:UT:1325:LEU:HD12	1.97	0.47
22:UT:1421:LEU:O	22:UT:1425:VAL:HG23	2.14	0.47
22:UT:1685:SER:O	22:UT:1689:VAL:HG23	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UV:99:LYS:NZ	24:UV:501:ASN:O	2.37	0.47
24:UV:228:ARG:HH21	24:UV:296:ILE:H	1.62	0.47
24:UV:1100:VAL:HG22	24:UV:1234:PHE:HD1	1.79	0.47
31:CJ:91:THR:HA	31:CJ:117:LEU:O	2.15	0.47
33:CL:125:LEU:HD21	33:CL:899:VAL:HG11	1.97	0.47
33:CL:168:LEU:HD11	33:CL:226:PHE:CD2	2.49	0.47
34:CM:301:MET:HE1	34:CM:311:LEU:HD12	1.96	0.47
42:JP:44:ALA:O	42:JP:48:THR:HG23	2.14	0.47
47:DG:52:ILE:HG23	47:DG:109:LEU:HD11	1.95	0.47
49:DI:170:SER:O	49:DI:170:SER:OG	2.29	0.47
51:DL:11:ARG:HG2	51:DL:11:ARG:HH11	1.78	0.47
51:DL:96:LYS:HG3	62:D3:373:G:H5'	1.97	0.47
55:DS:43:SER:HA	55:DS:46:VAL:HG22	1.97	0.47
62:D3:1752:U:H2'	62:D3:1753:A:H8	1.79	0.47
2:DA:187:LYS:O	2:DA:192:VAL:HG12	2.15	0.47
3:UA:19:ASN:OD1	3:UA:20:ILE:N	2.47	0.47
4:UB:600:LEU:O	4:UB:675:TYR:OH	2.33	0.47
4:UB:656:ALA:HB2	21:US:464:TRP:O	2.14	0.47
4:UB:678:PHE:HB3	4:UB:681:PRO:HD2	1.96	0.47
5:UC:596:THR:O	41:JM:137:LYS:HG3	2.15	0.47
6:UD:375:VAL:HG11	6:UD:742:LEU:HD11	1.95	0.47
7:UE:175:ILE:HG13	7:UE:176:GLU:H	1.80	0.47
7:UE:437:VAL:HG12	7:UE:440:ILE:HB	1.97	0.47
9:UG:196:LEU:HD23	9:UG:196:LEU:H	1.80	0.47
10:UH:664:LYS:O	10:UH:667:GLU:HG3	2.14	0.47
12:UJ:1361:VAL:HG13	12:UJ:1362:LEU:HD22	1.95	0.47
12:UJ:1548:PHE:CZ	12:UJ:1579:PHE:HE1	2.32	0.47
12:UJ:1664:LYS:HE2	63:D4:145:U:H5'	1.96	0.47
13:UK:49:LYS:HA	13:UK:52:ARG:NH1	2.29	0.47
14:UL:26:ILE:HD11	14:UL:42:ILE:HD11	1.96	0.47
14:UL:261:PHE:CD1	14:UL:272:PHE:HB3	2.46	0.47
14:UL:450:ARG:NH1	62:D3:1657:U:H5'	2.30	0.47
14:UL:888:ARG:HH22	15:UM:807:ASP:HB2	1.79	0.47
20:UR:306:ASN:HD21	20:UR:308:ASN:HB2	1.79	0.47
22:UT:499:PRO:O	22:UT:503:ARG:NE	2.42	0.47
22:UT:524:LYS:CE	22:UT:556:ARG:HB3	2.44	0.47
22:UT:571:LEU:HA	22:UT:574:LEU:CD2	2.44	0.47
22:UT:792:HIS:C	22:UT:794:VAL:N	2.72	0.47
22:UT:1221:ILE:O	22:UT:1225:ILE:HG23	2.14	0.47
23:UU:217:VAL:CG2	23:UU:220:ILE:HD12	2.45	0.47
23:UU:274:ILE:HG13	23:UU:286:VAL:HG23	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UU:774:ARG:HH21	53:DO:52:ARG:HH11	1.61	0.47
24:UV:104:LYS:HA	24:UV:107:ILE:HD12	1.96	0.47
24:UV:400:LEU:O	24:UV:412:LEU:HB2	2.14	0.47
27:CE:277:SER:HA	27:CE:293:GLU:HG3	1.97	0.47
29:CH:401:SER:O	29:CH:417:SER:OG	2.26	0.47
31:CJ:188:HIS:NE2	31:CJ:218:SER:HB2	2.29	0.47
33:CL:27:ASN:OD1	33:CL:29:LYS:HB2	2.14	0.47
34:CM:289:VAL:HG21	34:CM:311:LEU:HD11	1.97	0.47
34:CM:365:LYS:HG2	34:CM:366:ILE:N	2.29	0.47
36:JD:539:ARG:NH1	36:JD:540:ALA:HA	2.30	0.47
36:JD:763:VAL:HG13	36:JD:764:ALA:N	2.29	0.47
36:JD:1050:LYS:HE3	36:JD:1057:ASN:ND2	2.21	0.47
37:JF:36:LYS:HB3	37:JF:173:THR:HG23	1.97	0.47
37:JF:96:LEU:HD11	37:JF:137:PHE:CE2	2.49	0.47
43:Db:8:LEU:HG	57:DW:62:VAL:HG11	1.95	0.47
44:JJ:129:ARG:HH21	44:JJ:131:ASN:CG	2.22	0.47
45:DE:189:LEU:C	45:DE:189:LEU:HD12	2.39	0.47
47:DG:173:PRO:HA	62:D3:66:U:H5'	1.96	0.47
48:DH:124:LYS:HD3	48:DH:124:LYS:HA	1.66	0.47
62:D3:1112:G:C6	62:D3:1113:A:C5	3.02	0.47
74:EK:723:THR:O	74:EK:726:LEU:CB	2.63	0.47
75:EN:793:SER:O	75:EN:797:VAL:N	2.43	0.47
3:UA:168:LEU:HD22	3:UA:191:ARG:O	2.15	0.47
3:UA:585:TYR:CD1	3:UA:592:ILE:HG12	2.49	0.47
1:CB:195:TYR:HD2	1:CB:218:ILE:CG2	2.27	0.47
1:CB:236:MET:HE2	1:CB:236:MET:HB3	1.66	0.47
4:UB:650:VAL:O	4:UB:653:SER:OG	2.30	0.47
6:UD:347:LEU:HD23	6:UD:347:LEU:H	1.79	0.47
7:UE:469:ILE:HG22	7:UE:508:ILE:HB	1.95	0.47
10:UH:305:VAL:HA	10:UH:311:VAL:HA	1.96	0.47
10:UH:679:ILE:HG13	11:UI:483:LYS:HE3	1.95	0.47
12:UJ:377:ARG:NH1	12:UJ:414:LEU:HD11	2.30	0.47
12:UJ:490:ARG:NH1	12:UJ:491:TYR:OH	2.48	0.47
14:UL:17:ILE:HG23	14:UL:52:TRP:CH2	2.49	0.47
14:UL:187:LYS:HD3	14:UL:196:CYS:SG	2.54	0.47
14:UL:857:LEU:O	14:UL:860:ILE:HG22	2.13	0.47
15:UM:767:HIS:HB3	15:UM:772:LEU:HD11	1.96	0.47
17:UO:390:ARG:HG3	17:UO:394:GLN:HE22	1.80	0.47
19:UQ:335:PRO:HD3	61:D2:87:C:C5	2.50	0.47
19:UQ:637:THR:HG23	19:UQ:639:LYS:HB2	1.96	0.47
19:UQ:768:TRP:HB3	19:UQ:774:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UR:264:LEU:HD12	20:UR:300:PHE:CE1	2.49	0.47
22:UT:472:ASP:OD1	22:UT:473:SER:N	2.48	0.47
22:UT:1272:PHE:HE2	22:UT:1350:THR:HG1	1.58	0.47
22:UT:2273:ILE:HD12	22:UT:2273:ILE:H	1.79	0.47
23:UU:228:GLY:HA2	23:UU:251:ILE:HD11	1.95	0.47
24:UV:134:ILE:HA	24:UV:137:GLU:OE1	2.14	0.47
24:UV:951:PRO:HG3	24:UV:960:LYS:HD2	1.97	0.47
27:CE:176:GLU:HA	27:CE:179:THR:HG22	1.96	0.47
28:CF:95:ARG:HD3	63:D4:79:G:N7	2.28	0.47
29:CH:72:GLU:HA	29:CH:75:LYS:NZ	2.30	0.47
33:CL:961:PHE:O	33:CL:976:ILE:HD11	2.14	0.47
35:CN:88:LEU:HB2	35:CN:125:LEU:HB2	1.96	0.47
37:JF:100:LEU:HD13	37:JF:130:ILE:HB	1.97	0.47
41:JM:54:GLU:HA	41:JM:57:THR:HG22	1.95	0.47
58:DX:31:LYS:HG2	58:DX:36:THR:OG1	2.15	0.47
61:D2:22:A:H2'	61:D2:23:G:C8	2.49	0.47
75:EN:242:LEU:O	75:EN:246:LEU:N	2.47	0.47
2:DA:122:GLU:HG2	2:DA:140:ILE:HG22	1.97	0.47
2:DA:129:THR:OG1	2:DA:130:SER:N	2.48	0.47
3:UA:349:ASN:ND2	3:UA:390:VAL:O	2.48	0.47
1:CB:86:VAL:HG12	1:CB:101:GLY:HA3	1.95	0.47
4:UB:58:PHE:HE2	31:CJ:176:ILE:CD1	2.28	0.47
6:UD:451:PHE:CE2	6:UD:464:LYS:HB3	2.49	0.47
7:UE:140:PHE:CE1	7:UE:178:LYS:HE2	2.43	0.47
8:UF:372:ARG:NH1	8:UF:372:ARG:HB2	2.29	0.47
10:UH:120:LEU:O	10:UH:133:THR:N	2.44	0.47
12:UJ:47:PHE:O	12:UJ:50:GLU:HG2	2.15	0.47
12:UJ:81:LEU:HD12	12:UJ:86:GLN:NE2	2.20	0.47
12:UJ:1380:LEU:CD2	12:UJ:1403:LEU:HD11	2.42	0.47
12:UJ:1525:GLU:OE2	12:UJ:1529:HIS:NE2	2.48	0.47
13:UK:190:LEU:O	13:UK:194:LYS:HG2	2.15	0.47
14:UL:145:ILE:HG13	14:UL:166:ILE:HG12	1.96	0.47
14:UL:182:LYS:O	14:UL:206:GLU:HG3	2.13	0.47
14:UL:232:ASP:OD2	14:UL:234:GLU:HB2	2.15	0.47
15:UM:224:ASP:HB2	15:UM:230:LYS:NZ	2.27	0.47
15:UM:265:ALA:HA	15:UM:290:ILE:HB	1.96	0.47
17:UO:86:SER:HB2	17:UO:129:VAL:HA	1.96	0.47
17:UO:156:ASN:HD21	17:UO:159:GLU:HB3	1.80	0.47
19:UQ:554:SER:OG	61:D2:7:A:N3	2.48	0.47
20:UR:426:VAL:HG21	20:UR:455:ILE:HG21	1.97	0.47
20:UR:440:ASN:C	20:UR:440:ASN:ND2	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:874:LEU:CD2	22:UT:885:ARG:HG2	2.44	0.47
22:UT:904:PHE:HB2	22:UT:911:GLN:O	2.15	0.47
22:UT:1399:LEU:O	22:UT:1403:ARG:HD3	2.15	0.47
22:UT:1776:LEU:O	22:UT:1779:VAL:C	2.58	0.47
22:UT:2184:ALA:O	22:UT:2188:ILE:HG13	2.15	0.47
22:UT:2205:LEU:O	22:UT:2208:SER:OG	2.23	0.47
23:UU:837:LEU:HA	23:UU:840:PHE:CD2	2.47	0.47
24:UV:498:MET:HE2	24:UV:510:ILE:HG13	1.96	0.47
24:UV:534:GLY:N	24:UV:605:GLY:O	2.47	0.47
24:UV:744:MET:HG3	24:UV:813:GLU:HG2	1.97	0.47
24:UV:974:PRO:HB3	24:UV:1024:PHE:CD1	2.50	0.47
26:CD:174:ILE:HD11	26:CD:295:LYS:HG2	1.96	0.47
26:CD:229:LEU:HD23	26:CD:229:LEU:HA	1.79	0.47
27:CE:4:VAL:HG23	27:CE:88:ILE:HB	1.97	0.47
29:CH:399:GLU:HA	29:CH:419:ASN:OD1	2.14	0.47
30:CI:93:LYS:NZ	30:CI:95:SER:H	2.12	0.47
30:CI:110:ARG:O	30:CI:114:ILE:HG12	2.14	0.47
31:CJ:138:ASP:OD1	31:CJ:138:ASP:N	2.46	0.47
31:CJ:141:VAL:HG12	31:CJ:153:THR:HB	1.96	0.47
33:CL:51:GLU:OE2	33:CL:54:LEU:HD12	2.14	0.47
33:CL:107:VAL:O	33:CL:114:ARG:HB2	2.14	0.47
33:CL:819:GLU:HA	33:CL:889:LEU:O	2.14	0.47
33:CL:899:VAL:HG12	33:CL:913:ILE:HA	1.97	0.47
34:CM:46:LYS:N	34:CM:49:GLU:OE1	2.47	0.47
35:CN:207:VAL:HG22	35:CN:213:THR:HG22	1.97	0.47
35:CN:259:ARG:HH21	35:CN:262:VAL:HG21	1.79	0.47
36:JD:1013:MET:HE2	36:JD:1013:MET:HB2	1.84	0.47
36:JD:1045:LEU:HA	36:JD:1048:ILE:HD12	1.97	0.47
37:JF:93:HIS:ND1	37:JF:137:PHE:HD2	2.11	0.47
41:JM:131:ASP:OD1	41:JM:132:PRO:HD2	2.14	0.47
41:JM:197:LYS:HB2	41:JM:197:LYS:HE3	1.66	0.47
45:DE:222:LEU:HD12	45:DE:222:LEU:HA	1.70	0.47
47:DG:31:ARG:HB3	47:DG:31:ARG:HH11	1.80	0.47
47:DG:47:GLY:HA3	47:DG:118:GLU:OE2	2.15	0.47
47:DG:94:ARG:HD2	62:D3:407:A:OP1	2.15	0.47
47:DG:136:LYS:HD3	62:D3:168:A:H4'	1.97	0.47
48:DH:129:LEU:HD21	48:DH:172:VAL:HG11	1.97	0.47
60:Dc:44:VAL:HG21	60:Dc:48:VAL:HG11	1.97	0.47
62:D3:82:U:H2'	62:D3:83:G:C8	2.49	0.47
62:D3:235:G:O6	62:D3:236:A:N6	2.48	0.47
62:D3:502:U:H2'	62:D3:503:G:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:D3:1752:U:H2'	62:D3:1753:A:C8	2.50	0.47
63:D4:113:G:N2	63:D4:256:G:N3	2.62	0.47
3:UA:13:THR:HG21	3:UA:16:ARG:HH12	1.80	0.47
3:UA:714:PRO:HB2	3:UA:717:LEU:HG	1.96	0.47
1:CB:162:LEU:HD21	1:CB:164:ILE:HB	1.96	0.47
4:UB:572:LEU:HD23	4:UB:667:LEU:HB3	1.96	0.47
6:UD:231:VAL:HG11	6:UD:257:ASP:OD2	2.15	0.47
6:UD:595:ASN:N	6:UD:610:VAL:O	2.48	0.47
10:UH:594:SER:O	10:UH:597:GLN:HG3	2.15	0.47
12:UJ:378:TYR:CD1	19:UQ:857:PHE:HA	2.50	0.47
12:UJ:1566:ILE:HG21	12:UJ:1571:ARG:HG3	1.97	0.47
14:UL:200:HIS:CD2	14:UL:242:LEU:HD13	2.49	0.47
17:UO:51:HIS:CE1	17:UO:313:GLN:NE2	2.83	0.47
17:UO:90:ARG:NH2	17:UO:137:ASN:HB3	2.30	0.47
19:UQ:26:SER:O	19:UQ:28:VAL:HG23	2.14	0.47
19:UQ:196:VAL:HA	19:UQ:211:MET:O	2.15	0.47
20:UR:242:ASN:HB2	20:UR:586:VAL:H	1.79	0.47
20:UR:408:CYS:SG	20:UR:460:VAL:HG12	2.55	0.47
21:US:228:HIS:O	21:US:231:SER:OG	2.26	0.47
21:US:393:SER:O	21:US:397:THR:HG23	2.14	0.47
22:UT:234:ILE:HA	22:UT:237:THR:HG22	1.97	0.47
22:UT:286:ALA:HB3	22:UT:291:LEU:HD21	1.96	0.47
22:UT:733:VAL:HG23	22:UT:736:LEU:HB3	1.97	0.47
22:UT:980:ASN:ND2	22:UT:985:ASN:OD1	2.47	0.47
22:UT:1083:TYR:CE2	22:UT:1087:VAL:HG21	2.49	0.47
22:UT:1724:ASN:HA	22:UT:1729:ALA:HB3	1.96	0.47
22:UT:2149:LEU:HD13	22:UT:2160:LEU:HB3	1.97	0.47
24:UV:519:ASP:OD2	24:UV:614:ARG:NH1	2.48	0.47
28:CG:39:GLU:O	28:CG:43:THR:HG22	2.14	0.47
29:CH:158:THR:HG21	29:CH:240:LEU:HA	1.97	0.47
30:CI:5:LEU:HD12	30:CI:10:GLN:HG3	1.96	0.47
33:CL:298:VAL:HG12	33:CL:793:PHE:CE1	2.46	0.47
33:CL:893:ASN:HD21	58:DX:98:GLU:HB2	1.79	0.47
34:CM:51:SER:OG	34:CM:99:PHE:HZ	1.98	0.47
36:JD:477:ILE:HA	36:JD:496:VAL:HG21	1.97	0.47
36:JD:1042:ARG:HH22	36:JD:1064:ASN:HB3	1.79	0.47
36:JD:1092:VAL:HG11	36:JD:1217:PHE:CE2	2.36	0.47
40:JL:75:LEU:HD22	40:JL:81:VAL:HG21	1.95	0.47
42:JP:59:VAL:CG1	42:JP:374:LEU:HD12	2.45	0.47
53:DO:29:HIS:CE1	53:DO:38:THR:HB	2.49	0.47
66:EC:166:TYR:O	66:EC:169:THR:N	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:110:ASN:ND2	1:CA:142:ARG:HD2	2.29	0.47
3:UA:55:ARG:HH11	3:UA:55:ARG:HG3	1.80	0.47
4:UB:745:LYS:O	4:UB:749:LYS:HG2	2.15	0.47
6:UD:31:MET:CE	6:UD:752:LEU:HG	2.40	0.47
7:UE:281:ILE:HG12	7:UE:328:VAL:HB	1.97	0.47
10:UH:668:ILE:O	10:UH:671:ARG:HD3	2.14	0.47
11:UI:446:TRP:HZ2	11:UI:492:ILE:HD12	1.80	0.47
13:UK:4:LEU:HD23	58:DX:88:PRO:HB2	1.96	0.47
13:UK:191:ASP:OD1	13:UK:192:LYS:N	2.47	0.47
14:UL:494:ASP:HB2	14:UL:496:THR:OG1	2.14	0.47
15:UM:673:MET:HE2	15:UM:693:ARG:HG2	1.97	0.47
17:UO:371:GLU:H	17:UO:371:GLU:CD	2.19	0.47
19:UQ:437:THR:HG1	19:UQ:706:HIS:HD1	1.58	0.47
19:UQ:645:GLU:HG3	19:UQ:647:THR:HG23	1.97	0.47
19:UQ:656:ASP:N	19:UQ:656:ASP:OD1	2.48	0.47
20:UR:321:MET:HE3	20:UR:321:MET:HB2	1.77	0.47
22:UT:194:GLU:O	22:UT:197:SER:HB3	2.14	0.47
22:UT:227:ASN:HA	22:UT:230:GLU:OE2	2.14	0.47
22:UT:418:GLN:O	22:UT:422:LYS:HE2	2.15	0.47
22:UT:1075:TRP:C	22:UT:1079:MET:HG3	2.40	0.47
22:UT:1427:ASN:O	22:UT:1427:ASN:ND2	2.38	0.47
22:UT:1505:ASN:O	22:UT:1509:ILE:HD12	2.15	0.47
22:UT:1559:LEU:HD11	22:UT:1587:LYS:NZ	2.30	0.47
23:UU:253:SER:C	23:UU:254:LEU:HD22	2.40	0.47
23:UU:518:VAL:HG21	23:UU:558:PHE:CZ	2.50	0.47
23:UU:561:ALA:HB1	23:UU:588:ILE:HG21	1.96	0.47
25:UX:70:ASN:OD1	25:UX:157:ASP:HB2	2.15	0.47
26:CD:102:ASP:OD2	26:CD:105:LEU:N	2.48	0.47
28:CG:32:GLN:HE21	28:CG:105:ASN:CB	2.19	0.47
29:CH:474:TRP:HB2	29:CH:492:TRP:CZ3	2.50	0.47
33:CL:625:TRP:HH2	34:CM:284:SER:CB	2.28	0.47
34:CM:161:LEU:HB2	34:CM:237:LYS:HB2	1.97	0.47
44:JJ:97:ARG:NH1	53:DO:115:ILE:HD11	2.30	0.47
48:DH:123:ASP:OD1	48:DH:124:LYS:N	2.47	0.47
55:DS:49:LYS:HD3	55:DS:79:TYR:HB3	1.96	0.47
62:D3:647:G:C2	62:D3:688:G:C2	3.03	0.47
62:D3:692:C:H2'	62:D3:693:U:C6	2.49	0.47
62:D3:1113:A:H61	63:D4:11:U:H3	1.63	0.47
1:CA:144:TRP:CE3	1:CA:152:ALA:HA	2.50	0.47
1:CA:182:SER:HB2	1:CA:214:ARG:HH12	1.80	0.47
1:CA:293:LEU:HD22	1:CA:298:ILE:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DA:25:THR:HG23	15:UM:216:ARG:CZ	2.45	0.47
3:UA:84:PHE:O	3:UA:87:ARG:N	2.47	0.47
3:UA:219:GLU:HB3	3:UA:251:THR:OG1	2.15	0.47
3:UA:286:LEU:HD21	3:UA:317:LEU:HD11	1.97	0.47
1:CB:233:LEU:HD13	27:CE:144:ALA:HB2	1.97	0.47
4:UB:700:LEU:HD23	4:UB:700:LEU:H	1.79	0.47
6:UD:197:LYS:C	6:UD:199:ASP:H	2.21	0.47
8:UF:15:MET:HE3	8:UF:29:VAL:HG12	1.96	0.47
8:UF:125:SER:HB3	8:UF:128:LYS:HB2	1.97	0.47
10:UH:558:CYS:H	10:UH:585:ARG:HH22	1.63	0.47
12:UJ:1742:GLU:OE2	29:CH:59:PRO:HD2	2.14	0.47
15:UM:107:ILE:HG21	15:UM:149:SER:HA	1.97	0.47
15:UM:178:VAL:HG23	44:JJ:71:VAL:HG23	1.97	0.47
17:UO:99:GLY:HA2	17:UO:105:VAL:HG12	1.97	0.47
17:UO:213:GLN:CD	17:UO:231:GLY:HA3	2.39	0.47
17:UO:262:GLU:HG2	17:UO:263:ASN:CG	2.40	0.47
17:UO:411:LYS:HB3	17:UO:448:LYS:NZ	2.30	0.47
21:US:341:LEU:CD1	21:US:362:MET:HE1	2.45	0.47
22:UT:1043:GLU:HG3	22:UT:1044:GLU:OE2	2.14	0.47
22:UT:1344:TRP:CE3	22:UT:1347:LEU:HD11	2.50	0.47
24:UV:402:ASN:C	24:UV:410:LYS:HE3	2.40	0.47
24:UV:523:TYR:HD2	24:UV:616:LYS:CG	2.27	0.47
24:UV:539:LEU:O	24:UV:543:LEU:N	2.43	0.47
24:UV:1217:GLU:HA	24:UV:1220:PHE:CD2	2.49	0.47
25:UX:100:ASP:HB2	25:UX:130:CYS:SG	2.55	0.47
27:CE:361:ARG:NH1	63:D4:84:U:OP2	2.48	0.47
29:CH:149:PHE:CE1	29:CH:562:GLY:HA3	2.50	0.47
31:CJ:172:MET:O	31:CJ:176:ILE:HG13	2.14	0.47
33:CL:249:PHE:HZ	33:CL:801:VAL:HG22	1.80	0.47
36:JD:874:VAL:HG12	36:JD:878:LYS:NZ	2.30	0.47
36:JD:1002:ASP:CG	36:JD:1169:THR:HG1	2.22	0.47
36:JD:1017:PRO:O	36:JD:1021:LYS:HB2	2.15	0.47
37:JF:214:ASP:OD2	37:JF:224:LYS:HE2	2.14	0.47
47:DG:21:GLU:HA	47:DG:24:ILE:HB	1.97	0.47
47:DG:59:GLN:NE2	62:D3:418:G:H1'	2.30	0.47
48:DH:123:ASP:O	48:DH:127:GLU:HG3	2.14	0.47
54:DQ:73:GLY:N	54:DQ:76:SER:OG	2.47	0.47
55:DS:31:ALA:O	55:DS:34:THR:HG22	2.15	0.47
61:D2:464:G:N2	63:D4:53:U:H3	2.12	0.47
62:D3:1146:G:H2'	62:D3:1147:A:C8	2.50	0.47
62:D3:1500:C:H2'	62:D3:1501:C:C6	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:EJ:259:ALA:O	73:EJ:264:GLY:N	2.44	0.47
75:EN:93:VAL:O	75:EN:113:VAL:N	2.43	0.47
1:CA:85:LYS:HZ3	41:JM:151:THR:HG22	1.79	0.46
1:CA:321:MET:C	1:CA:323:SER:H	2.23	0.46
3:UA:791:HIS:CD2	23:UU:716:ILE:HG13	2.50	0.46
1:CB:103:GLU:HA	13:UK:194:LYS:NZ	2.30	0.46
4:UB:500:PHE:O	4:UB:504:ILE:HG12	2.14	0.46
4:UB:650:VAL:HG13	4:UB:651:TRP:CD1	2.50	0.46
6:UD:202:ILE:HG22	6:UD:244:VAL:HG11	1.97	0.46
7:UE:80:MET:HE1	7:UE:86:TRP:CD2	2.50	0.46
9:UG:213:TRP:NE1	9:UG:215:LYS:HE2	2.30	0.46
9:UG:301:TRP:CE2	9:UG:308:GLN:HB3	2.50	0.46
11:UI:454:LEU:HD13	11:UI:458:TRP:CZ2	2.50	0.46
13:UK:64:TYR:CE2	33:CL:1080:LYS:HE2	2.49	0.46
14:UL:156:LEU:H	14:UL:156:LEU:HD12	1.80	0.46
14:UL:212:VAL:HG22	14:UL:217:LEU:HB2	1.97	0.46
15:UM:464:LYS:HB2	15:UM:486:THR:HG22	1.96	0.46
15:UM:615:GLY:C	15:UM:642:GLN:HE22	2.23	0.46
20:UR:429:TYR:HB3	20:UR:431:GLU:OE1	2.15	0.46
22:UT:1122:LEU:O	22:UT:1127:PHE:HD1	1.98	0.46
22:UT:1276:ASP:OD2	22:UT:1276:ASP:N	2.47	0.46
24:UV:141:TRP:HE1	24:UV:144:LYS:HG3	1.80	0.46
28:CF:40:ALA:O	28:CF:43:THR:HG23	2.15	0.46
31:CJ:250:VAL:HG22	31:CJ:251:GLY:N	2.29	0.46
32:CK:427:SER:O	32:CK:430:LEU:N	2.48	0.46
32:CK:514:ALA:O	32:CK:515:MET:HE2	2.14	0.46
34:CM:97:GLY:HA3	34:CM:128:ALA:O	2.15	0.46
34:CM:119:LYS:HG2	34:CM:165:GLU:HG2	1.98	0.46
36:JD:1149:PRO:HG3	36:JD:1172:ASP:HB2	1.97	0.46
44:JJ:93:LYS:N	44:JJ:143:PRO:HB3	2.30	0.46
52:DN:4:MET:HE2	52:DN:5:HIS:CD2	2.50	0.46
54:DQ:58:ASP:OD2	54:DQ:59:LYS:HG3	2.14	0.46
54:DQ:71:GLY:N	62:D3:1483:A:OP1	2.38	0.46
62:D3:681:U:O4	62:D3:682:C:N4	2.47	0.46
9:UG:254:GLY:HA2	9:UG:277:VAL:HG23	1.98	0.46
9:UG:288:TYR:HB3	9:UG:345:LEU:HD12	1.97	0.46
10:UH:670:GLU:O	10:UH:673:THR:OG1	2.28	0.46
12:UJ:1650:SER:O	12:UJ:1654:GLN:HG2	2.15	0.46
14:UL:436:CYS:SG	14:UL:437:LYS:N	2.88	0.46
15:UM:36:VAL:HG22	15:UM:37:LEU:H	1.80	0.46
15:UM:265:ALA:HB2	15:UM:288:LEU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UM:679:THR:HG21	15:UM:723:GLU:HB2	1.97	0.46
17:UO:129:VAL:HB	17:UO:131:LYS:NZ	2.31	0.46
17:UO:255:VAL:HA	17:UO:276:SER:HA	1.96	0.46
18:UP:208:ARG:CD	18:UP:210:ALA:HB3	2.45	0.46
20:UR:261:PRO:O	20:UR:262:LEU:HD12	2.14	0.46
22:UT:104:GLN:HB3	22:UT:105:PRO:HD3	1.96	0.46
22:UT:647:ALA:HB1	22:UT:651:LYS:HZ1	1.79	0.46
22:UT:793:PHE:CD2	22:UT:844:VAL:HB	2.50	0.46
22:UT:866:GLN:HE22	22:UT:931:GLY:HA3	1.80	0.46
22:UT:1122:LEU:HD23	22:UT:1129:THR:OG1	2.15	0.46
22:UT:1237:GLU:HG2	22:UT:1238:ASN:N	2.31	0.46
24:UV:557:THR:OG1	24:UV:560:ASN:HB2	2.15	0.46
26:CD:20:VAL:HG22	26:CD:48:ILE:HD11	1.96	0.46
27:CE:348:VAL:HG12	27:CE:359:ILE:HG23	1.96	0.46
27:CE:359:ILE:HA	27:CE:362:VAL:HG12	1.97	0.46
30:CI:122:GLU:H	30:CI:122:GLU:CD	2.23	0.46
33:CL:181:SER:HB3	62:D3:529:A:OP1	2.15	0.46
33:CL:242:PRO:HB3	33:CL:278:THR:O	2.15	0.46
34:CM:47:ASP:OD1	34:CM:48:TYR:N	2.47	0.46
34:CM:47:ASP:OD2	34:CM:93:SER:OG	2.25	0.46
35:CN:209:GLU:HG2	35:CN:210:ASP:N	2.30	0.46
36:JD:410:VAL:HG22	36:JD:579:PRO:HG2	1.97	0.46
37:JG:116:THR:HG22	37:JG:118:ARG:H	1.80	0.46
41:JM:50:SER:O	41:JM:53:GLN:HG3	2.15	0.46
41:JM:51:LYS:O	41:JM:54:GLU:HG3	2.14	0.46
44:JJ:71:VAL:HG22	44:JJ:81:PHE:CE1	2.51	0.46
48:DH:126:LEU:HD13	48:DH:173:TYR:CE1	2.50	0.46
49:DI:121:LEU:HD23	49:DI:121:LEU:HA	1.79	0.46
51:DL:11:ARG:HG2	51:DL:11:ARG:NH1	2.31	0.46
54:DQ:93:HIS:HA	54:DQ:97:VAL:HG22	1.97	0.46
62:D3:505:A:H61	62:D3:586:G:HO2'	1.60	0.46
62:D3:647:G:N2	62:D3:687:G:N2	2.63	0.46
62:D3:1663:G:C6	62:D3:1664:C:C4	3.03	0.46
63:D4:72:C:H2'	63:D4:73:A:C8	2.45	0.46
65:EB:256:MET:O	66:EC:196:LEU:N	2.45	0.46
1:CA:123:ILE:HB	1:CA:141:TYR:HB2	1.98	0.46
2:DA:55:LYS:HD2	2:DA:56:SER:N	2.31	0.46
2:DA:129:THR:CG2	2:DA:133:TYR:HB2	2.45	0.46
2:DA:239:GLU:HG3	24:UV:659:LYS:HZ3	1.81	0.46
3:UA:11:LEU:HB2	3:UA:701:LEU:HB3	1.97	0.46
3:UA:162:LEU:HD21	3:UA:172:ILE:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UA:467:ASP:CG	3:UA:468:ALA:H	2.19	0.46
3:UA:800:LYS:HG3	23:UU:928:PHE:CE2	2.50	0.46
6:UD:285:CYS:SG	6:UD:336:ILE:N	2.88	0.46
6:UD:434:SER:OG	6:UD:439:VAL:HB	2.16	0.46
6:UD:489:CYS:HB2	6:UD:534:LEU:CD1	2.46	0.46
6:UD:586:THR:O	6:UD:589:ASN:N	2.48	0.46
6:UD:742:LEU:HD21	6:UD:757:ARG:HE	1.80	0.46
7:UE:281:ILE:HB	7:UE:291:ILE:HD11	1.97	0.46
9:UG:74:LEU:HD22	9:UG:404:PRO:HG2	1.98	0.46
14:UL:8:PHE:HB3	14:UL:686:GLU:HB3	1.98	0.46
14:UL:98:TYR:CE1	14:UL:104:LYS:HE2	2.50	0.46
14:UL:200:HIS:CD2	14:UL:242:LEU:HD22	2.51	0.46
14:UL:823:VAL:HG22	60:Dc:16:LEU:HD23	1.97	0.46
15:UM:249:LEU:HG	15:UM:259:TYR:HD2	1.81	0.46
15:UM:384:TYR:OH	15:UM:422:CYS:SG	2.74	0.46
15:UM:414:VAL:O	15:UM:428:ALA:HB3	2.15	0.46
15:UM:580:ARG:HB2	15:UM:593:CYS:CB	2.45	0.46
17:UO:105:VAL:HG12	17:UO:127:THR:HG21	1.97	0.46
21:US:428:THR:O	21:US:432:VAL:HG23	2.15	0.46
22:UT:22:ARG:NH2	22:UT:145:SER:OG	2.49	0.46
22:UT:884:TYR:HE2	22:UT:917:ASP:HB3	1.80	0.46
22:UT:1609:ARG:HG3	22:UT:1609:ARG:NH1	2.30	0.46
31:CJ:287:LYS:HD2	31:CJ:287:LYS:HA	1.66	0.46
33:CL:879:THR:HG22	33:CL:880:TYR:H	1.79	0.46
34:CM:22:VAL:HG13	34:CM:106:LEU:HD11	1.98	0.46
35:CN:66:HIS:HB3	35:CN:158:TRP:CZ2	2.50	0.46
37:JG:179:THR:HB	37:JG:224:LYS:HG2	1.98	0.46
41:JM:119:ARG:HG2	41:JM:119:ARG:HH21	1.80	0.46
50:DJ:51:LYS:HB2	50:DJ:51:LYS:HE2	1.70	0.46
51:DL:88:ARG:O	51:DL:104:HIS:HA	2.16	0.46
53:DO:34:SER:O	53:DO:36:LYS:N	2.49	0.46
58:DX:26:GLU:OE1	58:DX:27:ASN:N	2.48	0.46
62:D3:23:G:O2'	62:D3:24:U:H5'	2.16	0.46
62:D3:982:U:H2'	62:D3:983:A:C8	2.50	0.46
62:D3:1100:G:H2'	62:D3:1100:G:N3	2.30	0.46
1:CA:184:VAL:HA	1:CA:187:VAL:HG12	1.97	0.46
3:UA:297:GLN:C	3:UA:298:LEU:HD12	2.40	0.46
3:UA:582:THR:O	3:UA:583:ILE:HD13	2.14	0.46
4:UB:652:LYS:HA	4:UB:691:LEU:HD11	1.97	0.46
5:UC:577:LYS:HB2	5:UC:577:LYS:HE3	1.65	0.46
6:UD:298:ALA:HB2	6:UD:336:ILE:HD11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:422:LEU:HD11	6:UD:449:LYS:HD2	1.97	0.46
6:UD:565:ARG:CG	12:UJ:635:TYR:H	2.28	0.46
7:UE:344:ASP:OD2	7:UE:348:LYS:NZ	2.48	0.46
8:UF:286:ILE:HD11	8:UF:308:THR:HG21	1.97	0.46
9:UG:373:PHE:CZ	9:UG:392:VAL:HG21	2.49	0.46
12:UJ:1553:ARG:O	12:UJ:1557:ASP:CB	2.61	0.46
14:UL:8:PHE:HB3	14:UL:686:GLU:HA	1.96	0.46
15:UM:194:ARG:HD3	15:UM:216:ARG:NH1	2.31	0.46
15:UM:491:GLU:H	15:UM:491:GLU:CD	2.22	0.46
16:UN:765:VAL:O	16:UN:769:GLN:HG2	2.16	0.46
19:UQ:22:LEU:HD22	19:UQ:369:TYR:CE2	2.51	0.46
22:UT:1766:PHE:O	22:UT:1769:LEU:N	2.41	0.46
22:UT:1843:GLU:O	22:UT:1847:LEU:HG	2.14	0.46
22:UT:2032:SER:OG	22:UT:2035:ILE:HB	2.16	0.46
22:UT:2061:PHE:CD2	22:UT:2098:LEU:HD11	2.50	0.46
22:UT:2162:LEU:HD22	22:UT:2163:ARG:HD2	1.98	0.46
22:UT:2167:VAL:O	22:UT:2170:LYS:HB2	2.15	0.46
24:UV:870:ALA:O	24:UV:875:LYS:NZ	2.49	0.46
24:UV:1187:LYS:HD3	39:JI:1470:GLY:O	2.16	0.46
26:CD:96:ILE:HG23	26:CD:116:VAL:HG23	1.97	0.46
27:CE:313:PRO:HG2	27:CE:316:THR:HG23	1.98	0.46
28:CG:62:GLU:HA	28:CG:65:LEU:CB	2.45	0.46
31:CJ:83:ILE:CD1	32:CK:384:ARG:HH21	2.28	0.46
32:CK:408:SER:HA	44:JJ:223:ARG:NH2	2.29	0.46
33:CL:159:ALA:HB1	33:CL:165:PRO:HD2	1.97	0.46
34:CM:215:VAL:HG12	34:CM:216:LEU:HD23	1.96	0.46
37:JG:53:HIS:ND1	37:JG:68:LEU:HD11	2.30	0.46
46:DF:44:ASN:HB2	54:DQ:46:PHE:CE2	2.50	0.46
47:DG:180:THR:HG22	47:DG:182:GLN:H	1.80	0.46
50:DJ:88:GLU:O	50:DJ:91:LYS:HG3	2.16	0.46
54:DQ:99:GLU:HA	54:DQ:102:LYS:HB3	1.96	0.46
56:DT:50:ALA:HA	56:DT:53:TRP:CD1	2.50	0.46
63:D4:202:G:C5	63:D4:248:G:C6	3.03	0.46
67:ED:93:GLY:HA2	67:ED:213:LEU:HA	1.98	0.46
1:CA:249:GLN:O	1:CA:253:ILE:HG12	2.15	0.46
6:UD:185:ARG:NH2	28:CF:124:LEU:O	2.47	0.46
7:UE:234:GLU:CD	7:UE:235:LEU:H	2.23	0.46
7:UE:362:ARG:HB3	19:UQ:593:ASN:HD22	1.81	0.46
7:UE:490:ARG:HD3	17:UO:16:LEU:HD23	1.97	0.46
8:UF:186:VAL:HG21	8:UF:319:TYR:HE1	1.81	0.46
12:UJ:1418:ASN:O	12:UJ:1422:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UM:26:SER:OG	15:UM:28:ASN:OD1	2.28	0.46
15:UM:70:THR:HG21	15:UM:114:SER:HB2	1.96	0.46
16:UN:767:GLU:OE1	16:UN:767:GLU:N	2.42	0.46
17:UO:16:LEU:O	17:UO:19:GLN:NE2	2.48	0.46
17:UO:123:SER:H	17:UO:150:ARG:NH1	2.13	0.46
19:UQ:252:LEU:HD21	61:D2:81:A:H3'	1.97	0.46
20:UR:375:VAL:C	20:UR:376:LEU:HD23	2.41	0.46
20:UR:400:ILE:HD11	20:UR:404:ILE:HG12	1.96	0.46
20:UR:516:THR:HG21	20:UR:536:ALA:HB3	1.97	0.46
21:US:258:GLU:OE1	21:US:291:THR:OG1	2.23	0.46
22:UT:81:LEU:HD23	22:UT:117:LEU:HD21	1.98	0.46
22:UT:524:LYS:HD3	22:UT:557:GLY:CA	2.46	0.46
22:UT:1326:SER:HA	22:UT:1329:LYS:CE	2.44	0.46
22:UT:1368:SER:OG	22:UT:1416:GLU:OE2	2.27	0.46
22:UT:1482:SER:HA	22:UT:1486:ILE:HD12	1.98	0.46
23:UU:217:VAL:HG21	23:UU:220:ILE:HD12	1.97	0.46
23:UU:594:SER:OG	23:UU:596:GLU:HG2	2.16	0.46
24:UV:856:THR:O	24:UV:859:ASP:HB2	2.15	0.46
24:UV:1103:ARG:NH2	24:UV:1104:THR:O	2.48	0.46
25:UX:121:ARG:HD3	42:JP:66:HIS:O	2.15	0.46
26:CD:209:LEU:HD22	26:CD:250:ARG:HD3	1.98	0.46
27:CE:285:PRO:HG3	27:CE:382:ASP:HA	1.96	0.46
27:CE:315:SER:HB3	63:D4:325:C:C5	2.50	0.46
32:CK:485:SER:O	32:CK:488:SER:N	2.45	0.46
35:CN:8:ALA:O	35:CN:9:MET:HE2	2.16	0.46
37:JF:104:ILE:HD13	37:JF:242:CYS:HB2	1.98	0.46
37:JG:42:ILE:O	37:JG:203:CYS:HA	2.16	0.46
45:DE:15:PRO:HG2	45:DE:18:TRP:CE2	2.50	0.46
55:DS:45:LEU:HD11	55:DS:85:PHE:HE2	1.80	0.46
62:D3:38:C:H2'	62:D3:39:A:O4'	2.16	0.46
62:D3:1501:C:H2'	62:D3:1502:G:C8	2.50	0.46
74:EK:771:ASN:O	74:EK:775:ASN:HA	2.16	0.46
1:CA:87:VAL:HG22	41:JM:149:ILE:HG22	1.97	0.46
3:UA:70:LEU:HB2	3:UA:84:PHE:CZ	2.50	0.46
3:UA:450:LEU:HG	3:UA:475:PRO:HB3	1.96	0.46
3:UA:469:LEU:HD21	3:UA:502:ILE:HG21	1.98	0.46
4:UB:766:ARG:NH1	32:CK:348:ASP:HA	2.30	0.46
6:UD:156:LEU:H	6:UD:156:LEU:HD23	1.81	0.46
7:UE:364:THR:HG23	19:UQ:547:VAL:HG22	1.96	0.46
8:UF:269:ILE:HG13	8:UF:270:ALA:N	2.31	0.46
9:UG:238:MET:HG3	9:UG:249:LEU:CD2	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UG:381:LEU:HD12	9:UG:390:LEU:HD12	1.97	0.46
12:UJ:667:LYS:HZ1	12:UJ:702:TRP:HH2	1.64	0.46
17:UO:2:SER:HB2	19:UQ:334:LEU:HD12	1.98	0.46
17:UO:62:ARG:HH12	17:UO:76:THR:HA	1.80	0.46
17:UO:280:HIS:HB2	17:UO:297:LYS:HZ3	1.80	0.46
19:UQ:200:ASN:ND2	19:UQ:262:MET:O	2.49	0.46
19:UQ:499:LYS:HG2	19:UQ:500:PHE:N	2.30	0.46
19:UQ:557:ILE:HA	19:UQ:577:ASP:OD1	2.15	0.46
19:UQ:632:ILE:H	19:UQ:651:SER:HG	1.61	0.46
20:UR:490:PHE:CE1	20:UR:512:ASP:HB3	2.51	0.46
22:UT:333:TRP:CH2	22:UT:369:SER:HA	2.50	0.46
22:UT:416:PHE:HA	22:UT:419:LEU:HG	1.98	0.46
22:UT:862:ASN:HB3	22:UT:864:ASP:OD1	2.15	0.46
22:UT:918:GLU:HB2	22:UT:922:MET:HE2	1.98	0.46
22:UT:1334:ASP:HA	22:UT:1335:GLY:HA3	1.63	0.46
22:UT:1921:LEU:O	22:UT:1924:LEU:O	2.34	0.46
23:UU:117:ASN:HB2	23:UU:119:GLU:OE2	2.15	0.46
23:UU:373:ARG:HB3	23:UU:411:PHE:O	2.14	0.46
24:UV:193:ALA:HB2	24:UV:360:VAL:HG12	1.98	0.46
24:UV:298:PHE:HB3	24:UV:302:VAL:HG21	1.96	0.46
24:UV:396:LEU:HD22	24:UV:425:VAL:HG23	1.98	0.46
24:UV:517:ARG:NH1	24:UV:517:ARG:HB2	2.30	0.46
25:UX:152:ILE:HD13	25:UX:152:ILE:HG21	1.67	0.46
29:CH:192:LYS:C	29:CH:194:LEU:H	2.22	0.46
29:CH:290:LYS:HZ3	29:CH:290:LYS:HB2	1.81	0.46
29:CH:467:LYS:HA	29:CH:470:LEU:HD23	1.98	0.46
31:CJ:119:ARG:NH1	31:CJ:122:TYR:O	2.45	0.46
33:CL:722:LYS:O	33:CL:725:LYS:HG3	2.16	0.46
34:CM:233:GLU:HG2	34:CM:234:ASN:N	2.31	0.46
36:JD:113:ILE:HG21	40:JL:301:ASN:OD1	2.16	0.46
36:JD:750:PRO:HG3	36:JD:756:LEU:HD22	1.97	0.46
36:JD:761:THR:HG22	36:JD:762:ASN:N	2.25	0.46
36:JD:1036:GLU:O	36:JD:1039:VAL:HG22	2.15	0.46
37:JG:67:LEU:HD23	37:JG:138:SER:HB2	1.98	0.46
37:JG:96:LEU:HD21	37:JG:137:PHE:CE1	2.50	0.46
40:JL:71:THR:O	40:JL:75:LEU:HD23	2.16	0.46
40:JL:270:LYS:H	40:JL:270:LYS:HD2	1.79	0.46
41:JM:168:GLU:HA	41:JM:170:LYS:NZ	2.30	0.46
46:DF:58:LEU:HD11	46:DF:168:VAL:HG23	1.98	0.46
49:DI:16:ALA:HB2	62:D3:354:C:OP1	2.15	0.46
51:DL:104:HIS:HE1	62:D3:349:U:OP1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DQ:46:PHE:HA	54:DQ:49:TYR:HB2	1.97	0.46
55:DS:30:TYR:HE2	62:D3:1539:G:N1	2.13	0.46
55:DS:68:ARG:HA	55:DS:71:GLN:HG2	1.98	0.46
62:D3:196:G:C4	62:D3:197:A:C8	3.04	0.46
62:D3:1075:C:H2'	62:D3:1076:A:O4'	2.16	0.46
6:UD:588:ASP:OD1	6:UD:588:ASP:N	2.45	0.46
8:UF:200:ARG:HA	8:UF:203:MET:HE3	1.96	0.46
12:UJ:417:LYS:HA	12:UJ:420:LYS:HG2	1.97	0.46
12:UJ:715:HIS:HA	12:UJ:718:ARG:NH2	2.31	0.46
12:UJ:745:TYR:HD2	12:UJ:748:LEU:HB2	1.80	0.46
12:UJ:1439:SER:O	12:UJ:1442:SER:OG	2.25	0.46
13:UK:37:ARG:HH12	33:CL:996:LEU:HD22	1.81	0.46
14:UL:396:SER:HB3	14:UL:408:THR:OG1	2.16	0.46
14:UL:481:LEU:HD23	14:UL:481:LEU:H	1.81	0.46
15:UM:16:TYR:CD1	15:UM:309:GLN:HB3	2.50	0.46
15:UM:53:LEU:HB3	15:UM:54:HIS:ND1	2.30	0.46
15:UM:719:ILE:HG23	15:UM:758:ARG:HE	1.81	0.46
16:UN:324:ALA:H	26:CD:87:PRO:HA	1.80	0.46
17:UO:436:GLU:HA	17:UO:439:LEU:HB2	1.97	0.46
17:UO:475:GLU:O	17:UO:481:GLN:NE2	2.48	0.46
19:UQ:259:VAL:HA	19:UQ:275:PHE:HA	1.98	0.46
19:UQ:284:SER:O	19:UQ:288:LEU:CA	2.64	0.46
19:UQ:434:GLN:HB2	19:UQ:436:PHE:CE2	2.51	0.46
19:UQ:631:GLN:HA	19:UQ:651:SER:O	2.15	0.46
20:UR:564:LYS:HB3	20:UR:582:GLU:HG2	1.97	0.46
21:US:176:ILE:HG13	21:US:177:ILE:N	2.30	0.46
22:UT:270:ARG:O	22:UT:273:SER:OG	2.25	0.46
22:UT:394:LEU:HD11	22:UT:435:PHE:CD1	2.51	0.46
22:UT:749:LYS:HG3	22:UT:756:SER:HB2	1.98	0.46
22:UT:1153:ALA:O	22:UT:1157:ILE:HG12	2.16	0.46
22:UT:2132:LYS:HG2	22:UT:2133:LEU:H	1.80	0.46
23:UU:138:PHE:CE2	23:UU:156:LYS:HG3	2.51	0.46
23:UU:202:SER:OG	23:UU:203:ASN:N	2.49	0.46
23:UU:280:ARG:HH22	23:UU:334:ASP:C	2.23	0.46
24:UV:125:GLU:O	24:UV:128:LEU:HG	2.16	0.46
24:UV:274:LYS:HG2	24:UV:286:TYR:CE2	2.51	0.46
24:UV:777:ASP:O	24:UV:780:GLN:NE2	2.49	0.46
27:CE:212:MET:SD	27:CE:218:ALA:HB2	2.56	0.46
29:CH:304:ILE:HD13	29:CH:338:THR:HG21	1.97	0.46
30:CI:16:VAL:HG23	30:CI:16:VAL:O	2.16	0.46
33:CL:118:LEU:HD11	33:CL:245:LEU:CD2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CN:97:GLU:N	35:CN:97:GLU:OE2	2.49	0.46
36:JD:30:GLN:HE21	62:D3:317:C:H5"	1.78	0.46
36:JD:537:ARG:O	36:JD:542:LEU:HB2	2.16	0.46
36:JD:553:LEU:HD23	36:JD:553:LEU:H	1.81	0.46
36:JD:572:THR:HG22	36:JD:575:PRO:HG2	1.97	0.46
36:JD:928:VAL:HG22	36:JD:1042:ARG:HB2	1.97	0.46
37:JF:69:ASN:OD1	37:JF:72:ASP:N	2.47	0.46
37:JF:182:PHE:CE2	37:JF:232:LEU:HB2	2.50	0.46
40:JL:188:ILE:HB	40:JL:206:VAL:HG13	1.96	0.46
40:JL:233:ARG:NH2	62:D3:1776:A:O3'	2.49	0.46
42:JP:388:THR:HG22	42:JP:392:ASN:HD21	1.81	0.46
44:JJ:157:ASP:OD2	53:DO:103:ARG:NH2	2.33	0.46
45:DE:23:LEU:HD11	50:DJ:6:ARG:HD3	1.97	0.46
47:DG:31:ARG:HG2	47:DG:101:ILE:HG12	1.97	0.46
51:DL:67:ARG:O	51:DL:127:GLN:HB3	2.15	0.46
60:Dc:60:GLU:OE1	60:Dc:60:GLU:N	2.49	0.46
62:D3:199:G:C2	62:D3:200:A:C5	3.04	0.46
62:D3:656:G:O2'	62:D3:657:U:O5'	2.31	0.46
62:D3:973:A:H2'	62:D3:974:A:H8	1.79	0.46
65:EB:163:LYS:HA	65:EB:186:PRO:HA	1.98	0.46
75:EN:153:PHE:O	75:EN:157:ALA:N	2.49	0.46
3:UA:62:ASP:OD2	3:UA:103:LYS:HA	2.16	0.46
3:UA:469:LEU:HD23	3:UA:500:TRP:CD2	2.50	0.46
4:UB:47:ALA:O	4:UB:50:GLU:HG3	2.15	0.46
4:UB:651:TRP:HB3	4:UB:657:PHE:CD1	2.51	0.46
4:UB:731:ASP:HB3	4:UB:734:ARG:HB2	1.98	0.46
6:UD:235:LYS:C	6:UD:235:LYS:HD3	2.41	0.46
6:UD:269:PHE:HD1	20:UR:446:ARG:HG2	1.81	0.46
6:UD:587:ALA:C	6:UD:589:ASN:H	2.24	0.46
7:UE:212:LEU:HD11	7:UE:246:VAL:HG11	1.98	0.46
10:UH:56:ILE:N	10:UH:71:SER:O	2.44	0.46
12:UJ:712:ASN:O	12:UJ:715:HIS:HB2	2.16	0.46
14:UL:452:GLY:HA3	14:UL:472:HIS:O	2.16	0.46
14:UL:609:LYS:HD3	14:UL:647:PHE:CD1	2.50	0.46
15:UM:53:LEU:HB3	15:UM:54:HIS:CE1	2.51	0.46
15:UM:726:GLN:O	15:UM:730:ILE:HG12	2.16	0.46
17:UO:45:ILE:HD11	17:UO:55:PHE:HD2	1.80	0.46
18:UP:188:LYS:HG3	18:UP:189:THR:HG23	1.97	0.46
19:UQ:337:LEU:HD22	19:UQ:341:ILE:HG21	1.97	0.46
22:UT:793:PHE:HD2	22:UT:844:VAL:HB	1.80	0.46
22:UT:1273:LYS:HB2	22:UT:1349:PHE:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UV:734:PHE:CE2	24:UV:755:PRO:HG3	2.51	0.46
24:UV:765:LEU:O	24:UV:914:ARG:NH1	2.49	0.46
27:CE:5:LEU:HA	27:CE:14:LEU:HD23	1.97	0.46
27:CE:11:GLY:HA2	27:CE:50:PHE:CD1	2.51	0.46
27:CE:53:ALA:O	27:CE:57:LEU:HG	2.16	0.46
27:CE:137:SER:O	27:CE:140:SER:OG	2.29	0.46
27:CE:353:GLY:O	27:CE:356:LYS:HB2	2.15	0.46
28:CF:62:GLU:HA	28:CF:65:LEU:CB	2.45	0.46
31:CJ:141:VAL:CG1	31:CJ:153:THR:HB	2.46	0.46
33:CL:124:ASP:HB3	33:CL:126:ASN:OD1	2.16	0.46
33:CL:768:GLU:OE1	33:CL:768:GLU:HA	2.16	0.46
33:CL:1067:LEU:HD23	33:CL:1067:LEU:H	1.80	0.46
34:CM:339:LEU:HD23	34:CM:352:ALA:HA	1.97	0.46
36:JD:867:PHE:CD1	36:JD:870:PRO:HB3	2.50	0.46
36:JD:1093:ALA:HB1	36:JD:1118:ILE:HG12	1.97	0.46
37:JF:93:HIS:O	37:JF:97:LEU:HD23	2.16	0.46
37:JG:84:ILE:H	37:JG:84:ILE:HD12	1.80	0.46
44:JJ:158:PHE:HB2	44:JJ:175:LEU:HG	1.97	0.46
45:DE:247:SER:O	45:DE:247:SER:OG	2.33	0.46
52:DN:109:LYS:HD2	62:D3:975:C:H5”	1.98	0.46
53:DO:105:LEU:CD2	53:DO:112:ILE:HD11	2.45	0.46
61:D2:88:U:N3	61:D2:89:C:N3	2.64	0.46
62:D3:142:G:C2	62:D3:266:A:C4	3.04	0.46
62:D3:629:U:OP2	62:D3:969:C:N4	2.46	0.46
62:D3:970:A:H5’	62:D3:971:A:OP2	2.16	0.46
62:D3:1022:C:H41	62:D3:1023:A:N6	2.13	0.46
62:D3:1673:G:H2’	62:D3:1674:C:C6	2.50	0.46
62:D3:1682:U:O2’	62:D3:1683:C:H5’	2.15	0.46
67:ED:387:ASP:O	67:ED:391:ARG:N	2.49	0.46
68:EE:190:GLN:O	68:EE:194:LEU:N	2.46	0.46
1:CA:323:SER:O	1:CA:323:SER:OG	2.30	0.46
3:UA:422:PHE:CE1	62:D3:1633:A:C4	3.04	0.46
6:UD:150:ASN:CG	6:UD:155:LYS:H	2.23	0.46
6:UD:310:ASN:OD1	6:UD:310:ASN:N	2.47	0.46
6:UD:658:ASP:HB3	6:UD:661:VAL:HG12	1.98	0.46
7:UE:481:LEU:HD23	7:UE:484:LEU:HD12	1.98	0.46
8:UF:281:LEU:HD23	8:UF:281:LEU:HA	1.79	0.46
9:UG:194:ARG:C	9:UG:208:ALA:O	2.55	0.46
12:UJ:162:ASN:O	12:UJ:165:SER:OG	2.24	0.46
13:UK:147:THR:H	13:UK:150:LYS:HE3	1.80	0.46
14:UL:629:ASN:HD22	14:UL:643:ASP:HA	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UL:656:HIS:HB3	14:UL:682:ARG:NH2	2.31	0.46
19:UQ:46:ILE:O	19:UQ:46:ILE:HG13	2.16	0.46
19:UQ:153:ILE:HB	19:UQ:176:LEU:HD11	1.98	0.46
19:UQ:271:LEU:HB2	19:UQ:285:LEU:HD21	1.98	0.46
19:UQ:574:LEU:HG	19:UQ:584:PHE:CD1	2.43	0.46
21:US:373:ALA:HA	21:US:376:VAL:HG12	1.97	0.46
22:UT:70:ILE:O	22:UT:73:ASP:N	2.49	0.46
22:UT:376:LEU:H	22:UT:376:LEU:HD23	1.80	0.46
22:UT:434:LEU:HD22	22:UT:750:TYR:CE1	2.51	0.46
22:UT:519:VAL:O	22:UT:523:LEU:HG	2.16	0.46
22:UT:1529:ARG:O	22:UT:1532:SER:OG	2.29	0.46
22:UT:1593:THR:O	22:UT:1595:SER:O	2.33	0.46
22:UT:2081:GLU:OE1	22:UT:2081:GLU:HA	2.16	0.46
22:UT:2341:GLY:O	22:UT:2345:ARG:HG2	2.16	0.46
23:UU:307:GLN:NE2	27:CE:422:THR:O	2.49	0.46
24:UV:316:ARG:HE	62:D3:1697:G:H4'	1.80	0.46
27:CE:299:LEU:HD22	27:CE:320:LEU:HD23	1.96	0.46
28:CG:40:ALA:O	28:CG:43:THR:HG23	2.15	0.46
29:CH:448:PHE:O	29:CH:451:ILE:HG22	2.15	0.46
33:CL:855:GLN:NE2	33:CL:1032:LEU:HB3	2.31	0.46
35:CN:12:GLY:O	35:CN:40:LYS:HD3	2.16	0.46
36:JD:114:ILE:O	36:JD:117:LEU:HG	2.16	0.46
36:JD:531:MET:SD	36:JD:532:LEU:N	2.89	0.46
36:JD:1174:ALA:O	36:JD:1177:PRO:HD2	2.16	0.46
45:DE:43:PRO:HA	45:DE:82:TYR:O	2.16	0.46
48:DH:97:ARG:HG3	62:D3:694:U:H5"	1.97	0.46
62:D3:287:G:N3	62:D3:288:A:C8	2.84	0.46
62:D3:575:C:O2'	62:D3:576:G:P	2.74	0.46
62:D3:693:U:OP1	62:D3:694:U:O2'	2.29	0.46
62:D3:1575:G:C2	62:D3:1576:A:C4	3.04	0.46
3:UA:688:PRO:O	3:UA:822:ARG:HD2	2.16	0.46
1:CB:111:MET:HE1	1:CB:216:ASN:HD22	1.81	0.46
1:CB:227:PRO:HG3	1:CB:256:ASN:OD1	2.16	0.46
6:UD:155:LYS:CD	6:UD:167:LEU:HD21	2.44	0.46
6:UD:338:ALA:HA	6:UD:347:LEU:HA	1.98	0.46
6:UD:402:TRP:NE1	6:UD:416:LEU:HD12	2.30	0.46
12:UJ:8:LEU:HA	12:UJ:11:VAL:HG12	1.97	0.46
12:UJ:527:LEU:HD12	12:UJ:566:CYS:SG	2.56	0.46
12:UJ:1425:VAL:O	12:UJ:1429:SER:HB3	2.15	0.46
13:UK:93:MET:N	13:UK:93:MET:SD	2.88	0.46
19:UQ:111:THR:HG23	19:UQ:113:ASN:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:UQ:396:ILE:HG21	19:UQ:779:ILE:HB	1.98	0.46
19:UQ:714:ASP:HB3	19:UQ:717:THR:HG22	1.98	0.46
19:UQ:773:ASP:OD1	19:UQ:773:ASP:N	2.49	0.46
20:UR:207:ALA:HA	20:UR:210:LYS:HE3	1.98	0.46
22:UT:1114:HIS:CE1	22:UT:1156:SER:HG	2.33	0.46
23:UU:177:LEU:O	23:UU:179:LYS:HD3	2.15	0.46
24:UV:121:VAL:HG13	24:UV:189:PHE:HE1	1.81	0.46
24:UV:391:PHE:CE2	24:UV:395:ILE:HD11	2.51	0.46
24:UV:741:ILE:HG21	24:UV:753:ILE:HD11	1.98	0.46
24:UV:773:TYR:HA	24:UV:778:PHE:CG	2.51	0.46
24:UV:807:LEU:HD23	24:UV:807:LEU:HA	1.74	0.46
24:UV:1229:ASP:N	24:UV:1229:ASP:OD1	2.48	0.46
25:UX:124:ARG:HH22	57:DW:98:GLN:HE22	1.65	0.46
29:CH:218:ALA:HB2	63:D4:118:A:C5	2.51	0.46
31:CJ:109:LEU:HD22	62:D3:1159:C:N4	2.31	0.46
33:CL:105:ILE:HG13	33:CL:356:ALA:HB2	1.97	0.46
36:JD:727:ASP:HB3	36:JD:728:PRO:HD3	1.98	0.46
36:JD:841:GLU:HA	36:JD:844:ARG:HB2	1.98	0.46
36:JD:1109:ARG:O	36:JD:1110:THR:HG22	2.15	0.46
37:JG:53:HIS:CD2	37:JG:68:LEU:HD21	2.50	0.46
41:JM:144:PRO:HG2	41:JM:147:PHE:CD2	2.48	0.46
44:JJ:208:LYS:HB2	44:JJ:208:LYS:HE2	1.76	0.46
50:DJ:113:VAL:HG13	50:DJ:118:LEU:HB2	1.97	0.46
51:DL:131:ILE:HB	51:DL:135:VAL:HG13	1.97	0.46
61:D2:20:C:H2'	61:D2:21:A:H8	1.80	0.46
63:D4:82:G:N2	63:D4:327:G:N3	2.64	0.46
1:CA:128:PRO:HB3	63:D4:90:C:H5'	1.98	0.45
1:CA:169:LYS:N	1:CA:238:ASP:OD2	2.36	0.45
3:UA:30:LEU:HD22	3:UA:39:VAL:HG22	1.97	0.45
4:UB:482:GLN:HE22	4:UB:524:LEU:HD13	1.80	0.45
4:UB:495:ASN:HD22	4:UB:618:THR:HG22	1.80	0.45
8:UF:126:TYR:CE1	8:UF:130:HIS:NE2	2.84	0.45
8:UF:172:LEU:HD22	8:UF:182:TRP:CE2	2.50	0.45
9:UG:170:GLN:HG3	9:UG:175:PHE:CE1	2.51	0.45
10:UH:650:LEU:HD11	11:UI:506:LEU:HD22	1.98	0.45
11:UI:454:LEU:HA	11:UI:457:LYS:HG3	1.98	0.45
12:UJ:377:ARG:HH12	12:UJ:414:LEU:HD11	1.82	0.45
14:UL:7:ARG:HE	14:UL:651:GLN:NE2	2.15	0.45
14:UL:836:ILE:HG23	14:UL:853:ILE:HD11	1.97	0.45
15:UM:72:ASP:O	15:UM:74:GLN:N	2.47	0.45
15:UM:430:TYR:HE2	15:UM:466:TRP:HB3	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UM:734:GLU:O	15:UM:737:ILE:HG22	2.15	0.45
17:UO:65:ILE:O	17:UO:74:ILE:N	2.35	0.45
20:UR:242:ASN:CG	20:UR:586:VAL:HG12	2.41	0.45
22:UT:982:HIS:H	22:UT:983:GLN:CD	2.24	0.45
22:UT:1035:TYR:O	22:UT:1039:THR:OG1	2.32	0.45
22:UT:1325:LEU:HD22	22:UT:2435:GLN:CG	2.43	0.45
22:UT:1379:ASN:HB2	22:UT:1429:LYS:HE3	1.97	0.45
22:UT:1714:SER:O	22:UT:1717:ILE:N	2.48	0.45
22:UT:2162:LEU:HD13	22:UT:2163:ARG:NH1	2.30	0.45
23:UU:765:GLU:OE2	44:JJ:273:ARG:NH1	2.49	0.45
23:UU:817:PHE:CE1	23:UU:833:LEU:HD11	2.52	0.45
24:UV:686:LEU:HD12	24:UV:696:ILE:HD13	1.98	0.45
24:UV:844:THR:O	24:UV:847:GLY:N	2.49	0.45
27:CE:316:THR:HG22	63:D4:324:U:O2'	2.16	0.45
30:CI:77:LEU:HD21	32:CK:441:TYR:OH	2.17	0.45
36:JD:485:GLU:HB2	36:JD:488:LYS:HZ1	1.81	0.45
36:JD:1001:SER:HB3	36:JD:1004:PHE:CD2	2.50	0.45
37:JF:179:THR:OG1	37:JF:221:VAL:HG11	2.15	0.45
37:JG:96:LEU:HD13	37:JG:130:ILE:HG21	1.97	0.45
40:JL:90:MET:HA	40:JL:93:GLU:HG3	1.98	0.45
45:DE:67:GLN:CD	45:DE:69:HIS:HE2	2.23	0.45
54:DQ:15:SER:HB3	62:D3:1608:U:OP1	2.16	0.45
62:D3:73:U:C4'	62:D3:74:U:H5'	2.46	0.45
62:D3:158:U:O2'	62:D3:159:U:H3'	2.16	0.45
62:D3:477:A:N6	62:D3:539:G:N7	2.64	0.45
1:CA:222:GLU:OE2	1:CA:229:LYS:HE2	2.15	0.45
3:UA:2:LYS:HB2	3:UA:2:LYS:HE2	1.77	0.45
3:UA:168:LEU:HD12	9:UG:236:MET:HE2	1.97	0.45
3:UA:462:THR:HG22	3:UA:464:GLN:HG2	1.98	0.45
3:UA:730:LEU:HD23	3:UA:730:LEU:HA	1.83	0.45
3:UA:846:TYR:HD1	23:UU:909:LEU:HD12	1.81	0.45
4:UB:707:PRO:HA	37:JG:25:PRO:HB3	1.98	0.45
4:UB:743:GLN:O	4:UB:747:GLU:OE1	2.34	0.45
6:UD:209:ARG:HB2	6:UD:211:ARG:HH12	1.81	0.45
7:UE:366:GLY:HA3	19:UQ:550:PRO:HA	1.99	0.45
9:UG:74:LEU:HB2	9:UG:404:PRO:HG2	1.98	0.45
9:UG:529:ARG:O	9:UG:532:GLN:HG3	2.16	0.45
12:UJ:63:GLU:HA	12:UJ:64:PRO:HD3	1.80	0.45
12:UJ:78:SER:HA	12:UJ:81:LEU:HD22	1.97	0.45
12:UJ:381:ARG:HH21	12:UJ:414:LEU:CD1	2.29	0.45
14:UL:389:GLY:O	14:UL:415:LYS:HE3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UL:476:ILE:HA	14:UL:492:SER:HA	1.97	0.45
14:UL:502:PHE:CD2	14:UL:522:LEU:HD11	2.51	0.45
15:UM:105:SER:HA	15:UM:121:GLY:CA	2.45	0.45
17:UO:480:LEU:HA	17:UO:483:LEU:HD12	1.98	0.45
19:UQ:88:ILE:HA	19:UQ:111:THR:HA	1.98	0.45
19:UQ:92:LEU:HB2	19:UQ:108:THR:HB	1.97	0.45
19:UQ:655:LEU:HD13	19:UQ:659:ILE:HD11	1.99	0.45
19:UQ:664:LEU:HD23	19:UQ:664:LEU:H	1.82	0.45
20:UR:137:ILE:HD11	20:UR:155:ILE:HG22	1.97	0.45
20:UR:164:LEU:CD2	23:UU:175:THR:HG22	2.46	0.45
20:UR:490:PHE:HE1	20:UR:512:ASP:HB3	1.82	0.45
21:US:281:LEU:O	21:US:286:ILE:HG12	2.17	0.45
21:US:502:ASN:OD1	21:US:503:TYR:N	2.48	0.45
22:UT:301:ASP:HA	22:UT:304:ASP:OD2	2.17	0.45
22:UT:316:LYS:HG3	22:UT:729:TRP:CE3	2.51	0.45
22:UT:500:LEU:O	22:UT:504:ILE:HG12	2.16	0.45
22:UT:655:ASP:HB3	22:UT:658:VAL:HG22	1.98	0.45
22:UT:1222:SER:O	22:UT:1225:ILE:HG12	2.16	0.45
23:UU:445:MET:O	23:UU:448:LYS:HG3	2.15	0.45
26:CD:245:SER:OG	26:CD:247:ILE:HG12	2.16	0.45
27:CE:174:ASP:CG	27:CE:269:ARG:HH21	2.23	0.45
30:CI:108:ARG:HA	30:CI:113:VAL:HG11	1.97	0.45
30:CI:114:ILE:HD13	30:CI:117:ARG:HE	1.82	0.45
31:CJ:157:PHE:C	31:CJ:159:HIS:N	2.75	0.45
33:CL:87:ARG:HH12	33:CL:99:ASN:HA	1.81	0.45
36:JD:554:LYS:C	36:JD:555:LEU:HD12	2.41	0.45
36:JD:806:ALA:HB1	36:JD:823:ARG:CZ	2.46	0.45
37:JG:70:CYS:SG	37:JG:88:ARG:HG3	2.56	0.45
43:Db:7:LEU:H	57:DW:24:GLN:HE22	1.63	0.45
47:DG:24:ILE:O	47:DG:28:PHE:HD1	1.98	0.45
48:DH:160:GLN:O	48:DH:164:TYR:HD2	2.00	0.45
50:DJ:112:GLN:O	50:DJ:116:LEU:HG	2.17	0.45
62:D3:901:G:C6	62:D3:902:G:C2	3.04	0.45
62:D3:1154:G:N2	62:D3:1155:G:C4	2.84	0.45
73:EJ:34:ASN:N	73:EJ:104:LYS:O	2.48	0.45
1:CA:104:ASP:HB2	5:UC:598:ILE:HG12	1.98	0.45
2:DA:241:GLY:HA3	24:UV:656:ARG:CG	2.47	0.45
3:UA:126:ASP:OD1	3:UA:128:ASN:N	2.49	0.45
3:UA:453:PHE:HB3	3:UA:475:PRO:HA	1.98	0.45
3:UA:575:GLU:HA	3:UA:578:LYS:HG2	1.98	0.45
3:UA:623:LEU:HD23	3:UA:677:PRO:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:122:VAL:HG23	6:UD:137:TYR:C	2.42	0.45
7:UE:168:HIS:H	7:UE:191:VAL:HG23	1.81	0.45
7:UE:217:ILE:O	7:UE:220:GLY:N	2.47	0.45
8:UF:15:MET:HE3	8:UF:29:VAL:CG1	2.46	0.45
9:UG:88:GLN:HB3	9:UG:92:LYS:NZ	2.32	0.45
10:UH:602:LEU:HD23	10:UH:603:SER:O	2.16	0.45
12:UJ:384:ILE:O	12:UJ:388:ILE:HG12	2.15	0.45
13:UK:102:GLN:HG3	13:UK:103:ASP:H	1.80	0.45
15:UM:455:LEU:HD22	15:UM:506:PHE:CZ	2.51	0.45
16:UN:295:VAL:HG21	42:JP:291:MET:SD	2.56	0.45
17:UO:256:THR:HG21	17:UO:302:VAL:O	2.17	0.45
17:UO:434:ARG:HH21	17:UO:466:VAL:HG23	1.81	0.45
18:UP:194:LYS:HE3	18:UP:199:ILE:HG13	1.98	0.45
19:UQ:252:LEU:HD23	19:UQ:256:THR:HG21	1.98	0.45
20:UR:477:LYS:HD3	20:UR:477:LYS:HA	1.82	0.45
22:UT:74:VAL:HG21	22:UT:80:ILE:HD11	1.99	0.45
22:UT:653:LYS:C	22:UT:653:LYS:HD3	2.41	0.45
22:UT:1118:LEU:C	22:UT:1120:GLN:H	2.25	0.45
22:UT:1125:ASP:C	22:UT:1127:PHE:H	2.24	0.45
22:UT:1251:VAL:HG21	22:UT:1291:LEU:HD22	1.98	0.45
29:CH:258:ARG:HD2	29:CH:278:ASP:O	2.16	0.45
31:CJ:102:GLN:HB3	31:CJ:174:HIS:ND1	2.31	0.45
31:CJ:190:ILE:HB	31:CJ:223:THR:HA	1.98	0.45
32:CK:448:LEU:HD23	32:CK:448:LEU:HA	1.76	0.45
33:CL:36:PRO:HB3	58:DX:33:LEU:HD23	1.97	0.45
33:CL:300:GLN:HB3	33:CL:792:VAL:HG22	1.98	0.45
34:CM:251:GLN:OE1	34:CM:251:GLN:HA	2.16	0.45
36:JD:495:GLY:O	36:JD:499:ARG:HG3	2.16	0.45
36:JD:1036:GLU:OE1	36:JD:1040:LYS:NZ	2.47	0.45
37:JF:179:THR:HG21	37:JF:214:ASP:OD1	2.15	0.45
42:JP:237:SER:HB3	42:JP:247:TYR:CE1	2.48	0.45
42:JP:288:TYR:O	42:JP:298:LEU:N	2.49	0.45
42:JP:330:ARG:CZ	42:JP:342:ILE:HD12	2.46	0.45
47:DG:32:ILE:HD11	47:DG:53:SER:O	2.17	0.45
56:DT:39:THR:HA	56:DT:100:ILE:HD12	1.98	0.45
56:DT:102:ARG:NH2	62:D3:1500:C:OP1	2.47	0.45
62:D3:496:G:H2'	62:D3:497:G:H8	1.82	0.45
62:D3:985:G:C2	62:D3:986:G:C4	3.04	0.45
1:CA:280:VAL:HG22	1:CA:281:ASP:H	1.82	0.45
3:UA:340:LYS:N	3:UA:341:GLN:OE1	2.49	0.45
1:CB:176:ALA:O	1:CB:177:SER:OG	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UB:519:THR:OG1	4:UB:520:PRO:HD3	2.16	0.45
4:UB:712:THR:HA	37:JG:127:THR:O	2.17	0.45
7:UE:86:TRP:CD1	7:UE:98:LYS:HG2	2.50	0.45
7:UE:187:HIS:CG	7:UE:206:ALA:HB2	2.52	0.45
7:UE:199:ASN:N	7:UE:199:ASN:OD1	2.47	0.45
7:UE:242:ASP:OD1	7:UE:242:ASP:N	2.48	0.45
7:UE:436:THR:OG1	7:UE:438:THR:HG23	2.16	0.45
8:UF:64:ASN:HB2	8:UF:88:ILE:HG21	1.98	0.45
8:UF:275:ASP:O	8:UF:278:MET:HB3	2.16	0.45
9:UG:138:ASP:O	9:UG:140:ARG:N	2.49	0.45
14:UL:26:ILE:HG22	14:UL:27:PRO:O	2.17	0.45
14:UL:464:LEU:HD22	14:UL:467:THR:OG1	2.17	0.45
15:UM:126:ILE:HD11	15:UM:175:TRP:HZ3	1.81	0.45
17:UO:133:HIS:HD2	17:UO:136:ASP:H	1.57	0.45
17:UO:434:ARG:HD3	17:UO:434:ARG:N	2.31	0.45
18:UP:205:TRP:CE2	18:UP:208:ARG:NH1	2.84	0.45
19:UQ:424:GLN:OE1	19:UQ:428:LEU:HD23	2.17	0.45
21:US:450:GLU:HB3	21:US:456:THR:HG22	1.97	0.45
22:UT:109:LEU:HD23	22:UT:109:LEU:HA	1.81	0.45
22:UT:551:SER:O	22:UT:555:LEU:HD12	2.17	0.45
22:UT:1166:HIS:O	22:UT:1170:LEU:HD12	2.16	0.45
22:UT:1542:LYS:HB3	22:UT:1608:GLU:HG3	1.99	0.45
22:UT:1593:THR:C	22:UT:1595:SER:O	2.59	0.45
22:UT:1806:SER:HB2	22:UT:1811:ILE:HG21	1.98	0.45
22:UT:1824:MET:HA	22:UT:1824:MET:HE2	1.98	0.45
23:UU:118:VAL:HA	23:UU:132:THR:HG22	1.97	0.45
23:UU:382:LYS:C	23:UU:384:ALA:H	2.23	0.45
23:UU:463:VAL:HG23	23:UU:463:VAL:O	2.16	0.45
23:UU:595:PRO:HD3	23:UU:634:PHE:CD2	2.44	0.45
24:UV:310:PRO:O	24:UV:328:ALA:HB1	2.17	0.45
27:CE:59:GLU:O	27:CE:63:ILE:HG12	2.17	0.45
27:CE:173:LEU:HD23	27:CE:173:LEU:HA	1.79	0.45
29:CH:228:TYR:CG	29:CH:229:GLU:N	2.84	0.45
32:CK:346:GLU:OE1	32:CK:346:GLU:N	2.50	0.45
33:CL:253:THR:HG23	33:CL:267:ARG:HB3	1.99	0.45
33:CL:775:GLU:HG3	33:CL:776:GLN:N	2.31	0.45
33:CL:1105:ASP:HA	33:CL:1108:LYS:HE3	1.97	0.45
36:JD:377:GLU:HB3	36:JD:385:GLN:HE22	1.81	0.45
36:JD:1001:SER:OG	36:JD:1003:VAL:HG22	2.16	0.45
37:JG:99:LEU:O	37:JG:105:ASN:ND2	2.46	0.45
40:JL:156:GLN:OE1	62:D3:1781:A:O2'	2.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JL:222:GLU:OE1	40:JL:317:PHE:N	2.50	0.45
46:DF:146:THR:HB	46:DF:157:ARG:HB3	1.98	0.45
49:DI:25:ARG:HD3	49:DI:25:ARG:HA	1.73	0.45
50:DJ:90:LYS:HB3	50:DJ:95:TYR:CG	2.52	0.45
52:DN:87:ASP:N	52:DN:87:ASP:OD1	2.49	0.45
62:D3:146:U:C4	62:D3:167:U:C4	3.04	0.45
62:D3:327:U:H2'	62:D3:328:A:C8	2.51	0.45
62:D3:1115:U:O2'	62:D3:1116:A:OP1	2.34	0.45
62:D3:1150:G:H2'	62:D3:1151:A:H8	1.81	0.45
63:D4:143:G:HO2'	63:D4:144:G:P	2.38	0.45
67:ED:297:TYR:N	67:ED:347:ILE:O	2.49	0.45
74:EK:328:ALA:N	74:EK:386:ILE:HA	2.31	0.45
75:EN:445:ASN:O	75:EN:449:ALA:N	2.50	0.45
2:DA:150:VAL:HG12	9:UG:512:ARG:NE	2.30	0.45
3:UA:222:LYS:HA	3:UA:246:TYR:CB	2.46	0.45
3:UA:597:ASN:HA	3:UA:680:ARG:HB2	1.99	0.45
3:UA:622:ALA:O	3:UA:676:ARG:NH1	2.48	0.45
4:UB:443:LYS:HD2	4:UB:448:PHE:HD2	1.80	0.45
4:UB:617:HIS:CD2	4:UB:618:THR:HG23	2.51	0.45
4:UB:704:ASN:ND2	21:US:422:ILE:HG21	2.32	0.45
6:UD:32:ILE:HG22	6:UD:750:ASN:O	2.16	0.45
6:UD:231:VAL:HG22	6:UD:265:TRP:HH2	1.82	0.45
8:UF:84:SER:O	8:UF:87:SER:N	2.49	0.45
12:UJ:690:GLU:O	12:UJ:693:SER:OG	2.25	0.45
15:UM:355:LEU:HD23	15:UM:355:LEU:HA	1.69	0.45
16:UN:789:PRO:HG2	44:JJ:117:TYR:CZ	2.52	0.45
17:UO:263:ASN:HA	17:UO:269:GLN:OE1	2.16	0.45
17:UO:479:VAL:O	17:UO:483:LEU:HG	2.16	0.45
18:UP:181:LEU:H	18:UP:181:LEU:HD23	1.82	0.45
20:UR:511:LEU:HD21	20:UR:544:VAL:HG11	1.98	0.45
20:UR:514:LEU:HD23	20:UR:514:LEU:HA	1.82	0.45
21:US:326:LEU:HG	21:US:329:ARG:NH2	2.30	0.45
22:UT:246:THR:HG23	22:UT:290:SER:HB2	1.98	0.45
22:UT:595:LYS:O	22:UT:599:GLU:HG2	2.17	0.45
22:UT:1494:PHE:HZ	22:UT:1533:MET:HE1	1.80	0.45
22:UT:1882:ARG:HH22	62:D3:650:U:C5'	2.29	0.45
23:UU:393:LEU:H	23:UU:393:LEU:HD12	1.81	0.45
24:UV:938:ALA:O	24:UV:941:PRO:HD2	2.17	0.45
26:CD:20:VAL:HA	26:CD:48:ILE:HD13	1.97	0.45
26:CD:247:ILE:HA	26:CD:250:ARG:HG2	1.98	0.45
29:CH:181:ASN:HA	29:CH:184:ARG:HD3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CL:635:PHE:CE2	34:CM:219:LEU:HD13	2.51	0.45
33:CL:755:LYS:NZ	62:D3:434:G:O6	2.40	0.45
33:CL:810:ILE:HG13	33:CL:810:ILE:O	2.16	0.45
33:CL:879:THR:HG1	62:D3:572:C:N4	2.06	0.45
40:JL:251:LEU:HD21	40:JL:317:PHE:HD1	1.82	0.45
45:DE:151:ASP:OD2	47:DG:215:ARG:NH1	2.49	0.45
46:DF:166:ARG:HB2	60:Dc:46:GLY:HA3	1.99	0.45
48:DH:46:ILE:HD12	48:DH:60:ILE:HG12	1.99	0.45
50:DJ:78:ARG:NH2	62:D3:763:G:OP1	2.50	0.45
54:DQ:98:ASP:OD1	54:DQ:98:ASP:N	2.47	0.45
62:D3:129:U:O5'	62:D3:129:U:H6	1.99	0.45
62:D3:652:G:C2	62:D3:683:C:N3	2.85	0.45
62:D3:907:A:O2'	62:D3:998:A:OP1	2.35	0.45
62:D3:910:C:O2'	62:D3:911:U:O5'	2.34	0.45
3:UA:207:TYR:CD1	3:UA:217:VAL:HG22	2.52	0.45
5:UC:559:ARG:HH21	62:D3:545:A:H5'	1.82	0.45
7:UE:173:ILE:HG22	7:UE:180:VAL:HA	1.99	0.45
7:UE:221:MET:HG3	7:UE:222:THR:N	2.30	0.45
8:UF:313:PHE:HB3	8:UF:342:TRP:CZ2	2.52	0.45
9:UG:237:ALA:HB2	9:UG:278:ASN:O	2.17	0.45
11:UI:462:LEU:HB3	11:UI:463:LYS:HE2	1.98	0.45
12:UJ:670:LEU:HA	12:UJ:673:ASN:ND2	2.31	0.45
12:UJ:1398:VAL:O	12:UJ:1402:LEU:HG	2.16	0.45
14:UL:209:GLY:HA3	14:UL:220:THR:HG22	1.99	0.45
15:UM:89:HIS:CD2	15:UM:91:LYS:HB3	2.52	0.45
15:UM:307:SER:C	15:UM:309:GLN:H	2.24	0.45
15:UM:633:VAL:HG12	15:UM:643:PHE:CD1	2.52	0.45
15:UM:695:PHE:CZ	15:UM:755:ILE:HD12	2.52	0.45
16:UN:299:ASN:HA	16:UN:302:VAL:HG12	1.99	0.45
16:UN:763:ASP:O	16:UN:766:ALA:N	2.50	0.45
16:UN:879:ILE:HD13	42:JP:396:TYR:HB2	1.99	0.45
17:UO:54:ASP:OD1	17:UO:54:ASP:N	2.50	0.45
17:UO:421:LEU:HD21	17:UO:430:ALA:HB2	1.98	0.45
17:UO:463:VAL:O	17:UO:466:VAL:HG12	2.17	0.45
21:US:391:PRO:O	21:US:395:ILE:HG12	2.16	0.45
22:UT:589:PHE:HE1	22:UT:661:PHE:CE1	2.35	0.45
22:UT:620:SER:HA	22:UT:623:MET:CE	2.45	0.45
22:UT:1240:THR:HA	22:UT:1243:ILE:HD12	1.98	0.45
22:UT:1261:ILE:HG21	22:UT:1295:VAL:HG11	1.99	0.45
22:UT:2000:PHE:HA	22:UT:2003:LEU:HD12	1.99	0.45
23:UU:100:ILE:HD13	23:UU:149:TYR:HB2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UU:630:THR:N	23:UU:644:THR:O	2.46	0.45
23:UU:885:MET:HE2	23:UU:889:PHE:CE1	2.51	0.45
24:UV:423:LYS:O	24:UV:427:LYS:HG2	2.17	0.45
24:UV:1156:LYS:HG2	24:UV:1157:TYR:CE1	2.51	0.45
27:CE:43:LYS:NZ	27:CE:130:GLY:HA3	2.32	0.45
31:CJ:165:PHE:CD1	31:CJ:256:MET:HE2	2.51	0.45
32:CK:371:ARG:HB3	32:CK:371:ARG:CZ	2.45	0.45
32:CK:411:GLU:HA	32:CK:414:GLU:OE1	2.17	0.45
33:CL:251:ASP:OD1	33:CL:251:ASP:N	2.49	0.45
35:CN:70:PHE:O	35:CN:74:LEU:HD23	2.17	0.45
36:JD:445:VAL:HB	36:JD:489:VAL:HA	1.99	0.45
40:JL:127:SER:HB2	40:JL:153:LEU:HD22	1.99	0.45
42:JP:299:ASN:OD1	42:JP:300:VAL:N	2.49	0.45
46:DF:161:ASP:OD1	60:Dc:56:LEU:HD23	2.17	0.45
46:DF:212:LYS:O	46:DF:216:GLU:HG2	2.17	0.45
49:DI:29:LEU:HD23	49:DI:29:LEU:H	1.81	0.45
55:DS:28:ILE:HG12	55:DS:56:LYS:O	2.16	0.45
58:DX:43:PHE:CE2	58:DX:49:ALA:HB2	2.52	0.45
58:DX:69:ARG:HE	58:DX:69:ARG:HB3	1.63	0.45
62:D3:629:U:C2	62:D3:970:A:N6	2.85	0.45
62:D3:901:G:N1	62:D3:902:G:C6	2.85	0.45
75:EN:864:LYS:O	75:EN:868:ARG:N	2.38	0.45
3:UA:15:TYR:HB2	3:UA:327:LEU:HD12	1.98	0.45
3:UA:36:ARG:NH2	3:UA:53:GLU:OE1	2.49	0.45
3:UA:55:ARG:HH21	3:UA:78:ARG:NH1	2.15	0.45
3:UA:168:LEU:CD2	3:UA:193:TYR:HA	2.47	0.45
4:UB:484:ARG:HB3	4:UB:492:ALA:HB1	1.98	0.45
6:UD:242:TRP:CH2	18:UP:202:LYS:HE2	2.51	0.45
8:UF:35:LYS:HA	8:UF:35:LYS:HD2	1.60	0.45
10:UH:678:LEU:O	10:UH:681:THR:OG1	2.20	0.45
12:UJ:680:TYR:CG	12:UJ:681:ALA:N	2.85	0.45
12:UJ:800:ASP:OD1	12:UJ:801:ILE:HD12	2.17	0.45
12:UJ:1504:LEU:HD21	12:UJ:1532:SER:HB3	1.99	0.45
12:UJ:1572:LEU:HD12	12:UJ:1576:PHE:HE1	1.81	0.45
14:UL:149:ASP:O	14:UL:153:GLU:N	2.50	0.45
14:UL:386:GLU:HB3	14:UL:391:ARG:HH21	1.82	0.45
15:UM:137:THR:HG1	15:UM:138:HIS:N	2.14	0.45
15:UM:172:VAL:HG13	15:UM:193:VAL:HG21	1.99	0.45
17:UO:464:ALA:O	17:UO:467:LEU:HG	2.17	0.45
19:UQ:57:VAL:HB	19:UQ:382:LYS:HZ1	1.81	0.45
19:UQ:406:MET:HE3	19:UQ:406:MET:HB3	1.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:UQ:716:ARG:HH21	19:UQ:772:THR:N	2.14	0.45
20:UR:183:ASP:CG	23:UU:281:ARG:HH22	2.25	0.45
21:US:384:ALA:HA	21:US:387:THR:HG22	1.98	0.45
22:UT:1018:HIS:HB3	22:UT:1021:SER:OG	2.17	0.45
22:UT:1314:SER:CB	22:UT:1324:ILE:HB	2.46	0.45
22:UT:1415:SER:HA	22:UT:1418:VAL:HG12	1.99	0.45
22:UT:1624:THR:O	22:UT:1628:ILE:HG23	2.16	0.45
22:UT:1899:LEU:HD21	22:UT:1917:ILE:HD11	1.97	0.45
23:UU:237:LYS:HB3	23:UU:239:LYS:HD3	1.99	0.45
23:UU:269:SER:C	23:UU:271:GLY:H	2.24	0.45
23:UU:841:SER:O	23:UU:845:VAL:HG23	2.17	0.45
24:UV:130:LYS:HD2	24:UV:283:TYR:CE2	2.51	0.45
24:UV:229:SER:O	24:UV:232:LEU:HG	2.17	0.45
24:UV:1097:ASP:OD2	24:UV:1186:ILE:HG22	2.16	0.45
24:UV:1205:LYS:HA	35:CN:36:PHE:CD2	2.51	0.45
27:CE:43:LYS:HG3	27:CE:44:ILE:HG12	1.97	0.45
27:CE:132:SER:O	27:CE:132:SER:OG	2.35	0.45
27:CE:237:THR:HA	27:CE:240:GLU:CD	2.41	0.45
27:CE:241:VAL:O	27:CE:241:VAL:HG13	2.16	0.45
27:CE:398:LEU:O	27:CE:402:GLU:HG2	2.16	0.45
28:CF:62:GLU:HA	28:CF:65:LEU:HB3	1.98	0.45
29:CH:464:LEU:HA	29:CH:464:LEU:HD23	1.64	0.45
29:CH:535:GLU:OE2	29:CH:570:GLN:NE2	2.50	0.45
31:CJ:144:GLU:HA	31:CJ:149:PRO:HA	1.98	0.45
33:CL:799:GLU:OE2	33:CL:799:GLU:N	2.31	0.45
35:CN:92:GLU:OE1	35:CN:92:GLU:N	2.47	0.45
36:JD:1034:LEU:O	36:JD:1038:ILE:HG13	2.17	0.45
36:JD:1198:GLY:C	36:JD:1199:LEU:HD12	2.42	0.45
37:JF:44:VAL:HA	37:JF:113:TYR:O	2.17	0.45
39:JI:1613:PRO:O	39:JI:1617:HIS:N	2.42	0.45
48:DH:8:ILE:O	48:DH:42:GLN:HB3	2.16	0.45
48:DH:166:LEU:HD23	48:DH:166:LEU:HA	1.75	0.45
49:DI:41:LYS:HE3	49:DI:41:LYS:HB2	1.54	0.45
54:DQ:37:THR:C	54:DQ:45:ARG:HH12	2.24	0.45
58:DX:46:SER:OG	58:DX:47:SER:N	2.49	0.45
73:EJ:223:CYS:HA	73:EJ:286:ARG:HA	1.99	0.45
75:EN:353:PHE:O	75:EN:357:MET:N	2.42	0.45
75:EN:401:ILE:O	75:EN:405:LYS:N	2.50	0.45
75:EN:699:ALA:N	75:EN:718:ILE:O	2.48	0.45
1:CB:91:HIS:HA	13:UK:164:ASN:ND2	2.32	0.45
4:UB:689:GLU:HG2	4:UB:693:LYS:NZ	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:245:ILE:HG22	6:UD:286:LEU:HD23	1.98	0.45
6:UD:649:TRP:CH2	6:UD:743:PHE:HA	2.51	0.45
8:UF:67:ARG:HH12	8:UF:85:ASP:HB3	1.81	0.45
12:UJ:488:GLY:HA2	12:UJ:491:TYR:HD2	1.80	0.45
12:UJ:1548:PHE:HE1	12:UJ:1575:PHE:CE1	2.34	0.45
12:UJ:1617:ASN:O	12:UJ:1621:LEU:HD23	2.17	0.45
13:UK:152:PHE:CD2	13:UK:165:ARG:HD3	2.52	0.45
14:UL:403:ASN:O	14:UL:404:LYS:HE2	2.16	0.45
15:UM:397:THR:CG2	15:UM:402:TRP:HB2	2.47	0.45
17:UO:447:LEU:HA	17:UO:490:LYS:HE3	1.98	0.45
17:UO:508:LEU:HD12	17:UO:509:GLN:N	2.32	0.45
19:UQ:214:ASP:HB3	19:UQ:218:LYS:NZ	2.32	0.45
20:UR:247:SER:OG	20:UR:273:ARG:NH1	2.50	0.45
21:US:406:ILE:HG21	21:US:416:LEU:HD11	1.99	0.45
22:UT:132:LEU:HD23	22:UT:132:LEU:HA	1.66	0.45
22:UT:430:LYS:HA	22:UT:481:TRP:NE1	2.32	0.45
22:UT:626:GLU:HG2	22:UT:665:TYR:OH	2.16	0.45
22:UT:1463:GLN:HE22	22:UT:1503:ILE:N	2.14	0.45
23:UU:822:ARG:O	23:UU:826:GLN:HG2	2.17	0.45
23:UU:865:ILE:CD1	23:UU:885:MET:HE1	2.46	0.45
24:UV:490:GLU:OE1	24:UV:580:TYR:OH	2.17	0.45
26:CD:168:GLN:OE1	26:CD:298:THR:HG22	2.17	0.45
27:CE:328:ARG:O	27:CE:332:THR:HG22	2.16	0.45
28:CG:62:GLU:HA	28:CG:65:LEU:HB3	1.98	0.45
31:CJ:110:LEU:O	31:CJ:220:ARG:NH2	2.49	0.45
31:CJ:196:THR:HG23	31:CJ:198:LEU:H	1.82	0.45
33:CL:52:ARG:HD3	62:D3:436:A:OP2	2.17	0.45
33:CL:548:ASN:HB3	33:CL:551:LYS:NZ	2.32	0.45
33:CL:880:TYR:CB	58:DX:94:ASN:ND2	2.76	0.45
34:CM:314:ASN:HB3	34:CM:317:GLN:NE2	2.32	0.45
35:CN:254:LYS:NZ	52:DN:93:LYS:NZ	2.65	0.45
36:JD:1152:MET:HE3	36:JD:1170:LEU:HB3	1.99	0.45
42:JP:283:ASP:HA	43:Db:4:VAL:HG21	1.98	0.45
48:DH:152:VAL:HG23	48:DH:181:ILE:HD11	1.98	0.45
49:DI:82:VAL:HG21	49:DI:103:GLN:HG3	1.98	0.45
53:DO:90:ARG:NH1	62:D3:902:G:OP1	2.43	0.45
58:DX:38:PHE:HE1	62:D3:601:A:H4'	1.81	0.45
59:DY:27:VAL:HG21	59:DY:40:LEU:HD21	1.97	0.45
62:D3:1646:C:H2'	62:D3:1647:U:H6	1.82	0.45
63:D4:152:U:H2'	63:D4:153:C:C6	2.52	0.45
63:D4:164:C:H2'	63:D4:165:G:C8	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UA:33:VAL:O	3:UA:34:GLY:C	2.60	0.45
4:UB:482:GLN:NE2	4:UB:524:LEU:HD13	2.32	0.45
4:UB:561:ILE:HG22	4:UB:564:VAL:H	1.81	0.45
6:UD:426:GLN:NE2	18:UP:190:LEU:HG	2.32	0.45
9:UG:546:ILE:CD1	24:UV:808:LEU:HD22	2.47	0.45
10:UH:642:LEU:HD23	17:UO:510:LEU:HD13	1.99	0.45
12:UJ:361:SER:OG	12:UJ:362:LYS:HD3	2.16	0.45
13:UK:188:GLU:O	13:UK:192:LYS:HB2	2.17	0.45
14:UL:164:ASP:HB3	14:UL:182:LYS:HB3	1.98	0.45
14:UL:417:TRP:HD1	14:UL:424:CYS:HA	1.79	0.45
14:UL:429:GLU:N	14:UL:429:GLU:OE1	2.50	0.45
15:UM:333:ILE:HG22	15:UM:380:ASP:OD1	2.16	0.45
15:UM:415:TRP:CD1	15:UM:415:TRP:N	2.85	0.45
15:UM:503:ASP:C	15:UM:520:LEU:HD12	2.42	0.45
15:UM:542:CYS:SG	15:UM:583:PHE:HB3	2.57	0.45
17:UO:211:HIS:HA	17:UO:235:LYS:NZ	2.32	0.45
17:UO:375:HIS:HE2	17:UO:377:ASP:CG	2.25	0.45
21:US:329:ARG:HD2	21:US:330:PHE:N	2.32	0.45
21:US:400:PRO:HB3	21:US:493:TYR:HD2	1.82	0.45
22:UT:118:GLY:O	22:UT:120:ASP:N	2.49	0.45
22:UT:1360:GLU:C	22:UT:1362:ALA:N	2.75	0.45
22:UT:1374:PHE:CZ	22:UT:1378:ILE:HD11	2.52	0.45
23:UU:246:ILE:HD11	23:UU:276:TYR:HE2	1.82	0.45
23:UU:517:MET:HE3	23:UU:529:TYR:CD2	2.52	0.45
25:UX:156:ASN:O	25:UX:156:ASN:ND2	2.44	0.45
26:CD:332:THR:HA	26:CD:335:ILE:HG12	1.99	0.45
28:CG:110:ILE:O	28:CG:114:ILE:HG13	2.16	0.45
29:CH:284:LEU:HD11	29:CH:300:ALA:HB2	1.98	0.45
33:CL:810:ILE:HG22	33:CL:1021:LEU:HD21	1.98	0.45
33:CL:1143:ALA:O	33:CL:1147:GLU:HG2	2.16	0.45
35:CN:19:LYS:HA	35:CN:33:SER:O	2.17	0.45
36:JD:494:ASP:O	36:JD:498:LEU:HG	2.17	0.45
36:JD:523:ILE:O	36:JD:527:ILE:HG12	2.16	0.45
36:JD:626:LEU:HD13	36:JD:779:SER:HB3	1.99	0.45
36:JD:1080:LEU:O	36:JD:1084:ILE:HG12	2.17	0.45
36:JD:1091:HIS:O	36:JD:1153:LEU:HD12	2.16	0.45
37:JG:137:PHE:O	37:JG:141:MET:HG2	2.17	0.45
40:JL:41:ASN:O	40:JL:44:VAL:HG22	2.16	0.45
40:JL:264:GLU:O	40:JL:265:MET:HE2	2.17	0.45
47:DG:23:ARG:O	47:DG:26:VAL:HB	2.17	0.45
48:DH:31:SER:C	48:DH:35:LYS:HZ3	2.22	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DJ:120:LYS:N	50:DJ:124:HIS:HD2	2.10	0.45
62:D3:272:U:O2'	62:D3:273:G:O5'	2.30	0.45
62:D3:333:A:H5"	62:D3:334:G:OP2	2.16	0.45
62:D3:697:C:H2'	62:D3:698:U:C6	2.52	0.45
63:D4:157:A:OP2	63:D4:157:A:H8	1.99	0.45
1:CA:138:LYS:HE3	1:CA:138:LYS:HB3	1.74	0.45
3:UA:84:PHE:C	3:UA:86:ALA:N	2.75	0.45
3:UA:450:LEU:O	3:UA:450:LEU:HD23	2.16	0.45
1:CB:243:ASP:HA	1:CB:270:SER:OG	2.16	0.45
5:UC:567:LYS:HE2	5:UC:567:LYS:HB3	1.75	0.45
6:UD:431:CYS:SG	6:UD:442:VAL:HG12	2.57	0.45
6:UD:453:LEU:HD12	6:UD:460:LEU:HB3	1.99	0.45
7:UE:167:SER:O	7:UE:167:SER:OG	2.34	0.45
7:UE:468:THR:O	7:UE:472:LEU:HG	2.16	0.45
8:UF:272:THR:O	8:UF:276:VAL:HG22	2.17	0.45
9:UG:178:ASP:OD1	9:UG:179:HIS:N	2.42	0.45
10:UH:552:LYS:O	10:UH:556:VAL:HG22	2.17	0.45
11:UI:479:CYS:O	11:UI:482:LEU:HG	2.16	0.45
12:UJ:535:ALA:HA	12:UJ:539:LEU:HD23	1.99	0.45
14:UL:574:LEU:HD13	14:UL:593:ALA:HB3	1.99	0.45
14:UL:576:VAL:HG11	14:UL:579:ILE:HD11	1.98	0.45
15:UM:385:GLU:N	15:UM:385:GLU:OE2	2.50	0.45
15:UM:589:GLN:HG2	15:UM:603:ASP:OD1	2.17	0.45
16:UN:865:ILE:HD11	42:JP:403:ARG:NH1	2.32	0.45
19:UQ:92:LEU:HD23	19:UQ:92:LEU:HA	1.82	0.45
19:UQ:208:LEU:HD23	19:UQ:228:VAL:O	2.17	0.45
19:UQ:259:VAL:HG22	61:D2:63:G:O6	2.16	0.45
19:UQ:506:TRP:CZ3	19:UQ:571:GLN:HB2	2.50	0.45
19:UQ:681:ILE:HG13	19:UQ:688:VAL:HA	1.98	0.45
19:UQ:760:HIS:CD2	19:UQ:761:GLU:HG3	2.52	0.45
22:UT:489:SER:O	22:UT:490:LYS:HG3	2.17	0.45
22:UT:562:VAL:HG11	22:UT:607:LEU:HD23	1.98	0.45
23:UU:268:THR:CG2	23:UU:272:ASP:HB2	2.47	0.45
23:UU:362:GLN:HB3	23:UU:364:HIS:ND1	2.32	0.45
23:UU:633:LYS:O	23:UU:641:LEU:HD12	2.17	0.45
23:UU:772:SER:O	23:UU:776:GLY:HA2	2.17	0.45
25:UX:83:VAL:HG21	25:UX:124:ARG:HE	1.82	0.45
26:CD:26:ASP:CG	26:CD:123:LEU:HD11	2.42	0.45
26:CD:400:PHE:HA	26:CD:403:VAL:HG12	1.99	0.45
27:CE:28:LEU:HD13	27:CE:33:ASP:CB	2.46	0.45
29:CH:449:ASN:OD1	29:CH:450:ASP:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CJ:192:ASP:OD1	32:CK:372:ARG:NH2	2.51	0.45
31:CJ:268:ASN:C	31:CJ:270:ASP:H	2.25	0.45
32:CK:502:GLU:H	32:CK:502:GLU:CD	2.25	0.45
33:CL:14:LYS:HB2	33:CL:14:LYS:HE2	1.73	0.45
35:CN:24:LYS:HE2	35:CN:24:LYS:HB2	1.80	0.45
36:JD:532:LEU:HA	36:JD:535:CYS:SG	2.57	0.45
36:JD:823:ARG:HB3	36:JD:825:TYR:CE2	2.52	0.45
36:JD:1187:LEU:HD23	36:JD:1217:PHE:CD1	2.52	0.45
37:JF:209:MET:HG3	37:JF:212:GLY:HA3	1.98	0.45
37:JG:40:ARG:O	37:JG:201:SER:HA	2.17	0.45
42:JP:71:TYR:CE2	42:JP:88:ALA:HB2	2.52	0.45
42:JP:321:VAL:HG22	42:JP:354:VAL:HG11	1.98	0.45
42:JP:362:TYR:HH	42:JP:383:SER:HG	1.61	0.45
44:JJ:158:PHE:CD1	44:JJ:171:SER:HB2	2.52	0.45
46:DF:117:THR:HG22	46:DF:121:ILE:HD11	1.99	0.45
50:DJ:57:ARG:O	50:DJ:61:THR:HG23	2.17	0.45
50:DJ:183:ALA:HA	50:DJ:186:GLU:HG3	1.99	0.45
53:DO:38:THR:HG21	62:D3:895:G:H21	1.82	0.45
57:DW:36:LYS:HD3	57:DW:36:LYS:HA	1.85	0.45
59:DY:29:HIS:CE1	59:DY:34:ASN:H	2.34	0.45
62:D3:325:G:H2'	62:D3:326:G:H8	1.82	0.45
62:D3:686:C:H2'	62:D3:687:G:H8	1.82	0.45
72:EI:117:ALA:H	72:EI:126:VAL:HA	1.82	0.45
3:UA:162:LEU:HG	3:UA:199:PHE:CE2	2.52	0.44
3:UA:409:GLY:HA2	3:UA:431:ILE:O	2.17	0.44
3:UA:422:PHE:CZ	62:D3:1633:A:C2	3.06	0.44
5:UC:610:ASN:HB3	25:UX:133:LYS:HG2	2.00	0.44
7:UE:127:TYR:HB3	7:UE:129:PHE:HE2	1.82	0.44
7:UE:350:LEU:HD21	19:UQ:60:ARG:CZ	2.48	0.44
12:UJ:717:GLU:HG2	12:UJ:748:LEU:HD13	1.97	0.44
14:UL:448:GLY:HA2	14:UL:476:ILE:HD11	1.99	0.44
15:UM:141:LYS:HD2	15:UM:142:GLY:N	2.32	0.44
15:UM:267:PHE:O	15:UM:281:THR:HG23	2.17	0.44
15:UM:418:ASN:ND2	15:UM:420:ASN:HD21	2.15	0.44
15:UM:513:LYS:HG3	15:UM:535:GLY:H	1.83	0.44
16:UN:313:PHE:O	16:UN:315:LEU:N	2.47	0.44
19:UQ:589:SER:OG	19:UQ:590:HIS:N	2.50	0.44
22:UT:405:TYR:O	22:UT:408:VAL:HG12	2.17	0.44
22:UT:418:GLN:O	22:UT:422:LYS:HG2	2.17	0.44
24:UV:153:PHE:HA	24:UV:156:LYS:HB2	1.99	0.44
28:CF:7:LYS:NZ	28:CF:62:GLU:OE2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CG:125:LEU:HD23	28:CG:125:LEU:HA	1.83	0.44
30:CI:109:ARG:HD2	30:CI:150:VAL:O	2.17	0.44
35:CN:20:LEU:HA	35:CN:157:GLU:OE2	2.17	0.44
35:CN:91:ASP:OD2	35:CN:96:HIS:N	2.50	0.44
36:JD:878:LYS:O	36:JD:882:LEU:HD23	2.16	0.44
36:JD:907:LEU:HD23	36:JD:908:SER:N	2.32	0.44
37:JG:46:ALA:HA	37:JG:115:GLN:HB3	1.99	0.44
40:JL:281:ILE:HA	40:JL:284:VAL:HG22	1.99	0.44
42:JP:113:VAL:HG23	42:JP:113:VAL:O	2.17	0.44
42:JP:172:LEU:HD23	42:JP:172:LEU:O	2.17	0.44
42:JP:231:GLU:O	42:JP:231:GLU:HG3	2.17	0.44
62:D3:138:A:H61	62:D3:266:A:H61	1.64	0.44
62:D3:187:G:C6	62:D3:197:A:C6	3.05	0.44
62:D3:195:G:O2'	62:D3:196:G:H5'	2.17	0.44
62:D3:610:G:O2'	62:D3:613:G:O2'	2.12	0.44
62:D3:1010:C:H2'	62:D3:1011:G:O4'	2.17	0.44
62:D3:1057:U:O2'	62:D3:1058:U:O5'	2.29	0.44
63:D4:42:U:H2'	63:D4:43:C:C6	2.52	0.44
75:EN:220:GLY:N	75:EN:234:CYS:O	2.37	0.44
1:CA:198:GLU:CD	1:CA:199:PHE:H	2.25	0.44
2:DA:145:LYS:HB2	2:DA:149:GLN:CG	2.29	0.44
2:DA:218:LEU:HD23	2:DA:218:LEU:HA	1.75	0.44
1:CB:195:TYR:HA	1:CB:218:ILE:CG2	2.45	0.44
6:UD:229:MET:SD	6:UD:270:ALA:HB1	2.57	0.44
6:UD:564:ALA:HA	12:UJ:636:ASP:OD2	2.17	0.44
7:UE:151:LEU:C	7:UE:151:LEU:HD12	2.42	0.44
7:UE:343:ARG:HD3	7:UE:344:ASP:N	2.32	0.44
7:UE:470:PHE:HD2	7:UE:471:ARG:HD2	1.81	0.44
9:UG:298:MET:CE	9:UG:330:LEU:HD21	2.47	0.44
10:UH:636:GLN:O	10:UH:640:LEU:HG	2.17	0.44
12:UJ:1404:PHE:HD1	12:UJ:1407:LEU:HD21	1.82	0.44
14:UL:499:PHE:CD1	14:UL:526:THR:HG23	2.52	0.44
14:UL:540:SER:CA	14:UL:581:ILE:HD11	2.38	0.44
14:UL:588:ILE:HG23	14:UL:600:TRP:HB2	1.99	0.44
15:UM:310:THR:C	15:UM:311:LEU:HD12	2.41	0.44
15:UM:627:ASN:OD1	15:UM:627:ASN:N	2.50	0.44
16:UN:298:TRP:O	16:UN:301:ILE:HG22	2.17	0.44
17:UO:173:THR:HG21	17:UO:218:VAL:H	1.81	0.44
19:UQ:213:LYS:O	19:UQ:217:THR:HG23	2.18	0.44
21:US:478:ALA:O	21:US:482:LYS:HG2	2.16	0.44
22:UT:902:THR:HG21	49:DI:62:THR:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1332:ILE:C	22:UT:1334:ASP:H	2.25	0.44
22:UT:1516:GLN:HG3	22:UT:1517:HIS:CD2	2.51	0.44
23:UU:439:PHE:HE1	23:UU:441:ARG:NH1	2.15	0.44
24:UV:286:TYR:O	24:UV:289:ARG:NH1	2.48	0.44
24:UV:468:PHE:CZ	24:UV:473:LYS:HA	2.52	0.44
24:UV:529:VAL:HG22	24:UV:696:ILE:HG12	1.98	0.44
24:UV:1030:SER:C	24:UV:1032:PRO:HD3	2.43	0.44
24:UV:1063:ARG:O	24:UV:1067:LEU:HD23	2.18	0.44
27:CE:101:LEU:HD12	27:CE:103:LEU:H	1.81	0.44
29:CH:522:THR:HG1	29:CH:542:SER:HG	1.62	0.44
31:CJ:201:ARG:HA	31:CJ:201:ARG:HD2	1.78	0.44
33:CL:968:THR:HG22	33:CL:972:ILE:HG12	1.99	0.44
33:CL:975:GLU:OE2	33:CL:977:LYS:HE2	2.17	0.44
34:CM:202:PRO:HG3	34:CM:229:VAL:HG11	1.99	0.44
36:JD:396:GLU:HB3	36:JD:399:LYS:HE3	2.00	0.44
36:JD:461:ARG:HA	36:JD:464:ASN:ND2	2.32	0.44
36:JD:1106:ILE:HA	36:JD:1107:THR:HA	1.66	0.44
37:JG:40:ARG:HH22	37:JG:111:GLN:HB3	1.83	0.44
41:JM:59:LEU:HD12	41:JM:62:LEU:HD12	1.98	0.44
41:JM:190:LYS:HA	41:JM:193:GLU:CD	2.42	0.44
42:JP:400:LEU:HA	42:JP:400:LEU:HD23	1.68	0.44
51:DL:80:MET:HG3	51:DL:83:THR:OG1	2.18	0.44
54:DQ:123:ARG:HA	54:DQ:123:ARG:NE	2.32	0.44
55:DS:42:TYR:O	55:DS:46:VAL:HG13	2.17	0.44
62:D3:400:A:H4'	62:D3:401:A:H5"	2.00	0.44
62:D3:505:A:H62	62:D3:585:A:H5'	1.83	0.44
62:D3:1540:G:C6	62:D3:1541:G:C4	3.06	0.44
62:D3:1701:A:H2'	62:D3:1702:A:N3	2.32	0.44
65:EB:250:LYS:N	66:EC:199:LEU:O	2.43	0.44
74:EK:845:PRO:HA	74:EK:851:ASP:CB	2.47	0.44
3:UA:605:ASP:OD2	23:UU:513:MET:HE1	2.16	0.44
1:CB:281:ASP:O	1:CB:285:VAL:HG23	2.17	0.44
6:UD:34:HIS:HB3	6:UD:414:TYR:OH	2.18	0.44
6:UD:255:SER:OG	6:UD:265:TRP:HZ3	2.00	0.44
7:UE:167:SER:C	7:UE:169:SER:H	2.24	0.44
7:UE:255:ILE:O	7:UE:276:SER:OG	2.30	0.44
8:UF:121:GLY:HA2	8:UF:124:THR:OG1	2.18	0.44
10:UH:593:ASP:OD2	10:UH:594:SER:N	2.50	0.44
12:UJ:563:LEU:HD11	12:UJ:600:LEU:HB2	1.99	0.44
12:UJ:1355:ILE:O	12:UJ:1359:VAL:HG23	2.17	0.44
12:UJ:1358:CYS:HA	12:UJ:1361:VAL:HG12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:UJ:1664:LYS:HD3	63:D4:145:U:C6	2.52	0.44
12:UJ:1750:THR:O	12:UJ:1754:LYS:HG3	2.16	0.44
13:UK:143:MET:HE1	18:UP:180:LEU:CD2	2.47	0.44
14:UL:406:LEU:HD11	14:UL:416:ILE:HG13	2.00	0.44
15:UM:344:ARG:O	15:UM:353:LEU:HD12	2.17	0.44
15:UM:348:PRO:HD2	15:UM:419:GLU:CG	2.46	0.44
15:UM:493:ASP:O	15:UM:511:TYR:N	2.37	0.44
17:UO:209:LEU:HD13	17:UO:237:TRP:CE3	2.52	0.44
22:UT:280:MET:SD	22:UT:735:ARG:NH2	2.90	0.44
22:UT:490:LYS:HA	22:UT:527:ARG:NH1	2.32	0.44
22:UT:846:SER:HB2	22:UT:849:GLU:OE2	2.17	0.44
22:UT:881:LEU:O	22:UT:885:ARG:HG3	2.17	0.44
22:UT:945:ARG:HE	22:UT:945:ARG:HB2	1.55	0.44
22:UT:1168:VAL:O	22:UT:1172:THR:HG23	2.18	0.44
22:UT:2345:ARG:CD	62:D3:830:U:H5'	2.47	0.44
23:UU:138:PHE:HB3	23:UU:140:TYR:HE1	1.82	0.44
23:UU:495:ARG:HD3	23:UU:495:ARG:HA	1.65	0.44
24:UV:219:PHE:HB3	24:UV:303:PHE:CD2	2.53	0.44
24:UV:623:GLU:HB3	24:UV:626:LYS:NZ	2.31	0.44
24:UV:808:LEU:HA	24:UV:825:PHE:HZ	1.82	0.44
25:UX:61:PRO:HG3	25:UX:63:TYR:CZ	2.52	0.44
25:UX:171:PRO:HA	25:UX:184:LYS:HB2	1.99	0.44
26:CD:240:LEU:O	26:CD:242:ASN:N	2.50	0.44
27:CE:98:ILE:HG13	27:CE:107:VAL:HG21	1.98	0.44
27:CE:124:LEU:HD12	27:CE:127:LEU:HB3	1.98	0.44
28:CF:110:ILE:O	28:CF:114:ILE:HG13	2.16	0.44
29:CH:343:ASP:OD1	29:CH:343:ASP:N	2.50	0.44
32:CK:499:GLY:O	32:CK:508:ARG:NH2	2.41	0.44
33:CL:128:MET:SD	33:CL:155:PHE:HB2	2.57	0.44
36:JD:106:LYS:O	36:JD:109:GLU:HG2	2.16	0.44
36:JD:375:TYR:O	36:JD:379:SER:OG	2.22	0.44
36:JD:422:THR:C	36:JD:425:PRO:HD2	2.43	0.44
40:JL:193:LYS:HB2	40:JL:200:PRO:O	2.16	0.44
44:JJ:72:VAL:HB	44:JJ:80:ARG:HG3	1.98	0.44
48:DH:9:LEU:HD11	48:DH:13:PRO:HA	1.99	0.44
53:DO:48:VAL:O	53:DO:48:VAL:HG13	2.18	0.44
61:D2:18:G:H2'	61:D2:19:A:C8	2.52	0.44
62:D3:233:C:H4'	62:D3:234:G:O4'	2.17	0.44
74:EK:81:ALA:CB	74:EK:82:PRO:HA	2.45	0.44
1:CA:128:PRO:HA	1:CA:136:PRO:HB3	2.00	0.44
4:UB:495:ASN:ND2	4:UB:618:THR:HG22	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UB:662:LEU:O	4:UB:666:GLN:HG2	2.16	0.44
6:UD:71:ARG:HB2	6:UD:75:ASN:HB3	2.00	0.44
6:UD:298:ALA:HB2	6:UD:304:ILE:HG22	1.98	0.44
7:UE:177:GLU:CD	7:UE:179:LYS:HB2	2.42	0.44
7:UE:552:ASN:O	7:UE:556:THR:HG22	2.17	0.44
8:UF:120:ARG:HH12	8:UF:123:GLN:HB2	1.82	0.44
11:UI:476:LYS:HA	11:UI:476:LYS:HD3	1.83	0.44
12:UJ:332:ILE:O	12:UJ:336:LEU:HG	2.17	0.44
14:UL:398:ASP:OD1	14:UL:399:ILE:N	2.49	0.44
14:UL:625:PRO:HG3	14:UL:667:THR:O	2.16	0.44
15:UM:194:ARG:HA	15:UM:194:ARG:HD2	1.70	0.44
15:UM:259:TYR:HB2	15:UM:267:PHE:CE1	2.52	0.44
15:UM:544:TYR:HB3	15:UM:587:GLN:CG	2.40	0.44
17:UO:53:HIS:HB2	17:UO:69:ARG:HH12	1.83	0.44
17:UO:285:ASP:OD1	17:UO:285:ASP:N	2.48	0.44
17:UO:420:GLU:O	17:UO:424:ARG:HG2	2.18	0.44
19:UQ:534:LYS:HG2	19:UQ:541:TRP:CH2	2.53	0.44
21:US:326:LEU:O	21:US:329:ARG:HG3	2.17	0.44
22:UT:358:VAL:O	22:UT:362:PHE:HD2	2.00	0.44
22:UT:424:ASN:ND2	22:UT:427:SER:OG	2.42	0.44
22:UT:524:LYS:HE2	22:UT:556:ARG:HB3	2.00	0.44
22:UT:1707:HIS:CE1	22:UT:1805:ASP:CG	2.96	0.44
22:UT:2270:ASN:HA	22:UT:2273:ILE:HD13	1.99	0.44
24:UV:566:ILE:HA	24:UV:569:VAL:HG12	1.98	0.44
24:UV:710:LEU:O	24:UV:1114:ILE:HG13	2.17	0.44
25:UX:67:ILE:HG21	25:UX:72:ILE:HD11	2.00	0.44
27:CE:61:ASN:HD22	27:CE:147:ILE:HD11	1.82	0.44
28:CG:7:LYS:NZ	28:CG:62:GLU:OE2	2.50	0.44
29:CH:326:GLU:OE1	29:CH:403:ASP:HA	2.16	0.44
31:CJ:152:LEU:HB2	31:CJ:167:LEU:HD22	1.99	0.44
31:CJ:177:ILE:HG13	31:CJ:178:ASN:OD1	2.17	0.44
31:CJ:223:THR:HG22	31:CJ:234:ARG:O	2.17	0.44
32:CK:301:GLU:O	32:CK:305:ILE:HG12	2.18	0.44
32:CK:329:GLU:HA	33:CL:933:LYS:HG3	1.99	0.44
33:CL:1027:THR:O	33:CL:1028:GLU:HG2	2.18	0.44
36:JD:23:LEU:HG	36:JD:27:ARG:HH11	1.82	0.44
36:JD:750:PRO:HG3	36:JD:756:LEU:HB3	2.00	0.44
36:JD:788:ASN:O	36:JD:792:GLY:N	2.47	0.44
36:JD:1077:ILE:HD12	36:JD:1077:ILE:H	1.82	0.44
37:JG:32:THR:OG1	37:JG:34:LYS:HG2	2.17	0.44
42:JP:187:SER:HA	42:JP:194:PHE:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:JP:415:ARG:NH2	42:JP:415:ARG:HB3	2.32	0.44
45:DE:54:TYR:O	59:DY:15:ASN:ND2	2.51	0.44
47:DG:133:LEU:HD12	62:D3:166:C:O2	2.17	0.44
47:DG:154:ARG:O	62:D3:78:A:H5'	2.17	0.44
48:DH:115:SER:HB2	48:DH:118:LEU:HD23	1.99	0.44
53:DO:24:ASN:C	53:DO:55:SER:HB3	2.42	0.44
54:DQ:99:GLU:HB2	54:DQ:102:LYS:HE2	2.00	0.44
57:DW:55:ASP:N	57:DW:55:ASP:OD1	2.50	0.44
62:D3:554:C:N4	62:D3:571:G:C6	2.85	0.44
62:D3:619:A:O2'	62:D3:1110:G:O4'	2.34	0.44
62:D3:909:U:O4	62:D3:910:C:N4	2.49	0.44
62:D3:1512:G:H2'	62:D3:1513:G:C8	2.51	0.44
63:D4:201:C:N3	63:D4:249:G:C6	2.85	0.44
74:EK:140:ASP:C	74:EK:142:HIS:H	2.23	0.44
74:EK:634:ALA:HB2	74:EK:680:LEU:HA	1.99	0.44
75:EN:567:VAL:O	75:EN:571:MET:N	2.41	0.44
75:EN:683:SER:HA	75:EN:689:ASN:HA	2.00	0.44
2:DA:29:TRP:CE2	2:DA:47:LEU:HD21	2.53	0.44
6:UD:630:LYS:HD3	6:UD:630:LYS:HA	1.76	0.44
8:UF:323:PHE:HB2	8:UF:335:ILE:HD11	2.00	0.44
10:UH:716:TYR:OH	10:UH:718:MET:SD	2.69	0.44
13:UK:93:MET:HA	13:UK:96:VAL:HG12	1.99	0.44
15:UM:181:LYS:O	15:UM:183:LEU:N	2.50	0.44
15:UM:290:ILE:HA	15:UM:306:LEU:HD13	2.00	0.44
17:UO:424:ARG:HG3	17:UO:425:GLY:N	2.33	0.44
19:UQ:461:ASP:OD2	19:UQ:464:LYS:NZ	2.50	0.44
19:UQ:500:PHE:HD1	19:UQ:507:MET:HB3	1.82	0.44
20:UR:249:SER:N	20:UR:269:ASP:OD2	2.40	0.44
21:US:381:LYS:O	21:US:385:ARG:HG3	2.17	0.44
22:UT:201:ARG:HD3	22:UT:248:HIS:CE1	2.53	0.44
22:UT:362:PHE:O	22:UT:366:ILE:HG12	2.17	0.44
22:UT:1376:ASP:O	22:UT:1380:GLU:HG3	2.18	0.44
22:UT:2381:GLU:HB2	22:UT:2382:LYS:H	1.55	0.44
23:UU:221:ILE:HG23	23:UU:223:LEU:HD11	1.98	0.44
23:UU:392:ARG:NH2	23:UU:449:ARG:HH12	2.15	0.44
23:UU:807:VAL:HG12	23:UU:809:GLY:H	1.83	0.44
23:UU:859:ASP:HB2	23:UU:863:TRP:CZ2	2.52	0.44
24:UV:527:TYR:CD1	24:UV:698:ASN:HB2	2.52	0.44
24:UV:1041:VAL:O	24:UV:1049:GLY:HA2	2.18	0.44
25:UX:119:LEU:HA	25:UX:119:LEU:HD23	1.67	0.44
28:CF:106:ASP:OD1	28:CF:107:ALA:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CG:106:ASP:OD1	28:CG:107:ALA:N	2.50	0.44
29:CH:166:VAL:H	29:CH:175:SER:CB	2.31	0.44
33:CL:138:VAL:HG11	33:CL:155:PHE:CE2	2.53	0.44
33:CL:928:ILE:HG23	33:CL:1009:VAL:HG23	1.98	0.44
34:CM:180:MET:HG3	34:CM:181:HIS:N	2.32	0.44
35:CN:19:LYS:HE2	35:CN:156:PHE:C	2.43	0.44
35:CN:70:PHE:CZ	35:CN:74:LEU:HD21	2.52	0.44
35:CN:212:PHE:HB3	43:Db:78:SER:OG	2.18	0.44
35:CN:259:ARG:HA	35:CN:259:ARG:HE	1.82	0.44
36:JD:919:ASP:OD2	36:JD:1055:LYS:HB3	2.17	0.44
36:JD:1154:TYR:CD1	36:JD:1167:MET:HG2	2.53	0.44
37:JF:99:LEU:HD23	37:JF:238:CYS:SG	2.58	0.44
40:JL:166:ARG:NH2	62:D3:1123:C:O3'	2.50	0.44
42:JP:8:ARG:HD2	42:JP:13:TYR:HE1	1.83	0.44
42:JP:228:ASN:HB3	42:JP:269:TRP:CE2	2.52	0.44
46:DF:225:ARG:HD3	60:Dc:58:GLU:OE1	2.17	0.44
47:DG:18:ILE:HG23	47:DG:23:ARG:HD2	2.00	0.44
47:DG:190:GLN:NE2	62:D3:265:A:C8	2.86	0.44
48:DH:52:ALA:C	48:DH:54:GLY:N	2.73	0.44
48:DH:153:LEU:HD23	48:DH:184:GLU:HB2	2.00	0.44
61:D2:21:A:H2'	61:D2:22:A:C8	2.53	0.44
62:D3:16:G:C6	62:D3:17:C:N4	2.85	0.44
62:D3:588:U:H2'	62:D3:589:C:C6	2.53	0.44
62:D3:904:G:C4	62:D3:905:A:C8	3.06	0.44
62:D3:1008:G:C6	62:D3:1009:U:C4	3.05	0.44
62:D3:1142:A:C4	62:D3:1143:A:C8	3.05	0.44
62:D3:1146:G:C2	62:D3:1147:A:C5	3.06	0.44
62:D3:1623:C:H2'	62:D3:1624:C:C6	2.52	0.44
62:D3:1648:A:C2	62:D3:1649:G:C4	3.06	0.44
63:D4:18:G:H2'	63:D4:19:A:C8	2.53	0.44
63:D4:263:A:H2'	63:D4:264:C:H6	1.81	0.44
74:EK:663:ASP:O	74:EK:664:LYS:CB	2.66	0.44
1:CA:232:MET:HB2	1:CA:233:LEU:HD12	2.00	0.44
3:UA:146:PHE:HB2	3:UA:167:ASP:OD1	2.17	0.44
3:UA:269:HIS:CE1	3:UA:271:ALA:HB3	2.53	0.44
4:UB:703:GLN:HA	4:UB:705:HIS:CE1	2.53	0.44
4:UB:734:ARG:NH2	62:D3:1544:U:H1'	2.33	0.44
6:UD:160:CYS:SG	6:UD:164:THR:HB	2.58	0.44
6:UD:309:GLN:HG3	6:UD:319:ARG:O	2.17	0.44
6:UD:433:LEU:HD12	6:UD:439:VAL:O	2.18	0.44
6:UD:770:ILE:HG22	6:UD:772:PRO:HD3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UG:48:LYS:O	9:UG:51:GLU:HG3	2.17	0.44
9:UG:80:LEU:HD12	9:UG:80:LEU:HA	1.86	0.44
9:UG:244:ASN:C	9:UG:244:ASN:HD22	2.23	0.44
9:UG:423:LYS:NZ	63:D4:39:C:H5"	2.33	0.44
10:UH:601:LYS:HB3	10:UH:601:LYS:HE3	1.79	0.44
13:UK:5:VAL:HG13	13:UK:9:GLN:CD	2.42	0.44
14:UL:561:ASP:OD1	14:UL:562:SER:N	2.50	0.44
14:UL:612:PHE:CE2	62:D3:1140:G:H1'	2.52	0.44
15:UM:426:ILE:HG22	15:UM:426:ILE:O	2.17	0.44
17:UO:123:SER:N	17:UO:150:ARG:HH22	2.15	0.44
17:UO:173:THR:HG21	17:UO:217:ASN:HA	1.99	0.44
18:UP:198:ILE:HG13	18:UP:199:ILE:N	2.32	0.44
20:UR:516:THR:HG22	20:UR:517:THR:N	2.23	0.44
21:US:174:ASN:ND2	21:US:218:LYS:HE3	2.31	0.44
21:US:470:MET:HA	21:US:481:ALA:HB1	2.00	0.44
22:UT:140:ILE:HD11	22:UT:188:LEU:HD21	1.98	0.44
22:UT:715:TYR:CE2	22:UT:758:ILE:HG23	2.53	0.44
22:UT:1134:MET:N	22:UT:1134:MET:HE2	2.32	0.44
22:UT:1281:ARG:O	22:UT:1285:THR:HG23	2.18	0.44
22:UT:1741:LYS:HB2	22:UT:1741:LYS:HE3	1.52	0.44
23:UU:774:ARG:HD2	53:DO:53:ASP:OD2	2.18	0.44
24:UV:103:PHE:CE2	24:UV:107:ILE:HD11	2.52	0.44
29:CH:151:ARG:NH2	63:D4:247:U:O4	2.50	0.44
29:CH:417:SER:OG	29:CH:418:ASP:N	2.50	0.44
30:CI:66:PRO:HA	30:CI:71:ARG:NH1	2.32	0.44
32:CK:335:ARG:NH2	33:CL:952:PHE:HA	2.32	0.44
33:CL:611:PHE:HZ	34:CM:257:PHE:HZ	1.66	0.44
33:CL:976:ILE:O	33:CL:976:ILE:HG13	2.18	0.44
33:CL:1138:ARG:CZ	62:D3:492:A:C5	3.01	0.44
35:CN:9:MET:N	35:CN:13:PHE:O	2.40	0.44
35:CN:54:PHE:HA	35:CN:125:LEU:HD13	2.00	0.44
36:JD:783:LYS:HD3	36:JD:796:PHE:HB3	1.99	0.44
36:JD:1000:PHE:CE2	36:JD:1148:PRO:HD2	2.53	0.44
42:JP:329:ILE:HB	42:JP:343:TYR:HB2	2.00	0.44
46:DF:34:GLN:O	46:DF:37:GLN:HB3	2.18	0.44
46:DF:80:LYS:HB3	46:DF:80:LYS:HE2	1.74	0.44
54:DQ:13:LYS:HD2	54:DQ:13:LYS:HA	1.76	0.44
56:DT:102:ARG:NH2	62:D3:1500:C:P	2.91	0.44
62:D3:647:G:N2	62:D3:687:G:H22	2.15	0.44
62:D3:717:C:N4	62:D3:720:G:H22	2.15	0.44
62:D3:1002:G:H1'	62:D3:1004:U:O4	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:D3:1091:A:H4'	62:D3:1092:A:O4'	2.17	0.44
62:D3:1536:G:C6	62:D3:1538:U:C2	3.05	0.44
62:D3:1734:U:H2'	62:D3:1735:U:C6	2.53	0.44
63:D4:88:U:C4	63:D4:89:C:C2	3.06	0.44
75:EN:790:VAL:O	75:EN:794:LEU:N	2.43	0.44
3:UA:559:ILE:CG2	3:UA:598:ASN:HD22	2.30	0.44
1:CB:234:ILE:O	1:CB:260:PHE:HE1	2.00	0.44
5:UC:541:ASN:OD1	5:UC:542:TYR:N	2.51	0.44
5:UC:574:LYS:HD2	62:D3:502:U:H5"	1.98	0.44
7:UE:438:THR:HG22	7:UE:468:THR:HA	1.99	0.44
9:UG:512:ARG:NH1	62:D3:1043:A:O3'	2.50	0.44
10:UH:272:PHE:HA	10:UH:279:TYR:HA	1.99	0.44
12:UJ:1396:LEU:O	12:UJ:1399:ALA:N	2.51	0.44
12:UJ:1442:SER:HA	12:UJ:1445:ILE:HG12	2.00	0.44
12:UJ:1752:LEU:HA	12:UJ:1752:LEU:HD23	1.76	0.44
15:UM:33:ALA:HB2	15:UM:69:LEU:HD12	1.99	0.44
15:UM:169:ASN:O	15:UM:171:MET:N	2.47	0.44
15:UM:212:LEU:HD21	15:UM:246:CYS:HB2	1.99	0.44
15:UM:402:TRP:CD1	15:UM:445:ILE:HG13	2.53	0.44
15:UM:532:HIS:CG	15:UM:533:LYS:H	2.36	0.44
15:UM:692:MET:HE2	32:CK:515:MET:SD	2.58	0.44
16:UN:840:LEU:HA	16:UN:840:LEU:HD23	1.66	0.44
17:UO:444:ASN:O	17:UO:447:LEU:HG	2.17	0.44
18:UP:171:VAL:HG13	18:UP:178:VAL:HB	2.00	0.44
20:UR:429:TYR:CB	28:CF:18:GLN:HE21	2.25	0.44
21:US:322:GLY:HA2	21:US:325:GLU:OE2	2.17	0.44
22:UT:102:SER:O	22:UT:105:PRO:HD2	2.17	0.44
22:UT:259:LEU:HA	22:UT:275:LEU:HD11	1.99	0.44
22:UT:260:HIS:O	22:UT:264:THR:HG23	2.18	0.44
22:UT:494:THR:HA	22:UT:497:ILE:HG12	1.98	0.44
22:UT:916:GLU:H	22:UT:916:GLU:CD	2.24	0.44
22:UT:992:LYS:CE	22:UT:996:ARG:HE	2.31	0.44
22:UT:1558:THR:O	22:UT:1562:VAL:HG23	2.18	0.44
22:UT:1793:LEU:HD23	22:UT:1793:LEU:HA	1.73	0.44
22:UT:2048:MET:N	22:UT:2048:MET:SD	2.91	0.44
22:UT:2175:GLU:N	22:UT:2175:GLU:OE1	2.50	0.44
23:UU:234:ASN:HB2	23:UU:241:ILE:CD1	2.47	0.44
24:UV:189:PHE:HB3	24:UV:203:ILE:HG21	2.00	0.44
24:UV:413:LEU:HB3	24:UV:416:PHE:CZ	2.53	0.44
24:UV:853:ARG:HD3	24:UV:889:TYR:CZ	2.52	0.44
24:UV:962:LEU:HA	24:UV:965:ILE:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CE:76:LEU:HA	27:CE:79:ILE:CG1	2.46	0.44
27:CE:359:ILE:HD11	27:CE:394:VAL:HG22	2.00	0.44
28:CG:5:ASN:HA	29:CH:462:ARG:CG	2.48	0.44
30:CI:128:VAL:HG23	30:CI:146:PRO:CG	2.48	0.44
31:CJ:25:LEU:HG	31:CJ:29:ARG:NH1	2.32	0.44
31:CJ:207:LYS:NZ	32:CK:380:ASP:O	2.41	0.44
33:CL:738:PHE:O	36:JD:89:VAL:HG11	2.18	0.44
36:JD:485:GLU:HB2	36:JD:488:LYS:NZ	2.32	0.44
36:JD:828:ALA:HB1	36:JD:832:HIS:CE1	2.53	0.44
36:JD:874:VAL:HG12	36:JD:878:LYS:HZ3	1.83	0.44
36:JD:897:GLU:HB2	36:JD:901:LYS:NZ	2.32	0.44
37:JG:53:HIS:HE1	37:JG:80:MET:HG3	1.82	0.44
40:JL:40:LYS:HD3	40:JL:40:LYS:HA	1.78	0.44
42:JP:282:GLU:C	42:JP:284:HIS:H	2.25	0.44
44:JJ:245:GLU:OE2	53:DO:137:LEU:HD11	2.18	0.44
51:DL:99:ARG:HG3	58:DX:12:ALA:HB2	1.98	0.44
59:DY:14:SER:O	59:DY:14:SER:OG	2.33	0.44
62:D3:545:A:O2'	62:D3:546:U:C6	2.71	0.44
62:D3:948:G:H2'	62:D3:949:C:C6	2.53	0.44
62:D3:1503:A:H2'	62:D3:1504:G:O4'	2.18	0.44
63:D4:94:A:H61	63:D4:322:A:N6	2.16	0.44
1:CA:218:ILE:HG22	26:CD:152:LEU:HG	2.00	0.44
3:UA:779:LEU:HA	3:UA:779:LEU:HD23	1.69	0.44
1:CB:110:ASN:OD1	1:CB:142:ARG:HB2	2.18	0.44
4:UB:611:SER:OG	4:UB:634:SER:HB3	2.17	0.44
6:UD:581:SER:OG	6:UD:593:GLU:HG2	2.18	0.44
10:UH:584:PHE:O	19:UQ:605:ASN:ND2	2.36	0.44
12:UJ:279:MET:HE2	12:UJ:299:ILE:CG2	2.47	0.44
12:UJ:789:VAL:HA	12:UJ:792:LEU:HG	2.00	0.44
12:UJ:1378:ILE:HA	12:UJ:1381:PHE:CD2	2.53	0.44
14:UL:754:GLU:OE1	14:UL:754:GLU:HA	2.18	0.44
14:UL:849:HIS:O	14:UL:853:ILE:HG22	2.17	0.44
15:UM:161:TRP:HB2	15:UM:177:LEU:HB2	2.00	0.44
15:UM:536:LEU:HA	15:UM:552:SER:HA	1.99	0.44
19:UQ:714:ASP:HB2	19:UQ:774:PHE:HZ	1.82	0.44
20:UR:137:ILE:HA	20:UR:143:THR:HG21	2.00	0.44
20:UR:335:GLN:OE1	20:UR:335:GLN:N	2.50	0.44
21:US:292:PRO:HB2	21:US:329:ARG:NH2	2.33	0.44
21:US:356:ALA:O	21:US:360:ARG:HG3	2.16	0.44
22:UT:70:ILE:HG22	22:UT:74:VAL:HG12	2.00	0.44
22:UT:457:PHE:HE2	22:UT:485:ILE:HG21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1011:LEU:CB	22:UT:1015:PHE:HB3	2.48	0.44
22:UT:1863:LEU:HA	22:UT:1863:LEU:HD12	1.79	0.44
23:UU:37:VAL:CG2	23:UU:53:CYS:HB3	2.48	0.44
23:UU:511:ASP:OD2	23:UU:513:MET:N	2.51	0.44
26:CD:395:GLU:OE1	29:CH:455:THR:OG1	2.24	0.44
27:CE:39:LEU:HD23	27:CE:39:LEU:HA	1.66	0.44
27:CE:303:SER:HB2	27:CE:309:LEU:HD13	2.00	0.44
33:CL:91:ARG:HD3	33:CL:214:ARG:NE	2.32	0.44
34:CM:319:ASP:O	34:CM:323:ILE:HG12	2.18	0.44
35:CN:3:ILE:HA	35:CN:6:ILE:HD12	1.99	0.44
35:CN:55:LEU:O	35:CN:123:THR:OG1	2.19	0.44
35:CN:259:ARG:NH1	52:DN:83:GLU:HA	2.29	0.44
36:JD:1039:VAL:HA	36:JD:1042:ARG:HG2	2.00	0.44
36:JD:1100:PHE:HB3	36:JD:1101:PRO:HD3	1.99	0.44
37:JF:115:GLN:HE22	37:JF:120:ILE:N	2.16	0.44
53:DO:51:ASP:OD2	62:D3:906:A:P	2.75	0.44
58:DX:5:LYS:NZ	62:D3:612:U:OP2	2.48	0.44
62:D3:779:U:HO2'	62:D3:780:A:P	2.38	0.44
62:D3:923:A:H2'	62:D3:924:A:H8	1.82	0.44
62:D3:1630:U:O2'	62:D3:1631:A:OP2	2.34	0.44
63:D4:8:U:C2	63:D4:9:A:C8	3.05	0.44
75:EN:719:VAL:N	75:EN:762:ILE:O	2.39	0.44
1:CA:102:LYS:O	41:JM:136:TYR:OH	2.24	0.44
1:CA:104:ASP:OD2	5:UC:597:GLY:HA2	2.18	0.44
1:CA:198:GLU:OE1	1:CA:199:PHE:N	2.51	0.44
1:CA:307:GLU:C	1:CA:309:TYR:H	2.25	0.44
2:DA:73:LEU:HD12	2:DA:73:LEU:HA	1.74	0.44
3:UA:799:ILE:HD13	3:UA:824:ILE:HG23	1.99	0.44
1:CB:281:ASP:O	1:CB:284:THR:OG1	2.21	0.44
1:CB:286:PHE:HA	1:CB:289:GLU:CD	2.43	0.44
4:UB:85:GLY:O	4:UB:89:GLN:HG2	2.18	0.44
6:UD:196:LYS:HG3	6:UD:246:TYR:CE2	2.53	0.44
6:UD:231:VAL:HG22	6:UD:265:TRP:CH2	2.53	0.44
6:UD:298:ALA:CB	6:UD:336:ILE:HD11	2.48	0.44
6:UD:363:SER:O	6:UD:367:GLY:N	2.39	0.44
6:UD:396:GLU:HA	6:UD:428:ILE:HG21	1.99	0.44
9:UG:357:SER:HA	9:UG:364:ARG:HE	1.83	0.44
11:UI:440:SER:OG	11:UI:452:LEU:HD21	2.18	0.44
12:UJ:494:VAL:HG21	12:UJ:525:PHE:CE1	2.52	0.44
12:UJ:581:GLY:O	12:UJ:585:ILE:HG12	2.18	0.44
14:UL:104:LYS:HB3	14:UL:113:VAL:HG21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UL:453:GLU:OE1	14:UL:469:GLU:HG3	2.18	0.44
15:UM:32:LEU:HD12	15:UM:33:ALA:H	1.83	0.44
16:UN:763:ASP:O	16:UN:767:GLU:OE1	2.36	0.44
16:UN:849:PHE:C	16:UN:851:PHE:H	2.25	0.44
17:UO:37:LYS:HD2	17:UO:325:GLY:O	2.18	0.44
19:UQ:132:PHE:HB3	19:UQ:185:PHE:CE2	2.53	0.44
19:UQ:397:LYS:HA	19:UQ:737:ILE:HD11	1.99	0.44
19:UQ:447:LYS:NZ	19:UQ:770:TYR:HB2	2.32	0.44
19:UQ:551:HIS:HE2	19:UQ:583:LYS:HB2	1.83	0.44
19:UQ:864:ASP:N	19:UQ:864:ASP:OD1	2.51	0.44
20:UR:237:ARG:HH21	20:UR:587:ARG:HG3	1.83	0.44
22:UT:706:LEU:HD23	22:UT:774:ILE:HG21	2.00	0.44
22:UT:1032:MET:O	22:UT:1036:VAL:HG12	2.18	0.44
22:UT:1233:LYS:HA	22:UT:1233:LYS:HD2	1.61	0.44
22:UT:1317:HIS:HB2	22:UT:1320:ASP:CG	2.43	0.44
23:UU:141:LYS:HD3	23:UU:154:TYR:CD1	2.53	0.44
23:UU:167:ILE:HD13	23:UU:184:THR:HG22	1.99	0.44
23:UU:774:ARG:HH21	53:DO:52:ARG:NH1	2.16	0.44
23:UU:791:GLU:O	23:UU:795:LYS:HG2	2.18	0.44
23:UU:797:ASP:O	23:UU:801:GLN:OE1	2.36	0.44
24:UV:400:LEU:C	24:UV:412:LEU:HB2	2.43	0.44
26:CD:34:VAL:O	26:CD:37:GLN:HG2	2.18	0.44
26:CD:309:GLU:CD	26:CD:309:GLU:H	2.25	0.44
27:CE:237:THR:HA	27:CE:240:GLU:OE2	2.18	0.44
29:CH:61:ASP:OD1	29:CH:64:ARG:NH2	2.45	0.44
30:CI:88:LEU:HD23	30:CI:88:LEU:H	1.82	0.44
32:CK:409:LEU:CD1	44:JJ:223:ARG:HG2	2.47	0.44
34:CM:157:GLY:H	34:CM:164:GLY:HA3	1.83	0.44
35:CN:59:PRO:HG2	35:CN:158:TRP:CE2	2.53	0.44
36:JD:115:GLY:O	36:JD:118:GLN:HG2	2.18	0.44
36:JD:411:ILE:HG23	36:JD:580:VAL:HG13	2.00	0.44
36:JD:533:SER:HB2	36:JD:537:ARG:NH2	2.33	0.44
36:JD:1217:PHE:HB2	36:JD:1231:LEU:HD11	2.00	0.44
42:JP:121:PRO:HB3	42:JP:206:VAL:HG11	1.99	0.44
44:JJ:196:ASP:OD2	44:JJ:200:ARG:NH1	2.51	0.44
46:DF:45:LYS:HB3	46:DF:46:TRP:CD1	2.52	0.44
55:DS:31:ALA:O	55:DS:35:ILE:HG12	2.17	0.44
56:DT:85:SER:HA	56:DT:91:TYR:CD1	2.52	0.44
62:D3:700:C:H2'	62:D3:701:U:C6	2.52	0.44
63:D4:205:G:C2	63:D4:206:C:C2	3.06	0.44
71:EH:119:VAL:HA	71:EH:149:ILE:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:EK:327:LYS:C	74:EK:387:GLN:H	2.22	0.44
1:CB:99:ALA:O	1:CB:104:ASP:HA	2.18	0.43
6:UD:279:HIS:CE1	6:UD:283:VAL:HG22	2.53	0.43
6:UD:414:TYR:HE2	10:UH:716:TYR:CG	2.36	0.43
6:UD:424:ASP:HB2	6:UD:449:LYS:NZ	2.33	0.43
6:UD:545:ARG:HB2	6:UD:549:VAL:HG23	2.00	0.43
7:UE:284:LYS:NZ	7:UE:329:GLU:OE1	2.27	0.43
7:UE:305:TRP:HE1	7:UE:307:GLN:NE2	2.16	0.43
7:UE:364:THR:O	19:UQ:547:VAL:HA	2.18	0.43
9:UG:389:LEU:HD23	9:UG:402:ILE:HA	1.99	0.43
11:UI:483:LYS:HB3	11:UI:487:ARG:NH1	2.33	0.43
14:UL:413:SER:HA	14:UL:428:PHE:O	2.18	0.43
14:UL:592:SER:HB2	14:UL:594:ASP:OD1	2.18	0.43
14:UL:751:ARG:HE	14:UL:751:ARG:HB2	1.54	0.43
14:UL:892:LYS:HA	14:UL:892:LYS:HD2	1.88	0.43
15:UM:582:SER:O	15:UM:590:LEU:HG	2.18	0.43
16:UN:321:HIS:CB	26:CD:89:ALA:HA	2.45	0.43
16:UN:329:ARG:NH1	16:UN:339:GLN:HG2	2.33	0.43
17:UO:404:ALA:C	17:UO:409:MET:HE1	2.43	0.43
17:UO:404:ALA:O	17:UO:409:MET:HE1	2.18	0.43
17:UO:422:ARG:NH2	17:UO:423:LYS:HB2	2.33	0.43
19:UQ:172:ARG:HG2	19:UQ:192:GLU:HG3	2.00	0.43
19:UQ:319:LYS:CD	19:UQ:339:GLY:H	2.31	0.43
20:UR:522:GLN:CD	20:UR:568:VAL:HG23	2.43	0.43
21:US:399:ILE:HG23	21:US:484:PHE:CE2	2.53	0.43
22:UT:132:LEU:HD13	22:UT:155:LEU:HG	2.00	0.43
22:UT:1601:ARG:HD2	45:DE:200:ARG:HD3	2.00	0.43
22:UT:2068:LEU:HD23	22:UT:2105:ALA:HB1	1.99	0.43
23:UU:433:ALA:HB1	23:UU:463:VAL:HG23	2.00	0.43
23:UU:639:ASP:OD1	23:UU:639:ASP:N	2.42	0.43
23:UU:820:GLN:HE21	23:UU:832:SER:HB2	1.82	0.43
24:UV:129:HIS:HA	24:UV:132:TYR:HD2	1.82	0.43
24:UV:139:PRO:HG2	24:UV:238:HIS:CE1	2.53	0.43
24:UV:140:ASP:HA	24:UV:178:TYR:CD2	2.53	0.43
27:CE:33:ASP:OD1	27:CE:37:LYS:NZ	2.51	0.43
27:CE:98:ILE:O	27:CE:101:LEU:HG	2.18	0.43
28:CF:20:ILE:O	28:CF:24:VAL:HG23	2.17	0.43
29:CH:158:THR:O	29:CH:522:THR:HB	2.18	0.43
33:CL:568:ARG:NH1	34:CM:315:LYS:O	2.51	0.43
33:CL:777:ARG:HD3	33:CL:777:ARG:HA	1.73	0.43
34:CM:144:PHE:O	34:CM:178:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CM:263:ASP:OD2	34:CM:264:ALA:N	2.48	0.43
36:JD:87:SER:O	36:JD:91:ARG:HG2	2.18	0.43
36:JD:529:ILE:HA	36:JD:532:LEU:HG	2.00	0.43
36:JD:925:PRO:HA	36:JD:928:VAL:HG12	2.00	0.43
36:JD:1086:ALA:HA	36:JD:1181:ILE:HG21	2.00	0.43
40:JL:133:ILE:HG23	40:JL:137:LEU:HD23	2.00	0.43
42:JP:355:LYS:HD3	42:JP:355:LYS:HA	1.60	0.43
58:DX:76:LEU:HD21	58:DX:104:LEU:HD12	2.00	0.43
62:D3:199:G:H2'	62:D3:200:A:H8	1.82	0.43
62:D3:689:G:C6	62:D3:690:G:C5	3.05	0.43
62:D3:1646:C:H42	62:D3:1754:A:H61	1.64	0.43
63:D4:204:U:H2'	63:D4:205:G:C8	2.52	0.43
65:EB:146:GLY:O	65:EB:150:ALA:N	2.49	0.43
73:EJ:211:ARG:HA	73:EJ:248:ALA:HA	2.00	0.43
1:CA:144:TRP:HE1	1:CA:183:HIS:CB	2.31	0.43
1:CA:280:VAL:HG21	1:CA:284:THR:HG21	2.00	0.43
2:DA:58:SER:O	2:DA:62:LYS:HG3	2.18	0.43
2:DA:239:GLU:OE1	2:DA:239:GLU:N	2.50	0.43
3:UA:207:TYR:HD1	3:UA:217:VAL:HG22	1.83	0.43
4:UB:660:ILE:HG13	21:US:388:LEU:HD11	2.00	0.43
6:UD:488:ILE:O	6:UD:495:VAL:HA	2.18	0.43
8:UF:114:LEU:HA	8:UF:114:LEU:HD23	1.74	0.43
8:UF:372:ARG:HB2	8:UF:372:ARG:CZ	2.48	0.43
9:UG:388:ASP:HB2	9:UG:403:VAL:O	2.18	0.43
10:UH:182:THR:HA	10:UH:206:LEU:HA	2.00	0.43
12:UJ:498:PHE:CE2	12:UJ:539:LEU:HD13	2.53	0.43
14:UL:102:VAL:HG12	14:UL:118:ASN:HB3	1.99	0.43
14:UL:137:ILE:CG2	14:UL:169:PHE:HZ	2.31	0.43
14:UL:386:GLU:CB	14:UL:391:ARG:HH21	2.31	0.43
14:UL:811:ARG:C	14:UL:811:ARG:HD3	2.43	0.43
15:UM:387:HIS:HD2	15:UM:413:ILE:CD1	2.31	0.43
15:UM:414:VAL:C	15:UM:415:TRP:HD1	2.25	0.43
17:UO:26:TYR:HA	17:UO:29:GLN:OE1	2.17	0.43
17:UO:82:ASP:OD1	17:UO:82:ASP:N	2.48	0.43
17:UO:439:LEU:HD11	17:UO:470:TYR:CD2	2.52	0.43
17:UO:505:GLU:O	17:UO:508:LEU:HG	2.18	0.43
19:UQ:863:LYS:HB3	20:UR:547:PRO:HB2	1.99	0.43
22:UT:519:VAL:HG11	22:UT:548:TYR:CD1	2.53	0.43
22:UT:1389:LYS:HD2	22:UT:1393:MET:HE1	2.00	0.43
22:UT:2213:PHE:CE1	22:UT:2217:MET:SD	3.12	0.43
22:UT:2440:ARG:NH2	62:D3:829:A:H3'	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UU:666:ARG:O	23:UU:668:ILE:HG23	2.17	0.43
24:UV:219:PHE:HA	24:UV:224:CYS:SG	2.58	0.43
24:UV:287:LYS:H	24:UV:287:LYS:HD2	1.83	0.43
24:UV:550:MET:O	24:UV:553:VAL:HG12	2.17	0.43
24:UV:1144:ASP:OD2	24:UV:1146:THR:HG22	2.17	0.43
24:UV:1159:ASN:ND2	24:UV:1201:ASP:HB3	2.30	0.43
27:CE:318:GLN:HG2	27:CE:319:ILE:HG23	1.99	0.43
28:CG:20:ILE:O	28:CG:24:VAL:HG23	2.17	0.43
33:CL:287:ARG:NH1	33:CL:296:PHE:O	2.51	0.43
33:CL:895:PRO:HB3	58:DX:144:ARG:HH11	1.82	0.43
33:CL:1128:LYS:HE2	33:CL:1128:LYS:HB2	1.69	0.43
34:CM:344:GLU:OE1	34:CM:345:ALA:N	2.51	0.43
35:CN:85:GLU:OE2	35:CN:127:LYS:HB3	2.18	0.43
36:JD:373:ALA:HA	36:JD:376:VAL:HG12	2.00	0.43
36:JD:749:LYS:NZ	36:JD:752:GLN:HE22	2.16	0.43
36:JD:1081:LYS:HB3	36:JD:1081:LYS:HE2	1.71	0.43
36:JD:1176:THR:CG2	36:JD:1177:PRO:HD3	2.48	0.43
37:JG:175:CYS:HA	37:JG:201:SER:O	2.17	0.43
41:JM:189:ARG:O	41:JM:193:GLU:OE1	2.35	0.43
42:JP:348:MET:HE2	42:JP:351:VAL:HG22	2.00	0.43
43:Db:50:ALA:HA	52:DN:56:ASP:OD2	2.17	0.43
45:DE:55:ALA:O	45:DE:56:LEU:HD23	2.17	0.43
49:DI:200:LYS:HA	49:DI:200:LYS:HD3	1.79	0.43
52:DN:103:GLU:OE1	52:DN:103:GLU:HA	2.17	0.43
62:D3:1620:C:HO2'	62:D3:1621:U:P	2.41	0.43
62:D3:1689:A:H2'	62:D3:1690:G:H8	1.82	0.43
63:D4:5:A:H2'	63:D4:6:C:C6	2.52	0.43
65:EB:101:GLU:O	65:EB:105:SER:N	2.51	0.43
66:EC:164:GLY:O	66:EC:171:LEU:N	2.43	0.43
2:DA:13:LYS:HE2	62:D3:898:A:O2'	2.18	0.43
2:DA:128:LYS:HE2	2:DA:132:ASP:HA	2.00	0.43
3:UA:802:LEU:HD23	3:UA:802:LEU:HA	1.78	0.43
4:UB:658:ASN:O	4:UB:662:LEU:HG	2.18	0.43
5:UC:535:ASP:OD1	5:UC:536:GLY:N	2.47	0.43
10:UH:569:GLU:OE1	10:UH:574:ARG:NH1	2.45	0.43
11:UI:511:LYS:O	11:UI:514:GLU:HG3	2.19	0.43
14:UL:200:HIS:CG	14:UL:242:LEU:HD22	2.53	0.43
16:UN:789:PRO:HG2	44:JJ:117:TYR:OH	2.18	0.43
16:UN:791:TRP:HE3	44:JJ:132:LEU:HD13	1.83	0.43
19:UQ:560:ILE:HD12	19:UQ:575:THR:HG22	2.00	0.43
19:UQ:720:ILE:HG12	19:UQ:745:ILE:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:US:402:ILE:O	21:US:406:ILE:HG13	2.17	0.43
22:UT:2441:ARG:HH22	62:D3:828:U:H5"	1.82	0.43
23:UU:192:ASN:O	23:UU:196:GLY:N	2.51	0.43
23:UU:913:GLU:HG3	23:UU:917:LYS:HZ2	1.83	0.43
24:UV:192:LYS:HA	24:UV:192:LYS:HD3	1.94	0.43
24:UV:1037:LEU:HD22	24:UV:1050:ILE:CD1	2.48	0.43
26:CD:146:ASP:CG	26:CD:149:ARG:HG2	2.44	0.43
26:CD:198:TRP:HE3	26:CD:271:VAL:HG22	1.83	0.43
27:CE:22:ILE:O	27:CE:25:SER:OG	2.29	0.43
27:CE:33:ASP:HA	27:CE:37:LYS:NZ	2.33	0.43
28:CG:51:PHE:HE1	28:CG:114:ILE:HG22	1.84	0.43
29:CH:443:LEU:HD12	29:CH:444:PRO:HD2	1.99	0.43
30:CI:159:THR:OG1	30:CI:160:TRP:N	2.51	0.43
34:CM:109:PHE:HE1	34:CM:174:ILE:HD11	1.82	0.43
35:CN:228:LYS:HA	35:CN:228:LYS:HD3	1.73	0.43
36:JD:564:VAL:O	36:JD:568:SER:HB2	2.17	0.43
36:JD:750:PRO:HD3	36:JD:756:LEU:HD13	2.00	0.43
36:JD:1085:CYS:HA	36:JD:1153:LEU:CD2	2.48	0.43
37:JF:64:LYS:HA	37:JF:64:LYS:HD2	1.83	0.43
37:JF:177:LYS:HB2	37:JF:221:VAL:HA	1.99	0.43
40:JL:279:GLU:O	40:JL:283:THR:HG23	2.18	0.43
42:JP:95:TRP:CZ3	42:JP:102:GLU:HB3	2.53	0.43
42:JP:367:SER:OG	42:JP:369:ASP:OD1	2.37	0.43
48:DH:118:LEU:HD13	48:DH:118:LEU:HA	1.88	0.43
49:DI:103:GLN:HA	49:DI:165:LEU:O	2.18	0.43
50:DJ:18:PRO:HB2	50:DJ:19:TYR:CD1	2.53	0.43
55:DS:27:LYS:NZ	55:DS:55:HIS:O	2.40	0.43
58:DX:63:GLN:HG2	58:DX:63:GLN:O	2.19	0.43
62:D3:191:C:C2	62:D3:192:U:H1'	2.53	0.43
62:D3:1546:G:H2'	62:D3:1547:A:H8	1.83	0.43
62:D3:1650:U:C2	62:D3:1651:A:C8	3.07	0.43
62:D3:1682:U:O2'	62:D3:1683:C:H6	2.01	0.43
63:D4:1:G:C6	63:D4:3:C:C4	3.06	0.43
1:CA:116:SER:HB2	1:CA:120:GLU:OE1	2.18	0.43
2:DA:65:VAL:O	2:DA:65:VAL:HG13	2.18	0.43
4:UB:423:GLY:O	4:UB:426:THR:OG1	2.33	0.43
6:UD:100:GLU:N	6:UD:117:ILE:O	2.51	0.43
7:UE:10:TYR:HE2	7:UE:293:ASN:O	2.00	0.43
7:UE:94:GLU:OE2	7:UE:96:THR:OG1	2.34	0.43
8:UF:167:ILE:HD11	16:UN:327:PHE:HA	2.01	0.43
12:UJ:363:LEU:HB2	12:UJ:399:GLN:CD	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:UJ:401:VAL:HA	12:UJ:404:PHE:HD2	1.83	0.43
12:UJ:773:GLN:O	12:UJ:776:VAL:HG12	2.19	0.43
12:UJ:1505:LEU:HD11	12:UJ:1554:TRP:CD1	2.53	0.43
12:UJ:1590:ILE:HA	12:UJ:1593:TYR:CD2	2.53	0.43
13:UK:138:ASP:HA	18:UP:181:LEU:HD22	2.00	0.43
15:UM:137:THR:HG1	15:UM:138:HIS:CE1	2.36	0.43
15:UM:170:GLY:HA3	15:UM:189:HIS:O	2.18	0.43
17:UO:68:SER:O	17:UO:317:HIS:NE2	2.47	0.43
19:UQ:330:SER:OG	19:UQ:331:GLN:N	2.52	0.43
20:UR:278:ASP:HB2	20:UR:281:THR:O	2.18	0.43
20:UR:513:GLN:OE1	20:UR:513:GLN:N	2.51	0.43
22:UT:1208:MET:HE1	22:UT:1210:PHE:CB	2.49	0.43
22:UT:1352:LEU:HD23	22:UT:1401:ASN:ND2	2.33	0.43
22:UT:1428:THR:HG23	22:UT:1429:LYS:N	2.32	0.43
22:UT:2357:LYS:HA	22:UT:2360:CYS:SG	2.58	0.43
23:UU:60:ILE:HD11	23:UU:90:VAL:HG21	2.00	0.43
23:UU:490:GLN:NE2	54:DQ:99:GLU:OE1	2.51	0.43
24:UV:505:ASP:OD1	24:UV:505:ASP:N	2.52	0.43
24:UV:692:LYS:H	24:UV:692:LYS:HD2	1.83	0.43
26:CD:7:LEU:HB3	26:CD:99:ALA:HB3	2.01	0.43
27:CE:309:LEU:HG	27:CE:371:LEU:CD2	2.46	0.43
29:CH:180:LYS:H	29:CH:180:LYS:HD3	1.83	0.43
29:CH:492:TRP:HA	29:CH:519:GLY:O	2.19	0.43
31:CJ:225:ALA:HB2	32:CK:365:LEU:HD11	2.01	0.43
33:CL:129:ILE:HG12	33:CL:158:ILE:HD13	2.00	0.43
33:CL:267:ARG:HH12	33:CL:798:MET:HB2	1.84	0.43
33:CL:840:LYS:HG2	33:CL:841:THR:O	2.18	0.43
34:CM:7:LYS:N	34:CM:30:PRO:HB2	2.34	0.43
36:JD:730:TYR:HB2	36:JD:754:SER:HB3	1.99	0.43
36:JD:756:LEU:HD23	36:JD:756:LEU:H	1.83	0.43
36:JD:840:PRO:HB2	36:JD:842:ILE:HG12	2.00	0.43
36:JD:1164:LYS:HB3	36:JD:1166:ARG:NH1	2.33	0.43
37:JF:41:MET:HB3	37:JF:110:LEU:CB	2.48	0.43
37:JG:55:ILE:O	37:JG:63:ASP:N	2.51	0.43
40:JL:129:THR:OG1	40:JL:130:PRO:HD2	2.18	0.43
44:JJ:180:LEU:HD23	44:JJ:180:LEU:HA	1.76	0.43
46:DF:157:ARG:HB2	46:DF:224:ASN:HD21	1.84	0.43
52:DN:112:LYS:NZ	62:D3:975:C:OP1	2.49	0.43
53:DO:84:ARG:HG2	53:DO:85:ALA:O	2.18	0.43
56:DT:113:ILE:O	56:DT:125:SER:HB3	2.18	0.43
58:DX:66:SER:O	58:DX:69:ARG:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:D3:69:G:H2'	62:D3:70:C:H6	1.83	0.43
62:D3:72:A:H1'	62:D3:73:U:H5'	2.00	0.43
62:D3:416:A:OP2	62:D3:417:A:N6	2.35	0.43
62:D3:1465:C:C2	62:D3:1466:G:C8	3.05	0.43
62:D3:1667:A:H2'	62:D3:1668:G:H8	1.84	0.43
62:D3:1707:A:H2'	62:D3:1708:U:C6	2.54	0.43
62:D3:1800:A:C4	62:D3:1801:A:C8	3.07	0.43
1:CA:90:PRO:HA	1:CA:97:TYR:HD1	1.83	0.43
2:DA:30:PHE:CE2	2:DA:94:LYS:HA	2.53	0.43
2:DA:129:THR:HG23	2:DA:131:ASP:H	1.84	0.43
3:UA:125:PRO:HB3	3:UA:135:PRO:HB2	2.01	0.43
3:UA:846:TYR:HE1	23:UU:909:LEU:HB3	1.81	0.43
1:CB:269:ILE:HB	1:CB:316:VAL:HG22	1.99	0.43
1:CB:289:GLU:HA	1:CB:292:LYS:NZ	2.34	0.43
4:UB:478:ILE:O	4:UB:481:MET:N	2.51	0.43
4:UB:731:ASP:HB3	4:UB:734:ARG:HG3	2.00	0.43
4:UB:769:GLU:HG3	4:UB:770:LYS:N	2.33	0.43
6:UD:180:ASP:OD1	6:UD:181:THR:OG1	2.33	0.43
6:UD:400:LYS:HA	6:UD:400:LYS:HD2	1.82	0.43
6:UD:563:LEU:O	12:UJ:639:ARG:NH1	2.43	0.43
9:UG:216:TYR:CD2	9:UG:261:PRO:HB3	2.53	0.43
10:UH:665:GLN:O	10:UH:668:ILE:HG22	2.19	0.43
12:UJ:351:TYR:CZ	12:UJ:355:ILE:HD11	2.54	0.43
12:UJ:564:VAL:O	12:UJ:568:ILE:HG12	2.19	0.43
12:UJ:801:ILE:O	12:UJ:805:ILE:HG12	2.19	0.43
12:UJ:1533:ASN:HB2	12:UJ:1581:LYS:HD2	2.00	0.43
13:UK:230:LYS:HB2	13:UK:230:LYS:NZ	2.34	0.43
14:UL:17:ILE:HG23	14:UL:52:TRP:HH2	1.84	0.43
14:UL:217:LEU:HD22	14:UL:231:LEU:CD2	2.48	0.43
14:UL:433:ALA:HA	14:UL:449:THR:HA	2.00	0.43
14:UL:619:MET:N	14:UL:633:CYS:O	2.52	0.43
15:UM:736:LEU:HD11	15:UM:767:HIS:CE1	2.53	0.43
16:UN:793:GLU:HA	44:JJ:129:ARG:HD2	1.99	0.43
17:UO:107:VAL:HG13	17:UO:118:LEU:HB3	1.99	0.43
19:UQ:47:PRO:HB2	19:UQ:88:ILE:HD13	2.01	0.43
19:UQ:220:HIS:ND1	61:D2:21:A:H5"	2.33	0.43
19:UQ:334:LEU:HB3	19:UQ:337:LEU:HD11	2.00	0.43
19:UQ:370:GLN:HG3	19:UQ:386:ASN:HB2	2.00	0.43
19:UQ:395:THR:OG1	19:UQ:424:GLN:NE2	2.50	0.43
19:UQ:685:ARG:HD2	19:UQ:687:GLN:CD	2.43	0.43
22:UT:461:ILE:HG23	22:UT:482:ARG:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:637:ASP:O	22:UT:641:ARG:HG3	2.19	0.43
22:UT:653:LYS:HD3	22:UT:654:THR:N	2.34	0.43
22:UT:822:SER:OG	22:UT:823:TRP:N	2.51	0.43
22:UT:1211:ILE:HB	22:UT:1216:VAL:HG11	2.00	0.43
22:UT:1888:THR:HG22	22:UT:1891:HIS:ND1	2.34	0.43
22:UT:2423:VAL:HA	22:UT:2426:PHE:CD2	2.51	0.43
24:UV:134:ILE:O	24:UV:138:ILE:HG13	2.19	0.43
24:UV:259:PHE:CD1	24:UV:295:LEU:HD11	2.53	0.43
24:UV:383:GLY:HA2	24:UV:583:ILE:HG23	2.01	0.43
26:CD:69:ILE:HD13	26:CD:69:ILE:HA	1.87	0.43
26:CD:181:LEU:HA	26:CD:181:LEU:HD23	1.68	0.43
27:CE:286:ASN:HB2	27:CE:374:ASP:CG	2.44	0.43
29:CH:256:ARG:NH1	29:CH:549:LEU:O	2.50	0.43
31:CJ:188:HIS:CE1	31:CJ:218:SER:HB2	2.53	0.43
31:CJ:279:ARG:HG3	62:D3:1597:A:H5'	2.00	0.43
34:CM:7:LYS:HG3	34:CM:8:TYR:HD2	1.82	0.43
35:CN:33:SER:OG	35:CN:34:LEU:N	2.52	0.43
35:CN:260:PHE:O	35:CN:264:GLU:HG2	2.19	0.43
36:JD:27:ARG:HD3	62:D3:356:G:OP1	2.19	0.43
36:JD:111:LYS:HD3	36:JD:111:LYS:HA	1.73	0.43
38:JH:222:LYS:HA	38:JH:254:TRP:HA	2.00	0.43
44:JJ:74:ASP:O	44:JJ:77:GLY:CA	2.66	0.43
55:DS:61:LEU:HA	55:DS:65:GLU:OE2	2.18	0.43
57:DW:65:LEU:HD12	57:DW:65:LEU:O	2.19	0.43
57:DW:112:ASP:OD1	57:DW:112:ASP:N	2.38	0.43
61:D2:10:C:H2'	61:D2:11:A:C8	2.53	0.43
62:D3:6:G:O6	62:D3:18:C:N4	2.35	0.43
62:D3:453:U:H2'	62:D3:454:U:H5"	2.00	0.43
62:D3:617:U:N3	62:D3:618:U:H5	2.17	0.43
62:D3:689:G:C4	62:D3:690:G:C8	3.07	0.43
62:D3:1087:A:C2	62:D3:1088:A:C5	3.06	0.43
62:D3:1481:C:H4'	62:D3:1482:C:OP1	2.19	0.43
62:D3:1563:C:H2'	62:D3:1564:U:H6	1.84	0.43
62:D3:1671:A:N6	62:D3:1730:A:HO2'	2.13	0.43
63:D4:168:C:H2'	63:D4:169:A:C8	2.52	0.43
74:EK:928:VAL:O	74:EK:936:GLU:HA	2.19	0.43
2:DA:33:LYS:HD2	2:DA:95:ASN:HD21	1.84	0.43
3:UA:245:LYS:HG3	3:UA:246:TYR:HD1	1.84	0.43
1:CB:89:GLU:OE2	13:UK:164:ASN:ND2	2.51	0.43
4:UB:96:LYS:NZ	4:UB:765:GLN:OE1	2.49	0.43
6:UD:273:ASN:HB3	6:UD:319:ARG:HH12	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:370:ARG:NH1	6:UD:372:MET:HE1	2.33	0.43
7:UE:163:LEU:HD23	7:UE:163:LEU:H	1.83	0.43
7:UE:284:LYS:HA	7:UE:284:LYS:HE2	1.99	0.43
8:UF:113:TYR:CE2	8:UF:132:ILE:HD12	2.54	0.43
9:UG:155:HIS:CE1	9:UG:194:ARG:NE	2.86	0.43
9:UG:415:GLU:O	9:UG:416:LEU:HD23	2.17	0.43
10:UH:130:ASN:HA	10:UH:145:ASP:C	2.44	0.43
12:UJ:230:LYS:HD3	12:UJ:233:GLN:NE2	2.34	0.43
12:UJ:579:ARG:HH12	12:UJ:635:TYR:HE1	1.65	0.43
12:UJ:715:HIS:CG	12:UJ:718:ARG:HH22	2.33	0.43
12:UJ:1688:ASN:O	12:UJ:1692:VAL:HG22	2.18	0.43
14:UL:612:PHE:HB2	62:D3:1140:G:C2	2.53	0.43
14:UL:799:LYS:HE3	14:UL:803:GLN:HG3	2.01	0.43
15:UM:30:LYS:NZ	15:UM:46:THR:HA	2.34	0.43
17:UO:153:ASP:OD1	17:UO:154:ILE:N	2.52	0.43
18:UP:195:GLU:OE1	18:UP:198:ILE:HG23	2.18	0.43
19:UQ:49:ASN:OD1	19:UQ:49:ASN:N	2.51	0.43
19:UQ:379:LEU:HD23	19:UQ:379:LEU:HA	1.84	0.43
19:UQ:557:ILE:CG2	19:UQ:575:THR:HB	2.49	0.43
20:UR:133:ILE:HD11	27:CE:436:ALA:HA	1.99	0.43
20:UR:164:LEU:O	20:UR:167:GLN:HB3	2.19	0.43
21:US:185:TYR:CE1	21:US:192:GLN:HG2	2.53	0.43
21:US:189:ALA:HB2	21:US:236:LEU:HB2	2.00	0.43
21:US:200:ASN:HD21	21:US:256:ASN:HA	1.83	0.43
22:UT:1595:SER:C	22:UT:1597:ILE:H	2.27	0.43
23:UU:718:LYS:O	23:UU:875:ASN:ND2	2.51	0.43
24:UV:108:ASP:HA	24:UV:111:LEU:HG	2.00	0.43
24:UV:110:LEU:HD13	24:UV:113:GLN:OE1	2.18	0.43
24:UV:426:ILE:HG22	24:UV:496:LEU:HD22	2.00	0.43
24:UV:917:LYS:NZ	24:UV:935:GLU:OE2	2.49	0.43
27:CE:180:TYR:HB3	27:CE:262:ILE:HD11	1.99	0.43
27:CE:418:LYS:HB3	27:CE:418:LYS:HE3	1.78	0.43
28:CF:57:ASP:OD1	28:CF:83:SER:HA	2.18	0.43
28:CG:57:ASP:OD1	28:CG:83:SER:HA	2.18	0.43
31:CJ:222:ILE:CD1	31:CJ:235:GLN:HG2	2.48	0.43
32:CK:504:ASP:OD1	32:CK:504:ASP:N	2.52	0.43
33:CL:174:LEU:CD1	33:CL:206:TYR:HB3	2.48	0.43
33:CL:879:THR:HG22	33:CL:880:TYR:N	2.34	0.43
34:CM:29:LYS:HZ1	34:CM:332:ILE:C	2.18	0.43
35:CN:211:GLY:O	43:Db:80:ARG:NE	2.52	0.43
37:JF:128:VAL:HG22	37:JF:159:LEU:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:JM:52:PHE:O	41:JM:56:GLU:HG2	2.19	0.43
43:Db:7:LEU:H	57:DW:24:GLN:NE2	2.15	0.43
44:JJ:126:LEU:HD12	44:JJ:126:LEU:HA	1.88	0.43
49:DI:40:ALA:O	49:DI:59:ARG:NH1	2.51	0.43
62:D3:447:U:H2'	62:D3:448:C:O4'	2.18	0.43
62:D3:580:A:C6	62:D3:581:U:N3	2.86	0.43
62:D3:647:G:N2	62:D3:688:G:N3	2.65	0.43
62:D3:655:G:H1'	62:D3:656:G:C8	2.53	0.43
62:D3:875:G:O2'	62:D3:877:G:OP2	2.33	0.43
72:EI:238:GLN:O	72:EI:242:ALA:N	2.49	0.43
3:UA:220:PHE:HE1	3:UA:247:SER:HA	1.84	0.43
3:UA:518:VAL:HG12	3:UA:534:THR:HG22	2.00	0.43
1:CB:172:TYR:CE1	1:CB:241:PHE:HD2	2.37	0.43
5:UC:602:LEU:HD12	5:UC:602:LEU:HA	1.79	0.43
6:UD:534:LEU:HD23	6:UD:543:ILE:HA	2.01	0.43
7:UE:54:GLU:HG2	7:UE:55:ASP:N	2.33	0.43
9:UG:448:SER:O	9:UG:448:SER:OG	2.36	0.43
10:UH:170:LYS:HA	10:UH:177:SER:HA	2.01	0.43
10:UH:668:ILE:HG13	10:UH:671:ARG:CZ	2.49	0.43
11:UI:428:ASP:OD1	11:UI:428:ASP:N	2.52	0.43
12:UJ:170:SER:OG	12:UJ:171:GLU:N	2.49	0.43
12:UJ:194:SER:HB2	23:UU:335:VAL:HG11	2.00	0.43
12:UJ:231:LEU:HD23	12:UJ:231:LEU:HA	1.69	0.43
12:UJ:400:LEU:HG	12:UJ:404:PHE:HE2	1.84	0.43
12:UJ:1479:SER:O	12:UJ:1482:GLU:HG3	2.18	0.43
13:UK:22:ARG:NH1	33:CL:937:PHE:CG	2.84	0.43
13:UK:163:GLU:HG2	13:UK:164:ASN:N	2.34	0.43
15:UM:291:ILE:HB	15:UM:305:VAL:HG13	2.00	0.43
15:UM:431:ILE:HG13	15:UM:432:GLY:H	1.84	0.43
17:UO:5:ARG:HD3	19:UQ:336:ARG:NH2	2.34	0.43
17:UO:192:LEU:O	17:UO:194:ARG:HD2	2.17	0.43
17:UO:226:ILE:HD11	17:UO:239:LEU:HD23	2.01	0.43
17:UO:303:LEU:HG	17:UO:323:SER:HB3	2.00	0.43
17:UO:389:GLU:O	17:UO:392:ILE:HG22	2.19	0.43
19:UQ:152:ARG:NH2	19:UQ:231:PHE:HA	2.33	0.43
20:UR:238:LEU:HD13	20:UR:588:LEU:HD23	2.01	0.43
22:UT:324:SER:OG	22:UT:325:GLU:N	2.52	0.43
22:UT:358:VAL:HG13	22:UT:362:PHE:HE2	1.84	0.43
22:UT:1780:ARG:HA	22:UT:1860:ASN:HD21	1.83	0.43
22:UT:1910:VAL:O	22:UT:1914:THR:HG23	2.19	0.43
24:UV:417:SER:O	24:UV:421:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UV:765:LEU:HD23	24:UV:765:LEU:HA	1.63	0.43
26:CD:206:LEU:HD13	26:CD:251:VAL:HG21	2.01	0.43
27:CE:391:ARG:HA	27:CE:394:VAL:HG12	2.00	0.43
30:CI:163:ASN:HA	30:CI:183:SER:O	2.17	0.43
34:CM:233:GLU:OE2	34:CM:233:GLU:N	2.37	0.43
36:JD:28:ASN:O	36:JD:32:THR:HG22	2.19	0.43
36:JD:514:ILE:HG13	36:JD:556:ILE:HB	1.99	0.43
37:JF:42:ILE:HB	37:JF:203:CYS:SG	2.59	0.43
37:JG:40:ARG:HH12	37:JG:111:GLN:CD	2.26	0.43
40:JL:128:ASN:HA	40:JL:154:MET:HG3	2.00	0.43
42:JP:53:MET:HE2	42:JP:54:PHE:CE1	2.53	0.43
42:JP:226:LYS:HD2	42:JP:267:ILE:O	2.18	0.43
42:JP:348:MET:HE2	42:JP:351:VAL:CG2	2.48	0.43
45:DE:31:PRO:HD2	45:DE:38:LEU:HD11	2.01	0.43
46:DF:146:THR:HG21	46:DF:220:VAL:HG12	1.99	0.43
53:DO:52:ARG:HG2	62:D3:905:A:H5"	2.00	0.43
56:DT:84:LYS:HB2	56:DT:84:LYS:HE3	1.78	0.43
62:D3:1656:U:OP1	62:D3:1657:U:H5"	2.18	0.43
75:EN:660:VAL:O	75:EN:664:VAL:N	2.43	0.43
2:DA:119:THR:HG23	2:DA:155:TYR:HA	2.01	0.43
2:DA:144:ARG:HB3	2:DA:208:GLN:CG	2.48	0.43
3:UA:192:ASP:OD2	3:UA:211:LYS:HD3	2.19	0.43
3:UA:541:ILE:HB	3:UA:551:GLY:O	2.19	0.43
1:CB:301:LEU:HD11	1:CB:319:ARG:HG3	2.00	0.43
4:UB:6:LEU:HD22	31:CJ:219:GLU:HG2	2.01	0.43
4:UB:536:SER:OG	4:UB:538:LYS:HG2	2.19	0.43
5:UC:556:LYS:HA	5:UC:559:ARG:HG3	1.99	0.43
6:UD:188:ALA:HB2	6:UD:207:ASP:OD1	2.17	0.43
6:UD:459:LYS:HA	6:UD:459:LYS:HD2	1.85	0.43
7:UE:504:TRP:O	7:UE:508:ILE:HG13	2.18	0.43
9:UG:69:GLU:OE2	42:JP:13:TYR:OH	2.26	0.43
12:UJ:145:THR:CG2	12:UJ:147:VAL:HG12	2.49	0.43
12:UJ:648:LYS:HD2	12:UJ:648:LYS:HA	1.85	0.43
12:UJ:1355:ILE:HG21	12:UJ:1399:ALA:HB1	2.00	0.43
13:UK:3:LYS:HG3	13:UK:4:LEU:N	2.33	0.43
13:UK:106:TYR:CZ	13:UK:110:LEU:HD21	2.54	0.43
14:UL:88:HIS:N	14:UL:129:PHE:HZ	2.17	0.43
14:UL:405:LEU:C	14:UL:406:LEU:HD22	2.44	0.43
15:UM:420:ASN:O	15:UM:421:SER:C	2.60	0.43
17:UO:33:ALA:HA	17:UO:329:ILE:O	2.19	0.43
17:UO:66:PHE:CZ	17:UO:73:VAL:HG22	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:UQ:237:LEU:HD12	19:UQ:238:SER:N	2.34	0.43
19:UQ:264:ILE:HG22	19:UQ:271:LEU:HG	2.00	0.43
19:UQ:676:THR:C	19:UQ:694:LEU:HB2	2.44	0.43
20:UR:176:LYS:HA	20:UR:179:ASP:HB3	1.99	0.43
21:US:188:PHE:CD1	21:US:239:PHE:HB2	2.54	0.43
21:US:349:LEU:HG	21:US:350:MET:HE2	2.01	0.43
22:UT:336:ILE:O	22:UT:340:ILE:HG12	2.18	0.43
22:UT:590:MET:CE	22:UT:703:PHE:HZ	2.26	0.43
22:UT:1477:LYS:O	22:UT:1480:SER:OG	2.31	0.43
22:UT:2375:GLU:OE1	22:UT:2375:GLU:N	2.43	0.43
23:UU:775:GLU:O	23:UU:777:ILE:HG23	2.18	0.43
24:UV:119:LYS:O	24:UV:122:LEU:HG	2.19	0.43
24:UV:248:LEU:O	24:UV:252:LEU:HD23	2.18	0.43
24:UV:379:MET:SD	24:UV:381:HIS:N	2.91	0.43
24:UV:529:VAL:O	24:UV:612:PHE:HB2	2.19	0.43
24:UV:1022:MET:HE3	24:UV:1026:ASN:OD1	2.18	0.43
26:CD:14:GLY:HA2	26:CD:56:PHE:CE1	2.54	0.43
26:CD:222:PHE:HD2	26:CD:223:ILE:HG13	1.84	0.43
27:CE:128:LEU:HD13	27:CE:134:ASN:O	2.19	0.43
27:CE:326:LEU:HA	27:CE:337:PRO:HD2	2.00	0.43
32:CK:481:PRO:HB2	32:CK:483:TYR:CE2	2.54	0.43
33:CL:613:PRO:HA	34:CM:321:ARG:HH12	1.84	0.43
36:JD:534:ARG:HH12	36:JD:865:PHE:HA	1.83	0.43
36:JD:542:LEU:HD22	36:JD:547:PRO:HB3	2.01	0.43
36:JD:572:THR:HG22	36:JD:576:ILE:HG23	2.00	0.43
36:JD:723:GLN:NE2	36:JD:726:ASN:HD22	2.17	0.43
36:JD:886:LEU:O	36:JD:913:LYS:NZ	2.51	0.43
36:JD:1035:MET:O	36:JD:1039:VAL:HG13	2.18	0.43
36:JD:1085:CYS:HB2	36:JD:1173:ILE:HD12	2.01	0.43
42:JP:120:GLN:N	42:JP:120:GLN:OE1	2.52	0.43
42:JP:224:SER:C	42:JP:225:LEU:HD12	2.43	0.43
45:DE:107:GLY:HA2	45:DE:189:LEU:HD11	2.01	0.43
45:DE:228:ILE:HD13	45:DE:228:ILE:HG21	1.78	0.43
46:DF:48:PHE:CE1	46:DF:130:ILE:HD13	2.52	0.43
51:DL:53:TYR:CD2	51:DL:113:PRO:HG2	2.54	0.43
52:DN:53:LEU:HD23	52:DN:53:LEU:HA	1.82	0.43
55:DS:32:LEU:HA	55:DS:35:ILE:HG12	2.00	0.43
60:Dc:42:ARG:HD2	60:Dc:42:ARG:HA	1.69	0.43
62:D3:982:U:H2'	62:D3:983:A:H8	1.84	0.43
63:D4:156:U:H4'	63:D4:157:A:OP2	2.18	0.43
3:UA:145:HIS:CE1	3:UA:165:SER:HG	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UA:562:GLY:HA3	3:UA:625:GLY:C	2.44	0.43
1:CB:251:ARG:HH12	1:CB:255:LEU:CG	2.28	0.43
4:UB:568:PHE:CD2	4:UB:643:LEU:HD12	2.53	0.43
6:UD:624:LYS:HA	6:UD:627:LYS:HD2	2.01	0.43
7:UE:307:GLN:HG2	7:UE:313:TYR:CE2	2.53	0.43
8:UF:120:ARG:HG2	8:UF:120:ARG:HH11	1.83	0.43
11:UI:446:TRP:CZ2	11:UI:492:ILE:HD12	2.53	0.43
12:UJ:683:SER:O	12:UJ:687:LEU:HG	2.19	0.43
12:UJ:755:ARG:HA	12:UJ:755:ARG:HD2	1.75	0.43
12:UJ:1351:SER:O	12:UJ:1355:ILE:HG12	2.18	0.43
14:UL:213:LYS:N	14:UL:216:LEU:O	2.44	0.43
14:UL:661:TRP:HE1	14:UL:677:HIS:HB2	1.84	0.43
14:UL:891:LEU:HD23	14:UL:891:LEU:HA	1.76	0.43
15:UM:364:ILE:HD13	15:UM:364:ILE:HA	1.84	0.43
15:UM:414:VAL:HB	15:UM:428:ALA:CB	2.49	0.43
17:UO:192:LEU:H	17:UO:211:HIS:N	2.10	0.43
17:UO:217:ASN:HB3	17:UO:219:ILE:HD11	2.00	0.43
17:UO:364:SER:O	20:UR:270:LYS:NZ	2.51	0.43
19:UQ:624:HIS:HB3	19:UQ:631:GLN:HB2	2.01	0.43
19:UQ:724:ILE:HD13	19:UQ:762:TYR:CZ	2.54	0.43
21:US:284:ARG:O	21:US:287:PRO:HD2	2.18	0.43
21:US:432:VAL:HG12	21:US:436:LYS:NZ	2.34	0.43
22:UT:316:LYS:HG3	22:UT:729:TRP:CZ3	2.54	0.43
22:UT:371:VAL:O	22:UT:375:THR:HG23	2.19	0.43
22:UT:435:PHE:CD2	22:UT:435:PHE:C	2.97	0.43
22:UT:1479:ASN:HD22	22:UT:1483:HIS:CD2	2.37	0.43
23:UU:93:ALA:HB1	23:UU:118:VAL:HG11	2.01	0.43
23:UU:192:ASN:HB3	23:UU:195:THR:OG1	2.19	0.43
23:UU:791:GLU:OE1	23:UU:791:GLU:HA	2.18	0.43
24:UV:352:THR:HG21	24:UV:398:ALA:HB1	2.01	0.43
24:UV:921:ASP:OD1	24:UV:1167:LYS:N	2.52	0.43
27:CE:68:VAL:HA	27:CE:72:LEU:HD12	2.00	0.43
27:CE:337:PRO:HA	63:D4:88:U:OP2	2.19	0.43
29:CH:459:LEU:HA	29:CH:459:LEU:HD23	1.74	0.43
33:CL:1105:ASP:OD1	33:CL:1108:LYS:HE3	2.18	0.43
37:JG:103:PRO:O	37:JG:106:LYS:HG3	2.18	0.43
40:JL:281:ILE:HD12	40:JL:310:PHE:HE1	1.82	0.43
42:JP:48:THR:HG22	42:JP:401:LYS:HE3	2.01	0.43
42:JP:52:ARG:NE	42:JP:52:ARG:HA	2.33	0.43
45:DE:187:ARG:HG3	62:D3:753:A:P	2.58	0.43
50:DJ:68:LYS:HE3	50:DJ:72:GLU:OE2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DX:117:ILE:HG22	58:DX:118:PRO:O	2.18	0.43
62:D3:501:U:O2'	62:D3:502:U:OP2	2.34	0.43
62:D3:676:G:C2	62:D3:677:G:C5	3.06	0.43
62:D3:1545:A:H2'	62:D3:1546:G:C8	2.53	0.43
62:D3:1787:C:H2'	62:D3:1788:G:C8	2.54	0.43
70:EG:49:HIS:O	70:EG:61:LEU:N	2.50	0.43
75:EN:513:ALA:O	75:EN:545:GLY:N	2.39	0.43
2:DA:32:ILE:HG22	2:DA:96:LEU:HD22	2.01	0.43
2:DA:87:ARG:HH12	2:DA:99:ASN:HD21	1.67	0.43
3:UA:78:ARG:HA	3:UA:78:ARG:HD2	1.90	0.43
3:UA:168:LEU:HA	3:UA:168:LEU:HD23	1.46	0.43
3:UA:431:ILE:HD11	3:UA:451:ASP:CB	2.44	0.43
3:UA:611:LEU:H	3:UA:611:LEU:HD23	1.84	0.43
3:UA:743:PHE:HD1	3:UA:743:PHE:HA	1.70	0.43
3:UA:849:LEU:HD22	23:UU:897:HIS:HB2	2.01	0.43
1:CB:170:VAL:O	1:CB:194:VAL:HA	2.19	0.43
6:UD:445:PRO:O	6:UD:474:SER:HB2	2.18	0.43
6:UD:612:THR:HG22	6:UD:614:TRP:H	1.84	0.43
7:UE:133:GLN:OE1	7:UE:133:GLN:N	2.52	0.43
7:UE:443:GLN:NE2	17:UO:252:ASN:HD21	2.09	0.43
7:UE:481:LEU:HD21	7:UE:502:VAL:HA	2.01	0.43
7:UE:541:LEU:HD12	10:UH:674:GLU:OE1	2.19	0.43
8:UF:44:ASN:C	8:UF:44:ASN:HD22	2.25	0.43
8:UF:268:ASP:HA	8:UF:271:LEU:HD13	2.00	0.43
8:UF:271:LEU:HD11	8:UF:334:LEU:HD22	2.00	0.43
9:UG:139:TRP:O	9:UG:139:TRP:CG	2.72	0.43
9:UG:378:VAL:HG23	9:UG:378:VAL:O	2.19	0.43
10:UH:564:ASN:O	10:UH:567:LEU:HG	2.19	0.43
10:UH:586:ILE:HG13	10:UH:587:LEU:N	2.34	0.43
10:UH:592:ARG:HG3	10:UH:640:LEU:CD2	2.49	0.43
11:UI:435:LEU:HB3	11:UI:439:LYS:NZ	2.34	0.43
13:UK:64:TYR:O	13:UK:67:MET:HG2	2.18	0.43
13:UK:106:TYR:CD1	27:CE:331:LYS:HA	2.54	0.43
14:UL:178:ILE:HD11	14:UL:231:LEU:HD11	2.01	0.43
14:UL:184:GLY:O	14:UL:201:ILE:HD12	2.19	0.43
14:UL:416:ILE:O	14:UL:425:ILE:N	2.38	0.43
14:UL:572:HIS:C	14:UL:574:LEU:H	2.27	0.43
14:UL:614:HIS:HB3	14:UL:634:SER:HB3	2.01	0.43
15:UM:228:LYS:HD3	15:UM:228:LYS:HA	1.77	0.43
15:UM:346:VAL:HG21	15:UM:354:ALA:HB2	2.00	0.43
15:UM:463:ILE:HD12	15:UM:487:ARG:NE	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:UN:764:VAL:HA	16:UN:767:GLU:OE1	2.19	0.43
19:UQ:413:SER:O	19:UQ:417:LEU:N	2.51	0.43
20:UR:156:ASN:CG	20:UR:159:HIS:HD1	2.27	0.43
20:UR:177:TRP:CH2	23:UU:232:MET:HE1	2.54	0.43
20:UR:298:CYS:HB3	20:UR:314:THR:HG23	2.00	0.43
20:UR:478:GLN:HG2	20:UR:479:ASN:O	2.18	0.43
20:UR:522:GLN:OE1	20:UR:568:VAL:HG23	2.19	0.43
21:US:252:LYS:NZ	21:US:256:ASN:HD21	2.16	0.43
21:US:278:LEU:HD22	21:US:315:VAL:HG13	2.00	0.43
21:US:358:PHE:O	21:US:362:MET:HG2	2.19	0.43
22:UT:491:LEU:O	22:UT:493:ASN:ND2	2.51	0.43
22:UT:923:PRO:O	22:UT:927:ARG:HG2	2.19	0.43
22:UT:1194:SER:O	22:UT:1198:PHE:HD2	2.02	0.43
22:UT:2180:LEU:O	22:UT:2183:LEU:HG	2.19	0.43
23:UU:656:ASN:O	23:UU:659:GLN:HB3	2.18	0.43
23:UU:915:VAL:O	23:UU:918:LYS:HB3	2.19	0.43
24:UV:205:THR:HG23	24:UV:294:LEU:HD13	2.01	0.43
24:UV:304:GLU:HB3	24:UV:307:LYS:HB2	2.01	0.43
24:UV:307:LYS:HD2	24:UV:312:ARG:HH12	1.84	0.43
26:CD:30:ARG:NH2	26:CD:122:GLU:OE2	2.52	0.43
27:CE:258:LEU:O	27:CE:262:ILE:HG12	2.19	0.43
29:CH:452:SER:CB	29:CH:460:ARG:HG2	2.49	0.43
30:CI:156:ASP:OD1	31:CJ:4:ARG:HG2	2.19	0.43
33:CL:758:ILE:O	33:CL:762:LEU:HD23	2.19	0.43
33:CL:1080:LYS:HA	33:CL:1080:LYS:HD3	1.86	0.43
34:CM:201:SER:O	34:CM:204:LEU:N	2.52	0.43
36:JD:110:ARG:O	36:JD:114:ILE:HG13	2.18	0.43
36:JD:632:ILE:O	36:JD:636:VAL:HG23	2.19	0.43
41:JM:185:LYS:HA	41:JM:188:LYS:HG2	2.01	0.43
46:DF:128:ASN:HB3	46:DF:131:GLN:HB3	2.00	0.43
56:DT:99:SER:HB2	56:DT:103:LYS:HZ1	1.82	0.43
57:DW:35:ILE:O	57:DW:39:GLN:HG3	2.19	0.43
62:D3:493:U:H2'	62:D3:494:U:C5	2.54	0.43
62:D3:1470:C:H2'	62:D3:1573:A:N7	2.34	0.43
63:D4:161:G:H2'	63:D4:162:U:C6	2.53	0.43
65:EB:260:THR:O	65:EB:264:CYS:N	2.48	0.43
75:EN:400:MET:O	75:EN:404:LYS:N	2.44	0.43
3:UA:492:SER:C	3:UA:494:ASP:H	2.27	0.42
4:UB:89:GLN:HE22	32:CK:358:THR:HA	1.84	0.42
6:UD:39:VAL:HG11	6:UD:755:ILE:HG23	2.00	0.42
6:UD:139:CYS:SG	6:UD:158:VAL:HG21	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:219:ASP:OD1	6:UD:220:GLU:N	2.51	0.42
6:UD:487:VAL:HA	6:UD:496:PHE:O	2.18	0.42
6:UD:519:THR:HG23	6:UD:522:SER:H	1.84	0.42
8:UF:28:GLU:HB3	20:UR:27:PHE:CZ	2.54	0.42
8:UF:130:HIS:CE1	16:UN:327:PHE:CD2	3.06	0.42
8:UF:183:TYR:CE1	8:UF:322:LEU:HD12	2.54	0.42
9:UG:146:ALA:HB2	9:UG:179:HIS:O	2.19	0.42
9:UG:222:GLY:HA3	30:CI:18:PHE:CE1	2.54	0.42
10:UH:657:ASN:O	10:UH:660:LEU:HG	2.19	0.42
12:UJ:121:LEU:HD12	12:UJ:121:LEU:HA	1.71	0.42
12:UJ:604:LEU:HD22	12:UJ:605:TYR:CZ	2.54	0.42
13:UK:125:LEU:HD21	13:UK:198:PHE:CE2	2.54	0.42
13:UK:250:ARG:HA	28:CF:94:SER:OG	2.18	0.42
14:UL:437:LYS:HD3	14:UL:437:LYS:HA	1.85	0.42
14:UL:881:ASN:CG	15:UM:810:LEU:HD11	2.44	0.42
14:UL:895:GLU:OE2	15:UM:793:PHE:HE1	2.01	0.42
15:UM:22:VAL:HG12	15:UM:291:ILE:HG22	2.00	0.42
15:UM:740:MET:HG2	15:UM:778:MET:HE1	2.01	0.42
17:UO:45:ILE:HG22	17:UO:304:SER:HB3	2.01	0.42
20:UR:134:LYS:H	27:CE:437:ALA:HB2	1.84	0.42
21:US:254:LYS:HB3	21:US:290:HIS:HB2	2.01	0.42
21:US:317:ILE:HG22	21:US:318:LEU:HD23	2.00	0.42
22:UT:833:LYS:HE2	22:UT:833:LYS:HB3	1.87	0.42
22:UT:926:LEU:HD23	22:UT:926:LEU:HA	1.74	0.42
22:UT:1289:ILE:C	22:UT:1293:ARG:HH12	2.27	0.42
22:UT:1896:ILE:HD13	22:UT:1896:ILE:HA	1.86	0.42
22:UT:2353:SER:OG	22:UT:2354:PHE:N	2.51	0.42
23:UU:192:ASN:HB2	23:UU:199:VAL:HG11	2.01	0.42
23:UU:511:ASP:C	23:UU:513:MET:H	2.27	0.42
24:UV:905:SER:CB	24:UV:981:LYS:HD2	2.49	0.42
24:UV:1080:LEU:HD11	24:UV:1085:ILE:HD11	2.00	0.42
24:UV:1141:GLU:HG2	35:CN:165:PHE:CZ	2.54	0.42
24:UV:1228:ASN:HD21	35:CN:164:SER:HB2	1.85	0.42
26:CD:173:HIS:CD2	27:CE:187:TRP:HE1	2.36	0.42
26:CD:229:LEU:HD11	26:CD:255:ALA:HB3	2.01	0.42
27:CE:66:GLY:C	27:CE:67:LYS:HG3	2.44	0.42
29:CH:141:LEU:HD11	29:CH:571:THR:OG1	2.18	0.42
29:CH:437:ARG:HD3	29:CH:437:ARG:HA	1.69	0.42
30:CI:40:ASN:CG	30:CI:41:ARG:N	2.77	0.42
31:CJ:139:LEU:HD22	31:CJ:157:PHE:HZ	1.84	0.42
31:CJ:211:ASN:OD1	31:CJ:212:ALA:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CK:348:ASP:OD1	32:CK:348:ASP:N	2.46	0.42
32:CK:433:ALA:O	32:CK:437:ILE:HG23	2.18	0.42
33:CL:1004:ARG:NH1	62:D3:558:U:OP1	2.50	0.42
35:CN:225:SER:O	35:CN:229:LYS:HG2	2.18	0.42
35:CN:259:ARG:HH22	52:DN:83:GLU:HA	1.83	0.42
36:JD:498:LEU:O	36:JD:502:MET:HG2	2.19	0.42
37:JG:167:ILE:H	37:JG:167:ILE:HD12	1.84	0.42
47:DG:137:ARG:HH22	62:D3:144:U:H5	1.67	0.42
56:DT:115:GLU:HG3	56:DT:123:ARG:HE	1.83	0.42
57:DW:32:LYS:O	57:DW:36:LYS:HG2	2.19	0.42
59:DY:90:ARG:HG2	59:DY:94:TYR:CE2	2.54	0.42
62:D3:1479:A:H2'	62:D3:1480:G:C8	2.54	0.42
1:CA:117:VAL:HG23	1:CA:118:TYR:HD1	1.84	0.42
3:UA:288:ASP:O	3:UA:292:PHE:HA	2.19	0.42
3:UA:605:ASP:OD1	3:UA:605:ASP:N	2.51	0.42
1:CB:214:ARG:HA	1:CB:215:PRO:HD3	1.90	0.42
6:UD:319:ARG:NE	6:UD:319:ARG:HA	2.34	0.42
6:UD:497:ILE:HD11	6:UD:555:LEU:HD22	2.00	0.42
8:UF:8:LEU:HD13	8:UF:37:THR:HG22	2.01	0.42
9:UG:115:HIS:CE1	9:UG:380:ASN:HD22	2.37	0.42
9:UG:171:LYS:HB2	9:UG:171:LYS:HE3	1.80	0.42
10:UH:230:VAL:O	10:UH:239:ASP:N	2.49	0.42
12:UJ:235:VAL:HG22	12:UJ:264:PHE:HE1	1.82	0.42
12:UJ:364:ASN:OD1	12:UJ:365:ILE:N	2.52	0.42
12:UJ:1472:VAL:O	12:UJ:1476:LEU:HD23	2.19	0.42
13:UK:206:GLN:O	13:UK:209:THR:HG22	2.19	0.42
14:UL:237:LYS:NZ	15:UM:671:ASN:HB2	2.34	0.42
14:UL:601:GLY:HA3	14:UL:608:HIS:CE1	2.54	0.42
15:UM:296:ILE:O	15:UM:298:SER:N	2.51	0.42
15:UM:353:LEU:HB3	15:UM:365:ILE:HG13	2.01	0.42
15:UM:568:MET:HG2	15:UM:569:LYS:HG2	2.00	0.42
15:UM:595:ALA:O	15:UM:619:ARG:HA	2.19	0.42
15:UM:736:LEU:HD23	15:UM:736:LEU:HA	1.80	0.42
17:UO:45:ILE:HD11	17:UO:55:PHE:CD2	2.54	0.42
17:UO:284:PHE:HE1	17:UO:292:VAL:HG22	1.85	0.42
19:UQ:193:TRP:CZ2	19:UQ:228:VAL:HG21	2.54	0.42
19:UQ:258:TYR:HD2	19:UQ:276:ALA:HB2	1.84	0.42
20:UR:211:ILE:O	20:UR:214:THR:HG22	2.19	0.42
21:US:156:TRP:CH2	21:US:219:TRP:HB2	2.54	0.42
21:US:286:ILE:HB	21:US:287:PRO:HD3	2.01	0.42
22:UT:129:ILE:O	22:UT:133:ILE:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1722:MET:HE2	22:UT:1722:MET:HB2	1.65	0.42
22:UT:2125:LEU:HD23	22:UT:2125:LEU:HA	1.76	0.42
22:UT:2137:ASP:O	22:UT:2141:VAL:HG13	2.20	0.42
23:UU:562:LEU:HD23	23:UU:562:LEU:HA	1.78	0.42
24:UV:497:ARG:HH22	24:UV:945:PRO:HG2	1.85	0.42
24:UV:793:PRO:HG2	24:UV:799:LEU:HA	2.02	0.42
24:UV:795:GLU:OE1	24:UV:798:SER:N	2.26	0.42
26:CD:233:SER:O	26:CD:237:LEU:HG	2.19	0.42
33:CL:300:GLN:HB3	33:CL:792:VAL:CG2	2.49	0.42
33:CL:841:THR:HG22	33:CL:860:TYR:H	1.84	0.42
36:JD:113:ILE:HG21	40:JL:301:ASN:CG	2.44	0.42
40:JL:133:ILE:HD12	40:JL:133:ILE:HA	1.91	0.42
40:JL:174:ARG:HH12	62:D3:1779:U:H3	1.67	0.42
42:JP:131:LYS:HB3	42:JP:155:TYR:HD2	1.85	0.42
42:JP:189:ARG:O	42:JP:190:GLU:HG2	2.19	0.42
44:JJ:107:THR:HB	44:JJ:108:PRO:HD3	2.01	0.42
44:JJ:185:PHE:CE1	44:JJ:244:ARG:HG3	2.54	0.42
45:DE:21:ASP:OD2	45:DE:24:SER:HB2	2.19	0.42
47:DG:7:TYR:O	47:DG:11:GLY:N	2.52	0.42
57:DW:12:ASN:ND2	62:D3:1036:A:H2	2.16	0.42
62:D3:198:A:H2'	62:D3:199:G:O4'	2.19	0.42
62:D3:486:G:H4'	62:D3:487:G:H5'	2.01	0.42
62:D3:984:G:C2	62:D3:985:G:C8	3.07	0.42
62:D3:1691:A:N6	62:D3:1710:U:O2	2.46	0.42
63:D4:95:A:H61	63:D4:321:C:H42	1.67	0.42
3:UA:13:THR:HG21	3:UA:16:ARG:NH1	2.35	0.42
3:UA:186:THR:OG1	3:UA:187:PHE:N	2.52	0.42
3:UA:755:TYR:CE1	3:UA:798:TRP:CD1	3.08	0.42
4:UB:422:LEU:O	4:UB:426:THR:HG23	2.20	0.42
4:UB:613:ILE:HG22	4:UB:638:ASN:HA	2.01	0.42
6:UD:309:GLN:HE21	6:UD:318:ASN:HA	1.84	0.42
6:UD:372:MET:HE2	6:UD:372:MET:N	2.34	0.42
8:UF:130:HIS:CE1	16:UN:327:PHE:HD2	2.36	0.42
8:UF:178:VAL:HG12	8:UF:181:LEU:H	1.84	0.42
8:UF:356:PRO:HB2	8:UF:357:GLU:OE1	2.19	0.42
11:UI:477:LYS:HB3	11:UI:477:LYS:HE2	1.66	0.42
12:UJ:1427:TYR:OH	12:UJ:1477:PHE:HA	2.19	0.42
12:UJ:1584:GLU:O	12:UJ:1587:ARG:NH2	2.52	0.42
13:UK:64:TYR:OH	33:CL:1080:LYS:HB2	2.18	0.42
14:UL:321:TYR:CZ	14:UL:325:ILE:HD11	2.54	0.42
14:UL:495:LYS:HG2	14:UL:532:ASP:C	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UL:546:LEU:HD21	14:UL:548:ILE:HD11	2.02	0.42
14:UL:596:ASN:HD22	62:D3:1140:G:H22	1.67	0.42
15:UM:737:ILE:HD12	15:UM:737:ILE:HA	1.88	0.42
17:UO:130:THR:C	17:UO:131:LYS:HD3	2.43	0.42
17:UO:133:HIS:CG	17:UO:136:ASP:HB3	2.54	0.42
17:UO:167:ALA:HA	17:UO:194:ARG:HH22	1.82	0.42
17:UO:395:PHE:HB3	61:D2:85:G:C6	2.54	0.42
17:UO:470:TYR:HB3	17:UO:473:THR:OG1	2.19	0.42
19:UQ:559:LYS:O	19:UQ:560:ILE:HD13	2.18	0.42
19:UQ:658:GLU:O	19:UQ:660:GLN:NE2	2.48	0.42
19:UQ:718:GLY:HA3	19:UQ:747:ASP:HA	2.00	0.42
20:UR:377:LEU:O	20:UR:384:ILE:HA	2.19	0.42
21:US:176:ILE:O	21:US:179:GLU:HG3	2.18	0.42
22:UT:1185:LEU:HA	22:UT:1189:LEU:HD12	2.01	0.42
22:UT:1316:MET:HE3	22:UT:1317:HIS:CE1	2.54	0.42
22:UT:2466:LYS:HD3	22:UT:2466:LYS:HA	1.89	0.42
24:UV:127:PHE:CD1	24:UV:283:TYR:HB3	2.54	0.42
24:UV:140:ASP:HA	24:UV:178:TYR:CE2	2.54	0.42
24:UV:519:ASP:OD1	24:UV:520:ASN:N	2.52	0.42
24:UV:900:GLU:OE1	24:UV:901:ASN:N	2.52	0.42
25:UX:79:LYS:HD3	57:DW:95:PRO:HA	2.02	0.42
25:UX:106:LEU:HA	25:UX:109:LEU:HD12	2.01	0.42
26:CD:213:ASN:OD1	26:CD:214:TYR:N	2.53	0.42
29:CH:149:PHE:HE1	29:CH:562:GLY:HA3	1.84	0.42
30:CI:57:LEU:HD23	30:CI:57:LEU:HA	1.84	0.42
30:CI:151:THR:HG22	30:CI:152:ARG:N	2.35	0.42
32:CK:410:ALA:O	32:CK:414:GLU:HG3	2.19	0.42
34:CM:26:LEU:HD23	34:CM:26:LEU:HA	1.65	0.42
34:CM:282:GLU:OE1	34:CM:291:ARG:N	2.41	0.42
36:JD:894:MET:HE3	36:JD:895:ILE:H	1.84	0.42
36:JD:1191:SER:OG	36:JD:1213:VAL:HG13	2.19	0.42
40:JL:293:LYS:HA	40:JL:293:LYS:HD2	1.79	0.42
42:JP:345:THR:HG21	63:D4:31:G:N7	2.35	0.42
46:DF:127:GLN:CG	46:DF:128:ASN:H	2.32	0.42
50:DJ:80:LEU:HD13	50:DJ:99:LEU:HD11	2.01	0.42
58:DX:97:ASP:OD1	58:DX:98:GLU:N	2.49	0.42
62:D3:4:C:OP2	62:D3:4:C:H6	2.01	0.42
62:D3:891:A:C4	62:D3:892:A:C8	3.08	0.42
62:D3:909:U:C4	62:D3:910:C:N4	2.88	0.42
62:D3:1157:A:C6	62:D3:1160:A:C4	3.07	0.42
62:D3:1546:G:H2'	62:D3:1547:A:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:D3:1668:G:H2'	62:D3:1669:U:C6	2.54	0.42
62:D3:1745:G:O3'	62:D3:1746:A:H8	2.02	0.42
75:EN:846:LEU:O	75:EN:850:TYR:N	2.51	0.42
3:UA:24:ASP:HA	3:UA:312:GLN:OE1	2.19	0.42
3:UA:531:ALA:HB2	3:UA:585:TYR:OH	2.19	0.42
3:UA:591:ALA:HA	3:UA:605:ASP:HA	2.01	0.42
6:UD:71:ARG:HD2	6:UD:77:GLU:OE2	2.20	0.42
6:UD:224:ARG:NH2	28:CF:11:LEU:O	2.45	0.42
6:UD:258:SER:HA	6:UD:282:ASP:CB	2.50	0.42
6:UD:268:GLN:C	6:UD:270:ALA:H	2.27	0.42
6:UD:396:GLU:OE2	6:UD:397:SER:OG	2.28	0.42
6:UD:414:TYR:C	6:UD:415:LYS:HD3	2.44	0.42
7:UE:75:ALA:O	7:UE:76:ILE:HD13	2.20	0.42
12:UJ:33:LEU:HA	12:UJ:33:LEU:HD23	1.81	0.42
12:UJ:210:LEU:HD12	12:UJ:210:LEU:HA	1.73	0.42
12:UJ:349:THR:HG21	12:UJ:379:GLU:HG2	2.02	0.42
12:UJ:670:LEU:HD12	12:UJ:671:LEU:N	2.35	0.42
12:UJ:1550:ILE:HG13	12:UJ:1551:LEU:N	2.34	0.42
12:UJ:1664:LYS:HD3	63:D4:145:U:H6	1.85	0.42
14:UL:125:THR:C	14:UL:126:LEU:HD22	2.44	0.42
14:UL:398:ASP:CG	14:UL:438:PHE:HD2	2.27	0.42
15:UM:554:ASP:OD1	15:UM:556:THR:OG1	2.37	0.42
21:US:233:ASP:OD1	21:US:233:ASP:N	2.50	0.42
22:UT:1632:LEU:HA	22:UT:1632:LEU:HD23	1.77	0.42
22:UT:1637:THR:O	22:UT:1641:GLN:HG2	2.19	0.42
22:UT:1862:LEU:H	22:UT:1862:LEU:HG	1.67	0.42
22:UT:2165:TYR:OH	22:UT:2180:LEU:O	2.37	0.42
23:UU:257:ARG:HD2	23:UU:303:PHE:HE1	1.84	0.42
23:UU:323:VAL:HB	23:UU:343:LEU:HD22	2.01	0.42
24:UV:237:HIS:O	24:UV:241:ILE:HG23	2.19	0.42
24:UV:939:ILE:O	24:UV:943:VAL:HG22	2.19	0.42
24:UV:976:ILE:HG21	24:UV:1017:TYR:CE1	2.53	0.42
26:CD:195:VAL:HG12	26:CD:216:PHE:HE2	1.83	0.42
28:CG:59:GLU:HB3	29:CH:450:ASP:OD1	2.20	0.42
31:CJ:4:ARG:HD2	31:CJ:7:ARG:HH21	1.83	0.42
32:CK:409:LEU:HD11	44:JJ:223:ARG:HG2	2.01	0.42
33:CL:772:MET:HE3	33:CL:774:PRO:HD2	2.00	0.42
35:CN:37:MET:HG2	35:CN:56:VAL:O	2.19	0.42
36:JD:631:GLU:O	36:JD:635:MET:HG2	2.19	0.42
36:JD:802:SER:O	36:JD:805:SER:OG	2.22	0.42
36:JD:1061:VAL:HG22	36:JD:1062:ILE:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:JL:193:LYS:N	40:JL:203:GLU:OE2	2.46	0.42
40:JL:288:THR:HB	40:JL:290:LEU:HD23	2.01	0.42
41:JM:57:THR:HG23	41:JM:61:LYS:NZ	2.35	0.42
42:JP:104:VAL:HG21	42:JP:150:ILE:HD12	2.02	0.42
47:DG:14:LYS:HE2	47:DG:16:PHE:HE1	1.85	0.42
49:DI:86:SER:OG	62:D3:328:A:N3	2.45	0.42
57:DW:31:SER:OG	57:DW:34:ILE:HG13	2.18	0.42
60:Dc:33:LEU:HD22	60:Dc:53:ILE:HD13	2.01	0.42
62:D3:138:A:N6	62:D3:266:A:H61	2.18	0.42
62:D3:1709:C:H2'	62:D3:1710:U:C6	2.54	0.42
62:D3:1740:A:H2'	62:D3:1741:U:C6	2.55	0.42
71:EH:76:ILE:O	71:EH:116:GLY:N	2.50	0.42
1:CA:81:ARG:HD3	41:JM:164:MET:HG3	2.01	0.42
1:CA:125:VAL:HG12	41:JM:150:GLY:HA3	2.00	0.42
2:DA:92:GLN:O	2:DA:92:GLN:HG3	2.18	0.42
3:UA:570:THR:CG2	3:UA:573:ASN:H	2.31	0.42
1:CB:170:VAL:HB	1:CB:194:VAL:HG22	2.00	0.42
1:CB:206:GLU:O	1:CB:209:SER:OG	2.22	0.42
4:UB:433:ILE:HG13	4:UB:434:ILE:N	2.34	0.42
4:UB:593:LEU:HD11	4:UB:596:TYR:CE1	2.55	0.42
6:UD:265:TRP:CD1	6:UD:272:LEU:HB3	2.55	0.42
12:UJ:225:SER:O	12:UJ:225:SER:OG	2.36	0.42
12:UJ:328:ASP:O	12:UJ:331:SER:OG	2.30	0.42
13:UK:61:ASP:CG	30:CI:120:MET:HE1	2.45	0.42
13:UK:63:TYR:OH	13:UK:68:HIS:HE1	2.01	0.42
13:UK:98:LEU:HD21	13:UK:107:VAL:HG22	2.01	0.42
14:UL:41:LEU:HB2	14:UL:54:ILE:HD11	2.01	0.42
14:UL:147:VAL:HG12	14:UL:156:LEU:HD13	2.01	0.42
14:UL:402:ASP:OD1	14:UL:404:LYS:HE3	2.20	0.42
14:UL:671:PHE:CB	14:UL:684:TRP:O	2.66	0.42
17:UO:314:GLY:HA2	17:UO:334:LYS:HD2	2.01	0.42
17:UO:392:ILE:HG13	17:UO:424:ARG:CZ	2.49	0.42
17:UO:484:MET:SD	17:UO:484:MET:C	3.03	0.42
19:UQ:37:LEU:HD23	19:UQ:38:SER:O	2.19	0.42
19:UQ:154:LEU:HD12	19:UQ:171:TYR:CD2	2.54	0.42
19:UQ:317:TRP:NE1	19:UQ:488:LEU:HD21	2.30	0.42
19:UQ:535:ASN:HB2	19:UQ:538:GLU:OE1	2.20	0.42
19:UQ:716:ARG:NH2	19:UQ:770:TYR:O	2.52	0.42
19:UQ:768:TRP:HB3	19:UQ:774:PHE:CD2	2.54	0.42
21:US:188:PHE:CG	21:US:239:PHE:HB2	2.54	0.42
21:US:387:THR:OG1	21:US:395:ILE:HD12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1225:ILE:HB	22:UT:1267:THR:HG21	2.00	0.42
22:UT:1273:LYS:HB2	22:UT:1349:PHE:CD1	2.55	0.42
22:UT:1300:SER:HA	22:UT:1303:LYS:HD2	2.01	0.42
22:UT:1647:SER:O	22:UT:1651:ARG:HG3	2.19	0.42
22:UT:2106:LEU:HA	22:UT:2109:VAL:HG12	2.02	0.42
22:UT:2137:ASP:O	22:UT:2140:ILE:HG12	2.20	0.42
22:UT:2379:GLU:OE2	22:UT:2382:LYS:NZ	2.30	0.42
23:UU:285:HIS:HD2	23:UU:339:PRO:HB3	1.85	0.42
23:UU:607:SER:HB3	23:UU:625:VAL:O	2.19	0.42
24:UV:758:SER:HB3	24:UV:763:THR:HG23	2.02	0.42
24:UV:814:LEU:HD21	24:UV:821:TYR:HB2	2.01	0.42
32:CK:335:ARG:NH1	32:CK:340:LEU:HD13	2.35	0.42
32:CK:350:THR:CG2	33:CL:975:GLU:HB3	2.42	0.42
33:CL:14:LYS:NZ	33:CL:19:LYS:HD3	2.34	0.42
33:CL:82:LYS:HE2	77:CL:2001:GTP:O1B	2.20	0.42
33:CL:92:ARG:C	33:CL:92:ARG:HD3	2.45	0.42
33:CL:764:ILE:HG21	34:CM:181:HIS:HE1	1.85	0.42
33:CL:1113:ILE:O	33:CL:1117:LEU:HD23	2.19	0.42
34:CM:68:SER:HB3	34:CM:73:THR:HG22	2.02	0.42
34:CM:241:TRP:NE1	34:CM:262:GLY:HA3	2.35	0.42
36:JD:454:ALA:HB2	36:JD:767:SER:HB2	2.02	0.42
36:JD:476:GLN:HG3	36:JD:480:ASP:O	2.20	0.42
36:JD:1187:LEU:HD23	36:JD:1217:PHE:CE1	2.55	0.42
37:JF:236:VAL:HG21	37:JG:102:SER:HA	2.00	0.42
47:DG:52:ILE:HD12	47:DG:109:LEU:HD21	2.02	0.42
49:DI:113:PHE:CD1	49:DI:121:LEU:HG	2.55	0.42
55:DS:38:VAL:HB	55:DS:42:TYR:CD2	2.55	0.42
58:DX:60:GLU:N	58:DX:60:GLU:OE2	2.50	0.42
61:D2:288:G:N2	63:D4:66:U:O2	2.50	0.42
62:D3:276:C:C4	62:D3:278:U:N3	2.85	0.42
62:D3:455:C:H3'	62:D3:456:A:C8	2.54	0.42
62:D3:717:C:H42	62:D3:720:G:N2	2.17	0.42
62:D3:1739:C:H2'	62:D3:1740:A:H8	1.83	0.42
63:D4:255:U:H4'	63:D4:256:G:OP2	2.19	0.42
63:D4:314:C:H2'	63:D4:315:A:H8	1.84	0.42
1:CA:301:LEU:HD23	1:CA:301:LEU:HA	1.83	0.42
2:DA:197:ILE:O	2:DA:201:THR:HG23	2.20	0.42
3:UA:328:LEU:CD2	3:UA:330:TYR:HB2	2.50	0.42
3:UA:792:ILE:HD13	3:UA:792:ILE:HG21	1.84	0.42
3:UA:793:GLU:CD	23:UU:721:LEU:HB2	2.44	0.42
6:UD:257:ASP:OD1	6:UD:261:SER:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:622:LEU:HB2	6:UD:627:LYS:HE3	2.01	0.42
7:UE:66:VAL:HG22	7:UE:112:LEU:HD22	2.01	0.42
7:UE:437:VAL:HG11	7:UE:456:VAL:HG23	2.01	0.42
8:UF:299:LYS:HD2	8:UF:300:MET:N	2.34	0.42
9:UG:74:LEU:HB3	9:UG:368:TYR:OH	2.19	0.42
9:UG:195:HIS:NE2	9:UG:236:MET:O	2.53	0.42
12:UJ:94:LEU:HD23	12:UJ:94:LEU:HA	1.91	0.42
12:UJ:413:ASP:HB2	12:UJ:417:LYS:HZ3	1.84	0.42
12:UJ:716:PHE:O	12:UJ:720:LEU:HD23	2.18	0.42
13:UK:196:LYS:HA	13:UK:199:LYS:HG2	2.01	0.42
14:UL:170:TRP:CE2	14:UL:212:VAL:HB	2.55	0.42
14:UL:623:PHE:CD1	14:UL:630:PHE:HB3	2.52	0.42
14:UL:656:HIS:CE1	14:UL:660:VAL:HG22	2.55	0.42
15:UM:154:GLY:HA3	15:UM:161:TRP:CZ3	2.55	0.42
15:UM:199:ILE:HD12	15:UM:199:ILE:HA	1.90	0.42
15:UM:295:PRO:HA	15:UM:302:MET:SD	2.60	0.42
15:UM:356:ALA:HB2	15:UM:394:LEU:HB2	2.02	0.42
17:UO:40:ASN:CB	17:UO:60:SER:HB3	2.49	0.42
17:UO:104:LEU:HG	17:UO:121:ASN:HA	2.02	0.42
17:UO:401:LEU:HG	17:UO:405:PHE:CE2	2.55	0.42
17:UO:431:LEU:C	17:UO:434:ARG:NH1	2.78	0.42
19:UQ:213:LYS:HZ1	19:UQ:222:HIS:HB2	1.84	0.42
19:UQ:660:GLN:HB3	19:UQ:707:MET:HB2	2.02	0.42
19:UQ:779:ILE:HG13	19:UQ:780:GLU:N	2.35	0.42
20:UR:385:ASN:O	20:UR:386:ILE:HD13	2.20	0.42
21:US:262:LEU:HA	21:US:265:LEU:HG	2.01	0.42
22:UT:497:ILE:O	22:UT:501:LEU:HD23	2.20	0.42
22:UT:792:HIS:O	22:UT:794:VAL:N	2.52	0.42
22:UT:886:ASP:OD1	22:UT:886:ASP:N	2.52	0.42
22:UT:1289:ILE:O	22:UT:1293:ARG:NH1	2.53	0.42
22:UT:1302:SER:HA	22:UT:1305:VAL:HG22	2.01	0.42
22:UT:1545:VAL:HG21	22:UT:1608:GLU:O	2.19	0.42
22:UT:1662:SER:O	22:UT:1665:LEU:C	2.62	0.42
22:UT:1667:ALA:O	22:UT:1670:LEU:N	2.53	0.42
22:UT:1983:LEU:HD12	22:UT:1983:LEU:HA	1.71	0.42
22:UT:2387:LEU:HD21	22:UT:2416:ILE:HG21	2.02	0.42
23:UU:97:LYS:HG2	23:UU:111:GLU:HA	2.01	0.42
23:UU:470:GLN:HB2	23:UU:553:ARG:NH1	2.34	0.42
25:UX:143:HIS:O	25:UX:147:GLN:HG3	2.20	0.42
26:CD:124:ALA:O	26:CD:128:ILE:HG12	2.19	0.42
27:CE:127:LEU:O	27:CE:127:LEU:HD23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CE:299:LEU:HD23	27:CE:299:LEU:HA	1.90	0.42
29:CH:470:LEU:O	29:CH:471:GLN:NE2	2.49	0.42
33:CL:980:LEU:HD12	33:CL:980:LEU:HA	1.87	0.42
36:JD:1155:TYR:HB3	36:JD:1168:ASN:HB3	2.01	0.42
40:JL:163:LEU:HD22	40:JL:179:VAL:HG11	2.02	0.42
42:JP:331:ILE:O	42:JP:340:ARG:N	2.52	0.42
46:DF:87:CYS:SG	46:DF:88:PRO:HD2	2.59	0.42
47:DG:174:LYS:HB2	62:D3:79:C:H1'	2.01	0.42
52:DN:14:SER:HB2	62:D3:959:U:H5"	2.01	0.42
62:D3:575:C:H6	62:D3:575:C:H2'	1.66	0.42
62:D3:683:C:H2'	62:D3:684:A:H8	1.85	0.42
62:D3:1119:G:C5	63:D4:7:G:C2	3.08	0.42
62:D3:1666:U:C4	62:D3:1736:G:C6	3.08	0.42
62:D3:1801:A:H2'	62:D3:1802:A:H8	1.85	0.42
74:EK:567:GLY:HA2	74:EK:627:ILE:HA	2.02	0.42
2:DA:129:THR:HG22	2:DA:133:TYR:HB2	2.02	0.42
1:CB:306:LEU:HD11	1:CB:315:ILE:HG22	2.01	0.42
4:UB:487:LYS:HA	4:UB:487:LYS:HD2	1.80	0.42
7:UE:46:TRP:HB2	7:UE:48:GLU:OE2	2.20	0.42
7:UE:64:LYS:NZ	7:UE:111:ASP:OD1	2.52	0.42
7:UE:184:PHE:CE1	7:UE:220:GLY:HA2	2.54	0.42
9:UG:202:HIS:CD2	9:UG:437:LEU:HB2	2.54	0.42
10:UH:291:LYS:N	10:UH:305:VAL:O	2.52	0.42
12:UJ:1420:LEU:HA	12:UJ:1456:VAL:HG13	2.02	0.42
12:UJ:1626:LEU:O	12:UJ:1630:LEU:HD23	2.19	0.42
13:UK:202:LYS:HD3	13:UK:205:LEU:HD23	2.01	0.42
14:UL:802:GLU:OE1	14:UL:838:THR:HG22	2.19	0.42
15:UM:306:LEU:O	15:UM:309:GLN:N	2.52	0.42
15:UM:813:MET:HE3	15:UM:813:MET:HB2	1.78	0.42
17:UO:123:SER:H	17:UO:150:ARG:HH22	1.66	0.42
17:UO:403:ASN:O	17:UO:406:VAL:HG22	2.20	0.42
19:UQ:359:GLN:CG	19:UQ:361:THR:HB	2.49	0.42
19:UQ:535:ASN:H	19:UQ:538:GLU:CD	2.27	0.42
19:UQ:720:ILE:HD12	19:UQ:774:PHE:CD2	2.54	0.42
20:UR:241:ALA:O	20:UR:244:SER:HB3	2.19	0.42
21:US:195:PHE:CE2	21:US:222:LEU:HD21	2.54	0.42
21:US:336:ASN:HB3	21:US:339:MET:HB3	2.00	0.42
22:UT:181:LEU:HD12	22:UT:181:LEU:HA	1.81	0.42
22:UT:365:PHE:O	22:UT:369:SER:OG	2.33	0.42
22:UT:574:LEU:O	22:UT:577:HIS:HB3	2.19	0.42
22:UT:1123:TYR:CE2	22:UT:1166:HIS:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1215:HIS:O	22:UT:1218:SER:OG	2.28	0.42
22:UT:1325:LEU:HG	22:UT:1328:PHE:CD2	2.53	0.42
22:UT:1397:ILE:HG22	22:UT:1398:LEU:HD23	2.02	0.42
22:UT:1468:ARG:O	22:UT:1468:ARG:HD3	2.19	0.42
23:UU:30:ILE:HG22	23:UU:31:GLY:N	2.35	0.42
23:UU:35:ASN:CG	23:UU:55:GLY:H	2.28	0.42
23:UU:190:LEU:HD12	23:UU:190:LEU:HA	1.91	0.42
23:UU:580:GLN:HG2	23:UU:582:TRP:HE1	1.85	0.42
23:UU:612:TRP:CZ3	23:UU:619:CYS:HB2	2.55	0.42
23:UU:819:LYS:O	23:UU:823:GLU:OE1	2.38	0.42
24:UV:179:LYS:HB2	24:UV:210:PRO:HG2	2.02	0.42
24:UV:490:GLU:HG2	24:UV:949:PHE:HE2	1.83	0.42
26:CD:19:LYS:HB2	26:CD:51:VAL:HG21	2.02	0.42
26:CD:200:GLY:HA2	26:CD:204:PRO:HA	2.02	0.42
26:CD:229:LEU:HD13	26:CD:252:ILE:HA	2.00	0.42
28:CG:61:ILE:O	28:CG:65:LEU:HB2	2.19	0.42
29:CH:448:PHE:CD1	29:CH:461:LYS:HE2	2.55	0.42
30:CI:81:LYS:HE3	32:CK:445:VAL:HG23	2.00	0.42
33:CL:93:MET:HE3	33:CL:109:SER:OG	2.19	0.42
33:CL:863:THR:O	33:CL:865:SER:N	2.53	0.42
33:CL:966:ILE:HG23	33:CL:991:PHE:HE1	1.85	0.42
33:CL:1142:LEU:CD2	62:D3:493:U:H4'	2.47	0.42
36:JD:550:HIS:CE1	36:JD:552:LYS:HA	2.54	0.42
37:JF:147:LYS:O	37:JF:148:LEU:HG	2.20	0.42
37:JG:175:CYS:SG	37:JG:176:ARG:N	2.93	0.42
41:JM:174:LEU:O	41:JM:178:MET:HG2	2.20	0.42
42:JP:214:ASP:O	42:JP:215:LEU:HD23	2.19	0.42
42:JP:226:LYS:HG2	42:JP:227:PHE:O	2.19	0.42
49:DI:86:SER:O	62:D3:341:A:O2'	2.37	0.42
54:DQ:13:LYS:CG	54:DQ:14:LYS:H	2.30	0.42
62:D3:100:A:H2'	62:D3:101:U:O4'	2.20	0.42
62:D3:305:C:O5'	62:D3:305:C:H6	2.03	0.42
62:D3:373:G:H8	62:D3:373:G:OP2	2.03	0.42
62:D3:396:G:N2	62:D3:399:A:OP2	2.53	0.42
62:D3:886:U:H2'	62:D3:887:A:O4'	2.19	0.42
62:D3:977:A:C6	62:D3:1025:A:C4	3.07	0.42
62:D3:1120:U:H3	63:D4:5:A:H61	1.66	0.42
62:D3:1747:G:H2'	62:D3:1748:G:C8	2.52	0.42
72:EI:339:ASN:O	72:EI:343:SER:N	2.50	0.42
1:CA:257:SER:O	1:CA:261:LEU:HB3	2.20	0.42
2:DA:171:ILE:HD13	2:DA:171:ILE:HA	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UA:846:TYR:CD1	23:UU:909:LEU:HD12	2.55	0.42
7:UE:62:CYS:SG	7:UE:110:ILE:HB	2.60	0.42
7:UE:305:TRP:HE1	7:UE:307:GLN:HE22	1.67	0.42
8:UF:357:GLU:H	8:UF:357:GLU:CD	2.27	0.42
9:UG:51:GLU:O	9:UG:55:LYS:HG2	2.20	0.42
9:UG:220:SER:OG	9:UG:221:THR:N	2.53	0.42
9:UG:339:THR:C	9:UG:340:LEU:HD22	2.45	0.42
12:UJ:262:VAL:HG11	19:UQ:892:MET:SD	2.59	0.42
12:UJ:643:PRO:HG3	12:UJ:650:PHE:CD2	2.54	0.42
12:UJ:701:SER:HA	12:UJ:704:LYS:HG2	2.01	0.42
12:UJ:1539:MET:HG3	12:UJ:1544:PHE:CE1	2.55	0.42
12:UJ:1640:SER:OG	12:UJ:1643:ARG:HG2	2.20	0.42
12:UJ:1753:VAL:O	12:UJ:1757:GLU:HG3	2.20	0.42
14:UL:572:HIS:CG	14:UL:598:LYS:HZ3	2.38	0.42
14:UL:653:LEU:HD13	14:UL:684:TRP:CZ3	2.54	0.42
14:UL:762:GLU:HG3	14:UL:794:LEU:HD12	2.01	0.42
14:UL:814:MET:O	14:UL:817:LEU:N	2.52	0.42
15:UM:64:ILE:H	15:UM:64:ILE:HD12	1.84	0.42
16:UN:313:PHE:C	16:UN:315:LEU:N	2.77	0.42
16:UN:314:PRO:HG2	16:UN:886:LYS:HG3	2.02	0.42
16:UN:321:HIS:CE1	26:CD:90:SER:HG	2.37	0.42
19:UQ:68:PHE:CD1	19:UQ:74:LEU:HD13	2.55	0.42
19:UQ:313:LEU:HD11	19:UQ:346:VAL:HG13	2.01	0.42
19:UQ:447:LYS:HZ2	19:UQ:770:TYR:HB2	1.85	0.42
20:UR:490:PHE:CD2	28:CF:89:ARG:NE	2.88	0.42
21:US:223:VAL:HA	21:US:228:HIS:HE1	1.85	0.42
21:US:336:ASN:HB3	21:US:339:MET:CB	2.49	0.42
22:UT:103:LEU:HA	22:UT:103:LEU:HD23	1.79	0.42
22:UT:484:ILE:HD12	22:UT:484:ILE:HA	1.90	0.42
22:UT:505:PHE:CE2	22:UT:540:THR:HG22	2.54	0.42
22:UT:542:LEU:HB3	22:UT:578:TYR:CD2	2.53	0.42
22:UT:874:LEU:HD12	22:UT:874:LEU:O	2.19	0.42
22:UT:996:ARG:HH22	62:D3:133:U:C5'	2.32	0.42
22:UT:1089:PRO:HG2	22:UT:1090:ARG:HG2	2.02	0.42
22:UT:1125:ASP:CG	22:UT:1126:GLU:H	2.28	0.42
22:UT:1801:ASN:CG	22:UT:1882:ARG:HH21	2.27	0.42
22:UT:1811:ILE:HG13	22:UT:1812:LEU:N	2.35	0.42
22:UT:2255:HIS:ND1	22:UT:2300:THR:HG22	2.35	0.42
23:UU:53:CYS:SG	23:UU:54:VAL:N	2.93	0.42
23:UU:106:GLU:OE1	23:UU:108:HIS:N	2.52	0.42
23:UU:316:ASP:OD1	23:UU:318:SER:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UU:925:LEU:HD23	23:UU:925:LEU:HA	1.75	0.42
24:UV:394:THR:HA	24:UV:397:MET:HE3	2.01	0.42
24:UV:858:ARG:O	24:UV:862:LEU:HG	2.20	0.42
25:UX:115:ILE:HD12	25:UX:115:ILE:HA	1.89	0.42
26:CD:4:ILE:HG13	26:CD:4:ILE:O	2.19	0.42
27:CE:78:GLU:HG3	27:CE:78:GLU:O	2.20	0.42
27:CE:111:ALA:C	27:CE:113:THR:H	2.27	0.42
27:CE:219:SER:HA	27:CE:236:LYS:CD	2.48	0.42
28:CF:113:GLN:O	28:CF:114:ILE:C	2.62	0.42
29:CH:161:SER:HB2	29:CH:242:VAL:HG13	2.00	0.42
30:CI:122:GLU:HG2	30:CI:123:THR:HG23	2.02	0.42
32:CK:427:SER:O	32:CK:430:LEU:HB3	2.19	0.42
33:CL:118:LEU:HD11	33:CL:245:LEU:HD22	2.02	0.42
33:CL:246:ALA:HB3	33:CL:810:ILE:CG1	2.46	0.42
34:CM:103:MET:HE2	34:CM:103:MET:N	2.35	0.42
37:JF:29:PRO:HB2	37:JF:30:VAL:H	1.61	0.42
42:JP:89:ASP:HB3	42:JP:91:VAL:HG12	2.02	0.42
42:JP:433:GLU:O	42:JP:437:ILE:HG12	2.20	0.42
47:DG:83:CYS:HA	62:D3:161:U:O3’	2.19	0.42
48:DH:22:GLN:O	48:DH:26:GLU:HG3	2.19	0.42
49:DI:46:VAL:HG23	49:DI:54:LYS:HB3	2.00	0.42
49:DI:184:LEU:HD22	49:DI:188:GLU:HB3	2.02	0.42
50:DJ:109:LEU:HD22	50:DJ:129:ILE:CD1	2.50	0.42
53:DO:25:ASP:N	53:DO:55:SER:HB3	2.35	0.42
53:DO:129:LYS:NZ	62:D3:1009:U:OP2	2.35	0.42
55:DS:14:ILE:HD12	55:DS:22:VAL:C	2.45	0.42
57:DW:74:VAL:O	62:D3:1100:G:O2’	2.28	0.42
57:DW:77:PRO:HG2	57:DW:79:PHE:CE2	2.54	0.42
62:D3:1657:U:H4’	62:D3:1658:G:H5”	2.01	0.42
67:ED:345:SER:HA	67:ED:365:GLY:H	1.84	0.42
3:UA:73:ILE:HG21	3:UA:99:CYS:SG	2.60	0.42
3:UA:150:THR:HG22	3:UA:164:THR:O	2.19	0.42
3:UA:566:GLN:NE2	30:CI:144:ASN:HD22	2.18	0.42
3:UA:820:ALA:O	3:UA:824:ILE:HG12	2.20	0.42
4:UB:314:MET:O	4:UB:513:GLN:NE2	2.53	0.42
4:UB:604:VAL:HG13	4:UB:606:PHE:HD2	1.84	0.42
4:UB:678:PHE:HB3	4:UB:681:PRO:CG	2.50	0.42
6:UD:372:MET:HA	6:UD:373:PRO:HD3	1.87	0.42
6:UD:654:ILE:O	6:UD:734:PHE:HA	2.19	0.42
7:UE:11:ASP:HB3	7:UE:65:TRP:CE2	2.55	0.42
9:UG:529:ARG:O	9:UG:533:ILE:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:UH:231:PHE:HA	10:UH:238:ASP:HA	2.01	0.42
12:UJ:1598:LEU:HD11	12:UJ:1643:ARG:HB2	2.02	0.42
12:UJ:1724:VAL:HG13	12:UJ:1725:LEU:HG	2.02	0.42
14:UL:105:VAL:O	14:UL:113:VAL:HG23	2.19	0.42
14:UL:615:GLN:N	14:UL:636:ASP:OD1	2.53	0.42
15:UM:279:LYS:HD3	15:UM:325:ASP:C	2.44	0.42
15:UM:313:LEU:O	15:UM:330:THR:OG1	2.25	0.42
17:UO:62:ARG:CZ	17:UO:64:GLN:HG2	2.49	0.42
17:UO:284:PHE:CE1	17:UO:292:VAL:HG22	2.55	0.42
19:UQ:43:ASN:HA	19:UQ:55:TYR:O	2.19	0.42
19:UQ:178:PHE:CG	19:UQ:179:ASP:N	2.87	0.42
19:UQ:340:ILE:HG13	19:UQ:359:GLN:HB3	2.02	0.42
20:UR:255:SER:O	20:UR:263:LEU:HD12	2.20	0.42
21:US:377:ALA:HA	21:US:380:ILE:HG22	2.00	0.42
22:UT:226:THR:O	22:UT:230:GLU:OE1	2.38	0.42
22:UT:505:PHE:HE2	22:UT:540:THR:HG22	1.85	0.42
22:UT:519:VAL:HG11	22:UT:548:TYR:CE1	2.55	0.42
22:UT:1168:VAL:O	22:UT:1171:VAL:HG22	2.19	0.42
22:UT:1244:LEU:HD23	22:UT:1244:LEU:HA	1.78	0.42
22:UT:1277:GLU:O	22:UT:1281:ARG:HG2	2.19	0.42
22:UT:1289:ILE:HG23	22:UT:1293:ARG:HH12	1.84	0.42
22:UT:1299:GLU:O	22:UT:1302:SER:OG	2.32	0.42
22:UT:1391:ILE:O	22:UT:1395:LYS:HG3	2.20	0.42
22:UT:1395:LYS:HA	22:UT:1399:LEU:HG	2.01	0.42
22:UT:2139:GLU:HA	22:UT:2142:GLU:CD	2.45	0.42
22:UT:2472:GLU:HA	22:UT:2475:LYS:HE2	2.02	0.42
23:UU:395:LYS:HD3	23:UU:395:LYS:HA	1.87	0.42
23:UU:606:ASP:N	23:UU:606:ASP:OD1	2.50	0.42
24:UV:1156:LYS:HG2	24:UV:1157:TYR:CD1	2.54	0.42
25:UX:130:CYS:HB3	25:UX:144:ARG:NH2	2.35	0.42
26:CD:244:ASP:OD1	26:CD:244:ASP:N	2.53	0.42
27:CE:215:ARG:HB3	27:CE:239:ALA:HB1	2.02	0.42
27:CE:427:TYR:CG	27:CE:428:ASN:N	2.88	0.42
30:CI:29:ASP:O	30:CI:32:VAL:HG22	2.19	0.42
33:CL:174:LEU:HD23	33:CL:174:LEU:HA	1.86	0.42
33:CL:719:ASN:O	33:CL:723:LYS:HG2	2.19	0.42
34:CM:7:LYS:HD2	34:CM:77:ARG:HH11	1.84	0.42
35:CN:85:GLU:HG3	35:CN:127:LYS:O	2.20	0.42
36:JD:588:PHE:HB2	36:JD:814:GLY:O	2.20	0.42
36:JD:894:MET:HE3	36:JD:894:MET:HA	2.01	0.42
36:JD:1077:ILE:O	36:JD:1081:LYS:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:JD:1083:MET:HE2	36:JD:1083:MET:HB3	1.65	0.42
42:JP:356:TYR:CD1	42:JP:363:ILE:HG12	2.54	0.42
44:JJ:164:LEU:HD22	44:JJ:232:HIS:CE1	2.54	0.42
58:DX:69:ARG:HH11	58:DX:90:ASP:HB3	1.85	0.42
61:D2:60:G:H2'	61:D2:61:U:C6	2.54	0.42
62:D3:129:U:C2	62:D3:182:A:C6	3.08	0.42
62:D3:424:C:O2'	62:D3:426:G:OP1	2.35	0.42
62:D3:843:U:H2'	62:D3:844:A:O4'	2.19	0.42
63:D4:107:C:H6	63:D4:108:A:C6	2.38	0.42
63:D4:202:G:C6	63:D4:203:U:C4	3.07	0.42
69:EF:65:LYS:O	69:EF:123:LYS:N	2.52	0.42
1:CA:127:GLU:HA	1:CA:127:GLU:OE2	2.20	0.42
1:CA:144:TRP:CE2	1:CA:183:HIS:HB3	2.55	0.42
1:CA:306:LEU:CD1	1:CA:310:GLU:HB2	2.50	0.42
3:UA:269:HIS:ND1	3:UA:272:THR:HG22	2.35	0.42
3:UA:559:ILE:HG23	3:UA:598:ASN:HD22	1.84	0.42
3:UA:773:ILE:HD12	3:UA:773:ILE:H	1.84	0.42
4:UB:92:GLU:O	4:UB:96:LYS:HG2	2.20	0.42
6:UD:79:TRP:CE2	6:UD:87:GLN:HB2	2.55	0.42
6:UD:399:VAL:HB	6:UD:420:LEU:HB2	2.02	0.42
6:UD:545:ARG:HB2	6:UD:549:VAL:CG2	2.50	0.42
7:UE:5:VAL:HG23	7:UE:306:LEU:HD11	2.02	0.42
7:UE:510:GLY:O	7:UE:514:VAL:HG23	2.20	0.42
7:UE:532:ARG:O	7:UE:536:LEU:HG	2.20	0.42
8:UF:50:ILE:HA	8:UF:50:ILE:HD13	1.78	0.42
8:UF:359:TYR:O	8:UF:362:THR:OG1	2.31	0.42
9:UG:124:HIS:CG	9:UG:163:GLU:HG2	2.55	0.42
9:UG:244:ASN:ND2	9:UG:244:ASN:C	2.78	0.42
12:UJ:365:ILE:O	12:UJ:369:LEU:HG	2.20	0.42
12:UJ:746:GLU:O	12:UJ:750:ASN:ND2	2.53	0.42
12:UJ:1459:ARG:O	12:UJ:1462:SER:OG	2.32	0.42
12:UJ:1471:THR:HG22	12:UJ:1516:PHE:CE1	2.55	0.42
12:UJ:1549:VAL:HG12	12:UJ:1553:ARG:NE	2.35	0.42
13:UK:230:LYS:HE2	13:UK:242:PHE:CE2	2.55	0.42
14:UL:114:LEU:HG	14:UL:115:LEU:HD22	2.01	0.42
14:UL:392:THR:OG1	14:UL:393:ASP:N	2.53	0.42
15:UM:518:TRP:HD1	15:UM:519:ASN:O	2.03	0.42
19:UQ:198:LEU:HD12	19:UQ:198:LEU:HA	1.85	0.42
19:UQ:215:VAL:HG11	19:UQ:224:SER:HB3	2.02	0.42
19:UQ:409:LYS:HE2	19:UQ:409:LYS:HB3	1.87	0.42
19:UQ:413:SER:N	19:UQ:416:SER:HB3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UR:137:ILE:N	20:UR:153:SER:O	2.51	0.42
20:UR:178:VAL:HG21	23:UU:220:ILE:HD11	2.02	0.42
20:UR:356:GLU:H	20:UR:356:GLU:HG3	1.71	0.42
20:UR:408:CYS:O	20:UR:423:LEU:HD12	2.20	0.42
22:UT:162:LEU:HB3	22:UT:166:LEU:HD23	2.02	0.42
22:UT:355:GLN:O	22:UT:358:VAL:HB	2.20	0.42
22:UT:974:TYR:OH	22:UT:1020:ASN:O	2.31	0.42
22:UT:1359:GLU:HG3	22:UT:1360:GLU:CD	2.44	0.42
22:UT:1381:LYS:HA	22:UT:1382:PRO:HD3	1.95	0.42
22:UT:2130:LEU:HG	22:UT:2131:PRO:HD3	2.02	0.42
22:UT:2130:LEU:O	22:UT:2134:GLU:HG2	2.20	0.42
22:UT:2236:ILE:HG23	22:UT:2280:ILE:HD12	2.02	0.42
23:UU:132:THR:OG1	23:UU:136:SER:HB2	2.20	0.42
24:UV:183:ILE:HD11	24:UV:205:THR:OG1	2.20	0.42
24:UV:190:ALA:O	24:UV:192:LYS:HE2	2.20	0.42
24:UV:209:MET:HG3	24:UV:231:TYR:CE1	2.54	0.42
24:UV:932:GLU:O	24:UV:936:LEU:HD23	2.20	0.42
24:UV:1083:GLN:O	24:UV:1087:LEU:HG	2.20	0.42
25:UX:86:MET:HG2	25:UX:173:MET:HE1	2.02	0.42
26:CD:184:LEU:CD2	26:CD:285:ARG:HB2	2.49	0.42
27:CE:43:LYS:HZ2	27:CE:130:GLY:HA3	1.85	0.42
27:CE:222:ASP:C	27:CE:223:LEU:HD12	2.45	0.42
28:CF:51:PHE:HE1	28:CF:114:ILE:HG22	1.83	0.42
28:CF:61:ILE:O	28:CF:65:LEU:HB2	2.19	0.42
29:CH:190:VAL:HG11	29:CH:242:VAL:HB	2.02	0.42
30:CI:46:LYS:O	30:CI:50:ILE:HG13	2.20	0.42
32:CK:478:ASP:OD1	32:CK:478:ASP:N	2.53	0.42
34:CM:241:TRP:CE2	34:CM:262:GLY:HA3	2.55	0.42
34:CM:311:LEU:HD22	34:CM:313:ILE:HG22	2.01	0.42
35:CN:144:TYR:O	35:CN:147:LEU:HB2	2.20	0.42
36:JD:109:GLU:O	36:JD:113:ILE:HG12	2.20	0.42
36:JD:114:ILE:HG22	36:JD:118:GLN:OE1	2.19	0.42
36:JD:624:VAL:HG23	36:JD:759:VAL:HA	2.01	0.42
37:JG:64:LYS:HG3	37:JG:65:TYR:N	2.35	0.42
41:JM:137:LYS:HE2	62:D3:500:C:OP2	2.20	0.42
44:JJ:222:THR:HB	44:JJ:234:LEU:O	2.20	0.42
56:DT:45:MET:HG2	56:DT:46:PRO:HD2	2.00	0.42
62:D3:23:G:N1	62:D3:602:U:C2	2.88	0.42
62:D3:320:U:O2'	62:D3:321:C:H6	2.03	0.42
62:D3:494:U:H2'	62:D3:495:C:C6	2.55	0.42
62:D3:1176:G:C2	62:D3:1177:C:C2	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:D4:202:G:H2'	63:D4:203:U:H6	1.82	0.42
63:D4:315:A:H2'	63:D4:316:A:H8	1.85	0.42
65:EB:164:LYS:N	65:EB:185:VAL:O	2.35	0.42
74:EK:368:LYS:O	74:EK:372:LEU:CB	2.67	0.42
3:UA:71:ILE:HG21	3:UA:102:VAL:HG11	2.01	0.41
3:UA:129:LYS:HE3	3:UA:129:LYS:HB2	1.87	0.41
3:UA:349:ASN:OD1	3:UA:349:ASN:C	2.63	0.41
3:UA:848:PHE:CE2	14:UL:904:GLY:HA2	2.55	0.41
1:CB:107:VAL:HG23	1:CB:142:ARG:C	2.45	0.41
1:CB:155:ILE:HD13	1:CB:155:ILE:HA	1.91	0.41
4:UB:52:ARG:CD	32:CK:370:ARG:NH1	2.83	0.41
4:UB:424:LYS:O	4:UB:428:VAL:HG23	2.19	0.41
4:UB:602:LEU:HD11	4:UB:674:LYS:HE3	2.02	0.41
6:UD:519:THR:N	6:UD:522:SER:OG	2.53	0.41
6:UD:612:THR:HB	6:UD:615:SER:OG	2.20	0.41
7:UE:77:ILE:C	7:UE:78:LEU:HD12	2.45	0.41
7:UE:245:ALA:HB1	7:UE:253:LEU:HD11	2.00	0.41
7:UE:295:PHE:O	7:UE:301:LEU:HD12	2.19	0.41
7:UE:369:PHE:HB3	7:UE:372:VAL:HG11	2.01	0.41
9:UG:309:LEU:HD23	9:UG:309:LEU:HA	1.75	0.41
9:UG:495:SER:OG	9:UG:496:GLY:N	2.54	0.41
10:UH:562:PRO:O	10:UH:566:LEU:HD13	2.20	0.41
12:UJ:68:ILE:O	12:UJ:72:THR:HG22	2.20	0.41
12:UJ:1477:PHE:O	12:UJ:1481:LEU:HD23	2.20	0.41
12:UJ:1546:PRO:O	12:UJ:1550:ILE:HG23	2.20	0.41
12:UJ:1625:SER:O	12:UJ:1628:SER:OG	2.30	0.41
14:UL:279:LYS:HA	14:UL:338:ILE:HG23	2.02	0.41
14:UL:357:THR:OG1	14:UL:361:THR:OG1	2.09	0.41
14:UL:619:MET:HE3	14:UL:661:TRP:CZ3	2.54	0.41
14:UL:843:LYS:O	14:UL:846:LEU:HB3	2.20	0.41
15:UM:78:TYR:CZ	15:UM:86:LYS:HB2	2.55	0.41
15:UM:343:MET:HB3	15:UM:353:LEU:HD11	2.01	0.41
16:UN:779:GLU:HG3	16:UN:821:ARG:NH1	2.35	0.41
16:UN:853:ASN:OD1	16:UN:854:ARG:N	2.53	0.41
16:UN:878:LEU:HD23	16:UN:878:LEU:HA	1.79	0.41
17:UO:75:LYS:HD3	17:UO:75:LYS:HA	1.95	0.41
17:UO:485:ILE:O	17:UO:489:THR:HG23	2.20	0.41
19:UQ:450:TYR:CG	19:UQ:500:PHE:HZ	2.37	0.41
19:UQ:511:GLU:OE1	19:UQ:530:LYS:HE2	2.19	0.41
20:UR:130:ASP:O	20:UR:133:ILE:HG22	2.21	0.41
20:UR:257:HIS:HB3	20:UR:260:LYS:O	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UR:490:PHE:CD2	28:CF:89:ARG:CD	3.03	0.41
22:UT:4:GLN:N	62:D3:76:A:H62	2.18	0.41
22:UT:225:GLN:OE1	22:UT:226:THR:N	2.52	0.41
22:UT:558:TRP:CZ3	22:UT:603:LEU:HD21	2.55	0.41
22:UT:1710:LEU:HD12	22:UT:1760:ASN:HB3	2.01	0.41
22:UT:2138:LEU:HA	22:UT:2141:VAL:HG22	2.01	0.41
22:UT:2471:ARG:NH1	62:D3:846:G:OP2	2.39	0.41
23:UU:452:ARG:H	23:UU:452:ARG:HG2	1.76	0.41
23:UU:764:GLY:CA	23:UU:769:ASP:HB3	2.50	0.41
24:UV:106:GLN:O	24:UV:110:LEU:HD23	2.19	0.41
24:UV:514:ASN:HB3	24:UV:517:ARG:HH22	1.85	0.41
24:UV:587:GLY:HA3	24:UV:610:PHE:HA	2.02	0.41
24:UV:712:ASN:HD22	24:UV:712:ASN:C	2.28	0.41
24:UV:831:ILE:HD11	24:UV:885:PHE:N	2.35	0.41
25:UX:7:THR:HG22	31:CJ:14:TYR:CG	2.55	0.41
27:CE:162:MET:HE1	27:CE:279:ARG:NH2	2.35	0.41
29:CH:481:ILE:HB	29:CH:484:SER:OG	2.20	0.41
33:CL:968:THR:HG23	33:CL:970:SER:H	1.85	0.41
33:CL:968:THR:HG23	33:CL:970:SER:N	2.35	0.41
34:CM:311:LEU:HD23	34:CM:312:ARG:N	2.35	0.41
36:JD:424:VAL:HB	36:JD:425:PRO:HD3	2.01	0.41
36:JD:629:GLN:HB2	36:JD:735:TYR:CE2	2.55	0.41
42:JP:267:ILE:HD13	42:JP:267:ILE:HG21	1.84	0.41
43:Db:59:CYS:SG	43:Db:61:THR:OG1	2.78	0.41
44:JJ:164:LEU:HD23	44:JJ:164:LEU:HA	1.78	0.41
46:DF:54:LYS:HE3	46:DF:131:GLN:HE21	1.85	0.41
58:DX:132:LEU:HD23	58:DX:132:LEU:HA	1.90	0.41
62:D3:55:A:C2	62:D3:426:G:C5	3.08	0.41
62:D3:91:G:H2'	62:D3:92:A:O4'	2.20	0.41
62:D3:1053:G:H2'	62:D3:1054:U:C6	2.55	0.41
62:D3:1692:G:H2'	62:D3:1693:A:O4'	2.20	0.41
63:D4:41:C:H2'	63:D4:42:U:C6	2.55	0.41
2:DA:189:ILE:HD13	2:DA:189:ILE:HA	1.87	0.41
3:UA:411:VAL:HG23	3:UA:433:PHE:CD2	2.55	0.41
3:UA:613:LYS:HE3	3:UA:613:LYS:HB2	1.82	0.41
1:CB:144:TRP:NE1	1:CB:183:HIS:HB3	2.34	0.41
1:CB:236:MET:HE1	27:CE:118:ARG:O	2.20	0.41
1:CB:236:MET:HE3	27:CE:121:LYS:HB3	2.02	0.41
6:UD:125:GLU:OE2	6:UD:134:LEU:HD23	2.20	0.41
6:UD:394:TRP:HB2	6:UD:428:ILE:HD11	2.02	0.41
6:UD:535:GLU:O	6:UD:542:VAL:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:561:LYS:HD2	6:UD:561:LYS:HA	1.88	0.41
7:UE:238:SER:OG	7:UE:239:GLY:N	2.53	0.41
8:UF:172:LEU:HD13	8:UF:182:TRP:CZ3	2.55	0.41
9:UG:196:LEU:HA	9:UG:206:VAL:O	2.19	0.41
9:UG:321:ASN:HB2	9:UG:333:SER:OG	2.20	0.41
12:UJ:19:ALA:HB1	12:UJ:25:ARG:HG3	2.01	0.41
12:UJ:1503:LEU:O	12:UJ:1506:SER:OG	2.32	0.41
13:UK:192:LYS:C	13:UK:196:LYS:HZ3	2.28	0.41
14:UL:49:VAL:CG2	14:UL:63:LEU:HB2	2.49	0.41
14:UL:171:CYS:SG	14:UL:172:GLN:N	2.93	0.41
14:UL:285:ARG:O	14:UL:327:HIS:N	2.53	0.41
15:UM:151:LYS:HG2	15:UM:197:ASP:HA	2.03	0.41
16:UN:330:THR:OG1	16:UN:331:GLN:N	2.53	0.41
17:UO:177:ILE:HD11	17:UO:223:PRO:HA	2.02	0.41
17:UO:221:VAL:HG23	17:UO:260:TYR:CG	2.54	0.41
17:UO:315:ASN:N	17:UO:315:ASN:OD1	2.53	0.41
18:UP:189:THR:C	18:UP:190:LEU:HD22	2.45	0.41
18:UP:208:ARG:HD2	18:UP:210:ALA:HB3	2.02	0.41
19:UQ:198:LEU:H	19:UQ:211:MET:HG2	1.84	0.41
19:UQ:359:GLN:HE22	19:UQ:367:SER:CB	2.33	0.41
22:UT:19:PHE:CZ	22:UT:23:ILE:HD11	2.55	0.41
22:UT:1011:LEU:HB3	22:UT:1015:PHE:HB3	2.02	0.41
22:UT:1313:SER:HA	22:UT:1316:MET:HG2	2.01	0.41
22:UT:1498:GLU:HG3	22:UT:1508:GLN:HE21	1.84	0.41
22:UT:1503:ILE:HG13	22:UT:1504:GLY:N	2.34	0.41
22:UT:1868:LEU:HD23	22:UT:1868:LEU:HA	1.79	0.41
24:UV:119:LYS:HB2	24:UV:119:LYS:HE3	1.89	0.41
24:UV:238:HIS:HA	24:UV:241:ILE:HG12	2.02	0.41
24:UV:245:LYS:HE3	24:UV:245:LYS:HB3	1.76	0.41
24:UV:284:ASN:OD1	24:UV:287:LYS:NZ	2.36	0.41
24:UV:1013:THR:HG22	24:UV:1016:GLN:OE1	2.20	0.41
25:UX:52:PHE:O	25:UX:53:PHE:C	2.62	0.41
26:CD:102:ASP:HB3	26:CD:105:LEU:HB2	2.02	0.41
26:CD:257:ILE:O	26:CD:257:ILE:HG22	2.20	0.41
28:CF:54:MET:HE3	28:CF:78:TYR:HB2	2.01	0.41
29:CH:166:VAL:H	29:CH:175:SER:HB3	1.85	0.41
30:CI:70:PHE:CE2	32:CK:437:ILE:HD11	2.55	0.41
32:CK:437:ILE:HG13	32:CK:438:SER:N	2.35	0.41
33:CL:1106:GLU:OE1	41:JM:119:ARG:NH1	2.53	0.41
34:CM:56:ILE:O	34:CM:60:THR:HG22	2.20	0.41
35:CN:173:LYS:HD2	35:CN:173:LYS:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:JD:827:SER:O	36:JD:831:GLU:HG2	2.19	0.41
42:JP:250:ARG:HB2	42:JP:250:ARG:NH2	2.35	0.41
46:DF:31:GLU:OE2	46:DF:31:GLU:HA	2.19	0.41
46:DF:157:ARG:CB	46:DF:224:ASN:HD21	2.33	0.41
47:DG:52:ILE:HD13	47:DG:111:LEU:CD2	2.50	0.41
47:DG:68:LEU:C	47:DG:69:LEU:HD12	2.45	0.41
53:DO:58:TYR:CZ	53:DO:62:LEU:HD11	2.54	0.41
57:DW:25:VAL:HG22	57:DW:63:VAL:HB	2.01	0.41
59:DY:44:LEU:HD23	59:DY:44:LEU:HA	1.89	0.41
62:D3:686:C:H2'	62:D3:687:G:C8	2.55	0.41
62:D3:1621:U:H2'	62:D3:1622:G:O4'	2.20	0.41
63:D4:144:G:C2	63:D4:146:C:N3	2.88	0.41
70:EG:70:GLN:O	70:EG:145:LYS:N	2.41	0.41
1:CA:226:HIS:O	1:CA:229:LYS:N	2.50	0.41
4:UB:435:PHE:O	4:UB:439:GLN:HG2	2.19	0.41
6:UD:34:HIS:CD2	6:UD:747:ILE:HD12	2.56	0.41
6:UD:737:LYS:HB2	6:UD:738:TYR:CE2	2.55	0.41
7:UE:177:GLU:O	7:UE:179:LYS:NZ	2.39	0.41
7:UE:495:GLN:HE22	7:UE:533:ARG:CZ	2.33	0.41
8:UF:137:LEU:HD22	8:UF:147:TRP:CE2	2.55	0.41
8:UF:285:TYR:O	8:UF:288:LYS:HG3	2.20	0.41
9:UG:240:GLN:HG3	9:UG:240:GLN:O	2.19	0.41
12:UJ:544:LEU:HD11	12:UJ:581:GLY:HA3	2.02	0.41
12:UJ:558:VAL:O	12:UJ:592:ARG:NH2	2.54	0.41
12:UJ:667:LYS:HA	12:UJ:670:LEU:HG	2.02	0.41
12:UJ:1749:ARG:NH2	22:UT:34:LEU:HA	2.36	0.41
13:UK:12:GLN:HG3	13:UK:13:HIS:N	2.35	0.41
13:UK:110:LEU:HA	13:UK:113:ILE:HD12	2.02	0.41
14:UL:148:TRP:HD1	14:UL:155:GLY:HA2	1.86	0.41
14:UL:406:LEU:HD13	14:UL:406:LEU:HA	1.94	0.41
14:UL:533:ASP:OD1	14:UL:534:ILE:N	2.53	0.41
14:UL:614:HIS:HB3	14:UL:634:SER:CB	2.50	0.41
15:UM:80:SER:OG	15:UM:81:GLN:N	2.53	0.41
15:UM:619:ARG:O	15:UM:636:ASP:HB2	2.19	0.41
16:UN:810:LYS:HB2	16:UN:810:LYS:HE3	1.78	0.41
21:US:190:ASP:OD1	21:US:190:ASP:N	2.51	0.41
21:US:296:MET:SD	21:US:326:LEU:HD21	2.60	0.41
21:US:417:HIS:CE1	37:JG:23:LEU:HD12	2.55	0.41
22:UT:246:THR:HG23	22:UT:290:SER:CB	2.51	0.41
22:UT:445:LEU:C	22:UT:449:ARG:HE	2.28	0.41
22:UT:721:GLU:HB2	22:UT:752:THR:HG23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1243:ILE:HA	22:UT:1246:ILE:HD12	2.02	0.41
22:UT:1281:ARG:HD2	22:UT:1281:ARG:HA	1.75	0.41
22:UT:1334:ASP:HB3	22:UT:1336:TYR:CE2	2.55	0.41
22:UT:1651:ARG:NH1	22:UT:1744:GLU:OE1	2.54	0.41
22:UT:1743:LYS:O	22:UT:1747:SER:HB2	2.19	0.41
22:UT:2334:ASP:OD1	22:UT:2335:TYR:N	2.52	0.41
22:UT:2358:LYS:HG2	22:UT:2362:GLN:OE1	2.20	0.41
23:UU:304:LEU:HD23	23:UU:304:LEU:HA	1.82	0.41
23:UU:584:HIS:NE2	23:UU:602:SER:OG	2.37	0.41
23:UU:644:THR:HG22	23:UU:651:ILE:HG23	2.02	0.41
24:UV:285:PHE:O	24:UV:288:THR:OG1	2.32	0.41
24:UV:337:LEU:CD2	24:UV:474:VAL:HG22	2.50	0.41
24:UV:373:ARG:O	24:UV:522:LYS:NZ	2.53	0.41
24:UV:476:ILE:HD12	24:UV:476:ILE:H	1.85	0.41
24:UV:529:VAL:HB	24:UV:613:VAL:CG2	2.50	0.41
24:UV:918:ARG:O	24:UV:922:THR:HG23	2.20	0.41
27:CE:8:THR:OG1	27:CE:11:GLY:O	2.27	0.41
27:CE:252:LEU:HA	27:CE:255:ILE:HG22	2.03	0.41
33:CL:617:THR:HB	33:CL:619:GLU:OE1	2.21	0.41
33:CL:828:ARG:NH2	33:CL:918:ILE:HD11	2.35	0.41
36:JD:116:LYS:HG3	36:JD:117:LEU:N	2.34	0.41
36:JD:855:LYS:HD3	36:JD:855:LYS:HA	1.88	0.41
36:JD:1037:GLU:O	36:JD:1041:LEU:HD23	2.20	0.41
40:JL:248:MET:HE3	40:JL:248:MET:HB2	1.98	0.41
45:DE:143:ASP:N	45:DE:143:ASP:OD1	2.50	0.41
47:DG:143:LYS:HB3	47:DG:143:LYS:HE3	1.78	0.41
51:DL:49:ILE:HG22	51:DL:50:GLU:HG3	2.03	0.41
57:DW:69:LEU:HA	57:DW:69:LEU:HD12	1.63	0.41
58:DX:107:PHE:CD1	58:DX:109:ARG:HB2	2.55	0.41
60:Dc:22:ARG:HG3	60:Dc:22:ARG:NH1	2.32	0.41
62:D3:19:A:C6	62:D3:20:G:C5	3.09	0.41
62:D3:495:C:H5"	62:D3:496:G:OP2	2.21	0.41
62:D3:780:A:H4'	62:D3:781:U:H3'	2.03	0.41
62:D3:993:A:H2'	62:D3:994:G:O4'	2.20	0.41
63:D4:47:G:H2'	63:D4:48:A:H8	1.77	0.41
63:D4:83:A:C8	63:D4:328:A:C6	3.08	0.41
63:D4:159:C:N3	63:D4:160:G:C6	2.88	0.41
1:CA:315:ILE:HD13	1:CA:315:ILE:HG21	1.81	0.41
3:UA:610:VAL:HG22	3:UA:611:LEU:H	1.84	0.41
1:CB:231:ARG:HH21	27:CE:91:GLU:CD	2.28	0.41
4:UB:590:ASN:HB3	21:US:347:PRO:HG2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UB:661:ILE:HG23	4:UB:665:GLN:HG3	2.02	0.41
4:UB:688:VAL:O	4:UB:692:THR:HG23	2.21	0.41
6:UD:208:GLY:HA3	6:UD:233:LYS:HZ2	1.85	0.41
7:UE:12:PRO:HG2	7:UE:67:ASN:OD1	2.20	0.41
7:UE:339:LYS:HE2	7:UE:339:LYS:HB2	1.81	0.41
8:UF:85:ASP:OD1	8:UF:85:ASP:N	2.53	0.41
9:UG:126:LEU:HD23	9:UG:126:LEU:C	2.45	0.41
12:UJ:130:LYS:HA	12:UJ:130:LYS:HD2	1.76	0.41
12:UJ:159:PRO:O	27:CE:412:VAL:HG23	2.20	0.41
12:UJ:489:GLU:HA	12:UJ:492:LYS:HD2	2.01	0.41
12:UJ:564:VAL:O	12:UJ:567:LEU:HG	2.21	0.41
13:UK:98:LEU:HA	33:CL:1099:ALA:HB3	2.02	0.41
14:UL:65:ASP:OD1	14:UL:66:GLY:N	2.52	0.41
15:UM:24:THR:HG21	15:UM:69:LEU:H	1.85	0.41
15:UM:355:LEU:HD21	15:UM:641:PHE:HZ	1.85	0.41
15:UM:618:ASN:ND2	15:UM:637:ALA:HB3	2.35	0.41
15:UM:802:GLN:O	15:UM:805:ILE:HB	2.21	0.41
19:UQ:339:GLY:HA3	19:UQ:358:LEU:HD21	2.02	0.41
19:UQ:868:ASN:OD1	19:UQ:871:SER:HB3	2.20	0.41
20:UR:445:ARG:HH11	20:UR:447:TRP:CD1	2.37	0.41
21:US:195:PHE:CD2	21:US:199:PHE:HE2	2.38	0.41
22:UT:323:PHE:O	22:UT:324:SER:C	2.63	0.41
22:UT:364:LEU:HD23	22:UT:364:LEU:HA	1.87	0.41
22:UT:1005:ASN:OD1	22:UT:1061:CYS:HB2	2.20	0.41
22:UT:1273:LYS:HE3	22:UT:1401:ASN:HD21	1.84	0.41
22:UT:1357:ASN:OD1	22:UT:1358:LYS:N	2.54	0.41
22:UT:1609:ARG:HG3	22:UT:1609:ARG:HH11	1.85	0.41
22:UT:1616:LEU:HB3	22:UT:1635:ILE:HD13	2.02	0.41
24:UV:272:CYS:SG	24:UV:273:SER:N	2.94	0.41
24:UV:1192:GLY:O	24:UV:1213:ILE:HG13	2.20	0.41
26:CD:263:ILE:HD12	26:CD:267:ASP:HB3	2.01	0.41
27:CE:116:ILE:HD12	27:CE:116:ILE:H	1.85	0.41
28:CG:113:GLN:O	28:CG:114:ILE:C	2.62	0.41
29:CH:157:LEU:HD23	29:CH:191:SER:HB3	2.01	0.41
29:CH:228:TYR:N	29:CH:228:TYR:CD2	2.88	0.41
30:CI:107:CYS:O	30:CI:110:ARG:HB2	2.19	0.41
31:CJ:162:THR:HG23	31:CJ:264:GLY:O	2.20	0.41
32:CK:401:SER:O	32:CK:401:SER:OG	2.38	0.41
32:CK:413:TYR:CD2	44:JJ:177:LEU:HD11	2.55	0.41
33:CL:20:LYS:O	33:CL:23:THR:HG22	2.20	0.41
33:CL:92:ARG:HH21	33:CL:221:LEU:HD13	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:JD:497:LEU:O	36:JD:500:GLU:HG3	2.20	0.41
36:JD:902:MET:HE1	36:JD:913:LYS:CA	2.51	0.41
37:JF:94:GLN:CD	37:JF:95:CYS:N	2.78	0.41
41:JM:69:PHE:O	41:JM:72:LEU:HB3	2.21	0.41
41:JM:158:GLU:O	41:JM:158:GLU:HG2	2.20	0.41
42:JP:284:HIS:HE1	42:JP:306:SER:HA	1.83	0.41
42:JP:397:ASP:O	42:JP:401:LYS:HG2	2.20	0.41
43:Db:72:LYS:HA	43:Db:72:LYS:HD2	1.75	0.41
45:DE:67:GLN:OE1	45:DE:69:HIS:NE2	2.50	0.41
45:DE:77:ARG:HA	45:DE:77:ARG:HD3	1.91	0.41
58:DX:19:ARG:HH11	62:D3:611:U:P	2.38	0.41
62:D3:202:A:H2'	62:D3:203:U:O4'	2.20	0.41
62:D3:592:A:O2'	62:D3:596:C:OP1	2.30	0.41
62:D3:616:G:H1'	62:D3:621:A:C5	2.55	0.41
62:D3:679:U:C4	62:D3:680:U:C4	3.08	0.41
62:D3:1001:A:H2'	62:D3:1002:G:C5	2.55	0.41
75:EN:329:TYR:N	75:EN:555:VAL:O	2.51	0.41
3:UA:69:LEU:HA	3:UA:69:LEU:HD23	1.68	0.41
3:UA:166:LYS:C	3:UA:168:LEU:H	2.28	0.41
3:UA:175:VAL:HG23	3:UA:176:ASP:OD1	2.21	0.41
1:CB:310:GLU:HG2	1:CB:313:HIS:ND1	2.35	0.41
4:UB:58:PHE:CE2	31:CJ:176:ILE:CD1	3.02	0.41
6:UD:548:GLY:HA3	6:UD:566:LEU:O	2.21	0.41
7:UE:25:ASP:OD2	20:UR:590:LYS:HD2	2.21	0.41
7:UE:176:GLU:HG2	7:UE:177:GLU:N	2.35	0.41
7:UE:209:ASP:O	7:UE:231:ASP:HA	2.20	0.41
7:UE:251:GLY:C	7:UE:288:LYS:HZ1	2.25	0.41
7:UE:338:ASN:ND2	20:UR:337:ALA:HB3	2.36	0.41
8:UF:114:LEU:HD12	41:JM:69:PHE:HE2	1.85	0.41
8:UF:137:LEU:HA	8:UF:137:LEU:HD23	1.79	0.41
9:UG:268:VAL:HG22	9:UG:269:LYS:N	2.36	0.41
9:UG:356:GLY:O	9:UG:364:ARG:NH2	2.43	0.41
12:UJ:275:ILE:CD1	12:UJ:302:LEU:HB3	2.46	0.41
12:UJ:1499:ILE:HA	12:UJ:1502:LYS:HD2	2.01	0.41
14:UL:7:ARG:HA	14:UL:651:GLN:NE2	2.32	0.41
14:UL:109:MET:HE2	14:UL:109:MET:N	2.35	0.41
14:UL:209:GLY:O	14:UL:219:THR:HA	2.21	0.41
14:UL:262:ILE:HD12	14:UL:343:TRP:CG	2.56	0.41
14:UL:406:LEU:CD1	14:UL:416:ILE:HG13	2.51	0.41
14:UL:837:ASP:O	14:UL:841:GLN:HG2	2.20	0.41
15:UM:97:ARG:NE	15:UM:134:GLY:H	2.16	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UM:148:SER:N	15:UM:166:GLY:O	2.39	0.41
15:UM:799:LEU:HD23	15:UM:799:LEU:HA	1.73	0.41
17:UO:361:MET:HG2	17:UO:361:MET:O	2.21	0.41
18:UP:169:ASP:CB	18:UP:180:LEU:HD23	2.50	0.41
19:UQ:11:LYS:O	19:UQ:786:VAL:HA	2.20	0.41
19:UQ:407:ASN:HA	19:UQ:412:ASN:HA	2.01	0.41
20:UR:16:ASP:O	20:UR:20:GLN:HG3	2.20	0.41
22:UT:232:LEU:HD13	22:UT:232:LEU:HA	1.91	0.41
22:UT:248:HIS:O	22:UT:251:ALA:HB3	2.21	0.41
22:UT:489:SER:C	22:UT:490:LYS:HG3	2.45	0.41
22:UT:1205:ILE:HG22	22:UT:1211:ILE:CD1	2.47	0.41
22:UT:1278:ARG:HH22	22:UT:1316:MET:CA	2.32	0.41
22:UT:1899:LEU:HD23	22:UT:1899:LEU:HA	1.64	0.41
22:UT:2066:ASP:HA	22:UT:2069:GLN:OE1	2.20	0.41
22:UT:2214:SER:HB3	22:UT:2253:LEU:HD13	2.02	0.41
23:UU:707:PHE:O	23:UU:709:THR:HG23	2.21	0.41
24:UV:203:ILE:HD11	24:UV:290:PHE:HE2	1.86	0.41
24:UV:587:GLY:C	24:UV:610:PHE:HA	2.46	0.41
26:CD:171:ASP:C	26:CD:171:ASP:OD1	2.63	0.41
27:CE:70:SER:C	27:CE:74:LYS:HZ2	2.28	0.41
27:CE:329:ALA:HA	27:CE:332:THR:HG22	2.03	0.41
30:CI:125:GLN:H	30:CI:125:GLN:CD	2.28	0.41
31:CJ:8:GLU:O	31:CJ:11:GLU:HG3	2.20	0.41
32:CK:507:ILE:O	32:CK:515:MET:HB2	2.20	0.41
33:CL:89:LEU:HA	33:CL:89:LEU:HD12	1.80	0.41
33:CL:1140:LYS:HE3	33:CL:1140:LYS:HB3	1.92	0.41
36:JD:524:ASN:OD1	36:JD:525:THR:N	2.53	0.41
36:JD:1154:TYR:HB2	36:JD:1167:MET:HB3	2.02	0.41
37:JF:107:ALA:HB1	37:JF:109:LYS:HE2	2.03	0.41
37:JG:41:MET:O	37:JG:110:LEU:HA	2.20	0.41
39:JI:1628:GLU:HA	39:JI:1632:GLY:HA3	2.02	0.41
40:JL:236:ARG:NE	62:D3:982:U:OP2	2.53	0.41
45:DE:35:PRO:HB2	45:DE:36:HIS:CD2	2.55	0.41
45:DE:133:LYS:HE2	62:D3:252:U:OP1	2.20	0.41
53:DO:83:ILE:HG22	53:DO:116:GLU:O	2.20	0.41
54:DQ:13:LYS:O	54:DQ:14:LYS:C	2.64	0.41
58:DX:26:GLU:OE1	58:DX:28:ASN:N	2.53	0.41
62:D3:58:U:OP1	62:D3:456:A:O2'	2.32	0.41
62:D3:156:A:N6	62:D3:157:A:C2	2.88	0.41
63:D4:4:G:C6	63:D4:5:A:C5	3.09	0.41
63:D4:199:G:C5	63:D4:200:C:C4	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:185:SER:HB2	1:CA:217:ILE:HD11	2.01	0.41
1:CA:198:GLU:CD	1:CA:199:PHE:N	2.79	0.41
1:CA:320:TYR:OH	1:CA:322:ARG:HD3	2.21	0.41
2:DA:10:SER:O	2:DA:11:LYS:C	2.63	0.41
2:DA:110:LEU:HD23	2:DA:110:LEU:HA	1.75	0.41
3:UA:792:ILE:HG22	3:UA:796:LEU:HD12	2.02	0.41
1:CB:85:LYS:HD2	1:CB:85:LYS:HA	1.86	0.41
1:CB:264:GLN:CA	1:CB:320:TYR:O	2.68	0.41
4:UB:101:ALA:HB1	4:UB:105:MET:HE2	2.01	0.41
6:UD:389:ARG:HB3	6:UD:404:MET:HB3	2.03	0.41
7:UE:473:LYS:HE3	7:UE:473:LYS:HB3	1.72	0.41
9:UG:214:LEU:HD21	9:UG:216:TYR:CE2	2.56	0.41
12:UJ:132:THR:HB	12:UJ:155:ILE:HD11	2.02	0.41
12:UJ:248:SER:OG	12:UJ:249:LYS:N	2.51	0.41
12:UJ:416:LEU:C	12:UJ:420:LYS:HZ2	2.27	0.41
12:UJ:1536:VAL:HA	12:UJ:1539:MET:HE3	2.01	0.41
12:UJ:1599:GLU:N	12:UJ:1600:PRO:HD2	2.36	0.41
14:UL:18:ALA:H	14:UL:360:ASN:CG	2.29	0.41
14:UL:344:THR:N	14:UL:352:GLU:O	2.47	0.41
15:UM:176:ASP:OD2	15:UM:179:LYS:HB2	2.20	0.41
15:UM:197:ASP:OD1	15:UM:198:ILE:N	2.54	0.41
15:UM:616:HIS:HE1	15:UM:640:VAL:O	2.04	0.41
16:UN:865:ILE:HD11	42:JP:403:ARG:CZ	2.51	0.41
19:UQ:213:LYS:NZ	19:UQ:222:HIS:HB2	2.36	0.41
19:UQ:359:GLN:HG3	19:UQ:361:THR:HB	2.02	0.41
19:UQ:435:ASP:HB2	19:UQ:437:THR:HG23	2.01	0.41
20:UR:374:ILE:HD12	20:UR:376:LEU:HD21	2.03	0.41
22:UT:412:ASN:O	22:UT:416:PHE:HD2	2.04	0.41
22:UT:472:ASP:HB3	22:UT:475:ASP:CG	2.45	0.41
22:UT:982:HIS:HE1	22:UT:1081:ASP:OD1	2.03	0.41
22:UT:1321:PHE:HA	22:UT:1324:ILE:HG22	2.03	0.41
23:UU:361:SER:HA	23:UU:636:PRO:HG2	2.01	0.41
23:UU:392:ARG:O	23:UU:449:ARG:NH2	2.54	0.41
24:UV:161:PRO:HA	24:UV:597:ARG:HA	2.03	0.41
24:UV:924:LEU:HD21	24:UV:1181:VAL:HG13	2.01	0.41
24:UV:926:LEU:HA	24:UV:926:LEU:HD23	1.77	0.41
24:UV:971:LYS:HZ1	24:UV:1033:ASN:HA	1.82	0.41
26:CD:178:ILE:HA	26:CD:178:ILE:HD13	1.78	0.41
33:CL:195:TRP:NE1	33:CL:202:ALA:O	2.54	0.41
34:CM:66:GLU:HA	34:CM:66:GLU:OE2	2.20	0.41
36:JD:897:GLU:HA	36:JD:900:LYS:NZ	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:JF:75:GLY:HA2	37:JF:78:LYS:HE2	2.02	0.41
42:JP:283:ASP:N	42:JP:283:ASP:OD1	2.53	0.41
44:JJ:98:LYS:HG2	44:JJ:138:GLU:HG2	2.01	0.41
45:DE:8:HIS:C	45:DE:30:ARG:HD2	2.46	0.41
46:DF:72:HIS:O	54:DQ:79:TYR:OH	2.39	0.41
46:DF:140:THR:O	46:DF:214:LYS:HD3	2.21	0.41
47:DG:115:LYS:HE3	47:DG:115:LYS:HB3	1.87	0.41
48:DH:161:GLN:HA	48:DH:164:TYR:CE2	2.55	0.41
49:DI:3:ILE:O	49:DI:30:GLY:N	2.51	0.41
50:DJ:7:THR:O	62:D3:771:A:H4'	2.19	0.41
50:DJ:132:ARG:HH11	50:DJ:132:ARG:HD2	1.72	0.41
57:DW:121:VAL:O	57:DW:122:SER:OG	2.31	0.41
61:D2:478:U:C2	61:D2:479:G:C8	3.09	0.41
62:D3:1141:G:N1	62:D3:1142:A:C5	2.88	0.41
62:D3:1528:U:C4	62:D3:1529:C:N4	2.88	0.41
62:D3:1673:G:N2	62:D3:1729:C:O2	2.53	0.41
62:D3:1700:C:H2'	62:D3:1701:A:O4'	2.20	0.41
4:UB:689:GLU:HG2	4:UB:693:LYS:HZ3	1.85	0.41
7:UE:149:ASN:N	7:UE:149:ASN:OD1	2.51	0.41
10:UH:665:GLN:C	11:UI:496:LEU:HD21	2.45	0.41
12:UJ:276:LEU:HD23	12:UJ:276:LEU:HA	1.86	0.41
12:UJ:551:ILE:O	12:UJ:554:ILE:HB	2.20	0.41
12:UJ:1482:GLU:HA	12:UJ:1485:VAL:HG22	2.02	0.41
14:UL:412:GLY:HA3	14:UL:430:CYS:H	1.85	0.41
14:UL:747:LYS:O	14:UL:750:GLU:HB3	2.21	0.41
14:UL:824:MET:HA	14:UL:825:PRO:HD3	1.80	0.41
17:UO:79:ARG:HD3	17:UO:114:ARG:NH2	2.36	0.41
17:UO:479:VAL:HA	17:UO:482:GLU:CD	2.46	0.41
19:UQ:46:ILE:HD12	19:UQ:48:PHE:CE1	2.55	0.41
19:UQ:97:THR:OG1	19:UQ:98:VAL:N	2.54	0.41
19:UQ:255:ASN:O	19:UQ:276:ALA:HB3	2.20	0.41
19:UQ:341:ILE:O	19:UQ:341:ILE:HG13	2.20	0.41
19:UQ:720:ILE:HD12	19:UQ:774:PHE:CG	2.55	0.41
20:UR:134:LYS:HE2	20:UR:134:LYS:HB2	1.85	0.41
20:UR:211:ILE:HA	20:UR:214:THR:HG22	2.01	0.41
20:UR:475:LYS:HD3	20:UR:475:LYS:HA	1.78	0.41
22:UT:392:CYS:O	22:UT:395:GLU:HB2	2.20	0.41
22:UT:431:LYS:NZ	22:UT:750:TYR:HB3	2.36	0.41
22:UT:470:ILE:CD1	22:UT:503:ARG:HB3	2.50	0.41
22:UT:620:SER:HA	22:UT:623:MET:HE3	2.02	0.41
22:UT:776:ASN:ND2	22:UT:827:ASP:OD1	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1019:THR:HA	22:UT:1023:LEU:HB3	2.01	0.41
22:UT:1101:GLN:HG3	22:UT:1102:PRO:CD	2.48	0.41
22:UT:1384:LEU:HA	22:UT:1430:TYR:OH	2.21	0.41
22:UT:2111:PHE:HE1	22:UT:2159:ASN:HB2	1.86	0.41
23:UU:594:SER:HA	23:UU:634:PHE:HD2	1.85	0.41
23:UU:819:LYS:O	23:UU:822:ARG:N	2.52	0.41
23:UU:828:LYS:HE2	23:UU:828:LYS:HB3	1.67	0.41
24:UV:153:PHE:HD1	24:UV:158:VAL:HG13	1.86	0.41
24:UV:254:LEU:HD12	24:UV:268:LEU:HD11	2.03	0.41
24:UV:1067:LEU:HA	24:UV:1070:VAL:HG12	2.02	0.41
24:UV:1137:ASN:HD22	35:CN:174:PRO:HD2	1.86	0.41
26:CD:163:VAL:O	26:CD:164:LYS:HB2	2.20	0.41
27:CE:152:LEU:HD23	27:CE:152:LEU:HA	1.92	0.41
28:CG:50:GLU:O	28:CG:51:PHE:HB3	2.21	0.41
32:CK:496:TYR:CE2	32:CK:498:VAL:HG12	2.55	0.41
33:CL:126:ASN:OD1	33:CL:126:ASN:N	2.53	0.41
33:CL:301:ILE:CD1	33:CL:791:ILE:HG22	2.50	0.41
33:CL:960:ARG:HH12	33:CL:961:PHE:HE1	1.67	0.41
34:CM:111:LYS:HB2	34:CM:111:LYS:HE3	1.85	0.41
35:CN:35:HIS:CD2	35:CN:59:PRO:HG3	2.56	0.41
35:CN:210:ASP:N	35:CN:210:ASP:OD1	2.42	0.41
36:JD:541:LYS:HD3	36:JD:549:GLU:CB	2.50	0.41
36:JD:889:LEU:HD23	36:JD:893:GLU:O	2.21	0.41
40:JL:191:VAL:HB	40:JL:204:SER:OG	2.20	0.41
40:JL:273:MET:O	40:JL:276:VAL:HG12	2.21	0.41
42:JP:394:LEU:HA	42:JP:394:LEU:HD23	1.82	0.41
43:Db:31:TYR:CD2	43:Db:81:ARG:HD2	2.56	0.41
45:DE:101:LEU:HD23	45:DE:101:LEU:HA	1.81	0.41
45:DE:127:LYS:HE2	45:DE:142:HIS:HA	2.02	0.41
49:DI:25:ARG:HA	62:D3:400:A:H5"	2.03	0.41
60:Dc:32:PHE:CE2	60:Dc:38:ARG:NH2	2.77	0.41
62:D3:997:G:HO2'	62:D3:998:A:P	2.44	0.41
62:D3:1163:A:N6	62:D3:1164:G:C6	2.89	0.41
62:D3:1611:A:C6	62:D3:1612:U:C4	3.09	0.41
63:D4:315:A:H2'	63:D4:316:A:C8	2.55	0.41
1:CA:144:TRP:NE1	1:CA:183:HIS:ND1	2.67	0.41
1:CA:144:TRP:CZ2	1:CA:183:HIS:HB3	2.55	0.41
2:DA:11:LYS:HE3	15:UM:493:ASP:HB2	2.03	0.41
4:UB:429:LEU:HD23	4:UB:462:LEU:HD21	2.01	0.41
5:UC:596:THR:HG22	41:JM:137:LYS:CG	2.50	0.41
6:UD:49:LEU:HD21	6:UD:69:ILE:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:113:ARG:NE	6:UD:174:PRO:HA	2.36	0.41
6:UD:592:TYR:CE2	6:UD:619:THR:HG21	2.55	0.41
7:UE:544:ASP:CG	17:UO:495:ILE:HD11	2.45	0.41
12:UJ:87:THR:HG22	12:UJ:90:GLU:CD	2.45	0.41
12:UJ:760:PHE:CD2	12:UJ:795:LEU:HD11	2.56	0.41
14:UL:212:VAL:HG22	14:UL:217:LEU:CB	2.50	0.41
14:UL:386:GLU:O	14:UL:387:LEU:C	2.63	0.41
14:UL:533:ASP:HB3	14:UL:551:LEU:HB2	2.03	0.41
15:UM:584:ILE:HB	15:UM:589:GLN:O	2.21	0.41
15:UM:678:TRP:CD1	15:UM:678:TRP:H	2.38	0.41
17:UO:90:ARG:HD2	17:UO:95:LEU:HD13	2.02	0.41
19:UQ:433:ARG:HH11	19:UQ:703:LYS:HG3	1.85	0.41
20:UR:16:ASP:OD1	20:UR:17:GLU:N	2.50	0.41
20:UR:486:SER:HG	28:CF:89:ARG:NH2	1.99	0.41
22:UT:12:LYS:HE2	22:UT:12:LYS:HB3	1.86	0.41
22:UT:571:LEU:O	22:UT:575:MET:HG2	2.20	0.41
22:UT:899:ASP:OD1	49:DI:41:LYS:NZ	2.38	0.41
22:UT:1017:LEU:HD22	22:UT:1073:PHE:CZ	2.56	0.41
22:UT:1668:GLU:HG2	22:UT:1669:TYR:N	2.36	0.41
23:UU:86:HIS:HB2	23:UU:123:ILE:CD1	2.49	0.41
23:UU:763:SER:O	23:UU:767:VAL:HG22	2.21	0.41
23:UU:854:SER:HB2	23:UU:895:VAL:HG21	2.02	0.41
24:UV:635:SER:OG	24:UV:636:GLU:N	2.54	0.41
24:UV:857:GLU:H	24:UV:857:GLU:CD	2.27	0.41
26:CD:110:LYS:HE3	42:JP:157:ASN:HD21	1.85	0.41
28:CG:54:MET:HE3	28:CG:78:TYR:HB2	2.01	0.41
30:CI:101:VAL:HG23	30:CI:101:VAL:O	2.21	0.41
31:CJ:230:PHE:CE2	32:CK:355:PRO:HD3	2.55	0.41
32:CK:326:LEU:HD13	32:CK:326:LEU:HA	1.91	0.41
32:CK:484:MET:HB2	32:CK:484:MET:HE3	1.77	0.41
33:CL:737:ASN:OD1	33:CL:738:PHE:N	2.51	0.41
35:CN:167:THR:O	35:CN:170:ASN:HB3	2.21	0.41
36:JD:466:LEU:HD13	36:JD:472:LYS:HE2	2.03	0.41
36:JD:848:GLU:HG2	36:JD:849:SER:N	2.35	0.41
36:JD:1137:PRO:HA	36:JD:1142:ASN:OD1	2.21	0.41
36:JD:1174:ALA:C	36:JD:1177:PRO:HD2	2.46	0.41
37:JG:115:GLN:HE22	37:JG:119:GLY:C	2.28	0.41
37:JG:150:ILE:HD13	37:JG:150:ILE:HA	1.91	0.41
44:JJ:160:LYS:HD2	44:JJ:160:LYS:O	2.20	0.41
45:DE:128:LYS:HB3	45:DE:140:VAL:HB	2.03	0.41
46:DF:116:HIS:O	46:DF:120:ILE:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:222:LYS:HA	46:DF:225:ARG:HE	1.85	0.41
47:DG:25:ARG:HA	47:DG:28:PHE:CD1	2.55	0.41
47:DG:78:THR:HG22	47:DG:79:LYS:N	2.34	0.41
48:DH:97:ARG:HH22	48:DH:100:PRO:C	2.29	0.41
49:DI:25:ARG:HD3	62:D3:400:A:H5"	2.02	0.41
59:DY:91:LEU:HA	59:DY:91:LEU:HD23	1.79	0.41
62:D3:354:C:C2	62:D3:355:G:C8	3.09	0.41
62:D3:683:C:H2'	62:D3:684:A:C8	2.56	0.41
62:D3:689:G:C5	62:D3:690:G:N7	2.89	0.41
62:D3:975:C:H2'	62:D3:976:G:O4'	2.20	0.41
62:D3:1087:A:H2'	62:D3:1088:A:H8	1.86	0.41
62:D3:1693:A:H2'	62:D3:1694:A:H8	1.84	0.41
1:CA:218:ILE:HD13	1:CA:218:ILE:HG21	1.78	0.41
1:CA:311:ARG:HB2	5:UC:583:TYR:CD2	2.56	0.41
2:DA:86:LEU:HB3	2:DA:98:THR:HG21	2.02	0.41
3:UA:10:LEU:HD13	3:UA:702:LEU:HD23	2.02	0.41
3:UA:192:ASP:O	3:UA:193:TYR:CD1	2.73	0.41
3:UA:274:LEU:HD23	3:UA:274:LEU:HA	1.87	0.41
3:UA:291:ASP:N	3:UA:291:ASP:OD1	2.53	0.41
1:CB:240:VAL:HG23	1:CB:261:LEU:HD13	2.02	0.41
1:CB:259:MET:HG3	1:CB:260:PHE:CD2	2.55	0.41
4:UB:99:PHE:CZ	4:UB:765:GLN:HB3	2.55	0.41
4:UB:422:LEU:HD22	4:UB:466:TYR:CE2	2.56	0.41
4:UB:513:GLN:HG2	4:UB:559:ARG:HH21	1.86	0.41
4:UB:751:THR:CA	4:UB:754:GLU:HG2	2.42	0.41
5:UC:588:SER:O	63:D4:110:A:N6	2.53	0.41
6:UD:198:ASP:O	6:UD:215:ALA:O	2.38	0.41
6:UD:202:ILE:HG12	6:UD:212:ILE:HG12	2.02	0.41
6:UD:279:HIS:HB3	6:UD:305:PHE:CZ	2.55	0.41
6:UD:432:SER:HG	6:UD:480:PHE:HD1	1.68	0.41
6:UD:438:GLN:HB2	6:UD:452:HIS:NE2	2.36	0.41
6:UD:546:GLY:C	6:UD:548:GLY:H	2.29	0.41
6:UD:773:LYS:HE2	61:D2:83:U:C4	2.56	0.41
7:UE:175:ILE:HG13	7:UE:176:GLU:N	2.35	0.41
7:UE:221:MET:HE2	7:UE:221:MET:HB2	1.81	0.41
7:UE:231:ASP:HB2	7:UE:249:GLU:OE1	2.21	0.41
7:UE:318:GLN:HB2	7:UE:321:GLU:CD	2.46	0.41
7:UE:453:LEU:CB	7:UE:487:ARG:HH22	2.33	0.41
7:UE:470:PHE:HA	7:UE:508:ILE:HG21	2.02	0.41
7:UE:513:LEU:O	7:UE:516:ILE:HG22	2.21	0.41
8:UF:336:ASN:CG	8:UF:340:GLN:HE22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UG:189:GLN:OE1	9:UG:224:LEU:HD22	2.21	0.41
9:UG:546:ILE:HA	9:UG:546:ILE:HD13	1.78	0.41
11:UI:490:GLU:O	11:UI:494:PRO:HD3	2.20	0.41
11:UI:497:LEU:HB2	17:UO:502:GLN:HG2	2.02	0.41
12:UJ:214:THR:O	12:UJ:218:ILE:HG13	2.20	0.41
12:UJ:248:SER:O	12:UJ:285:ASN:ND2	2.51	0.41
12:UJ:263:VAL:O	12:UJ:266:THR:HG22	2.21	0.41
12:UJ:301:LYS:O	12:UJ:305:THR:HG23	2.20	0.41
12:UJ:419:LEU:HD12	12:UJ:420:LYS:N	2.36	0.41
12:UJ:561:PHE:HB2	12:UJ:598:TYR:CD1	2.55	0.41
12:UJ:733:MET:SD	12:UJ:733:MET:N	2.93	0.41
12:UJ:1382:ASP:O	12:UJ:1385:LEU:HG	2.21	0.41
12:UJ:1651:LEU:O	12:UJ:1654:GLN:HB2	2.20	0.41
12:UJ:1683:HIS:HA	12:UJ:1686:ILE:HG22	2.03	0.41
13:UK:155:THR:HG22	13:UK:158:MET:HB2	2.03	0.41
14:UL:538:ARG:HD3	14:UL:580:ASP:HA	2.03	0.41
15:UM:87:ILE:CG2	15:UM:97:ARG:HB2	2.51	0.41
15:UM:88:PHE:CE2	15:UM:90:LEU:HD23	2.54	0.41
15:UM:286:GLU:OE1	15:UM:360:PRO:HG2	2.20	0.41
15:UM:602:TRP:HA	15:UM:610:LEU:HD23	2.02	0.41
16:UN:344:GLN:O	16:UN:348:GLU:HG2	2.21	0.41
17:UO:51:HIS:O	17:UO:53:HIS:ND1	2.41	0.41
17:UO:156:ASN:ND2	17:UO:159:GLU:HB3	2.36	0.41
17:UO:177:ILE:CG2	17:UO:183:LEU:HB3	2.51	0.41
17:UO:195:LEU:HD13	17:UO:207:TYR:CZ	2.55	0.41
17:UO:243:LYS:HD3	17:UO:243:LYS:HA	1.78	0.41
17:UO:428:ARG:O	17:UO:431:LEU:N	2.44	0.41
17:UO:435:ASP:O	17:UO:439:LEU:HG	2.21	0.41
19:UQ:47:PRO:HG3	19:UQ:91:ILE:HD11	2.03	0.41
19:UQ:57:VAL:HB	19:UQ:382:LYS:NZ	2.36	0.41
19:UQ:152:ARG:NH1	19:UQ:190:GLN:OE1	2.46	0.41
19:UQ:289:GLN:OE1	19:UQ:291:ARG:HG3	2.21	0.41
19:UQ:306:SER:HB3	19:UQ:311:TYR:HB2	2.03	0.41
19:UQ:397:LYS:O	19:UQ:398:HIS:ND1	2.54	0.41
19:UQ:559:LYS:HG3	19:UQ:613:LEU:CD2	2.51	0.41
19:UQ:559:LYS:HA	19:UQ:559:LYS:HD2	1.86	0.41
20:UR:481:TRP:CD2	20:UR:546:LEU:HD23	2.56	0.41
22:UT:142:PHE:O	22:UT:142:PHE:CD2	2.74	0.41
22:UT:294:VAL:O	22:UT:298:MET:HG3	2.21	0.41
22:UT:326:SER:HA	22:UT:368:ASN:HD21	1.86	0.41
22:UT:537:LEU:O	22:UT:541:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:753:GLN:O	22:UT:757:ILE:HG13	2.21	0.41
22:UT:827:ASP:HA	22:UT:830:VAL:HG22	2.01	0.41
22:UT:952:VAL:C	22:UT:954:PRO:HD2	2.45	0.41
22:UT:957:LYS:HB3	22:UT:960:TYR:CD2	2.56	0.41
22:UT:1116:PRO:HA	22:UT:1119:TYR:CE2	2.56	0.41
22:UT:1265:TYR:OH	22:UT:1298:LEU:HD21	2.20	0.41
22:UT:1282:VAL:O	22:UT:1286:GLU:HG2	2.21	0.41
22:UT:1290:GLU:HA	22:UT:1293:ARG:CZ	2.51	0.41
22:UT:1343:GLU:O	22:UT:1346:PRO:HD2	2.21	0.41
22:UT:1347:LEU:O	22:UT:1351:PHE:CD1	2.73	0.41
22:UT:1884:ARG:O	22:UT:1887:LEU:HB3	2.21	0.41
22:UT:2052:GLN:NE2	22:UT:2056:ARG:HG2	2.36	0.41
22:UT:2187:ARG:O	22:UT:2190:TYR:HB3	2.21	0.41
23:UU:371:LYS:HG2	23:UU:413:GLU:OE1	2.21	0.41
23:UU:728:ARG:HD3	23:UU:728:ARG:HA	1.71	0.41
24:UV:116:LEU:HD23	24:UV:194:GLY:O	2.21	0.41
24:UV:117:LYS:HE3	24:UV:117:LYS:HB3	1.90	0.41
24:UV:364:VAL:HA	24:UV:367:ARG:CG	2.51	0.41
24:UV:379:MET:HB2	24:UV:479:LYS:NZ	2.36	0.41
24:UV:543:LEU:HG	24:UV:545:ALA:N	2.36	0.41
24:UV:956:ASN:HD21	24:UV:960:LYS:HE3	1.85	0.41
26:CD:263:ILE:HA	27:CE:156:ALA:HB1	2.02	0.41
27:CE:290:LEU:HA	27:CE:290:LEU:HD12	1.80	0.41
28:CG:58:CYS:O	29:CH:451:ILE:HD12	2.21	0.41
29:CH:134:ARG:HD2	29:CH:484:SER:HB3	2.03	0.41
29:CH:167:LEU:O	29:CH:169:LYS:HE2	2.21	0.41
29:CH:290:LYS:HB2	29:CH:290:LYS:NZ	2.35	0.41
29:CH:419:ASN:ND2	29:CH:419:ASN:O	2.54	0.41
29:CH:456:ASP:O	29:CH:460:ARG:HG3	2.21	0.41
31:CJ:78:ALA:O	32:CK:384:ARG:NH2	2.44	0.41
31:CJ:117:LEU:HA	31:CJ:117:LEU:HD12	1.70	0.41
31:CJ:263:LEU:HA	31:CJ:263:LEU:HD23	1.80	0.41
32:CK:407:LYS:HB3	32:CK:407:LYS:HE3	1.82	0.41
32:CK:529:ARG:NH1	62:D3:1754:A:C4	2.88	0.41
33:CL:727:ARG:CZ	33:CL:730:PHE:HD2	2.34	0.41
33:CL:750:TRP:CD1	58:DX:80:GLY:HA3	2.56	0.41
33:CL:750:TRP:O	33:CL:754:GLN:HG2	2.20	0.41
33:CL:797:PRO:HG2	33:CL:1022:LEU:HD21	2.03	0.41
33:CL:1115:LYS:O	33:CL:1119:ILE:HG12	2.21	0.41
33:CL:1144:LYS:HE3	33:CL:1144:LYS:HB3	1.88	0.41
34:CM:338:PHE:HB3	34:CM:353:THR:OG1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CN:87:LEU:HD23	35:CN:87:LEU:H	1.86	0.41
35:CN:259:ARG:NE	35:CN:259:ARG:CA	2.83	0.41
36:JD:530:GLY:O	36:JD:533:SER:OG	2.29	0.41
37:JF:164:LYS:HE2	37:JF:164:LYS:HB2	1.96	0.41
40:JL:90:MET:O	40:JL:93:GLU:HG3	2.20	0.41
42:JP:361:LYS:NZ	42:JP:381:GLU:OE1	2.53	0.41
42:JP:444:GLU:HG2	42:JP:448:ARG:HD3	2.01	0.41
46:DF:104:ASN:HD22	62:D3:1587:A:H1'	1.86	0.41
47:DG:173:PRO:HA	62:D3:66:U:C5'	2.51	0.41
48:DH:35:LYS:O	48:DH:39:ARG:HG2	2.21	0.41
48:DH:76:LYS:HB2	48:DH:76:LYS:HE2	1.85	0.41
49:DI:100:ALA:O	49:DI:168:CYS:HA	2.21	0.41
51:DL:109:VAL:HG22	51:DL:137:PHE:HB2	2.03	0.41
53:DO:18:ARG:HE	53:DO:31:THR:CG2	2.33	0.41
54:DQ:66:ARG:HB2	54:DQ:66:ARG:CZ	2.51	0.41
56:DT:105:LEU:HD22	56:DT:122:ARG:CD	2.50	0.41
57:DW:77:PRO:HG3	58:DX:7:ARG:HG2	2.01	0.41
57:DW:93:LEU:HD23	57:DW:93:LEU:HA	1.86	0.41
58:DX:127:VAL:HG13	58:DX:127:VAL:O	2.21	0.41
59:DY:55:VAL:HG22	59:DY:75:VAL:HG22	2.03	0.41
62:D3:188:A:N7	62:D3:197:A:H2	2.19	0.41
62:D3:331:A:C6	62:D3:332:U:N3	2.88	0.41
62:D3:401:A:O2'	62:D3:402:C:H4'	2.20	0.41
62:D3:567:A:H2'	62:D3:568:G:O4'	2.20	0.41
62:D3:629:U:C2	62:D3:970:A:C6	3.09	0.41
62:D3:844:A:N6	62:D3:845:G:O6	2.54	0.41
62:D3:896:U:H2'	62:D3:897:C:C6	2.55	0.41
62:D3:900:A:C6	62:D3:901:G:C5	3.09	0.41
62:D3:1697:G:N2	62:D3:1704:U:O2	2.51	0.41
62:D3:1706:C:H2'	62:D3:1707:A:N9	2.35	0.41
62:D3:1714:A:H2'	62:D3:1715:G:C8	2.53	0.41
62:D3:1736:G:H2'	62:D3:1737:G:H8	1.86	0.41
63:D4:44:U:H2'	63:D4:45:U:H6	1.85	0.41
70:EG:94:SER:O	70:EG:137:ILE:N	2.54	0.41
72:EI:342:GLU:O	72:EI:346:SER:N	2.48	0.41
74:EK:319:GLU:O	74:EK:390:ALA:HB1	2.21	0.41
74:EK:535:ARG:C	74:EK:537:LYS:N	2.78	0.41
74:EK:626:VAL:HA	74:EK:640:ASN:O	2.21	0.41
75:EN:957:PRO:HA	75:EN:960:ALA:HB3	2.02	0.41
2:DA:86:LEU:HB3	2:DA:98:THR:HG22	2.02	0.41
2:DA:97:LEU:HB3	2:DA:232:HIS:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UA:33:VAL:HG12	3:UA:34:GLY:N	2.36	0.41
3:UA:259:ASN:CG	3:UA:260:GLN:N	2.76	0.41
1:CB:143:VAL:HG22	1:CB:144:TRP:O	2.20	0.41
7:UE:453:LEU:HB2	7:UE:487:ARG:HH22	1.84	0.41
7:UE:526:LEU:O	7:UE:530:LEU:HG	2.21	0.41
8:UF:276:VAL:O	8:UF:280:THR:HG22	2.21	0.41
9:UG:61:ALA:O	9:UG:64:ASP:HB2	2.21	0.41
10:UH:562:PRO:HB2	10:UH:565:GLU:OE1	2.21	0.41
11:UI:486:LEU:O	11:UI:489:SER:OG	2.38	0.41
12:UJ:683:SER:O	12:UJ:686:SER:OG	2.32	0.41
12:UJ:1544:PHE:HB2	12:UJ:1547:LEU:HB2	2.02	0.41
12:UJ:1725:LEU:HD23	12:UJ:1725:LEU:HA	1.81	0.41
13:UK:16:ARG:NH2	62:D3:556:A:C4	2.87	0.41
14:UL:128:GLN:O	14:UL:136:LEU:HD12	2.20	0.41
14:UL:614:HIS:CB	14:UL:618:ILE:HG13	2.51	0.41
14:UL:839:VAL:O	14:UL:842:ASN:N	2.54	0.41
14:UL:887:LEU:HD12	14:UL:887:LEU:HA	1.85	0.41
15:UM:163:LEU:HB2	15:UM:177:LEU:HD21	2.03	0.41
15:UM:183:LEU:HD12	15:UM:183:LEU:HA	1.81	0.41
15:UM:492:LYS:HA	15:UM:492:LYS:HD2	1.91	0.41
15:UM:563:ASP:OD1	15:UM:564:THR:HG23	2.21	0.41
15:UM:804:TYR:CD2	23:UU:927:LYS:HB3	2.56	0.41
17:UO:61:THR:HG22	17:UO:82:ASP:C	2.46	0.41
17:UO:192:LEU:N	17:UO:211:HIS:H	2.07	0.41
17:UO:415:LEU:HD23	17:UO:419:GLN:NE2	2.35	0.41
19:UQ:519:LEU:HG	19:UQ:521:SER:H	1.86	0.41
20:UR:161:ILE:HD11	23:UU:177:LEU:HD23	2.03	0.41
20:UR:465:THR:HG23	20:UR:468:CYS:H	1.84	0.41
21:US:106:ILE:HA	21:US:158:SER:OG	2.21	0.41
21:US:195:PHE:CE2	21:US:222:LEU:HD11	2.56	0.41
22:UT:1062:LEU:HA	22:UT:1065:VAL:HG12	2.03	0.41
22:UT:1331:LEU:HD22	22:UT:1366:ASN:HB3	2.03	0.41
22:UT:1532:SER:O	22:UT:1536:THR:HG22	2.20	0.41
22:UT:1665:LEU:HD23	22:UT:1665:LEU:HA	1.89	0.41
22:UT:2085:LEU:O	22:UT:2088:THR:HG22	2.21	0.41
22:UT:2465:ARG:NH2	62:D3:823:G:H3'	2.26	0.41
23:UU:72:SER:HA	23:UU:104:GLY:O	2.21	0.41
23:UU:346:ARG:NE	23:UU:384:ALA:HA	2.36	0.41
23:UU:494:LEU:C	23:UU:494:LEU:HD23	2.46	0.41
23:UU:704:ASP:OD1	23:UU:705:ILE:HG13	2.21	0.41
24:UV:467:LEU:O	24:UV:475:ASN:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UV:591:ASP:OD1	24:UV:591:ASP:N	2.54	0.41
24:UV:831:ILE:HD12	24:UV:831:ILE:HA	1.88	0.41
26:CD:327:LYS:HE2	26:CD:327:LYS:HB3	1.84	0.41
27:CE:5:LEU:HD23	27:CE:6:THR:N	2.36	0.41
27:CE:201:ASP:HB3	27:CE:204:ALA:HB3	2.02	0.41
29:CH:343:ASP:O	29:CH:345:THR:OG1	2.36	0.41
32:CK:314:LEU:HD23	32:CK:314:LEU:HA	1.83	0.41
33:CL:78:PRO:HA	33:CL:122:ALA:CB	2.51	0.41
33:CL:111:LYS:O	33:CL:310:THR:OG1	2.34	0.41
33:CL:818:THR:HG21	34:CM:362:THR:OG1	2.21	0.41
33:CL:824:ILE:HD11	33:CL:926:ILE:HG23	2.03	0.41
33:CL:1142:LEU:HD12	33:CL:1142:LEU:HA	1.96	0.41
34:CM:148:GLU:H	34:CM:172:SER:HG	1.63	0.41
34:CM:314:ASN:OD1	34:CM:315:LYS:N	2.52	0.41
34:CM:315:LYS:HD2	34:CM:348:GLU:HB2	2.03	0.41
34:CM:337:VAL:HG22	34:CM:354:ILE:HG12	2.03	0.41
36:JD:396:GLU:O	36:JD:400:ILE:HG12	2.21	0.41
36:JD:1019:GLU:O	36:JD:1023:ILE:HG23	2.21	0.41
36:JD:1047:TYR:CD1	36:JD:1047:TYR:C	2.99	0.41
36:JD:1173:ILE:HG12	36:JD:1174:ALA:N	2.36	0.41
37:JF:130:ILE:HD12	37:JF:137:PHE:CZ	2.56	0.41
37:JG:177:LYS:O	37:JG:221:VAL:HB	2.21	0.41
42:JP:200:LYS:O	42:JP:200:LYS:HG3	2.21	0.41
46:DF:215:ASP:O	46:DF:219:ARG:HG3	2.21	0.41
52:DN:26:PHE:CE2	52:DN:28:LEU:HB2	2.56	0.41
56:DT:51:GLU:OE1	56:DT:51:GLU:N	2.44	0.41
62:D3:474:A:HO2'	62:D3:475:A:P	2.38	0.41
62:D3:681:U:C4	62:D3:682:C:C4	3.09	0.41
62:D3:804:A:H2'	62:D3:805:U:C6	2.56	0.41
62:D3:926:A:H2'	62:D3:927:C:O4'	2.21	0.41
62:D3:1553:G:H2'	62:D3:1554:U:O4'	2.21	0.41
63:D4:66:U:C2'	63:D4:67:G:H5'	2.51	0.41
68:EE:164:ALA:HB3	68:EE:179:LEU:H	1.86	0.41
1:CA:204:GLY:O	1:CA:208:ILE:HG12	2.21	0.40
3:UA:168:LEU:HD21	3:UA:193:TYR:HA	2.02	0.40
3:UA:701:LEU:HA	3:UA:701:LEU:HD12	1.77	0.40
4:UB:115:LYS:O	34:CM:69:TYR:HA	2.20	0.40
4:UB:604:VAL:HG22	4:UB:606:PHE:H	1.86	0.40
4:UB:763:ALA:HB2	32:CK:349:ARG:NE	2.36	0.40
5:UC:562:ARG:HB3	50:DJ:37:LYS:CB	2.51	0.40
5:UC:587:GLN:O	63:D4:110:A:N6	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UD:35:ARG:NE	6:UD:756:GLU:OE1	2.43	0.40
6:UD:347:LEU:HD22	6:UD:361:LEU:HD23	2.03	0.40
6:UD:742:LEU:CD2	6:UD:757:ARG:HG3	2.51	0.40
7:UE:32:GLN:OE1	7:UE:33:PRO:HD2	2.21	0.40
9:UG:329:LEU:CD2	9:UG:340:LEU:HD12	2.51	0.40
9:UG:453:ASP:CG	9:UG:455:ARG:HH11	2.29	0.40
9:UG:509:ILE:HD13	9:UG:509:ILE:HA	1.91	0.40
12:UJ:648:LYS:O	12:UJ:648:LYS:NZ	2.52	0.40
14:UL:194:HIS:O	14:UL:194:HIS:ND1	2.53	0.40
14:UL:243:THR:OG1	14:UL:244:GLU:N	2.53	0.40
14:UL:420:LYS:HD2	14:UL:420:LYS:HA	1.74	0.40
14:UL:645:GLU:N	14:UL:645:GLU:OE1	2.53	0.40
15:UM:241:GLN:NE2	15:UM:268:GLN:OE1	2.55	0.40
15:UM:457:ALA:HB1	15:UM:494:ILE:CD1	2.51	0.40
15:UM:560:TRP:CH2	15:UM:567:VAL:HG13	2.55	0.40
18:UP:164:LYS:HD2	18:UP:164:LYS:HA	1.78	0.40
19:UQ:579:ASN:ND2	19:UQ:579:ASN:O	2.54	0.40
20:UR:136:PRO:HA	20:UR:154:LYS:HG2	2.02	0.40
20:UR:383:TRP:CE3	20:UR:383:TRP:HA	2.56	0.40
21:US:357:ARG:HA	21:US:360:ARG:HG3	2.02	0.40
21:US:417:HIS:O	21:US:417:HIS:CG	2.74	0.40
22:UT:457:PHE:CE2	22:UT:485:ILE:HG21	2.56	0.40
22:UT:905:LEU:HA	22:UT:905:LEU:HD13	1.86	0.40
22:UT:992:LYS:HE2	22:UT:996:ARG:NH1	2.36	0.40
22:UT:996:ARG:HH22	62:D3:133:U:H5”	1.85	0.40
22:UT:1065:VAL:O	22:UT:1069:VAL:HG22	2.21	0.40
22:UT:1591:TYR:CZ	22:UT:1631:PHE:HD2	2.39	0.40
22:UT:1610:MET:N	22:UT:1611:PRO:HD2	2.36	0.40
22:UT:1763:LEU:C	22:UT:1765:GLU:N	2.78	0.40
22:UT:2178:ILE:HA	22:UT:2181:ASP:OD2	2.20	0.40
23:UU:724:SER:OG	23:UU:879:GLU:OE2	2.39	0.40
24:UV:160:VAL:HG13	24:UV:233:ALA:HB2	2.03	0.40
24:UV:571:ARG:HA	24:UV:571:ARG:HD2	1.84	0.40
24:UV:801:LYS:HD2	35:CN:187:HIS:ND1	2.36	0.40
24:UV:1013:THR:HG23	24:UV:1016:GLN:H	1.86	0.40
27:CE:35:SER:HB3	27:CE:37:LYS:HG2	2.03	0.40
27:CE:279:ARG:NE	27:CE:279:ARG:HA	2.36	0.40
29:CH:265:THR:O	29:CH:268:LEU:HD22	2.20	0.40
33:CL:225:ARG:NH1	62:D3:51:A:C6	2.88	0.40
33:CL:231:LYS:HE3	33:CL:231:LYS:HB2	1.91	0.40
33:CL:784:LYS:HB2	33:CL:784:LYS:HE3	1.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CL:1033:ARG:NH1	33:CL:1038:ILE:HG22	2.36	0.40
36:JD:602:TYR:H	36:JD:605:GLU:HB2	1.85	0.40
36:JD:848:GLU:HG2	36:JD:849:SER:H	1.86	0.40
37:JF:91:ILE:HG13	37:JF:94:GLN:HE21	1.87	0.40
42:JP:95:TRP:CE3	42:JP:102:GLU:HB3	2.57	0.40
42:JP:210:LYS:HE2	42:JP:210:LYS:HB3	1.89	0.40
45:DE:104:ASP:OD1	45:DE:105:VAL:N	2.51	0.40
49:DI:84:HIS:NE2	49:DI:90:LEU:HD12	2.36	0.40
62:D3:72:A:O2'	62:D3:73:U:H2'	2.21	0.40
62:D3:416:A:H3'	62:D3:417:A:H8	1.86	0.40
62:D3:1111:G:H2'	62:D3:1112:G:C8	2.57	0.40
63:D4:329:C:H2'	63:D4:330:A:H8	1.86	0.40
1:CA:142:ARG:NH1	1:CA:214:ARG:HH22	2.19	0.40
1:CA:147:PHE:CD2	5:UC:587:GLN:HB3	2.56	0.40
1:CA:156:MET:HE2	1:CA:156:MET:HB2	1.89	0.40
1:CA:178:GLY:HA3	1:CA:210:MET:SD	2.61	0.40
3:UA:42:LEU:HD21	3:UA:339:LEU:HD23	2.04	0.40
1:CB:233:LEU:HD23	1:CB:233:LEU:HA	1.90	0.40
1:CB:253:ILE:HA	1:CB:253:ILE:HD13	1.81	0.40
4:UB:478:ILE:O	4:UB:482:GLN:OE1	2.39	0.40
4:UB:514:TYR:HA	4:UB:519:THR:HG21	2.03	0.40
4:UB:561:ILE:O	4:UB:565:VAL:HG23	2.21	0.40
6:UD:38:PHE:HE2	6:UD:402:TRP:CD2	2.39	0.40
6:UD:156:LEU:HD23	6:UD:168:ILE:O	2.21	0.40
6:UD:340:GLN:N	6:UD:340:GLN:OE1	2.54	0.40
7:UE:322:ILE:HG23	7:UE:323:PRO:HD2	2.02	0.40
7:UE:453:LEU:HA	7:UE:453:LEU:HD23	1.84	0.40
7:UE:481:LEU:HD23	7:UE:481:LEU:HA	1.83	0.40
9:UG:115:HIS:CE1	9:UG:380:ASN:ND2	2.90	0.40
12:UJ:366:ILE:O	12:UJ:370:LEU:HG	2.21	0.40
14:UL:17:ILE:HB	14:UL:360:ASN:HB3	2.03	0.40
14:UL:118:ASN:OD1	14:UL:118:ASN:O	2.39	0.40
14:UL:576:VAL:HG22	14:UL:592:SER:OG	2.22	0.40
15:UM:24:THR:HG21	15:UM:68:LYS:HD2	2.03	0.40
15:UM:243:VAL:HG13	15:UM:243:VAL:O	2.21	0.40
15:UM:387:HIS:CE1	15:UM:407:SER:HB2	2.56	0.40
15:UM:569:LYS:HE3	15:UM:604:CYS:O	2.21	0.40
17:UO:136:ASP:OD1	17:UO:138:LYS:N	2.48	0.40
17:UO:278:ASP:HB2	17:UO:280:HIS:HB2	2.02	0.40
17:UO:500:GLU:HA	17:UO:503:ARG:HD2	2.02	0.40
19:UQ:276:ALA:HA	19:UQ:299:SER:OG	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UR:156:ASN:OD1	20:UR:159:HIS:ND1	2.53	0.40
20:UR:270:LYS:HG2	20:UR:294:PRO:HA	2.04	0.40
20:UR:407:PHE:HD2	20:UR:423:LEU:HD11	1.86	0.40
21:US:44:GLU:HA	21:US:47:GLU:O	2.21	0.40
21:US:220:LEU:HD23	21:US:276:SER:OG	2.21	0.40
21:US:366:LEU:HD21	21:US:379:PHE:CE2	2.56	0.40
22:UT:16:TYR:O	22:UT:17:SER:OG	2.39	0.40
22:UT:169:LYS:HE3	22:UT:169:LYS:HB2	1.97	0.40
22:UT:190:ARG:NH1	22:UT:191:PHE:HE1	2.19	0.40
22:UT:235:LEU:HD23	22:UT:236:PHE:N	2.36	0.40
22:UT:272:VAL:HG21	22:UT:313:ARG:HG3	2.04	0.40
22:UT:397:PHE:O	22:UT:401:LEU:HG	2.21	0.40
22:UT:425:TRP:CZ3	22:UT:426:GLN:HB3	2.57	0.40
22:UT:594:GLY:N	22:UT:597:ARG:HH21	2.18	0.40
22:UT:774:ILE:HD12	22:UT:774:ILE:HA	1.82	0.40
22:UT:1559:LEU:HD11	22:UT:1587:LYS:HZ1	1.86	0.40
22:UT:1942:LEU:HD23	22:UT:1942:LEU:HA	1.84	0.40
22:UT:2179:GLU:O	22:UT:2182:GLU:HG3	2.20	0.40
23:UU:116:ALA:HB1	23:UU:133:ASP:OD1	2.21	0.40
23:UU:126:ASP:O	23:UU:141:LYS:HA	2.22	0.40
23:UU:364:HIS:HD2	23:UU:381:ARG:NE	2.19	0.40
23:UU:661:LYS:HG3	23:UU:662:THR:O	2.22	0.40
24:UV:123:LYS:NZ	24:UV:284:ASN:O	2.54	0.40
24:UV:912:VAL:HG11	24:UV:942:PHE:CE2	2.56	0.40
24:UV:970:TRP:CD1	24:UV:970:TRP:H	2.38	0.40
27:CE:163:ILE:HD13	27:CE:163:ILE:HA	1.86	0.40
28:CG:87:LEU:HD12	28:CG:87:LEU:HA	1.88	0.40
29:CH:224:SER:O	29:CH:226:HIS:HD2	2.04	0.40
29:CH:478:LEU:HA	29:CH:478:LEU:HD12	1.86	0.40
30:CI:70:PHE:HE2	32:CK:437:ILE:HD11	1.86	0.40
33:CL:271:ILE:HD13	33:CL:271:ILE:HA	1.92	0.40
33:CL:906:ASP:OD1	33:CL:906:ASP:N	2.52	0.40
33:CL:986:HIS:CD2	33:CL:986:HIS:N	2.88	0.40
35:CN:139:ASN:O	35:CN:143:LYS:HE2	2.20	0.40
36:JD:437:ASP:HA	36:JD:438:SER:HA	1.85	0.40
36:JD:468:ASP:OD1	36:JD:468:ASP:N	2.55	0.40
37:JG:164:LYS:HA	62:D3:1575:G:O3'	2.20	0.40
37:JG:192:TYR:O	37:JG:196:LEU:HD23	2.21	0.40
41:JM:56:GLU:HB3	41:JM:60:LYS:NZ	2.36	0.40
55:DS:105:VAL:HG22	55:DS:108:LYS:HZ1	1.86	0.40
58:DX:69:ARG:HH21	58:DX:69:ARG:HD3	1.66	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:D3:193:U:N3	62:D3:195:G:C8	2.90	0.40
62:D3:1012:U:C4	62:D3:1013:A:N7	2.90	0.40
63:D4:320:G:C6	63:D4:321:C:C4	3.09	0.40
1:CA:144:TRP:NE1	1:CA:183:HIS:CB	2.84	0.40
4:UB:547:VAL:HA	4:UB:550:VAL:HG22	2.03	0.40
4:UB:696:GLU:O	4:UB:698:ILE:HG12	2.21	0.40
4:UB:703:GLN:HA	4:UB:705:HIS:HE1	1.85	0.40
6:UD:75:ASN:HA	6:UD:91:ILE:O	2.20	0.40
6:UD:497:ILE:N	6:UD:509:GLN:O	2.43	0.40
6:UD:596:MET:HE1	6:UD:598:LEU:HG	2.03	0.40
7:UE:89:SER:OG	7:UE:92:ALA:HB3	2.21	0.40
7:UE:530:LEU:HD13	17:UO:508:LEU:HD21	2.04	0.40
9:UG:118:TYR:CZ	9:UG:125:LEU:HD12	2.56	0.40
10:UH:208:SER:N	10:UH:222:PHE:O	2.53	0.40
12:UJ:210:LEU:HD21	12:UJ:253:CYS:HA	2.04	0.40
12:UJ:277:ALA:O	12:UJ:281:THR:HG23	2.21	0.40
12:UJ:1622:VAL:O	12:UJ:1625:SER:OG	2.36	0.40
13:UK:248:ARG:NH1	20:UR:512:ASP:O	2.54	0.40
14:UL:123:ALA:HB3	14:UL:141:LYS:CD	2.51	0.40
14:UL:550:LEU:HD23	14:UL:550:LEU:HA	1.92	0.40
14:UL:596:ASN:ND2	62:D3:1140:G:H22	2.19	0.40
14:UL:636:ASP:OD2	14:UL:638:VAL:HG22	2.21	0.40
15:UM:16:TYR:O	15:UM:336:ASN:HB2	2.20	0.40
15:UM:217:ASP:OD1	15:UM:218:ASP:N	2.50	0.40
15:UM:253:ASP:OD1	15:UM:253:ASP:N	2.51	0.40
15:UM:538:ASP:OD1	15:UM:539:VAL:N	2.53	0.40
15:UM:540:SER:O	15:UM:548:LEU:HD12	2.20	0.40
16:UN:813:LYS:HE3	16:UN:813:LYS:HB3	1.88	0.40
17:UO:86:SER:HB2	17:UO:128:HIS:O	2.22	0.40
17:UO:211:HIS:CE1	17:UO:235:LYS:HG3	2.56	0.40
18:UP:185:GLN:HG2	18:UP:186:ASP:N	2.36	0.40
19:UQ:547:VAL:HG12	19:UQ:550:PRO:HG3	2.02	0.40
20:UR:304:LEU:HB2	20:UR:362:HIS:CD2	2.55	0.40
21:US:500:ASP:OD1	21:US:500:ASP:N	2.53	0.40
22:UT:33:ASN:CG	22:UT:34:LEU:N	2.76	0.40
22:UT:190:ARG:O	22:UT:194:GLU:HG3	2.21	0.40
22:UT:279:TRP:HE1	22:UT:321:ILE:HA	1.87	0.40
22:UT:647:ALA:HB1	22:UT:651:LYS:NZ	2.35	0.40
22:UT:986:SER:O	22:UT:988:LYS:N	2.52	0.40
22:UT:1221:ILE:HG13	22:UT:1222:SER:N	2.35	0.40
22:UT:1272:PHE:HD1	22:UT:1284:LEU:CD2	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:UT:1439:ILE:HG12	22:UT:1474:HIS:ND1	2.37	0.40
22:UT:1698:LEU:HA	22:UT:1698:LEU:HD23	1.83	0.40
22:UT:2019:ILE:HA	22:UT:2022:THR:HG22	2.02	0.40
22:UT:2030:ASN:HD22	22:UT:2035:ILE:CG2	2.31	0.40
24:UV:120:HIS:HB3	24:UV:288:THR:HB	2.04	0.40
24:UV:153:PHE:CD1	24:UV:158:VAL:HG13	2.57	0.40
25:UX:185:LEU:O	25:UX:188:VAL:HG13	2.21	0.40
26:CD:215:THR:HA	26:CD:218:LYS:NZ	2.37	0.40
26:CD:301:PRO:CG	26:CD:396:PRO:HB2	2.51	0.40
27:CE:2:ALA:HB2	27:CE:19:ASP:HA	2.03	0.40
27:CE:232:GLU:HA	27:CE:235:VAL:HG22	2.03	0.40
30:CI:64:LEU:CD1	30:CI:65:PRO:HD2	2.51	0.40
32:CK:339:ALA:O	32:CK:343:GLU:HG2	2.20	0.40
33:CL:823:GLY:N	33:CL:889:LEU:HD21	2.36	0.40
33:CL:1051:ASP:N	33:CL:1051:ASP:OD1	2.52	0.40
34:CM:196:TYR:HA	34:CM:228:ASP:O	2.20	0.40
34:CM:305:LYS:O	34:CM:307:ASP:N	2.53	0.40
36:JD:490:LYS:HG3	36:JD:492:MET:SD	2.62	0.40
36:JD:525:THR:O	36:JD:529:ILE:HG23	2.20	0.40
36:JD:863:ILE:H	36:JD:863:ILE:HD12	1.87	0.40
36:JD:1188:LEU:HD23	36:JD:1188:LEU:HA	1.90	0.40
37:JG:39:LYS:HE2	37:JG:249:TRP:CZ2	2.56	0.40
37:JG:91:ILE:HG13	37:JG:92:THR:N	2.36	0.40
40:JL:255:TYR:CZ	40:JL:280:LYS:HE2	2.57	0.40
41:JM:120:ASP:OD1	41:JM:173:ILE:HG22	2.21	0.40
42:JP:54:PHE:O	42:JP:382:ARG:NH2	2.53	0.40
42:JP:319:GLU:OE1	42:JP:340:ARG:NH2	2.48	0.40
47:DG:8:PRO:C	47:DG:11:GLY:H	2.29	0.40
56:DT:51:GLU:H	56:DT:51:GLU:CD	2.29	0.40
61:D2:70:A:N3	61:D2:70:A:H2'	2.36	0.40
62:D3:249:U:H3'	62:D3:250:C:H5'	2.02	0.40
62:D3:651:G:C2	62:D3:684:A:C2	3.09	0.40
62:D3:732:G:O2'	62:D3:851:U:OP1	2.20	0.40
62:D3:827:C:O2'	62:D3:828:U:H5'	2.21	0.40
62:D3:1524:A:O2'	62:D3:1525:A:O4'	2.23	0.40
62:D3:1685:G:C4	62:D3:1717:G:C2	3.10	0.40
63:D4:309:G:H2'	63:D4:310:G:C8	2.56	0.40
1:CA:182:SER:HB2	1:CA:214:ARG:NH1	2.36	0.40
1:CA:280:VAL:HG22	1:CA:281:ASP:N	2.36	0.40
2:DA:61:LEU:HD23	2:DA:61:LEU:HA	1.83	0.40
3:UA:180:LYS:HG2	3:UA:184:ALA:HB2	2.01	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:UA:405:SER:HB2	3:UA:436:LEU:HD12	2.03	0.40
3:UA:768:SER:HA	3:UA:805:ALA:HB1	2.03	0.40
1:CB:274:ASN:O	1:CB:278:SER:HB2	2.21	0.40
4:UB:741:LYS:HA	4:UB:741:LYS:HD2	1.80	0.40
6:UD:747:ILE:HG13	6:UD:753:ALA:HB2	2.03	0.40
9:UG:77:GLU:OE2	42:JP:2:LYS:HG2	2.21	0.40
9:UG:451:SER:C	16:UN:843:GLN:OE1	2.64	0.40
12:UJ:567:LEU:HB2	12:UJ:582:VAL:HG13	2.03	0.40
12:UJ:611:ILE:HB	12:UJ:660:LEU:HD23	2.03	0.40
12:UJ:1711:MET:SD	12:UJ:1715:TYR:HE1	2.44	0.40
13:UK:29:GLU:HB2	33:CL:999:ASP:OD2	2.20	0.40
13:UK:231:LYS:NZ	13:UK:233:ILE:HB	2.36	0.40
14:UL:203:HIS:HB2	14:UL:206:GLU:O	2.21	0.40
14:UL:806:MET:HE2	14:UL:835:PHE:HZ	1.87	0.40
15:UM:333:ILE:HD13	15:UM:333:ILE:HG21	1.87	0.40
15:UM:430:TYR:HH	15:UM:467:ILE:C	2.29	0.40
15:UM:758:ARG:HA	15:UM:758:ARG:HD2	1.46	0.40
17:UO:7:ARG:HD2	17:UO:7:ARG:HA	1.88	0.40
17:UO:308:SER:HA	17:UO:309:PRO:HD3	1.96	0.40
17:UO:333:LYS:HA	17:UO:333:LYS:HD2	1.93	0.40
17:UO:458:ILE:H	17:UO:458:ILE:HD12	1.87	0.40
19:UQ:152:ARG:NH1	19:UQ:175:ALA:HB2	2.37	0.40
19:UQ:302:SER:O	19:UQ:303:LEU:HD23	2.21	0.40
19:UQ:581:GLY:HA2	19:UQ:602:PRO:HD2	2.03	0.40
20:UR:155:ILE:HD12	20:UR:155:ILE:HA	1.93	0.40
20:UR:428:ALA:O	20:UR:454:GLY:HA2	2.22	0.40
21:US:289:PHE:CE2	21:US:295:LEU:HG	2.57	0.40
21:US:386:LEU:O	21:US:389:GLU:C	2.65	0.40
22:UT:136:LEU:HD23	22:UT:136:LEU:HA	1.82	0.40
22:UT:1090:ARG:NH1	22:UT:1097:GLU:OE2	2.54	0.40
22:UT:1147:ILE:HG22	22:UT:1198:PHE:CE1	2.56	0.40
22:UT:1642:VAL:O	22:UT:1645:SER:HB3	2.21	0.40
23:UU:66:LEU:HD23	23:UU:66:LEU:HA	1.80	0.40
23:UU:432:THR:OG1	23:UU:443:TRP:NE1	2.53	0.40
24:UV:109:GLU:O	24:UV:112:GLU:HG3	2.22	0.40
24:UV:156:LYS:HD3	24:UV:156:LYS:HA	1.83	0.40
24:UV:243:LEU:HD12	24:UV:246:ASP:OD1	2.22	0.40
24:UV:300:TYR:HD1	24:UV:341:THR:HG23	1.86	0.40
26:CD:127:LEU:HD23	26:CD:127:LEU:HA	1.85	0.40
26:CD:180:LEU:HD13	26:CD:180:LEU:HA	1.85	0.40
26:CD:374:ARG:NH1	63:D4:259:C:OP2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:CE:6:THR:CG2	27:CE:13:ALA:HB3	2.51	0.40
27:CE:287:LEU:HA	27:CE:287:LEU:HD12	1.84	0.40
29:CH:337:VAL:HG11	29:CH:407:MET:HG2	2.02	0.40
33:CL:92:ARG:HH21	33:CL:221:LEU:CD1	2.34	0.40
33:CL:743:GLU:HG3	33:CL:748:ASP:OD1	2.21	0.40
37:JF:179:THR:HB	37:JF:224:LYS:HG2	2.04	0.40
37:JG:45:LEU:HD11	37:JG:208:ALA:HB2	2.03	0.40
37:JG:111:GLN:HG3	37:JG:113:TYR:CE1	2.55	0.40
42:JP:50:LEU:HD13	63:D4:35:U:O2	2.22	0.40
42:JP:114:THR:OG1	42:JP:139:CYS:O	2.33	0.40
42:JP:321:VAL:HG21	42:JP:363:ILE:HD13	2.04	0.40
44:JJ:102:PRO:HG2	44:JJ:105:ARG:HB2	2.03	0.40
48:DH:130:VAL:O	48:DH:133:THR:N	2.54	0.40
49:DI:6:ASP:HB3	49:DI:28:GLU:OE1	2.22	0.40
49:DI:48:THR:OG1	49:DI:52:ASN:HB2	2.22	0.40
52:DN:140:LYS:O	52:DN:145:THR:HG21	2.21	0.40
56:DT:64:HIS:CE1	56:DT:79:LEU:HD21	2.57	0.40
58:DX:58:GLY:HA3	58:DX:68:ILE:O	2.22	0.40
59:DY:105:ARG:O	59:DY:109:LYS:HG3	2.21	0.40
61:D2:18:G:H2'	61:D2:19:A:H8	1.86	0.40
62:D3:142:G:N2	62:D3:266:A:C4	2.90	0.40
62:D3:278:U:H4'	62:D3:279:G:O5'	2.21	0.40
62:D3:386:G:H2'	62:D3:387:A:C8	2.57	0.40
62:D3:649:U:O2'	62:D3:650:U:H5"	2.21	0.40
62:D3:1112:G:H2'	62:D3:1113:A:O4'	2.22	0.40
62:D3:1495:C:N4	62:D3:1512:G:O6	2.35	0.40
63:D4:40:A:C5	63:D4:41:C:C4	3.09	0.40
63:D4:78:G:C6	63:D4:330:A:C6	3.09	0.40
75:EN:355:LYS:O	75:EN:359:SER:N	2.53	0.40
75:EN:872:GLU:C	75:EN:874:GLN:N	2.79	0.40
1:CA:81:ARG:HH11	1:CA:81:ARG:HD3	1.77	0.40
1:CA:319:ARG:HG3	1:CA:319:ARG:NH1	2.36	0.40
3:UA:493:TRP:C	3:UA:495:LYS:H	2.29	0.40
3:UA:522:SER:OG	3:UA:523:MET:N	2.55	0.40
1:CB:300:PRO:C	1:CB:301:LEU:HD12	2.46	0.40
4:UB:388:LEU:CB	4:UB:428:VAL:HG11	2.52	0.40
4:UB:490:PHE:CE2	4:UB:538:LYS:HE2	2.56	0.40
4:UB:662:LEU:HB2	4:UB:663:PRO:HD3	2.04	0.40
4:UB:737:ILE:HD12	4:UB:737:ILE:HA	1.95	0.40
6:UD:272:LEU:HD21	20:UR:399:LYS:CD	2.46	0.40
6:UD:326:ARG:HG2	6:UD:327:LEU:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UE:143:ASN:OD1	7:UE:144:ASN:N	2.54	0.40
7:UE:493:HIS:O	7:UE:493:HIS:ND1	2.53	0.40
8:UF:153:TYR:CE1	8:UF:157:VAL:HG21	2.56	0.40
9:UG:340:LEU:O	9:UG:368:TYR:N	2.54	0.40
9:UG:549:ALA:C	9:UG:550:LEU:HD22	2.46	0.40
12:UJ:69:PHE:HE2	12:UJ:104:LEU:HD12	1.87	0.40
12:UJ:261:LEU:HD23	12:UJ:261:LEU:HA	1.70	0.40
12:UJ:283:LEU:HB3	12:UJ:322:LEU:HG	2.02	0.40
12:UJ:567:LEU:HB2	12:UJ:582:VAL:CG1	2.52	0.40
12:UJ:644:LYS:HA	12:UJ:644:LYS:HD3	1.90	0.40
12:UJ:1548:PHE:HE1	12:UJ:1575:PHE:HE1	1.67	0.40
12:UJ:1592:SER:O	12:UJ:1595:THR:HB	2.20	0.40
14:UL:175:ASP:HB3	14:UL:176:TRP:CZ3	2.56	0.40
14:UL:264:ASN:HB3	14:UL:348:SER:OG	2.21	0.40
17:UO:36:VAL:CG1	17:UO:327:LEU:HB2	2.52	0.40
17:UO:85:TYR:HE1	17:UO:101:ALA:HB2	1.87	0.40
17:UO:150:ARG:HB3	17:UO:152:TRP:CE2	2.56	0.40
17:UO:439:LEU:HD23	17:UO:439:LEU:HA	1.91	0.40
19:UQ:215:VAL:O	19:UQ:219:ASP:HB2	2.22	0.40
20:UR:165:ARG:CZ	23:UU:236:ARG:HH22	2.34	0.40
20:UR:233:LEU:HD12	20:UR:233:LEU:HA	1.89	0.40
20:UR:372:HIS:CE1	20:UR:388:HIS:CD2	3.09	0.40
22:UT:202:LYS:HA	22:UT:202:LYS:HD3	1.69	0.40
22:UT:415:LYS:HE3	22:UT:415:LYS:HB3	1.91	0.40
22:UT:418:GLN:HE22	22:UT:452:ASN:HB2	1.86	0.40
22:UT:431:LYS:HZ2	22:UT:750:TYR:HB3	1.86	0.40
22:UT:891:LEU:HD21	22:UT:929:PHE:HE1	1.87	0.40
22:UT:1059:LEU:HD13	22:UT:1059:LEU:HA	1.90	0.40
22:UT:1193:ASN:O	22:UT:1196:SER:OG	2.37	0.40
22:UT:1307:ASP:HB2	22:UT:1308:LEU:HD12	2.04	0.40
22:UT:1761:ILE:HD11	22:UT:1765:GLU:OE1	2.21	0.40
22:UT:2138:LEU:O	22:UT:2139:GLU:C	2.64	0.40
24:UV:345:TYR:O	24:UV:349:LEU:HG	2.22	0.40
24:UV:434:LEU:HD13	24:UV:439:HIS:HA	2.04	0.40
24:UV:469:ASP:O	24:UV:473:LYS:N	2.54	0.40
24:UV:576:ASP:OD2	24:UV:576:ASP:N	2.55	0.40
25:UX:106:LEU:O	25:UX:109:LEU:HB2	2.21	0.40
26:CD:92:LYS:HD2	26:CD:93:LYS:NZ	2.36	0.40
26:CD:322:LEU:HD12	26:CD:322:LEU:HA	1.74	0.40
27:CE:43:LYS:HZ3	27:CE:127:LEU:HG	1.86	0.40
27:CE:96:ASN:OD1	27:CE:97:ALA:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CH:289:ARG:O	29:CH:292:SER:HB3	2.22	0.40
29:CH:331:LEU:HA	29:CH:331:LEU:HD23	1.75	0.40
31:CJ:215:LYS:N	31:CJ:218:SER:OG	2.55	0.40
33:CL:141:LEU:HA	33:CL:170:VAL:O	2.21	0.40
33:CL:623:LYS:HA	33:CL:623:LYS:HE2	2.03	0.40
33:CL:870:ARG:NH2	62:D3:573:C:O2'	2.32	0.40
33:CL:977:LYS:NZ	62:D3:1597:A:OP1	2.27	0.40
33:CL:1073:VAL:O	33:CL:1076:GLU:N	2.53	0.40
34:CM:143:LYS:HB3	34:CM:180:MET:HE1	2.04	0.40
34:CM:299:VAL:O	34:CM:302:VAL:HG12	2.21	0.40
35:CN:18:PHE:HZ	35:CN:70:PHE:CD1	2.39	0.40
35:CN:175:LEU:HD13	35:CN:175:LEU:HA	1.93	0.40
36:JD:437:ASP:OD1	36:JD:439:PRO:HD3	2.21	0.40
37:JG:176:ARG:O	37:JG:202:ILE:HD12	2.21	0.40
42:JP:407:MET:HE3	42:JP:407:MET:HB3	1.87	0.40
43:Db:19:HIS:CG	43:Db:20:LYS:N	2.89	0.40
45:DE:130:GLN:HB2	45:DE:138:TYR:CZ	2.57	0.40
46:DF:52:GLU:OE2	46:DF:54:LYS:HG2	2.21	0.40
46:DF:190:ILE:O	46:DF:193:THR:HG22	2.21	0.40
47:DG:26:VAL:O	47:DG:30:LYS:NZ	2.40	0.40
47:DG:132:ARG:NH1	62:D3:68:A:C6	2.89	0.40
54:DQ:113:ASP:OD1	54:DQ:113:ASP:C	2.65	0.40
55:DS:15:LEU:HD23	55:DS:22:VAL:O	2.21	0.40
55:DS:116:LEU:HD11	55:DS:120:ARG:HE	1.86	0.40
57:DW:11:LEU:HA	57:DW:11:LEU:HD23	1.91	0.40
58:DX:19:ARG:NH1	62:D3:611:U:OP1	2.32	0.40
58:DX:33:LEU:HD23	58:DX:33:LEU:HA	1.89	0.40
62:D3:496:G:C4	62:D3:497:G:C8	3.09	0.40
62:D3:912:U:H4'	62:D3:913:G:O5'	2.20	0.40
62:D3:976:G:C6	62:D3:1023:A:C4	3.09	0.40
62:D3:1041:G:N2	62:D3:1078:C:C2	2.90	0.40
62:D3:1670:G:H1'	62:D3:1731:A:N6	2.36	0.40
62:D3:1697:G:C6	62:D3:1705:C:N3	2.90	0.40
62:D3:1707:A:H2'	62:D3:1708:U:H6	1.87	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
61	D2	76/81 (93%)	23 (30%)	0
62	D3	1387/1802 (76%)	387 (27%)	25 (1%)
63	D4	214/333 (64%)	58 (27%)	4 (1%)
64	EA	21/22 (95%)	15 (71%)	0
All	All	1698/2238 (75%)	483 (28%)	29 (1%)

All (483) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
61	D2	6	A
61	D2	8	A
61	D2	11	A
61	D2	14	U
61	D2	15	G
61	D2	58	U
61	D2	63	G
61	D2	64	U
61	D2	65	U
61	D2	66	C
61	D2	68	U
61	D2	69	U
61	D2	81	A
61	D2	82	A
61	D2	83	U
61	D2	84	G
61	D2	89	C
61	D2	90	G
61	D2	290	G
61	D2	464	G
61	D2	468	A

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Mol	Chain	Res	Type
61	D2	469	C
61	D2	470	U
62	D3	4	C
62	D3	5	U
62	D3	8	U
62	D3	22	A
62	D3	23	G
62	D3	24	U
62	D3	25	C
62	D3	26	A
62	D3	34	G
62	D3	35	U
62	D3	42	G
62	D3	43	A
62	D3	45	U
62	D3	46	A
62	D3	47	A
62	D3	57	G
62	D3	60	U
62	D3	65	A
62	D3	66	U
62	D3	68	A
62	D3	72	A
62	D3	73	U
62	D3	74	U
62	D3	75	U
62	D3	77	U
62	D3	95	G
62	D3	104	A
62	D3	114	C
62	D3	115	G
62	D3	126	A
62	D3	127	G
62	D3	129	U
62	D3	133	U
62	D3	141	U
62	D3	142	G
62	D3	145	A
62	D3	153	G
62	D3	155	U
62	D3	156	A
62	D3	159	U

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Mol	Chain	Res	Type
62	D3	166	C
62	D3	177	U
62	D3	185	U
62	D3	186	C
62	D3	187	G
62	D3	191	C
62	D3	192	U
62	D3	194	U
62	D3	195	G
62	D3	196	G
62	D3	197	A
62	D3	201	G
62	D3	203	U
62	D3	204	G
62	D3	205	U
62	D3	216	U
62	D3	217	A
62	D3	233	C
62	D3	234	G
62	D3	236	A
62	D3	237	C
62	D3	250	C
62	D3	261	U
62	D3	265	A
62	D3	270	C
62	D3	271	A
62	D3	273	G
62	D3	275	C
62	D3	276	C
62	D3	277	U
62	D3	278	U
62	D3	279	G
62	D3	280	U
62	D3	281	G
62	D3	288	A
62	D3	294	C
62	D3	299	A
62	D3	302	U
62	D3	314	C
62	D3	316	A
62	D3	322	G
62	D3	333	A

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Mol	Chain	Res	Type
62	D3	337	G
62	D3	338	C
62	D3	344	A
62	D3	352	A
62	D3	359	A
62	D3	360	A
62	D3	361	C
62	D3	376	C
62	D3	380	U
62	D3	390	G
62	D3	391	A
62	D3	393	C
62	D3	395	U
62	D3	399	A
62	D3	400	A
62	D3	401	A
62	D3	402	C
62	D3	404	G
62	D3	407	A
62	D3	417	A
62	D3	419	G
62	D3	422	G
62	D3	423	G
62	D3	424	C
62	D3	425	A
62	D3	426	G
62	D3	428	A
62	D3	431	C
62	D3	434	G
62	D3	435	C
62	D3	437	A
62	D3	438	A
62	D3	439	U
62	D3	444	C
62	D3	445	A
62	D3	446	A
62	D3	448	C
62	D3	453	U
62	D3	460	A
62	D3	461	G
62	D3	464	A
62	D3	467	G

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Mol	Chain	Res	Type
62	D3	468	A
62	D3	475	A
62	D3	477	A
62	D3	480	G
62	D3	487	G
62	D3	494	U
62	D3	496	G
62	D3	501	U
62	D3	505	A
62	D3	506	A
62	D3	518	A
62	D3	519	C
62	D3	527	A
62	D3	529	A
62	D3	532	U
62	D3	534	A
62	D3	539	G
62	D3	540	G
62	D3	541	A
62	D3	542	A
62	D3	545	A
62	D3	548	G
62	D3	557	G
62	D3	562	G
62	D3	563	U
62	D3	564	G
62	D3	565	C
62	D3	570	A
62	D3	572	C
62	D3	573	C
62	D3	576	G
62	D3	579	A
62	D3	580	A
62	D3	582	U
62	D3	583	C
62	D3	584	C
62	D3	585	A
62	D3	587	C
62	D3	594	A
62	D3	595	G
62	D3	603	U
62	D3	608	U

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Mol	Chain	Res	Type
62	D3	611	U
62	D3	616	G
62	D3	619	A
62	D3	622	A
62	D3	623	A
62	D3	643	G
62	D3	655	G
62	D3	656	G
62	D3	657	U
62	D3	658	C
62	D3	677	G
62	D3	678	A
62	D3	685	A
62	D3	691	C
62	D3	694	U
62	D3	700	C
62	D3	702	G
62	D3	707	A
62	D3	708	C
62	D3	709	C
62	D3	712	G
62	D3	714	G
62	D3	716	C
62	D3	717	C
62	D3	718	U
62	D3	719	U
62	D3	720	G
62	D3	721	U
62	D3	722	G
62	D3	723	G
62	D3	726	C
62	D3	732	G
62	D3	738	G
62	D3	754	A
62	D3	766	U
62	D3	771	A
62	D3	774	A
62	D3	775	G
62	D3	780	A
62	D3	781	U
62	D3	782	U
62	D3	783	G

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Mol	Chain	Res	Type
62	D3	786	C
62	D3	787	G
62	D3	793	A
62	D3	795	U
62	D3	803	A
62	D3	826	U
62	D3	827	C
62	D3	828	U
62	D3	829	A
62	D3	831	U
62	D3	848	C
62	D3	849	C
62	D3	850	A
62	D3	851	U
62	D3	852	C
62	D3	854	U
62	D3	855	A
62	D3	863	A
62	D3	864	U
62	D3	865	A
62	D3	873	U
62	D3	875	G
62	D3	881	A
62	D3	886	U
62	D3	898	A
62	D3	899	G
62	D3	900	A
62	D3	906	A
62	D3	908	U
62	D3	910	C
62	D3	911	U
62	D3	912	U
62	D3	913	G
62	D3	914	G
62	D3	915	A
62	D3	921	U
62	D3	926	A
62	D3	930	A
62	D3	932	U
62	D3	933	A
62	D3	934	C
62	D3	935	U

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Mol	Chain	Res	Type
62	D3	940	A
62	D3	942	G
62	D3	951	A
62	D3	960	U
62	D3	966	A
62	D3	970	A
62	D3	990	C
62	D3	992	A
62	D3	993	A
62	D3	998	A
62	D3	1000	C
62	D3	1001	A
62	D3	1003	A
62	D3	1006	C
62	D3	1007	C
62	D3	1020	A
62	D3	1024	U
62	D3	1026	A
62	D3	1028	C
62	D3	1031	U
62	D3	1032	G
62	D3	1037	C
62	D3	1039	A
62	D3	1042	G
62	D3	1043	A
62	D3	1058	U
62	D3	1059	U
62	D3	1061	A
62	D3	1062	A
62	D3	1063	U
62	D3	1064	G
62	D3	1072	C
62	D3	1073	G
62	D3	1076	A
62	D3	1080	U
62	D3	1081	A
62	D3	1082	C
62	D3	1092	A
62	D3	1093	A
62	D3	1096	C
62	D3	1097	U
62	D3	1099	U

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Mol	Chain	Res	Type
62	D3	1100	G
62	D3	1113	A
62	D3	1114	G
62	D3	1116	A
62	D3	1119	G
62	D3	1122	G
62	D3	1128	C
62	D3	1131	A
62	D3	1139	A
62	D3	1140	G
62	D3	1141	G
62	D3	1144	U
62	D3	1145	U
62	D3	1158	C
62	D3	1160	A
62	D3	1177	C
62	D3	1471	A
62	D3	1473	U
62	D3	1478	G
62	D3	1481	C
62	D3	1482	C
62	D3	1485	C
62	D3	1487	A
62	D3	1488	G
62	D3	1494	C
62	D3	1496	U
62	D3	1500	C
62	D3	1506	G
62	D3	1524	A
62	D3	1527	C
62	D3	1529	C
62	D3	1534	G
62	D3	1536	G
62	D3	1537	C
62	D3	1538	U
62	D3	1539	G
62	D3	1540	G
62	D3	1542	G
62	D3	1556	A
62	D3	1557	U
62	D3	1558	U
62	D3	1569	A

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Mol	Chain	Res	Type
62	D3	1574	G
62	D3	1577	A
62	D3	1584	G
62	D3	1590	G
62	D3	1595	U
62	D3	1600	A
62	D3	1601	G
62	D3	1602	C
62	D3	1618	C
62	D3	1619	C
62	D3	1621	U
62	D3	1622	G
62	D3	1628	U
62	D3	1629	G
62	D3	1630	U
62	D3	1631	A
62	D3	1633	A
62	D3	1638	G
62	D3	1639	C
62	D3	1645	G
62	D3	1651	A
62	D3	1655	A
62	D3	1657	U
62	D3	1658	G
62	D3	1666	U
62	D3	1671	A
62	D3	1680	G
62	D3	1682	U
62	D3	1683	C
62	D3	1684	U
62	D3	1693	A
62	D3	1695	G
62	D3	1697	G
62	D3	1700	C
62	D3	1702	A
62	D3	1703	C
62	D3	1706	C
62	D3	1709	C
62	D3	1710	U
62	D3	1711	C
62	D3	1712	A
62	D3	1735	U

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Mol	Chain	Res	Type
62	D3	1736	G
62	D3	1741	U
62	D3	1746	A
62	D3	1750	A
62	D3	1780	G
62	D3	1781	A
62	D3	1782	A
62	D3	1783	C
62	D3	1792	G
62	D3	1794	A
62	D3	1796	C
63	D4	2	U
63	D4	3	C
63	D4	4	G
63	D4	13	C
63	D4	14	A
63	D4	18	G
63	D4	22	A
63	D4	28	A
63	D4	29	U
63	D4	30	A
63	D4	31	G
63	D4	32	G
63	D4	33	A
63	D4	34	A
63	D4	35	U
63	D4	37	G
63	D4	38	U
63	D4	39	C
63	D4	46	U
63	D4	48	A
63	D4	63	C
63	D4	67	G
63	D4	70	U
63	D4	71	C
63	D4	72	C
63	D4	87	G
63	D4	88	U
63	D4	90	C
63	D4	91	C
63	D4	93	U
63	D4	94	A

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Mol	Chain	Res	Type
63	D4	109	G
63	D4	110	A
63	D4	111	G
63	D4	115	G
63	D4	116	A
63	D4	118	A
63	D4	140	C
63	D4	141	U
63	D4	144	G
63	D4	145	U
63	D4	151	A
63	D4	155	U
63	D4	157	A
63	D4	158	G
63	D4	159	C
63	D4	177	U
63	D4	187	A
63	D4	188	A
63	D4	199	G
63	D4	205	G
63	D4	252	C
63	D4	254	A
63	D4	255	U
63	D4	324	U
63	D4	325	C
63	D4	329	C
63	D4	332	G
64	EA	161	U
64	EA	162	U
64	EA	163	U
64	EA	164	A
64	EA	165	A
64	EA	166	A
64	EA	167	U
64	EA	169	U
64	EA	170	U
64	EA	171	U
64	EA	172	U
64	EA	175	U
64	EA	176	U
64	EA	177	U
64	EA	178	U

All (29) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
62	D3	34	G
62	D3	114	C
62	D3	155	U
62	D3	272	U
62	D3	278	U
62	D3	418	G
62	D3	540	G
62	D3	545	A
62	D3	583	C
62	D3	765	G
62	D3	782	U
62	D3	912	U
62	D3	997	G
62	D3	1057	U
62	D3	1058	U
62	D3	1063	U
62	D3	1096	C
62	D3	1115	U
62	D3	1481	C
62	D3	1568	C
62	D3	1573	A
62	D3	1600	A
62	D3	1620	C
62	D3	1657	U
62	D3	1670	G
63	D4	38	U
63	D4	143	G
63	D4	156	U
63	D4	157	A

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 6 ligands modelled in this entry, 5 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	$\#\|Z\| > 2$
77	GTP	CL	2001	78	33,34,34	0.98	2 (6%)	50,54,54	1.66	10 (20%)

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
77	GTP	CL	2001	78	-	7/22/38/38	0/3/3/3

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
77	CL	2001	GTP	C5-N7	-2.45	1.34	1.39
77	CL	2001	GTP	O4'-C4'	-2.10	1.40	1.45

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
77	CL	2001	GTP	C5-C4-N3	-5.02	120.39	128.39
77	CL	2001	GTP	C2-N3-C4	4.29	119.69	112.30
77	CL	2001	GTP	C2-N1-C6	-3.44	118.87	125.11
77	CL	2001	GTP	N9-C4-N3	3.09	132.13	125.95
77	CL	2001	GTP	C5-C6-N1	2.68	120.08	113.25
77	CL	2001	GTP	O6-C6-C5	-2.62	119.63	126.53
77	CL	2001	GTP	N9-C8-N7	-2.54	108.69	113.40
77	CL	2001	GTP	C3'-C2'-C1'	2.33	105.87	101.46
77	CL	2001	GTP	C8-N7-C5	2.31	108.38	104.26
77	CL	2001	GTP	C5'-C4'-C3'	-2.04	107.85	115.21

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
77	CL	2001	GTP	C5'-O5'-PA-O3A
77	CL	2001	GTP	C5'-O5'-PA-O1A
77	CL	2001	GTP	C5'-O5'-PA-O2A
77	CL	2001	GTP	C3'-C4'-C5'-O5'
77	CL	2001	GTP	O4'-C4'-C5'-O5'
77	CL	2001	GTP	PB-O3A-PA-O1A
77	CL	2001	GTP	PB-O3A-PA-O2A

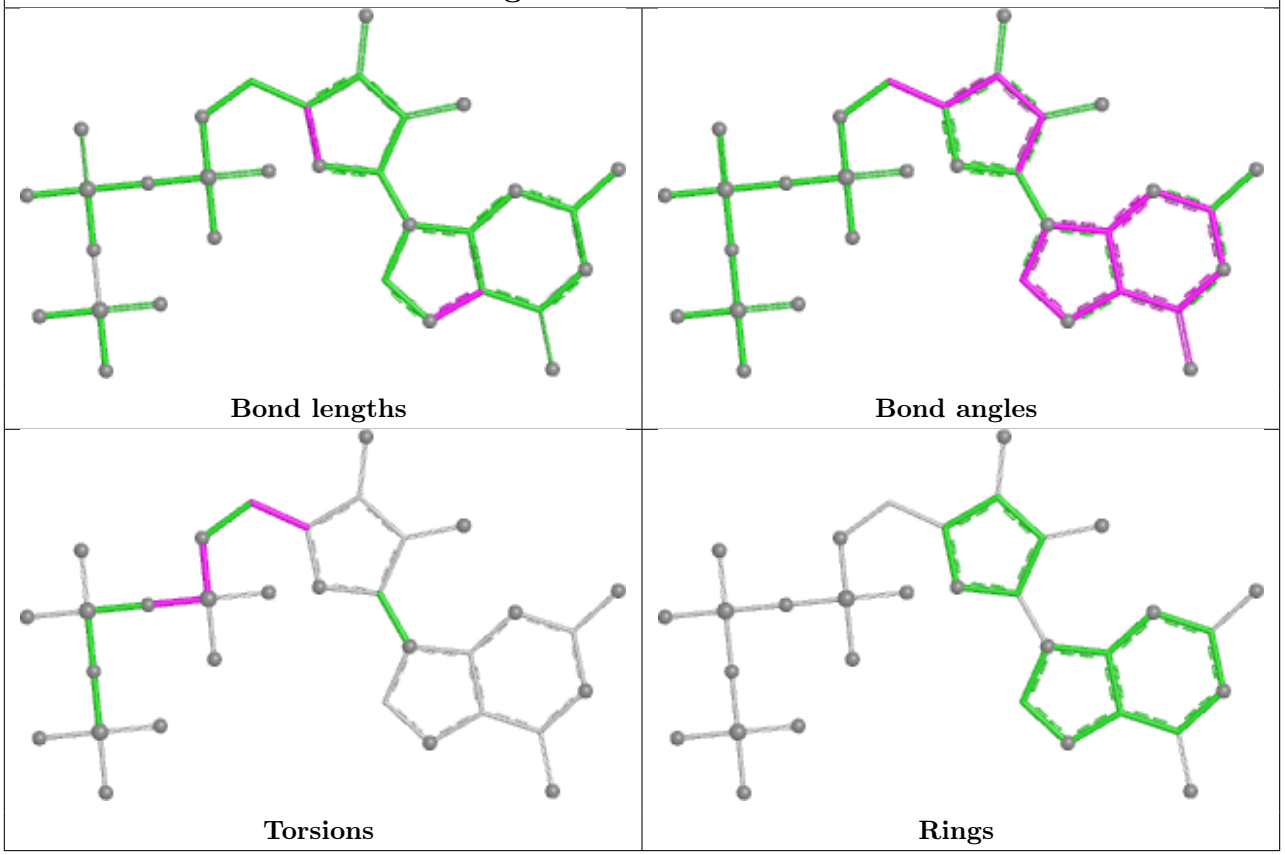
There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
77	CL	2001	GTP	3	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 then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

Ligand GTP CL 2001



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
61	D2	4

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D2	92:C	O3'	281:G	P	62.30
1	D2	292:A	O3'	463:A	P	45.10
1	D2	70:A	O3'	80:A	P	19.53
1	D2	24:U	O3'	56:G	P	14.66

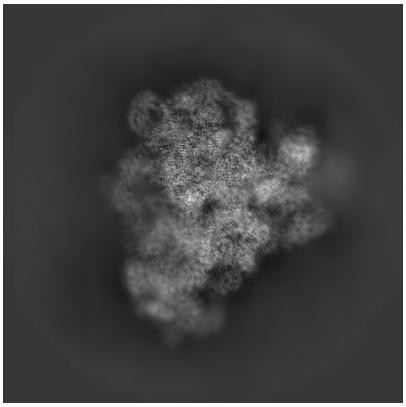
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-11808. These allow visual inspection of the internal detail of the map and identification of artifacts.

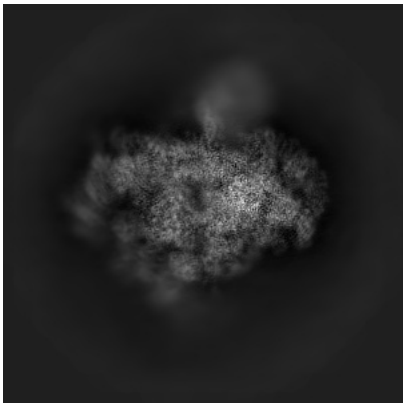
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

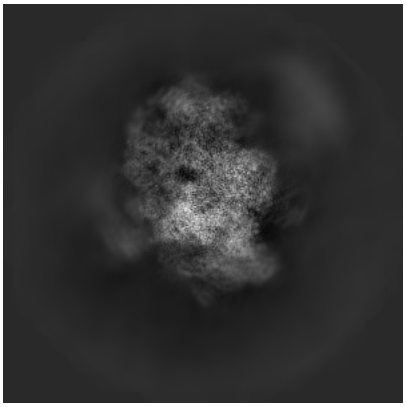
6.1.1 Primary map



X



Y

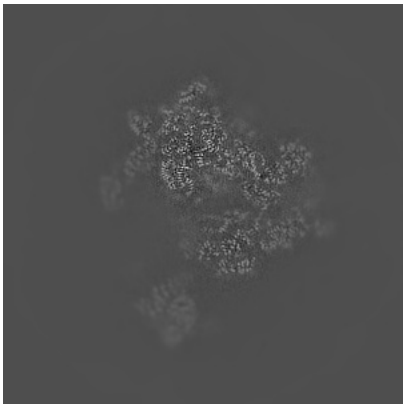


Z

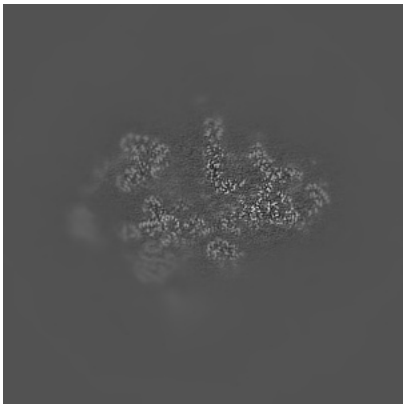
The images above show the map projected in three orthogonal directions.

6.2 Central slices

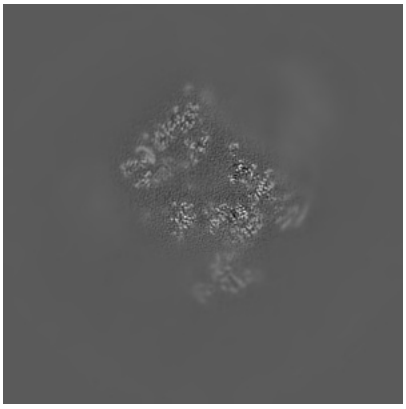
6.2.1 Primary map



X Index: 270



Y Index: 270

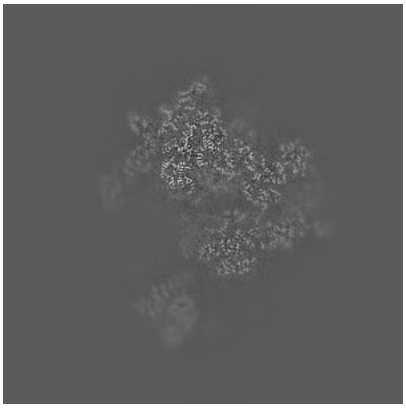


Z Index: 270

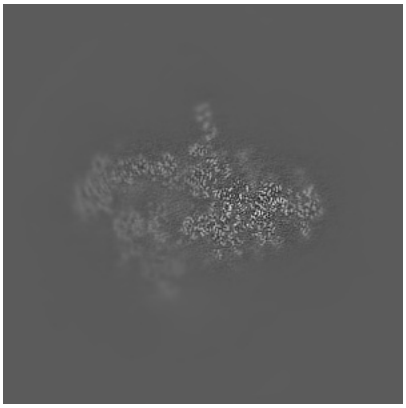
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

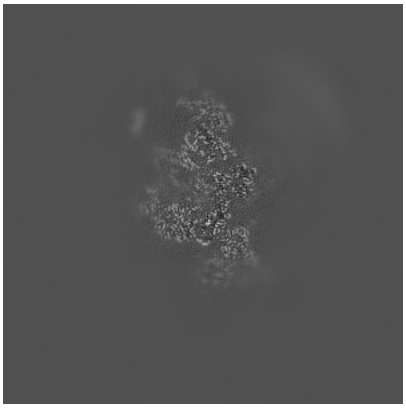
6.3.1 Primary map



X Index: 271



Y Index: 249

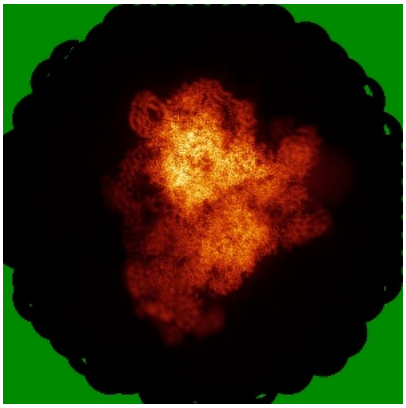


Z Index: 314

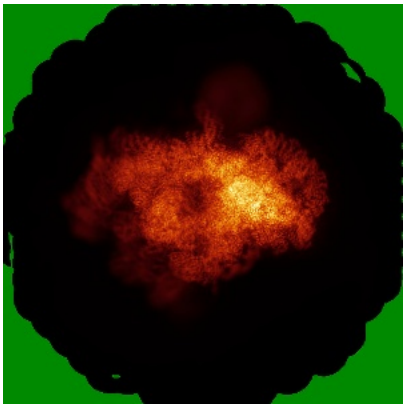
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

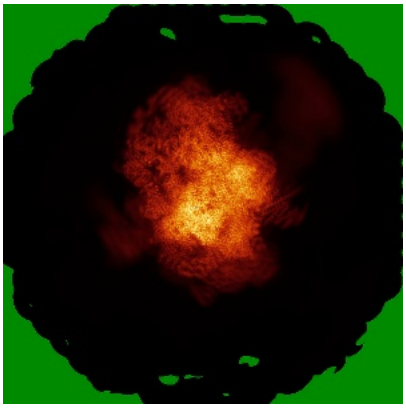
6.4.1 Primary map



X



Y

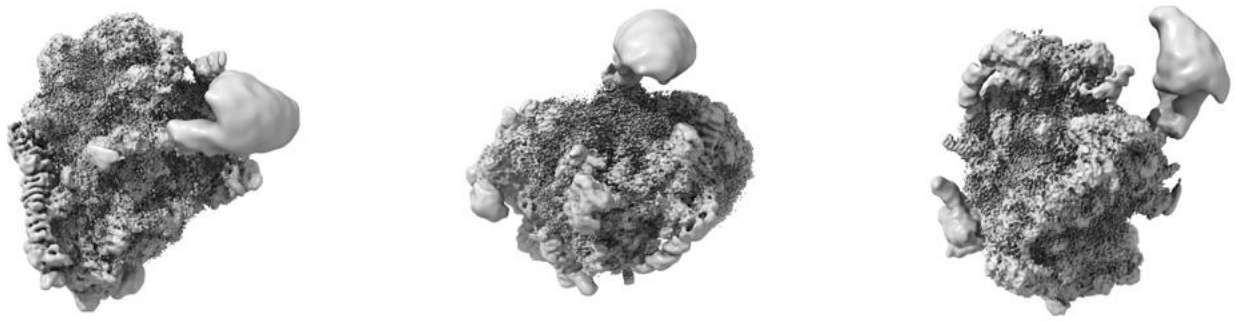


Z

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



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.01. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

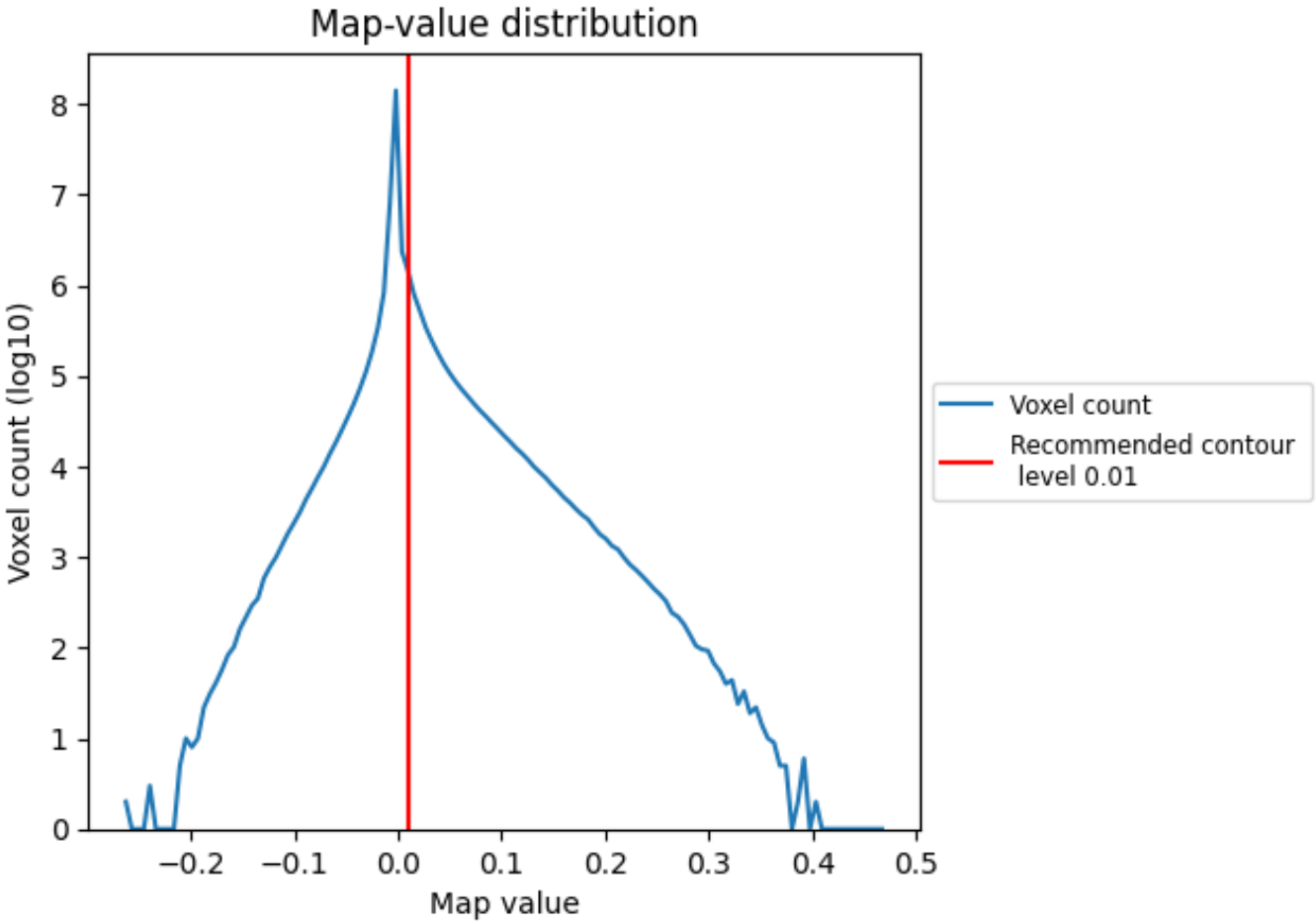
6.6 Mask visualisation (i)

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

7 Map analysis

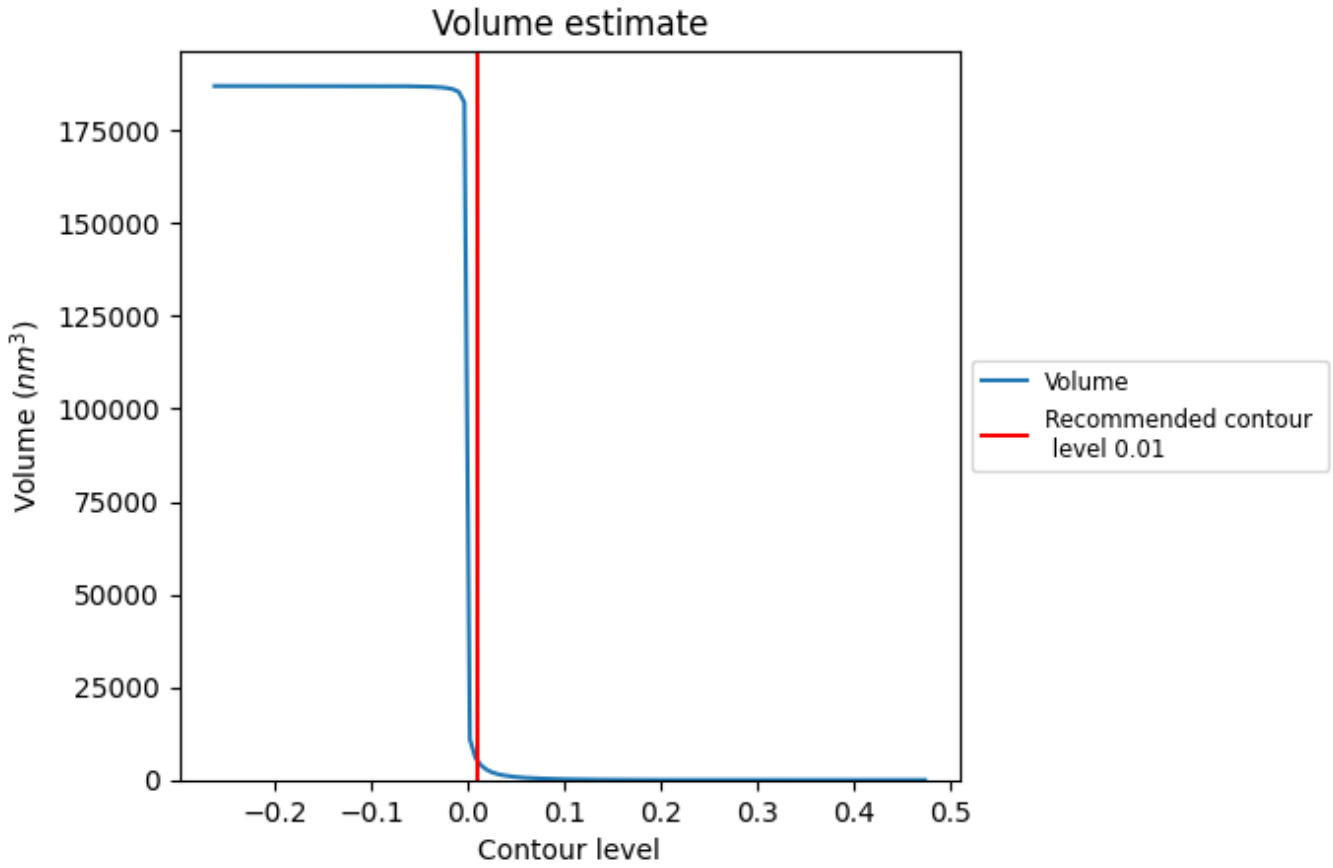
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

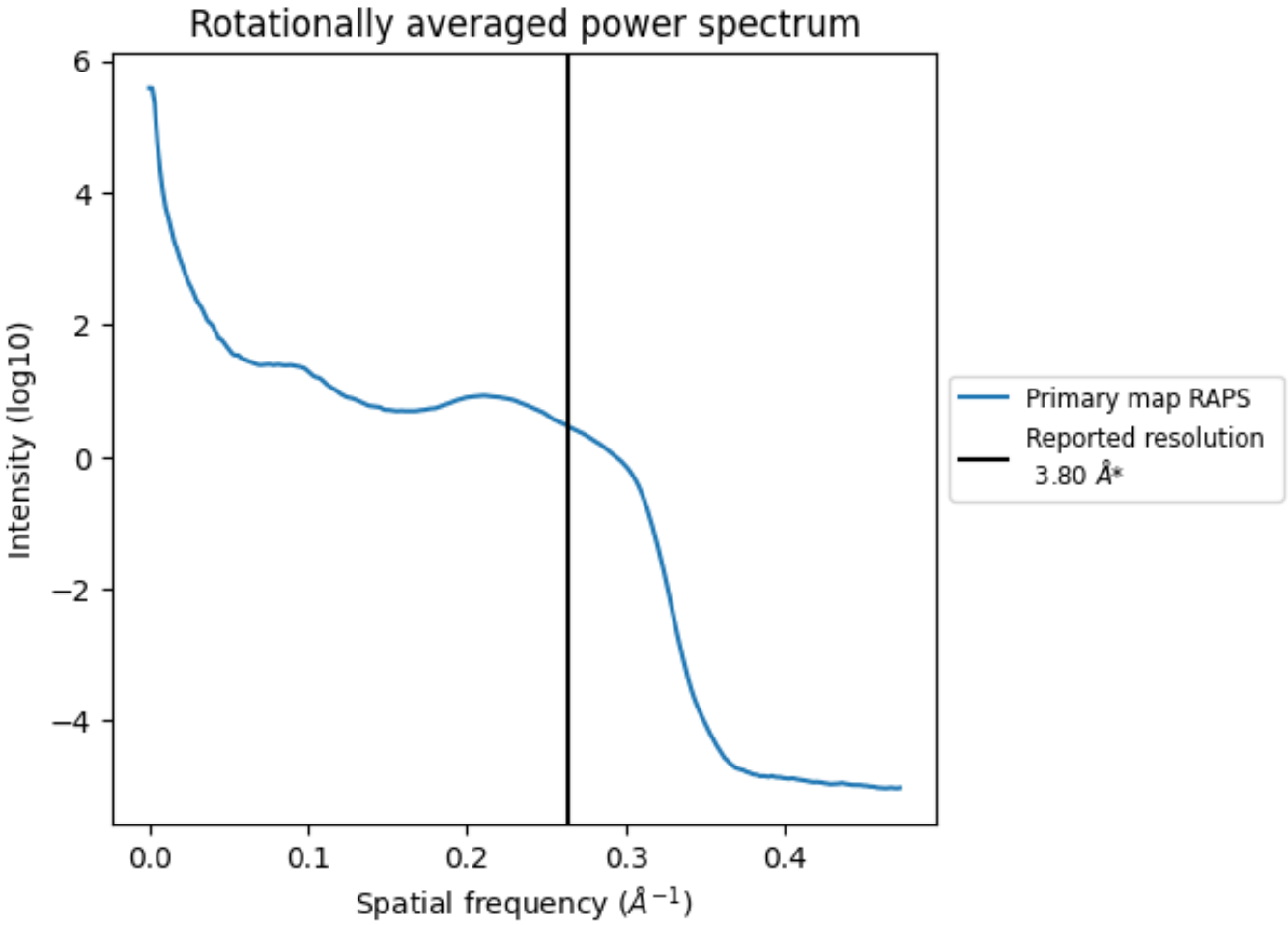
7.2 Volume estimate



The volume at the recommended contour level is 5032 nm^3; this corresponds to an approximate mass of 4545 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 (i)

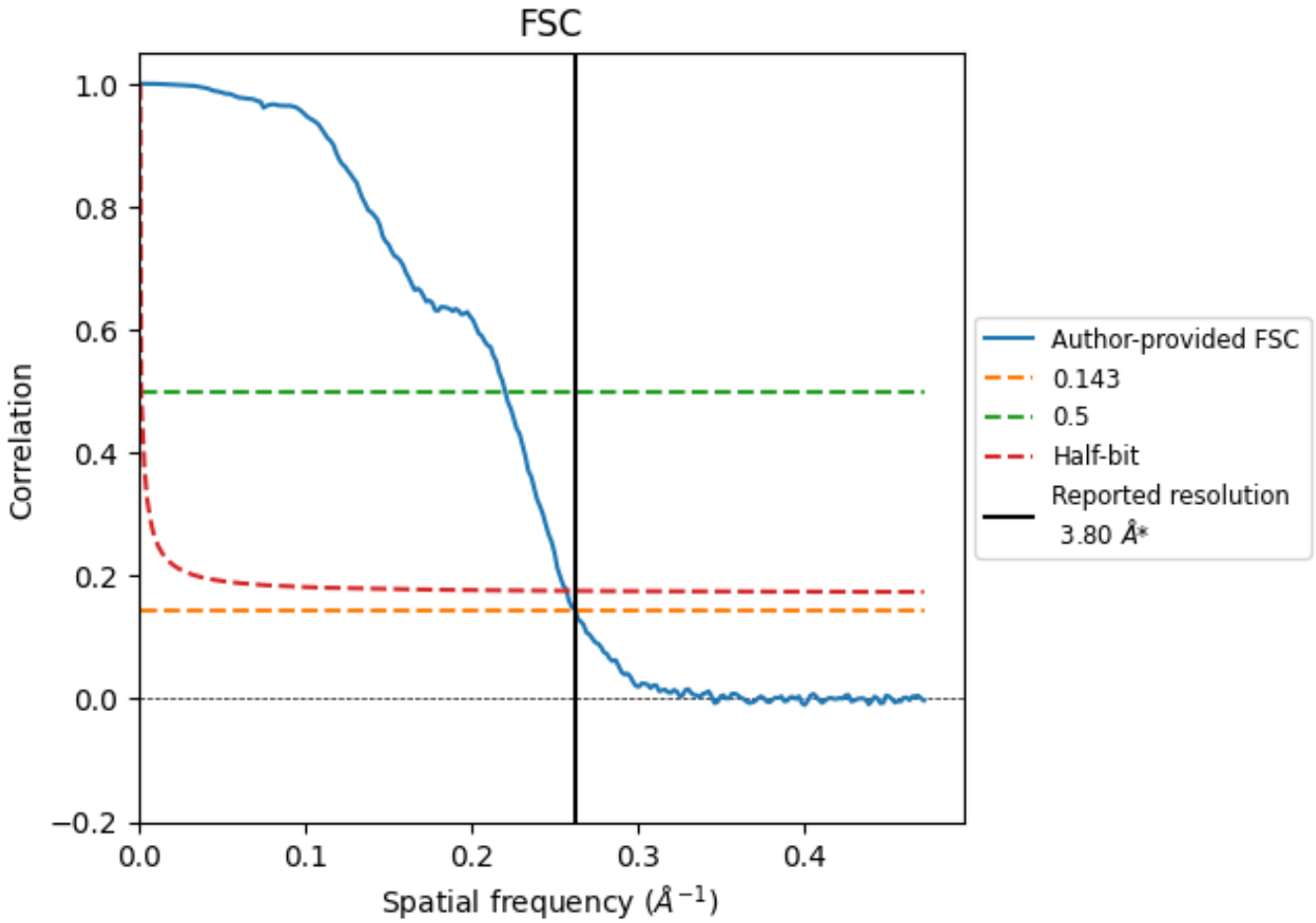


*Reported resolution corresponds to spatial frequency of 0.263 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.263 $Å^{-1}$

8.2 Resolution estimates (i)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.80	-	-
Author-provided FSC curve	3.81	4.54	3.89
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

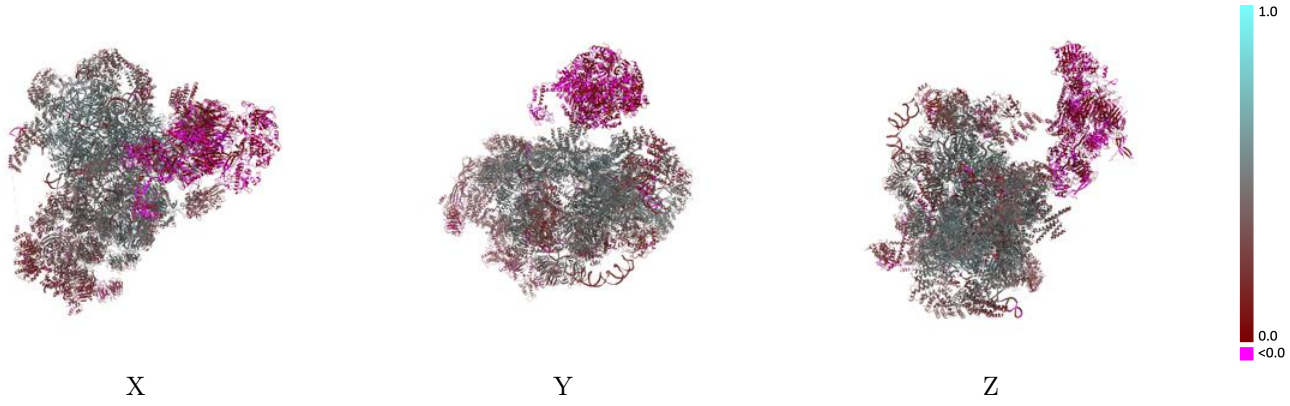
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-11808 and PDB model 7AJU. Per-residue inclusion information can be found in section 3 on page 18.

9.1 Map-model overlay

This section was not generated.

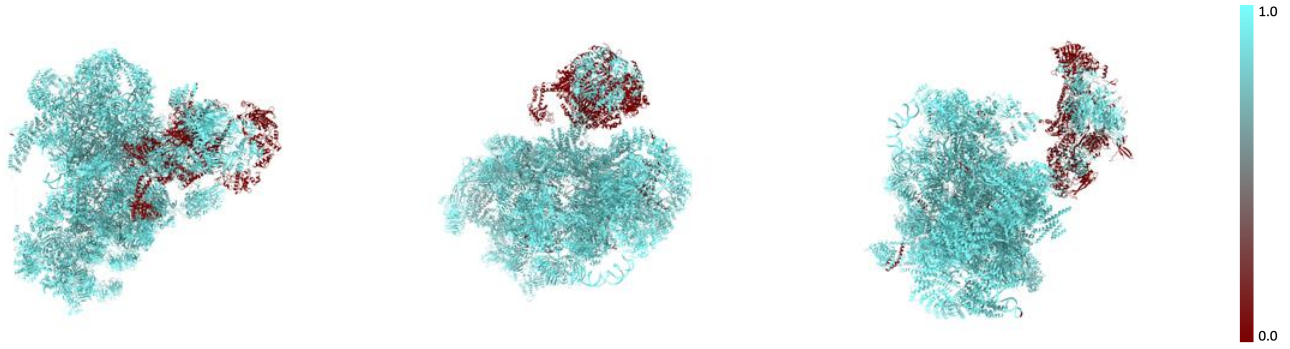
9.2 Q-score mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according 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.

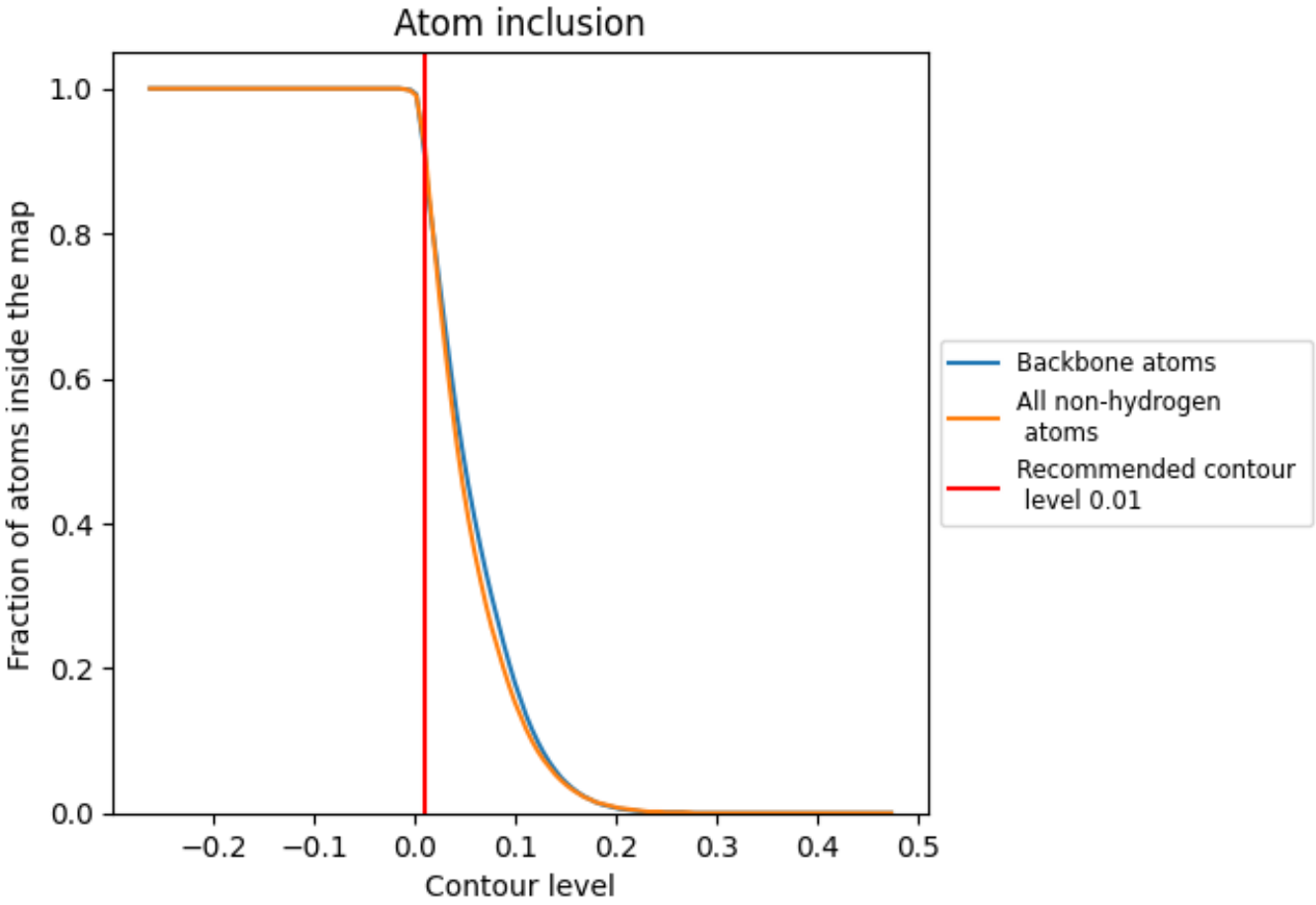
9.3 Atom inclusion mapped to coordinate model



X Y Z

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 (0.01).

9.4 Atom inclusion (i)



At the recommended contour level, 91% of all backbone atoms, 92% 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 (0.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9180	0.3660
CA	0.9820	0.5320
CB	0.9630	0.3860
CD	0.9740	0.4510
CE	0.9670	0.3810
CF	0.9510	0.4100
CG	0.9710	0.5040
CH	0.9900	0.5070
CI	0.9530	0.4040
CJ	0.9470	0.4640
CK	0.9780	0.4530
CL	0.9620	0.4670
CM	0.9870	0.4770
CN	0.9760	0.3130
D2	0.9290	0.2450
D3	0.9780	0.4550
D4	0.9470	0.3430
DA	0.9760	0.5000
DE	0.9900	0.5770
DF	0.9820	0.4750
DG	0.9930	0.4920
DH	0.9720	0.4760
DI	0.9870	0.5300
DJ	0.9830	0.5540
DL	0.9920	0.5440
DN	0.9760	0.5150
DO	0.9870	0.5100
DQ	0.9800	0.4990
DS	0.7790	0.2510
DT	0.7880	0.3220
DW	0.9780	0.5690
DX	0.9720	0.5200
DY	0.9820	0.5460
Db	0.9820	0.5430
Dc	0.9940	0.4990

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Chain	Atom inclusion	Q-score
EA	0.5550	-0.0160
EB	0.3590	0.0030
EC	0.5350	0.0130
ED	0.7980	0.0450
EE	0.8410	0.0480
EF	0.8530	0.0380
EG	0.8260	0.0300
EH	0.1750	0.0420
EI	0.5400	0.0270
EJ	0.1710	0.0100
EK	0.3440	0.0230
EN	0.2480	0.0260
JD	0.9160	0.2530
JF	0.9440	0.1520
JG	0.9410	0.2340
JH	0.9590	0.1490
JI	0.7860	0.1720
JJ	0.9760	0.4860
JL	0.9250	0.3520
JM	0.9550	0.4290
JP	0.9860	0.5510
UA	0.9790	0.5040
UB	0.9330	0.1870
UC	0.9690	0.4960
UD	0.9730	0.3120
UE	0.9530	0.3570
UF	0.9840	0.4230
UG	0.9810	0.5010
UH	0.9720	0.1410
UI	0.9690	0.1760
UJ	0.9340	0.3300
UK	0.9130	0.3730
UL	0.9840	0.4080
UM	0.9720	0.4070
UN	0.9770	0.4800
UO	0.9410	0.2560
UP	0.9330	0.3080
UQ	0.9640	0.2520
UR	0.9620	0.4270
US	0.9320	0.1770
UT	0.9780	0.4140
UU	0.9820	0.4700

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Chain	Atom inclusion	Q-score
UV	0.9740	0.3420
UX	0.9580	0.5330