Full wwPDB EM Validation Report ⓘ

Dec 10, 2025 – 07:31 pm GMT

PDB ID	:	7AJT / pdb_00007ajt
EMDB ID	:	EMD-11807
Title	:	Cryo-EM structure of the 90S-exosome super-complex (state Pre-A1-exosome)
Authors	:	Cheng, J.; Lau, B.; Flemming, D.; Venuta, G.L.; Berninghausen, O.; Beckmann, R.; Hurt, E.
Deposited on	:	2020-09-29
Resolution	:	4.60 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

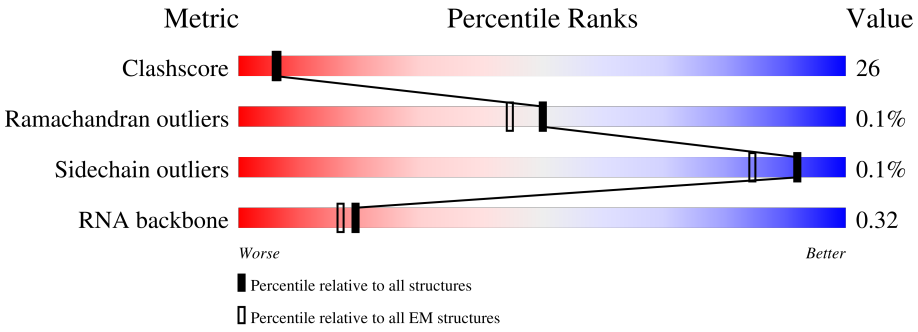
EMDB validation analysis	:	0.0.1.dev129
Mogul	:	1.8.4, CSD as541be (2020)
MolProbity	:	4-5-2 with Phenix2.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up 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)	:	2.47

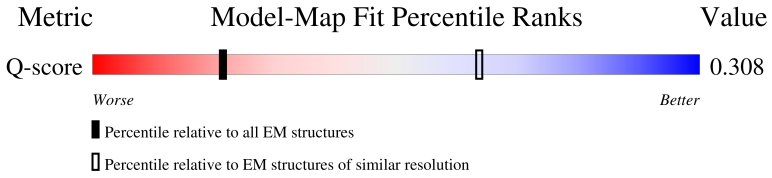
1 Overall quality at a glance

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

The reported resolution of this entry is 4.60 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	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
RNA backbone	6643	2191	-
Q-score	-	25397	2407 (4.10 - 5.10)

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	43% 31% 26%
1	CB	327	26% 43% • 30%
2	DA	255	49% 45% 6%

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Mol	Chain	Length	Quality of chain
3	JA	1056	44% 33% 23%
3	JB	1056	5% 75% 21%
4	UA	923	48% 42% 10%
5	UB	810	37% 25% 37%
6	UC	610	14% 7% 79%
7	UD	776	36% 51% 13%
8	UE	643	37% 37% 26%
9	UF	440	32% 35% 33%
10	UG	554	53% 44%
11	UH	713	43% 18% 38%
12	UI	575	5% 13% 82%
13	UJ	1769	29% 34% 37%
14	UK	250	40% 57%
15	UL	943	43% 46% 11%
16	UM	817	40% 53% 7%
17	UN	899	10% 6% 84%
18	UO	513	41% 55%
19	UP	214	11% 17% 72%
20	UQ	896	42% 51% 7%
21	UR	594	40% 41% 19%
22	US	552	54% 35% 11%
23	UT	2493	47% 43% 10%
24	UU	939	48% 42% 10%
25	UV	1237	43% 45% 13%
26	UX	189	56% 37% 8%

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Mol	Chain	Length	Quality of chain
27	UZ	274	41% 49% 10%
28	CD	504	40% 35% 25%
29	CE	511	41% 44% 15%
30	CF	126	59% 39%
30	CG	126	49% 46%
31	CH	573	39% 42% 19%
32	CI	183	47% 52%
33	CJ	290	50% 47%
34	CK	593	19% 16% 65%
35	CL	1183	32% 34% 34%
36	CM	367	52% 46%
37	CN	297	39% 39% 22%
38	JC	707	17% 33% 50%
39	JF	252	38% 48% 14%
39	JG	252	48% 43% 9%
40	JH	483	53% 46%
41	JI	1729	15% 85%
42	JJ	274	33% 33% 34%
43	JK	534	5% 92%
44	JM	217	35% 26% 38%
45	JN	346	36% 18% 46%
46	JO	316	44% 29% 27%
47	JP	489	48% 46% 6%
48	JQ	206	26% 5% 69%
49	DE	261	44% 50% 6%

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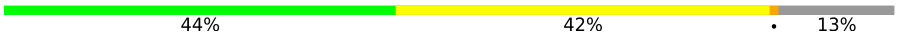
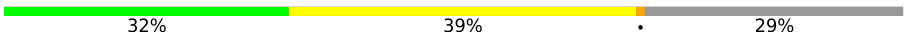
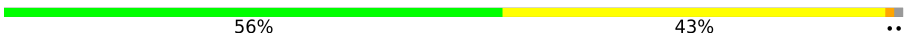
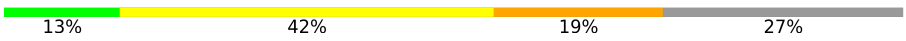
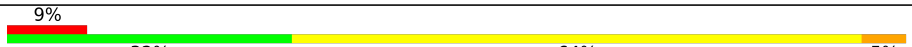
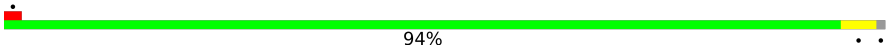
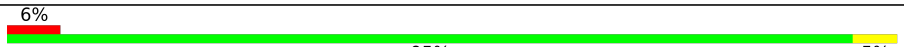
Mol	Chain	Length	Quality of chain
50	DF	225	
51	DG	236	
52	DH	190	
53	DI	200	
54	DJ	197	
55	DL	156	
56	DN	151	
57	DO	137	
58	DQ	143	
59	DS	146	
60	DW	130	
61	DX	145	
62	DY	135	
63	Db	82	
64	Dc	67	
65	D2	700	
66	D3	1808	
67	D4	333	
68	EA	22	
69	EB	305	
70	EC	246	
71	ED	394	
72	EE	223	
73	EF	267	
74	EG	250	

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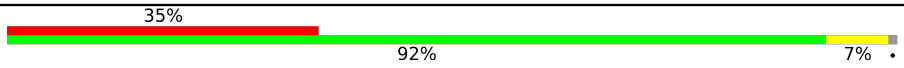
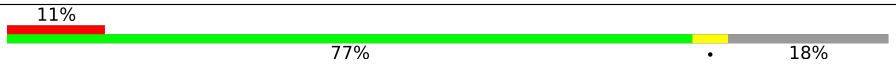
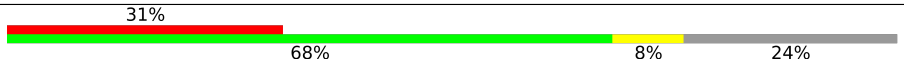
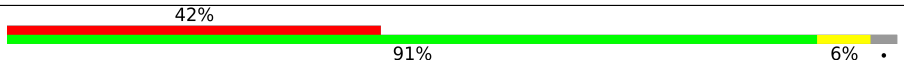
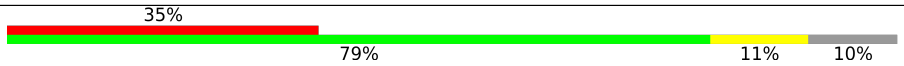
Mol	Chain	Length	Quality of chain
75	EH	240	
76	EI	359	
77	EJ	292	
78	EK	1001	
79	EN	1073	

2 Entry composition

There are 82 unique types of molecules in this entry. The entry contains 256149 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 RNA cytidine acetyltransferase.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	JA	812	Total	C	N	O	S	0	0
			5916	3745	1044	1102	25		
3	JB	835	Total	C	N	O		0	0
			4132	2462	835	835			

- Molecule 4 is a protein called Periodic tryptophan protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	UA	834	Total	C	N	O	S	0	0
			6635	4223	1140	1253	19		

- Molecule 5 is a protein called Nucleolar complex protein 14.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	UB	507	Total	C	N	O	S	0	0
			3734	2367	663	695	9		

- Molecule 6 is a protein called Something about silencing protein 10.

Mol	Chain	Residues	Atoms				AltConf	Trace
6	UC	128	Total	C	N	O	0	0
			1026	633	204	189		

- Molecule 7 is a protein called U3 small nucleolar RNA-associated protein 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	UD	675	Total	C	N	O	S	0	0
			5361	3395	929	1015	22		

- Molecule 8 is a protein called U3 small nucleolar RNA-associated protein 5.

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

- Molecule 9 is a protein called U3 small nucleolar RNA-associated protein 6.

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

- Molecule 10 is a protein called U3 small nucleolar RNA-associated protein 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	UG	533	Total	C	N	O	S	0	0
			4218	2646	758	802	12		

- Molecule 11 is a protein called U3 small nucleolar RNA-associated protein 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	UH	442	Total	C	N	O	S	0	0
			2701	1680	494	524	3		

- Molecule 12 is a protein called U3 small nucleolar RNA-associated protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	UI	104	Total	C	N	O	S	0	0
			860	556	152	150	2		

- Molecule 13 is a protein called U3 small nucleolar RNA-associated protein 10.

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

- Molecule 14 is a protein called U3 small nucleolar RNA-associated protein 11.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	UK	242	Total	C	N	O	S	0	0
			2021	1254	389	371	7		

- Molecule 15 is a protein called U3 small nucleolar RNA-associated protein 12.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	UL	842	Total	C	N	O	S	0	0
			6726	4303	1129	1267	27		

- Molecule 16 is a protein called U3 small nucleolar RNA-associated protein 13.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	UM	762	Total	C	N	O	S	0	0
			5969	3785	1007	1149	28		

- Molecule 17 is a protein called U3 small nucleolar RNA-associated protein 14.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	UN	147	Total	C	N	O	S	0	0
			1227	765	233	227	2		

- Molecule 18 is a protein called U3 small nucleolar RNA-associated protein 15.

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

- Molecule 19 is a protein called Bud site selection protein 21.

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

- Molecule 20 is a protein called NET1-associated nuclear protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	UQ	832	Total	C	N	O	S	0	0
			6662	4236	1124	1283	19		

- Molecule 21 is a protein called U3 small nucleolar RNA-associated protein 18.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	UR	482	Total	C	N	O	S	0	0
			3799	2405	669	715	10		

- Molecule 22 is a protein called Nucleolar complex protein 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	US	494	Total	C	N	O	S	0	0
			3622	2326	617	667	12		

- Molecule 23 is a protein called U3 small nucleolar RNA-associated protein 20.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	UT	2255	Total	C	N	O	S	0	0
			17290	11076	2927	3235	52		

- Molecule 24 is a protein called U3 small nucleolar RNA-associated protein 21.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	UU	848	Total	C	N	O	S	0	0
			6678	4241	1149	1267	21		

- Molecule 25 is a protein called U3 small nucleolar RNA-associated protein 22.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	UV	1081	Total	C	N	O	S	0	0
			8736	5681	1440	1591	24		

- Molecule 26 is a protein called rRNA-processing protein FCF1.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	UX	174	Total	C	N	O	S	0	0
			1395	890	255	240	10		

- Molecule 27 is a protein called Ribosome biogenesis protein UTP30.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	UZ	247	Total	C	N	O	S	0	0
			2006	1284	356	358	8		

- Molecule 28 is a protein called Nucleolar protein 56.

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

- Molecule 29 is a protein called Nucleolar protein 58.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	CE	435	Total	C	N	O	S	0	0
			3325	2093	571	653	8		

- Molecule 30 is a protein called 13 kDa ribonucleoprotein-associated protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	CF	123	Total	C	N	O	S	0	0
			931	594	160	173	4		
30	CG	123	Total	C	N	O	S	0	0
			928	591	160	173	4		

- Molecule 31 is a protein called Ribosomal RNA-processing protein 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	CH	465	Total	C	N	O	S	0	0
			3725	2365	653	697	10		

- Molecule 32 is a protein called U3 small nucleolar ribonucleoprotein protein IMP3.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	CI	182	Total	C	N	O	S	0	0
			1530	967	287	269	7		

- Molecule 33 is a protein called U3 small nucleolar ribonucleoprotein protein IMP4.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	CJ	282	Total	C	N	O	S	0	0
			2296	1441	430	418	7		

- Molecule 34 is a protein called U3 small nucleolar RNA-associated protein MPP10.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	CK	207	Total	C	N	O	S	0	0
			1667	1034	297	332	4		

- Molecule 35 is a protein called Ribosome biogenesis protein BMS1.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	CL	781	Total	C	N	O	S	0	0
			6332	4063	1122	1117	30		

- Molecule 36 is a protein called RNA 3'-terminal phosphate cyclase-like protein.

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

- Molecule 37 is a protein called Ribosomal RNA-processing protein 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	CN	232	Total	C	N	O	S	0	0
			1893	1213	322	351	7		

- Molecule 38 is a protein called Ribosome biogenesis protein ENP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	JC	354	Total	C	N	O	S	0	0
			2845	1795	489	552	9		

- Molecule 39 is a protein called Ribosomal RNA small subunit methyltransferase NEP1.

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

- Molecule 40 is a protein called Essential nuclear protein 1.

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

- Molecule 41 is a protein called rRNA biogenesis protein RRP5.

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

- Molecule 42 is a protein called Pre-rRNA-processing protein PNO1.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	JJ	182	Total	C	N	O	S	0	0
			1442	923	259	256	4		

- Molecule 43 is a protein called Protein BFR2.

Mol	Chain	Residues	Atoms				AltConf	Trace
43	JK	42	Total	C	N	O	0	0
			334	213	54	67		

- Molecule 44 is a protein called rRNA-processing protein FCF2.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	JM	135	Total	C	N	O	S	0	0
			1137	721	211	201	4		

- Molecule 45 is a protein called Protein FAF1.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	JN	186	Total	C	N	O	S	0	0
			1428	879	287	259	3		

- Molecule 46 is a protein called KRR1 small subunit processome component.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	JO	230	Total	C	N	O	S	0	0
			1876	1203	330	332	11		

- Molecule 47 is a protein called Protein SOF1.

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

- Molecule 48 is a protein called Regulator of rDNA transcription protein 14.

Mol	Chain	Residues	Atoms				AltConf	Trace
48	JQ	63	Total	C	N	O	0	0
			381	234	69	78		

- Molecule 49 is a protein called 40S ribosomal protein S4-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	DE	245	Total	C	N	O	S	0	0
			1944	1245	360	336	3		

- Molecule 50 is a protein called 40S ribosomal protein S5.

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

- Molecule 51 is a protein called 40S ribosomal protein S6-A.

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

- Molecule 52 is a protein called 40S ribosomal protein S7-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
52	DH	184	Total	C	N	O	0	0
			1481	951	265	265		

- Molecule 53 is a protein called 40S ribosomal protein S8-A.

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

- Molecule 54 is a protein called 40S ribosomal protein S9-A.

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

- Molecule 55 is a protein called 40S ribosomal protein S11-A.

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

- Molecule 56 is a protein called 40S ribosomal protein S13.

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

- Molecule 57 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	DO	120	Total	C	N	O	S	0	0
			881	544	167	167	3		

- Molecule 58 is a protein called 40S ribosomal protein S16-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
58	DQ	125	Total	C	N	O	0	0
			973	625	174	174		

- Molecule 59 is a protein called 40S ribosomal protein S18-A.

Mol	Chain	Residues	Atoms				AltConf	Trace
59	DS	104	Total	C	N	O	0	0
			516	308	104	104		

- Molecule 60 is a protein called 40S ribosomal protein S22-A.

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

- Molecule 61 is a protein called 40S ribosomal protein S23-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	DX	103	Total	C	N	O	S	0	0
			786	503	144	137	2		

- Molecule 62 is a protein called 40S ribosomal protein S24-A.

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

- Molecule 63 is a protein called 40S ribosomal protein S27-A.

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

- Molecule 64 is a protein called 40S ribosomal protein S28-A.

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

- Molecule 65 is a RNA chain called 5'ETS RNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
65	D2	446	Total	C	N	O	P	0	0
			9508	4250	1682	3130	446		

- Molecule 66 is a RNA chain called 18S rRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	D3	1327	Total	C	N	O	P	0	0
			28287	12644	5022	9294	1327		

- Molecule 67 is a RNA chain called U3 snoRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
67	D4	230	Total	C	N	O	P	0	0
			4869	2180	841	1618	230		

- Molecule 68 is a RNA chain called RNA.

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

- Molecule 69 is a protein called Exosome complex component RRP45.

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

- Molecule 70 is a protein called Exosome complex component SKI6.

Mol	Chain	Residues	Atoms				AltConf	Trace
70	EC	244	Total 1204	C 716	N 244	O 244	0	0

- Molecule 71 is a protein called Exosome complex component RRP43.

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

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
ED	363	MET	VAL	conflict	UNP P25359

- Molecule 72 is a protein called Exosome complex component RRP46.

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

- Molecule 73 is a protein called Exosome complex component RRP42.

Mol	Chain	Residues	Atoms				AltConf	Trace
73	EF	267	Total 1326	C 792	N 267	O 267	1	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
EF	-1	GLY	-	expression tag	UNP Q12277
EF	0	HIS	-	expression tag	UNP Q12277
EF	138	ILE	VAL	conflict	UNP Q12277

- Molecule 74 is a protein called Exosome complex component MTR3.

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

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
EG	75	SER	THR	conflict	UNP P48240

- Molecule 75 is a protein called Exosome complex component RRP40.

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

- Molecule 76 is a protein called Exosome complex component RRP4.

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

- Molecule 77 is a protein called Exosome complex component CSL4.

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

- Molecule 78 is a protein called Exosome complex exonuclease DIS3.

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

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
EK	171	ASN	ASP	conflict	UNP Q08162
EK	551	ASN	ASP	conflict	UNP Q08162

- Molecule 79 is a protein called ATP-dependent RNA helicase DOB1.

Mol	Chain	Residues	Atoms				AltConf	Trace
79	EN	964	Total	C	N	O	0	0
			4767	2842	964	961		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
EN	80	MET	VAL	conflict	UNP P47047

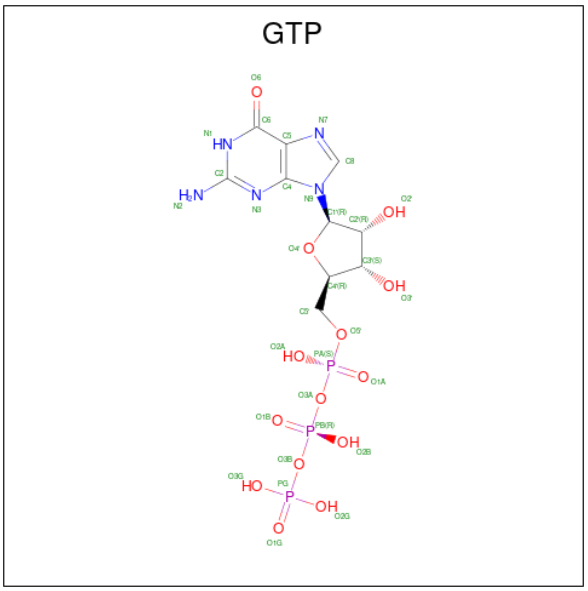
- Molecule 80 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

- Molecule 81 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
81	UX	1	Total	Mg	0
			1	1	
81	CL	1	Total	Mg	0
			1	1	
81	EK	1	Total	Mg	0
			1	1	

- Molecule 82 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$).



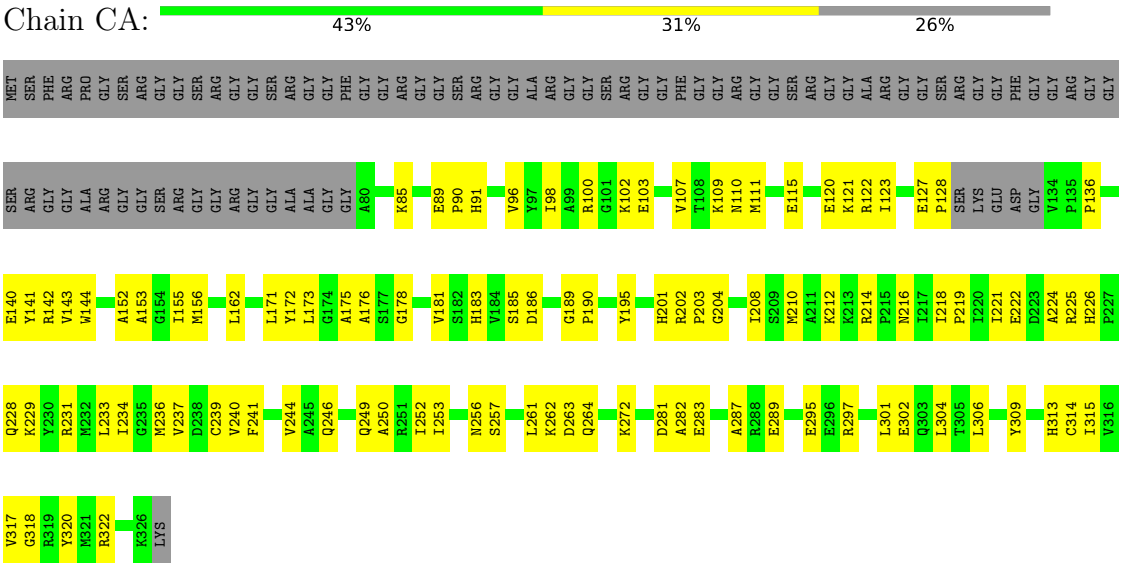
Mol	Chain	Residues	Atoms					AltConf
82	CL	1	Total	C	N	O	P	0
			32	10	5	14	3	

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.

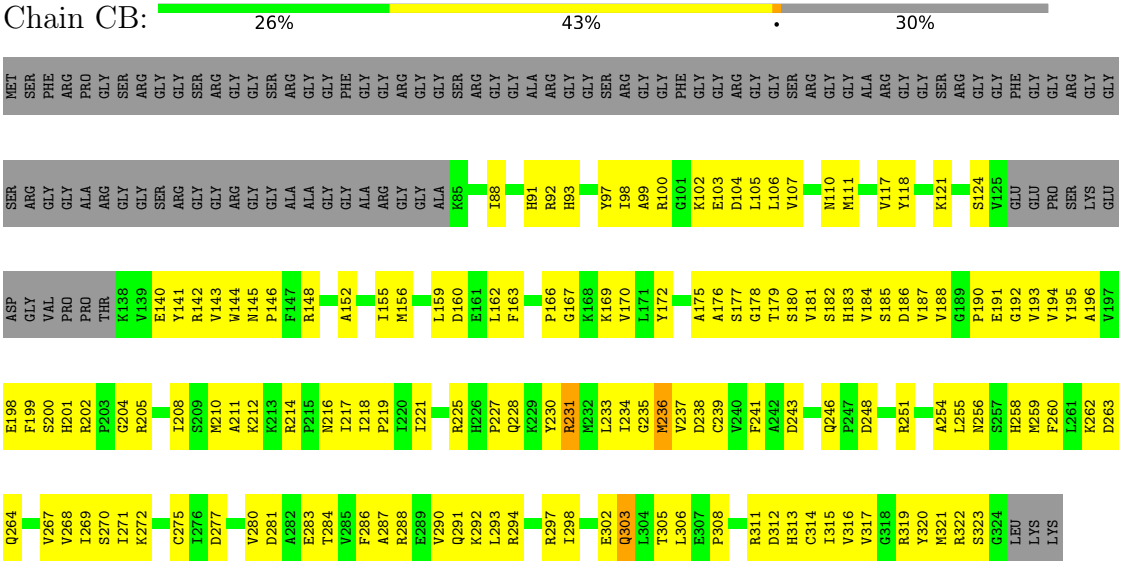
• Molecule 1: rRNA 2'-O-methyltransferase fibrillarin

Chain CA:



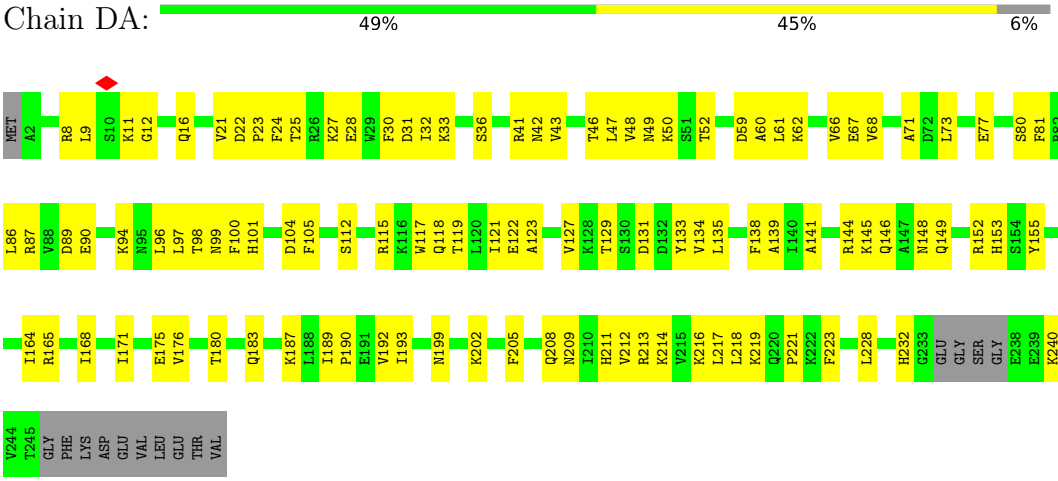
• Molecule 1: rRNA 2'-O-methyltransferase fibrillarin

Chain CB:



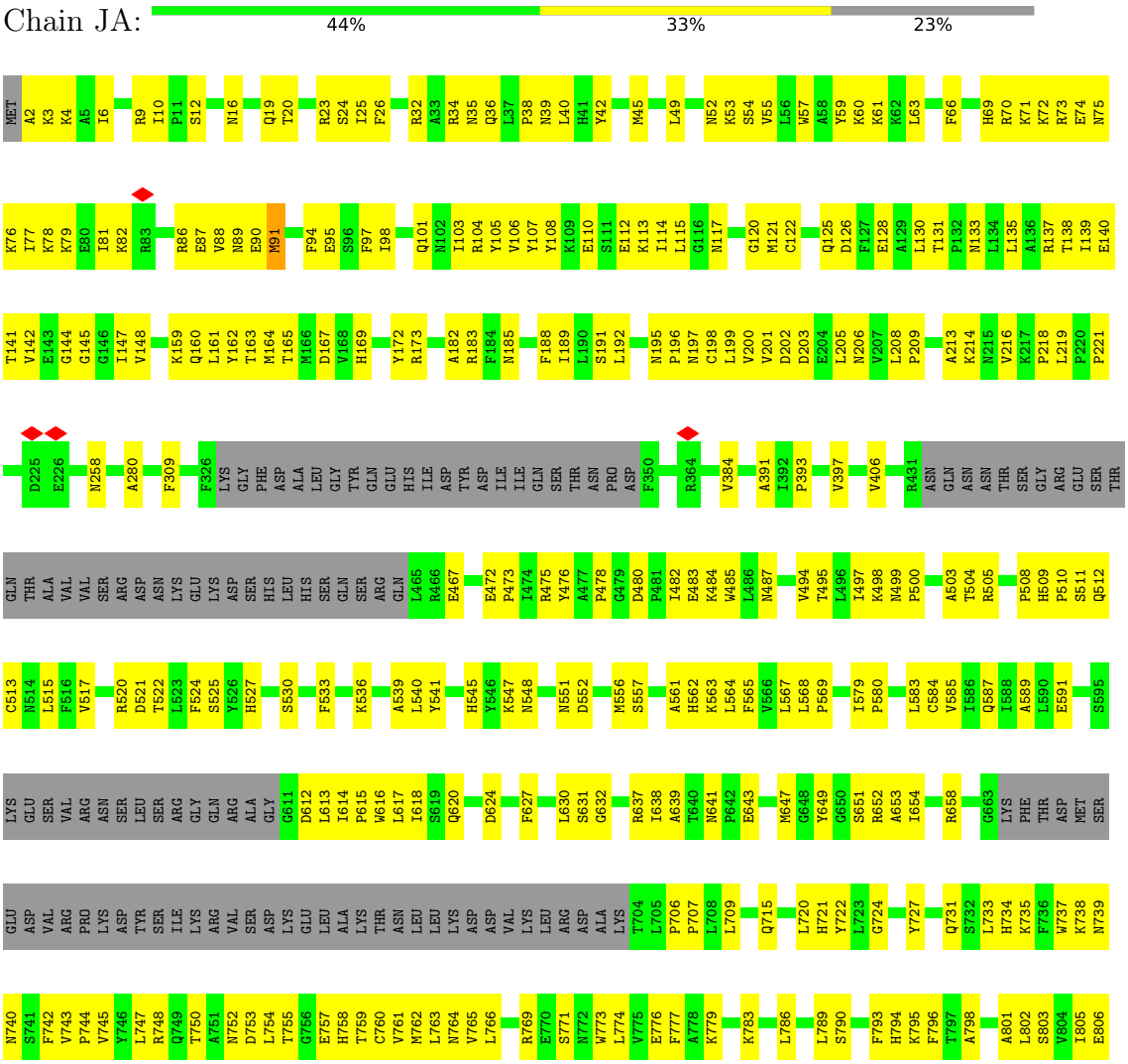
• Molecule 2: 40S ribosomal protein S1-A

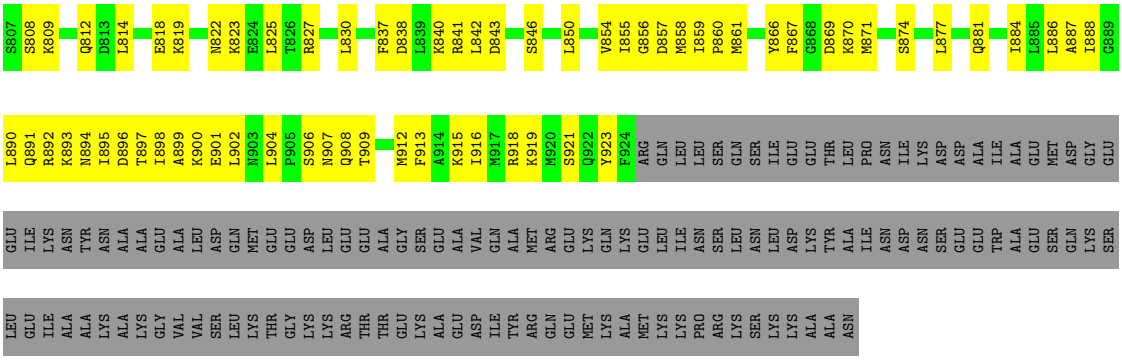
Chain DA:



• Molecule 3: RNA cytidine acetyltransferase

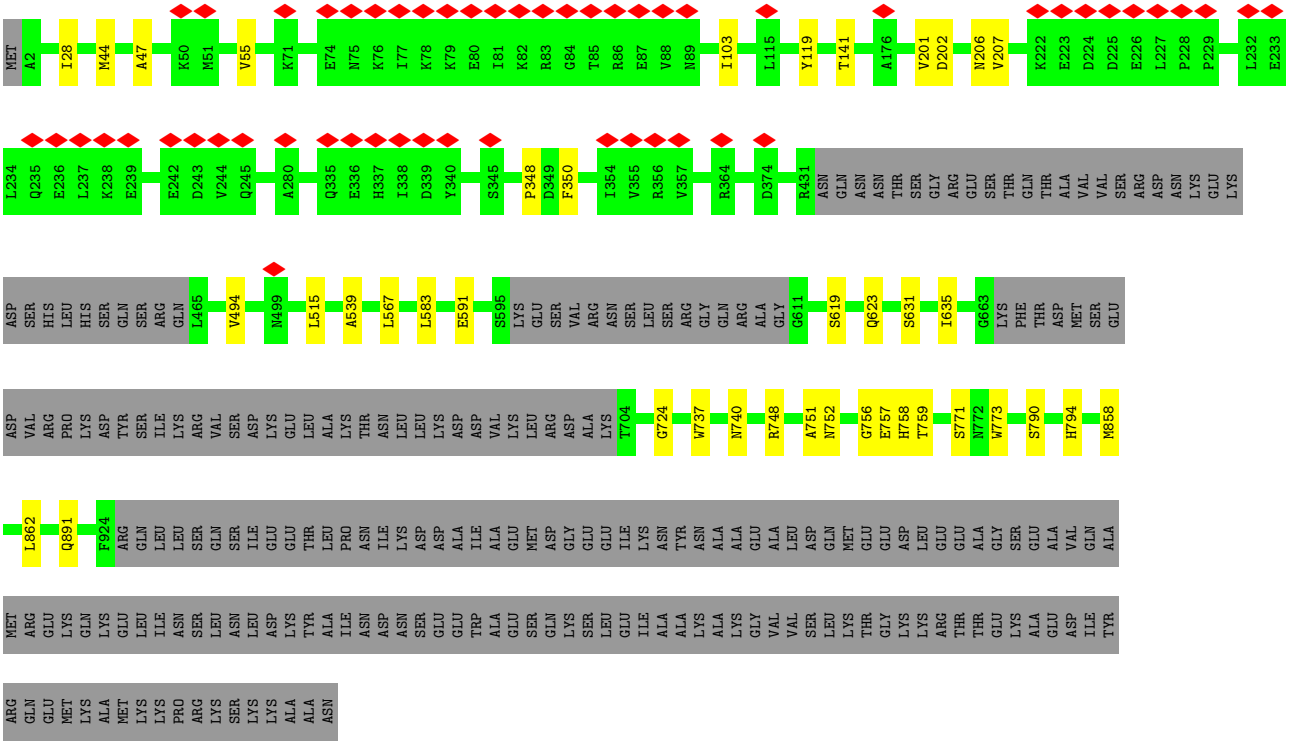
Chain JA:





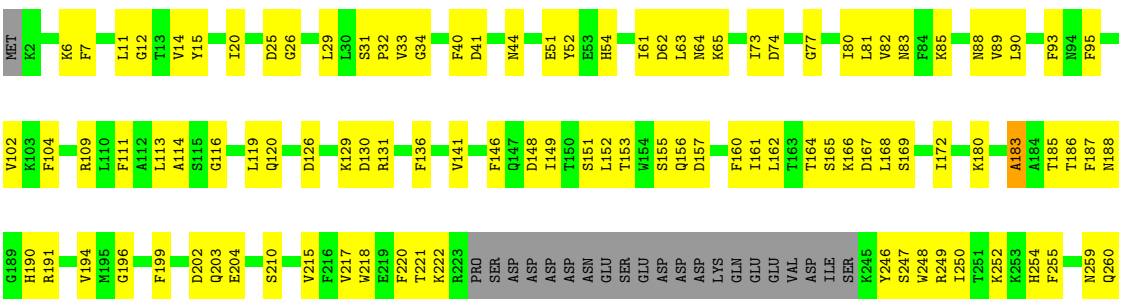
• Molecule 3: RNA cytidine acetyltransferase

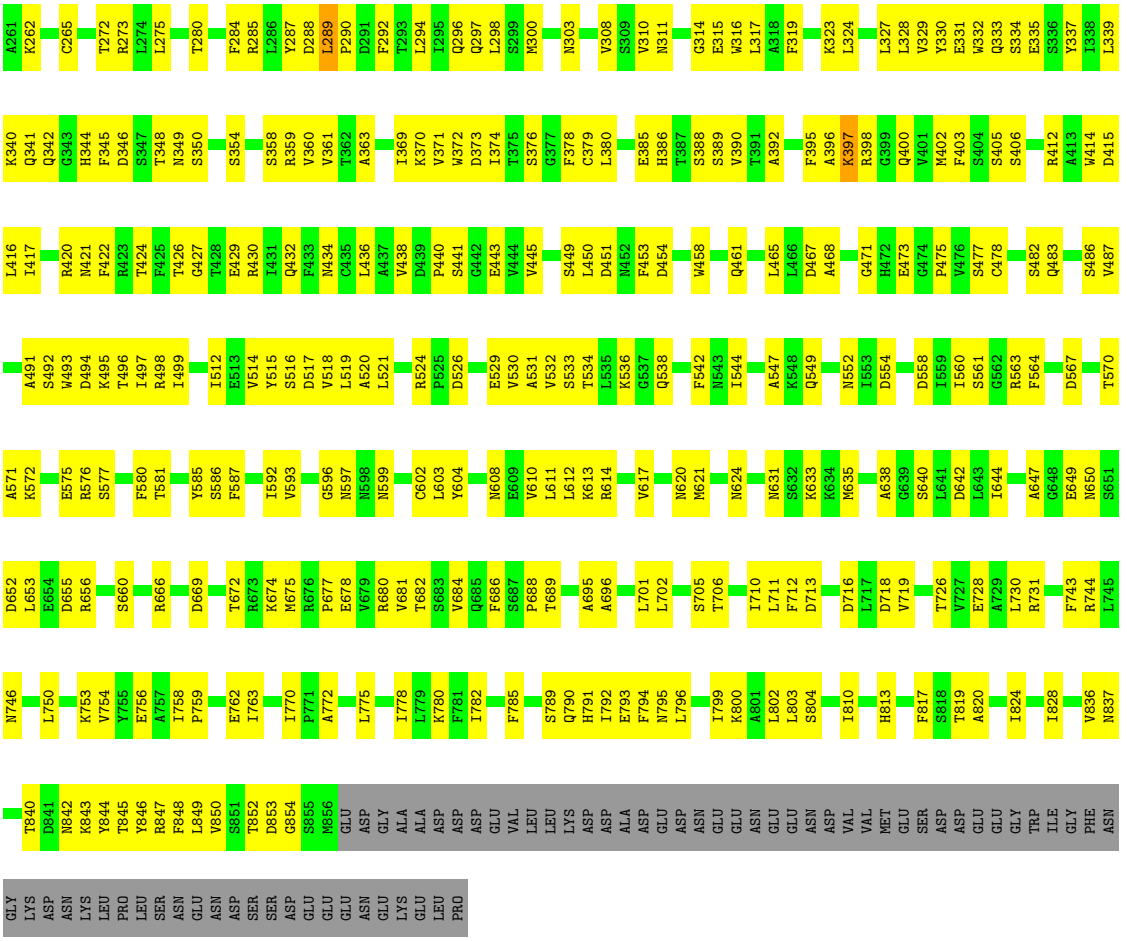
Chain JB:



• Molecule 4: Periodic tryptophan protein 2

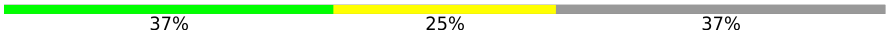
Chain UA:

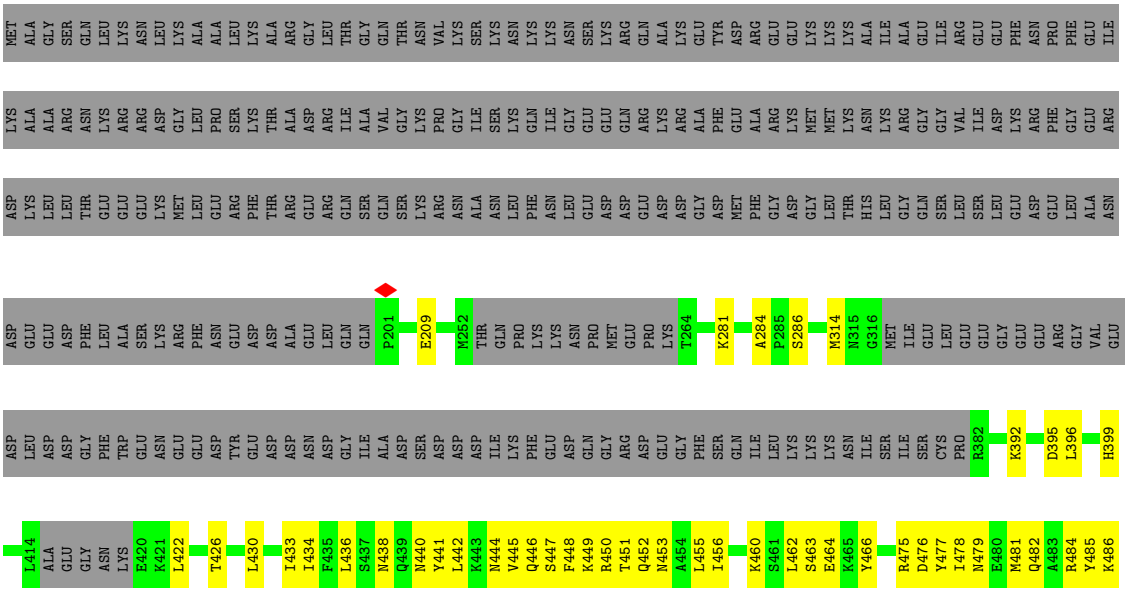


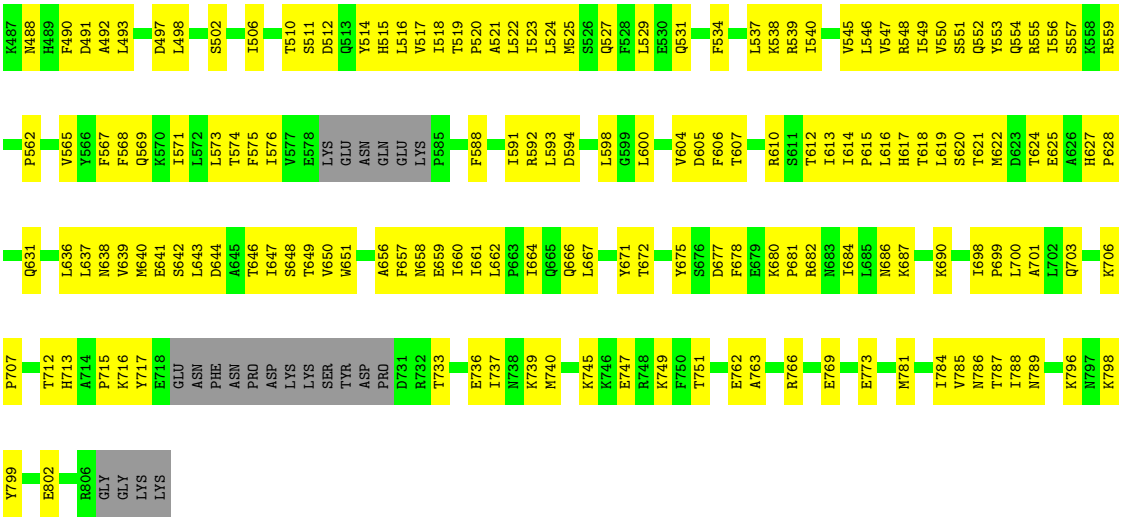


• Molecule 5: Nucleolar complex protein 14

Chain UB:

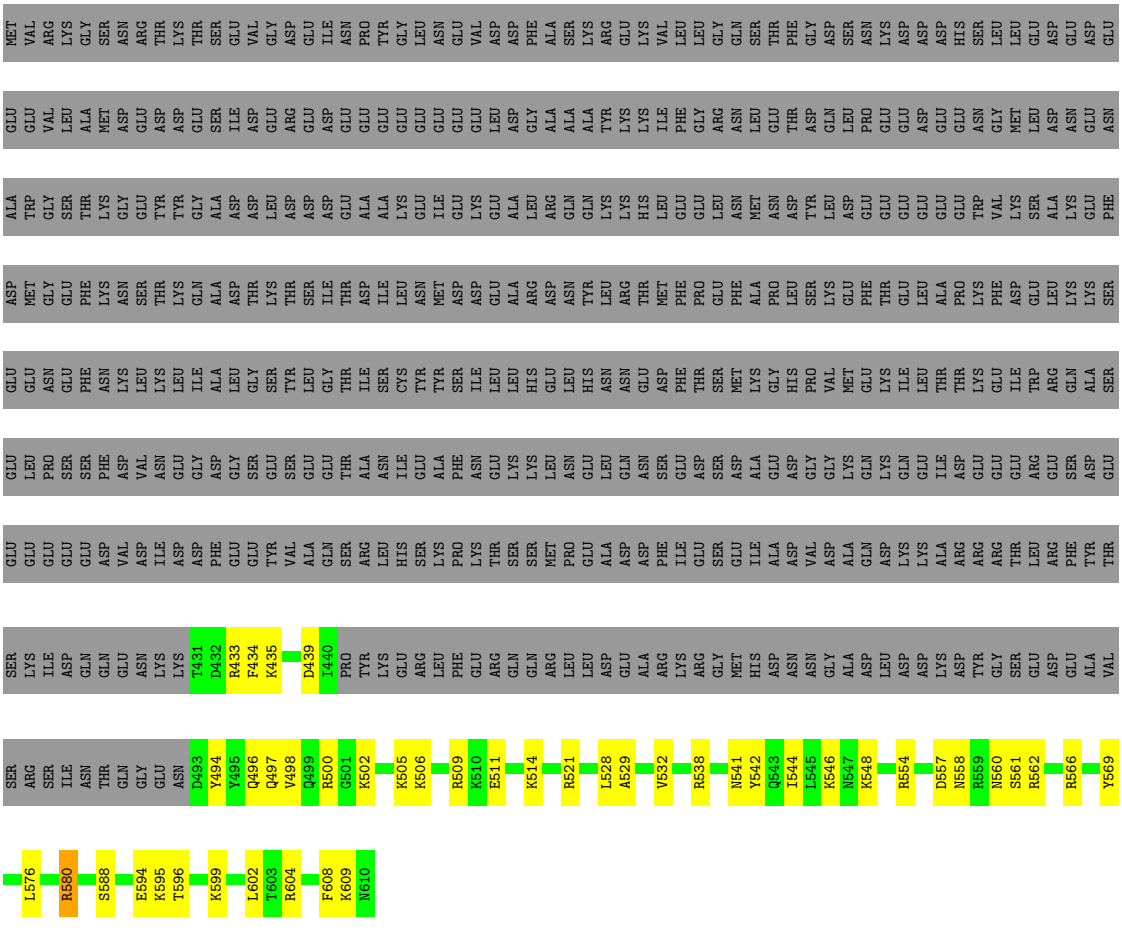






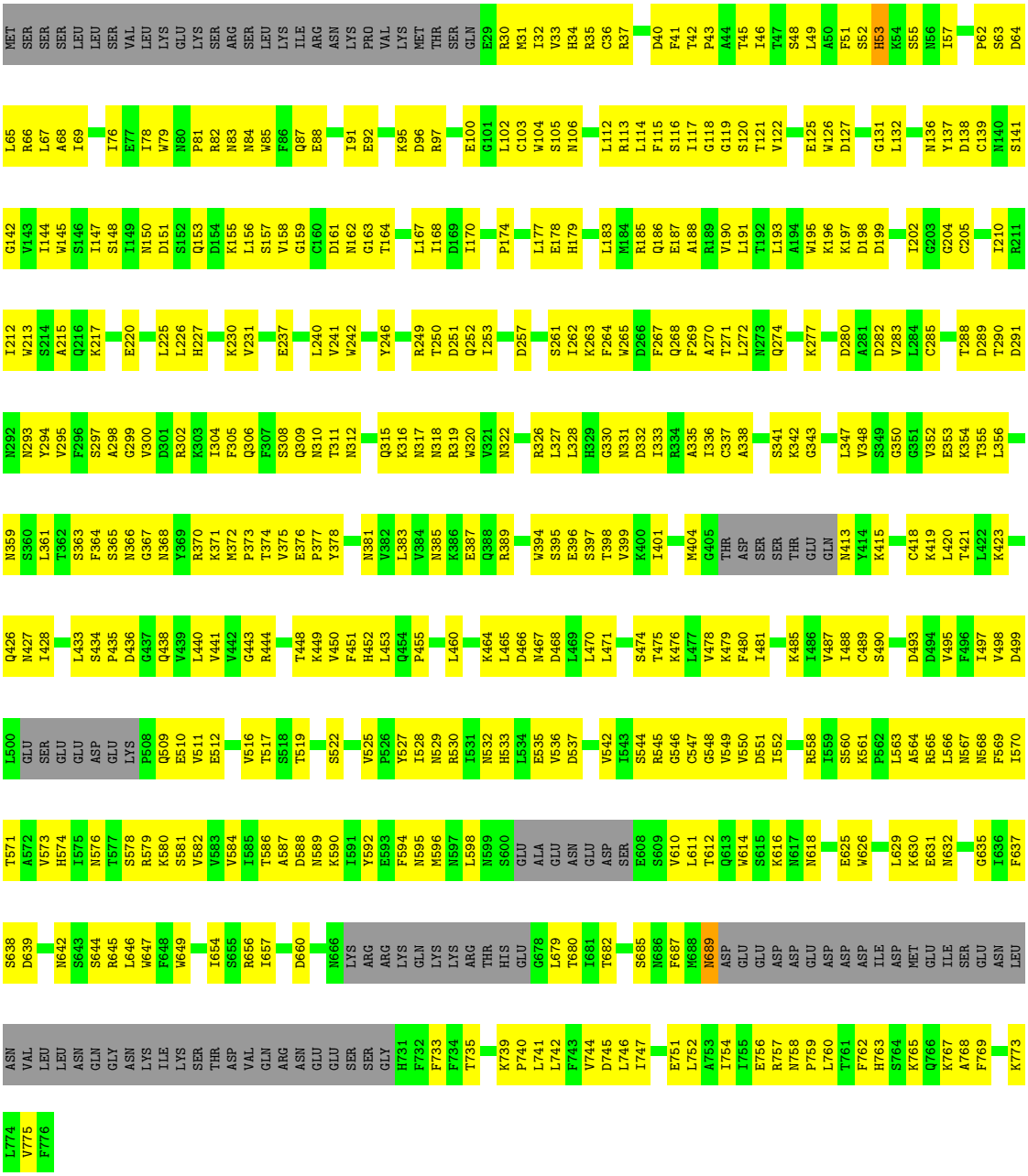
• Molecule 6: Something about silencing protein 10

Chain UC: 14% 7% 79%



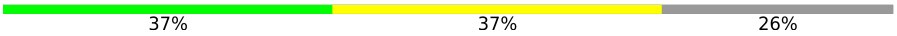
• Molecule 7: U3 small nucleolar RNA-associated protein 4

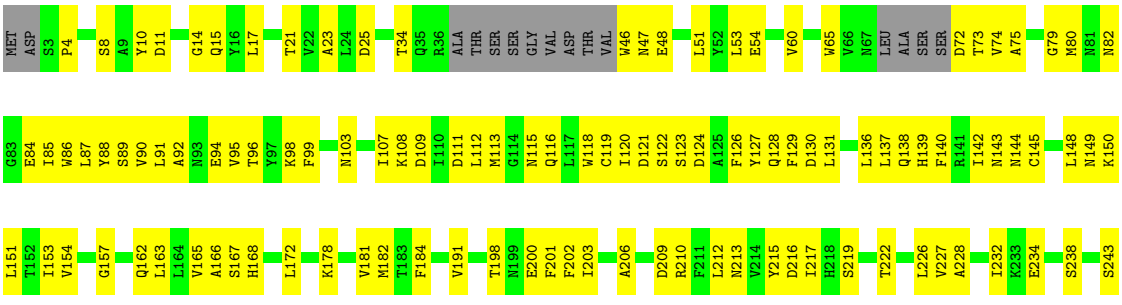
Chain UD: 36% 51% 13%

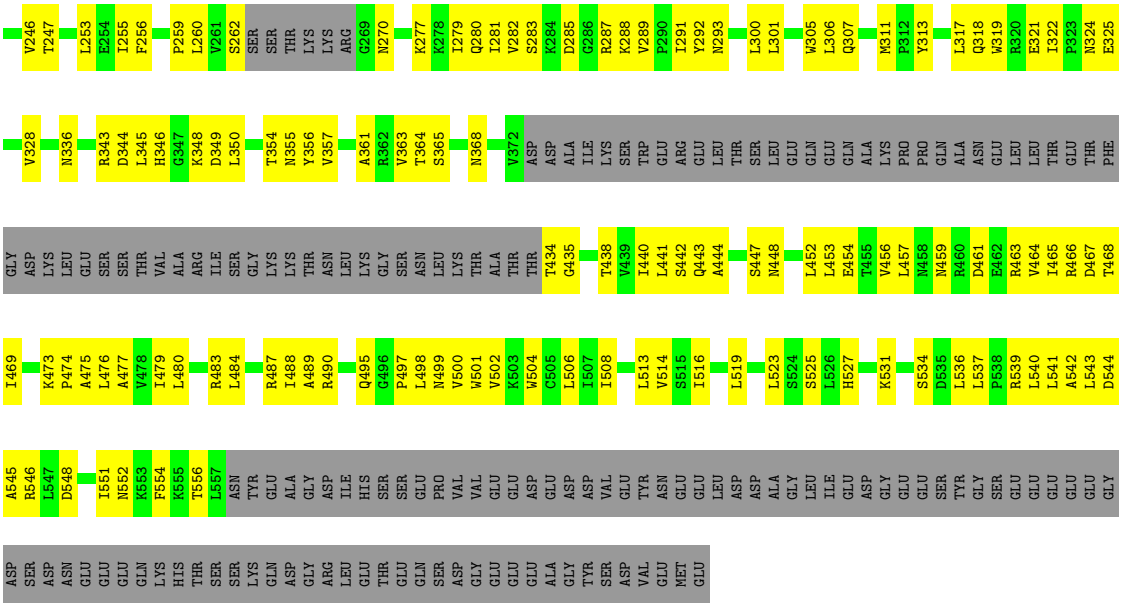


• Molecule 8: U3 small nucleolar RNA-associated protein 5

Chain UE:

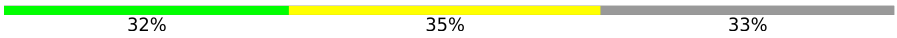


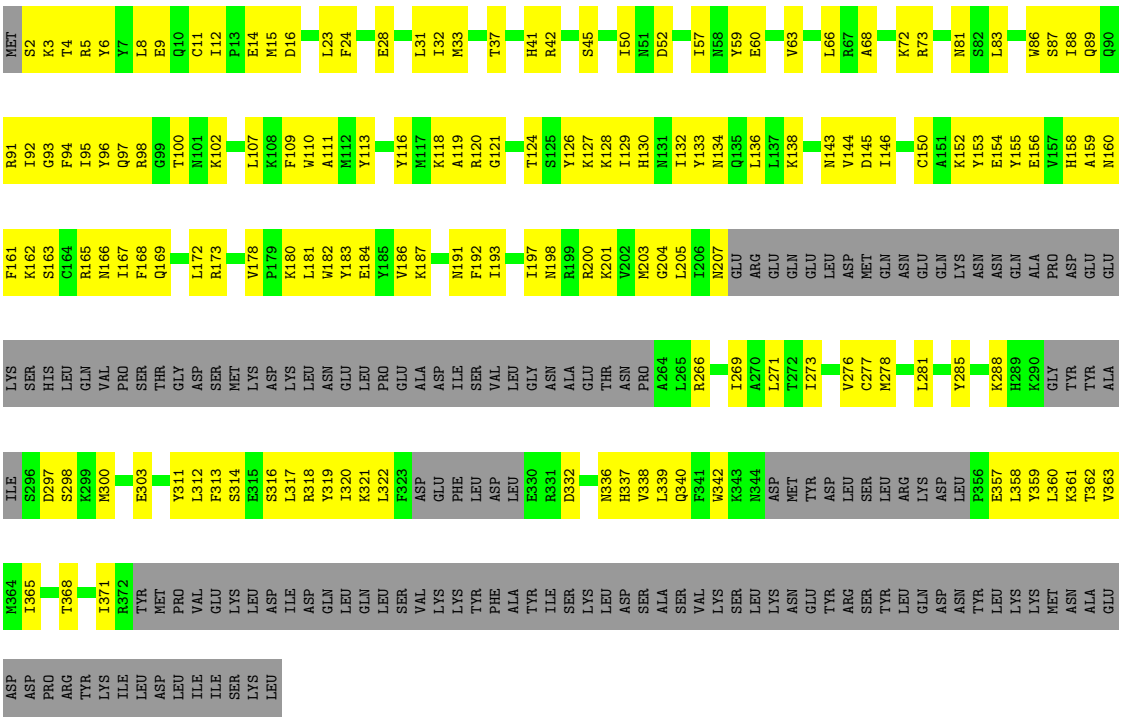




• Molecule 9: U3 small nucleolar RNA-associated protein 6

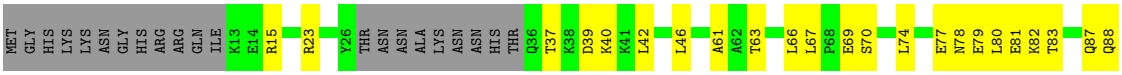
Chain UF:

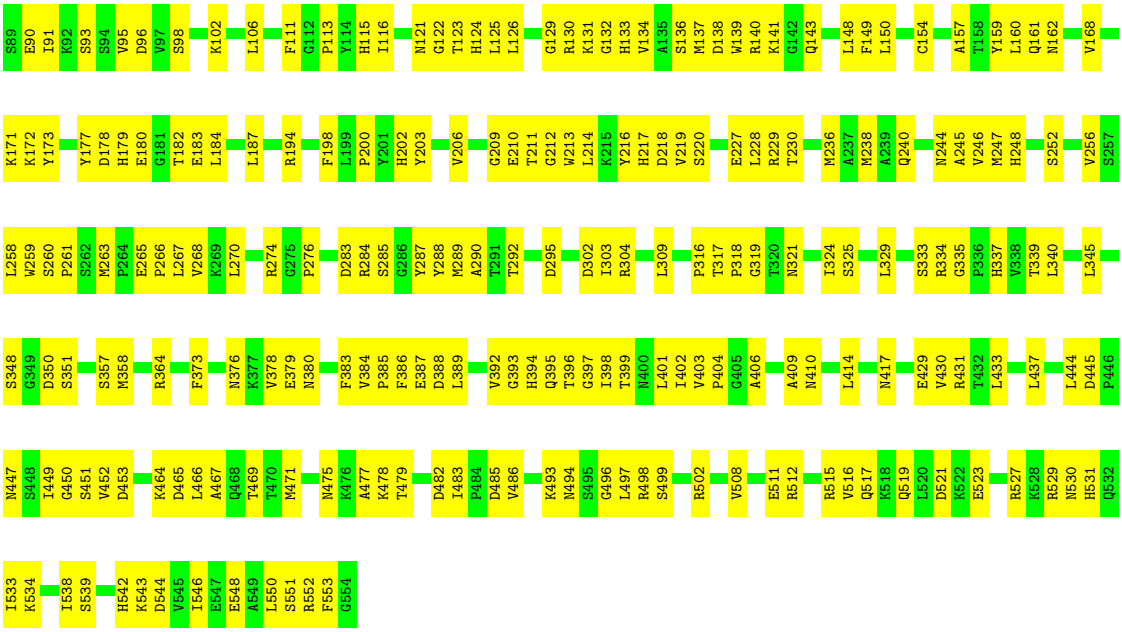




• Molecule 10: U3 small nucleolar RNA-associated protein 7

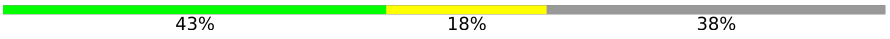
Chain UG:

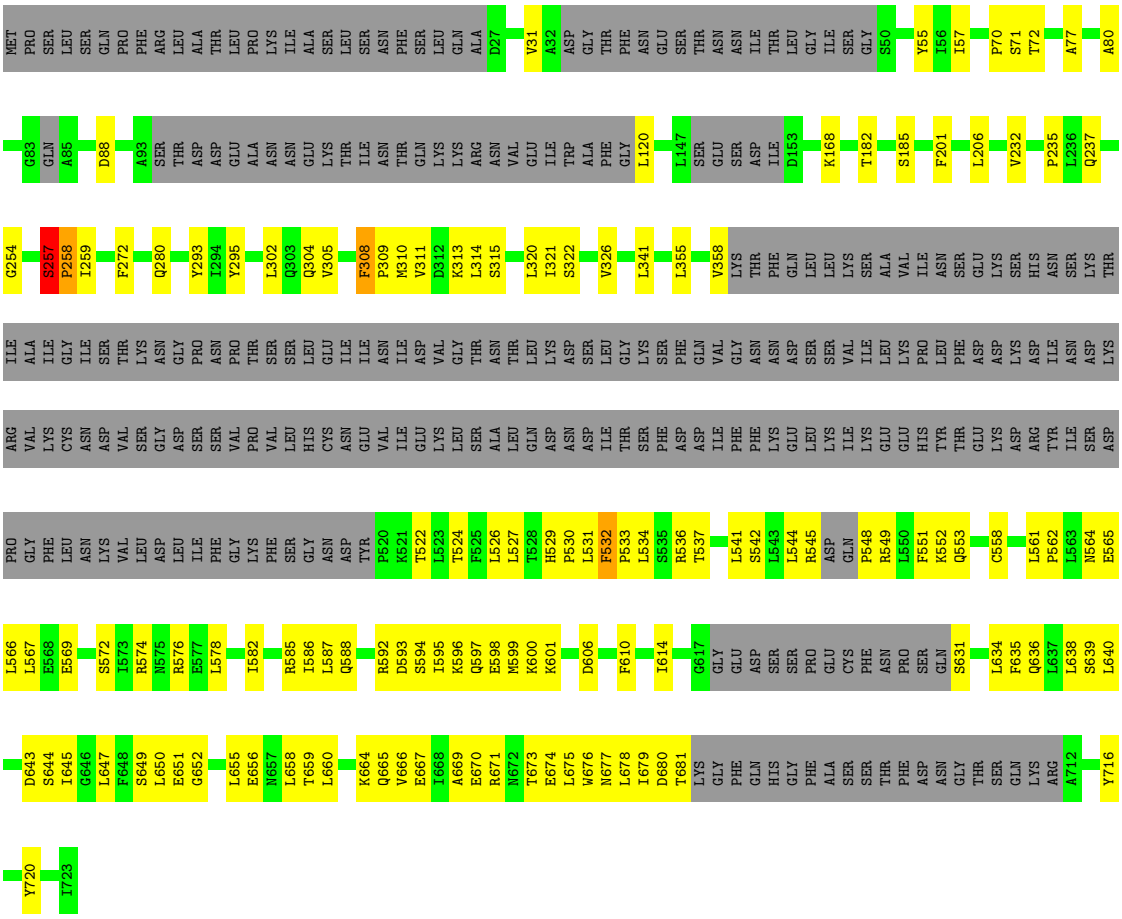




• Molecule 11: U3 small nucleolar RNA-associated protein 8

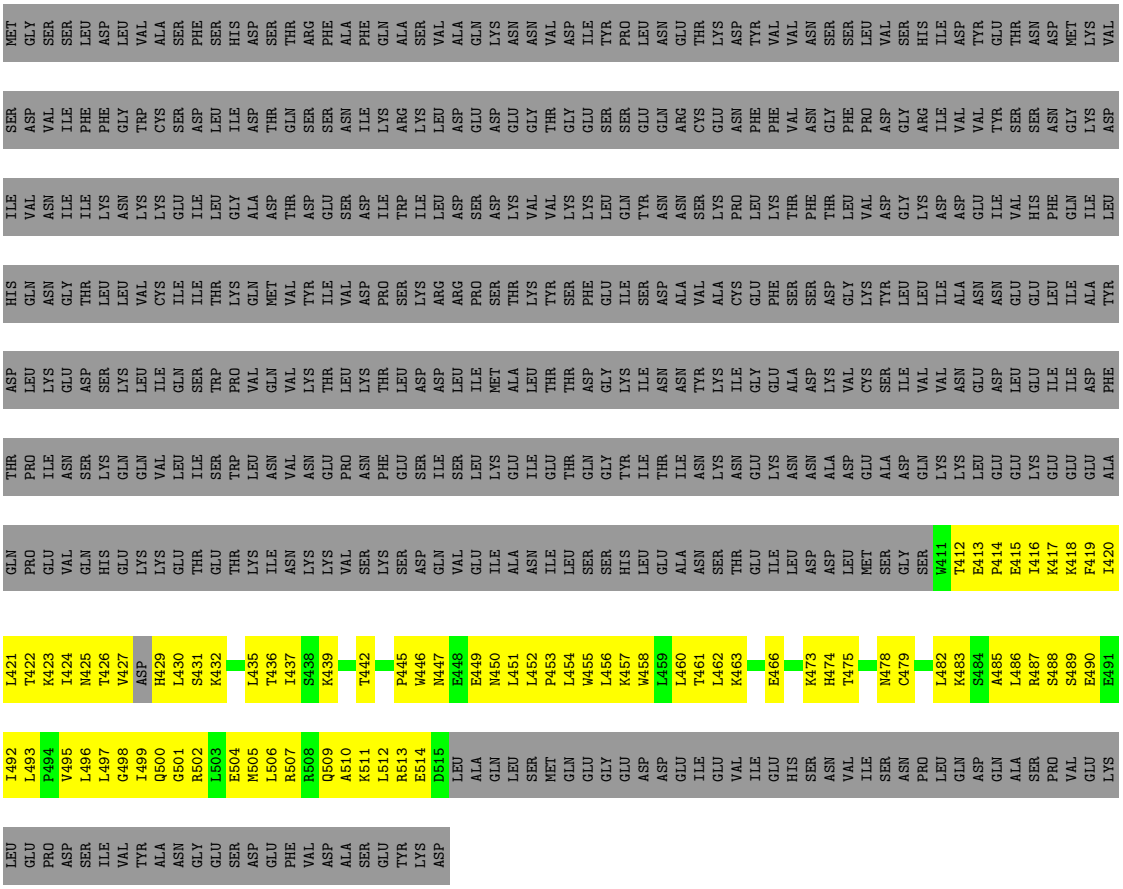
Chain UH:





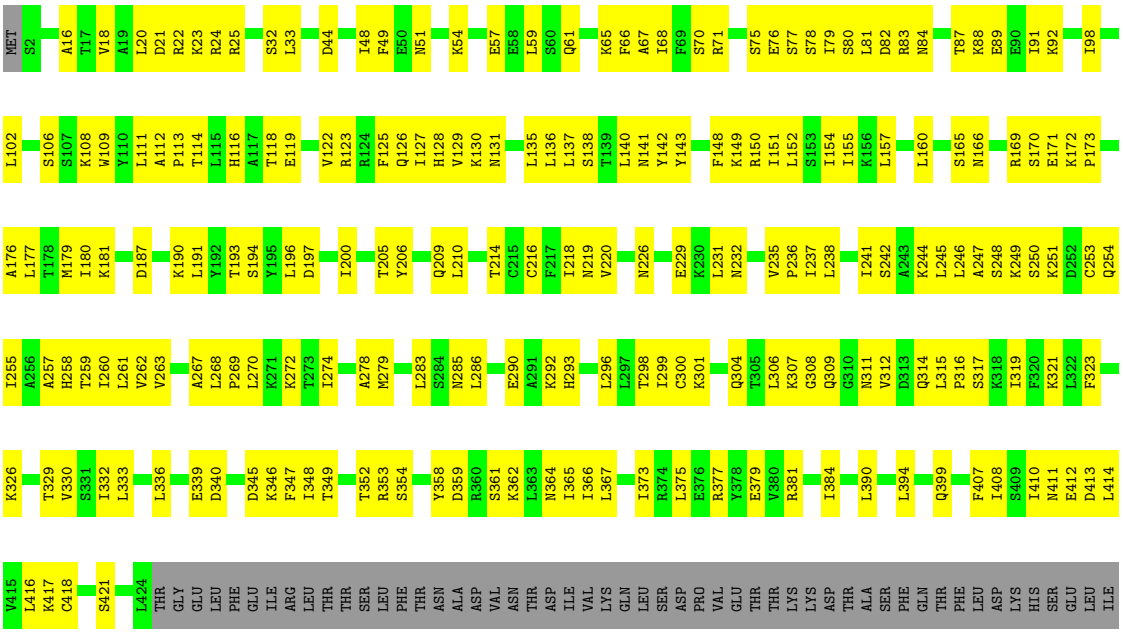
• Molecule 12: U3 small nucleolar RNA-associated protein 9

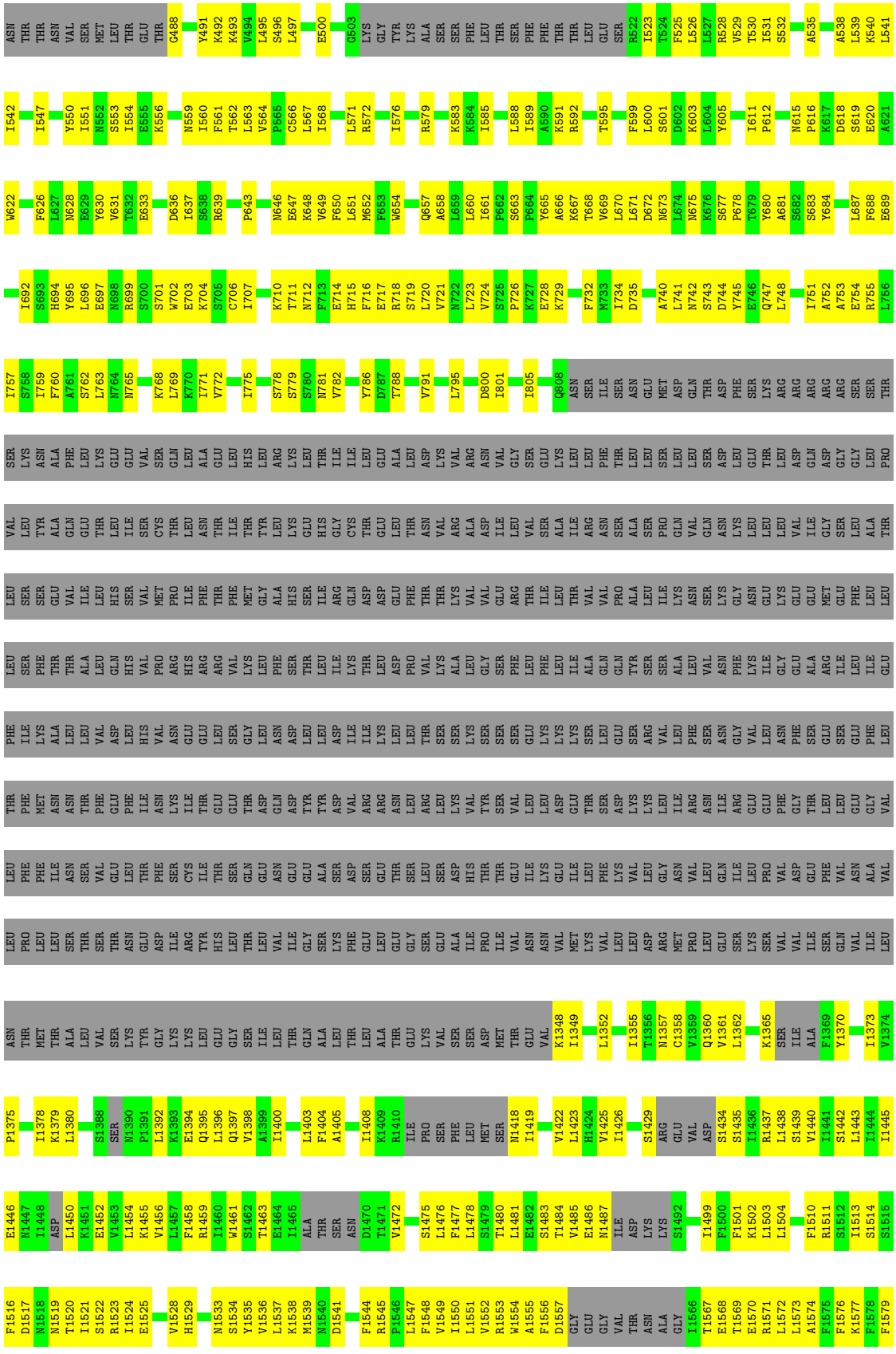
Chain UI: 5% 13% 82%



• Molecule 13: U3 small nucleolar RNA-associated protein 10

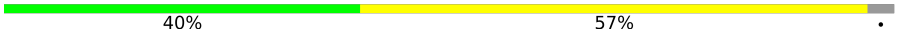
Chain UJ: 29% 34% 37%

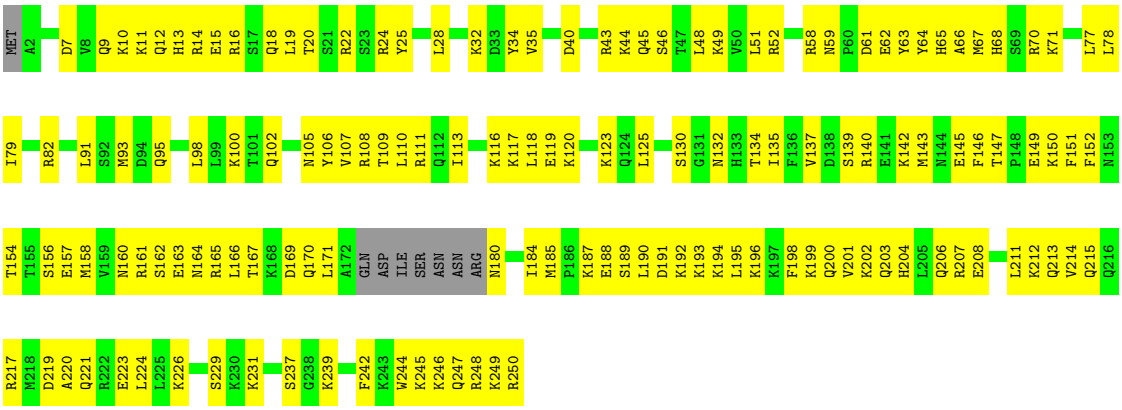




• Molecule 14: U3 small nucleolar RNA-associated protein 11

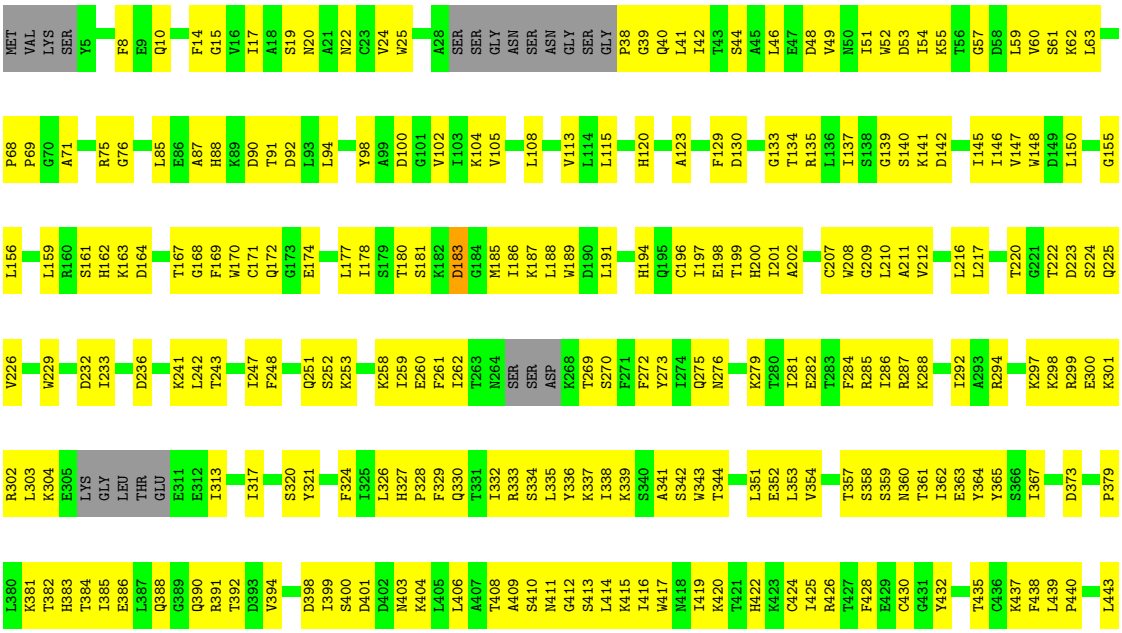
Chain UK:

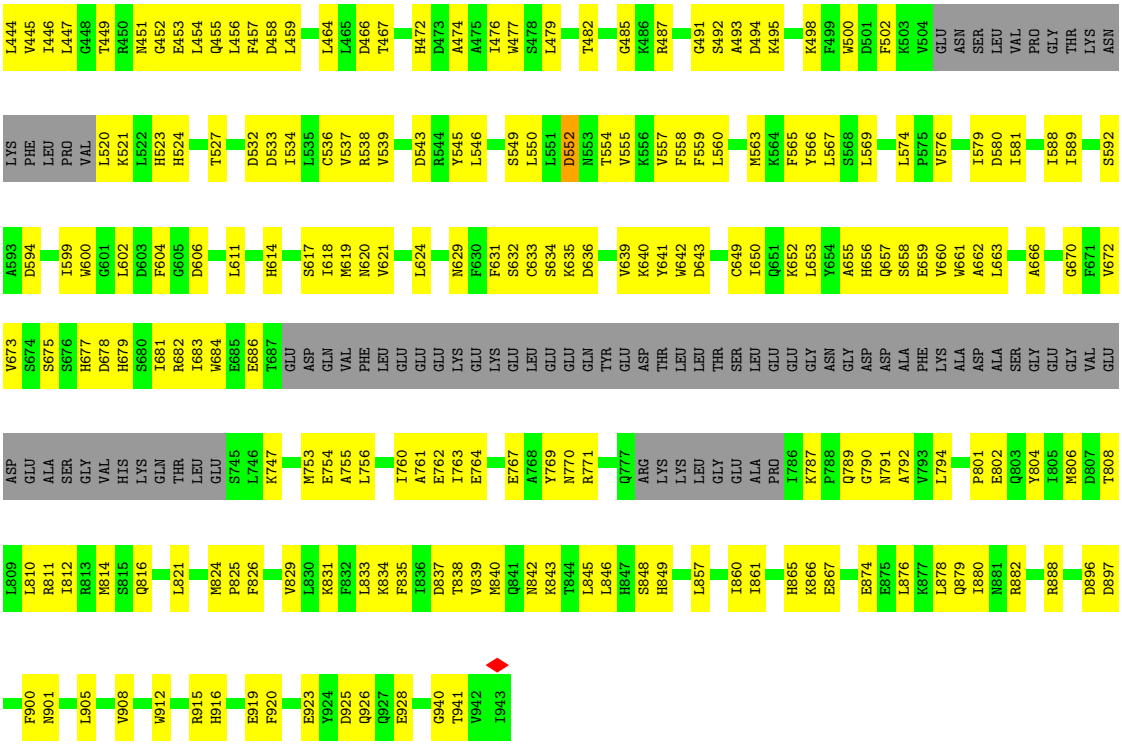




• Molecule 15: U3 small nucleolar RNA-associated protein 12

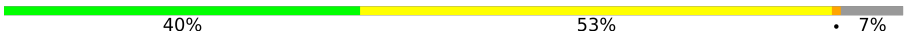
Chain UL:

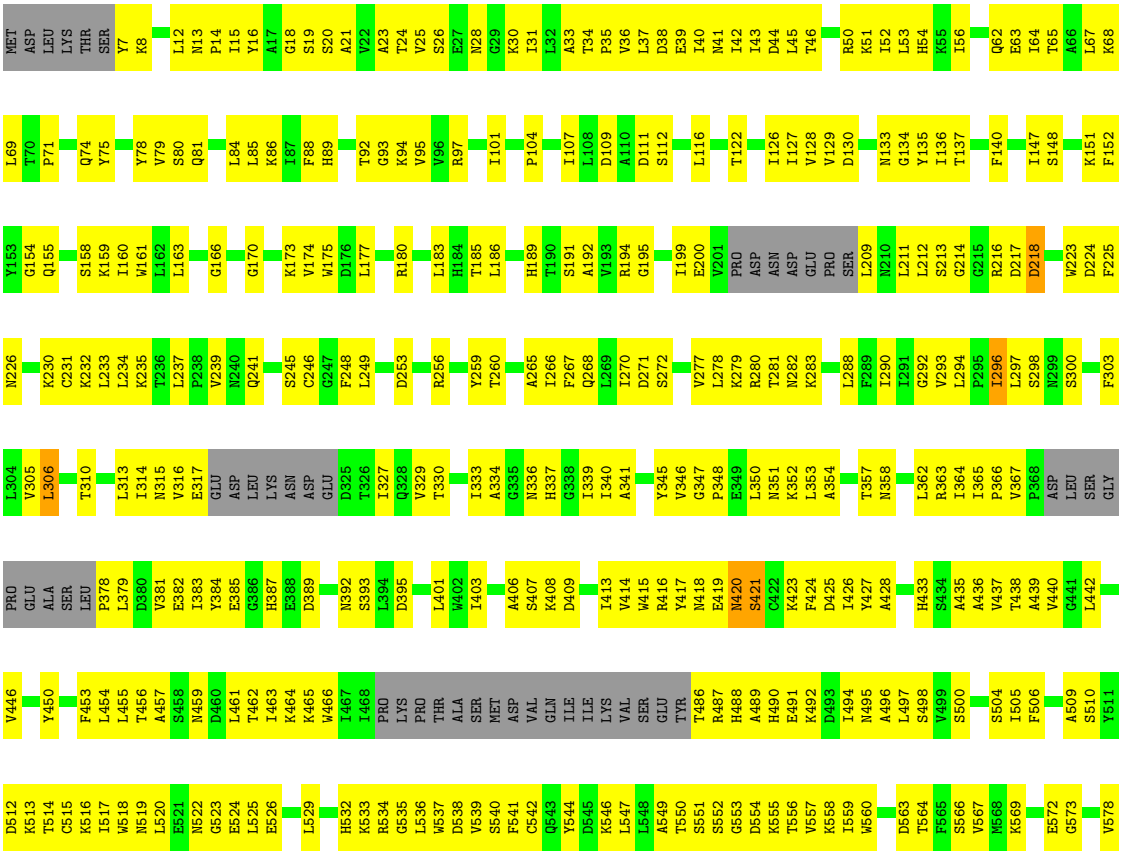




• Molecule 16: U3 small nucleolar RNA-associated protein 13

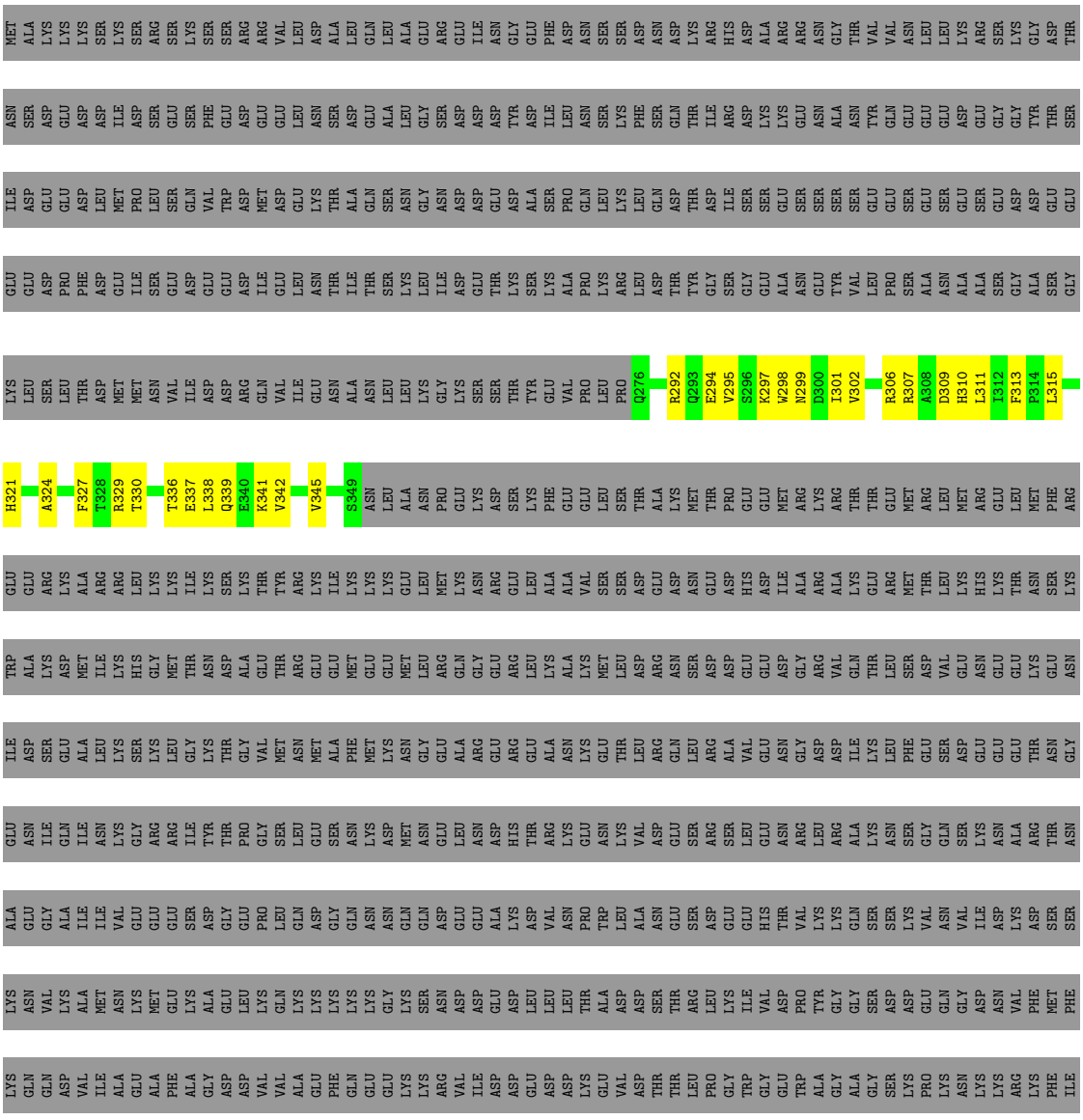
Chain UM:

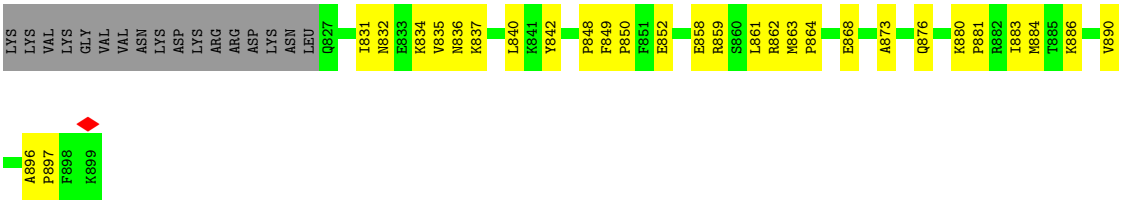




• Molecule 17: U3 small nucleolar RNA-associated protein 14

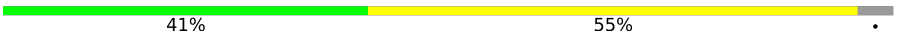
Chain UN: 10% 6% 84%

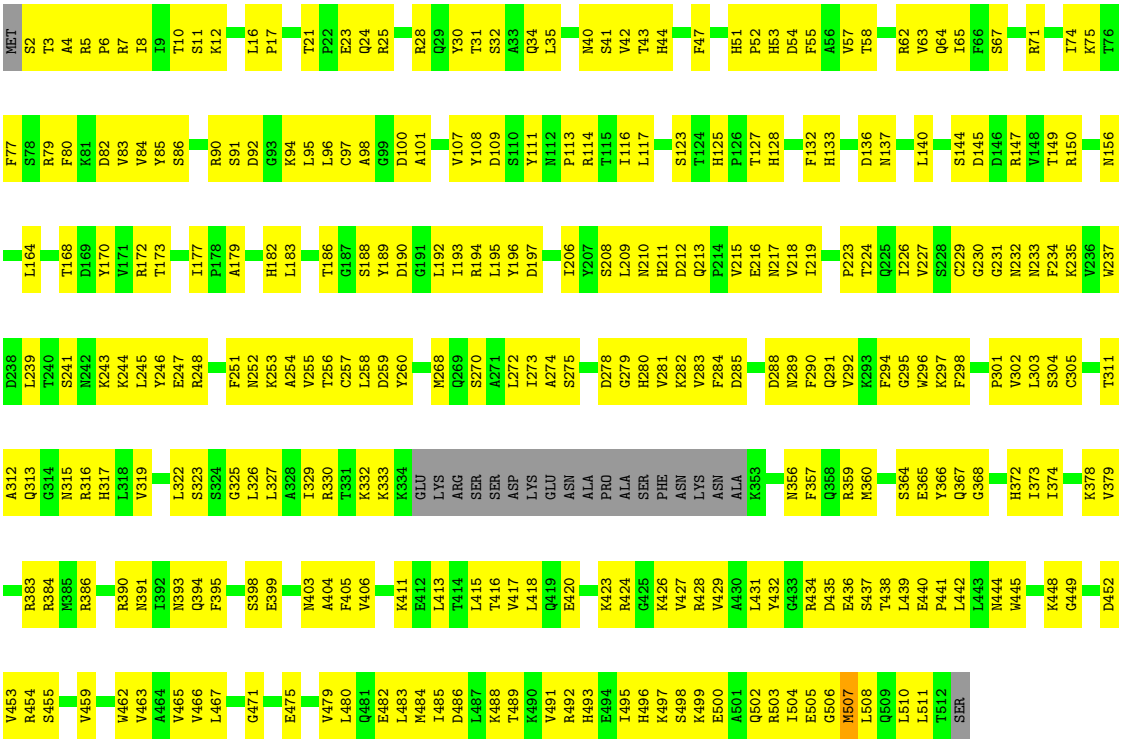




• Molecule 18: U3 small nucleolar RNA-associated protein 15

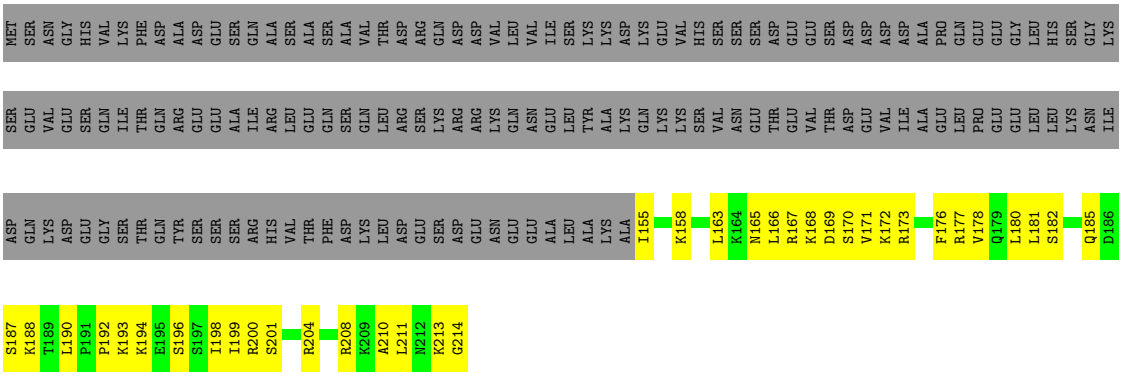
Chain UO:





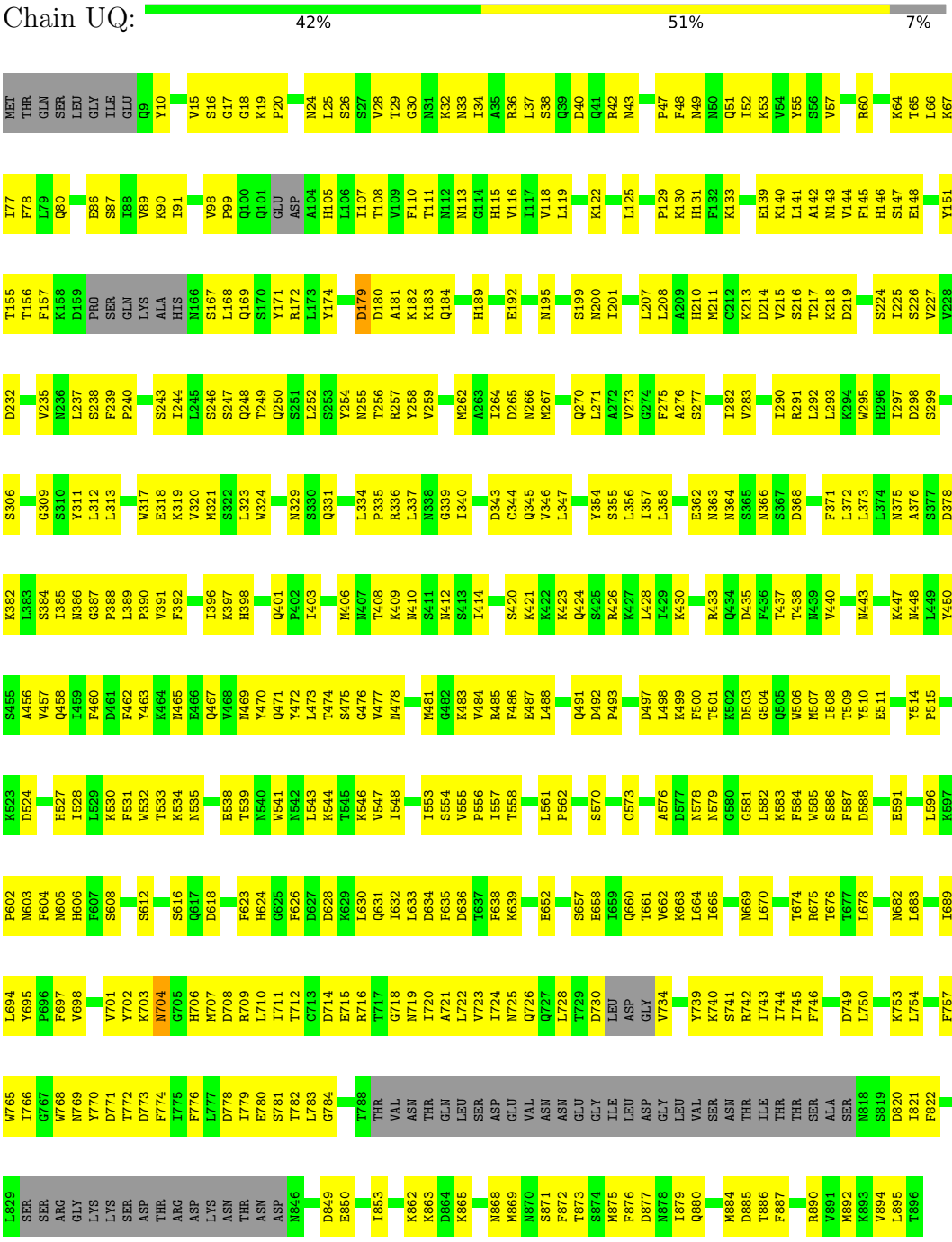
• Molecule 19: Bud site selection protein 21

Chain UP:



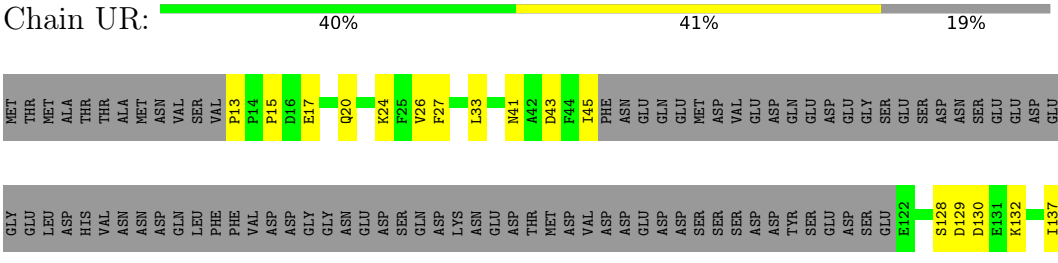
• Molecule 20: NET1-associated nuclear protein 1

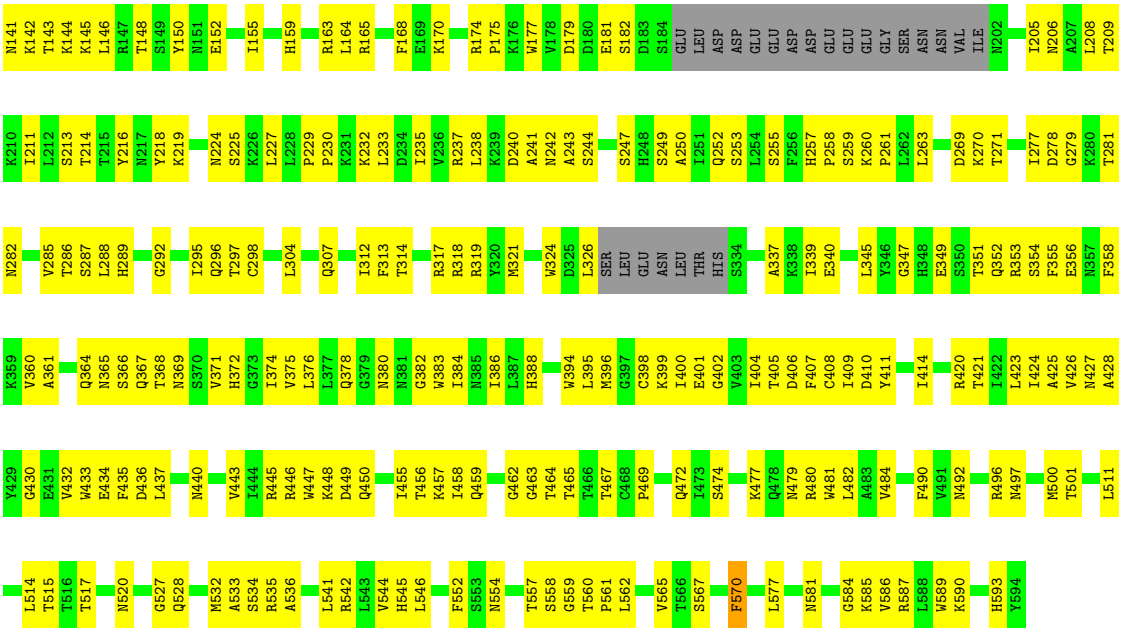
Chain UQ:



• Molecule 21: U3 small nucleolar RNA-associated protein 18

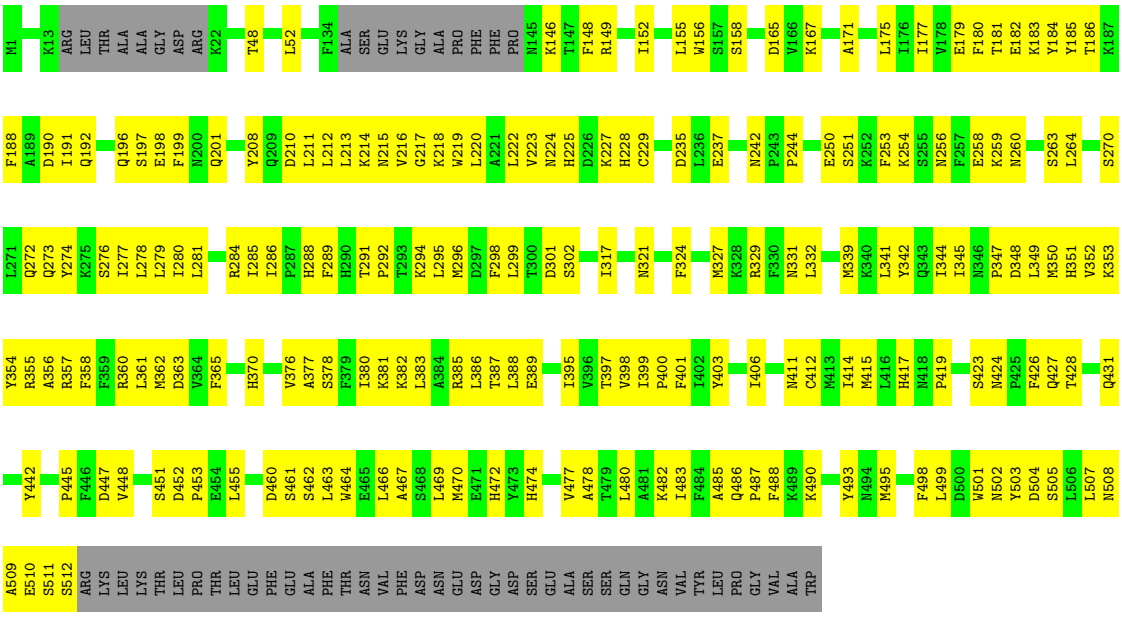
Chain UR:





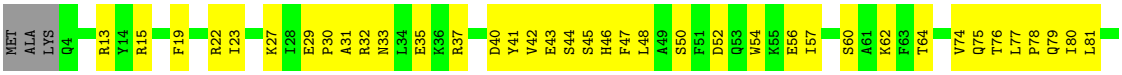
• Molecule 22: Nucleolar complex protein 4

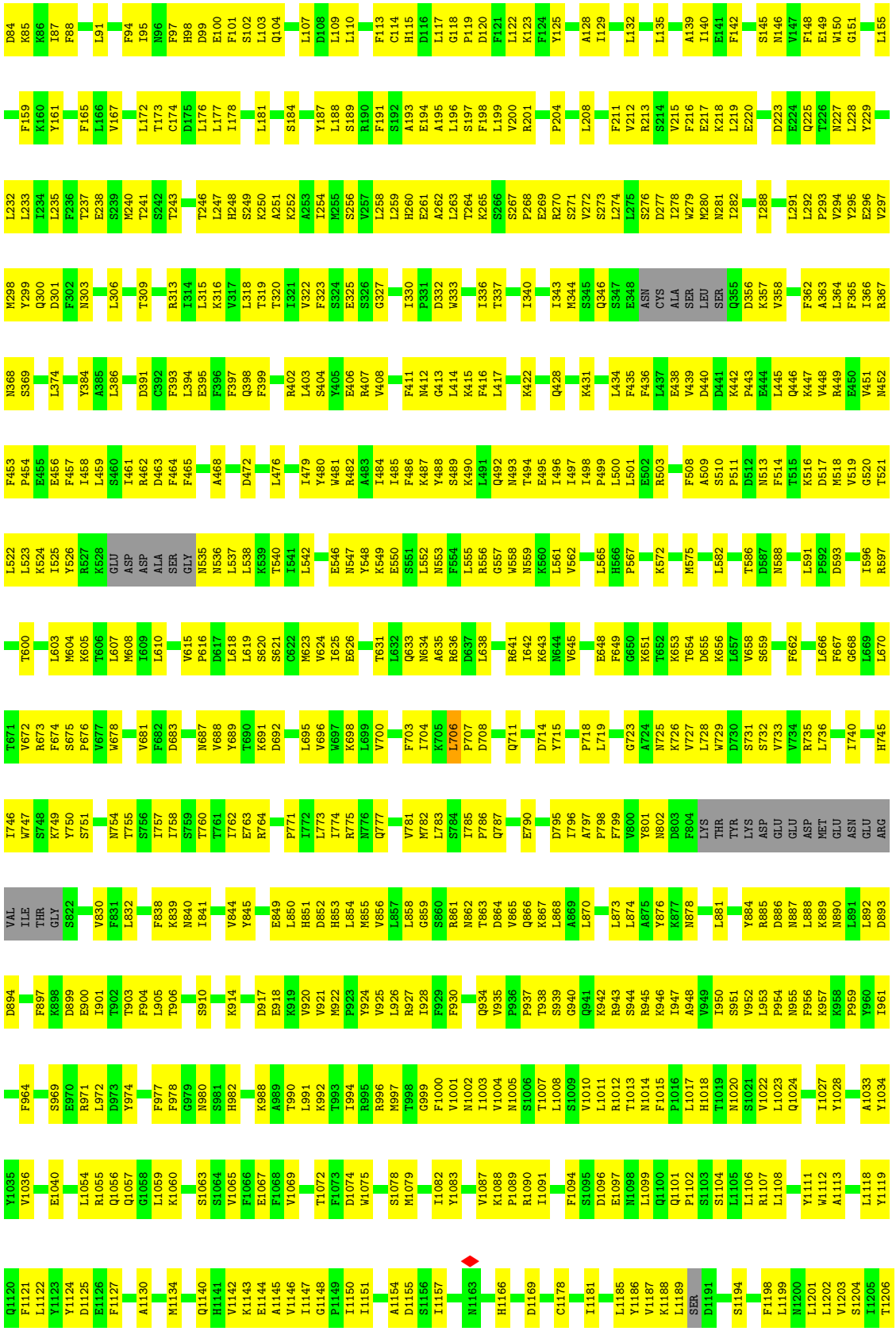
Chain US:

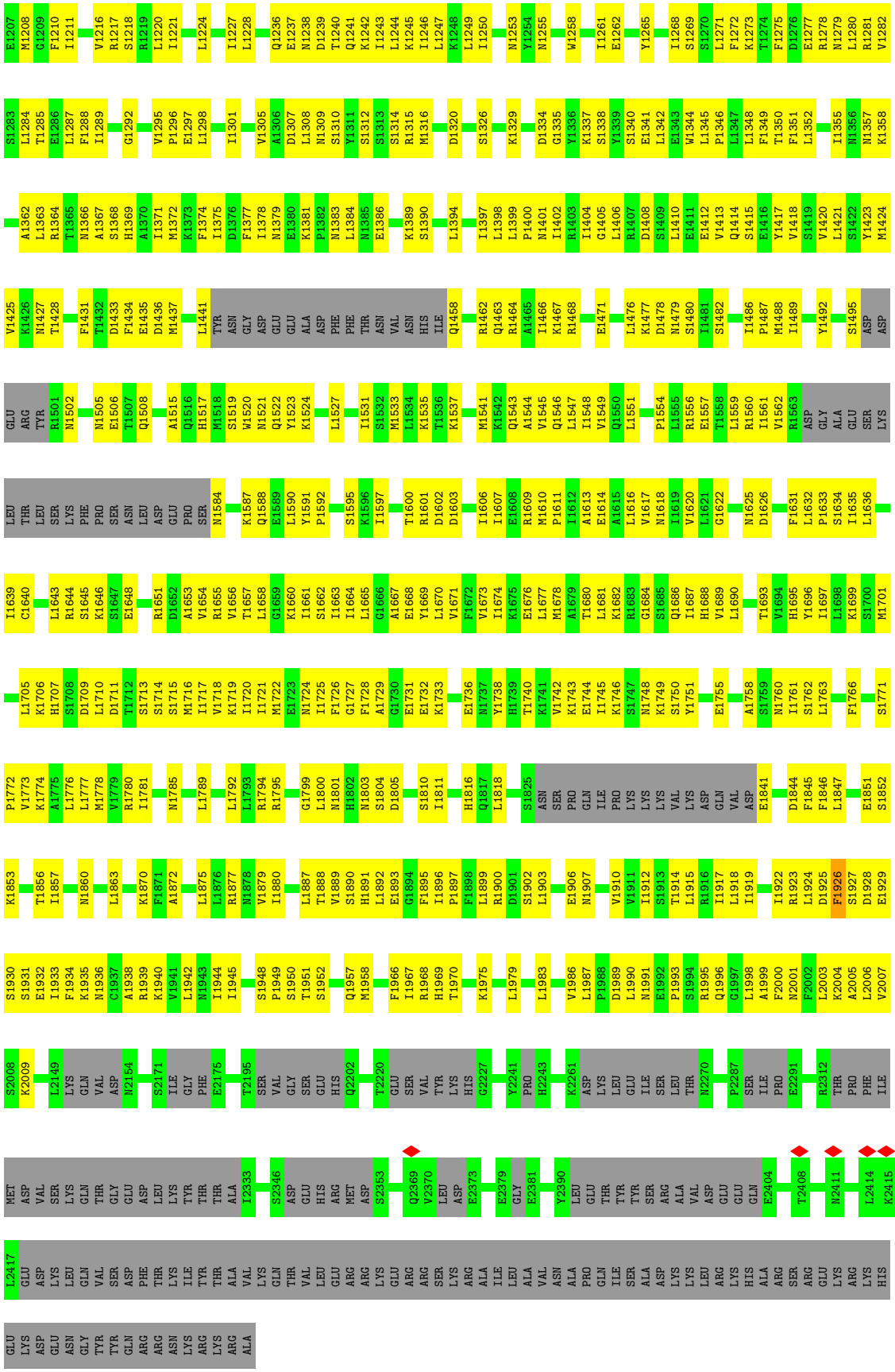


• Molecule 23: U3 small nucleolar RNA-associated protein 20

Chain UT:

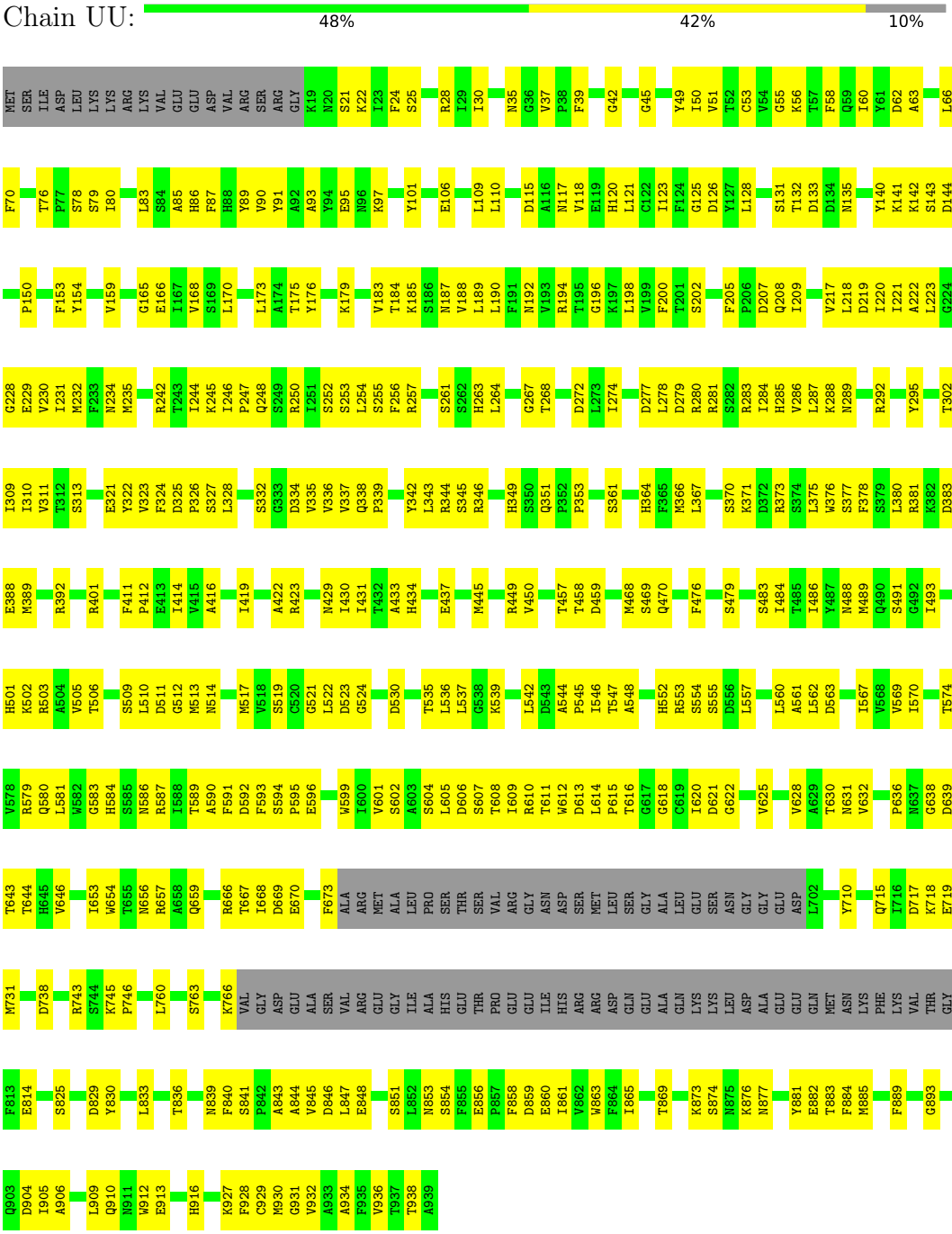






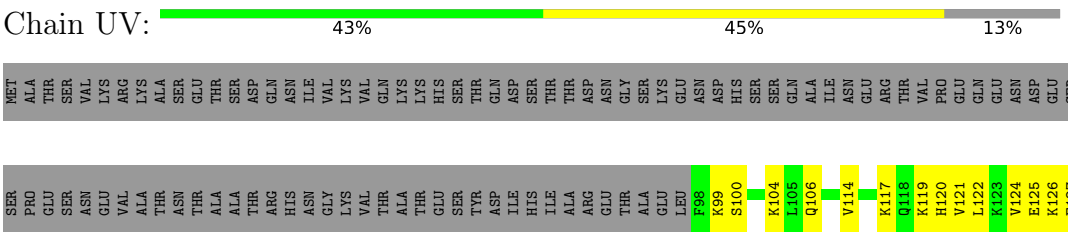
• Molecule 24: U3 small nucleolar RNA-associated protein 21

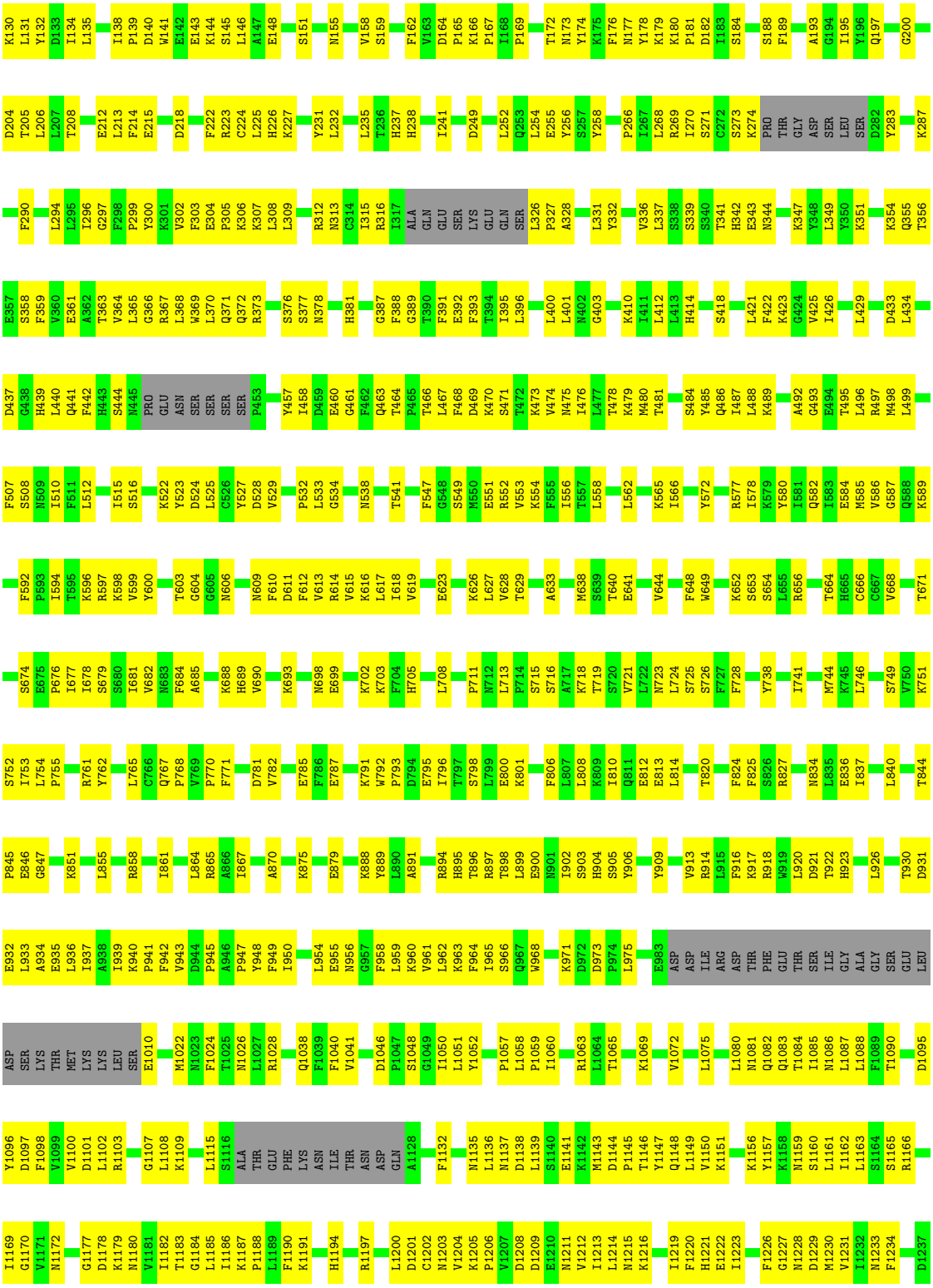
Chain UU:



• Molecule 25: U3 small nucleolar RNA-associated protein 22

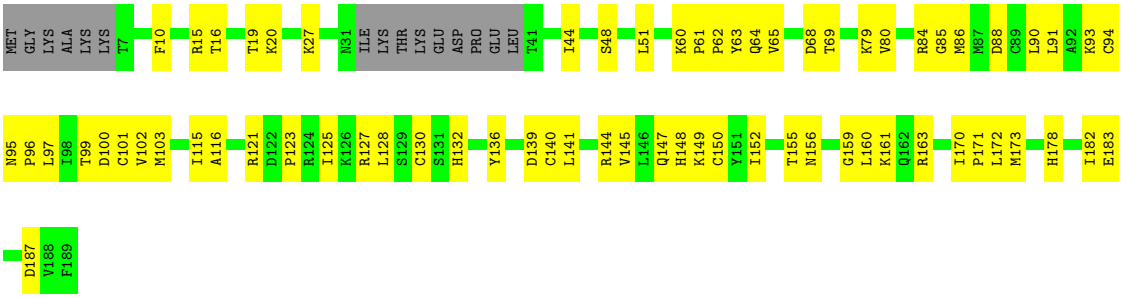
Chain UV:





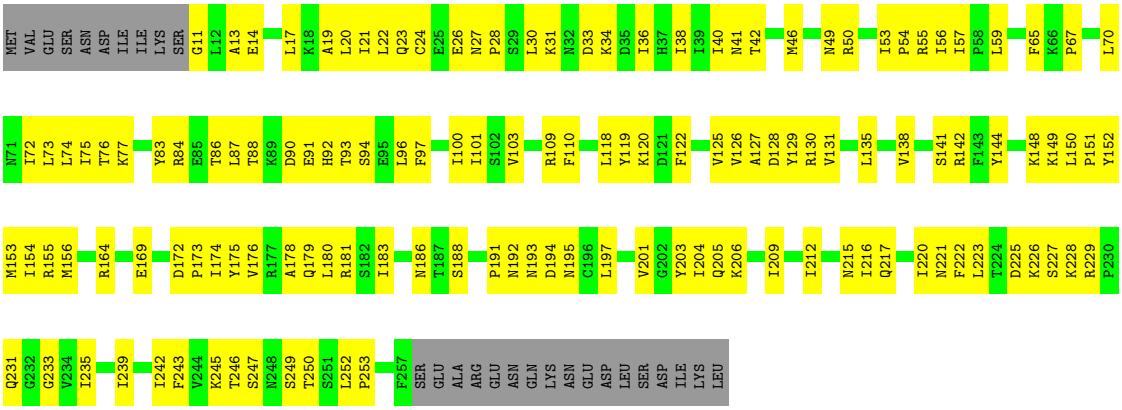
• Molecule 26: rRNA-processing protein FCF1

Chain UX:



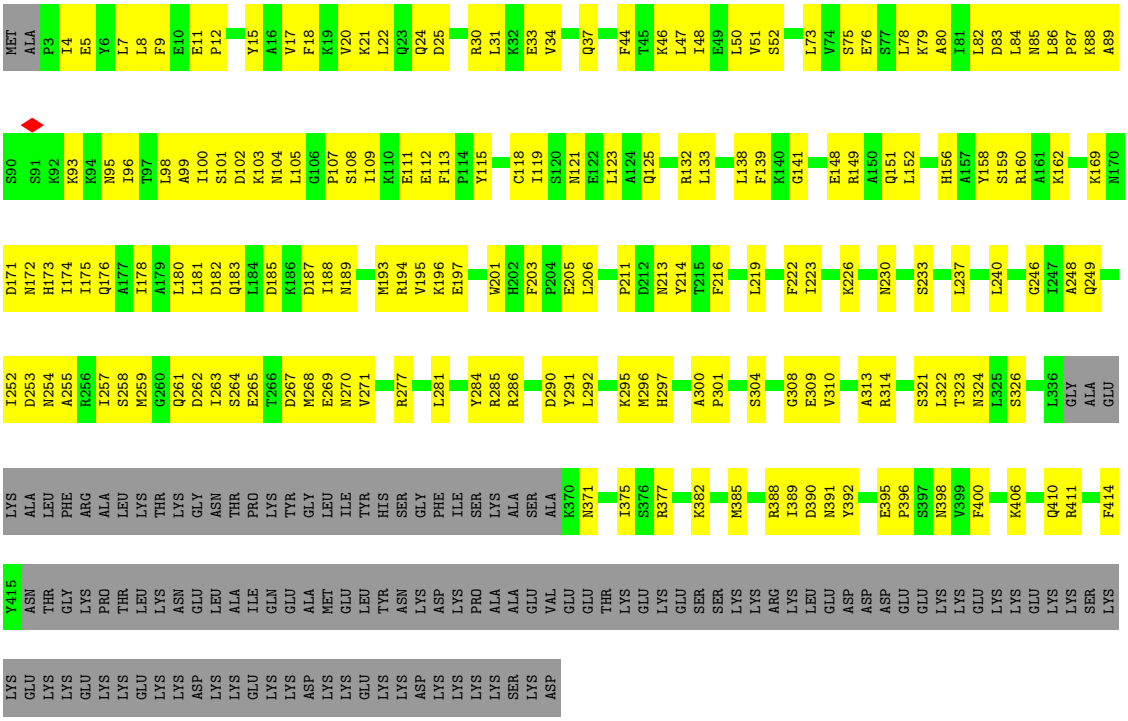
• Molecule 27: Ribosome biogenesis protein UTP30

Chain UZ:



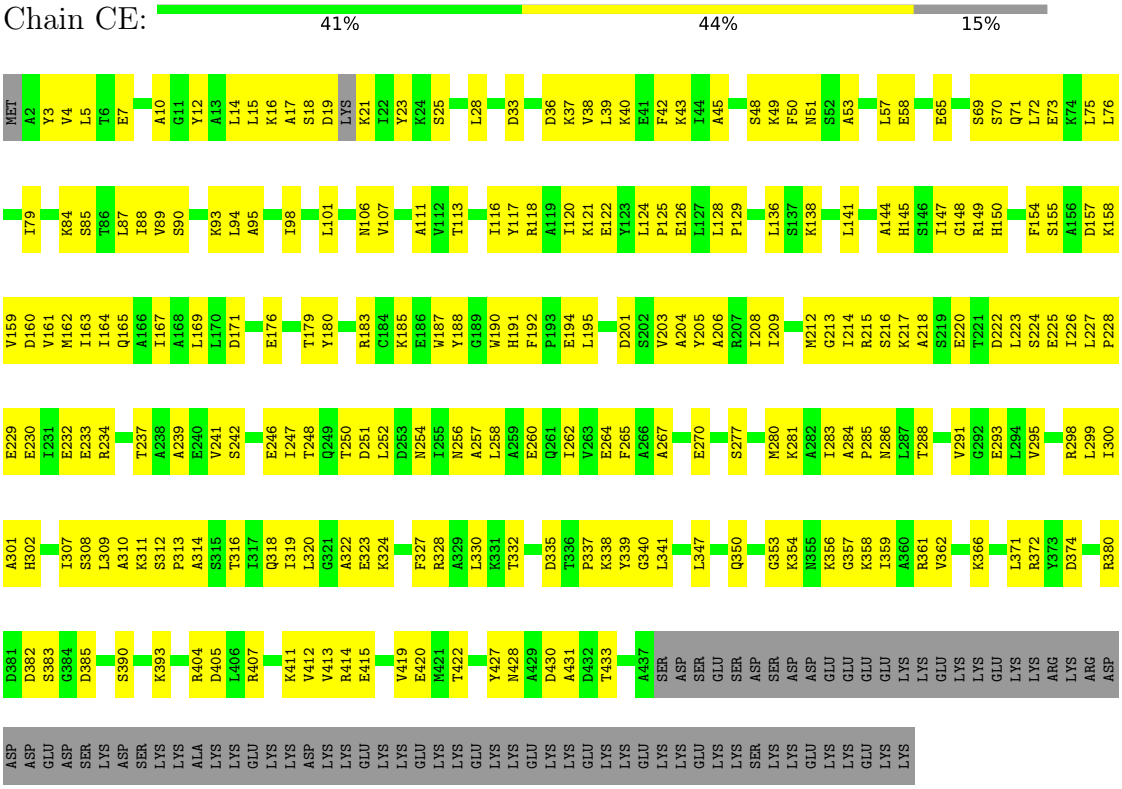
• Molecule 28: Nucleolar protein 56

Chain CD:



• Molecule 29: Nucleolar protein 58

Chain CE:


41%
44%
15%
MET A2 Y3 V4 L5 T6 E7 A10 G11 Y12 A13 L14 L15 K16 A17 S18 D19 LYS K21 I22 Y23 K24 S25 L28 D33 D36 K37 V38 L39 K40 E41 F42 K43 I44 A45 S48 K49 F50 N51 S52 A53 L57 E58 E65 S69 S70 Q71 L72 E73 K74 L75 L76
I79 K84 S85 T86 L87 I88 V89 S90 K93 L94 A95 I98 L101 N106 V107 A111 V112 T113 I116 Y117 R118 A119 I120 K121 E122 Y123 L124 P125 E126 L127 L128 P129 L136 S137 K138 L141 A144 H145 S146 I147 G148 R149 H150 F154 S155 A156 D157 K158
V159 D160 V161 M162 I163 I164 Q165 A166 I167 A168 L169 L170 D171 E176 T179 Y180 R183 G184 K185 E186 W187 Y188 G189 W190 H191 F192 P193 E194 L195 D201 S202 V203 A204 Y205 A206 R207 I208 I209 M212 G213 I214 R215 S216 K217 A218 S219 E220 T221 D222 L223 S224 E225 T226 L227 P228
E229 E230 T231 E232 E233 R234 T237 A238 A239 E240 V241 S242 E246 I247 T248 Q249 T250 D251 L252 D253 N254 I255 N256 A257 L258 A259 E260 Q261 I262 V263 E264 F265 A266 A267 E270 S277 M280 K281 A282 I283 A284 P285 N286 L287 T288 V291 G292 E293 L294 V295 R298 L299 I300
A301 H302 I307 S308 L309 A310 K311 S312 P313 A314 S315 T316 I317 Q318 I319 L320 G321 A322 E323 K324 F327 R328 A329 L330 K331 T332 D335 T336 P337 K338 Y339 G340 L341 L347 Q350 G353 K354 N355 K356 G357 K358 I359 A360 R361 V362 K366 L371 R372 Y373 D374 R380
D381 D382 S383 G384 D385 S390 K393 R404 D405 L406 R407 K411 V412 V413 R414 E415 V419 E420 K421 T422 Y427 N428 A429 D430 A431 D432 T433 A437 SER ASP SER GLU SER ASP SER ASP ASP GLU GLU GLU GLU LYS LYS GLU LYS LYS GLU LYS LYS GLU LYS ARG LYS ARG ASP
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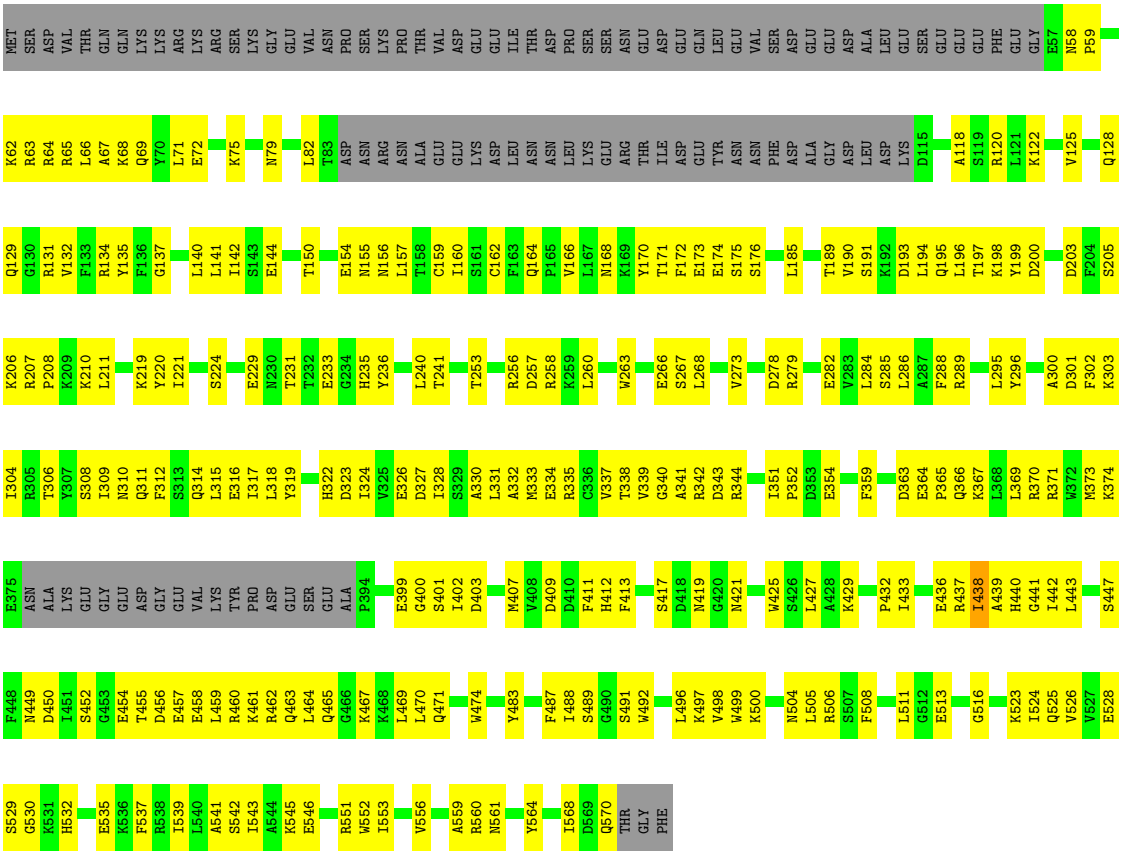
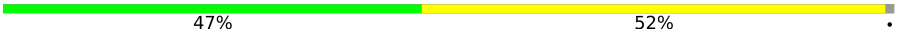
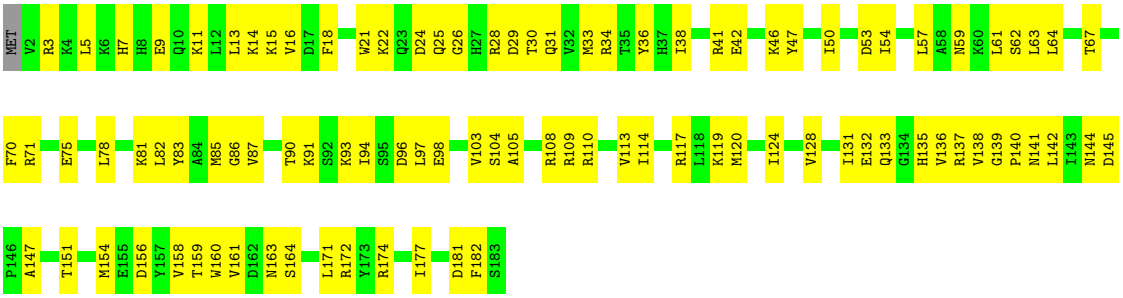


• Molecule 32: U3 small nucleolar ribonucleoprotein protein IMP3

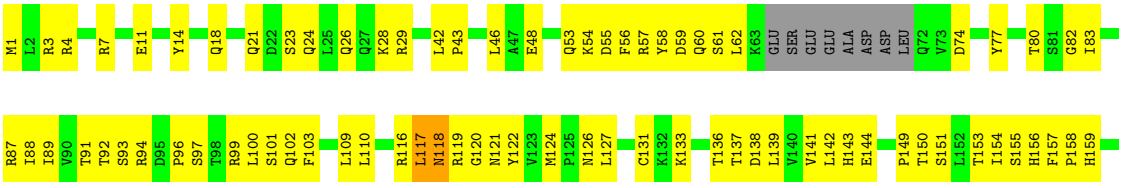
Chain CI:

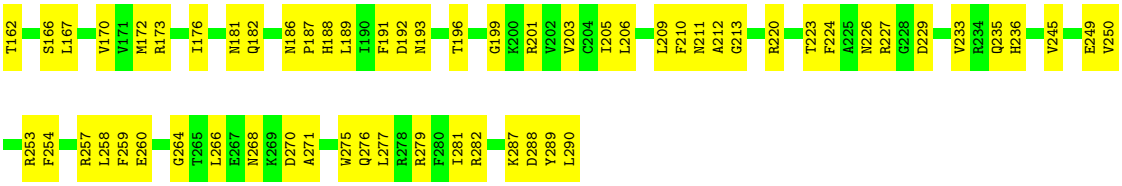




• Molecule 33: U3 small nucleolar ribonucleoprotein protein IMP4

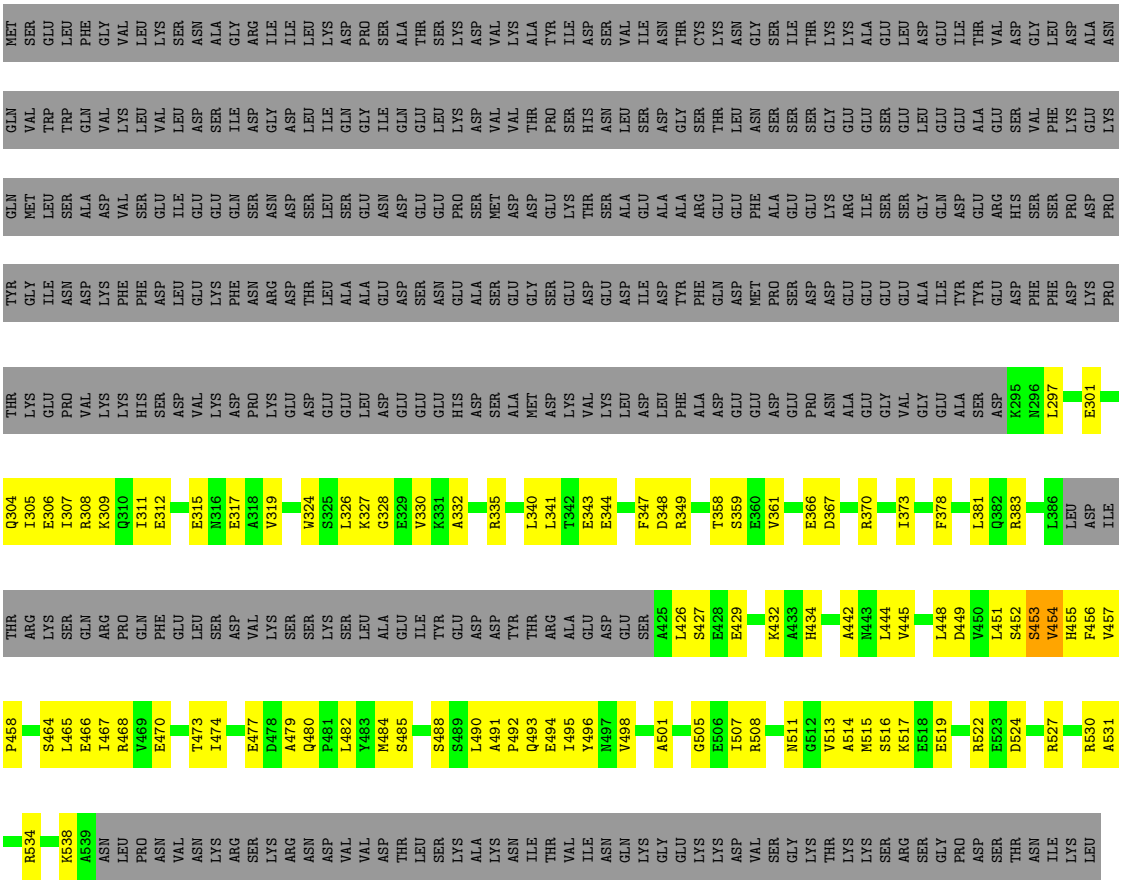
Chain CJ:





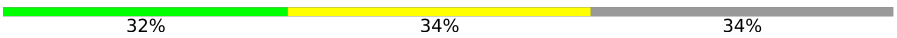
• Molecule 34: U3 small nucleolar RNA-associated protein MPP10

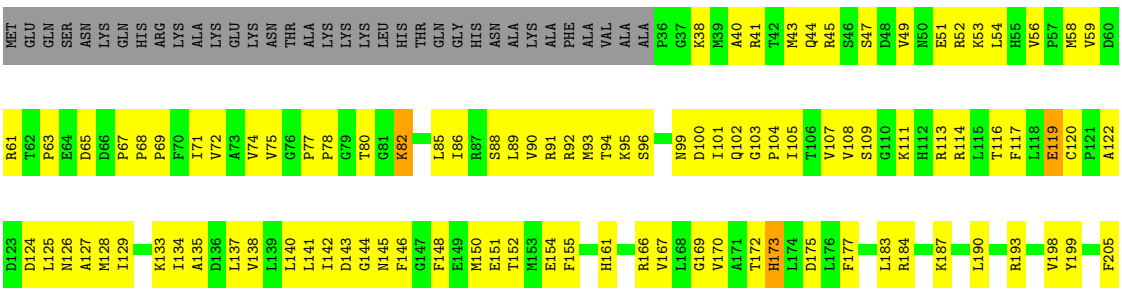
Chain CK:

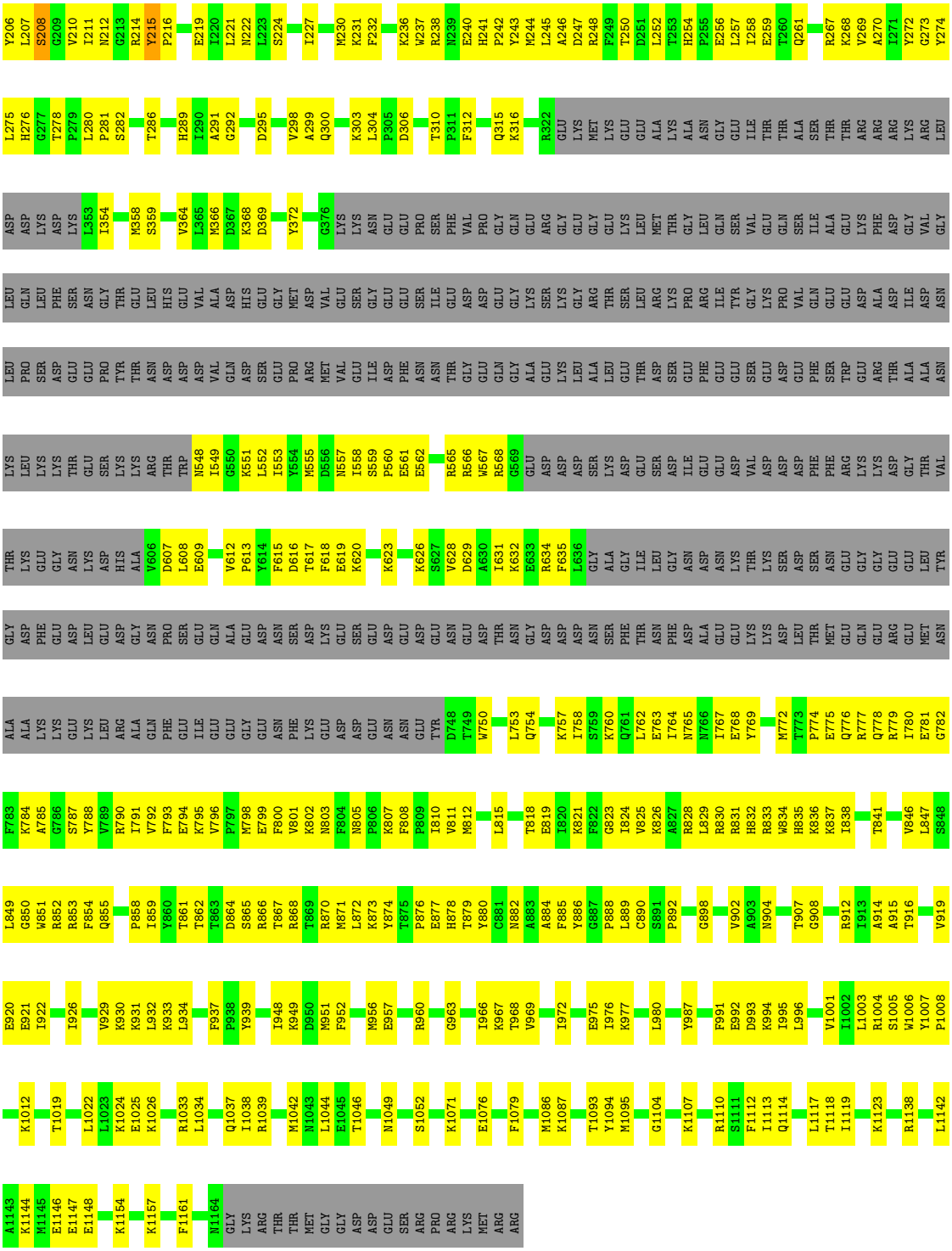


• Molecule 35: Ribosome biogenesis protein BMS1

Chain CL:

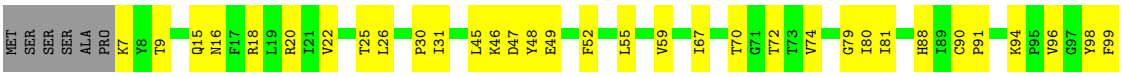


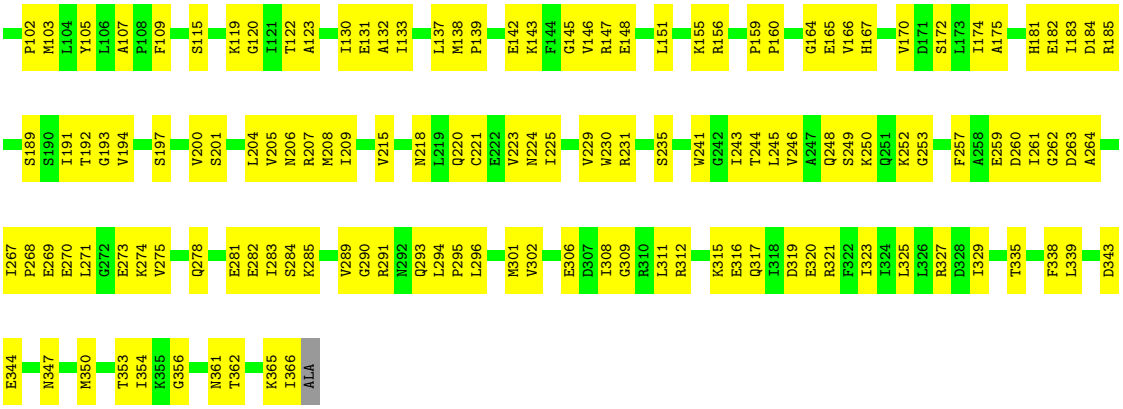




• Molecule 36: RNA 3'-terminal phosphate cyclase-like protein

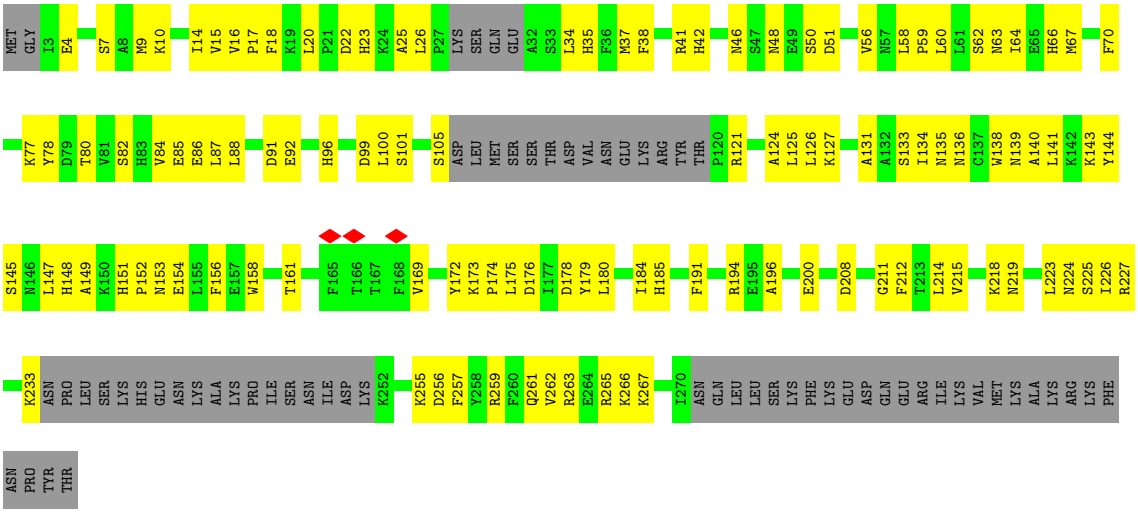
Chain CM:





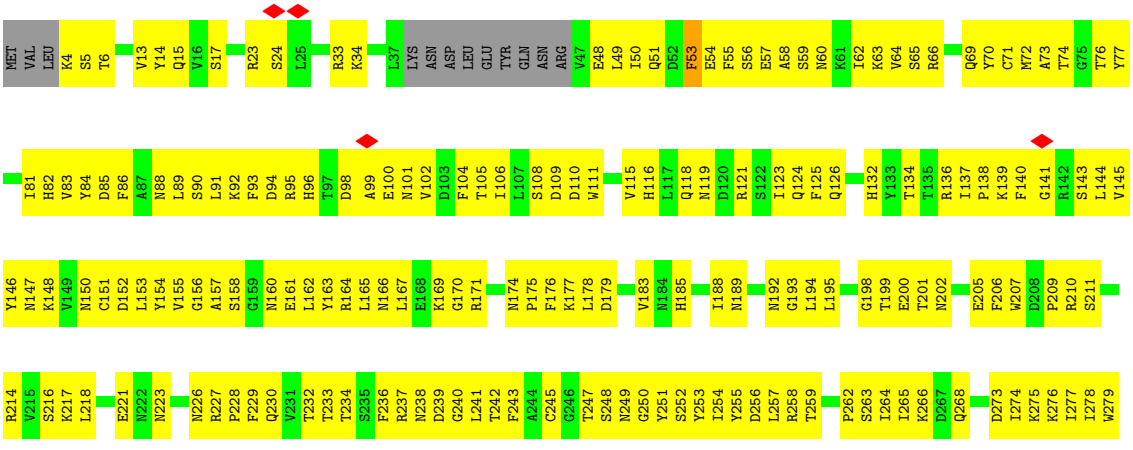
• Molecule 37: Ribosomal RNA-processing protein 7

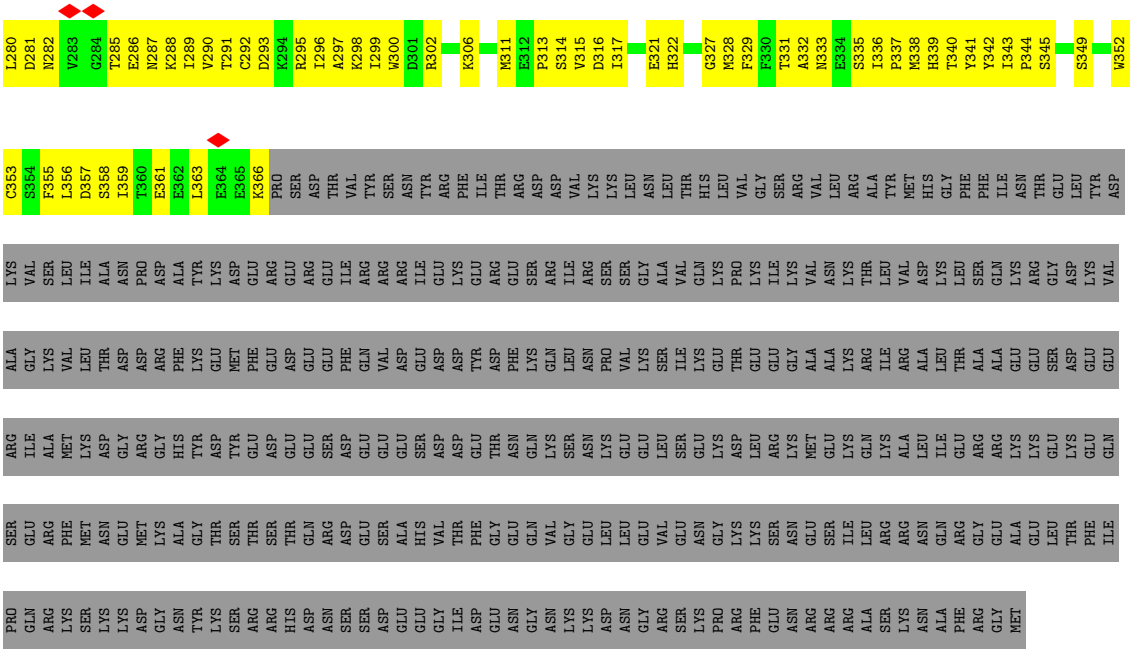
Chain CN:



• Molecule 38: Ribosome biogenesis protein ENP2

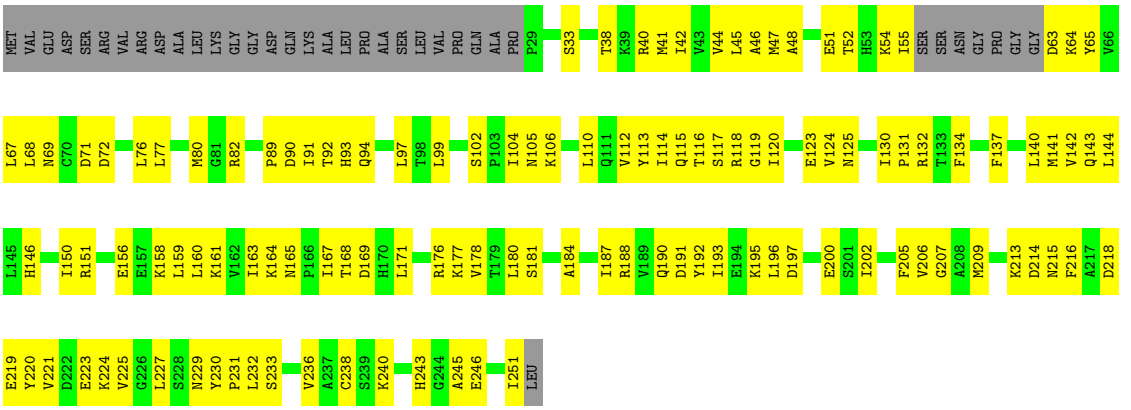
Chain JC:





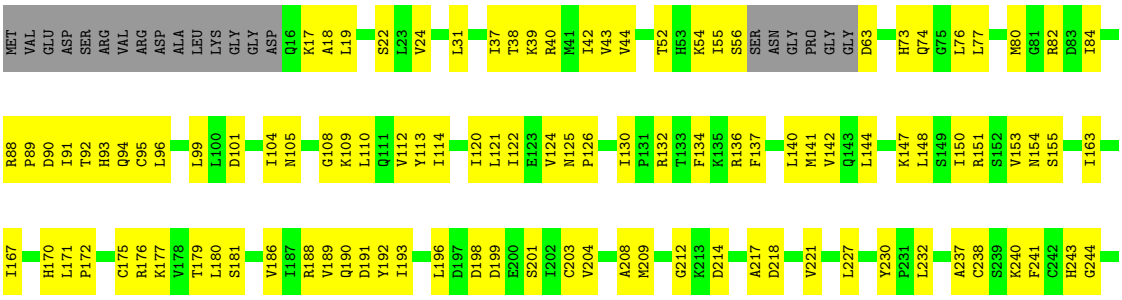
• Molecule 39: Ribosomal RNA small subunit methyltransferase NEP1

Chain JF:



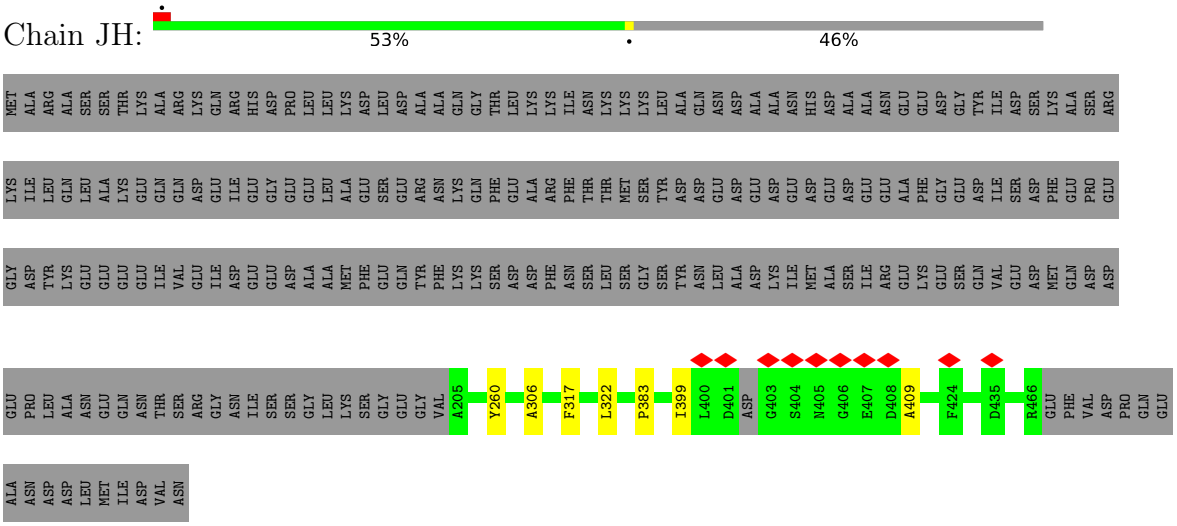
• Molecule 39: Ribosomal RNA small subunit methyltransferase NEP1

Chain JG:



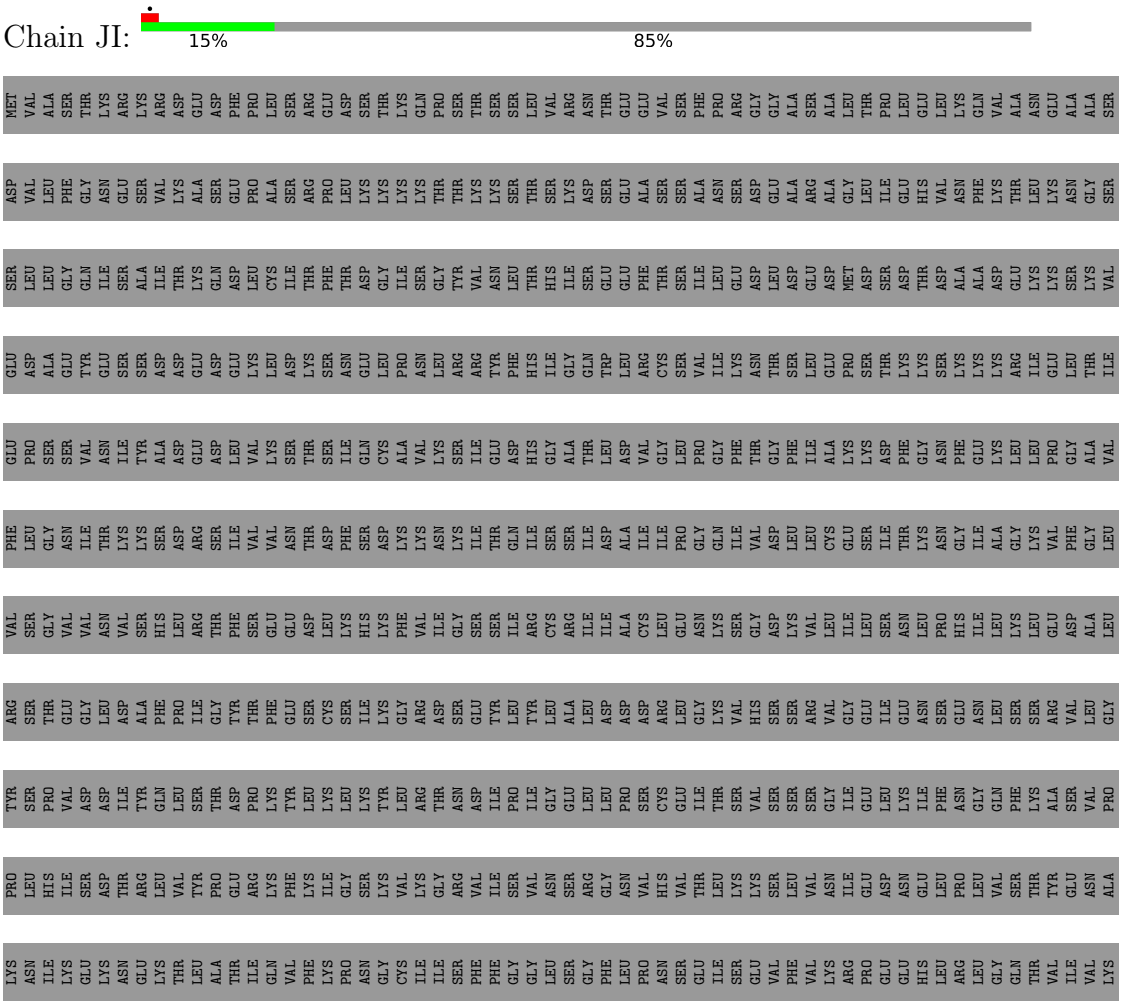
• Molecule 40: Essential nuclear protein 1

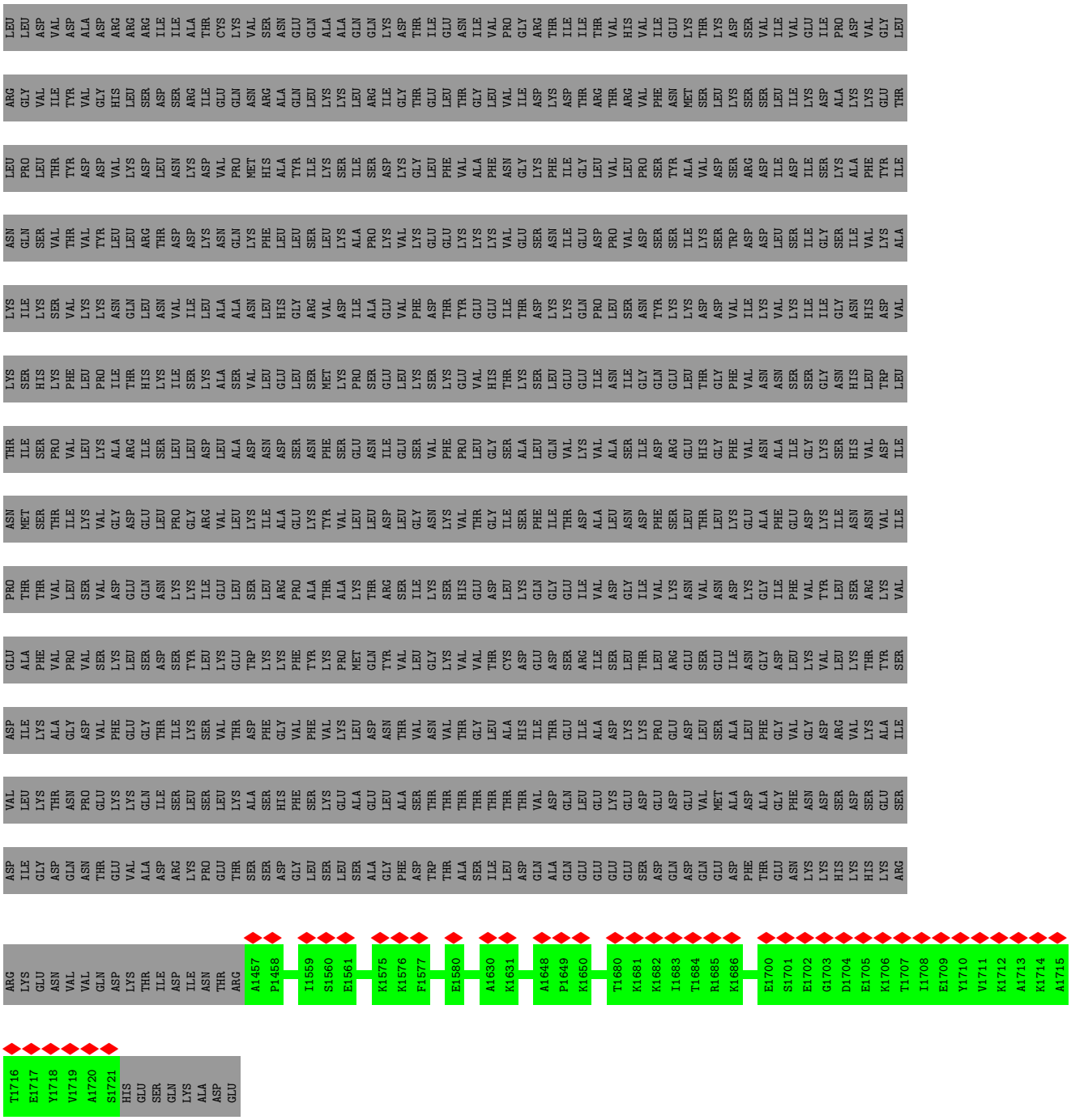
Chain JH:



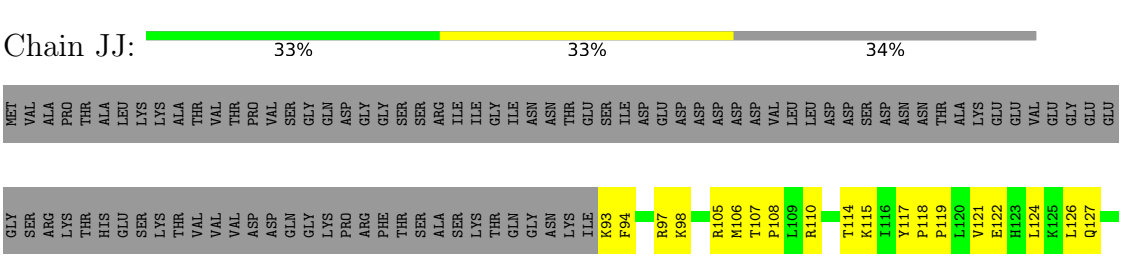
• Molecule 41: rRNA biogenesis protein RRP5

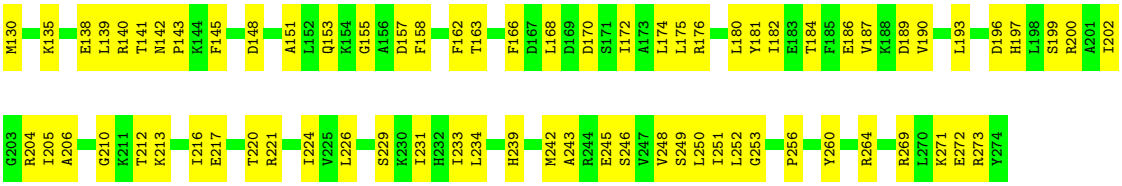
Chain JI:



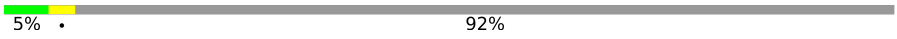


• Molecule 42: Pre-rRNA-processing protein PNO1

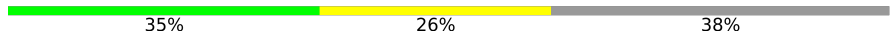


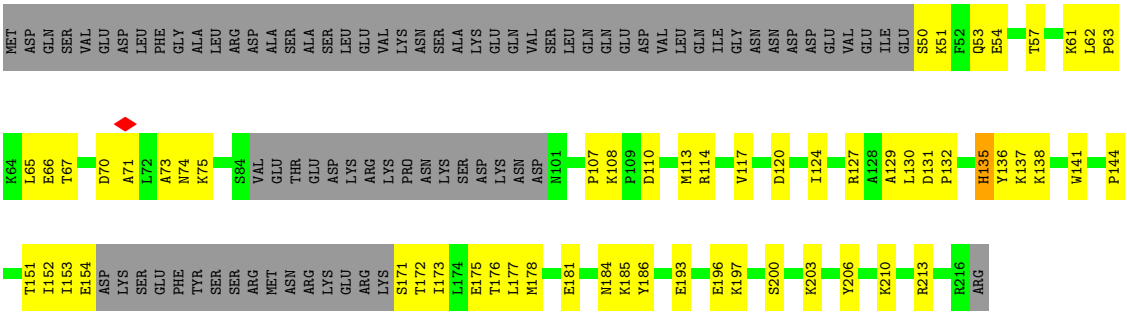


• Molecule 43: Protein BFR2



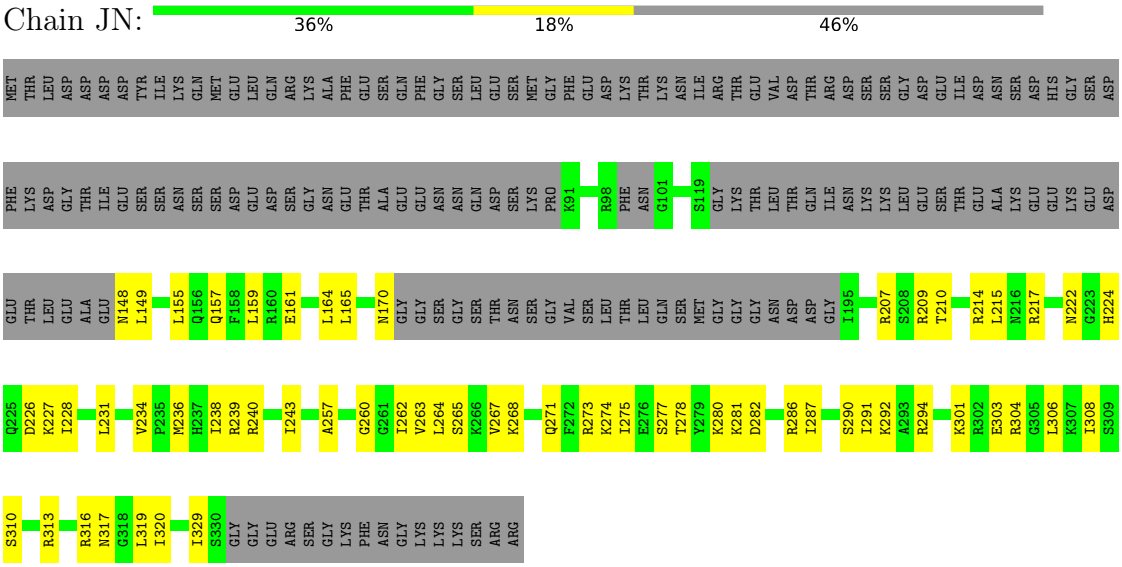
• Molecule 44: rRNA-processing protein FCF2





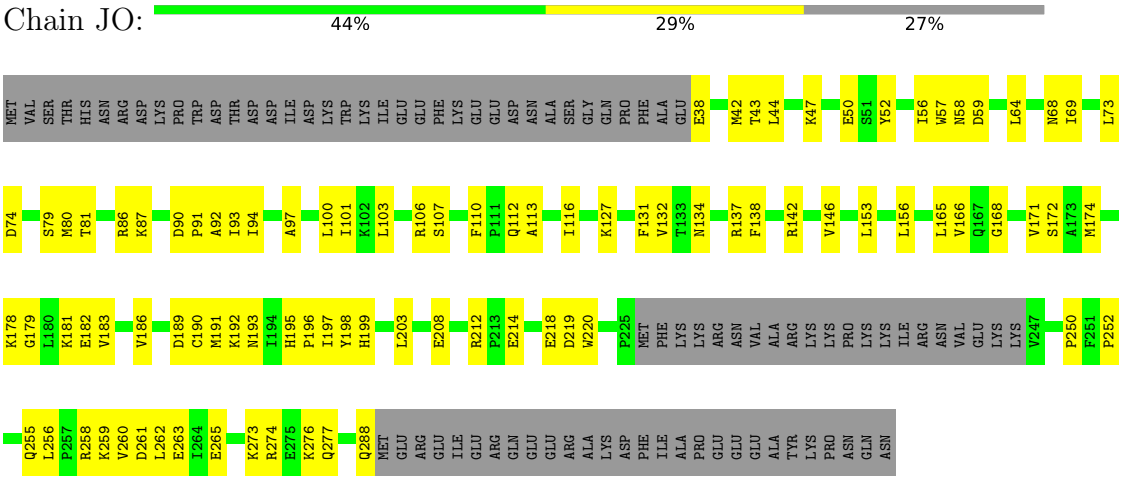
• Molecule 45: Protein FAF1

Chain JN:



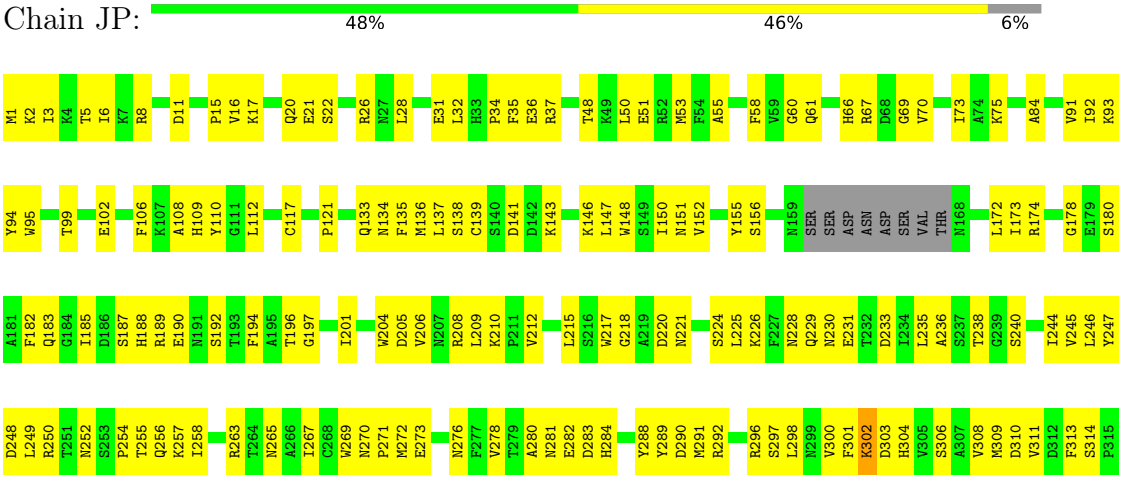
• Molecule 46: KRR1 small subunit processome component

Chain JO:



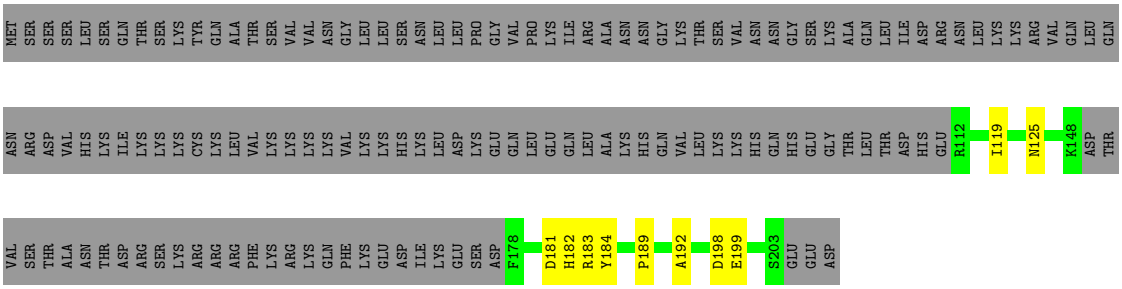
• Molecule 47: Protein SOF1

Chain JP:



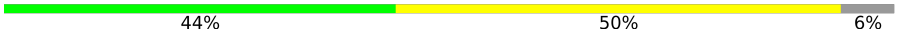
• Molecule 48: Regulator of rDNA transcription protein 14

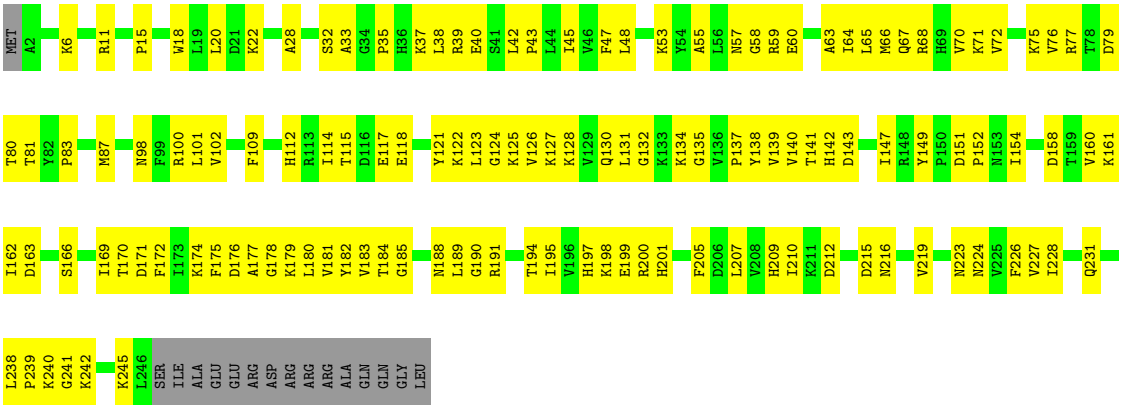
Chain JQ:



• Molecule 49: 40S ribosomal protein S4-A

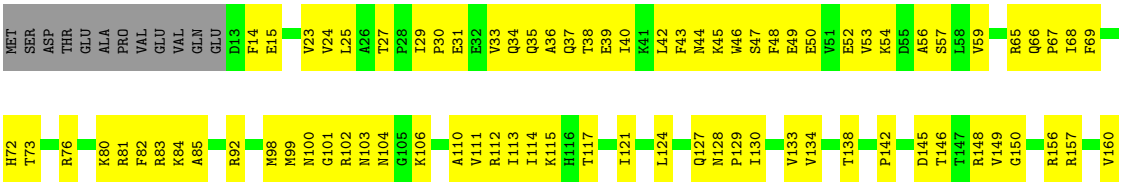
Chain DE:





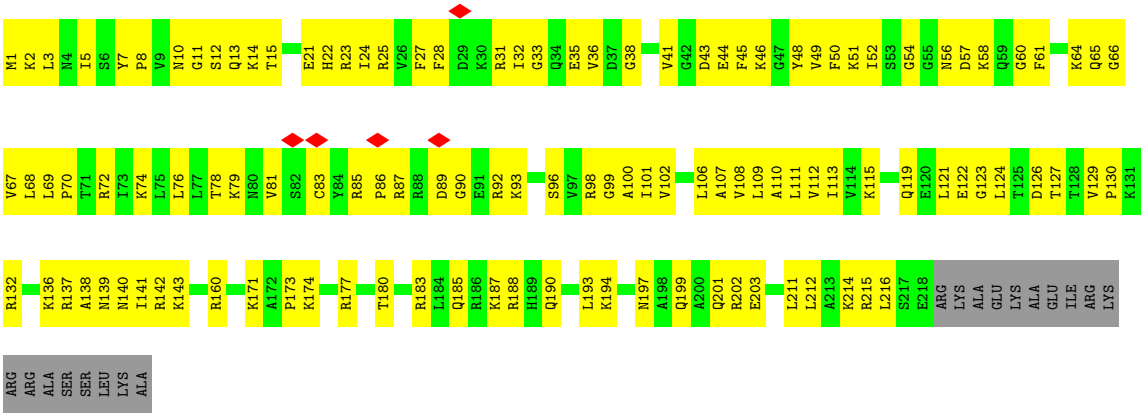
• Molecule 50: 40S ribosomal protein S5

Chain DF:



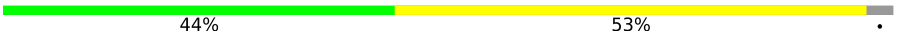
• Molecule 51: 40S ribosomal protein S6-A

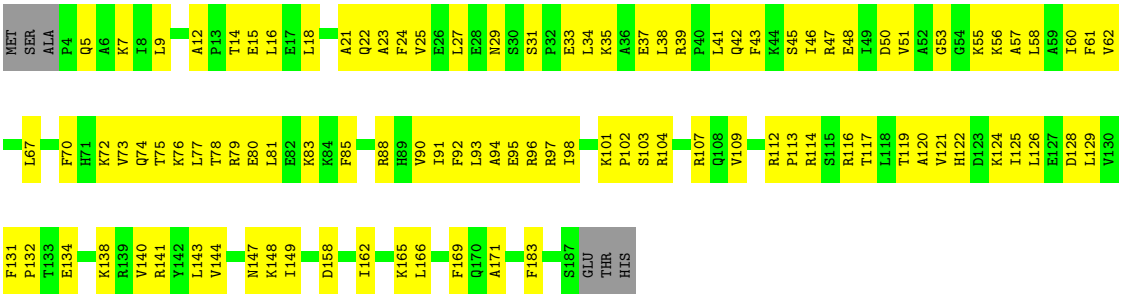
Chain DG:



• Molecule 52: 40S ribosomal protein S7-A

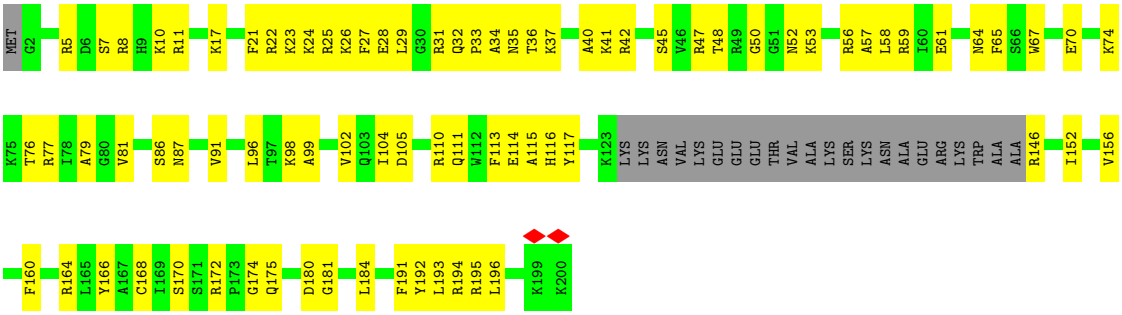
Chain DH:





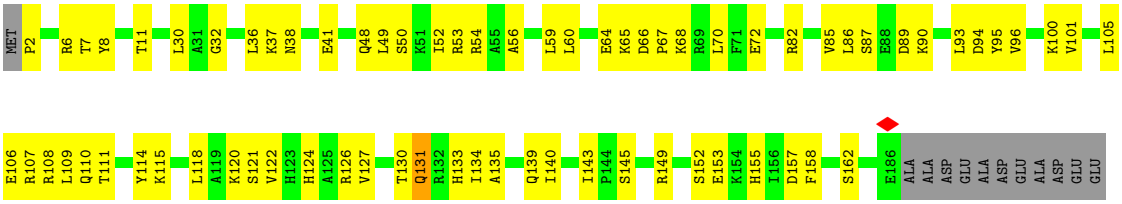
• Molecule 53: 40S ribosomal protein S8-A

Chain DI:



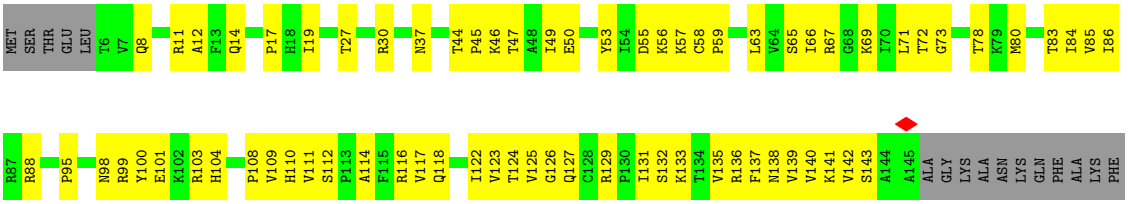
• Molecule 54: 40S ribosomal protein S9-A

Chain DJ:



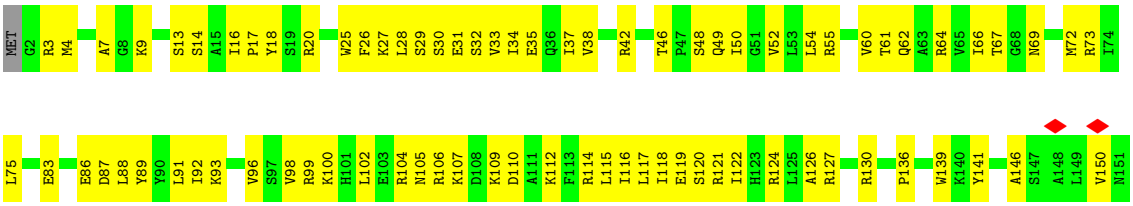
• Molecule 55: 40S ribosomal protein S11-A

Chain DL:



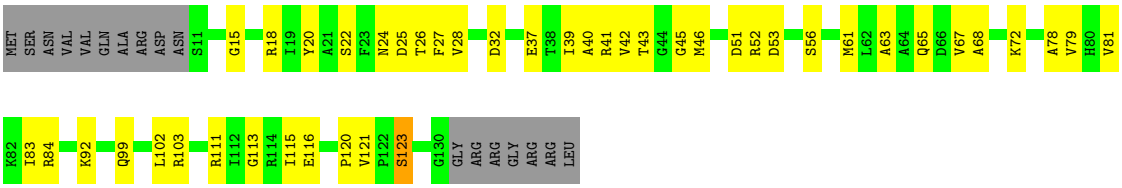
• Molecule 56: 40S ribosomal protein S13

Chain DN:



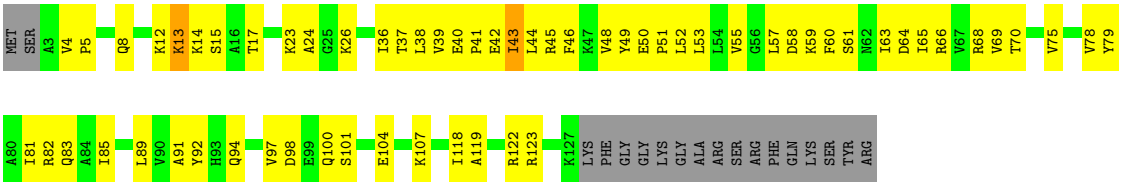
• Molecule 57: 40S ribosomal protein S14-A

Chain DO:



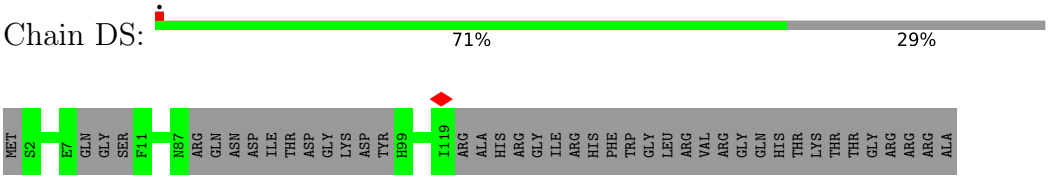
• Molecule 58: 40S ribosomal protein S16-A

Chain DQ:



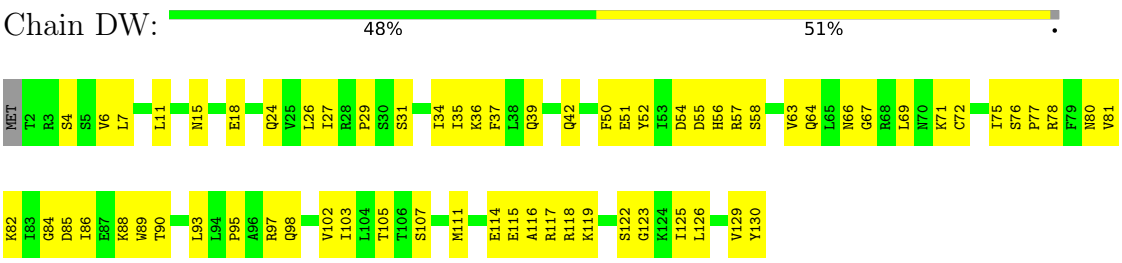
• Molecule 59: 40S ribosomal protein S18-A

Chain DS:



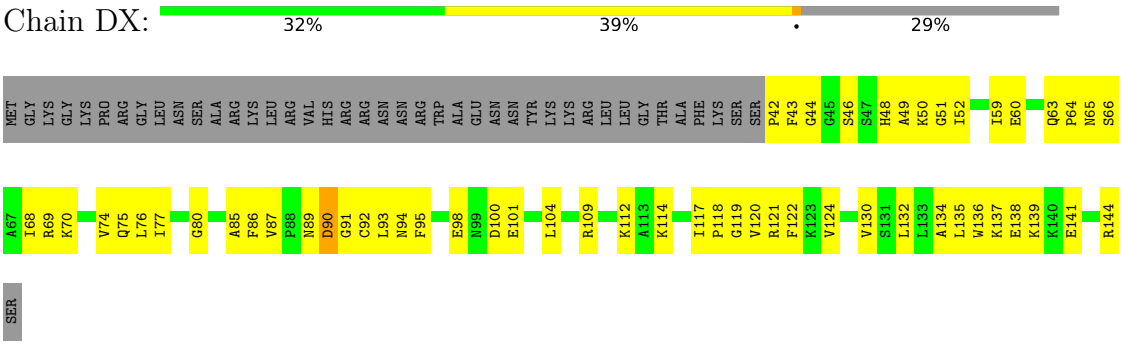
• Molecule 60: 40S ribosomal protein S22-A

Chain DW:



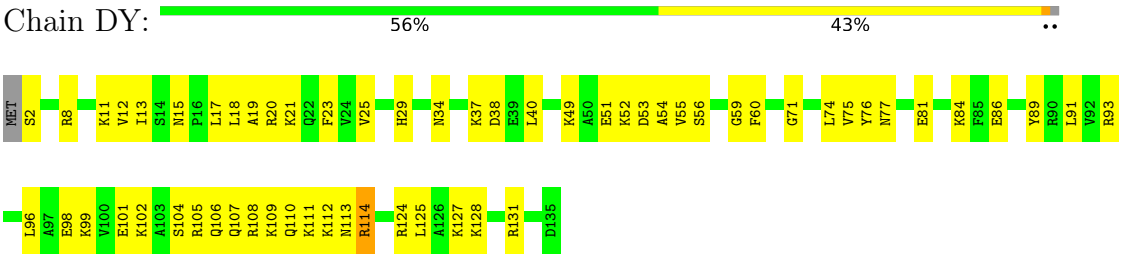
• Molecule 61: 40S ribosomal protein S23-A

Chain DX:



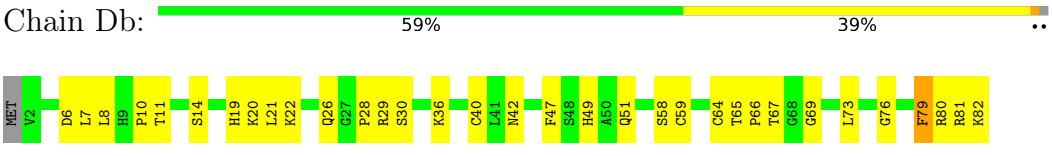
• Molecule 62: 40S ribosomal protein S24-A

Chain DY:



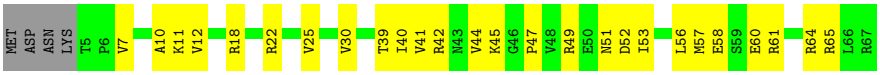
• Molecule 63: 40S ribosomal protein S27-A

Chain Db:



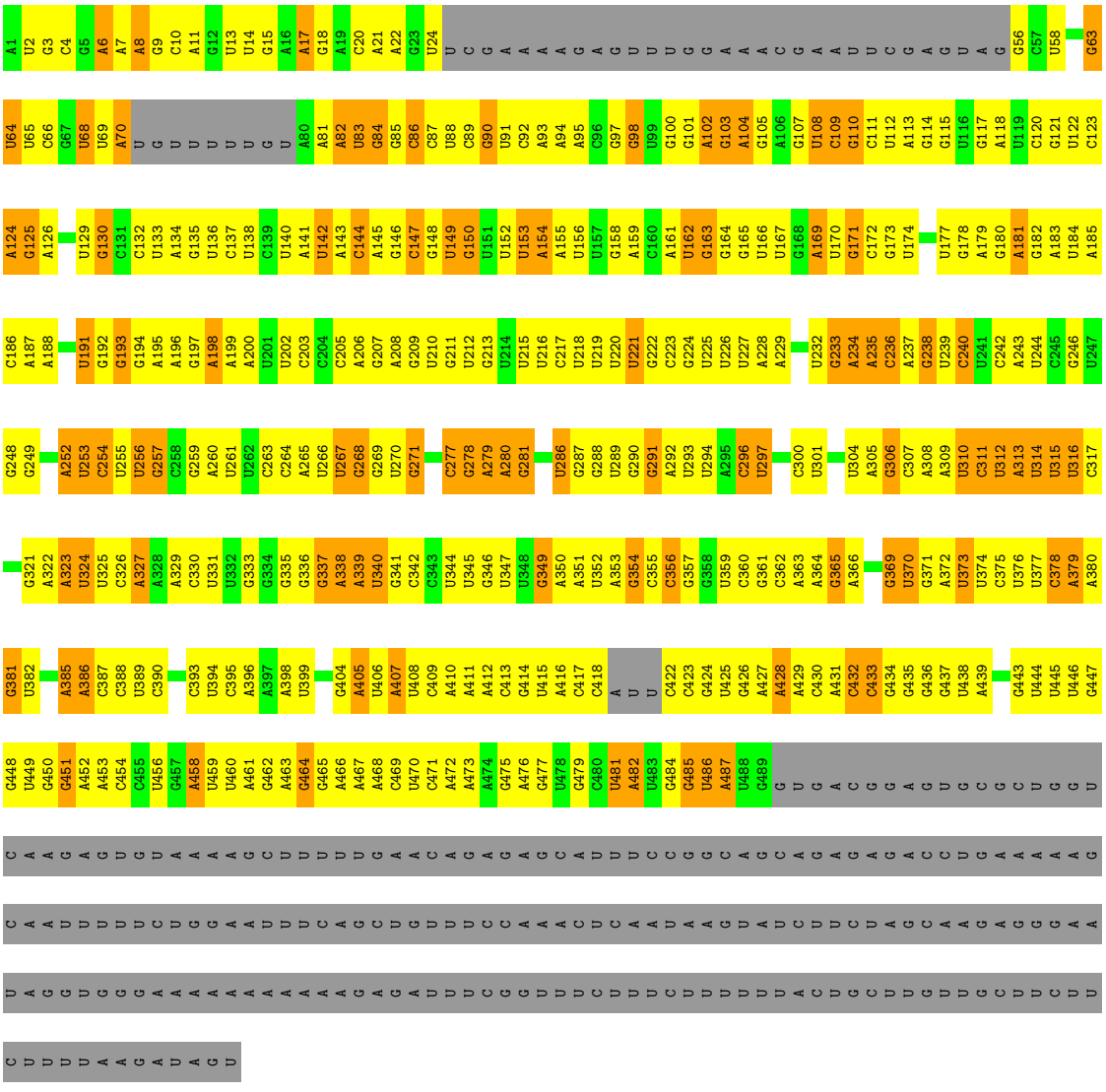
• Molecule 64: 40S ribosomal protein S28-A

Chain Dc:



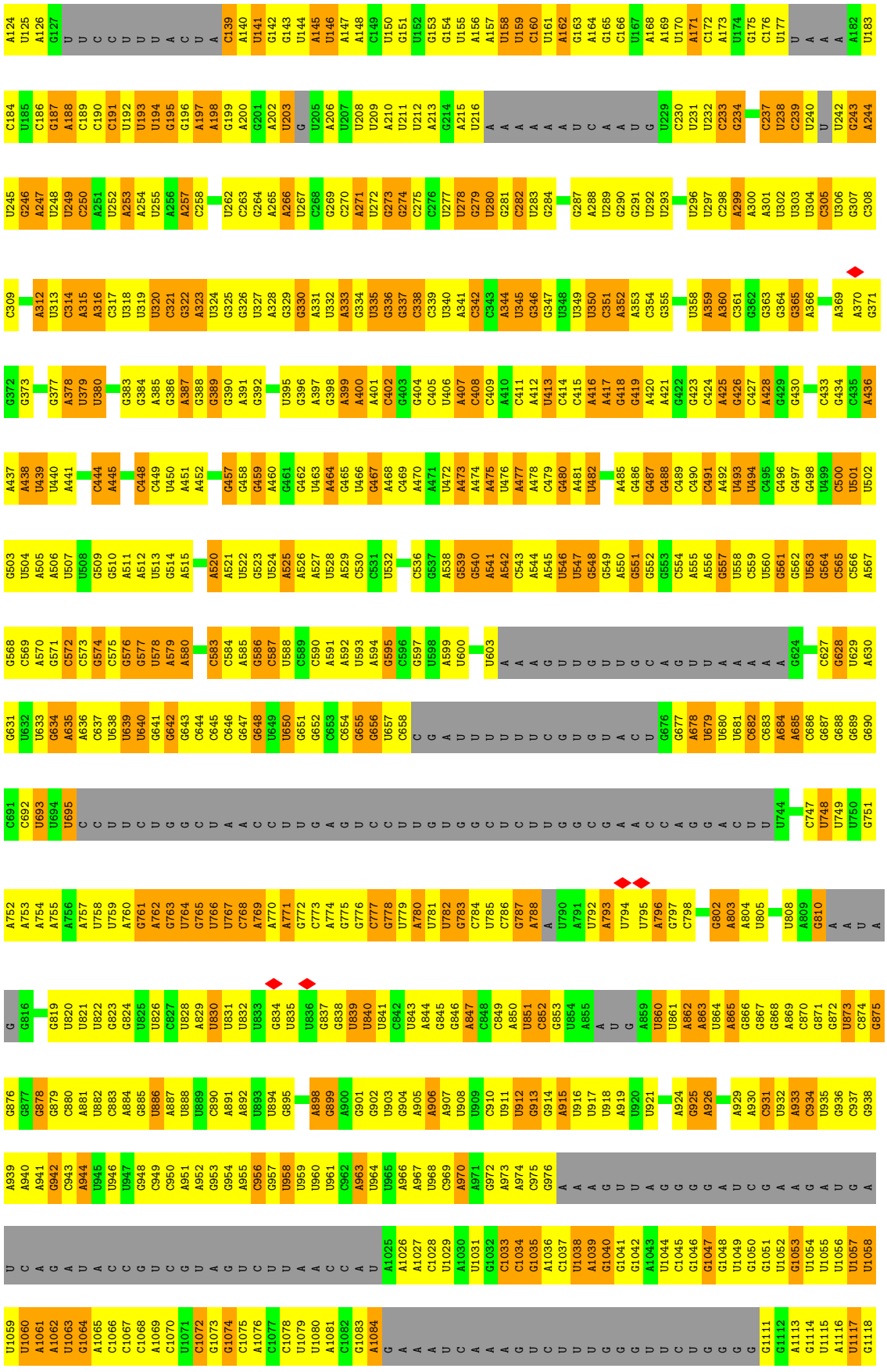
• Molecule 65: 5'ETS RNA

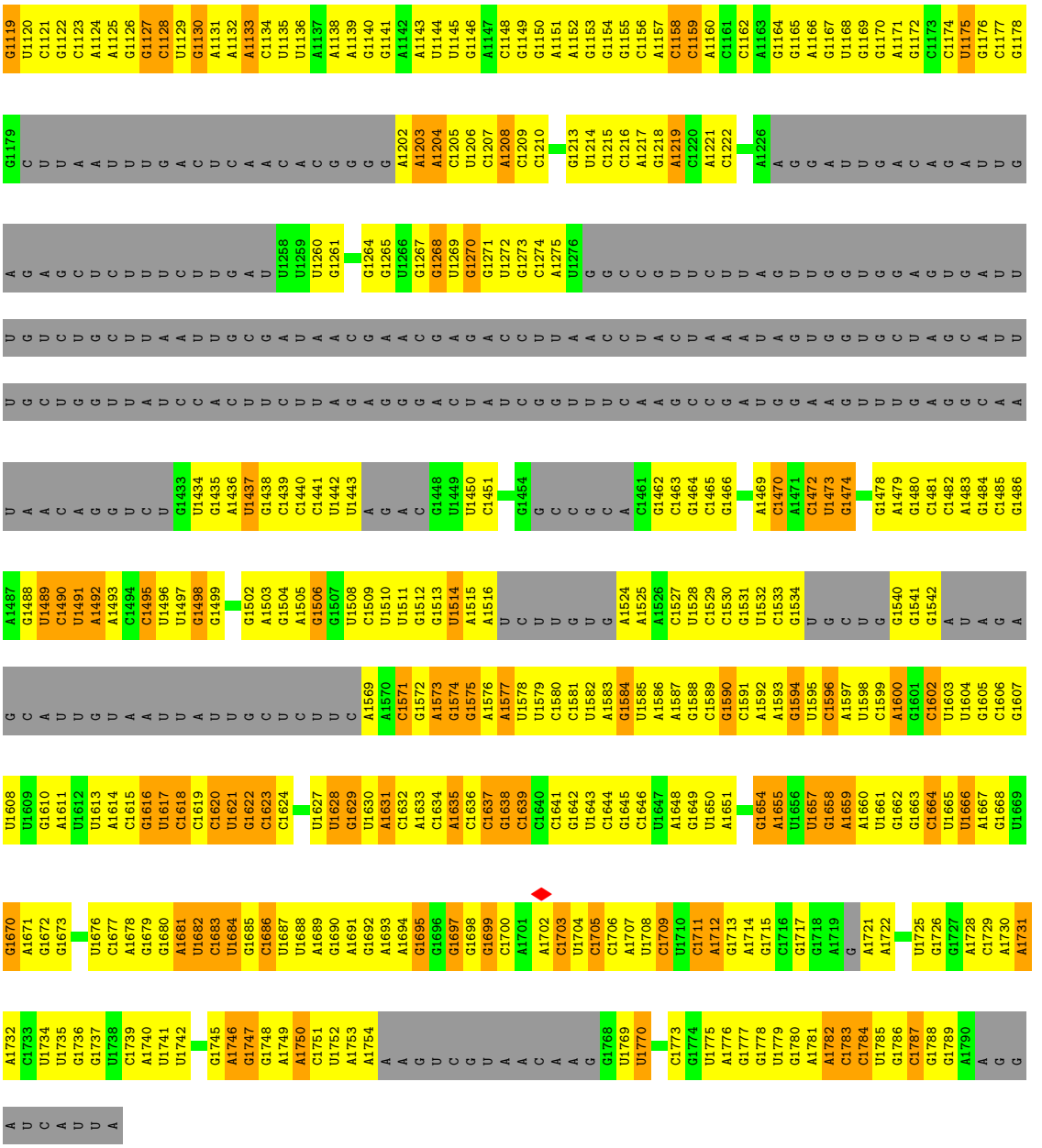
Chain D2:



• Molecule 66: 18S rRNA

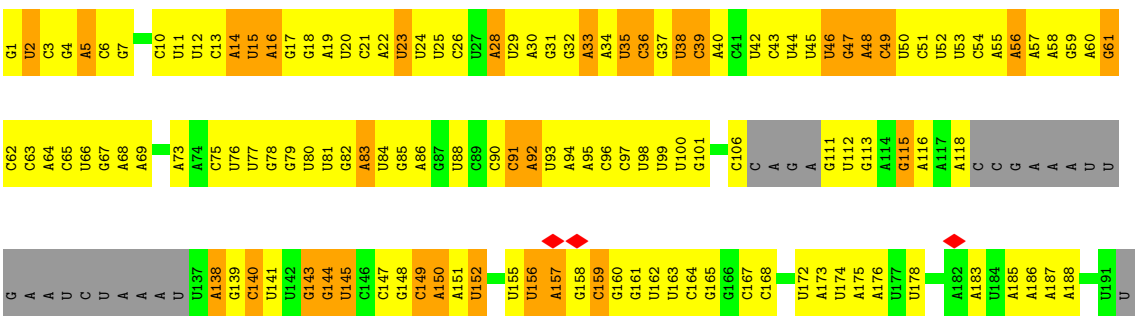
Chain D3:

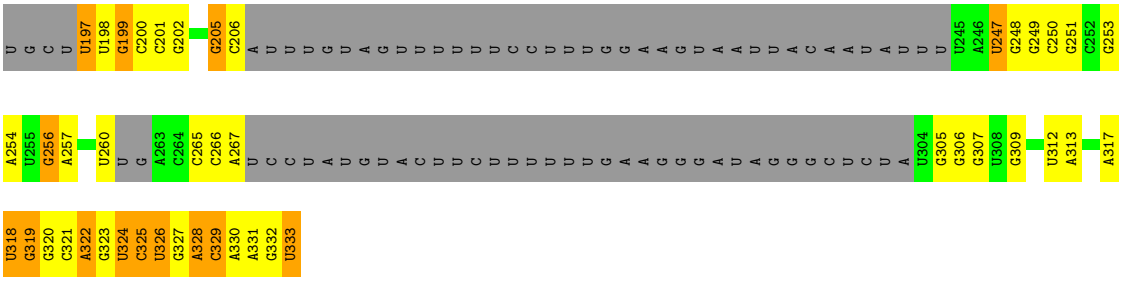




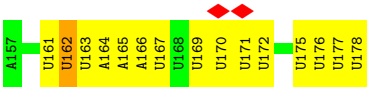
• Molecule 67: U3 snoRNA

Chain D4:

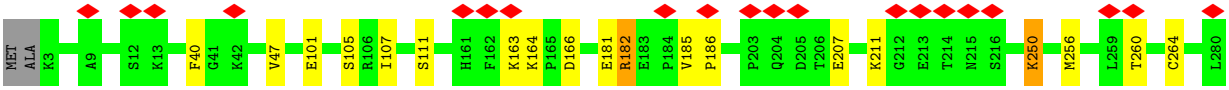


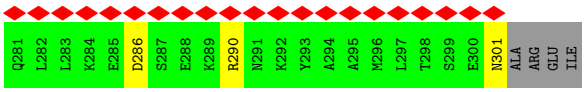


• Molecule 68: RNA



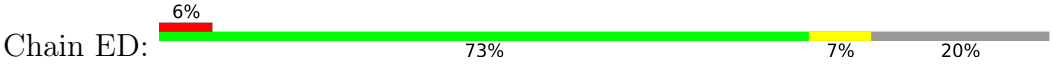
• Molecule 69: Exosome complex component RRP45

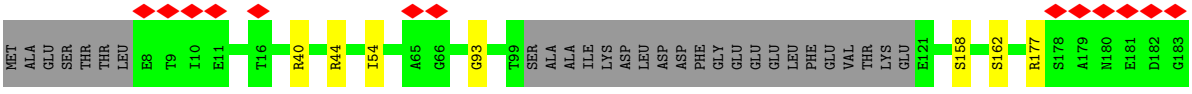


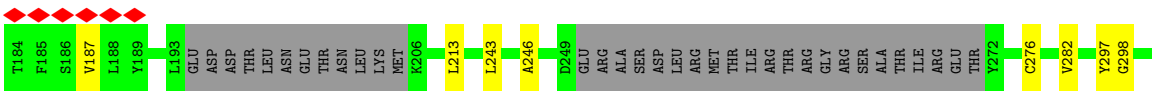


• Molecule 70: Exosome complex component SKI6

• Molecule 71: Exosome complex component RRP43

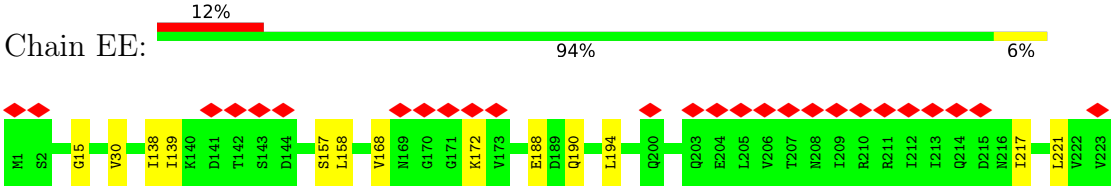






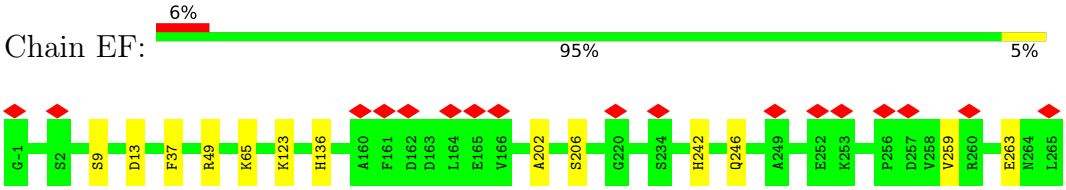
• Molecule 72: Exosome complex component RRP46

Chain EE:



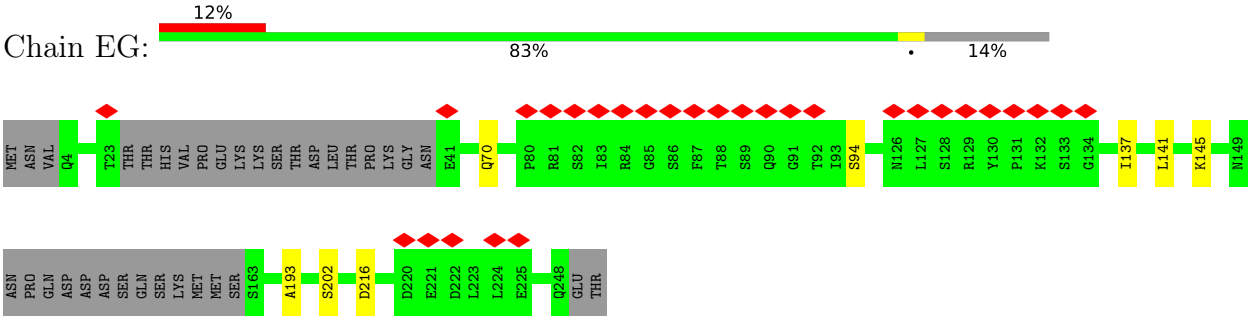
• Molecule 73: Exosome complex component RRP42

Chain EF:



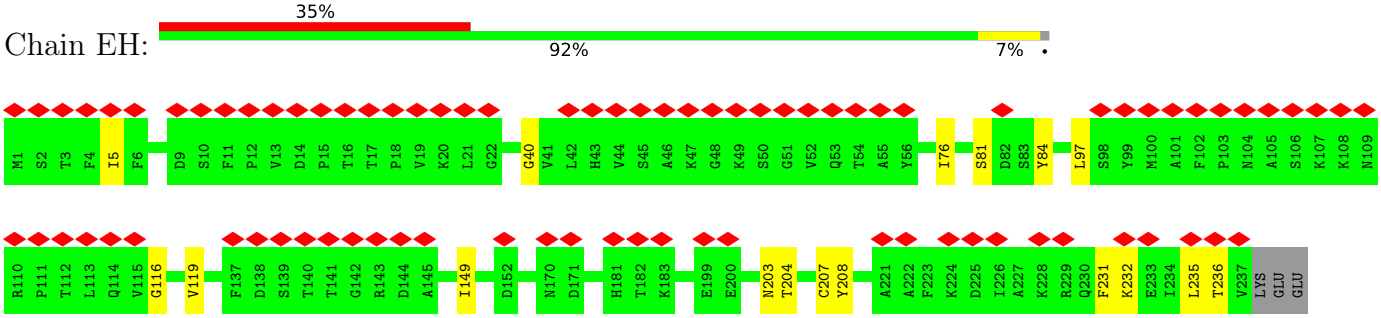
• Molecule 74: Exosome complex component MTR3

Chain EG:



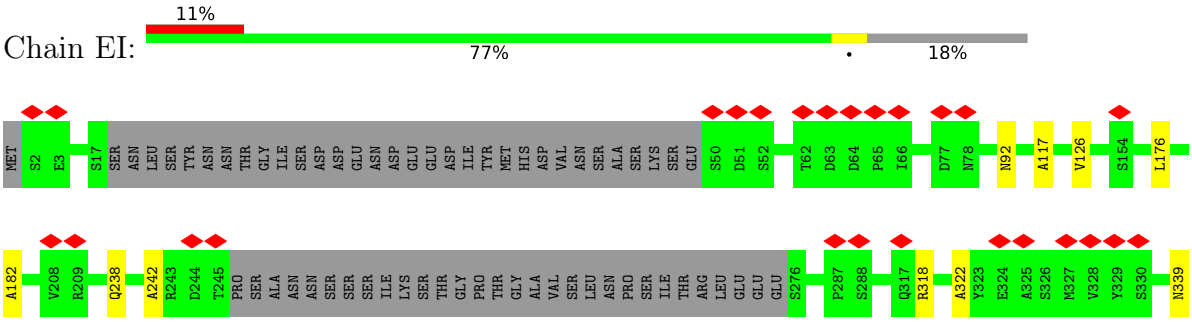
• Molecule 75: Exosome complex component RRP40

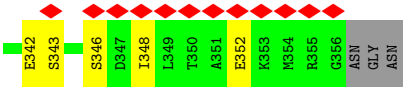
Chain EH:



• Molecule 76: Exosome complex component RRP4

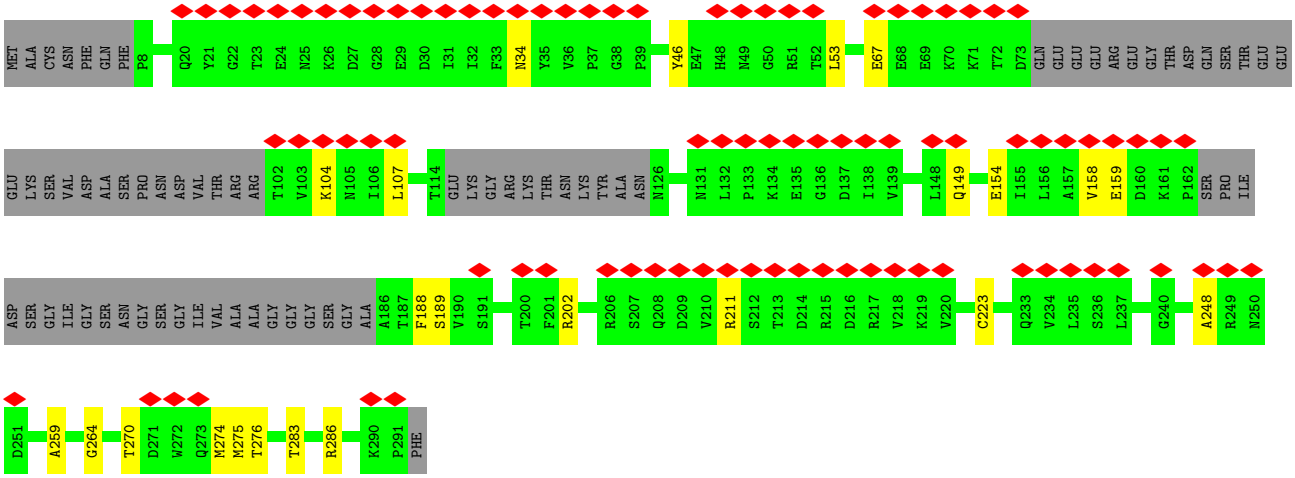
Chain EI:





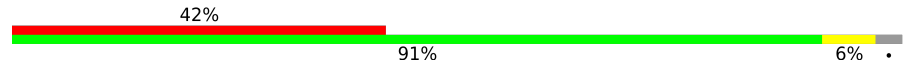
• Molecule 77: Exosome complex component CSL4

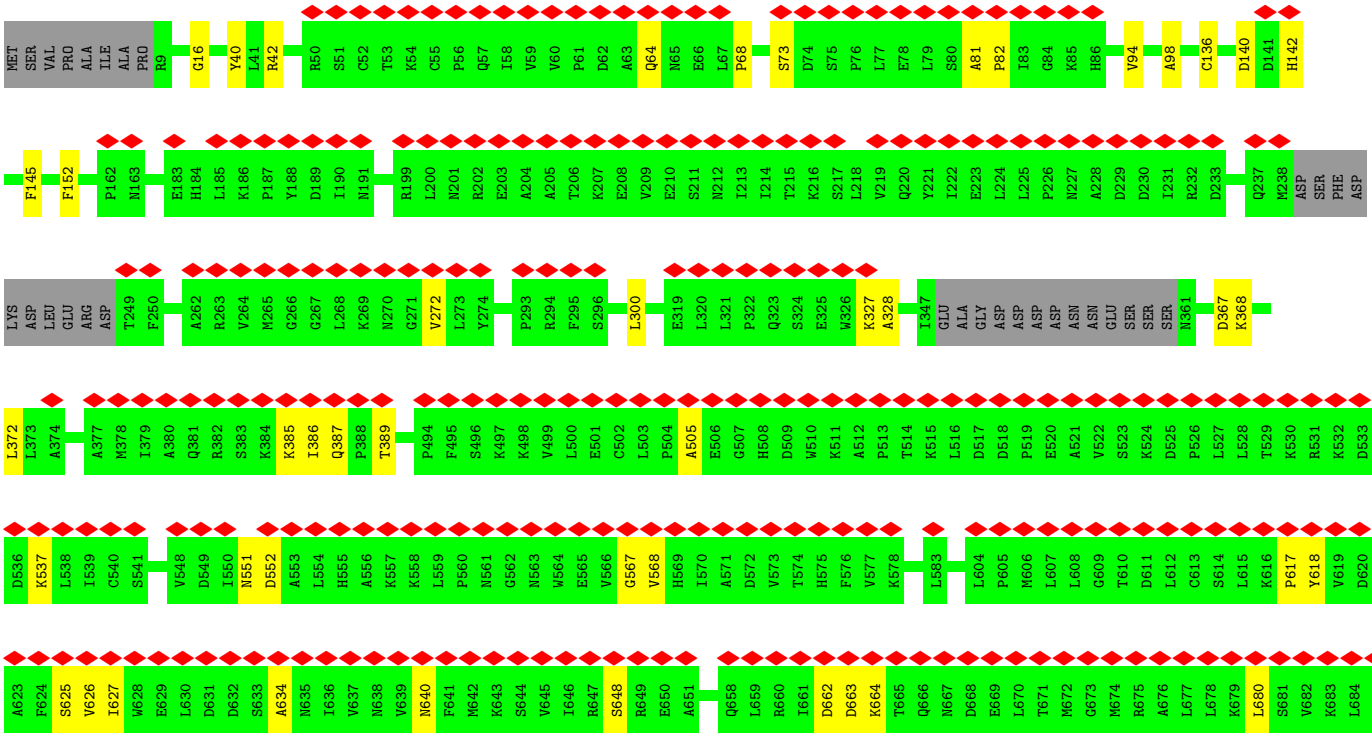
Chain EJ:

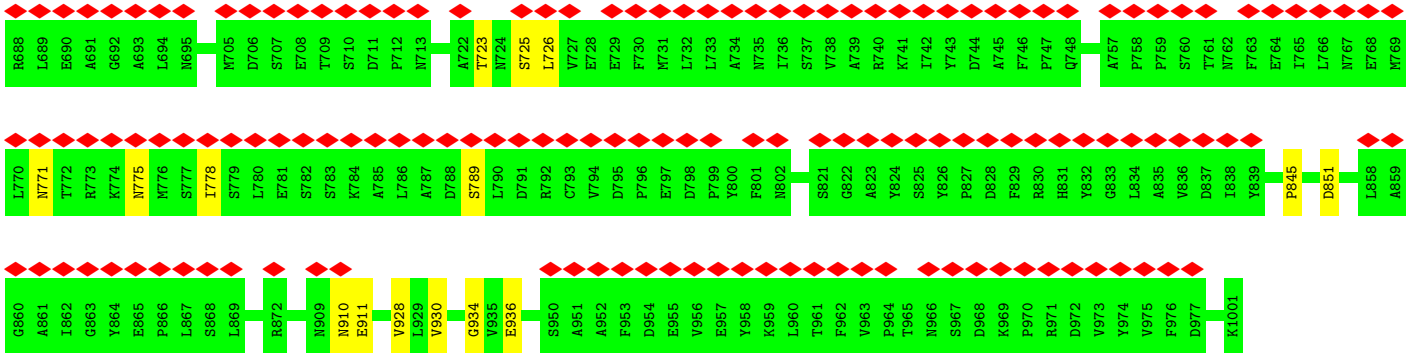


• Molecule 78: Exosome complex exonuclease DIS3

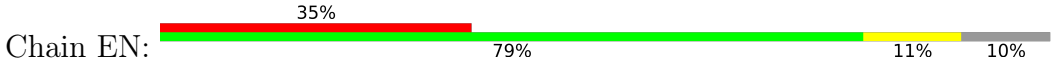
Chain EK:

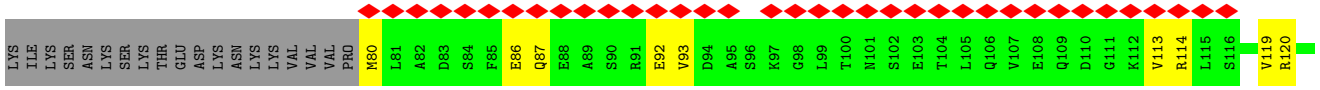


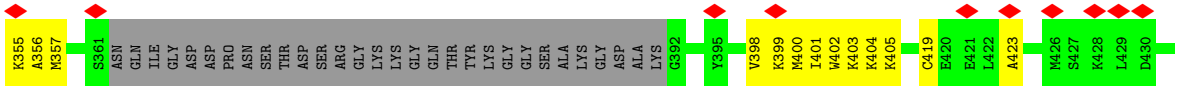


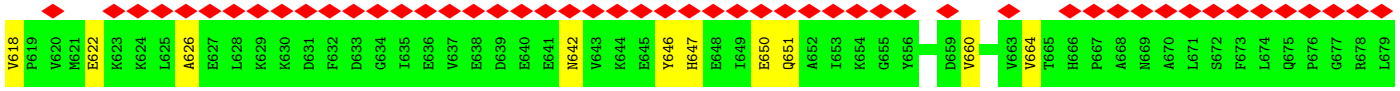


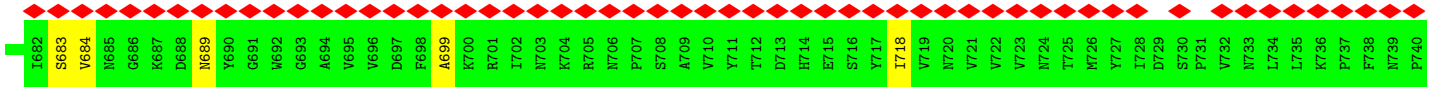
• Molecule 79: ATP-dependent RNA helicase DOB1

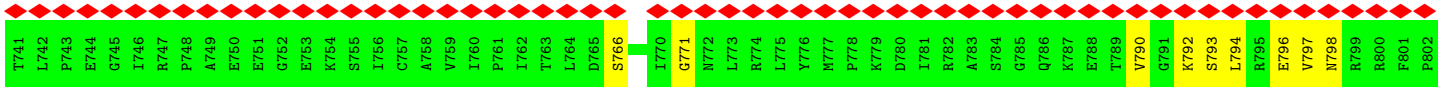


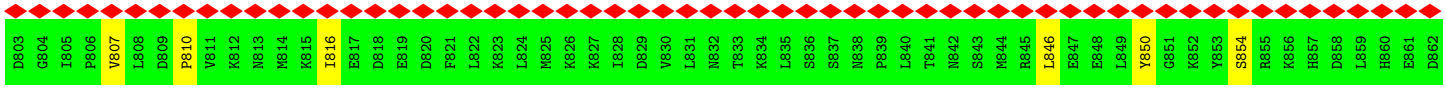


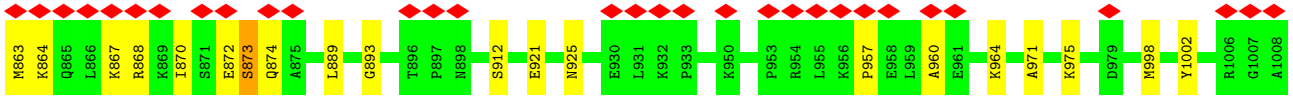


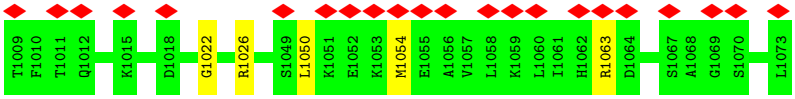











T1009
F1010
T1011
Q1012
K1015
D1018
G1022
R1026
S1049
L1050
K1051
E1052
K1053
M1054
E1055
A1056
V1057
L1058
K1059
L1060
I1061
H1062
R1063
D1064
S1067
A1068
G1069
S1070
L1073

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	6024	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	0.259	Depositor
Minimum map value	-0.204	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.007	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

5.1 Standard geometry

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

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	0.59	0/1917	0.75	0/2588
1	CB	0.35	0/1815	0.68	2/2448 (0.1%)
2	DA	0.40	0/1937	0.66	0/2593
3	JA	0.19	0/6021	0.50	2/8176 (0.0%)
3	JB	0.14	0/4128	0.40	0/5747
4	UA	0.48	0/6780	0.72	4/9175 (0.0%)
5	UB	0.24	0/3787	0.52	0/5126
6	UC	0.48	0/1034	0.75	0/1365
7	UD	0.33	0/5461	0.62	0/7395
8	UE	0.32	0/3840	0.61	0/5208
9	UF	0.37	0/2538	0.61	0/3405
10	UG	0.57	0/4302	0.78	0/5805
11	UH	0.21	0/2716	0.56	0/3721
12	UI	0.24	0/875	0.59	0/1176
13	UJ	0.30	0/9111	0.54	1/12323 (0.0%)
14	UK	0.48	0/2047	0.78	2/2711 (0.1%)
15	UL	0.29	0/6857	0.58	0/9253
16	UM	0.27	0/6070	0.57	3/8216 (0.0%)
17	UN	0.48	0/1252	0.75	0/1688
18	UO	0.35	0/3993	0.63	1/5413 (0.0%)
19	UP	0.30	0/499	0.58	0/659
20	UQ	0.32	0/6794	0.59	1/9203 (0.0%)
21	UR	0.48	0/3883	0.70	2/5265 (0.0%)
22	US	0.28	0/3703	0.56	0/5053
23	UT	0.20	0/17584	0.50	2/23824 (0.0%)
24	UU	0.40	0/6815	0.62	2/9213 (0.0%)
25	UV	0.23	0/8945	0.47	0/12097
26	UX	0.61	0/1418	0.78	0/1906
27	UZ	0.31	0/2041	0.58	0/2745
28	CD	0.40	0/3041	0.61	0/4098
29	CE	0.35	0/3362	0.63	0/4533
30	CF	0.45	0/944	0.71	1/1284 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
30	CG	0.50	0/941	0.85	3/1281 (0.2%)
31	CH	0.32	0/3798	0.61	0/5113
32	CI	0.71	0/1559	0.91	0/2097
33	CJ	0.54	0/2337	0.73	2/3148 (0.1%)
34	CK	0.40	0/1685	0.66	0/2261
35	CL	0.43	0/6471	0.71	4/8708 (0.0%)
36	CM	0.28	0/2832	0.52	0/3825
37	CN	0.20	0/1934	0.46	0/2604
38	JC	0.20	0/2908	0.53	0/3938
39	JF	0.24	0/1727	0.55	0/2329
39	JG	0.32	0/1828	0.64	0/2470
40	JH	0.12	0/1293	0.35	0/1801
41	JI	0.09	0/1313	0.32	0/1830
42	JJ	0.28	0/1469	0.57	0/1980
43	JK	0.21	0/342	0.47	0/462
44	JM	0.41	0/1156	0.67	0/1536
45	JN	0.51	0/1435	0.73	0/1907
46	JO	0.42	0/1910	0.65	0/2569
47	JP	0.61	0/3844	0.86	4/5174 (0.1%)
48	JQ	0.28	0/385	0.56	0/529
49	DE	0.28	0/1985	0.55	0/2675
50	DF	0.46	0/1690	0.67	0/2285
51	DG	0.19	0/1779	0.46	0/2379
52	DH	0.30	0/1506	0.56	0/2028
53	DI	0.19	0/1422	0.47	0/1899
54	DJ	0.51	0/1519	0.76	1/2035 (0.0%)
55	DL	0.19	0/1155	0.48	0/1557
56	DN	0.36	0/1215	0.65	0/1638
57	DO	0.38	0/892	0.61	0/1202
58	DQ	0.58	0/990	0.84	1/1335 (0.1%)
59	DS	0.19	0/513	0.44	0/711
60	DW	0.53	0/1038	0.76	0/1395
61	DX	0.47	0/798	0.79	0/1065
62	DY	0.35	0/1087	0.63	1/1449 (0.1%)
63	Db	0.43	0/620	0.66	0/838
64	Dc	0.41	0/499	0.75	0/670
65	D2	0.36	0/10633	0.37	0/16564
66	D3	0.32	0/31617	0.35	0/49213
67	D4	0.36	1/5432 (0.0%)	0.34	0/8439
68	EA	0.42	0/405	0.72	0/625
69	EB	0.60	1/1474 (0.1%)	0.79	0/2050
70	EC	0.60	0/1203	0.79	0/1673
71	ED	0.54	0/1569	0.82	0/2179

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
72	EE	0.56	0/1109	0.81	0/1545
73	EF	0.52	0/1328	0.80	0/1851
74	EG	0.56	0/1055	0.80	0/1462
75	EH	0.55	0/1169	0.86	2/1626 (0.1%)
76	EI	0.54	0/1437	0.84	0/1992
77	EJ	0.48	0/1087	0.84	0/1504
78	EK	0.66	0/4818	1.10	10/6720 (0.1%)
79	EN	0.49	0/4765	0.84	4/6636 (0.1%)
All	All	0.37	2/264486 (0.0%)	0.60	55/368214 (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
3	JA	0	1
4	UA	0	1
6	UC	0	1
9	UF	0	1
11	UH	0	3
15	UL	0	2
16	UM	0	3
20	UQ	0	1
21	UR	0	1
23	UT	0	2
30	CG	0	1
31	CH	0	1
33	CJ	0	1
34	CK	0	1
38	JC	0	1
44	JM	0	1
47	JP	0	3
56	DN	0	1
57	DO	0	1
58	DQ	0	1
63	Db	0	1
70	EC	0	1
71	ED	0	3
72	EE	0	1
73	EF	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
74	EG	0	2
76	EI	0	1
77	EJ	0	1
79	EN	0	3
All	All	0	43

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
69	EB	250	LYS	CA-CB	-7.14	1.43	1.53
67	D4	197	U	C1'-N1	5.73	1.57	1.48

All (55) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
78	EK	272	VAL	N-CA-C	9.36	120.17	110.62
23	UT	1991	ASN	CA-C-N	-8.37	109.97	121.61
23	UT	1991	ASN	C-N-CA	-8.37	109.97	121.61
58	DQ	43	ILE	N-CA-C	-7.83	104.90	113.43
62	DY	114	ARG	CB-CG-CD	7.77	129.17	111.30
14	UK	68	HIS	CA-C-N	-7.73	110.96	122.56
14	UK	68	HIS	C-N-CA	-7.73	110.96	122.56
30	CG	66	HIS	CA-C-N	7.59	130.44	120.26
30	CG	66	HIS	C-N-CA	7.59	130.44	120.26
24	UU	143	SER	CA-C-N	7.20	147.09	121.59
24	UU	143	SER	C-N-CA	7.20	147.09	121.59
78	EK	551	ASN	N-CA-C	6.80	118.69	111.28
16	UM	296	ILE	N-CA-C	-6.49	106.49	111.62
35	CL	77	PRO	CA-C-N	6.49	126.42	119.28
35	CL	77	PRO	C-N-CA	6.49	126.42	119.28
35	CL	240	GLU	CA-C-N	-6.29	111.35	122.48
35	CL	240	GLU	C-N-CA	-6.29	111.35	122.48
13	UJ	1590	ILE	N-CA-C	-6.19	106.40	111.91
3	JA	91	MET	CA-C-N	5.99	129.94	121.61
3	JA	91	MET	C-N-CA	5.99	129.94	121.61
78	EK	725	SER	N-CA-C	-5.87	104.88	111.28
79	EN	612	PHE	N-CA-C	-5.80	107.19	114.56
4	UA	180	LYS	N-CA-C	-5.77	104.89	111.07
20	UQ	873	THR	N-CA-C	-5.74	108.08	114.62
4	UA	183	ALA	N-CA-C	5.63	117.14	107.28
1	CB	231	ARG	CB-CG-CD	5.58	124.14	111.30
78	EK	552	ASP	N-CA-C	5.58	117.67	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
78	EK	73	SER	O-C-N	-5.53	116.23	122.97
79	EN	1063	ARG	CA-C-N	5.45	131.95	121.54
79	EN	1063	ARG	C-N-CA	5.45	131.95	121.54
79	EN	912	SER	N-CA-C	-5.42	107.68	114.56
75	EH	81	SER	CA-C-N	5.40	131.85	121.54
75	EH	81	SER	C-N-CA	5.40	131.85	121.54
21	UR	570	PHE	CA-C-N	-5.38	111.16	123.15
21	UR	570	PHE	C-N-CA	-5.38	111.16	123.15
4	UA	397	LYS	CA-C-N	5.34	130.72	121.64
4	UA	397	LYS	C-N-CA	5.34	130.72	121.64
1	CB	236	MET	CB-CG-SD	-5.33	96.72	112.70
47	JP	302	LYS	CA-C-N	-5.32	111.49	121.81
47	JP	302	LYS	C-N-CA	-5.32	111.49	121.81
78	EK	367	ASP	N-CA-C	5.30	117.06	111.28
18	UO	507	MET	CB-CG-SD	5.30	128.60	112.70
47	JP	269	TRP	CA-C-N	-5.25	112.63	121.76
47	JP	269	TRP	C-N-CA	-5.25	112.63	121.76
78	EK	16	GLY	N-CA-C	-5.22	108.04	115.30
78	EK	64	GLN	N-CA-C	-5.18	102.61	110.28
16	UM	306	LEU	CA-C-N	5.16	128.94	120.63
16	UM	306	LEU	C-N-CA	5.16	128.94	120.63
30	CG	62	GLU	CB-CG-CD	-5.15	103.85	112.60
30	CF	48	ILE	N-CA-C	-5.12	108.30	113.47
78	EK	662	ASP	N-CA-C	5.08	116.89	111.36
33	CJ	110	LEU	CA-C-N	-5.05	112.94	121.03
33	CJ	110	LEU	C-N-CA	-5.05	112.94	121.03
78	EK	385	LYS	N-CA-C	5.05	118.56	111.74
54	DJ	131	GLN	CB-CG-CD	-5.05	104.02	112.60

There are no chirality outliers.

All (43) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
30	CG	104	THR	Peptide
31	CH	340	GLY	Peptide
33	CJ	117	LEU	Peptide
34	CK	453	SER	Peptide
2	DA	104	ASP	Peptide
56	DN	3	ARG	Peptide
57	DO	123	SER	Peptide
58	DQ	13	LYS	Peptide
63	Db	79	PHE	Peptide

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Mol	Chain	Res	Type	Group
70	EC	166	TYR	Peptide
71	ED	335	ASP	Peptide
71	ED	352	ALA	Peptide
71	ED	54	ILE	Peptide
72	EE	188	GLU	Peptide
73	EF	136	HIS	Peptide
74	EG	141	LEU	Peptide
74	EG	216	ASP	Peptide
76	EI	92	ASN	Peptide
77	EJ	149	GLN	Peptide
79	EN	541	SER	Peptide
79	EN	573	LYS	Peptide
79	EN	615	VAL	Peptide
3	JA	739	ASN	Peptide
38	JC	53	PHE	Peptide
44	JM	135	HIS	Peptide
47	JP	102	GLU	Peptide
47	JP	337	GLY	Peptide
47	JP	95	TRP	Peptide
4	UA	289	LEU	Peptide
6	UC	580	ARG	Peptide
9	UF	45	SER	Peptide
11	UH	257	SER	Peptide
11	UH	308	PHE	Peptide
11	UH	532	PHE	Peptide
15	UL	183	ASP	Peptide
15	UL	552	ASP	Peptide
16	UM	218	ASP	Peptide
16	UM	421	SER	Peptide
16	UM	705	SER	Peptide
20	UQ	179	ASP	Peptide
21	UR	367	GLN	Peptide
23	UT	1926	PHE	Peptide
23	UT	706	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	106	0
1	CB	1782	0	1826	157	0
2	DA	1912	0	2023	113	0
3	JA	5916	0	5463	328	0
3	JB	4132	0	1819	22	0
4	UA	6635	0	6525	342	0
5	UB	3734	0	3432	178	0
6	UC	1026	0	1080	63	0
7	UD	5361	0	5364	364	0
8	UE	3772	0	3806	211	0
9	UF	2487	0	2533	152	0
10	UG	4218	0	4223	246	0
11	UH	2701	0	1951	128	0
12	UI	860	0	922	83	0
13	UJ	8961	0	9273	538	0
14	UK	2021	0	2098	170	0
15	UL	6726	0	6764	407	0
16	UM	5969	0	6006	408	0
17	UN	1227	0	1223	69	0
18	UO	3911	0	3906	283	0
19	UP	495	0	561	52	0
20	UQ	6662	0	6588	419	0
21	UR	3799	0	3783	244	0
22	US	3622	0	3214	192	0
23	UT	17290	0	16616	943	0
24	UU	6678	0	6652	359	0
25	UV	8736	0	8850	471	0
26	UX	1395	0	1473	75	0
27	UZ	2006	0	2118	122	0
28	CD	2994	0	3018	168	0
29	CE	3325	0	3414	224	0
30	CF	931	0	983	48	0
30	CG	928	0	976	74	0
31	CH	3725	0	3746	224	0
32	CI	1530	0	1572	104	0
33	CJ	2296	0	2325	140	0
34	CK	1667	0	1701	105	0
35	CL	6332	0	6515	439	0
36	CM	2781	0	2878	146	0
37	CN	1893	0	1875	107	0
38	JC	2845	0	2761	239	0
39	JF	1701	0	1767	106	0
39	JG	1799	0	1872	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
40	JH	1295	0	570	4	0
41	JI	1314	0	610	0	0
42	JJ	1442	0	1513	74	0
43	JK	334	0	313	24	0
44	JM	1137	0	1188	57	0
45	JN	1428	0	1425	70	0
46	JO	1876	0	1968	86	0
47	JP	3765	0	3714	236	0
48	JQ	381	0	255	12	0
49	DE	1944	0	2030	126	0
50	DF	1669	0	1724	125	0
51	DG	1755	0	1846	122	0
52	DH	1481	0	1572	102	0
53	DI	1399	0	1431	96	0
54	DJ	1494	0	1573	69	0
55	DL	1129	0	1196	66	0
56	DN	1192	0	1255	88	0
57	DO	881	0	910	41	0
58	DQ	973	0	1029	71	0
59	DS	516	0	222	0	0
60	DW	1021	0	1060	75	0
61	DX	786	0	843	70	0
62	DY	1073	0	1132	66	0
63	Db	610	0	630	43	0
64	Dc	497	0	535	27	0
65	D2	9508	0	4781	408	0
66	D3	28287	0	14261	1187	0
67	D4	4869	0	2468	192	0
68	EA	366	0	184	1	0
69	EB	1475	0	658	13	0
70	EC	1204	0	530	9	0
71	ED	1571	0	699	12	0
72	EE	1107	0	499	6	0
73	EF	1326	0	580	6	0
74	EG	1058	0	478	3	0
75	EH	1170	0	528	8	0
76	EI	1440	0	648	7	0
77	EJ	1091	0	500	12	0
78	EK	4818	0	2108	34	0
79	EN	4767	0	2109	60	0
80	Db	1	0	0	0	0
80	EK	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
80	UX	1	0	0	0	0
81	CL	1	0	0	0	0
81	EK	1	0	0	0	0
81	UX	1	0	0	0	0
82	CL	32	0	12	2	0
All	All	256149	0	219010	11689	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 26.

All (11689) 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)
24:UU:228:GLY:CA	24:UU:246:ILE:O	1.81	1.28
11:UH:341:LEU:HA	11:UH:358:VAL:O	1.15	1.27
4:UA:77:GLY:HA3	4:UA:95:PHE:O	1.33	1.24
24:UU:228:GLY:HA3	24:UU:246:ILE:O	1.04	1.18
16:UM:30:LYS:HA	16:UM:45:LEU:O	1.42	1.18
78:EK:94:VAL:O	78:EK:98:ALA:HB3	1.44	1.16
7:UD:397:SER:O	7:UD:421:THR:HA	1.47	1.13
4:UA:482:SER:O	4:UA:486:SER:HA	1.60	1.01
79:EN:616:ILE:O	79:EN:618:VAL:N	1.93	1.01
11:UH:341:LEU:CA	11:UH:358:VAL:O	2.10	1.00
38:JC:189:ASN:O	38:JC:193:GLY:HA2	1.62	0.99
21:UR:382:GLY:CA	21:UR:400:ILE:O	2.12	0.98
15:UL:767:GLU:HB3	15:UL:771:ARG:HH12	1.30	0.97
30:CG:95:ARG:NH2	67:D4:253:G:N7	2.13	0.97
21:UR:382:GLY:HA3	21:UR:400:ILE:O	1.66	0.96
17:UN:295:VAL:HG21	47:JP:291:MET:HE1	1.48	0.96
66:D3:1061:A:H2'	66:D3:1062:A:H4'	1.46	0.96
35:CL:252:LEU:O	35:CL:268:LYS:HB3	1.66	0.95
26:UX:65:VAL:HG11	26:UX:86:MET:HE1	1.47	0.94
1:CB:308:PRO:HG3	14:UK:130:SER:H	1.32	0.94
64:Dc:18:ARG:NH2	66:D3:1618:C:OP2	2.00	0.94
35:CL:109:SER:O	35:CL:113:ARG:HB3	1.66	0.94
39:JF:99:LEU:O	39:JF:105:ASN:ND2	2.00	0.94
14:UK:111:ARG:HE	14:UK:212:LYS:HG2	1.30	0.94
31:CH:560:ARG:NH2	67:D4:249:G:N7	2.15	0.93
3:JA:122:CYS:HB2	3:JA:148:VAL:HG12	1.51	0.93
4:UA:434:ASN:HD21	4:UA:450:LEU:HD23	1.33	0.93
42:JJ:206:ALA:HA	42:JJ:213:LYS:HE3	1.49	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JN:306:LEU:HG	45:JN:308:ILE:HD11	1.51	0.93
47:JP:327:LYS:HG2	47:JP:350:HIS:H	1.34	0.93
20:UQ:302:SER:HG	20:UQ:344:CYS:HG	1.17	0.92
63:Db:36:LYS:HA	63:Db:42:ASN:O	1.70	0.92
78:EK:42:ARG:CB	78:EK:152:PHE:O	2.18	0.92
23:UT:296:GLU:HG2	23:UT:300:GLN:HE22	1.35	0.91
10:UG:140:ARG:HH11	13:UJ:20:LEU:HD21	1.34	0.91
20:UQ:36:ARG:NH1	20:UQ:91:ILE:O	2.04	0.91
4:UA:561:SER:HG	4:UA:577:SER:HG	1.08	0.91
78:EK:94:VAL:O	78:EK:98:ALA:CB	2.19	0.91
53:DI:105:ASP:HA	53:DI:164:ARG:HH22	1.33	0.91
51:DG:2:LYS:HB3	51:DG:108:VAL:HG12	1.53	0.91
1:CA:264:GLN:HA	1:CA:320:TYR:O	1.71	0.90
23:UT:870:LEU:HD11	23:UT:888:LEU:HB3	1.54	0.90
78:EK:617:PRO:HA	78:EK:648:SER:CB	2.02	0.90
33:CJ:116:ARG:NH1	66:D3:1581:C:OP1	2.05	0.90
65:D2:242:C:H2'	65:D2:243:A:H8	1.35	0.90
69:EB:166:ASP:CB	69:EB:182:ARG:CB	2.51	0.90
30:CG:42:LYS:NZ	67:D4:112:U:OP2	2.03	0.89
1:CB:306:LEU:HD11	1:CB:315:ILE:HG13	1.52	0.89
35:CL:72:VAL:HG12	35:CL:137:LEU:HB2	1.53	0.89
20:UQ:510:TYR:HH	20:UQ:527:HIS:HD1	1.17	0.89
35:CL:830:ARG:NH2	61:DX:138:GLU:OE2	2.06	0.89
45:JN:304:ARG:NH1	66:D3:1084:A:N7	2.20	0.89
15:UL:217:LEU:HB3	15:UL:229:TRP:HB2	1.52	0.89
29:CE:125:PRO:HA	29:CE:128:LEU:HD13	1.52	0.89
66:D3:390:G:H1	66:D3:407:A:H62	1.20	0.89
65:D2:470:U:H3	67:D4:48:A:H61	1.21	0.89
39:JG:112:VAL:HG23	39:JG:124:VAL:HB	1.53	0.88
1:CA:281:ASP:OD1	1:CA:282:ALA:N	2.07	0.88
4:UA:402:MET:HE3	4:UA:416:LEU:HD21	1.55	0.88
60:DW:82:LYS:HZ2	66:D3:748:U:H5"	1.38	0.88
6:UC:538:ARG:HH12	35:CL:912:ARG:NH1	1.72	0.88
1:CA:123:ILE:HG12	44:JM:152:ILE:HG22	1.56	0.88
7:UD:399:VAL:HB	7:UD:420:LEU:HB2	1.55	0.88
35:CL:92:ARG:HH21	35:CL:221:LEU:HD11	1.38	0.88
21:UR:295:ILE:HD11	21:UR:298:CYS:HB3	1.55	0.87
46:JO:58:ASN:HD22	65:D2:347:U:H5"	1.39	0.87
10:UG:265:GLU:OE1	17:UN:834:LYS:NZ	2.06	0.87
61:DX:63:GLN:NE2	66:D3:559:C:O2	2.07	0.87
7:UD:264:PHE:HB2	7:UD:274:GLN:HB2	1.56	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:UZ:129:TYR:HB2	27:UZ:153:MET:HE3	1.56	0.87
20:UQ:16:SER:HB2	20:UQ:783:LEU:HB2	1.57	0.87
5:UB:660:ILE:HG12	22:US:388:LEU:HD11	1.55	0.87
10:UG:132:GLY:HA3	10:UG:150:LEU:O	1.74	0.87
20:UQ:283:VAL:HG12	20:UQ:290:ILE:HG22	1.57	0.86
51:DG:21:GLU:OE1	51:DG:25:ARG:NH1	2.08	0.86
39:JF:144:LEU:HD13	39:JF:150:ILE:HG12	1.56	0.86
20:UQ:118:VAL:HB	20:UQ:130:LYS:HB2	1.57	0.86
66:D3:1697:G:H1	66:D3:1704:U:H3	1.21	0.86
11:UH:254:GLY:O	11:UH:258:PRO:HA	1.75	0.86
47:JP:393:LYS:NZ	67:D4:35:U:O2'	2.07	0.86
50:DF:148:ARG:O	64:Dc:22:ARG:NH1	2.08	0.86
13:UJ:166:ASN:OD1	29:CE:407:ARG:NH1	2.09	0.86
35:CL:45:ARG:NH1	66:D3:27:U:O2'	2.08	0.86
15:UL:357:THR:HG1	15:UL:361:THR:HG1	1.14	0.85
17:UN:294:GLU:OE2	47:JP:250:ARG:NH2	2.09	0.85
24:UU:35:ASN:HD22	24:UU:55:GLY:H	1.19	0.85
25:UV:182:ASP:HB2	25:UV:208:THR:HB	1.59	0.85
1:CA:155:ILE:HD11	1:CA:162:LEU:HD22	1.56	0.85
3:JA:860:PRO:HB3	3:JA:892:ARG:HH21	1.40	0.85
3:JA:612:ASP:O	3:JA:616:TRP:HB2	1.76	0.85
21:UR:181:GLU:OE1	24:UU:242:ARG:NH1	2.09	0.85
24:UU:289:ASN:O	24:UU:292:ARG:NH1	2.10	0.85
46:JO:127:LYS:NZ	66:D3:929:A:O2'	2.09	0.85
6:UC:599:LYS:NZ	66:D3:498:G:OP1	2.08	0.85
8:UE:513:LEU:HD11	18:UO:511:LEU:HG	1.59	0.85
30:CG:54:MET:HE1	30:CG:67:LEU:HD22	1.59	0.85
25:UV:528:ASP:HA	25:UV:614:ARG:HH21	1.42	0.84
46:JO:112:GLN:HB3	46:JO:174:MET:HE1	1.58	0.84
3:JA:75:ASN:HA	3:JA:78:LYS:HZ3	1.41	0.84
8:UE:88:TYR:HA	8:UE:95:VAL:HA	1.59	0.84
23:UT:1358:LYS:HD2	23:UT:1410:LEU:HD13	1.57	0.84
63:Db:40:CYS:SG	63:Db:59:CYS:HB3	2.17	0.84
17:UN:306:ARG:NH1	66:D3:-5:G:OP1	2.09	0.84
30:CF:84:ARG:HD2	30:CF:96:PRO:HB3	1.59	0.84
5:UB:678:PHE:O	5:UB:682:ARG:NH2	2.10	0.84
12:UI:502:ARG:HG2	18:UO:510:LEU:HD21	1.59	0.84
21:UR:426:VAL:HG22	21:UR:432:VAL:HG22	1.59	0.84
7:UD:92:GLU:HB2	7:UD:428:ILE:HD13	1.58	0.84
24:UU:343:LEU:HG	24:UU:344:ARG:H	1.41	0.84
37:CN:16:VAL:HB	37:CN:37:MET:HB2	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:JP:174:ARG:NH2	47:JP:206:VAL:O	2.10	0.84
13:UJ:278:ALA:HA	21:UR:208:LEU:HD21	1.60	0.84
16:UM:30:LYS:HD3	16:UM:46:THR:HB	1.57	0.84
18:UO:395:PHE:HE1	20:UQ:481:MET:HE1	1.42	0.84
33:CJ:149:PRO:HG2	33:CJ:170:VAL:HG11	1.59	0.84
15:UL:760:ILE:HG13	15:UL:831:LYS:HB3	1.59	0.83
26:UX:161:LYS:HG2	26:UX:172:LEU:HD21	1.58	0.83
1:CA:156:MET:SD	1:CA:309:TYR:OH	2.35	0.83
18:UO:192:LEU:HA	18:UO:209:LEU:O	1.77	0.83
56:DN:100:LYS:HG2	56:DN:104:ARG:HH22	1.43	0.83
4:UA:793:GLU:OE2	24:UU:721:LEU:N	2.12	0.83
24:UU:574:THR:OG1	24:UU:576:ARG:NH2	2.11	0.83
39:JF:55:ILE:O	39:JF:63:ASP:HA	1.79	0.83
58:DQ:42:GLU:HG2	58:DQ:45:ARG:HH21	1.42	0.83
52:DH:48:GLU:HG2	52:DH:88:ARG:HH22	1.44	0.83
25:UV:403:GLY:HA2	25:UV:410:LYS:HA	1.60	0.83
3:JA:89:ASN:HA	35:CL:95:LYS:HZ3	1.44	0.83
4:UA:482:SER:O	4:UA:486:SER:CA	2.27	0.83
1:CB:236:MET:HE3	29:CE:122:GLU:HB2	1.61	0.83
35:CL:78:PRO:HD3	35:CL:122:ALA:CB	2.09	0.83
3:JA:88:VAL:O	35:CL:95:LYS:NZ	2.12	0.82
21:UR:129:ASP:OD2	24:UU:192:ASN:ND2	2.13	0.82
21:UR:317:ARG:HH12	65:D2:233:G:H22	1.24	0.82
35:CL:831:ARG:NH1	35:CL:877:GLU:O	2.11	0.82
1:CA:103:GLU:OE2	6:UC:594:GLU:N	2.11	0.82
8:UE:253:LEU:HB3	8:UE:279:ILE:HB	1.60	0.82
13:UJ:1637:TYR:O	13:UJ:1643:ARG:NH2	2.12	0.82
26:UX:79:LYS:NZ	45:JN:308:ILE:O	2.12	0.82
30:CG:25:GLN:NE2	31:CH:323:ASP:OD2	2.12	0.82
4:UA:780:LYS:NZ	4:UA:819:THR:O	2.11	0.82
1:CB:251:ARG:NH2	7:UD:178:GLU:OE1	2.11	0.82
11:UH:558:CYS:H	11:UH:585:ARG:HH12	1.24	0.82
14:UK:150:LYS:NZ	65:D2:192:G:O2'	2.12	0.82
18:UO:453:VAL:HG23	18:UO:454:ARG:H	1.45	0.82
23:UT:1616:LEU:HD22	23:UT:1635:ILE:HD13	1.59	0.82
4:UA:73:ILE:HD12	4:UA:102:VAL:HG21	1.61	0.82
20:UQ:471:GLN:HE22	20:UQ:541:TRP:H	1.26	0.82
69:EB:301:ASN:O	78:EK:505:ALA:O	1.98	0.82
4:UA:650:ASN:ND2	4:UA:655:ASP:O	2.13	0.82
23:UT:13:ARG:NH1	62:DY:84:LYS:O	2.13	0.82
49:DE:178:GLY:O	49:DE:231:GLN:NE2	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:EK:930:VAL:O	78:EK:934:GLY:HA2	1.80	0.82
18:UO:279:GLY:HA3	18:UO:298:PHE:O	1.80	0.82
21:UR:535:ARG:NH2	65:D2:234:A:OP1	2.10	0.82
23:UT:1477:LYS:HE3	23:UT:1480:SER:HB3	1.60	0.82
35:CL:78:PRO:HD3	35:CL:122:ALA:HB1	1.62	0.82
35:CL:80:THR:HG23	35:CL:172:THR:HG21	1.59	0.82
19:UP:169:ASP:HB2	19:UP:180:LEU:HD23	1.62	0.81
33:CJ:193:ASN:HB3	33:CJ:226:ASN:HB3	1.61	0.81
39:JF:213:LYS:HZ2	39:JF:215:ASN:HB3	1.45	0.81
79:EN:616:ILE:C	79:EN:618:VAL:H	1.88	0.81
5:UB:444:ASN:H	5:UB:446:GLN:HE21	1.25	0.81
30:CG:95:ARG:HH11	31:CH:551:ARG:H	1.28	0.81
7:UD:306:GLN:HE22	7:UD:308:SER:HB3	1.45	0.81
9:UF:152:LYS:HD3	44:JM:65:LEU:HD11	1.62	0.81
13:UJ:122:VAL:HA	13:UJ:127:ILE:HG12	1.61	0.81
4:UA:581:THR:HG22	4:UA:596:GLY:HA2	1.61	0.81
1:CB:111:MET:HE1	1:CB:186:ASP:HA	1.62	0.81
24:UU:715:GLN:NE2	24:UU:717:ASP:O	2.12	0.81
38:JC:116:HIS:CE1	38:JC:124:GLN:HB2	2.15	0.81
1:CA:225:ARG:HH21	1:CA:246:GLN:HG2	1.45	0.81
4:UA:160:PHE:CE2	4:UA:183:ALA:HB3	2.16	0.81
35:CL:858:PRO:HA	35:CL:885:PHE:HB3	1.61	0.81
49:DE:212:ASP:O	49:DE:215:ASP:N	2.13	0.81
65:D2:2:U:HO2'	65:D2:69:U:HO2'	1.21	0.81
4:UA:563:ARG:HB2	4:UA:571:ALA:HB2	1.63	0.81
35:CL:295:ASP:OD1	35:CL:852:ARG:NH1	2.14	0.81
21:UR:285:VAL:HG12	21:UR:286:THR:HG23	1.63	0.81
15:UL:52:TRP:HB3	15:UL:59:LEU:HA	1.61	0.81
67:D4:63:C:H2'	67:D4:64:A:H8	1.46	0.81
6:UC:433:ARG:HD2	39:JF:231:PRO:HG2	1.61	0.80
8:UE:344:ASP:OD1	8:UE:345:LEU:N	2.14	0.80
29:CE:430:ASP:OD1	29:CE:431:ALA:N	2.14	0.80
33:CJ:7:ARG:NH1	33:CJ:11:GLU:OE2	2.12	0.80
39:JG:188:ARG:HE	39:JG:190:GLN:HB3	1.44	0.80
7:UD:97:ARG:HH12	19:UP:190:LEU:HD13	1.45	0.80
23:UT:54:TRP:HA	23:UT:57:ILE:HG22	1.64	0.80
23:UT:957:LYS:HG3	23:UT:959:PRO:HD2	1.60	0.80
55:DL:69:LYS:NZ	66:D3:304:U:O2	2.14	0.80
16:UM:414:VAL:HB	16:UM:428:ALA:HB3	1.63	0.80
13:UJ:246:LEU:O	13:UJ:285:ASN:ND2	2.14	0.80
28:CD:385:MET:HE1	30:CG:63:ILE:HB	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:707:PRO:O	23:UT:775:ARG:NH1	2.11	0.80
25:UV:698:ASN:H	25:UV:702:LYS:HZ3	1.29	0.80
35:CL:753:LEU:HG	35:CL:757:LYS:HZ3	1.47	0.80
13:UJ:231:LEU:HD13	13:UJ:268:LEU:HD21	1.63	0.80
14:UK:140:ARG:NH2	19:UP:168:LYS:O	2.15	0.80
16:UM:24:THR:HG21	16:UM:68:LYS:HD2	1.62	0.80
19:UP:204:ARG:HH21	65:D2:170:U:H4'	1.47	0.80
21:UR:382:GLY:HA2	21:UR:400:ILE:O	1.80	0.80
23:UT:1710:LEU:O	23:UT:1714:SER:HB3	1.82	0.80
23:UT:1738:TYR:HA	66:D3:803:A:H1'	1.64	0.80
13:UJ:286:LEU:HD21	13:UJ:292:LYS:HG3	1.63	0.80
22:US:179:GLU:OE2	22:US:183:LYS:NZ	2.14	0.80
23:UT:1425:VAL:HA	23:UT:1434:PHE:HB3	1.63	0.80
23:UT:1655:ARG:NH2	23:UT:1744:GLU:OE1	2.14	0.80
25:UV:626:LYS:HZ2	25:UV:628:VAL:H	1.25	0.80
35:CL:74:VAL:HG12	35:CL:119:GLU:HA	1.63	0.80
9:UF:66:LEU:HD22	21:UR:26:VAL:HG11	1.63	0.80
13:UJ:1749:ARG:NH2	23:UT:35:GLU:O	2.15	0.80
16:UM:128:VAL:HG13	16:UM:137:THR:HB	1.64	0.80
17:UN:886:LYS:NZ	65:D2:485:G:O2'	2.15	0.80
21:UR:137:ILE:O	21:UR:143:THR:OG1	2.00	0.79
15:UL:661:TRP:HE1	15:UL:677:HIS:HB2	1.46	0.79
20:UQ:368:ASP:HB3	20:UQ:389:LEU:HD22	1.62	0.79
23:UT:1099:LEU:HB2	23:UT:1142:VAL:HG22	1.64	0.79
30:CG:79:VAL:HG21	30:CG:121:ILE:HD12	1.62	0.79
3:JA:55:VAL:HG12	3:JA:121:MET:HB2	1.64	0.79
21:UR:181:GLU:HG3	24:UU:281:ARG:HH21	1.45	0.79
5:UB:762:GLU:OE1	34:CK:349:ARG:NH1	2.16	0.79
7:UD:271:THR:HG22	7:UD:272:LEU:H	1.45	0.79
66:D3:1175:U:O4	66:D3:1464:G:N2	2.16	0.79
23:UT:635:ALA:HB1	23:UT:676:PRO:HG2	1.63	0.79
38:JC:277:ILE:HG23	38:JC:288:LYS:HZ3	1.48	0.79
24:UU:361:SER:HA	24:UU:636:PRO:HG2	1.65	0.79
24:UU:592:ASP:OD1	24:UU:593:PHE:N	2.15	0.79
31:CH:447:SER:OG	31:CH:449:ASN:OD1	2.01	0.79
14:UK:154:THR:HG22	14:UK:167:THR:HA	1.63	0.79
32:CI:151:THR:OG1	34:CK:455:HIS:NE2	2.14	0.79
34:CK:480:GLN:HE22	34:CK:482:LEU:HB2	1.48	0.79
52:DH:61:PHE:HB3	52:DH:95:GLU:HG3	1.64	0.79
4:UA:300:MET:HG3	4:UA:328:LEU:HD22	1.65	0.79
13:UJ:349:THR:HG21	13:UJ:379:GLU:HG3	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:220:GLU:HA	23:UT:270:ARG:HH11	1.46	0.79
25:UV:1148:GLN:HA	25:UV:1151:LYS:HZ2	1.47	0.79
2:DA:146:GLN:NE2	66:D3:1065:A:N3	2.31	0.79
4:UA:296:GLN:OE1	4:UA:330:TYR:OH	2.01	0.79
22:US:291:THR:HB	22:US:294:LYS:HD3	1.64	0.79
24:UU:743:ARG:NH2	34:CK:480:GLN:O	2.16	0.79
35:CL:829:LEU:HD12	35:CL:915:ALA:HB1	1.65	0.79
35:CL:833:ARG:NH2	61:DX:141:GLU:OE2	2.16	0.79
43:JK:472:ILE:HA	43:JK:475:TYR:HB2	1.64	0.79
2:DA:189:ILE:HB	2:DA:190:PRO:HD3	1.63	0.79
10:UG:258:LEU:HB2	10:UG:268:VAL:HG12	1.65	0.79
20:UQ:408:THR:HG23	20:UQ:410:ASN:H	1.48	0.79
5:UB:475:ARG:HH21	22:US:511:SER:HA	1.48	0.78
11:UH:257:SER:O	11:UH:259:ILE:N	2.12	0.78
24:UU:309:ILE:HG12	24:UU:323:VAL:HG12	1.63	0.78
35:CL:862:THR:HG23	35:CL:872:LEU:HD11	1.64	0.78
38:JC:353:CYS:HB2	38:JC:356:LEU:HD13	1.64	0.78
30:CG:18:GLN:HE22	31:CH:400:GLY:HA2	1.46	0.78
32:CI:33:MET:HE1	32:CI:41:ARG:HA	1.64	0.78
35:CL:562:GLU:HG2	35:CL:565:ARG:HE	1.48	0.78
35:CL:754:GLN:HA	35:CL:757:LYS:HE2	1.64	0.78
11:UH:308:PHE:O	11:UH:310:MET:N	2.14	0.78
14:UK:111:ARG:HH11	14:UK:212:LYS:HE3	1.47	0.78
16:UM:294:LEU:HB2	16:UM:303:PHE:HB2	1.65	0.78
17:UN:329:ARG:NH2	17:UN:339:GLN:OE1	2.16	0.78
18:UO:5:ARG:HA	20:UQ:336:ARG:HH22	1.45	0.78
45:JN:209:ARG:NH1	45:JN:282:ASP:OD2	2.15	0.78
46:JO:138:PHE:HD1	46:JO:191:MET:HE1	1.48	0.78
14:UK:214:VAL:HA	14:UK:217:ARG:HD3	1.66	0.78
56:DN:112:LYS:NZ	66:D3:975:C:OP1	2.16	0.78
1:CB:99:ALA:O	1:CB:104:ASP:HA	1.83	0.78
27:UZ:227:SER:OG	27:UZ:228:LYS:NZ	2.16	0.78
7:UD:548:GLY:HA3	7:UD:566:LEU:O	1.83	0.78
16:UM:654:GLU:OE1	16:UM:658:LYS:NZ	2.17	0.78
21:UR:382:GLY:O	21:UR:399:LYS:HA	1.83	0.78
36:CM:200:VAL:HG12	36:CM:201:SER:H	1.46	0.78
47:JP:228:ASN:ND2	47:JP:230:ASN:O	2.17	0.78
4:UA:561:SER:OG	4:UA:577:SER:OG	1.97	0.78
13:UJ:661:ILE:HG22	13:UJ:663:SER:H	1.49	0.78
15:UL:123:ALA:HB3	15:UL:141:LYS:HD3	1.66	0.78
36:CM:246:VAL:O	36:CM:248:GLN:NE2	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DI:86:SER:O	66:D3:341:A:O2'	2.00	0.78
57:DO:41:ARG:HH22	66:D3:916:U:H3	1.31	0.78
7:UD:401:ILE:HD13	7:UD:418:CYS:HB2	1.64	0.78
14:UK:102:GLN:NE2	29:CE:335:ASP:OD1	2.15	0.78
20:UQ:510:TYR:OH	20:UQ:527:HIS:ND1	2.15	0.78
20:UQ:720:ILE:HD11	20:UQ:766:ILE:HG21	1.66	0.78
35:CL:91:ARG:HH22	35:CL:214:ARG:HE	1.30	0.78
36:CM:274:LYS:HD2	36:CM:278:GLN:HE22	1.49	0.78
39:JG:175:CYS:SG	39:JG:176:ARG:N	2.56	0.78
5:UB:649:THR:HG23	5:UB:650:VAL:HG23	1.66	0.78
7:UD:354:LYS:O	7:UD:374:THR:HA	1.84	0.78
23:UT:1658:LEU:HD13	23:UT:1661:ILE:HD11	1.65	0.78
23:UT:1671:VAL:HG22	23:UT:1713:SER:HB2	1.66	0.78
35:CL:133:LYS:O	35:CL:238:ARG:NH1	2.16	0.78
38:JC:317:ILE:HD12	38:JC:333:ASN:HB3	1.65	0.78
55:DL:56:LYS:NZ	66:D3:328:A:OP2	2.17	0.78
66:D3:396:G:N2	66:D3:399:A:OP2	2.17	0.78
66:D3:502:U:H2'	66:D3:503:G:H8	1.47	0.78
4:UA:730:LEU:HD21	4:UA:754:VAL:HG23	1.64	0.78
18:UO:384:ARG:NH1	65:D2:92:C:OP1	2.16	0.78
23:UT:1640:CYS:HB3	23:UT:1680:THR:HG21	1.63	0.78
31:CH:157:LEU:HD23	31:CH:191:SER:HB2	1.66	0.78
47:JP:21:GLU:HG2	67:D4:39:C:H5"	1.64	0.78
66:D3:956:C:H2'	66:D3:957:G:H8	1.49	0.78
4:UA:638:ALA:HB3	10:UG:149:PHE:CD1	2.18	0.77
35:CL:864:ASP:OD2	35:CL:868:ARG:NH1	2.16	0.77
55:DL:8:GLN:NE2	55:DL:12:ALA:O	2.16	0.77
65:D2:484:G:N2	65:D2:486:U:O2'	2.16	0.77
30:CF:44:LEU:HD21	30:CF:52:ILE:HD11	1.67	0.77
62:DY:113:ASN:ND2	66:D3:54:C:OP1	2.17	0.77
78:EK:136:CYS:HA	78:EK:145:PHE:CB	2.14	0.77
1:CA:253:ILE:O	1:CA:257:SER:OG	2.01	0.77
7:UD:37:ARG:HD2	7:UD:756:GLU:HB2	1.67	0.77
16:UM:42:ILE:HG23	16:UM:53:LEU:HB3	1.65	0.77
23:UT:367:ARG:HB2	23:UT:403:LEU:HD13	1.64	0.77
23:UT:482:ARG:HA	23:UT:485:ILE:HD12	1.66	0.77
5:UB:548:ARG:NH1	5:UB:638:ASN:OD1	2.18	0.77
8:UE:112:LEU:HD11	8:UE:131:LEU:HD11	1.65	0.77
38:JC:72:MET:HE1	38:JC:83:VAL:HG13	1.65	0.77
50:DF:76:ARG:CZ	58:DQ:122:ARG:HE	1.97	0.77
54:DJ:37:LYS:HE2	54:DJ:126:ARG:HH21	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:760:A:H3'	66:D3:761:G:H4'	1.67	0.77
67:D4:68:A:H2'	67:D4:69:A:H8	1.50	0.77
3:JA:160:GLN:HG3	3:JA:164:MET:HE1	1.66	0.77
10:UG:183:GLU:OE1	32:CI:41:ARG:NH2	2.17	0.77
17:UN:321:HIS:NE2	28:CD:93:LYS:O	2.17	0.77
23:UT:1680:THR:HG23	23:UT:1681:LEU:HD12	1.67	0.77
25:UV:373:ARG:HH22	25:UV:510:ILE:HG23	1.49	0.77
29:CE:176:GLU:HA	29:CE:179:THR:HG22	1.66	0.77
35:CL:628:VAL:HG23	35:CL:632:LYS:HZ3	1.50	0.77
10:UG:486:VAL:HG23	10:UG:523:GLU:HG2	1.65	0.77
20:UQ:658:GLU:OE1	20:UQ:675:ARG:NH2	2.14	0.77
66:D3:1472:C:O2	66:D3:1534:G:N2	2.17	0.77
12:UI:489:SER:O	12:UI:492:ILE:HG22	1.85	0.77
13:UJ:1746:ARG:NH1	23:UT:43:GLU:OE2	2.16	0.77
33:CJ:60:GLN:OE1	45:JN:207:ARG:NH1	2.17	0.77
66:D3:1584:G:N2	66:D3:1611:A:OP2	2.11	0.77
14:UK:231:LYS:NZ	65:D2:236:C:OP2	2.18	0.77
18:UO:496:HIS:HB3	18:UO:497:LYS:HZ2	1.49	0.77
24:UU:126:ASP:H	29:CE:433:THR:HG21	1.50	0.77
27:UZ:56:ILE:HA	27:UZ:188:SER:HA	1.67	0.77
47:JP:117:CYS:HB3	47:JP:137:LEU:HB2	1.66	0.77
62:DY:108:ARG:NH2	66:D3:457:G:OP1	2.18	0.77
64:Dc:7:VAL:HG12	64:Dc:57:MET:HE1	1.67	0.77
23:UT:718:PRO:HD3	23:UT:758:ILE:HG13	1.66	0.77
25:UV:534:GLY:H	25:UV:606:ASN:HB3	1.50	0.77
35:CL:1112:PHE:CG	44:JM:178:MET:HE1	2.20	0.77
37:CN:38:PHE:HB2	37:CN:56:VAL:HB	1.65	0.77
13:UJ:724:VAL:O	13:UJ:755:ARG:NH2	2.18	0.76
10:UG:213:TRP:HE1	10:UG:229:ARG:HG3	1.50	0.76
11:UH:645:ILE:HD11	11:UH:649:SER:HB3	1.66	0.76
15:UL:22:ASN:ND2	15:UL:85:LEU:O	2.18	0.76
15:UL:760:ILE:HG23	15:UL:834:LYS:HZ1	1.48	0.76
20:UQ:678:LEU:HB2	20:UQ:694:LEU:HD11	1.66	0.76
23:UT:428:GLN:HB2	23:UT:431:LYS:HB2	1.65	0.76
47:JP:183:GLN:N	47:JP:197:GLY:O	2.13	0.76
21:UR:242:ASN:ND2	21:UR:584:GLY:O	2.18	0.76
36:CM:208:MET:HE1	36:CM:241:TRP:CD1	2.20	0.76
50:DF:80:LYS:HB2	50:DF:83:ARG:HH21	1.48	0.76
39:JG:89:PRO:HG2	39:JG:134:PHE:HZ	1.51	0.76
64:Dc:11:LYS:NZ	64:Dc:51:ASN:OD1	2.19	0.76
66:D3:1593:A:N6	66:D3:1594:G:O6	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:UO:127:THR:HG22	18:UO:144:SER:HB2	1.68	0.76
3:JA:866:TYR:HA	3:JA:871:MET:HB2	1.68	0.76
36:CM:246:VAL:HG13	36:CM:248:GLN:HE21	1.50	0.76
3:JA:748:ARG:NH1	3:JA:750:THR:O	2.19	0.76
65:D2:194:G:N2	65:D2:203:C:O2	2.19	0.76
13:UJ:1613:MET:HG2	13:UJ:1619:ARG:HH12	1.49	0.76
20:UQ:474:THR:O	20:UQ:478:ASN:ND2	2.17	0.76
35:CL:794:GLU:HG3	35:CL:795:LYS:H	1.51	0.76
45:JN:224:HIS:O	45:JN:228:ILE:HG12	1.85	0.76
62:DY:93:ARG:NH2	66:D3:526:A:OP2	2.15	0.76
4:UA:538:GLN:NE2	4:UA:554:ASP:OD1	2.18	0.76
15:UL:919:GLU:OE2	42:JJ:264:ARG:NH1	2.18	0.76
20:UQ:335:PRO:HB3	65:D2:86:C:H1'	1.65	0.76
24:UU:242:ARG:HH22	24:UU:281:ARG:HG3	1.50	0.76
27:UZ:55:ARG:NH2	27:UZ:231:GLN:OE1	2.18	0.76
35:CL:1019:THR:HB	35:CL:1022:LEU:HD12	1.67	0.76
66:D3:1671:A:N6	66:D3:1730:A:O2'	2.18	0.76
4:UA:461:GLN:NE2	66:D3:1631:A:N1	2.34	0.76
5:UB:538:LYS:NZ	5:UB:621:THR:O	2.19	0.76
18:UO:386:ARG:NH2	65:D2:146:G:OP1	2.19	0.76
20:UQ:719:ASN:OD1	20:UQ:720:ILE:N	2.19	0.76
23:UT:1646:LYS:O	23:UT:1651:ARG:NH2	2.17	0.75
24:UU:499:LYS:NZ	50:DF:15:GLU:O	2.19	0.75
28:CD:265:GLU:HA	28:CD:268:MET:HE2	1.68	0.75
35:CL:151:GLU:HG3	35:CL:912:ARG:HH22	1.51	0.75
36:CM:52:PHE:HE1	36:CM:102:PRO:HG3	1.51	0.75
66:D3:274:G:N2	66:D3:282:C:O2	2.18	0.75
70:EC:15:ASP:CB	78:EK:40:TYR:CB	2.65	0.75
7:UD:561:LYS:HZ3	7:UD:563:LEU:HA	1.52	0.75
8:UE:542:ALA:HA	11:UH:677:ASN:ND2	2.01	0.75
13:UJ:262:VAL:HG21	20:UQ:892:MET:HE1	1.68	0.75
14:UK:7:ASP:O	14:UK:10:LYS:N	2.19	0.75
53:DI:164:ARG:HA	53:DI:164:ARG:NH2	2.00	0.75
58:DQ:122:ARG:NH1	66:D3:1584:G:O4'	2.18	0.75
5:UB:538:LYS:HE2	5:UB:625:GLU:HG3	1.67	0.75
9:UF:129:ILE:HD13	9:UF:153:TYR:HE2	1.51	0.75
20:UQ:657:SER:HB2	20:UQ:674:THR:HB	1.69	0.75
35:CL:291:ALA:HB1	35:CL:853:ARG:HH22	1.51	0.75
47:JP:94:TYR:HD2	47:JP:150:ILE:HG21	1.49	0.75
60:DW:15:ASN:HD21	60:DW:71:LYS:HG3	1.52	0.75
1:CB:202:ARG:HG3	1:CB:205:ARG:HH21	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UD:317:ASN:O	7:UD:319:ARG:NH2	2.20	0.75
8:UE:536:LEU:HD11	18:UO:453:VAL:HG12	1.69	0.75
24:UU:548:ALA:HB3	24:UU:561:ALA:HB3	1.69	0.75
54:DJ:127:VAL:O	54:DJ:131:GLN:HB2	1.86	0.75
2:DA:50:LYS:HD3	2:DA:52:THR:H	1.52	0.75
7:UD:265:TRP:HD1	7:UD:272:LEU:HA	1.51	0.75
13:UJ:745:TYR:HE2	13:UJ:747:GLN:HE21	1.33	0.75
16:UM:26:SER:OG	16:UM:28:ASN:OD1	2.05	0.75
29:CE:366:LYS:NZ	67:D4:82:G:OP1	2.14	0.75
66:D3:542:A:O2'	66:D3:543:C:O5'	2.05	0.75
66:D3:956:C:H2'	66:D3:957:G:C8	2.22	0.75
13:UJ:33:LEU:O	13:UJ:150:ARG:NH2	2.20	0.75
13:UJ:75:SER:HB2	21:UR:33:LEU:HD21	1.69	0.75
23:UT:1519:SER:O	23:UT:1523:TYR:HB2	1.86	0.75
45:JN:148:ASN:OD1	45:JN:149:LEU:N	2.18	0.75
1:CA:91:HIS:HB3	1:CA:96:VAL:HG23	1.68	0.75
30:CG:93:VAL:HG22	30:CG:94:SER:H	1.50	0.75
38:JC:136:ARG:NH1	66:D3:340:U:OP1	2.20	0.75
66:D3:1052:U:H2'	66:D3:1053:G:C8	2.22	0.75
21:UR:317:ARG:HH22	65:D2:233:G:H21	1.33	0.75
25:UV:855:LEU:HD12	25:UV:889:TYR:HD2	1.52	0.75
38:JC:4:LYS:N	38:JC:15:GLN:O	2.19	0.75
38:JC:71:CYS:HB3	38:JC:84:TYR:HB2	1.69	0.75
60:DW:111:MET:HE2	60:DW:116:ALA:HA	1.67	0.75
10:UG:213:TRP:CD1	10:UG:229:ARG:HA	2.20	0.75
13:UJ:231:LEU:HB3	13:UJ:268:LEU:HD11	1.69	0.75
23:UT:1397:ILE:O	23:UT:1401:ASN:ND2	2.19	0.75
36:CM:192:THR:HA	36:CM:224:ASN:O	1.86	0.75
45:JN:234:VAL:H	45:JN:239:ARG:HH11	1.31	0.75
66:D3:1603:U:H2'	66:D3:1604:U:H6	1.50	0.75
24:UU:62:ASP:OD1	24:UU:63:ALA:N	2.20	0.74
33:CJ:48:GLU:OE1	45:JN:224:HIS:N	2.18	0.74
36:CM:151:LEU:HD21	36:CM:166:VAL:HB	1.67	0.74
1:CB:117:VAL:HG23	1:CB:118:TYR:HD1	1.51	0.74
13:UJ:196:LEU:HD12	13:UJ:241:ILE:HD11	1.69	0.74
16:UM:30:LYS:CA	16:UM:45:LEU:O	2.30	0.74
18:UO:374:ILE:HG12	21:UR:289:HIS:HD2	1.52	0.74
24:UU:470:GLN:OE1	24:UU:553:ARG:NH1	2.20	0.74
29:CE:319:ILE:HD11	29:CE:337:PRO:HG2	1.69	0.74
35:CL:775:GLU:HA	35:CL:779:ARG:HH21	1.50	0.74
4:UA:471:GLY:O	4:UA:498:ARG:NH1	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:59:LEU:HD21	13:UJ:113:PRO:HB2	1.69	0.74
15:UL:574:LEU:HD12	15:UL:594:ASP:HB3	1.68	0.74
16:UM:407:SER:H	16:UM:437:VAL:HG23	1.52	0.74
35:CL:1042:MET:HG3	35:CL:1044:LEU:HD23	1.69	0.74
66:D3:1170:G:H1	66:D3:1469:A:H61	1.32	0.74
13:UJ:760:PHE:O	13:UJ:768:LYS:NZ	2.19	0.74
18:UO:360:MET:HE1	65:D2:234:A:C4	2.23	0.74
18:UO:390:ARG:O	18:UO:394:GLN:NE2	2.21	0.74
2:DA:117:TRP:HZ2	66:D3:934:C:H42	1.35	0.74
4:UA:587:PHE:HE2	4:UA:688:PRO:HA	1.51	0.74
6:UC:558:ASN:OD1	66:D3:592:A:N6	2.21	0.74
8:UE:534:SER:HA	8:UE:537:LEU:HD23	1.68	0.74
29:CE:354:LYS:NZ	67:D4:86:A:OP2	2.20	0.74
35:CL:977:LYS:NZ	66:D3:1598:U:OP2	2.18	0.74
39:JG:44:VAL:HG12	39:JG:113:TYR:HB2	1.69	0.74
10:UG:497:LEU:HD21	10:UG:519:GLN:HG2	1.69	0.74
10:UG:552:ARG:NH2	25:UV:791:LYS:O	2.20	0.74
16:UM:315:ASN:ND2	16:UM:317:GLU:OE2	2.20	0.74
16:UM:505:ILE:HD12	16:UM:517:ILE:HD11	1.68	0.74
16:UM:591:ILE:HG13	16:UM:601:ILE:HD13	1.69	0.74
29:CE:411:LYS:HE2	67:D4:68:A:H5"	1.68	0.74
66:D3:1041:G:N2	66:D3:1078:C:O2	2.19	0.74
78:EK:930:VAL:O	78:EK:934:GLY:N	2.19	0.74
4:UA:453:PHE:HB3	4:UA:475:PRO:HA	1.70	0.74
14:UK:180:ASN:ND2	48:JQ:125:ASN:O	2.21	0.74
56:DN:64:ARG:NH2	66:D3:861:U:OP2	2.20	0.74
15:UL:426:ARG:NH2	15:UL:459:LEU:O	2.21	0.74
22:US:342:TYR:HE2	22:US:378:SER:HB3	1.53	0.74
58:DQ:52:LEU:HD13	58:DQ:60:PHE:CD2	2.22	0.74
1:CA:186:ASP:OD1	1:CA:214:ARG:NH1	2.21	0.74
8:UE:551:ILE:HA	8:UE:554:PHE:CE1	2.23	0.74
13:UJ:556:LYS:O	13:UJ:592:ARG:NH2	2.21	0.74
14:UK:193:LYS:NZ	65:D2:428:A:OP2	2.20	0.74
25:UV:612:PHE:HD2	25:UV:614:ARG:HH22	1.34	0.74
33:CJ:14:TYR:OH	33:CJ:18:GLN:NE2	2.21	0.74
37:CN:147:LEU:HD11	37:CN:154:GLU:HB2	1.68	0.74
38:JC:65:SER:OG	38:JC:109:ASP:O	2.06	0.74
55:DL:57:LYS:O	55:DL:138:ASN:ND2	2.21	0.74
35:CL:1138:ARG:NH2	66:D3:492:A:N7	2.35	0.74
47:JP:338:HIS:NE2	66:D3:1:U:O2'	2.20	0.74
66:D3:5:U:O2	66:D3:7:G:N2	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:21:ASP:OD1	13:UJ:22:ARG:N	2.21	0.73
21:UR:240:ASP:HB2	21:UR:243:ALA:HB2	1.68	0.73
24:UU:60:ILE:HD13	24:UU:70:PHE:HB2	1.68	0.73
27:UZ:126:VAL:HG21	27:UZ:154:ILE:HG23	1.70	0.73
31:CH:72:GLU:HA	31:CH:75:LYS:HG2	1.69	0.73
31:CH:334:GLU:HG2	31:CH:351:ILE:HB	1.69	0.73
38:JC:248:SER:HA	38:JC:273:ASP:HA	1.68	0.73
78:EK:930:VAL:O	78:EK:934:GLY:CA	2.35	0.73
4:UA:262:LYS:H	4:UA:280:THR:HG22	1.53	0.73
9:UF:138:LYS:HZ2	28:CD:84:LEU:HG	1.51	0.73
11:UH:596:LYS:HE2	11:UH:644:SER:HA	1.70	0.73
4:UA:275:LEU:HD22	4:UA:289:LEU:HD22	1.70	0.73
8:UE:8:SER:OG	8:UE:293:ASN:ND2	2.22	0.73
15:UL:258:LYS:HB3	15:UL:275:GLN:HB3	1.69	0.73
23:UT:1912:ILE:HA	23:UT:1958:MET:HE1	1.70	0.73
35:CL:967:LYS:NZ	66:D3:557:G:OP1	2.20	0.73
49:DE:178:GLY:N	49:DE:195:ILE:O	2.19	0.73
56:DN:20:ARG:NH2	66:D3:861:U:O3'	2.18	0.73
10:UG:388:ASP:OD2	47:JP:5:THR:OG1	2.05	0.73
21:UR:278:ASP:OD2	21:UR:281:THR:OG1	2.05	0.73
22:US:146:LYS:HD2	22:US:149:ARG:HH12	1.53	0.73
35:CL:1142:LEU:HD21	66:D3:493:U:H5"	1.69	0.73
65:D2:468:A:H61	67:D4:49:C:H42	1.34	0.73
66:D3:162:A:H3'	66:D3:163:G:H21	1.52	0.73
32:CI:137:ARG:NH2	32:CI:139:GLY:O	2.22	0.73
56:DN:60:VAL:HG13	56:DN:66:ILE:HG13	1.70	0.73
11:UH:596:LYS:HZ3	11:UH:600:LYS:HD3	1.52	0.73
16:UM:797:ASP:OD1	24:UU:927:LYS:NZ	2.21	0.73
26:UX:63:TYR:HD2	26:UX:90:LEU:HD23	1.53	0.73
30:CF:46:ARG:NH1	67:D4:326:U:OP1	2.21	0.73
31:CH:62:LYS:HG2	31:CH:65:ARG:HH21	1.53	0.73
36:CM:192:THR:H	36:CM:248:GLN:HE22	1.34	0.73
38:JC:178:LEU:HD23	38:JC:183:VAL:HG22	1.70	0.73
52:DH:101:LYS:H	66:D3:639:U:H5	1.35	0.73
66:D3:1679:G:H2'	66:D3:1722:A:H61	1.52	0.73
4:UA:324:LEU:HD12	4:UA:342:GLN:HE21	1.53	0.73
13:UJ:1605:LEU:HA	13:UJ:1608:PHE:HD2	1.54	0.73
35:CL:1024:LYS:O	35:CL:1026:LYS:NZ	2.20	0.73
37:CN:219:ASN:ND2	66:D3:1057:U:H1'	2.03	0.73
38:JC:17:SER:HG	38:JC:340:THR:H	1.34	0.73
50:DF:100:ASN:HB3	50:DF:103:ASN:HB2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DN:136:PRO:HG2	56:DN:139:TRP:HB2	1.71	0.73
15:UL:557:VAL:HB	15:UL:567:LEU:HB3	1.71	0.73
18:UO:279:GLY:CA	18:UO:298:PHE:O	2.37	0.73
21:UR:382:GLY:HA3	21:UR:399:LYS:HG3	1.70	0.73
23:UT:367:ARG:NH1	23:UT:403:LEU:O	2.21	0.73
39:JF:52:THR:HG21	39:JF:146:HIS:HE1	1.53	0.73
66:D3:1666:U:H3	66:D3:1735:U:H3	1.37	0.73
67:D4:147:C:O2	67:D4:165:G:N2	2.18	0.73
5:UB:786:ASN:ND2	66:D3:1119:G:O4'	2.21	0.73
23:UT:673:ARG:HH22	23:UT:773:LEU:HB3	1.53	0.73
24:UU:579:ARG:NH1	24:UU:614:LEU:O	2.21	0.73
28:CD:30:ARG:HH22	47:JP:99:THR:C	1.97	0.73
31:CH:504:ASN:O	31:CH:506:ARG:NH1	2.22	0.73
34:CK:341:LEU:HD11	35:CL:956:MET:HB3	1.71	0.73
58:DQ:97:VAL:HG12	58:DQ:98:ASP:H	1.53	0.73
66:D3:1697:G:H2'	66:D3:1698:G:C8	2.23	0.73
1:CB:92:ARG:HG2	14:UK:170:GLN:HE22	1.54	0.73
1:CB:264:GLN:HG3	1:CB:321:MET:HG3	1.70	0.73
13:UJ:194:SER:HB2	24:UU:335:VAL:HG11	1.69	0.73
16:UM:736:LEU:HD22	16:UM:763:ILE:HD11	1.70	0.73
32:CI:42:GLU:O	32:CI:46:LYS:HG2	1.88	0.73
49:DE:176:ASP:HB2	49:DE:179:LYS:HE3	1.71	0.73
66:D3:105:A:H62	66:D3:308:C:H42	1.37	0.73
5:UB:647:ILE:HA	5:UB:651:TRP:HE3	1.53	0.72
7:UD:246:TYR:OH	7:UD:251:ASP:OD1	2.05	0.72
14:UK:95:GLN:OE1	14:UK:95:GLN:N	2.22	0.72
24:UU:176:TYR:OH	24:UU:219:ASP:OD1	2.03	0.72
30:CG:7:LYS:HG3	31:CH:463:GLN:NE2	2.04	0.72
34:CK:453:SER:O	34:CK:455:HIS:N	2.22	0.72
35:CL:931:LYS:NZ	66:D3:558:U:OP1	2.21	0.72
49:DE:162:ILE:HD13	49:DE:169:ILE:HD13	1.71	0.72
61:DX:109:ARG:HH12	61:DX:118:PRO:HA	1.54	0.72
4:UA:644:ILE:HG21	10:UG:131:LYS:HB3	1.71	0.72
20:UQ:406:MET:HE3	20:UQ:485:ARG:HD3	1.72	0.72
21:UR:352:GLN:NE2	21:UR:378:GLN:O	2.21	0.72
23:UT:440:ASP:HA	23:UT:449:ARG:HD2	1.71	0.72
60:DW:7:LEU:HA	60:DW:34:ILE:HD11	1.71	0.72
66:D3:377:G:H5"	66:D3:378:A:H5'	1.70	0.72
18:UO:356:ASN:OD1	18:UO:359:ARG:NH1	2.22	0.72
21:UR:249:SER:OG	21:UR:250:ALA:N	2.22	0.72
23:UT:265:LYS:HE3	23:UT:309:THR:HG23	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:1014:ASN:HD21	53:DI:114:GLU:HB3	1.55	0.72
23:UT:1298:LEU:HB3	23:UT:1301:ILE:HB	1.71	0.72
25:UV:628:VAL:HG12	25:UV:668:VAL:HG13	1.71	0.72
25:UV:949:PHE:O	25:UV:960:LYS:NZ	2.21	0.72
44:JM:213:ARG:NH1	66:D3:1491:U:OP2	2.16	0.72
45:JN:265:SER:O	45:JN:273:ARG:NH1	2.22	0.72
2:DA:141:ALA:HA	2:DA:209:ASN:O	1.89	0.72
6:UC:557:ASP:O	6:UC:560:ASN:O	2.08	0.72
9:UF:5:ARG:HH12	47:JP:26:ARG:HB2	1.53	0.72
16:UM:572:GLU:HG3	16:UM:573:GLY:H	1.55	0.72
18:UO:10:THR:HG23	18:UO:416:THR:HG21	1.71	0.72
25:UV:1159:ASN:ND2	25:UV:1200:LEU:O	2.22	0.72
34:CK:344:GLU:OE2	35:CL:960:ARG:NH2	2.22	0.72
39:JG:73:HIS:HB3	39:JG:76:LEU:HD21	1.70	0.72
58:DQ:122:ARG:NH2	66:D3:1583:A:O2'	2.22	0.72
22:US:155:LEU:HD11	22:US:177:ILE:HG12	1.72	0.72
22:US:217:GLY:HA2	22:US:220:LEU:HD13	1.72	0.72
23:UT:955:ASN:OD1	53:DI:111:GLN:NE2	2.22	0.72
65:D2:182:G:H1	65:D2:215:U:H3	1.36	0.72
3:JA:49:LEU:HD11	35:CL:304:LEU:HD23	1.71	0.72
3:JA:884:ILE:HD11	3:JA:902:LEU:HD11	1.70	0.72
4:UA:310:VAL:HG12	4:UA:317:LEU:HG	1.72	0.72
5:UB:484:ARG:NH1	5:UB:492:ALA:O	2.22	0.72
7:UD:550:VAL:HG22	7:UD:563:LEU:HD12	1.70	0.72
13:UJ:219:ASN:HD22	20:UQ:876:PHE:HE2	1.36	0.72
21:UR:165:ARG:HE	24:UU:218:LEU:HD23	1.53	0.72
21:UR:434:GLU:OE2	21:UR:445:ARG:NH2	2.23	0.72
23:UT:972:LEU:HD22	23:UT:997:MET:HE2	1.70	0.72
24:UU:589:THR:HG22	24:UU:605:LEU:HD22	1.71	0.72
33:CJ:99:ARG:HE	33:CJ:172:MET:HG3	1.54	0.72
63:Db:42:ASN:ND2	63:Db:58:SER:OG	2.23	0.72
7:UD:57:ILE:HA	7:UD:341:SER:HA	1.71	0.72
22:US:356:ALA:HB1	22:US:357:ARG:HH21	1.53	0.72
35:CL:933:LYS:NZ	66:D3:575:C:OP1	2.17	0.72
35:CL:1093:THR:OG1	65:D2:246:G:OP2	2.08	0.72
53:DI:24:LYS:NZ	66:D3:400:A:N7	2.37	0.72
66:D3:170:U:H3	66:D3:289:U:HO2'	1.32	0.72
25:UV:151:SER:O	25:UV:155:ASN:ND2	2.23	0.72
28:CD:301:PRO:HD2	28:CD:396:PRO:HG3	1.71	0.72
53:DI:105:ASP:HA	53:DI:164:ARG:NH2	2.05	0.72
57:DO:79:VAL:O	57:DO:113:GLY:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:DW:80:ASN:ND2	66:D3:747:C:O2'	2.23	0.72
67:D4:152:U:N3	67:D4:161:G:O6	2.15	0.72
4:UA:536:LYS:NZ	32:CI:181:ASP:O	2.23	0.72
10:UG:218:ASP:OD1	10:UG:219:VAL:N	2.22	0.72
13:UJ:408:ILE:HA	13:UJ:412:GLU:HB3	1.72	0.72
13:UJ:414:LEU:HA	13:UJ:417:LYS:HD2	1.70	0.72
20:UQ:403:ILE:HD11	20:UQ:414:ILE:HG13	1.72	0.72
22:US:356:ALA:HA	22:US:499:LEU:HD11	1.70	0.72
31:CH:467:LYS:HA	31:CH:470:LEU:HD23	1.70	0.72
50:DF:102:ARG:NH2	66:D3:1473:U:O2'	2.22	0.72
50:DF:165:LEU:HD23	64:Dc:47:PRO:HG2	1.70	0.72
1:CB:231:ARG:HA	1:CB:260:PHE:HZ	1.53	0.72
5:UB:749:LYS:NZ	66:D3:1175:U:OP2	2.18	0.72
7:UD:226:LEU:O	7:UD:227:HIS:ND1	2.23	0.72
15:UL:412:GLY:HA3	15:UL:430:CYS:H	1.55	0.72
20:UQ:690:ASN:ND2	20:UQ:749:ASP:O	2.23	0.72
23:UT:233:LEU:HB2	23:UT:274:LEU:HD11	1.71	0.72
23:UT:517:ASP:OD2	23:UT:715:TYR:OH	2.06	0.72
33:CJ:149:PRO:HD2	33:CJ:170:VAL:HG21	1.71	0.72
38:JC:331:THR:OG1	38:JC:339:HIS:O	2.06	0.72
39:JG:177:LYS:HB3	39:JG:221:VAL:HA	1.72	0.72
3:JA:515:LEU:HD11	3:JA:565:PHE:HB3	1.72	0.71
6:UC:521:ARG:NH1	66:D3:580:A:OP1	2.23	0.71
13:UJ:1455:LYS:HB3	13:UJ:1459:ARG:HH21	1.53	0.71
24:UU:343:LEU:HG	24:UU:344:ARG:N	2.05	0.71
24:UU:484:ILE:HD11	24:UU:505:VAL:HG11	1.71	0.71
35:CL:304:LEU:O	35:CL:788:TYR:HB3	1.88	0.71
39:JF:227:LEU:HD12	39:JF:240:LYS:HE2	1.71	0.71
52:DH:67:LEU:HD13	52:DH:94:ALA:HB2	1.72	0.71
53:DI:116:HIS:O	53:DI:146:ARG:NH1	2.23	0.71
66:D3:111:U:H2'	66:D3:112:A:H8	1.55	0.71
9:UF:205:LEU:HD11	44:JM:51:LYS:HD3	1.71	0.71
13:UJ:772:VAL:HG21	13:UJ:801:ILE:HG12	1.73	0.71
13:UJ:1397:GLN:HA	13:UJ:1400:ILE:HD12	1.72	0.71
15:UL:300:GLU:HA	15:UL:303:LEU:HD12	1.72	0.71
15:UL:558:PHE:HB3	15:UL:563:MET:HA	1.72	0.71
18:UO:51:HIS:O	18:UO:53:HIS:ND1	2.22	0.71
23:UT:552:LEU:HG	23:UT:556:ARG:HE	1.54	0.71
23:UT:1523:TYR:OH	23:UT:1551:LEU:O	2.07	0.71
35:CL:628:VAL:HG23	35:CL:632:LYS:NZ	2.05	0.71
38:JC:50:ILE:HG23	38:JC:53:PHE:HB2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DI:25:ARG:NH2	66:D3:386:G:OP1	2.23	0.71
66:D3:92:A:OP1	66:D3:398:G:N2	2.23	0.71
66:D3:188:A:OP2	66:D3:189:C:N4	2.22	0.71
5:UB:484:ARG:HB3	5:UB:492:ALA:HB1	1.72	0.71
7:UD:757:ARG:HG2	7:UD:759:PRO:HD3	1.72	0.71
31:CH:551:ARG:NH1	67:D4:253:G:OP2	2.23	0.71
35:CL:870:ARG:NH1	66:D3:574:G:OP1	2.18	0.71
50:DF:127:GLN:HG3	50:DF:128:ASN:H	1.55	0.71
3:JA:744:PRO:HA	3:JA:762:MET:HG2	1.72	0.71
10:UG:123:THR:O	10:UG:124:HIS:ND1	2.23	0.71
13:UJ:1586:LEU:HD23	13:UJ:1590:ILE:HG13	1.72	0.71
18:UO:114:ARG:NH2	66:D3:1532:U:OP2	2.22	0.71
29:CE:155:SER:OG	29:CE:157:ASP:OD1	2.08	0.71
31:CH:449:ASN:HA	31:CH:460:ARG:HD3	1.70	0.71
32:CI:137:ARG:HD3	32:CI:161:VAL:HG23	1.72	0.71
52:DH:9:LEU:HD13	52:DH:12:ALA:H	1.55	0.71
54:DJ:131:GLN:HE21	66:D3:513:U:H4'	1.56	0.71
66:D3:319:U:H4'	66:D3:323:A:C4	2.25	0.71
16:UM:211:LEU:HB2	16:UM:223:TRP:HB2	1.71	0.71
24:UU:594:SER:HB2	24:UU:599:TRP:HB2	1.72	0.71
29:CE:10:ALA:HB2	29:CE:136:LEU:HG	1.73	0.71
33:CJ:102:GLN:NE2	66:D3:1579:U:O2'	2.23	0.71
35:CL:889:LEU:HD22	35:CL:922:ILE:HB	1.72	0.71
51:DG:23:ARG:NH2	51:DG:41:VAL:O	2.23	0.71
52:DH:58:LEU:HB3	52:DH:88:ARG:HH21	1.53	0.71
7:UD:199:ASP:HA	7:UD:215:ALA:O	1.90	0.71
24:UU:327:SER:OG	24:UU:336:VAL:O	2.05	0.71
25:UV:396:LEU:HD21	25:UV:429:LEU:HD21	1.69	0.71
39:JF:91:ILE:HD13	39:JF:94:GLN:HE22	1.56	0.71
46:JO:134:ASN:HB3	46:JO:137:ARG:HB3	1.73	0.71
67:D4:16:A:H2'	67:D4:17:G:H8	1.56	0.71
4:UA:88:ASN:HD21	24:UU:659:GLN:HE21	1.37	0.71
16:UM:88:PHE:HA	16:UM:95:VAL:HA	1.72	0.71
16:UM:314:ILE:HG22	16:UM:329:VAL:HA	1.72	0.71
66:D3:627:C:N3	66:D3:972:G:N1	2.37	0.71
67:D4:63:C:H2'	67:D4:64:A:C8	2.25	0.71
3:JA:16:ASN:HD21	3:JA:218:PRO:HA	1.56	0.71
1:CB:323:SER:O	29:CE:118:ARG:NH1	2.24	0.71
8:UE:350:LEU:O	20:UQ:60:ARG:NH1	2.21	0.71
9:UF:193:ILE:HG23	9:UF:266:ARG:HD3	1.73	0.71
16:UM:346:VAL:HG23	16:UM:352:LYS:HB3	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:UR:141:ASN:HA	21:UR:144:LYS:HG2	1.72	0.71
21:UR:145:LYS:NZ	65:D2:309:A:O2'	2.24	0.71
54:DJ:6:ARG:HH21	66:D3:38:C:H4'	1.55	0.71
56:DN:46:THR:OG1	56:DN:86:GLU:OE1	2.07	0.71
1:CB:159:LEU:HD13	1:CB:162:LEU:HD12	1.73	0.71
8:UE:216:ASP:OD2	8:UE:219:SER:OG	2.08	0.71
21:UR:235:ILE:HD11	21:UR:589:TRP:HB3	1.72	0.71
23:UT:159:PHE:HB3	23:UT:199:LEU:HD21	1.73	0.71
30:CF:5:ASN:ND2	30:CF:56:ALA:O	2.23	0.71
37:CN:223:LEU:HA	37:CN:226:ILE:HD12	1.73	0.71
24:UU:595:PRO:HG2	24:UU:638:GLY:HA2	1.73	0.71
31:CH:159:CYS:SG	31:CH:523:LYS:NZ	2.64	0.71
33:CJ:249:GLU:OE2	33:CJ:253:ARG:NH1	2.24	0.71
53:DI:172:ARG:NH1	66:D3:330:G:OP2	2.23	0.71
55:DL:66:ILE:O	66:D3:246:G:N2	2.17	0.71
57:DO:51:ASP:OD2	57:DO:52:ARG:NH1	2.23	0.71
66:D3:1779:U:O2	66:D3:1782:A:N6	2.16	0.71
19:UP:194:LYS:HE3	19:UP:199:ILE:HD13	1.73	0.70
21:UR:247:SER:OG	21:UR:584:GLY:O	2.09	0.70
21:UR:430:GLY:HA2	21:UR:455:ILE:HD12	1.71	0.70
34:CK:343:GLU:CD	34:CK:344:GLU:H	1.98	0.70
66:D3:142:G:H22	66:D3:173:A:H2	1.37	0.70
8:UE:116:GLN:OE1	8:UE:128:GLN:NE2	2.24	0.70
15:UL:666:ALA:HB3	15:UL:670:GLY:H	1.55	0.70
16:UM:626:MET:HB3	16:UM:631:MET:HB3	1.71	0.70
23:UT:436:PHE:HA	23:UT:439:VAL:HG12	1.73	0.70
27:UZ:245:LYS:NZ	27:UZ:246:THR:O	2.20	0.70
31:CH:411:PHE:HA	31:CH:427:LEU:HD13	1.73	0.70
33:CJ:109:LEU:HD11	66:D3:1159:C:H41	1.56	0.70
33:CJ:170:VAL:HA	33:CJ:254:PHE:HB3	1.73	0.70
50:DF:145:ASP:OD1	50:DF:146:THR:N	2.20	0.70
51:DG:72:ARG:HH12	66:D3:419:G:H4'	1.55	0.70
65:D2:426:G:H21	65:D2:428:A:H8	1.38	0.70
66:D3:1072:C:N4	66:D3:1073:G:O6	2.25	0.70
3:JA:850:LEU:HD13	3:JA:854:VAL:HB	1.74	0.70
11:UH:314:LEU:HA	11:UH:321:ILE:HA	1.73	0.70
13:UJ:1458:PHE:HB2	13:UJ:1503:LEU:HD21	1.73	0.70
15:UL:536:CYS:HB3	15:UL:549:SER:HB3	1.73	0.70
20:UQ:90:LYS:NZ	20:UQ:144:VAL:O	2.22	0.70
20:UQ:469:ASN:ND2	20:UQ:539:THR:O	2.24	0.70
35:CL:137:LEU:HD23	35:CL:166:ARG:HB2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:D2:479:G:N2	67:D4:39:C:O2	2.20	0.70
66:D3:1033:C:H2'	66:D3:1034:C:H6	1.56	0.70
4:UA:155:SER:OG	4:UA:203:GLN:NE2	2.23	0.70
18:UO:398:SER:HB2	18:UO:434:ARG:HH22	1.56	0.70
22:US:180:PHE:O	22:US:184:TYR:HB2	1.91	0.70
24:UU:311:VAL:HG22	24:UU:321:GLU:HB3	1.71	0.70
35:CL:74:VAL:CG1	35:CL:119:GLU:HA	2.20	0.70
35:CL:184:ARG:NH2	66:D3:466:U:OP1	2.22	0.70
37:CN:169:VAL:O	37:CN:173:LYS:HB2	1.91	0.70
39:JF:46:ALA:HB3	39:JF:207:GLY:HA2	1.73	0.70
13:UJ:600:LEU:HD23	13:UJ:603:LYS:HE2	1.72	0.70
20:UQ:264:ILE:HA	20:UQ:271:LEU:HD13	1.74	0.70
20:UQ:581:GLY:HA2	20:UQ:602:PRO:HD2	1.72	0.70
23:UT:522:LEU:HA	23:UT:525:ILE:HG12	1.72	0.70
29:CE:225:GLU:HG2	29:CE:226:ILE:HD12	1.74	0.70
33:CJ:139:LEU:HB2	33:CJ:157:PHE:CE1	2.27	0.70
38:JC:138:PRO:HG2	43:JK:464:LEU:HB2	1.72	0.70
39:JF:180:LEU:HD13	39:JF:227:LEU:HD23	1.74	0.70
13:UJ:728:GLU:HB3	13:UJ:734:ILE:HD13	1.73	0.70
16:UM:542:CYS:O	16:UM:546:LYS:N	2.24	0.70
23:UT:1721:ILE:HG13	23:UT:1750:SER:HB2	1.74	0.70
35:CL:1154:LYS:NZ	67:D4:11:U:OP1	2.22	0.70
37:CN:105:SER:OG	37:CN:194:ARG:NH1	2.25	0.70
47:JP:224:SER:HB3	47:JP:238:THR:HG22	1.73	0.70
13:UJ:1525:GLU:HA	13:UJ:1528:VAL:HG22	1.74	0.70
13:UJ:1616:VAL:HA	13:UJ:1619:ARG:HD3	1.73	0.70
22:US:474:HIS:HD2	22:US:477:VAL:H	1.40	0.70
23:UT:1607:ILE:HA	23:UT:1610:MET:HE3	1.74	0.70
49:DE:151:ASP:OD1	51:DG:215:ARG:NH2	2.25	0.70
66:D3:164:A:H2'	66:D3:165:G:H8	1.54	0.70
1:CB:92:ARG:NH1	1:CB:160:ASP:O	2.24	0.70
9:UF:138:LYS:HZ3	28:CD:85:ASN:HA	1.57	0.70
14:UK:161:ARG:NE	14:UK:164:ASN:O	2.25	0.70
14:UK:217:ARG:NH2	65:D2:260:A:O4'	2.25	0.70
23:UT:84:ASP:HA	23:UT:87:ILE:HD12	1.74	0.70
38:JC:221:GLU:HG2	38:JC:253:TYR:HE2	1.57	0.70
47:JP:382:ARG:NH2	67:D4:34:A:OP1	2.23	0.70
50:DF:53:VAL:HG21	50:DF:59:VAL:HA	1.73	0.70
52:DH:144:VAL:HA	60:DW:42:GLN:HE21	1.55	0.70
4:UA:120:GLN:HG2	4:UA:141:VAL:HG22	1.72	0.70
5:UB:515:HIS:HB3	5:UB:518:ILE:HB	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:UG:430:VAL:HG21	32:CI:3:ARG:HE	1.57	0.70
15:UL:400:SER:HB2	15:UL:404:LYS:HB2	1.72	0.70
15:UL:802:GLU:OE1	15:UL:802:GLU:N	2.23	0.70
16:UM:537:TRP:CD1	16:UM:553:GLY:HA2	2.27	0.70
23:UT:1780:ARG:NH2	23:UT:1860:ASN:OD1	2.22	0.70
54:DJ:152:SER:OG	66:D3:766:U:O4	2.09	0.70
66:D3:901:G:N2	66:D3:901:G:OP2	2.24	0.70
10:UG:364:ARG:NH2	65:D2:316:U:OP1	2.25	0.70
21:UR:139:VAL:HG23	21:UR:140:THR:HG23	1.73	0.70
24:UU:638:GLY:O	24:UU:656:ASN:ND2	2.25	0.70
35:CL:52:ARG:NH2	66:D3:436:A:OP2	2.25	0.70
38:JC:322:HIS:ND1	38:JC:328:MET:O	2.23	0.70
46:JO:131:PHE:CD2	46:JO:192:LYS:HE3	2.26	0.70
51:DG:13:GLN:NE2	66:D3:151:G:N3	2.32	0.70
65:D2:238:G:N1	65:D2:240:C:O2	2.24	0.70
8:UE:506:LEU:HD13	18:UO:507:MET:HG2	1.71	0.69
18:UO:493:HIS:O	18:UO:497:LYS:NZ	2.24	0.69
21:UR:237:ARG:NH1	65:D2:279:A:OP2	2.25	0.69
24:UU:307:GLN:NE2	29:CE:422:THR:O	2.24	0.69
27:UZ:181:ARG:NH1	48:JQ:198:ASP:O	2.24	0.69
38:JC:4:LYS:HE2	38:JC:359:ILE:HG22	1.74	0.69
1:CB:205:ARG:HA	1:CB:208:ILE:HD12	1.73	0.69
7:UD:277:LYS:NZ	21:UR:347:GLY:O	2.25	0.69
13:UJ:652:MET:HG3	13:UJ:687:LEU:HD21	1.73	0.69
15:UL:161:SER:HB3	15:UL:189:TRP:HZ2	1.57	0.69
16:UM:578:VAL:HG13	16:UM:592:SER:HB2	1.74	0.69
23:UT:1560:ARG:NH2	23:UT:1622:GLY:O	2.23	0.69
23:UT:1989:ASP:O	23:UT:1996:GLN:NE2	2.24	0.69
28:CD:284:TYR:OH	29:CE:258:LEU:HD22	1.92	0.69
32:CI:75:GLU:HB2	32:CI:94:ILE:HD12	1.72	0.69
35:CL:1110:ARG:HE	65:D2:411:A:HO2'	1.39	0.69
45:JN:301:LYS:NZ	66:D3:1033:C:N3	2.39	0.69
51:DG:76:LEU:HD23	51:DG:76:LEU:H	1.57	0.69
66:D3:1614:A:N6	66:D3:1615:C:N3	2.40	0.69
67:D4:197:U:C5	67:D4:198:U:H5	2.10	0.69
6:UC:521:ARG:HH12	35:CL:1046:THR:HG23	1.58	0.69
10:UG:141:LYS:HB3	13:UJ:20:LEU:HD13	1.74	0.69
13:UJ:626:PHE:O	13:UJ:630:TYR:HB2	1.91	0.69
27:UZ:119:TYR:O	27:UZ:149:LYS:NZ	2.20	0.69
35:CL:1110:ARG:NH2	65:D2:411:A:O3'	2.24	0.69
50:DF:84:LYS:NZ	66:D3:1613:U:O5'	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UK:34:TYR:OH	35:CL:993:ASP:OD2	2.09	0.69
18:UO:226:ILE:HG12	18:UO:239:LEU:HD21	1.73	0.69
18:UO:440:GLU:O	18:UO:444:ASN:ND2	2.25	0.69
20:UQ:113:ASN:O	20:UQ:133:LYS:NZ	2.24	0.69
20:UQ:246:SER:OG	20:UQ:248:GLN:NE2	2.25	0.69
20:UQ:460:PHE:HA	20:UQ:467:GLN:HA	1.73	0.69
33:CJ:213:GLY:N	34:CK:381:LEU:O	2.26	0.69
45:JN:317:ASN:OD1	60:DW:4:SER:OG	2.09	0.69
47:JP:201:ILE:HG23	47:JP:215:LEU:HB2	1.74	0.69
66:D3:272:U:O2'	66:D3:273:G:O4'	2.11	0.69
66:D3:627:C:N4	66:D3:972:G:O6	2.19	0.69
4:UA:576:ARG:HB3	32:CI:142:LEU:HD21	1.74	0.69
10:UG:240:GLN:HB3	10:UG:247:MET:HE1	1.75	0.69
15:UL:806:MET:HG2	15:UL:835:PHE:HZ	1.57	0.69
20:UQ:443:ASN:O	20:UQ:447:LYS:N	2.25	0.69
23:UT:267:SER:OG	23:UT:313:ARG:NH1	2.25	0.69
23:UT:1903:LEU:HB3	23:UT:1914:THR:HG21	1.71	0.69
25:UV:1109:LYS:NZ	25:UV:1170:GLY:O	2.25	0.69
47:JP:263:ARG:NH1	47:JP:265:ASN:OD1	2.25	0.69
52:DH:34:LEU:HA	52:DH:37:GLU:HB2	1.74	0.69
8:UE:87:LEU:O	8:UE:96:THR:N	2.26	0.69
11:UH:643:ASP:OD1	12:UI:502:ARG:NH2	2.20	0.69
18:UO:177:ILE:HD12	18:UO:183:LEU:HB3	1.74	0.69
28:CD:261:GLN:NE2	28:CD:262:ASP:O	2.25	0.69
30:CG:20:ILE:HD11	30:CG:121:ILE:HD11	1.75	0.69
39:JF:112:VAL:HB	39:JF:124:VAL:HB	1.74	0.69
23:UT:969:SER:O	23:UT:972:LEU:C	2.36	0.69
24:UU:611:THR:HB	24:UU:621:ASP:HB3	1.75	0.69
27:UZ:178:ALA:HB2	48:JQ:199:GLU:HG3	1.75	0.69
35:CL:1052:SER:O	66:D3:575:C:N4	2.25	0.69
39:JG:121:LEU:HB2	39:JG:163:ILE:O	1.93	0.69
42:JJ:204:ARG:NH1	42:JJ:250:LEU:O	2.24	0.69
2:DA:68:VAL:HG11	2:DA:73:LEU:HD22	1.74	0.69
2:DA:175:GLU:OE2	2:DA:187:LYS:NZ	2.17	0.69
9:UF:342:TRP:CZ3	9:UF:362:THR:HB	2.28	0.69
15:UL:224:SER:OG	15:UL:252:SER:O	2.10	0.69
15:UL:333:ARG:NH1	15:UL:334:SER:O	2.26	0.69
16:UM:551:SER:HA	16:UM:557:VAL:HG22	1.74	0.69
18:UO:256:THR:HG21	18:UO:303:LEU:HD12	1.74	0.69
23:UT:1224:LEU:HD23	23:UT:1227:ILE:HD11	1.73	0.69
23:UT:1243:ILE:HA	23:UT:1246:ILE:HD12	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UU:91:TYR:CE2	24:UU:123:ILE:HD13	2.27	0.69
24:UU:91:TYR:HE2	24:UU:123:ILE:HD13	1.58	0.69
24:UU:569:VAL:HB	24:UU:579:ARG:HB2	1.75	0.69
28:CD:119:ILE:HD11	47:JP:155:TYR:HD1	1.56	0.69
30:CF:62:GLU:HA	30:CF:65:LEU:HB3	1.73	0.69
33:CJ:212:ALA:O	34:CK:383:ARG:NH2	2.26	0.69
35:CL:776:GLN:HA	35:CL:780:ILE:HG12	1.74	0.69
50:DF:200:ASN:HD21	50:DF:207:THR:HG23	1.57	0.69
53:DI:79:ALA:HB2	53:DI:164:ARG:HH11	1.57	0.69
55:DL:132:SER:HB2	55:DL:135:VAL:HG12	1.74	0.69
61:DX:95:PHE:HD2	61:DX:135:LEU:HD23	1.56	0.69
65:D2:323:A:H2'	65:D2:324:U:H4'	1.75	0.69
66:D3:1739:C:H2'	66:D3:1740:A:H8	1.58	0.69
5:UB:651:TRP:CD1	5:UB:660:ILE:HG21	2.28	0.69
6:UC:521:ARG:NH2	66:D3:579:A:O3'	2.25	0.69
14:UK:221:GLN:HA	14:UK:224:LEU:HD12	1.74	0.69
15:UL:147:VAL:O	15:UL:156:LEU:N	2.26	0.69
25:UV:469:ASP:O	25:UV:473:LYS:N	2.26	0.69
35:CL:52:ARG:HH12	66:D3:436:A:P	2.15	0.69
49:DE:38:LEU:HD12	49:DE:39:ARG:HG2	1.73	0.69
66:D3:231:U:O2'	66:D3:233:C:OP2	2.11	0.69
1:CA:297:ARG:HH11	1:CA:322:ARG:HG3	1.57	0.69
20:UQ:255:ASN:ND2	65:D2:81:A:OP1	2.26	0.69
20:UQ:433:ARG:HH22	20:UQ:703:LYS:HB2	1.58	0.69
24:UU:632:VAL:HG22	24:UU:643:THR:HG22	1.73	0.69
30:CF:13:ASP:OD1	30:CF:16:LEU:N	2.22	0.69
38:JC:333:ASN:ND2	38:JC:335:SER:OG	2.26	0.69
47:JP:248:ASP:OD1	47:JP:249:LEU:N	2.26	0.69
53:DI:5:ARG:HH12	66:D3:332:U:H1'	1.58	0.69
57:DO:22:SER:HB3	57:DO:25:ASP:H	1.57	0.69
6:UC:599:LYS:HD3	6:UC:602:LEU:HD12	1.74	0.68
7:UD:616:LYS:NZ	13:UJ:628:ASN:OD1	2.26	0.68
18:UO:280:HIS:HA	18:UO:296:TRP:O	1.93	0.68
21:UR:232:LYS:HD2	21:UR:554:ASN:HD22	1.55	0.68
23:UT:1801:ASN:ND2	66:D3:650:U:OP1	2.25	0.68
25:UV:525:LEU:HB2	25:UV:617:LEU:HB2	1.74	0.68
27:UZ:50:ARG:NH2	66:D3:1510:U:OP1	2.25	0.68
29:CE:28:LEU:HG	29:CE:33:ASP:HB2	1.74	0.68
66:D3:58:U:O2'	66:D3:451:A:N3	2.25	0.68
4:UA:524:ARG:NH2	4:UA:529:GLU:OE2	2.26	0.68
5:UB:426:THR:HG22	5:UB:462:LEU:HD22	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UD:378:TYR:OH	7:UD:632:ASN:ND2	2.26	0.68
11:UH:676:TRP:HB2	12:UI:486:LEU:HD13	1.74	0.68
13:UJ:82:ASP:OD1	13:UJ:83:ARG:N	2.26	0.68
18:UO:259:ASP:OD1	18:UO:260:TYR:N	2.27	0.68
20:UQ:225:ILE:O	20:UQ:238:SER:HA	1.93	0.68
24:UU:232:MET:HE3	24:UU:232:MET:HA	1.75	0.68
25:UV:158:VAL:HG21	25:UV:237:HIS:HB2	1.75	0.68
28:CD:182:ASP:OD2	28:CD:314:ARG:NH1	2.25	0.68
30:CG:7:LYS:H	31:CH:463:GLN:HE22	1.41	0.68
51:DG:160:ARG:NE	66:D3:66:U:O2	2.26	0.68
2:DA:214:LYS:NZ	66:D3:886:U:OP1	2.27	0.68
3:JA:841:ARG:HH12	3:JA:858:MET:HG2	1.58	0.68
13:UJ:364:ASN:OD1	13:UJ:365:ILE:HD12	1.92	0.68
15:UL:417:TRP:CD1	15:UL:424:CYS:HA	2.27	0.68
15:UL:767:GLU:HB3	15:UL:771:ARG:NH1	2.06	0.68
23:UT:616:PRO:HD2	23:UT:619:LEU:HD12	1.75	0.68
23:UT:1298:LEU:HD22	23:UT:1301:ILE:HD13	1.75	0.68
24:UU:208:GLN:NE2	24:UU:209:ILE:O	2.26	0.68
25:UV:268:LEU:HB2	25:UV:294:LEU:HB2	1.75	0.68
66:D3:75:U:N3	66:D3:76:A:N3	2.42	0.68
3:JA:569:PRO:HD3	3:JA:583:LEU:HG	1.74	0.68
3:JA:631:SER:O	3:JA:721:HIS:ND1	2.26	0.68
6:UC:439:ASP:OD1	39:JG:136:ARG:NH1	2.23	0.68
7:UD:187:GLU:OE1	30:CF:120:LYS:NZ	2.21	0.68
14:UK:14:ARG:HG2	14:UK:15:GLU:H	1.56	0.68
16:UM:535:GLY:O	16:UM:552:SER:OG	2.11	0.68
18:UO:248:ARG:NH2	18:UO:291:GLN:OE1	2.17	0.68
23:UT:408:VAL:O	23:UT:411:PHE:C	2.37	0.68
24:UU:342:TYR:HH	24:UU:345:SER:HG	1.34	0.68
27:UZ:209:ILE:HA	27:UZ:212:ILE:HD12	1.76	0.68
28:CD:196:LYS:NZ	28:CD:211:PRO:O	2.27	0.68
31:CH:166:VAL:H	31:CH:175:SER:HB2	1.57	0.68
32:CI:47:TYR:OH	32:CI:110:ARG:NH1	2.26	0.68
36:CM:231:ARG:NH1	66:D3:1132:A:O2'	2.27	0.68
38:JC:121:ARG:NH1	38:JC:137:ILE:O	2.26	0.68
51:DG:173:PRO:O	66:D3:78:A:O2'	2.10	0.68
56:DN:109:LYS:NZ	66:D3:976:G:OP1	2.27	0.68
9:UF:138:LYS:NZ	28:CD:84:LEU:HG	2.08	0.68
13:UJ:1748:VAL:HA	13:UJ:1752:LEU:HD23	1.74	0.68
16:UM:532:HIS:CD2	16:UM:533:LYS:H	2.11	0.68
20:UQ:147:SER:OG	20:UQ:148:GLU:OE2	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:167:VAL:HG22	23:UT:204:PRO:HD3	1.76	0.68
23:UT:1405:GLY:O	23:UT:1414:GLN:NE2	2.27	0.68
23:UT:1952:SER:HB2	23:UT:1995:ARG:HH21	1.58	0.68
25:UV:441:GLN:NE2	25:UV:442:PHE:O	2.26	0.68
29:CE:4:VAL:HG23	29:CE:88:ILE:HB	1.75	0.68
31:CH:367:LYS:HG3	31:CH:371:ARG:HD2	1.76	0.68
33:CJ:143:HIS:HB2	33:CJ:151:SER:HB3	1.75	0.68
35:CL:145:ASN:HA	35:CL:177:PHE:HE1	1.58	0.68
37:CN:4:GLU:HG2	37:CN:152:PRO:HG3	1.74	0.68
45:JN:271:GLN:HA	45:JN:290:SER:HB2	1.75	0.68
47:JP:298:LEU:O	47:JP:457:ARG:NH1	2.27	0.68
48:JQ:181:ASP:OD1	48:JQ:182:HIS:N	2.26	0.68
53:DI:98:LYS:NZ	66:D3:329:G:OP1	2.26	0.68
5:UB:781:MET:HE1	61:DX:68:ILE:HD11	1.74	0.68
7:UD:52:SER:HA	7:UD:104:TRP:HE3	1.56	0.68
7:UD:249:ARG:NH2	7:UD:293:ASN:OD1	2.27	0.68
16:UM:126:ILE:HD11	16:UM:140:PHE:HD1	1.58	0.68
18:UO:195:LEU:O	18:UO:206:ILE:N	2.27	0.68
18:UO:395:PHE:CE1	20:UQ:481:MET:HE1	2.27	0.68
35:CL:51:GLU:OE1	61:DX:46:SER:OG	2.07	0.68
51:DG:137:ARG:NH1	66:D3:144:U:O4	2.26	0.68
1:CB:159:LEU:HD11	1:CB:317:VAL:HG21	1.74	0.68
15:UL:661:TRP:NE1	15:UL:677:HIS:HB2	2.09	0.68
23:UT:538:LEU:HD21	23:UT:565:LEU:HD22	1.75	0.68
23:UT:1521:ASN:OD1	23:UT:1522:GLN:N	2.27	0.68
26:UX:19:THR:HG23	26:UX:20:LYS:HD3	1.76	0.68
28:CD:100:ILE:HD11	28:CD:105:LEU:HD23	1.76	0.68
44:JM:127:ARG:HA	44:JM:130:LEU:HD13	1.76	0.68
51:DG:202:ARG:NH1	66:D3:183:U:O2'	2.26	0.68
52:DH:7:LYS:O	52:DH:42:GLN:NE2	2.26	0.68
54:DJ:131:GLN:HE21	66:D3:513:U:C4'	2.06	0.68
66:D3:390:G:N2	66:D3:407:A:N7	2.40	0.68
66:D3:868:G:H2'	66:D3:869:A:H8	1.58	0.68
2:DA:122:GLU:OE2	2:DA:123:ALA:N	2.27	0.68
3:JA:547:LYS:NZ	3:JA:548:ASN:O	2.27	0.68
5:UB:498:LEU:HD11	5:UB:545:VAL:HG11	1.75	0.68
18:UO:91:SER:OG	18:UO:137:ASN:OD1	2.11	0.68
23:UT:1022:VAL:HG23	23:UT:1023:LEU:HD12	1.75	0.68
24:UU:488:ASN:ND2	58:DQ:98:ASP:OD2	2.27	0.68
26:UX:149:LYS:HD3	26:UX:170:ILE:HD11	1.74	0.68
30:CF:118:LYS:HA	30:CF:121:ILE:HG22	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:JG:31:LEU:HD12	39:JG:40:ARG:HH21	1.59	0.68
46:JO:195:HIS:HB3	46:JO:197:ILE:HG22	1.74	0.68
61:DX:86:PHE:CZ	61:DX:120:VAL:HG21	2.29	0.68
65:D2:174:U:H3	65:D2:222:G:H1	1.39	0.68
6:UC:599:LYS:NZ	44:JM:138:LYS:O	2.26	0.68
11:UH:673:THR:HG22	12:UI:490:GLU:HG3	1.75	0.68
15:UL:201:ILE:H	16:UM:660:LYS:HE2	1.59	0.68
16:UM:393:SER:HB3	16:UM:406:ALA:HB3	1.76	0.68
20:UQ:578:ASN:ND2	65:D2:7:A:N7	2.42	0.68
23:UT:1282:VAL:HG11	23:UT:1316:MET:HE3	1.74	0.68
25:UV:975:LEU:HB2	25:UV:1041:VAL:HG12	1.76	0.68
26:UX:84:ARG:NH2	60:DW:97:ARG:HH12	1.92	0.68
35:CL:558:ILE:HG23	35:CL:562:GLU:OE2	1.94	0.68
35:CL:1157:LYS:NZ	67:D4:13:C:OP2	2.27	0.68
4:UA:493:TRP:HA	4:UA:517:ASP:HB2	1.74	0.68
5:UB:716:LYS:HZ1	39:JG:153:VAL:HA	1.59	0.68
15:UL:344:THR:O	15:UL:352:GLU:HB2	1.93	0.68
15:UL:624:LEU:HD12	15:UL:629:ASN:HB2	1.76	0.68
22:US:381:LYS:HE3	22:US:461:SER:HB2	1.74	0.68
23:UT:1012:ARG:HB3	53:DI:116:HIS:HA	1.76	0.68
35:CL:137:LEU:HD21	35:CL:230:MET:HG2	1.76	0.68
52:DH:102:PRO:O	66:D3:810:G:N2	2.27	0.68
1:CA:102:LYS:O	44:JM:136:TYR:OH	2.11	0.67
15:UL:338:ILE:HA	15:UL:357:THR:HA	1.76	0.67
15:UL:364:TYR:HB3	15:UL:383:HIS:HB2	1.76	0.67
15:UL:941:THR:OG1	34:CK:464:SER:O	2.12	0.67
18:UO:51:HIS:HB3	18:UO:53:HIS:CE1	2.29	0.67
23:UT:1220:LEU:HD22	23:UT:1250:ILE:HD13	1.76	0.67
25:UV:793:PRO:HB3	37:CN:191:PHE:HE2	1.59	0.67
33:CJ:118:ASN:ND2	33:CJ:118:ASN:O	2.27	0.67
8:UE:443:GLN:NE2	18:UO:252:ASN:OD1	2.27	0.67
11:UH:31:VAL:HA	11:UH:355:LEU:H	1.58	0.67
23:UT:75:GLN:N	23:UT:79:GLN:OE1	2.26	0.67
23:UT:1932:GLU:HG3	23:UT:1933:ILE:HD12	1.74	0.67
25:UV:197:GLN:NE2	25:UV:200:GLY:O	2.27	0.67
29:CE:73:GLU:HA	29:CE:76:LEU:HG	1.75	0.67
33:CJ:138:ASP:OD2	33:CJ:156:HIS:ND1	2.26	0.67
66:D3:1697:G:N2	66:D3:1704:U:O2	2.28	0.67
67:D4:106:C:H42	67:D4:309:G:H1	1.42	0.67
3:JA:722:TYR:HA	3:JA:765:VAL:HG22	1.76	0.67
4:UA:130:ASP:OD1	4:UA:131:ARG:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:UB:434:ILE:O	5:UB:438:ASN:ND2	2.27	0.67
7:UD:102:LEU:HD22	7:UD:114:LEU:HD11	1.77	0.67
16:UM:439:ALA:HB3	16:UM:497:LEU:HD13	1.76	0.67
24:UU:207:ASP:OD1	24:UU:208:GLN:N	2.26	0.67
25:UV:751:LYS:HE2	25:UV:787:GLU:HA	1.74	0.67
26:UX:187:ASP:OD2	54:DJ:53:ARG:NH2	2.28	0.67
28:CD:377:ARG:NH2	67:D4:257:A:OP2	2.28	0.67
31:CH:317:ILE:HG12	31:CH:319:TYR:HE1	1.58	0.67
53:DI:99:ALA:H	53:DI:170:SER:HA	1.60	0.67
66:D3:23:G:H1	66:D3:603:U:H3	1.41	0.67
66:D3:851:U:H1'	66:D3:852:C:H5	1.58	0.67
9:UF:118:LYS:HG2	9:UF:153:TYR:CE1	2.29	0.67
10:UG:213:TRP:NE1	10:UG:229:ARG:HG3	2.09	0.67
12:UI:500:GLN:OE1	18:UO:503:ARG:NH1	2.27	0.67
14:UK:134:THR:HG22	19:UP:177:ARG:HB3	1.76	0.67
16:UM:728:ILE:O	16:UM:767:HIS:NE2	2.15	0.67
25:UV:761:ARG:HD3	25:UV:896:THR:HG22	1.75	0.67
29:CE:16:LYS:NZ	29:CE:18:SER:OG	2.28	0.67
29:CE:353:GLY:H	29:CE:356:LYS:HD3	1.59	0.67
35:CL:45:ARG:NH1	66:D3:28:A:O5'	2.27	0.67
35:CL:921:GLU:CD	36:CM:365:LYS:HD2	2.20	0.67
38:JC:23:ARG:HH21	38:JC:315:VAL:HG22	1.58	0.67
39:JG:73:HIS:O	39:JG:77:LEU:HB2	1.94	0.67
49:DE:87:MET:HE1	49:DE:123:LEU:H	1.59	0.67
66:D3:1512:G:H2'	66:D3:1513:G:C8	2.29	0.67
2:DA:62:LYS:NZ	2:DA:89:ASP:O	2.26	0.67
21:UR:400:ILE:HD13	21:UR:425:ALA:HB1	1.77	0.67
33:CJ:226:ASN:ND2	33:CJ:289:TYR:OH	2.28	0.67
4:UA:647:ALA:HB3	10:UG:171:LYS:HD2	1.76	0.67
9:UF:178:VAL:HG23	9:UF:181:LEU:HB3	1.75	0.67
13:UJ:1603:MET:HA	13:UJ:1606:LYS:HE2	1.77	0.67
23:UT:1678:MET:HE1	23:UT:1690:LEU:HD21	1.75	0.67
31:CH:200:ASP:HB2	31:CH:211:LEU:HD11	1.76	0.67
44:JM:50:SER:N	44:JM:53:GLN:OE1	2.28	0.67
46:JO:100:LEU:HD11	46:JO:113:ALA:HB1	1.75	0.67
53:DI:58:LEU:O	53:DI:59:ARG:NH1	2.26	0.67
54:DJ:37:LYS:NZ	66:D3:474:A:O2'	2.24	0.67
2:DA:33:LYS:HD2	2:DA:41:ARG:HB3	1.76	0.67
3:JA:163:THR:HG21	3:JA:172:TYR:HB2	1.75	0.67
7:UD:366:ASN:O	20:UQ:247:SER:OG	2.11	0.67
10:UG:69:GLU:HG3	10:UG:70:SER:H	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:UG:78:ASN:HD21	10:UG:80:LEU:HB3	1.60	0.67
10:UG:283:ASP:OD1	10:UG:288:TYR:N	2.27	0.67
13:UJ:128:HIS:HB2	13:UJ:155:ILE:HG12	1.77	0.67
16:UM:488:HIS:NE2	16:UM:490:HIS:O	2.28	0.67
29:CE:89:VAL:HG11	29:CE:95:ALA:HB2	1.76	0.67
30:CF:50:GLU:OE2	30:CF:118:LYS:NZ	2.22	0.67
30:CG:6:PRO:HB2	31:CH:465:GLN:HE21	1.59	0.67
53:DI:21:PHE:CD2	53:DI:22:ARG:HD3	2.30	0.67
66:D3:918:U:H2'	66:D3:919:A:C8	2.30	0.67
3:JA:587:GLN:HB3	3:JA:637:ARG:HB3	1.77	0.67
8:UE:212:LEU:HB2	8:UE:226:LEU:HB2	1.76	0.67
20:UQ:265:ASP:OD1	20:UQ:266:ASN:N	2.28	0.67
20:UQ:443:ASN:O	20:UQ:447:LYS:HA	1.95	0.67
20:UQ:779:ILE:HG13	20:UQ:780:GLU:H	1.59	0.67
24:UU:422:ALA:O	24:UU:423:ARG:NH1	2.26	0.67
35:CL:119:GLU:O	35:CL:119:GLU:HG2	1.94	0.67
35:CL:821:LYS:NZ	36:CM:79:GLY:O	2.28	0.67
49:DE:126:VAL:HB	49:DE:158:ASP:HB2	1.75	0.67
61:DX:95:PHE:CD2	61:DX:135:LEU:HD23	2.30	0.67
4:UA:151:SER:HB3	4:UA:164:THR:HB	1.76	0.67
1:CB:264:GLN:N	1:CB:320:TYR:O	2.28	0.67
23:UT:1811:ILE:HD11	23:UT:1875:LEU:HD21	1.77	0.67
25:UV:441:GLN:HE22	25:UV:470:LYS:H	1.42	0.67
25:UV:677:ILE:O	25:UV:681:ILE:HG13	1.95	0.67
35:CL:861:THR:O	35:CL:882:ASN:HB2	1.95	0.67
42:JJ:94:PHE:HA	42:JJ:141:THR:O	1.94	0.67
50:DF:37:GLN:HB3	58:DQ:53:LEU:HD22	1.75	0.67
56:DN:121:ARG:NH2	66:D3:867:G:O3'	2.28	0.67
61:DX:66:SER:H	61:DX:69:ARG:HB3	1.59	0.67
10:UG:140:ARG:HE	13:UJ:20:LEU:HD11	1.59	0.67
10:UG:329:LEU:HD22	10:UG:406:ALA:HB2	1.77	0.67
16:UM:642:GLN:HG3	16:UM:644:TRP:HE1	1.59	0.67
23:UT:256:SER:O	23:UT:260:HIS:ND1	2.28	0.67
30:CF:54:MET:HE1	30:CF:67:LEU:HB2	1.76	0.67
35:CL:289:HIS:HB2	35:CL:815:LEU:HD21	1.77	0.67
65:D2:336:G:N2	65:D2:389:U:O2	2.28	0.67
4:UA:743:PHE:HE2	4:UA:770:ILE:HD11	1.61	0.66
7:UD:413:ASN:HB3	7:UD:415:LYS:HZ3	1.60	0.66
7:UD:427:ASN:O	7:UD:444:ARG:NH2	2.27	0.66
18:UO:253:LYS:NZ	22:US:332:LEU:O	2.18	0.66
23:UT:1056:GLN:NE2	66:D3:200:A:OP2	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CH:317:ILE:HG12	31:CH:319:TYR:CE1	2.30	0.66
33:CJ:101:SER:O	33:CJ:116:ARG:NH2	2.27	0.66
37:CN:178:ASP:OD1	37:CN:179:TYR:N	2.28	0.66
38:JC:55:PHE:HD2	38:JC:58:ALA:H	1.40	0.66
39:JF:116:THR:HG22	39:JF:120:ILE:H	1.60	0.66
53:DI:67:TRP:HD1	53:DI:70:GLU:HB3	1.59	0.66
65:D2:193:G:H2'	65:D2:194:G:H8	1.60	0.66
5:UB:745:LYS:NZ	66:D3:1174:C:OP2	2.25	0.66
7:UD:450:VAL:HG13	7:UD:465:LEU:HB2	1.76	0.66
8:UE:111:ASP:OD2	8:UE:112:LEU:N	2.28	0.66
8:UE:148:LEU:HA	8:UE:167:SER:HB3	1.78	0.66
12:UI:435:LEU:HD22	12:UI:478:ASN:HD21	1.61	0.66
13:UJ:226:ASN:OD1	67:D4:333:U:O2'	2.08	0.66
13:UJ:658:ALA:HB2	13:UJ:670:LEU:HD22	1.77	0.66
13:UJ:696:LEU:O	13:UJ:699:ARG:NH1	2.28	0.66
21:UR:307:GLN:OE1	21:UR:472:GLN:NE2	2.28	0.66
23:UT:1957:GLN:NE2	23:UT:1995:ARG:O	2.28	0.66
24:UU:190:LEU:HD13	24:UU:200:PHE:HD2	1.61	0.66
25:UV:1100:VAL:HB	25:UV:1182:ILE:HB	1.77	0.66
31:CH:300:ALA:HB1	31:CH:324:ILE:HD12	1.78	0.66
38:JC:206:PHE:HB2	38:JC:216:SER:HB3	1.77	0.66
49:DE:72:VAL:N	49:DE:75:LYS:O	2.27	0.66
56:DN:18:TYR:HE2	60:DW:56:HIS:CD2	2.14	0.66
3:JA:497:ILE:HG13	3:JA:498:LYS:HD3	1.77	0.66
7:UD:343:GLY:O	7:UD:682:THR:OG1	2.13	0.66
10:UG:116:ILE:HG23	10:UG:125:LEU:HD11	1.77	0.66
13:UJ:111:LEU:O	13:UJ:114:THR:OG1	2.14	0.66
13:UJ:781:ASN:OD1	13:UJ:782:VAL:N	2.28	0.66
23:UT:1253:ASN:ND2	23:UT:1255:ASN:OD1	2.27	0.66
35:CL:145:ASN:ND2	35:CL:173:HIS:HB3	2.10	0.66
35:CL:819:GLU:O	35:CL:852:ARG:NH2	2.25	0.66
36:CM:146:VAL:HG12	36:CM:174:ILE:HD13	1.77	0.66
38:JC:156:GLY:HA3	38:JC:183:VAL:HG11	1.78	0.66
43:JK:485:TRP:HB2	43:JK:490:ILE:HD11	1.76	0.66
66:D3:1540:G:N2	66:D3:1571:C:O2	2.28	0.66
2:DA:241:GLY:HA3	25:UV:656:ARG:HB3	1.76	0.66
5:UB:701:ALA:HA	22:US:417:HIS:HB2	1.77	0.66
7:UD:87:GLN:HB3	7:UD:378:TYR:CD2	2.30	0.66
13:UJ:304:GLN:O	13:UJ:307:LYS:NZ	2.24	0.66
15:UL:209:GLY:H	15:UL:220:THR:HG22	1.60	0.66
20:UQ:108:THR:HG22	20:UQ:118:VAL:HG22	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:867:LYS:HG3	23:UT:892:LEU:HD13	1.76	0.66
24:UU:584:HIS:HE2	24:UU:602:SER:HG	1.42	0.66
31:CH:164:GLN:HE22	31:CH:528:GLU:HG2	1.59	0.66
65:D2:228:A:H2'	65:D2:229:A:C8	2.31	0.66
66:D3:323:A:O2'	66:D3:346:G:N2	2.29	0.66
66:D3:894:U:H2'	66:D3:895:G:H8	1.60	0.66
10:UG:67:LEU:HB3	10:UG:410:ASN:HD22	1.60	0.66
12:UI:435:LEU:HD21	12:UI:475:THR:HG22	1.78	0.66
18:UO:502:GLN:O	18:UO:505:GLU:HG2	1.95	0.66
23:UT:1228:LEU:HD12	23:UT:1271:LEU:HG	1.78	0.66
25:UV:1101:ASP:HB2	25:UV:1233:ASN:HB3	1.76	0.66
35:CL:830:ARG:HB2	35:CL:880:TYR:CD1	2.31	0.66
44:JM:184:ASN:HB3	44:JM:185:LYS:HZ2	1.59	0.66
47:JP:55:ALA:HA	47:JP:379:ALA:HB1	1.77	0.66
50:DF:225:ARG:NE	64:Dc:58:GLU:OE2	2.29	0.66
58:DQ:66:ARG:HD3	65:D2:267:U:O4	1.96	0.66
60:DW:114:GLU:OE1	60:DW:117:ARG:NH2	2.26	0.66
65:D2:89:C:H3'	65:D2:90:G:H5'	1.77	0.66
65:D2:361:G:N2	65:D2:364:A:OP2	2.28	0.66
66:D3:793:A:H2	66:D3:796:A:H3'	1.61	0.66
66:D3:1788:G:H2'	66:D3:1789:G:H8	1.60	0.66
10:UG:283:ASP:CG	10:UG:287:TYR:H	2.04	0.66
14:UK:64:TYR:O	14:UK:67:MET:HG3	1.96	0.66
14:UK:111:ARG:NE	14:UK:212:LYS:HG2	2.08	0.66
23:UT:276:SER:HB2	23:UT:320:THR:HG21	1.77	0.66
30:CG:8:ALA:HB3	31:CH:465:GLN:HE22	1.60	0.66
31:CH:141:LEU:HD13	31:CH:570:GLN:HB3	1.76	0.66
32:CI:62:SER:OG	33:CJ:57:ARG:NH1	2.28	0.66
45:JN:257:ALA:O	45:JN:260:GLY:O	2.14	0.66
55:DL:47:THR:HG23	55:DL:114:ALA:HB1	1.76	0.66
62:DY:124:ARG:NH2	66:D3:151:G:N7	2.43	0.66
4:UA:359:ARG:NH1	34:CK:484:MET:HB3	2.11	0.66
10:UG:531:HIS:CE1	65:D2:365:G:H4'	2.30	0.66
13:UJ:1667:VAL:HG13	13:UJ:1710:ALA:HA	1.77	0.66
13:UJ:1746:ARG:NH1	23:UT:40:ASP:O	2.28	0.66
15:UL:330:GLN:HE22	15:UL:367:ILE:HG21	1.61	0.66
20:UQ:90:LYS:NZ	20:UQ:143:ASN:OD1	2.29	0.66
34:CK:332:ALA:HA	34:CK:335:ARG:HH11	1.60	0.66
37:CN:18:PHE:HB2	37:CN:35:HIS:HB3	1.77	0.66
37:CN:46:ASN:ND2	37:CN:48:ASN:OD1	2.29	0.66
2:DA:199:ASN:HA	2:DA:202:LYS:HE3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UD:212:ILE:HB	7:UD:227:HIS:HB2	1.78	0.66
9:UF:297:ASP:HB3	9:UF:300:MET:HE2	1.78	0.66
11:UH:635:PHE:CD2	12:UI:492:ILE:HD11	2.30	0.66
13:UJ:1557:ASP:O	13:UJ:1571:ARG:NH1	2.29	0.66
22:US:281:LEU:HA	22:US:285:ILE:HB	1.76	0.66
22:US:399:ILE:HD11	22:US:480:LEU:HB3	1.75	0.66
23:UT:225:GLN:HG3	23:UT:228:LEU:H	1.60	0.66
24:UU:154:TYR:OH	24:UU:194:ARG:O	2.13	0.66
35:CL:775:GLU:OE1	35:CL:779:ARG:NH2	2.28	0.66
3:JA:742:PHE:HB3	3:JA:762:MET:SD	2.36	0.66
4:UA:148:ASP:OD1	4:UA:149:ILE:N	2.28	0.66
4:UA:791:HIS:O	4:UA:795:ASN:ND2	2.29	0.66
1:CB:124:SER:OG	1:CB:140:GLU:OE2	2.14	0.66
1:CB:251:ARG:NH2	7:UD:179:HIS:O	2.29	0.66
5:UB:662:LEU:O	5:UB:666:GLN:NE2	2.29	0.66
13:UJ:1606:LYS:HA	13:UJ:1609:ILE:HD12	1.77	0.66
20:UQ:141:LEU:HD21	20:UQ:144:VAL:HG23	1.78	0.66
20:UQ:426:ARG:NH2	65:D2:70:A:OP2	2.28	0.66
23:UT:30:PRO:HA	23:UT:33:ASN:HB2	1.76	0.66
25:UV:633:ALA:HA	25:UV:664:THR:HA	1.78	0.66
27:UZ:97:PHE:CZ	27:UZ:180:LEU:HD11	2.30	0.66
38:JC:357:ASP:OD1	38:JC:358:SER:N	2.29	0.66
46:JO:258:ARG:HG3	66:D3:629:U:H5"	1.77	0.66
49:DE:182:TYR:HB2	49:DE:228:ILE:HD11	1.77	0.66
63:Db:20:LYS:HZ3	66:D3:958:U:P	2.18	0.66
66:D3:29:U:H2'	66:D3:30:G:H8	1.59	0.66
4:UA:570:THR:HG22	4:UA:572:LYS:H	1.60	0.66
5:UB:482:GLN:HB2	5:UB:486:LYS:NZ	2.11	0.66
10:UG:77:GLU:OE1	47:JP:1:MET:N	2.26	0.66
12:UI:504:GLU:OE2	12:UI:507:ARG:NH2	2.29	0.66
15:UL:386:GLU:HB2	15:UL:391:ARG:HD3	1.78	0.66
20:UQ:710:LEU:HB3	20:UQ:722:LEU:HD22	1.78	0.66
23:UT:1632:LEU:HD23	23:UT:1633:PRO:HD3	1.78	0.66
24:UU:510:LEU:HD21	24:UU:514:ASN:HA	1.78	0.66
35:CL:125:LEU:HB3	35:CL:902:VAL:HG23	1.78	0.66
62:DY:102:LYS:NZ	66:D3:444:C:OP1	2.29	0.66
67:D4:197:U:H5	67:D4:198:U:H5	1.44	0.66
3:JA:540:LEU:HD23	3:JA:585:VAL:HG12	1.77	0.65
4:UA:329:VAL:HB	4:UA:339:LEU:HG	1.78	0.65
3:JB:591:GLU:O	3:JB:631:SER:HA	1.96	0.65
5:UB:576:ILE:HD13	5:UB:671:TYR:CE1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UC:544:ILE:O	35:CL:193:ARG:NH1	2.29	0.65
8:UE:151:LEU:HD11	8:UE:163:LEU:HD12	1.78	0.65
13:UJ:560:ILE:HG13	13:UJ:599:PHE:HB3	1.78	0.65
15:UL:867:GLU:OE1	64:Dc:39:THR:OG1	2.12	0.65
16:UM:173:LYS:HG3	16:UM:185:THR:HG22	1.78	0.65
23:UT:1340:SER:O	23:UT:1344:TRP:N	2.26	0.65
23:UT:1942:LEU:HD13	23:UT:1945:ILE:HD11	1.78	0.65
29:CE:164:ILE:HG22	29:CE:301:ALA:HA	1.78	0.65
38:JC:336:ILE:HB	38:JC:337:PRO:HD3	1.78	0.65
39:JF:197:ASP:HB2	39:JF:200:GLU:HB2	1.76	0.65
45:JN:234:VAL:H	45:JN:239:ARG:NH1	1.95	0.65
47:JP:296:ARG:HG3	47:JP:458:LYS:HG3	1.78	0.65
49:DE:197:HIS:NE2	49:DE:199:GLU:OE2	2.27	0.65
54:DJ:60:LEU:HD21	54:DJ:93:LEU:HB3	1.77	0.65
1:CA:231:ARG:NH1	28:CD:102:ASP:OD1	2.30	0.65
1:CB:236:MET:HE1	29:CE:118:ARG:HG3	1.77	0.65
7:UD:95:LYS:HE3	7:UD:426:GLN:HA	1.79	0.65
9:UF:83:LEU:HA	9:UF:86:TRP:HE1	1.61	0.65
9:UF:342:TRP:HZ2	9:UF:358:LEU:HB3	1.60	0.65
13:UJ:238:LEU:HD23	13:UJ:260:ILE:HD11	1.78	0.65
23:UT:261:GLU:O	23:UT:264:THR:OG1	2.12	0.65
23:UT:1112:TRP:HA	23:UT:1118:LEU:HB3	1.78	0.65
23:UT:1381:LYS:HB3	23:UT:1386:GLU:HG3	1.78	0.65
24:UU:45:GLY:HA2	65:D2:308:A:O2'	1.97	0.65
42:JJ:217:GLU:OE2	42:JJ:224:ILE:N	2.29	0.65
47:JP:443:ASN:OD1	47:JP:446:ARG:NH2	2.21	0.65
55:DL:72:THR:O	55:DL:88:ARG:NH2	2.24	0.65
66:D3:1505:A:C5	66:D3:1506:G:H1'	2.31	0.65
15:UL:299:ARG:HD3	15:UL:317:ILE:HG23	1.76	0.65
19:UP:194:LYS:HD2	19:UP:199:ILE:HG21	1.78	0.65
20:UQ:730:ASP:O	20:UQ:734:VAL:N	2.30	0.65
22:US:196:GLN:HE21	22:US:253:PHE:HE1	1.42	0.65
23:UT:1308:LEU:HD21	23:UT:1350:THR:HG21	1.79	0.65
51:DG:76:LEU:HB2	51:DG:92:ARG:HD3	1.78	0.65
51:DG:132:ARG:HH12	66:D3:150:U:H5'	1.61	0.65
52:DH:113:PRO:HB2	52:DH:116:ARG:H	1.61	0.65
52:DH:131:PHE:CD1	52:DH:132:PRO:HA	2.31	0.65
55:DL:129:ARG:NH1	66:D3:335:U:O2'	2.29	0.65
67:D4:16:A:H2'	67:D4:17:G:C8	2.31	0.65
3:JA:918:ARG:NH1	3:JA:921:SER:OG	2.30	0.65
4:UA:190:HIS:ND1	4:UA:210:SER:HB3	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:UG:483:ILE:HD11	10:UG:516:VAL:HA	1.79	0.65
13:UJ:1664:LYS:NZ	67:D4:145:U:OP2	2.30	0.65
25:UV:173:ASN:ND2	66:D3:1700:C:OP2	2.29	0.65
50:DF:99:MET:HE3	50:DF:100:ASN:N	2.12	0.65
50:DF:149:VAL:HA	64:Dc:22:ARG:HH12	1.62	0.65
54:DJ:135:ALA:HB2	54:DJ:140:ILE:HD13	1.77	0.65
56:DN:67:THR:HG23	56:DN:69:ASN:H	1.61	0.65
4:UA:397:LYS:O	4:UA:398:ARG:HD3	1.96	0.65
15:UL:49:VAL:HG12	15:UL:63:LEU:HB2	1.79	0.65
16:UM:107:ILE:HD11	16:UM:147:ILE:HG22	1.78	0.65
16:UM:599:ILE:HB	16:UM:613:LEU:HB2	1.77	0.65
20:UQ:250:GLN:N	20:UQ:250:GLN:OE1	2.29	0.65
21:UR:232:LYS:HD2	21:UR:554:ASN:ND2	2.11	0.65
23:UT:296:GLU:O	23:UT:300:GLN:NE2	2.29	0.65
24:UU:232:MET:HB2	24:UU:242:ARG:HB2	1.79	0.65
29:CE:158:LYS:HA	29:CE:283:ILE:HD13	1.78	0.65
29:CE:309:LEU:HG	29:CE:371:LEU:HD21	1.76	0.65
31:CH:455:THR:O	31:CH:460:ARG:NH2	2.29	0.65
36:CM:183:ILE:O	36:CM:312:ARG:NH1	2.29	0.65
47:JP:290:ASP:OD1	47:JP:291:MET:N	2.30	0.65
49:DE:38:LEU:HB3	66:D3:298:C:H5"	1.79	0.65
67:D4:202:G:H1	67:D4:247:U:H3	1.42	0.65
1:CA:111:MET:HE1	1:CA:190:PRO:HG3	1.79	0.65
7:UD:449:LYS:NZ	7:UD:450:VAL:O	2.30	0.65
13:UJ:1741:ASP:HB2	13:UJ:1744:ILE:HD12	1.76	0.65
15:UL:130:ASP:O	15:UL:134:THR:N	2.30	0.65
18:UO:82:ASP:OD1	18:UO:83:VAL:N	2.30	0.65
22:US:286:ILE:HA	22:US:289:PHE:HB2	1.78	0.65
23:UT:1915:LEU:HD12	23:UT:1958:MET:HE3	1.78	0.65
33:CJ:245:VAL:HG11	34:CK:373:ILE:HG21	1.77	0.65
35:CL:187:LYS:HG3	35:CL:206:TYR:CE1	2.31	0.65
53:DI:21:PHE:HD2	53:DI:22:ARG:HD3	1.60	0.65
54:DJ:59:LEU:HD21	54:DJ:72:GLU:HG2	1.78	0.65
56:DN:121:ARG:NH1	66:D3:868:G:OP1	2.27	0.65
61:DX:130:VAL:HG13	61:DX:135:LEU:HD11	1.77	0.65
65:D2:21:A:H2'	65:D2:22:A:H8	1.62	0.65
66:D3:641:G:N2	66:D3:693:U:O2	2.22	0.65
2:DA:134:VAL:HG13	2:DA:218:LEU:HB2	1.76	0.65
5:UB:433:ILE:HG12	5:UB:455:LEU:HD13	1.78	0.65
8:UE:215:TYR:HD1	8:UE:222:THR:HA	1.60	0.65
10:UG:333:SER:HB2	10:UG:378:VAL:HG11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:UG:431:ARG:NH2	67:D4:37:G:N3	2.45	0.65
13:UJ:255:ILE:HD11	20:UQ:884:MET:HG2	1.77	0.65
24:UU:366:MET:O	24:UU:377:SER:HA	1.97	0.65
33:CJ:181:ASN:OD1	33:CJ:182:GLN:N	2.30	0.65
35:CL:93:MET:HE1	35:CL:227:ILE:HD11	1.79	0.65
60:DW:82:LYS:NZ	66:D3:749:U:OP2	2.25	0.65
65:D2:409:C:H2'	65:D2:410:A:C8	2.32	0.65
66:D3:54:C:O2	66:D3:426:G:N2	2.17	0.65
66:D3:1073:G:H2'	66:D3:1074:G:H8	1.60	0.65
3:JA:91:MET:SD	3:JA:91:MET:N	2.69	0.65
4:UA:373:ASP:OD1	4:UA:374:ILE:N	2.28	0.65
5:UB:620:SER:O	5:UB:624:THR:OG1	2.15	0.65
9:UF:16:ASP:OD2	10:UG:15:ARG:NH1	2.28	0.65
11:UH:254:GLY:O	11:UH:258:PRO:CA	2.43	0.65
14:UK:165:ARG:HH12	19:UP:176:PHE:HZ	1.45	0.65
15:UL:341:ALA:HB1	15:UL:353:LEU:HD11	1.78	0.65
15:UL:439:LEU:HD12	15:UL:440:PRO:HD2	1.79	0.65
23:UT:56:GLU:O	62:DY:21:LYS:NZ	2.28	0.65
23:UT:605:LYS:HD2	23:UT:623:MET:HE1	1.78	0.65
23:UT:1952:SER:HB2	23:UT:1995:ARG:HD2	1.78	0.65
25:UV:1186:ILE:O	25:UV:1191:LYS:NZ	2.29	0.65
27:UZ:84:ARG:NH2	66:D3:1478:G:H4'	2.12	0.65
30:CF:115:TYR:HA	30:CF:118:LYS:HG2	1.77	0.65
31:CH:164:GLN:NE2	31:CH:528:GLU:O	2.30	0.65
33:CJ:150:THR:HA	33:CJ:167:LEU:O	1.97	0.65
33:CJ:290:LEU:HD11	66:D3:563:U:H5'	1.78	0.65
47:JP:180:SER:OG	52:DH:147:ASN:ND2	2.30	0.65
3:JA:9:ARG:NH1	3:JA:216:VAL:O	2.29	0.65
4:UA:420:ARG:HA	34:CK:468:ARG:HH12	1.62	0.65
1:CB:166:PRO:HA	1:CB:188:VAL:HA	1.79	0.65
1:CB:237:VAL:HG12	1:CB:260:PHE:HB3	1.78	0.65
13:UJ:219:ASN:OD1	20:UQ:872:PHE:HB2	1.97	0.65
13:UJ:1555:ALA:O	13:UJ:1571:ARG:NH1	2.30	0.65
16:UM:30:LYS:HA	16:UM:45:LEU:C	2.20	0.65
18:UO:34:GLN:HB2	18:UO:71:ARG:HH21	1.60	0.65
35:CL:616:ASP:OD1	35:CL:617:THR:N	2.30	0.65
51:DG:137:ARG:HH22	66:D3:144:U:H5	1.45	0.65
66:D3:161:U:H2'	66:D3:162:A:H8	1.62	0.65
66:D3:1050:G:N2	66:D3:1051:G:N3	2.44	0.65
1:CA:122:ARG:HD2	1:CA:140:GLU:OE2	1.96	0.65
4:UA:491:ALA:HB1	4:UA:518:VAL:HG23	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UD:596:MET:HE1	7:UD:598:LEU:HD22	1.80	0.65
9:UF:31:LEU:HD11	21:UR:27:PHE:CD1	2.32	0.65
10:UG:67:LEU:HB3	10:UG:410:ASN:ND2	2.12	0.65
11:UH:313:LYS:O	11:UH:322:SER:N	2.30	0.65
12:UI:447:ASN:ND2	12:UI:449:GLU:OE2	2.30	0.65
13:UJ:258:HIS:HB3	13:UJ:298:THR:HG21	1.78	0.65
14:UK:249:LYS:HD3	67:D4:328:A:H3'	1.77	0.65
23:UT:438:GLU:HA	23:UT:764:ARG:HH22	1.62	0.65
23:UT:798:PRO:O	23:UT:802:ASN:ND2	2.30	0.65
23:UT:1662:SER:O	23:UT:1665:LEU:C	2.39	0.65
24:UU:583:GLY:HA3	24:UU:610:ARG:HH12	1.62	0.65
33:CJ:92:THR:HG21	33:CJ:96:PRO:HB3	1.77	0.65
35:CL:124:ASP:OD1	35:CL:126:ASN:ND2	2.29	0.65
35:CL:873:LYS:NZ	66:D3:574:G:OP2	2.30	0.65
39:JG:88:ARG:HD2	39:JG:91:ILE:HG23	1.79	0.65
42:JJ:210:GLY:HA2	42:JJ:213:LYS:HD2	1.79	0.65
50:DF:81:ARG:NH1	66:D3:1616:G:OP1	2.29	0.65
50:DF:165:LEU:O	50:DF:169:ASN:ND2	2.30	0.65
50:DF:225:ARG:HB3	64:Dc:61:ARG:HH22	1.61	0.65
4:UA:80:ILE:HD11	4:UA:89:VAL:HG22	1.78	0.64
4:UA:633:LYS:HE2	65:D2:293:U:H5	1.62	0.64
1:CB:91:HIS:HE1	14:UK:164:ASN:HA	1.61	0.64
1:CB:212:LYS:NZ	28:CD:259:MET:O	2.26	0.64
5:UB:703:GLN:HB3	22:US:417:HIS:CE1	2.32	0.64
8:UE:89:SER:OG	8:UE:92:ALA:O	2.13	0.64
13:UJ:137:LEU:HD11	13:UJ:191:LEU:HD21	1.78	0.64
18:UO:5:ARG:HH12	65:D2:87:C:P	2.19	0.64
18:UO:278:ASP:OD1	22:US:331:ASN:ND2	2.30	0.64
23:UT:251:ALA:HA	23:UT:254:ILE:HD12	1.78	0.64
27:UZ:54:PRO:HG3	27:UZ:152:TYR:HA	1.79	0.64
32:CI:104:SER:OG	65:D2:393:C:OP2	2.14	0.64
39:JF:123:GLU:HB3	39:JF:161:LYS:HB3	1.79	0.64
66:D3:329:G:H2'	66:D3:330:G:C8	2.33	0.64
66:D3:683:C:H2'	66:D3:684:A:H8	1.61	0.64
66:D3:1151:A:H2'	66:D3:1152:A:H8	1.62	0.64
10:UG:214:LEU:HD21	10:UG:216:TYR:HE1	1.63	0.64
24:UU:738:ASP:OD1	42:JJ:269:ARG:NH2	2.31	0.64
25:UV:906:TYR:HE1	25:UV:950:ILE:HD11	1.62	0.64
26:UX:91:LEU:HD22	54:DJ:54:ARG:HH11	1.62	0.64
32:CI:54:ILE:HD13	32:CI:82:LEU:HD21	1.79	0.64
32:CI:131:ILE:HG12	32:CI:136:VAL:HG11	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CK:514:ALA:O	34:CK:515:MET:HE2	1.97	0.64
35:CL:177:PHE:HD2	35:CL:183:LEU:HA	1.61	0.64
44:JM:50:SER:OG	44:JM:51:LYS:N	2.26	0.64
49:DE:184:THR:N	49:DE:224:ASN:O	2.21	0.64
52:DH:80:GLU:HA	52:DH:83:LYS:HD2	1.80	0.64
60:DW:24:GLN:NE2	63:Db:6:ASP:OD1	2.31	0.64
3:JA:827:ARG:HG2	3:JA:830:LEU:HD12	1.79	0.64
10:UG:162:ASN:ND2	10:UG:429:GLU:OE1	2.30	0.64
23:UT:365:PHE:O	23:UT:369:SER:HB3	1.96	0.64
23:UT:1211:ILE:HD12	23:UT:1216:VAL:HG21	1.79	0.64
24:UU:717:ASP:OD1	24:UU:718:LYS:N	2.30	0.64
30:CF:33:LEU:HD11	30:CF:100:ALA:HB1	1.79	0.64
33:CJ:103:PHE:HA	33:CJ:172:MET:HE1	1.78	0.64
36:CM:107:ALA:HB1	36:CM:170:VAL:HG11	1.79	0.64
51:DG:52:ILE:HA	51:DG:111:LEU:HD13	1.79	0.64
65:D2:398:A:H2	65:D2:460:U:C2	2.14	0.64
10:UG:123:THR:OG1	10:UG:140:ARG:NH1	2.30	0.64
13:UJ:214:THR:O	13:UJ:218:ILE:HG12	1.97	0.64
14:UK:40:ASP:HA	14:UK:43:ARG:HE	1.62	0.64
18:UO:75:LYS:NZ	18:UO:111:TYR:O	2.25	0.64
24:UU:511:ASP:OD1	24:UU:512:GLY:N	2.30	0.64
24:UU:552:HIS:HD2	24:UU:555:SER:H	1.44	0.64
28:CD:237:LEU:HD22	28:CD:248:ALA:HB2	1.80	0.64
29:CE:149:ARG:HB3	29:CE:154:PHE:CD2	2.32	0.64
2:DA:32:ILE:HG22	2:DA:96:LEU:HB2	1.77	0.64
3:JA:541:TYR:O	3:JA:637:ARG:NH1	2.30	0.64
3:JA:765:VAL:HB	3:JA:774:LEU:HD11	1.78	0.64
35:CL:128:MET:HE3	35:CL:155:PHE:HB2	1.79	0.64
35:CL:298:VAL:HA	35:CL:793:PHE:CE1	2.32	0.64
38:JC:253:TYR:HE1	38:JC:265:ILE:HG23	1.60	0.64
66:D3:952:A:H2'	66:D3:953:G:H8	1.63	0.64
7:UD:336:ILE:HD11	7:UD:347:LEU:HD12	1.80	0.64
14:UK:108:ARG:HH22	67:D4:325:C:P	2.20	0.64
15:UL:14:PHE:HB2	15:UL:681:ILE:HB	1.79	0.64
15:UL:658:SER:OG	15:UL:678:ASP:N	2.30	0.64
16:UM:559:ILE:HB	16:UM:569:LYS:HB2	1.79	0.64
17:UN:338:LEU:HD13	17:UN:341:LYS:HE3	1.78	0.64
23:UT:1244:LEU:HD11	23:UT:1280:LEU:HD13	1.79	0.64
24:UU:589:THR:HG23	24:UU:604:SER:HA	1.79	0.64
27:UZ:24:CYS:HA	27:UZ:30:LEU:HB3	1.79	0.64
35:CL:1086:MET:HE3	65:D2:408:U:H1'	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:JC:116:HIS:CE1	38:JC:126:GLN:HE22	2.14	0.64
38:JC:227:ARG:NH1	38:JC:248:SER:OG	2.31	0.64
58:DQ:12:LYS:HE2	58:DQ:17:THR:HG22	1.78	0.64
60:DW:82:LYS:O	60:DW:86:ILE:HG12	1.96	0.64
65:D2:314:U:O2'	65:D2:315:U:OP1	2.14	0.64
1:CA:128:PRO:HA	1:CA:136:PRO:HA	1.79	0.64
1:CB:106:LEU:HD21	1:CB:156:MET:HG3	1.79	0.64
6:UC:604:ARG:NE	26:UX:44:ILE:O	2.27	0.64
13:UJ:559:ASN:ND2	13:UJ:595:THR:O	2.30	0.64
20:UQ:229:SER:OG	20:UQ:232:ASP:OD1	2.14	0.64
22:US:48:THR:O	22:US:52:LEU:N	2.30	0.64
23:UT:878:ASN:HD21	23:UT:881:LEU:HD22	1.62	0.64
25:UV:269:ARG:NH1	25:UV:271:SER:OG	2.31	0.64
25:UV:523:TYR:HD2	25:UV:616:LYS:HB3	1.62	0.64
25:UV:1222:GLU:HB3	37:CN:60:LEU:HD21	1.80	0.64
35:CL:618:PHE:CZ	36:CM:274:LYS:HE2	2.33	0.64
46:JO:38:GLU:OE2	46:JO:86:ARG:NH2	2.30	0.64
50:DF:81:ARG:NH2	66:D3:1615:C:OP1	2.31	0.64
52:DH:97:ARG:HE	52:DH:98:ILE:H	1.44	0.64
58:DQ:100:GLN:NE2	58:DQ:104:GLU:OE1	2.30	0.64
66:D3:75:U:C4	66:D3:76:A:H1'	2.32	0.64
66:D3:953:G:H2'	66:D3:954:G:H8	1.63	0.64
66:D3:1038:U:O2'	66:D3:1039:A:O5'	2.15	0.64
66:D3:1699:G:N2	66:D3:1702:A:OP2	2.28	0.64
2:DA:24:PHE:HZ	57:DO:39:ILE:HA	1.63	0.64
9:UF:134:ASN:O	9:UF:138:LYS:HG2	1.97	0.64
11:UH:569:GLU:O	11:UH:572:SER:OG	2.15	0.64
13:UJ:112:ALA:O	13:UJ:116:HIS:ND1	2.30	0.64
23:UT:43:GLU:O	31:CH:63:ARG:NH2	2.29	0.64
27:UZ:73:LEU:HB3	27:UZ:125:VAL:HG23	1.80	0.64
38:JC:14:TYR:HE1	38:JC:363:LEU:HD22	1.63	0.64
54:DJ:108:ARG:NH2	54:DJ:145:SER:OG	2.30	0.64
3:JA:752:ASN:HD21	3:JA:755:THR:HG1	1.46	0.64
1:CB:241:PHE:HD1	1:CB:268:VAL:HG13	1.62	0.64
7:UD:76:ILE:HG13	7:UD:91:ILE:HB	1.78	0.64
13:UJ:25:ARG:HH12	47:JP:16:VAL:HG12	1.63	0.64
15:UL:592:SER:OG	15:UL:594:ASP:OD1	2.13	0.64
21:UR:399:LYS:NZ	21:UR:401:GLU:OE1	2.25	0.64
24:UU:173:LEU:HD22	24:UU:221:ILE:HD11	1.80	0.64
24:UU:468:MET:SD	24:UU:489:MET:HE1	2.38	0.64
27:UZ:164:ARG:NH1	65:D2:257:G:O3'	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CK:366:GLU:HB3	34:CK:370:ARG:HH22	1.63	0.64
45:JN:294:ARG:NH2	66:D3:7:G:OP2	2.31	0.64
51:DG:138:ALA:HA	51:DG:141:ILE:HD12	1.79	0.64
55:DL:65:SER:HB3	66:D3:247:A:H2	1.63	0.64
64:Dc:11:LYS:HG3	64:Dc:53:ILE:HG22	1.80	0.64
66:D3:1673:G:N2	66:D3:1729:C:O2	2.31	0.64
2:DA:180:THR:OG1	2:DA:183:GLN:OE1	2.11	0.64
4:UA:514:VAL:HG11	4:UA:534:THR:HG21	1.80	0.64
5:UB:554:GLN:OE1	5:UB:559:ARG:N	2.29	0.64
8:UE:473:LYS:HG2	8:UE:474:PRO:HD2	1.80	0.64
14:UK:116:LYS:O	14:UK:119:GLU:HG3	1.97	0.64
15:UL:41:LEU:HB2	15:UL:54:ILE:HD11	1.79	0.64
17:UN:299:ASN:HD21	66:D3:-7:A:H5'	1.62	0.64
20:UQ:258:TYR:CE2	20:UQ:414:ILE:HG12	2.33	0.64
20:UQ:443:ASN:O	20:UQ:447:LYS:CA	2.46	0.64
21:UR:148:THR:N	21:UR:152:GLU:OE1	2.20	0.64
25:UV:373:ARG:O	25:UV:522:LYS:NZ	2.31	0.64
25:UV:586:VAL:O	25:UV:611:ASP:N	2.24	0.64
26:UX:79:LYS:HZ3	45:JN:310:SER:H	1.45	0.64
27:UZ:235:ILE:HG21	27:UZ:239:ILE:HG22	1.80	0.64
35:CL:161:HIS:HA	61:DX:144:ARG:HH12	1.62	0.64
37:CN:223:LEU:HG	37:CN:227:ARG:HH12	1.61	0.64
44:JM:193:GLU:O	44:JM:196:GLU:HG3	1.98	0.64
46:JO:255:GLN:NE2	46:JO:256:LEU:O	2.31	0.64
50:DF:40:ILE:HG23	50:DF:69:PHE:CE2	2.32	0.64
66:D3:891:A:H2'	66:D3:892:A:H8	1.63	0.64
7:UD:569:PHE:O	7:UD:586:THR:OG1	2.15	0.63
31:CH:241:THR:HG21	31:CH:285:SER:HA	1.80	0.63
38:JC:192:ASN:HB3	43:JK:485:TRP:HZ3	1.61	0.63
45:JN:308:ILE:HG21	60:DW:95:PRO:HG3	1.80	0.63
60:DW:35:ILE:O	60:DW:39:GLN:HG3	1.97	0.63
1:CB:297:ARG:NH2	1:CB:322:ARG:O	2.31	0.63
7:UD:322:ASN:HB3	20:UQ:329:ASN:HD22	1.63	0.63
15:UL:414:LEU:HB3	15:UL:428:PHE:HB2	1.79	0.63
15:UL:837:ASP:OD1	15:UL:882:ARG:NH1	2.30	0.63
20:UQ:388:PRO:HG2	20:UQ:781:SER:HB3	1.79	0.63
21:UR:138:LEU:HA	21:UR:144:LYS:HB3	1.80	0.63
22:US:350:MET:HG2	22:US:355:ARG:HH11	1.62	0.63
23:UT:1951:THR:HG21	23:UT:1986:VAL:HG12	1.79	0.63
25:UV:305:PRO:HA	25:UV:308:LEU:HB3	1.80	0.63
58:DQ:17:THR:OG1	58:DQ:70:THR:OG1	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:898:A:N1	66:D3:911:U:O2'	2.31	0.63
2:DA:155:TYR:OH	66:D3:932:U:OP2	2.16	0.63
10:UG:502:ARG:NH2	65:D2:369:G:N7	2.36	0.63
11:UH:678:LEU:HB3	12:UI:460:LEU:HD22	1.79	0.63
13:UJ:407:PHE:O	13:UJ:410:ILE:O	2.15	0.63
14:UK:142:LYS:HA	14:UK:145:GLU:HG2	1.81	0.63
15:UL:861:ILE:HD11	16:UM:805:ILE:HG23	1.79	0.63
20:UQ:298:ASP:OD2	20:UQ:299:SER:N	2.28	0.63
23:UT:675:SER:HA	23:UT:678:TRP:CE3	2.34	0.63
24:UU:97:LYS:HD2	24:UU:109:LEU:HD11	1.80	0.63
33:CJ:119:ARG:HD2	33:CJ:122:TYR:HB2	1.80	0.63
35:CL:762:LEU:HD13	35:CL:765:ASN:HD22	1.64	0.63
46:JO:193:ASN:OD1	66:D3:1028:C:N4	2.31	0.63
52:DH:25:VAL:O	52:DH:29:ASN:ND2	2.27	0.63
57:DO:41:ARG:NH2	66:D3:916:U:H3	1.95	0.63
60:DW:111:MET:HE3	60:DW:115:GLU:OE1	1.98	0.63
65:D2:146:G:H2'	65:D2:147:C:C6	2.32	0.63
66:D3:279:G:H8	66:D3:280:U:H4'	1.63	0.63
10:UG:543:LYS:NZ	10:UG:544:ASP:H	1.97	0.63
16:UM:765:MET:HA	16:UM:765:MET:HE3	1.80	0.63
20:UQ:167:SER:OG	65:D2:64:U:OP2	2.16	0.63
33:CJ:287:LYS:NZ	33:CJ:288:ASP:O	2.31	0.63
35:CL:254:HIS:HB2	35:CL:257:LEU:HB2	1.79	0.63
35:CL:790:ARG:HG2	35:CL:790:ARG:HH11	1.61	0.63
55:DL:123:VAL:HG12	55:DL:142:VAL:HA	1.79	0.63
61:DX:43:PHE:CE2	61:DX:49:ALA:HB2	2.33	0.63
66:D3:164:A:H2'	66:D3:165:G:C8	2.32	0.63
66:D3:640:U:H2'	66:D3:641:G:H8	1.62	0.63
67:D4:329:C:H2'	67:D4:330:A:H8	1.63	0.63
4:UA:482:SER:O	4:UA:486:SER:N	2.31	0.63
1:CB:319:ARG:HB2	1:CB:321:MET:HE1	1.81	0.63
12:UI:412:THR:HA	12:UI:451:LEU:HD11	1.81	0.63
12:UI:485:ALA:O	12:UI:488:SER:OG	2.17	0.63
18:UO:248:ARG:NH2	18:UO:289:ASN:O	2.32	0.63
18:UO:268:MET:SD	18:UO:285:ASP:HB3	2.39	0.63
20:UQ:215:VAL:HA	20:UQ:218:LYS:HG2	1.79	0.63
22:US:472:HIS:CD2	22:US:474:HIS:H	2.17	0.63
25:UV:1096:TYR:HA	25:UV:1185:LEU:HD21	1.80	0.63
30:CG:8:ALA:HB3	31:CH:465:GLN:NE2	2.13	0.63
38:JC:66:ARG:HB2	38:JC:109:ASP:HA	1.81	0.63
40:JH:399:ILE:HA	40:JH:409:ALA:HB1	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JN:157:GLN:HG2	45:JN:214:ARG:HH21	1.64	0.63
49:DE:191:ARG:HH11	49:DE:245:LYS:HD3	1.63	0.63
58:DQ:79:TYR:O	58:DQ:82:ARG:HG2	1.99	0.63
61:DX:65:ASN:H	61:DX:69:ARG:HG2	1.64	0.63
66:D3:476:U:OP1	66:D3:477:A:O2'	2.10	0.63
66:D3:845:G:N7	66:D3:846:G:N2	2.46	0.63
4:UA:713:ASP:O	4:UA:746:ASN:ND2	2.31	0.63
7:UD:122:VAL:HG11	19:UP:192:PRO:HD2	1.81	0.63
16:UM:104:PRO:O	16:UM:122:THR:N	2.23	0.63
16:UM:111:ASP:OD1	16:UM:112:SER:N	2.32	0.63
20:UQ:144:VAL:HG22	20:UQ:153:ILE:HG22	1.81	0.63
20:UQ:483:LYS:HG2	20:UQ:487:GLU:HB3	1.81	0.63
21:UR:15:PRO:HB2	21:UR:20:GLN:HE21	1.63	0.63
21:UR:427:ASN:OD1	21:UR:428:ALA:N	2.32	0.63
23:UT:597:ARG:HG3	23:UT:626:GLU:OE2	1.98	0.63
23:UT:1648:GLU:OE2	23:UT:1651:ARG:NH1	2.32	0.63
35:CL:59:VAL:HG21	35:CL:61:ARG:CZ	2.29	0.63
52:DH:75:THR:HG23	52:DH:76:LYS:HD3	1.80	0.63
66:D3:1140:G:H2'	66:D3:1141:G:H8	1.64	0.63
66:D3:1680:G:O4'	66:D3:1721:A:N6	2.30	0.63
4:UA:160:PHE:CZ	4:UA:183:ALA:HB3	2.34	0.63
4:UA:303:ASN:HD21	4:UA:324:LEU:HD23	1.64	0.63
4:UA:420:ARG:HG3	34:CK:468:ARG:NH2	2.14	0.63
1:CB:184:VAL:HG23	1:CB:194:VAL:HG11	1.80	0.63
5:UB:644:ASP:OD1	5:UB:687:LYS:NZ	2.23	0.63
7:UD:476:LYS:N	7:UD:489:CYS:O	2.32	0.63
11:UH:524:THR:O	11:UH:553:GLN:NE2	2.31	0.63
15:UL:180:THR:HG21	15:UL:210:LEU:HD21	1.80	0.63
18:UO:279:GLY:O	18:UO:297:LYS:HA	1.99	0.63
22:US:350:MET:HE2	22:US:386:LEU:HB3	1.81	0.63
23:UT:1711:ASP:OD2	23:UT:1762:SER:OG	2.16	0.63
24:UU:366:MET:HG3	24:UU:380:LEU:HD11	1.80	0.63
25:UV:412:LEU:HD12	25:UV:421:LEU:HD23	1.79	0.63
27:UZ:209:ILE:H	27:UZ:209:ILE:HD12	1.63	0.63
32:CI:29:ASP:OD1	32:CI:30:THR:N	2.31	0.63
33:CJ:89:ILE:HG23	33:CJ:117:LEU:HD13	1.81	0.63
38:JC:148:LYS:O	43:JK:479:ILE:HD12	1.98	0.63
65:D2:324:U:H2'	65:D2:327:A:C8	2.34	0.63
66:D3:1775:U:H3	66:D3:1786:G:H1	1.45	0.63
3:JA:35:ASN:O	3:JA:39:ASN:ND2	2.32	0.63
3:JA:173:ARG:NH1	3:JA:521:ASP:OD2	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:UC:608:PHE:HD2	26:UX:147:GLN:HE21	1.47	0.63
7:UD:397:SER:O	7:UD:421:THR:CA	2.35	0.63
8:UE:115:ASN:ND2	8:UE:130:ASP:OD1	2.32	0.63
11:UH:55:TYR:HA	11:UH:72:THR:HA	1.81	0.63
20:UQ:277:SER:OG	65:D2:82:A:OP2	2.15	0.63
21:UR:435:PHE:CE1	21:UR:443:VAL:HG12	2.33	0.63
23:UT:1527:LEU:HD22	23:UT:1551:LEU:HD13	1.81	0.63
35:CL:161:HIS:O	61:DX:144:ARG:NH1	2.31	0.63
35:CL:1114:GLN:NE2	65:D2:412:A:H1'	2.14	0.63
36:CM:282:GLU:OE2	36:CM:291:ARG:N	2.30	0.63
66:D3:391:A:H2'	66:D3:392:G:C8	2.34	0.63
66:D3:647:G:H1	66:D3:687:G:H22	1.45	0.63
66:D3:938:G:C2	66:D3:942:G:C2	2.87	0.63
77:EJ:270:THR:H	77:EJ:275:MET:HA	1.64	0.63
4:UA:828:ILE:HD11	24:UU:929:CYS:SG	2.39	0.63
1:CB:294:ARG:NH2	19:UP:182:SER:OG	2.32	0.63
5:UB:712:THR:O	5:UB:713:HIS:ND1	2.31	0.63
7:UD:347:LEU:HB3	7:UD:361:LEU:HD21	1.81	0.63
8:UE:128:GLN:HG3	8:UE:137:LEU:HB2	1.81	0.63
11:UH:636:GLN:OE1	20:UQ:605:ASN:ND2	2.26	0.63
13:UJ:304:GLN:HE22	13:UJ:347:PHE:H	1.46	0.63
15:UL:162:HIS:O	34:CK:522:ARG:NH2	2.32	0.63
15:UL:298:LYS:O	15:UL:301:LYS:HG2	1.98	0.63
20:UQ:40:ASP:O	20:UQ:42:ARG:N	2.31	0.63
28:CD:323:THR:HA	28:CD:391:ASN:ND2	2.13	0.63
31:CH:327:ASP:O	31:CH:338:THR:HA	1.98	0.63
34:CK:330:VAL:HG11	35:CL:932:LEU:HD12	1.81	0.63
37:CN:63:ASN:OD1	37:CN:66:HIS:ND1	2.29	0.63
46:JO:218:GLU:N	46:JO:218:GLU:OE2	2.32	0.63
52:DH:38:LEU:HA	52:DH:41:LEU:HD13	1.80	0.63
53:DI:191:PHE:O	53:DI:194:ARG:HG3	1.99	0.63
62:DY:109:LYS:NZ	66:D3:54:C:O3'	2.31	0.63
67:D4:94:A:H61	67:D4:322:A:H61	1.45	0.63
78:EK:300:LEU:O	78:EK:389:THR:HA	1.98	0.63
2:DA:146:GLN:H	2:DA:149:GLN:HE21	1.47	0.62
3:JA:508:PRO:O	3:JA:649:TYR:OH	2.17	0.62
5:UB:612:THR:HG23	5:UB:614:ILE:H	1.63	0.62
8:UE:23:ALA:HB1	21:UR:261:PRO:HG3	1.80	0.62
9:UF:167:ILE:HD11	17:UN:327:PHE:CD2	2.34	0.62
14:UK:70:ARG:HH21	14:UK:78:LEU:HD22	1.64	0.62
14:UK:147:THR:HB	14:UK:150:LYS:HE2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UL:22:ASN:HD21	15:UL:85:LEU:H	1.47	0.62
15:UL:555:VAL:HB	15:UL:569:LEU:HB2	1.79	0.62
16:UM:490:HIS:ND1	16:UM:512:ASP:OD2	2.32	0.62
17:UN:336:THR:HG22	17:UN:338:LEU:H	1.64	0.62
20:UQ:711:ILE:HD13	20:UQ:722:LEU:HD13	1.81	0.62
23:UT:443:PRO:O	23:UT:449:ARG:NH2	2.31	0.62
23:UT:513:ASN:HA	23:UT:516:LYS:HD2	1.80	0.62
25:UV:705:HIS:HA	25:UV:708:LEU:HD12	1.81	0.62
28:CD:79:LYS:NZ	28:CD:112:GLU:OE2	2.32	0.62
30:CG:7:LYS:HG3	31:CH:463:GLN:HE22	1.64	0.62
35:CL:968:THR:HG22	35:CL:1001:VAL:HG12	1.81	0.62
35:CL:1086:MET:HE2	65:D2:407:A:H2	1.64	0.62
38:JC:110:ASP:OD2	38:JC:111:TRP:N	2.32	0.62
39:JG:163:ILE:HD12	39:JG:170:HIS:CG	2.34	0.62
46:JO:252:PRO:HG3	56:DN:112:LYS:HG3	1.79	0.62
66:D3:427:C:O2'	66:D3:459:G:N3	2.32	0.62
7:UD:120:SER:OG	7:UD:121:THR:N	2.31	0.62
7:UD:202:ILE:HD11	7:UD:267:PHE:HE2	1.64	0.62
16:UM:749:ASN:OD1	16:UM:750:ALA:N	2.29	0.62
20:UQ:469:ASN:OD1	20:UQ:470:TYR:N	2.32	0.62
23:UT:77:LEU:HA	23:UT:80:ILE:HD12	1.79	0.62
31:CH:504:ASN:HB2	31:CH:506:ARG:CZ	2.29	0.62
35:CL:91:ARG:HH22	35:CL:214:ARG:NE	1.97	0.62
36:CM:67:ILE:HG12	36:CM:74:VAL:HG22	1.81	0.62
38:JC:59:SER:OG	38:JC:333:ASN:N	2.31	0.62
52:DH:56:LYS:HB3	52:DH:88:ARG:NH1	2.13	0.62
53:DI:52:ASN:ND2	66:D3:333:A:OP1	2.32	0.62
64:Dc:60:GLU:OE1	64:Dc:60:GLU:N	2.32	0.62
66:D3:139:C:N4	66:D3:175:G:N3	2.45	0.62
66:D3:552:G:N1	66:D3:587:C:O2	2.32	0.62
1:CA:195:TYR:HD1	1:CA:218:ILE:HG12	1.63	0.62
1:CA:222:GLU:OE2	1:CA:229:LYS:HD2	1.99	0.62
2:DA:223:PHE:HE2	2:DA:228:LEU:HD12	1.64	0.62
3:JA:144:GLY:HA3	3:JA:476:TYR:HB3	1.81	0.62
7:UD:271:THR:HG22	7:UD:272:LEU:N	2.12	0.62
10:UG:329:LEU:HD13	10:UG:406:ALA:HA	1.81	0.62
14:UK:120:LYS:NZ	67:D4:320:G:OP1	2.27	0.62
15:UL:299:ARG:HA	15:UL:302:ARG:HD2	1.81	0.62
20:UQ:357:ILE:HD12	20:UQ:371:PHE:CD1	2.34	0.62
23:UT:1763:LEU:HA	23:UT:1766:PHE:HE2	1.62	0.62
24:UU:613:ASP:HB2	24:UU:620:ILE:HD13	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:1163:LEU:HD11	25:UV:1182:ILE:HG22	1.80	0.62
26:UX:100:ASP:OD1	26:UX:127:ARG:NH2	2.32	0.62
33:CJ:82:GLY:H	33:CJ:83:ILE:HD12	1.63	0.62
36:CM:55:LEU:HB2	36:CM:88:HIS:CE1	2.34	0.62
38:JC:51:GLN:NE2	38:JC:90:SER:OG	2.25	0.62
39:JF:99:LEU:HD21	39:JF:238:CYS:HB2	1.80	0.62
66:D3:1115:U:H2'	66:D3:1116:A:H8	1.65	0.62
66:D3:1511:U:H2'	66:D3:1512:G:C8	2.34	0.62
4:UA:518:VAL:HG12	4:UA:534:THR:HG22	1.81	0.62
4:UA:656:ARG:NH1	10:UG:210:GLU:OE1	2.32	0.62
6:UC:541:ASN:OD1	6:UC:542:TYR:N	2.32	0.62
8:UE:319:TRP:CD1	8:UE:319:TRP:H	2.16	0.62
13:UJ:1581:LYS:NZ	13:UJ:1584:GLU:OE2	2.26	0.62
23:UT:689:TYR:CE2	23:UT:785:ILE:HG12	2.34	0.62
23:UT:1893:GLU:HA	23:UT:1896:ILE:HD12	1.81	0.62
24:UU:308:PRO:HB2	24:UU:324:PHE:HB2	1.80	0.62
28:CD:196:LYS:HA	28:CD:216:PHE:CZ	2.33	0.62
29:CE:14:LEU:HD23	29:CE:45:ALA:HB3	1.82	0.62
31:CH:140:LEU:HD11	31:CH:537:PHE:HD2	1.63	0.62
47:JP:440:ARG:HG3	66:D3:1069:A:H5"	1.82	0.62
52:DH:162:ILE:HA	52:DH:165:LYS:HD2	1.82	0.62
53:DI:10:LYS:NZ	66:D3:323:A:OP2	2.23	0.62
53:DI:175:GLN:NE2	66:D3:332:U:OP2	2.27	0.62
60:DW:57:ARG:HB3	66:D3:863:A:H4'	1.82	0.62
66:D3:1629:G:N1	66:D3:1637:C:O2	2.32	0.62
67:D4:205:G:N2	67:D4:206:C:N3	2.47	0.62
5:UB:422:LEU:HD22	5:UB:466:TYR:CD2	2.34	0.62
7:UD:767:LYS:HZ2	19:UP:214:GLY:H	1.46	0.62
13:UJ:1586:LEU:C	13:UJ:1587:ARG:HD3	2.25	0.62
16:UM:226:ASN:HD22	16:UM:230:LYS:HG3	1.63	0.62
16:UM:403:ILE:HG13	16:UM:415:TRP:HB2	1.81	0.62
23:UT:103:LEU:HD22	23:UT:135:LEU:HD11	1.82	0.62
23:UT:322:VAL:HA	23:UT:330:ILE:HD11	1.81	0.62
35:CL:791:ILE:HD12	35:CL:793:PHE:CZ	2.34	0.62
35:CL:934:LEU:HD12	35:CL:1003:LEU:HD22	1.82	0.62
35:CL:1110:ARG:NE	65:D2:411:A:O2'	2.23	0.62
35:CL:1123:LYS:NZ	66:D3:487:G:OP2	2.32	0.62
36:CM:249:SER:O	36:CM:253:GLY:CA	2.48	0.62
49:DE:200:ARG:NH2	66:D3:246:G:OP2	2.33	0.62
51:DG:46:LYS:HB2	51:DG:119:GLN:HE22	1.65	0.62
52:DH:5:GLN:NE2	52:DH:18:LEU:O	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:365:G:H1	66:D3:377:G:H1'	1.63	0.62
2:DA:175:GLU:HG2	2:DA:193:ILE:HD11	1.82	0.62
3:JA:500:PRO:O	3:JA:504:THR:OG1	2.16	0.62
7:UD:758:ASN:O	7:UD:763:HIS:ND1	2.31	0.62
9:UF:368:THR:HA	9:UF:371:ILE:HD12	1.82	0.62
10:UG:348:SER:OG	10:UG:350:ASP:OD1	2.12	0.62
13:UJ:1655:LEU:HD23	13:UJ:1666:LEU:HD13	1.81	0.62
16:UM:415:TRP:CZ2	16:UM:426:ILE:HD13	2.34	0.62
16:UM:602:TRP:HB3	16:UM:609:CYS:HA	1.82	0.62
20:UQ:36:ARG:HH22	20:UQ:90:LYS:HD2	1.65	0.62
24:UU:853:ASN:OD1	24:UU:854:SER:N	2.32	0.62
25:UV:508:SER:HA	25:UV:512:LEU:HD13	1.80	0.62
36:CM:267:ILE:HG22	36:CM:270:GLU:H	1.63	0.62
2:DA:105:PHE:CD2	2:DA:213:ARG:HA	2.34	0.62
1:CB:184:VAL:HA	1:CB:187:VAL:HG12	1.82	0.62
7:UD:571:THR:HG21	7:UD:632:ASN:HB3	1.82	0.62
10:UG:67:LEU:HD13	10:UG:410:ASN:HD21	1.64	0.62
11:UH:635:PHE:HD2	12:UI:492:ILE:HD11	1.64	0.62
13:UJ:242:SER:HB3	13:UJ:261:LEU:HD21	1.81	0.62
13:UJ:1723:LEU:HA	13:UJ:1726:LEU:HG	1.80	0.62
15:UL:363:GLU:HG2	15:UL:381:LYS:HD2	1.80	0.62
16:UM:457:ALA:HB3	16:UM:494:ILE:HD13	1.81	0.62
20:UQ:362:GLU:HB3	20:UQ:454:ILE:HD11	1.81	0.62
21:UR:557:THR:HG23	21:UR:559:GLY:H	1.64	0.62
25:UV:959:LEU:HD23	25:UV:962:LEU:HD12	1.81	0.62
34:CK:429:GLU:HA	34:CK:432:LYS:HD2	1.82	0.62
34:CK:534:ARG:NH1	66:D3:1628:U:OP2	2.23	0.62
35:CL:69:PRO:HB3	35:CL:114:ARG:HG3	1.81	0.62
65:D2:94:A:H2'	65:D2:95:A:H8	1.63	0.62
65:D2:133:U:H2'	65:D2:134:A:C8	2.35	0.62
68:EA:162:U:H5'	79:EN:224:GLY:HA3	1.81	0.62
4:UA:666:ARG:HA	4:UA:666:ARG:NE	2.14	0.62
1:CB:218:ILE:HD11	29:CE:144:ALA:HB3	1.82	0.62
7:UD:294:TYR:OH	7:UD:310:ASN:ND2	2.32	0.62
8:UE:53:LEU:HD11	8:UE:60:VAL:HG13	1.81	0.62
13:UJ:98:ILE:HG21	13:UJ:131:ASN:ND2	2.14	0.62
13:UJ:106:SER:HB2	13:UJ:138:SER:HB2	1.82	0.62
21:UR:168:PHE:CE1	24:UU:218:LEU:HD11	2.35	0.62
22:US:321:ASN:HA	22:US:361:LEU:HD21	1.82	0.62
23:UT:462:ARG:NH2	23:UT:463:ASP:OD1	2.33	0.62
25:UV:762:TYR:HE2	25:UV:900:GLU:HG2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CI:78:LEU:HD23	32:CI:97:LEU:HD21	1.81	0.62
32:CI:161:VAL:O	32:CI:164:SER:OG	2.06	0.62
38:JC:205:GLU:OE1	38:JC:217:LYS:NZ	2.33	0.62
39:JG:89:PRO:O	39:JG:92:THR:OG1	2.17	0.62
50:DF:117:THR:HG22	50:DF:191:ALA:HA	1.82	0.62
53:DI:32:GLN:O	53:DI:56:ARG:NH1	2.32	0.62
65:D2:2:U:H2'	65:D2:3:G:C8	2.35	0.62
65:D2:468:A:H61	67:D4:49:C:N4	1.96	0.62
66:D3:52:U:H2'	66:D3:53:G:H8	1.64	0.62
66:D3:158:U:H2'	66:D3:160:C:H5"	1.82	0.62
79:EN:436:GLU:O	79:EN:440:LEU:N	2.32	0.62
6:UC:608:PHE:HA	26:UX:147:GLN:HE21	1.64	0.62
7:UD:302:ARG:HG2	7:UD:332:ASP:HA	1.81	0.62
7:UD:532:ASN:OD1	7:UD:546:GLY:N	2.33	0.62
7:UD:594:PHE:HA	7:UD:611:LEU:HA	1.80	0.62
10:UG:287:TYR:CE1	10:UG:304:ARG:HD2	2.35	0.62
11:UH:272:PHE:HA	11:UH:280:GLN:H	1.65	0.62
12:UI:499:ILE:HA	12:UI:502:ARG:CD	2.29	0.62
16:UM:8:LYS:O	16:UM:644:TRP:HA	1.99	0.62
16:UM:732:ASN:HD22	16:UM:735:GLN:HE22	1.46	0.62
16:UM:788:TYR:OH	34:CK:496:TYR:O	2.18	0.62
21:UR:426:VAL:HG21	21:UR:458:ILE:HG13	1.82	0.62
24:UU:902:ASN:HB3	24:UU:905:ILE:HG12	1.81	0.62
25:UV:434:LEU:N	25:UV:485:TYR:OH	2.31	0.62
25:UV:577:ARG:NH2	25:UV:629:THR:OG1	2.33	0.62
25:UV:785:GLU:OE1	25:UV:785:GLU:N	2.33	0.62
25:UV:1058:LEU:HG	25:UV:1059:PRO:HD3	1.81	0.62
29:CE:286:ASN:N	29:CE:374:ASP:OD2	2.32	0.62
36:CM:206:ASN:HA	36:CM:209:ILE:HG12	1.82	0.62
36:CM:260:ASP:OD1	36:CM:261:ILE:N	2.31	0.62
38:JC:92:LYS:HG3	38:JC:93:PHE:HD1	1.64	0.62
38:JC:96:HIS:ND1	66:D3:392:G:O2'	2.28	0.62
53:DI:35:ASN:O	53:DI:37:LYS:NZ	2.28	0.62
56:DN:87:ASP:OD1	56:DN:88:LEU:N	2.32	0.62
65:D2:94:A:H2'	65:D2:95:A:C8	2.35	0.62
65:D2:180:G:N2	65:D2:217:C:O2	2.17	0.62
65:D2:387:C:N3	65:D2:388:C:N4	2.47	0.62
66:D3:1123:C:O2	67:D4:2:U:N3	2.32	0.62
4:UA:148:ASP:HB3	4:UA:166:LYS:HE2	1.81	0.62
4:UA:222:LYS:HA	4:UA:246:TYR:HB2	1.82	0.62
4:UA:385:GLU:HB2	4:UA:414:TRP:HH2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:718:ASP:OD1	4:UA:719:VAL:N	2.33	0.62
16:UM:801:GLU:OE1	24:UU:931:GLY:N	2.32	0.62
18:UO:257:CYS:HB3	18:UO:275:SER:HB3	1.82	0.62
22:US:167:LYS:O	22:US:272:GLN:NE2	2.33	0.62
22:US:329:ARG:HA	22:US:329:ARG:HH11	1.65	0.62
24:UU:126:ASP:OD1	24:UU:142:LYS:HD2	1.99	0.62
25:UV:326:LEU:HD12	25:UV:327:PRO:HD2	1.82	0.62
25:UV:1107:GLY:HA2	25:UV:1178:ASP:HB3	1.80	0.62
27:UZ:250:THR:HG23	66:D3:1498:G:H5'	1.82	0.62
33:CJ:211:ASN:CG	33:CJ:212:ALA:H	2.08	0.62
33:CJ:235:GLN:HB3	33:CJ:250:VAL:O	2.00	0.62
35:CL:830:ARG:HB2	35:CL:880:TYR:HD1	1.62	0.62
35:CL:1112:PHE:CD1	44:JM:178:MET:HE1	2.34	0.62
67:D4:67:G:H2'	67:D4:68:A:H8	1.64	0.62
1:CB:251:ARG:HH21	7:UD:178:GLU:HB2	1.63	0.61
11:UH:631:SER:O	11:UH:634:LEU:HG	2.01	0.61
16:UM:516:LYS:HB3	16:UM:525:LEU:HD11	1.82	0.61
22:US:276:SER:HA	22:US:279:LEU:HD12	1.81	0.61
23:UT:498:ILE:HD11	23:UT:540:THR:HG21	1.82	0.61
24:UU:222:ALA:HB2	24:UU:232:MET:HE1	1.80	0.61
29:CE:318:GLN:OE1	67:D4:325:C:N4	2.21	0.61
31:CH:308:SER:OG	31:CH:311:GLN:OE1	2.10	0.61
33:CJ:21:GLN:O	33:CJ:24:GLN:NE2	2.32	0.61
33:CJ:59:ASP:HA	33:CJ:62:LEU:HG	1.81	0.61
35:CL:140:LEU:HG	35:CL:142:ILE:HD11	1.80	0.61
35:CL:562:GLU:HG2	35:CL:565:ARG:NE	2.15	0.61
35:CL:841:THR:HG23	35:CL:859:ILE:HA	1.80	0.61
35:CL:866:ARG:NH2	61:DX:59:ILE:O	2.32	0.61
66:D3:1502:G:N2	66:D3:1505:A:OP2	2.33	0.61
6:UC:562:ARG:HB3	54:DJ:37:LYS:HB3	1.82	0.61
10:UG:134:VAL:HG23	10:UG:148:LEU:HB2	1.81	0.61
21:UR:143:THR:O	21:UR:146:LEU:N	2.32	0.61
23:UT:459:LEU:HD22	23:UT:462:ARG:HH11	1.64	0.61
23:UT:492:GLN:NE2	23:UT:495:GLU:OE1	2.32	0.61
23:UT:864:ASP:HA	23:UT:867:LYS:HE2	1.82	0.61
23:UT:1546:GLN:O	23:UT:1549:VAL:HG12	2.00	0.61
23:UT:1948:SER:OG	23:UT:1950:SER:O	2.15	0.61
25:UV:355:GLN:HB3	25:UV:414:HIS:CE1	2.35	0.61
27:UZ:55:ARG:NH2	48:JQ:189:PRO:O	2.32	0.61
28:CD:180:LEU:HD21	29:CE:183:ARG:HG2	1.81	0.61
35:CL:832:HIS:N	35:CL:914:ALA:O	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CN:63:ASN:H	37:CN:66:HIS:HB2	1.65	0.61
38:JC:15:GLN:HG3	38:JC:341:TYR:HE1	1.63	0.61
44:JM:124:ILE:HG23	44:JM:141:TRP:HZ3	1.65	0.61
60:DW:72:CYS:HB2	60:DW:129:VAL:HG12	1.82	0.61
65:D2:93:A:H2'	65:D2:94:A:H8	1.65	0.61
66:D3:1775:U:H2'	66:D3:1776:A:C8	2.34	0.61
67:D4:78:G:H2'	67:D4:79:G:H8	1.65	0.61
3:JA:545:HIS:HB2	3:JA:637:ARG:NH1	2.15	0.61
3:JA:563:LYS:NZ	3:JA:564:LEU:O	2.33	0.61
4:UA:272:THR:C	4:UA:273:ARG:HD3	2.25	0.61
8:UE:60:VAL:HG12	8:UE:80:MET:HG2	1.82	0.61
8:UE:103:ASN:ND2	8:UE:127:TYR:OH	2.34	0.61
12:UI:415:GLU:HA	12:UI:418:LYS:HZ2	1.65	0.61
13:UJ:1668:LYS:NZ	67:D4:145:U:O4	2.33	0.61
14:UK:207:ARG:HH21	14:UK:211:LEU:HD21	1.65	0.61
16:UM:217:ASP:OD1	16:UM:218:ASP:N	2.31	0.61
18:UO:273:ILE:HG22	18:UO:283:VAL:HG22	1.82	0.61
18:UO:411:LYS:NZ	18:UO:452:ASP:OD1	2.33	0.61
21:UR:545:HIS:HB2	21:UR:552:PHE:CZ	2.35	0.61
23:UT:27:LYS:NZ	23:UT:29:GLU:HB2	2.15	0.61
23:UT:1265:TYR:CZ	23:UT:1298:LEU:HD21	2.35	0.61
33:CJ:212:ALA:C	34:CK:383:ARG:HH21	2.07	0.61
35:CL:828:ARG:NH1	61:DX:94:ASN:O	2.32	0.61
36:CM:249:SER:O	36:CM:253:GLY:HA2	2.00	0.61
49:DE:65:LEU:HD23	49:DE:70:VAL:HG21	1.81	0.61
54:DJ:143:ILE:HG12	66:D3:767:U:N3	2.16	0.61
66:D3:1775:U:O2	66:D3:1786:G:N2	2.28	0.61
5:UB:625:GLU:O	5:UB:627:HIS:ND1	2.32	0.61
5:UB:640:MET:SD	5:UB:680:LYS:HD3	2.40	0.61
6:UC:560:ASN:CG	6:UC:561:SER:H	2.08	0.61
10:UG:267:LEU:HD23	10:UG:444:LEU:HB2	1.82	0.61
10:UG:389:LEU:HD23	10:UG:402:ILE:HA	1.81	0.61
11:UH:561:LEU:HB3	11:UH:566:LEU:HD21	1.82	0.61
16:UM:241:GLN:NE2	16:UM:260:THR:OG1	2.33	0.61
18:UO:25:ARG:NH2	65:D2:100:G:N7	2.49	0.61
18:UO:97:CYS:HB2	18:UO:140:LEU:HD11	1.81	0.61
18:UO:427:VAL:HG23	18:UO:428:ARG:H	1.66	0.61
21:UR:424:ILE:HG23	21:UR:434:GLU:HG2	1.80	0.61
23:UT:408:VAL:O	23:UT:411:PHE:O	2.18	0.61
25:UV:381:HIS:NE2	25:UV:478:THR:O	2.34	0.61
25:UV:723:ASN:OD1	25:UV:724:LEU:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CD:169:LYS:NZ	28:CD:391:ASN:O	2.33	0.61
38:JC:63:LYS:NZ	38:JC:105:THR:OG1	2.30	0.61
51:DG:7:TYR:HD2	51:DG:10:ASN:HB2	1.65	0.61
67:D4:23:U:O2'	67:D4:26:C:N4	2.28	0.61
1:CA:178:GLY:HA3	1:CA:210:MET:SD	2.41	0.61
4:UA:349:ASN:HA	4:UA:682:THR:HG21	1.82	0.61
4:UA:533:SER:OG	4:UA:580:PHE:O	2.18	0.61
4:UA:844:TYR:OH	15:UL:896:ASP:OD1	2.13	0.61
1:CB:231:ARG:HA	1:CB:260:PHE:CZ	2.36	0.61
5:UB:485:TYR:HD2	5:UB:486:LYS:HD3	1.64	0.61
16:UM:270:ILE:HG22	16:UM:277:VAL:HG22	1.82	0.61
18:UO:395:PHE:HZ	65:D2:86:C:H5	1.47	0.61
20:UQ:180:ASP:OD2	20:UQ:181:ALA:N	2.34	0.61
20:UQ:884:MET:N	20:UQ:884:MET:SD	2.72	0.61
21:UR:168:PHE:CD1	24:UU:218:LEU:HD11	2.35	0.61
23:UT:790:GLU:HG3	23:UT:841:ILE:HD12	1.82	0.61
23:UT:971:ARG:NH1	23:UT:996:ARG:O	2.34	0.61
23:UT:1242:LYS:HA	23:UT:1245:LYS:HE2	1.82	0.61
25:UV:1156:LYS:HG3	25:UV:1157:TYR:HD1	1.64	0.61
35:CL:939:TYR:HB3	35:CL:949:LYS:HD2	1.81	0.61
37:CN:92:GLU:O	37:CN:121:ARG:NH2	2.25	0.61
57:DO:52:ARG:HE	66:D3:905:A:H3'	1.64	0.61
65:D2:193:G:H2'	65:D2:194:G:C8	2.35	0.61
66:D3:586:G:O2'	66:D3:587:C:OP1	2.17	0.61
4:UA:166:LYS:C	4:UA:168:LEU:H	2.09	0.61
7:UD:579:ARG:NH1	7:UD:644:SER:OG	2.32	0.61
7:UD:586:THR:O	7:UD:589:ASN:N	2.33	0.61
9:UF:91:ARG:O	9:UF:95:ILE:HG12	2.00	0.61
10:UG:126:LEU:HB2	10:UG:159:TYR:CE2	2.35	0.61
12:UI:425:ASN:ND2	12:UI:463:LYS:HG3	2.15	0.61
13:UJ:1499:ILE:HA	13:UJ:1502:LYS:HD2	1.82	0.61
13:UJ:1602:ASP:OD1	13:UJ:1606:LYS:NZ	2.26	0.61
14:UK:203:GLN:HA	14:UK:206:GLN:HG2	1.80	0.61
23:UT:656:LYS:NZ	23:UT:692:ASP:OD1	2.31	0.61
31:CH:409:ASP:CG	31:CH:411:PHE:H	2.08	0.61
32:CI:36:TYR:CE1	32:CI:108:ARG:HB3	2.35	0.61
35:CL:762:LEU:HA	35:CL:765:ASN:HD22	1.65	0.61
53:DI:81:VAL:HA	53:DI:102:VAL:HG12	1.82	0.61
66:D3:1073:G:H2'	66:D3:1074:G:C8	2.34	0.61
2:DA:36:SER:HA	2:DA:41:ARG:HH12	1.65	0.61
9:UF:320:ILE:HD11	9:UF:338:VAL:HG11	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UK:108:ARG:NH2	67:D4:325:C:OP2	2.32	0.61
14:UK:117:LYS:NZ	14:UK:204:HIS:HE1	1.98	0.61
15:UL:382:THR:O	15:UL:383:HIS:C	2.44	0.61
16:UM:435:ALA:HB1	16:UM:459:ASN:HB3	1.81	0.61
20:UQ:363:ASN:ND2	20:UQ:368:ASP:OD2	2.34	0.61
28:CD:34:VAL:O	28:CD:37:GLN:HG2	2.00	0.61
32:CI:71:ARG:HE	33:CJ:61:SER:HB2	1.64	0.61
36:CM:339:LEU:HD12	36:CM:350:MET:HG3	1.82	0.61
44:JM:135:HIS:CE1	66:D3:487:G:C2	2.88	0.61
52:DH:70:PHE:O	52:DH:74:GLN:HB2	1.99	0.61
66:D3:328:A:H2'	66:D3:329:G:H8	1.64	0.61
1:CA:236:MET:HE2	28:CD:132:ARG:HG2	1.83	0.61
3:JA:887:ALA:HA	3:JA:891:GLN:HB3	1.83	0.61
4:UA:155:SER:OG	4:UA:157:ASP:OD1	2.13	0.61
7:UD:739:LYS:HB2	7:UD:740:PRO:HD3	1.81	0.61
8:UE:128:GLN:HB3	8:UE:138:GLN:HG2	1.82	0.61
13:UJ:336:LEU:HD11	13:UJ:348:ILE:HD11	1.82	0.61
13:UJ:626:PHE:O	13:UJ:630:TYR:CB	2.49	0.61
13:UJ:1613:MET:O	13:UJ:1619:ARG:NH2	2.26	0.61
16:UM:348:PRO:HD2	16:UM:419:GLU:HG3	1.82	0.61
20:UQ:318:GLU:HG2	20:UQ:320:VAL:HG12	1.82	0.61
20:UQ:430:LYS:NZ	65:D2:69:U:OP2	2.34	0.61
20:UQ:447:LYS:HZ3	20:UQ:770:TYR:HB2	1.66	0.61
20:UQ:510:TYR:HE1	20:UQ:527:HIS:HB3	1.64	0.61
20:UQ:663:LYS:HE3	20:UQ:712:THR:HA	1.82	0.61
21:UR:497:ASN:HA	21:UR:500:MET:HE2	1.81	0.61
24:UU:223:LEU:HB2	24:UU:231:ILE:HG13	1.81	0.61
24:UU:877:ASN:HB2	24:UU:881:TYR:CE2	2.36	0.61
25:UV:755:PRO:HA	25:UV:782:VAL:HG12	1.82	0.61
25:UV:1135:ASN:OD1	25:UV:1137:ASN:ND2	2.33	0.61
28:CD:12:PRO:HG2	28:CD:151:GLN:HG2	1.82	0.61
31:CH:326:GLU:HG3	31:CH:341:ALA:HB2	1.83	0.61
36:CM:109:PHE:HA	36:CM:361:ASN:ND2	2.15	0.61
38:JC:23:ARG:NE	38:JC:314:SER:O	2.33	0.61
38:JC:296:ILE:HG12	38:JC:298:LYS:HE2	1.81	0.61
42:JJ:105:ARG:NH2	42:JJ:162:PHE:O	2.32	0.61
54:DJ:93:LEU:HA	54:DJ:96:VAL:HG12	1.82	0.61
60:DW:56:HIS:O	66:D3:861:U:O2'	2.18	0.61
66:D3:939:A:H2'	66:D3:940:A:C8	2.36	0.61
3:JA:790:SER:HA	3:JA:794:HIS:HA	1.81	0.61
4:UA:420:ARG:NH2	66:D3:1633:A:O2'	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UD:250:THR:OG1	7:UD:252:GLN:OE1	2.16	0.61
7:UD:476:LYS:NZ	7:UD:493:ASP:OD1	2.33	0.61
8:UE:80:MET:HE3	8:UE:84:GLU:HG3	1.83	0.61
10:UG:125:LEU:HD23	10:UG:137:MET:HE3	1.83	0.61
13:UJ:1523:ARG:HD2	67:D4:140:C:H2'	1.82	0.61
15:UL:134:THR:HB	15:UL:150:LEU:HB2	1.81	0.61
16:UM:180:ARG:NH1	66:D3:1778:G:OP1	2.34	0.61
16:UM:686:MET:HA	16:UM:686:MET:HE3	1.83	0.61
22:US:350:MET:HA	22:US:355:ARG:NH1	2.16	0.61
23:UT:631:THR:OG1	23:UT:634:ASN:OD1	2.18	0.61
23:UT:1523:TYR:O	23:UT:1527:LEU:HG	2.01	0.61
25:UV:556:ILE:H	25:UV:556:ILE:HD12	1.66	0.61
28:CD:213:ASN:OD1	28:CD:214:TYR:N	2.34	0.61
38:JC:275:LYS:N	38:JC:291:THR:O	2.29	0.61
47:JP:313:PHE:CE1	47:JP:320:ILE:HG12	2.36	0.61
60:DW:11:LEU:HD21	60:DW:37:PHE:CE1	2.36	0.61
60:DW:50:PHE:HB3	60:DW:63:VAL:HA	1.83	0.61
66:D3:391:A:H2'	66:D3:392:G:H8	1.64	0.61
78:EK:81:ALA:HB1	78:EK:82:PRO:HA	1.83	0.61
1:CA:142:ARG:HH21	1:CA:183:HIS:CD2	2.19	0.61
1:CA:283:GLU:HB3	26:UX:150:CYS:SG	2.40	0.61
3:JA:139:ILE:O	3:JA:475:ARG:NH2	2.30	0.61
4:UA:705:SER:OG	4:UA:706:THR:N	2.34	0.61
7:UD:485:LYS:HE3	7:UD:497:ILE:HG22	1.83	0.61
8:UE:281:ILE:HG12	8:UE:291:ILE:HD11	1.83	0.61
11:UH:656:GLU:O	11:UH:659:THR:OG1	2.16	0.61
18:UO:75:LYS:HD3	18:UO:111:TYR:HA	1.81	0.61
20:UQ:386:ASN:OD1	20:UQ:387:GLY:N	2.32	0.61
20:UQ:768:TRP:CZ3	20:UQ:770:TYR:HA	2.35	0.61
23:UT:15:ARG:NH1	66:D3:82:U:OP1	2.30	0.61
23:UT:591:LEU:O	23:UT:597:ARG:NH2	2.33	0.61
24:UU:173:LEU:HD21	24:UU:219:ASP:HA	1.83	0.61
24:UU:279:ASP:OD1	24:UU:280:ARG:NH1	2.34	0.61
25:UV:304:GLU:H	25:UV:307:LYS:HE3	1.66	0.61
25:UV:1063:ARG:NH2	25:UV:1095:ASP:OD2	2.33	0.61
30:CF:65:LEU:O	30:CF:68:PRO:HD2	2.01	0.61
55:DL:66:ILE:HD11	55:DL:126:GLY:HA3	1.83	0.61
56:DN:30:SER:O	56:DN:34:ILE:HG12	2.01	0.61
56:DN:100:LYS:HE2	56:DN:104:ARG:HH12	1.65	0.61
66:D3:23:G:N2	66:D3:603:U:O2	2.34	0.61
66:D3:1151:A:H2'	66:D3:1152:A:C8	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:341:GLN:HE21	4:UA:378:PHE:HB3	1.65	0.60
5:UB:392:LYS:O	5:UB:395:ASP:C	2.43	0.60
10:UG:466:LEU:O	10:UG:469:THR:OG1	2.17	0.60
14:UK:71:LYS:O	14:UK:79:ILE:HG12	2.01	0.60
16:UM:161:TRP:HB3	16:UM:177:LEU:HD22	1.82	0.60
16:UM:300:SER:HB2	16:UM:316:VAL:HG22	1.83	0.60
16:UM:314:ILE:HA	16:UM:330:THR:HG23	1.83	0.60
20:UQ:507:MET:HG2	20:UQ:532:TRP:HB2	1.82	0.60
23:UT:796:ILE:HA	23:UT:799:PHE:HD2	1.66	0.60
23:UT:864:ASP:OD1	23:UT:865:VAL:N	2.33	0.60
23:UT:1519:SER:O	23:UT:1523:TYR:CB	2.47	0.60
24:UU:117:ASN:OD1	24:UU:118:VAL:N	2.34	0.60
25:UV:1204:VAL:HA	25:UV:1214:LEU:HA	1.82	0.60
26:UX:91:LEU:HD13	54:DJ:54:ARG:NH1	2.16	0.60
29:CE:339:TYR:HE1	29:CE:357:GLY:HA2	1.65	0.60
33:CJ:166:SER:HB2	66:D3:1597:A:N3	2.16	0.60
35:CL:1144:LYS:HA	35:CL:1147:GLU:OE2	2.01	0.60
46:JO:208:GLU:O	46:JO:212:ARG:HG2	2.01	0.60
49:DE:134:LYS:N	66:D3:253:A:OP1	2.34	0.60
50:DF:184:PHE:O	50:DF:185:ARG:NH1	2.31	0.60
62:DY:110:GLN:HB3	62:DY:114:ARG:NH1	2.16	0.60
2:DA:205:PHE:CE2	66:D3:1065:A:H4'	2.36	0.60
4:UA:308:VAL:HG22	4:UA:319:PHE:CD1	2.35	0.60
4:UA:420:ARG:HG3	34:CK:468:ARG:CZ	2.31	0.60
3:JB:790:SER:HA	3:JB:794:HIS:HA	1.82	0.60
7:UD:474:SER:OG	7:UD:490:SER:OG	2.03	0.60
7:UD:488:ILE:O	7:UD:495:VAL:HA	2.01	0.60
9:UF:166:ASN:HD22	9:UF:169:GLN:NE2	1.99	0.60
15:UL:24:VAL:HB	15:UL:42:ILE:HB	1.82	0.60
15:UL:279:LYS:NZ	66:D3:1739:C:OP1	2.34	0.60
15:UL:617:SER:HB3	15:UL:635:LYS:HD3	1.82	0.60
20:UQ:20:PRO:HA	20:UQ:48:PHE:HA	1.82	0.60
20:UQ:561:LEU:HD12	20:UQ:562:PRO:HD2	1.82	0.60
25:UV:252:LEU:HB3	25:UV:270:ILE:HD11	1.81	0.60
32:CI:36:TYR:HE1	32:CI:108:ARG:HB3	1.66	0.60
33:CJ:121:ASN:ND2	66:D3:1585:U:OP2	2.24	0.60
35:CL:1123:LYS:NZ	66:D3:486:G:O3'	2.33	0.60
37:CN:259:ARG:O	37:CN:263:ARG:HG2	2.01	0.60
38:JC:140:PHE:O	38:JC:158:SER:N	2.34	0.60
39:JG:17:LYS:NZ	39:JG:18:ALA:O	2.33	0.60
39:JG:154:ASN:OD1	39:JG:155:SER:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DF:47:SER:OG	50:DF:48:PHE:N	2.33	0.60
56:DN:55:ARG:NH2	63:Db:51:GLN:HE22	1.99	0.60
65:D2:215:U:H2'	65:D2:216:U:H6	1.65	0.60
66:D3:1670:G:O2'	66:D3:1731:A:N6	2.34	0.60
1:CA:120:GLU:N	1:CA:120:GLU:OE1	2.32	0.60
3:JA:473:PRO:HD2	3:JA:478:PRO:HG3	1.83	0.60
4:UA:185:THR:OG1	4:UA:186:THR:N	2.34	0.60
4:UA:608:ASN:HD22	24:UU:513:MET:HG3	1.65	0.60
5:UB:613:ILE:HG13	5:UB:615:PRO:HD3	1.84	0.60
7:UD:548:GLY:HA2	7:UD:570:ILE:HG12	1.84	0.60
9:UF:297:ASP:OD1	9:UF:298:SER:N	2.33	0.60
13:UJ:1380:LEU:HD11	13:UJ:1400:ILE:HG12	1.82	0.60
18:UO:125:HIS:NE2	39:JG:19:LEU:O	2.33	0.60
20:UQ:660:GLN:HG2	20:UQ:661:THR:HG23	1.82	0.60
23:UT:1279:ASN:HA	23:UT:1282:VAL:HG22	1.81	0.60
24:UU:631:ASN:HB2	24:UU:644:THR:HG22	1.83	0.60
33:CJ:53:GLN:HG3	45:JN:215:LEU:HD21	1.82	0.60
42:JJ:199:SER:HA	42:JJ:202:ILE:HD12	1.83	0.60
44:JM:197:LYS:O	44:JM:200:SER:OG	2.17	0.60
46:JO:137:ARG:NE	66:D3:1027:A:OP1	2.35	0.60
66:D3:329:G:H2'	66:D3:330:G:H8	1.66	0.60
8:UE:80:MET:HE1	8:UE:86:TRP:CE2	2.37	0.60
9:UF:113:TYR:CD2	9:UF:132:ILE:HD12	2.35	0.60
11:UH:598:GLU:HA	11:UH:601:LYS:HE2	1.83	0.60
12:UI:505:MET:SD	18:UO:507:MET:HB2	2.41	0.60
18:UO:378:LYS:HD2	21:UR:292:GLY:HA3	1.82	0.60
18:UO:500:GLU:HA	18:UO:503:ARG:CG	2.31	0.60
21:UR:349:GLU:OE2	21:UR:353:ARG:NH1	2.34	0.60
23:UT:935:VAL:HG21	23:UT:945:ARG:HH21	1.66	0.60
23:UT:1289:ILE:HD13	23:UT:1305:VAL:HG21	1.81	0.60
23:UT:1761:ILE:O	23:UT:1803:ASN:ND2	2.29	0.60
25:UV:676:PRO:HB2	25:UV:678:ILE:HG12	1.82	0.60
27:UZ:27:ASN:HB3	27:UZ:30:LEU:HB2	1.82	0.60
35:CL:1033:ARG:HB2	35:CL:1038:ILE:HD11	1.82	0.60
39:JG:55:ILE:HD11	39:JG:76:LEU:HD13	1.83	0.60
44:JM:213:ARG:NH1	66:D3:1492:A:OP1	2.34	0.60
50:DF:100:ASN:OD1	50:DF:101:GLY:N	2.32	0.60
66:D3:162:A:H3'	66:D3:163:G:N2	2.16	0.60
4:UA:62:ASP:OD2	4:UA:104:PHE:N	2.34	0.60
1:CB:169:LYS:HG2	1:CB:193:VAL:HG12	1.84	0.60
5:UB:607:THR:N	5:UB:610:ARG:HE	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:542:ALA:HA	11:UH:677:ASN:HD21	1.64	0.60
10:UG:325:SER:OG	10:UG:406:ALA:O	2.18	0.60
13:UJ:171:GLU:OE1	13:UJ:172:LYS:HB2	2.01	0.60
13:UJ:671:LEU:HD13	13:UJ:719:SER:HB2	1.83	0.60
13:UJ:1511:ARG:HG3	13:UJ:1525:GLU:OE2	2.01	0.60
13:UJ:1581:LYS:O	13:UJ:1585:ASN:ND2	2.35	0.60
16:UM:662:GLN:O	16:UM:665:GLN:HG2	2.01	0.60
23:UT:1203:VAL:O	23:UT:1206:THR:OG1	2.13	0.60
23:UT:1738:TYR:HD1	66:D3:803:A:C4	2.18	0.60
24:UU:227:THR:OG1	24:UU:229:GLU:OE1	2.16	0.60
27:UZ:87:LEU:O	27:UZ:93:THR:OG1	2.19	0.60
30:CF:115:TYR:CD1	30:CF:118:LYS:HD3	2.37	0.60
35:CL:72:VAL:HA	35:CL:137:LEU:O	2.02	0.60
47:JP:276:ASN:ND2	66:D3:-7:A:H61	1.99	0.60
53:DI:64:ASN:O	53:DI:180:ASP:HA	2.01	0.60
54:DJ:114:TYR:HE1	54:DJ:121:SER:HA	1.66	0.60
65:D2:236:C:N4	65:D2:237:A:N1	2.49	0.60
66:D3:629:U:H2'	66:D3:630:A:H8	1.67	0.60
66:D3:880:C:H2'	66:D3:881:A:C8	2.36	0.60
66:D3:1060:U:H2'	66:D3:1061:A:O4'	2.02	0.60
66:D3:1671:A:H3'	66:D3:1672:G:H8	1.67	0.60
1:CA:100:ARG:HB3	44:JM:124:ILE:HD11	1.83	0.60
4:UA:389:SER:O	4:UA:406:SER:HB2	2.01	0.60
7:UD:210:ILE:HD12	7:UD:265:TRP:CZ3	2.37	0.60
10:UG:180:GLU:OE2	26:UX:15:ARG:NH1	2.34	0.60
10:UG:290:ALA:HB3	10:UG:324:ILE:HD11	1.83	0.60
20:UQ:311:TYR:OH	21:UR:394:TRP:O	2.19	0.60
20:UQ:375:ASN:HB2	20:UQ:382:LYS:HE2	1.82	0.60
22:US:215:ASN:HB3	22:US:218:LYS:HD3	1.83	0.60
23:UT:497:ILE:HA	23:UT:500:LEU:HD12	1.83	0.60
23:UT:1127:PHE:HB3	23:UT:1130:ALA:HB3	1.82	0.60
26:UX:90:LEU:HD11	26:UX:182:ILE:HD11	1.82	0.60
26:UX:91:LEU:HG	54:DJ:53:ARG:HG2	1.84	0.60
35:CL:312:PHE:C	35:CL:316:LYS:HZ2	2.10	0.60
65:D2:300:C:H2'	65:D2:301:U:H6	1.66	0.60
66:D3:1158:C:N4	66:D3:1582:U:H5	1.99	0.60
66:D3:1162:C:O2	66:D3:1616:G:N2	2.34	0.60
66:D3:1579:U:H2'	66:D3:1580:C:H6	1.66	0.60
23:UT:558:TRP:HD1	23:UT:561:LEU:HD12	1.67	0.60
27:UZ:226:LYS:HD2	27:UZ:229:ARG:HH21	1.66	0.60
29:CE:204:ALA:O	29:CE:208:ILE:HD12	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CI:136:VAL:O	32:CI:142:LEU:HB2	2.02	0.60
35:CL:300:GLN:HB2	35:CL:792:VAL:HG12	1.84	0.60
35:CL:753:LEU:HG	35:CL:757:LYS:NZ	2.16	0.60
38:JC:227:ARG:NH1	38:JC:230:GLN:OE1	2.34	0.60
49:DE:79:ASP:CG	49:DE:81:THR:H	2.10	0.60
66:D3:1679:G:H2'	66:D3:1722:A:N6	2.17	0.60
67:D4:43:C:H2'	67:D4:44:U:H6	1.67	0.60
67:D4:54:C:N4	67:D4:55:A:N7	2.49	0.60
3:JA:95:GLU:HA	3:JA:98:ILE:HG12	1.84	0.60
3:JA:160:GLN:NE2	3:JA:172:TYR:O	2.33	0.60
3:JA:483:GLU:O	3:JA:487:ASN:ND2	2.34	0.60
4:UA:775:LEU:O	4:UA:778:ILE:HG22	2.01	0.60
3:JB:752:ASN:O	3:JB:756:GLY:N	2.34	0.60
8:UE:473:LYS:HZ2	8:UE:475:ALA:HB3	1.66	0.60
8:UE:545:ALA:HB3	11:UH:677:ASN:ND2	2.17	0.60
9:UF:186:VAL:HG21	9:UF:319:TYR:HE2	1.67	0.60
9:UF:198:ASN:HA	9:UF:201:LYS:HD3	1.83	0.60
11:UH:541:LEU:HD23	11:UH:565:GLU:HB3	1.84	0.60
13:UJ:267:ALA:O	13:UJ:268:LEU:HD23	2.01	0.60
13:UJ:550:TYR:O	13:UJ:553:SER:C	2.44	0.60
13:UJ:616:PRO:O	13:UJ:620:GLU:HG2	2.02	0.60
14:UK:91:LEU:HD11	35:CL:1095:MET:HE3	1.84	0.60
14:UK:118:LEU:HD13	14:UK:204:HIS:HB2	1.84	0.60
15:UL:299:ARG:CZ	15:UL:324:PHE:HB2	2.31	0.60
17:UN:299:ASN:HA	17:UN:302:VAL:HG12	1.83	0.60
18:UO:168:THR:OG1	18:UO:194:ARG:NH1	2.35	0.60
20:UQ:433:ARG:HA	20:UQ:701:VAL:HA	1.83	0.60
21:UR:408:CYS:SG	21:UR:409:ILE:N	2.75	0.60
23:UT:1958:MET:HA	23:UT:1998:LEU:HD23	1.82	0.60
24:UU:257:ARG:NH1	24:UU:261:SER:HB2	2.17	0.60
24:UU:506:THR:OG1	24:UU:547:THR:O	2.19	0.60
25:UV:703:LYS:HZ3	25:UV:1082:GLN:HB3	1.65	0.60
25:UV:960:LYS:HA	25:UV:963:LYS:HZ2	1.65	0.60
27:UZ:179:GLN:O	27:UZ:183:ILE:HG12	2.01	0.60
28:CD:304:SER:O	28:CD:308:GLY:N	2.35	0.60
53:DI:50:GLY:HA2	66:D3:397:A:H4'	1.84	0.60
55:DL:125:VAL:HG12	55:DL:139:VAL:HG12	1.83	0.60
66:D3:1617:U:O4	66:D3:1618:C:N4	2.34	0.60
4:UA:536:LYS:HD2	32:CI:182:PHE:CZ	2.37	0.60
4:UA:608:ASN:ND2	24:UU:513:MET:HG3	2.17	0.60
5:UB:444:ASN:O	5:UB:448:PHE:N	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:UB:799:TYR:HH	61:DX:42:PRO:N	1.99	0.60
7:UD:46:ILE:HG21	7:UD:350:GLY:HA3	1.83	0.60
7:UD:330:GLY:H	7:UD:353:GLU:CD	2.09	0.60
8:UE:440:ILE:HD11	8:UE:452:LEU:HD11	1.83	0.60
13:UJ:1691:ILE:O	13:UJ:1695:MET:HG3	2.01	0.60
15:UL:410:SER:HB2	15:UL:432:TYR:CE2	2.37	0.60
16:UM:85:LEU:HB2	16:UM:101:ILE:HD11	1.84	0.60
20:UQ:38:SER:HB2	20:UQ:43:ASN:HB2	1.84	0.60
23:UT:292:LEU:HG	23:UT:293:PRO:HD3	1.83	0.60
23:UT:1681:LEU:HB2	23:UT:1690:LEU:HD12	1.84	0.60
28:CD:270:ASN:OD1	28:CD:271:VAL:N	2.35	0.60
38:JC:357:ASP:O	38:JC:361:GLU:HG3	2.01	0.60
65:D2:350:A:H2'	65:D2:351:A:H8	1.66	0.60
66:D3:1130:G:H21	66:D3:1138:A:H62	1.50	0.60
77:EJ:276:THR:HA	77:EJ:283:THR:HA	1.83	0.60
4:UA:440:PRO:HG3	4:UA:483:GLN:HG2	1.84	0.60
4:UA:593:VAL:HG13	4:UA:686:PHE:CE2	2.37	0.60
1:CB:201:HIS:O	1:CB:204:GLY:N	2.34	0.60
7:UD:568:ASN:OD1	7:UD:569:PHE:N	2.35	0.60
11:UH:576:ARG:HG3	11:UH:578:LEU:HG	1.84	0.60
24:UU:135:ASN:ND2	24:UU:165:GLY:O	2.33	0.60
25:UV:143:GLU:HA	25:UV:176:PHE:O	2.01	0.60
27:UZ:34:LYS:HG3	27:UZ:203:TYR:HE1	1.66	0.60
28:CD:263:ILE:HG13	28:CD:264:SER:H	1.67	0.60
32:CI:13:LEU:O	32:CI:15:LYS:N	2.35	0.60
32:CI:94:ILE:HG23	33:CJ:58:TYR:HB3	1.83	0.60
33:CJ:88:ILE:HG13	33:CJ:138:ASP:HB2	1.83	0.60
35:CL:154:GLU:CD	35:CL:912:ARG:HH21	2.09	0.60
35:CL:170:VAL:HG12	35:CL:205:PHE:HB2	1.84	0.60
36:CM:142:GLU:O	36:CM:147:ARG:NH2	2.35	0.60
46:JO:113:ALA:O	46:JO:116:ILE:HG22	2.02	0.60
47:JP:444:GLU:OE1	47:JP:448:ARG:NH2	2.33	0.60
53:DI:76:THR:OG1	53:DI:105:ASP:OD1	2.19	0.60
58:DQ:52:LEU:HD13	58:DQ:60:PHE:HD2	1.65	0.60
66:D3:1688:U:H2'	66:D3:1689:A:C8	2.37	0.60
77:EJ:154:GLU:HA	77:EJ:202:ARG:HA	1.82	0.60
3:JA:748:ARG:HH22	3:JA:752:ASN:HB3	1.67	0.59
1:CB:198:GLU:OE2	1:CB:200:SER:N	2.26	0.59
6:UC:494:TYR:HA	6:UC:497:GLN:NE2	2.17	0.59
9:UF:145:ASP:OD1	44:JM:67:THR:OG1	2.19	0.59
13:UJ:76:GLU:OE1	13:UJ:76:GLU:N	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:286:LEU:O	13:UJ:326:LYS:NZ	2.31	0.59
13:UJ:1671:GLY:HA3	13:UJ:1713:LEU:HD22	1.82	0.59
15:UL:10:GLN:OE1	15:UL:682:ARG:NH1	2.33	0.59
16:UM:265:ALA:HA	16:UM:290:ILE:HG13	1.84	0.59
16:UM:745:ASP:OD2	34:CK:508:ARG:NH1	2.35	0.59
17:UN:306:ARG:NH2	66:D3:-5:G:OP2	2.35	0.59
18:UO:43:THR:O	18:UO:304:SER:OG	2.19	0.59
20:UQ:616:SER:OG	20:UQ:618:ASP:OD1	2.12	0.59
24:UU:392:ARG:NH2	67:D4:64:A:OP2	2.35	0.59
25:UV:538:ASN:OD1	25:UV:541:THR:OG1	2.20	0.59
29:CE:298:ARG:HB3	29:CE:341:LEU:HD21	1.84	0.59
33:CJ:74:ASP:OD2	33:CJ:201:ARG:NH1	2.34	0.59
33:CJ:282:ARG:NH1	66:D3:560:U:H5	1.99	0.59
35:CL:632:LYS:HA	35:CL:635:PHE:HB3	1.84	0.59
38:JC:64:VAL:H	38:JC:321:GLU:CD	2.09	0.59
38:JC:146:TYR:HA	38:JC:152:ASP:O	2.02	0.59
46:JO:250:PRO:HG3	56:DN:106:ARG:HG3	1.84	0.59
46:JO:273:LYS:O	46:JO:276:LYS:HG2	2.01	0.59
47:JP:321:VAL:HG23	47:JP:356:TYR:CE2	2.36	0.59
47:JP:436:SER:OG	47:JP:437:ILE:N	2.34	0.59
61:DX:137:LYS:NZ	66:D3:548:G:OP2	2.35	0.59
71:ED:246:ALA:HA	71:ED:276:CYS:HA	1.84	0.59
3:JA:79:LYS:HA	3:JA:82:LYS:HG2	1.83	0.59
1:CB:163:PHE:HB3	1:CB:239:CYS:SG	2.42	0.59
5:UB:707:PRO:HD2	39:JF:229:ASN:ND2	2.17	0.59
7:UD:104:TRP:HA	7:UD:113:ARG:O	2.02	0.59
8:UE:209:ASP:OD1	8:UE:210:ARG:N	2.35	0.59
13:UJ:205:THR:HB	13:UJ:210:LEU:HD21	1.84	0.59
15:UL:753:MET:HB2	15:UL:824:MET:HE1	1.84	0.59
16:UM:592:SER:HB3	16:UM:602:TRP:HH2	1.66	0.59
18:UO:53:HIS:H	18:UO:53:HIS:HD1	1.50	0.59
18:UO:426:LYS:HG3	18:UO:429:VAL:HG21	1.84	0.59
22:US:386:LEU:O	22:US:389:GLU:C	2.45	0.59
22:US:415:MET:HE1	22:US:463:LEU:HD21	1.84	0.59
23:UT:953:LEU:HD12	23:UT:961:ILE:HG12	1.83	0.59
24:UU:24:PHE:HB3	24:UU:654:TRP:HB3	1.83	0.59
25:UV:921:ASP:OD2	25:UV:1172:ASN:ND2	2.35	0.59
27:UZ:119:TYR:CE1	27:UZ:149:LYS:HD2	2.37	0.59
27:UZ:246:THR:H	27:UZ:249:SER:HG	1.50	0.59
30:CG:94:SER:HB3	30:CG:95:ARG:NH1	2.17	0.59
36:CM:191:ILE:HB	36:CM:223:VAL:HG22	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:JF:243:HIS:ND1	39:JG:240:LYS:HE2	2.18	0.59
39:JG:54:LYS:NZ	39:JG:56:SER:OG	2.35	0.59
47:JP:276:ASN:CG	66:D3:-7:A:H61	2.10	0.59
49:DE:212:ASP:OD1	49:DE:216:ASN:N	2.35	0.59
56:DN:92:ILE:HD13	56:DN:122:ILE:HD11	1.84	0.59
66:D3:1497:U:N3	66:D3:1511:U:H1'	2.17	0.59
66:D3:1781:A:H3'	66:D3:1782:A:H8	1.66	0.59
1:CA:306:LEU:O	1:CA:306:LEU:HD12	2.03	0.59
3:JA:727:TYR:O	3:JA:759:THR:OG1	2.17	0.59
4:UA:800:LYS:HG3	24:UU:928:PHE:CE2	2.37	0.59
3:JB:619:SER:HA	3:JB:623:GLN:HA	1.83	0.59
5:UB:781:MET:HE1	61:DX:68:ILE:CD1	2.32	0.59
6:UC:434:PHE:HA	39:JG:132:ARG:HH12	1.67	0.59
10:UG:102:LYS:NZ	10:UG:387:GLU:OE2	2.33	0.59
10:UG:357:SER:HA	10:UG:364:ARG:HD3	1.83	0.59
10:UG:477:ALA:HA	10:UG:515:ARG:HH22	1.68	0.59
15:UL:549:SER:HB2	15:UL:579:ILE:HD11	1.84	0.59
15:UL:629:ASN:HB3	15:UL:641:TYR:HE1	1.67	0.59
15:UL:897:ASP:HA	16:UM:761:ARG:HH21	1.67	0.59
18:UO:5:ARG:N	20:UQ:336:ARG:HH12	2.00	0.59
20:UQ:527:HIS:CE1	20:UQ:556:PRO:HB3	2.38	0.59
21:UR:227:LEU:O	21:UR:593:HIS:NE2	2.36	0.59
21:UR:358:PHE:HA	21:UR:376:LEU:O	2.02	0.59
23:UT:480:TYR:O	23:UT:484:ILE:HG12	2.01	0.59
23:UT:673:ARG:NH2	23:UT:773:LEU:HB3	2.17	0.59
23:UT:723:GLY:HA3	23:UT:751:SER:HB2	1.83	0.59
23:UT:1841:GLU:O	23:UT:1844:ASP:N	2.34	0.59
24:UU:502:LYS:O	24:UU:503:ARG:NH1	2.35	0.59
33:CJ:211:ASN:OD1	33:CJ:212:ALA:N	2.27	0.59
35:CL:1138:ARG:NH1	66:D3:492:A:OP2	2.34	0.59
38:JC:125:PHE:HB2	38:JC:132:HIS:HB2	1.84	0.59
38:JC:195:LEU:O	38:JC:206:PHE:HA	2.03	0.59
51:DG:2:LYS:NZ	66:D3:154:G:OP1	2.29	0.59
1:CB:181:VAL:HG21	1:CB:196:ALA:HB2	1.84	0.59
8:UE:167:SER:O	8:UE:168:HIS:ND1	2.35	0.59
12:UI:499:ILE:HA	12:UI:502:ARG:HD3	1.85	0.59
13:UJ:1712:LYS:NZ	13:UJ:1751:GLY:HA3	2.17	0.59
16:UM:585:ASN:O	16:UM:587:GLN:NE2	2.34	0.59
16:UM:660:LYS:NZ	16:UM:664:GLU:OE2	2.35	0.59
18:UO:500:GLU:HA	18:UO:503:ARG:HG2	1.84	0.59
19:UP:198:ILE:O	19:UP:201:SER:OG	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UQ:293:LEU:HD12	20:UQ:324:TRP:CZ3	2.38	0.59
20:UQ:704:ASN:O	20:UQ:704:ASN:ND2	2.32	0.59
21:UR:312:ILE:HD11	21:UR:326:LEU:HD11	1.85	0.59
21:UR:384:ILE:HG21	21:UR:423:LEU:HD11	1.84	0.59
23:UT:398:GLN:CD	23:UT:746:ILE:HG21	2.27	0.59
23:UT:550:GLU:OE1	23:UT:588:ASN:ND2	2.32	0.59
23:UT:1278:ARG:HG3	23:UT:1315:ARG:HG2	1.84	0.59
23:UT:1635:ILE:HG13	23:UT:1636:LEU:HD22	1.84	0.59
25:UV:589:LYS:O	25:UV:609:ASN:ND2	2.34	0.59
30:CG:30:LEU:O	30:CG:31:ARG:HG2	2.03	0.59
36:CM:269:GLU:N	36:CM:269:GLU:OE1	2.35	0.59
37:CN:50:SER:O	37:CN:127:LYS:NZ	2.35	0.59
47:JP:189:ARG:NH2	47:JP:229:GLN:OE1	2.36	0.59
55:DL:11:ARG:NH1	66:D3:342:C:OP1	2.35	0.59
66:D3:870:C:H2'	66:D3:871:G:H8	1.68	0.59
4:UA:388:SER:OG	4:UA:389:SER:N	2.35	0.59
8:UE:543:LEU:HD11	18:UO:463:VAL:HG23	1.85	0.59
14:UK:146:PHE:O	19:UP:173:ARG:NH1	2.33	0.59
14:UK:201:VAL:HA	14:UK:204:HIS:HD2	1.66	0.59
16:UM:418:ASN:HB3	16:UM:420:ASN:OD1	2.01	0.59
16:UM:465:LYS:H	16:UM:486:THR:HG23	1.68	0.59
21:UR:165:ARG:NE	24:UU:218:LEU:HD23	2.18	0.59
21:UR:517:THR:O	21:UR:534:SER:OG	2.16	0.59
23:UT:262:ALA:O	23:UT:267:SER:OG	2.21	0.59
25:UV:299:PRO:HD2	25:UV:302:VAL:HG11	1.85	0.59
31:CH:488:ILE:HD11	31:CH:496:LEU:HB3	1.85	0.59
39:JF:90:ASP:OD1	39:JF:91:ILE:N	2.32	0.59
55:DL:57:LYS:HE3	66:D3:326:G:H5"	1.85	0.59
55:DL:101:GLU:OE1	55:DL:103:ARG:NH1	2.35	0.59
65:D2:93:A:H2'	65:D2:94:A:C8	2.38	0.59
66:D3:202:A:H2'	66:D3:203:U:H4'	1.84	0.59
66:D3:540:G:N2	66:D3:542:A:N7	2.51	0.59
79:EN:870:ILE:O	79:EN:873:SER:CB	2.51	0.59
4:UA:669:ASP:O	4:UA:672:THR:OG1	2.19	0.59
5:UB:600:LEU:O	5:UB:675:TYR:OH	2.21	0.59
9:UF:102:LYS:NZ	65:D2:482:A:OP2	2.34	0.59
10:UG:46:LEU:HD22	17:UN:859:ARG:HD2	1.84	0.59
13:UJ:1695:MET:HE1	13:UJ:1736:LEU:HD11	1.84	0.59
14:UK:82:ARG:NH2	35:CL:1087:LYS:O	2.35	0.59
21:UR:570:PHE:CD2	21:UR:577:LEU:HD13	2.37	0.59
23:UT:1458:GLN:HB3	23:UT:1462:ARG:HH22	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:UX:63:TYR:CD2	26:UX:90:LEU:HD23	2.37	0.59
30:CG:7:LYS:HB3	30:CG:65:LEU:HD21	1.85	0.59
33:CJ:257:ARG:HH11	33:CJ:277:LEU:HD11	1.66	0.59
39:JG:43:VAL:HB	39:JG:112:VAL:HG12	1.85	0.59
42:JJ:110:ARG:HH12	42:JJ:130:MET:HE2	1.67	0.59
51:DG:10:ASN:ND2	51:DG:127:THR:O	2.20	0.59
60:DW:118:ARG:HH21	60:DW:119:LYS:HZ3	1.50	0.59
62:DY:98:GLU:OE1	62:DY:99:LYS:N	2.36	0.59
66:D3:145:A:O2'	66:D3:146:U:O5'	2.21	0.59
66:D3:312:A:N6	66:D3:352:A:H1'	2.16	0.59
66:D3:358:U:H2'	66:D3:360:A:C8	2.38	0.59
66:D3:656:G:O2'	66:D3:678:A:N1	2.35	0.59
66:D3:950:C:H2'	66:D3:951:A:H8	1.68	0.59
71:ED:177:ARG:HA	71:ED:187:VAL:HA	1.82	0.59
3:JA:743:VAL:HG11	3:JA:814:LEU:HD11	1.83	0.59
7:UD:355:THR:OG1	7:UD:372:MET:O	2.13	0.59
7:UD:767:LYS:HZ2	19:UP:214:GLY:N	2.01	0.59
8:UE:72:ASP:OD1	8:UE:73:THR:N	2.35	0.59
9:UF:73:ARG:NH2	21:UR:13:PRO:O	2.36	0.59
13:UJ:716:PHE:O	13:UJ:719:SER:OG	2.18	0.59
16:UM:662:GLN:NE2	16:UM:666:GLU:OE2	2.35	0.59
20:UQ:437:THR:C	20:UQ:709:ARG:HH21	2.11	0.59
21:UR:317:ARG:HH12	65:D2:233:G:N2	1.98	0.59
23:UT:1314:SER:HA	23:UT:1320:ASP:HB2	1.83	0.59
25:UV:400:LEU:HD23	25:UV:425:VAL:HG12	1.85	0.59
27:UZ:56:ILE:HD11	48:JQ:192:ALA:HA	1.83	0.59
27:UZ:130:ARG:HG2	48:JQ:184:TYR:HE2	1.66	0.59
27:UZ:148:LYS:NZ	66:D3:1512:G:OP1	2.30	0.59
32:CI:24:ASP:O	32:CI:26:GLY:N	2.34	0.59
35:CL:833:ARG:HG3	35:CL:834:TRP:CD1	2.37	0.59
46:JO:142:ARG:NH1	46:JO:168:GLY:O	2.36	0.59
65:D2:329:A:N6	65:D2:385:A:C4	2.70	0.59
66:D3:49:C:OP2	66:D3:425:A:N6	2.35	0.59
66:D3:1171:A:H2'	66:D3:1172:G:H8	1.67	0.59
7:UD:449:LYS:NZ	7:UD:465:LEU:O	2.32	0.59
7:UD:689:ASN:HD22	7:UD:689:ASN:C	2.10	0.59
9:UF:111:ALA:HB1	44:JM:73:ALA:HB2	1.83	0.59
12:UI:419:PHE:O	12:UI:422:THR:OG1	2.16	0.59
13:UJ:1591:THR:O	13:UJ:1595:THR:HG23	2.02	0.59
15:UL:161:SER:O	15:UL:187:LYS:NZ	2.36	0.59
16:UM:288:LEU:HB3	16:UM:306:LEU:HD12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:UO:108:TYR:HA	18:UO:117:LEU:HB3	1.84	0.59
20:UQ:89:VAL:HG11	20:UQ:141:LEU:HD22	1.84	0.59
20:UQ:534:LYS:HD3	20:UQ:541:TRP:CE2	2.37	0.59
23:UT:322:VAL:O	23:UT:368:ASN:ND2	2.35	0.59
23:UT:1261:ILE:HG21	23:UT:1295:VAL:HG21	1.85	0.59
23:UT:1379:ASN:HB3	23:UT:1428:THR:HA	1.83	0.59
23:UT:1922:ILE:HB	23:UT:1934:PHE:CE1	2.38	0.59
25:UV:493:GLY:O	25:UV:497:ARG:HG2	2.03	0.59
25:UV:685:ALA:HA	25:UV:688:LYS:HG2	1.85	0.59
35:CL:878:HIS:O	66:D3:572:C:N4	2.36	0.59
36:CM:109:PHE:HA	36:CM:361:ASN:HD21	1.67	0.59
44:JM:153:ILE:O	44:JM:154:GLU:HG2	2.02	0.59
45:JN:240:ARG:O	45:JN:243:ILE:HG22	2.03	0.59
50:DF:113:ILE:HD13	50:DF:190:ILE:HD11	1.85	0.59
52:DH:113:PRO:O	52:DH:117:THR:OG1	2.18	0.59
61:DX:89:ASN:O	61:DX:92:CYS:N	2.35	0.59
66:D3:457:G:H2'	66:D3:458:G:H8	1.68	0.59
66:D3:1776:A:H2'	66:D3:1777:G:C8	2.37	0.59
3:JA:70:ARG:HH12	66:D3:415:C:P	2.26	0.59
3:JA:563:LYS:N	3:JA:587:GLN:HE22	2.01	0.59
1:CB:228:GLN:O	1:CB:231:ARG:N	2.35	0.59
1:CB:230:TYR:HD1	1:CB:234:ILE:HD12	1.67	0.59
3:JB:119:TYR:N	3:JB:141:THR:O	2.32	0.59
7:UD:762:PHE:O	7:UD:765:LYS:NZ	2.23	0.59
8:UE:336:ASN:O	18:UO:373:ILE:HD12	2.03	0.59
8:UE:444:ALA:O	8:UE:447:SER:O	2.21	0.59
13:UJ:128:HIS:CD2	13:UJ:129:VAL:HG13	2.37	0.59
14:UK:18:GLN:OE1	14:UK:19:LEU:N	2.35	0.59
15:UL:476:ILE:HG22	15:UL:492:SER:HB3	1.83	0.59
15:UL:912:TRP:CD2	16:UM:779:VAL:HG21	2.38	0.59
16:UM:517:ILE:O	16:UM:526:GLU:N	2.35	0.59
20:UQ:306:SER:HA	20:UQ:346:VAL:HG11	1.85	0.59
22:US:466:LEU:HD23	22:US:469:LEU:HD12	1.84	0.59
23:UT:841:ILE:HG22	23:UT:876:TYR:HE1	1.67	0.59
23:UT:1275:PHE:O	23:UT:1281:ARG:NH1	2.32	0.59
23:UT:1742:VAL:HB	23:UT:1745:ILE:HD12	1.83	0.59
23:UT:1758:ALA:HB3	23:UT:1799:GLY:HA3	1.85	0.59
25:UV:215:GLU:OE1	25:UV:223:ARG:NH1	2.33	0.59
25:UV:444:SER:N	25:UV:471:SER:OG	2.32	0.59
25:UV:623:GLU:N	25:UV:623:GLU:OE1	2.35	0.59
29:CE:285:PRO:HG3	29:CE:382:ASP:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:559:SER:OG	35:CL:561:GLU:OE1	2.19	0.59
38:JC:51:GLN:NE2	51:DG:76:LEU:HD21	2.17	0.59
39:JF:104:ILE:N	39:JF:246:GLU:OE2	2.34	0.59
47:JP:420:PRO:HD2	47:JP:423:ILE:HD12	1.85	0.59
52:DH:24:PHE:HA	52:DH:27:LEU:HD12	1.85	0.59
52:DH:102:PRO:HG2	66:D3:810:G:C2	2.37	0.59
3:JA:567:LEU:HD22	3:JA:653:ALA:HB2	1.84	0.59
13:UJ:1423:LEU:HD22	13:UJ:1456:VAL:HG12	1.84	0.59
13:UJ:1666:LEU:O	13:UJ:1670:ILE:HD12	2.03	0.59
15:UL:161:SER:O	15:UL:163:LYS:NZ	2.36	0.59
15:UL:229:TRP:HB3	15:UL:242:LEU:HD11	1.85	0.59
15:UL:888:ARG:NH2	16:UM:807:ASP:OD1	2.30	0.59
20:UQ:657:SER:HB3	20:UQ:675:ARG:NH2	2.18	0.59
23:UT:1548:ILE:HD13	23:UT:1551:LEU:HD21	1.85	0.59
23:UT:1733:LYS:NZ	23:UT:1745:ILE:O	2.22	0.59
24:UU:35:ASN:ND2	24:UU:53:CYS:SG	2.71	0.59
25:UV:580:TYR:HB2	25:UV:618:ILE:HB	1.84	0.59
28:CD:297:HIS:HA	28:CD:301:PRO:HB3	1.85	0.59
29:CE:145:HIS:HB3	29:CE:149:ARG:CZ	2.33	0.59
35:CL:252:LEU:O	35:CL:268:LYS:CB	2.47	0.59
38:JC:297:ALA:HB3	38:JC:311:MET:HE3	1.85	0.59
51:DG:57:ASP:OD1	51:DG:61:PHE:N	2.35	0.59
54:DJ:121:SER:O	54:DJ:124:HIS:N	2.36	0.59
66:D3:524:U:H2'	66:D3:525:A:H5"	1.85	0.59
66:D3:951:A:H2'	66:D3:952:A:H8	1.67	0.59
66:D3:1657:U:H4'	66:D3:1658:G:O5'	2.02	0.59
3:JA:182:ALA:HB1	3:JA:185:ASN:HB2	1.84	0.58
7:UD:739:LYS:H	7:UD:739:LYS:HD2	1.68	0.58
9:UF:183:TYR:CZ	9:UF:322:LEU:HD12	2.37	0.58
9:UF:285:TYR:O	9:UF:288:LYS:HG3	2.02	0.58
13:UJ:1708:ILE:HG23	13:UJ:1752:LEU:HD21	1.85	0.58
23:UT:262:ALA:HB1	23:UT:272:VAL:HG12	1.84	0.58
23:UT:1732:GLU:OE2	66:D3:803:A:N6	2.35	0.58
23:UT:1763:LEU:HD22	23:UT:1810:SER:HB2	1.84	0.58
23:UT:1900:ARG:O	23:UT:1903:LEU:HG	2.03	0.58
24:UU:28:ARG:NH1	24:UU:383:ASP:OD2	2.36	0.58
24:UU:91:TYR:CE2	24:UU:123:ILE:HG21	2.38	0.58
25:UV:1227:GLY:O	25:UV:1231:VAL:N	2.35	0.58
31:CH:68:LYS:O	31:CH:71:LEU:N	2.36	0.58
34:CK:330:VAL:HG13	35:CL:934:LEU:HD23	1.85	0.58
34:CK:473:THR:O	34:CK:477:GLU:HG2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:91:ARG:NH2	35:CL:214:ARG:HE	2.01	0.58
56:DN:99:ARG:NH2	56:DN:141:TYR:OH	2.35	0.58
66:D3:161:U:H2'	66:D3:162:A:C8	2.38	0.58
66:D3:1202:A:N6	66:D3:1210:C:O2'	2.36	0.58
79:EN:647:HIS:O	79:EN:651:GLN:N	2.31	0.58
1:CA:178:GLY:HA2	1:CA:181:VAL:HB	1.84	0.58
3:JA:752:ASN:ND2	3:JA:755:THR:OG1	2.24	0.58
5:UB:647:ILE:HA	5:UB:651:TRP:CE3	2.37	0.58
6:UC:509:ARG:HH11	66:D3:1504:G:P	2.26	0.58
9:UF:118:LYS:HG2	9:UF:153:TYR:CZ	2.38	0.58
13:UJ:636:ASP:OD2	13:UJ:639:ARG:NH1	2.35	0.58
15:UL:53:ASP:OD1	15:UL:54:ILE:N	2.36	0.58
15:UL:474:ALA:N	15:UL:494:ASP:OD2	2.37	0.58
20:UQ:313:LEU:HD22	20:UQ:321:MET:SD	2.44	0.58
22:US:350:MET:CE	22:US:386:LEU:HB3	2.33	0.58
23:UT:194:GLU:HG2	23:UT:238:GLU:HG2	1.84	0.58
25:UV:552:ARG:O	25:UV:556:ILE:HA	2.03	0.58
25:UV:1097:ASP:H	25:UV:1185:LEU:HD23	1.69	0.58
29:CE:314:ALA:N	30:CF:38:ASN:OD1	2.34	0.58
38:JC:98:ASP:OD1	38:JC:99:ALA:N	2.36	0.58
38:JC:162:LEU:HB2	38:JC:176:PHE:HB2	1.85	0.58
38:JC:363:LEU:HA	38:JC:366:LYS:HE2	1.85	0.58
39:JF:140:LEU:O	39:JF:143:GLN:NE2	2.36	0.58
42:JJ:174:LEU:HD13	42:JJ:180:LEU:HB2	1.85	0.58
66:D3:1666:U:H2'	66:D3:1667:A:C8	2.37	0.58
66:D3:1697:G:H2'	66:D3:1698:G:H8	1.65	0.58
79:EN:325:PRO:O	79:EN:553:GLY:N	2.35	0.58
1:CA:263:ASP:OD1	1:CA:264:GLN:N	2.37	0.58
3:JA:195:ASN:ND2	3:JA:197:ASN:OD1	2.36	0.58
3:JA:904:LEU:HD21	3:JA:908:GLN:HB2	1.85	0.58
7:UD:626:TRP:HH2	7:UD:657:ILE:HD11	1.68	0.58
8:UE:109:ASP:OD1	8:UE:150:LYS:HA	2.03	0.58
8:UE:513:LEU:HA	8:UE:516:ILE:HG22	1.85	0.58
9:UF:144:VAL:HG11	9:UF:178:VAL:HG21	1.85	0.58
12:UI:501:GLY:O	12:UI:505:MET:HG2	2.03	0.58
13:UJ:381:ARG:HH12	20:UQ:853:ILE:HG13	1.68	0.58
18:UO:372:HIS:N	21:UR:287:SER:OG	2.28	0.58
21:UR:456:THR:HG23	21:UR:457:LYS:HG2	1.85	0.58
22:US:349:LEU:HD23	22:US:355:ARG:NH1	2.18	0.58
23:UT:1155:ASP:HB2	23:UT:1201:LEU:HD12	1.85	0.58
24:UU:101:TYR:CD1	24:UU:106:GLU:HA	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UU:332:SER:O	24:UU:334:ASP:N	2.35	0.58
25:UV:913:VAL:O	25:UV:917:LYS:HG2	2.03	0.58
29:CE:277:SER:OG	29:CE:293:GLU:OE1	2.17	0.58
31:CH:240:LEU:HD11	31:CH:256:ARG:HG2	1.85	0.58
50:DF:23:VAL:HG12	58:DQ:58:ASP:HB3	1.86	0.58
51:DG:193:LEU:O	51:DG:197:ASN:ND2	2.36	0.58
52:DH:29:ASN:HA	52:DH:35:LYS:NZ	2.19	0.58
52:DH:141:ARG:NH1	52:DH:141:ARG:HB2	2.17	0.58
66:D3:390:G:H1	66:D3:407:A:N6	1.96	0.58
66:D3:1114:G:H2'	66:D3:1115:U:C6	2.38	0.58
3:JA:161:LEU:HA	3:JA:164:MET:HE2	1.85	0.58
10:UG:283:ASP:OD2	10:UG:285:SER:OG	2.16	0.58
15:UL:41:LEU:O	15:UL:51:ILE:HA	2.03	0.58
15:UL:269:THR:OG1	15:UL:286:ILE:O	2.18	0.58
15:UL:426:ARG:HD3	15:UL:459:LEU:HD13	1.85	0.58
15:UL:672:VAL:HB	15:UL:684:TRP:HB2	1.85	0.58
16:UM:601:ILE:O	16:UM:610:LEU:N	2.35	0.58
20:UQ:453:HIS:HB3	20:UQ:456:ALA:O	2.03	0.58
24:UU:229:GLU:OE2	24:UU:245:LYS:NZ	2.37	0.58
25:UV:177:ASN:ND2	25:UV:212:GLU:OE2	2.37	0.58
26:UX:99:THR:OG1	26:UX:101:CYS:SG	2.51	0.58
28:CD:174:ILE:HD11	28:CD:295:LYS:HB3	1.85	0.58
33:CJ:109:LEU:HD21	66:D3:1159:C:N4	2.18	0.58
33:CJ:126:ASN:HD22	58:DQ:123:ARG:HH12	1.50	0.58
34:CK:366:GLU:HB3	34:CK:370:ARG:HH12	1.68	0.58
66:D3:924:A:H2'	66:D3:925:G:C8	2.39	0.58
66:D3:1654:G:H2'	66:D3:1655:A:H8	1.67	0.58
3:JA:183:ARG:NH1	3:JA:557:SER:O	2.36	0.58
1:CB:211:ALA:HB1	29:CE:145:HIS:HE2	1.69	0.58
7:UD:741:LEU:HA	7:UD:756:GLU:HA	1.84	0.58
10:UG:216:TYR:CD2	10:UG:261:PRO:HB3	2.39	0.58
15:UL:920:PHE:HB2	15:UL:926:GLN:HG2	1.84	0.58
16:UM:88:PHE:HB2	16:UM:95:VAL:HG12	1.84	0.58
18:UO:136:ASP:OD1	18:UO:137:ASN:N	2.37	0.58
18:UO:275:SER:OG	18:UO:302:VAL:O	2.22	0.58
22:US:345:ILE:HD11	22:US:382:LYS:HD3	1.85	0.58
23:UT:1011:LEU:HA	53:DI:115:ALA:HB1	1.85	0.58
23:UT:1140:GLN:O	23:UT:1188:LYS:NZ	2.31	0.58
23:UT:1383:ASN:HB3	23:UT:1386:GLU:HG2	1.86	0.58
23:UT:1718:VAL:HA	23:UT:1721:ILE:HG22	1.85	0.58
25:UV:1205:LYS:NZ	25:UV:1214:LEU:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:UZ:17:LEU:O	27:UZ:21:ILE:HG12	2.03	0.58
35:CL:210:VAL:O	35:CL:210:VAL:HG13	2.03	0.58
37:CN:208:ASP:N	37:CN:212:PHE:O	2.35	0.58
38:JC:258:ARG:HB3	43:JK:497:LEU:HD23	1.84	0.58
39:JG:56:SER:HA	39:JG:63:ASP:N	2.18	0.58
55:DL:122:ILE:HG23	55:DL:143:SER:HB2	1.85	0.58
66:D3:91:G:H2'	66:D3:92:A:C8	2.38	0.58
66:D3:273:G:H1	66:D3:283:U:H3	1.49	0.58
66:D3:972:G:H2'	66:D3:973:A:C8	2.39	0.58
66:D3:1776:A:H2'	66:D3:1777:G:H8	1.68	0.58
67:D4:68:A:H2'	67:D4:69:A:C8	2.34	0.58
3:JA:142:VAL:O	3:JA:475:ARG:NH2	2.36	0.58
6:UC:608:PHE:HD2	26:UX:147:GLN:NE2	2.02	0.58
8:UE:444:ALA:O	8:UE:447:SER:C	2.46	0.58
20:UQ:211:MET:HA	20:UQ:224:SER:O	2.03	0.58
20:UQ:317:TRP:HA	20:UQ:340:ILE:HG23	1.85	0.58
20:UQ:583:LYS:HG2	20:UQ:599:ILE:HG22	1.86	0.58
23:UT:240:MET:HE1	23:UT:254:ILE:HB	1.85	0.58
23:UT:1063:SER:HA	23:UT:1108:LEU:HD13	1.85	0.58
24:UU:353:PRO:HA	24:UU:370:SER:HB2	1.84	0.58
25:UV:356:THR:HG23	25:UV:359:PHE:HB2	1.86	0.58
27:UZ:77:LYS:NZ	65:D2:253:U:O2'	2.37	0.58
28:CD:82:LEU:HB3	28:CD:113:PHE:HE2	1.67	0.58
28:CD:197:GLU:OE1	29:CE:165:GLN:NE2	2.37	0.58
29:CE:405:ASP:OD2	29:CE:407:ARG:NH2	2.36	0.58
35:CL:135:ALA:O	35:CL:238:ARG:NH2	2.36	0.58
38:JC:316:ASP:O	38:JC:333:ASN:ND2	2.32	0.58
44:JM:70:ASP:O	44:JM:74:ASN:ND2	2.36	0.58
47:JP:48:THR:HG21	47:JP:410:ILE:HG23	1.86	0.58
52:DH:169:PHE:HB3	52:DH:183:PHE:CE2	2.39	0.58
63:Db:51:GLN:HA	63:Db:66:PRO:HB3	1.85	0.58
65:D2:481:U:O2'	65:D2:482:A:OP2	2.21	0.58
66:D3:639:U:O2'	66:D3:640:U:O5'	2.21	0.58
66:D3:655:G:N2	66:D3:679:U:O4'	2.37	0.58
66:D3:955:A:H2'	66:D3:956:C:O4'	2.03	0.58
66:D3:1739:C:H2'	66:D3:1740:A:C8	2.38	0.58
1:CA:264:GLN:CA	1:CA:320:TYR:O	2.48	0.58
3:JA:12:SER:O	3:JA:16:ASN:ND2	2.36	0.58
4:UA:633:LYS:HE2	65:D2:293:U:C5	2.39	0.58
1:CB:292:LYS:NZ	7:UD:138:ASP:O	2.36	0.58
7:UD:529:ASN:HA	7:UD:545:ARG:HH21	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:48:GLU:OE1	8:UE:48:GLU:N	2.36	0.58
10:UG:449:ILE:HG23	17:UN:842:TYR:HB3	1.86	0.58
13:UJ:304:GLN:NE2	13:UJ:347:PHE:H	2.01	0.58
14:UK:215:GLN:NE2	14:UK:219:ASP:OD2	2.35	0.58
15:UL:142:ASP:OD1	15:UL:142:ASP:N	2.37	0.58
15:UL:188:LEU:HB3	15:UL:198:GLU:HB2	1.85	0.58
15:UL:940:GLY:HA2	34:CK:465:LEU:HD23	1.85	0.58
18:UO:301:PRO:HG2	18:UO:323:SER:HB2	1.84	0.58
18:UO:360:MET:HE1	65:D2:234:A:N9	2.18	0.58
20:UQ:528:ILE:HD12	20:UQ:548:ILE:HG12	1.84	0.58
20:UQ:885:ASP:OD1	20:UQ:886:THR:N	2.37	0.58
22:US:222:LEU:HA	22:US:225:HIS:HE1	1.68	0.58
23:UT:922:MET:HA	23:UT:925:VAL:HB	1.84	0.58
25:UV:127:PHE:HD1	25:UV:283:TYR:HB3	1.69	0.58
27:UZ:173:PRO:HA	27:UZ:176:VAL:HG22	1.85	0.58
35:CL:629:ASP:HA	35:CL:632:LYS:HE2	1.85	0.58
42:JJ:168:LEU:O	42:JJ:172:ILE:HG12	2.04	0.58
49:DE:47:PHE:HD2	49:DE:48:LEU:HD22	1.69	0.58
51:DG:185:GLN:HA	51:DG:188:ARG:NE	2.18	0.58
52:DH:62:VAL:HG11	52:DH:70:PHE:HE2	1.68	0.58
58:DQ:15:SER:OG	66:D3:1608:U:OP1	2.20	0.58
62:DY:89:TYR:CG	66:D3:525:A:H4'	2.38	0.58
63:Db:26:GLN:NE2	66:D3:864:U:OP2	2.30	0.58
66:D3:114:C:N4	66:D3:245:U:O2	2.37	0.58
66:D3:635:A:H2'	66:D3:636:A:C8	2.37	0.58
2:DA:31:ASP:OD2	2:DA:32:ILE:N	2.37	0.58
11:UH:257:SER:C	11:UH:259:ILE:H	2.08	0.58
14:UK:63:TYR:HE2	14:UK:65:HIS:CE1	2.22	0.58
15:UL:183:ASP:O	15:UL:185:MET:N	2.36	0.58
15:UL:905:LEU:HG	16:UM:782:VAL:HG23	1.86	0.58
18:UO:428:ARG:NH2	20:UQ:518:ASP:O	2.31	0.58
23:UT:259:LEU:HD23	23:UT:263:LEU:HD23	1.86	0.58
25:UV:524:ASP:H	25:UV:618:ILE:HD13	1.66	0.58
25:UV:1188:PRO:HA	25:UV:1191:LYS:HB2	1.86	0.58
31:CH:323:ASP:OD1	31:CH:324:ILE:N	2.33	0.58
33:CJ:268:ASN:HD22	33:CJ:271:ALA:HB2	1.69	0.58
35:CL:99:ASN:OD1	35:CL:100:ASP:N	2.37	0.58
35:CL:256:GLU:HA	35:CL:259:GLU:CD	2.29	0.58
36:CM:172:SER:HB3	36:CM:174:ILE:HD11	1.84	0.58
36:CM:192:THR:HG22	36:CM:248:GLN:NE2	2.19	0.58
39:JG:120:ILE:H	39:JG:120:ILE:HD12	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JN:224:HIS:HE2	67:D4:15:U:P	2.26	0.58
50:DF:57:SER:HA	64:Dc:53:ILE:HG13	1.86	0.58
51:DG:31:ARG:HG2	51:DG:100:ALA:HB1	1.86	0.58
53:DI:5:ARG:HB3	53:DI:28:GLU:HB2	1.86	0.58
53:DI:113:PHE:O	53:DI:117:TYR:HB2	2.04	0.58
65:D2:352:U:H3'	65:D2:353:A:H8	1.67	0.58
3:JA:107:TYR:HB2	3:JA:110:GLU:HG2	1.86	0.58
1:CB:305:THR:OG1	14:UK:132:ASN:N	2.36	0.58
8:UE:489:ALA:HB1	18:UO:16:LEU:HD11	1.86	0.58
10:UG:212:GLY:O	10:UG:230:THR:OG1	2.17	0.58
13:UJ:25:ARG:HH22	47:JP:11:ASP:HA	1.67	0.58
13:UJ:308:GLY:HA2	21:UR:225:SER:HB3	1.86	0.58
13:UJ:529:VAL:O	13:UJ:532:SER:OG	2.21	0.58
14:UK:100:LYS:HE3	35:CL:1094:TYR:HE1	1.69	0.58
15:UL:17:ILE:HG23	15:UL:52:TRP:HZ2	1.69	0.58
15:UL:258:LYS:HZ2	15:UL:259:ILE:H	1.52	0.58
17:UN:336:THR:HB	17:UN:339:GLN:HG2	1.86	0.58
19:UP:185:GLN:HA	19:UP:188:LYS:NZ	2.19	0.58
20:UQ:19:LYS:NZ	20:UQ:366:ASN:HD21	2.01	0.58
20:UQ:55:TYR:CZ	20:UQ:385:ILE:HD12	2.39	0.58
23:UT:262:ALA:O	23:UT:313:ARG:NH1	2.37	0.58
23:UT:597:ARG:HH12	23:UT:668:GLY:HA3	1.69	0.58
23:UT:653:LYS:NZ	23:UT:654:THR:O	2.36	0.58
23:UT:1716:MET:HA	23:UT:1719:LYS:HE2	1.86	0.58
24:UU:934:ALA:O	24:UU:938:THR:HG22	2.04	0.58
25:UV:141:TRP:CD1	25:UV:178:TYR:HB3	2.38	0.58
25:UV:166:LYS:HE2	25:UV:597:ARG:HD2	1.84	0.58
26:UX:103:MET:HE1	26:UX:121:ARG:HG2	1.86	0.58
29:CE:227:LEU:HD12	29:CE:228:PRO:HD2	1.85	0.58
33:CJ:189:LEU:HB3	33:CJ:191:PHE:CE1	2.38	0.58
39:JG:76:LEU:HD23	39:JG:76:LEU:H	1.68	0.58
42:JJ:184:THR:HA	42:JJ:231:ILE:O	2.04	0.58
55:DL:37:ASN:HA	55:DL:44:THR:HG21	1.86	0.58
66:D3:389:G:H2'	66:D3:390:G:C8	2.38	0.58
70:EC:15:ASP:O	78:EK:40:TYR:CB	2.52	0.58
1:CB:191:GLU:OE1	1:CB:191:GLU:N	2.32	0.58
7:UD:550:VAL:HG13	7:UD:563:LEU:HB2	1.86	0.58
8:UE:75:ALA:HA	8:UE:90:VAL:HG13	1.85	0.58
8:UE:88:TYR:HB2	8:UE:95:VAL:HG12	1.84	0.58
8:UE:215:TYR:CD1	8:UE:222:THR:HA	2.37	0.58
13:UJ:157:LEU:HD12	13:UJ:165:SER:HA	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UK:184:ILE:HD12	65:D2:427:A:H5'	1.86	0.58
16:UM:129:VAL:HG23	16:UM:135:TYR:C	2.29	0.58
18:UO:233:ASN:HD22	18:UO:247:GLU:HB3	1.67	0.58
18:UO:482:GLU:HA	18:UO:485:ILE:HD12	1.86	0.58
20:UQ:386:ASN:HD21	20:UQ:458:GLN:HE21	1.52	0.58
20:UQ:507:MET:HE3	20:UQ:541:TRP:CD2	2.39	0.58
21:UR:141:ASN:HD22	65:D2:307:C:H5'	1.69	0.58
22:US:224:ASN:O	22:US:284:ARG:NH2	2.25	0.58
25:UV:765:LEU:HD21	25:UV:917:LYS:HB2	1.85	0.58
32:CI:7:HIS:ND1	67:D4:34:A:C5	2.68	0.58
33:CJ:281:ILE:HD11	66:D3:562:G:C4	2.39	0.58
35:CL:52:ARG:HH22	66:D3:436:A:P	2.27	0.58
38:JC:55:PHE:CE2	38:JC:57:GLU:HB2	2.38	0.58
38:JC:83:VAL:O	38:JC:92:LYS:N	2.36	0.58
45:JN:209:ARG:NH2	65:D2:337:G:OP1	2.37	0.58
45:JN:226:ASP:OD1	45:JN:227:LYS:N	2.37	0.58
46:JO:116:ILE:HD13	46:JO:174:MET:HG3	1.85	0.58
50:DF:200:ASN:ND2	50:DF:207:THR:HG23	2.19	0.58
51:DG:74:LYS:HA	51:DG:96:SER:HA	1.85	0.58
52:DH:27:LEU:O	52:DH:31:SER:HB3	2.03	0.58
65:D2:101:G:H3'	65:D2:103:G:H21	1.69	0.58
65:D2:218:U:H2'	65:D2:219:U:C6	2.39	0.58
66:D3:1033:C:H2'	66:D3:1034:C:C6	2.38	0.58
66:D3:1615:C:H5"	66:D3:1616:G:O4'	2.03	0.58
1:CB:233:LEU:HD21	29:CE:144:ALA:HB2	1.85	0.57
5:UB:639:VAL:O	5:UB:642:SER:OG	2.17	0.57
10:UG:178:ASP:OD1	10:UG:179:HIS:N	2.36	0.57
13:UJ:1680:VAL:HG23	13:UJ:1683:HIS:HB2	1.86	0.57
14:UK:16:ARG:NH2	66:D3:556:A:N7	2.52	0.57
14:UK:16:ARG:NH2	66:D3:575:C:N3	2.52	0.57
15:UL:87:ALA:HB2	15:UL:94:LEU:HD13	1.84	0.57
20:UQ:503:ASP:OD2	20:UQ:504:GLY:N	2.36	0.57
22:US:362:MET:HG3	22:US:401:PHE:CZ	2.39	0.57
22:US:490:LYS:HE2	22:US:493:TYR:CE1	2.38	0.57
23:UT:687:ASN:OD1	23:UT:688:VAL:N	2.37	0.57
23:UT:1736:GLU:N	23:UT:1736:GLU:OE2	2.34	0.57
24:UU:242:ARG:HH21	24:UU:244:ILE:HD11	1.69	0.57
24:UU:853:ASN:HB3	24:UU:860:GLU:HG3	1.84	0.57
26:UX:96:PRO:HG2	26:UX:125:ILE:HD13	1.86	0.57
30:CG:33:LEU:HD13	30:CG:102:ILE:HD13	1.86	0.57
35:CL:210:VAL:HG11	82:CL:2001:GTP:H2'	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:831:ARG:HH21	35:CL:838:ILE:HG22	1.69	0.57
40:JH:317:PHE:O	40:JH:322:LEU:N	2.28	0.57
46:JO:57:TRP:HZ3	46:JO:80:MET:HE3	1.69	0.57
47:JP:276:ASN:HD21	66:D3:-7:A:H61	1.52	0.57
50:DF:98:MET:HB3	50:DF:110:ALA:HB2	1.86	0.57
51:DG:194:LYS:HA	51:DG:197:ASN:HD21	1.69	0.57
79:EN:642:ASN:O	79:EN:646:TYR:N	2.33	0.57
3:JA:511:SER:O	3:JA:652:ARG:NH1	2.37	0.57
3:JA:545:HIS:HB2	3:JA:637:ARG:HH12	1.67	0.57
4:UA:11:LEU:HD23	4:UA:701:LEU:HD22	1.85	0.57
7:UD:121:THR:OG1	7:UD:142:GLY:O	2.19	0.57
7:UD:269:PHE:HD2	21:UR:443:VAL:HG23	1.69	0.57
14:UK:28:LEU:HD11	35:CL:969:VAL:HG11	1.86	0.57
14:UK:247:GLN:NE2	14:UK:248:ARG:O	2.38	0.57
15:UL:75:ARG:HE	15:UL:76:GLY:H	1.51	0.57
15:UL:633:CYS:HB2	15:UL:660:VAL:HG11	1.85	0.57
17:UN:832:ASN:HD21	17:UN:834:LYS:NZ	2.02	0.57
20:UQ:391:VAL:O	20:UQ:438:THR:OG1	2.11	0.57
20:UQ:437:THR:HG22	20:UQ:709:ARG:NE	2.19	0.57
22:US:452:ASP:OD2	22:US:455:LEU:HD13	2.03	0.57
23:UT:13:ARG:HH12	62:DY:84:LYS:C	2.12	0.57
23:UT:1463:GLN:NE2	23:UT:1463:GLN:O	2.36	0.57
24:UU:666:ARG:HG2	24:UU:667:THR:H	1.68	0.57
25:UV:197:GLN:OE1	25:UV:367:ARG:NH2	2.37	0.57
29:CE:366:LYS:HB3	29:CE:390:SER:OG	2.04	0.57
31:CH:134:ARG:NH1	31:CH:535:GLU:OE1	2.37	0.57
35:CL:750:TRP:CE3	61:DX:77:ILE:HG23	2.39	0.57
45:JN:286:ARG:NE	65:D2:337:G:O2'	2.37	0.57
50:DF:52:GLU:HG3	50:DF:54:LYS:HG2	1.84	0.57
66:D3:1684:U:H2'	66:D3:1685:G:H8	1.69	0.57
3:JA:23:ARG:NH2	3:JA:480:ASP:OD2	2.37	0.57
4:UA:564:PHE:HB3	4:UA:624:ASN:ND2	2.19	0.57
6:UC:602:LEU:HD11	66:D3:498:G:H5"	1.86	0.57
7:UD:69:ILE:HD11	7:UD:356:LEU:HD13	1.86	0.57
7:UD:336:ILE:HD12	7:UD:348:VAL:O	2.04	0.57
13:UJ:148:PHE:HA	13:UJ:151:ILE:HG22	1.87	0.57
13:UJ:745:TYR:CE2	13:UJ:747:GLN:HG3	2.39	0.57
15:UL:337:LYS:HB3	15:UL:358:SER:HB3	1.87	0.57
15:UL:915:ARG:HG3	15:UL:916:HIS:CD2	2.39	0.57
16:UM:84:LEU:HD13	16:UM:86:LYS:NZ	2.19	0.57
16:UM:104:PRO:HG2	16:UM:122:THR:HB	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:UO:5:ARG:NH1	65:D2:86:C:O2'	2.37	0.57
20:UQ:17:GLY:HA3	20:UQ:51:GLN:HE21	1.69	0.57
20:UQ:612:SER:OG	20:UQ:662:VAL:HG22	2.05	0.57
22:US:383:LEU:O	22:US:387:THR:HG23	2.03	0.57
23:UT:978:PHE:HE2	23:UT:1024:GLN:HG3	1.68	0.57
25:UV:304:GLU:HB3	25:UV:307:LYS:HG3	1.86	0.57
25:UV:461:GLY:O	25:UV:463:GLN:NE2	2.37	0.57
29:CE:167:ILE:HD11	29:CE:298:ARG:HG2	1.86	0.57
33:CJ:258:LEU:HD23	33:CJ:259:PHE:N	2.19	0.57
35:CL:63:PRO:HG2	35:CL:68:PRO:HD3	1.85	0.57
35:CL:104:PRO:HD2	35:CL:358:MET:HE2	1.84	0.57
38:JC:71:CYS:C	38:JC:72:MET:HE2	2.29	0.57
46:JO:47:LYS:O	46:JO:50:GLU:HB3	2.05	0.57
46:JO:259:LYS:NZ	66:D3:631:G:OP1	2.37	0.57
47:JP:187:SER:HA	47:JP:194:PHE:HA	1.84	0.57
55:DL:73:GLY:HA3	55:DL:86:ILE:HD12	1.86	0.57
62:DY:104:SER:OG	62:DY:107:GLN:OE1	2.21	0.57
1:CA:219:PRO:HB2	1:CA:221:ILE:HD11	1.87	0.57
3:JA:721:HIS:O	3:JA:769:ARG:NH1	2.38	0.57
10:UG:333:SER:O	10:UG:333:SER:OG	2.22	0.57
13:UJ:16:ALA:HA	13:UJ:24:ARG:HH22	1.68	0.57
13:UJ:712:ASN:HB3	13:UJ:715:HIS:HB2	1.87	0.57
14:UK:18:GLN:HB2	14:UK:28:LEU:H	1.69	0.57
14:UK:202:LYS:NZ	14:UK:206:GLN:OE1	2.38	0.57
15:UL:447:LEU:O	15:UL:454:LEU:HD12	2.05	0.57
16:UM:104:PRO:HB3	57:DO:72:LYS:HZ1	1.69	0.57
17:UN:294:GLU:O	17:UN:297:LYS:HG2	2.05	0.57
20:UQ:80:GLN:HE22	20:UQ:86:GLU:HB2	1.70	0.57
20:UQ:254:TYR:OH	65:D2:63:G:N7	2.37	0.57
20:UQ:297:ILE:HG22	20:UQ:485:ARG:HH22	1.68	0.57
20:UQ:387:GLY:O	20:UQ:389:LEU:HG	2.03	0.57
21:UR:17:GLU:HA	21:UR:20:GLN:OE1	2.03	0.57
21:UR:249:SER:N	21:UR:269:ASP:OD2	2.37	0.57
23:UT:1345:LEU:HG	23:UT:1346:PRO:HD3	1.85	0.57
23:UT:1716:MET:SD	23:UT:1716:MET:N	2.73	0.57
27:UZ:203:TYR:CD2	27:UZ:206:LYS:HG2	2.40	0.57
47:JP:226:LYS:HD2	47:JP:267:ILE:O	2.03	0.57
51:DG:87:ARG:NH1	66:D3:159:U:O2	2.37	0.57
53:DI:175:GLN:NE2	66:D3:331:A:OP2	2.32	0.57
65:D2:350:A:H2'	65:D2:351:A:C8	2.39	0.57
1:CA:301:LEU:H	1:CA:318:GLY:HA2	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DA:59:ASP:OD1	2:DA:60:ALA:N	2.36	0.57
7:UD:363:SER:HB2	7:UD:366:ASN:HB2	1.87	0.57
9:UF:23:LEU:HD23	9:UF:23:LEU:H	1.69	0.57
11:UH:532:PHE:CE2	11:UH:536:ARG:HB2	2.40	0.57
13:UJ:1404:PHE:HD2	13:UJ:1422:VAL:HG13	1.70	0.57
13:UJ:1458:PHE:HA	13:UJ:1503:LEU:HD11	1.86	0.57
13:UJ:1510:PHE:O	13:UJ:1514:SER:HB3	2.04	0.57
13:UJ:1662:ILE:HA	13:UJ:1665:TYR:HD2	1.70	0.57
13:UJ:1733:ILE:HA	13:UJ:1736:LEU:HD12	1.87	0.57
15:UL:260:GLU:HB3	15:UL:273:TYR:CE1	2.40	0.57
15:UL:643:ASP:HB2	15:UL:650:ILE:HD11	1.86	0.57
17:UN:831:ILE:O	17:UN:831:ILE:HG13	2.05	0.57
18:UO:149:THR:HG23	18:UO:164:LEU:HB3	1.86	0.57
18:UO:275:SER:OG	18:UO:302:VAL:HG13	2.03	0.57
24:UU:610:ARG:HE	24:UU:673:PHE:HE2	1.52	0.57
31:CH:289:ARG:NE	31:CH:332:ALA:O	2.37	0.57
33:CJ:212:ALA:HA	34:CK:381:LEU:HB3	1.87	0.57
35:CL:628:VAL:HG21	36:CM:218:ASN:HB3	1.87	0.57
35:CL:877:GLU:O	35:CL:878:HIS:ND1	2.37	0.57
36:CM:119:LYS:HG2	36:CM:165:GLU:OE1	2.04	0.57
38:JC:290:VAL:O	38:JC:297:ALA:HA	2.04	0.57
50:DF:76:ARG:NH2	58:DQ:122:ARG:HE	2.01	0.57
50:DF:81:ARG:HA	66:D3:1615:C:C5	2.40	0.57
57:DO:20:TYR:HB3	57:DO:27:PHE:HD2	1.68	0.57
65:D2:117:G:H2'	65:D2:118:A:H8	1.69	0.57
65:D2:470:U:H3	67:D4:48:A:N6	1.96	0.57
66:D3:777:C:H5'	66:D3:778:G:H21	1.69	0.57
73:EF:202:ALA:O	73:EF:206:SER:N	2.35	0.57
79:EN:863:MET:O	79:EN:867:LYS:N	2.37	0.57
2:DA:223:PHE:CE2	2:DA:228:LEU:HD12	2.40	0.57
3:JA:837:PHE:HA	3:JA:840:LYS:HG2	1.86	0.57
3:JA:916:ILE:HA	3:JA:919:LYS:HD2	1.87	0.57
4:UA:438:VAL:HG12	4:UA:445:VAL:HG22	1.87	0.57
4:UA:587:PHE:CE2	4:UA:688:PRO:HA	2.36	0.57
7:UD:576:ASN:HD21	7:UD:646:LEU:HD21	1.70	0.57
8:UE:4:PRO:O	8:UE:21:THR:OG1	2.16	0.57
8:UE:346:HIS:HB2	65:D2:150:G:C2	2.39	0.57
12:UI:414:PRO:HA	12:UI:417:LYS:HE3	1.85	0.57
13:UJ:315:LEU:HD12	13:UJ:316:PRO:HD2	1.85	0.57
13:UJ:414:LEU:HD13	13:UJ:417:LYS:HD2	1.87	0.57
14:UK:217:ARG:NH2	65:D2:260:A:C8	2.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UK:250:ARG:HG3	14:UK:250:ARG:HH21	1.70	0.57
15:UL:639:VAL:HB	15:UL:653:LEU:HB2	1.87	0.57
15:UL:923:GLU:OE1	42:JJ:264:ARG:NH2	2.37	0.57
18:UO:413:LEU:O	18:UO:416:THR:HG22	2.04	0.57
18:UO:423:LYS:NZ	20:UQ:475:SER:O	2.30	0.57
23:UT:1273:LYS:HE2	23:UT:1349:PHE:HB2	1.87	0.57
23:UT:1781:ILE:HG23	23:UT:1785:ASN:HB2	1.87	0.57
25:UV:204:ASP:OD1	25:UV:205:THR:N	2.37	0.57
28:CD:15:TYR:HE2	28:CD:78:LEU:HB2	1.69	0.57
33:CJ:189:LEU:HB3	33:CJ:191:PHE:HE1	1.70	0.57
35:CL:58:MET:SD	66:D3:434:G:N1	2.77	0.57
35:CL:65:ASP:OD2	35:CL:784:LYS:NZ	2.38	0.57
35:CL:105:ILE:HG23	35:CL:117:PHE:HB2	1.86	0.57
49:DE:57:ASN:OD1	49:DE:58:GLY:N	2.38	0.57
54:DJ:36:LEU:HD23	54:DJ:41:GLU:HB3	1.87	0.57
79:EN:794:LEU:O	79:EN:798:ASN:N	2.35	0.57
2:DA:36:SER:HA	2:DA:41:ARG:NH1	2.20	0.57
2:DA:71:ALA:HB2	2:DA:80:SER:HA	1.87	0.57
2:DA:138:PHE:O	2:DA:213:ARG:N	2.37	0.57
3:JA:173:ARG:HH22	3:JA:183:ARG:HG2	1.70	0.57
4:UA:631:ASN:ND2	65:D2:294:U:OP1	2.38	0.57
4:UA:759:PRO:O	4:UA:763:ILE:HG13	2.05	0.57
10:UG:274:ARG:HB2	10:UG:295:ASP:OD2	2.04	0.57
14:UK:116:LYS:HD3	67:D4:323:G:O5'	2.05	0.57
18:UO:274:ALA:O	18:UO:281:VAL:HA	2.04	0.57
23:UT:641:ARG:O	23:UT:645:VAL:HG23	2.04	0.57
23:UT:1743:LYS:HA	23:UT:1746:LYS:HG2	1.85	0.57
23:UT:2000:PHE:HB3	23:UT:2004:LYS:HZ3	1.70	0.57
29:CE:347:LEU:HD13	29:CE:350:GLN:HE22	1.68	0.57
33:CJ:53:GLN:CG	45:JN:215:LEU:HD21	2.35	0.57
35:CL:286:THR:H	35:CL:298:VAL:HG12	1.68	0.57
35:CL:567:TRP:CH2	36:CM:315:LYS:HD2	2.40	0.57
38:JC:238:ASN:OD1	38:JC:239:ASP:N	2.38	0.57
52:DH:102:PRO:HB3	52:DH:109:VAL:HG21	1.87	0.57
60:DW:90:THR:HG22	60:DW:102:VAL:HG21	1.87	0.57
66:D3:0:U:H4'	66:D3:1:U:O5'	2.05	0.57
66:D3:1575:G:C6	66:D3:1576:A:C6	2.93	0.57
1:CA:156:MET:HE1	6:UC:594:GLU:HG2	1.87	0.57
4:UA:202:ASP:O	4:UA:204:GLU:N	2.35	0.57
4:UA:612:LEU:HD21	24:UU:513:MET:HE1	1.87	0.57
1:CB:110:ASN:HA	1:CB:186:ASP:OD1	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CB:227:PRO:HA	1:CB:230:TYR:CE2	2.40	0.57
3:JB:752:ASN:N	3:JB:757:GLU:O	2.38	0.57
6:UC:557:ASP:O	6:UC:560:ASN:C	2.48	0.57
7:UD:395:SER:OG	7:UD:396:GLU:N	2.38	0.57
13:UJ:1553:ARG:O	13:UJ:1557:ASP:HB2	2.05	0.57
14:UK:213:GLN:HE22	14:UK:217:ARG:HH11	1.53	0.57
17:UN:338:LEU:O	17:UN:342:VAL:HG22	2.04	0.57
20:UQ:34:ILE:HD11	20:UQ:90:LYS:HA	1.87	0.57
20:UQ:319:LYS:HD3	20:UQ:339:GLY:H	1.70	0.57
22:US:502:ASN:N	22:US:505:SER:OG	2.36	0.57
23:UT:874:LEU:HD11	23:UT:885:ARG:HB3	1.87	0.57
23:UT:947:ILE:HG21	66:D3:257:A:H5'	1.87	0.57
23:UT:1611:PRO:HA	23:UT:1614:GLU:OE1	2.05	0.57
30:CF:23:VAL:HA	30:CF:26:GLN:NE2	2.18	0.57
31:CH:409:ASP:OD1	31:CH:412:HIS:N	2.24	0.57
32:CI:71:ARG:NE	33:CJ:61:SER:HB2	2.19	0.57
32:CI:93:LYS:O	32:CI:96:ASP:N	2.37	0.57
35:CL:631:ILE:HD11	36:CM:283:ILE:HG22	1.86	0.57
35:CL:878:HIS:HB2	66:D3:572:C:N3	2.20	0.57
37:CN:144:TYR:OH	37:CN:156:PHE:N	2.27	0.57
38:JC:94:ASP:OD1	38:JC:95:ARG:N	2.38	0.57
46:JO:91:PRO:O	46:JO:94:ILE:HG22	2.05	0.57
55:DL:109:VAL:HG22	55:DL:137:PHE:HB2	1.87	0.57
60:DW:75:ILE:HG22	60:DW:77:PRO:HD2	1.87	0.57
65:D2:123:C:H3'	65:D2:124:A:C8	2.39	0.57
65:D2:192:G:H2'	65:D2:193:G:C8	2.39	0.57
66:D3:1614:A:H2'	66:D3:1615:C:H5'	1.87	0.57
67:D4:53:U:H2'	67:D4:54:C:C6	2.39	0.57
3:JA:60:LYS:HD2	3:JA:61:LYS:N	2.20	0.57
4:UA:524:ARG:NH2	4:UA:526:ASP:OD1	2.38	0.57
13:UJ:48:ILE:HD11	13:UJ:123:ARG:NH1	2.19	0.57
13:UJ:1705:LEU:HD21	13:UJ:1744:ILE:HG12	1.87	0.57
14:UK:65:HIS:CD2	67:D4:55:A:H2	2.23	0.57
15:UL:17:ILE:HG23	15:UL:52:TRP:CZ2	2.39	0.57
16:UM:281:THR:HA	16:UM:327:ILE:HB	1.87	0.57
16:UM:416:ARG:CZ	16:UM:418:ASN:HD21	2.18	0.57
21:UR:218:TYR:OH	24:UU:283:ARG:NH1	2.38	0.57
21:UR:317:ARG:HH22	65:D2:233:G:N2	2.02	0.57
23:UT:468:ALA:HB3	23:UT:503:ARG:HH22	1.69	0.57
24:UU:616:THR:HG23	24:UU:618:GLY:H	1.69	0.57
25:UV:641:GLU:H	25:UV:641:GLU:CD	2.13	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:1065:THR:O	25:UV:1069:LYS:HG2	2.04	0.57
29:CE:323:GLU:OE2	29:CE:324:LYS:HG3	2.05	0.57
30:CG:95:ARG:NH1	31:CH:551:ARG:H	1.99	0.57
31:CH:199:TYR:CD1	31:CH:210:LYS:HA	2.40	0.57
37:CN:80:THR:HB	37:CN:136:ASN:HB3	1.86	0.57
38:JC:317:ILE:HA	38:JC:333:ASN:HB3	1.86	0.57
51:DG:48:TYR:OH	51:DG:119:GLN:O	2.19	0.57
56:DN:29:SER:HB3	56:DN:32:SER:HB3	1.87	0.57
63:Db:11:THR:N	63:Db:14:SER:OG	2.38	0.57
65:D2:158:G:H2'	65:D2:159:A:C8	2.39	0.57
1:CA:222:GLU:HB2	28:CD:162:LYS:HZ2	1.70	0.57
2:DA:135:LEU:HD12	2:DA:217:LEU:HA	1.86	0.57
4:UA:345:PHE:HE2	4:UA:677:PRO:HG2	1.68	0.57
4:UA:512:ILE:HG12	4:UA:547:ALA:HB1	1.85	0.57
1:CB:212:LYS:HZ1	29:CE:149:ARG:HH21	1.53	0.57
12:UI:498:GLY:O	12:UI:502:ARG:HG3	2.05	0.57
14:UK:59:ASN:OD1	33:CJ:3:ARG:NH1	2.35	0.57
15:UL:258:LYS:NZ	15:UL:259:ILE:H	2.02	0.57
15:UL:284:PHE:HA	15:UL:329:PHE:H	1.70	0.57
18:UO:357:PHE:O	18:UO:360:MET:HB3	2.05	0.57
20:UQ:875:MET:O	20:UQ:879:ILE:HB	2.05	0.57
21:UR:401:GLU:HG3	21:UR:402:GLY:H	1.70	0.57
21:UR:561:PRO:O	21:UR:587:ARG:NH1	2.38	0.57
22:US:352:VAL:HG22	22:US:353:LYS:H	1.70	0.57
23:UT:99:ASP:O	23:UT:103:LEU:HG	2.05	0.57
24:UU:228:GLY:HA2	24:UU:246:ILE:O	1.96	0.57
25:UV:930:THR:OG1	25:UV:932:GLU:OE2	2.18	0.57
35:CL:299:ALA:HB3	35:CL:792:VAL:O	2.05	0.57
38:JC:198:GLY:HA3	38:JC:234:THR:HG21	1.87	0.57
47:JP:276:ASN:HB3	47:JP:288:TYR:CE1	2.39	0.57
60:DW:18:GLU:HG2	60:DW:69:LEU:HD23	1.87	0.57
65:D2:362:C:H2'	65:D2:363:A:O4'	2.05	0.57
66:D3:306:U:H2'	66:D3:307:G:C8	2.40	0.57
66:D3:487:G:N2	66:D3:488:G:C4	2.73	0.57
1:CA:225:ARG:HA	1:CA:252:ILE:HD11	1.87	0.56
3:JA:63:LEU:HB3	3:JA:66:PHE:CE1	2.40	0.56
7:UD:196:LYS:NZ	7:UD:246:TYR:OH	2.32	0.56
8:UE:120:ILE:HG12	8:UE:151:LEU:HD22	1.85	0.56
9:UF:126:TYR:HE1	9:UF:158:HIS:CD2	2.23	0.56
10:UG:386:PHE:O	47:JP:8:ARG:NH2	2.37	0.56
10:UG:543:LYS:HZ2	10:UG:544:ASP:H	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:75:SER:O	13:UJ:78:SER:N	2.37	0.56
16:UM:364:ILE:HB	16:UM:382:GLU:HB2	1.86	0.56
20:UQ:320:VAL:HG23	20:UQ:335:PRO:HA	1.87	0.56
20:UQ:608:SER:HB3	20:UQ:626:PHE:CE1	2.40	0.56
21:UR:129:ASP:HA	21:UR:132:LYS:HG2	1.86	0.56
23:UT:948:ALA:O	23:UT:952:VAL:HG23	2.05	0.56
23:UT:1326:SER:HA	23:UT:1329:LYS:HE2	1.87	0.56
23:UT:1758:ALA:HB1	23:UT:1800:LEU:HD22	1.86	0.56
25:UV:649:TRP:HB2	25:UV:653:SER:HB2	1.88	0.56
26:UX:128:LEU:HD11	26:UX:144:ARG:NH1	2.19	0.56
35:CL:161:HIS:CE1	35:CL:916:THR:HG21	2.40	0.56
35:CL:548:ASN:HB3	35:CL:551:LYS:HG2	1.87	0.56
47:JP:445:ARG:NH2	47:JP:445:ARG:HB2	2.20	0.56
50:DF:100:ASN:ND2	66:D3:1473:U:O2	2.34	0.56
50:DF:185:ARG:NH1	50:DF:185:ARG:HA	2.20	0.56
55:DL:95:PRO:O	55:DL:98:ASN:ND2	2.37	0.56
63:Db:30:SER:OG	66:D3:959:U:O2	2.23	0.56
65:D2:21:A:H2'	65:D2:22:A:C8	2.40	0.56
65:D2:180:G:H2'	65:D2:181:A:C8	2.40	0.56
4:UA:93:PHE:HE1	65:D2:297:U:C5	2.23	0.56
1:CB:321:MET:O	1:CB:323:SER:OG	2.18	0.56
7:UD:139:CYS:SG	7:UD:144:ILE:HD11	2.46	0.56
8:UE:469:ILE:HB	8:UE:508:ILE:HD12	1.87	0.56
9:UF:182:TRP:NE1	9:UF:281:LEU:HD21	2.19	0.56
13:UJ:1712:LYS:HZ2	13:UJ:1751:GLY:HA3	1.69	0.56
18:UO:7:ARG:HH12	18:UO:383:ARG:HG2	1.69	0.56
18:UO:449:GLY:O	18:UO:455:SER:OG	2.13	0.56
20:UQ:744:ILE:HG21	20:UQ:753:LYS:HD3	1.87	0.56
22:US:472:HIS:HD2	22:US:474:HIS:H	1.52	0.56
23:UT:219:LEU:HD21	23:UT:270:ARG:HG3	1.88	0.56
23:UT:524:LYS:NZ	23:UT:553:ASN:O	2.35	0.56
23:UT:1405:GLY:HA3	23:UT:1417:TYR:CZ	2.40	0.56
23:UT:1857:ILE:HG22	47:JP:172:LEU:HD22	1.88	0.56
25:UV:921:ASP:HB2	25:UV:926:LEU:HD22	1.88	0.56
25:UV:932:GLU:HA	25:UV:935:GLU:CD	2.30	0.56
28:CD:194:ARG:HH12	29:CE:165:GLN:HE22	1.51	0.56
35:CL:71:ILE:HD11	35:CL:276:HIS:NE2	2.19	0.56
37:CN:136:ASN:HA	37:CN:139:ASN:HD21	1.70	0.56
47:JP:66:HIS:N	47:JP:370:GLY:O	2.32	0.56
51:DG:14:LYS:HD2	51:DG:123:GLY:HA3	1.87	0.56
51:DG:201:GLN:NE2	66:D3:125:U:OP1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DI:195:ARG:HH12	55:DL:12:ALA:HA	1.70	0.56
60:DW:81:VAL:HB	60:DW:125:ILE:HD11	1.87	0.56
61:DX:92:CYS:SG	61:DX:136:TRP:HB2	2.46	0.56
61:DX:109:ARG:HH22	61:DX:119:GLY:H	1.52	0.56
67:D4:32:G:H2'	67:D4:33:A:H5"	1.87	0.56
3:JA:104:ARG:NH2	3:JA:105:TYR:O	2.39	0.56
4:UA:287:TYR:CE1	4:UA:294:LEU:HG	2.41	0.56
4:UA:337:TYR:HE1	24:UU:746:PRO:HB3	1.69	0.56
10:UG:198:PHE:CE2	10:UG:200:PRO:HA	2.40	0.56
11:UH:552:LYS:HE3	11:UH:576:ARG:NH1	2.21	0.56
12:UI:413:GLU:HB3	12:UI:416:ILE:HG12	1.86	0.56
13:UJ:67:ALA:O	13:UJ:70:SER:OG	2.17	0.56
13:UJ:129:VAL:HG23	13:UJ:130:LYS:HG2	1.87	0.56
13:UJ:149:LYS:HZ1	13:UJ:173:PRO:HA	1.70	0.56
13:UJ:348:ILE:HD13	13:UJ:373:ILE:HG21	1.87	0.56
13:UJ:377:ARG:O	13:UJ:381:ARG:HG3	2.04	0.56
15:UL:559:PHE:O	15:UL:563:MET:N	2.34	0.56
16:UM:720:PHE:HB3	16:UM:724:LEU:HD23	1.86	0.56
18:UO:234:PHE:CE1	18:UO:248:ARG:HB2	2.41	0.56
20:UQ:497:ASP:OD2	20:UQ:498:LEU:N	2.38	0.56
21:UR:480:ARG:O	21:UR:496:ARG:HG2	2.04	0.56
22:US:463:LEU:HD13	22:US:466:LEU:HD12	1.87	0.56
22:US:480:LEU:O	22:US:483:ILE:HG22	2.06	0.56
23:UT:114:CYS:O	23:UT:117:LEU:C	2.48	0.56
23:UT:844:VAL:HG11	23:UT:850:LEU:HD12	1.87	0.56
23:UT:1660:LYS:HA	23:UT:1663:ILE:HG22	1.87	0.56
23:UT:1722:MET:HA	23:UT:1725:ILE:HG22	1.87	0.56
24:UU:387:GLN:NE2	65:D2:291:G:H21	2.03	0.56
24:UU:445:MET:HE3	24:UU:445:MET:O	2.05	0.56
25:UV:726:SER:HB2	25:UV:768:PRO:HG2	1.85	0.56
26:UX:10:PHE:HE2	32:CI:133:GLN:HG2	1.71	0.56
28:CD:95:ASN:OD1	28:CD:96:ILE:N	2.38	0.56
29:CE:383:SER:OG	29:CE:385:ASP:OD2	2.22	0.56
30:CG:18:GLN:NE2	31:CH:400:GLY:HA2	2.19	0.56
30:CG:54:MET:HB2	30:CG:64:LEU:HD12	1.86	0.56
36:CM:105:TYR:HE2	36:CM:296:LEU:HA	1.69	0.56
37:CN:18:PHE:O	37:CN:35:HIS:N	2.38	0.56
38:JC:221:GLU:HG2	38:JC:253:TYR:CE2	2.40	0.56
44:JM:127:ARG:HD2	44:JM:136:TYR:CZ	2.40	0.56
50:DF:113:ILE:O	50:DF:117:THR:HG23	2.05	0.56
52:DH:96:ARG:CZ	52:DH:124:LYS:HG2	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DH:97:ARG:HH21	52:DH:98:ILE:HG12	1.70	0.56
53:DI:67:TRP:CD1	53:DI:70:GLU:HB3	2.40	0.56
65:D2:198:A:H3'	65:D2:199:A:H8	1.69	0.56
66:D3:488:G:C5	66:D3:489:C:C4	2.93	0.56
66:D3:1683:C:O2'	66:D3:1684:U:O5'	2.20	0.56
75:EH:5:ILE:N	75:EH:40:GLY:O	2.38	0.56
77:EJ:158:VAL:O	77:EJ:189:SER:N	2.37	0.56
3:JA:789:LEU:HD22	3:JA:890:LEU:HB3	1.86	0.56
10:UG:157:ALA:HB2	10:UG:168:VAL:HG12	1.85	0.56
13:UJ:32:SER:C	13:UJ:154:ILE:HD11	2.31	0.56
13:UJ:1653:ASN:O	13:UJ:1656:SER:OG	2.24	0.56
16:UM:557:VAL:HG23	16:UM:578:VAL:HG21	1.86	0.56
16:UM:779:VAL:HA	16:UM:782:VAL:HG12	1.87	0.56
18:UO:100:ASP:OD1	18:UO:101:ALA:N	2.35	0.56
23:UT:122:LEU:HA	23:UT:125:TYR:HB3	1.87	0.56
23:UT:212:VAL:HG21	23:UT:258:LEU:HD13	1.88	0.56
23:UT:715:TYR:CG	23:UT:762:ILE:HD11	2.41	0.56
23:UT:1362:ALA:O	23:UT:1366:ASN:ND2	2.38	0.56
24:UU:183:VAL:HG23	24:UU:188:VAL:HG22	1.87	0.56
28:CD:156:HIS:O	28:CD:159:SER:OG	2.20	0.56
30:CF:21:LEU:HA	30:CF:24:VAL:HG12	1.88	0.56
30:CG:10:PRO:HG3	30:CG:125:LEU:HD21	1.88	0.56
33:CJ:118:ASN:C	33:CJ:118:ASN:HD22	2.13	0.56
35:CL:140:LEU:HD11	35:CL:152:THR:HG23	1.87	0.56
36:CM:249:SER:O	36:CM:253:GLY:N	2.39	0.56
38:JC:51:GLN:CD	51:DG:76:LEU:HD21	2.30	0.56
46:JO:219:ASP:OD1	46:JO:220:TRP:N	2.39	0.56
47:JP:228:ASN:ND2	47:JP:231:GLU:O	2.34	0.56
47:JP:330:ARG:NH1	47:JP:339:SER:OG	2.37	0.56
56:DN:55:ARG:HH22	63:Db:51:GLN:HE22	1.52	0.56
56:DN:100:LYS:HG2	56:DN:104:ARG:NH2	2.18	0.56
57:DO:42:VAL:HG22	57:DO:67:VAL:HG23	1.88	0.56
79:EN:419:CYS:O	79:EN:423:ALA:N	2.37	0.56
3:JA:59:TYR:OH	66:D3:416:A:N1	2.38	0.56
1:CB:146:PRO:HA	1:CB:152:ALA:HB3	1.88	0.56
1:CB:294:ARG:NH2	19:UP:187:SER:OG	2.27	0.56
5:UB:451:THR:O	5:UB:455:LEU:HG	2.05	0.56
7:UD:635:GLY:HA3	7:UD:649:TRP:CE2	2.41	0.56
12:UI:497:LEU:HD12	18:UO:502:GLN:OE1	2.05	0.56
13:UJ:359:ASP:OD1	13:UJ:361:SER:OG	2.12	0.56
13:UJ:718:ARG:HA	13:UJ:721:VAL:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UL:15:GLY:O	15:UL:360:ASN:ND2	2.38	0.56
15:UL:137:ILE:HD12	15:UL:147:VAL:HG22	1.88	0.56
18:UO:92:ASP:O	18:UO:94:LYS:NZ	2.39	0.56
20:UQ:73:LEU:HD23	20:UQ:129:PRO:HG2	1.87	0.56
20:UQ:143:ASN:OD1	20:UQ:144:VAL:N	2.39	0.56
22:US:289:PHE:HZ	22:US:295:LEU:HD23	1.71	0.56
23:UT:1374:PHE:O	23:UT:1378:ILE:HG13	2.06	0.56
23:UT:1406:LEU:HG	23:UT:1487:PRO:HB2	1.87	0.56
23:UT:1670:LEU:HD11	23:UT:1701:MET:HE3	1.88	0.56
25:UV:1087:LEU:O	25:UV:1090:THR:OG1	2.21	0.56
27:UZ:56:ILE:HG22	27:UZ:188:SER:HB3	1.88	0.56
28:CD:148:GLU:H	28:CD:148:GLU:CD	2.12	0.56
35:CL:849:LEU:HD11	35:CL:890:CYS:SG	2.46	0.56
45:JN:263:VAL:HG11	46:JO:142:ARG:NE	2.21	0.56
46:JO:91:PRO:HB2	57:DO:102:LEU:HD21	1.87	0.56
51:DG:67:VAL:O	51:DG:100:ALA:HB2	2.04	0.56
53:DI:87:ASN:HD21	66:D3:341:A:H4'	1.70	0.56
63:Db:81:ARG:HB3	63:Db:82:LYS:NZ	2.20	0.56
65:D2:137:C:H2'	65:D2:138:U:C6	2.41	0.56
65:D2:462:G:O6	67:D4:55:A:N6	2.39	0.56
66:D3:480:G:N2	66:D3:509:G:N3	2.54	0.56
79:EN:810:PRO:O	79:EN:816:ILE:N	2.38	0.56
1:CA:314:CYS:SG	1:CA:315:ILE:N	2.78	0.56
5:UB:460:LYS:O	5:UB:463:SER:OG	2.19	0.56
9:UF:152:LYS:HD3	44:JM:65:LEU:CD1	2.36	0.56
13:UJ:779:SER:HA	13:UJ:788:THR:HG21	1.88	0.56
13:UJ:1595:THR:HA	13:UJ:1598:LEU:HG	1.88	0.56
16:UM:655:GLU:HA	16:UM:658:LYS:HG2	1.87	0.56
18:UO:366:TYR:CE2	18:UO:368:GLY:HA2	2.40	0.56
20:UQ:868:ASN:ND2	67:D4:76:U:O2'	2.39	0.56
22:US:190:ASP:OD1	22:US:191:ILE:N	2.38	0.56
22:US:399:ILE:HG13	22:US:400:PRO:HD3	1.88	0.56
23:UT:620:SER:HA	23:UT:623:MET:HE3	1.88	0.56
23:UT:1614:GLU:HG3	23:UT:1661:ILE:HG22	1.88	0.56
24:UU:263:HIS:HD2	24:UU:277:ASP:HA	1.70	0.56
25:UV:423:LYS:HE3	25:UV:499:LEU:HB3	1.88	0.56
33:CJ:173:ARG:HA	33:CJ:176:ILE:HD12	1.86	0.56
46:JO:68:ASN:HD21	46:JO:87:LYS:HB2	1.69	0.56
50:DF:142:PRO:HG3	50:DF:170:GLN:HG2	1.88	0.56
51:DG:136:LYS:NZ	66:D3:65:A:OP1	2.37	0.56
60:DW:26:LEU:HD23	60:DW:27:ILE:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:DW:66:ASN:OD1	60:DW:67:GLY:N	2.37	0.56
66:D3:188:A:H62	66:D3:197:A:H1'	1.71	0.56
66:D3:793:A:C2	66:D3:796:A:H3'	2.41	0.56
70:EC:162:SER:HA	70:EC:186:THR:HA	1.87	0.56
3:JA:522:THR:O	3:JA:525:SER:OG	2.21	0.56
4:UA:653:LEU:HD11	65:D2:331:U:N3	2.20	0.56
1:CB:277:ASP:OD2	1:CB:280:VAL:N	2.18	0.56
5:UB:660:ILE:HA	22:US:388:LEU:HD21	1.88	0.56
8:UE:82:ASN:HB3	8:UE:84:GLU:HG2	1.86	0.56
10:UG:548:GLU:OE1	37:CN:185:HIS:ND1	2.34	0.56
13:UJ:721:VAL:O	13:UJ:755:ARG:NE	2.37	0.56
16:UM:271:ASP:OD1	16:UM:272:SER:N	2.39	0.56
17:UN:311:LEU:O	17:UN:884:MET:HB2	2.06	0.56
20:UQ:364:ASN:ND2	20:UQ:409:LYS:O	2.39	0.56
20:UQ:849:ASP:O	20:UQ:853:ILE:HD12	2.05	0.56
23:UT:731:SER:OG	23:UT:732:SER:N	2.38	0.56
23:UT:801:TYR:HA	23:UT:853:HIS:CE1	2.41	0.56
23:UT:1482:SER:O	23:UT:1486:ILE:HG12	2.06	0.56
23:UT:1726:PHE:CE2	23:UT:1776:LEU:HD22	2.40	0.56
24:UU:669:ASP:OD1	24:UU:670:GLU:N	2.38	0.56
28:CD:286:ARG:NH1	28:CD:290:ASP:OD2	2.39	0.56
35:CL:90:VAL:O	35:CL:94:THR:HG22	2.05	0.56
37:CN:212:PHE:CD1	63:Db:80:ARG:HD3	2.41	0.56
44:JM:124:ILE:HG23	44:JM:141:TRP:CZ3	2.40	0.56
49:DE:32:SER:OG	49:DE:33:ALA:N	2.38	0.56
54:DJ:50:SER:O	54:DJ:54:ARG:HG2	2.05	0.56
58:DQ:69:VAL:HG11	58:DQ:81:ILE:CG1	2.35	0.56
62:DY:53:ASP:HB3	62:DY:96:LEU:HD11	1.87	0.56
65:D2:426:G:C2	65:D2:428:A:H5"	2.41	0.56
66:D3:31:C:O2'	66:D3:547:U:OP1	2.24	0.56
66:D3:104:A:N6	66:D3:307:G:H2'	2.20	0.56
66:D3:829:A:H4'	66:D3:830:U:H5'	1.88	0.56
3:JB:737:TRP:O	3:JB:740:ASN:C	2.49	0.56
7:UD:162:ASN:HB2	7:UD:164:THR:HG22	1.87	0.56
7:UD:475:THR:HG22	7:UD:488:ILE:HG23	1.87	0.56
8:UE:111:ASP:OD1	8:UE:153:ILE:HG12	2.05	0.56
9:UF:155:TYR:HE1	9:UF:161:PHE:CZ	2.24	0.56
10:UG:168:VAL:HG22	10:UG:177:TYR:HE2	1.71	0.56
13:UJ:413:ASP:OD1	13:UJ:413:ASP:N	2.38	0.56
15:UL:88:HIS:CD2	15:UL:91:THR:HG23	2.41	0.56
16:UM:280:ARG:O	16:UM:327:ILE:N	2.28	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:UM:787:PRO:HG3	34:CK:495:ILE:HD11	1.87	0.56
22:US:185:TYR:O	22:US:192:GLN:NE2	2.38	0.56
22:US:208:TYR:HD1	22:US:211:LEU:HD21	1.70	0.56
22:US:349:LEU:HD23	22:US:355:ARG:CZ	2.36	0.56
23:UT:91:LEU:HD21	23:UT:109:LEU:HD11	1.86	0.56
23:UT:453:PHE:CE1	23:UT:488:TYR:HB3	2.40	0.56
23:UT:745:HIS:O	23:UT:749:LYS:HG2	2.05	0.56
24:UU:731:MET:HG2	24:UU:883:THR:HG21	1.87	0.56
25:UV:603:THR:OG1	25:UV:610:PHE:O	2.24	0.56
25:UV:870:ALA:O	25:UV:875:LYS:NZ	2.39	0.56
27:UZ:90:ASP:O	27:UZ:91:GLU:HG3	2.06	0.56
31:CH:328:ILE:HA	31:CH:337:VAL:O	2.06	0.56
35:CL:269:VAL:HG21	35:CL:796:VAL:HG11	1.87	0.56
35:CL:799:GLU:HA	35:CL:802:LYS:HG2	1.87	0.56
38:JC:64:VAL:O	38:JC:66:ARG:NH1	2.39	0.56
45:JN:329:ILE:HD11	60:DW:89:TRP:CH2	2.40	0.56
49:DE:178:GLY:H	49:DE:195:ILE:HG13	1.70	0.56
51:DG:5:ILE:HD11	51:DG:113:ILE:HG13	1.87	0.56
66:D3:1274:C:H2'	66:D3:1275:A:C8	2.41	0.56
66:D3:1644:C:H2'	66:D3:1645:G:H8	1.71	0.56
4:UA:265:CYS:SG	4:UA:308:VAL:HG23	2.46	0.56
5:UB:515:HIS:H	5:UB:519:THR:HG23	1.71	0.56
7:UD:147:ILE:HD11	7:UD:156:LEU:HD13	1.87	0.56
7:UD:468:ASP:HA	7:UD:471:LEU:HD12	1.88	0.56
9:UF:33:MET:O	9:UF:37:THR:HG23	2.06	0.56
10:UG:475:ASN:OD1	10:UG:478:LYS:HE2	2.05	0.56
10:UG:493:LYS:O	10:UG:498:ARG:NH2	2.38	0.56
13:UJ:778:SER:O	13:UJ:782:VAL:HG22	2.06	0.56
14:UK:22:ARG:NH1	35:CL:937:PHE:CG	2.74	0.56
14:UK:208:GLU:O	14:UK:212:LYS:HG3	2.06	0.56
15:UL:98:TYR:HE2	15:UL:104:LYS:HD2	1.71	0.56
15:UL:201:ILE:HB	16:UM:660:LYS:HD3	1.88	0.56
16:UM:631:MET:HE3	16:UM:643:PHE:HB3	1.87	0.56
20:UQ:484:VAL:HG23	20:UQ:485:ARG:H	1.70	0.56
23:UT:264:THR:O	23:UT:267:SER:OG	2.21	0.56
23:UT:1402:ILE:HG13	23:UT:1417:TYR:HD1	1.70	0.56
23:UT:1665:LEU:HD12	23:UT:1669:TYR:CD2	2.40	0.56
23:UT:1889:VAL:HA	23:UT:1892:LEU:HG	1.88	0.56
23:UT:1999:ALA:O	23:UT:2003:LEU:HG	2.06	0.56
24:UU:376:TRP:CH2	24:UU:388:GLU:HB2	2.41	0.56
25:UV:547:PHE:O	25:UV:552:ARG:NH1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CH:256:ARG:HA	31:CH:282:GLU:HB3	1.87	0.56
35:CL:874:TYR:OH	66:D3:578:U:OP2	2.21	0.56
46:JO:59:ASP:HB3	46:JO:110:PHE:CZ	2.41	0.56
49:DE:201:HIS:ND1	49:DE:205:PHE:O	2.39	0.56
53:DI:34:ALA:HB2	53:DI:56:ARG:HD3	1.88	0.56
65:D2:182:G:H2'	65:D2:183:A:H8	1.70	0.56
65:D2:341:G:N2	65:D2:386:A:N7	2.54	0.56
66:D3:1684:U:H2'	66:D3:1685:G:C8	2.41	0.56
2:DA:8:ARG:NH2	66:D3:908:U:OP2	2.38	0.56
2:DA:24:PHE:CZ	57:DO:39:ILE:HA	2.41	0.56
4:UA:172:ILE:HG23	4:UA:187:PHE:HE2	1.71	0.56
5:UB:706:LYS:HD2	39:JF:229:ASN:OD1	2.06	0.56
8:UE:116:GLN:HB3	8:UE:128:GLN:HE22	1.71	0.56
9:UF:166:ASN:HA	9:UF:169:GLN:NE2	2.21	0.56
13:UJ:411:ASN:OD1	13:UJ:414:LEU:HD23	2.06	0.56
13:UJ:491:TYR:O	13:UJ:495:LEU:HG	2.06	0.56
13:UJ:1742:GLU:CD	31:CH:58:ASN:HD21	2.14	0.56
14:UK:66:ALA:HB3	35:CL:1079:PHE:HZ	1.70	0.56
20:UQ:533:THR:HG23	20:UQ:544:LYS:HB2	1.88	0.56
21:UR:400:ILE:HG21	21:UR:425:ALA:HB3	1.87	0.56
23:UT:638:LEU:O	23:UT:642:ILE:HG12	2.06	0.56
23:UT:893:ASP:OD1	23:UT:894:ASP:N	2.39	0.56
23:UT:1410:LEU:HD21	23:UT:1412:GLU:CD	2.30	0.56
25:UV:713:LEU:O	25:UV:716:SER:OG	2.19	0.56
27:UZ:40:ILE:HG12	27:UZ:242:ILE:HG13	1.86	0.56
28:CD:73:LEU:HD23	28:CD:73:LEU:H	1.71	0.56
32:CI:93:LYS:O	32:CI:96:ASP:HB2	2.06	0.56
47:JP:58:PHE:HE2	67:D4:31:G:C4	2.24	0.56
50:DF:150:GLY:H	64:Dc:22:ARG:NH2	2.02	0.56
50:DF:200:ASN:HD21	50:DF:207:THR:C	2.13	0.56
55:DL:110:HIS:ND1	55:DL:138:ASN:OD1	2.25	0.56
56:DN:13:SER:O	63:Db:20:LYS:NZ	2.38	0.56
57:DO:40:ALA:HB3	57:DO:67:VAL:HG13	1.88	0.56
66:D3:474:A:H2'	66:D3:474:A:N3	2.20	0.56
76:EI:318:ARG:O	76:EI:322:ALA:N	2.38	0.56
1:CA:85:LYS:NZ	44:JM:171:SER:O	2.28	0.55
1:CA:212:LYS:NZ	28:CD:160:ARG:HD3	2.21	0.55
2:DA:89:ASP:OD2	2:DA:90:GLU:N	2.38	0.55
3:JA:731:GLN:O	3:JA:735:LYS:HG2	2.06	0.55
1:CB:228:GLN:O	1:CB:231:ARG:HD3	2.05	0.55
5:UB:488:ASN:HD22	5:UB:491:ASP:HB2	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:UB:525:MET:HE2	5:UB:550:VAL:HG12	1.87	0.55
7:UD:381:ASN:HA	7:UD:394:TRP:CZ2	2.41	0.55
9:UF:12:ILE:HD13	10:UG:66:LEU:HD21	1.88	0.55
14:UK:140:ARG:NH1	19:UP:166:LEU:O	2.39	0.55
16:UM:130:ASP:HB3	16:UM:133:ASN:O	2.06	0.55
16:UM:265:ALA:HB2	16:UM:288:LEU:HB2	1.88	0.55
21:UR:278:ASP:HB2	21:UR:281:THR:H	1.70	0.55
23:UT:492:GLN:HE22	23:UT:495:GLU:HB2	1.70	0.55
23:UT:978:PHE:CE2	23:UT:1024:GLN:HG3	2.40	0.55
23:UT:1421:LEU:HA	23:UT:1424:MET:SD	2.47	0.55
24:UU:131:SER:HB3	24:UU:170:LEU:HD11	1.87	0.55
25:UV:195:ILE:HD13	25:UV:364:VAL:HG23	1.88	0.55
25:UV:654:SER:OG	25:UV:666:CYS:SG	2.60	0.55
25:UV:654:SER:N	25:UV:666:CYS:O	2.39	0.55
31:CH:241:THR:HG23	31:CH:286:LEU:HD12	1.89	0.55
31:CH:304:ILE:HG13	31:CH:318:LEU:HB2	1.88	0.55
34:CK:367:ASP:OD1	34:CK:370:ARG:NH1	2.39	0.55
39:JF:47:MET:O	39:JF:117:SER:OG	2.22	0.55
66:D3:322:G:H1'	66:D3:323:A:C8	2.41	0.55
66:D3:689:G:H2'	66:D3:690:G:H8	1.72	0.55
71:ED:158:SER:O	71:ED:162:SER:N	2.40	0.55
1:CA:120:GLU:OE2	1:CA:142:ARG:HD2	2.06	0.55
3:JA:522:THR:HG21	3:JA:706:PRO:HG2	1.86	0.55
7:UD:51:PHE:CE1	7:UD:67:LEU:HB3	2.42	0.55
7:UD:563:LEU:O	13:UJ:639:ARG:NH1	2.40	0.55
10:UG:517:GLN:NE2	10:UG:521:ASP:OD2	2.39	0.55
11:UH:549:ARG:HH22	11:UH:552:LYS:HD2	1.70	0.55
11:UH:671:ARG:NH2	12:UI:450:ASN:OD1	2.34	0.55
13:UJ:695:TYR:HE1	13:UJ:702:TRP:HB3	1.71	0.55
14:UK:117:LYS:HZ2	14:UK:204:HIS:HE1	1.53	0.55
18:UO:189:TYR:OH	22:US:370:HIS:O	2.24	0.55
22:US:377:ALA:HA	22:US:380:ILE:HD12	1.87	0.55
23:UT:1119:TYR:HE2	23:UT:1157:ILE:HG13	1.71	0.55
23:UT:1292:GLY:HA2	23:UT:1298:LEU:HD12	1.88	0.55
28:CD:121:ASN:O	28:CD:125:GLN:HG2	2.06	0.55
30:CG:95:ARG:CZ	31:CH:551:ARG:HD3	2.37	0.55
35:CL:303:LYS:HE3	35:CL:787:SER:HB2	1.89	0.55
38:JC:171:ARG:CZ	43:JK:468:VAL:HA	2.36	0.55
38:JC:236:PHE:HA	38:JC:243:PHE:HA	1.86	0.55
47:JP:66:HIS:CD2	47:JP:70:VAL:HG22	2.41	0.55
55:DL:49:ILE:HG13	55:DL:50:GLU:HG2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:10:G:C2	67:D4:22:A:C2	2.94	0.55
66:D3:782:U:H4'	66:D3:783:G:OP2	2.06	0.55
4:UA:799:ILE:HD13	4:UA:824:ILE:HG23	1.87	0.55
1:CB:198:GLU:OE2	1:CB:199:PHE:N	2.35	0.55
1:CB:264:GLN:CA	1:CB:320:TYR:O	2.55	0.55
9:UF:57:ILE:HD13	9:UF:96:TYR:CZ	2.41	0.55
10:UG:206:VAL:HG12	10:UG:238:MET:HE1	1.89	0.55
10:UG:548:GLU:O	10:UG:551:SER:OG	2.13	0.55
13:UJ:759:ILE:O	13:UJ:763:LEU:HB2	2.06	0.55
15:UL:98:TYR:HB2	15:UL:102:VAL:HG23	1.89	0.55
15:UL:262:ILE:O	15:UL:270:SER:OG	2.24	0.55
15:UL:901:ASN:ND2	16:UM:760:ILE:HG23	2.21	0.55
16:UM:159:LYS:HD2	16:UM:160:ILE:HG23	1.88	0.55
18:UO:117:LEU:HD21	50:DF:124:LEU:HD11	1.88	0.55
20:UQ:820:ASP:OD1	20:UQ:821:ILE:N	2.38	0.55
21:UR:458:ILE:HD13	21:UR:484:VAL:HA	1.88	0.55
23:UT:45:SER:O	23:UT:48:LEU:N	2.39	0.55
23:UT:145:SER:HA	23:UT:148:PHE:CD1	2.42	0.55
23:UT:862:ASN:HB3	23:UT:865:VAL:HG22	1.88	0.55
24:UU:392:ARG:HE	24:UU:449:ARG:NH2	2.03	0.55
25:UV:238:HIS:HA	25:UV:241:ILE:HD12	1.89	0.55
25:UV:1162:ILE:HB	25:UV:1185:LEU:HB2	1.88	0.55
25:UV:1221:HIS:CE1	37:CN:22:ASP:HA	2.41	0.55
27:UZ:65:PHE:HD1	27:UZ:70:LEU:HD11	1.70	0.55
31:CH:278:ASP:OD1	31:CH:279:ARG:N	2.40	0.55
33:CJ:1:MET:O	33:CJ:4:ARG:N	2.38	0.55
38:JC:282:ASN:ND2	38:JC:287:ASN:OD1	2.37	0.55
47:JP:73:ILE:HD11	47:JP:366:GLY:HA3	1.89	0.55
47:JP:327:LYS:HE3	47:JP:349:GLN:HA	1.87	0.55
47:JP:402:GLU:OE1	47:JP:405:ARG:NH2	2.40	0.55
49:DE:6:LYS:NZ	66:D3:383:G:OP1	2.39	0.55
49:DE:75:LYS:NZ	66:D3:123:G:OP1	2.25	0.55
65:D2:428:A:H2'	65:D2:429:A:H8	1.71	0.55
66:D3:551:G:O6	66:D3:587:C:N4	2.38	0.55
66:D3:804:A:H2'	66:D3:805:U:C6	2.40	0.55
66:D3:1170:G:C2	66:D3:1171:A:C8	2.95	0.55
67:D4:4:G:H2'	67:D4:5:A:H8	1.72	0.55
3:JA:42:TYR:CE2	35:CL:366:MET:HE1	2.41	0.55
3:JA:748:ARG:HE	3:JA:759:THR:HG22	1.71	0.55
3:JA:822:ASN:HB3	3:JA:869:ASP:HB2	1.89	0.55
4:UA:604:TYR:HD1	4:UA:611:LEU:HA	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:UB:510:THR:HG23	5:UB:518:ILE:HG21	1.87	0.55
8:UE:142:ILE:HD11	8:UE:145:CYS:SG	2.46	0.55
10:UG:138:ASP:O	10:UG:140:ARG:N	2.40	0.55
13:UJ:176:ALA:O	13:UJ:180:ILE:HG13	2.07	0.55
14:UK:40:ASP:OD2	14:UK:43:ARG:NH1	2.39	0.55
15:UL:435:THR:OG1	15:UL:477:TRP:O	2.25	0.55
15:UL:566:TYR:CD2	15:UL:567:LEU:HB2	2.41	0.55
18:UO:260:TYR:HE1	18:UO:270:SER:HB3	1.70	0.55
21:UR:257:HIS:CD2	21:UR:258:PRO:HD2	2.42	0.55
23:UT:706:LEU:HB3	23:UT:707:PRO:HD3	1.88	0.55
23:UT:1617:VAL:HA	23:UT:1620:VAL:HG12	1.88	0.55
23:UT:1631:PHE:O	23:UT:1634:SER:OG	2.23	0.55
24:UU:168:VAL:HB	24:UU:183:VAL:HG13	1.88	0.55
24:UU:401:ARG:HD2	65:D2:278:G:O2'	2.05	0.55
25:UV:254:LEU:HD13	25:UV:270:ILE:HB	1.87	0.55
25:UV:855:LEU:HD12	25:UV:889:TYR:CD2	2.37	0.55
27:UZ:128:ASP:OD1	27:UZ:130:ARG:NH1	2.39	0.55
27:UZ:204:ILE:HG13	27:UZ:205:GLN:OE1	2.06	0.55
28:CD:281:LEU:HD22	29:CE:265:PHE:HZ	1.71	0.55
32:CI:28:ARG:NH1	65:D2:393:C:O4'	2.39	0.55
36:CM:230:TRP:O	36:CM:235:SER:OG	2.13	0.55
47:JP:326:ASP:O	47:JP:328:SER:N	2.38	0.55
56:DN:105:ASN:OD1	66:D3:879:G:O2'	2.25	0.55
65:D2:182:G:H2'	65:D2:183:A:C8	2.41	0.55
65:D2:205:C:H2'	65:D2:206:A:C8	2.42	0.55
66:D3:31:C:O2'	66:D3:547:U:H5"	2.07	0.55
66:D3:237:C:O2'	66:D3:239:C:OP2	2.23	0.55
66:D3:866:G:C2	66:D3:867:G:C8	2.94	0.55
66:D3:1590:G:N2	66:D3:1591:C:N3	2.54	0.55
3:JA:57:TRP:NE1	3:JA:125:GLN:OE1	2.39	0.55
3:JA:825:LEU:HD12	3:JA:830:LEU:HD21	1.88	0.55
3:JA:913:PHE:HA	3:JA:916:ILE:HD12	1.87	0.55
3:JB:567:LEU:O	3:JB:583:LEU:N	2.24	0.55
8:UE:259:PRO:HG2	8:UE:260:LEU:HD12	1.89	0.55
9:UF:197:ILE:HD12	9:UF:200:ARG:HH21	1.72	0.55
11:UH:558:CYS:H	11:UH:585:ARG:NH1	1.99	0.55
13:UJ:1704:LYS:O	13:UJ:1708:ILE:HG13	2.07	0.55
16:UM:498:SER:HB2	16:UM:539:VAL:HG13	1.87	0.55
20:UQ:850:GLU:HA	20:UQ:853:ILE:HD13	1.89	0.55
22:US:341:LEU:O	22:US:344:ILE:HG22	2.06	0.55
23:UT:1101:GLN:HA	23:UT:1143:LYS:HE3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UU:50:ILE:HD13	24:UU:311:VAL:HG11	1.89	0.55
25:UV:177:ASN:HD21	25:UV:179:LYS:HG2	1.71	0.55
26:UX:62:PRO:HB3	26:UX:93:LYS:HB3	1.87	0.55
26:UX:178:HIS:ND1	66:D3:370:A:N1	2.55	0.55
28:CD:24:GLN:HE21	28:CD:123:LEU:HD12	1.71	0.55
29:CE:88:ILE:HG22	29:CE:117:TYR:HE1	1.72	0.55
29:CE:191:HIS:HD1	29:CE:247:ILE:HG12	1.71	0.55
31:CH:452:SER:HB3	31:CH:460:ARG:HA	1.88	0.55
33:CJ:191:PHE:CD2	33:CJ:203:VAL:HG23	2.42	0.55
34:CK:347:PHE:HD1	34:CK:348:ASP:O	1.90	0.55
37:CN:64:ILE:HA	37:CN:67:MET:SD	2.46	0.55
39:JF:94:GLN:HA	39:JF:97:LEU:HD12	1.87	0.55
47:JP:66:HIS:HE1	47:JP:93:LYS:HG3	1.72	0.55
47:JP:217:TRP:HZ2	47:JP:465:VAL:HG11	1.71	0.55
56:DN:117:LEU:O	56:DN:120:SER:OG	2.22	0.55
60:DW:36:LYS:HA	60:DW:39:GLN:OE1	2.06	0.55
65:D2:465:G:H2'	65:D2:466:A:H8	1.72	0.55
66:D3:390:G:H2'	66:D3:391:A:C8	2.42	0.55
66:D3:1038:U:H2'	66:D3:1039:A:C8	2.41	0.55
66:D3:1164:G:H2'	66:D3:1165:G:C8	2.41	0.55
1:CA:202:ARG:HH22	30:CG:68:PRO:HB2	1.71	0.55
2:DA:144:ARG:HD3	2:DA:208:GLN:HB3	1.89	0.55
3:JA:894:ASN:O	3:JA:897:THR:OG1	2.17	0.55
5:UB:482:GLN:HB2	5:UB:486:LYS:HZ1	1.68	0.55
5:UB:784:ILE:O	5:UB:787:THR:HG22	2.06	0.55
8:UE:108:LYS:HE2	8:UE:122:SER:HB2	1.89	0.55
8:UE:548:ASP:OD1	18:UO:488:LYS:HE2	2.06	0.55
9:UF:169:GLN:CD	17:UN:339:GLN:HE22	2.15	0.55
13:UJ:1516:PHE:HB2	13:UJ:1521:ILE:HD11	1.89	0.55
15:UL:565:PHE:O	36:CM:207:ARG:NH1	2.38	0.55
17:UN:337:GLU:CD	17:UN:337:GLU:H	2.14	0.55
22:US:165:ASP:N	22:US:171:ALA:O	2.38	0.55
23:UT:746:ILE:HA	23:UT:749:LYS:HE2	1.89	0.55
23:UT:1358:LYS:O	23:UT:1364:ARG:NH1	2.40	0.55
24:UU:501:HIS:NE2	24:UU:519:SER:OG	2.36	0.55
24:UU:589:THR:OG1	24:UU:590:ALA:N	2.38	0.55
25:UV:126:LYS:HZ1	25:UV:283:TYR:HA	1.72	0.55
25:UV:699:GLU:HA	25:UV:702:LYS:HD2	1.88	0.55
28:CD:219:LEU:O	28:CD:223:ILE:HG22	2.06	0.55
33:CJ:279:ARG:NH2	35:CL:975:GLU:OE2	2.26	0.55
37:CN:219:ASN:ND2	66:D3:1057:U:O2	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:JF:41:MET:SD	39:JF:202:ILE:HG23	2.46	0.55
39:JF:246:GLU:HG2	39:JF:251:ILE:HD12	1.89	0.55
47:JP:304:HIS:CE1	47:JP:324:SER:HB3	2.41	0.55
55:DL:85:VAL:HA	55:DL:108:PRO:HA	1.89	0.55
66:D3:880:C:H2'	66:D3:881:A:H8	1.72	0.55
66:D3:1638:G:O2'	66:D3:1639:C:O5'	2.20	0.55
4:UA:73:ILE:CD1	4:UA:102:VAL:HG21	2.36	0.55
4:UA:620:ASN:OD1	4:UA:621:MET:N	2.40	0.55
1:CB:286:PHE:CZ	1:CB:314:CYS:HB3	2.42	0.55
5:UB:517:VAL:C	5:UB:520:PRO:HD2	2.32	0.55
5:UB:529:LEU:HD11	5:UB:567:PHE:CG	2.42	0.55
8:UE:8:SER:HB2	8:UE:17:LEU:HD21	1.89	0.55
9:UF:121:GLY:HA2	9:UF:124:THR:HB	1.89	0.55
10:UG:77:GLU:OE2	47:JP:2:LYS:N	2.40	0.55
10:UG:228:LEU:HD23	10:UG:259:TRP:CE3	2.42	0.55
12:UI:462:LEU:HB3	12:UI:463:LYS:HE2	1.89	0.55
13:UJ:535:ALA:HB3	13:UJ:540:LYS:HE3	1.88	0.55
15:UL:8:PHE:CZ	15:UL:686:GLU:HB3	2.41	0.55
20:UQ:174:TYR:CD1	20:UQ:189:HIS:HA	2.41	0.55
20:UQ:623:PHE:CE1	20:UQ:632:ILE:HD13	2.42	0.55
20:UQ:779:ILE:HG13	20:UQ:780:GLU:N	2.21	0.55
23:UT:930:PHE:HD1	23:UT:964:PHE:HE1	1.53	0.55
28:CD:277:ARG:CZ	29:CE:264:GLU:HB3	2.36	0.55
29:CE:280:MET:HA	29:CE:283:ILE:HG22	1.88	0.55
35:CL:555:MET:O	36:CM:327:ARG:NH2	2.39	0.55
39:JG:198:ASP:OD1	39:JG:199:ASP:N	2.37	0.55
42:JJ:142:ASN:HB2	42:JJ:145:PHE:HB3	1.89	0.55
50:DF:146:THR:OG1	50:DF:157:ARG:HB3	2.06	0.55
53:DI:27:PHE:O	66:D3:333:A:N6	2.40	0.55
54:DJ:82:ARG:HE	54:DJ:149:ARG:HE	1.54	0.55
56:DN:69:ASN:HB3	56:DN:73:ARG:HB3	1.88	0.55
65:D2:300:C:H2'	65:D2:301:U:C6	2.41	0.55
66:D3:209:U:H2'	66:D3:210:A:C8	2.42	0.55
66:D3:336:G:H3'	66:D3:338:C:H5	1.70	0.55
66:D3:693:U:H2'	66:D3:695:U:H3'	1.89	0.55
66:D3:972:G:H2'	66:D3:973:A:H8	1.71	0.55
66:D3:1788:G:H2'	66:D3:1789:G:C8	2.42	0.55
79:EN:921:GLU:O	79:EN:925:ASN:N	2.40	0.55
2:DA:33:LYS:HB3	2:DA:97:LEU:HD23	1.88	0.55
3:JA:871:MET:HA	3:JA:874:SER:HB2	1.88	0.55
4:UA:25:ASP:OD1	4:UA:26:GLY:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:376:SER:O	4:UA:378:PHE:N	2.40	0.55
4:UA:612:LEU:CD2	24:UU:513:MET:HE1	2.37	0.55
6:UC:521:ARG:NH1	35:CL:1046:THR:HG23	2.20	0.55
7:UD:202:ILE:HD11	7:UD:267:PHE:CE2	2.42	0.55
7:UD:522:SER:HA	7:UD:528:ILE:HD11	1.89	0.55
8:UE:546:ARG:NH1	11:UH:681:THR:OG1	2.39	0.55
9:UF:2:SER:OG	9:UF:3:LYS:N	2.39	0.55
10:UG:161:GLN:HE22	32:CI:18:PHE:HE2	1.55	0.55
10:UG:198:PHE:HE2	10:UG:200:PRO:HA	1.72	0.55
10:UG:288:TYR:HB2	10:UG:345:LEU:HD23	1.89	0.55
16:UM:560:TRP:HE1	16:UM:567:VAL:HG12	1.72	0.55
16:UM:647:CYS:SG	16:UM:650:GLN:NE2	2.80	0.55
20:UQ:201:ILE:C	20:UQ:264:ILE:HD13	2.32	0.55
21:UR:159:HIS:HB3	21:UR:163:ARG:HH21	1.72	0.55
21:UR:164:LEU:CD2	24:UU:175:THR:HG22	2.36	0.55
22:US:229:CYS:HB2	22:US:253:PHE:CE2	2.41	0.55
23:UT:316:LYS:O	23:UT:319:THR:OG1	2.23	0.55
23:UT:393:PHE:CZ	23:UT:397:PHE:HE2	2.25	0.55
23:UT:863:THR:HG22	23:UT:867:LYS:NZ	2.22	0.55
23:UT:1696:TYR:HA	23:UT:1699:LYS:HZ3	1.72	0.55
24:UU:168:VAL:N	24:UU:183:VAL:O	2.30	0.55
24:UU:591:PHE:HA	24:UU:601:VAL:O	2.06	0.55
24:UU:889:PHE:O	24:UU:893:GLY:N	2.38	0.55
25:UV:114:VAL:HG22	25:UV:195:ILE:HB	1.88	0.55
25:UV:141:TRP:HE3	25:UV:144:LYS:HZ3	1.55	0.55
25:UV:180:LYS:HD3	25:UV:181:PRO:HD2	1.89	0.55
25:UV:439:HIS:CE1	25:UV:460:GLU:HB2	2.41	0.55
44:JM:172:THR:HG22	44:JM:175:GLU:HG2	1.89	0.55
56:DN:20:ARG:HH22	66:D3:862:A:P	2.30	0.55
60:DW:55:ASP:HB2	60:DW:57:ARG:HH11	1.72	0.55
60:DW:118:ARG:HH21	60:DW:119:LYS:NZ	2.03	0.55
65:D2:221:U:H2'	65:D2:222:G:C8	2.41	0.55
66:D3:930:A:H5'	66:D3:931:C:OP2	2.06	0.55
66:D3:1592:A:H2'	66:D3:1593:A:C8	2.41	0.55
71:ED:243:LEU:N	71:ED:282:VAL:O	2.37	0.55
79:EN:465:LEU:O	79:EN:469:ARG:N	2.39	0.55
2:DA:97:LEU:HB3	2:DA:232:HIS:CE1	2.41	0.55
3:JA:524:PHE:HZ	3:JA:556:MET:HG3	1.72	0.55
3:JA:894:ASN:HB3	3:JA:897:THR:HG23	1.87	0.55
1:CB:159:LEU:HD22	1:CB:162:LEU:HB2	1.88	0.55
1:CB:227:PRO:HA	1:CB:230:TYR:CZ	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UD:309:GLN:HB2	7:UD:320:TRP:CZ3	2.42	0.55
7:UD:385:ASN:HD21	7:UD:387:GLU:HB2	1.71	0.55
11:UH:610:PHE:O	11:UH:614:ILE:HG12	2.07	0.55
13:UJ:1682:GLU:OE1	13:UJ:1682:GLU:N	2.34	0.55
15:UL:640:LYS:HD3	15:UL:652:LYS:HZ3	1.72	0.55
21:UR:257:HIS:CG	21:UR:258:PRO:HD2	2.41	0.55
21:UR:258:PRO:HB3	21:UR:469:PRO:HG2	1.89	0.55
24:UU:594:SER:OG	24:UU:596:GLU:HG2	2.07	0.55
25:UV:366:GLY:HA2	25:UV:422:PHE:HE1	1.70	0.55
25:UV:708:LEU:HD21	25:UV:954:LEU:HD21	1.88	0.55
27:UZ:57:ILE:O	27:UZ:186:ASN:HB2	2.07	0.55
29:CE:338:LYS:HG3	29:CE:339:TYR:CD1	2.41	0.55
30:CF:78:TYR:C	30:CF:121:ILE:HD11	2.32	0.55
35:CL:776:GLN:HG2	35:CL:781:GLU:HG3	1.89	0.55
35:CL:833:ARG:CZ	35:CL:834:TRP:HE1	2.20	0.55
38:JC:153:LEU:HD23	38:JC:167:LEU:HD11	1.88	0.55
39:JF:161:LYS:HG2	39:JF:163:ILE:HG23	1.88	0.55
42:JJ:248:VAL:HA	42:JJ:251:ILE:HG12	1.87	0.55
50:DF:72:HIS:CG	50:DF:72:HIS:O	2.59	0.55
66:D3:32:U:O2'	66:D3:546:U:O2'	2.24	0.55
66:D3:759:U:H5	66:D3:761:G:H21	1.54	0.55
66:D3:760:A:C5	66:D3:761:G:H1'	2.41	0.55
67:D4:150:A:H61	67:D4:163:U:H3	1.55	0.55
1:CB:236:MET:HG3	29:CE:122:GLU:HA	1.89	0.55
7:UD:49:LEU:HB2	7:UD:337:CYS:SG	2.47	0.55
15:UL:19:SER:OG	15:UL:20:ASN:N	2.40	0.55
16:UM:337:HIS:HA	16:UM:363:ARG:HH22	1.72	0.55
18:UO:455:SER:O	18:UO:459:VAL:HG12	2.06	0.55
20:UQ:154:LEU:HD11	20:UQ:171:TYR:HB3	1.88	0.55
20:UQ:401:GLN:HB2	20:UQ:412:ASN:HD21	1.71	0.55
23:UT:725:ASN:OD1	23:UT:747:TRP:NE1	2.39	0.55
23:UT:1075:TRP:CB	23:UT:1079:MET:HE3	2.37	0.55
23:UT:1673:VAL:HA	23:UT:1676:GLU:OE1	2.07	0.55
25:UV:688:LYS:HE2	25:UV:689:HIS:CD2	2.42	0.55
29:CE:250:THR:O	29:CE:254:ASN:ND2	2.40	0.55
31:CH:492:TRP:CD1	31:CH:556:VAL:HG21	2.42	0.55
32:CI:81:LYS:NZ	34:CK:449:ASP:OD1	2.32	0.55
32:CI:113:VAL:HG22	32:CI:124:ILE:HD11	1.88	0.55
34:CK:524:ASP:OD1	34:CK:527:ARG:NE	2.31	0.55
35:CL:760:LYS:O	35:CL:763:GLU:HG3	2.06	0.55
38:JC:185:HIS:ND1	38:JC:234:THR:OG1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:JM:203:LYS:O	44:JM:206:TYR:N	2.40	0.55
46:JO:273:LYS:HA	46:JO:276:LYS:HD3	1.88	0.55
47:JP:146:LYS:HB3	47:JP:148:TRP:NE1	2.22	0.55
50:DF:35:GLN:O	50:DF:38:THR:OG1	2.18	0.55
51:DG:46:LYS:N	51:DG:119:GLN:OE1	2.34	0.55
56:DN:31:GLU:H	56:DN:31:GLU:CD	2.14	0.55
56:DN:96:VAL:HG22	56:DN:146:ALA:HB1	1.89	0.55
57:DO:42:VAL:HG23	57:DO:63:ALA:HB1	1.88	0.55
62:DY:112:LYS:NZ	66:D3:55:A:OP1	2.36	0.55
63:Db:47:PHE:HE2	63:Db:49:HIS:HB2	1.71	0.55
65:D2:191:U:H2'	65:D2:192:G:C8	2.42	0.55
66:D3:322:G:O6	66:D3:344:A:N6	2.39	0.55
66:D3:542:A:O2'	66:D3:543:C:H2'	2.07	0.55
66:D3:1062:A:O2'	66:D3:1063:U:O5'	2.25	0.55
3:JA:70:ARG:NH1	66:D3:415:C:OP1	2.37	0.54
3:JA:75:ASN:HA	3:JA:78:LYS:NZ	2.18	0.54
4:UA:405:SER:CB	4:UA:436:LEU:HD23	2.36	0.54
1:CB:144:TRP:HZ3	1:CB:155:ILE:HG13	1.71	0.54
7:UD:265:TRP:CD1	7:UD:272:LEU:HA	2.39	0.54
7:UD:363:SER:O	7:UD:367:GLY:N	2.23	0.54
7:UD:574:HIS:CE1	7:UD:637:PHE:HA	2.41	0.54
9:UF:166:ASN:HA	9:UF:169:GLN:HE21	1.70	0.54
10:UG:140:ARG:HE	13:UJ:20:LEU:CD1	2.20	0.54
13:UJ:193:THR:HG21	13:UJ:237:ILE:HG23	1.90	0.54
15:UL:197:ILE:O	16:UM:671:ASN:ND2	2.32	0.54
16:UM:337:HIS:HA	16:UM:363:ARG:HH12	1.72	0.54
20:UQ:152:ARG:HE	20:UQ:231:PHE:HA	1.72	0.54
20:UQ:472:TYR:CD2	20:UQ:478:ASN:HB3	2.42	0.54
23:UT:172:LEU:HD23	23:UT:176:LEU:HD23	1.88	0.54
23:UT:920:VAL:HG13	23:UT:921:VAL:HG13	1.89	0.54
24:UU:141:LYS:HE2	24:UU:154:TYR:CD1	2.43	0.54
24:UU:370:SER:O	24:UU:373:ARG:N	2.40	0.54
24:UU:840:PHE:HB3	24:UU:844:ALA:HB3	1.89	0.54
29:CE:322:ALA:H	29:CE:340:GLY:HA2	1.71	0.54
33:CJ:100:LEU:HD22	33:CJ:144:GLU:HB3	1.89	0.54
34:CK:341:LEU:HD11	35:CL:956:MET:CB	2.37	0.54
36:CM:156:ARG:HE	36:CM:230:TRP:CD1	2.25	0.54
38:JC:59:SER:N	38:JC:333:ASN:O	2.40	0.54
38:JC:101:ASN:ND2	38:JC:104:PHE:HB3	2.22	0.54
46:JO:92:ALA:HB3	57:DO:103:ARG:HE	1.72	0.54
51:DG:171:LYS:NZ	66:D3:68:A:OP2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:DJ:89:ASP:OD1	54:DJ:90:LYS:N	2.40	0.54
65:D2:83:U:O2'	65:D2:84:G:OP2	2.24	0.54
65:D2:410:A:H2'	65:D2:411:A:C8	2.43	0.54
66:D3:94:U:H2'	66:D3:95:G:O4'	2.06	0.54
66:D3:592:A:N7	66:D3:593:U:N3	2.54	0.54
69:EB:107:ILE:O	69:EB:111:SER:N	2.37	0.54
79:EN:684:VAL:HA	79:EN:766:SER:HA	1.89	0.54
4:UA:335:GLU:O	24:UU:745:LYS:HG2	2.05	0.54
4:UA:400:GLN:O	4:UA:416:LEU:HB2	2.07	0.54
1:CB:179:THR:O	1:CB:182:SER:OG	2.20	0.54
1:CB:241:PHE:CD1	1:CB:268:VAL:HG13	2.42	0.54
8:UE:461:ASP:O	8:UE:465:ILE:HG12	2.07	0.54
11:UH:182:THR:HA	11:UH:206:LEU:HA	1.89	0.54
11:UH:599:MET:HE1	11:UH:640:LEU:HB3	1.89	0.54
13:UJ:65:LYS:NZ	21:UR:45:ILE:HB	2.23	0.54
15:UL:299:ARG:NH2	15:UL:320:SER:OG	2.40	0.54
15:UL:662:ALA:HB3	15:UL:675:SER:HB3	1.88	0.54
16:UM:771:LYS:O	16:UM:775:ILE:HG12	2.07	0.54
18:UO:5:ARG:CZ	18:UO:393:ASN:HD21	2.20	0.54
18:UO:125:HIS:HB3	18:UO:145:ASP:HB2	1.88	0.54
18:UO:418:LEU:HD12	18:UO:462:TRP:CE2	2.43	0.54
20:UQ:33:ASN:HD22	20:UQ:345:GLN:HE22	1.53	0.54
22:US:258:GLU:OE1	22:US:289:PHE:HA	2.07	0.54
23:UT:1938:ALA:O	23:UT:1942:LEU:HD23	2.07	0.54
25:UV:363:THR:HA	25:UV:393:PHE:HE2	1.72	0.54
25:UV:1086:ASN:O	25:UV:1090:THR:HG23	2.08	0.54
27:UZ:74:LEU:HD12	27:UZ:97:PHE:CZ	2.43	0.54
29:CE:180:TYR:HB3	29:CE:262:ILE:HD11	1.90	0.54
31:CH:203:ASP:OD2	31:CH:206:LYS:N	2.27	0.54
32:CI:85:MET:SD	34:CK:448:LEU:HD22	2.47	0.54
34:CK:538:LYS:HG2	66:D3:1628:U:C4	2.42	0.54
35:CL:267:ARG:HD2	35:CL:801:VAL:HG11	1.88	0.54
35:CL:772:MET:HE1	35:CL:775:GLU:HB3	1.89	0.54
35:CL:948:ILE:HB	35:CL:987:TYR:CZ	2.42	0.54
50:DF:34:GLN:O	50:DF:37:GLN:HG3	2.07	0.54
50:DF:80:LYS:HG3	50:DF:81:ARG:H	1.72	0.54
57:DO:123:SER:OG	66:D3:886:U:H1'	2.07	0.54
58:DQ:5:PRO:HG2	58:DQ:24:ALA:HB3	1.89	0.54
61:DX:70:LYS:O	61:DX:87:VAL:HG12	2.06	0.54
65:D2:312:U:O2'	65:D2:313:A:H5'	2.07	0.54
66:D3:629:U:H2'	66:D3:630:A:C8	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:683:C:H2'	66:D3:684:A:C8	2.40	0.54
66:D3:1164:G:H2'	66:D3:1165:G:H8	1.72	0.54
77:EJ:159:GLU:HA	77:EJ:188:PHE:HA	1.89	0.54
4:UA:495:LYS:HA	4:UA:516:SER:O	2.08	0.54
4:UA:531:ALA:HB2	4:UA:585:TYR:OH	2.07	0.54
4:UA:575:GLU:OE1	32:CI:163:ASN:HB3	2.07	0.54
1:CB:236:MET:HE2	29:CE:121:LYS:HZ2	1.71	0.54
5:UB:445:VAL:HG23	5:UB:449:LYS:HB3	1.89	0.54
6:UC:596:THR:HG22	44:JM:137:LYS:HG3	1.87	0.54
7:UD:104:TRP:HE1	7:UD:114:LEU:HD13	1.72	0.54
7:UD:265:TRP:HE1	7:UD:272:LEU:HD12	1.72	0.54
8:UE:143:ASN:OD1	8:UE:144:ASN:N	2.41	0.54
9:UF:172:LEU:HD12	9:UF:182:TRP:CZ2	2.43	0.54
11:UH:670:GLU:O	11:UH:673:THR:OG1	2.12	0.54
13:UJ:279:MET:HG2	13:UJ:299:ILE:HG12	1.89	0.54
13:UJ:1517:ASP:O	13:UJ:1521:ILE:HG12	2.07	0.54
14:UK:162:SER:HA	14:UK:165:ARG:HH21	1.71	0.54
15:UL:672:VAL:O	15:UL:683:ILE:HA	2.08	0.54
19:UP:208:ARG:HG2	19:UP:210:ALA:H	1.72	0.54
20:UQ:534:LYS:HG3	20:UQ:535:ASN:O	2.08	0.54
21:UR:400:ILE:HD11	21:UR:404:ILE:HG23	1.88	0.54
22:US:317:ILE:HG23	22:US:358:PHE:HD1	1.71	0.54
23:UT:260:HIS:O	23:UT:264:THR:HG23	2.08	0.54
23:UT:884:TYR:HE2	23:UT:917:ASP:HB3	1.71	0.54
23:UT:1002:ASN:HA	23:UT:1005:ASN:HD21	1.72	0.54
23:UT:1508:GLN:HG2	23:UT:1547:LEU:HD22	1.89	0.54
31:CH:425:TRP:CH2	31:CH:432:PRO:HG3	2.42	0.54
31:CH:437:ARG:O	31:CH:439:ALA:N	2.32	0.54
35:CL:246:ALA:HB3	35:CL:810:ILE:HG13	1.88	0.54
35:CL:628:VAL:O	35:CL:631:ILE:HG22	2.07	0.54
37:CN:257:PHE:N	37:CN:261:GLN:OE1	2.39	0.54
38:JC:255:TYR:HD1	38:JC:262:PRO:HA	1.72	0.54
51:DG:79:LYS:HD3	51:DG:90:GLY:H	1.72	0.54
55:DL:140:VAL:C	55:DL:141:LYS:HD3	2.33	0.54
58:DQ:42:GLU:HG2	58:DQ:45:ARG:NH2	2.19	0.54
66:D3:248:U:C4	66:D3:250:C:H1'	2.42	0.54
66:D3:1465:C:C2	66:D3:1466:G:C8	2.95	0.54
66:D3:1484:G:O2'	66:D3:1606:C:O2'	2.24	0.54
4:UA:6:LYS:NZ	4:UA:51:GLU:OE1	2.40	0.54
4:UA:524:ARG:HG3	4:UA:585:TYR:CD2	2.42	0.54
7:UD:760:LEU:HD23	7:UD:760:LEU:H	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:213:ASN:ND2	8:UE:215:TYR:OH	2.38	0.54
13:UJ:250:SER:HB2	13:UJ:253:CYS:SG	2.47	0.54
16:UM:278:LEU:HD12	16:UM:279:LYS:HB2	1.90	0.54
16:UM:401:LEU:HA	16:UM:417:TYR:HB3	1.88	0.54
18:UO:127:THR:HA	18:UO:144:SER:HA	1.89	0.54
18:UO:479:VAL:O	18:UO:483:LEU:HG	2.08	0.54
20:UQ:24:ASN:OD1	20:UQ:25:LEU:N	2.41	0.54
20:UQ:345:GLN:OE1	20:UQ:345:GLN:N	2.40	0.54
23:UT:974:TYR:CG	23:UT:1024:GLN:HB3	2.43	0.54
23:UT:1075:TRP:HB2	23:UT:1079:MET:HE3	1.89	0.54
23:UT:1178:CYS:HA	23:UT:1181:ILE:HG22	1.87	0.54
23:UT:1724:ASN:HA	23:UT:1729:ALA:HB3	1.90	0.54
23:UT:1940:LYS:O	23:UT:1944:ILE:HG12	2.07	0.54
25:UV:140:ASP:HB3	25:UV:178:TYR:O	2.08	0.54
25:UV:765:LEU:O	25:UV:914:ARG:NH2	2.25	0.54
25:UV:1202:CYS:SG	25:UV:1203:ASN:N	2.80	0.54
31:CH:359:PHE:HB3	31:CH:425:TRP:CZ3	2.43	0.54
33:CJ:139:LEU:HD22	33:CJ:157:PHE:HZ	1.73	0.54
36:CM:145:GLY:HA2	36:CM:147:ARG:HH22	1.72	0.54
47:JP:270:ASN:HA	47:JP:313:PHE:HD2	1.72	0.54
50:DF:183:ALA:HB2	50:DF:193:THR:HG21	1.90	0.54
52:DH:131:PHE:CG	52:DH:132:PRO:HA	2.43	0.54
58:DQ:4:VAL:HG21	58:DQ:23:LYS:HE3	1.89	0.54
66:D3:863:A:C5	66:D3:865:A:C8	2.95	0.54
66:D3:868:G:H2'	66:D3:869:A:C8	2.40	0.54
73:EF:259:VAL:O	73:EF:263:GLU:N	2.32	0.54
3:JA:82:LYS:CE	62:DY:114:ARG:HG3	2.38	0.54
1:CB:294:ARG:HE	19:UP:181:LEU:HD23	1.71	0.54
5:UB:281:LYS:HA	40:JH:383:PRO:HA	1.90	0.54
5:UB:453:ASN:HA	5:UB:456:ILE:HD12	1.88	0.54
7:UD:157:SER:HB3	7:UD:195:TRP:HZ2	1.73	0.54
11:UH:542:SER:HA	11:UH:545:ARG:HD2	1.89	0.54
12:UI:417:LYS:HG2	12:UI:455:TRP:CZ2	2.41	0.54
13:UJ:1358:CYS:HA	13:UJ:1361:VAL:HG12	1.90	0.54
15:UL:281:ILE:HB	15:UL:332:ILE:HB	1.89	0.54
15:UL:357:THR:OG1	15:UL:361:THR:OG1	1.99	0.54
16:UM:248:PHE:HB3	16:UM:256:ARG:CZ	2.37	0.54
20:UQ:604:PHE:HB3	20:UQ:606:HIS:CD2	2.43	0.54
20:UQ:769:ASN:HB3	20:UQ:773:ASP:OD1	2.07	0.54
20:UQ:780:GLU:O	20:UQ:782:THR:N	2.38	0.54
21:UR:128:SER:O	21:UR:132:LYS:HE3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:US:395:ILE:HA	22:US:398:VAL:HG12	1.89	0.54
23:UT:439:VAL:HA	23:UT:442:LYS:HE2	1.90	0.54
23:UT:992:LYS:O	23:UT:996:ARG:HG2	2.07	0.54
24:UU:50:ILE:HD11	24:UU:311:VAL:HG21	1.89	0.54
25:UV:218:ASP:OD2	25:UV:227:LYS:NZ	2.35	0.54
25:UV:858:ARG:HA	25:UV:861:ILE:HD12	1.88	0.54
27:UZ:226:LYS:HA	27:UZ:229:ARG:HH21	1.72	0.54
29:CE:39:LEU:HD23	29:CE:43:LYS:HD2	1.90	0.54
31:CH:440:HIS:CG	31:CH:491:SER:HG	2.25	0.54
34:CK:480:GLN:NE2	34:CK:482:LEU:HB2	2.19	0.54
35:CL:254:HIS:HB3	35:CL:256:GLU:CD	2.31	0.54
36:CM:46:LYS:N	36:CM:49:GLU:OE1	2.41	0.54
38:JC:151:CYS:HB2	38:JC:167:LEU:HB2	1.88	0.54
38:JC:349:SER:OG	38:JC:353:CYS:SG	2.53	0.54
39:JF:218:ASP:HA	39:JF:221:VAL:HG12	1.90	0.54
42:JJ:196:ASP:OD1	42:JJ:197:HIS:N	2.40	0.54
49:DE:124:GLY:HA2	49:DE:142:HIS:HE1	1.73	0.54
51:DG:7:TYR:CD2	51:DG:10:ASN:HB2	2.43	0.54
52:DH:97:ARG:NH1	66:D3:693:U:O2'	2.41	0.54
52:DH:103:SER:OG	52:DH:104:ARG:N	2.40	0.54
58:DQ:13:LYS:HG3	58:DQ:14:LYS:H	1.73	0.54
66:D3:1745:G:H2'	66:D3:1746:A:O4'	2.07	0.54
75:EH:84:TYR:N	75:EH:97:LEU:O	2.36	0.54
79:EN:86:GLU:HA	79:EN:120:ARG:HA	1.89	0.54
3:JA:82:LYS:HE2	62:DY:114:ARG:HG3	1.90	0.54
3:JA:906:SER:OG	3:JA:907:ASN:N	2.39	0.54
4:UA:440:PRO:HB3	4:UA:483:GLN:NE2	2.22	0.54
3:JB:748:ARG:N	3:JB:759:THR:O	2.32	0.54
7:UD:83:ASN:ND2	7:UD:587:ALA:O	2.40	0.54
7:UD:525:VAL:HG11	7:UD:528:ILE:HG23	1.90	0.54
10:UG:373:PHE:HZ	10:UG:392:VAL:HG21	1.73	0.54
11:UH:293:TYR:HA	11:UH:304:GLN:HA	1.88	0.54
13:UJ:741:LEU:HD21	13:UJ:752:ALA:HB3	1.89	0.54
14:UK:77:LEU:HD11	35:CL:1071:LYS:NZ	2.23	0.54
15:UL:753:MET:HE1	64:Dc:64:ARG:HH22	1.71	0.54
20:UQ:476:GLY:H	20:UQ:478:ASN:HD21	1.56	0.54
20:UQ:877:ASP:O	20:UQ:880:GLN:NE2	2.31	0.54
21:UR:319:ARG:HD3	21:UR:353:ARG:NH1	2.21	0.54
23:UT:299:TYR:O	23:UT:303:ASN:ND2	2.40	0.54
23:UT:465:PHE:CE2	23:UT:482:ARG:HB3	2.43	0.54
23:UT:719:LEU:O	23:UT:754:ASN:ND2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:849:GLU:OE2	23:UT:853:HIS:NE2	2.41	0.54
23:UT:1394:LEU:HG	23:UT:1398:LEU:HD12	1.89	0.54
25:UV:167:PRO:HD3	25:UV:226:HIS:CE1	2.43	0.54
25:UV:528:ASP:OD2	25:UV:614:ARG:NE	2.41	0.54
29:CE:58:GLU:OE2	29:CE:147:ILE:HA	2.07	0.54
29:CE:75:LEU:O	29:CE:79:ILE:HG23	2.07	0.54
32:CI:61:LEU:HD23	32:CI:64:LEU:HD12	1.89	0.54
34:CK:426:LEU:O	34:CK:427:SER:OG	2.22	0.54
35:CL:107:VAL:HG22	35:CL:354:ILE:HG22	1.90	0.54
35:CL:879:THR:HB	66:D3:572:C:C4	2.42	0.54
36:CM:182:GLU:OE2	36:CM:184:ASP:N	2.33	0.54
38:JC:83:VAL:HG12	38:JC:92:LYS:HB3	1.89	0.54
39:JG:192:TYR:O	39:JG:196:LEU:HG	2.08	0.54
47:JP:278:VAL:HG13	47:JP:313:PHE:HZ	1.71	0.54
50:DF:200:ASN:HA	50:DF:203:LYS:NZ	2.22	0.54
52:DH:121:VAL:O	52:DH:125:ILE:HD12	2.06	0.54
54:DJ:110:GLN:HG3	54:DJ:111:THR:H	1.72	0.54
55:DL:99:ARG:NE	55:DL:100:TYR:O	2.40	0.54
57:DO:68:ALA:O	57:DO:72:LYS:HG2	2.08	0.54
66:D3:486:G:H4'	66:D3:487:G:H5'	1.90	0.54
66:D3:500:C:O2'	66:D3:501:U:O5'	2.24	0.54
67:D4:14:A:H3'	67:D4:15:U:C6	2.43	0.54
1:CA:189:GLY:O	1:CA:216:ASN:ND2	2.41	0.54
3:JA:533:PHE:HE1	3:JA:579:ILE:HG13	1.73	0.54
4:UA:220:PHE:CE1	4:UA:247:SER:HA	2.42	0.54
4:UA:429:GLU:C	4:UA:430:ARG:HD3	2.33	0.54
4:UA:689:THR:O	4:UA:819:THR:OG1	2.24	0.54
5:UB:700:LEU:HD12	22:US:463:LEU:H	1.73	0.54
9:UF:94:PHE:HE1	9:UF:98:ARG:HH11	1.53	0.54
9:UF:96:TYR:HD1	9:UF:113:TYR:HB2	1.73	0.54
12:UI:429:HIS:HA	12:UI:432:LYS:HE2	1.90	0.54
13:UJ:290:GLU:H	13:UJ:290:GLU:CD	2.16	0.54
13:UJ:712:ASN:OD1	13:UJ:714:GLU:HG3	2.07	0.54
14:UK:161:ARG:CZ	14:UK:164:ASN:HB3	2.38	0.54
14:UK:247:GLN:HE22	21:UR:515:THR:HB	1.71	0.54
15:UL:273:TYR:HE2	15:UL:275:GLN:HB2	1.71	0.54
15:UL:629:ASN:HB3	15:UL:641:TYR:CE1	2.43	0.54
18:UO:96:LEU:HD23	18:UO:108:TYR:O	2.07	0.54
20:UQ:401:GLN:O	20:UQ:412:ASN:ND2	2.41	0.54
20:UQ:471:GLN:NE2	20:UQ:541:TRP:H	2.02	0.54
23:UT:523:LEU:HD22	23:UT:561:LEU:HD11	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:754:ASN:OD1	23:UT:755:THR:N	2.39	0.54
23:UT:783:LEU:HD11	23:UT:830:VAL:HB	1.89	0.54
23:UT:906:THR:HB	53:DI:77:ARG:HH22	1.73	0.54
25:UV:213:LEU:O	25:UV:227:LYS:NZ	2.37	0.54
29:CE:65:GLU:O	29:CE:93:LYS:NZ	2.34	0.54
29:CE:171:ASP:OD1	29:CE:298:ARG:NH2	2.41	0.54
31:CH:198:LYS:NZ	31:CH:266:GLU:O	2.40	0.54
37:CN:151:HIS:CE1	37:CN:153:ASN:HB3	2.42	0.54
39:JG:73:HIS:N	39:JG:74:GLN:OE1	2.41	0.54
49:DE:125:LYS:HB2	49:DE:226:PHE:CE1	2.42	0.54
52:DH:31:SER:CB	52:DH:34:LEU:HB3	2.38	0.54
60:DW:78:ARG:NH1	66:D3:805:U:O2'	2.40	0.54
61:DX:95:PHE:CE2	61:DX:135:LEU:HB3	2.43	0.54
66:D3:933:A:H2'	66:D3:933:A:N3	2.23	0.54
66:D3:956:C:O3'	66:D3:1047:G:N2	2.41	0.54
2:DA:148:ASN:O	66:D3:1066:C:O2'	2.26	0.54
3:JA:54:SER:O	3:JA:120:GLY:N	2.40	0.54
3:JA:904:LEU:HD23	3:JA:909:THR:HG23	1.89	0.54
1:CB:218:ILE:HD13	29:CE:141:LEU:HA	1.90	0.54
7:UD:368:ASN:O	7:UD:679:LEU:HD11	2.08	0.54
8:UE:363:VAL:HG12	20:UQ:546:LYS:HB3	1.90	0.54
8:UE:465:ILE:HD12	8:UE:501:TRP:CZ2	2.43	0.54
9:UF:182:TRP:CD1	9:UF:281:LEU:HD21	2.42	0.54
11:UH:305:VAL:HA	11:UH:311:VAL:HA	1.90	0.54
13:UJ:18:VAL:O	13:UJ:20:LEU:N	2.41	0.54
13:UJ:407:PHE:O	13:UJ:410:ILE:C	2.51	0.54
15:UL:642:TRP:CZ3	15:UL:649:CYS:HB3	2.42	0.54
16:UM:415:TRP:HA	16:UM:425:ASP:O	2.07	0.54
16:UM:455:LEU:HD11	16:UM:463:ILE:HD12	1.90	0.54
21:UR:130:ASP:OD2	24:UU:179:LYS:NZ	2.29	0.54
23:UT:1272:PHE:CE1	23:UT:1281:ARG:HD2	2.43	0.54
25:UV:715:SER:O	25:UV:719:THR:OG1	2.18	0.54
28:CD:8:LEU:HB2	28:CD:98:LEU:HD11	1.89	0.54
31:CH:137:GLY:HA3	31:CH:500:LYS:HE2	1.89	0.54
35:CL:968:THR:OG1	35:CL:972:ILE:HG12	2.08	0.54
39:JF:104:ILE:HB	39:JF:246:GLU:HG2	1.89	0.54
39:JG:151:ARG:HB3	39:JG:155:SER:HA	1.90	0.54
42:JJ:246:SER:O	42:JJ:249:SER:OG	2.24	0.54
46:JO:252:PRO:HB3	56:DN:116:ILE:HD11	1.88	0.54
47:JP:17:LYS:NZ	47:JP:20:GLN:HB2	2.22	0.54
47:JP:147:LEU:C	47:JP:148:TRP:HD1	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DF:149:VAL:CA	64:Dc:22:ARG:HH12	2.20	0.54
56:DN:105:ASN:HD21	66:D3:879:G:H1'	1.73	0.54
65:D2:117:G:H2'	65:D2:118:A:C8	2.43	0.54
66:D3:50:C:H41	66:D3:425:A:H8	1.56	0.54
66:D3:1579:U:H2'	66:D3:1580:C:C6	2.43	0.54
4:UA:492:SER:C	4:UA:494:ASP:H	2.15	0.54
7:UD:87:GLN:HB3	7:UD:378:TYR:HD2	1.73	0.54
8:UE:153:ILE:HG22	8:UE:163:LEU:HB2	1.90	0.54
8:UE:348:LYS:NZ	18:UO:3:THR:OG1	2.41	0.54
11:UH:562:PRO:O	11:UH:566:LEU:HD23	2.07	0.54
14:UK:22:ARG:HH12	35:CL:937:PHE:HB3	1.72	0.54
14:UK:200:GLN:HA	14:UK:203:GLN:NE2	2.22	0.54
15:UL:415:LYS:HB3	15:UL:417:TRP:NE1	2.22	0.54
16:UM:127:ILE:HG23	16:UM:136:ILE:HG23	1.90	0.54
17:UN:832:ASN:HD21	17:UN:834:LYS:HZ3	1.56	0.54
18:UO:288:ASP:O	18:UO:291:GLN:HG2	2.08	0.54
21:UR:142:LYS:NZ	29:CE:430:ASP:OD2	2.41	0.54
23:UT:461:ILE:HG13	23:UT:486:PHE:CZ	2.43	0.54
23:UT:643:LYS:HZ2	23:UT:683:ASP:HB2	1.72	0.54
23:UT:1057:GLN:HA	23:UT:1060:LYS:HG2	1.90	0.54
23:UT:1471:GLU:O	23:UT:1517:HIS:NE2	2.41	0.54
29:CE:3:TYR:CG	29:CE:14:LEU:HD21	2.43	0.54
29:CE:4:VAL:O	29:CE:14:LEU:HA	2.07	0.54
30:CG:28:ALA:HB2	30:CG:33:LEU:HD23	1.90	0.54
31:CH:488:ILE:HG13	31:CH:524:ILE:HD13	1.89	0.54
35:CL:765:ASN:OD1	36:CM:308:ILE:HG12	2.08	0.54
35:CL:769:TYR:HA	35:CL:776:GLN:NE2	2.23	0.54
35:CL:824:ILE:HD12	35:CL:926:ILE:HG12	1.90	0.54
35:CL:963:GLY:N	35:CL:976:ILE:O	2.41	0.54
50:DF:184:PHE:HD2	50:DF:185:ARG:HG2	1.72	0.54
65:D2:8:A:C6	65:D2:9:G:H1'	2.43	0.54
65:D2:410:A:H2'	65:D2:411:A:H8	1.72	0.54
66:D3:144:U:O2'	66:D3:145:A:H5'	2.08	0.54
66:D3:503:G:O2'	66:D3:504:U:H5'	2.07	0.54
66:D3:1573:A:H4'	66:D3:1574:G:O5'	2.08	0.54
66:D3:1644:C:H2'	66:D3:1645:G:C8	2.42	0.54
2:DA:50:LYS:HD3	2:DA:52:THR:N	2.21	0.54
7:UD:485:LYS:HD2	7:UD:499:ASP:HA	1.90	0.54
10:UG:178:ASP:HB3	10:UG:182:THR:HB	1.89	0.54
13:UJ:119:GLU:HA	13:UJ:122:VAL:HG12	1.89	0.54
14:UK:213:GLN:O	14:UK:217:ARG:HG2	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:UM:84:LEU:HD13	16:UM:86:LYS:HZ3	1.72	0.54
16:UM:630:ASP:HB3	16:UM:646:ASP:HB2	1.90	0.54
16:UM:804:TYR:HD2	24:UU:928:PHE:HA	1.73	0.54
18:UO:133:HIS:HB3	18:UO:136:ASP:O	2.07	0.54
18:UO:164:LEU:HD21	18:UO:196:TYR:CG	2.43	0.54
18:UO:232:ASN:HA	18:UO:254:ALA:HA	1.89	0.54
21:UR:129:ASP:OD1	21:UR:130:ASP:N	2.41	0.54
21:UR:388:HIS:HB2	21:UR:395:LEU:HG	1.89	0.54
21:UR:496:ARG:HH11	21:UR:496:ARG:HG3	1.73	0.54
22:US:301:ASP:OD2	22:US:302:SER:N	2.41	0.54
23:UT:714:ASP:OD2	23:UT:715:TYR:N	2.40	0.54
23:UT:1119:TYR:HA	23:UT:1122:LEU:HD12	1.90	0.54
23:UT:1636:LEU:HA	23:UT:1639:ILE:HG22	1.90	0.54
24:UU:141:LYS:HG3	24:UU:154:TYR:HB2	1.89	0.54
24:UU:188:VAL:H	24:UU:202:SER:HG	1.56	0.54
27:UZ:41:ASN:HA	27:UZ:195:ASN:O	2.08	0.54
28:CD:34:VAL:HG23	28:CD:37:GLN:NE2	2.23	0.54
28:CD:297:HIS:NE2	28:CD:309:GLU:OE2	2.41	0.54
29:CE:380:ARG:HG3	29:CE:382:ASP:H	1.73	0.54
31:CH:337:VAL:HG11	31:CH:407:MET:HG3	1.90	0.54
33:CJ:188:HIS:C	33:CJ:189:LEU:HD12	2.33	0.54
35:CL:775:GLU:HA	35:CL:779:ARG:NH2	2.22	0.54
38:JC:250:GLY:HA2	38:JC:274:ILE:HG23	1.89	0.54
45:JN:226:ASP:OD1	45:JN:227:LYS:NZ	2.41	0.54
49:DE:182:TYR:CE2	49:DE:190:GLY:HA2	2.43	0.54
51:DG:85:ARG:HH22	51:DG:87:ARG:NH1	2.05	0.54
56:DN:33:VAL:O	56:DN:37:ILE:HG12	2.07	0.54
60:DW:107:SER:OG	66:D3:802:G:N2	2.41	0.54
61:DX:90:ASP:O	61:DX:93:LEU:HB3	2.08	0.54
65:D2:140:U:H2'	65:D2:143:A:H2	1.72	0.54
65:D2:192:G:H2'	65:D2:193:G:H8	1.72	0.54
66:D3:97:C:H1'	66:D3:426:G:H5'	1.90	0.54
66:D3:647:G:H22	66:D3:687:G:H22	1.56	0.54
1:CA:172:TYR:CD1	1:CA:175:ALA:HB2	2.43	0.53
4:UA:126:ASP:HB3	4:UA:129:LYS:HZ1	1.73	0.53
1:CB:144:TRP:CD1	1:CB:183:HIS:ND1	2.76	0.53
6:UC:538:ARG:HB3	35:CL:150:MET:HE1	1.90	0.53
7:UD:45:THR:OG1	7:UD:352:VAL:HA	2.08	0.53
8:UE:166:ALA:HB1	8:UE:191:VAL:HG21	1.90	0.53
9:UF:60:GLU:OE2	9:UF:88:ILE:HG23	2.08	0.53
10:UG:129:GLY:N	10:UG:133:HIS:O	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:UH:558:CYS:O	11:UH:585:ARG:NH1	2.41	0.53
13:UJ:286:LEU:HD11	13:UJ:292:LYS:HA	1.90	0.53
13:UJ:699:ARG:HH21	13:UJ:744:ASP:HB2	1.73	0.53
13:UJ:1380:LEU:HD22	13:UJ:1403:LEU:HD13	1.90	0.53
13:UJ:1418:ASN:OD1	13:UJ:1419:ILE:HD12	2.08	0.53
14:UK:14:ARG:NE	66:D3:583:C:O2'	2.39	0.53
14:UK:156:SER:HB2	65:D2:205:C:O2'	2.08	0.53
18:UO:173:THR:OG1	18:UO:216:GLU:O	2.25	0.53
18:UO:365:GLU:HA	18:UO:367:GLN:HE22	1.73	0.53
20:UQ:259:VAL:HA	20:UQ:275:PHE:HD1	1.73	0.53
23:UT:327:GLY:N	23:UT:368:ASN:OD1	2.42	0.53
23:UT:625:ILE:HD11	23:UT:641:ARG:HB2	1.89	0.53
23:UT:1662:SER:O	23:UT:1665:LEU:O	2.26	0.53
24:UU:503:ARG:CZ	24:UU:503:ARG:HA	2.37	0.53
25:UV:159:SER:OG	25:UV:594:ILE:O	2.23	0.53
31:CH:438:ILE:O	31:CH:441:GLY:N	2.39	0.53
33:CJ:97:SER:OG	33:CJ:144:GLU:OE1	2.25	0.53
35:CL:92:ARG:NH2	35:CL:221:LEU:HD11	2.16	0.53
36:CM:131:GLU:CD	36:CM:194:VAL:HG11	2.32	0.53
38:JC:256:ASP:HB2	38:JC:259:THR:HG22	1.90	0.53
39:JF:116:THR:HG23	39:JF:118:ARG:H	1.73	0.53
42:JJ:93:LYS:HB3	42:JJ:143:PRO:HB3	1.90	0.53
54:DJ:127:VAL:O	54:DJ:131:GLN:CB	2.55	0.53
55:DL:104:HIS:ND1	66:D3:351:C:O2	2.41	0.53
66:D3:823:G:H2'	66:D3:824:G:C8	2.43	0.53
66:D3:1603:U:H2'	66:D3:1604:U:C6	2.36	0.53
78:EK:136:CYS:CA	78:EK:145:PHE:CB	2.85	0.53
2:DA:27:LYS:HD3	2:DA:49:ASN:HA	1.89	0.53
7:UD:121:THR:HG23	7:UD:138:ASP:OD2	2.08	0.53
7:UD:612:THR:HG22	7:UD:614:TRP:H	1.73	0.53
8:UE:154:VAL:HG21	8:UE:162:GLN:HG2	1.91	0.53
9:UF:14:GLU:CD	9:UF:15:MET:HG3	2.33	0.53
9:UF:342:TRP:HH2	9:UF:359:TYR:HA	1.73	0.53
13:UJ:306:LEU:O	13:UJ:307:LYS:HD3	2.07	0.53
13:UJ:1652:VAL:O	13:UJ:1694:HIS:NE2	2.41	0.53
16:UM:602:TRP:HA	16:UM:610:LEU:H	1.73	0.53
20:UQ:207:LEU:HD23	20:UQ:229:SER:HA	1.89	0.53
21:UR:351:THR:O	21:UR:380:ASN:ND2	2.41	0.53
23:UT:27:LYS:NZ	23:UT:32:ARG:HB2	2.23	0.53
23:UT:1113:ALA:HB1	23:UT:1157:ILE:HB	1.89	0.53
23:UT:1811:ILE:HG21	23:UT:1879:VAL:HG21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:1888:THR:HG22	23:UT:1890:SER:H	1.73	0.53
23:UT:1896:ILE:HD13	23:UT:1929:GLU:HG2	1.89	0.53
24:UU:552:HIS:NE2	24:UU:554:SER:HB2	2.23	0.53
24:UU:621:ASP:HA	24:UU:668:ILE:HD11	1.90	0.53
25:UV:584:GLU:HB3	25:UV:614:ARG:HB2	1.91	0.53
27:UZ:150:LEU:HD12	27:UZ:151:PRO:HD2	1.90	0.53
28:CD:176:GLN:O	28:CD:180:LEU:HD23	2.08	0.53
28:CD:284:TYR:OH	29:CE:258:LEU:N	2.41	0.53
28:CD:326:SER:HG	28:CD:392:TYR:HE2	1.56	0.53
30:CF:20:ILE:O	30:CF:23:VAL:HG12	2.08	0.53
33:CJ:275:TRP:CG	33:CJ:276:GLN:N	2.76	0.53
39:JG:167:ILE:H	39:JG:167:ILE:HD12	1.73	0.53
47:JP:313:PHE:HE1	47:JP:320:ILE:HG12	1.71	0.53
49:DE:42:LEU:HD21	49:DE:47:PHE:HB2	1.90	0.53
51:DG:51:LYS:HB3	51:DG:112:VAL:HG13	1.89	0.53
53:DI:152:ILE:HD12	53:DI:156:VAL:HG23	1.89	0.53
62:DY:12:VAL:HA	62:DY:23:PHE:HB3	1.90	0.53
62:DY:51:GLU:OE1	62:DY:54:ALA:N	2.41	0.53
65:D2:472:A:H2'	65:D2:473:A:H8	1.73	0.53
66:D3:105:A:H62	66:D3:308:C:N4	2.05	0.53
66:D3:387:A:N7	66:D3:402:C:H5"	2.23	0.53
66:D3:635:A:H2'	66:D3:636:A:H8	1.73	0.53
67:D4:201:C:H2'	67:D4:202:G:C8	2.43	0.53
4:UA:778:ILE:O	4:UA:782:ILE:HG12	2.08	0.53
3:JB:44:MET:O	3:JB:47:ALA:C	2.51	0.53
7:UD:88:GLU:OE1	7:UD:527:TYR:OH	2.20	0.53
7:UD:170:ILE:HG22	7:UD:177:LEU:HD21	1.90	0.53
7:UD:338:ALA:HB1	7:UD:361:LEU:HD11	1.89	0.53
8:UE:119:CYS:SG	8:UE:127:TYR:HB2	2.48	0.53
8:UE:168:HIS:CD2	24:UU:646:VAL:HG11	2.42	0.53
10:UG:203:TYR:HE2	10:UG:433:LEU:HD23	1.74	0.53
13:UJ:1623:ILE:HD12	13:UJ:1626:LEU:HD21	1.90	0.53
14:UK:24:ARG:HG3	14:UK:25:TYR:H	1.74	0.53
16:UM:801:GLU:OE1	24:UU:930:MET:HB3	2.08	0.53
17:UN:301:ILE:HD12	17:UN:897:PRO:HD2	1.90	0.53
18:UO:403:ASN:HA	18:UO:406:VAL:HG13	1.91	0.53
18:UO:488:LYS:HZ2	18:UO:492:ARG:HG3	1.73	0.53
20:UQ:582:LEU:HD21	20:UQ:624:HIS:CE1	2.43	0.53
23:UT:1083:TYR:CE2	23:UT:1125:ASP:HB2	2.43	0.53
23:UT:1236:GLN:HG3	23:UT:1238:ASN:H	1.73	0.53
25:UV:1227:GLY:HA3	25:UV:1231:VAL:HG23	1.88	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CE:312:SER:OG	29:CE:316:THR:OG1	2.24	0.53
33:CJ:227:ARG:HH11	33:CJ:227:ARG:HG3	1.72	0.53
35:CL:769:TYR:HB3	35:CL:777:ARG:CZ	2.39	0.53
36:CM:155:LYS:HG3	36:CM:164:GLY:HA2	1.90	0.53
36:CM:335:THR:HG22	36:CM:354:ILE:HD11	1.90	0.53
42:JJ:186:GLU:HB2	42:JJ:189:ASP:HB2	1.88	0.53
47:JP:272:MET:HE3	47:JP:317:GLY:HA3	1.90	0.53
49:DE:172:PHE:HE2	49:DE:174:LYS:HE3	1.74	0.53
58:DQ:97:VAL:HG12	58:DQ:98:ASP:N	2.23	0.53
60:DW:57:ARG:NE	63:Db:26:GLN:HE21	2.05	0.53
62:DY:111:LYS:HA	62:DY:114:ARG:NE	2.24	0.53
63:Db:28:PRO:O	63:Db:29:ARG:HD3	2.07	0.53
63:Db:81:ARG:O	63:Db:82:LYS:HB2	2.08	0.53
66:D3:328:A:H2'	66:D3:329:G:C8	2.44	0.53
66:D3:1208:A:H2'	66:D3:1209:C:O4'	2.08	0.53
5:UB:573:LEU:HD13	5:UB:591:ILE:HG13	1.91	0.53
20:UQ:321:MET:HE2	20:UQ:356:LEU:HD13	1.90	0.53
23:UT:867:LYS:HD3	23:UT:892:LEU:HD22	1.91	0.53
23:UT:1014:ASN:ND2	53:DI:114:GLU:HB3	2.23	0.53
23:UT:1277:GLU:HB3	23:UT:1280:LEU:HB2	1.89	0.53
24:UU:35:ASN:HD22	24:UU:55:GLY:N	1.98	0.53
24:UU:285:HIS:CD2	24:UU:339:PRO:HB3	2.43	0.53
25:UV:169:PRO:HA	25:UV:172:THR:HG22	1.90	0.53
25:UV:495:THR:HA	25:UV:498:MET:HE2	1.90	0.53
25:UV:577:ARG:HA	25:UV:623:GLU:HG2	1.89	0.53
25:UV:586:VAL:HB	25:UV:612:PHE:O	2.09	0.53
29:CE:230:GLU:O	29:CE:234:ARG:HG2	2.08	0.53
35:CL:620:LYS:HA	35:CL:623:LYS:HG2	1.91	0.53
35:CL:1107:LYS:HD2	65:D2:412:A:H5"	1.91	0.53
39:JF:151:ARG:HG3	39:JF:158:LYS:HA	1.89	0.53
47:JP:290:ASP:OD2	66:D3:-7:A:N6	2.37	0.53
51:DG:85:ARG:HG2	51:DG:86:PRO:HD2	1.90	0.53
56:DN:61:THR:HG22	56:DN:66:ILE:HD11	1.90	0.53
58:DQ:63:ILE:HG21	58:DQ:92:TYR:CE2	2.43	0.53
65:D2:446:U:H2'	65:D2:447:G:C8	2.44	0.53
66:D3:473:A:H62	66:D3:474:A:H62	1.55	0.53
69:EB:207:GLU:O	69:EB:211:LYS:N	2.39	0.53
78:EK:568:VAL:O	78:EK:625:SER:HA	2.08	0.53
3:JA:23:ARG:HG2	3:JA:145:GLY:H	1.73	0.53
4:UA:54:HIS:ND1	4:UA:74:ASP:HB3	2.22	0.53
4:UA:558:ASP:OD2	4:UA:611:LEU:HD13	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UD:240:LEU:HD11	7:UD:242:TRP:CE2	2.43	0.53
8:UE:523:LEU:HB2	8:UE:527:HIS:HE2	1.73	0.53
9:UF:133:TYR:CD2	9:UF:150:CYS:HB2	2.43	0.53
11:UH:588:GLN:HG2	20:UQ:606:HIS:CD2	2.44	0.53
13:UJ:152:LEU:HD11	13:UJ:157:LEU:HD11	1.91	0.53
13:UJ:314:GLN:HG3	13:UJ:353:ARG:HB3	1.91	0.53
13:UJ:1533:ASN:O	13:UJ:1537:LEU:HG	2.08	0.53
13:UJ:1737:LEU:HG	23:UT:31:ALA:HB1	1.90	0.53
15:UL:588:ILE:HG13	15:UL:602:LEU:HG	1.89	0.53
23:UT:1218:SER:O	23:UT:1221:ILE:HG12	2.08	0.53
24:UU:581:LEU:HD23	24:UU:612:TRP:CD2	2.44	0.53
25:UV:138:ILE:HD12	25:UV:238:HIS:HB3	1.91	0.53
25:UV:858:ARG:HH11	25:UV:861:ILE:HD13	1.74	0.53
26:UX:132:HIS:CD2	26:UX:140:CYS:SG	2.99	0.53
31:CH:59:PRO:O	31:CH:63:ARG:HG3	2.07	0.53
31:CH:155:ASN:OD1	31:CH:156:ASN:N	2.42	0.53
35:CL:151:GLU:HG3	35:CL:912:ARG:NH2	2.21	0.53
35:CL:948:ILE:HB	35:CL:987:TYR:CE2	2.44	0.53
36:CM:291:ARG:HG2	36:CM:317:GLN:HG2	1.89	0.53
38:JC:167:LEU:HD23	43:JK:476:GLU:HB3	1.90	0.53
38:JC:276:LYS:HG3	38:JC:278:ILE:HG12	1.90	0.53
65:D2:266:U:H4'	65:D2:267:U:H2'	1.88	0.53
66:D3:144:U:H3	66:D3:171:A:H61	1.57	0.53
66:D3:539:G:H1'	66:D3:540:G:C2	2.44	0.53
66:D3:1510:U:H2'	66:D3:1511:U:O4'	2.08	0.53
71:ED:40:ARG:N	71:ED:44:ARG:O	2.40	0.53
2:DA:117:TRP:CZ3	2:DA:152:ARG:HD3	2.44	0.53
4:UA:114:ALA:HB2	4:UA:152:LEU:HD11	1.91	0.53
4:UA:473:GLU:O	4:UA:494:ASP:HB2	2.09	0.53
5:UB:715:PRO:C	5:UB:716:LYS:HD2	2.34	0.53
8:UE:438:THR:OG1	8:UE:468:THR:HA	2.08	0.53
8:UE:495:GLN:O	8:UE:499:ASN:N	2.36	0.53
8:UE:514:VAL:HG13	18:UO:511:LEU:HD12	1.91	0.53
9:UF:41:HIS:NE2	47:JP:21:GLU:O	2.40	0.53
11:UH:667:GLU:HA	11:UH:670:GLU:OE2	2.09	0.53
13:UJ:1445:ILE:HD12	13:UJ:1483:SER:HB2	1.91	0.53
13:UJ:1653:ASN:OD1	13:UJ:1656:SER:OG	2.18	0.53
14:UK:14:ARG:HE	66:D3:583:C:HO2'	1.54	0.53
15:UL:140:SER:OG	15:UL:142:ASP:OD1	2.26	0.53
16:UM:336:ASN:OD1	16:UM:337:HIS:N	2.42	0.53
18:UO:257:CYS:SG	18:UO:305:CYS:N	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UQ:447:LYS:NZ	20:UQ:769:ASN:OD1	2.23	0.53
22:US:317:ILE:HG23	22:US:358:PHE:CD1	2.44	0.53
23:UT:670:LEU:HD11	23:UT:777:GLN:HB3	1.90	0.53
23:UT:1477:LYS:HD2	23:UT:1480:SER:H	1.72	0.53
23:UT:1515:ALA:HB3	23:UT:1554:PRO:HG2	1.89	0.53
23:UT:1701:MET:HG3	23:UT:1705:LEU:HD23	1.90	0.53
25:UV:100:SER:O	25:UV:104:LYS:HG2	2.09	0.53
25:UV:258:TYR:HA	25:UV:266:PRO:HA	1.90	0.53
25:UV:358:SER:OG	25:UV:418:SER:OG	2.24	0.53
25:UV:1160:SER:HA	25:UV:1187:LYS:HD2	1.90	0.53
28:CD:25:ASP:OD1	28:CD:25:ASP:N	2.39	0.53
31:CH:171:THR:HG22	31:CH:173:GLU:OE1	2.08	0.53
31:CH:437:ARG:C	31:CH:439:ALA:H	2.15	0.53
35:CL:553:ILE:HG12	36:CM:323:ILE:HD12	1.91	0.53
37:CN:86:GLU:H	37:CN:127:LYS:HB3	1.73	0.53
38:JC:141:GLY:HA2	38:JC:157:ALA:HA	1.91	0.53
39:JF:115:GLN:HE21	39:JF:119:GLY:HA2	1.74	0.53
49:DE:238:LEU:HD23	49:DE:242:LYS:HA	1.90	0.53
56:DN:38:VAL:O	56:DN:42:ARG:HG2	2.09	0.53
56:DN:124:ARG:HH21	66:D3:628:G:P	2.31	0.53
61:DX:134:ALA:HB1	61:DX:139:LYS:HB2	1.91	0.53
66:D3:891:A:H2'	66:D3:892:A:C8	2.42	0.53
66:D3:1706:C:H2'	66:D3:1707:A:C8	2.43	0.53
1:CA:287:ALA:HA	26:UX:148:HIS:CE1	2.43	0.53
4:UA:420:ARG:HG3	34:CK:468:ARG:NH1	2.24	0.53
9:UF:57:ILE:HG21	9:UF:96:TYR:OH	2.09	0.53
12:UI:445:PRO:HG2	12:UI:446:TRP:CD1	2.44	0.53
14:UK:165:ARG:NH1	19:UP:176:PHE:HZ	2.06	0.53
15:UL:449:THR:OG1	15:UL:451:ASN:O	2.24	0.53
16:UM:97:ARG:HD3	16:UM:134:GLY:H	1.74	0.53
16:UM:151:LYS:O	16:UM:163:LEU:HD12	2.09	0.53
16:UM:239:VAL:HG12	16:UM:241:GLN:HG2	1.90	0.53
18:UO:488:LYS:HA	18:UO:491:VAL:HG22	1.91	0.53
23:UT:280:MET:SD	23:UT:281:ASN:ND2	2.81	0.53
25:UV:369:TRP:HE3	25:UV:370:LEU:HD22	1.73	0.53
25:UV:469:ASP:OD1	25:UV:471:SER:OG	2.25	0.53
32:CI:83:TYR:O	32:CI:86:GLY:N	2.39	0.53
37:CN:261:GLN:O	37:CN:265:ARG:HG2	2.09	0.53
38:JC:202:ASN:HD21	38:JC:228:PRO:HA	1.73	0.53
38:JC:227:ARG:HE	38:JC:230:GLN:HE22	1.53	0.53
39:JG:114:ILE:HB	39:JG:122:ILE:HB	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:JP:460:GLN:OE1	47:JP:460:GLN:N	2.34	0.53
50:DF:53:VAL:CG2	50:DF:59:VAL:HA	2.39	0.53
51:DG:56:ASN:HD22	66:D3:154:G:H1'	1.73	0.53
51:DG:174:LYS:HG2	66:D3:78:A:C2	2.44	0.53
55:DL:57:LYS:HD3	55:DL:131:ILE:HG21	1.91	0.53
62:DY:81:GLU:HA	62:DY:84:LYS:HG2	1.91	0.53
65:D2:426:G:N3	65:D2:428:A:H5"	2.24	0.53
66:D3:450:U:H2'	66:D3:451:A:C8	2.44	0.53
66:D3:568:G:C2	66:D3:569:C:N3	2.77	0.53
66:D3:1063:U:O2'	66:D3:1064:G:O5'	2.24	0.53
66:D3:1704:U:H2'	66:D3:1705:C:C6	2.44	0.53
67:D4:172:U:H2'	67:D4:173:A:C8	2.44	0.53
79:EN:489:ILE:O	79:EN:493:GLU:N	2.40	0.53
3:JA:112:GLU:HG3	3:JA:137:ARG:HH22	1.73	0.53
4:UA:617:VAL:HG11	4:UA:681:VAL:HG21	1.91	0.53
5:UB:675:TYR:HB3	5:UB:677:ASP:OD1	2.09	0.53
7:UD:590:LYS:HD2	7:UD:592:TYR:CZ	2.44	0.53
10:UG:230:THR:HG22	10:UG:259:TRP:CZ2	2.43	0.53
13:UJ:259:THR:O	13:UJ:262:VAL:HG12	2.09	0.53
14:UK:58:ARG:NH2	35:CL:1076:GLU:OE1	2.42	0.53
14:UK:220:ALA:O	14:UK:224:LEU:HG	2.09	0.53
15:UL:129:PHE:HA	15:UL:135:ARG:O	2.08	0.53
16:UM:15:ILE:HD11	16:UM:43:ILE:HD11	1.90	0.53
16:UM:16:TYR:CE2	16:UM:35:PRO:HD2	2.44	0.53
16:UM:64:ILE:HA	16:UM:80:SER:HA	1.91	0.53
16:UM:494:ILE:HA	16:UM:510:SER:HB2	1.91	0.53
16:UM:518:TRP:HA	16:UM:526:GLU:H	1.73	0.53
18:UO:51:HIS:O	18:UO:53:HIS:N	2.41	0.53
23:UT:294:VAL:HA	23:UT:297:VAL:HG22	1.91	0.53
23:UT:558:TRP:CD1	23:UT:561:LEU:HD12	2.44	0.53
23:UT:1502:ASN:HA	23:UT:1505:ASN:ND2	2.24	0.53
23:UT:1524:LYS:HE3	23:UT:1590:LEU:HD11	1.91	0.53
25:UV:961:VAL:O	25:UV:965:ILE:HG12	2.08	0.53
27:UZ:110:PHE:CD2	27:UZ:118:LEU:HD11	2.44	0.53
29:CE:21:LYS:O	29:CE:25:SER:OG	2.22	0.53
35:CL:892:PRO:HB3	35:CL:920:GLU:O	2.09	0.53
36:CM:200:VAL:HG12	36:CM:201:SER:N	2.22	0.53
38:JC:154:TYR:OH	38:JC:188:ILE:HB	2.08	0.53
46:JO:138:PHE:CD1	46:JO:191:MET:HE1	2.38	0.53
49:DE:175:PHE:HE2	49:DE:198:LYS:HD2	1.74	0.53
50:DF:157:ARG:HB2	50:DF:224:ASN:ND2	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:Dc:42:ARG:NH1	64:Dc:56:LEU:HD22	2.24	0.53
65:D2:407:A:C6	65:D2:450:G:N2	2.77	0.53
66:D3:290:G:H2'	66:D3:291:G:C8	2.44	0.53
66:D3:480:G:H22	66:D3:509:G:H1'	1.74	0.53
66:D3:1066:C:H2'	66:D3:1067:C:C6	2.44	0.53
66:D3:1204:A:O2'	66:D3:1208:A:N3	2.34	0.53
66:D3:1542:G:N7	66:D3:1569:A:N6	2.54	0.53
66:D3:1621:U:H2'	66:D3:1622:G:C8	2.44	0.53
3:JA:896:ASP:O	3:JA:900:LYS:HG2	2.08	0.53
5:UB:515:HIS:CE1	5:UB:517:VAL:HG22	2.44	0.53
7:UD:455:PRO:HA	7:UD:460:LEU:HG	1.90	0.53
9:UF:278:MET:CE	9:UF:316:SER:HB3	2.39	0.53
13:UJ:135:LEU:HD21	13:UJ:151:ILE:HD11	1.90	0.53
15:UL:262:ILE:HB	15:UL:343:TRP:CD1	2.43	0.53
16:UM:719:ILE:O	16:UM:758:ARG:NH2	2.41	0.53
16:UM:757:GLN:HA	16:UM:760:ILE:HG22	1.91	0.53
17:UN:309:ASP:O	17:UN:310:HIS:ND1	2.41	0.53
20:UQ:375:ASN:ND2	21:UR:340:GLU:OE2	2.38	0.53
20:UQ:631:GLN:HG2	20:UQ:652:GLU:HG2	1.91	0.53
20:UQ:868:ASN:OD1	20:UQ:871:SER:HB2	2.09	0.53
22:US:498:PHE:HA	22:US:501:TRP:HE1	1.74	0.53
23:UT:237:THR:O	23:UT:241:THR:HG22	2.09	0.53
23:UT:726:LYS:HE3	23:UT:729:TRP:HA	1.89	0.53
23:UT:1372:MET:HE3	23:UT:1420:VAL:HG12	1.91	0.53
24:UU:530:ASP:HB2	24:UU:537:LEU:HD21	1.90	0.53
29:CE:302:HIS:CG	29:CE:320:LEU:HD21	2.44	0.53
31:CH:457:GLU:HA	31:CH:460:ARG:HG3	1.91	0.53
31:CH:488:ILE:HG21	31:CH:524:ILE:HG21	1.90	0.53
35:CL:114:ARG:NH1	35:CL:306:ASP:OD2	2.35	0.53
35:CL:275:LEU:O	35:CL:276:HIS:ND1	2.42	0.53
44:JM:132:PRO:HD3	44:JM:186:TYR:CE2	2.43	0.53
46:JO:258:ARG:NH1	56:DN:127:ARG:HH22	2.07	0.53
46:JO:261:ASP:O	46:JO:265:GLU:HG2	2.09	0.53
47:JP:112:LEU:H	47:JP:112:LEU:HD12	1.74	0.53
50:DF:207:THR:HA	50:DF:212:LYS:NZ	2.24	0.53
51:DG:31:ARG:NH2	51:DG:66:GLY:H	2.06	0.53
65:D2:6:A:N6	65:D2:8:A:N3	2.57	0.53
66:D3:628:G:N1	66:D3:970:A:OP2	2.33	0.53
66:D3:950:C:H2'	66:D3:951:A:C8	2.44	0.53
75:EH:204:THR:O	75:EH:208:TYR:N	2.41	0.53
79:EN:771:GLY:HA2	79:EN:807:VAL:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JA:722:TYR:HB2	3:JA:763:LEU:HD11	1.91	0.53
3:JA:748:ARG:NE	3:JA:759:THR:H	2.07	0.53
7:UD:767:LYS:HZ2	19:UP:213:LYS:HA	1.74	0.53
8:UE:191:VAL:HG12	8:UE:206:ALA:HB2	1.90	0.53
9:UF:168:PHE:O	9:UF:172:LEU:HD23	2.08	0.53
10:UG:141:LYS:HE2	13:UJ:20:LEU:HD22	1.91	0.53
10:UG:246:VAL:HG13	10:UG:248:HIS:HE1	1.74	0.53
10:UG:430:VAL:HG11	32:CI:3:ARG:HH21	1.73	0.53
10:UG:494:ASN:O	65:D2:354:G:O2'	2.26	0.53
11:UH:655:LEU:O	11:UH:659:THR:HG23	2.08	0.53
13:UJ:16:ALA:O	13:UJ:24:ARG:NH2	2.42	0.53
13:UJ:44:ASP:OD1	47:JP:17:LYS:HB3	2.09	0.53
16:UM:40:ILE:HD11	16:UM:64:ILE:HG12	1.91	0.53
16:UM:347:GLY:HA2	16:UM:417:TYR:HE1	1.74	0.53
16:UM:522:ASN:HB3	16:UM:524:GLU:HG2	1.91	0.53
17:UN:859:ARG:HA	17:UN:862:ARG:HG3	1.91	0.53
18:UO:23:GLU:OE1	18:UO:23:GLU:N	2.24	0.53
20:UQ:66:LEU:HD22	20:UQ:125:LEU:HD11	1.90	0.53
20:UQ:372:LEU:HD23	20:UQ:384:SER:HA	1.92	0.53
22:US:298:PHE:HA	22:US:301:ASP:OD1	2.09	0.53
23:UT:41:TYR:CD2	23:UT:42:VAL:HG23	2.44	0.53
23:UT:356:ASP:HB3	23:UT:747:TRP:CZ3	2.44	0.53
23:UT:398:GLN:NE2	23:UT:746:ILE:HG21	2.23	0.53
25:UV:376:SER:O	25:UV:388:PHE:N	2.42	0.53
33:CJ:93:SER:OG	33:CJ:94:ARG:N	2.42	0.53
34:CK:317:GLU:OE2	35:CL:1012:LYS:NZ	2.42	0.53
34:CK:507:ILE:HG13	34:CK:515:MET:HB2	1.90	0.53
34:CK:530:ARG:NH1	66:D3:1643:U:OP2	2.42	0.53
35:CL:56:VAL:HG23	61:DX:101:GLU:HG3	1.90	0.53
37:CN:17:PRO:HB3	37:CN:34:LEU:HD12	1.91	0.53
37:CN:180:LEU:O	37:CN:184:ILE:HG12	2.09	0.53
39:JG:96:LEU:HG	39:JG:130:ILE:HD11	1.90	0.53
47:JP:225:LEU:O	47:JP:226:LYS:HG3	2.09	0.53
49:DE:64:ILE:HD13	62:DY:17:LEU:HD13	1.91	0.53
65:D2:114:G:H2'	65:D2:115:G:H8	1.74	0.53
65:D2:134:A:H2'	65:D2:135:G:C8	2.44	0.53
4:UA:64:ASN:OD1	4:UA:65:LYS:N	2.42	0.52
6:UC:538:ARG:HD2	35:CL:908:GLY:O	2.09	0.52
6:UC:588:SER:O	30:CG:46:ARG:NH2	2.40	0.52
8:UE:461:ASP:OD2	8:UE:464:VAL:N	2.36	0.52
9:UF:11:CYS:SG	9:UF:33:MET:HE1	2.49	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:UG:531:HIS:CE1	65:D2:364:A:H2'	2.44	0.52
11:UH:232:VAL:N	11:UH:237:GLN:O	2.42	0.52
16:UM:522:ASN:OD1	16:UM:523:GLY:N	2.42	0.52
16:UM:563:ASP:OD1	16:UM:564:THR:N	2.37	0.52
16:UM:596:ASP:HB3	16:UM:598:LEU:HD22	1.90	0.52
20:UQ:670:LEU:HB2	20:UQ:683:LEU:HD21	1.90	0.52
23:UT:633:GLN:HA	51:DG:130:PRO:HB3	1.90	0.52
23:UT:1897:PRO:HA	23:UT:1900:ARG:HE	1.74	0.52
25:UV:132:TYR:O	25:UV:135:LEU:HG	2.09	0.52
25:UV:422:PHE:O	25:UV:426:ILE:HG12	2.09	0.52
25:UV:469:ASP:HB3	25:UV:474:VAL:HG22	1.91	0.52
25:UV:941:PRO:HG2	25:UV:961:VAL:HG22	1.91	0.52
27:UZ:73:LEU:HB2	27:UZ:122:PHE:CD2	2.44	0.52
29:CE:310:ALA:HB1	29:CE:372:ARG:HG2	1.91	0.52
31:CH:497:LYS:HG2	31:CH:513:GLU:OE1	2.08	0.52
35:CL:548:ASN:O	35:CL:552:LEU:HG	2.09	0.52
36:CM:52:PHE:CE1	36:CM:102:PRO:HG3	2.38	0.52
36:CM:181:HIS:CE1	36:CM:309:GLY:HA2	2.43	0.52
36:CM:220:GLN:NE2	36:CM:221:CYS:SG	2.82	0.52
36:CM:245:LEU:HD12	36:CM:275:VAL:HG12	1.89	0.52
36:CM:290:GLY:H	36:CM:293:GLN:NE2	2.07	0.52
47:JP:205:ASP:HB2	47:JP:212:VAL:HG21	1.91	0.52
47:JP:327:LYS:CE	47:JP:349:GLN:HA	2.39	0.52
54:DJ:110:GLN:HG3	54:DJ:111:THR:N	2.24	0.52
65:D2:145:A:H2'	65:D2:146:G:C8	2.44	0.52
66:D3:1599:C:H2'	66:D3:1600:A:N7	2.23	0.52
72:EE:139:ILE:HA	72:EE:157:SER:HA	1.90	0.52
3:JA:34:ARG:HB3	3:JA:94:PHE:CG	2.44	0.52
3:JA:52:ASN:OD1	3:JA:53:LYS:N	2.42	0.52
3:JA:752:ASN:OD1	3:JA:755:THR:N	2.30	0.52
4:UA:344:HIS:CE1	4:UA:370:LYS:HD2	2.44	0.52
4:UA:515:TYR:CD1	58:DQ:118:ILE:HD11	2.44	0.52
4:UA:576:ARG:HH12	32:CI:144:ASN:HB2	1.73	0.52
7:UD:354:LYS:HB2	7:UD:374:THR:HG22	1.91	0.52
7:UD:451:PHE:CE2	7:UD:464:LYS:HG2	2.45	0.52
8:UE:162:GLN:HB2	8:UE:172:LEU:HD11	1.90	0.52
8:UE:181:VAL:O	8:UE:182:MET:HE2	2.09	0.52
11:UH:592:ARG:HH12	20:UQ:603:ASN:HB2	1.74	0.52
21:UR:410:ASP:OD2	21:UR:411:TYR:N	2.43	0.52
23:UT:431:LYS:NZ	23:UT:750:TYR:HB3	2.24	0.52
23:UT:1803:ASN:OD1	23:UT:1804:SER:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UU:639:ASP:OD1	24:UU:640:LEU:N	2.42	0.52
25:UV:486:GLN:HB3	25:UV:580:TYR:CE1	2.44	0.52
25:UV:894:ARG:NH1	25:UV:894:ARG:HB2	2.24	0.52
27:UZ:76:THR:OG1	27:UZ:77:LYS:O	2.28	0.52
29:CE:5:LEU:HD11	29:CE:89:VAL:HG23	1.90	0.52
29:CE:36:ASP:CG	29:CE:40:LYS:HZ3	2.18	0.52
31:CH:284:LEU:HD13	31:CH:300:ALA:HB2	1.91	0.52
34:CK:493:GLN:HE22	66:D3:1633:A:H5'	1.73	0.52
39:JF:76:LEU:HD23	39:JF:80:MET:HE1	1.90	0.52
39:JF:77:LEU:HA	39:JF:80:MET:SD	2.49	0.52
39:JF:90:ASP:O	39:JF:93:HIS:N	2.42	0.52
39:JG:91:ILE:HG13	39:JG:92:THR:N	2.24	0.52
46:JO:212:ARG:HB2	46:JO:214:GLU:OE1	2.09	0.52
52:DH:31:SER:HB2	52:DH:34:LEU:HB3	1.89	0.52
52:DH:141:ARG:HD3	52:DH:143:LEU:HD21	1.90	0.52
55:DL:140:VAL:HG22	55:DL:141:LYS:HD3	1.90	0.52
66:D3:1649:G:H2'	66:D3:1650:U:C6	2.45	0.52
79:EN:87:GLN:N	79:EN:119:VAL:O	2.38	0.52
2:DA:11:LYS:HG3	2:DA:12:GLY:H	1.73	0.52
4:UA:7:PHE:HE2	4:UA:702:LEU:HD23	1.73	0.52
4:UA:82:VAL:HG13	4:UA:88:ASN:O	2.08	0.52
4:UA:518:VAL:HG23	4:UA:518:VAL:O	2.08	0.52
1:CB:170:VAL:HA	1:CB:239:CYS:O	2.10	0.52
1:CB:281:ASP:O	1:CB:284:THR:OG1	2.20	0.52
5:UB:422:LEU:HD22	5:UB:466:TYR:HD2	1.72	0.52
5:UB:651:TRP:O	5:UB:657:PHE:HB2	2.09	0.52
7:UD:185:ARG:HH22	30:CF:126:ILE:HG22	1.74	0.52
7:UD:427:ASN:HB2	7:UD:444:ARG:HD3	1.91	0.52
7:UD:552:ILE:HG12	7:UD:563:LEU:HD11	1.91	0.52
8:UE:435:GLY:HA2	22:US:298:PHE:HZ	1.73	0.52
9:UF:318:ARG:HA	9:UF:321:LYS:NZ	2.24	0.52
12:UI:498:GLY:HA3	18:UO:502:GLN:HE22	1.74	0.52
13:UJ:753:ALA:HB1	13:UJ:791:VAL:HG11	1.91	0.52
13:UJ:1418:ASN:OD1	13:UJ:1419:ILE:N	2.42	0.52
13:UJ:1450:LEU:N	13:UJ:1452:GLU:OE2	2.43	0.52
15:UL:232:ASP:OD1	15:UL:233:ILE:N	2.37	0.52
20:UQ:714:ASP:N	20:UQ:718:GLY:O	2.41	0.52
23:UT:340:ILE:HA	23:UT:343:ILE:HD12	1.91	0.52
23:UT:374:LEU:HB3	23:UT:411:PHE:CZ	2.44	0.52
23:UT:1148:GLY:O	23:UT:1151:ILE:N	2.42	0.52
23:UT:1707:HIS:NE2	23:UT:1805:ASP:HB2	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CE:213:GLY:HA3	29:CE:252:LEU:HD21	1.90	0.52
34:CK:297:LEU:HD23	34:CK:297:LEU:H	1.74	0.52
34:CK:513:VAL:HG22	34:CK:515:MET:HE3	1.91	0.52
35:CL:292:GLY:O	35:CL:1022:LEU:HG	2.09	0.52
38:JC:14:TYR:HE2	38:JC:344:PRO:HG3	1.74	0.52
38:JC:254:ILE:O	38:JC:263:SER:N	2.42	0.52
39:JF:240:LYS:O	39:JG:243:HIS:HE1	1.93	0.52
42:JJ:213:LYS:O	42:JJ:217:GLU:HG2	2.08	0.52
47:JP:15:PRO:HB3	47:JP:20:GLN:NE2	2.24	0.52
49:DE:38:LEU:CD1	49:DE:39:ARG:HG2	2.40	0.52
50:DF:134:VAL:O	50:DF:138:THR:HG23	2.09	0.52
66:D3:550:A:C6	66:D3:551:G:N7	2.78	0.52
66:D3:1130:G:C6	66:D3:1131:A:C6	2.97	0.52
67:D4:77:U:H2'	67:D4:78:G:C8	2.44	0.52
73:EF:242:HIS:O	73:EF:246:GLN:N	2.41	0.52
77:EJ:46:TYR:N	77:EJ:53:LEU:O	2.42	0.52
78:EK:910:ASN:O	78:EK:911:GLU:CB	2.58	0.52
2:DA:187:LYS:HE2	25:UV:752:SER:OG	2.10	0.52
2:DA:216:LYS:NZ	66:D3:886:U:OP2	2.42	0.52
3:JA:78:LYS:O	3:JA:82:LYS:HG2	2.10	0.52
3:JA:476:TYR:HE2	3:JA:480:ASP:HB2	1.75	0.52
4:UA:323:LYS:O	4:UA:324:LEU:HB2	2.08	0.52
7:UD:100:GLU:HG3	7:UD:118:GLY:C	2.35	0.52
13:UJ:106:SER:O	13:UJ:206:TYR:OH	2.22	0.52
13:UJ:1361:VAL:HG22	13:UJ:1365:LYS:HE3	1.91	0.52
18:UO:95:LEU:HA	18:UO:109:ASP:HA	1.90	0.52
20:UQ:340:ILE:O	20:UQ:358:LEU:HA	2.08	0.52
21:UR:269:ASP:O	21:UR:271:THR:HG23	2.08	0.52
21:UR:288:LEU:HD21	21:UR:339:ILE:HG21	1.90	0.52
23:UT:636:ARG:NH1	51:DG:129:VAL:O	2.33	0.52
25:UV:516:SER:OG	25:UV:522:LYS:NZ	2.30	0.52
27:UZ:229:ARG:HD3	27:UZ:233:GLY:HA3	1.91	0.52
28:CD:171:ASP:OD2	28:CD:321:SER:OG	2.25	0.52
37:CN:262:VAL:HG13	37:CN:266:LYS:HZ3	1.74	0.52
38:JC:48:GLU:OE2	38:JC:50:ILE:N	2.42	0.52
39:JG:90:ASP:HB3	39:JG:94:GLN:HE22	1.74	0.52
47:JP:121:PRO:HD3	47:JP:135:PHE:CD1	2.45	0.52
53:DI:36:THR:OG1	53:DI:57:ALA:O	2.27	0.52
54:DJ:135:ALA:HB1	54:DJ:139:GLN:O	2.10	0.52
66:D3:242:U:H2'	66:D3:243:G:C8	2.45	0.52
66:D3:269:G:C6	66:D3:287:G:C6	2.98	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:491:C:H2'	66:D3:492:A:C8	2.44	0.52
69:EB:40:PHE:HA	69:EB:47:VAL:HA	1.92	0.52
1:CA:195:TYR:CD2	1:CA:234:ILE:HD12	2.45	0.52
3:JA:494:VAL:HG23	3:JA:539:ALA:HB1	1.91	0.52
5:UB:574:THR:HB	5:UB:593:LEU:HD12	1.92	0.52
8:UE:544:ASP:OD2	18:UO:488:LYS:NZ	2.42	0.52
9:UF:113:TYR:HD2	9:UF:132:ILE:HD12	1.72	0.52
9:UF:159:ALA:HB1	9:UF:161:PHE:CE1	2.43	0.52
13:UJ:1599:GLU:HG2	13:UJ:1600:PRO:HD3	1.92	0.52
14:UK:125:LEU:HD11	14:UK:198:PHE:CE1	2.45	0.52
15:UL:275:GLN:HG3	15:UL:338:ILE:HD12	1.90	0.52
15:UL:373:ASP:OD1	15:UL:373:ASP:N	2.40	0.52
16:UM:495:ASN:OD1	16:UM:496:ALA:N	2.41	0.52
20:UQ:246:SER:O	20:UQ:250:GLN:NE2	2.29	0.52
20:UQ:443:ASN:HB3	20:UQ:448:ASN:H	1.73	0.52
22:US:273:GLN:O	22:US:277:ILE:HD12	2.09	0.52
23:UT:208:LEU:HD21	23:UT:254:ILE:HG23	1.91	0.52
23:UT:468:ALA:O	23:UT:503:ARG:NH2	2.43	0.52
23:UT:484:ILE:O	23:UT:487:LYS:HG2	2.10	0.52
24:UU:66:LEU:HB3	24:UU:346:ARG:HD3	1.91	0.52
24:UU:110:LEU:HD21	24:UU:140:TYR:CZ	2.45	0.52
24:UU:670:GLU:N	24:UU:670:GLU:OE1	2.39	0.52
25:UV:523:TYR:HA	25:UV:618:ILE:HD11	1.90	0.52
25:UV:613:VAL:O	25:UV:614:ARG:NH2	2.42	0.52
25:UV:867:ILE:HD11	25:UV:879:GLU:CD	2.34	0.52
30:CG:8:ALA:HA	30:CG:80:PHE:HE2	1.73	0.52
35:CL:250:THR:OG1	35:CL:270:ALA:HB3	2.09	0.52
36:CM:7:LYS:N	36:CM:30:PRO:HB2	2.24	0.52
36:CM:123:ALA:HB1	36:CM:261:ILE:HG21	1.91	0.52
38:JC:57:GLU:OE1	38:JC:77:TYR:HB3	2.09	0.52
39:JF:178:VAL:HA	39:JF:223:GLU:O	2.10	0.52
39:JG:40:ARG:HD2	39:JG:42:ILE:HD11	1.91	0.52
47:JP:393:LYS:NZ	67:D4:35:U:O2	2.43	0.52
54:DJ:120:LYS:NZ	66:D3:480:G:OP1	2.41	0.52
58:DQ:41:PRO:O	58:DQ:43:ILE:HD12	2.10	0.52
60:DW:80:ASN:ND2	66:D3:747:C:O3'	2.43	0.52
66:D3:389:G:C6	66:D3:390:G:C6	2.98	0.52
66:D3:1435:G:H2'	66:D3:1437:U:H1'	1.92	0.52
66:D3:1648:A:H2'	66:D3:1649:G:H8	1.73	0.52
3:JA:748:ARG:HE	3:JA:759:THR:H	1.57	0.52
4:UA:77:GLY:CA	4:UA:95:PHE:O	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:130:ASP:OD2	24:UU:25:SER:OG	2.16	0.52
4:UA:450:LEU:HA	4:UA:475:PRO:HB3	1.92	0.52
1:CB:167:GLY:HA2	1:CB:191:GLU:HG2	1.91	0.52
8:UE:473:LYS:NZ	8:UE:475:ALA:HB3	2.25	0.52
9:UF:143:ASN:O	9:UF:146:ILE:HG22	2.10	0.52
13:UJ:25:ARG:NH1	47:JP:16:VAL:HA	2.25	0.52
13:UJ:32:SER:OG	13:UJ:119:GLU:OE1	2.27	0.52
13:UJ:257:ALA:O	13:UJ:261:LEU:HD23	2.10	0.52
13:UJ:1545:ARG:HA	13:UJ:1593:TYR:HE1	1.73	0.52
13:UJ:1670:ILE:HG22	13:UJ:1714:ILE:HD11	1.92	0.52
15:UL:412:GLY:CA	15:UL:430:CYS:H	2.23	0.52
16:UM:334:ALA:HB3	16:UM:381:VAL:HG21	1.91	0.52
16:UM:509:ALA:HA	16:UM:515:CYS:HA	1.92	0.52
20:UQ:534:LYS:HD3	20:UQ:541:TRP:CZ2	2.45	0.52
21:UR:209:THR:O	21:UR:213:SER:OG	2.24	0.52
23:UT:365:PHE:O	23:UT:369:SER:CB	2.57	0.52
23:UT:558:TRP:CZ3	23:UT:603:LEU:HD21	2.45	0.52
23:UT:621:SER:HA	23:UT:624:VAL:HG12	1.92	0.52
23:UT:1055:ARG:O	23:UT:1059:LEU:HG	2.10	0.52
23:UT:1087:VAL:HA	23:UT:1091:ILE:HD13	1.92	0.52
29:CE:69:SER:OG	29:CE:72:LEU:HD23	2.09	0.52
31:CH:341:ALA:HB1	31:CH:401:SER:OG	2.10	0.52
31:CH:529:SER:OG	31:CH:530:GLY:N	2.43	0.52
35:CL:274:TYR:O	35:CL:275:LEU:HD23	2.10	0.52
37:CN:131:ALA:HA	37:CN:134:ILE:HG22	1.92	0.52
42:JJ:153:GLN:NE2	42:JJ:157:ASP:OD2	2.36	0.52
42:JJ:204:ARG:NH2	42:JJ:251:ILE:O	2.35	0.52
42:JJ:220:THR:HG21	42:JJ:243:ALA:HB2	1.92	0.52
46:JO:90:ASP:O	46:JO:93:ILE:HG22	2.09	0.52
47:JP:84:ALA:HB1	47:JP:136:MET:HE3	1.92	0.52
49:DE:238:LEU:HD23	49:DE:242:LYS:HD3	1.92	0.52
51:DG:43:ASP:OD2	51:DG:44:GLU:N	2.42	0.52
54:DJ:107:ARG:NH1	54:DJ:153:GLU:OE1	2.38	0.52
65:D2:148:G:N2	65:D2:149:U:O2	2.42	0.52
66:D3:195:G:H2'	66:D3:196:G:C8	2.45	0.52
66:D3:387:A:H62	66:D3:402:C:P	2.31	0.52
66:D3:1707:A:H2'	66:D3:1708:U:C6	2.45	0.52
2:DA:121:ILE:HB	2:DA:141:ALA:O	2.08	0.52
3:JA:26:PHE:CD1	3:JA:199:LEU:HB2	2.44	0.52
3:JA:89:ASN:HD22	35:CL:95:LYS:NZ	2.08	0.52
7:UD:112:LEU:HD23	7:UD:112:LEU:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:227:VAL:HG22	8:UE:228:ALA:O	2.08	0.52
9:UF:89:GLN:OE1	9:UF:116:TYR:OH	2.26	0.52
9:UF:155:TYR:HD2	9:UF:156:GLU:CD	2.18	0.52
10:UG:183:GLU:O	10:UG:184:LEU:HD23	2.09	0.52
10:UG:325:SER:HB2	10:UG:383:PHE:CZ	2.45	0.52
13:UJ:1395:GLN:HA	13:UJ:1398:VAL:HG22	1.92	0.52
14:UK:105:ASN:HB3	29:CE:330:LEU:HD22	1.91	0.52
15:UL:222:THR:OG1	15:UL:223:ASP:OD1	2.26	0.52
15:UL:248:PHE:HD2	15:UL:251:GLN:HE21	1.57	0.52
17:UN:313:PHE:O	17:UN:315:LEU:N	2.43	0.52
18:UO:34:GLN:OE1	18:UO:35:LEU:N	2.41	0.52
18:UO:192:LEU:O	18:UO:194:ARG:HD2	2.10	0.52
21:UR:145:LYS:HB2	65:D2:310:U:C5	2.44	0.52
25:UV:313:ASN:ND2	25:UV:315:ILE:O	2.42	0.52
25:UV:1115:LEU:HD23	25:UV:1115:LEU:H	1.74	0.52
25:UV:1215:ASN:O	25:UV:1219:ILE:HG12	2.10	0.52
29:CE:76:LEU:HA	29:CE:79:ILE:HG12	1.92	0.52
32:CI:87:VAL:O	32:CI:105:ALA:HB1	2.10	0.52
35:CL:776:GLN:HG3	35:CL:780:ILE:HD11	1.91	0.52
38:JC:232:THR:OG1	38:JC:274:ILE:O	2.27	0.52
39:JF:150:ILE:O	39:JF:159:LEU:N	2.32	0.52
39:JF:177:LYS:HB3	39:JF:205:PHE:CE2	2.45	0.52
42:JJ:124:LEU:HD21	42:JJ:151:ALA:HB1	1.91	0.52
63:Db:19:HIS:CG	63:Db:20:LYS:H	2.28	0.52
65:D2:215:U:H2'	65:D2:216:U:C6	2.45	0.52
75:EH:203:ASN:O	75:EH:207:CYS:N	2.40	0.52
79:EN:351:GLU:O	79:EN:355:LYS:N	2.34	0.52
7:UD:79:TRP:HE1	7:UD:85:TRP:C	2.17	0.52
7:UD:448:THR:OG1	7:UD:470:LEU:O	2.22	0.52
8:UE:86:TRP:HE1	8:UE:98:LYS:HE3	1.74	0.52
8:UE:525:SER:HB2	18:UO:17:PRO:HG2	1.92	0.52
11:UH:529:HIS:CG	11:UH:530:PRO:HD2	2.45	0.52
11:UH:639:SER:HB2	12:UI:499:ILE:HD11	1.91	0.52
13:UJ:703:GLU:O	13:UJ:707:ILE:HG12	2.09	0.52
13:UJ:1654:GLN:HA	13:UJ:1657:ASN:OD1	2.10	0.52
15:UL:415:LYS:HB3	15:UL:417:TRP:HE1	1.75	0.52
16:UM:542:CYS:HB2	16:UM:547:LEU:HB2	1.89	0.52
16:UM:683:LEU:HD21	16:UM:727:ALA:HB1	1.91	0.52
20:UQ:200:ASN:HD22	20:UQ:262:MET:HB3	1.75	0.52
20:UQ:584:PHE:HD2	20:UQ:598:LYS:HB2	1.74	0.52
23:UT:91:LEU:HD13	23:UT:110:LEU:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:399:PHE:O	23:UT:402:ARG:HG3	2.09	0.52
26:UX:65:VAL:CG1	26:UX:86:MET:HE1	2.32	0.52
28:CD:188:ILE:HD11	28:CD:281:LEU:HG	1.91	0.52
28:CD:310:VAL:O	28:CD:314:ARG:HG2	2.10	0.52
29:CE:98:ILE:HD13	29:CE:101:LEU:HD21	1.91	0.52
30:CG:54:MET:O	30:CG:80:PHE:HA	2.10	0.52
31:CH:231:THR:HA	31:CH:273:VAL:HG11	1.91	0.52
33:CJ:109:LEU:HD21	33:CJ:182:GLN:HG3	1.91	0.52
33:CJ:139:LEU:HD23	33:CJ:266:LEU:HD21	1.92	0.52
36:CM:70:THR:HG23	36:CM:72:THR:H	1.74	0.52
39:JF:71:ASP:OD2	39:JG:136:ARG:NH1	2.43	0.52
51:DG:48:TYR:HB3	51:DG:50:PHE:CE2	2.44	0.52
53:DI:81:VAL:HG22	53:DI:91:VAL:HG13	1.91	0.52
55:DL:46:LYS:HA	55:DL:49:ILE:HG12	1.91	0.52
56:DN:46:THR:O	56:DN:50:ILE:HG12	2.10	0.52
65:D2:409:C:H2'	65:D2:410:A:H8	1.75	0.52
66:D3:67:A:O2'	66:D3:69:G:OP1	2.19	0.52
66:D3:151:G:H22	66:D3:163:G:H8	1.58	0.52
66:D3:450:U:H2'	66:D3:451:A:H8	1.75	0.52
66:D3:501:U:O2'	66:D3:502:U:OP2	2.26	0.52
66:D3:1045:C:H2'	66:D3:1046:G:H8	1.75	0.52
66:D3:1074:G:N2	66:D3:1075:C:N3	2.58	0.52
67:D4:4:G:H2'	67:D4:5:A:C8	2.45	0.52
67:D4:75:C:H2'	67:D4:76:U:C6	2.44	0.52
79:EN:504:THR:O	79:EN:508:GLY:N	2.35	0.52
2:DA:134:VAL:HG12	2:DA:219:LYS:HG2	1.92	0.52
2:DA:168:ILE:HA	2:DA:171:ILE:HG22	1.92	0.52
3:JA:25:ILE:O	3:JA:198:CYS:HA	2.10	0.52
3:JA:162:TYR:HA	3:JA:165:THR:HG22	1.92	0.52
3:JA:838:ASP:HA	3:JA:841:ARG:HH21	1.74	0.52
4:UA:652:ASP:OD1	4:UA:653:LEU:N	2.42	0.52
1:CB:91:HIS:ND1	14:UK:164:ASN:OD1	2.43	0.52
5:UB:763:ALA:HA	34:CK:349:ARG:HE	1.75	0.52
9:UF:107:LEU:HD21	9:UF:143:ASN:HD21	1.75	0.52
11:UH:120:LEU:N	11:UH:168:LYS:O	2.42	0.52
13:UJ:354:SER:O	13:UJ:358:TYR:HB2	2.10	0.52
15:UL:362:ILE:O	15:UL:384:THR:HA	2.10	0.52
18:UO:188:SER:OG	18:UO:190:ASP:OD1	2.19	0.52
18:UO:383:ARG:HH22	18:UO:386:ARG:NH2	2.07	0.52
21:UR:241:ALA:HB3	21:UR:586:VAL:HG21	1.92	0.52
22:US:181:THR:HA	22:US:185:TYR:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:654:THR:HG21	23:UT:691:LYS:HD3	1.91	0.52
23:UT:1017:LEU:HD22	23:UT:1022:VAL:HG21	1.92	0.52
24:UU:166:GLU:O	24:UU:185:LYS:HG2	2.10	0.52
24:UU:606:ASP:OD1	24:UU:608:THR:OG1	2.22	0.52
27:UZ:42:THR:HG21	27:UZ:235:ILE:HD12	1.91	0.52
31:CH:195:GLN:NE2	31:CH:196:LEU:O	2.42	0.52
31:CH:371:ARG:HA	31:CH:374:LYS:HG2	1.90	0.52
32:CI:61:LEU:HA	32:CI:64:LEU:HD12	1.91	0.52
33:CJ:206:LEU:O	33:CJ:209:LEU:HB3	2.09	0.52
34:CK:326:LEU:O	35:CL:930:LYS:NZ	2.43	0.52
39:JF:130:ILE:HD12	39:JF:131:PRO:HD2	1.92	0.52
44:JM:71:ALA:O	44:JM:75:LYS:HB2	2.10	0.52
47:JP:289:TYR:HE1	47:JP:297:SER:HB3	1.74	0.52
51:DG:28:PHE:HA	51:DG:102:VAL:HG13	1.91	0.52
56:DN:121:ARG:HH22	66:D3:868:G:H5'	1.73	0.52
60:DW:122:SER:OG	60:DW:123:GLY:N	2.43	0.52
65:D2:208:A:H2'	65:D2:209:G:C8	2.44	0.52
66:D3:192:U:O2'	66:D3:193:U:O5'	2.28	0.52
66:D3:1050:G:C2	66:D3:1051:G:C4	2.98	0.52
66:D3:1483:A:C6	66:D3:1524:A:C5	2.97	0.52
79:EN:433:SER:O	79:EN:437:LYS:N	2.40	0.52
1:CA:222:GLU:OE2	1:CA:229:LYS:HB3	2.10	0.52
3:JA:128:GLU:N	3:JA:128:GLU:OE1	2.43	0.52
1:CB:110:ASN:OD1	1:CB:142:ARG:HB2	2.09	0.52
1:CB:110:ASN:HD21	1:CB:142:ARG:HD3	1.75	0.52
3:JB:635:ILE:N	3:JB:724:GLY:O	2.42	0.52
5:UB:546:LEU:HD12	5:UB:549:ILE:HD11	1.92	0.52
7:UD:35:ARG:HA	7:UD:754:ILE:HG13	1.92	0.52
7:UD:104:TRP:NE1	7:UD:114:LEU:HD13	2.25	0.52
7:UD:298:ALA:HB1	7:UD:333:ILE:HG21	1.92	0.52
8:UE:311:MET:HB3	8:UE:313:TYR:HE2	1.75	0.52
10:UG:467:ALA:O	10:UG:471:MET:HG3	2.09	0.52
11:UH:593:ASP:OD1	11:UH:594:SER:N	2.42	0.52
15:UL:194:HIS:ND1	15:UL:194:HIS:O	2.43	0.52
15:UL:273:TYR:HD1	15:UL:343:TRP:CZ2	2.27	0.52
15:UL:287:ARG:NH2	15:UL:326:LEU:O	2.43	0.52
16:UM:418:ASN:HD22	16:UM:423:LYS:HE3	1.75	0.52
16:UM:461:LEU:O	16:UM:489:ALA:N	2.25	0.52
16:UM:679:THR:HG21	16:UM:723:GLU:HG2	1.91	0.52
18:UO:420:GLU:OE1	18:UO:424:ARG:NE	2.42	0.52
20:UQ:240:PRO:O	20:UQ:243:SER:OG	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:85:LYS:HA	23:UT:88:PHE:HD2	1.75	0.52
23:UT:480:TYR:HB2	23:UT:518:MET:HE2	1.91	0.52
23:UT:700:VAL:HG21	23:UT:782:MET:HG2	1.92	0.52
23:UT:947:ILE:HA	23:UT:950:ILE:HG22	1.91	0.52
23:UT:1112:TRP:HD1	23:UT:1118:LEU:HD13	1.75	0.52
27:UZ:142:ARG:HE	66:D3:1515:A:N6	2.08	0.52
29:CE:15:LEU:HD21	29:CE:42:PHE:HB3	1.91	0.52
32:CI:71:ARG:HE	33:CJ:61:SER:CB	2.22	0.52
33:CJ:154:ILE:O	33:CJ:162:THR:HA	2.09	0.52
33:CJ:259:PHE:O	33:CJ:260:GLU:HB3	2.10	0.52
35:CL:772:MET:SD	35:CL:774:PRO:HD2	2.50	0.52
36:CM:59:VAL:HG21	36:CM:103:MET:SD	2.50	0.52
37:CN:58:LEU:HD12	37:CN:59:PRO:HD2	1.92	0.52
38:JC:238:ASN:HB3	38:JC:279:TRP:CE3	2.45	0.52
46:JO:146:VAL:HG23	46:JO:153:LEU:HD22	1.90	0.52
55:DL:71:LEU:HD23	55:DL:72:THR:N	2.25	0.52
60:DW:111:MET:HE2	60:DW:116:ALA:CA	2.36	0.52
61:DX:130:VAL:CG1	61:DX:135:LEU:HD11	2.40	0.52
66:D3:420:A:H2'	66:D3:421:A:C8	2.45	0.52
66:D3:542:A:H2'	66:D3:542:A:N3	2.23	0.52
66:D3:1264:G:H2'	66:D3:1265:G:C8	2.45	0.52
66:D3:1682:U:O2'	66:D3:1683:C:H5'	2.10	0.52
67:D4:201:C:H2'	67:D4:202:G:H8	1.75	0.52
1:CA:201:HIS:O	1:CA:204:GLY:N	2.44	0.51
2:DA:85:LYS:C	2:DA:86:LEU:HD12	2.35	0.51
4:UA:221:THR:O	4:UA:249:ARG:NH1	2.41	0.51
1:CB:294:ARG:HH22	19:UP:187:SER:HG	1.52	0.51
6:UC:502:LYS:O	6:UC:506:LYS:HG2	2.10	0.51
7:UD:645:ARG:HB3	7:UD:656:ARG:HD2	1.92	0.51
8:UE:234:GLU:HG3	8:UE:293:ASN:OD1	2.10	0.51
9:UF:319:TYR:O	9:UF:322:LEU:HB3	2.10	0.51
13:UJ:493:LYS:O	13:UJ:496:SER:OG	2.24	0.51
13:UJ:701:SER:HA	13:UJ:704:LYS:HD2	1.91	0.51
14:UK:59:ASN:O	14:UK:61:ASP:N	2.41	0.51
15:UL:285:ARG:HB3	15:UL:327:HIS:ND1	2.25	0.51
18:UO:486:ASP:O	18:UO:489:THR:OG1	2.24	0.51
19:UP:155:ILE:O	19:UP:158:LYS:HG3	2.09	0.51
20:UQ:450:TYR:CE2	20:UQ:500:PHE:HZ	2.28	0.51
20:UQ:725:ASN:OD1	20:UQ:726:GLN:N	2.43	0.51
22:US:339:MET:SD	22:US:453:PRO:HD3	2.50	0.51
23:UT:887:ASN:HA	23:UT:890:ASN:HD22	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:UU:118:VAL:HA	24:UU:132:THR:HA	1.91	0.51
25:UV:369:TRP:CZ2	25:UV:495:THR:HG21	2.45	0.51
30:CG:22:ASP:OD1	31:CH:342:ARG:NH2	2.31	0.51
31:CH:200:ASP:O	31:CH:208:PRO:HA	2.10	0.51
36:CM:241:TRP:CZ2	36:CM:262:GLY:HA3	2.45	0.51
36:CM:309:GLY:O	36:CM:353:THR:HA	2.10	0.51
37:CN:99:ASP:OD1	37:CN:101:SER:OG	2.28	0.51
38:JC:166:ASN:HB3	38:JC:169:LYS:HB2	1.92	0.51
45:JN:157:GLN:HE21	45:JN:161:GLU:HG3	1.75	0.51
52:DH:85:PHE:HD1	52:DH:88:ARG:HB2	1.75	0.51
62:DY:40:LEU:HD13	62:DY:60:PHE:HE2	1.75	0.51
66:D3:208:U:H2'	66:D3:209:U:C6	2.44	0.51
66:D3:462:G:H2'	66:D3:463:U:H6	1.75	0.51
66:D3:1203:A:H2'	66:D3:1204:A:C8	2.45	0.51
3:JA:500:PRO:HA	3:JA:504:THR:HG23	1.92	0.51
4:UA:191:ARG:HH21	65:D2:323:A:H2	1.58	0.51
5:UB:616:LEU:HD23	5:UB:619:LEU:HD13	1.92	0.51
13:UJ:491:TYR:HE2	13:UJ:528:ARG:HD3	1.75	0.51
13:UJ:657:GLN:O	13:UJ:661:ILE:HG12	2.10	0.51
13:UJ:658:ALA:O	13:UJ:667:LYS:NZ	2.28	0.51
13:UJ:1708:ILE:O	13:UJ:1712:LYS:HG2	2.10	0.51
15:UL:236:ASP:O	15:UL:241:LYS:NZ	2.31	0.51
18:UO:224:THR:C	18:UO:239:LEU:HD23	2.35	0.51
23:UT:1247:LEU:HD23	23:UT:1287:LEU:HD13	1.91	0.51
23:UT:1433:ASP:O	23:UT:1437:MET:HG2	2.10	0.51
25:UV:1143:MET:HE3	37:CN:172:TYR:HE2	1.74	0.51
29:CE:248:THR:OG1	29:CE:251:ASP:OD2	2.28	0.51
29:CE:324:LYS:O	29:CE:328:ARG:HG3	2.11	0.51
31:CH:443:LEU:HB3	31:CH:471:GLN:HG2	1.90	0.51
37:CN:151:HIS:CE1	37:CN:154:GLU:HG3	2.44	0.51
38:JC:237:ARG:HH22	38:JC:288:LYS:HG3	1.75	0.51
39:JG:91:ILE:HD12	39:JG:208:ALA:O	2.10	0.51
39:JG:99:LEU:HD21	39:JG:238:CYS:HB3	1.92	0.51
47:JP:360:SER:O	47:JP:360:SER:OG	2.28	0.51
47:JP:445:ARG:HB2	47:JP:445:ARG:CZ	2.40	0.51
49:DE:223:ASN:OD1	49:DE:224:ASN:N	2.43	0.51
52:DH:122:HIS:HA	52:DH:125:ILE:HD13	1.91	0.51
52:DH:140:VAL:HA	52:DH:149:ILE:O	2.10	0.51
55:DL:27:THR:OG1	55:DL:30:ARG:NH2	2.41	0.51
56:DN:55:ARG:HH22	63:Db:51:GLN:NE2	2.09	0.51
60:DW:24:GLN:HB3	60:DW:64:GLN:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:DX:85:ALA:HB1	61:DX:122:PHE:HB2	1.91	0.51
62:DY:38:ASP:OD1	62:DY:38:ASP:N	2.43	0.51
66:D3:768:C:H5	66:D3:770:A:N1	2.09	0.51
66:D3:1066:C:H2'	66:D3:1067:C:H6	1.76	0.51
67:D4:52:U:H2'	67:D4:53:U:C6	2.44	0.51
1:CA:107:VAL:CG1	1:CA:141:TYR:HB3	2.40	0.51
3:JA:742:PHE:CD2	3:JA:764:ASN:HB2	2.45	0.51
4:UA:420:ARG:O	4:UA:422:PHE:N	2.43	0.51
4:UA:848:PHE:HA	15:UL:900:PHE:CE2	2.46	0.51
1:CB:188:VAL:HB	1:CB:192:GLY:HA3	1.91	0.51
1:CB:293:LEU:HD22	1:CB:298:ILE:HD12	1.92	0.51
5:UB:485:TYR:CD2	5:UB:486:LYS:HD3	2.45	0.51
5:UB:796:LYS:HA	61:DX:121:ARG:HH12	1.75	0.51
8:UE:277:LYS:HG2	8:UE:324:ASN:HA	1.93	0.51
9:UF:193:ILE:HD12	9:UF:266:ARG:HG2	1.92	0.51
12:UI:424:ILE:HA	12:UI:427:VAL:HG12	1.93	0.51
12:UI:450:ASN:O	12:UI:454:LEU:HG	2.10	0.51
12:UI:495:VAL:O	12:UI:499:ILE:HG12	2.11	0.51
13:UJ:753:ALA:O	13:UJ:757:ILE:HG12	2.10	0.51
13:UJ:1682:GLU:O	13:UJ:1685:GLN:HG2	2.10	0.51
14:UK:166:LEU:HD12	14:UK:170:GLN:HB3	1.92	0.51
14:UK:167:THR:OG1	14:UK:169:ASP:OD2	2.26	0.51
15:UL:330:GLN:NE2	15:UL:367:ILE:HG21	2.24	0.51
16:UM:170:GLY:CA	16:UM:189:HIS:HB2	2.40	0.51
20:UQ:73:LEU:O	20:UQ:77:ILE:HG12	2.11	0.51
23:UT:1036:VAL:O	23:UT:1040:GLU:HG2	2.11	0.51
23:UT:1102:PRO:HD3	23:UT:1143:LYS:HZ1	1.74	0.51
23:UT:1147:ILE:HG22	23:UT:1151:ILE:HD11	1.92	0.51
23:UT:1368:SER:O	23:UT:1372:MET:HG2	2.09	0.51
23:UT:1658:LEU:HA	23:UT:1661:ILE:HG12	1.92	0.51
24:UU:429:ASN:O	24:UU:468:MET:HE1	2.11	0.51
24:UU:459:ASP:OD2	24:UU:483:SER:OG	2.26	0.51
26:UX:84:ARG:CZ	60:DW:97:ARG:HH12	2.23	0.51
27:UZ:110:PHE:CE2	27:UZ:118:LEU:HD11	2.46	0.51
29:CE:300:ILE:HA	29:CE:309:LEU:HD22	1.92	0.51
31:CH:301:ASP:O	31:CH:303:LYS:HG3	2.11	0.51
35:CL:47:SER:OG	61:DX:46:SER:HB3	2.10	0.51
38:JC:292:CYS:HB3	38:JC:296:ILE:HG22	1.92	0.51
39:JF:47:MET:HE1	39:JF:216:PHE:CD2	2.45	0.51
47:JP:310:ASP:OD1	47:JP:311:VAL:N	2.39	0.51
50:DF:200:ASN:HA	50:DF:203:LYS:HZ3	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DG:188:ARG:NH1	66:D3:284:G:O6	2.42	0.51
52:DH:43:PHE:CB	52:DH:62:VAL:HG22	2.41	0.51
65:D2:344:U:H2'	65:D2:345:U:C6	2.45	0.51
65:D2:360:C:H2'	65:D2:361:G:C8	2.46	0.51
66:D3:278:U:H4'	66:D3:279:G:O5'	2.09	0.51
66:D3:420:A:H2'	66:D3:421:A:H8	1.76	0.51
66:D3:485:A:N6	66:D3:486:G:O6	2.44	0.51
66:D3:747:C:H2'	66:D3:748:U:C6	2.46	0.51
66:D3:787:G:H3'	66:D3:788:A:C8	2.44	0.51
67:D4:32:G:C2'	67:D4:33:A:H5"	2.41	0.51
1:CA:142:ARG:NH1	1:CA:186:ASP:OD2	2.36	0.51
3:JA:748:ARG:NH2	3:JA:752:ASN:HB3	2.25	0.51
5:UB:796:LYS:CA	61:DX:121:ARG:HH12	2.23	0.51
7:UD:151:ASP:OD2	7:UD:197:LYS:HE2	2.11	0.51
8:UE:203:ILE:HD12	8:UE:213:ASN:O	2.11	0.51
8:UE:546:ARG:NH1	11:UH:677:ASN:O	2.42	0.51
9:UF:184:GLU:HA	9:UF:187:LYS:HG2	1.93	0.51
9:UF:193:ILE:O	9:UF:197:ILE:HG12	2.11	0.51
9:UF:342:TRP:CH2	9:UF:359:TYR:HA	2.45	0.51
13:UJ:1541:ASP:HA	13:UJ:1544:PHE:CZ	2.45	0.51
14:UK:100:LYS:NZ	14:UK:221:GLN:OE1	2.25	0.51
15:UL:279:LYS:HD3	15:UL:336:TYR:HA	1.92	0.51
15:UL:342:SER:O	15:UL:353:LEU:HD12	2.10	0.51
15:UL:620:ASN:HB2	15:UL:633:CYS:SG	2.50	0.51
16:UM:23:ALA:HA	16:UM:67:LEU:HD11	1.92	0.51
16:UM:333:ILE:HD11	16:UM:379:LEU:HB3	1.93	0.51
16:UM:345:TYR:HE2	16:UM:626:MET:N	2.09	0.51
16:UM:414:VAL:HB	16:UM:428:ALA:CB	2.38	0.51
16:UM:593:CYS:HB3	16:UM:620:LEU:HB3	1.92	0.51
16:UM:690:HIS:CE1	34:CK:519:GLU:HB3	2.46	0.51
16:UM:787:PRO:HB2	34:CK:492:PRO:HG3	1.92	0.51
18:UO:227:VAL:HG12	18:UO:258:LEU:HD21	1.92	0.51
20:UQ:295:TRP:CD1	65:D2:85:G:H5"	2.46	0.51
21:UR:144:LYS:NZ	65:D2:312:U:C4	2.79	0.51
21:UR:463:GLY:N	21:UR:479:ASN:OD1	2.37	0.51
22:US:259:LYS:HE3	22:US:259:LYS:HA	1.92	0.51
22:US:362:MET:HE2	22:US:362:MET:HA	1.93	0.51
23:UT:50:SER:O	23:UT:54:TRP:HD1	1.93	0.51
23:UT:643:LYS:NZ	23:UT:683:ASP:HB2	2.25	0.51
25:UV:533:LEU:HB3	25:UV:606:ASN:HD22	1.75	0.51
25:UV:795:GLU:O	25:UV:798:SER:OG	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:1057:PRO:HB2	25:UV:1060:ILE:HG12	1.92	0.51
25:UV:1097:ASP:OD2	25:UV:1186:ILE:N	2.33	0.51
26:UX:68:ASP:OD1	26:UX:69:THR:N	2.44	0.51
28:CD:230:ASN:OD1	28:CD:233:SER:N	2.35	0.51
28:CD:255:ALA:HA	28:CD:258:SER:HB2	1.91	0.51
35:CL:830:ARG:HD2	35:CL:831:ARG:O	2.10	0.51
38:JC:195:LEU:HB2	38:JC:207:TRP:HB2	1.92	0.51
46:JO:189:ASP:O	46:JO:192:LYS:C	2.54	0.51
50:DF:76:ARG:HH22	58:DQ:122:ARG:HH21	1.59	0.51
51:DG:35:GLU:OE2	51:DG:50:PHE:N	2.43	0.51
54:DJ:7:THR:OG1	54:DJ:8:TYR:N	2.41	0.51
65:D2:212:U:H2'	65:D2:213:G:H8	1.75	0.51
65:D2:243:A:N3	65:D2:271:G:N2	2.58	0.51
67:D4:77:U:H2'	67:D4:78:G:H8	1.75	0.51
2:DA:105:PHE:HD2	2:DA:213:ARG:HA	1.74	0.51
4:UA:653:LEU:HD11	65:D2:331:U:H3	1.76	0.51
1:CB:236:MET:H	29:CE:121:LYS:NZ	2.07	0.51
7:UD:309:GLN:NE2	7:UD:318:ASN:HA	2.25	0.51
13:UJ:646:ASN:HB2	13:UJ:649:VAL:HB	1.92	0.51
13:UJ:1586:LEU:O	13:UJ:1587:ARG:HD3	2.11	0.51
13:UJ:1762:GLU:HG2	13:UJ:1763:PRO:HD2	1.91	0.51
14:UK:70:ARG:HH21	14:UK:78:LEU:CD2	2.22	0.51
14:UK:223:GLU:OE2	14:UK:226:LYS:HD2	2.11	0.51
15:UL:634:SER:OG	15:UL:636:ASP:OD1	2.28	0.51
15:UL:901:ASN:HD21	16:UM:761:ARG:N	2.08	0.51
20:UQ:722:LEU:HD11	20:UQ:766:ILE:HD12	1.92	0.51
23:UT:215:VAL:HA	23:UT:218:LYS:HD2	1.92	0.51
23:UT:899:ASP:OD1	53:DI:41:LYS:NZ	2.43	0.51
23:UT:1755:GLU:HG3	23:UT:1795:ARG:HB3	1.92	0.51
25:UV:401:LEU:O	25:UV:410:LYS:NZ	2.30	0.51
25:UV:439:HIS:N	25:UV:458:ILE:O	2.34	0.51
25:UV:1010:GLU:OE1	25:UV:1010:GLU:N	2.43	0.51
25:UV:1075:LEU:HD11	25:UV:1080:LEU:HD13	1.92	0.51
29:CE:216:SER:O	29:CE:220:GLU:HG2	2.10	0.51
31:CH:333:MET:SD	31:CH:335:ARG:NH1	2.83	0.51
35:CL:51:GLU:O	61:DX:50:LYS:HE3	2.09	0.51
35:CL:211:ILE:HG13	35:CL:212:ASN:N	2.25	0.51
35:CL:871:MET:N	35:CL:929:VAL:O	2.42	0.51
38:JC:4:LYS:HG3	38:JC:363:LEU:HD12	1.93	0.51
38:JC:5:SER:O	38:JC:14:TYR:HA	2.11	0.51
42:JJ:172:ILE:HB	42:JJ:176:ARG:HH12	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:JP:15:PRO:HG3	47:JP:22:SER:HA	1.92	0.51
54:DJ:133:HIS:ND1	54:DJ:162:SER:OG	2.22	0.51
55:DL:99:ARG:HG2	55:DL:100:TYR:N	2.25	0.51
63:Db:19:HIS:CG	63:Db:20:LYS:N	2.79	0.51
65:D2:120:C:H2'	65:D2:121:G:O4'	2.10	0.51
66:D3:480:G:C2	66:D3:509:G:N3	2.79	0.51
66:D3:1155:G:N1	66:D3:1156:C:N3	2.59	0.51
2:DA:46:THR:HG22	2:DA:47:LEU:H	1.74	0.51
3:JA:81:ILE:HD11	3:JA:88:VAL:HA	1.91	0.51
3:JA:505:ARG:HH12	3:JA:643:GLU:HB2	1.75	0.51
3:JA:721:HIS:HB3	3:JA:769:ARG:HH11	1.75	0.51
4:UA:549:GLN:HE21	4:UA:552:ASN:HB3	1.76	0.51
7:UD:103:CYS:SG	7:UD:115:PHE:HB2	2.51	0.51
7:UD:242:TRP:HD1	7:UD:282:ASP:HB2	1.76	0.51
11:UH:80:ALA:HA	11:UH:88:ASP:HA	1.92	0.51
13:UJ:77:SER:O	13:UJ:80:SER:N	2.44	0.51
13:UJ:1683:HIS:HA	13:UJ:1686:ILE:HG12	1.93	0.51
13:UJ:1701:SER:O	13:UJ:1705:LEU:HD23	2.10	0.51
16:UM:296:ILE:C	16:UM:298:SER:H	2.16	0.51
18:UO:435:ASP:OD1	18:UO:436:GLU:N	2.39	0.51
20:UQ:33:ASN:ND2	20:UQ:345:GLN:HE22	2.08	0.51
22:US:387:THR:HG22	22:US:398:VAL:HG11	1.93	0.51
23:UT:344:MET:HE2	23:UT:384:TYR:CE1	2.46	0.51
23:UT:1017:LEU:HD21	23:UT:1065:VAL:HG21	1.93	0.51
23:UT:1296:PRO:O	23:UT:1297:GLU:HG3	2.11	0.51
23:UT:1543:GLN:HA	23:UT:1546:GLN:NE2	2.26	0.51
24:UU:234:ASN:OD1	24:UU:235:MET:N	2.43	0.51
24:UU:829:ASP:OD1	24:UU:830:TYR:N	2.43	0.51
25:UV:654:SER:HG	25:UV:666:CYS:HG	1.53	0.51
30:CG:38:ASN:HA	30:CG:41:THR:HG22	1.92	0.51
35:CL:219:GLU:HA	35:CL:222:ASN:OD1	2.11	0.51
35:CL:243:TYR:O	35:CL:276:HIS:HB2	2.11	0.51
35:CL:876:PRO:HB2	35:CL:879:THR:HG22	1.91	0.51
42:JJ:121:VAL:HG23	42:JJ:122:GLU:OE1	2.10	0.51
49:DE:115:THR:HG1	49:DE:117:GLU:CD	2.19	0.51
56:DN:20:ARG:HH21	60:DW:56:HIS:CG	2.28	0.51
66:D3:315:A:N3	66:D3:316:A:H1'	2.25	0.51
66:D3:467:G:O2'	66:D3:469:C:OP2	2.29	0.51
67:D4:318:U:H4'	67:D4:319:G:O5'	2.11	0.51
2:DA:205:PHE:HE2	66:D3:1065:A:H4'	1.75	0.51
3:JA:185:ASN:O	3:JA:189:ILE:HG12	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UD:41:PHE:CD1	7:UD:43:PRO:HD3	2.45	0.51
12:UI:502:ARG:O	12:UI:506:LEU:HD23	2.10	0.51
13:UJ:751:ILE:HA	13:UJ:754:GLU:HG3	1.93	0.51
14:UK:151:PHE:HD2	14:UK:152:PHE:CE2	2.29	0.51
15:UL:401:ASP:HB2	15:UL:403:ASN:HD22	1.75	0.51
15:UL:580:ASP:OD1	15:UL:581:ILE:N	2.44	0.51
15:UL:905:LEU:HD12	16:UM:760:ILE:HD11	1.93	0.51
16:UM:14:PRO:HD3	16:UM:639:GLY:C	2.36	0.51
16:UM:126:ILE:HG12	16:UM:140:PHE:HB2	1.93	0.51
16:UM:535:GLY:C	16:UM:553:GLY:H	2.19	0.51
16:UM:619:ARG:HB3	16:UM:637:ALA:H	1.76	0.51
18:UO:128:HIS:CD2	18:UO:172:ARG:HE	2.29	0.51
18:UO:259:ASP:O	18:UO:272:LEU:HD12	2.11	0.51
18:UO:284:PHE:CD1	18:UO:292:VAL:HA	2.45	0.51
19:UP:185:GLN:OE1	19:UP:185:GLN:N	2.39	0.51
21:UR:511:LEU:HD13	21:UR:544:VAL:HG21	1.91	0.51
23:UT:291:LEU:HB3	23:UT:295:TYR:CZ	2.45	0.51
23:UT:363:ALA:HB1	23:UT:403:LEU:HD21	1.92	0.51
23:UT:489:SER:O	23:UT:490:LYS:HG2	2.11	0.51
23:UT:1001:VAL:O	23:UT:1005:ASN:ND2	2.44	0.51
23:UT:1399:LEU:HA	23:UT:1402:ILE:HG22	1.91	0.51
24:UU:738:ASP:HA	42:JJ:269:ARG:NH2	2.26	0.51
24:UU:825:SER:OG	24:UU:863:TRP:NE1	2.44	0.51
25:UV:309:LEU:HB2	25:UV:312:ARG:HG2	1.91	0.51
25:UV:1138:ASP:HA	25:UV:1141:GLU:CD	2.36	0.51
28:CD:44:PHE:CZ	28:CD:48:ILE:HD12	2.46	0.51
28:CD:195:VAL:HG13	28:CD:216:PHE:HE2	1.76	0.51
29:CE:188:TYR:HB3	29:CE:205:TYR:OH	2.11	0.51
29:CE:328:ARG:HH12	44:JM:113:MET:HE2	1.75	0.51
30:CG:50:GLU:N	30:CG:102:ILE:O	2.42	0.51
31:CH:68:LYS:HE2	31:CH:71:LEU:HD12	1.91	0.51
32:CI:142:LEU:HD23	32:CI:142:LEU:H	1.76	0.51
33:CJ:139:LEU:HB2	33:CJ:157:PHE:CZ	2.46	0.51
36:CM:48:TYR:CG	36:CM:94:LYS:HG3	2.46	0.51
38:JC:162:LEU:N	38:JC:176:PHE:O	2.44	0.51
39:JF:187:ILE:HD13	39:JF:225:VAL:HG11	1.92	0.51
42:JJ:106:MET:HE2	42:JJ:135:LYS:HB3	1.93	0.51
42:JJ:242:MET:HE2	42:JJ:242:MET:N	2.25	0.51
55:DL:104:HIS:NE2	66:D3:349:U:OP1	2.43	0.51
56:DN:48:SER:OG	56:DN:86:GLU:OE2	2.25	0.51
62:DY:15:ASN:HD22	62:DY:20:ARG:HE	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:647:G:N2	66:D3:687:G:H22	2.09	0.51
66:D3:1620:C:O2'	66:D3:1621:U:OP1	2.29	0.51
1:CA:306:LEU:HD11	1:CA:313:HIS:HB2	1.92	0.51
4:UA:772:ALA:HA	4:UA:775:LEU:HB2	1.92	0.51
8:UE:232:ILE:HG13	8:UE:246:VAL:HG13	1.91	0.51
9:UF:336:ASN:O	9:UF:339:LEU:HG	2.11	0.51
10:UG:287:TYR:CD1	10:UG:304:ARG:HD2	2.46	0.51
10:UG:379:GLU:N	10:UG:393:GLY:O	2.44	0.51
13:UJ:81:LEU:HD11	13:UJ:125:PHE:HE1	1.75	0.51
13:UJ:1472:VAL:O	13:UJ:1476:LEU:HG	2.11	0.51
18:UO:84:VAL:HA	18:UO:100:ASP:HA	1.92	0.51
18:UO:215:VAL:HA	18:UO:230:GLY:HA3	1.92	0.51
18:UO:229:CYS:HB2	18:UO:258:LEU:HD22	1.93	0.51
18:UO:245:LEU:HB3	18:UO:246:TYR:CD2	2.46	0.51
18:UO:379:VAL:HG22	65:D2:90:G:H5"	1.92	0.51
20:UQ:239:PHE:CD1	20:UQ:244:ILE:HD11	2.46	0.51
23:UT:977:PHE:O	23:UT:980:ASN:C	2.54	0.51
23:UT:1357:ASN:HB2	23:UT:1363:LEU:HD11	1.92	0.51
23:UT:1584:ASN:HB2	23:UT:1587:LYS:HZ2	1.76	0.51
24:UU:51:VAL:HG12	24:UU:83:LEU:HD13	1.91	0.51
24:UU:302:THR:O	24:UU:310:ILE:HA	2.10	0.51
25:UV:1221:HIS:HE1	37:CN:26:LEU:HD22	1.76	0.51
28:CD:187:ASP:OD2	29:CE:180:TYR:OH	2.27	0.51
28:CD:388:ARG:HE	30:CG:66:HIS:CG	2.29	0.51
29:CE:19:ASP:HB3	29:CE:23:TYR:OH	2.10	0.51
30:CG:16:LEU:O	30:CG:20:ILE:HG12	2.10	0.51
35:CL:124:ASP:CG	35:CL:127:ALA:H	2.19	0.51
35:CL:212:ASN:HB3	35:CL:214:ARG:NH2	2.26	0.51
36:CM:91:PRO:HD2	36:CM:99:PHE:HE2	1.76	0.51
36:CM:241:TRP:CE2	36:CM:262:GLY:HA3	2.46	0.51
36:CM:244:THR:HG22	36:CM:259:GLU:HB2	1.91	0.51
47:JP:147:LEU:C	47:JP:148:TRP:CD1	2.88	0.51
47:JP:453:TYR:HE2	66:D3:-2:A:C5	2.29	0.51
57:DO:84:ARG:HE	57:DO:120:PRO:CG	2.24	0.51
65:D2:379:A:C2	65:D2:380:A:C4	2.98	0.51
66:D3:1165:G:C2	66:D3:1166:A:C4	2.99	0.51
75:EH:232:LYS:O	75:EH:236:THR:N	2.43	0.51
79:EN:646:TYR:O	79:EN:650:GLU:N	2.40	0.51
3:JA:6:ILE:HD13	3:JA:205:LEU:HB3	1.93	0.51
4:UA:395:PHE:CE2	4:UA:402:MET:HE2	2.46	0.51
1:CB:264:GLN:HB3	1:CB:319:ARG:HH21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:305:TRP:NE1	8:UE:307:GLN:OE1	2.39	0.51
8:UE:454:GLU:OE2	65:D2:136:U:H5"	2.11	0.51
9:UF:63:VAL:HG22	21:UR:26:VAL:HG23	1.92	0.51
13:UJ:247:ALA:HA	21:UR:205:ILE:HD11	1.91	0.51
14:UK:196:LYS:HD2	65:D2:424:G:P	2.51	0.51
15:UL:42:ILE:HG12	15:UL:51:ILE:HG22	1.91	0.51
16:UM:268:GLN:NE2	16:UM:277:VAL:HG11	2.26	0.51
16:UM:413:ILE:HB	16:UM:426:ILE:HD11	1.91	0.51
16:UM:513:LYS:HE2	16:UM:513:LYS:HA	1.92	0.51
16:UM:676:GLY:HA2	16:UM:678:TRP:CZ2	2.45	0.51
20:UQ:53:LYS:HG2	20:UQ:65:THR:HG23	1.93	0.51
20:UQ:875:MET:HB3	20:UQ:887:PHE:HE1	1.74	0.51
22:US:289:PHE:HE2	22:US:292:PRO:HA	1.75	0.51
23:UT:1104:SER:HA	23:UT:1107:ARG:HG2	1.93	0.51
23:UT:1695:HIS:NE2	23:UT:1749:LYS:HD3	2.26	0.51
24:UU:42:GLY:HA3	24:UU:49:TYR:CZ	2.46	0.51
25:UV:532:PRO:HG2	25:UV:693:LYS:HB3	1.93	0.51
25:UV:638:MET:HE2	25:UV:638:MET:N	2.26	0.51
28:CD:18:PHE:CD2	28:CD:50:LEU:HA	2.45	0.51
35:CL:619:GLU:C	35:CL:623:LYS:HZ2	2.19	0.51
36:CM:193:GLY:HA3	36:CM:245:LEU:HD23	1.92	0.51
37:CN:67:MET:HE1	37:CN:87:LEU:HD22	1.92	0.51
38:JC:253:TYR:CE1	38:JC:265:ILE:HG23	2.44	0.51
45:JN:292:LYS:HG2	66:D3:9:U:OP2	2.11	0.51
49:DE:161:LYS:O	49:DE:170:THR:OG1	2.22	0.51
55:DL:116:ARG:HE	55:DL:117:VAL:H	1.59	0.51
65:D2:426:G:N2	65:D2:428:A:H3'	2.26	0.51
66:D3:175:G:C2	66:D3:266:A:C4	2.99	0.51
66:D3:379:U:H2'	66:D3:380:U:C5	2.46	0.51
66:D3:1130:G:H5"	66:D3:1131:A:H2'	1.93	0.51
66:D3:1592:A:N3	66:D3:1605:G:C2	2.79	0.51
1:CA:244:VAL:O	1:CA:249:GLN:NE2	2.43	0.51
2:DA:149:GLN:CD	66:D3:1066:C:H4'	2.36	0.51
3:JA:658:ARG:HH12	3:JA:766:LEU:H	1.57	0.51
3:JA:745:VAL:HG21	3:JA:763:LEU:HB3	1.93	0.51
7:UD:533:HIS:HB2	7:UD:544:SER:OG	2.11	0.51
8:UE:10:TYR:O	8:UE:65:TRP:NE1	2.43	0.51
8:UE:46:TRP:HB3	8:UE:48:GLU:OE2	2.10	0.51
9:UF:172:LEU:HD12	9:UF:182:TRP:CE2	2.45	0.51
10:UG:284:ARG:HH22	47:JP:31:GLU:HG3	1.76	0.51
13:UJ:272:LYS:HG2	13:UJ:306:LEU:HD11	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:283:LEU:HD21	13:UJ:323:PHE:HA	1.92	0.51
13:UJ:745:TYR:HD2	13:UJ:748:LEU:HB2	1.75	0.51
13:UJ:1452:GLU:HA	13:UJ:1455:LYS:HD2	1.92	0.51
13:UJ:1544:PHE:HA	13:UJ:1547:LEU:HD12	1.91	0.51
13:UJ:1748:VAL:O	13:UJ:1752:LEU:HB2	2.11	0.51
15:UL:22:ASN:ND2	15:UL:85:LEU:H	2.09	0.51
15:UL:588:ILE:HB	15:UL:600:TRP:HB2	1.93	0.51
17:UN:309:ASP:OD1	17:UN:310:HIS:N	2.44	0.51
20:UQ:437:THR:HG22	20:UQ:709:ARG:HE	1.75	0.51
21:UR:20:GLN:O	21:UR:24:LYS:HG2	2.11	0.51
21:UR:365:ASN:HD21	21:UR:372:HIS:CE1	2.28	0.51
23:UT:1352:LEU:O	23:UT:1355:ILE:HG22	2.11	0.51
23:UT:1378:ILE:HG12	23:UT:1390:SER:OG	2.11	0.51
23:UT:1492:TYR:O	23:UT:1495:SER:OG	2.29	0.51
23:UT:1968:ARG:NH1	23:UT:2005:ALA:HB2	2.25	0.51
25:UV:846:GLU:OE1	25:UV:846:GLU:N	2.42	0.51
25:UV:900:GLU:OE2	25:UV:904:HIS:NE2	2.44	0.51
25:UV:1136:LEU:HA	25:UV:1139:LEU:HD12	1.92	0.51
29:CE:191:HIS:ND1	29:CE:247:ILE:HG12	2.27	0.51
30:CG:81:VAL:HG11	30:CG:87:LEU:HD12	1.93	0.51
31:CH:64:ARG:O	31:CH:68:LYS:HG2	2.11	0.51
31:CH:449:ASN:OD1	31:CH:450:ASP:N	2.43	0.51
35:CL:210:VAL:O	35:CL:210:VAL:HG22	2.10	0.51
35:CL:854:PHE:CZ	35:CL:888:PRO:HD2	2.45	0.51
38:JC:280:LEU:HB2	38:JC:287:ASN:HB2	1.92	0.51
39:JG:104:ILE:HD11	39:JG:109:LYS:HB2	1.92	0.51
46:JO:260:VAL:HA	46:JO:263:GLU:HG2	1.92	0.51
53:DI:104:ILE:C	53:DI:164:ARG:HH12	2.19	0.51
66:D3:487:G:N2	66:D3:488:G:C5	2.79	0.51
66:D3:527:A:H2'	66:D3:528:U:C6	2.46	0.51
67:D4:76:U:H2'	67:D4:77:U:C6	2.46	0.51
69:EB:164:LYS:O	69:EB:185:VAL:N	2.35	0.51
79:EN:93:VAL:O	79:EN:113:VAL:N	2.43	0.51
79:EN:1022:GLY:O	79:EN:1026:ARG:N	2.42	0.51
4:UA:254:HIS:HB3	4:UA:292:PHE:CD2	2.46	0.50
4:UA:519:LEU:HD23	4:UA:519:LEU:H	1.75	0.50
3:JB:751:ALA:HA	3:JB:758:HIS:HA	1.92	0.50
5:UB:524:LEU:O	5:UB:527:GLN:HB3	2.11	0.50
7:UD:213:TRP:NE1	7:UD:225:LEU:HB3	2.26	0.50
7:UD:490:SER:O	7:UD:493:ASP:N	2.44	0.50
7:UD:767:LYS:NZ	19:UP:214:GLY:H	2.08	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:UG:116:ILE:CG1	10:UG:398:ILE:HD12	2.41	0.50
10:UG:227:GLU:C	10:UG:228:LEU:HD12	2.35	0.50
10:UG:482:ASP:OD2	10:UG:512:ARG:NE	2.43	0.50
11:UH:606:ASP:OD2	11:UH:606:ASP:N	2.44	0.50
13:UJ:187:ASP:OD2	29:CE:414:ARG:NH2	2.44	0.50
13:UJ:771:ILE:O	13:UJ:775:ILE:HG12	2.11	0.50
13:UJ:1483:SER:HA	13:UJ:1486:GLU:CD	2.35	0.50
14:UK:221:GLN:O	14:UK:224:LEU:HB2	2.11	0.50
15:UL:189:TRP:HD1	15:UL:196:CYS:HA	1.77	0.50
15:UL:294:ARG:O	15:UL:297:LYS:HG3	2.12	0.50
15:UL:789:GLN:OE1	15:UL:790:GLY:N	2.44	0.50
16:UM:490:HIS:CE1	16:UM:514:THR:HG23	2.46	0.50
21:UR:211:ILE:O	21:UR:214:THR:OG1	2.23	0.50
21:UR:242:ASN:ND2	21:UR:247:SER:OG	2.44	0.50
22:US:329:ARG:HA	22:US:329:ARG:NH1	2.25	0.50
23:UT:1338:SER:HA	23:UT:1377:PHE:HE1	1.75	0.50
23:UT:1441:LEU:O	23:UT:1468:ARG:NH2	2.45	0.50
23:UT:1751:TYR:HB3	23:UT:1795:ARG:HG3	1.92	0.50
25:UV:117:LYS:HB3	25:UV:119:LYS:HG2	1.92	0.50
25:UV:1048:SER:OG	25:UV:1050:ILE:HG22	2.11	0.50
28:CD:400:PHE:CZ	30:CG:60:PRO:HD3	2.45	0.50
29:CE:37:LYS:HA	29:CE:40:LYS:HE2	1.94	0.50
30:CG:64:LEU:HD23	30:CG:64:LEU:H	1.75	0.50
32:CI:62:SER:O	32:CI:71:ARG:NH1	2.44	0.50
35:CL:40:ALA:O	35:CL:43:MET:HG3	2.11	0.50
35:CL:310:THR:HG22	35:CL:312:PHE:H	1.75	0.50
35:CL:551:LYS:O	35:CL:555:MET:HG2	2.11	0.50
38:JC:210:ARG:NH1	43:JK:487:ASP:OD2	2.45	0.50
38:JC:254:ILE:HB	38:JC:264:ILE:HB	1.93	0.50
39:JG:204:VAL:HG21	39:JG:241:PHE:CE2	2.45	0.50
50:DF:103:ASN:HA	50:DF:106:LYS:NZ	2.25	0.50
51:DG:57:ASP:OD2	51:DG:61:PHE:HB2	2.11	0.50
51:DG:139:ASN:HA	51:DG:142:ARG:HD2	1.93	0.50
52:DH:60:ILE:HB	52:DH:92:PHE:HA	1.94	0.50
61:DX:112:LYS:NZ	67:D4:10:C:OP1	2.45	0.50
65:D2:288:G:N2	65:D2:289:U:C2	2.79	0.50
66:D3:337:G:P	66:D3:339:C:H41	2.34	0.50
66:D3:766:U:O2'	66:D3:767:U:OP2	2.29	0.50
66:D3:1753:A:H2'	66:D3:1754:A:C8	2.45	0.50
3:JA:106:VAL:HG23	3:JA:110:GLU:HG3	1.93	0.50
3:JA:651:SER:O	3:JA:654:ILE:HG22	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:441:SER:O	4:UA:443:GLU:N	2.45	0.50
4:UA:467:ASP:OD1	4:UA:468:ALA:N	2.44	0.50
5:UB:733:THR:O	5:UB:736:GLU:HG3	2.11	0.50
7:UD:185:ARG:NH2	30:CF:126:ILE:HG22	2.25	0.50
8:UE:90:VAL:HG23	8:UE:91:LEU:H	1.76	0.50
8:UE:94:GLU:OE1	8:UE:95:VAL:N	2.43	0.50
10:UG:350:ASP:OD1	10:UG:351:SER:N	2.45	0.50
13:UJ:1547:LEU:O	13:UJ:1551:LEU:HG	2.11	0.50
16:UM:18:GLY:HA3	16:UM:37:LEU:HA	1.92	0.50
17:UN:298:TRP:CD1	47:JP:231:GLU:OE1	2.64	0.50
18:UO:298:PHE:HE1	18:UO:330:ARG:HH21	1.58	0.50
18:UO:374:ILE:HG12	21:UR:289:HIS:CD2	2.41	0.50
18:UO:405:PHE:HE2	18:UO:442:LEU:HD13	1.76	0.50
23:UT:332:ASP:O	23:UT:336:ILE:HG12	2.12	0.50
23:UT:832:LEU:HB3	23:UT:868:LEU:HD22	1.93	0.50
23:UT:1241:GLN:HA	23:UT:1244:LEU:HG	1.91	0.50
24:UU:535:THR:OG1	24:UU:536:LEU:N	2.44	0.50
24:UU:885:MET:HE1	24:UU:912:TRP:CE3	2.47	0.50
25:UV:565:LYS:HZ2	25:UV:690:VAL:HG22	1.76	0.50
30:CG:35:LYS:NZ	67:D4:254:A:C5	2.80	0.50
31:CH:545:LYS:HE2	31:CH:556:VAL:O	2.10	0.50
32:CI:33:MET:HE1	32:CI:41:ARG:CA	2.38	0.50
35:CL:38:LYS:HA	35:CL:41:ARG:HG2	1.92	0.50
35:CL:562:GLU:HA	35:CL:565:ARG:HG3	1.92	0.50
35:CL:890:CYS:SG	35:CL:919:VAL:HG11	2.51	0.50
36:CM:130:ILE:HG13	36:CM:131:GLU:N	2.27	0.50
38:JC:329:PHE:O	38:JC:340:THR:HA	2.11	0.50
46:JO:166:VAL:HG12	46:JO:171:VAL:HG22	1.93	0.50
47:JP:296:ARG:NH1	66:D3:-3:U:O2	2.45	0.50
49:DE:100:ARG:HB3	49:DE:112:HIS:HB3	1.93	0.50
52:DH:93:LEU:HA	52:DH:128:ASP:OD1	2.11	0.50
52:DH:112:ARG:HH22	66:D3:638:U:H1'	1.75	0.50
54:DJ:68:LYS:HG2	54:DJ:72:GLU:OE2	2.11	0.50
63:Db:64:CYS:HB3	63:Db:73:LEU:HD23	1.94	0.50
65:D2:269:G:C2	65:D2:270:U:C2	2.99	0.50
65:D2:307:C:O2'	65:D2:311:C:OP2	2.28	0.50
65:D2:311:C:C2	65:D2:312:U:C5	2.99	0.50
66:D3:1130:G:H3'	66:D3:1131:A:C8	2.46	0.50
66:D3:1130:G:H3'	66:D3:1131:A:H8	1.76	0.50
66:D3:1629:G:H1'	66:D3:1631:A:H62	1.76	0.50
67:D4:12:U:H3	67:D4:13:C:N4	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:EK:618:TYR:N	78:EK:648:SER:O	2.41	0.50
4:UA:272:THR:O	4:UA:273:ARG:HD3	2.12	0.50
4:UA:635:MET:HE2	67:D4:60:A:C5	2.47	0.50
4:UA:813:HIS:HB2	4:UA:817:PHE:HE2	1.76	0.50
1:CB:214:ARG:HB2	1:CB:217:ILE:HD12	1.93	0.50
7:UD:225:LEU:O	7:UD:225:LEU:HD12	2.12	0.50
8:UE:234:GLU:HB3	8:UE:247:THR:HB	1.93	0.50
9:UF:313:PHE:O	9:UF:316:SER:OG	2.25	0.50
13:UJ:717:GLU:OE1	13:UJ:747:GLN:NE2	2.44	0.50
13:UJ:1439:SER:O	13:UJ:1443:LEU:HG	2.12	0.50
13:UJ:1614:GLU:HA	13:UJ:1619:ARG:NH2	2.27	0.50
18:UO:90:ARG:HG3	18:UO:132:PHE:CD1	2.47	0.50
18:UO:251:PHE:CD1	18:UO:255:VAL:HG12	2.46	0.50
18:UO:405:PHE:CE2	18:UO:442:LEU:HD13	2.46	0.50
20:UQ:663:LYS:O	20:UQ:670:LEU:HD12	2.11	0.50
21:UR:41:ASN:ND2	21:UR:43:ASP:OD2	2.43	0.50
22:US:447:ASP:OD1	22:US:448:VAL:N	2.44	0.50
22:US:467:ALA:O	22:US:470:MET:HB3	2.10	0.50
23:UT:197:SER:HA	23:UT:200:VAL:HG22	1.93	0.50
23:UT:213:ARG:O	23:UT:217:GLU:HG2	2.11	0.50
23:UT:216:PHE:CE1	23:UT:271:SER:HB2	2.46	0.50
23:UT:366:ILE:HG22	23:UT:407:ARG:HD3	1.94	0.50
23:UT:1531:ILE:O	23:UT:1535:LYS:HG2	2.11	0.50
24:UU:484:ILE:HB	24:UU:498:TYR:HB2	1.94	0.50
25:UV:141:TRP:NE1	25:UV:178:TYR:HB3	2.27	0.50
25:UV:1166:ARG:NH2	25:UV:1179:LYS:O	2.45	0.50
26:UX:155:THR:OG1	26:UX:156:ASN:N	2.43	0.50
29:CE:366:LYS:HE3	29:CE:393:LYS:NZ	2.27	0.50
35:CL:89:LEU:HD21	35:CL:93:MET:HE3	1.94	0.50
36:CM:200:VAL:HG11	36:CM:204:LEU:HD13	1.93	0.50
47:JP:270:ASN:HB3	47:JP:313:PHE:CE2	2.46	0.50
49:DE:15:PRO:HG2	49:DE:18:TRP:CD2	2.47	0.50
49:DE:238:LEU:HD12	49:DE:239:PRO:HD2	1.93	0.50
55:DL:59:PRO:HD2	55:DL:112:SER:HB2	1.93	0.50
56:DN:61:THR:HG23	56:DN:62:GLN:H	1.75	0.50
56:DN:102:LEU:O	56:DN:105:ASN:C	2.54	0.50
58:DQ:122:ARG:NH1	66:D3:1584:G:OP2	2.44	0.50
65:D2:145:A:H2'	65:D2:146:G:H8	1.77	0.50
66:D3:449:C:H2'	66:D3:450:U:C6	2.46	0.50
66:D3:590:C:H2'	66:D3:591:A:H8	1.76	0.50
66:D3:1590:G:N2	66:D3:1591:C:C2	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DA:127:VAL:HG21	2:DA:176:VAL:HG21	1.94	0.50
2:DA:214:LYS:HE2	2:DA:216:LYS:HG2	1.93	0.50
3:JA:69:HIS:ND1	3:JA:71:LYS:HB3	2.27	0.50
3:JA:752:ASN:ND2	3:JA:757:GLU:O	2.42	0.50
4:UA:188:ASN:HD21	65:D2:321:G:H1'	1.75	0.50
4:UA:793:GLU:HA	4:UA:796:LEU:HB2	1.93	0.50
4:UA:836:VAL:O	4:UA:840:THR:HG23	2.11	0.50
4:UA:845:THR:O	4:UA:849:LEU:HD23	2.12	0.50
1:CB:286:PHE:O	1:CB:290:VAL:HG23	2.12	0.50
5:UB:769:GLU:O	5:UB:773:GLU:HG2	2.10	0.50
7:UD:679:LEU:C	7:UD:680:THR:HG1	2.19	0.50
8:UE:282:VAL:HG12	8:UE:283:SER:O	2.11	0.50
8:UE:456:VAL:O	8:UE:459:ASN:HB2	2.11	0.50
9:UF:50:ILE:HD11	9:UF:109:PHE:CG	2.46	0.50
11:UH:673:THR:HG21	12:UI:493:LEU:HD13	1.93	0.50
13:UJ:684:TYR:HE2	13:UJ:723:LEU:HD23	1.75	0.50
13:UJ:1581:LYS:O	13:UJ:1584:GLU:HG3	2.11	0.50
15:UL:19:SER:N	15:UL:44:SER:O	2.40	0.50
15:UL:276:ASN:HD21	15:UL:282:GLU:HG2	1.76	0.50
15:UL:279:LYS:HG2	15:UL:335:LEU:O	2.11	0.50
15:UL:920:PHE:H	15:UL:926:GLN:CD	2.19	0.50
15:UL:923:GLU:HG2	24:UU:745:LYS:HZ3	1.77	0.50
16:UM:595:ALA:HA	16:UM:619:ARG:HD3	1.93	0.50
18:UO:211:HIS:ND1	18:UO:235:LYS:HE2	2.27	0.50
21:UR:241:ALA:HB3	21:UR:586:VAL:CG2	2.41	0.50
21:UR:465:THR:HG23	21:UR:467:THR:H	1.76	0.50
21:UR:560:THR:O	21:UR:562:LEU:N	2.43	0.50
23:UT:95:ILE:O	23:UT:98:HIS:ND1	2.45	0.50
23:UT:457:PHE:O	23:UT:461:ILE:HG12	2.11	0.50
23:UT:472:ASP:O	23:UT:476:LEU:HG	2.11	0.50
23:UT:1204:SER:O	23:UT:1208:MET:HG3	2.11	0.50
24:UU:140:TYR:CD1	24:UU:153:PHE:HA	2.47	0.50
24:UU:869:THR:O	24:UU:873:LYS:HG2	2.11	0.50
25:UV:148:GLU:O	25:UV:151:SER:OG	2.20	0.50
28:CD:189:ASN:HB3	28:CD:193:MET:HE1	1.92	0.50
31:CH:118:ALA:C	31:CH:122:LYS:HZ3	2.19	0.50
31:CH:162:CYS:SG	31:CH:525:GLN:HB3	2.51	0.50
31:CH:296:TYR:HB3	31:CH:328:ILE:HD11	1.94	0.50
33:CJ:201:ARG:O	33:CJ:205:ILE:HG13	2.11	0.50
35:CL:126:ASN:HB3	35:CL:853:ARG:HE	1.76	0.50
35:CL:231:LYS:C	35:CL:232:PHE:HD2	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:1107:LYS:HZ2	65:D2:412:A:C5'	2.23	0.50
36:CM:45:LEU:HG	36:CM:49:GLU:HB2	1.94	0.50
38:JC:98:ASP:CG	38:JC:124:GLN:HE22	2.18	0.50
38:JC:223:ASN:HB3	38:JC:229:PHE:CE1	2.46	0.50
39:JF:130:ILE:HD11	39:JF:137:PHE:HD1	1.77	0.50
44:JM:131:ASP:OD2	44:JM:132:PRO:HD2	2.12	0.50
50:DF:30:PRO:O	50:DF:33:VAL:HB	2.12	0.50
52:DH:50:ASP:HB3	52:DH:56:LYS:HE2	1.94	0.50
54:DJ:110:GLN:OE1	54:DJ:126:ARG:HB2	2.11	0.50
65:D2:187:A:H2'	65:D2:188:A:C8	2.47	0.50
65:D2:306:G:C2	65:D2:307:C:C2	2.99	0.50
65:D2:415:U:H2'	65:D2:416:A:H8	1.77	0.50
66:D3:147:A:OP2	66:D3:166:C:N4	2.45	0.50
66:D3:312:A:N3	66:D3:314:C:H3'	2.26	0.50
66:D3:538:A:H5"	66:D3:543:C:H41	1.77	0.50
66:D3:592:A:C5	66:D3:593:U:N3	2.80	0.50
66:D3:949:C:H2'	66:D3:950:C:C6	2.46	0.50
66:D3:1469:A:C5	66:D3:1470:C:C5	3.00	0.50
5:UB:520:PRO:HG3	22:US:510:GLU:HG2	1.94	0.50
5:UB:527:GLN:NE2	22:US:503:TYR:HD2	2.09	0.50
7:UD:66:ARG:HE	7:UD:88:GLU:CD	2.20	0.50
7:UD:481:ILE:HB	7:UD:485:LYS:HB3	1.94	0.50
8:UE:497:PRO:O	8:UE:500:VAL:HG22	2.11	0.50
13:UJ:572:ARG:CZ	13:UJ:669:VAL:HB	2.41	0.50
15:UL:180:THR:HG23	15:UL:210:LEU:HD11	1.94	0.50
15:UL:588:ILE:O	15:UL:599:ILE:HD12	2.11	0.50
15:UL:618:ILE:C	15:UL:619:MET:HE2	2.37	0.50
18:UO:186:THR:HG22	18:UO:194:ARG:HB2	1.93	0.50
20:UQ:262:MET:SD	20:UQ:273:VAL:HG12	2.52	0.50
21:UR:514:LEU:HD23	21:UR:532:MET:HE3	1.93	0.50
22:US:228:HIS:HD2	22:US:288:HIS:HE1	1.58	0.50
22:US:349:LEU:HD23	22:US:355:ARG:NH2	2.26	0.50
23:UT:662:PHE:HE2	23:UT:688:VAL:HG21	1.76	0.50
23:UT:801:TYR:HA	23:UT:853:HIS:NE2	2.27	0.50
23:UT:1595:SER:C	23:UT:1597:ILE:H	2.18	0.50
23:UT:1919:ILE:HA	23:UT:1922:ILE:HG22	1.93	0.50
23:UT:2000:PHE:HB3	23:UT:2004:LYS:NZ	2.26	0.50
24:UU:523:ASP:OD1	24:UU:523:ASP:N	2.44	0.50
27:UZ:59:LEU:HD11	27:UZ:215:ASN:OD1	2.12	0.50
28:CD:230:ASN:N	28:CD:233:SER:OG	2.44	0.50
30:CG:66:HIS:CG	30:CG:67:LEU:N	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CH:174:GLU:HG3	31:CH:176:SER:H	1.77	0.50
36:CM:15:GLN:O	36:CM:20:ARG:NH1	2.45	0.50
38:JC:189:ASN:O	38:JC:193:GLY:CA	2.50	0.50
38:JC:327:GLY:O	38:JC:342:TYR:HA	2.11	0.50
39:JG:31:LEU:HD12	39:JG:40:ARG:NH2	2.27	0.50
45:JN:262:ILE:HD13	46:JO:165:LEU:HD11	1.92	0.50
47:JP:66:HIS:CE1	47:JP:93:LYS:HG3	2.47	0.50
47:JP:121:PRO:HA	47:JP:192:SER:CB	2.42	0.50
53:DI:31:ARG:HB2	53:DI:56:ARG:HH22	1.77	0.50
66:D3:332:U:H3	66:D3:334:G:H8	1.60	0.50
66:D3:1054:U:H3	66:D3:1065:A:H61	1.58	0.50
66:D3:1777:G:H2'	66:D3:1778:G:C8	2.47	0.50
3:JA:32:ARG:C	3:JA:34:ARG:H	2.19	0.50
3:JA:805:ILE:HB	3:JA:809:LYS:HZ3	1.77	0.50
4:UA:426:THR:OG1	4:UA:427:GLY:N	2.43	0.50
4:UA:580:PHE:HZ	4:UA:602:CYS:SG	2.34	0.50
5:UB:314:MET:HA	5:UB:512:ASP:HA	1.92	0.50
5:UB:571:ILE:HA	5:UB:574:THR:HG22	1.93	0.50
7:UD:43:PRO:HD2	7:UD:757:ARG:NH1	2.26	0.50
7:UD:375:VAL:HB	7:UD:757:ARG:HH21	1.76	0.50
8:UE:344:ASP:N	8:UE:348:LYS:O	2.28	0.50
8:UE:466:ARG:HD3	8:UE:504:TRP:CH2	2.47	0.50
13:UJ:114:THR:O	13:UJ:118:THR:HG22	2.12	0.50
13:UJ:170:SER:OG	13:UJ:171:GLU:N	2.45	0.50
13:UJ:1556:PHE:CZ	13:UJ:1600:PRO:HB2	2.47	0.50
15:UL:361:THR:HG22	15:UL:386:GLU:HB3	1.92	0.50
15:UL:867:GLU:OE2	64:Dc:39:THR:N	2.44	0.50
16:UM:585:ASN:ND2	16:UM:630:ASP:HA	2.27	0.50
18:UO:85:TYR:CD2	18:UO:128:HIS:HA	2.46	0.50
22:US:349:LEU:O	22:US:355:ARG:NH2	2.45	0.50
23:UT:448:VAL:HA	23:UT:451:VAL:HG23	1.93	0.50
23:UT:1846:PHE:CE2	26:UX:62:PRO:HD3	2.46	0.50
25:UV:781:ASP:HA	25:UV:851:LYS:O	2.11	0.50
27:UZ:243:PHE:HA	27:UZ:252:LEU:O	2.11	0.50
33:CJ:93:SER:HB3	33:CJ:142:LEU:O	2.12	0.50
35:CL:257:LEU:O	35:CL:261:GLN:HG2	2.11	0.50
37:CN:211:GLY:C	63:Db:80:ARG:HD2	2.37	0.50
38:JC:6:THR:HG23	38:JC:13:VAL:H	1.76	0.50
39:JF:54:LYS:NZ	39:JF:63:ASP:OD2	2.44	0.50
42:JJ:114:THR:HA	42:JJ:117:TYR:HE2	1.76	0.50
51:DG:70:PRO:HB3	51:DG:101:ILE:HB	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:DQ:58:ASP:HA	58:DQ:61:SER:HB3	1.92	0.50
61:DX:121:ARG:HD2	61:DX:122:PHE:CZ	2.47	0.50
66:D3:330:G:H2'	66:D3:331:A:C8	2.46	0.50
66:D3:1671:A:H3'	66:D3:1672:G:C8	2.45	0.50
1:CA:185:SER:OG	1:CA:216:ASN:HB2	2.12	0.50
2:DA:145:LYS:HB2	2:DA:149:GLN:HG3	1.93	0.50
3:JA:773:TRP:HA	3:JA:776:GLU:HB2	1.92	0.50
1:CB:221:ILE:HD13	29:CE:148:GLY:HA3	1.93	0.50
5:UB:537:LEU:HA	5:UB:540:ILE:HD12	1.92	0.50
6:UC:548:LYS:HA	61:DX:139:LYS:NZ	2.26	0.50
7:UD:389:ARG:CZ	7:UD:404:MET:HB3	2.42	0.50
8:UE:150:LYS:HB2	8:UE:166:ALA:HB3	1.94	0.50
8:UE:300:LEU:N	8:UE:319:TRP:HE1	2.10	0.50
8:UE:434:THR:OG1	8:UE:467:ASP:OD2	2.18	0.50
10:UG:527:ARG:HH12	65:D2:366:A:P	2.35	0.50
13:UJ:109:TRP:CH2	13:UJ:118:THR:HG21	2.46	0.50
13:UJ:585:ILE:HA	13:UJ:588:LEU:HD12	1.94	0.50
13:UJ:728:GLU:HB2	13:UJ:732:PHE:HD1	1.76	0.50
15:UL:359:SER:O	15:UL:361:THR:N	2.45	0.50
20:UQ:725:ASN:O	20:UQ:740:LYS:N	2.44	0.50
22:US:208:TYR:O	22:US:212:LEU:HG	2.11	0.50
22:US:353:LYS:C	22:US:354:TYR:HD1	2.20	0.50
23:UT:417:LEU:HD11	23:UT:451:VAL:HG11	1.94	0.50
23:UT:535:ASN:HB3	23:UT:537:LEU:HD23	1.94	0.50
23:UT:841:ILE:O	23:UT:844:VAL:HG12	2.12	0.50
23:UT:1733:LYS:HD3	23:UT:1748:ASN:HB2	1.93	0.50
24:UU:609:ILE:HD12	24:UU:625:VAL:HG21	1.93	0.50
24:UU:846:ASP:OD2	24:UU:847:LEU:N	2.44	0.50
25:UV:1100:VAL:HG22	25:UV:1234:PHE:CD1	2.47	0.50
34:CK:311:ILE:O	34:CK:315:GLU:HG3	2.12	0.50
35:CL:241:HIS:HB2	35:CL:851:TRP:HZ2	1.76	0.50
35:CL:247:ASP:OD2	35:CL:273:GLY:HA2	2.12	0.50
35:CL:560:PRO:HB2	36:CM:320:GLU:OE1	2.11	0.50
36:CM:189:SER:N	36:CM:248:GLN:O	2.43	0.50
42:JJ:105:ARG:HG3	42:JJ:163:THR:O	2.11	0.50
49:DE:124:GLY:HA2	49:DE:142:HIS:CE1	2.46	0.50
49:DE:209:HIS:CD2	49:DE:219:VAL:HG22	2.46	0.50
55:DL:55:ASP:HB3	55:DL:58:CYS:HB2	1.94	0.50
56:DN:20:ARG:HH12	66:D3:862:A:P	2.34	0.50
66:D3:314:C:H42	66:D3:354:C:H42	1.59	0.50
66:D3:491:C:H2'	66:D3:492:A:H8	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:528:U:H2'	66:D3:529:A:H8	1.77	0.50
67:D4:98:U:H2'	67:D4:99:U:C6	2.47	0.50
79:EN:123:VAL:HA	79:EN:315:HIS:HA	1.93	0.50
1:CA:195:TYR:CD1	1:CA:218:ILE:HG12	2.46	0.50
2:DA:209:ASN:OD1	2:DA:211:HIS:HE1	1.95	0.50
3:JA:202:ASP:OD1	3:JA:203:ASP:N	2.42	0.50
4:UA:259:ASN:OD1	4:UA:260:GLN:N	2.38	0.50
4:UA:414:TRP:CE3	4:UA:421:ASN:HB3	2.46	0.50
4:UA:586:SER:OG	4:UA:587:PHE:N	2.41	0.50
4:UA:785:PHE:O	4:UA:789:SER:HB2	2.12	0.50
7:UD:32:ILE:HA	11:UH:720:TYR:HB2	1.94	0.50
7:UD:744:VAL:HG22	7:UD:754:ILE:HG22	1.93	0.50
11:UH:295:TYR:HA	11:UH:302:LEU:HA	1.93	0.50
13:UJ:726:PRO:HB3	13:UJ:762:SER:HB2	1.94	0.50
15:UL:200:HIS:ND1	16:UM:664:GLU:OE2	2.44	0.50
16:UM:556:THR:OG1	16:UM:557:VAL:N	2.45	0.50
18:UO:82:ASP:CG	18:UO:83:VAL:H	2.20	0.50
18:UO:173:THR:HG21	18:UO:217:ASN:HA	1.94	0.50
20:UQ:573:CYS:SG	20:UQ:585:TRP:HB2	2.51	0.50
21:UR:216:TYR:CZ	24:UU:247:PRO:HD2	2.46	0.50
22:US:356:ALA:O	22:US:360:ARG:HD3	2.12	0.50
22:US:406:ILE:HD13	22:US:412:CYS:HB2	1.93	0.50
22:US:428:THR:HG22	22:US:431:GLN:HG2	1.93	0.50
22:US:503:TYR:O	22:US:507:LEU:HG	2.11	0.50
23:UT:75:GLN:HB2	31:CH:125:VAL:HG21	1.93	0.50
23:UT:76:THR:O	23:UT:80:ILE:HG13	2.12	0.50
23:UT:494:THR:OG1	23:UT:495:GLU:OE1	2.30	0.50
23:UT:2004:LYS:HA	23:UT:2007:VAL:HG12	1.93	0.50
24:UU:39:PHE:CD2	24:UU:313:SER:HB3	2.46	0.50
24:UU:218:LEU:O	24:UU:220:ILE:HG12	2.12	0.50
24:UU:328:LEU:HD21	29:CE:412:VAL:HG11	1.94	0.50
25:UV:206:LEU:HD11	25:UV:297:GLY:HA3	1.94	0.50
27:UZ:24:CYS:O	27:UZ:31:LYS:HG3	2.12	0.50
28:CD:249:GLN:HA	28:CD:252:ILE:HG22	1.94	0.50
29:CE:316:THR:O	29:CE:319:ILE:N	2.45	0.50
30:CF:64:LEU:HD23	30:CF:98:ILE:HD12	1.94	0.50
31:CH:69:GLN:HA	31:CH:72:GLU:OE2	2.11	0.50
36:CM:205:VAL:O	36:CM:209:ILE:HG23	2.12	0.50
39:JG:180:LEU:HD21	39:JG:237:ALA:HB1	1.94	0.50
50:DF:149:VAL:HG22	50:DF:156:ARG:H	1.76	0.50
55:DL:65:SER:HB3	66:D3:247:A:C2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DL:132:SER:OG	66:D3:326:G:OP2	2.29	0.50
65:D2:158:G:H2'	65:D2:159:A:H8	1.75	0.50
66:D3:1270:G:H2'	66:D3:1271:G:H8	1.77	0.50
66:D3:1450:U:H2'	66:D3:1451:C:C6	2.46	0.50
67:D4:167:C:H2'	67:D4:168:C:C6	2.47	0.50
2:DA:22:ASP:O	2:DA:25:THR:N	2.45	0.50
3:JA:71:LYS:NZ	66:D3:158:U:O3'	2.45	0.50
3:JA:591:GLU:OE2	3:JA:613:LEU:N	2.45	0.50
3:JA:748:ARG:HH12	3:JA:752:ASN:N	2.10	0.50
1:CB:88:ILE:HD11	1:CB:97:TYR:HB3	1.94	0.50
5:UB:534:PHE:N	5:UB:594:ASP:OD2	2.44	0.50
7:UD:76:ILE:CG1	7:UD:91:ILE:HB	2.42	0.50
7:UD:249:ARG:NE	7:UD:291:ASP:O	2.37	0.50
7:UD:326:ARG:HH11	7:UD:365:SER:HA	1.77	0.50
7:UD:347:LEU:HD21	7:UD:359:ASN:HB2	1.94	0.50
8:UE:8:SER:HG	8:UE:293:ASN:HD22	1.57	0.50
8:UE:484:LEU:O	8:UE:488:ILE:HG13	2.12	0.50
8:UE:504:TRP:HZ3	12:UI:512:LEU:HD21	1.76	0.50
9:UF:9:GLU:CD	17:UN:873:ALA:HB2	2.37	0.50
11:UH:675:LEU:HD12	12:UI:456:LEU:HD22	1.94	0.50
15:UL:147:VAL:HG12	15:UL:156:LEU:HB3	1.93	0.50
15:UL:171:CYS:SG	15:UL:172:GLN:N	2.85	0.50
15:UL:543:ASP:C	15:UL:560:LEU:HD12	2.37	0.50
16:UM:224:ASP:HB3	16:UM:234:LEU:HD11	1.93	0.50
18:UO:427:VAL:HG12	18:UO:462:TRP:CH2	2.46	0.50
20:UQ:473:LEU:HD23	20:UQ:532:TRP:CE2	2.47	0.50
20:UQ:778:ASP:OD1	20:UQ:779:ILE:N	2.45	0.50
24:UU:95:GLU:HA	24:UU:117:ASN:OD1	2.12	0.50
24:UU:176:TYR:HB3	24:UU:179:LYS:HB2	1.94	0.50
25:UV:124:VAL:HG11	25:UV:290:PHE:HD2	1.75	0.50
25:UV:527:TYR:HB2	25:UV:615:VAL:HB	1.94	0.50
25:UV:933:LEU:HB2	25:UV:1052:TYR:HB3	1.94	0.50
25:UV:1022:MET:O	25:UV:1026:ASN:ND2	2.45	0.50
27:UZ:97:PHE:HB3	27:UZ:100:ILE:HD11	1.93	0.50
29:CE:15:LEU:HD11	29:CE:42:PHE:HB3	1.92	0.50
29:CE:267:ALA:HA	29:CE:270:GLU:OE2	2.12	0.50
30:CF:9:PHE:HB3	30:CF:10:PRO:HD3	1.94	0.50
30:CG:95:ARG:CZ	31:CH:551:ARG:HB2	2.42	0.50
31:CH:474:TRP:HB2	31:CH:492:TRP:HZ3	1.76	0.50
35:CL:78:PRO:HD3	35:CL:122:ALA:HB3	1.91	0.50
38:JC:192:ASN:ND2	38:JC:257:LEU:HD21	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:JC:207:TRP:CE2	38:JC:214:ARG:HB2	2.47	0.50
39:JG:89:PRO:HG2	39:JG:134:PHE:CZ	2.40	0.50
47:JP:246:LEU:O	47:JP:255:THR:HG22	2.12	0.50
55:DL:116:ARG:HG3	55:DL:118:GLN:HE22	1.77	0.50
66:D3:37:U:C4	66:D3:38:C:C4	3.00	0.50
66:D3:887:A:H2'	66:D3:888:U:H6	1.76	0.50
67:D4:143:G:O2'	67:D4:144:G:OP1	2.24	0.50
67:D4:160:G:H2'	67:D4:161:G:C8	2.47	0.50
72:EE:168:VAL:O	72:EE:172:LYS:N	2.45	0.50
1:CA:85:LYS:HG2	44:JM:151:THR:HG22	1.94	0.49
3:JA:108:TYR:CE2	3:JA:126:ASP:HB2	2.47	0.49
3:JA:615:PRO:HA	3:JA:618:ILE:HG22	1.92	0.49
4:UA:215:VAL:HG11	4:UA:289:LEU:HD11	1.94	0.49
4:UA:597:ASN:HA	4:UA:680:ARG:HB2	1.94	0.49
5:UB:481:MET:CE	5:UB:484:ARG:HH21	2.25	0.49
7:UD:289:ASP:OD2	7:UD:294:TYR:HB2	2.11	0.49
9:UF:276:VAL:HG21	17:UN:338:LEU:HD21	1.94	0.49
10:UG:319:GLY:HA2	10:UG:334:ARG:HB3	1.93	0.49
10:UG:453:ASP:OD1	10:UG:453:ASP:N	2.44	0.49
12:UI:437:ILE:HG12	12:UI:452:LEU:HD11	1.94	0.49
14:UK:143:MET:HE2	19:UP:171:VAL:HG12	1.94	0.49
14:UK:143:MET:HE3	19:UP:178:VAL:HG12	1.95	0.49
16:UM:26:SER:HB2	16:UM:71:PRO:O	2.11	0.49
16:UM:174:VAL:O	16:UM:183:LEU:N	2.45	0.49
16:UM:663:VAL:HA	16:UM:666:GLU:OE2	2.12	0.49
16:UM:732:ASN:HB2	16:UM:735:GLN:CD	2.37	0.49
18:UO:312:ALA:O	18:UO:313:GLN:HG2	2.12	0.49
18:UO:368:GLY:HA3	21:UR:289:HIS:CD2	2.47	0.49
18:UO:418:LEU:HD12	18:UO:462:TRP:NE1	2.27	0.49
20:UQ:511:GLU:OE1	20:UQ:511:GLU:N	2.45	0.49
21:UR:241:ALA:HA	21:UR:282:ASN:ND2	2.27	0.49
23:UT:77:LEU:HD22	31:CH:67:ALA:CB	2.42	0.49
23:UT:582:LEU:O	23:UT:586:THR:HG23	2.12	0.49
23:UT:969:SER:O	23:UT:972:LEU:O	2.30	0.49
23:UT:1018:HIS:O	23:UT:1022:VAL:HG22	2.11	0.49
23:UT:1079:MET:HA	23:UT:1082:ILE:HG22	1.93	0.49
24:UU:120:HIS:NE2	24:UU:168:VAL:O	2.45	0.49
25:UV:139:PRO:HG2	25:UV:238:HIS:CE1	2.47	0.49
25:UV:178:TYR:HD1	25:UV:231:TYR:CZ	2.29	0.49
29:CE:111:ALA:C	29:CE:113:THR:H	2.20	0.49
30:CG:116:ALA:O	30:CG:120:LYS:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:364:VAL:HA	35:CL:372:TYR:O	2.12	0.49
35:CL:1104:GLY:O	35:CL:1107:LYS:HB3	2.12	0.49
36:CM:191:ILE:O	36:CM:223:VAL:HA	2.12	0.49
45:JN:277:SER:O	45:JN:281:LYS:HG3	2.11	0.49
46:JO:90:ASP:OD2	46:JO:93:ILE:N	2.44	0.49
47:JP:178:GLY:HA3	47:JP:182:PHE:HZ	1.77	0.49
47:JP:324:SER:OG	47:JP:326:ASP:O	2.30	0.49
53:DI:98:LYS:HG2	66:D3:329:G:O3'	2.12	0.49
54:DJ:2:PRO:HB3	66:D3:380:U:H4'	1.93	0.49
61:DX:51:GLY:HA2	61:DX:77:ILE:HG13	1.94	0.49
65:D2:20:C:H2'	65:D2:21:A:H8	1.75	0.49
65:D2:277:C:H5	65:D2:278:G:C4	2.30	0.49
66:D3:27:U:O4	66:D3:599:A:N6	2.42	0.49
67:D4:50:U:N3	67:D4:51:C:N3	2.60	0.49
70:EC:164:GLY:HA2	70:EC:184:THR:HA	1.93	0.49
74:EG:193:ALA:HA	74:EG:202:SER:HA	1.94	0.49
3:JA:86:ARG:HG2	3:JA:87:GLU:H	1.77	0.49
3:JA:517:VAL:HG11	3:JA:715:GLN:HG3	1.94	0.49
4:UA:334:SER:HB3	42:JJ:271:LYS:HB3	1.93	0.49
1:CB:268:VAL:HA	1:CB:316:VAL:O	2.13	0.49
5:UB:209:GLU:HA	66:D3:1206:U:O2'	2.12	0.49
7:UD:81:PRO:HB3	7:UD:85:TRP:CE3	2.47	0.49
7:UD:396:GLU:CD	7:UD:428:ILE:HG13	2.37	0.49
7:UD:427:ASN:OD1	19:UP:190:LEU:HD11	2.12	0.49
7:UD:536:VAL:HG22	7:UD:537:ASP:O	2.12	0.49
10:UG:115:HIS:CE1	10:UG:380:ASN:ND2	2.79	0.49
11:UH:564:ASN:ND2	11:UH:598:GLU:OE2	2.45	0.49
13:UJ:1656:SER:HB3	13:UJ:1694:HIS:NE2	2.26	0.49
14:UK:107:VAL:HG13	14:UK:211:LEU:HD12	1.94	0.49
14:UK:147:THR:HG22	14:UK:149:GLU:H	1.76	0.49
15:UL:299:ARG:O	15:UL:303:LEU:HG	2.12	0.49
16:UM:248:PHE:HB3	16:UM:256:ARG:NH2	2.27	0.49
16:UM:538:ASP:O	16:UM:550:THR:HA	2.12	0.49
23:UT:1544:ALA:O	23:UT:1548:ILE:HG12	2.13	0.49
24:UU:87:PHE:HD1	65:D2:308:A:C2	2.29	0.49
24:UU:144:ASP:HB3	24:UU:147:ASP:CG	2.37	0.49
24:UU:321:GLU:O	24:UU:343:LEU:HB3	2.11	0.49
24:UU:860:GLU:OE1	24:UU:860:GLU:N	2.24	0.49
27:UZ:226:LYS:HA	27:UZ:229:ARG:NH2	2.27	0.49
31:CH:156:ASN:H	31:CH:561:ASN:CG	2.20	0.49
35:CL:102:GLN:O	35:CL:359:SER:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:211:ILE:HG13	35:CL:212:ASN:H	1.77	0.49
36:CM:285:LYS:HA	36:CM:316:GLU:OE2	2.12	0.49
39:JG:43:VAL:O	39:JG:112:VAL:HA	2.12	0.49
39:JG:181:SER:HB2	39:JG:214:ASP:OD2	2.12	0.49
47:JP:405:ARG:HB3	47:JP:405:ARG:CZ	2.40	0.49
49:DE:188:ASN:HB3	49:DE:191:ARG:CZ	2.42	0.49
54:DJ:49:LEU:HD22	54:DJ:101:VAL:HG22	1.93	0.49
56:DN:18:TYR:CE2	60:DW:56:HIS:CD2	2.99	0.49
58:DQ:58:ASP:OD1	58:DQ:59:LYS:N	2.45	0.49
67:D4:11:U:H2'	67:D4:12:U:C6	2.47	0.49
79:EN:399:LYS:O	79:EN:403:LYS:N	2.38	0.49
3:JA:16:ASN:HA	3:JA:19:GLN:HG2	1.94	0.49
3:JA:76:LYS:HA	3:JA:79:LYS:NZ	2.27	0.49
3:JA:789:LEU:HA	3:JA:793:PHE:CE1	2.47	0.49
4:UA:360:VAL:HG21	4:UA:374:ILE:HD11	1.95	0.49
7:UD:199:ASP:CA	7:UD:215:ALA:O	2.59	0.49
7:UD:310:ASN:OD1	7:UD:311:THR:N	2.44	0.49
7:UD:614:TRP:O	7:UD:618:ASN:HB2	2.11	0.49
9:UF:317:LEU:HD23	9:UF:321:LYS:NZ	2.28	0.49
10:UG:23:ARG:HH12	17:UN:863:MET:HE1	1.76	0.49
10:UG:533:ILE:HG12	10:UG:539:SER:HA	1.94	0.49
11:UH:599:MET:HE3	11:UH:644:SER:HB3	1.93	0.49
13:UJ:248:SER:O	13:UJ:254:GLN:NE2	2.45	0.49
13:UJ:345:ASP:HA	13:UJ:348:ILE:HD12	1.94	0.49
13:UJ:561:PHE:CE2	13:UJ:619:SER:HB2	2.47	0.49
13:UJ:1600:PRO:O	13:UJ:1604:LEU:HG	2.12	0.49
13:UJ:1644:PHE:CD2	13:UJ:1683:HIS:HD2	2.30	0.49
16:UM:266:ILE:HB	16:UM:283:LYS:HZ1	1.76	0.49
16:UM:490:HIS:HE1	16:UM:514:THR:HG23	1.78	0.49
17:UN:864:PRO:HG3	47:JP:36:GLU:OE1	2.12	0.49
20:UQ:435:ASP:HB3	20:UQ:701:VAL:O	2.11	0.49
21:UR:321:MET:HE2	21:UR:355:PHE:CE2	2.48	0.49
22:US:260:ASN:O	22:US:263:SER:OG	2.29	0.49
23:UT:78:PRO:HB3	31:CH:71:LEU:HD21	1.94	0.49
23:UT:1199:LEU:O	23:UT:1203:VAL:HG23	2.12	0.49
23:UT:1397:ILE:O	23:UT:1400:PRO:HD2	2.12	0.49
24:UU:90:VAL:HG23	24:UU:101:TYR:HB2	1.93	0.49
24:UU:865:ILE:HD13	24:UU:909:LEU:HD22	1.94	0.49
25:UV:106:GLN:HB3	25:UV:507:PHE:CE2	2.47	0.49
25:UV:824:PHE:O	25:UV:840:LEU:HD12	2.13	0.49
26:UX:90:LEU:HD22	26:UX:94:CYS:SG	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:UX:152:ILE:HB	26:UX:171:PRO:HG2	1.94	0.49
27:UZ:93:THR:HA	27:UZ:96:LEU:HB3	1.94	0.49
29:CE:420:GLU:OE1	29:CE:420:GLU:N	2.45	0.49
30:CF:28:ALA:HB2	30:CF:33:LEU:HD23	1.94	0.49
30:CF:39:GLU:OE1	30:CF:42:LYS:NZ	2.40	0.49
31:CH:433:ILE:HD11	31:CH:506:ARG:HG3	1.93	0.49
33:CJ:92:THR:CG2	33:CJ:96:PRO:HB3	2.41	0.49
35:CL:198:VAL:HG12	35:CL:199:TYR:N	2.27	0.49
40:JH:260:TYR:HA	40:JH:306:ALA:HB2	1.93	0.49
42:JJ:205:ILE:O	42:JJ:212:THR:OG1	2.29	0.49
46:JO:80:MET:SD	46:JO:101:ILE:HB	2.52	0.49
47:JP:16:VAL:HG23	47:JP:17:LYS:H	1.77	0.49
47:JP:303:ASP:O	47:JP:330:ARG:NH2	2.45	0.49
49:DE:126:VAL:HG13	49:DE:139:VAL:CG2	2.42	0.49
53:DI:23:LYS:H	53:DI:25:ARG:HH21	1.61	0.49
56:DN:126:ALA:O	56:DN:130:ARG:HG3	2.13	0.49
58:DQ:69:VAL:HG11	58:DQ:81:ILE:HG12	1.94	0.49
66:D3:282:C:H2'	66:D3:283:U:H6	1.78	0.49
66:D3:828:U:O4	66:D3:829:A:N6	2.46	0.49
79:EN:93:VAL:N	79:EN:113:VAL:O	2.42	0.49
1:CA:221:ILE:HB	28:CD:162:LYS:HE2	1.93	0.49
2:DA:112:SER:O	46:JO:44:LEU:HD13	2.13	0.49
2:DA:189:ILE:CB	2:DA:190:PRO:HD3	2.36	0.49
4:UA:126:ASP:HB3	4:UA:129:LYS:NZ	2.28	0.49
4:UA:162:LEU:CB	4:UA:172:ILE:HG22	2.42	0.49
3:JB:202:ASP:N	3:JB:206:ASN:O	2.41	0.49
5:UB:552:GLN:HA	5:UB:555:ARG:NE	2.28	0.49
7:UD:372:MET:HE1	7:UD:631:GLU:OE1	2.12	0.49
7:UD:511:VAL:HG23	7:UD:558:ARG:HB3	1.94	0.49
13:UJ:88:LYS:O	13:UJ:92:LYS:HG3	2.12	0.49
13:UJ:1535:TYR:O	13:UJ:1539:MET:HG2	2.12	0.49
14:UK:184:ILE:O	14:UK:184:ILE:HG13	2.11	0.49
14:UK:190:LEU:O	14:UK:194:LYS:HG2	2.12	0.49
18:UO:11:SER:O	18:UO:12:LYS:HD3	2.11	0.49
18:UO:51:HIS:C	18:UO:53:HIS:H	2.19	0.49
18:UO:279:GLY:C	18:UO:297:LYS:HA	2.38	0.49
18:UO:322:LEU:HD12	18:UO:326:LEU:HB2	1.94	0.49
19:UP:204:ARG:NH2	65:D2:170:U:H4'	2.23	0.49
20:UQ:265:ASP:HB2	20:UQ:270:GLN:O	2.12	0.49
20:UQ:693:ASP:OD1	20:UQ:693:ASP:N	2.43	0.49
21:UR:458:ILE:O	21:UR:459:GLN:NE2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:US:251:SER:OG	65:D2:111:C:OP1	2.30	0.49
23:UT:47:PHE:CD1	23:UT:113:PHE:HB2	2.47	0.49
23:UT:54:TRP:HA	23:UT:57:ILE:CG2	2.40	0.49
23:UT:57:ILE:HA	62:DY:21:LYS:HZ3	1.78	0.49
23:UT:1083:TYR:CE1	23:UT:1121:PHE:HB3	2.47	0.49
23:UT:1211:ILE:HD12	23:UT:1216:VAL:CG2	2.41	0.49
24:UU:631:ASN:HB2	24:UU:644:THR:CG2	2.42	0.49
25:UV:145:SER:OG	25:UV:148:GLU:HB2	2.11	0.49
28:CD:4:ILE:HG23	28:CD:20:VAL:HG11	1.95	0.49
28:CD:237:LEU:O	28:CD:240:LEU:C	2.56	0.49
29:CE:159:VAL:O	29:CE:162:MET:HG3	2.12	0.49
31:CH:69:GLN:HA	31:CH:72:GLU:CD	2.36	0.49
31:CH:140:LEU:HD12	31:CH:568:ILE:CG2	2.42	0.49
31:CH:314:GLN:N	62:DY:2:SER:O	2.24	0.49
32:CI:5:LEU:HD22	32:CI:13:LEU:HD12	1.94	0.49
32:CI:59:ASN:ND2	65:D2:335:G:H4'	2.27	0.49
32:CI:94:ILE:HG12	33:CJ:58:TYR:HB3	1.93	0.49
35:CL:145:ASN:HA	35:CL:177:PHE:CE1	2.43	0.49
36:CM:96:VAL:HG21	36:CM:122:THR:HG22	1.94	0.49
45:JN:313:ARG:O	45:JN:319:LEU:HD12	2.12	0.49
47:JP:453:TYR:HE2	66:D3:-2:A:C6	2.31	0.49
51:DG:92:ARG:HH12	66:D3:406:U:H4'	1.77	0.49
54:DJ:11:THR:OG1	66:D3:472:U:OP1	2.28	0.49
55:DL:131:ILE:O	66:D3:336:G:O2'	2.19	0.49
56:DN:96:VAL:HG21	56:DN:150:VAL:HG21	1.93	0.49
65:D2:2:U:H2'	65:D2:3:G:H8	1.75	0.49
65:D2:306:G:C6	65:D2:307:C:C4	3.01	0.49
66:D3:882:U:H2'	66:D3:883:C:H6	1.77	0.49
66:D3:1575:G:H2'	66:D3:1576:A:C8	2.46	0.49
66:D3:1786:G:H2'	66:D3:1787:C:C6	2.47	0.49
79:EN:398:VAL:O	79:EN:402:TRP:N	2.34	0.49
3:JA:794:HIS:HB3	3:JA:795:LYS:HD2	1.93	0.49
4:UA:315:GLU:O	4:UA:331:GLU:HG2	2.11	0.49
1:CB:107:VAL:HG21	1:CB:141:TYR:HB3	1.93	0.49
1:CB:195:TYR:HA	1:CB:218:ILE:HG23	1.93	0.49
6:UC:433:ARG:O	6:UC:435:LYS:HG3	2.13	0.49
7:UD:270:ALA:HB3	21:UR:446:ARG:HH22	1.78	0.49
7:UD:768:ALA:HA	19:UP:213:LYS:NZ	2.28	0.49
8:UE:523:LEU:HB2	8:UE:527:HIS:NE2	2.27	0.49
10:UG:79:GLU:OE2	65:D2:313:A:N6	2.45	0.49
10:UG:316:PRO:O	10:UG:317:THR:OG1	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:390:LEU:O	13:UJ:394:LEU:HB3	2.11	0.49
13:UJ:760:PHE:CD2	13:UJ:795:LEU:HD22	2.47	0.49
13:UJ:1443:LEU:O	13:UJ:1446:GLU:HG3	2.12	0.49
16:UM:753:HIS:O	16:UM:757:GLN:HG2	2.11	0.49
18:UO:391:ASN:ND2	18:UO:399:GLU:HG3	2.26	0.49
20:UQ:105:HIS:CE1	20:UQ:122:LYS:HB3	2.47	0.49
20:UQ:715:GLU:CD	20:UQ:716:ARG:HD2	2.38	0.49
21:UR:317:ARG:NE	21:UR:356:GLU:OE1	2.40	0.49
21:UR:386:ILE:HB	21:UR:396:MET:O	2.12	0.49
23:UT:228:LEU:O	23:UT:232:LEU:HG	2.12	0.49
23:UT:498:ILE:HA	23:UT:501:LEU:HD12	1.94	0.49
23:UT:841:ILE:HG13	23:UT:844:VAL:HB	1.95	0.49
23:UT:1584:ASN:HB2	23:UT:1587:LYS:NZ	2.26	0.49
23:UT:1696:TYR:HA	23:UT:1699:LYS:NZ	2.28	0.49
25:UV:344:ASN:OD1	25:UV:347:LYS:HE3	2.12	0.49
25:UV:801:LYS:HD3	37:CN:184:ILE:HD13	1.94	0.49
28:CD:326:SER:OG	28:CD:388:ARG:HA	2.13	0.49
34:CK:315:GLU:O	34:CK:319:VAL:HG13	2.13	0.49
34:CK:358:THR:HG22	34:CK:361:VAL:HG23	1.94	0.49
35:CL:86:ILE:HD11	35:CL:117:PHE:HD2	1.77	0.49
35:CL:125:LEU:O	35:CL:129:ILE:HG13	2.13	0.49
35:CL:833:ARG:NH1	61:DX:139:LYS:O	2.45	0.49
36:CM:209:ILE:HB	36:CM:225:ILE:HD11	1.95	0.49
37:CN:37:MET:SD	37:CN:59:PRO:HD3	2.52	0.49
38:JC:293:ASP:C	38:JC:295:ARG:H	2.21	0.49
47:JP:146:LYS:HB3	47:JP:148:TRP:HE1	1.76	0.49
49:DE:32:SER:N	49:DE:81:THR:O	2.30	0.49
51:DG:137:ARG:HD2	51:DG:177:ARG:HD3	1.95	0.49
51:DG:199:GLN:O	51:DG:203:GLU:HG2	2.13	0.49
53:DI:65:PHE:HA	53:DI:181:GLY:O	2.12	0.49
65:D2:242:C:H2'	65:D2:243:A:C8	2.28	0.49
65:D2:349:G:C2	65:D2:376:U:O2	2.65	0.49
66:D3:108:A:H2'	66:D3:109:G:H8	1.78	0.49
66:D3:252:U:H2'	66:D3:253:A:H8	1.77	0.49
66:D3:353:A:OP2	66:D3:354:C:N4	2.42	0.49
66:D3:477:A:C2	66:D3:512:A:N1	2.80	0.49
66:D3:940:A:H2'	66:D3:941:A:H8	1.77	0.49
67:D4:91:C:H5"	67:D4:92:A:OP2	2.11	0.49
73:EF:9:SER:O	73:EF:13:ASP:N	2.45	0.49
79:EN:1050:LEU:O	79:EN:1054:MET:N	2.45	0.49
1:CA:302:GLU:HG2	1:CA:317:VAL:HB	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DA:99:ASN:OD1	2:DA:100:PHE:N	2.46	0.49
3:JA:632:GLY:HA2	3:JA:720:LEU:HB2	1.94	0.49
4:UA:386:HIS:CE1	4:UA:412:ARG:HG3	2.47	0.49
4:UA:518:VAL:HB	4:UA:532:VAL:CG2	2.41	0.49
5:UB:547:VAL:O	5:UB:550:VAL:HG22	2.12	0.49
5:UB:678:PHE:HD2	5:UB:680:LYS:HE3	1.76	0.49
11:UH:671:ARG:O	11:UH:675:LEU:HD23	2.13	0.49
13:UJ:98:ILE:HD13	13:UJ:131:ASN:ND2	2.28	0.49
15:UL:438:PHE:HE1	15:UL:443:LEU:HA	1.77	0.49
16:UM:406:ALA:HB2	16:UM:440:VAL:HG13	1.94	0.49
16:UM:491:GLU:OE2	16:UM:492:LYS:HG3	2.13	0.49
16:UM:572:GLU:CG	16:UM:573:GLY:H	2.24	0.49
17:UN:881:PRO:HG2	17:UN:884:MET:HG2	1.94	0.49
17:UN:884:MET:HE2	65:D2:486:U:C4	2.47	0.49
23:UT:27:LYS:HZ3	23:UT:29:GLU:HB2	1.76	0.49
23:UT:1644:ARG:NH2	23:UT:1645:SER:HA	2.27	0.49
23:UT:1693:THR:O	23:UT:1697:ILE:HG12	2.13	0.49
24:UU:274:ILE:HG12	24:UU:286:VAL:HG23	1.94	0.49
25:UV:178:TYR:CE1	25:UV:235:LEU:HD21	2.47	0.49
25:UV:218:ASP:O	25:UV:224:CYS:N	2.45	0.49
25:UV:1160:SER:C	25:UV:1187:LYS:HZ2	2.21	0.49
29:CE:17:ALA:HA	29:CE:42:PHE:CE2	2.48	0.49
29:CE:84:LYS:HB2	29:CE:106:ASN:CG	2.37	0.49
30:CG:63:ILE:HG23	30:CG:64:LEU:N	2.27	0.49
31:CH:295:LEU:HD12	31:CH:296:TYR:H	1.78	0.49
33:CJ:279:ARG:HH22	35:CL:975:GLU:CD	2.19	0.49
35:CL:154:GLU:OE1	35:CL:912:ARG:HD2	2.12	0.49
35:CL:798:MET:N	35:CL:798:MET:SD	2.84	0.49
35:CL:969:VAL:HG23	66:D3:556:A:O4'	2.12	0.49
36:CM:306:GLU:HA	36:CM:356:GLY:O	2.12	0.49
38:JC:189:ASN:ND2	38:JC:240:GLY:O	2.46	0.49
39:JF:137:PHE:O	39:JF:141:MET:HG2	2.13	0.49
42:JJ:182:ILE:HA	42:JJ:233:ILE:O	2.13	0.49
46:JO:259:LYS:HA	46:JO:262:LEU:HD12	1.93	0.49
55:DL:17:PRO:O	55:DL:19:ILE:HD12	2.12	0.49
61:DX:60:GLU:OE1	61:DX:60:GLU:N	2.43	0.49
64:Dc:10:ALA:HB1	64:Dc:30:VAL:HB	1.93	0.49
65:D2:355:C:H2'	65:D2:356:C:C6	2.47	0.49
66:D3:951:A:H2'	66:D3:952:A:C8	2.46	0.49
66:D3:1125:A:H2'	66:D3:1126:G:C4	2.48	0.49
66:D3:1130:G:N2	66:D3:1138:A:H62	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:1213:G:O6	66:D3:1451:C:N4	2.45	0.49
66:D3:1643:U:H2'	66:D3:1644:C:H6	1.77	0.49
67:D4:57:A:N6	67:D4:58:A:N1	2.60	0.49
76:EI:176:LEU:HA	76:EI:182:ALA:HA	1.94	0.49
79:EN:205:SER:O	79:EN:209:TYR:N	2.33	0.49
79:EN:793:SER:O	79:EN:797:VAL:N	2.43	0.49
1:CA:176:ALA:O	1:CA:203:PRO:HB3	2.12	0.49
3:JA:60:LYS:HD2	3:JA:61:LYS:HB2	1.95	0.49
3:JA:87:GLU:HG3	3:JA:88:VAL:H	1.78	0.49
3:JA:509:HIS:CG	3:JA:510:PRO:HD2	2.47	0.49
4:UA:432:GLN:O	4:UA:449:SER:HB2	2.13	0.49
5:UB:618:THR:HB	5:UB:622:MET:HE1	1.95	0.49
5:UB:784:ILE:O	5:UB:788:ILE:HD12	2.13	0.49
6:UC:554:ARG:NE	66:D3:546:U:OP2	2.39	0.49
7:UD:63:SER:OG	7:UD:687:PHE:O	2.30	0.49
7:UD:191:LEU:N	7:UD:204:GLY:O	2.29	0.49
7:UD:435:PRO:HD3	7:UD:480:PHE:CZ	2.48	0.49
7:UD:638:SER:HB3	7:UD:646:LEU:HD13	1.95	0.49
8:UE:473:LYS:HE3	8:UE:476:LEU:HD23	1.94	0.49
11:UH:57:ILE:O	11:UH:70:PRO:HA	2.12	0.49
13:UJ:1572:LEU:HD12	13:UJ:1576:PHE:HE2	1.77	0.49
13:UJ:1593:TYR:O	13:UJ:1597:LEU:HG	2.13	0.49
15:UL:92:ASP:OD1	15:UL:108:LEU:HB2	2.13	0.49
15:UL:656:HIS:NE2	15:UL:660:VAL:HG22	2.28	0.49
15:UL:760:ILE:O	15:UL:763:ILE:N	2.44	0.49
16:UM:463:ILE:HG23	16:UM:489:ALA:HB2	1.93	0.49
18:UO:42:VAL:HG23	18:UO:58:THR:O	2.12	0.49
18:UO:85:TYR:HD2	18:UO:128:HIS:HA	1.77	0.49
20:UQ:292:LEU:C	20:UQ:293:LEU:HD22	2.37	0.49
22:US:227:LYS:NZ	22:US:235:ASP:O	2.46	0.49
23:UT:858:LEU:HD11	23:UT:928:ILE:HD13	1.93	0.49
23:UT:1034:TYR:OH	23:UT:1090:ARG:NH2	2.46	0.49
23:UT:1278:ARG:HA	23:UT:1315:ARG:HE	1.77	0.49
23:UT:1725:ILE:HG23	23:UT:1726:PHE:CD1	2.48	0.49
23:UT:1966:PHE:CD1	23:UT:1970:THR:HG21	2.48	0.49
24:UU:228:GLY:HA3	24:UU:246:ILE:C	2.14	0.49
24:UU:539:LYS:HG3	24:UU:539:LYS:O	2.13	0.49
24:UU:606:ASP:O	24:UU:607:SER:OG	2.26	0.49
24:UU:613:ASP:OD1	24:UU:615:PRO:HD2	2.12	0.49
24:UU:630:THR:HG23	24:UU:644:THR:HG23	1.94	0.49
25:UV:304:GLU:OE1	25:UV:306:LYS:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:UZ:11:GLY:HA2	27:UZ:14:GLU:OE2	2.12	0.49
29:CE:113:THR:OG1	29:CE:116:ILE:HB	2.13	0.49
34:CK:466:GLU:OE2	34:CK:468:ARG:NH2	2.46	0.49
35:CL:126:ASN:HB3	35:CL:853:ARG:NE	2.28	0.49
35:CL:248:ARG:HB3	35:CL:272:TYR:CD1	2.48	0.49
38:JC:100:GLU:CD	53:DI:35:ASN:HD21	2.20	0.49
38:JC:124:GLN:HG2	38:JC:134:THR:HG23	1.95	0.49
39:JF:44:VAL:HA	39:JF:113:TYR:O	2.12	0.49
42:JJ:148:ASP:OD2	42:JJ:151:ALA:N	2.45	0.49
46:JO:165:LEU:HB3	46:JO:172:SER:OG	2.13	0.49
49:DE:98:ASN:HB2	49:DE:114:ILE:O	2.12	0.49
54:DJ:133:HIS:NE2	66:D3:512:A:O2'	2.44	0.49
58:DQ:37:THR:C	58:DQ:38:LEU:HD22	2.37	0.49
66:D3:0:U:H1'	66:D3:1:U:OP2	2.12	0.49
66:D3:230:C:H2'	66:D3:231:U:H4'	1.93	0.49
66:D3:296:U:H2'	66:D3:297:U:C6	2.48	0.49
66:D3:1708:U:H2'	66:D3:1709:C:C2	2.47	0.49
67:D4:44:U:H2'	67:D4:45:U:C6	2.47	0.49
72:EE:138:ILE:O	72:EE:158:LEU:N	2.36	0.49
77:EJ:270:THR:N	77:EJ:274:MET:O	2.45	0.49
1:CA:306:LEU:HD11	1:CA:313:HIS:CB	2.42	0.49
3:JA:912:MET:HA	3:JA:915:LYS:HD2	1.94	0.49
4:UA:114:ALA:CB	4:UA:152:LEU:HD11	2.42	0.49
4:UA:395:PHE:HE2	4:UA:402:MET:HE2	1.77	0.49
4:UA:475:PRO:O	4:UA:492:SER:HB2	2.13	0.49
4:UA:531:ALA:HB2	4:UA:585:TYR:CZ	2.48	0.49
7:UD:426:GLN:HE21	19:UP:190:LEU:HD12	1.78	0.49
10:UG:546:ILE:HG12	25:UV:808:LEU:HD22	1.94	0.49
11:UH:595:ILE:O	11:UH:599:MET:HG2	2.13	0.49
13:UJ:22:ARG:NH1	47:JP:15:PRO:HG2	2.28	0.49
14:UK:32:LYS:HA	14:UK:35:VAL:HG12	1.94	0.49
14:UK:187:LYS:HD2	14:UK:188:GLU:HB3	1.95	0.49
15:UL:876:LEU:HA	15:UL:879:GLN:HG2	1.95	0.49
16:UM:583:PHE:HA	16:UM:590:LEU:HD23	1.95	0.49
17:UN:292:ARG:HG2	47:JP:292:ARG:HG3	1.94	0.49
18:UO:16:LEU:HG	18:UO:17:PRO:HD2	1.95	0.49
18:UO:90:ARG:HH21	18:UO:137:ASN:HB3	1.77	0.49
18:UO:499:LYS:O	18:UO:503:ARG:HG2	2.13	0.49
20:UQ:155:THR:O	20:UQ:171:TYR:HA	2.13	0.49
20:UQ:200:ASN:ND2	20:UQ:262:MET:O	2.46	0.49
20:UQ:378:ASP:HB2	20:UQ:380:THR:HG22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:UR:490:PHE:CE2	30:CF:89:ARG:HG3	2.48	0.49
23:UT:100:GLU:OE1	23:UT:100:GLU:N	2.29	0.49
23:UT:243:THR:HB	23:UT:246:THR:O	2.13	0.49
23:UT:260:HIS:O	23:UT:263:LEU:HG	2.13	0.49
23:UT:593:ASP:HB2	23:UT:596:ILE:HG22	1.94	0.49
23:UT:668:GLY:O	23:UT:672:VAL:HG23	2.12	0.49
23:UT:1069:VAL:O	23:UT:1072:THR:HG23	2.13	0.49
23:UT:1477:LYS:NZ	23:UT:1479:ASN:HB3	2.28	0.49
23:UT:1543:GLN:O	23:UT:1547:LEU:HD23	2.13	0.49
27:UZ:17:LEU:HD23	27:UZ:20:LEU:HD21	1.95	0.49
28:CD:17:VAL:HG12	28:CD:52:SER:HB2	1.94	0.49
35:CL:1123:LYS:HZ2	66:D3:487:G:P	2.35	0.49
36:CM:175:ALA:HA	36:CM:361:ASN:HB2	1.94	0.49
37:CN:91:ASP:OD2	37:CN:96:HIS:N	2.36	0.49
38:JC:108:SER:OG	38:JC:109:ASP:N	2.46	0.49
39:JF:156:GLU:OE1	39:JF:156:GLU:N	2.43	0.49
39:JF:243:HIS:HB2	39:JG:243:HIS:ND1	2.28	0.49
44:JM:135:HIS:CE1	66:D3:487:G:N1	2.81	0.49
46:JO:182:GLU:HG2	46:JO:203:LEU:HD11	1.95	0.49
47:JP:50:LEU:HD23	47:JP:53:MET:SD	2.53	0.49
47:JP:276:ASN:OD1	66:D3:-7:A:N6	2.44	0.49
49:DE:147:ILE:HD13	49:DE:169:ILE:HD11	1.95	0.49
53:DI:7:SER:OG	53:DI:10:LYS:HD3	2.13	0.49
58:DQ:51:PRO:O	58:DQ:55:VAL:HG22	2.13	0.49
58:DQ:98:ASP:OD1	58:DQ:101:SER:OG	2.26	0.49
63:Db:47:PHE:CE2	63:Db:49:HIS:HB2	2.47	0.49
65:D2:413:C:H2'	65:D2:414:G:H8	1.77	0.49
65:D2:428:A:H2'	65:D2:429:A:C8	2.47	0.49
66:D3:254:A:H2'	66:D3:255:U:C6	2.48	0.49
66:D3:428:A:O2'	66:D3:439:U:O2'	2.27	0.49
66:D3:538:A:O4'	66:D3:543:C:N4	2.46	0.49
66:D3:555:A:O3'	66:D3:574:G:N2	2.45	0.49
66:D3:752:A:H2'	66:D3:753:A:H8	1.78	0.49
66:D3:862:A:C2	66:D3:963:A:C4	3.01	0.49
66:D3:1138:A:H2'	66:D3:1139:A:O4'	2.13	0.49
71:ED:377:SER:O	71:ED:381:SER:N	2.45	0.49
78:EK:778:ILE:HA	78:EK:789:SER:CB	2.43	0.49
3:JA:70:ARG:NH2	66:D3:415:C:OP1	2.44	0.49
3:JA:520:ARG:HH12	3:JA:562:HIS:HB2	1.78	0.49
3:JA:541:TYR:CE1	3:JA:637:ARG:HG2	2.48	0.49
1:CB:264:GLN:HA	1:CB:320:TYR:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:UD:268:GLN:O	7:UD:269:PHE:HB2	2.13	0.49
9:UF:300:MET:HA	9:UF:303:GLU:HG3	1.95	0.49
10:UG:63:THR:HG21	47:JP:28:LEU:HD23	1.94	0.49
15:UL:159:LEU:HD13	15:UL:189:TRP:CD2	2.48	0.49
15:UL:177:LEU:HD22	15:UL:189:TRP:HE3	1.78	0.49
15:UL:183:ASP:HB2	15:UL:185:MET:HE1	1.94	0.49
15:UL:808:THR:O	15:UL:812:ILE:HG12	2.13	0.49
16:UM:340:ILE:HA	16:UM:357:THR:HA	1.95	0.49
16:UM:756:ALA:O	16:UM:759:THR:HG22	2.12	0.49
19:UP:200:ARG:HG3	19:UP:204:ARG:HD3	1.94	0.49
20:UQ:535:ASN:N	20:UQ:538:GLU:OE2	2.45	0.49
21:UR:295:ILE:HD11	21:UR:298:CYS:CB	2.34	0.49
21:UR:324:TRP:HE1	21:UR:337:ALA:HB1	1.78	0.49
21:UR:414:ILE:HD11	21:UR:420:ARG:HD2	1.95	0.49
21:UR:436:ASP:O	21:UR:437:LEU:HD23	2.13	0.49
23:UT:508:PHE:O	23:UT:548:TYR:OH	2.21	0.49
23:UT:1284:LEU:HD13	23:UT:1287:LEU:HD12	1.94	0.49
23:UT:1592:PRO:HA	23:UT:1595:SER:HB2	1.95	0.49
23:UT:1688:HIS:CE1	23:UT:1745:ILE:HG23	2.48	0.49
24:UU:66:LEU:HD13	24:UU:346:ARG:HG2	1.94	0.49
24:UU:132:THR:OG1	24:UU:133:ASP:N	2.45	0.49
24:UU:586:ASN:OD1	24:UU:587:ARG:N	2.41	0.49
25:UV:699:GLU:O	25:UV:703:LYS:HE2	2.11	0.49
25:UV:947:PRO:HD2	25:UV:948:TYR:CD2	2.48	0.49
25:UV:1046:ASP:HB2	25:UV:1051:LEU:HD13	1.94	0.49
31:CH:195:GLN:HE21	31:CH:196:LEU:C	2.21	0.49
31:CH:364:GLU:HG2	31:CH:367:LYS:HB3	1.94	0.49
31:CH:425:TRP:CZ2	31:CH:432:PRO:HG3	2.48	0.49
35:CL:921:GLU:OE2	36:CM:366:ILE:N	2.46	0.49
37:CN:225:SER:HB2	66:D3:1059:U:O2	2.13	0.49
39:JG:209:MET:HE1	39:JG:212:GLY:HA3	1.94	0.49
45:JN:280:LYS:HE3	65:D2:382:U:H5	1.77	0.49
46:JO:218:GLU:O	66:D3:904:G:N1	2.33	0.49
47:JP:389:ARG:NH1	67:D4:38:U:OP1	2.45	0.49
49:DE:117:GLU:OE1	49:DE:117:GLU:N	2.43	0.49
54:DJ:30:LEU:HD12	54:DJ:105:LEU:HD13	1.95	0.49
54:DJ:48:GLN:O	54:DJ:52:ILE:HG12	2.13	0.49
58:DQ:97:VAL:CG1	58:DQ:98:ASP:H	2.24	0.49
61:DX:74:VAL:HG21	61:DX:104:LEU:HD11	1.95	0.49
65:D2:198:A:H3'	65:D2:199:A:C8	2.48	0.49
65:D2:255:U:O2'	65:D2:256:U:OP1	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:30:G:N2	66:D3:31:C:C2	2.81	0.49
66:D3:1616:G:C6	66:D3:1617:U:N3	2.81	0.49
66:D3:1753:A:H2'	66:D3:1754:A:H8	1.78	0.49
3:JA:24:SER:OG	3:JA:25:ILE:N	2.45	0.49
3:JA:760:CYS:SG	3:JA:762:MET:HB2	2.52	0.49
3:JA:798:ALA:O	3:JA:802:LEU:HG	2.12	0.49
4:UA:852:THR:HB	24:UU:897:HIS:CE1	2.48	0.49
5:UB:747:GLU:O	5:UB:751:THR:HG22	2.13	0.49
7:UD:78:ILE:HD12	7:UD:104:TRP:HZ2	1.78	0.49
7:UD:262:ILE:HD11	7:UD:283:VAL:HG21	1.95	0.49
7:UD:326:ARG:NH1	7:UD:364:PHE:O	2.46	0.49
7:UD:551:ASP:OD1	7:UD:552:ILE:N	2.46	0.49
9:UF:28:GLU:HG2	21:UR:27:PHE:CZ	2.48	0.49
10:UG:194:ARG:H	10:UG:209:GLY:HA2	1.77	0.49
11:UH:582:ILE:O	11:UH:586:ILE:HG12	2.12	0.49
11:UH:635:PHE:HD1	11:UH:638:LEU:HD12	1.78	0.49
12:UI:509:GLN:C	12:UI:513:ARG:HE	2.19	0.49
15:UL:545:TYR:HE1	15:UL:559:PHE:CZ	2.31	0.49
16:UM:211:LEU:HD11	16:UM:225:PHE:CD1	2.48	0.49
16:UM:454:LEU:HD23	16:UM:466:TRP:O	2.12	0.49
16:UM:542:CYS:HB2	16:UM:547:LEU:H	1.77	0.49
20:UQ:396:ILE:HG22	20:UQ:397:LYS:HG2	1.94	0.49
23:UT:394:LEU:HD11	23:UT:435:PHE:CG	2.48	0.49
23:UT:514:PHE:O	23:UT:518:MET:HG3	2.12	0.49
23:UT:1090:ARG:O	23:UT:1094:PHE:N	2.46	0.49
23:UT:1344:TRP:O	23:UT:1348:LEU:HG	2.13	0.49
23:UT:1678:MET:HE1	23:UT:1720:ILE:HG13	1.95	0.49
24:UU:552:HIS:CD2	24:UU:555:SER:H	2.26	0.49
24:UU:874:SER:O	24:UU:876:LYS:NZ	2.25	0.49
28:CD:46:LYS:NZ	65:D2:485:G:OP2	2.46	0.49
29:CE:194:GLU:OE2	29:CE:242:SER:HA	2.12	0.49
30:CG:95:ARG:NE	31:CH:551:ARG:HB2	2.28	0.49
31:CH:233:GLU:OE1	31:CH:233:GLU:N	2.46	0.49
32:CI:137:ARG:HA	32:CI:142:LEU:HA	1.95	0.49
35:CL:111:LYS:HD2	35:CL:312:PHE:CE1	2.48	0.49
35:CL:143:ASP:OD1	35:CL:144:GLY:N	2.46	0.49
37:CN:223:LEU:CG	37:CN:227:ARG:HH12	2.25	0.49
38:JC:33:ARG:HE	38:JC:34:LYS:HE3	1.78	0.49
38:JC:70:TYR:HB3	38:JC:72:MET:HE3	1.95	0.49
38:JC:100:GLU:O	38:JC:100:GLU:HG2	2.13	0.49
38:JC:200:GLU:C	38:JC:202:ASN:H	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:JG:189:VAL:HG23	39:JG:244:GLY:HA3	1.95	0.49
39:JG:218:ASP:HA	39:JG:221:VAL:HG22	1.94	0.49
45:JN:236:MET:HE1	66:D3:8:U:C6	2.48	0.49
49:DE:11:ARG:NH2	49:DE:20:LEU:HD12	2.27	0.49
49:DE:130:GLN:HB3	49:DE:138:TYR:CZ	2.48	0.49
50:DF:34:GLN:O	50:DF:38:THR:HG23	2.13	0.49
51:DG:122:GLU:HG2	51:DG:123:GLY:N	2.28	0.49
51:DG:185:GLN:O	51:DG:188:ARG:HG2	2.13	0.49
52:DH:62:VAL:HG11	52:DH:70:PHE:CE2	2.47	0.49
53:DI:79:ALA:HB2	53:DI:164:ARG:NH1	2.25	0.49
53:DI:166:TYR:CE2	53:DI:193:LEU:HD21	2.47	0.49
56:DN:91:LEU:HB3	56:DN:122:ILE:HD12	1.93	0.49
65:D2:287:G:C5	67:D4:67:G:C2	3.01	0.49
66:D3:325:G:H2'	66:D3:326:G:H8	1.77	0.49
77:EJ:67:GLU:O	77:EJ:107:LEU:N	2.45	0.49
2:DA:243:LYS:HA	25:UV:656:ARG:HG2	1.95	0.48
4:UA:15:TYR:CD1	4:UA:20:ILE:HD11	2.48	0.48
4:UA:846:TYR:O	4:UA:850:VAL:HG22	2.13	0.48
7:UD:285:CYS:SG	7:UD:335:ALA:HA	2.53	0.48
7:UD:547:CYS:O	7:UD:566:LEU:O	2.31	0.48
7:UD:769:PHE:HE1	19:UP:211:LEU:HB2	1.78	0.48
10:UG:527:ARG:HH22	65:D2:366:A:P	2.35	0.48
11:UH:650:LEU:HD12	11:UH:655:LEU:HG	1.94	0.48
13:UJ:1418:ASN:O	13:UJ:1422:VAL:HG23	2.13	0.48
14:UK:237:SER:OG	14:UK:239:LYS:HD3	2.13	0.48
15:UL:594:ASP:OD1	15:UL:594:ASP:N	2.33	0.48
17:UN:848:PRO:HG3	47:JP:406:HIS:CE1	2.48	0.48
20:UQ:153:ILE:CG1	20:UQ:174:TYR:HB2	2.43	0.48
20:UQ:698:VAL:HG13	20:UQ:702:TYR:HD2	1.77	0.48
23:UT:356:ASP:OD1	23:UT:357:LYS:N	2.46	0.48
23:UT:1140:GLN:HG2	23:UT:1188:LYS:HD2	1.94	0.48
23:UT:1189:LEU:HD23	23:UT:1198:PHE:CE2	2.48	0.48
23:UT:1520:TRP:HE1	23:UT:1587:LYS:HE3	1.77	0.48
23:UT:1924:LEU:HD23	23:UT:1925:ASP:N	2.28	0.48
25:UV:369:TRP:HZ2	25:UV:495:THR:HG21	1.77	0.48
27:UZ:55:ARG:HH21	48:JQ:189:PRO:HA	1.78	0.48
28:CD:44:PHE:CD1	28:CD:47:LEU:HD23	2.47	0.48
29:CE:93:LYS:HD2	29:CE:94:LEU:HD22	1.94	0.48
29:CE:411:LYS:NZ	67:D4:69:A:OP1	2.42	0.48
30:CG:11:LEU:HG	30:CG:80:PHE:O	2.12	0.48
31:CH:443:LEU:HB3	31:CH:471:GLN:NE2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CI:85:MET:HE1	34:CK:451:LEU:HD23	1.94	0.48
33:CJ:189:LEU:HD23	33:CJ:191:PHE:CZ	2.47	0.48
36:CM:18:ARG:HD3	36:CM:98:TYR:CE1	2.47	0.48
39:JF:45:LEU:HD13	39:JF:206:VAL:HG23	1.94	0.48
39:JF:52:THR:HG21	39:JF:146:HIS:CE1	2.42	0.48
39:JG:167:ILE:O	39:JG:171:LEU:HG	2.13	0.48
51:DG:3:LEU:O	51:DG:15:THR:HA	2.12	0.48
56:DN:14:SER:HB3	66:D3:958:U:H2'	1.95	0.48
66:D3:554:C:H5	66:D3:571:G:N1	2.10	0.48
3:JA:23:ARG:HH11	3:JA:475:ARG:NH2	2.10	0.48
1:CB:194:VAL:HG23	1:CB:217:ILE:HA	1.95	0.48
1:CB:195:TYR:CD1	1:CB:234:ILE:HG23	2.48	0.48
1:CB:236:MET:H	29:CE:121:LYS:HZ3	1.61	0.48
1:CB:255:LEU:O	1:CB:259:MET:HG3	2.14	0.48
6:UC:502:LYS:HA	6:UC:505:LYS:HZ2	1.77	0.48
7:UD:565:ARG:HD2	7:UD:565:ARG:C	2.38	0.48
7:UD:587:ALA:C	7:UD:589:ASN:H	2.21	0.48
8:UE:54:GLU:H	8:UE:54:GLU:CD	2.21	0.48
10:UG:81:GLU:O	10:UG:82:LYS:HD3	2.13	0.48
10:UG:304:ARG:HG3	10:UG:304:ARG:HH21	1.77	0.48
12:UI:511:LYS:O	12:UI:514:GLU:HG2	2.12	0.48
13:UJ:248:SER:OG	13:UJ:249:LYS:N	2.47	0.48
13:UJ:684:TYR:O	13:UJ:688:PHE:HB2	2.13	0.48
13:UJ:1394:GLU:O	13:UJ:1397:GLN:HG3	2.13	0.48
13:UJ:1534:SER:HA	13:UJ:1537:LEU:HD12	1.94	0.48
13:UJ:1607:ARG:HB3	13:UJ:1612:ASP:HB2	1.96	0.48
13:UJ:1711:MET:HE2	13:UJ:1711:MET:HA	1.95	0.48
15:UL:420:LYS:H	15:UL:420:LYS:HD2	1.79	0.48
18:UO:480:LEU:HD23	18:UO:483:LEU:HD12	1.95	0.48
20:UQ:15:VAL:HA	20:UQ:67:LYS:HZ3	1.78	0.48
20:UQ:37:LEU:HD12	20:UQ:43:ASN:O	2.13	0.48
20:UQ:510:TYR:HB2	20:UQ:557:ILE:HD11	1.95	0.48
21:UR:235:ILE:HD12	21:UR:590:LYS:O	2.14	0.48
21:UR:319:ARG:HD3	21:UR:353:ARG:HH11	1.78	0.48
22:US:254:LYS:O	22:US:258:GLU:HG2	2.12	0.48
22:US:470:MET:CE	22:US:485:ALA:HB2	2.43	0.48
22:US:474:HIS:CD2	22:US:477:VAL:HG23	2.48	0.48
22:US:499:LEU:O	22:US:501:TRP:N	2.42	0.48
23:UT:77:LEU:HD21	23:UT:81:LEU:HD22	1.94	0.48
23:UT:773:LEU:O	23:UT:777:GLN:HG2	2.13	0.48
23:UT:940:GLY:HA2	23:UT:943:ARG:HE	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:1888:THR:HB	23:UT:1891:HIS:ND1	2.28	0.48
24:UU:253:SER:OG	24:UU:254:LEU:N	2.46	0.48
25:UV:1157:TYR:HD2	25:UV:1161:LEU:HD23	1.78	0.48
33:CJ:43:PRO:HD2	33:CJ:46:LEU:HD12	1.94	0.48
33:CJ:92:THR:HG21	33:CJ:96:PRO:CB	2.41	0.48
33:CJ:121:ASN:HB2	66:D3:1585:U:OP1	2.12	0.48
35:CL:75:VAL:HG22	35:CL:120:CYS:SG	2.53	0.48
35:CL:805:ASN:HD21	35:CL:807:LYS:HB2	1.79	0.48
35:CL:847:LEU:HA	35:CL:898:GLY:HA2	1.95	0.48
36:CM:80:ILE:HG22	36:CM:81:ILE:H	1.77	0.48
36:CM:139:PRO:O	36:CM:142:GLU:HG2	2.13	0.48
36:CM:231:ARG:NH1	66:D3:1133:A:O5'	2.31	0.48
39:JG:137:PHE:O	39:JG:141:MET:HG2	2.13	0.48
45:JN:170:ASN:HB2	65:D2:382:U:O4	2.13	0.48
47:JP:209:LEU:O	47:JP:210:LYS:HE2	2.12	0.48
50:DF:112:ARG:HD2	66:D3:1528:U:H5"	1.95	0.48
51:DG:69:LEU:O	51:DG:100:ALA:N	2.46	0.48
51:DG:79:LYS:HD3	51:DG:89:ASP:HA	1.94	0.48
52:DH:43:PHE:HB2	52:DH:62:VAL:HG22	1.93	0.48
65:D2:109:C:H5'	65:D2:110:G:OP1	2.12	0.48
66:D3:282:C:H2'	66:D3:283:U:C6	2.48	0.48
66:D3:305:C:H2'	66:D3:306:U:C6	2.48	0.48
66:D3:462:G:H2'	66:D3:463:U:C6	2.48	0.48
66:D3:539:G:O2'	66:D3:540:G:O5'	2.29	0.48
72:EE:190:GLN:O	72:EE:194:LEU:N	2.46	0.48
1:CA:127:GLU:OE1	44:JM:107:PRO:HG3	2.13	0.48
2:DA:27:LYS:HA	2:DA:49:ASN:O	2.13	0.48
3:JA:57:TRP:NE1	3:JA:125:GLN:HB2	2.28	0.48
3:JA:384:VAL:O	3:JA:406:VAL:HA	2.13	0.48
4:UA:319:PHE:HB2	4:UA:328:LEU:HB3	1.95	0.48
4:UA:549:GLN:NE2	4:UA:552:ASN:HB3	2.28	0.48
1:CB:185:SER:HB2	1:CB:194:VAL:HG21	1.95	0.48
11:UH:524:THR:HA	11:UH:527:LEU:HD12	1.94	0.48
13:UJ:525:PHE:O	13:UJ:529:VAL:HG23	2.13	0.48
13:UJ:547:ILE:O	13:UJ:551:ILE:HG12	2.14	0.48
13:UJ:551:ILE:HG21	13:UJ:588:LEU:HB3	1.95	0.48
13:UJ:585:ILE:O	13:UJ:589:ILE:HG12	2.13	0.48
15:UL:216:LEU:HD23	15:UL:216:LEU:H	1.77	0.48
16:UM:7:TYR:HE1	16:UM:648:THR:HG23	1.78	0.48
16:UM:389:ASP:HB3	16:UM:409:ASP:HB2	1.95	0.48
16:UM:592:SER:OG	16:UM:600:LYS:HB2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UQ:36:ARG:HH12	20:UQ:90:LYS:HD2	1.77	0.48
20:UQ:36:ARG:HH12	20:UQ:90:LYS:CD	2.27	0.48
20:UQ:714:ASP:HB3	20:UQ:718:GLY:H	1.79	0.48
22:US:286:ILE:HA	22:US:289:PHE:CB	2.42	0.48
23:UT:37:ARG:HG3	23:UT:40:ASP:HB2	1.95	0.48
23:UT:140:ILE:HD11	23:UT:188:LEU:HD21	1.95	0.48
23:UT:178:ILE:HA	23:UT:181:LEU:HG	1.95	0.48
23:UT:315:LEU:HD11	23:UT:358:VAL:HG22	1.93	0.48
23:UT:465:PHE:HA	23:UT:468:ALA:HB2	1.94	0.48
23:UT:708:ASP:OD1	23:UT:775:ARG:NH1	2.45	0.48
23:UT:1763:LEU:HA	23:UT:1766:PHE:CE2	2.45	0.48
25:UV:528:ASP:CA	25:UV:614:ARG:HH21	2.19	0.48
26:UX:128:LEU:HD11	26:UX:144:ARG:HH12	1.77	0.48
27:UZ:109:ARG:HH12	66:D3:1478:G:P	2.37	0.48
28:CD:261:GLN:HG3	29:CE:154:PHE:HZ	1.78	0.48
29:CE:179:THR:HG23	29:CE:180:TYR:HD1	1.78	0.48
35:CL:75:VAL:O	35:CL:141:LEU:HD23	2.13	0.48
36:CM:319:ASP:O	36:CM:323:ILE:HG12	2.13	0.48
38:JC:161:GLU:OE2	38:JC:177:LYS:NZ	2.46	0.48
39:JG:167:ILE:O	39:JG:170:HIS:N	2.44	0.48
43:JK:460:LYS:NZ	66:D3:342:C:H41	2.10	0.48
45:JN:291:ILE:HG22	45:JN:294:ARG:H	1.77	0.48
47:JP:301:PHE:HD1	47:JP:337:GLY:HA2	1.79	0.48
47:JP:314:SER:O	47:JP:316:THR:N	2.46	0.48
49:DE:161:LYS:HB3	49:DE:171:ASP:OD1	2.12	0.48
50:DF:186:ASN:HD21	50:DF:188:LYS:HB2	1.78	0.48
52:DH:21:ALA:O	52:DH:25:VAL:HG23	2.14	0.48
52:DH:78:THR:OG1	52:DH:79:ARG:NH1	2.46	0.48
53:DI:5:ARG:NH2	66:D3:331:A:O2'	2.46	0.48
56:DN:61:THR:HG23	56:DN:62:GLN:N	2.29	0.48
56:DN:72:MET:HE1	66:D3:961:U:O3'	2.13	0.48
66:D3:327:U:O4	66:D3:328:A:N6	2.47	0.48
66:D3:477:A:H2	66:D3:512:A:N1	2.12	0.48
66:D3:689:G:H2'	66:D3:690:G:C8	2.48	0.48
66:D3:846:G:H2'	66:D3:847:A:N7	2.27	0.48
66:D3:1682:U:O2'	66:D3:1683:C:H6	1.96	0.48
66:D3:1729:C:H2'	66:D3:1730:A:O4'	2.13	0.48
66:D3:1783:C:H2'	66:D3:1784:C:C6	2.48	0.48
67:D4:148:G:O6	67:D4:150:A:N6	2.46	0.48
67:D4:149:C:H1'	67:D4:150:A:N7	2.28	0.48
67:D4:156:U:H5"	67:D4:157:A:C8	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DA:216:LYS:NZ	66:D3:885:G:OP1	2.36	0.48
4:UA:88:ASN:ND2	24:UU:659:GLN:HE21	2.07	0.48
4:UA:385:GLU:HB2	4:UA:414:TRP:CH2	2.45	0.48
4:UA:396:ALA:C	4:UA:398:ARG:H	2.22	0.48
1:CB:169:LYS:HG2	1:CB:193:VAL:CG1	2.43	0.48
1:CB:302:GLU:OE1	14:UK:135:ILE:HA	2.14	0.48
7:UD:299:GLY:O	7:UD:333:ILE:HB	2.13	0.48
7:UD:647:TRP:CD2	7:UD:656:ARG:HB2	2.47	0.48
9:UF:311:TYR:HD2	9:UF:312:LEU:HD22	1.78	0.48
10:UG:157:ALA:CB	10:UG:168:VAL:HG12	2.42	0.48
12:UI:439:LYS:HA	12:UI:442:THR:HG22	1.95	0.48
15:UL:170:TRP:HB3	15:UL:178:ILE:HG22	1.94	0.48
15:UL:861:ILE:O	15:UL:865:HIS:HB2	2.13	0.48
16:UM:592:SER:HB3	16:UM:602:TRP:CH2	2.48	0.48
18:UO:123:SER:HB3	18:UO:150:ARG:NH1	2.27	0.48
20:UQ:578:ASN:ND2	65:D2:7:A:H62	2.11	0.48
21:UR:137:ILE:HG22	21:UR:138:LEU:HD23	1.95	0.48
24:UU:56:LYS:O	24:UU:76:THR:OG1	2.29	0.48
24:UU:279:ASP:OD1	24:UU:280:ARG:N	2.46	0.48
25:UV:688:LYS:HE2	25:UV:689:HIS:HD2	1.77	0.48
30:CF:33:LEU:HD12	30:CF:101:SER:O	2.14	0.48
30:CF:42:LYS:O	30:CF:46:ARG:HG2	2.13	0.48
30:CG:51:PHE:CE2	30:CG:53:ILE:HD11	2.49	0.48
31:CH:132:VAL:HG13	31:CH:409:ASP:HB3	1.95	0.48
35:CL:931:LYS:HB2	35:CL:1006:TRP:HZ3	1.78	0.48
37:CN:214:LEU:HD11	63:Db:76:GLY:HA2	1.96	0.48
38:JC:242:THR:OG1	38:JC:255:TYR:O	2.21	0.48
38:JC:281:ASP:OD1	38:JC:281:ASP:N	2.43	0.48
45:JN:257:ALA:O	45:JN:260:GLY:C	2.57	0.48
50:DF:117:THR:O	50:DF:121:ILE:HG12	2.14	0.48
62:DY:109:LYS:HZ2	66:D3:55:A:P	2.36	0.48
66:D3:387:A:N6	66:D3:402:C:O5'	2.35	0.48
66:D3:647:G:H22	66:D3:687:G:N2	2.11	0.48
66:D3:1662:G:H2'	66:D3:1663:G:C8	2.49	0.48
79:EN:960:ALA:O	79:EN:964:LYS:N	2.38	0.48
3:JA:16:ASN:O	3:JA:20:THR:HG22	2.13	0.48
3:JA:138:THR:HA	3:JA:141:THR:HG22	1.96	0.48
4:UA:14:VAL:HG21	4:UA:341:GLN:HB3	1.94	0.48
4:UA:284:PHE:CZ	4:UA:298:LEU:HB2	2.49	0.48
4:UA:369:ILE:HD11	4:UA:390:VAL:HG21	1.94	0.48
4:UA:728:GLU:HA	4:UA:731:ARG:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:UB:716:LYS:HZ1	39:JG:153:VAL:CA	2.27	0.48
7:UD:147:ILE:O	7:UD:148:SER:OG	2.30	0.48
7:UD:374:THR:OG1	7:UD:375:VAL:N	2.45	0.48
7:UD:535:GLU:HG3	7:UD:573:VAL:HG13	1.96	0.48
9:UF:89:GLN:HB3	9:UF:120:ARG:CZ	2.43	0.48
9:UF:271:LEU:HG	9:UF:337:HIS:HB3	1.96	0.48
10:UG:121:ASN:HB2	10:UG:123:THR:HG22	1.94	0.48
13:UJ:309:GLN:HE22	21:UR:224:ASN:C	2.22	0.48
13:UJ:1592:SER:O	13:UJ:1595:THR:OG1	2.21	0.48
15:UL:49:VAL:CG1	15:UL:63:LEU:HB2	2.43	0.48
15:UL:261:PHE:N	15:UL:343:TRP:HE1	2.11	0.48
15:UL:791:ASN:OD1	15:UL:792:ALA:N	2.46	0.48
16:UM:155:GLN:HB2	16:UM:158:SER:HB3	1.94	0.48
16:UM:760:ILE:HA	16:UM:763:ILE:HG22	1.96	0.48
18:UO:251:PHE:HD1	18:UO:255:VAL:HG12	1.78	0.48
20:UQ:313:LEU:HD23	20:UQ:323:LEU:HG	1.94	0.48
20:UQ:420:SER:HA	20:UQ:423:LYS:HG2	1.95	0.48
20:UQ:728:LEU:HD23	20:UQ:728:LEU:H	1.78	0.48
22:US:376:VAL:O	22:US:380:ILE:HG13	2.13	0.48
23:UT:853:HIS:HA	23:UT:856:VAL:HG22	1.94	0.48
24:UU:37:VAL:HB	24:UU:53:CYS:HB3	1.96	0.48
25:UV:931:ASP:OD1	25:UV:932:GLU:N	2.46	0.48
26:UX:80:VAL:HG11	26:UX:178:HIS:O	2.13	0.48
29:CE:58:GLU:OE2	29:CE:150:HIS:HB3	2.12	0.48
34:CK:309:LYS:HA	34:CK:312:GLU:CD	2.39	0.48
34:CK:358:THR:OG1	34:CK:359:SER:N	2.46	0.48
35:CL:56:VAL:CG2	61:DX:101:GLU:HG3	2.43	0.48
35:CL:92:ARG:C	35:CL:92:ARG:HD3	2.39	0.48
35:CL:623:LYS:HA	35:CL:626:LYS:HG2	1.95	0.48
35:CL:750:TRP:HE3	61:DX:77:ILE:HG23	1.77	0.48
36:CM:181:HIS:HE1	36:CM:309:GLY:HA2	1.78	0.48
38:JC:53:PHE:CE1	38:JC:338:MET:HG2	2.47	0.48
39:JG:55:ILE:O	39:JG:63:ASP:N	2.47	0.48
42:JJ:106:MET:CE	42:JJ:135:LYS:HB3	2.43	0.48
42:JJ:213:LYS:NZ	66:D3:1770:U:H1'	2.28	0.48
46:JO:57:TRP:CZ3	46:JO:80:MET:HE3	2.48	0.48
47:JP:188:HIS:CD2	47:JP:190:GLU:H	2.31	0.48
47:JP:391:LYS:HG2	47:JP:395:GLU:OE1	2.13	0.48
57:DO:28:VAL:HG23	57:DO:67:VAL:HG21	1.95	0.48
66:D3:955:A:C5	66:D3:956:C:N3	2.82	0.48
69:EB:256:MET:O	70:EC:196:LEU:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:EI:348:ILE:O	76:EI:352:GLU:N	2.46	0.48
3:JA:568:LEU:HD12	3:JA:569:PRO:HD2	1.94	0.48
4:UA:116:GLY:O	4:UA:148:ASP:HA	2.14	0.48
4:UA:341:GLN:NE2	4:UA:378:PHE:HB3	2.28	0.48
4:UA:432:GLN:O	4:UA:432:GLN:HG3	2.14	0.48
7:UD:312:ASN:HA	7:UD:315:GLN:NE2	2.28	0.48
7:UD:485:LYS:HA	7:UD:498:VAL:O	2.13	0.48
9:UF:28:GLU:HG2	21:UR:27:PHE:CE2	2.48	0.48
9:UF:96:TYR:O	9:UF:100:THR:HG23	2.13	0.48
10:UG:358:MET:HE1	65:D2:315:U:H4'	1.96	0.48
11:UH:676:TRP:CD1	11:UH:676:TRP:C	2.91	0.48
12:UI:414:PRO:O	12:UI:418:LYS:HG3	2.12	0.48
13:UJ:531:ILE:HD11	13:UJ:566:CYS:HB3	1.96	0.48
13:UJ:666:ALA:HA	13:UJ:669:VAL:HG12	1.94	0.48
13:UJ:1392:LEU:O	13:UJ:1396:LEU:HG	2.14	0.48
14:UK:117:LYS:NZ	14:UK:204:HIS:CE1	2.81	0.48
20:UQ:146:HIS:HB3	20:UQ:151:TYR:CD2	2.49	0.48
21:UR:233:LEU:HD11	21:UR:552:PHE:CG	2.48	0.48
22:US:155:LEU:O	22:US:158:SER:OG	2.31	0.48
23:UT:100:GLU:HG2	23:UT:101:PHE:N	2.29	0.48
23:UT:220:GLU:HG3	23:UT:268:PRO:HG3	1.95	0.48
23:UT:903:THR:O	53:DI:77:ARG:NH2	2.42	0.48
23:UT:1588:GLN:O	23:UT:1592:PRO:HD3	2.12	0.48
23:UT:1674:ILE:HA	23:UT:1677:LEU:HG	1.96	0.48
23:UT:1777:LEU:HD12	23:UT:1863:LEU:HD22	1.96	0.48
23:UT:1927:SER:OG	23:UT:1928:ASP:N	2.45	0.48
24:UU:220:ILE:HD13	24:UU:234:ASN:HA	1.95	0.48
28:CD:172:ASN:OD1	28:CD:173:HIS:N	2.46	0.48
28:CD:194:ARG:HG2	29:CE:169:LEU:HD13	1.95	0.48
29:CE:5:LEU:HD21	29:CE:89:VAL:HG23	1.95	0.48
31:CH:551:ARG:O	31:CH:553:ILE:N	2.47	0.48
33:CJ:80:THR:HA	33:CJ:83:ILE:HD13	1.96	0.48
35:CL:65:ASP:N	35:CL:65:ASP:OD1	2.46	0.48
35:CL:177:PHE:CD2	35:CL:183:LEU:HA	2.46	0.48
35:CL:635:PHE:HZ	36:CM:221:CYS:HB2	1.77	0.48
36:CM:274:LYS:CD	36:CM:278:GLN:HE22	2.24	0.48
37:CN:62:SER:HA	37:CN:66:HIS:CD2	2.49	0.48
37:CN:66:HIS:CE1	37:CN:161:THR:H	2.32	0.48
37:CN:256:ASP:N	37:CN:256:ASP:OD1	2.46	0.48
38:JC:144:LEU:HD21	38:JC:153:LEU:HD12	1.94	0.48
38:JC:230:GLN:N	38:JC:247:THR:OG1	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:JC:262:PRO:HB2	38:JC:265:ILE:HG13	1.95	0.48
43:JK:460:LYS:NZ	66:D3:341:A:N7	2.56	0.48
44:JM:181:GLU:O	44:JM:185:LYS:NZ	2.43	0.48
47:JP:235:LEU:HD23	47:JP:236:ALA:N	2.29	0.48
49:DE:212:ASP:O	49:DE:215:ASP:CA	2.62	0.48
50:DF:100:ASN:O	50:DF:104:ASN:ND2	2.47	0.48
50:DF:127:GLN:HG3	50:DF:128:ASN:N	2.25	0.48
53:DI:36:THR:HB	53:DI:96:LEU:HB2	1.94	0.48
66:D3:29:U:H2'	66:D3:30:G:C8	2.44	0.48
66:D3:104:A:O5'	66:D3:308:C:N4	2.37	0.48
66:D3:1049:U:C2	66:D3:1050:G:C8	3.02	0.48
1:CA:142:ARG:HH21	1:CA:183:HIS:CG	2.31	0.48
2:DA:105:PHE:CE2	2:DA:211:HIS:HB3	2.49	0.48
2:DA:121:ILE:HD13	2:DA:164:ILE:CD1	2.42	0.48
3:JA:747:LEU:HD13	3:JA:760:CYS:HB2	1.94	0.48
3:JA:771:SER:HB3	3:JA:774:LEU:HG	1.95	0.48
4:UA:29:LEU:HD21	4:UA:327:LEU:HD21	1.95	0.48
4:UA:162:LEU:HD22	4:UA:199:PHE:CE2	2.49	0.48
5:UB:616:LEU:HB3	5:UB:619:LEU:HB3	1.95	0.48
7:UD:32:ILE:HA	11:UH:720:TYR:CB	2.44	0.48
7:UD:370:ARG:HH11	7:UD:371:LYS:H	1.62	0.48
7:UD:426:GLN:OE1	7:UD:426:GLN:N	2.46	0.48
9:UF:203:MET:HE3	9:UF:207:ASN:HD22	1.78	0.48
10:UG:69:GLU:HG2	10:UG:409:ALA:HB1	1.96	0.48
10:UG:74:LEU:HG	47:JP:3:ILE:HD12	1.95	0.48
11:UH:676:TRP:CB	12:UI:486:LEU:HD13	2.42	0.48
13:UJ:251:LYS:O	13:UJ:255:ILE:HG12	2.14	0.48
13:UJ:309:GLN:NE2	21:UR:225:SER:HA	2.29	0.48
13:UJ:663:SER:O	13:UJ:667:LYS:HG2	2.14	0.48
14:UK:200:GLN:NE2	14:UK:204:HIS:NE2	2.62	0.48
15:UL:878:LEU:HG	15:UL:882:ARG:HH21	1.79	0.48
16:UM:16:TYR:O	16:UM:336:ASN:HB2	2.14	0.48
16:UM:519:ASN:OD1	16:UM:520:LEU:N	2.46	0.48
20:UQ:15:VAL:HA	20:UQ:67:LYS:NZ	2.28	0.48
20:UQ:720:ILE:HG22	20:UQ:745:ILE:HA	1.95	0.48
23:UT:636:ARG:NH2	66:D3:165:G:O2'	2.44	0.48
24:UU:513:MET:HA	24:UU:513:MET:HE2	1.95	0.48
24:UU:580:GLN:C	24:UU:581:LEU:HD12	2.38	0.48
25:UV:339:SER:HA	25:UV:342:HIS:CD2	2.48	0.48
25:UV:433:ASP:HB3	25:UV:437:ASP:HB3	1.96	0.48
25:UV:525:LEU:O	25:UV:616:LYS:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:652:LYS:HD3	25:UV:684:PHE:CZ	2.49	0.48
25:UV:905:SER:C	25:UV:906:TYR:HD2	2.21	0.48
29:CE:234:ARG:O	29:CE:237:THR:HG22	2.14	0.48
33:CJ:189:LEU:HD21	33:CJ:210:PHE:CG	2.49	0.48
35:CL:777:ARG:NH2	35:CL:781:GLU:OE1	2.46	0.48
36:CM:231:ARG:HH12	66:D3:1133:A:P	2.36	0.48
38:JC:145:VAL:HB	38:JC:154:TYR:CZ	2.48	0.48
38:JC:255:TYR:CD1	38:JC:262:PRO:HA	2.48	0.48
47:JP:137:LEU:HD21	47:JP:147:LEU:HD12	1.95	0.48
49:DE:183:VAL:HG13	49:DE:189:LEU:HA	1.96	0.48
50:DF:133:VAL:HG22	50:DF:198:LEU:HD13	1.95	0.48
57:DO:18:ARG:HH12	66:D3:919:A:P	2.37	0.48
65:D2:359:U:H2'	65:D2:360:C:C6	2.48	0.48
66:D3:330:G:C6	66:D3:331:A:C6	3.01	0.48
66:D3:363:G:H2'	66:D3:364:G:H8	1.79	0.48
66:D3:1531:G:H2'	66:D3:1532:U:H6	1.79	0.48
1:CA:107:VAL:HG22	1:CA:143:VAL:HA	1.94	0.48
4:UA:762:GLU:OE1	4:UA:762:GLU:N	2.47	0.48
5:UB:598:LEU:HD12	5:UB:598:LEU:O	2.14	0.48
6:UC:566:ARG:HH12	66:D3:479:C:P	2.36	0.48
7:UD:52:SER:OG	7:UD:65:LEU:HD12	2.13	0.48
7:UD:297:SER:OG	7:UD:305:PHE:HB2	2.14	0.48
8:UE:546:ARG:NH1	11:UH:677:ASN:OD1	2.47	0.48
10:UG:414:LEU:HD22	67:D4:37:G:C6	2.49	0.48
12:UI:458:TRP:HA	12:UI:461:THR:HG22	1.96	0.48
13:UJ:364:ASN:OD1	13:UJ:365:ILE:N	2.47	0.48
14:UK:11:LYS:O	14:UK:12:GLN:HB3	2.14	0.48
15:UL:170:TRP:CZ3	15:UL:172:GLN:HB2	2.49	0.48
16:UM:401:LEU:HD23	16:UM:417:TYR:CD1	2.49	0.48
16:UM:580:ARG:HB3	16:UM:593:CYS:SG	2.54	0.48
19:UP:185:GLN:HA	19:UP:188:LYS:HZ2	1.78	0.48
21:UR:141:ASN:CG	65:D2:311:C:H42	2.21	0.48
21:UR:241:ALA:HA	21:UR:282:ASN:HD22	1.77	0.48
21:UR:541:LEU:HD23	21:UR:542:ARG:N	2.29	0.48
23:UT:123:LYS:H	23:UT:123:LYS:HD3	1.77	0.48
23:UT:362:PHE:O	23:UT:366:ILE:HG12	2.14	0.48
23:UT:367:ARG:O	23:UT:407:ARG:NH2	2.45	0.48
23:UT:674:PHE:CD2	23:UT:676:PRO:HD2	2.49	0.48
23:UT:1689:VAL:HG23	23:UT:1744:GLU:OE1	2.13	0.48
24:UU:859:ASP:N	24:UU:859:ASP:OD1	2.47	0.48
27:UZ:222:PHE:HD2	27:UZ:223:LEU:HD22	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:CF:42:LYS:NZ	67:D4:327:G:O6	2.37	0.48
30:CG:79:VAL:CG2	30:CG:121:ILE:HD12	2.40	0.48
31:CH:142:ILE:H	31:CH:142:ILE:HD12	1.77	0.48
31:CH:155:ASN:OD1	31:CH:561:ASN:ND2	2.47	0.48
31:CH:546:GLU:CD	31:CH:551:ARG:HG2	2.38	0.48
35:CL:805:ASN:ND2	35:CL:807:LYS:HB2	2.29	0.48
37:CN:62:SER:HA	37:CN:66:HIS:CG	2.49	0.48
37:CN:262:VAL:HG13	37:CN:266:LYS:NZ	2.28	0.48
38:JC:285:THR:OG1	38:JC:286:GLU:N	2.46	0.48
47:JP:201:ILE:CG2	47:JP:215:LEU:HB2	2.44	0.48
49:DE:68:ARG:HE	49:DE:76:VAL:HG11	1.78	0.48
51:DG:56:ASN:HD21	66:D3:153:G:H21	1.62	0.48
51:DG:60:GLY:HA2	66:D3:154:G:O2'	2.14	0.48
52:DH:138:LYS:HB3	60:DW:54:ASP:OD1	2.13	0.48
54:DJ:108:ARG:NH1	54:DJ:110:GLN:HE21	2.12	0.48
58:DQ:40:GLU:OE2	66:D3:1481:C:H5'	2.14	0.48
60:DW:15:ASN:ND2	60:DW:71:LYS:HG3	2.24	0.48
65:D2:212:U:H2'	65:D2:213:G:C8	2.48	0.48
66:D3:575:C:O2'	66:D3:576:G:H8	1.96	0.48
66:D3:972:G:C2	66:D3:973:A:C4	3.02	0.48
66:D3:1587:A:C2	66:D3:1588:G:C8	3.02	0.48
66:D3:1617:U:H5"	66:D3:1618:C:OP2	2.13	0.48
70:EC:105:VAL:O	70:EC:109:GLU:N	2.47	0.48
72:EE:217:ILE:O	72:EE:221:LEU:N	2.45	0.48
79:EN:92:GLU:HA	79:EN:114:ARG:HA	1.95	0.48
3:JA:69:HIS:CE1	3:JA:71:LYS:HB3	2.48	0.48
3:JA:309:PHE:O	3:JA:384:VAL:HA	2.14	0.48
4:UA:492:SER:C	4:UA:494:ASP:N	2.72	0.48
4:UA:492:SER:O	4:UA:494:ASP:N	2.47	0.48
5:UB:511:SER:HA	5:UB:557:SER:HA	1.96	0.48
8:UE:247:THR:HG21	8:UE:292:TYR:HA	1.95	0.48
8:UE:453:LEU:O	8:UE:457:LEU:HD23	2.14	0.48
13:UJ:216:CYS:O	13:UJ:220:VAL:HG23	2.14	0.48
13:UJ:1517:ASP:OD1	13:UJ:1520:THR:OG1	2.23	0.48
14:UK:16:ARG:CZ	66:D3:575:C:C4	2.97	0.48
15:UL:88:HIS:HD2	15:UL:91:THR:HG23	1.79	0.48
16:UM:292:GLY:HA3	16:UM:305:VAL:HB	1.96	0.48
16:UM:446:VAL:HG12	16:UM:450:TYR:O	2.14	0.48
16:UM:486:THR:OG1	16:UM:487:ARG:NH2	2.47	0.48
17:UN:880:LYS:NZ	65:D2:486:U:H2'	2.28	0.48
18:UO:31:THR:OG1	18:UO:32:SER:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UQ:320:VAL:HA	20:UQ:334:LEU:O	2.14	0.48
20:UQ:554:SER:O	20:UQ:554:SER:OG	2.32	0.48
21:UR:382:GLY:C	21:UR:399:LYS:HA	2.39	0.48
21:UR:480:ARG:HD3	21:UR:481:TRP:NE1	2.29	0.48
22:US:199:PHE:HD2	22:US:260:ASN:ND2	2.12	0.48
23:UT:187:TYR:HB2	23:UT:191:PHE:CZ	2.49	0.48
23:UT:1020:ASN:OD1	23:UT:1024:GLN:NE2	2.47	0.48
23:UT:1130:ALA:O	23:UT:1134:MET:HG2	2.13	0.48
23:UT:1410:LEU:HD23	23:UT:1413:VAL:H	1.79	0.48
23:UT:1957:GLN:HE22	23:UT:1995:ARG:C	2.20	0.48
24:UU:476:PHE:CD1	24:UU:486:ILE:HG12	2.49	0.48
24:UU:910:GLN:O	24:UU:913:GLU:HG3	2.14	0.48
25:UV:162:PHE:HD2	25:UV:166:LYS:HZ2	1.61	0.48
25:UV:674:SER:HA	25:UV:705:HIS:HB3	1.95	0.48
25:UV:808:LEU:HD23	25:UV:812:GLU:OE1	2.13	0.48
29:CE:256:ASN:O	29:CE:260:GLU:HG3	2.13	0.48
31:CH:367:LYS:HD2	31:CH:370:ARG:HD2	1.96	0.48
33:CJ:119:ARG:NH2	33:CJ:124:MET:HE3	2.28	0.48
35:CL:138:VAL:HG23	35:CL:167:VAL:HG23	1.95	0.48
35:CL:244:MET:SD	35:CL:812:MET:HE3	2.53	0.48
36:CM:207:ARG:HB3	36:CM:269:GLU:CD	2.38	0.48
38:JC:289:ILE:HD12	38:JC:299:ILE:HG13	1.96	0.48
51:DG:21:GLU:OE1	51:DG:24:ILE:HD11	2.14	0.48
51:DG:45:PHE:HA	51:DG:48:TYR:CD1	2.48	0.48
51:DG:106:LEU:HD21	51:DG:109:LEU:HG	1.95	0.48
52:DH:97:ARG:HH22	66:D3:641:G:N2	2.11	0.48
53:DI:11:ARG:HB2	66:D3:323:A:H5"	1.94	0.48
55:DL:136:ARG:HD3	66:D3:304:U:H5"	1.94	0.48
65:D2:339:A:N7	65:D2:340:U:C4	2.82	0.48
66:D3:89:G:C6	66:D3:452:A:C6	3.02	0.48
66:D3:117:U:H2'	66:D3:118:U:O4'	2.13	0.48
66:D3:209:U:H2'	66:D3:210:A:H8	1.78	0.48
66:D3:481:A:C6	66:D3:482:U:C4	3.01	0.48
66:D3:561:G:C2	66:D3:567:A:C2	3.02	0.48
66:D3:902:G:H1'	66:D3:907:A:H61	1.78	0.48
66:D3:968:U:H2'	66:D3:969:C:O4'	2.14	0.48
66:D3:1202:A:H3'	66:D3:1203:A:H8	1.79	0.48
66:D3:1599:C:H2'	66:D3:1600:A:C8	2.49	0.48
67:D4:111:G:C2	67:D4:260:U:C4	3.01	0.48
79:EN:400:MET:O	79:EN:404:LYS:N	2.44	0.48
3:JA:25:ILE:HG13	3:JA:148:VAL:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JA:160:GLN:O	3:JA:163:THR:OG1	2.22	0.48
3:JA:805:ILE:HB	3:JA:809:LYS:NZ	2.28	0.48
3:JA:818:GLU:HB2	3:JA:819:LYS:NZ	2.29	0.48
1:CB:172:TYR:HD2	1:CB:175:ALA:HB2	1.79	0.48
5:UB:444:ASN:H	5:UB:446:GLN:NE2	2.04	0.48
5:UB:573:LEU:HD21	5:UB:667:LEU:HD21	1.95	0.48
6:UC:569:TYR:CG	54:DJ:32:GLY:HA3	2.49	0.48
7:UD:45:THR:HG1	7:UD:352:VAL:HA	1.78	0.48
7:UD:237:GLU:OE1	19:UP:208:ARG:NE	2.47	0.48
7:UD:246:TYR:HD1	7:UD:253:ILE:HG22	1.77	0.48
8:UE:288:LYS:HE2	8:UE:289:VAL:O	2.14	0.48
8:UE:489:ALA:C	18:UO:16:LEU:HD21	2.39	0.48
8:UE:539:ARG:HH11	20:UQ:524:ASP:CG	2.20	0.48
10:UG:136:SER:OG	10:UG:159:TYR:OH	1.99	0.48
11:UH:651:GLU:O	11:UH:655:LEU:HD23	2.14	0.48
11:UH:676:TRP:NE1	11:UH:680:ASP:OD2	2.47	0.48
13:UJ:316:PRO:HB2	13:UJ:319:ILE:HD12	1.96	0.48
13:UJ:1362:LEU:HA	13:UJ:1365:LYS:HB2	1.95	0.48
14:UK:199:LYS:O	14:UK:202:LYS:N	2.47	0.48
15:UL:75:ARG:NE	15:UL:76:GLY:H	2.11	0.48
15:UL:432:TYR:HD2	66:D3:1657:U:C5	2.32	0.48
15:UL:635:LYS:O	15:UL:659:GLU:HG3	2.14	0.48
15:UL:866:LYS:HA	15:UL:866:LYS:HD2	1.75	0.48
18:UO:495:ILE:O	18:UO:498:SER:OG	2.30	0.48
20:UQ:491:GLN:NE2	20:UQ:514:TYR:HB2	2.28	0.48
21:UR:141:ASN:HD22	65:D2:307:C:C5'	2.26	0.48
21:UR:500:MET:HG3	21:UR:501:THR:HG23	1.95	0.48
23:UT:498:ILE:HG23	23:UT:499:PRO:HD3	1.96	0.48
23:UT:648:GLU:HA	23:UT:651:LYS:HG2	1.95	0.48
23:UT:1013:THR:N	53:DI:115:ALA:O	2.39	0.48
23:UT:1144:GLU:HB2	23:UT:1189:LEU:HG	1.96	0.48
23:UT:1363:LEU:HA	23:UT:1366:ASN:HD21	1.78	0.48
25:UV:572:TYR:HE2	25:UV:648:PHE:CG	2.32	0.48
29:CE:328:ARG:O	29:CE:332:THR:HG22	2.12	0.48
30:CF:34:LYS:HE3	30:CF:39:GLU:CG	2.44	0.48
30:CF:34:LYS:HE3	30:CF:39:GLU:HG2	1.96	0.48
30:CF:111:LYS:O	30:CF:114:ILE:HG22	2.14	0.48
32:CI:109:ARG:HD2	32:CI:109:ARG:HA	1.65	0.48
33:CJ:188:HIS:ND1	34:CK:378:PHE:CE1	2.82	0.48
35:CL:230:MET:HE2	35:CL:230:MET:HA	1.96	0.48
35:CL:237:TRP:CZ2	35:CL:850:GLY:HA2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:JC:17:SER:OG	38:JC:340:THR:N	2.28	0.48
38:JC:60:ASN:HB3	38:JC:74:THR:HB	1.96	0.48
47:JP:196:THR:HB	47:JP:204:TRP:HE1	1.79	0.48
66:D3:551:G:N2	66:D3:588:U:O2	2.47	0.48
66:D3:1068:C:H2'	66:D3:1069:A:C8	2.48	0.48
66:D3:1148:C:H2'	66:D3:1149:G:C8	2.49	0.48
66:D3:1508:U:H2'	66:D3:1509:C:H6	1.79	0.48
4:UA:482:SER:HB3	4:UA:487:VAL:HG22	1.96	0.47
5:UB:490:PHE:CD1	5:UB:493:LEU:HD21	2.48	0.47
6:UC:511:GLU:HA	6:UC:514:LYS:HG2	1.96	0.47
7:UD:116:SER:CB	7:UD:126:TRP:HE1	2.27	0.47
7:UD:519:THR:H	7:UD:522:SER:HB2	1.79	0.47
15:UL:284:PHE:CD1	15:UL:328:PRO:HA	2.49	0.47
15:UL:677:HIS:C	15:UL:679:HIS:H	2.22	0.47
15:UL:840:MET:HE1	15:UL:882:ARG:C	2.39	0.47
16:UM:350:LEU:HD12	16:UM:626:MET:HE1	1.96	0.47
16:UM:542:CYS:O	16:UM:546:LYS:CA	2.62	0.47
17:UN:298:TRP:CZ2	17:UN:896:ALA:HB2	2.49	0.47
18:UO:40:ASN:CG	18:UO:41:SER:H	2.20	0.47
18:UO:253:LYS:HG2	18:UO:278:ASP:OD1	2.14	0.47
18:UO:467:LEU:HD21	18:UO:484:MET:HE2	1.96	0.47
20:UQ:554:SER:OG	65:D2:7:A:N3	2.47	0.47
21:UR:232:LYS:HA	21:UR:554:ASN:ND2	2.28	0.47
22:US:208:TYR:O	22:US:211:LEU:HG	2.13	0.47
22:US:295:LEU:HD13	22:US:298:PHE:CD1	2.48	0.47
22:US:419:PRO:HG3	39:JG:19:LEU:HD21	1.95	0.47
23:UT:790:GLU:OE2	23:UT:839:LYS:NZ	2.41	0.47
23:UT:850:LEU:O	23:UT:854:LEU:HG	2.14	0.47
23:UT:885:ARG:HA	23:UT:888:LEU:HD12	1.95	0.47
23:UT:954:PRO:HG3	23:UT:1010:VAL:HG22	1.95	0.47
23:UT:1706:LYS:HB2	23:UT:1709:ASP:OD2	2.14	0.47
23:UT:1929:GLU:OE1	23:UT:1929:GLU:N	2.43	0.47
23:UT:1948:SER:HB2	47:JP:208:ARG:HH12	1.79	0.47
24:UU:69:LEU:HB3	24:UU:70:PHE:CD2	2.49	0.47
24:UU:125:GLY:HA3	29:CE:433:THR:OG1	2.14	0.47
24:UU:323:VAL:HG11	29:CE:419:VAL:HG11	1.96	0.47
24:UU:760:LEU:HA	24:UU:763:SER:OG	2.14	0.47
25:UV:249:ASP:N	25:UV:249:ASP:OD1	2.44	0.47
25:UV:724:LEU:HB2	25:UV:728:PHE:CZ	2.49	0.47
25:UV:958:PHE:CE1	25:UV:962:LEU:HD11	2.49	0.47
27:UZ:53:ILE:HG21	48:JQ:189:PRO:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:UZ:141:SER:HA	27:UZ:144:TYR:HB2	1.96	0.47
32:CI:93:LYS:HB3	32:CI:96:ASP:CG	2.39	0.47
34:CK:538:LYS:HG2	66:D3:1628:U:N3	2.29	0.47
39:JF:38:THR:OG1	39:JF:40:ARG:NH2	2.47	0.47
39:JG:44:VAL:HA	39:JG:113:TYR:O	2.14	0.47
47:JP:300:VAL:O	47:JP:300:VAL:HG13	2.13	0.47
49:DE:63:ALA:O	49:DE:67:GLN:HG3	2.14	0.47
50:DF:184:PHE:CD2	50:DF:185:ARG:HG2	2.49	0.47
50:DF:222:LYS:HD2	50:DF:225:ARG:CZ	2.44	0.47
56:DN:31:GLU:O	56:DN:35:GLU:OE1	2.32	0.47
62:DY:18:LEU:HB2	62:DY:20:ARG:HG2	1.96	0.47
63:Db:81:ARG:HG2	63:Db:82:LYS:H	1.80	0.47
65:D2:235:A:O2'	65:D2:236:C:OP2	2.30	0.47
66:D3:65:A:O2'	66:D3:67:A:OP1	2.21	0.47
66:D3:473:A:N6	66:D3:474:A:H62	2.12	0.47
66:D3:478:A:C2	66:D3:479:C:C2	3.02	0.47
66:D3:575:C:O2'	66:D3:576:G:P	2.72	0.47
66:D3:1586:A:C2	66:D3:1611:A:C4	3.02	0.47
3:JA:734:HIS:HE1	3:JA:803:SER:C	2.22	0.47
1:CB:181:VAL:HA	1:CB:184:VAL:HG22	1.96	0.47
9:UF:183:TYR:HE2	9:UF:318:ARG:HG2	1.79	0.47
11:UH:587:LEU:HD23	20:UQ:605:ASN:ND2	2.28	0.47
13:UJ:631:VAL:HG13	13:UJ:633:GLU:H	1.78	0.47
13:UJ:1732:VAL:O	13:UJ:1736:LEU:HG	2.14	0.47
14:UK:66:ALA:HB3	35:CL:1079:PHE:CZ	2.49	0.47
15:UL:42:ILE:HA	15:UL:51:ILE:HG22	1.96	0.47
15:UL:148:TRP:HA	15:UL:155:GLY:HA2	1.96	0.47
16:UM:738:LEU:O	16:UM:742:ARG:HG2	2.14	0.47
19:UP:196:SER:HA	19:UP:199:ILE:HG12	1.95	0.47
23:UT:146:ASN:HA	23:UT:149:GLU:CD	2.39	0.47
23:UT:219:LEU:O	23:UT:223:ASP:HB3	2.14	0.47
23:UT:526:TYR:CE2	23:UT:561:LEU:HD23	2.49	0.47
23:UT:758:ILE:O	23:UT:762:ILE:HG12	2.13	0.47
23:UT:1199:LEU:HD11	23:UT:1243:ILE:HG12	1.97	0.47
23:UT:1794:ARG:HH11	23:UT:1795:ARG:HE	1.62	0.47
24:UU:610:ARG:HH21	24:UU:673:PHE:HD2	1.62	0.47
25:UV:146:LEU:HD13	25:UV:176:PHE:HZ	1.79	0.47
25:UV:306:LYS:O	25:UV:312:ARG:HG3	2.13	0.47
25:UV:1051:LEU:H	25:UV:1051:LEU:HD12	1.79	0.47
25:UV:1145:PRO:O	25:UV:1149:LEU:HG	2.14	0.47
26:UX:64:GLN:OE1	26:UX:97:LEU:HD11	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:UX:79:LYS:NZ	45:JN:310:SER:H	2.12	0.47
27:UZ:90:ASP:O	27:UZ:92:HIS:N	2.47	0.47
28:CD:159:SER:OG	28:CD:160:ARG:N	2.44	0.47
29:CE:70:SER:HA	29:CE:73:GLU:CD	2.39	0.47
31:CH:327:ASP:HB3	31:CH:339:VAL:HG22	1.95	0.47
35:CL:58:MET:HE1	66:D3:434:G:H22	1.77	0.47
35:CL:549:ILE:HB	35:CL:567:TRP:NE1	2.29	0.47
38:JC:147:ASN:HB3	38:JC:152:ASP:HB3	1.96	0.47
45:JN:231:LEU:H	45:JN:231:LEU:HD12	1.80	0.47
45:JN:268:LYS:HB2	45:JN:271:GLN:OE1	2.14	0.47
46:JO:131:PHE:HB2	46:JO:191:MET:HE2	1.96	0.47
47:JP:173:ILE:HG22	47:JP:174:ARG:HG3	1.96	0.47
47:JP:284:HIS:NE2	47:JP:306:SER:HA	2.29	0.47
47:JP:453:TYR:CE2	66:D3:-2:A:C5	3.01	0.47
49:DE:141:THR:OG1	49:DE:143:ASP:OD1	2.22	0.47
57:DO:18:ARG:NH1	66:D3:919:A:OP1	2.47	0.47
58:DQ:26:LYS:N	58:DQ:64:ASP:OD1	2.47	0.47
62:DY:25:VAL:HG12	62:DY:71:GLY:O	2.15	0.47
65:D2:13:U:H1'	65:D2:70:A:N7	2.29	0.47
65:D2:219:U:H2'	65:D2:220:U:C6	2.49	0.47
65:D2:453:A:N7	65:D2:454:C:C4	2.82	0.47
66:D3:233:C:H4'	66:D3:234:G:H5"	1.95	0.47
66:D3:568:G:N2	66:D3:569:C:C2	2.82	0.47
3:JA:70:ARG:HA	3:JA:73:ARG:HD3	1.97	0.47
4:UA:328:LEU:HD11	4:UA:337:TYR:CE2	2.49	0.47
4:UA:675:MET:HE3	4:UA:675:MET:HB3	1.60	0.47
6:UC:595:LYS:N	6:UC:595:LYS:HD2	2.29	0.47
7:UD:512:GLU:OE2	7:UD:560:SER:N	2.47	0.47
8:UE:357:VAL:HG13	8:UE:357:VAL:O	2.14	0.47
10:UG:431:ARG:NH2	67:D4:37:G:C4	2.83	0.47
10:UG:546:ILE:H	10:UG:546:ILE:HD12	1.79	0.47
12:UI:425:ASN:HD21	12:UI:463:LYS:HG3	1.77	0.47
15:UL:438:PHE:CZ	15:UL:440:PRO:HA	2.48	0.47
16:UM:631:MET:CE	16:UM:643:PHE:HB3	2.44	0.47
18:UO:40:ASN:OD1	18:UO:41:SER:N	2.41	0.47
18:UO:502:GLN:HA	18:UO:505:GLU:OE2	2.14	0.47
20:UQ:184:GLN:N	20:UQ:184:GLN:OE1	2.47	0.47
20:UQ:376:ALA:HA	20:UQ:379:LEU:HD23	1.96	0.47
22:US:350:MET:HG2	22:US:355:ARG:NH1	2.29	0.47
23:UT:977:PHE:CZ	23:UT:982:HIS:HA	2.49	0.47
23:UT:1269:SER:O	23:UT:1273:LYS:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:1643:LEU:HA	23:UT:1654:VAL:HG11	1.95	0.47
25:UV:523:TYR:HE2	25:UV:582:GLN:HG2	1.80	0.47
25:UV:606:ASN:HD21	25:UV:610:PHE:HE1	1.61	0.47
25:UV:827:ARG:HG2	37:CN:175:LEU:HD11	1.96	0.47
26:UX:65:VAL:HG21	26:UX:86:MET:HE1	1.95	0.47
27:UZ:172:ASP:OD1	27:UZ:175:TYR:HB3	2.15	0.47
28:CD:103:LYS:HG3	47:JP:156:SER:HB2	1.95	0.47
31:CH:266:GLU:OE2	67:D4:167:C:H5"	2.15	0.47
32:CI:135:HIS:O	32:CI:160:TRP:HE3	1.97	0.47
32:CI:172:ARG:HB2	32:CI:177:ILE:HD11	1.96	0.47
35:CL:86:ILE:HD11	35:CL:117:PHE:CD2	2.50	0.47
53:DI:42:ARG:NH1	53:DI:42:ARG:HA	2.30	0.47
56:DN:16:ILE:HB	60:DW:57:ARG:NH2	2.28	0.47
61:DX:87:VAL:HA	61:DX:124:VAL:HG22	1.96	0.47
67:D4:75:C:H2'	67:D4:76:U:H6	1.77	0.47
67:D4:174:U:O4	67:D4:175:A:N6	2.47	0.47
73:EF:37:PHE:O	73:EF:49:ARG:N	2.45	0.47
79:EN:622:GLU:O	79:EN:626:ALA:N	2.40	0.47
2:DA:121:ILE:HD13	2:DA:164:ILE:HD11	1.95	0.47
3:JA:91:MET:HB2	3:JA:95:GLU:OE2	2.15	0.47
3:JA:499:ASN:O	3:JA:503:ALA:N	2.47	0.47
3:JA:541:TYR:HE1	3:JA:637:ARG:HG2	1.79	0.47
1:CB:288:ARG:HE	7:UD:121:THR:HG21	1.79	0.47
5:UB:656:ALA:O	5:UB:660:ILE:HG13	2.14	0.47
6:UC:498:VAL:O	6:UC:502:LYS:HG2	2.12	0.47
8:UE:490:ARG:HD3	18:UO:16:LEU:HD23	1.96	0.47
13:UJ:348:ILE:O	13:UJ:352:THR:HG23	2.15	0.47
13:UJ:364:ASN:HA	13:UJ:367:LEU:HG	1.96	0.47
13:UJ:1567:THR:N	13:UJ:1570:GLU:OE2	2.48	0.47
13:UJ:1688:ASN:OD1	13:UJ:1725:LEU:HD13	2.13	0.47
15:UL:631:PHE:HB3	15:UL:663:LEU:HD21	1.97	0.47
19:UP:199:ILE:HG13	19:UP:200:ARG:N	2.29	0.47
20:UQ:152:ARG:NE	20:UQ:231:PHE:HA	2.29	0.47
20:UQ:255:ASN:O	20:UQ:276:ALA:HB3	2.15	0.47
20:UQ:708:ASP:N	20:UQ:708:ASP:OD1	2.47	0.47
20:UQ:821:ILE:O	20:UQ:825:GLN:HG3	2.14	0.47
21:UR:324:TRP:NE1	21:UR:337:ALA:HB1	2.29	0.47
21:UR:360:VAL:HG22	21:UR:375:VAL:HG22	1.96	0.47
21:UR:496:ARG:O	21:UR:500:MET:HG2	2.15	0.47
22:US:502:ASN:OD1	22:US:503:TYR:N	2.41	0.47
22:US:508:ASN:O	22:US:511:SER:OG	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:1341:GLU:HG3	23:UT:1342:LEU:H	1.79	0.47
23:UT:1852:SER:HB2	26:UX:123:PRO:HG2	1.96	0.47
23:UT:1877:ARG:HB2	23:UT:1917:ILE:HD11	1.97	0.47
24:UU:419:ILE:HG13	24:UU:430:ILE:HG12	1.95	0.47
24:UU:536:LEU:HD22	50:DF:14:PHE:HB2	1.96	0.47
25:UV:237:HIS:CE1	25:UV:241:ILE:HD11	2.49	0.47
25:UV:401:LEU:HD11	25:UV:414:HIS:CE1	2.48	0.47
25:UV:522:LYS:HG2	25:UV:523:TYR:CD1	2.49	0.47
25:UV:1137:ASN:O	25:UV:1141:GLU:OE1	2.33	0.47
25:UV:1147:TYR:HA	25:UV:1150:VAL:HG12	1.96	0.47
25:UV:1214:LEU:HG	25:UV:1216:LYS:HD3	1.96	0.47
25:UV:1221:HIS:HB2	37:CN:20:LEU:HD22	1.96	0.47
27:UZ:120:LYS:NZ	66:D3:1514:U:OP1	2.36	0.47
28:CD:158:TYR:CE1	28:CD:162:LYS:HD3	2.50	0.47
28:CD:223:ILE:HD11	28:CD:226:LYS:HA	1.96	0.47
31:CH:314:GLN:N	62:DY:2:SER:OG	2.47	0.47
31:CH:516:GLY:HA3	31:CH:564:TYR:CE1	2.50	0.47
36:CM:205:VAL:O	36:CM:208:MET:HG2	2.14	0.47
36:CM:339:LEU:HD12	36:CM:350:MET:CG	2.44	0.47
38:JC:55:PHE:HD1	38:JC:82:HIS:NE2	2.11	0.47
38:JC:199:THR:HG22	38:JC:201:THR:H	1.79	0.47
42:JJ:138:GLU:OE1	42:JJ:138:GLU:N	2.48	0.47
58:DQ:39:VAL:HG23	58:DQ:45:ARG:HG3	1.96	0.47
62:DY:52:LYS:O	62:DY:55:VAL:HG12	2.14	0.47
62:DY:60:PHE:HD1	62:DY:71:GLY:HA3	1.79	0.47
65:D2:243:A:H1'	65:D2:271:G:H22	1.79	0.47
1:CA:171:LEU:HB2	1:CA:237:VAL:HG21	1.95	0.47
3:JA:200:VAL:HG13	3:JA:208:LEU:HB2	1.96	0.47
3:JA:393:PRO:O	3:JA:397:VAL:N	2.44	0.47
4:UA:792:ILE:O	4:UA:796:LEU:HD23	2.14	0.47
5:UB:430:LEU:O	5:UB:434:ILE:HG12	2.14	0.47
7:UD:52:SER:HA	7:UD:104:TRP:CE3	2.45	0.47
8:UE:115:ASN:OD1	8:UE:131:LEU:HB2	2.15	0.47
9:UF:138:LYS:HA	9:UF:138:LYS:HE3	1.94	0.47
9:UF:183:TYR:CE1	9:UF:322:LEU:HD12	2.48	0.47
10:UG:246:VAL:HG13	10:UG:248:HIS:CE1	2.49	0.47
13:UJ:491:TYR:CE2	13:UJ:528:ARG:HD3	2.49	0.47
13:UJ:647:GLU:HG2	13:UJ:648:LYS:HD3	1.96	0.47
14:UK:250:ARG:HG3	14:UK:250:ARG:NH2	2.28	0.47
15:UL:336:TYR:OH	15:UL:391:ARG:NH1	2.47	0.47
15:UL:621:VAL:HA	15:UL:631:PHE:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:UM:63:GLU:O	16:UM:81:GLN:N	2.48	0.47
16:UM:241:GLN:OE1	16:UM:266:ILE:HG23	2.13	0.47
16:UM:544:TYR:HD2	16:UM:587:GLN:HB3	1.79	0.47
18:UO:173:THR:HG21	18:UO:218:VAL:N	2.29	0.47
18:UO:431:LEU:HA	18:UO:434:ARG:HG3	1.96	0.47
20:UQ:29:THR:HG23	20:UQ:32:LYS:HG2	1.96	0.47
20:UQ:213:LYS:HG2	20:UQ:216:SER:HB2	1.96	0.47
20:UQ:579:ASN:HD21	65:D2:7:A:H61	1.62	0.47
22:US:188:PHE:O	22:US:191:ILE:HG22	2.14	0.47
23:UT:395:GLU:O	23:UT:398:GLN:HG3	2.14	0.47
23:UT:942:LYS:HG2	23:UT:945:ARG:NH1	2.30	0.47
23:UT:1268:ILE:HG23	23:UT:1288:PHE:HE1	1.80	0.47
23:UT:1684:GLY:O	23:UT:1687:ILE:HG12	2.15	0.47
24:UU:349:HIS:CE1	24:UU:370:SER:HB3	2.49	0.47
25:UV:771:PHE:HA	25:UV:1132:PHE:CE1	2.50	0.47
25:UV:909:TYR:CD1	25:UV:939:ILE:HD13	2.50	0.47
25:UV:1069:LYS:HA	25:UV:1072:VAL:HG12	1.95	0.47
26:UX:115:ILE:HG23	26:UX:116:ALA:H	1.78	0.47
26:UX:155:THR:HB	26:UX:160:LEU:HD23	1.95	0.47
27:UZ:67:PRO:HB2	27:UZ:96:LEU:HD11	1.96	0.47
29:CE:85:SER:N	29:CE:106:ASN:OD1	2.48	0.47
31:CH:221:ILE:HG12	31:CH:236:TYR:CD2	2.49	0.47
35:CL:549:ILE:HD13	35:CL:567:TRP:CG	2.49	0.47
36:CM:9:THR:HB	36:CM:31:ILE:HG22	1.96	0.47
38:JC:250:GLY:HA3	38:JC:268:GLN:O	2.15	0.47
39:JF:192:TYR:O	39:JF:195:LYS:HG2	2.15	0.47
47:JP:280:ALA:HB2	47:JP:311:VAL:HB	1.96	0.47
47:JP:327:LYS:HG2	47:JP:350:HIS:N	2.15	0.47
47:JP:415:ARG:HH22	66:D3:4:C:N4	2.11	0.47
50:DF:172:ILE:O	50:DF:176:THR:HG23	2.14	0.47
52:DH:74:GLN:HG3	52:DH:92:PHE:CE2	2.49	0.47
52:DH:141:ARG:O	52:DH:148:LYS:HA	2.15	0.47
53:DI:11:ARG:HG2	53:DI:17:LYS:HD2	1.96	0.47
53:DI:29:LEU:HD13	53:DI:31:ARG:NE	2.30	0.47
53:DI:168:CYS:HB2	53:DI:184:LEU:HD21	1.96	0.47
60:DW:115:GLU:OE2	60:DW:118:ARG:NH2	2.48	0.47
65:D2:83:U:H1'	65:D2:84:G:C2	2.50	0.47
65:D2:470:U:H2'	65:D2:471:C:H6	1.80	0.47
65:D2:472:A:C2	67:D4:47:G:C2	3.02	0.47
66:D3:395:U:H2'	66:D3:396:G:O4'	2.14	0.47
66:D3:1124:A:H1'	67:D4:1:G:N1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:1221:A:H2'	66:D3:1222:C:C6	2.49	0.47
66:D3:1725:U:H2'	66:D3:1726:G:C8	2.50	0.47
67:D4:78:G:N1	67:D4:330:A:C6	2.82	0.47
67:D4:150:A:H2'	67:D4:150:A:N3	2.30	0.47
3:JA:45:MET:HE3	3:JA:53:LYS:HE3	1.96	0.47
3:JA:91:MET:SD	35:CL:96:SER:HA	2.55	0.47
3:JA:737:TRP:HA	3:JA:740:ASN:HB2	1.97	0.47
3:JA:823:LYS:O	3:JA:870:LYS:HG2	2.15	0.47
4:UA:12:GLY:HA2	4:UA:372:TRP:CH2	2.49	0.47
4:UA:85:LYS:HB2	4:UA:85:LYS:HE3	1.68	0.47
1:CB:228:GLN:HA	1:CB:231:ARG:HD2	1.95	0.47
5:UB:478:ILE:HA	5:UB:481:MET:HG2	1.97	0.47
5:UB:490:PHE:CE1	5:UB:539:ARG:HG2	2.49	0.47
5:UB:576:ILE:O	5:UB:576:ILE:HG22	2.14	0.47
6:UC:576:LEU:HD11	6:UC:580:ARG:HD3	1.96	0.47
7:UD:105:SER:O	7:UD:112:LEU:HA	2.15	0.47
8:UE:118:TRP:HA	8:UE:127:TYR:O	2.14	0.47
9:UF:83:LEU:HD23	9:UF:87:SER:HB3	1.97	0.47
13:UJ:108:LYS:O	13:UJ:114:THR:HG21	2.15	0.47
13:UJ:141:ASN:HD22	13:UJ:209:GLN:HG3	1.79	0.47
13:UJ:523:ILE:O	13:UJ:526:LEU:HG	2.15	0.47
13:UJ:1544:PHE:O	13:UJ:1548:PHE:N	2.36	0.47
13:UJ:1683:HIS:O	13:UJ:1687:LEU:HG	2.14	0.47
15:UL:446:ILE:HG13	15:UL:456:LEU:HD13	1.95	0.47
16:UM:211:LEU:HG	16:UM:225:PHE:HB2	1.96	0.47
18:UO:100:ASP:CG	18:UO:101:ALA:H	2.22	0.47
20:UQ:19:LYS:O	20:UQ:49:ASN:N	2.35	0.47
20:UQ:42:ARG:HH21	20:UQ:42:ARG:HG2	1.79	0.47
20:UQ:335:PRO:HB3	65:D2:86:C:O2	2.14	0.47
20:UQ:598:LYS:HB3	20:UQ:638:PHE:CE2	2.49	0.47
20:UQ:768:TRP:HA	20:UQ:774:PHE:HA	1.96	0.47
21:UR:240:ASP:OD2	21:UR:587:ARG:HG2	2.14	0.47
21:UR:353:ARG:HG3	21:UR:353:ARG:O	2.14	0.47
23:UT:655:ASP:OD1	23:UT:658:VAL:HG22	2.14	0.47
23:UT:736:LEU:O	23:UT:740:ILE:HG12	2.15	0.47
23:UT:1004:VAL:O	23:UT:1008:LEU:HD23	2.15	0.47
23:UT:1119:TYR:CE2	23:UT:1157:ILE:HG13	2.48	0.47
23:UT:1600:THR:O	23:UT:1609:ARG:NH2	2.48	0.47
23:UT:1601:ARG:NH1	23:UT:1603:ASP:HA	2.29	0.47
25:UV:1081:ASN:O	25:UV:1084:THR:OG1	2.25	0.47
25:UV:1108:LEU:HD12	25:UV:1169:ILE:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:1166:ARG:NH2	25:UV:1172:ASN:O	2.48	0.47
26:UX:130:CYS:SG	26:UX:132:HIS:CD2	3.07	0.47
27:UZ:38:ILE:HD13	27:UZ:216:ILE:HD12	1.95	0.47
31:CH:306:THR:OG1	31:CH:316:GLU:O	2.24	0.47
31:CH:456:ASP:HB2	31:CH:459:LEU:HD12	1.96	0.47
32:CI:128:VAL:O	32:CI:132:GLU:HG3	2.15	0.47
34:CK:324:TRP:HE3	34:CK:330:VAL:HG21	1.79	0.47
34:CK:534:ARG:HH22	66:D3:1628:U:P	2.38	0.47
35:CL:932:LEU:O	35:CL:1005:SER:OG	2.20	0.47
36:CM:281:GLU:O	36:CM:284:SER:OG	2.22	0.47
37:CN:218:LYS:NZ	66:D3:1064:G:N7	2.63	0.47
38:JC:54:GLU:H	38:JC:84:TYR:HH	1.60	0.47
38:JC:63:LYS:HE2	38:JC:106:ILE:HB	1.95	0.47
38:JC:185:HIS:HB3	38:JC:234:THR:HG23	1.97	0.47
39:JF:181:SER:HB3	39:JF:184:ALA:HB2	1.96	0.47
39:JF:230:TYR:O	39:JF:232:LEU:HD12	2.14	0.47
45:JN:316:ARG:CD	66:D3:1036:A:H1'	2.45	0.47
50:DF:208:SER:OG	50:DF:211:ILE:HG22	2.15	0.47
54:DJ:65:LYS:H	54:DJ:70:LEU:HD21	1.80	0.47
65:D2:338:A:H5"	65:D2:339:A:OP1	2.14	0.47
65:D2:437:G:H2'	65:D2:438:U:C6	2.49	0.47
66:D3:1134:C:O2'	66:D3:1135:U:H5'	2.15	0.47
67:D4:45:U:H2'	67:D4:46:U:O4'	2.15	0.47
1:CA:212:LYS:HE2	1:CA:212:LYS:HB2	1.80	0.47
2:DA:81:PHE:HE2	2:DA:105:PHE:HE1	1.63	0.47
2:DA:243:LYS:N	25:UV:656:ARG:HE	2.12	0.47
3:JA:3:LYS:HG3	35:CL:372:TYR:HB3	1.96	0.47
3:JA:59:TYR:O	3:JA:108:TYR:N	2.47	0.47
3:JA:75:ASN:O	3:JA:79:LYS:HG2	2.14	0.47
3:JA:842:LEU:HD21	3:JA:921:SER:HA	1.97	0.47
1:CB:238:ASP:HB2	1:CB:262:LYS:HZ3	1.79	0.47
5:UB:440:ASN:ND2	5:UB:442:LEU:HD23	2.28	0.47
7:UD:52:SER:OG	7:UD:53:HIS:N	2.46	0.47
7:UD:79:TRP:CH2	7:UD:87:GLN:HB2	2.50	0.47
7:UD:331:ASN:O	7:UD:768:ALA:HB1	2.14	0.47
7:UD:347:LEU:HD23	7:UD:347:LEU:H	1.80	0.47
7:UD:645:ARG:HH21	7:UD:656:ARG:NH1	2.11	0.47
8:UE:51:LEU:HD22	8:UE:88:TYR:CE1	2.50	0.47
8:UE:536:LEU:HB3	8:UE:540:LEU:HD11	1.97	0.47
9:UF:8:LEU:HB3	10:UG:66:LEU:HD13	1.96	0.47
9:UF:93:GLY:O	9:UF:97:GLN:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UF:360:LEU:HA	9:UF:363:VAL:HG12	1.97	0.47
10:UG:464:LYS:HA	66:D3:-2:A:C2	2.50	0.47
11:UH:655:LEU:HA	11:UH:658:LEU:HD12	1.97	0.47
13:UJ:304:GLN:HE22	13:UJ:346:LYS:N	2.13	0.47
13:UJ:1437:ARG:HA	13:UJ:1440:VAL:HG22	1.96	0.47
13:UJ:1615:ASN:O	13:UJ:1619:ARG:HD2	2.14	0.47
14:UK:45:GLN:O	14:UK:46:SER:C	2.56	0.47
14:UK:246:LYS:NZ	65:D2:233:G:OP1	2.46	0.47
15:UL:38:PRO:HG2	15:UL:54:ILE:HB	1.96	0.47
15:UL:444:LEU:HD22	15:UL:458:ASP:HA	1.96	0.47
15:UL:580:ASP:HB3	15:UL:589:ILE:HD11	1.96	0.47
15:UL:814:MET:O	15:UL:816:GLN:N	2.47	0.47
16:UM:89:HIS:ND1	16:UM:92:THR:HG23	2.30	0.47
16:UM:253:ASP:OD1	16:UM:253:ASP:N	2.47	0.47
16:UM:436:ALA:O	16:UM:459:ASN:N	2.48	0.47
16:UM:590:LEU:HB2	16:UM:602:TRP:NE1	2.29	0.47
16:UM:802:GLN:O	16:UM:805:ILE:HG22	2.15	0.47
16:UM:804:TYR:O	16:UM:807:ASP:HB2	2.15	0.47
18:UO:182:HIS:CE1	18:UO:183:LEU:HG	2.50	0.47
22:US:210:ASP:O	22:US:214:LYS:HG2	2.15	0.47
22:US:386:LEU:O	22:US:389:GLU:O	2.33	0.47
22:US:387:THR:HB	22:US:469:LEU:HD11	1.97	0.47
23:UT:288:ILE:HA	23:UT:291:LEU:HB2	1.96	0.47
23:UT:692:ASP:O	23:UT:696:VAL:HG22	2.15	0.47
23:UT:1154:ALA:HA	23:UT:1157:ILE:HG22	1.96	0.47
23:UT:1273:LYS:HB3	23:UT:1349:PHE:CG	2.50	0.47
23:UT:1367:ALA:O	23:UT:1371:ILE:HG12	2.15	0.47
23:UT:1398:LEU:HA	23:UT:1401:ASN:HD21	1.79	0.47
23:UT:1676:GLU:O	23:UT:1680:THR:HG22	2.14	0.47
23:UT:1987:LEU:HA	23:UT:1990:LEU:HB2	1.97	0.47
24:UU:24:PHE:O	24:UU:657:ARG:NH1	2.46	0.47
24:UU:125:GLY:HA2	29:CE:430:ASP:HA	1.97	0.47
24:UU:242:ARG:NH2	24:UU:281:ARG:HG3	2.26	0.47
24:UU:263:HIS:CD2	24:UU:284:ILE:HD11	2.49	0.47
24:UU:371:LYS:C	24:UU:373:ARG:H	2.23	0.47
24:UU:509:SER:O	24:UU:517:MET:HG2	2.14	0.47
24:UU:544:ALA:HB3	24:UU:562:LEU:HD23	1.97	0.47
25:UV:130:LYS:HD2	25:UV:283:TYR:CZ	2.49	0.47
25:UV:167:PRO:HB3	25:UV:226:HIS:CD2	2.49	0.47
25:UV:549:SER:O	25:UV:553:VAL:HG23	2.15	0.47
25:UV:723:ASN:OD1	25:UV:725:SER:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:738:TYR:HA	25:UV:741:ILE:HG22	1.96	0.47
25:UV:1166:ARG:NE	25:UV:1172:ASN:HB3	2.29	0.47
25:UV:1229:ASP:O	25:UV:1230:MET:HE2	2.15	0.47
27:UZ:155:ARG:HD3	27:UZ:175:TYR:OH	2.14	0.47
27:UZ:191:PRO:C	27:UZ:192:ASN:HD22	2.22	0.47
27:UZ:226:LYS:HD2	27:UZ:229:ARG:HE	1.79	0.47
28:CD:9:PHE:CE2	28:CD:11:GLU:HG3	2.49	0.47
28:CD:139:PHE:C	28:CD:141:GLY:H	2.23	0.47
28:CD:176:GLN:HB3	29:CE:187:TRP:NE1	2.30	0.47
30:CG:16:LEU:HA	30:CG:19:GLN:OE1	2.15	0.47
31:CH:68:LYS:HE2	31:CH:68:LYS:HA	1.96	0.47
31:CH:160:ILE:HG22	31:CH:189:THR:HG22	1.95	0.47
31:CH:316:GLU:OE1	62:DY:8:ARG:NH2	2.31	0.47
32:CI:22:LYS:NZ	65:D2:388:C:OP2	2.36	0.47
33:CJ:141:VAL:HB	33:CJ:153:THR:OG1	2.15	0.47
34:CK:527:ARG:NH1	66:D3:1639:C:O2	2.40	0.47
35:CL:1123:LYS:NZ	66:D3:487:G:P	2.88	0.47
37:CN:135:ASN:O	37:CN:139:ASN:ND2	2.48	0.47
37:CN:176:ASP:O	37:CN:180:LEU:HB2	2.15	0.47
38:JC:62:ILE:HG13	38:JC:332:ALA:HB2	1.97	0.47
39:JF:213:LYS:NZ	39:JF:215:ASN:HB3	2.25	0.47
39:JG:186:VAL:HG23	39:JG:227:LEU:C	2.39	0.47
43:JK:487:ASP:HA	43:JK:490:ILE:HD12	1.96	0.47
46:JO:52:TYR:CZ	46:JO:56:ILE:HG21	2.49	0.47
47:JP:58:PHE:CE2	67:D4:31:G:C4	3.03	0.47
47:JP:75:LYS:NZ	47:JP:356:TYR:O	2.40	0.47
50:DF:130:ILE:H	50:DF:130:ILE:HD12	1.79	0.47
52:DH:29:ASN:HA	52:DH:35:LYS:HZ3	1.78	0.47
52:DH:166:LEU:HD12	52:DH:183:PHE:HB2	1.96	0.47
56:DN:30:SER:O	56:DN:33:VAL:HG12	2.15	0.47
57:DO:37:GLU:CD	66:D3:895:G:H4'	2.40	0.47
58:DQ:60:PHE:HE1	58:DQ:89:LEU:HD13	1.80	0.47
61:DX:92:CYS:HB3	61:DX:132:LEU:HD23	1.96	0.47
62:DY:2:SER:O	62:DY:2:SER:OG	2.32	0.47
62:DY:110:GLN:HA	62:DY:110:GLN:OE1	2.13	0.47
65:D2:8:A:N6	65:D2:9:G:N3	2.63	0.47
65:D2:281:G:C6	67:D4:73:A:C2	3.03	0.47
65:D2:329:A:C5	65:D2:385:A:C6	3.02	0.47
65:D2:341:G:C5	65:D2:342:C:C4	3.03	0.47
65:D2:424:G:H2'	65:D2:425:U:C6	2.50	0.47
65:D2:437:G:C2	65:D2:438:U:C2	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:D2:464:G:N2	67:D4:53:U:O2	2.47	0.47
65:D2:465:G:H2'	65:D2:466:A:C8	2.49	0.47
66:D3:160:C:H2'	66:D3:161:U:O4'	2.14	0.47
66:D3:170:U:N3	66:D3:289:U:O2'	2.25	0.47
66:D3:188:A:N6	66:D3:197:A:H1'	2.29	0.47
66:D3:590:C:H2'	66:D3:591:A:C8	2.50	0.47
66:D3:878:G:H2'	66:D3:879:G:H8	1.80	0.47
66:D3:890:C:H2'	66:D3:891:A:C8	2.49	0.47
66:D3:1440:C:H2'	66:D3:1441:C:C6	2.49	0.47
66:D3:1590:G:C2	66:D3:1591:C:C4	3.02	0.47
66:D3:1688:U:H3	66:D3:1713:G:H22	1.62	0.47
78:EK:723:THR:O	78:EK:726:LEU:CB	2.62	0.47
79:EN:242:LEU:O	79:EN:246:LEU:N	2.47	0.47
2:DA:158:SER:HA	2:DA:161:ILE:HD12	1.97	0.47
2:DA:241:GLY:C	2:DA:242:LYS:HD3	2.40	0.47
2:DA:243:LYS:HG3	25:UV:656:ARG:NE	2.29	0.47
3:JA:38:PRO:HG2	3:JA:94:PHE:HA	1.96	0.47
4:UA:328:LEU:HD11	4:UA:337:TYR:CD2	2.50	0.47
5:UB:637:LEU:O	5:UB:641:GLU:HG2	2.15	0.47
7:UD:565:ARG:HH11	7:UD:567:ASN:H	1.61	0.47
8:UE:255:ILE:HB	8:UE:277:LYS:HB2	1.97	0.47
8:UE:463:ARG:HA	8:UE:466:ARG:NH1	2.29	0.47
11:UH:647:LEU:HB3	12:UI:509:GLN:HE22	1.80	0.47
11:UH:660:LEU:C	11:UH:664:LYS:HZ2	2.23	0.47
12:UI:421:LEU:HD22	12:UI:462:LEU:HD22	1.96	0.47
13:UJ:57:GLU:O	13:UJ:61:GLN:HG2	2.15	0.47
13:UJ:109:TRP:HB2	13:UJ:142:TYR:CE2	2.50	0.47
13:UJ:1579:PHE:HA	13:UJ:1582:LEU:HG	1.96	0.47
13:UJ:1643:ARG:O	13:UJ:1647:ILE:HG12	2.14	0.47
20:UQ:343:ASP:HB3	20:UQ:357:ILE:HG12	1.96	0.47
23:UT:220:GLU:CG	23:UT:268:PRO:HG3	2.45	0.47
23:UT:861:ARG:HB3	23:UT:934:GLN:CD	2.39	0.47
23:UT:1774:LYS:O	23:UT:1778:MET:HG2	2.14	0.47
25:UV:522:LYS:HG2	25:UV:523:TYR:CE1	2.50	0.47
25:UV:864:LEU:O	25:UV:867:ILE:HG22	2.14	0.47
27:UZ:204:ILE:HD12	27:UZ:205:GLN:HE22	1.79	0.47
28:CD:178:ILE:HD12	28:CD:313:ALA:HB3	1.97	0.47
29:CE:308:SER:O	29:CE:311:LYS:HB3	2.15	0.47
30:CF:62:GLU:HA	30:CF:65:LEU:CB	2.41	0.47
31:CH:219:LYS:HE3	31:CH:220:TYR:CZ	2.50	0.47
32:CI:53:ASP:OD2	34:CK:444:LEU:HD13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:245:LEU:HD23	35:CL:245:LEU:H	1.79	0.47
35:CL:616:ASP:OD1	35:CL:620:LYS:HE3	2.15	0.47
36:CM:105:TYR:CE2	36:CM:296:LEU:HA	2.49	0.47
36:CM:155:LYS:O	36:CM:165:GLU:N	2.34	0.47
55:DL:99:ARG:HG2	55:DL:100:TYR:H	1.80	0.47
65:D2:104:A:H61	65:D2:140:U:H3	1.62	0.47
65:D2:290:G:C2	67:D4:64:A:C2	3.03	0.47
66:D3:8:U:C4	66:D3:9:U:C2	3.03	0.47
66:D3:525:A:C6	66:D3:526:A:C5	3.03	0.47
67:D4:96:C:H2'	67:D4:97:C:C6	2.50	0.47
77:EJ:259:ALA:O	77:EJ:264:GLY:N	2.44	0.47
3:JA:120:GLY:O	3:JA:121:MET:HE2	2.14	0.47
3:JA:527:HIS:O	3:JA:530:SER:OG	2.18	0.47
4:UA:515:TYR:CE1	58:DQ:118:ILE:HD11	2.50	0.47
1:CB:258:HIS:HE1	1:CB:297:ARG:HD3	1.80	0.47
8:UE:285:ASP:CG	8:UE:287:ARG:HG3	2.40	0.47
8:UE:479:ILE:HD11	8:UE:483:ARG:NH2	2.29	0.47
13:UJ:255:ILE:HD11	20:UQ:884:MET:CG	2.45	0.47
14:UK:48:LEU:HD23	14:UK:48:LEU:HA	1.67	0.47
15:UL:390:GLN:HG2	15:UL:394:VAL:HG22	1.97	0.47
16:UM:128:VAL:O	16:UM:137:THR:N	2.48	0.47
16:UM:416:ARG:O	16:UM:424:PHE:HA	2.15	0.47
18:UO:428:ARG:HB3	18:UO:432:TYR:CE1	2.50	0.47
23:UT:201:ARG:O	23:UT:250:LYS:NZ	2.39	0.47
23:UT:422:LYS:NZ	23:UT:456:GLU:HG2	2.30	0.47
23:UT:636:ARG:NH1	51:DG:129:VAL:HG13	2.29	0.47
23:UT:673:ARG:HA	23:UT:678:TRP:NE1	2.29	0.47
23:UT:851:HIS:CE1	23:UT:924:TYR:HH	2.33	0.47
23:UT:886:ASP:O	23:UT:890:ASN:ND2	2.48	0.47
23:UT:1003:ILE:O	23:UT:1007:THR:HG23	2.15	0.47
23:UT:1247:LEU:HA	23:UT:1250:ILE:HG22	1.96	0.47
23:UT:1268:ILE:HG23	23:UT:1288:PHE:CE1	2.50	0.47
23:UT:1681:LEU:HD23	23:UT:1686:GLN:O	2.15	0.47
23:UT:1771:SER:N	23:UT:1772:PRO:HD2	2.30	0.47
25:UV:120:HIS:CE1	25:UV:287:LYS:HD2	2.49	0.47
25:UV:184:SER:OG	25:UV:206:LEU:HB3	2.15	0.47
25:UV:232:LEU:HB3	25:UV:296:ILE:HG13	1.96	0.47
25:UV:377:SER:O	25:UV:479:LYS:NZ	2.30	0.47
27:UZ:201:VAL:HG13	27:UZ:215:ASN:ND2	2.30	0.47
28:CD:226:LYS:HD2	28:CD:258:SER:OG	2.15	0.47
28:CD:226:LYS:NZ	28:CD:262:ASP:HB2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CE:359:ILE:HA	29:CE:362:VAL:HG22	1.96	0.47
35:CL:86:ILE:O	35:CL:90:VAL:HG12	2.15	0.47
35:CL:93:MET:HE2	35:CL:224:SER:HA	1.96	0.47
35:CL:243:TYR:CZ	35:CL:276:HIS:HB3	2.50	0.47
35:CL:750:TRP:NE1	35:CL:754:GLN:HE22	2.13	0.47
35:CL:1119:ILE:HG22	44:JM:129:ALA:HB1	1.97	0.47
37:CN:17:PRO:HG2	37:CN:148:HIS:ND1	2.30	0.47
37:CN:88:LEU:HB2	37:CN:125:LEU:HB2	1.97	0.47
37:CN:259:ARG:HG2	56:DN:83:GLU:HG3	1.97	0.47
39:JF:106:LYS:NZ	39:JG:230:TYR:HD1	2.13	0.47
39:JG:227:LEU:HD11	39:JG:232:LEU:HD21	1.97	0.47
46:JO:92:ALA:HB1	57:DO:99:GLN:HG3	1.96	0.47
47:JP:2:LYS:O	47:JP:3:ILE:HD13	2.15	0.47
53:DI:25:ARG:HH22	66:D3:386:G:P	2.38	0.47
65:D2:123:C:OP2	65:D2:124:A:N6	2.48	0.47
65:D2:210:U:H2'	65:D2:211:G:C8	2.49	0.47
66:D3:56:U:H4'	66:D3:57:G:OP1	2.15	0.47
66:D3:96:G:C2	66:D3:97:C:C2	3.03	0.47
66:D3:168:A:H2'	66:D3:169:A:C8	2.49	0.47
66:D3:524:U:N3	66:D3:527:A:OP2	2.43	0.47
66:D3:591:A:C2	66:D3:592:A:C6	3.02	0.47
66:D3:929:A:N6	66:D3:930:A:N1	2.62	0.47
66:D3:1049:U:H3	66:D3:1069:A:H61	1.62	0.47
66:D3:1613:U:C2	66:D3:1614:A:H2	2.33	0.47
69:EB:164:LYS:N	69:EB:185:VAL:O	2.35	0.47
1:CA:261:LEU:HG	1:CA:262:LYS:O	2.15	0.47
3:JA:117:ASN:O	3:JA:141:THR:OG1	2.33	0.47
3:JA:495:THR:HA	3:JA:498:LYS:HE2	1.96	0.47
3:JA:898:ILE:HA	3:JA:901:GLU:HG3	1.97	0.47
1:CB:235:GLY:HA2	29:CE:121:LYS:HD2	1.97	0.47
1:CB:283:GLU:OE2	1:CB:283:GLU:N	2.46	0.47
8:UE:527:HIS:ND1	18:UO:508:LEU:HD23	2.30	0.47
9:UF:42:ARG:HD2	9:UF:52:ASP:OD1	2.15	0.47
10:UG:37:THR:OG1	17:UN:852:GLU:OE2	2.31	0.47
10:UG:184:LEU:HD23	10:UG:184:LEU:HA	1.67	0.47
10:UG:244:ASN:HB3	10:UG:246:VAL:HG12	1.97	0.47
10:UG:388:ASP:HB2	10:UG:403:VAL:O	2.14	0.47
13:UJ:229:GLU:O	13:UJ:232:ASN:N	2.48	0.47
13:UJ:1425:VAL:O	13:UJ:1429:SER:HB3	2.15	0.47
13:UJ:1567:THR:OG1	13:UJ:1570:GLU:OE1	2.26	0.47
14:UK:40:ASP:HA	14:UK:43:ARG:HH11	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UL:55:LYS:HA	15:UL:383:HIS:CE1	2.50	0.47
15:UL:197:ILE:C	16:UM:671:ASN:HD21	2.22	0.47
15:UL:253:LYS:HZ2	66:D3:1741:U:P	2.35	0.47
16:UM:352:LYS:HD3	16:UM:366:PRO:HA	1.96	0.47
16:UM:649:GLU:OE1	16:UM:649:GLU:N	2.29	0.47
18:UO:424:ARG:HB3	18:UO:426:LYS:NZ	2.30	0.47
20:UQ:293:LEU:HD12	20:UQ:324:TRP:CE3	2.50	0.47
20:UQ:335:PRO:C	20:UQ:336:ARG:HD3	2.40	0.47
21:UR:296:GLN:O	21:UR:297:THR:OG1	2.24	0.47
21:UR:433:TRP:HB3	21:UR:435:PHE:CE1	2.50	0.47
22:US:181:THR:OG1	22:US:225:HIS:NE2	2.35	0.47
22:US:225:HIS:HB2	22:US:228:HIS:CE1	2.50	0.47
23:UT:247:LEU:HG	23:UT:248:HIS:H	1.81	0.47
23:UT:481:TRP:CE2	23:UT:485:ILE:HD11	2.50	0.47
23:UT:947:ILE:HG12	66:D3:257:A:H5'	1.97	0.47
23:UT:1463:GLN:HG3	23:UT:1467:LYS:NZ	2.30	0.47
24:UU:62:ASP:O	24:UU:66:LEU:HD23	2.15	0.47
24:UU:222:ALA:HB1	24:UU:254:LEU:HD13	1.98	0.47
24:UU:766:LYS:HB2	24:UU:766:LYS:HE3	1.70	0.47
25:UV:127:PHE:O	25:UV:131:LEU:HG	2.14	0.47
25:UV:529:VAL:CG2	25:UV:613:VAL:HB	2.45	0.47
27:UZ:28:PRO:HA	27:UZ:31:LYS:HE3	1.97	0.47
27:UZ:83:TYR:CG	27:UZ:156:MET:HE1	2.50	0.47
28:CD:222:PHE:CE2	28:CD:240:LEU:HD22	2.50	0.47
29:CE:90:SER:HB3	29:CE:117:TYR:CE2	2.50	0.47
31:CH:438:ILE:HD12	31:CH:442:ILE:HG13	1.97	0.47
34:CK:335:ARG:HH21	34:CK:340:LEU:HD11	1.79	0.47
35:CL:555:MET:HB2	35:CL:558:ILE:HD12	1.97	0.47
35:CL:800:PHE:HB2	35:CL:1022:LEU:HD23	1.97	0.47
36:CM:197:SER:OG	36:CM:229:VAL:HG12	2.15	0.47
38:JC:54:GLU:N	38:JC:84:TYR:OH	2.40	0.47
38:JC:209:PRO:C	38:JC:211:SER:H	2.22	0.47
38:JC:356:LEU:HA	38:JC:359:ILE:HG12	1.97	0.47
39:JF:214:ASP:HA	39:JF:216:PHE:CE2	2.50	0.47
39:JG:193:ILE:HD13	39:JG:196:LEU:HD12	1.96	0.47
49:DE:45:ILE:HB	49:DE:80:THR:OG1	2.15	0.47
58:DQ:98:ASP:O	58:DQ:101:SER:OG	2.32	0.47
66:D3:386:G:C2	66:D3:387:A:H2	2.33	0.47
66:D3:876:G:C2	66:D3:944:A:C6	3.04	0.47
66:D3:1115:U:C2	66:D3:1116:A:C8	3.03	0.47
66:D3:1584:G:O2'	66:D3:1610:G:O6	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JA:202:ASP:HB3	3:JA:206:ASN:OD1	2.15	0.46
3:JA:843:ASP:O	3:JA:846:SER:OG	2.26	0.46
4:UA:843:LYS:O	4:UA:847:ARG:HG2	2.15	0.46
1:CB:293:LEU:HB3	1:CB:298:ILE:HD12	1.96	0.46
5:UB:552:GLN:O	5:UB:555:ARG:HG2	2.15	0.46
7:UD:394:TRP:HA	7:UD:398:THR:O	2.15	0.46
8:UE:181:VAL:HG23	8:UE:182:MET:N	2.30	0.46
9:UF:3:LYS:HG3	65:D2:487:A:H62	1.80	0.46
9:UF:186:VAL:HG21	9:UF:319:TYR:CE2	2.49	0.46
13:UJ:272:LYS:HE3	13:UJ:309:GLN:O	2.14	0.46
15:UL:17:ILE:H	15:UL:360:ASN:CG	2.22	0.46
15:UL:225:GLN:OE1	15:UL:247:ILE:HG23	2.15	0.46
15:UL:487:ARG:HA	15:UL:500:TRP:O	2.15	0.46
15:UL:631:PHE:HE2	15:UL:641:TYR:CD1	2.34	0.46
16:UM:50:ARG:O	16:UM:51:LYS:HD2	2.15	0.46
16:UM:223:TRP:CZ3	16:UM:233:LEU:HG	2.50	0.46
16:UM:584:ILE:HG22	16:UM:589:GLN:H	1.80	0.46
18:UO:79:ARG:NH1	66:D3:1534:G:N7	2.62	0.46
18:UO:219:ILE:HG22	18:UO:227:VAL:HB	1.95	0.46
20:UQ:147:SER:HG	20:UQ:148:GLU:CD	2.22	0.46
20:UQ:255:ASN:OD1	20:UQ:256:THR:N	2.48	0.46
20:UQ:503:ASP:HB3	20:UQ:570:SER:OG	2.14	0.46
20:UQ:682:ASN:HB2	20:UQ:689:ILE:HD11	1.98	0.46
20:UQ:721:ALA:C	20:UQ:722:LEU:HD12	2.40	0.46
21:UR:175:PRO:HG2	21:UR:177:TRP:CD1	2.50	0.46
23:UT:386:LEU:HD22	23:UT:393:PHE:CE2	2.50	0.46
23:UT:480:TYR:HE1	23:UT:518:MET:HA	1.80	0.46
23:UT:1349:PHE:O	23:UT:1352:LEU:HG	2.15	0.46
27:UZ:23:GLN:O	27:UZ:26:GLU:HG3	2.15	0.46
27:UZ:169:GLU:OE1	27:UZ:169:GLU:N	2.48	0.46
28:CD:5:GLU:O	28:CD:20:VAL:HG12	2.15	0.46
30:CF:34:LYS:HA	30:CF:34:LYS:HD2	1.73	0.46
31:CH:160:ILE:HG23	31:CH:542:SER:HB2	1.97	0.46
32:CI:98:GLU:HG3	33:CJ:58:TYR:OH	2.15	0.46
32:CI:151:THR:OG1	34:CK:455:HIS:CD2	2.68	0.46
33:CJ:131:CYS:HB3	33:CJ:136:THR:OG1	2.15	0.46
36:CM:47:ASP:N	36:CM:47:ASP:OD1	2.47	0.46
37:CN:138:TRP:O	37:CN:141:LEU:HG	2.16	0.46
38:JC:171:ARG:NE	43:JK:468:VAL:HA	2.30	0.46
38:JC:207:TRP:HA	38:JC:214:ARG:HA	1.97	0.46
39:JF:168:THR:HA	39:JF:171:LEU:HD13	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:JG:104:ILE:HG13	39:JG:110:LEU:HD22	1.97	0.46
42:JJ:200:ARG:CZ	42:JJ:204:ARG:HD3	2.45	0.46
47:JP:58:PHE:HE1	47:JP:60:GLY:O	1.97	0.46
47:JP:121:PRO:HA	47:JP:192:SER:HB2	1.95	0.46
49:DE:172:PHE:CE2	49:DE:174:LYS:HE3	2.50	0.46
51:DG:58:LYS:HA	51:DG:107:ALA:HB2	1.97	0.46
52:DH:91:ILE:HG21	52:DH:129:LEU:HD12	1.96	0.46
55:DL:57:LYS:NZ	66:D3:327:U:OP1	2.47	0.46
62:DY:18:LEU:HD12	62:DY:20:ARG:CZ	2.45	0.46
62:DY:127:LYS:NZ	66:D3:151:G:OP2	2.35	0.46
65:D2:217:C:H2'	65:D2:218:U:H6	1.79	0.46
66:D3:326:G:H2'	66:D3:327:U:C6	2.50	0.46
66:D3:473:A:H62	66:D3:474:A:N6	2.13	0.46
72:EE:15:GLY:O	72:EE:30:VAL:N	2.41	0.46
1:CA:173:LEU:HD21	1:CA:256:ASN:ND2	2.30	0.46
2:DA:48:VAL:HG21	2:DA:61:LEU:HD11	1.97	0.46
3:JA:112:GLU:O	3:JA:115:LEU:HD23	2.16	0.46
3:JA:484:LYS:HA	3:JA:487:ASN:HD21	1.81	0.46
3:JA:855:ILE:HG21	3:JA:913:PHE:CZ	2.51	0.46
4:UA:119:LEU:HD21	4:UA:161:ILE:HD13	1.98	0.46
4:UA:794:PHE:HB2	24:UU:720:LEU:HD21	1.96	0.46
1:CB:91:HIS:CE1	14:UK:164:ASN:HA	2.47	0.46
3:JB:771:SER:C	3:JB:773:TRP:H	2.23	0.46
5:UB:646:THR:HA	5:UB:649:THR:HG22	1.97	0.46
5:UB:716:LYS:H	39:JG:150:ILE:CG2	2.28	0.46
7:UD:161:ASP:C	7:UD:163:GLY:H	2.23	0.46
7:UD:271:THR:CG2	7:UD:272:LEU:H	2.21	0.46
8:UE:364:THR:HG22	8:UE:365:SER:N	2.30	0.46
10:UG:447:ASN:O	47:JP:37:ARG:NH1	2.48	0.46
11:UH:597:GLN:HA	11:UH:600:LYS:NZ	2.31	0.46
13:UJ:197:ASP:OD1	13:UJ:244:LYS:HD3	2.15	0.46
13:UJ:576:ILE:HG13	13:UJ:579:ARG:HH12	1.79	0.46
13:UJ:1593:TYR:HA	13:UJ:1596:TYR:CD2	2.50	0.46
15:UL:633:CYS:HB3	15:UL:663:LEU:HD22	1.97	0.46
15:UL:761:ALA:HA	15:UL:764:GLU:OE2	2.15	0.46
15:UL:925:ASP:O	15:UL:928:GLU:HG3	2.15	0.46
16:UM:245:SER:OG	16:UM:246:CYS:N	2.48	0.46
16:UM:354:ALA:HA	16:UM:364:ILE:HD13	1.96	0.46
17:UN:294:GLU:HA	17:UN:297:LYS:HZ2	1.80	0.46
19:UP:165:ASN:HA	19:UP:168:LYS:HE2	1.97	0.46
21:UR:304:LEU:HD23	21:UR:371:VAL:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:UR:484:VAL:CG1	21:UR:492:ASN:HB2	2.45	0.46
22:US:277:ILE:HA	22:US:280:ILE:HG22	1.98	0.46
22:US:342:TYR:CE1	22:US:382:LYS:HD2	2.50	0.46
23:UT:74:VAL:HG21	23:UT:80:ILE:HG12	1.96	0.46
23:UT:146:ASN:HB3	23:UT:150:TRP:CZ2	2.50	0.46
23:UT:280:MET:HE3	23:UT:733:VAL:HG11	1.97	0.46
23:UT:1185:LEU:HA	23:UT:1189:LEU:HB2	1.97	0.46
23:UT:1851:GLU:HG2	23:UT:1853:LYS:HB3	1.96	0.46
24:UU:264:LEU:HB2	24:UU:278:LEU:HD21	1.97	0.46
24:UU:885:MET:HE1	24:UU:912:TRP:CD2	2.50	0.46
25:UV:434:LEU:HD12	25:UV:439:HIS:HA	1.97	0.46
27:UZ:220:ILE:HG13	27:UZ:221:ASN:N	2.29	0.46
31:CH:363:ASP:OD2	31:CH:437:ARG:NH1	2.29	0.46
35:CL:161:HIS:NE2	35:CL:916:THR:HG21	2.30	0.46
35:CL:1004:ARG:HH21	35:CL:1006:TRP:HZ2	1.60	0.46
36:CM:159:PRO:HA	36:CM:160:PRO:HA	1.68	0.46
38:JC:101:ASN:HD21	38:JC:104:PHE:HB3	1.80	0.46
39:JF:164:LYS:NZ	39:JF:165:ASN:O	2.39	0.46
42:JJ:115:LYS:HE2	42:JJ:115:LYS:HA	1.96	0.46
45:JN:155:LEU:HD23	45:JN:155:LEU:C	2.40	0.46
47:JP:354:VAL:O	47:JP:355:LYS:HG2	2.15	0.46
49:DE:32:SER:O	49:DE:83:PRO:HG3	2.15	0.46
49:DE:123:LEU:HA	49:DE:160:VAL:O	2.15	0.46
49:DE:128:LYS:HB3	49:DE:140:VAL:HB	1.98	0.46
49:DE:130:GLN:HG3	49:DE:131:LEU:H	1.80	0.46
55:DL:109:VAL:HG13	55:DL:137:PHE:C	2.40	0.46
58:DQ:46:PHE:O	58:DQ:50:GLU:HG2	2.15	0.46
58:DQ:58:ASP:O	58:DQ:61:SER:N	2.49	0.46
60:DW:105:THR:HG23	60:DW:126:LEU:HD11	1.96	0.46
65:D2:90:G:C4	65:D2:162:U:C4	3.03	0.46
65:D2:101:G:C2	65:D2:103:G:C4	3.03	0.46
65:D2:223:C:H2'	65:D2:224:G:C8	2.50	0.46
65:D2:286:U:H3	67:D4:67:G:H1	1.62	0.46
66:D3:42:G:OP2	66:D3:438:A:N6	2.45	0.46
66:D3:52:U:H2'	66:D3:53:G:C8	2.45	0.46
66:D3:292:U:H2'	66:D3:293:U:C6	2.49	0.46
66:D3:521:A:H2'	66:D3:522:U:O4'	2.15	0.46
66:D3:541:A:H4'	66:D3:544:A:C2	2.50	0.46
66:D3:549:G:N2	66:D3:550:A:C4	2.83	0.46
66:D3:904:G:C6	66:D3:905:A:C5	3.03	0.46
66:D3:929:A:N6	66:D3:930:A:C6	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:226:HIS:HB3	1:CA:229:LYS:HB2	1.96	0.46
3:JA:825:LEU:HD21	3:JA:923:TYR:CE2	2.49	0.46
4:UA:370:LYS:NZ	4:UA:379:CYS:SG	2.67	0.46
4:UA:516:SER:HB2	4:UA:534:THR:HB	1.97	0.46
1:CB:297:ARG:CZ	1:CB:323:SER:HA	2.45	0.46
5:UB:659:GLU:HA	5:UB:662:LEU:HG	1.97	0.46
7:UD:46:ILE:HD12	7:UD:46:ILE:H	1.80	0.46
7:UD:220:GLU:OE1	7:UD:220:GLU:N	2.32	0.46
7:UD:326:ARG:CD	7:UD:328:LEU:HD11	2.45	0.46
7:UD:571:THR:CG2	7:UD:632:ASN:HB3	2.45	0.46
7:UD:626:TRP:CH2	7:UD:657:ILE:HD11	2.48	0.46
9:UF:146:ILE:HA	9:UF:146:ILE:HD12	1.81	0.46
9:UF:155:TYR:HA	9:UF:159:ALA:HA	1.96	0.46
10:UG:74:LEU:HD12	10:UG:404:PRO:HG2	1.96	0.46
10:UG:122:GLY:HA2	10:UG:385:PRO:HG2	1.97	0.46
11:UH:596:LYS:HA	11:UH:599:MET:HE2	1.98	0.46
13:UJ:238:LEU:HA	13:UJ:241:ILE:HG22	1.96	0.46
13:UJ:257:ALA:HA	13:UJ:260:ILE:HG22	1.98	0.46
13:UJ:611:ILE:HD12	13:UJ:612:PRO:HD2	1.97	0.46
15:UL:183:ASP:OD1	15:UL:183:ASP:N	2.48	0.46
15:UL:845:LEU:HD12	15:UL:848:SER:OG	2.15	0.46
17:UN:890:VAL:HG23	47:JP:358:MET:HB3	1.96	0.46
18:UO:373:ILE:HG23	21:UR:288:LEU:CD1	2.45	0.46
21:UR:401:GLU:HG3	21:UR:402:GLY:N	2.30	0.46
22:US:488:PHE:O	39:JG:24:VAL:HG11	2.16	0.46
22:US:504:ASP:HA	22:US:507:LEU:HD12	1.98	0.46
23:UT:173:THR:O	23:UT:176:LEU:HG	2.15	0.46
23:UT:1208:MET:SD	23:UT:1210:PHE:HB3	2.55	0.46
23:UT:1949:PRO:HB2	47:JP:252:ASN:ND2	2.31	0.46
24:UU:58:PHE:CE2	24:UU:60:ILE:HD11	2.51	0.46
24:UU:367:LEU:HD11	24:UU:419:ILE:HD12	1.97	0.46
24:UU:412:PRO:HG2	24:UU:437:GLU:HG3	1.97	0.46
24:UU:414:ILE:HG12	24:UU:434:HIS:CE1	2.50	0.46
24:UU:437:GLU:HA	24:UU:437:GLU:OE2	2.14	0.46
25:UV:376:SER:O	25:UV:387:GLY:N	2.49	0.46
25:UV:391:PHE:O	25:UV:395:ILE:HG12	2.15	0.46
25:UV:529:VAL:O	25:UV:612:PHE:HB2	2.16	0.46
25:UV:1098:PHE:CZ	25:UV:1184:GLY:HA3	2.51	0.46
25:UV:1165:SER:OG	25:UV:1166:ARG:N	2.48	0.46
29:CE:361:ARG:NH1	67:D4:83:A:OP2	2.48	0.46
31:CH:334:GLU:OE1	31:CH:352:PRO:HG3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CH:492:TRP:HD1	31:CH:556:VAL:HG21	1.80	0.46
33:CJ:162:THR:HG21	33:CJ:266:LEU:N	2.30	0.46
35:CL:874:TYR:OH	66:D3:577:G:H3'	2.15	0.46
35:CL:980:LEU:HD23	35:CL:987:TYR:HA	1.96	0.46
37:CN:42:HIS:CD2	37:CN:125:LEU:HD11	2.50	0.46
38:JC:55:PHE:HA	38:JC:82:HIS:HE1	1.80	0.46
38:JC:254:ILE:HD13	38:JC:264:ILE:HB	1.97	0.46
42:JJ:139:LEU:HD23	42:JJ:139:LEU:H	1.80	0.46
42:JJ:190:VAL:HG21	42:JJ:251:ILE:CD1	2.45	0.46
47:JP:405:ARG:HG2	47:JP:405:ARG:O	2.16	0.46
50:DF:49:GLU:OE1	50:DF:50:GLU:HG2	2.15	0.46
52:DH:47:ARG:NH1	66:D3:642:G:O3'	2.49	0.46
55:DL:78:THR:HG22	55:DL:84:ILE:HD12	1.96	0.46
65:D2:263:C:H2'	65:D2:264:C:H6	1.81	0.46
66:D3:84:A:H2'	66:D3:85:A:O4'	2.15	0.46
66:D3:417:A:H4'	66:D3:418:G:O5'	2.14	0.46
66:D3:1502:G:C2	66:D3:1506:G:C6	3.04	0.46
66:D3:1648:A:H2'	66:D3:1649:G:C8	2.50	0.46
77:EJ:34:ASN:N	77:EJ:104:LYS:O	2.48	0.46
1:CA:253:ILE:HA	1:CA:253:ILE:HD13	1.77	0.46
2:DA:23:PRO:O	2:DA:27:LYS:HG2	2.15	0.46
2:DA:133:TYR:CZ	2:DA:221:PRO:HD2	2.51	0.46
3:JA:195:ASN:HB3	3:JA:198:CYS:SG	2.56	0.46
3:JA:755:THR:OG1	3:JA:757:GLU:HG2	2.15	0.46
4:UA:792:ILE:HG23	4:UA:793:GLU:N	2.31	0.46
1:CB:271:ILE:O	1:CB:313:HIS:HA	2.16	0.46
7:UD:68:ALA:HB2	7:UD:104:TRP:CZ2	2.50	0.46
7:UD:145:TRP:CD1	7:UD:161:ASP:HB2	2.50	0.46
7:UD:595:ASN:N	7:UD:610:VAL:O	2.49	0.46
7:UD:769:PHE:HD1	19:UP:211:LEU:HD12	1.79	0.46
7:UD:773:LYS:HZ3	65:D2:83:U:H3	1.62	0.46
8:UE:120:ILE:HG21	8:UE:148:LEU:HD22	1.97	0.46
8:UE:356:TYR:CZ	20:UQ:475:SER:HB3	2.50	0.46
9:UF:59:TYR:O	9:UF:63:VAL:HG23	2.16	0.46
10:UG:111:PHE:HZ	10:UG:149:PHE:CE1	2.33	0.46
10:UG:321:ASN:ND2	10:UG:379:GLU:O	2.49	0.46
13:UJ:683:SER:OG	13:UJ:684:TYR:N	2.49	0.46
13:UJ:689:GLU:HA	13:UJ:692:ILE:HD12	1.96	0.46
13:UJ:1664:LYS:C	13:UJ:1668:LYS:HZ2	2.23	0.46
16:UM:194:ARG:NE	16:UM:216:ARG:HH11	2.13	0.46
18:UO:30:TYR:HD2	18:UO:332:LYS:HB2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:UO:493:HIS:CE1	18:UO:497:LYS:HE2	2.50	0.46
21:UR:150:TYR:CD2	65:D2:313:A:C5	3.03	0.46
23:UT:122:LEU:H	23:UT:122:LEU:HD12	1.80	0.46
23:UT:394:LEU:HD11	23:UT:435:PHE:CB	2.46	0.46
23:UT:403:LEU:HD12	23:UT:404:SER:HB3	1.97	0.46
23:UT:777:GLN:O	23:UT:781:VAL:HG13	2.15	0.46
23:UT:1386:GLU:HA	23:UT:1389:LYS:HG2	1.97	0.46
23:UT:1654:VAL:O	23:UT:1658:LEU:HD23	2.15	0.46
24:UU:86:HIS:N	24:UU:89:TYR:O	2.48	0.46
24:UU:378:PHE:HD1	24:UU:386:SER:HB2	1.80	0.46
27:UZ:90:ASP:C	27:UZ:92:HIS:H	2.23	0.46
28:CD:321:SER:OG	28:CD:322:LEU:N	2.49	0.46
28:CD:392:TYR:CE2	30:CG:66:HIS:HB2	2.50	0.46
29:CE:70:SER:HA	29:CE:73:GLU:OE2	2.15	0.46
29:CE:295:VAL:O	29:CE:299:LEU:HD23	2.16	0.46
30:CG:57:ASP:OD2	30:CG:83:SER:HA	2.16	0.46
31:CH:457:GLU:OE1	31:CH:460:ARG:NH1	2.48	0.46
35:CL:125:LEU:HD22	35:CL:912:ARG:HD3	1.98	0.46
35:CL:833:ARG:CZ	35:CL:834:TRP:NE1	2.79	0.46
36:CM:289:VAL:O	36:CM:317:GLN:NE2	2.44	0.46
38:JC:4:LYS:HD2	38:JC:4:LYS:HA	1.75	0.46
38:JC:53:PHE:HD1	38:JC:84:TYR:HE2	1.63	0.46
38:JC:352:TRP:CD1	38:JC:352:TRP:H	2.33	0.46
47:JP:270:ASN:HD21	47:JP:273:GLU:HB2	1.80	0.46
47:JP:282:GLU:C	47:JP:284:HIS:H	2.22	0.46
51:DG:28:PHE:CE1	51:DG:102:VAL:HG22	2.51	0.46
51:DG:98:ARG:HH21	51:DG:99:GLY:H	1.63	0.46
52:DH:114:ARG:NH1	66:D3:860:U:O2	2.49	0.46
52:DH:119:THR:OG1	52:DH:120:ALA:N	2.47	0.46
56:DN:55:ARG:O	63:Db:47:PHE:HB2	2.15	0.46
62:DY:59:GLY:HA2	66:D3:523:G:H5”	1.96	0.46
63:Db:8:LEU:O	63:Db:10:PRO:HD3	2.15	0.46
65:D2:349:G:N2	65:D2:350:A:H1’	2.30	0.46
66:D3:1069:A:H2’	66:D3:1070:C:C6	2.50	0.46
79:EN:699:ALA:N	79:EN:718:ILE:O	2.48	0.46
1:CA:249:GLN:O	1:CA:252:ILE:HG22	2.15	0.46
2:DA:161:ILE:HG22	2:DA:165:ARG:NH1	2.31	0.46
3:JA:612:ASP:O	3:JA:616:TRP:CB	2.58	0.46
1:CB:303:GLN:HA	1:CB:315:ILE:O	2.16	0.46
7:UD:757:ARG:HG2	7:UD:759:PRO:CD	2.44	0.46
8:UE:11:ASP:HB3	8:UE:65:TRP:CE3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UF:14:GLU:OE1	9:UF:15:MET:HG3	2.15	0.46
11:UH:315:SER:N	11:UH:320:LEU:O	2.39	0.46
13:UJ:272:LYS:HZ2	13:UJ:311:ASN:HA	1.80	0.46
13:UJ:418:CYS:O	13:UJ:421:SER:OG	2.23	0.46
13:UJ:585:ILE:HD13	13:UJ:588:LEU:HD12	1.97	0.46
13:UJ:1662:ILE:HA	13:UJ:1665:TYR:CD2	2.49	0.46
14:UK:100:LYS:HE3	35:CL:1094:TYR:CE1	2.50	0.46
14:UK:249:LYS:HE3	30:CF:31:ARG:HH11	1.81	0.46
15:UL:17:ILE:HD11	15:UL:388:GLN:HG2	1.96	0.46
15:UL:98:TYR:HB2	15:UL:102:VAL:CG2	2.45	0.46
15:UL:189:TRP:CD1	15:UL:196:CYS:HA	2.51	0.46
15:UL:212:VAL:HG22	15:UL:217:LEU:HD13	1.97	0.46
15:UL:532:ASP:HB3	15:UL:550:LEU:HD11	1.96	0.46
16:UM:154:GLY:HA3	16:UM:161:TRP:HD1	1.81	0.46
16:UM:456:THR:HG22	16:UM:464:LYS:HG2	1.97	0.46
16:UM:585:ASN:ND2	16:UM:630:ASP:OD1	2.48	0.46
17:UN:849:PHE:CZ	66:D3:-4:A:C5	3.03	0.46
18:UO:65:ILE:O	18:UO:74:ILE:HG22	2.15	0.46
18:UO:329:ILE:HG13	18:UO:329:ILE:O	2.16	0.46
20:UQ:122:LYS:O	20:UQ:122:LYS:HD3	2.16	0.46
21:UR:298:CYS:HA	21:UR:313:PHE:O	2.16	0.46
22:US:385:ARG:O	22:US:388:LEU:HB3	2.15	0.46
23:UT:125:TYR:O	23:UT:129:ILE:HG12	2.15	0.46
23:UT:618:LEU:HD21	23:UT:649:PHE:N	2.30	0.46
24:UU:499:LYS:NZ	50:DF:15:GLU:HB2	2.31	0.46
25:UV:124:VAL:HG11	25:UV:290:PHE:CD2	2.50	0.46
25:UV:126:LYS:HG2	25:UV:283:TYR:CE1	2.50	0.46
25:UV:1169:ILE:HD11	25:UV:1178:ASP:HA	1.98	0.46
33:CJ:226:ASN:O	33:CJ:227:ARG:HD3	2.16	0.46
33:CJ:229:ASP:HB2	33:CJ:288:ASP:OD1	2.15	0.46
35:CL:88:SER:OG	35:CL:214:ARG:HA	2.16	0.46
35:CL:800:PHE:HB2	35:CL:1022:LEU:CD2	2.46	0.46
38:JC:72:MET:SD	38:JC:83:VAL:HG22	2.56	0.46
38:JC:295:ARG:HD2	38:JC:314:SER:C	2.41	0.46
39:JF:33:SER:HB3	39:JF:113:TYR:OH	2.16	0.46
39:JF:91:ILE:HD13	39:JF:94:GLN:NE2	2.26	0.46
39:JG:54:LYS:O	39:JG:55:ILE:HD13	2.16	0.46
42:JJ:216:ILE:O	42:JJ:220:THR:HG22	2.15	0.46
47:JP:270:ASN:HA	47:JP:313:PHE:CD2	2.49	0.46
47:JP:276:ASN:HB3	47:JP:288:TYR:HE1	1.79	0.46
49:DE:180:LEU:HD13	49:DE:231:GLN:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DF:82:PHE:HD2	64:Dc:49:ARG:NH1	2.14	0.46
50:DF:206:SER:O	50:DF:212:LYS:NZ	2.48	0.46
51:DG:74:LYS:HD2	51:DG:96:SER:HB3	1.98	0.46
51:DG:187:LYS:HZ2	66:D3:141:U:H5	1.61	0.46
52:DH:47:ARG:HD2	52:DH:61:PHE:HE2	1.80	0.46
55:DL:12:ALA:C	55:DL:14:GLN:HE21	2.21	0.46
56:DN:14:SER:HB2	66:D3:959:U:H5"	1.96	0.46
57:DO:37:GLU:OE1	66:D3:895:G:H4'	2.16	0.46
65:D2:292:A:C5	65:D2:293:U:N3	2.82	0.46
65:D2:471:C:H2'	65:D2:472:A:C8	2.51	0.46
66:D3:647:G:H1	66:D3:687:G:N2	2.12	0.46
66:D3:1155:G:C2	66:D3:1156:C:C2	3.03	0.46
66:D3:1509:C:H2'	66:D3:1510:U:O4'	2.16	0.46
66:D3:1541:G:H22	66:D3:1569:A:N6	2.14	0.46
78:EK:140:ASP:C	78:EK:142:HIS:H	2.23	0.46
1:CA:228:GLN:HA	1:CA:231:ARG:HH11	1.80	0.46
2:DA:212:VAL:HG13	2:DA:212:VAL:O	2.16	0.46
3:JA:16:ASN:ND2	3:JA:218:PRO:HA	2.27	0.46
3:JA:651:SER:O	3:JA:652:ARG:C	2.59	0.46
3:JA:763:LEU:HD12	3:JA:764:ASN:H	1.81	0.46
3:JA:893:LYS:HD2	3:JA:898:ILE:HG22	1.98	0.46
1:CB:225:ARG:O	1:CB:227:PRO:HD3	2.16	0.46
3:JB:515:LEU:HA	3:JB:567:LEU:HA	1.96	0.46
5:UB:519:THR:OG1	5:UB:520:PRO:HD3	2.15	0.46
5:UB:604:VAL:HG22	5:UB:606:PHE:H	1.81	0.46
5:UB:658:ASN:O	5:UB:662:LEU:HG	2.15	0.46
10:UG:150:LEU:HD22	10:UG:154:CYS:SG	2.56	0.46
10:UG:318:PRO:O	10:UG:334:ARG:HB2	2.16	0.46
11:UH:71:SER:HA	11:UH:77:ALA:HA	1.97	0.46
11:UH:185:SER:HA	11:UH:201:PHE:HA	1.98	0.46
13:UJ:301:LYS:O	13:UJ:301:LYS:HD2	2.15	0.46
13:UJ:399:GLN:H	13:UJ:399:GLN:CD	2.24	0.46
16:UM:619:ARG:HD3	16:UM:620:LEU:H	1.80	0.46
18:UO:5:ARG:NH2	18:UO:393:ASN:HD21	2.14	0.46
18:UO:5:ARG:CA	20:UQ:336:ARG:HH22	2.20	0.46
18:UO:368:GLY:HA3	21:UR:289:HIS:NE2	2.31	0.46
20:UQ:318:GLU:O	20:UQ:320:VAL:HG12	2.15	0.46
20:UQ:346:VAL:C	20:UQ:347:LEU:HD22	2.41	0.46
20:UQ:875:MET:SD	20:UQ:875:MET:N	2.88	0.46
21:UR:216:TYR:OH	24:UU:247:PRO:HD2	2.15	0.46
21:UR:237:ARG:HG3	21:UR:589:TRP:NE1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:99:ASP:O	23:UT:102:SER:OG	2.23	0.46
23:UT:445:LEU:O	23:UT:449:ARG:NE	2.45	0.46
23:UT:559:ASN:HA	23:UT:562:VAL:HG12	1.98	0.46
23:UT:863:THR:C	23:UT:867:LYS:HZ3	2.23	0.46
23:UT:1899:LEU:O	23:UT:1902:SER:OG	2.28	0.46
24:UU:187:ASN:HA	24:UU:205:PHE:HE1	1.81	0.46
25:UV:273:SER:OG	25:UV:274:LYS:N	2.49	0.46
25:UV:484:SER:HA	25:UV:487:ILE:HG22	1.98	0.46
25:UV:936:LEU:HA	25:UV:939:ILE:HG22	1.98	0.46
28:CD:262:ASP:OD1	28:CD:263:ILE:N	2.48	0.46
29:CE:48:SER:HB2	29:CE:75:LEU:HD11	1.96	0.46
29:CE:313:PRO:O	29:CE:316:THR:OG1	2.30	0.46
31:CH:190:VAL:HG12	31:CH:196:LEU:HD13	1.98	0.46
35:CL:619:GLU:HG2	35:CL:620:LYS:N	2.31	0.46
35:CL:996:LEU:HD11	66:D3:1490:C:H4’	1.97	0.46
35:CL:1034:LEU:H	35:CL:1037:GLN:NE2	2.13	0.46
37:CN:41:ARG:NH2	37:CN:135:ASN:HA	2.31	0.46
38:JC:192:ASN:O	38:JC:194:LEU:N	2.48	0.46
47:JP:296:ARG:HH11	47:JP:458:LYS:HE2	1.80	0.46
51:DG:27:PHE:CE1	51:DG:36:VAL:HG11	2.51	0.46
52:DH:85:PHE:CD1	52:DH:88:ARG:HB2	2.51	0.46
52:DH:158:ASP:O	52:DH:162:ILE:HG12	2.16	0.46
55:DL:99:ARG:HB3	55:DL:99:ARG:NH1	2.31	0.46
62:DY:110:GLN:HB3	62:DY:114:ARG:HH12	1.81	0.46
65:D2:101:G:C4	65:D2:103:G:C2	3.03	0.46
65:D2:246:G:N2	65:D2:268:G:C4	2.84	0.46
65:D2:324:U:H2’	65:D2:327:A:H8	1.77	0.46
65:D2:381:G:H5’	65:D2:382:U:OP2	2.15	0.46
66:D3:160:C:C4	66:D3:161:U:C4	3.04	0.46
66:D3:264:G:H5”	66:D3:265:A:H5”	1.97	0.46
66:D3:1689:A:H2’	66:D3:1690:G:C8	2.51	0.46
71:ED:298:GLY:N	71:ED:331:ILE:O	2.39	0.46
79:EN:153:PHE:O	79:EN:157:ALA:N	2.49	0.46
79:EN:864:LYS:O	79:EN:868:ARG:N	2.38	0.46
3:JA:12:SER:HB2	3:JA:218:PRO:HB3	1.96	0.46
3:JA:73:ARG:O	3:JA:77:ILE:HG22	2.16	0.46
3:JA:113:LYS:NZ	66:D3:417:A:OP2	2.41	0.46
3:JA:114:ILE:O	3:JA:114:ILE:HG22	2.15	0.46
4:UA:593:VAL:HG12	4:UA:603:LEU:HD13	1.97	0.46
1:CB:230:TYR:CD1	1:CB:234:ILE:HD12	2.47	0.46
5:UB:396:LEU:O	5:UB:399:HIS:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:UB:548:ARG:CZ	5:UB:642:SER:HB3	2.45	0.46
5:UB:717:TYR:OH	39:JG:136:ARG:HD3	2.15	0.46
7:UD:119:GLY:HA3	19:UP:194:LYS:HB2	1.96	0.46
7:UD:242:TRP:CD1	7:UD:282:ASP:HB2	2.51	0.46
7:UD:423:LYS:HE2	19:UP:167:ARG:HD3	1.98	0.46
7:UD:545:ARG:HB3	7:UD:549:VAL:CG1	2.46	0.46
8:UE:514:VAL:CG1	18:UO:511:LEU:HD12	2.45	0.46
9:UF:92:ILE:HG21	9:UF:116:TYR:CE1	2.51	0.46
10:UG:143:GLN:NE2	65:D2:472:A:OP1	2.49	0.46
10:UG:217:HIS:ND1	10:UG:218:ASP:O	2.47	0.46
11:UH:596:LYS:HD3	11:UH:600:LYS:HZ3	1.80	0.46
13:UJ:308:GLY:N	13:UJ:311:ASN:OD1	2.48	0.46
14:UK:12:GLN:HG3	14:UK:12:GLN:O	2.16	0.46
15:UL:901:ASN:HD21	16:UM:761:ARG:CA	2.29	0.46
16:UM:532:HIS:CE1	16:UM:558:LYS:HE2	2.51	0.46
17:UN:298:TRP:O	17:UN:301:ILE:HG22	2.15	0.46
17:UN:306:ARG:HH12	66:D3:-5:G:P	2.33	0.46
17:UN:306:ARG:HH22	66:D3:-5:G:P	2.38	0.46
17:UN:835:VAL:HG12	65:D2:376:U:OP1	2.16	0.46
18:UO:63:VAL:HG23	18:UO:80:PHE:HE2	1.81	0.46
18:UO:227:VAL:CG1	18:UO:258:LEU:HD21	2.46	0.46
18:UO:454:ARG:NH1	65:D2:102:A:C6	2.82	0.46
20:UQ:433:ARG:HE	65:D2:4:C:P	2.39	0.46
20:UQ:769:ASN:OD1	20:UQ:770:TYR:N	2.48	0.46
21:UR:15:PRO:HB2	21:UR:20:GLN:NE2	2.31	0.46
21:UR:181:GLU:HG2	21:UR:182:SER:N	2.30	0.46
21:UR:520:ASN:ND2	21:UR:567:SER:HA	2.30	0.46
22:US:274:TYR:O	22:US:278:LEU:HD23	2.15	0.46
22:US:426:PHE:CZ	39:JG:250:ASN:HB3	2.50	0.46
23:UT:145:SER:HA	23:UT:148:PHE:HD1	1.78	0.46
23:UT:414:LEU:HD21	23:UT:447:LYS:HB3	1.98	0.46
23:UT:1143:LYS:NZ	23:UT:1146:VAL:HG23	2.30	0.46
23:UT:1208:MET:HE1	23:UT:1210:PHE:HB3	1.97	0.46
25:UV:808:LEU:HA	25:UV:825:PHE:HZ	1.81	0.46
29:CE:339:TYR:CE1	29:CE:357:GLY:HA2	2.49	0.46
29:CE:427:TYR:CG	29:CE:428:ASN:N	2.84	0.46
30:CG:94:SER:O	30:CG:95:ARG:NE	2.49	0.46
31:CH:419:ASN:HD21	31:CH:421:ASN:ND2	2.13	0.46
34:CK:343:GLU:CD	34:CK:344:GLU:N	2.72	0.46
34:CK:474:ILE:HG23	34:CK:485:SER:O	2.14	0.46
35:CL:1024:LYS:HG3	35:CL:1025:GLU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:1118:THR:HG1	65:D2:445:U:HO2'	1.62	0.46
36:CM:271:LEU:O	36:CM:274:LYS:HB3	2.15	0.46
36:CM:291:ARG:HA	36:CM:294:LEU:HG	1.97	0.46
39:JF:64:LYS:HD2	39:JF:64:LYS:HA	1.78	0.46
39:JG:179:THR:OG1	39:JG:221:VAL:HG11	2.15	0.46
42:JJ:256:PRO:O	42:JJ:260:TYR:HD1	1.99	0.46
47:JP:311:VAL:HG23	47:JP:322:THR:HG22	1.97	0.46
49:DE:59:ARG:HH11	49:DE:59:ARG:HG3	1.81	0.46
50:DF:46:TRP:CE2	50:DF:129:PRO:HG3	2.51	0.46
52:DH:5:GLN:NE2	52:DH:21:ALA:HB3	2.30	0.46
52:DH:166:LEU:HD12	52:DH:183:PHE:CB	2.45	0.46
53:DI:52:ASN:OD1	53:DI:53:LYS:N	2.49	0.46
56:DN:121:ARG:HH22	66:D3:868:G:P	2.39	0.46
58:DQ:66:ARG:NH1	58:DQ:68:ARG:HH21	2.14	0.46
60:DW:76:SER:HB3	60:DW:77:PRO:HD3	1.98	0.46
61:DX:104:LEU:HD23	61:DX:124:VAL:HA	1.97	0.46
62:DY:93:ARG:HH21	66:D3:526:A:P	2.34	0.46
65:D2:360:C:H2'	65:D2:361:G:H8	1.80	0.46
66:D3:550:A:C6	66:D3:551:G:C8	3.04	0.46
66:D3:885:G:O5'	66:D3:885:G:H8	1.99	0.46
66:D3:1038:U:O2'	66:D3:1039:A:O4'	2.34	0.46
66:D3:1150:G:H2'	66:D3:1151:A:C8	2.51	0.46
67:D4:67:G:H2'	67:D4:68:A:C8	2.49	0.46
67:D4:256:G:H2'	67:D4:256:G:OP2	2.16	0.46
71:ED:387:ASP:O	71:ED:391:ARG:N	2.49	0.46
75:EH:231:PHE:O	75:EH:235:LEU:N	2.35	0.46
1:CA:228:GLN:HB3	28:CD:102:ASP:OD1	2.16	0.46
4:UA:331:GLU:OE2	4:UA:333:GLN:HB2	2.16	0.46
4:UA:520:ALA:HB3	4:UA:533:SER:HB3	1.97	0.46
1:CB:145:ASN:ND2	1:CB:148:ARG:HG2	2.30	0.46
1:CB:202:ARG:HA	1:CB:205:ARG:HE	1.79	0.46
1:CB:294:ARG:HE	19:UP:181:LEU:CD2	2.29	0.46
5:UB:512:ASP:OD1	5:UB:512:ASP:N	2.48	0.46
5:UB:548:ARG:O	5:UB:551:SER:OG	2.26	0.46
7:UD:625:GLU:O	7:UD:629:LEU:HG	2.16	0.46
8:UE:10:TYR:HB3	8:UE:14:GLY:HA2	1.98	0.46
8:UE:79:GLY:HA2	8:UE:85:ILE:HD13	1.98	0.46
10:UG:274:ARG:HG2	65:D2:322:A:C2	2.51	0.46
12:UI:454:LEU:HA	12:UI:457:LYS:HG2	1.97	0.46
13:UJ:25:ARG:HH11	47:JP:16:VAL:HA	1.81	0.46
13:UJ:68:ILE:O	13:UJ:71:ARG:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:87:THR:O	13:UJ:91:ILE:HG12	2.15	0.46
13:UJ:98:ILE:HD13	13:UJ:131:ASN:HD22	1.81	0.46
13:UJ:729:LYS:O	13:UJ:732:PHE:N	2.47	0.46
13:UJ:801:ILE:O	13:UJ:805:ILE:HG12	2.15	0.46
13:UJ:1352:LEU:HA	13:UJ:1355:ILE:HG12	1.96	0.46
13:UJ:1501:PHE:HA	13:UJ:1504:LEU:HG	1.98	0.46
14:UK:11:LYS:HD3	14:UK:13:HIS:HD2	1.81	0.46
15:UL:339:LYS:HD2	15:UL:339:LYS:HA	1.72	0.46
15:UL:874:GLU:OE1	15:UL:874:GLU:N	2.48	0.46
16:UM:111:ASP:HB2	16:UM:116:LEU:HG	1.97	0.46
16:UM:403:ILE:CG1	16:UM:415:TRP:HB2	2.45	0.46
18:UO:438:THR:O	18:UO:441:PRO:HD2	2.16	0.46
21:UR:237:ARG:O	21:UR:238:LEU:HD12	2.16	0.46
23:UT:229:TYR:OH	23:UT:273:SER:OG	2.20	0.46
23:UT:1653:ALA:O	23:UT:1657:THR:HG23	2.16	0.46
24:UU:53:CYS:SG	24:UU:80:ILE:HB	2.56	0.46
24:UU:125:GLY:HA3	29:CE:433:THR:CB	2.46	0.46
24:UU:373:ARG:HB3	24:UU:411:PHE:O	2.15	0.46
24:UU:511:ASP:C	24:UU:513:MET:H	2.24	0.46
25:UV:1102:LEU:N	25:UV:1103:ARG:HH21	2.13	0.46
29:CE:431:ALA:HB3	65:D2:309:A:N6	2.31	0.46
33:CJ:55:ASP:O	33:CJ:57:ARG:N	2.42	0.46
33:CJ:87:ARG:N	33:CJ:137:THR:OG1	2.49	0.46
33:CJ:187:PRO:HB3	33:CJ:220:ARG:HE	1.81	0.46
33:CJ:189:LEU:HD23	33:CJ:191:PHE:HZ	1.79	0.46
35:CL:304:LEU:O	35:CL:788:TYR:CB	2.63	0.46
35:CL:565:ARG:HD2	35:CL:566:ARG:N	2.31	0.46
36:CM:155:LYS:HG2	36:CM:165:GLU:HG2	1.98	0.46
37:CN:87:LEU:HD11	37:CN:124:ALA:HB1	1.98	0.46
39:JG:80:MET:HE3	39:JG:82:ARG:HG3	1.97	0.46
42:JJ:106:MET:HE1	42:JJ:135:LYS:HD2	1.98	0.46
42:JJ:187:VAL:HG22	42:JJ:229:SER:OG	2.16	0.46
46:JO:74:ASP:HB3	46:JO:79:SER:OG	2.15	0.46
49:DE:122:LYS:C	49:DE:123:LEU:HD12	2.41	0.46
49:DE:240:LYS:HD2	49:DE:240:LYS:HA	1.75	0.46
57:DO:24:ASN:HD22	57:DO:24:ASN:C	2.18	0.46
62:DY:112:LYS:HD2	66:D3:57:G:OP1	2.16	0.46
65:D2:107:G:H2'	65:D2:108:U:O4'	2.15	0.46
65:D2:243:A:C4	65:D2:271:G:N2	2.84	0.46
66:D3:188:A:H3'	66:D3:189:C:C6	2.51	0.46
66:D3:326:G:O6	66:D3:341:A:N6	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:339:C:H2'	66:D3:340:U:O4'	2.16	0.46
66:D3:849:C:H2'	66:D3:850:A:H8	1.80	0.46
66:D3:1057:U:O2'	66:D3:1058:U:O5'	2.27	0.46
66:D3:1638:G:HO2'	66:D3:1639:C:P	2.37	0.46
78:EK:368:LYS:O	78:EK:372:LEU:N	2.37	0.46
3:JA:49:LEU:HA	3:JA:53:LYS:HZ1	1.80	0.46
1:CB:121:LYS:H	14:UK:123:LYS:NZ	2.14	0.46
9:UF:96:TYR:CD1	9:UF:113:TYR:HB2	2.51	0.46
9:UF:172:LEU:HD22	9:UF:181:LEU:HD21	1.98	0.46
11:UH:522:THR:O	11:UH:526:LEU:HD23	2.15	0.46
13:UJ:716:PHE:O	13:UJ:720:LEU:HG	2.15	0.46
15:UL:14:PHE:CE2	15:UL:422:HIS:HB3	2.51	0.46
15:UL:88:HIS:CD2	15:UL:90:ASP:HB2	2.51	0.46
15:UL:105:VAL:O	15:UL:113:VAL:HA	2.16	0.46
15:UL:252:SER:OG	15:UL:276:ASN:OD1	2.31	0.46
15:UL:365:TYR:HD2	15:UL:379:PRO:HB2	1.81	0.46
15:UL:678:ASP:N	15:UL:678:ASP:OD1	2.48	0.46
16:UM:38:ASP:HB2	16:UM:62:GLN:NE2	2.31	0.46
16:UM:78:TYR:CE1	16:UM:86:LYS:HB2	2.51	0.46
18:UO:379:VAL:HG11	65:D2:89:C:C4	2.50	0.46
20:UQ:515:PRO:HB2	20:UQ:522:SER:HA	1.97	0.46
20:UQ:586:SER:OG	20:UQ:587:PHE:N	2.49	0.46
23:UT:37:ARG:O	23:UT:41:TYR:HB2	2.15	0.46
23:UT:464:PHE:CD2	23:UT:482:ARG:HG2	2.51	0.46
23:UT:1288:PHE:HB3	23:UT:1301:ILE:HG23	1.98	0.46
24:UU:841:SER:O	24:UU:845:VAL:HG23	2.16	0.46
25:UV:125:GLU:HA	25:UV:128:LEU:HG	1.97	0.46
25:UV:909:TYR:OH	25:UV:935:GLU:HB2	2.16	0.46
27:UZ:75:ILE:HB	27:UZ:127:ALA:HB2	1.97	0.46
27:UZ:194:ASP:OD1	27:UZ:195:ASN:N	2.47	0.46
28:CD:176:GLN:HB3	29:CE:187:TRP:HE1	1.81	0.46
29:CE:7:GLU:OE1	29:CE:12:TYR:HD1	1.98	0.46
29:CE:229:GLU:O	29:CE:232:GLU:HG3	2.16	0.46
31:CH:288:PHE:HE1	31:CH:309:ILE:HG13	1.79	0.46
32:CI:42:GLU:HG3	32:CI:46:LYS:HE3	1.98	0.46
32:CI:120:MET:HE1	32:CI:159:THR:HA	1.98	0.46
35:CL:866:ARG:N	35:CL:866:ARG:HD2	2.31	0.46
37:CN:14:ILE:HG23	37:CN:145:SER:HB3	1.96	0.46
39:JF:115:GLN:NE2	39:JF:119:GLY:HA2	2.30	0.46
39:JF:193:ILE:O	39:JF:196:LEU:HB2	2.16	0.46
46:JO:288:GLN:HG3	66:D3:316:A:H62	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:DF:66:GLN:OE1	50:DF:67:PRO:HD2	2.16	0.46
52:DH:129:LEU:HG	52:DH:169:PHE:CE1	2.51	0.46
61:DX:42:PRO:HD2	61:DX:44:GLY:O	2.15	0.46
62:DY:105:ARG:NH2	62:DY:109:LYS:HD2	2.31	0.46
63:Db:40:CYS:SG	63:Db:59:CYS:CB	2.94	0.46
65:D2:411:A:H2'	65:D2:412:A:C8	2.51	0.46
66:D3:395:U:C4	66:D3:396:G:C6	3.04	0.46
66:D3:514:G:C2	66:D3:515:A:C5	3.04	0.46
66:D3:1167:G:H2'	66:D3:1167:G:N3	2.30	0.46
66:D3:1213:G:N1	66:D3:1451:C:N3	2.63	0.46
78:EK:771:ASN:O	78:EK:775:ASN:HA	2.16	0.46
1:CA:224:ALA:O	1:CA:252:ILE:HD11	2.16	0.46
2:DA:77:GLU:HA	2:DA:80:SER:HB3	1.98	0.46
3:JA:536:LYS:HD2	3:JA:536:LYS:HA	1.72	0.46
4:UA:32:PRO:HB3	4:UA:61:ILE:HD11	1.97	0.46
4:UA:358:SER:O	4:UA:374:ILE:HG12	2.16	0.46
5:UB:521:ALA:O	5:UB:525:MET:HG2	2.16	0.46
5:UB:799:TYR:O	5:UB:802:GLU:HB2	2.16	0.46
6:UC:609:LYS:HD3	6:UC:609:LYS:HA	1.53	0.46
7:UD:52:SER:OG	7:UD:65:LEU:HA	2.16	0.46
8:UE:343:ARG:HA	8:UE:349:ASP:HA	1.98	0.46
12:UI:442:THR:HB	12:UI:482:LEU:HB3	1.98	0.46
13:UJ:126:GLN:HB3	13:UJ:129:VAL:HG22	1.98	0.46
13:UJ:339:GLU:OE1	13:UJ:339:GLU:N	2.49	0.46
13:UJ:605:TYR:CZ	13:UJ:660:LEU:HG	2.51	0.46
13:UJ:768:LYS:HB2	13:UJ:768:LYS:HE2	1.72	0.46
15:UL:760:ILE:O	15:UL:761:ALA:C	2.59	0.46
16:UM:351:ASN:O	16:UM:367:VAL:HG12	2.16	0.46
16:UM:584:ILE:HG23	16:UM:586:LYS:N	2.31	0.46
18:UO:479:VAL:O	18:UO:482:GLU:HG3	2.15	0.46
20:UQ:139:GLU:HB2	20:UQ:157:PHE:HB2	1.97	0.46
20:UQ:200:ASN:ND2	20:UQ:262:MET:HB3	2.31	0.46
20:UQ:510:TYR:CE1	20:UQ:527:HIS:HB3	2.49	0.46
22:US:175:LEU:O	22:US:179:GLU:HG3	2.16	0.46
22:US:198:GLU:HA	22:US:201:GLN:OE1	2.16	0.46
22:US:227:LYS:O	22:US:227:LYS:HG2	2.16	0.46
22:US:347:PRO:O	22:US:351:HIS:ND1	2.28	0.46
22:US:414:ILE:CD1	39:JG:19:LEU:HD23	2.46	0.46
23:UT:99:ASP:C	23:UT:103:LEU:HG	2.41	0.46
23:UT:280:MET:HE1	23:UT:733:VAL:HG21	1.98	0.46
23:UT:536:ASN:OD1	23:UT:537:LEU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:689:TYR:CE1	23:UT:696:VAL:HG21	2.51	0.46
23:UT:944:SER:O	23:UT:947:ILE:HG22	2.16	0.46
23:UT:1067:GLU:HA	23:UT:1111:TYR:CE2	2.51	0.46
23:UT:1930:SER:O	23:UT:1934:PHE:HD2	1.99	0.46
24:UU:546:ILE:HG21	24:UU:560:LEU:HD22	1.97	0.46
25:UV:648:PHE:O	25:UV:689:HIS:NE2	2.44	0.46
25:UV:781:ASP:HA	25:UV:851:LYS:HG3	1.98	0.46
25:UV:939:ILE:O	25:UV:943:VAL:HG23	2.16	0.46
26:UX:152:ILE:HD11	26:UX:182:ILE:HD12	1.97	0.46
27:UZ:129:TYR:CE1	27:UZ:155:ARG:HG3	2.50	0.46
28:CD:118:CYS:O	47:JP:156:SER:OG	2.33	0.46
28:CD:138:LEU:HD23	28:CD:138:LEU:HA	1.83	0.46
28:CD:284:TYR:HE1	29:CE:257:ALA:HB1	1.80	0.46
29:CE:144:ALA:HA	29:CE:147:ILE:HG22	1.97	0.46
31:CH:330:ALA:C	31:CH:331:LEU:HD12	2.42	0.46
31:CH:443:LEU:HB3	31:CH:471:GLN:HE21	1.80	0.46
33:CJ:223:THR:O	33:CJ:233:VAL:HA	2.15	0.46
35:CL:69:PRO:HB2	35:CL:116:THR:HG23	1.98	0.46
35:CL:150:MET:O	35:CL:154:GLU:HG3	2.16	0.46
37:CN:77:LYS:HE2	37:CN:147:LEU:HD22	1.97	0.46
38:JC:49:LEU:HD12	38:JC:356:LEU:HD11	1.98	0.46
38:JC:143:SER:O	38:JC:155:VAL:HA	2.16	0.46
38:JC:165:LEU:HD21	38:JC:170:GLY:HA2	1.97	0.46
43:JK:460:LYS:O	66:D3:321:C:H3’	2.16	0.46
43:JK:486:SER:H	43:JK:489:GLN:HE22	1.63	0.46
46:JO:192:LYS:HE2	46:JO:192:LYS:HA	1.97	0.46
47:JP:218:GLY:O	47:JP:220:ASP:N	2.45	0.46
47:JP:296:ARG:HH22	66:D3:-3:U:C1’	2.28	0.46
56:DN:46:THR:HG23	56:DN:49:GLN:H	1.80	0.46
60:DW:26:LEU:HD12	63:Db:7:LEU:HD12	1.97	0.46
61:DX:64:PRO:HA	61:DX:69:ARG:NH2	2.31	0.46
61:DX:74:VAL:HG21	61:DX:104:LEU:CD1	2.45	0.46
62:DY:19:ALA:HB1	62:DY:77:ASN:ND2	2.31	0.46
62:DY:56:SER:N	62:DY:74:LEU:O	2.32	0.46
65:D2:132:C:H2’	65:D2:133:U:H6	1.80	0.46
66:D3:527:A:H2’	66:D3:528:U:H6	1.80	0.46
66:D3:883:C:C2	66:D3:946:U:N3	2.85	0.46
66:D3:1158:C:N4	66:D3:1581:C:N3	2.64	0.46
66:D3:1168:U:C5	66:D3:1169:G:C5	3.04	0.46
66:D3:1728:A:H2’	66:D3:1729:C:C6	2.51	0.46
78:EK:328:ALA:N	78:EK:386:ILE:HA	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JA:57:TRP:HB2	3:JA:103:ILE:HD11	1.98	0.45
3:JA:88:VAL:O	3:JA:89:ASN:ND2	2.49	0.45
3:JA:585:VAL:HG13	3:JA:639:ALA:HB3	1.98	0.45
3:JA:748:ARG:NE	3:JA:759:THR:HG22	2.30	0.45
3:JA:753:ASP:OD1	3:JA:754:LEU:N	2.49	0.45
3:JA:906:SER:HB3	3:JA:908:GLN:NE2	2.31	0.45
4:UA:380:LEU:HD23	4:UA:380:LEU:C	2.41	0.45
4:UA:426:THR:O	4:UA:458:TRP:NE1	2.49	0.45
4:UA:810:ILE:CD1	24:UU:936:VAL:HG11	2.46	0.45
4:UA:842:ASN:ND2	24:UU:882:GLU:O	2.41	0.45
5:UB:460:LYS:O	5:UB:464:GLU:OE1	2.34	0.45
5:UB:502:SER:O	5:UB:506:ILE:HG12	2.16	0.45
5:UB:520:PRO:HA	5:UB:523:ILE:HG12	1.98	0.45
7:UD:30:ARG:HD2	11:UH:720:TYR:CE1	2.51	0.45
7:UD:197:LYS:C	7:UD:199:ASP:H	2.24	0.45
7:UD:241:VAL:HG23	7:UD:241:VAL:O	2.16	0.45
7:UD:654:ILE:HB	7:UD:735:THR:HG22	1.97	0.45
8:UE:4:PRO:HB3	21:UR:278:ASP:OD2	2.16	0.45
8:UE:441:LEU:HD12	8:UE:442:SER:N	2.30	0.45
9:UF:23:LEU:HG	9:UF:24:PHE:CD1	2.50	0.45
9:UF:357:GLU:CD	9:UF:357:GLU:H	2.24	0.45
10:UG:179:HIS:CD2	10:UG:180:GLU:HB2	2.51	0.45
10:UG:334:ARG:HH22	10:UG:337:HIS:CD2	2.34	0.45
10:UG:493:LYS:HE3	65:D2:357:G:N7	2.32	0.45
13:UJ:59:LEU:HB3	13:UJ:66:PHE:CE2	2.51	0.45
13:UJ:317:SER:OG	13:UJ:321:LYS:NZ	2.24	0.45
14:UK:11:LYS:HD3	14:UK:13:HIS:CD2	2.50	0.45
15:UL:260:GLU:OE2	15:UL:342:SER:HA	2.15	0.45
15:UL:275:GLN:HE22	15:UL:339:LYS:C	2.24	0.45
17:UN:876:GLN:HE22	65:D2:487:A:H2	1.63	0.45
18:UO:364:SER:O	21:UR:270:LYS:NZ	2.49	0.45
18:UO:493:HIS:O	18:UO:497:LYS:HG2	2.17	0.45
20:UQ:252:LEU:O	20:UQ:257:ARG:NH1	2.34	0.45
20:UQ:443:ASN:HA	20:UQ:500:PHE:CD2	2.51	0.45
20:UQ:658:GLU:OE1	20:UQ:658:GLU:N	2.42	0.45
22:US:179:GLU:HA	22:US:182:GLU:HG3	1.98	0.45
23:UT:625:ILE:HD11	23:UT:641:ARG:CB	2.46	0.45
23:UT:905:LEU:HG	23:UT:956:PHE:CE1	2.50	0.45
23:UT:1668:GLU:HG2	23:UT:1669:TYR:N	2.31	0.45
24:UU:583:GLY:HA3	24:UU:610:ARG:NH1	2.28	0.45
25:UV:813:GLU:OE1	25:UV:814:LEU:HD22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:945:PRO:HB3	25:UV:950:ILE:HA	1.96	0.45
26:UX:159:GLY:O	26:UX:163:ARG:HG3	2.17	0.45
27:UZ:174:ILE:HD12	27:UZ:174:ILE:H	1.81	0.45
29:CE:192:PHE:CD2	29:CE:195:LEU:HB2	2.51	0.45
31:CH:131:ARG:N	31:CH:131:ARG:HD2	2.31	0.45
31:CH:363:ASP:N	31:CH:363:ASP:OD1	2.46	0.45
35:CL:85:LEU:HD12	35:CL:215:TYR:HE2	1.79	0.45
35:CL:103:GLY:HA3	35:CL:358:MET:HE3	1.97	0.45
35:CL:199:TYR:CE2	66:D3:436:A:C8	3.05	0.45
35:CL:244:MET:HE3	35:CL:274:TYR:O	2.16	0.45
35:CL:272:TYR:CE2	35:CL:790:ARG:HD3	2.52	0.45
38:JC:102:VAL:CG2	38:JC:119:ASN:HB3	2.46	0.45
38:JC:257:LEU:HG	43:JK:493:PHE:HE2	1.82	0.45
46:JO:274:ARG:O	46:JO:277:GLN:HG3	2.16	0.45
49:DE:42:LEU:CD2	49:DE:47:PHE:HB2	2.46	0.45
49:DE:60:GLU:OE1	62:DY:18:LEU:HD11	2.15	0.45
51:DG:64:LYS:HB3	51:DG:67:VAL:HG12	1.98	0.45
53:DI:172:ARG:HH21	53:DI:175:GLN:NE2	2.14	0.45
62:DY:125:LEU:O	62:DY:128:LYS:HG3	2.15	0.45
65:D2:243:A:C2	65:D2:244:U:C2	3.04	0.45
66:D3:70:C:H2'	66:D3:71:A:C8	2.51	0.45
66:D3:448:C:H2'	66:D3:449:C:C6	2.50	0.45
66:D3:502:U:H2'	66:D3:503:G:C8	2.37	0.45
66:D3:648:G:C2	66:D3:687:G:C2	3.04	0.45
66:D3:762:A:N1	66:D3:787:G:N2	2.64	0.45
66:D3:870:C:H2'	66:D3:871:G:C8	2.48	0.45
66:D3:1613:U:C6	66:D3:1614:A:H2	2.34	0.45
66:D3:1787:C:N4	66:D3:1788:G:O6	2.49	0.45
67:D4:64:A:C2	67:D4:65:C:C2	3.04	0.45
67:D4:266:C:N3	67:D4:306:G:N1	2.63	0.45
71:ED:297:TYR:N	71:ED:347:ILE:O	2.49	0.45
79:EN:445:ASN:O	79:EN:449:ALA:N	2.50	0.45
1:CA:107:VAL:HG11	1:CA:141:TYR:HB3	1.97	0.45
1:CA:171:LEU:HB3	1:CA:240:VAL:HG12	1.99	0.45
2:DA:66:VAL:HG12	2:DA:67:GLU:O	2.15	0.45
2:DA:139:ALA:HA	2:DA:211:HIS:O	2.16	0.45
3:JA:769:ARG:NH2	3:JA:771:SER:HB2	2.31	0.45
4:UA:152:LEU:O	4:UA:153:THR:OG1	2.30	0.45
4:UA:524:ARG:HA	4:UA:585:TYR:HD2	1.82	0.45
1:CB:98:ILE:HA	1:CB:105:LEU:O	2.16	0.45
3:JB:858:MET:O	3:JB:862:LEU:N	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:UB:612:THR:OG1	5:UB:613:ILE:N	2.49	0.45
7:UD:95:LYS:HG3	19:UP:193:LYS:HE2	1.98	0.45
7:UD:644:SER:OG	7:UD:660:ASP:OD2	2.32	0.45
7:UD:733:PHE:HE2	7:UD:735:THR:HB	1.81	0.45
8:UE:281:ILE:HD13	8:UE:328:VAL:HB	1.98	0.45
8:UE:361:ALA:HB2	20:UQ:543:LEU:O	2.16	0.45
9:UF:50:ILE:HD11	9:UF:109:PHE:HB2	1.99	0.45
11:UH:596:LYS:O	11:UH:600:LYS:HG3	2.15	0.45
13:UJ:539:LEU:HA	13:UJ:542:ILE:HG22	1.97	0.45
13:UJ:554:ILE:HD11	13:UJ:592:ARG:HD2	1.98	0.45
13:UJ:643:PRO:HD2	13:UJ:647:GLU:HA	1.97	0.45
13:UJ:1439:SER:O	13:UJ:1442:SER:OG	2.20	0.45
14:UK:77:LEU:HD11	35:CL:1071:LYS:HZ2	1.80	0.45
15:UL:51:ILE:HD11	15:UL:61:SER:HB2	1.98	0.45
15:UL:451:ASN:OD1	15:UL:452:GLY:N	2.49	0.45
16:UM:217:ASP:CG	16:UM:218:ASP:H	2.24	0.45
16:UM:560:TRP:HD1	16:UM:566:SER:O	1.99	0.45
17:UN:848:PRO:HB3	47:JP:406:HIS:CD2	2.51	0.45
18:UO:411:LYS:HE2	65:D2:102:A:C6	2.51	0.45
18:UO:462:TRP:O	18:UO:466:VAL:HG23	2.16	0.45
20:UQ:508:ILE:HD13	20:UQ:531:PHE:CE1	2.51	0.45
23:UT:248:HIS:CE1	23:UT:251:ALA:HB2	2.52	0.45
23:UT:1614:GLU:HA	23:UT:1617:VAL:HG22	1.98	0.45
23:UT:1906:GLU:OE1	23:UT:1906:GLU:N	2.49	0.45
25:UV:1201:ASP:CG	37:CN:121:ARG:HE	2.24	0.45
29:CE:280:MET:HE3	29:CE:284:ALA:HB3	1.96	0.45
29:CE:413:VAL:HB	29:CE:415:GLU:OE2	2.16	0.45
31:CH:154:GLU:HB2	31:CH:193:ASP:OD2	2.17	0.45
31:CH:323:ASP:OD1	31:CH:324:ILE:HG12	2.16	0.45
31:CH:429:LYS:NZ	31:CH:433:ILE:HA	2.31	0.45
34:CK:511:ASN:OD1	34:CK:513:VAL:HG12	2.16	0.45
35:CL:835:HIS:HD2	35:CL:837:LYS:H	1.64	0.45
36:CM:192:THR:N	36:CM:248:GLN:HE22	2.08	0.45
36:CM:208:MET:HE1	36:CM:241:TRP:HD1	1.75	0.45
38:JC:92:LYS:HE3	66:D3:407:A:H4'	1.97	0.45
38:JC:339:HIS:HD2	38:JC:341:TYR:CZ	2.34	0.45
39:JG:39:LYS:HA	39:JG:201:SER:OG	2.17	0.45
42:JJ:119:PRO:HB2	42:JJ:175:LEU:CD2	2.46	0.45
43:JK:485:TRP:HB3	43:JK:489:GLN:NE2	2.32	0.45
50:DF:145:ASP:CG	50:DF:146:THR:N	2.74	0.45
52:DH:141:ARG:HB2	52:DH:141:ARG:HH11	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:DW:125:ILE:HD12	60:DW:125:ILE:N	2.29	0.45
62:DY:131:ARG:NH2	66:D3:153:G:H5"	2.30	0.45
65:D2:355:C:H2'	65:D2:356:C:H6	1.81	0.45
66:D3:469:C:C4	66:D3:470:A:C8	3.04	0.45
66:D3:1171:A:H2'	66:D3:1172:G:C8	2.49	0.45
66:D3:1661:U:H2'	66:D3:1662:G:H8	1.82	0.45
66:D3:1703:C:H2'	66:D3:1704:U:C6	2.51	0.45
79:EN:80:MET:N	79:EN:125:LEU:H	2.14	0.45
3:JA:91:MET:HE2	35:CL:95:LYS:O	2.17	0.45
3:JA:121:MET:SD	3:JA:147:ILE:HB	2.57	0.45
3:JA:569:PRO:HD3	3:JA:583:LEU:CG	2.46	0.45
4:UA:716:ASP:O	4:UA:744:ARG:NE	2.48	0.45
6:UC:500:ARG:HD3	6:UC:500:ARG:HA	1.72	0.45
7:UD:83:ASN:O	7:UD:85:TRP:N	2.45	0.45
7:UD:257:ASP:OD1	7:UD:261:SER:HB3	2.16	0.45
7:UD:378:TYR:HH	7:UD:632:ASN:HD22	1.59	0.45
9:UF:197:ILE:HD13	9:UF:200:ARG:HE	1.81	0.45
11:UH:652:GLY:O	11:UH:656:GLU:HG2	2.17	0.45
13:UJ:550:TYR:OH	13:UJ:556:LYS:HD2	2.16	0.45
13:UJ:754:GLU:HA	13:UJ:757:ILE:HG12	1.97	0.45
13:UJ:1423:LEU:HA	13:UJ:1426:ILE:HG22	1.98	0.45
15:UL:477:TRP:HE1	15:UL:493:ALA:HB2	1.81	0.45
15:UL:843:LYS:O	15:UL:846:LEU:HB3	2.15	0.45
16:UM:43:ILE:HA	16:UM:53:LEU:H	1.82	0.45
16:UM:421:SER:O	16:UM:423:LYS:N	2.42	0.45
18:UO:116:ILE:HG23	18:UO:116:ILE:O	2.16	0.45
20:UQ:336:ARG:C	20:UQ:337:LEU:HD22	2.42	0.45
20:UQ:354:TYR:O	20:UQ:373:LEU:HD12	2.16	0.45
21:UR:150:TYR:HD2	65:D2:313:A:C5	2.35	0.45
21:UR:406:ASP:CG	21:UR:407:PHE:H	2.24	0.45
22:US:281:LEU:O	22:US:286:ILE:HG12	2.16	0.45
22:US:296:MET:HE1	22:US:332:LEU:HB3	1.99	0.45
22:US:403:TYR:CD2	22:US:493:TYR:HE2	2.35	0.45
22:US:427:GLN:OE1	22:US:431:GLN:HB2	2.15	0.45
22:US:466:LEU:HD23	22:US:466:LEU:HA	1.84	0.45
23:UT:434:LEU:O	23:UT:438:GLU:HG2	2.16	0.45
23:UT:552:LEU:HD13	23:UT:596:ILE:HA	1.99	0.45
23:UT:839:LYS:HG3	23:UT:840:ASN:H	1.81	0.45
23:UT:977:PHE:HB2	23:UT:1028:TYR:CD2	2.52	0.45
23:UT:1602:ASP:OD1	23:UT:1602:ASP:N	2.49	0.45
24:UU:605:LEU:C	24:UU:607:SER:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:495:THR:O	25:UV:499:LEU:HD23	2.16	0.45
25:UV:894:ARG:HB2	25:UV:894:ARG:HH11	1.80	0.45
28:CD:7:LEU:CB	28:CD:99:ALA:HB3	2.47	0.45
29:CE:126:GLU:C	29:CE:129:PRO:HD2	2.42	0.45
29:CE:201:ASP:CG	29:CE:204:ALA:H	2.25	0.45
29:CE:358:LYS:HE2	67:D4:85:G:OP2	2.16	0.45
30:CF:33:LEU:HD13	30:CF:102:ILE:HD13	1.98	0.45
31:CH:257:ASP:C	31:CH:258:ARG:HG2	2.40	0.45
33:CJ:172:MET:O	33:CJ:176:ILE:HG13	2.17	0.45
33:CJ:268:ASN:ND2	33:CJ:271:ALA:HB2	2.30	0.45
34:CK:304:GLN:HA	34:CK:307:ILE:HG22	1.97	0.45
35:CL:134:ILE:HD12	35:CL:811:VAL:HG13	1.98	0.45
35:CL:754:GLN:O	35:CL:758:ILE:HG12	2.16	0.45
35:CL:975:GLU:OE2	35:CL:977:LYS:HE2	2.16	0.45
37:CN:18:PHE:HE1	37:CN:156:PHE:HB2	1.81	0.45
37:CN:22:ASP:HB2	37:CN:26:LEU:HD22	1.98	0.45
37:CN:225:SER:HB2	66:D3:1059:U:C2	2.52	0.45
38:JC:236:PHE:CD2	38:JC:240:GLY:HA2	2.51	0.45
45:JN:155:LEU:HD23	45:JN:159:LEU:HD13	1.98	0.45
46:JO:165:LEU:HB3	46:JO:172:SER:HG	1.81	0.45
47:JP:15:PRO:HB3	47:JP:20:GLN:HE21	1.82	0.45
47:JP:270:ASN:ND2	47:JP:273:GLU:HB2	2.31	0.45
47:JP:450:ASP:OD1	47:JP:450:ASP:N	2.46	0.45
48:JQ:182:HIS:CE1	48:JQ:183:ARG:HB3	2.51	0.45
51:DG:140:ASN:O	51:DG:143:LYS:HG2	2.17	0.45
52:DH:116:ARG:HD3	52:DH:116:ARG:HA	1.69	0.45
52:DH:122:HIS:O	52:DH:126:LEU:HD23	2.17	0.45
57:DO:41:ARG:NH1	66:D3:917:U:C2	2.84	0.45
57:DO:52:ARG:HE	66:D3:905:A:C3'	2.26	0.45
65:D2:153:U:H3'	65:D2:154:A:C8	2.51	0.45
65:D2:165:G:H2'	65:D2:166:U:C6	2.52	0.45
65:D2:429:A:H2	65:D2:432:C:C4	2.35	0.45
65:D2:448:G:C2	65:D2:449:U:N3	2.85	0.45
66:D3:242:U:H2'	66:D3:243:G:H8	1.80	0.45
66:D3:843:U:H2'	66:D3:844:A:C8	2.52	0.45
66:D3:1164:G:C2	66:D3:1165:G:C4	3.05	0.45
66:D3:1586:A:H2'	66:D3:1587:A:O4'	2.15	0.45
66:D3:1750:A:H2'	66:D3:1751:C:C6	2.52	0.45
71:ED:93:GLY:HA2	71:ED:213:LEU:HA	1.98	0.45
3:JA:881:GLN:HA	3:JA:912:MET:CE	2.46	0.45
4:UA:496:THR:HG22	4:UA:497:ILE:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:640:SER:O	4:UA:642:ASP:N	2.49	0.45
1:CB:228:GLN:CA	1:CB:231:ARG:HD2	2.47	0.45
7:UD:31:MET:HE2	7:UD:752:LEU:HG	1.98	0.45
7:UD:354:LYS:O	7:UD:374:THR:CA	2.61	0.45
13:UJ:143:TYR:CG	13:UJ:179:MET:HE1	2.51	0.45
13:UJ:231:LEU:O	13:UJ:235:VAL:HG23	2.17	0.45
13:UJ:650:PHE:O	13:UJ:654:TRP:HE3	1.99	0.45
13:UJ:1499:ILE:O	13:UJ:1503:LEU:HD23	2.16	0.45
13:UJ:1572:LEU:HD12	13:UJ:1576:PHE:CE2	2.52	0.45
15:UL:229:TRP:HA	15:UL:243:THR:O	2.16	0.45
15:UL:288:LYS:O	15:UL:292:ILE:HG12	2.16	0.45
15:UL:538:ARG:HD2	15:UL:539:VAL:H	1.81	0.45
16:UM:296:ILE:O	16:UM:297:LEU:HG	2.16	0.45
18:UO:52:PRO:HG2	18:UO:312:ALA:HA	1.99	0.45
18:UO:360:MET:SD	65:D2:234:A:H2'	2.57	0.45
18:UO:383:ARG:HH22	18:UO:386:ARG:HH22	1.62	0.45
20:UQ:335:PRO:O	20:UQ:336:ARG:HD3	2.17	0.45
20:UQ:634:ASP:OD2	20:UQ:635:PHE:N	2.50	0.45
22:US:181:THR:HG1	22:US:225:HIS:CE1	2.29	0.45
22:US:495:MET:N	22:US:495:MET:SD	2.90	0.45
23:UT:991:LEU:HA	23:UT:994:ILE:HG12	1.97	0.45
25:UV:121:VAL:HG13	25:UV:189:PHE:CE1	2.52	0.45
25:UV:300:TYR:HD1	25:UV:341:THR:HG23	1.82	0.45
25:UV:1028:ARG:HA	25:UV:1028:ARG:HD3	1.76	0.45
25:UV:1209:ASP:HA	37:CN:9:MET:HG3	1.98	0.45
25:UV:1226:PHE:CZ	37:CN:60:LEU:HD13	2.51	0.45
26:UX:93:LYS:NZ	26:UX:95:ASN:OD1	2.50	0.45
27:UZ:110:PHE:CZ	27:UZ:118:LEU:HD21	2.52	0.45
29:CE:25:SER:HA	29:CE:116:ILE:HD11	1.98	0.45
29:CE:49:LYS:HD3	29:CE:50:PHE:O	2.15	0.45
30:CF:54:MET:SD	30:CF:64:LEU:HD13	2.57	0.45
31:CH:526:VAL:HG12	31:CH:539:ILE:HG12	1.97	0.45
33:CJ:268:ASN:C	33:CJ:270:ASP:H	2.23	0.45
36:CM:148:GLU:H	36:CM:172:SER:HG	1.60	0.45
37:CN:259:ARG:O	37:CN:262:VAL:HG12	2.16	0.45
39:JG:31:LEU:HB3	39:JG:40:ARG:HE	1.80	0.45
51:DG:136:LYS:HB3	66:D3:168:A:P	2.56	0.45
53:DI:99:ALA:HB3	66:D3:329:G:H5"	1.98	0.45
54:DJ:37:LYS:HG3	54:DJ:38:ASN:OD1	2.15	0.45
56:DN:98:VAL:O	56:DN:102:LEU:HD23	2.17	0.45
57:DO:53:ASP:O	57:DO:56:SER:N	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:898:A:N3	66:D3:899:G:H1'	2.31	0.45
66:D3:974:A:C5	66:D3:975:C:C4	3.05	0.45
67:D4:5:A:H2'	67:D4:6:C:C6	2.52	0.45
67:D4:321:C:C4	67:D4:322:A:C5	3.04	0.45
76:EI:117:ALA:H	76:EI:126:VAL:HA	1.82	0.45
79:EN:513:ALA:O	79:EN:545:GLY:N	2.39	0.45
1:CA:91:HIS:CD2	1:CA:98:ILE:HD11	2.51	0.45
1:CA:236:MET:HG3	28:CD:133:LEU:HD12	1.99	0.45
6:UC:546:LYS:HA	6:UC:546:LYS:HD2	1.61	0.45
7:UD:64:ASP:HA	7:UD:66:ARG:NH1	2.31	0.45
8:UE:226:LEU:HD12	8:UE:256:PHE:CD1	2.50	0.45
10:UG:546:ILE:O	10:UG:550:LEU:HD23	2.17	0.45
12:UI:439:LYS:O	12:UI:442:THR:HG22	2.16	0.45
12:UI:501:GLY:C	12:UI:505:MET:HE2	2.42	0.45
13:UJ:241:ILE:O	13:UJ:245:LEU:HD23	2.17	0.45
13:UJ:312:VAL:O	13:UJ:312:VAL:HG12	2.15	0.45
13:UJ:562:THR:HG23	13:UJ:563:LEU:HD23	1.99	0.45
13:UJ:1723:LEU:O	13:UJ:1726:LEU:HG	2.17	0.45
15:UL:174:GLU:C	15:UL:191:LEU:HD12	2.41	0.45
15:UL:288:LYS:HE2	15:UL:288:LYS:HB2	1.76	0.45
15:UL:762:GLU:OE2	15:UL:763:ILE:HG13	2.17	0.45
16:UM:497:LEU:HG	16:UM:506:PHE:HE2	1.82	0.45
16:UM:745:ASP:O	16:UM:748:THR:HB	2.17	0.45
18:UO:62:ARG:HG3	18:UO:64:GLN:HG3	1.98	0.45
18:UO:108:TYR:HB3	18:UO:117:LEU:H	1.82	0.45
18:UO:488:LYS:HE3	18:UO:492:ARG:CZ	2.46	0.45
20:UQ:318:GLU:O	20:UQ:320:VAL:N	2.50	0.45
20:UQ:371:PHE:HB2	20:UQ:385:ILE:HB	1.98	0.45
20:UQ:401:GLN:HB2	20:UQ:412:ASN:ND2	2.31	0.45
20:UQ:484:VAL:HG23	20:UQ:485:ARG:N	2.31	0.45
20:UQ:724:ILE:HG12	20:UQ:741:SER:HB2	1.98	0.45
21:UR:364:GLN:NE2	21:UR:369:ASN:O	2.38	0.45
22:US:188:PHE:HB2	22:US:191:ILE:HG22	1.98	0.45
23:UT:719:LEU:HD23	23:UT:754:ASN:HD22	1.81	0.45
23:UT:797:ALA:HB3	23:UT:798:PRO:HD3	1.98	0.45
23:UT:1369:HIS:O	23:UT:1372:MET:HB2	2.16	0.45
23:UT:2001:ASN:HA	23:UT:2004:LYS:HE2	1.99	0.45
24:UU:252:SER:OG	24:UU:267:GLY:O	2.35	0.45
24:UU:364:HIS:CD2	24:UU:381:ARG:HD2	2.52	0.45
25:UV:174:TYR:CD2	25:UV:227:LYS:HE3	2.52	0.45
25:UV:847:GLY:HA2	25:UV:1132:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:1194:HIS:CD2	25:UV:1200:LEU:HD21	2.51	0.45
27:UZ:73:LEU:HD13	27:UZ:122:PHE:CE2	2.51	0.45
30:CF:41:THR:OG1	30:CF:67:LEU:HD21	2.16	0.45
31:CH:191:SER:HB3	31:CH:195:GLN:HB3	1.98	0.45
32:CI:50:ILE:O	32:CI:54:ILE:HG13	2.15	0.45
36:CM:301:MET:HE1	36:CM:311:LEU:HB2	1.99	0.45
37:CN:70:PHE:HB2	37:CN:158:TRP:HZ3	1.81	0.45
38:JC:115:VAL:HG12	38:JC:123:ILE:HD11	1.97	0.45
39:JF:41:MET:HE3	39:JF:42:ILE:O	2.17	0.45
46:JO:97:ALA:O	46:JO:100:LEU:HB3	2.16	0.45
46:JO:132:VAL:HG23	46:JO:191:MET:HE3	1.99	0.45
47:JP:302:LYS:O	47:JP:302:LYS:HG2	2.16	0.45
49:DE:71:LYS:HA	49:DE:76:VAL:HA	1.99	0.45
49:DE:178:GLY:N	49:DE:195:ILE:HG13	2.32	0.45
49:DE:200:ARG:HH21	66:D3:246:G:P	2.39	0.45
51:DG:38:GLY:O	51:DG:45:PHE:HB2	2.16	0.45
51:DG:212:LEU:HA	51:DG:215:ARG:HG2	1.98	0.45
54:DJ:109:LEU:HA	54:DJ:109:LEU:HD12	1.72	0.45
65:D2:64:U:H2'	65:D2:65:U:H6	1.82	0.45
65:D2:173:G:H2'	65:D2:174:U:C6	2.52	0.45
65:D2:373:U:H2'	65:D2:374:U:H6	1.81	0.45
66:D3:300:A:H2'	66:D3:301:A:C8	2.50	0.45
66:D3:490:C:C4	66:D3:498:G:N1	2.85	0.45
66:D3:651:G:H2'	66:D3:652:G:C8	2.52	0.45
66:D3:1575:G:C2	66:D3:1576:A:C4	3.04	0.45
67:D4:64:A:H2'	67:D4:65:C:C6	2.50	0.45
2:DA:28:GLU:OE1	2:DA:50:LYS:HA	2.16	0.45
3:JA:631:SER:H	3:JA:721:HIS:HD1	1.63	0.45
3:JA:858:MET:HA	3:JA:861:MET:HE3	1.99	0.45
4:UA:33:VAL:HG12	4:UA:34:GLY:H	1.82	0.45
4:UA:350:SER:OG	4:UA:392:ALA:HA	2.17	0.45
4:UA:420:ARG:HG3	34:CK:468:ARG:HH22	1.82	0.45
4:UA:713:ASP:OD1	4:UA:746:ASN:ND2	2.50	0.45
1:CB:100:ARG:HA	1:CB:104:ASP:OD1	2.16	0.45
5:UB:568:PHE:CD2	5:UB:643:LEU:HD12	2.52	0.45
5:UB:569:GLN:OE1	5:UB:664:ILE:HD13	2.17	0.45
5:UB:699:PRO:HD3	22:US:442:TYR:CE2	2.52	0.45
7:UD:40:ASP:N	7:UD:40:ASP:OD1	2.49	0.45
7:UD:156:LEU:HD11	7:UD:168:ILE:HB	1.99	0.45
7:UD:649:TRP:HB2	7:UD:654:ILE:HG13	1.99	0.45
10:UG:106:LEU:O	10:UG:397:GLY:HA3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:UG:160:LEU:HD12	10:UG:161:GLN:HB3	1.98	0.45
10:UG:475:ASN:O	10:UG:479:THR:HG22	2.17	0.45
13:UJ:82:ASP:OD1	13:UJ:84:ASN:N	2.36	0.45
15:UL:552:ASP:O	15:UL:554:THR:HG22	2.16	0.45
18:UO:197:ASP:HB3	18:UO:206:ILE:HD11	1.99	0.45
20:UQ:155:THR:OG1	20:UQ:172:ARG:HB2	2.16	0.45
20:UQ:440:VAL:HB	20:UQ:765:TRP:CD2	2.52	0.45
20:UQ:457:VAL:HG13	20:UQ:473:LEU:HD13	1.97	0.45
20:UQ:676:THR:O	20:UQ:695:TYR:N	2.50	0.45
21:UR:170:LYS:HD2	21:UR:170:LYS:HA	1.80	0.45
23:UT:196:LEU:HA	23:UT:199:LEU:HD12	1.97	0.45
23:UT:406:GLU:H	23:UT:406:GLU:CD	2.24	0.45
23:UT:559:ASN:OD1	23:UT:603:LEU:HB2	2.16	0.45
23:UT:870:LEU:HD22	23:UT:889:LYS:HD3	1.99	0.45
23:UT:918:GLU:O	23:UT:922:MET:HG2	2.17	0.45
23:UT:938:THR:OG1	23:UT:942:LYS:NZ	2.23	0.45
23:UT:1088:LYS:HB2	23:UT:1089:PRO:HD3	1.98	0.45
23:UT:1940:LYS:HD3	23:UT:1940:LYS:HA	1.75	0.45
24:UU:135:ASN:HB3	24:UU:159:VAL:HB	1.98	0.45
25:UV:363:THR:HA	25:UV:393:PHE:CE2	2.52	0.45
25:UV:746:LEU:HD11	25:UV:810:ILE:HD11	1.98	0.45
25:UV:865:ARG:NH2	66:D3:1060:U:OP2	2.39	0.45
27:UZ:129:TYR:HE1	27:UZ:155:ARG:HG3	1.82	0.45
30:CG:33:LEU:HD12	30:CG:101:SER:O	2.17	0.45
31:CH:318:LEU:HD23	31:CH:318:LEU:HA	1.72	0.45
31:CH:489:SER:HG	31:CH:499:TRP:HE1	1.62	0.45
35:CL:784:LYS:HG2	35:CL:785:ALA:N	2.32	0.45
36:CM:115:SER:HG	36:CM:167:HIS:HE2	1.61	0.45
37:CN:255:LYS:O	37:CN:265:ARG:NH2	2.49	0.45
38:JC:317:ILE:HD13	38:JC:331:THR:HB	1.98	0.45
39:JF:105:ASN:OD1	39:JF:110:LEU:HD11	2.16	0.45
42:JJ:107:THR:HB	42:JJ:108:PRO:HD3	1.98	0.45
44:JM:108:LYS:HE3	44:JM:108:LYS:HB2	1.71	0.45
45:JN:157:GLN:CD	45:JN:214:ARG:HE	2.24	0.45
47:JP:17:LYS:HE3	47:JP:20:GLN:OE1	2.16	0.45
47:JP:50:LEU:HD23	47:JP:50:LEU:HA	1.80	0.45
47:JP:296:ARG:HE	47:JP:458:LYS:HE2	1.81	0.45
49:DE:132:GLY:O	49:DE:135:GLY:N	2.50	0.45
51:DG:31:ARG:HH12	51:DG:32:ILE:HD12	1.82	0.45
51:DG:173:PRO:HG3	66:D3:66:U:C6	2.51	0.45
53:DI:86:SER:OG	53:DI:87:ASN:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DI:164:ARG:HA	53:DI:164:ARG:HH21	1.77	0.45
53:DI:172:ARG:HH21	53:DI:175:GLN:HE21	1.64	0.45
53:DI:192:TYR:O	53:DI:196:LEU:HG	2.17	0.45
57:DO:20:TYR:HB3	57:DO:27:PHE:CD2	2.51	0.45
58:DQ:57:LEU:O	58:DQ:60:PHE:N	2.44	0.45
60:DW:86:ILE:O	60:DW:90:THR:HG23	2.16	0.45
63:Db:21:LEU:HB3	66:D3:864:U:O2	2.16	0.45
66:D3:1643:U:H2'	66:D3:1644:C:C6	2.52	0.45
66:D3:1692:G:N2	66:D3:1693:A:N3	2.64	0.45
67:D4:68:A:N3	67:D4:69:A:C8	2.84	0.45
67:D4:319:G:C2	67:D4:320:G:C4	3.05	0.45
69:EB:163:LYS:HA	69:EB:186:PRO:HA	1.98	0.45
69:EB:250:LYS:N	70:EC:199:LEU:O	2.43	0.45
76:EI:342:GLU:O	76:EI:346:SER:N	2.48	0.45
2:DA:105:PHE:CE2	2:DA:213:ARG:HA	2.51	0.45
3:JA:727:TYR:CE2	3:JA:760:CYS:HB3	2.51	0.45
3:JA:809:LYS:HA	3:JA:812:GLN:HG2	1.98	0.45
4:UA:169:SER:O	4:UA:194:VAL:HG21	2.17	0.45
4:UA:327:LEU:HD12	4:UA:328:LEU:H	1.82	0.45
4:UA:803:LEU:HD12	24:UU:932:VAL:HG22	1.99	0.45
1:CB:107:VAL:CG2	1:CB:141:TYR:HB3	2.45	0.45
7:UD:250:THR:O	7:UD:252:GLN:N	2.50	0.45
7:UD:387:GLU:C	7:UD:389:ARG:H	2.24	0.45
8:UE:47:ASN:ND2	20:UQ:826:LEU:O	2.50	0.45
8:UE:120:ILE:HD12	8:UE:126:PHE:CD1	2.52	0.45
10:UG:95:VAL:HG12	10:UG:96:ASP:N	2.31	0.45
10:UG:376:ASN:HB3	10:UG:394:HIS:HB2	1.99	0.45
10:UG:451:SER:OG	17:UN:858:GLU:OE2	2.27	0.45
13:UJ:270:LEU:HD13	13:UJ:274:ILE:HG21	1.99	0.45
13:UJ:497:LEU:O	13:UJ:500:GLU:HG3	2.17	0.45
14:UK:16:ARG:HD2	66:D3:556:A:C8	2.52	0.45
14:UK:217:ARG:HH21	65:D2:260:A:C5'	2.30	0.45
15:UL:491:GLY:HA3	15:UL:534:ILE:HD13	1.99	0.45
16:UM:185:THR:C	16:UM:186:LEU:HD22	2.42	0.45
16:UM:267:PHE:HB3	16:UM:281:THR:HG21	1.98	0.45
16:UM:804:TYR:CD2	24:UU:928:PHE:HA	2.52	0.45
18:UO:43:THR:HG22	18:UO:44:HIS:ND1	2.31	0.45
18:UO:147:ARG:HG2	18:UO:170:TYR:H	1.82	0.45
18:UO:231:GLY:O	18:UO:255:VAL:HG22	2.16	0.45
20:UQ:492:ASP:CG	20:UQ:493:PRO:HD2	2.41	0.45
22:US:295:LEU:O	22:US:299:LEU:HG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:US:417:HIS:O	22:US:417:HIS:CG	2.69	0.45
22:US:428:THR:HG23	22:US:431:GLN:H	1.81	0.45
23:UT:145:SER:O	23:UT:149:GLU:OE1	2.33	0.45
23:UT:325:GLU:OE2	23:UT:735:ARG:NH2	2.50	0.45
23:UT:327:GLY:HA2	23:UT:330:ILE:HD13	1.99	0.45
23:UT:1096:ASP:OD1	23:UT:1096:ASP:N	2.49	0.45
23:UT:1464:ARG:HA	23:UT:1467:LYS:HG2	1.99	0.45
23:UT:1614:GLU:HG3	23:UT:1661:ILE:CG2	2.47	0.45
25:UV:939:ILE:HD12	25:UV:942:PHE:HB2	1.99	0.45
25:UV:1082:GLN:HG2	25:UV:1083:GLN:N	2.31	0.45
25:UV:1156:LYS:HG3	25:UV:1157:TYR:CD1	2.49	0.45
28:CD:33:GLU:HB3	47:JP:384:ASN:OD1	2.17	0.45
28:CD:158:TYR:O	28:CD:162:LYS:HG2	2.17	0.45
29:CE:191:HIS:CE1	29:CE:246:GLU:HA	2.52	0.45
31:CH:541:ALA:O	31:CH:543:ILE:HD12	2.17	0.45
32:CI:177:ILE:O	58:DQ:8:GLN:NE2	2.50	0.45
34:CK:452:SER:O	34:CK:453:SER:OG	2.28	0.45
44:JM:206:TYR:CZ	44:JM:210:LYS:HE2	2.51	0.45
46:JO:64:LEU:HB3	46:JO:69:ILE:O	2.17	0.45
49:DE:152:PRO:HD2	51:DG:215:ARG:CZ	2.47	0.45
52:DH:57:ALA:O	52:DH:88:ARG:NH2	2.50	0.45
53:DI:98:LYS:HD2	53:DI:172:ARG:HG3	1.98	0.45
54:DJ:152:SER:O	54:DJ:155:HIS:N	2.50	0.45
58:DQ:24:ALA:HA	58:DQ:63:ILE:HG22	1.99	0.45
65:D2:475:G:C2	65:D2:476:A:C4	3.04	0.45
66:D3:45:U:O4’	66:D3:359:A:H1’	2.17	0.45
66:D3:202:A:C2	66:D3:203:U:H1’	2.51	0.45
66:D3:408:C:H2’	66:D3:409:C:C6	2.51	0.45
66:D3:500:C:HO2’	66:D3:501:U:P	2.40	0.45
66:D3:1598:U:H2’	66:D3:1599:C:H6	1.81	0.45
66:D3:1681:A:H2’	66:D3:1682:U:H4’	1.98	0.45
66:D3:1787:C:H2’	66:D3:1788:G:C8	2.51	0.45
67:D4:113:G:N3	67:D4:256:G:N2	2.64	0.45
77:EJ:223:CYS:HA	77:EJ:286:ARG:HA	1.99	0.45
79:EN:971:ALA:O	79:EN:975:LYS:N	2.39	0.45
1:CA:144:TRP:CE2	1:CA:152:ALA:HB2	2.52	0.45
3:JA:624:ASP:N	3:JA:624:ASP:OD1	2.50	0.45
4:UA:348:THR:HG21	4:UA:696:ALA:HB1	1.99	0.45
1:CB:218:ILE:HD12	1:CB:219:PRO:HD2	1.98	0.45
1:CB:263:ASP:OD1	1:CB:264:GLN:N	2.49	0.45
1:CB:303:GLN:HB3	1:CB:316:VAL:HG12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:UB:686:ASN:C	5:UB:690:LYS:HZ2	2.25	0.45
8:UE:181:VAL:HG23	8:UE:182:MET:H	1.82	0.45
8:UE:226:LEU:HD12	8:UE:256:PHE:CE1	2.52	0.45
10:UG:384:VAL:HG22	10:UG:389:LEU:O	2.17	0.45
13:UJ:1348:LYS:HD2	13:UJ:1392:LEU:HD23	1.98	0.45
15:UL:145:ILE:CG1	15:UL:159:LEU:HB2	2.45	0.45
15:UL:552:ASP:O	15:UL:554:THR:N	2.50	0.45
16:UM:195:GLY:HA3	16:UM:246:CYS:SG	2.57	0.45
16:UM:248:PHE:O	16:UM:249:LEU:HD22	2.17	0.45
16:UM:514:THR:HA	16:UM:529:LEU:O	2.16	0.45
16:UM:532:HIS:HD2	16:UM:533:LYS:H	1.59	0.45
20:UQ:18:GLY:HA3	20:UQ:781:SER:HB2	1.98	0.45
21:UR:517:THR:HG22	21:UR:536:ALA:HB2	1.99	0.45
21:UR:570:PHE:CG	21:UR:577:LEU:HD13	2.52	0.45
23:UT:104:GLN:HB2	23:UT:150:TRP:CE3	2.51	0.45
23:UT:248:HIS:NE2	23:UT:251:ALA:HB2	2.31	0.45
23:UT:493:ASN:OD1	23:UT:496:ILE:HB	2.17	0.45
23:UT:1364:ARG:HH22	23:UT:1410:LEU:HD22	1.82	0.45
23:UT:1463:GLN:HG3	23:UT:1467:LYS:HZ1	1.82	0.45
23:UT:1606:ILE:H	23:UT:1606:ILE:HD12	1.82	0.45
23:UT:1880:ILE:HD11	23:UT:1887:LEU:HA	1.98	0.45
24:UU:488:ASN:OD1	24:UU:489:MET:N	2.50	0.45
24:UU:881:TYR:HA	24:UU:884:PHE:HD2	1.82	0.45
25:UV:134:ILE:O	25:UV:138:ILE:HG12	2.17	0.45
25:UV:533:LEU:HB3	25:UV:606:ASN:ND2	2.32	0.45
25:UV:1209:ASP:HB3	37:CN:10:LYS:HD2	1.99	0.45
25:UV:1233:ASN:OD1	25:UV:1234:PHE:N	2.50	0.45
28:CD:263:ILE:HG21	28:CD:267:ASP:OD2	2.17	0.45
29:CE:215:ARG:NH1	29:CE:242:SER:HB3	2.31	0.45
29:CE:241:VAL:O	29:CE:241:VAL:HG13	2.16	0.45
29:CE:324:LYS:HZ3	67:D4:91:C:P	2.40	0.45
30:CG:56:ALA:HA	30:CG:61:ILE:HD11	1.97	0.45
31:CH:128:GLN:NE2	31:CH:129:GLN:HB3	2.31	0.45
35:CL:831:ARG:HH22	35:CL:877:GLU:HA	1.81	0.45
36:CM:22:VAL:O	36:CM:25:THR:OG1	2.27	0.45
36:CM:174:ILE:O	36:CM:361:ASN:ND2	2.31	0.45
36:CM:185:ARG:NH2	36:CM:347:ASN:HD21	2.15	0.45
39:JF:69:ASN:HB3	39:JF:72:ASP:HB3	1.98	0.45
39:JG:40:ARG:HH11	39:JG:172:PRO:HG3	1.82	0.45
47:JP:147:LEU:HD23	47:JP:173:ILE:HB	1.98	0.45
47:JP:276:ASN:HD21	66:D3:-7:A:N6	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:JP:342:ILE:HD13	47:JP:419:VAL:HG12	1.98	0.45
47:JP:378:LYS:HD2	47:JP:381:GLU:OE2	2.17	0.45
49:DE:40:GLU:HG2	49:DE:40:GLU:O	2.17	0.45
50:DF:180:ARG:HA	50:DF:180:ARG:HD2	1.65	0.45
54:DJ:67:PRO:HD2	54:DJ:68:LYS:H	1.82	0.45
56:DN:7:ALA:O	56:DN:9:LYS:HD3	2.16	0.45
56:DN:98:VAL:HG13	56:DN:115:LEU:HD12	1.98	0.45
65:D2:88:U:H2'	65:D2:89:C:C6	2.52	0.45
65:D2:195:A:H2'	65:D2:196:A:H8	1.82	0.45
66:D3:54:C:O2'	66:D3:459:G:N7	2.45	0.45
66:D3:560:U:N3	66:D3:568:G:C2	2.85	0.45
66:D3:564:G:H1'	66:D3:1596:C:N3	2.32	0.45
66:D3:1026:A:H2'	66:D3:1027:A:O4'	2.17	0.45
66:D3:1128:C:C2	66:D3:1141:G:C2	3.05	0.45
66:D3:1164:G:C2	66:D3:1165:G:C5	3.05	0.45
66:D3:1503:A:H2'	66:D3:1504:G:O4'	2.17	0.45
1:CA:231:ARG:NH2	28:CD:101:SER:HB3	2.31	0.45
3:JA:191:SER:HB2	3:JA:485:TRP:HE1	1.82	0.45
3:JA:567:LEU:HB3	3:JA:584:CYS:HB3	1.99	0.45
4:UA:52:TYR:CD2	4:UA:80:ILE:HD13	2.52	0.45
4:UA:104:PHE:HD2	4:UA:111:PHE:HB3	1.82	0.45
1:CB:254:ALA:O	1:CB:258:HIS:CD2	2.69	0.45
5:UB:672:THR:HG23	5:UB:682:ARG:HD2	1.98	0.45
7:UD:41:PHE:HD1	7:UD:43:PRO:HD3	1.81	0.45
7:UD:150:ASN:ND2	7:UD:198:ASP:OD1	2.50	0.45
7:UD:190:VAL:HA	7:UD:205:CYS:HA	1.99	0.45
8:UE:130:ASP:HB2	8:UE:137:LEU:HD21	1.99	0.45
8:UE:346:HIS:HB2	65:D2:150:G:N3	2.32	0.45
9:UF:31:LEU:C	9:UF:31:LEU:HD12	2.41	0.45
9:UF:152:LYS:CD	44:JM:65:LEU:HD11	2.42	0.45
10:UG:477:ALA:HA	10:UG:515:ARG:NH2	2.31	0.45
12:UI:430:LEU:HD12	12:UI:431:SER:N	2.32	0.45
13:UJ:293:HIS:HA	13:UJ:296:LEU:HD12	1.99	0.45
13:UJ:671:LEU:HD23	13:UJ:675:ASN:OD1	2.17	0.45
13:UJ:1525:GLU:HB3	13:UJ:1529:HIS:CE1	2.51	0.45
13:UJ:1693:GLU:OE2	13:UJ:1694:HIS:ND1	2.49	0.45
13:UJ:1725:LEU:O	13:UJ:1728:GLN:HG3	2.17	0.45
14:UK:116:LYS:HD3	67:D4:323:G:C5'	2.47	0.45
15:UL:351:LEU:C	15:UL:352:GLU:HG3	2.42	0.45
15:UL:498:LYS:HB3	15:UL:500:TRP:NE1	2.32	0.45
15:UL:657:GLN:OE1	15:UL:657:GLN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:UM:126:ILE:HG22	16:UM:147:ILE:HD13	1.99	0.45
16:UM:491:GLU:CD	16:UM:492:LYS:HG3	2.42	0.45
16:UM:513:LYS:HZ2	16:UM:532:HIS:C	2.24	0.45
16:UM:623:LEU:HD12	16:UM:633:VAL:O	2.16	0.45
17:UN:868:GLU:OE1	17:UN:868:GLU:N	2.50	0.45
18:UO:186:THR:CG2	18:UO:194:ARG:HB2	2.47	0.45
20:UQ:55:TYR:CE1	20:UQ:385:ILE:HD12	2.51	0.45
20:UQ:140:LYS:HG3	20:UQ:156:THR:HB	1.99	0.45
20:UQ:172:ARG:HG2	20:UQ:192:GLU:CD	2.42	0.45
20:UQ:320:VAL:HG23	20:UQ:334:LEU:O	2.16	0.45
20:UQ:598:LYS:HB3	20:UQ:638:PHE:CZ	2.51	0.45
20:UQ:872:PHE:HD1	20:UQ:875:MET:HE1	1.80	0.45
21:UR:404:ILE:H	21:UR:404:ILE:HD12	1.81	0.45
22:US:411:ASN:O	22:US:414:ILE:HG12	2.17	0.45
23:UT:77:LEU:HD22	31:CH:67:ALA:HB3	1.97	0.45
23:UT:318:LEU:O	23:UT:322:VAL:HG23	2.17	0.45
23:UT:413:GLY:HA2	23:UT:416:PHE:HD2	1.81	0.45
23:UT:538:LEU:O	23:UT:542:LEU:HG	2.17	0.45
23:UT:1148:GLY:HA2	23:UT:1151:ILE:HD12	1.99	0.45
23:UT:1198:PHE:O	23:UT:1202:LEU:HG	2.17	0.45
24:UU:902:ASN:HD22	24:UU:905:ILE:HG23	1.81	0.45
25:UV:332:TYR:O	25:UV:336:VAL:HG12	2.17	0.45
25:UV:903:SER:O	25:UV:906:TYR:C	2.59	0.45
29:CE:145:HIS:HB3	29:CE:149:ARG:NH2	2.31	0.45
30:CG:54:MET:HB3	30:CG:54:MET:HE2	1.64	0.45
31:CH:120:ARG:HH12	31:CH:532:HIS:CG	2.34	0.45
31:CH:471:GLN:OE1	31:CH:471:GLN:N	2.50	0.45
32:CI:154:MET:HE2	32:CI:154:MET:HA	1.98	0.45
34:CK:335:ARG:HH22	35:CL:934:LEU:HD22	1.81	0.45
35:CL:237:TRP:HZ2	35:CL:850:GLY:HA2	1.81	0.45
35:CL:778:GLN:HB3	35:CL:779:ARG:HD3	1.98	0.45
36:CM:243:ILE:HG23	36:CM:275:VAL:HG21	1.99	0.45
45:JN:164:LEU:HD13	45:JN:210:THR:HG22	1.97	0.45
45:JN:236:MET:SD	66:D3:8:U:C4	3.10	0.45
45:JN:329:ILE:HD11	60:DW:89:TRP:CZ2	2.51	0.45
47:JP:301:PHE:CD1	47:JP:337:GLY:HA2	2.52	0.45
49:DE:43:PRO:HB2	49:DE:45:ILE:HG22	1.99	0.45
49:DE:118:GLU:HG3	49:DE:121:TYR:CE1	2.52	0.45
49:DE:118:GLU:HG3	49:DE:121:TYR:CZ	2.52	0.45
50:DF:216:GLU:HA	50:DF:219:ARG:HG2	1.99	0.45
51:DG:174:LYS:HB2	66:D3:79:C:H1'	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DI:26:LYS:HD3	66:D3:400:A:C2	2.52	0.45
53:DI:110:ARG:HH21	53:DI:160:PHE:C	2.25	0.45
58:DQ:40:GLU:O	58:DQ:42:GLU:HG3	2.17	0.45
62:DY:11:LYS:O	62:DY:13:ILE:HG12	2.17	0.45
65:D2:97:G:H3'	65:D2:98:G:H21	1.82	0.45
65:D2:346:G:H1	65:D2:378:C:H42	1.64	0.45
65:D2:415:U:H2'	65:D2:416:A:C8	2.52	0.45
65:D2:444:U:H2'	65:D2:445:U:O4'	2.17	0.45
66:D3:325:G:H2'	66:D3:326:G:C8	2.52	0.45
66:D3:646:C:H2'	66:D3:647:G:C8	2.52	0.45
66:D3:793:A:H62	66:D3:798:C:H41	1.63	0.45
66:D3:954:G:C6	66:D3:955:A:C6	3.04	0.45
70:EC:166:TYR:O	70:EC:169:THR:N	2.39	0.45
3:JA:91:MET:HB3	3:JA:91:MET:HE3	1.76	0.45
3:JA:196:PRO:O	3:JA:213:ALA:N	2.43	0.45
3:JA:805:ILE:O	3:JA:808:SER:OG	2.24	0.45
7:UD:81:PRO:HB3	7:UD:85:TRP:CZ3	2.51	0.45
7:UD:396:GLU:O	7:UD:398:THR:HG23	2.16	0.45
7:UD:570:ILE:HD12	7:UD:584:VAL:HG21	1.98	0.45
8:UE:120:ILE:HG13	8:UE:151:LEU:HB2	1.99	0.45
8:UE:354:THR:OG1	20:UQ:471:GLN:HG3	2.17	0.45
10:UG:450:GLY:O	17:UN:861:LEU:HD11	2.17	0.45
13:UJ:559:ASN:CG	13:UJ:595:THR:H	2.24	0.45
13:UJ:1665:TYR:OH	67:D4:144:G:OP2	2.34	0.45
13:UJ:1708:ILE:HG22	13:UJ:1712:LYS:HE2	1.99	0.45
15:UL:408:THR:HG21	15:UL:447:LEU:CD1	2.46	0.45
15:UL:411:ASN:C	15:UL:413:SER:H	2.25	0.45
16:UM:173:LYS:HB3	16:UM:175:TRP:CZ3	2.52	0.45
16:UM:256:ARG:O	16:UM:272:SER:HB3	2.16	0.45
16:UM:395:ASP:HB2	16:UM:440:VAL:HG23	1.99	0.45
16:UM:590:LEU:O	16:UM:601:ILE:HD12	2.16	0.45
21:UR:238:LEU:HD23	21:UR:279:GLY:HA2	1.99	0.45
22:US:321:ASN:HA	22:US:361:LEU:CD2	2.46	0.45
23:UT:44:SER:O	31:CH:63:ARG:NH2	2.28	0.45
23:UT:115:HIS:HB2	23:UT:161:TYR:CE2	2.51	0.45
23:UT:249:SER:HA	23:UT:252:LYS:HG2	1.98	0.45
23:UT:488:TYR:CE2	23:UT:490:LYS:HD3	2.52	0.45
23:UT:692:ASP:OD2	23:UT:695:LEU:HD12	2.17	0.45
23:UT:886:ASP:HB2	38:JC:24:SER:OG	2.17	0.45
23:UT:1127:PHE:HE2	23:UT:1169:ASP:HB3	1.81	0.45
23:UT:1309:ASN:HA	23:UT:1312:SER:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:1655:ARG:HE	23:UT:1693:THR:HG22	1.82	0.45
24:UU:21:SER:OG	24:UU:22:LYS:N	2.50	0.45
24:UU:128:LEU:HB3	24:UU:140:TYR:HB2	1.98	0.45
24:UU:555:SER:HB3	24:UU:557:LEU:HD22	1.99	0.45
25:UV:528:ASP:HA	25:UV:614:ARG:NH2	2.22	0.45
25:UV:834:ASN:HD21	25:UV:837:ILE:HD11	1.82	0.45
25:UV:932:GLU:O	25:UV:936:LEU:HD23	2.17	0.45
25:UV:1228:ASN:OD1	25:UV:1229:ASP:N	2.47	0.45
27:UZ:103:VAL:HG11	27:UZ:131:VAL:HG11	1.99	0.45
28:CD:183:GLN:NE2	28:CD:187:ASP:OD2	2.49	0.45
29:CE:291:VAL:HG22	29:CE:295:VAL:HG21	1.98	0.45
31:CH:326:GLU:CG	31:CH:341:ALA:HB2	2.47	0.45
31:CH:421:ASN:HA	31:CH:436:GLU:O	2.16	0.45
36:CM:207:ARG:NE	36:CM:268:PRO:HG2	2.32	0.45
39:JF:41:MET:O	39:JF:110:LEU:HA	2.17	0.45
39:JF:80:MET:HG3	39:JF:82:ARG:HE	1.82	0.45
39:JF:169:ASP:OD1	39:JF:169:ASP:N	2.50	0.45
46:JO:258:ARG:CZ	56:DN:127:ARG:HH12	2.29	0.45
47:JP:134:ASN:OD1	47:JP:152:VAL:HG11	2.17	0.45
47:JP:453:TYR:CE2	66:D3:-2:A:C4	3.05	0.45
49:DE:182:TYR:O	49:DE:226:PHE:N	2.24	0.45
52:DH:58:LEU:HD21	52:DH:90:VAL:HG12	1.99	0.45
53:DI:41:LYS:HD3	53:DI:61:GLU:HG2	1.98	0.45
55:DL:111:VAL:HG12	55:DL:139:VAL:HG11	1.98	0.45
56:DN:32:SER:HA	56:DN:35:GLU:CD	2.42	0.45
63:Db:40:CYS:HB2	63:Db:42:ASN:CG	2.41	0.45
65:D2:173:G:H2'	65:D2:174:U:H6	1.82	0.45
65:D2:191:U:H2'	65:D2:192:G:H8	1.82	0.45
65:D2:462:G:C5	65:D2:463:A:N7	2.85	0.45
66:D3:196:G:O2'	66:D3:197:A:O5'	2.28	0.45
66:D3:279:G:C8	66:D3:280:U:H4'	2.49	0.45
66:D3:762:A:H3'	66:D3:763:G:H8	1.82	0.45
66:D3:823:G:H1'	66:D3:850:A:N1	2.33	0.45
66:D3:956:C:O2'	66:D3:1047:G:N3	2.48	0.45
66:D3:1154:G:N2	66:D3:1155:G:C4	2.85	0.45
78:EK:327:LYS:O	78:EK:387:GLN:N	2.34	0.45
79:EN:353:PHE:O	79:EN:357:MET:N	2.42	0.45
1:CA:233:LEU:O	1:CA:234:ILE:HD13	2.17	0.44
3:JA:2:ALA:HB3	3:JA:4:LYS:NZ	2.32	0.44
4:UA:521:LEU:HD11	4:UA:530:VAL:CG1	2.47	0.44
5:UB:628:PRO:HD2	5:UB:631:GLN:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:UB:798:LYS:O	5:UB:802:GLU:HG3	2.17	0.44
6:UC:544:ILE:HD13	35:CL:834:TRP:CE2	2.52	0.44
6:UC:566:ARG:NH1	66:D3:479:C:OP1	2.49	0.44
7:UD:113:ARG:HD3	7:UD:174:PRO:HB3	2.00	0.44
7:UD:190:VAL:HG23	7:UD:205:CYS:HB3	1.99	0.44
7:UD:757:ARG:HE	7:UD:759:PRO:HB3	1.82	0.44
9:UF:68:ALA:O	9:UF:72:LYS:HG2	2.17	0.44
10:UG:483:ILE:HG13	10:UG:516:VAL:HG22	1.98	0.44
10:UG:508:VAL:HG12	46:JO:73:LEU:HB3	1.99	0.44
11:UH:679:ILE:HA	12:UI:460:LEU:HD11	1.99	0.44
13:UJ:1357:ASN:O	13:UJ:1360:GLN:HG2	2.17	0.44
14:UK:229:SER:OG	14:UK:245:LYS:HB3	2.16	0.44
15:UL:272:PHE:CZ	15:UL:284:PHE:HB2	2.53	0.44
15:UL:408:THR:HG21	15:UL:447:LEU:HD11	1.98	0.44
15:UL:416:ILE:HG12	15:UL:459:LEU:HD11	1.98	0.44
16:UM:509:ALA:HB2	16:UM:515:CYS:HB2	1.99	0.44
18:UO:51:HIS:HD1	18:UO:53:HIS:CG	2.35	0.44
20:UQ:47:PRO:HB3	20:UQ:52:ILE:HD12	1.99	0.44
20:UQ:414:ILE:H	20:UQ:414:ILE:HD12	1.82	0.44
20:UQ:467:GLN:HE21	20:UQ:469:ASN:C	2.24	0.44
21:UR:361:ALA:C	21:UR:374:ILE:HG22	2.42	0.44
21:UR:396:MET:HE3	21:UR:440:ASN:OD1	2.17	0.44
21:UR:562:LEU:O	21:UR:581:ASN:ND2	2.35	0.44
22:US:426:PHE:CE2	39:JG:250:ASN:HB3	2.52	0.44
23:UT:509:ALA:HA	23:UT:547:ASN:HD21	1.81	0.44
23:UT:1722:MET:HE1	23:UT:1772:PRO:HB2	1.99	0.44
23:UT:1914:THR:O	23:UT:1918:LEU:HD23	2.17	0.44
25:UV:389:GLY:N	25:UV:392:GLU:OE1	2.32	0.44
25:UV:587:GLY:HA3	25:UV:611:ASP:N	2.32	0.44
25:UV:723:ASN:O	25:UV:724:LEU:HD23	2.17	0.44
25:UV:916:PHE:CE2	25:UV:920:LEU:HD11	2.52	0.44
25:UV:1136:LEU:HD13	37:CN:174:PRO:HG2	1.99	0.44
28:CD:205:GLU:HG2	28:CD:254:ASN:HB3	1.99	0.44
28:CD:389:ILE:HA	30:CG:62:GLU:HG2	1.98	0.44
28:CD:395:GLU:O	31:CH:454:GLU:HG3	2.17	0.44
29:CE:98:ILE:O	29:CE:101:LEU:HG	2.17	0.44
29:CE:404:ARG:HD2	29:CE:404:ARG:C	2.42	0.44
30:CG:33:LEU:HD11	30:CG:100:ALA:HB1	1.99	0.44
31:CH:458:GLU:OE1	31:CH:462:ARG:NH1	2.50	0.44
39:JF:190:GLN:O	39:JF:193:ILE:N	2.50	0.44
39:JF:196:LEU:HD21	39:JF:202:ILE:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:JF:232:LEU:HD23	39:JF:236:VAL:HG23	1.98	0.44
39:JG:90:ASP:O	39:JG:93:HIS:N	2.50	0.44
45:JN:275:ILE:H	45:JN:278:THR:HG22	1.81	0.44
47:JP:314:SER:HB3	47:JP:356:TYR:CE2	2.51	0.44
49:DE:195:ILE:HG22	49:DE:210:ILE:HG13	1.99	0.44
50:DF:214:LYS:HG2	50:DF:218:GLU:OE2	2.17	0.44
51:DG:211:LEU:HD12	51:DG:214:LYS:HE2	1.99	0.44
65:D2:270:U:H2'	65:D2:271:G:O4'	2.17	0.44
66:D3:0:U:H4'	66:D3:1:U:C5'	2.47	0.44
66:D3:95:G:C5	66:D3:96:G:C8	3.05	0.44
66:D3:212:U:O4	66:D3:213:A:N6	2.50	0.44
66:D3:568:G:C2	66:D3:569:C:C2	3.06	0.44
66:D3:905:A:C2	66:D3:906:A:H1'	2.52	0.44
66:D3:1260:U:H2'	66:D3:1261:G:C8	2.52	0.44
66:D3:1659:A:H2'	66:D3:1660:A:H8	1.82	0.44
67:D4:14:A:N7	67:D4:15:U:N3	2.64	0.44
67:D4:147:C:N3	67:D4:165:G:N1	2.42	0.44
69:EB:286:ASP:O	69:EB:290:ARG:N	2.43	0.44
70:EC:164:GLY:O	70:EC:171:LEU:N	2.43	0.44
1:CA:109:LYS:HE2	1:CA:141:TYR:CE2	2.52	0.44
4:UA:403:PHE:CD1	4:UA:438:VAL:HG11	2.53	0.44
4:UA:753:LYS:O	4:UA:756:GLU:HG3	2.17	0.44
7:UD:327:LEU:HD23	7:UD:327:LEU:H	1.82	0.44
7:UD:773:LYS:NZ	65:D2:83:U:H3	2.15	0.44
8:UE:8:SER:O	8:UE:293:ASN:ND2	2.50	0.44
10:UG:74:LEU:HD22	10:UG:83:THR:HB	1.98	0.44
10:UG:289:MET:HB2	10:UG:303:ILE:HD11	1.98	0.44
10:UG:358:MET:HA	10:UG:358:MET:HE2	1.99	0.44
12:UI:510:ALA:N	12:UI:513:ARG:HH21	2.15	0.44
13:UJ:102:LEU:HD13	13:UJ:135:LEU:HA	1.99	0.44
13:UJ:564:VAL:HA	13:UJ:567:LEU:HG	2.00	0.44
13:UJ:1569:THR:O	13:UJ:1573:LEU:HD23	2.18	0.44
15:UL:398:ASP:OD1	15:UL:399:ILE:N	2.44	0.44
16:UM:42:ILE:O	16:UM:53:LEU:N	2.50	0.44
16:UM:148:SER:O	16:UM:194:ARG:NH2	2.51	0.44
16:UM:463:ILE:HG12	16:UM:487:ARG:O	2.18	0.44
16:UM:537:TRP:HD1	16:UM:553:GLY:HA2	1.76	0.44
20:UQ:765:TRP:CG	20:UQ:766:ILE:N	2.85	0.44
20:UQ:771:ASP:O	20:UQ:772:THR:OG1	2.35	0.44
20:UQ:892:MET:HE2	20:UQ:892:MET:HA	2.00	0.44
21:UR:45:ILE:H	21:UR:45:ILE:HD12	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:US:270:SER:OG	22:US:273:GLN:HG2	2.16	0.44
22:US:399:ILE:CD1	22:US:480:LEU:HB3	2.46	0.44
23:UT:128:ALA:O	23:UT:132:LEU:HG	2.17	0.44
23:UT:498:ILE:CG2	23:UT:499:PRO:HD3	2.46	0.44
23:UT:1023:LEU:HD23	23:UT:1078:SER:HB3	1.97	0.44
23:UT:1189:LEU:HD23	23:UT:1198:PHE:HE2	1.81	0.44
23:UT:1375:ILE:HD13	23:UT:1424:MET:HB3	1.98	0.44
25:UV:932:GLU:HA	25:UV:935:GLU:OE2	2.18	0.44
26:UX:84:ARG:NH2	60:DW:97:ARG:NH1	2.63	0.44
26:UX:121:ARG:NH1	47:JP:369:ASP:O	2.26	0.44
26:UX:121:ARG:O	47:JP:67:ARG:NH1	2.49	0.44
29:CE:16:LYS:N	29:CE:45:ALA:HB2	2.32	0.44
29:CE:50:PHE:HD2	29:CE:51:ASN:O	2.00	0.44
31:CH:458:GLU:OE2	31:CH:459:LEU:HG	2.17	0.44
32:CI:90:THR:HG22	32:CI:91:LYS:H	1.82	0.44
33:CJ:162:THR:HG23	33:CJ:264:GLY:O	2.16	0.44
35:CL:1138:ARG:NH1	66:D3:492:A:C8	2.84	0.44
37:CN:4:GLU:O	37:CN:149:ALA:HA	2.18	0.44
37:CN:16:VAL:HG13	37:CN:144:TYR:CD2	2.52	0.44
38:JC:160:ASN:ND2	38:JC:179:ASP:HA	2.33	0.44
39:JF:89:PRO:O	39:JF:92:THR:OG1	2.31	0.44
46:JO:190:CYS:HB2	46:JO:196:PRO:HG3	1.98	0.44
47:JP:350:HIS:HB2	47:JP:368:ASP:HB3	2.00	0.44
50:DF:31:GLU:HA	50:DF:34:GLN:OE1	2.17	0.44
50:DF:45:LYS:HE2	50:DF:46:TRP:CH2	2.52	0.44
50:DF:200:ASN:ND2	50:DF:208:SER:HB3	2.32	0.44
54:DJ:157:ASP:OD2	54:DJ:158:PHE:N	2.45	0.44
65:D2:8:A:C5	65:D2:9:G:H1'	2.52	0.44
65:D2:415:U:C2	65:D2:416:A:C8	3.05	0.44
66:D3:445:A:C8	66:D3:525:A:C8	3.06	0.44
66:D3:761:G:H8	66:D3:763:G:N7	2.15	0.44
66:D3:892:A:C6	66:D3:921:U:N3	2.85	0.44
66:D3:1035:G:N2	66:D3:1083:G:C8	2.86	0.44
66:D3:1170:G:C6	66:D3:1574:G:C4	3.05	0.44
66:D3:1658:G:H2'	66:D3:1659:A:C8	2.52	0.44
66:D3:1707:A:C5	66:D3:1708:U:C4	3.05	0.44
66:D3:1734:U:H2'	66:D3:1735:U:C6	2.52	0.44
66:D3:1750:A:H2'	66:D3:1751:C:H6	1.83	0.44
1:CA:121:LYS:HE2	1:CA:121:LYS:HB3	1.60	0.44
2:DA:33:LYS:HE2	2:DA:42:ASN:HB3	2.00	0.44
2:DA:243:LYS:H	25:UV:656:ARG:HE	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JA:568:LEU:HD11	3:JA:580:PRO:HB2	1.99	0.44
4:UA:585:TYR:CD1	4:UA:592:ILE:HG12	2.53	0.44
1:CB:180:SER:O	1:CB:184:VAL:HG13	2.18	0.44
5:UB:612:THR:HG23	5:UB:614:ILE:N	2.32	0.44
7:UD:127:ASP:N	7:UD:132:LEU:O	2.33	0.44
10:UG:134:VAL:HG11	10:UG:168:VAL:HG11	2.00	0.44
10:UG:172:LYS:HB3	10:UG:173:TYR:CD2	2.53	0.44
11:UH:527:LEU:HB2	11:UH:553:GLN:NE2	2.33	0.44
12:UI:437:ILE:HG22	12:UI:456:LEU:HD12	1.98	0.44
13:UJ:345:ASP:OD1	13:UJ:346:LYS:N	2.51	0.44
13:UJ:763:LEU:HB3	13:UJ:768:LYS:HZ3	1.82	0.44
13:UJ:1744:ILE:O	13:UJ:1748:VAL:HG12	2.17	0.44
14:UK:137:VAL:HG12	14:UK:139:SER:H	1.82	0.44
15:UL:134:THR:C	15:UL:135:ARG:HE	2.26	0.44
15:UL:167:THR:HG21	15:UL:207:CYS:O	2.17	0.44
15:UL:760:ILE:O	15:UL:764:GLU:OE1	2.35	0.44
15:UL:821:LEU:HD22	15:UL:860:ILE:HD11	1.98	0.44
16:UM:109:ASP:OD2	16:UM:109:ASP:N	2.50	0.44
16:UM:464:LYS:HA	16:UM:486:THR:HA	1.98	0.44
16:UM:669:LEU:HD12	16:UM:684:LEU:HB3	2.00	0.44
18:UO:445:TRP:CZ3	18:UO:448:LYS:HD2	2.52	0.44
20:UQ:321:MET:CE	20:UQ:356:LEU:HD13	2.48	0.44
20:UQ:665:ILE:HG22	20:UQ:669:ASN:HB2	1.99	0.44
20:UQ:745:ILE:O	20:UQ:754:LEU:N	2.50	0.44
22:US:156:TRP:CZ3	22:US:212:LEU:HA	2.52	0.44
22:US:188:PHE:HA	22:US:237:GLU:O	2.18	0.44
22:US:470:MET:HE1	22:US:485:ALA:HB2	1.99	0.44
23:UT:760:THR:HA	23:UT:763:GLU:HG3	1.99	0.44
23:UT:1399:LEU:HG	23:UT:1400:PRO:HD3	1.98	0.44
23:UT:1533:MET:O	23:UT:1537:LYS:HG2	2.18	0.44
24:UU:51:VAL:HG13	24:UU:58:PHE:HD2	1.82	0.44
24:UU:510:LEU:HD23	24:UU:511:ASP:O	2.17	0.44
25:UV:122:LEU:HA	25:UV:125:GLU:HG3	1.98	0.44
25:UV:316:ARG:HG2	66:D3:1697:G:OP1	2.17	0.44
25:UV:705:HIS:O	25:UV:708:LEU:HB2	2.17	0.44
25:UV:1038:GLN:OE1	25:UV:1038:GLN:N	2.51	0.44
25:UV:1136:LEU:HB2	37:CN:174:PRO:HG2	1.99	0.44
26:UX:60:LYS:HE3	54:DJ:100:LYS:NZ	2.33	0.44
26:UX:91:LEU:HD13	54:DJ:54:ARG:HH11	1.80	0.44
28:CD:175:ILE:O	28:CD:178:ILE:HG22	2.18	0.44
28:CD:195:VAL:HG13	28:CD:216:PHE:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:CD:398:ASN:OD1	28:CD:398:ASN:N	2.49	0.44
31:CH:342:ARG:O	31:CH:344:ARG:HG3	2.17	0.44
32:CI:141:ASN:OD1	32:CI:141:ASN:O	2.35	0.44
33:CJ:89:ILE:HG22	33:CJ:91:THR:OG1	2.17	0.44
33:CJ:206:LEU:HB3	33:CJ:224:PHE:HE2	1.83	0.44
34:CK:366:GLU:HB3	34:CK:370:ARG:NH2	2.30	0.44
35:CL:368:LYS:NZ	35:CL:369:ASP:OD2	2.36	0.44
35:CL:760:LYS:O	35:CL:764:ILE:HG12	2.17	0.44
38:JC:73:ALA:O	38:JC:81:ILE:HA	2.18	0.44
38:JC:171:ARG:HH11	43:JK:469:GLN:H	1.66	0.44
38:JC:257:LEU:HG	43:JK:493:PHE:CE2	2.52	0.44
39:JF:69:ASN:HB3	39:JF:72:ASP:CB	2.47	0.44
39:JG:141:MET:HE3	39:JG:141:MET:HB3	1.76	0.44
39:JG:190:GLN:HE22	39:JG:248:ALA:HA	1.81	0.44
42:JJ:193:LEU:HD23	42:JJ:193:LEU:HA	1.83	0.44
50:DF:27:THR:O	50:DF:29:ILE:HG12	2.17	0.44
57:DO:15:GLY:O	57:DO:79:VAL:HA	2.17	0.44
58:DQ:123:ARG:HA	58:DQ:123:ARG:NH2	2.33	0.44
65:D2:166:U:C4	65:D2:167:U:C4	3.05	0.44
65:D2:292:A:N1	67:D4:62:C:C4	2.86	0.44
65:D2:376:U:H2'	65:D2:377:U:C6	2.52	0.44
65:D2:423:C:C2	65:D2:435:G:C2	3.06	0.44
66:D3:103:A:H2'	66:D3:309:C:N4	2.31	0.44
66:D3:336:G:H3'	66:D3:338:C:C5	2.52	0.44
66:D3:890:C:H2'	66:D3:891:A:H8	1.81	0.44
66:D3:940:A:H2'	66:D3:941:A:C8	2.53	0.44
66:D3:1056:U:H3'	66:D3:1057:U:H6	1.82	0.44
66:D3:1116:A:C6	66:D3:1117:U:C4	3.06	0.44
3:JA:511:SER:OG	3:JA:512:GLN:OE1	2.35	0.44
3:JA:841:ARG:NH1	3:JA:857:ASP:HB2	2.33	0.44
3:JA:874:SER:HB3	3:JA:923:TYR:CE1	2.52	0.44
4:UA:345:PHE:CE2	4:UA:677:PRO:HG2	2.51	0.44
4:UA:369:ILE:HD11	4:UA:390:VAL:HG11	1.99	0.44
4:UA:478:CYS:SG	4:UA:520:ALA:HA	2.57	0.44
4:UA:564:PHE:CE1	4:UA:576:ARG:HD2	2.53	0.44
1:CB:267:VAL:HG22	1:CB:269:ILE:HD11	1.98	0.44
5:UB:588:PHE:HZ	5:UB:666:GLN:HB3	1.82	0.44
7:UD:316:LYS:HD3	7:UD:316:LYS:HA	1.82	0.44
9:UF:110:TRP:CE3	9:UF:136:LEU:HD13	2.53	0.44
9:UF:332:ASP:N	9:UF:332:ASP:OD1	2.49	0.44
10:UG:95:VAL:HG12	10:UG:96:ASP:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:UG:113:PRO:HA	10:UG:395:GLN:HA	2.00	0.44
10:UG:138:ASP:O	10:UG:138:ASP:OD2	2.35	0.44
10:UG:187:LEU:HD21	32:CI:21:TRP:HZ3	1.83	0.44
10:UG:449:ILE:HG22	10:UG:449:ILE:O	2.17	0.44
13:UJ:340:ASP:OD1	13:UJ:340:ASP:N	2.50	0.44
13:UJ:1380:LEU:HD12	13:UJ:1380:LEU:HA	1.73	0.44
13:UJ:1605:LEU:HD23	13:UJ:1608:PHE:CD2	2.52	0.44
15:UL:40:GLN:HA	15:UL:53:ASP:HA	2.00	0.44
15:UL:466:ASP:OD1	15:UL:467:THR:N	2.50	0.44
15:UL:521:LYS:HG3	15:UL:523:HIS:NE2	2.33	0.44
15:UL:576:VAL:HA	15:UL:592:SER:HA	1.98	0.44
15:UL:589:ILE:HD12	15:UL:621:VAL:HB	1.99	0.44
15:UL:633:CYS:HB2	15:UL:660:VAL:CG1	2.47	0.44
15:UL:747:LYS:HG2	64:Dc:65:ARG:NH2	2.32	0.44
15:UL:767:GLU:HA	15:UL:770:ASN:OD1	2.16	0.44
15:UL:839:VAL:O	15:UL:842:ASN:C	2.59	0.44
20:UQ:105:HIS:CE1	20:UQ:122:LYS:HD2	2.53	0.44
22:US:399:ILE:CG1	22:US:400:PRO:HD3	2.47	0.44
23:UT:19:PHE:CZ	23:UT:23:ILE:HD11	2.52	0.44
23:UT:233:LEU:HD12	23:UT:278:ILE:HG22	1.99	0.44
23:UT:922:MET:O	23:UT:926:LEU:N	2.40	0.44
23:UT:1640:CYS:CB	23:UT:1680:THR:HG21	2.43	0.44
23:UT:1670:LEU:HA	23:UT:1673:VAL:HG12	2.00	0.44
24:UU:882:GLU:OE1	24:UU:916:HIS:HE1	2.00	0.44
25:UV:256:TYR:CZ	25:UV:594:ILE:HG23	2.52	0.44
25:UV:604:GLY:HA2	25:UV:611:ASP:O	2.17	0.44
25:UV:903:SER:O	25:UV:906:TYR:N	2.50	0.44
25:UV:1205:LYS:N	25:UV:1213:ILE:O	2.32	0.44
27:UZ:176:VAL:HA	27:UZ:179:GLN:OE1	2.17	0.44
28:CD:180:LEU:CD2	29:CE:183:ARG:HG2	2.45	0.44
29:CE:155:SER:HB3	29:CE:158:LYS:CD	2.47	0.44
29:CE:307:ILE:O	29:CE:311:LYS:HB2	2.18	0.44
29:CE:309:LEU:HG	29:CE:371:LEU:CD2	2.43	0.44
30:CG:39:GLU:O	30:CG:43:THR:HG23	2.16	0.44
30:CG:56:ALA:HB2	30:CG:80:PHE:HB3	1.98	0.44
31:CH:401:SER:OG	31:CH:402:ILE:N	2.51	0.44
31:CH:545:LYS:HD2	31:CH:559:ALA:HB3	2.00	0.44
32:CI:25:GLN:O	32:CI:25:GLN:HG2	2.18	0.44
32:CI:113:VAL:CG2	32:CI:124:ILE:HD11	2.47	0.44
33:CJ:124:MET:HE1	33:CJ:127:LEU:HD13	1.98	0.44
34:CK:493:GLN:OE1	34:CK:493:GLN:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:CN:18:PHE:HZ	37:CN:70:PHE:CE1	2.36	0.44
39:JG:104:ILE:HG23	39:JG:110:LEU:HD22	1.99	0.44
45:JN:280:LYS:HE3	65:D2:382:U:C5	2.52	0.44
46:JO:90:ASP:O	46:JO:93:ILE:N	2.50	0.44
47:JP:240:SER:O	47:JP:240:SER:OG	2.27	0.44
49:DE:53:LYS:C	49:DE:55:ALA:H	2.25	0.44
51:DG:93:LYS:CD	66:D3:405:C:H5"	2.48	0.44
61:DX:48:HIS:HE1	66:D3:599:A:N3	2.16	0.44
61:DX:109:ARG:HH22	61:DX:118:PRO:HA	1.82	0.44
65:D2:414:G:H2'	65:D2:415:U:C6	2.53	0.44
66:D3:413:U:H2'	66:D3:414:C:C6	2.53	0.44
66:D3:1590:G:H8	66:D3:1590:G:O5'	1.99	0.44
66:D3:1654:G:H2'	66:D3:1655:A:C8	2.50	0.44
67:D4:78:G:C6	67:D4:330:A:C6	3.05	0.44
67:D4:332:G:H2'	67:D4:333:U:O4'	2.16	0.44
79:EN:401:ILE:O	79:EN:405:LYS:N	2.50	0.44
3:JA:552:ASP:OD1	3:JA:552:ASP:N	2.48	0.44
3:JA:855:ILE:O	3:JA:859:ILE:HG23	2.17	0.44
3:JA:884:ILE:O	3:JA:888:ILE:HG12	2.17	0.44
4:UA:62:ASP:OD1	4:UA:63:LEU:N	2.50	0.44
4:UA:83:ASN:HB2	4:UA:90:LEU:CD1	2.46	0.44
3:JB:55:VAL:O	3:JB:103:ILE:HA	2.17	0.44
5:UB:476:ASP:HA	5:UB:479:ASN:ND2	2.32	0.44
5:UB:605:ASP:HB2	5:UB:607:THR:HG23	2.00	0.44
8:UE:113:MET:HE1	8:UE:157:GLY:O	2.17	0.44
10:UG:409:ALA:HA	47:JP:6:ILE:HD13	2.00	0.44
10:UG:511:GLU:O	10:UG:515:ARG:HG2	2.17	0.44
11:UH:534:LEU:O	11:UH:537:THR:OG1	2.33	0.44
11:UH:564:ASN:HB2	11:UH:565:GLU:OE1	2.17	0.44
13:UJ:412:GLU:O	13:UJ:416:LEU:HG	2.17	0.44
13:UJ:786:TYR:CZ	29:CE:85:SER:HA	2.52	0.44
14:UK:51:LEU:HA	14:UK:51:LEU:HD23	1.80	0.44
14:UK:160:ASN:ND2	65:D2:206:A:H5"	2.32	0.44
15:UL:100:ASP:O	15:UL:100:ASP:OD2	2.35	0.44
15:UL:410:SER:HB2	15:UL:432:TYR:CZ	2.52	0.44
15:UL:558:PHE:CD1	15:UL:565:PHE:HA	2.53	0.44
15:UL:941:THR:HG22	66:D3:1632:C:N4	2.33	0.44
16:UM:362:LEU:HD11	16:UM:384:TYR:CD2	2.53	0.44
16:UM:462:THR:HA	16:UM:488:HIS:HA	2.00	0.44
20:UQ:363:ASN:ND2	20:UQ:366:ASN:O	2.48	0.44
20:UQ:381:SER:O	20:UQ:381:SER:OG	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UQ:390:PRO:HG2	20:UQ:392:PHE:CZ	2.52	0.44
20:UQ:628:ASP:H	20:UQ:658:GLU:HA	1.82	0.44
21:UR:237:ARG:C	21:UR:238:LEU:HD12	2.42	0.44
21:UR:560:THR:HG22	65:D2:280:A:OP1	2.17	0.44
22:US:188:PHE:HB3	22:US:190:ASP:OD1	2.18	0.44
23:UT:100:GLU:HA	23:UT:103:LEU:HD12	2.00	0.44
23:UT:146:ASN:HA	23:UT:149:GLU:OE2	2.18	0.44
23:UT:277:ASP:O	23:UT:280:MET:HG3	2.18	0.44
23:UT:542:LEU:HD21	23:UT:575:MET:HE1	1.99	0.44
23:UT:692:ASP:HB3	23:UT:695:LEU:HB2	1.99	0.44
23:UT:1312:SER:O	23:UT:1316:MET:HG2	2.17	0.44
23:UT:1543:GLN:O	23:UT:1546:GLN:HG2	2.18	0.44
23:UT:1847:LEU:HA	54:DJ:94:ASP:OD2	2.17	0.44
24:UU:166:GLU:O	24:UU:184:THR:OG1	2.36	0.44
24:UU:226:VAL:HG23	24:UU:250:ARG:HG3	1.98	0.44
24:UU:295:TYR:OH	24:UU:351:GLN:OE1	2.36	0.44
25:UV:515:ILE:HG13	25:UV:522:LYS:HD2	1.98	0.44
29:CE:16:LYS:HB2	29:CE:45:ALA:HB2	1.98	0.44
29:CE:281:LYS:HG2	29:CE:288:THR:HG21	1.99	0.44
31:CH:322:HIS:HB2	31:CH:343:ASP:OD2	2.18	0.44
31:CH:498:VAL:HG12	31:CH:511:LEU:HB3	1.99	0.44
32:CI:117:ARG:HD2	32:CI:117:ARG:C	2.43	0.44
34:CK:343:GLU:CD	35:CL:1007:TYR:HE1	2.26	0.44
36:CM:338:PHE:C	36:CM:339:LEU:HD22	2.42	0.44
37:CN:20:LEU:HD11	37:CN:35:HIS:HB2	1.99	0.44
39:JF:167:ILE:HG22	39:JF:171:LEU:CD1	2.47	0.44
39:JF:219:GLU:OE1	39:JF:219:GLU:N	2.35	0.44
45:JN:149:LEU:HD12	46:JO:198:TYR:CD1	2.53	0.44
45:JN:316:ARG:HD3	66:D3:1036:A:N3	2.33	0.44
47:JP:245:VAL:HA	47:JP:256:GLN:O	2.17	0.44
49:DE:240:LYS:HE3	49:DE:241:GLY:H	1.83	0.44
51:DG:83:CYS:SG	66:D3:162:A:H5"	2.57	0.44
52:DH:5:GLN:HE22	52:DH:22:GLN:N	2.14	0.44
56:DN:54:LEU:O	56:DN:60:VAL:HB	2.18	0.44
60:DW:11:LEU:HD11	60:DW:37:PHE:CD1	2.52	0.44
60:DW:31:SER:OG	60:DW:34:ILE:N	2.34	0.44
61:DX:85:ALA:CB	61:DX:122:PHE:HB2	2.48	0.44
62:DY:37:LYS:HE3	66:D3:522:U:H5"	2.00	0.44
65:D2:10:C:H2'	65:D2:11:A:C8	2.52	0.44
66:D3:269:G:C6	66:D3:287:G:C5	3.05	0.44
66:D3:763:G:C2	66:D3:764:U:C4	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:845:G:C2	66:D3:846:G:H1'	2.52	0.44
66:D3:1202:A:H3'	66:D3:1203:A:C8	2.52	0.44
66:D3:1650:U:H2'	66:D3:1651:A:C8	2.51	0.44
66:D3:1659:A:H2'	66:D3:1660:A:C8	2.53	0.44
67:D4:81:U:H4'	67:D4:82:G:OP2	2.17	0.44
79:EN:352:ASN:O	79:EN:356:ALA:N	2.44	0.44
2:DA:9:LEU:HD21	16:UM:619:ARG:NH1	2.33	0.44
2:DA:87:ARG:HB2	2:DA:101:HIS:HD2	1.83	0.44
4:UA:852:THR:HB	24:UU:897:HIS:HE1	1.82	0.44
5:UB:546:LEU:O	5:UB:550:VAL:HG13	2.18	0.44
10:UG:87:GLN:N	10:UG:90:GLU:OE2	2.35	0.44
11:UH:666:VAL:O	11:UH:669:ALA:N	2.51	0.44
12:UI:502:ARG:CG	18:UO:510:LEU:HD21	2.40	0.44
13:UJ:166:ASN:O	13:UJ:166:ASN:ND2	2.51	0.44
13:UJ:180:ILE:HD11	20:UQ:876:PHE:CE2	2.53	0.44
13:UJ:308:GLY:H	13:UJ:311:ASN:HD21	1.63	0.44
13:UJ:539:LEU:HA	13:UJ:539:LEU:HD23	1.82	0.44
13:UJ:1672:ALA:O	13:UJ:1675:SER:OG	2.32	0.44
14:UK:40:ASP:OD1	14:UK:44:LYS:NZ	2.39	0.44
15:UL:276:ASN:O	15:UL:338:ILE:HD11	2.18	0.44
15:UL:769:TYR:CZ	15:UL:787:LYS:HG2	2.53	0.44
16:UM:173:LYS:HB3	16:UM:175:TRP:CH2	2.53	0.44
16:UM:199:ILE:O	16:UM:209:LEU:HB2	2.18	0.44
16:UM:352:LYS:HG3	16:UM:353:LEU:H	1.81	0.44
16:UM:418:ASN:ND2	16:UM:423:LYS:HE3	2.32	0.44
16:UM:755:ILE:H	16:UM:755:ILE:HD12	1.83	0.44
18:UO:54:ASP:OD1	18:UO:67:SER:HA	2.18	0.44
20:UQ:271:LEU:HB2	20:UQ:283:VAL:HG23	1.98	0.44
20:UQ:282:ILE:HB	20:UQ:291:ARG:HG3	2.00	0.44
20:UQ:704:ASN:C	20:UQ:704:ASN:HD22	2.16	0.44
21:UR:533:ALA:HB1	21:UR:565:VAL:HG21	1.99	0.44
22:US:177:ILE:O	22:US:181:THR:HG22	2.17	0.44
23:UT:211:PHE:O	23:UT:215:VAL:HG23	2.18	0.44
23:UT:333:TRP:CH2	23:UT:369:SER:HA	2.52	0.44
23:UT:943:ARG:HH12	66:D3:258:C:N4	2.15	0.44
23:UT:1857:ILE:O	47:JP:146:LYS:NZ	2.51	0.44
24:UU:78:SER:OG	24:UU:79:SER:N	2.51	0.44
24:UU:287:LEU:HD13	24:UU:322:TYR:HE2	1.83	0.44
24:UU:902:ASN:HD21	24:UU:904:ASP:HB2	1.82	0.44
25:UV:464:THR:O	25:UV:466:THR:HG23	2.17	0.44
25:UV:467:LEU:O	25:UV:476:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:592:PHE:HD2	25:UV:596:LYS:HB2	1.83	0.44
25:UV:679:SER:HA	25:UV:682:VAL:HG12	1.99	0.44
25:UV:711:PRO:HB3	25:UV:767:GLN:HB2	1.99	0.44
25:UV:960:LYS:HG2	25:UV:963:LYS:NZ	2.33	0.44
28:CD:96:ILE:HG22	28:CD:115:TYR:O	2.18	0.44
28:CD:213:ASN:O	28:CD:216:PHE:HB3	2.17	0.44
29:CE:222:ASP:OD1	29:CE:223:LEU:N	2.51	0.44
30:CG:114:ILE:HA	30:CG:117:VAL:HG12	1.99	0.44
33:CJ:92:THR:HG22	33:CJ:93:SER:H	1.82	0.44
33:CJ:227:ARG:HG3	33:CJ:227:ARG:NH1	2.33	0.44
34:CK:467:ILE:C	34:CK:468:ARG:HG3	2.43	0.44
35:CL:170:VAL:HB	35:CL:207:LEU:HD23	2.00	0.44
35:CL:830:ARG:NH1	61:DX:95:PHE:HZ	2.16	0.44
36:CM:137:LEU:HG	36:CM:296:LEU:HD22	2.00	0.44
37:CN:215:VAL:HG22	63:Db:79:PHE:HE1	1.82	0.44
38:JC:147:ASN:ND2	38:JC:150:ASN:HB2	2.33	0.44
39:JF:193:ILE:HA	39:JF:196:LEU:HD12	1.98	0.44
39:JG:144:LEU:HD13	39:JG:150:ILE:HD12	1.99	0.44
42:JJ:115:LYS:O	42:JJ:115:LYS:HD3	2.18	0.44
47:JP:245:VAL:HG12	47:JP:257:LYS:HB2	1.99	0.44
49:DE:125:LYS:HB2	49:DE:226:PHE:CD1	2.52	0.44
51:DG:31:ARG:HH22	51:DG:65:GLN:HA	1.82	0.44
51:DG:190:GLN:O	51:DG:193:LEU:HG	2.16	0.44
52:DH:58:LEU:HD23	52:DH:88:ARG:HE	1.83	0.44
53:DI:42:ARG:HA	53:DI:42:ARG:HH11	1.81	0.44
58:DQ:107:LYS:HD2	58:DQ:107:LYS:HA	1.60	0.44
61:DX:85:ALA:HB2	61:DX:122:PHE:HD2	1.83	0.44
62:DY:99:LYS:NZ	62:DY:101:GLU:HA	2.33	0.44
65:D2:3:G:H2'	65:D2:4:C:C6	2.53	0.44
65:D2:24:U:O2	65:D2:56:G:N2	2.51	0.44
66:D3:628:G:O6	66:D3:969:C:H3'	2.17	0.44
78:EK:845:PRO:HA	78:EK:851:ASP:CB	2.47	0.44
3:JA:895:ILE:HA	3:JA:898:ILE:HG12	2.00	0.44
4:UA:354:SER:HA	4:UA:395:PHE:CE1	2.53	0.44
4:UA:564:PHE:HD1	4:UA:567:ASP:OD2	2.00	0.44
1:CB:212:LYS:HD3	28:CD:259:MET:CE	2.47	0.44
5:UB:482:GLN:HB2	5:UB:486:LYS:HZ3	1.82	0.44
7:UD:155:LYS:HZ1	7:UD:217:LYS:HE3	1.82	0.44
7:UD:309:GLN:HE21	7:UD:318:ASN:HA	1.82	0.44
7:UD:565:ARG:HH11	7:UD:567:ASN:N	2.16	0.44
8:UE:280:GLN:NE2	8:UE:325:GLU:OE2	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:527:HIS:HB3	8:UE:531:LYS:HE2	1.99	0.44
9:UF:116:TYR:CD2	9:UF:116:TYR:C	2.96	0.44
9:UF:162:LYS:O	9:UF:165:ARG:HG2	2.18	0.44
9:UF:183:TYR:CE2	9:UF:318:ARG:HG2	2.52	0.44
10:UG:213:TRP:CH2	65:D2:329:A:N7	2.85	0.44
10:UG:252:SER:HA	10:UG:276:PRO:HB3	1.99	0.44
11:UH:599:MET:HE1	11:UH:640:LEU:C	2.43	0.44
13:UJ:1524:ILE:O	13:UJ:1528:VAL:HG13	2.17	0.44
13:UJ:1533:ASN:HA	13:UJ:1536:VAL:HG22	1.99	0.44
13:UJ:1548:PHE:O	13:UJ:1552:VAL:HG23	2.18	0.44
14:UK:213:GLN:HE22	14:UK:217:ARG:NH1	2.14	0.44
15:UL:10:GLN:NE2	15:UL:69:PRO:HG2	2.32	0.44
15:UL:88:HIS:HD2	15:UL:91:THR:H	1.63	0.44
15:UL:303:LEU:HD23	15:UL:313:ILE:HB	2.00	0.44
15:UL:589:ILE:HG22	15:UL:599:ILE:HD13	1.99	0.44
16:UM:36:VAL:HG12	16:UM:37:LEU:H	1.83	0.44
16:UM:93:GLY:C	16:UM:94:LYS:HD2	2.42	0.44
16:UM:416:ARG:HB2	16:UM:427:TYR:CE1	2.52	0.44
16:UM:584:ILE:HG21	16:UM:589:GLN:HG3	1.99	0.44
18:UO:57:VAL:HG21	18:UO:327:LEU:HD12	2.00	0.44
20:UQ:406:MET:HE1	20:UQ:486:PHE:CZ	2.53	0.44
21:UR:257:HIS:HE1	21:UR:259:SER:HB3	1.83	0.44
22:US:219:TRP:CE2	22:US:223:VAL:HG11	2.53	0.44
22:US:412:CYS:O	22:US:415:MET:HG3	2.18	0.44
23:UT:62:LYS:NZ	23:UT:97:PHE:HB3	2.33	0.44
23:UT:81:LEU:HD23	31:CH:68:LYS:NZ	2.33	0.44
23:UT:887:ASN:HB2	23:UT:904:PHE:CE1	2.53	0.44
23:UT:1705:LEU:HB3	23:UT:1760:ASN:OD1	2.18	0.44
24:UU:545:PRO:HD2	24:UU:563:ASP:HB3	2.00	0.44
24:UU:622:GLY:HA3	24:UU:673:PHE:HZ	1.82	0.44
25:UV:349:LEU:HD21	25:UV:395:ILE:HD13	2.00	0.44
25:UV:371:GLN:NE2	25:UV:372:GLN:HG2	2.33	0.44
25:UV:475:ASN:OD1	25:UV:476:ILE:N	2.51	0.44
25:UV:1157:TYR:OH	25:UV:1203:ASN:N	2.51	0.44
26:UX:20:LYS:NZ	32:CI:31:GLN:HG3	2.33	0.44
27:UZ:142:ARG:NE	66:D3:1515:A:N6	2.66	0.44
28:CD:21:LYS:C	28:CD:22:LEU:HD12	2.43	0.44
28:CD:25:ASP:OD2	47:JP:383:SER:HB2	2.18	0.44
31:CH:129:GLN:N	31:CH:129:GLN:OE1	2.51	0.44
32:CI:70:PHE:CD1	34:CK:434:HIS:CD2	3.06	0.44
33:CJ:116:ARG:C	33:CJ:117:LEU:HD12	2.41	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:CK:470:GLU:O	34:CK:470:GLU:HG2	2.17	0.44
35:CL:256:GLU:HA	35:CL:259:GLU:OE2	2.18	0.44
35:CL:1114:GLN:HE22	65:D2:412:A:H1'	1.81	0.44
36:CM:55:LEU:HD12	36:CM:88:HIS:ND1	2.32	0.44
39:JF:150:ILE:HG13	39:JF:160:LEU:HD12	1.99	0.44
39:JG:96:LEU:HG	39:JG:130:ILE:CD1	2.48	0.44
45:JN:316:ARG:NH1	66:D3:1036:A:C4	2.86	0.44
47:JP:247:TYR:CE1	47:JP:254:PRO:HB3	2.52	0.44
47:JP:306:SER:HB3	47:JP:326:ASP:HB2	1.99	0.44
47:JP:320:ILE:O	47:JP:331:ILE:HA	2.18	0.44
49:DE:22:LYS:N	49:DE:22:LYS:HD3	2.33	0.44
49:DE:162:ILE:HG13	49:DE:163:ASP:O	2.17	0.44
50:DF:43:PHE:CE1	50:DF:115:LYS:HD3	2.53	0.44
50:DF:111:VAL:HA	50:DF:114:ILE:HG22	2.00	0.44
52:DH:51:VAL:HG23	52:DH:171:ALA:CB	2.48	0.44
53:DI:26:LYS:HD2	53:DI:26:LYS:HA	1.80	0.44
55:DL:45:PRO:HB2	55:DL:47:THR:HG22	2.00	0.44
63:Db:19:HIS:CD2	63:Db:21:LEU:H	2.36	0.44
65:D2:112:U:H2'	65:D2:113:A:C8	2.53	0.44
65:D2:194:G:N1	65:D2:203:C:N3	2.49	0.44
65:D2:248:G:N1	65:D2:249:G:C5	2.86	0.44
65:D2:412:A:H2'	65:D2:413:C:C6	2.53	0.44
66:D3:753:A:C6	66:D3:754:A:H1'	2.52	0.44
66:D3:1272:U:O3'	66:D3:1273:G:H8	2.01	0.44
66:D3:1480:G:H1	66:D3:1527:C:H42	1.66	0.44
66:D3:1638:G:H4'	66:D3:1639:C:OP1	2.18	0.44
66:D3:1752:U:H2'	66:D3:1753:A:C8	2.53	0.44
67:D4:78:G:O6	67:D4:330:A:N6	2.49	0.44
67:D4:159:C:H2'	67:D4:160:G:H8	1.82	0.44
78:EK:634:ALA:HB2	78:EK:680:LEU:HA	1.99	0.44
79:EN:660:VAL:O	79:EN:664:VAL:N	2.43	0.44
1:CA:212:LYS:HG2	29:CE:190:TRP:CZ3	2.53	0.44
2:DA:153:HIS:HB2	2:DA:155:TYR:CE1	2.52	0.44
3:JA:86:ARG:HH22	3:JA:91:MET:HA	1.83	0.44
5:UB:604:VAL:HG11	5:UB:678:PHE:HE1	1.83	0.44
5:UB:614:ILE:HG12	5:UB:616:LEU:HD13	2.00	0.44
6:UC:528:LEU:HD11	66:D3:579:A:N7	2.32	0.44
7:UD:66:ARG:NH2	7:UD:88:GLU:OE2	2.45	0.44
7:UD:487:VAL:HG12	7:UD:497:ILE:HG13	2.00	0.44
8:UE:262:SER:O	8:UE:270:ASN:ND2	2.51	0.44
9:UF:152:LYS:HA	9:UF:152:LYS:HD2	1.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UF:180:LYS:O	9:UF:184:GLU:OE1	2.35	0.44
10:UG:211:THR:HB	65:D2:329:A:N3	2.32	0.44
10:UG:265:GLU:HB3	10:UG:266:PRO:HD2	1.98	0.44
10:UG:325:SER:HB2	10:UG:383:PHE:CE1	2.52	0.44
13:UJ:1738:GLU:CD	23:UT:201:ARG:HH12	2.25	0.44
14:UK:65:HIS:CG	67:D4:55:A:H2	2.36	0.44
15:UL:424:CYS:SG	15:UL:425:ILE:N	2.91	0.44
16:UM:15:ILE:HG13	16:UM:34:THR:OG1	2.18	0.44
16:UM:486:THR:C	16:UM:487:ARG:HD2	2.43	0.44
16:UM:732:ASN:O	16:UM:736:LEU:HG	2.18	0.44
17:UN:324:ALA:CB	28:CD:87:PRO:HA	2.48	0.44
18:UO:229:CYS:SG	18:UO:255:VAL:HG23	2.57	0.44
18:UO:316:ARG:C	18:UO:317:HIS:HD1	2.25	0.44
18:UO:319:VAL:HG22	18:UO:329:ILE:HG22	1.98	0.44
18:UO:500:GLU:HA	18:UO:503:ARG:HG3	1.98	0.44
18:UO:506:GLY:O	18:UO:510:LEU:HD23	2.18	0.44
20:UQ:168:LEU:HD23	20:UQ:168:LEU:HA	1.83	0.44
20:UQ:270:GLN:O	20:UQ:271:LEU:HD22	2.18	0.44
20:UQ:726:GLN:HA	20:UQ:739:TYR:HA	2.00	0.44
21:UR:318:ARG:O	21:UR:354:SER:HA	2.16	0.44
22:US:339:MET:HE1	22:US:451:SER:C	2.43	0.44
23:UT:122:LEU:HA	23:UT:125:TYR:CB	2.46	0.44
23:UT:193:ALA:HB1	23:UT:235:LEU:CA	2.48	0.44
23:UT:279:TRP:CE3	23:UT:282:ILE:HD11	2.53	0.44
23:UT:344:MET:HE2	23:UT:384:TYR:CZ	2.52	0.44
23:UT:673:ARG:CZ	23:UT:771:PRO:HG2	2.48	0.44
23:UT:715:TYR:CD2	23:UT:762:ILE:HD11	2.53	0.44
23:UT:939:SER:OG	23:UT:942:LYS:HG3	2.18	0.44
23:UT:1083:TYR:HD2	23:UT:1124:TYR:HD2	1.65	0.44
23:UT:1206:THR:HB	23:UT:1249:LEU:HD13	1.99	0.44
23:UT:1341:GLU:CD	23:UT:1389:LYS:HZ3	2.26	0.44
25:UV:369:TRP:CZ3	25:UV:373:ARG:HG3	2.52	0.44
25:UV:627:LEU:HD13	25:UV:671:THR:HG23	1.99	0.44
25:UV:844:THR:O	25:UV:847:GLY:N	2.51	0.44
27:UZ:13:ALA:O	27:UZ:17:LEU:HG	2.18	0.44
27:UZ:77:LYS:HE3	27:UZ:77:LYS:HB3	1.86	0.44
27:UZ:86:THR:HG22	27:UZ:90:ASP:OD2	2.18	0.44
30:CF:16:LEU:O	30:CF:20:ILE:HG12	2.18	0.44
30:CG:50:GLU:HB2	30:CG:102:ILE:O	2.17	0.44
31:CH:155:ASN:O	31:CH:191:SER:OG	2.36	0.44
31:CH:194:LEU:HD22	31:CH:235:HIS:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CJ:133:LYS:HE2	33:CJ:133:LYS:HB3	1.60	0.44
35:CL:1049:ASN:HB3	35:CL:1052:SER:HB2	2.00	0.44
45:JN:303:GLU:O	45:JN:303:GLU:HG2	2.18	0.44
47:JP:61:GLN:NE2	67:D4:31:G:H22	2.16	0.44
47:JP:139:CYS:HB3	47:JP:185:ILE:HD12	2.00	0.44
49:DE:181:VAL:HG12	49:DE:227:VAL:HA	2.00	0.44
50:DF:24:VAL:O	50:DF:24:VAL:HG23	2.18	0.44
53:DI:98:LYS:HZ3	53:DI:99:ALA:HB2	1.82	0.44
56:DN:119:GLU:HA	56:DN:122:ILE:HG22	1.99	0.44
56:DN:121:ARG:HH22	66:D3:868:G:C5'	2.29	0.44
62:DY:34:ASN:ND2	62:DY:34:ASN:C	2.74	0.44
65:D2:64:U:H2'	65:D2:65:U:C6	2.53	0.44
65:D2:426:G:C4	65:D2:428:A:H5"	2.53	0.44
65:D2:445:U:H2'	65:D2:446:U:O4'	2.18	0.44
65:D2:467:A:O2'	65:D2:468:A:H5'	2.18	0.44
66:D3:109:G:C6	66:D3:110:U:C4	3.05	0.44
66:D3:319:U:H4'	66:D3:323:A:N9	2.32	0.44
66:D3:762:A:H8	66:D3:763:G:C8	2.36	0.44
66:D3:874:C:H2'	66:D3:875:G:C8	2.53	0.44
66:D3:1057:U:HO2'	66:D3:1058:U:P	2.40	0.44
66:D3:1064:G:C6	66:D3:1065:A:N7	2.86	0.44
66:D3:1594:G:H1	66:D3:1602:C:H42	1.64	0.44
66:D3:1676:U:H2'	66:D3:1677:C:C6	2.53	0.44
67:D4:54:C:C5	67:D4:55:A:C8	3.06	0.44
75:EH:76:ILE:O	75:EH:116:GLY:N	2.50	0.44
79:EN:683:SER:HA	79:EN:689:ASN:HA	2.00	0.44
1:CA:98:ILE:HG22	1:CA:100:ARG:HG2	2.00	0.44
3:JA:34:ARG:O	3:JA:94:PHE:HB2	2.17	0.44
3:JA:258:ASN:H	3:JA:472:GLU:CD	2.26	0.44
3:JA:867:PHE:HZ	3:JA:886:LEU:HB2	1.83	0.44
4:UA:324:LEU:HD12	4:UA:342:GLN:NE2	2.26	0.44
6:UC:544:ILE:HD13	35:CL:834:TRP:CD2	2.53	0.44
7:UD:48:SER:O	7:UD:49:LEU:HD23	2.17	0.44
7:UD:389:ARG:CZ	7:UD:747:ILE:HD13	2.48	0.44
7:UD:647:TRP:CE3	7:UD:656:ARG:HB2	2.53	0.44
8:UE:86:TRP:CD1	8:UE:98:LYS:HG2	2.53	0.44
9:UF:336:ASN:O	9:UF:340:GLN:HG3	2.16	0.44
10:UG:202:HIS:NE2	10:UG:437:LEU:HD12	2.33	0.44
11:UH:596:LYS:HD3	11:UH:600:LYS:NZ	2.32	0.44
13:UJ:25:ARG:NH1	47:JP:16:VAL:HG12	2.31	0.44
13:UJ:717:GLU:HB3	13:UJ:751:ILE:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:740:ALA:O	13:UJ:743:SER:OG	2.20	0.44
13:UJ:800:ASP:OD1	13:UJ:800:ASP:N	2.49	0.44
13:UJ:1501:PHE:O	13:UJ:1504:LEU:HG	2.17	0.44
13:UJ:1762:GLU:OE1	13:UJ:1766:ARG:HD3	2.17	0.44
15:UL:457:PHE:CE1	15:UL:464:LEU:HD13	2.53	0.44
15:UL:756:LEU:O	15:UL:760:ILE:HG12	2.17	0.44
16:UM:13:ASN:HA	16:UM:640:VAL:HG12	2.00	0.44
16:UM:148:SER:OG	16:UM:166:GLY:O	2.36	0.44
16:UM:303:PHE:CE1	16:UM:313:LEU:HD21	2.52	0.44
16:UM:392:ASN:ND2	16:UM:438:THR:HA	2.32	0.44
16:UM:655:GLU:OE2	16:UM:656:GLN:HG3	2.17	0.44
17:UN:837:LYS:O	17:UN:840:LEU:HB3	2.17	0.44
20:UQ:38:SER:N	20:UQ:43:ASN:O	2.49	0.44
22:US:357:ARG:N	22:US:357:ARG:HE	2.16	0.44
23:UT:140:ILE:CD1	23:UT:188:LEU:HD21	2.48	0.44
23:UT:323:PHE:HB2	23:UT:364:LEU:HD23	1.99	0.44
23:UT:480:TYR:CE1	23:UT:518:MET:HA	2.52	0.44
23:UT:1000:PHE:O	23:UT:1003:ILE:HG13	2.18	0.44
23:UT:1090:ARG:O	23:UT:1094:PHE:HB2	2.17	0.44
23:UT:1127:PHE:CZ	23:UT:1166:HIS:HB3	2.52	0.44
23:UT:1237:GLU:HG2	23:UT:1280:LEU:HD21	1.99	0.44
23:UT:1282:VAL:O	23:UT:1285:THR:OG1	2.28	0.44
23:UT:1374:PHE:CE2	23:UT:1378:ILE:HD11	2.53	0.44
23:UT:1554:PRO:HA	23:UT:1557:GLU:HG2	1.99	0.44
24:UU:337:VAL:HG12	24:UU:338:GLN:O	2.17	0.44
25:UV:300:TYR:CD1	25:UV:341:THR:HG23	2.53	0.44
25:UV:468:PHE:HA	25:UV:474:VAL:O	2.18	0.44
26:UX:48:SER:OG	26:UX:149:LYS:HE2	2.17	0.44
27:UZ:97:PHE:CE2	27:UZ:180:LEU:HD11	2.52	0.44
28:CD:253:ASP:O	28:CD:257:ILE:HG12	2.18	0.44
30:CG:66:HIS:CE1	30:CG:67:LEU:HB2	2.53	0.44
31:CH:489:SER:OG	31:CH:497:LYS:HB2	2.18	0.44
33:CJ:92:THR:HG22	33:CJ:93:SER:N	2.33	0.44
35:CL:82:LYS:HG2	82:CL:2001:GTP:PB	2.58	0.44
35:CL:613:PRO:HB3	36:CM:321:ARG:NH2	2.33	0.44
37:CN:121:ARG:HA	37:CN:121:ARG:HD2	1.84	0.44
38:JC:146:TYR:HD1	38:JC:153:LEU:HD22	1.83	0.44
39:JG:42:ILE:HB	39:JG:203:CYS:HA	1.99	0.44
39:JG:188:ARG:CZ	39:JG:191:ASP:HB2	2.48	0.44
44:JM:173:ILE:HA	44:JM:176:THR:HG22	2.00	0.44
47:JP:17:LYS:HZ2	47:JP:20:GLN:HB2	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:JP:84:ALA:CB	47:JP:136:MET:HE3	2.47	0.44
49:DE:137:PRO:HG2	49:DE:149:TYR:HA	2.00	0.44
54:DJ:127:VAL:HA	54:DJ:130:THR:HG22	2.00	0.44
57:DO:52:ARG:CZ	66:D3:903:U:H3	2.31	0.44
65:D2:171:G:C6	65:D2:172:C:C4	3.05	0.44
65:D2:411:A:H2'	65:D2:412:A:H8	1.83	0.44
66:D3:61:A:C6	66:D3:62:A:C6	3.06	0.44
66:D3:643:G:C6	66:D3:644:C:C4	3.06	0.44
66:D3:1040:G:C2	66:D3:1079:U:N3	2.85	0.44
66:D3:1060:U:OP1	66:D3:1060:U:H4'	2.17	0.44
3:JA:191:SER:HB2	3:JA:485:TRP:NE1	2.33	0.43
3:JA:818:GLU:HB2	3:JA:819:LYS:HZ2	1.83	0.43
4:UA:31:SER:OG	4:UA:40:PHE:HE2	2.01	0.43
4:UA:560:ILE:O	4:UA:599:ASN:HB3	2.18	0.43
5:UB:646:THR:HB	5:UB:651:TRP:HZ3	1.83	0.43
7:UD:87:GLN:OE1	7:UD:378:TYR:HD2	2.00	0.43
7:UD:105:SER:HA	7:UD:153:GLN:CD	2.43	0.43
7:UD:144:ILE:HG23	7:UD:158:VAL:HB	1.99	0.43
8:UE:118:TRP:CH2	8:UE:128:GLN:HB2	2.53	0.43
8:UE:541:LEU:HD23	18:UO:495:ILE:HD12	2.00	0.43
9:UF:361:LYS:O	9:UF:365:ILE:HG12	2.18	0.43
10:UG:37:THR:HG22	10:UG:39:ASP:H	1.82	0.43
11:UH:549:ARG:HH22	11:UH:552:LYS:CD	2.31	0.43
11:UH:562:PRO:HB2	11:UH:565:GLU:OE1	2.17	0.43
12:UI:473:LYS:HD2	12:UI:474:HIS:CE1	2.53	0.43
13:UJ:196:LEU:HD23	13:UJ:196:LEU:HA	1.73	0.43
13:UJ:1724:VAL:HG23	13:UJ:1725:LEU:HG	2.00	0.43
14:UK:161:ARG:O	14:UK:165:ARG:NE	2.51	0.43
15:UL:905:LEU:HG	16:UM:782:VAL:CG2	2.47	0.43
16:UM:30:LYS:HG3	16:UM:30:LYS:O	2.17	0.43
16:UM:235:LYS:HD2	16:UM:237:LEU:HD21	2.00	0.43
16:UM:532:HIS:CD2	16:UM:533:LYS:HE2	2.52	0.43
16:UM:532:HIS:NE2	16:UM:554:ASP:OD1	2.51	0.43
16:UM:663:VAL:HA	16:UM:666:GLU:CD	2.43	0.43
17:UN:321:HIS:HB3	28:CD:89:ALA:HA	2.00	0.43
18:UO:28:ARG:NH2	65:D2:142:U:H3	2.16	0.43
18:UO:280:HIS:HB3	18:UO:282:LYS:HZ3	1.83	0.43
22:US:215:ASN:O	22:US:218:LYS:HB2	2.17	0.43
22:US:403:TYR:CG	22:US:493:TYR:HE2	2.36	0.43
23:UT:431:LYS:HZ1	23:UT:750:TYR:HB3	1.83	0.43
23:UT:1478:ASP:OD1	23:UT:1519:SER:N	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:1682:LYS:N	23:UT:1686:GLN:OE1	2.36	0.43
23:UT:1727:GLY:O	23:UT:1731:GLU:HG2	2.18	0.43
24:UU:188:VAL:C	24:UU:189:LEU:HD22	2.43	0.43
24:UU:252:SER:OG	24:UU:268:THR:O	2.24	0.43
24:UU:669:ASP:O	24:UU:673:PHE:HB2	2.18	0.43
25:UV:177:ASN:HB3	25:UV:213:LEU:HD13	2.00	0.43
25:UV:800:GLU:CD	25:UV:836:GLU:HB2	2.43	0.43
28:CD:148:GLU:OE1	28:CD:148:GLU:N	2.34	0.43
28:CD:246:GLY:HA2	28:CD:249:GLN:NE2	2.33	0.43
29:CE:155:SER:HB3	29:CE:158:LYS:HD2	2.00	0.43
31:CH:266:GLU:HG2	31:CH:267:SER:N	2.33	0.43
31:CH:300:ALA:C	31:CH:302:PHE:H	2.26	0.43
34:CK:454:VAL:O	34:CK:456:PHE:CD1	2.71	0.43
35:CL:198:VAL:HG12	35:CL:199:TYR:H	1.82	0.43
35:CL:280:LEU:HD12	35:CL:281:PRO:HD2	2.00	0.43
35:CL:769:TYR:HB3	35:CL:777:ARG:NH1	2.33	0.43
38:JC:138:PRO:C	38:JC:139:LYS:HD2	2.43	0.43
38:JC:164:ARG:NH2	38:JC:174:ASN:O	2.51	0.43
38:JC:237:ARG:NH2	38:JC:288:LYS:HG3	2.32	0.43
39:JG:37:ILE:HG13	39:JG:38:THR:HG23	2.00	0.43
39:JG:175:CYS:SG	39:JG:203:CYS:N	2.91	0.43
42:JJ:97:ARG:C	42:JJ:98:LYS:HD3	2.43	0.43
44:JM:54:GLU:O	44:JM:57:THR:HG22	2.17	0.43
49:DE:11:ARG:HA	49:DE:28:ALA:HB2	2.00	0.43
53:DI:36:THR:HG23	53:DI:58:LEU:C	2.43	0.43
54:DJ:134:ILE:HG23	54:DJ:157:ASP:O	2.17	0.43
58:DQ:48:VAL:HG23	58:DQ:78:VAL:HG13	2.00	0.43
65:D2:335:G:C2	65:D2:390:C:O2	2.71	0.43
66:D3:143:G:H2'	66:D3:144:U:C6	2.53	0.43
66:D3:1470:C:H2'	66:D3:1573:A:N6	2.33	0.43
66:D3:1667:A:H2'	66:D3:1668:G:C8	2.52	0.43
1:CA:107:VAL:HG13	1:CA:142:ARG:C	2.43	0.43
3:JA:91:MET:CE	35:CL:95:LYS:HD3	2.48	0.43
3:JA:617:LEU:O	3:JA:620:GLN:HG2	2.18	0.43
7:UD:57:ILE:O	7:UD:342:LYS:HG2	2.17	0.43
8:UE:200:GLU:O	8:UE:217:ILE:HG22	2.19	0.43
8:UE:513:LEU:HD11	18:UO:511:LEU:CG	2.39	0.43
9:UF:173:ARG:NH1	28:CD:80:ALA:HA	2.33	0.43
11:UH:310:MET:HA	11:UH:326:VAL:HA	1.99	0.43
11:UH:541:LEU:HD11	11:UH:551:PHE:HE1	1.82	0.43
13:UJ:270:LEU:HD23	13:UJ:270:LEU:HA	1.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:1601:VAL:HA	13:UJ:1604:LEU:HD12	2.00	0.43
13:UJ:1651:LEU:O	13:UJ:1654:GLN:HB2	2.19	0.43
14:UK:70:ARG:NH1	35:CL:1079:PHE:CZ	2.87	0.43
14:UK:171:LEU:CD2	48:JQ:119:ILE:HA	2.48	0.43
15:UL:14:PHE:HB3	15:UL:417:TRP:CZ3	2.53	0.43
15:UL:48:ASP:OD1	15:UL:49:VAL:N	2.51	0.43
15:UL:406:LEU:HD13	15:UL:416:ILE:HG13	2.00	0.43
16:UM:734:GLU:CD	16:UM:734:GLU:H	2.25	0.43
18:UO:281:VAL:HG13	18:UO:296:TRP:HE3	1.82	0.43
18:UO:413:LEU:O	18:UO:417:VAL:HG23	2.19	0.43
20:UQ:498:LEU:HD11	20:UQ:507:MET:HB2	2.00	0.43
20:UQ:499:LYS:HD3	20:UQ:499:LYS:HA	1.81	0.43
20:UQ:660:GLN:HE22	20:UQ:674:THR:C	2.26	0.43
21:UR:411:TYR:CE1	21:UR:421:THR:HG22	2.54	0.43
22:US:148:PHE:O	22:US:152:ILE:HG12	2.18	0.43
22:US:250:GLU:O	22:US:253:PHE:HB3	2.18	0.43
23:UT:177:LEU:HD23	23:UT:177:LEU:HA	1.83	0.43
23:UT:391:ASP:OD1	23:UT:391:ASP:N	2.43	0.43
23:UT:608:MET:HE2	23:UT:615:VAL:HA	1.99	0.43
23:UT:851:HIS:CD2	23:UT:924:TYR:HH	2.36	0.43
23:UT:971:ARG:NH1	23:UT:972:LEU:HD21	2.33	0.43
23:UT:1240:THR:O	23:UT:1244:LEU:HG	2.19	0.43
23:UT:1351:PHE:CD2	23:UT:1367:ALA:HA	2.53	0.43
23:UT:1716:MET:HG2	23:UT:1717:ILE:HD12	1.99	0.43
23:UT:1773:VAL:O	23:UT:1777:LEU:HD23	2.18	0.43
23:UT:1776:LEU:HD11	23:UT:1781:ILE:HD11	2.01	0.43
23:UT:1923:ARG:HH21	23:UT:1969:HIS:CD2	2.36	0.43
24:UU:218:LEU:N	24:UU:218:LEU:HD12	2.33	0.43
24:UU:375:LEU:HD12	24:UU:414:ILE:HD13	2.00	0.43
25:UV:640:THR:O	25:UV:644:VAL:HG23	2.18	0.43
25:UV:898:THR:O	25:UV:902:ILE:HG12	2.18	0.43
25:UV:956:ASN:HD21	25:UV:960:LYS:HE3	1.83	0.43
25:UV:1102:LEU:C	25:UV:1103:ARG:HE	2.26	0.43
27:UZ:17:LEU:O	27:UZ:20:LEU:HG	2.17	0.43
29:CE:205:TYR:CE2	29:CE:209:ILE:HD11	2.53	0.43
29:CE:229:GLU:HA	29:CE:232:GLU:HG3	2.00	0.43
29:CE:316:THR:HG22	67:D4:324:U:O2'	2.18	0.43
34:CK:297:LEU:HD12	34:CK:301:GLU:HG3	1.99	0.43
35:CL:880:TYR:HB2	61:DX:94:ASN:ND2	2.33	0.43
36:CM:207:ARG:HE	36:CM:268:PRO:HG2	1.83	0.43
37:CN:41:ARG:HH21	37:CN:138:TRP:HB3	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:JC:363:LEU:O	38:JC:366:LYS:HB3	2.18	0.43
42:JJ:221:ARG:HB2	42:JJ:239:HIS:ND1	2.33	0.43
45:JN:236:MET:SD	66:D3:8:U:N3	2.91	0.43
45:JN:320:ILE:HG13	60:DW:76:SER:CB	2.48	0.43
46:JO:178:LYS:O	46:JO:181:LYS:N	2.51	0.43
50:DF:223:SER:OG	50:DF:224:ASN:N	2.52	0.43
51:DG:28:PHE:HE1	51:DG:102:VAL:HG22	1.84	0.43
51:DG:33:GLY:HA2	51:DG:51:LYS:NZ	2.33	0.43
53:DI:48:THR:OG1	53:DI:52:ASN:HB3	2.17	0.43
60:DW:6:VAL:HG23	60:DW:29:PRO:HG2	2.00	0.43
63:Db:20:LYS:HG3	63:Db:21:LEU:HD12	1.99	0.43
66:D3:494:U:H3'	66:D3:494:U:H6	1.83	0.43
66:D3:520:A:C6	66:D3:521:A:C6	3.06	0.43
66:D3:647:G:H1	66:D3:687:G:H1	1.67	0.43
66:D3:887:A:H61	66:D3:925:G:H1	1.65	0.43
66:D3:1489:U:H4'	66:D3:1490:C:C6	2.52	0.43
66:D3:1672:G:N2	66:D3:1730:A:H1'	2.33	0.43
67:D4:55:A:O2'	67:D4:56:A:OP2	2.34	0.43
67:D4:250:C:N4	67:D4:251:G:O6	2.51	0.43
2:DA:187:LYS:HG2	2:DA:192:VAL:HG21	2.00	0.43
3:JA:19:GLN:NE2	3:JA:219:LEU:HD22	2.34	0.43
3:JA:34:ARG:HB3	3:JA:94:PHE:CD2	2.52	0.43
3:JA:209:PRO:O	3:JA:214:LYS:NZ	2.36	0.43
3:JA:510:PRO:HD3	3:JA:647:MET:HE2	2.00	0.43
4:UA:165:SER:C	4:UA:167:ASP:N	2.75	0.43
1:CB:172:TYR:CE1	1:CB:241:PHE:CD2	3.06	0.43
5:UB:552:GLN:NE2	5:UB:555:ARG:HE	2.17	0.43
6:UC:595:LYS:HD2	6:UC:595:LYS:H	1.84	0.43
7:UD:106:ASN:O	7:UD:106:ASN:ND2	2.52	0.43
7:UD:115:PHE:CD1	7:UD:125:GLU:HB3	2.54	0.43
7:UD:210:ILE:HD12	7:UD:265:TRP:HZ3	1.83	0.43
7:UD:282:ASP:OD1	7:UD:282:ASP:N	2.51	0.43
7:UD:443:GLY:HA2	7:UD:448:THR:HG22	2.00	0.43
7:UD:588:ASP:HB3	7:UD:590:LYS:HB2	2.01	0.43
8:UE:74:VAL:HG23	8:UE:90:VAL:HG21	2.00	0.43
9:UF:119:ALA:C	9:UF:121:GLY:H	2.26	0.43
10:UG:475:ASN:OD1	10:UG:478:LYS:HB2	2.19	0.43
11:UH:551:PHE:HE2	11:UH:578:LEU:HD21	1.83	0.43
13:UJ:200:ILE:HD13	13:UJ:205:THR:HG21	2.00	0.43
13:UJ:538:ALA:O	13:UJ:541:LEU:HG	2.19	0.43
13:UJ:1573:LEU:HD22	13:UJ:1618:LEU:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UK:169:ASP:OD2	14:UK:169:ASP:N	2.50	0.43
15:UL:640:LYS:HD3	15:UL:652:LYS:NZ	2.33	0.43
16:UM:12:LEU:O	16:UM:640:VAL:HA	2.19	0.43
16:UM:140:PHE:HZ	16:UM:180:ARG:HA	1.83	0.43
16:UM:230:LYS:HD2	16:UM:230:LYS:O	2.18	0.43
18:UO:86:SER:O	18:UO:98:ALA:HA	2.18	0.43
18:UO:209:LEU:HD13	18:UO:237:TRP:CD2	2.53	0.43
20:UQ:90:LYS:HG2	20:UQ:144:VAL:O	2.18	0.43
20:UQ:509:THR:CG2	20:UQ:530:LYS:HB2	2.48	0.43
21:UR:164:LEU:HD23	24:UU:175:THR:HG22	2.00	0.43
21:UR:165:ARG:HE	24:UU:218:LEU:CD2	2.24	0.43
21:UR:405:THR:OG1	21:UR:428:ALA:HB2	2.18	0.43
22:US:197:SER:HA	22:US:256:ASN:ND2	2.33	0.43
22:US:360:ARG:O	22:US:363:ASP:HB2	2.18	0.43
23:UT:395:GLU:HA	23:UT:398:GLN:HG3	2.00	0.43
23:UT:844:VAL:HG22	23:UT:845:TYR:H	1.83	0.43
23:UT:969:SER:HA	23:UT:972:LEU:HB2	1.99	0.43
23:UT:1281:ARG:O	23:UT:1285:THR:HG23	2.18	0.43
23:UT:1958:MET:O	23:UT:1958:MET:HG2	2.17	0.43
24:UU:605:LEU:HD13	24:UU:628:VAL:HG11	2.00	0.43
25:UV:255:GLU:OE1	25:UV:269:ARG:NH2	2.51	0.43
25:UV:754:LEU:HD23	25:UV:785:GLU:OE2	2.18	0.43
28:CD:201:TRP:CZ2	29:CE:161:VAL:HG21	2.53	0.43
28:CD:411:ARG:O	28:CD:414:PHE:HB3	2.17	0.43
29:CE:144:ALA:O	29:CE:147:ILE:HG22	2.18	0.43
30:CG:93:VAL:O	31:CH:552:TRP:NE1	2.40	0.43
31:CH:198:LYS:HE3	31:CH:211:LEU:HB2	2.00	0.43
31:CH:337:VAL:HG12	31:CH:407:MET:HE2	1.99	0.43
31:CH:437:ARG:HD3	31:CH:437:ARG:HA	1.67	0.43
35:CL:254:HIS:O	35:CL:258:ILE:HG12	2.18	0.43
35:CL:808:PHE:CD2	35:CL:1026:LYS:HD2	2.53	0.43
35:CL:835:HIS:CD2	35:CL:836:LYS:N	2.86	0.43
36:CM:90:CYS:SG	36:CM:120:GLY:HA3	2.58	0.43
38:JC:85:ASP:HB3	38:JC:88:ASN:OD1	2.18	0.43
38:JC:343:ILE:HD11	38:JC:345:SER:HB2	2.01	0.43
45:JN:274:LYS:HB3	45:JN:274:LYS:HE3	1.70	0.43
47:JP:345:THR:HG23	47:JP:347:ARG:H	1.83	0.43
49:DE:130:GLN:HE21	49:DE:131:LEU:H	1.65	0.43
60:DW:93:LEU:HA	60:DW:93:LEU:HD23	1.79	0.43
66:D3:542:A:HO2'	66:D3:543:C:P	2.34	0.43
66:D3:837:G:H2'	66:D3:838:G:C8	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:1149:G:H2'	66:D3:1150:G:H8	1.82	0.43
66:D3:1155:G:C6	66:D3:1156:C:C4	3.07	0.43
67:D4:64:A:H2'	67:D4:65:C:H6	1.83	0.43
3:JA:884:ILE:HB	3:JA:912:MET:HE1	2.00	0.43
4:UA:493:TRP:C	4:UA:495:LYS:H	2.26	0.43
4:UA:564:PHE:CE2	4:UA:678:GLU:HG2	2.54	0.43
8:UE:498:LEU:O	8:UE:502:VAL:HG12	2.18	0.43
10:UG:90:GLU:O	10:UG:93:SER:OG	2.31	0.43
10:UG:139:TRP:O	10:UG:139:TRP:CG	2.71	0.43
10:UG:482:ASP:OD1	10:UG:483:ILE:N	2.52	0.43
10:UG:529:ARG:NH1	10:UG:542:HIS:O	2.21	0.43
12:UI:415:GLU:N	12:UI:415:GLU:OE1	2.51	0.43
13:UJ:119:GLU:O	13:UJ:122:VAL:HG12	2.18	0.43
13:UJ:1583:GLN:HE22	13:UJ:1629:SER:HB3	1.83	0.43
14:UK:185:MET:O	14:UK:189:SER:OG	2.35	0.43
15:UL:226:VAL:CG2	15:UL:248:PHE:HB3	2.48	0.43
15:UL:472:HIS:HB3	15:UL:494:ASP:OD2	2.17	0.43
16:UM:19:SER:OG	16:UM:20:SER:N	2.51	0.43
16:UM:279:LYS:HB3	16:UM:327:ILE:HD11	2.01	0.43
16:UM:339:ILE:HB	16:UM:358:ASN:CG	2.43	0.43
19:UP:171:VAL:O	19:UP:177:ARG:NH1	2.51	0.43
20:UQ:409:LYS:H	20:UQ:409:LYS:HG2	1.58	0.43
21:UR:141:ASN:ND2	65:D2:307:C:H5'	2.33	0.43
23:UT:546:GLU:O	23:UT:549:LYS:HE3	2.19	0.43
23:UT:917:ASP:O	23:UT:921:VAL:HG22	2.18	0.43
23:UT:1932:GLU:O	23:UT:1936:ASN:ND2	2.52	0.43
24:UU:431:ILE:HD11	24:UU:489:MET:HE2	2.01	0.43
24:UU:511:ASP:O	24:UU:513:MET:N	2.52	0.43
25:UV:339:SER:HA	25:UV:342:HIS:NE2	2.33	0.43
25:UV:578:ILE:HA	25:UV:619:VAL:HA	1.99	0.43
25:UV:934:ALA:O	25:UV:937:ILE:HG22	2.17	0.43
27:UZ:19:ALA:O	27:UZ:22:LEU:HG	2.18	0.43
28:CD:31:LEU:HD23	28:CD:31:LEU:HA	1.79	0.43
28:CD:86:LEU:HD23	28:CD:86:LEU:HA	1.82	0.43
29:CE:53:ALA:O	29:CE:57:LEU:HG	2.18	0.43
29:CE:145:HIS:O	29:CE:149:ARG:HG3	2.18	0.43
29:CE:160:ASP:HA	29:CE:163:ILE:HB	2.00	0.43
35:CL:124:ASP:HB2	35:CL:808:PHE:HE1	1.84	0.43
35:CL:1113:ILE:HD13	35:CL:1113:ILE:HA	1.88	0.43
39:JF:214:ASP:OD2	39:JF:224:LYS:NZ	2.32	0.43
39:JG:110:LEU:H	39:JG:110:LEU:HD23	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JO:103:LEU:HD12	46:JO:116:ILE:HG21	2.01	0.43
49:DE:53:LYS:HD2	49:DE:53:LYS:HA	1.76	0.43
50:DF:36:ALA:O	50:DF:39:GLU:C	2.62	0.43
50:DF:185:ARG:HA	50:DF:185:ARG:CZ	2.48	0.43
52:DH:73:VAL:O	52:DH:77:LEU:HD23	2.18	0.43
56:DN:114:ARG:O	56:DN:118:ILE:HG12	2.18	0.43
61:DX:52:ILE:O	61:DX:75:GLN:N	2.49	0.43
62:DY:20:ARG:O	62:DY:21:LYS:HD3	2.17	0.43
62:DY:106:GLN:OE1	62:DY:106:GLN:HA	2.19	0.43
66:D3:96:G:H21	66:D3:426:G:H5'	1.83	0.43
66:D3:111:U:H2'	66:D3:112:A:C8	2.44	0.43
66:D3:147:A:H2'	66:D3:148:A:H8	1.83	0.43
66:D3:548:G:C5	66:D3:549:G:C8	3.06	0.43
66:D3:1592:A:N3	66:D3:1605:G:N2	2.66	0.43
66:D3:1623:C:H2'	66:D3:1624:C:H6	1.83	0.43
67:D4:172:U:H2'	67:D4:173:A:H8	1.81	0.43
69:EB:101:GLU:O	69:EB:105:SER:N	2.51	0.43
77:EJ:211:ARG:HA	77:EJ:248:ALA:HA	2.00	0.43
1:CA:89:GLU:CD	1:CA:90:PRO:HD2	2.44	0.43
2:DA:131:ASP:OD2	2:DA:180:THR:HB	2.18	0.43
3:JA:74:GLU:O	3:JA:78:LYS:HG2	2.18	0.43
3:JA:130:LEU:HB3	3:JA:135:LEU:HD21	1.99	0.43
3:JA:617:LEU:HA	3:JA:620:GLN:CD	2.43	0.43
3:JA:747:LEU:HD12	3:JA:759:THR:O	2.18	0.43
3:JA:769:ARG:HH22	3:JA:771:SER:HB2	1.82	0.43
3:JA:888:ILE:HD11	3:JA:898:ILE:HG21	2.01	0.43
4:UA:162:LEU:HB2	4:UA:172:ILE:HG22	2.01	0.43
4:UA:218:TRP:CZ3	4:UA:250:ILE:HG13	2.53	0.43
1:CB:218:ILE:CD1	29:CE:141:LEU:HA	2.48	0.43
1:CB:221:ILE:O	1:CB:221:ILE:HG22	2.18	0.43
5:UB:562:PRO:HA	5:UB:565:VAL:HG12	2.00	0.43
7:UD:280:ASP:C	7:UD:280:ASP:OD1	2.62	0.43
8:UE:111:ASP:OD1	8:UE:153:ILE:N	2.52	0.43
8:UE:318:GLN:O	8:UE:322:ILE:HG23	2.18	0.43
8:UE:443:GLN:HE21	18:UO:252:ASN:CG	2.26	0.43
9:UF:127:LYS:O	9:UF:130:HIS:HB2	2.18	0.43
10:UG:160:LEU:HD12	10:UG:161:GLN:N	2.34	0.43
11:UH:545:ARG:HG2	11:UH:574:ARG:HH22	1.83	0.43
11:UH:670:GLU:O	11:UH:674:GLU:OE1	2.37	0.43
13:UJ:669:VAL:HA	13:UJ:672:ASP:OD2	2.18	0.43
13:UJ:763:LEU:HB3	13:UJ:768:LYS:NZ	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UL:120:HIS:CE1	15:UL:146:ILE:HG13	2.53	0.43
15:UL:337:LYS:HD2	15:UL:358:SER:HB3	2.01	0.43
18:UO:315:ASN:CG	18:UO:333:LYS:HA	2.44	0.43
21:UR:142:LYS:HB3	65:D2:309:A:C2	2.53	0.43
23:UT:37:ARG:NE	23:UT:40:ASP:OD2	2.49	0.43
23:UT:44:SER:HG	31:CH:170:TYR:HE1	1.62	0.43
23:UT:270:ARG:O	23:UT:273:SER:OG	2.36	0.43
23:UT:1024:GLN:OE1	23:UT:1024:GLN:N	2.50	0.43
23:UT:1613:ALA:O	23:UT:1617:VAL:HG13	2.18	0.43
23:UT:1625:ASN:OD1	23:UT:1626:ASP:N	2.49	0.43
23:UT:1636:LEU:HD12	23:UT:1676:GLU:OE2	2.19	0.43
23:UT:1870:LYS:HB2	23:UT:1910:VAL:HG12	2.01	0.43
24:UU:522:LEU:HD23	24:UU:546:ILE:O	2.18	0.43
25:UV:222:PHE:HD2	25:UV:225:LEU:HD11	1.84	0.43
25:UV:713:LEU:HD23	25:UV:713:LEU:HA	1.82	0.43
25:UV:753:ILE:C	25:UV:754:LEU:HD22	2.44	0.43
25:UV:940:LYS:HG2	25:UV:964:PHE:CZ	2.54	0.43
26:UX:86:MET:HG2	26:UX:173:MET:HE1	2.00	0.43
27:UZ:72:ILE:CG2	27:UZ:97:PHE:HA	2.48	0.43
28:CD:108:SER:O	28:CD:111:GLU:HG3	2.18	0.43
28:CD:323:THR:OG1	28:CD:324:ASN:N	2.51	0.43
29:CE:159:VAL:HG23	29:CE:162:MET:CG	2.49	0.43
30:CF:17:THR:O	30:CF:21:LEU:HG	2.17	0.43
31:CH:312:PHE:O	62:DY:2:SER:HA	2.19	0.43
32:CI:13:LEU:O	32:CI:16:VAL:N	2.47	0.43
32:CI:156:ASP:OD2	33:CJ:7:ARG:NH2	2.48	0.43
35:CL:45:ARG:NE	35:CL:45:ARG:HA	2.34	0.43
35:CL:828:ARG:NH1	61:DX:94:ASN:OD1	2.51	0.43
35:CL:904:ASN:HA	35:CL:907:THR:HG23	2.00	0.43
35:CL:1112:PHE:CD2	44:JM:178:MET:HE1	2.54	0.43
35:CL:1148:GLU:C	35:CL:1148:GLU:CD	2.87	0.43
35:CL:1161:PHE:HB3	66:D3:1111:G:C6	2.54	0.43
37:CN:233:LYS:HB2	37:CN:233:LYS:HE3	1.88	0.43
38:JC:313:PRO:O	38:JC:314:SER:OG	2.33	0.43
39:JG:95:CYS:O	39:JG:99:LEU:HD23	2.19	0.43
43:JK:460:LYS:HZ3	66:D3:342:C:H41	1.66	0.43
45:JN:155:LEU:HD21	46:JO:197:ILE:HD11	2.01	0.43
47:JP:322:THR:OG1	47:JP:330:ARG:HB2	2.18	0.43
51:DG:49:VAL:CG2	51:DG:115:LYS:HE3	2.49	0.43
51:DG:54:GLY:O	51:DG:110:ALA:N	2.52	0.43
52:DH:45:SER:O	52:DH:46:ILE:HD13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:DH:112:ARG:NH2	66:D3:638:U:H1'	2.33	0.43
53:DI:33:PRO:HB3	66:D3:330:G:O2'	2.18	0.43
53:DI:110:ARG:NH2	53:DI:160:PHE:HB3	2.34	0.43
53:DI:195:ARG:NH1	55:DL:11:ARG:O	2.51	0.43
56:DN:54:LEU:HD13	56:DN:54:LEU:HA	1.89	0.43
62:DY:86:GLU:HB2	62:DY:91:LEU:HD21	2.00	0.43
62:DY:112:LYS:HD2	66:D3:57:G:P	2.58	0.43
65:D2:184:U:H3	65:D2:213:G:H1	1.65	0.43
66:D3:117:U:H3	66:D3:299:A:H61	1.65	0.43
66:D3:353:A:H3'	66:D3:354:C:C6	2.53	0.43
66:D3:541:A:H2'	66:D3:541:A:N3	2.34	0.43
66:D3:752:A:H2	66:D3:797:G:H22	1.66	0.43
66:D3:1474:G:H8	66:D3:1474:G:OP2	2.01	0.43
2:DA:86:LEU:HB3	2:DA:98:THR:OG1	2.18	0.43
3:JA:188:PHE:O	3:JA:192:LEU:HG	2.19	0.43
3:JA:887:ALA:O	3:JA:892:ARG:N	2.52	0.43
4:UA:164:THR:HG22	4:UA:194:VAL:O	2.18	0.43
4:UA:337:TYR:CE1	24:UU:746:PRO:HB3	2.52	0.43
4:UA:405:SER:HB2	4:UA:436:LEU:HD23	1.99	0.43
4:UA:450:LEU:HD12	4:UA:451:ASP:OD1	2.18	0.43
4:UA:592:ILE:O	4:UA:603:LEU:HD12	2.19	0.43
3:JB:201:VAL:HA	3:JB:207:VAL:HA	2.00	0.43
7:UD:100:GLU:N	7:UD:117:ILE:O	2.50	0.43
7:UD:370:ARG:HD3	7:UD:370:ARG:C	2.44	0.43
9:UF:23:LEU:HG	9:UF:24:PHE:HD1	1.83	0.43
9:UF:138:LYS:HB3	28:CD:52:SER:OG	2.19	0.43
9:UF:266:ARG:O	9:UF:269:ILE:HG12	2.18	0.43
13:UJ:706:CYS:SG	13:UJ:711:THR:OG1	2.72	0.43
13:UJ:1375:PRO:HA	13:UJ:1378:ILE:HG12	2.00	0.43
13:UJ:1627:THR:HG22	13:UJ:1669:ALA:HA	1.99	0.43
14:UK:195:LEU:O	14:UK:199:LYS:HG2	2.19	0.43
15:UL:624:LEU:HD23	15:UL:624:LEU:HA	1.89	0.43
18:UO:30:TYR:CD2	18:UO:332:LYS:HB2	2.53	0.43
18:UO:212:ASP:OD1	18:UO:212:ASP:N	2.51	0.43
20:UQ:174:TYR:HD1	20:UQ:189:HIS:HA	1.82	0.43
20:UQ:665:ILE:CG2	20:UQ:669:ASN:HB2	2.49	0.43
21:UR:253:SER:HA	21:UR:567:SER:OG	2.18	0.43
21:UR:374:ILE:HD11	21:UR:386:ILE:CG2	2.48	0.43
22:US:355:ARG:HA	22:US:355:ARG:HD3	1.74	0.43
23:UT:291:LEU:HA	23:UT:294:VAL:HG12	2.01	0.43
23:UT:666:LEU:HG	23:UT:681:VAL:HG13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:874:LEU:HD13	23:UT:874:LEU:HA	1.84	0.43
23:UT:887:ASN:HB2	23:UT:904:PHE:CZ	2.53	0.43
23:UT:921:VAL:HG23	23:UT:922:MET:HE2	2.00	0.43
23:UT:1147:ILE:O	23:UT:1150:ILE:HB	2.19	0.43
23:UT:1502:ASN:O	23:UT:1506:GLU:HG3	2.18	0.43
23:UT:1632:LEU:O	23:UT:1636:LEU:HD23	2.18	0.43
24:UU:83:LEU:HD23	24:UU:83:LEU:HA	1.80	0.43
24:UU:570:ILE:HD12	24:UU:577:VAL:HA	2.00	0.43
25:UV:188:SER:O	25:UV:193:ALA:N	2.41	0.43
25:UV:440:LEU:HA	25:UV:457:TYR:HA	2.00	0.43
25:UV:741:ILE:HA	25:UV:744:MET:HG2	2.00	0.43
25:UV:895:HIS:NE2	25:UV:899:LEU:HD11	2.32	0.43
25:UV:1205:LYS:NZ	25:UV:1215:ASN:HA	2.32	0.43
26:UX:69:THR:HG22	26:UX:102:VAL:HG13	2.00	0.43
27:UZ:217:GLN:HA	27:UZ:220:ILE:HG12	2.00	0.43
28:CD:172:ASN:HA	28:CD:175:ILE:HD12	2.01	0.43
30:CG:8:ALA:O	30:CG:9:PHE:C	2.60	0.43
32:CI:138:VAL:HG22	32:CI:158:VAL:HG12	2.00	0.43
32:CI:171:LEU:O	32:CI:174:ARG:N	2.52	0.43
33:CJ:7:ARG:HG2	33:CJ:11:GLU:OE2	2.18	0.43
33:CJ:158:PRO:C	33:CJ:159:HIS:CG	2.97	0.43
36:CM:248:GLN:HB2	36:CM:250:LYS:NZ	2.33	0.43
38:JC:139:LYS:HG2	38:JC:163:TYR:OH	2.18	0.43
38:JC:247:THR:HG23	38:JC:251:TYR:HB3	2.00	0.43
38:JC:276:LYS:O	38:JC:290:VAL:HA	2.19	0.43
39:JG:121:LEU:HD13	39:JG:121:LEU:HA	1.91	0.43
46:JO:106:ARG:O	46:JO:107:SER:OG	2.30	0.43
47:JP:350:HIS:HB2	47:JP:368:ASP:CB	2.49	0.43
49:DE:137:PRO:HD2	49:DE:149:TYR:CD1	2.53	0.43
50:DF:69:PHE:CD1	58:DQ:46:PHE:HD2	2.36	0.43
50:DF:82:PHE:HD2	64:Dc:49:ARG:CZ	2.32	0.43
50:DF:211:ILE:HD12	50:DF:214:LYS:HE3	2.01	0.43
53:DI:193:LEU:HD23	53:DI:196:LEU:HD12	2.01	0.43
54:DJ:86:LEU:HA	54:DJ:90:LYS:HD2	2.01	0.43
54:DJ:143:ILE:HG21	66:D3:767:U:C2	2.54	0.43
65:D2:182:G:C2	65:D2:216:U:C2	3.06	0.43
66:D3:556:A:H3'	66:D3:557:G:H5"	1.99	0.43
66:D3:1126:G:H2'	66:D3:1127:G:C4	2.53	0.43
66:D3:1129:U:C2	66:D3:1140:G:C2	3.07	0.43
66:D3:1140:G:H2'	66:D3:1141:G:C8	2.48	0.43
66:D3:1483:A:C2	66:D3:1524:A:C6	3.07	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:EB:260:THR:O	69:EB:264:CYS:N	2.48	0.43
75:EH:119:VAL:HA	75:EH:149:ILE:HA	2.00	0.43
1:CA:111:MET:HE1	1:CA:190:PRO:CG	2.48	0.43
1:CA:208:ILE:HD11	28:CD:159:SER:HB2	2.01	0.43
1:CA:239:CYS:SG	1:CA:240:VAL:N	2.91	0.43
3:JA:201:VAL:HG12	3:JA:202:ASP:O	2.18	0.43
3:JA:280:ALA:HB3	3:JA:467:GLU:HA	2.00	0.43
3:JA:473:PRO:HB2	3:JA:476:TYR:O	2.18	0.43
4:UA:88:ASN:HD21	24:UU:659:GLN:NE2	2.08	0.43
4:UA:323:LYS:HE3	4:UA:323:LYS:HB3	1.89	0.43
4:UA:359:ARG:HH11	34:CK:484:MET:HE2	1.82	0.43
4:UA:710:ILE:HG13	4:UA:711:LEU:N	2.33	0.43
5:UB:527:GLN:OE1	5:UB:531:GLN:HB2	2.17	0.43
6:UC:433:ARG:CD	39:JF:231:PRO:HG2	2.41	0.43
6:UC:544:ILE:HD12	6:UC:544:ILE:HA	1.77	0.43
7:UD:479:LYS:NZ	7:UD:535:GLU:HA	2.34	0.43
7:UD:535:GLU:HB2	7:UD:542:VAL:HG12	2.00	0.43
7:UD:689:ASN:C	7:UD:689:ASN:ND2	2.73	0.43
8:UE:198:THR:HB	8:UE:201:PHE:HD1	1.82	0.43
8:UE:301:LEU:HD23	8:UE:317:LEU:HD11	1.99	0.43
9:UF:311:TYR:O	9:UF:314:SER:OG	2.29	0.43
10:UG:122:GLY:CA	10:UG:385:PRO:HG2	2.49	0.43
13:UJ:136:LEU:O	13:UJ:140:LEU:HB2	2.18	0.43
13:UJ:272:LYS:HG2	13:UJ:306:LEU:HD21	2.00	0.43
13:UJ:601:SER:O	13:UJ:611:ILE:HG22	2.18	0.43
13:UJ:622:TRP:HB2	13:UJ:650:PHE:CE2	2.54	0.43
13:UJ:680:TYR:CG	13:UJ:681:ALA:N	2.87	0.43
13:UJ:1710:ALA:O	13:UJ:1714:ILE:HG12	2.18	0.43
13:UJ:1743:GLU:OE2	13:UJ:1744:ILE:HG13	2.19	0.43
14:UK:116:LYS:HE2	14:UK:116:LYS:HB2	1.79	0.43
15:UL:321:TYR:HA	15:UL:324:PHE:HB3	2.00	0.43
15:UL:403:ASN:O	15:UL:419:ILE:HG12	2.17	0.43
15:UL:655:ALA:HB3	15:UL:656:HIS:HD1	1.83	0.43
16:UM:74:GLN:O	16:UM:89:HIS:HD2	2.02	0.43
16:UM:152:PHE:CE2	16:UM:163:LEU:HD13	2.53	0.43
16:UM:732:ASN:HB2	16:UM:735:GLN:NE2	2.34	0.43
18:UO:192:LEU:HD13	18:UO:210:ASN:HA	2.00	0.43
18:UO:368:GLY:O	18:UO:374:ILE:HD11	2.18	0.43
20:UQ:51:GLN:HB3	20:UQ:67:LYS:HA	2.00	0.43
20:UQ:78:PHE:CD1	20:UQ:87:SER:HA	2.54	0.43
20:UQ:421:LYS:HE2	20:UQ:421:LYS:HB3	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:UR:174:ARG:NE	21:UR:179:ASP:OD1	2.52	0.43
21:UR:252:GLN:HE22	65:D2:234:A:H61	1.66	0.43
22:US:197:SER:HA	22:US:256:ASN:HD21	1.83	0.43
22:US:199:PHE:CZ	22:US:212:LEU:HD22	2.54	0.43
23:UT:27:LYS:HZ1	23:UT:32:ARG:HB2	1.82	0.43
23:UT:452:ASN:OD1	23:UT:490:LYS:HE3	2.18	0.43
23:UT:774:ILE:HG13	23:UT:775:ARG:N	2.34	0.43
23:UT:1091:ILE:H	23:UT:1091:ILE:HD12	1.82	0.43
23:UT:1651:ARG:NH1	23:UT:1744:GLU:OE2	2.48	0.43
23:UT:1740:THR:HG23	23:UT:1742:VAL:H	1.83	0.43
24:UU:115:ASP:N	24:UU:115:ASP:OD1	2.48	0.43
24:UU:192:ASN:O	24:UU:196:GLY:N	2.43	0.43
25:UV:612:PHE:CD2	25:UV:614:ARG:NH2	2.84	0.43
26:UX:91:LEU:HD21	54:DJ:53:ARG:HB3	2.00	0.43
27:UZ:90:ASP:O	27:UZ:92:HIS:ND1	2.51	0.43
27:UZ:155:ARG:HB3	27:UZ:175:TYR:HE2	1.83	0.43
30:CG:8:ALA:O	30:CG:80:PHE:CD2	2.71	0.43
30:CG:18:GLN:OE1	30:CG:18:GLN:HA	2.18	0.43
31:CH:66:LEU:HA	31:CH:69:GLN:OE1	2.19	0.43
31:CH:189:THR:OG1	31:CH:197:THR:OG1	1.99	0.43
31:CH:310:ASN:OD1	31:CH:310:ASN:N	2.50	0.43
31:CH:399:GLU:OE2	31:CH:402:ILE:HG12	2.19	0.43
31:CH:489:SER:OG	31:CH:499:TRP:NE1	2.33	0.43
32:CI:57:LEU:HD12	32:CI:57:LEU:HA	1.79	0.43
34:CK:308:ARG:O	34:CK:312:GLU:OE1	2.36	0.43
34:CK:508:ARG:HG3	34:CK:514:ALA:HB2	2.00	0.43
35:CL:45:ARG:O	35:CL:49:VAL:HG22	2.19	0.43
35:CL:148:PHE:CE2	35:CL:190:LEU:HD13	2.54	0.43
36:CM:244:THR:HG22	36:CM:259:GLU:CB	2.48	0.43
37:CN:263:ARG:HA	37:CN:266:LYS:HE2	2.00	0.43
37:CN:267:LYS:HE3	37:CN:267:LYS:HB3	1.87	0.43
38:JC:55:PHE:HZ	38:JC:77:TYR:O	2.02	0.43
38:JC:56:SER:O	38:JC:336:ILE:HG23	2.19	0.43
38:JC:69:GLN:HA	38:JC:86:PHE:CD2	2.54	0.43
38:JC:109:ASP:OD1	38:JC:110:ASP:N	2.51	0.43
38:JC:185:HIS:CD2	38:JC:233:THR:HA	2.53	0.43
47:JP:330:ARG:HD2	47:JP:339:SER:OG	2.18	0.43
47:JP:407:MET:HE3	47:JP:408:PRO:HD2	2.01	0.43
51:DG:28:PHE:HD1	51:DG:102:VAL:HG13	1.83	0.43
51:DG:171:LYS:HD3	66:D3:66:U:O2'	2.19	0.43
53:DI:47:ARG:NH1	66:D3:398:G:OP2	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:DI:79:ALA:CB	53:DI:164:ARG:HH11	2.28	0.43
55:DL:72:THR:H	55:DL:88:ARG:NH2	2.17	0.43
56:DN:20:ARG:HE	60:DW:56:HIS:CE1	2.35	0.43
60:DW:57:ARG:O	60:DW:58:SER:OG	2.35	0.43
65:D2:68:U:H5'	65:D2:69:U:OP2	2.19	0.43
65:D2:427:A:H8	65:D2:428:A:H1'	1.82	0.43
66:D3:627:C:N4	66:D3:628:G:C2	2.86	0.43
66:D3:760:A:H2'	66:D3:761:G:O3'	2.19	0.43
67:D4:20:U:H2'	67:D4:21:C:C6	2.53	0.43
67:D4:319:G:H2'	67:D4:320:G:O4'	2.19	0.43
67:D4:320:G:C2	67:D4:321:C:C2	3.07	0.43
1:CA:225:ARG:HA	1:CA:252:ILE:CD1	2.48	0.43
3:JA:540:LEU:HD11	3:JA:641:ASN:N	2.34	0.43
3:JA:709:LEU:HD23	3:JA:709:LEU:H	1.83	0.43
4:UA:711:LEU:HG	4:UA:712:PHE:H	1.83	0.43
4:UA:820:ALA:O	4:UA:824:ILE:HG12	2.19	0.43
1:CB:176:ALA:O	1:CB:177:SER:OG	2.31	0.43
5:UB:522:LEU:HD21	5:UB:553:TYR:CD2	2.53	0.43
6:UC:496:GLN:HG2	6:UC:497:GLN:N	2.33	0.43
6:UC:576:LEU:HD11	6:UC:580:ARG:CD	2.49	0.43
8:UE:148:LEU:HD23	8:UE:149:ASN:N	2.33	0.43
9:UF:4:THR:O	9:UF:8:LEU:HD23	2.19	0.43
9:UF:31:LEU:HD12	9:UF:32:ILE:N	2.33	0.43
10:UG:140:ARG:NH1	13:UJ:20:LEU:HD21	2.16	0.43
11:UH:549:ARG:HA	11:UH:549:ARG:NH2	2.33	0.43
12:UI:416:ILE:HA	12:UI:419:PHE:CD1	2.53	0.43
13:UJ:765:ASN:O	13:UJ:768:LYS:HB3	2.18	0.43
13:UJ:1574:ALA:HA	13:UJ:1577:LYS:HG2	2.01	0.43
15:UL:105:VAL:HG21	15:UL:115:LEU:HD23	2.01	0.43
15:UL:941:THR:HG22	66:D3:1632:C:H42	1.82	0.43
16:UM:363:ARG:HG2	16:UM:383:ILE:HG22	2.01	0.43
16:UM:513:LYS:HZ1	16:UM:534:ARG:N	2.17	0.43
20:UQ:10:TYR:HB2	20:UQ:757:PHE:CZ	2.54	0.43
20:UQ:598:LYS:NZ	20:UQ:636:ASP:HA	2.34	0.43
22:US:242:ASN:O	22:US:244:PRO:HD3	2.19	0.43
23:UT:259:LEU:HD22	23:UT:301:ASP:CG	2.44	0.43
23:UT:593:ASP:O	23:UT:597:ARG:HG2	2.18	0.43
23:UT:700:VAL:HG21	23:UT:782:MET:HE3	2.01	0.43
23:UT:706:LEU:HA	23:UT:706:LEU:HD23	1.68	0.43
23:UT:859:GLY:O	23:UT:930:PHE:HD2	2.02	0.43
23:UT:1657:THR:HA	23:UT:1660:LYS:HG2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:1816:HIS:HB2	23:UT:1895:PHE:CE1	2.54	0.43
23:UT:1919:ILE:O	23:UT:1922:ILE:HG22	2.19	0.43
23:UT:1928:ASP:O	23:UT:1931:SER:OG	2.35	0.43
24:UU:230:VAL:CG1	24:UU:244:ILE:HB	2.48	0.43
24:UU:479:SER:OG	24:UU:483:SER:OG	2.36	0.43
24:UU:567:ILE:HB	24:UU:581:LEU:HB2	2.00	0.43
25:UV:429:LEU:O	25:UV:489:LYS:NZ	2.48	0.43
25:UV:762:TYR:CE2	25:UV:900:GLU:HG2	2.50	0.43
25:UV:1048:SER:HB3	25:UV:1051:LEU:HD11	2.00	0.43
27:UZ:192:ASN:OD1	66:D3:1510:U:H5'	2.18	0.43
28:CD:388:ARG:NH2	30:CG:66:HIS:CE1	2.87	0.43
31:CH:168:ASN:HB3	31:CH:171:THR:O	2.19	0.43
36:CM:263:ASP:OD1	36:CM:264:ALA:N	2.39	0.43
36:CM:302:VAL:HG21	36:CM:329:ILE:HD11	2.00	0.43
37:CN:212:PHE:CG	63:Db:36:LYS:NZ	2.87	0.43
39:JG:171:LEU:HD22	39:JG:203:CYS:SG	2.59	0.43
42:JJ:117:TYR:CG	42:JJ:118:PRO:HD3	2.54	0.43
42:JJ:172:ILE:HB	42:JJ:176:ARG:NH1	2.33	0.43
46:JO:42:MET:HB2	46:JO:81:THR:HG22	2.00	0.43
47:JP:301:PHE:HB3	47:JP:332:TYR:CE2	2.54	0.43
50:DF:221:ALA:O	50:DF:225:ARG:HG3	2.18	0.43
51:DG:78:THR:H	51:DG:81:VAL:CG2	2.31	0.43
54:DJ:66:ASP:O	54:DJ:70:LEU:HD23	2.19	0.43
54:DJ:106:GLU:OE2	54:DJ:115:LYS:HE3	2.19	0.43
54:DJ:107:ARG:HD2	54:DJ:107:ARG:HA	1.71	0.43
57:DO:26:THR:O	57:DO:43:THR:HG23	2.19	0.43
58:DQ:48:VAL:CG2	58:DQ:78:VAL:HG13	2.48	0.43
65:D2:97:G:C6	65:D2:98:G:C6	3.07	0.43
65:D2:134:A:H2'	65:D2:135:G:H8	1.84	0.43
65:D2:224:G:C5	65:D2:225:U:C4	3.07	0.43
66:D3:243:G:H2'	66:D3:244:A:C8	2.53	0.43
66:D3:299:A:C6	66:D3:300:A:C5	3.07	0.43
66:D3:1114:G:C2	66:D3:1115:U:C4	3.06	0.43
66:D3:1271:G:C6	66:D3:1272:U:C2	3.06	0.43
66:D3:1529:C:H6	66:D3:1529:C:O5'	2.02	0.43
66:D3:1616:G:C6	66:D3:1617:U:C2	3.07	0.43
66:D3:1702:A:H3'	66:D3:1703:C:O4'	2.19	0.43
71:ED:348:SER:O	71:ED:361:THR:N	2.51	0.43
79:EN:567:VAL:O	79:EN:571:MET:N	2.41	0.43
1:CA:109:LYS:HG3	1:CA:110:ASN:N	2.33	0.43
1:CA:222:GLU:HB2	28:CD:162:LYS:NZ	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:320:TYR:CE2	1:CA:322:ARG:HD2	2.54	0.43
2:DA:119:THR:OG1	2:DA:155:TYR:HA	2.19	0.43
3:JA:734:HIS:O	3:JA:738:LYS:HG2	2.19	0.43
3:JA:846:SER:HB2	3:JA:918:ARG:NH1	2.32	0.43
4:UA:109:ARG:NH1	4:UA:109:ARG:HB2	2.34	0.43
4:UA:493:TRP:CH2	32:CI:140:PRO:HD3	2.54	0.43
4:UA:524:ARG:HG3	4:UA:585:TYR:HD2	1.84	0.43
4:UA:542:PHE:CE2	4:UA:549:GLN:HB2	2.54	0.43
5:UB:573:LEU:HA	5:UB:573:LEU:HD23	1.74	0.43
5:UB:657:PHE:O	5:UB:661:ILE:HG12	2.18	0.43
7:UD:322:ASN:CB	20:UQ:329:ASN:HD22	2.28	0.43
8:UE:15:GLN:O	8:UE:34:THR:HG22	2.19	0.43
8:UE:126:PHE:HB2	8:UE:140:PHE:HD2	1.84	0.43
8:UE:129:PHE:CZ	8:UE:136:LEU:HB2	2.54	0.43
8:UE:300:LEU:H	8:UE:319:TRP:HE1	1.66	0.43
9:UF:6:TYR:O	9:UF:9:GLU:HG3	2.18	0.43
10:UG:246:VAL:HG23	10:UG:259:TRP:O	2.19	0.43
10:UG:263:MET:CE	17:UN:836:ASN:HA	2.49	0.43
10:UG:409:ALA:O	47:JP:8:ARG:NH2	2.47	0.43
13:UJ:526:LEU:O	13:UJ:530:THR:HG23	2.18	0.43
13:UJ:1461:TRP:HB2	13:UJ:1477:PHE:CZ	2.54	0.43
13:UJ:1601:VAL:O	13:UJ:1605:LEU:HG	2.19	0.43
14:UK:223:GLU:OE2	14:UK:223:GLU:HA	2.18	0.43
15:UL:39:GLY:O	15:UL:54:ILE:HG12	2.18	0.43
15:UL:611:LEU:HA	15:UL:611:LEU:HD23	1.74	0.43
15:UL:658:SER:HB2	15:UL:677:HIS:HB3	2.01	0.43
15:UL:829:VAL:O	15:UL:833:LEU:HD23	2.19	0.43
16:UM:39:GLU:O	16:UM:40:ILE:HD13	2.19	0.43
16:UM:365:ILE:HG22	16:UM:381:VAL:HG22	2.00	0.43
16:UM:552:SER:OG	16:UM:553:GLY:N	2.51	0.43
16:UM:662:GLN:O	16:UM:666:GLU:OE1	2.37	0.43
16:UM:740:MET:HG3	16:UM:778:MET:HE1	1.99	0.43
18:UO:77:PHE:CD1	18:UO:113:PRO:HB3	2.53	0.43
18:UO:117:LEU:HD12	50:DF:192:GLU:OE1	2.17	0.43
18:UO:179:ALA:HB2	18:UO:223:PRO:HB3	1.99	0.43
18:UO:213:GLN:H	18:UO:213:GLN:CD	2.25	0.43
19:UP:172:LYS:HA	19:UP:177:ARG:HD2	1.99	0.43
20:UQ:29:THR:HA	20:UQ:32:LYS:HE2	2.01	0.43
23:UT:193:ALA:HB1	23:UT:235:LEU:HA	2.00	0.43
23:UT:296:GLU:HG2	23:UT:300:GLN:NE2	2.17	0.43
23:UT:476:LEU:O	23:UT:518:MET:HE1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:523:LEU:O	23:UT:526:TYR:HB3	2.18	0.43
23:UT:863:THR:HA	23:UT:866:GLN:HB2	2.01	0.43
23:UT:1112:TRP:CD1	23:UT:1118:LEU:HD13	2.52	0.43
23:UT:1203:VAL:HG21	23:UT:1242:LYS:HB3	2.01	0.43
23:UT:1383:ASN:OD1	23:UT:1384:LEU:N	2.52	0.43
23:UT:1401:ASN:HA	23:UT:1404:ILE:HG12	1.99	0.43
23:UT:1591:TYR:HB3	23:UT:1592:PRO:HD3	2.00	0.43
23:UT:1653:ALA:O	23:UT:1656:VAL:HG22	2.19	0.43
23:UT:1661:ILE:HG13	23:UT:1662:SER:N	2.33	0.43
24:UU:30:ILE:HD11	24:UU:653:ILE:HG13	2.01	0.43
24:UU:325:ASP:CG	24:UU:326:PRO:HD2	2.44	0.43
24:UU:457:THR:O	24:UU:458:THR:OG1	2.32	0.43
24:UU:570:ILE:CD1	24:UU:577:VAL:HA	2.48	0.43
25:UV:1144:ASP:OD2	25:UV:1146:THR:HG22	2.18	0.43
25:UV:1190:PHE:HA	25:UV:1194:HIS:CE1	2.54	0.43
25:UV:1227:GLY:HA3	25:UV:1231:VAL:CG2	2.49	0.43
26:UX:182:ILE:HG22	26:UX:183:GLU:N	2.34	0.43
28:CD:392:TYR:HB3	30:CG:62:GLU:OE1	2.18	0.43
35:CL:608:LEU:HB2	36:CM:16:ASN:OD1	2.18	0.43
35:CL:825:VAL:O	35:CL:884:ALA:HA	2.19	0.43
35:CL:833:ARG:HD2	61:DX:138:GLU:HB3	2.01	0.43
35:CL:867:THR:OG1	35:CL:868:ARG:NH2	2.52	0.43
36:CM:260:ASP:HB3	36:CM:271:LEU:HD11	2.00	0.43
37:CN:140:ALA:HA	37:CN:143:LYS:HE2	1.99	0.43
38:JC:189:ASN:HD21	38:JC:240:GLY:C	2.27	0.43
39:JF:48:ALA:HA	39:JF:209:MET:HE3	2.01	0.43
44:JM:184:ASN:HB3	44:JM:185:LYS:NZ	2.30	0.43
46:JO:197:ILE:HD12	46:JO:197:ILE:HA	1.90	0.43
47:JP:5:THR:HG23	47:JP:6:ILE:O	2.19	0.43
47:JP:309:MET:HE1	47:JP:325:TYR:CD1	2.54	0.43
47:JP:428:GLU:O	47:JP:432:ILE:HG13	2.19	0.43
49:DE:101:LEU:HD11	49:DE:109:PHE:HB3	2.00	0.43
50:DF:72:HIS:HE2	58:DQ:75:VAL:HG13	1.84	0.43
51:DG:1:MET:HE2	51:DG:109:LEU:HD12	2.01	0.43
51:DG:46:LYS:HB2	51:DG:119:GLN:NE2	2.33	0.43
52:DH:14:THR:O	52:DH:18:LEU:HG	2.19	0.43
53:DI:40:ALA:HA	53:DI:61:GLU:OE1	2.18	0.43
53:DI:172:ARG:HG2	66:D3:330:G:OP1	2.19	0.43
55:DL:63:LEU:HD11	66:D3:249:U:N3	2.33	0.43
60:DW:31:SER:O	60:DW:35:ILE:HG12	2.19	0.43
65:D2:82:A:O2'	65:D2:83:U:P	2.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:D2:185:A:C6	65:D2:186:C:C4	3.07	0.43
66:D3:26:A:H61	66:D3:600:U:H3	1.67	0.43
66:D3:350:U:O3'	66:D3:352:A:H5"	2.18	0.43
66:D3:547:U:O2'	66:D3:548:G:OP1	2.33	0.43
66:D3:579:A:O2'	66:D3:580:A:OP2	2.29	0.43
67:D4:12:U:O2'	67:D4:13:C:H5'	2.19	0.43
76:EI:238:GLN:O	76:EI:242:ALA:N	2.49	0.43
78:EK:928:VAL:O	78:EK:936:GLU:HA	2.18	0.43
1:CA:171:LEU:HD12	1:CA:172:TYR:H	1.84	0.43
2:DA:8:ARG:HH22	66:D3:907:A:H3'	1.84	0.43
2:DA:9:LEU:HD21	16:UM:619:ARG:CZ	2.49	0.43
2:DA:43:VAL:O	2:DA:43:VAL:HG13	2.19	0.43
3:JA:803:SER:O	3:JA:806:GLU:HG3	2.18	0.43
3:JA:895:ILE:H	3:JA:895:ILE:HD12	1.83	0.43
4:UA:162:LEU:HD22	4:UA:199:PHE:CZ	2.54	0.43
4:UA:273:ARG:O	4:UA:273:ARG:HG2	2.19	0.43
4:UA:319:PHE:O	4:UA:327:LEU:HD12	2.19	0.43
1:CB:236:MET:N	29:CE:121:LYS:HZ3	2.17	0.43
5:UB:573:LEU:HD12	5:UB:591:ILE:HG21	2.00	0.43
5:UB:680:LYS:HD2	5:UB:681:PRO:HD3	1.99	0.43
7:UD:33:VAL:HG12	7:UD:752:LEU:HB2	2.01	0.43
7:UD:53:HIS:CE1	7:UD:64:ASP:OD2	2.72	0.43
7:UD:231:VAL:HG13	7:UD:263:LYS:HE2	2.01	0.43
8:UE:307:GLN:HG2	8:UE:313:TYR:CD2	2.54	0.43
8:UE:368:ASN:O	20:UQ:596:LEU:HD21	2.18	0.43
9:UF:154:GLU:OE2	9:UF:160:ASN:HB2	2.19	0.43
10:UG:245:ALA:HB2	47:JP:35:PHE:HZ	1.83	0.43
11:UH:552:LYS:HA	11:UH:576:ARG:HH22	1.82	0.43
13:UJ:65:LYS:HZ1	21:UR:45:ILE:HB	1.84	0.43
13:UJ:177:LEU:O	13:UJ:181:LYS:HG2	2.18	0.43
13:UJ:1481:LEU:O	13:UJ:1485:VAL:HG23	2.19	0.43
13:UJ:1587:ARG:HA	13:UJ:1632:PHE:CD2	2.54	0.43
14:UK:7:ASP:C	14:UK:10:LYS:H	2.27	0.43
14:UK:22:ARG:HD3	14:UK:22:ARG:HA	1.64	0.43
15:UL:409:ALA:HB3	15:UL:413:SER:OG	2.18	0.43
15:UL:810:LEU:HD11	15:UL:849:HIS:NE2	2.34	0.43
16:UM:16:TYR:OH	16:UM:21:ALA:O	2.37	0.43
16:UM:195:GLY:O	16:UM:214:GLY:N	2.31	0.43
16:UM:500:SER:HA	16:UM:541:PHE:HD2	1.83	0.43
18:UO:21:THR:OG1	18:UO:24:GLN:HG2	2.19	0.43
18:UO:156:ASN:OD1	50:DF:203:LYS:HE3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:UO:411:LYS:HE3	18:UO:411:LYS:HB2	1.68	0.43
21:UR:227:LEU:HD12	21:UR:227:LEU:HA	1.92	0.43
22:US:509:ALA:O	22:US:512:SER:OG	2.26	0.43
23:UT:229:TYR:CE2	23:UT:274:LEU:HD13	2.54	0.43
23:UT:461:ILE:HA	23:UT:464:PHE:HB3	1.99	0.43
23:UT:597:ARG:NH1	23:UT:668:GLY:HA3	2.33	0.43
23:UT:844:VAL:HG22	23:UT:845:TYR:N	2.33	0.43
23:UT:897:PHE:O	23:UT:901:ILE:HG12	2.19	0.43
23:UT:1471:GLU:HB2	23:UT:1517:HIS:CE1	2.54	0.43
23:UT:1505:ASN:HA	23:UT:1508:GLN:CD	2.44	0.43
24:UU:190:LEU:HD13	24:UU:200:PHE:CD2	2.47	0.43
24:UU:221:ILE:HD13	24:UU:235:MET:HE3	2.01	0.43
24:UU:595:PRO:HB3	24:UU:636:PRO:O	2.19	0.43
25:UV:256:TYR:HD2	25:UV:592:PHE:CE2	2.36	0.43
25:UV:532:PRO:HG2	25:UV:693:LYS:HE2	2.01	0.43
25:UV:1206:PRO:HA	25:UV:1212:VAL:HA	2.00	0.43
25:UV:1208:ASP:OD1	25:UV:1211:ASN:N	2.42	0.43
27:UZ:33:ASP:HB2	27:UZ:247:SER:HB2	2.01	0.43
29:CE:87:LEU:HB3	29:CE:107:VAL:HG23	2.00	0.43
29:CE:380:ARG:NH1	29:CE:382:ASP:OD1	2.45	0.43
31:CH:132:VAL:O	31:CH:135:TYR:OH	2.33	0.43
33:CJ:14:TYR:CZ	33:CJ:18:GLN:NE2	2.87	0.43
33:CJ:59:ASP:O	33:CJ:62:LEU:HB2	2.19	0.43
33:CJ:157:PHE:O	33:CJ:159:HIS:N	2.48	0.43
35:CL:170:VAL:HA	35:CL:205:PHE:O	2.19	0.43
39:JF:65:TYR:CD1	39:JF:146:HIS:NE2	2.87	0.43
39:JF:176:ARG:O	39:JF:202:ILE:HD12	2.18	0.43
42:JJ:205:ILE:HD11	42:JJ:251:ILE:HG23	1.99	0.43
42:JJ:246:SER:O	42:JJ:250:LEU:HG	2.19	0.43
42:JJ:272:GLU:HG2	42:JJ:273:ARG:H	1.83	0.43
44:JM:206:TYR:HH	66:D3:1490:C:H5	1.63	0.43
46:JO:58:ASN:ND2	65:D2:347:U:H5"	2.19	0.43
46:JO:94:ILE:HD12	46:JO:97:ALA:HB3	2.01	0.43
47:JP:147:LEU:O	47:JP:148:TRP:HD1	2.02	0.43
49:DE:18:TRP:CZ2	49:DE:43:PRO:HD3	2.54	0.43
52:DH:51:VAL:HG12	52:DH:55:LYS:O	2.19	0.43
53:DI:34:ALA:HB2	53:DI:56:ARG:HB3	2.00	0.43
55:DL:53:TYR:OH	55:DL:114:ALA:HB2	2.19	0.43
55:DL:80:MET:HE2	55:DL:83:THR:OG1	2.19	0.43
58:DQ:36:ILE:HG23	58:DQ:49:TYR:HE1	1.83	0.43
64:Dc:25:VAL:HA	64:Dc:44:VAL:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:D2:448:G:C2	65:D2:449:U:C2	3.06	0.43
66:D3:330:G:H2'	66:D3:331:A:H8	1.83	0.43
66:D3:397:A:C6	66:D3:398:G:C5	3.07	0.43
66:D3:685:A:N3	66:D3:685:A:H2'	2.34	0.43
66:D3:910:C:H2'	66:D3:911:U:O4'	2.19	0.43
66:D3:1148:C:H2'	66:D3:1149:G:H8	1.83	0.43
66:D3:1721:A:N1	66:D3:1722:A:C5	2.87	0.43
67:D4:164:C:H2'	67:D4:165:G:H8	1.84	0.43
1:CA:210:MET:HE3	1:CA:210:MET:HB2	1.82	0.42
2:DA:83:LYS:HE3	2:DA:83:LYS:HB2	1.71	0.42
3:JA:115:LEU:HD21	3:JA:137:ARG:NE	2.34	0.42
3:JA:188:PHE:CE2	3:JA:192:LEU:HD11	2.54	0.42
3:JA:790:SER:OG	3:JA:891:GLN:HG3	2.19	0.42
4:UA:113:LEU:HD23	4:UA:114:ALA:N	2.34	0.42
4:UA:361:VAL:HG22	4:UA:371:VAL:HG22	2.01	0.42
4:UA:789:SER:OG	4:UA:790:GLN:N	2.52	0.42
4:UA:802:LEU:HD23	4:UA:802:LEU:HA	1.80	0.42
4:UA:853:ASP:OD1	4:UA:854:GLY:N	2.52	0.42
1:CB:286:PHE:CE2	1:CB:314:CYS:HB3	2.53	0.42
7:UD:122:VAL:HG21	7:UD:136:ASN:HB2	1.99	0.42
7:UD:270:ALA:HB3	21:UR:446:ARG:NH2	2.34	0.42
14:UK:162:SER:OG	14:UK:163:GLU:OE1	2.36	0.42
15:UL:253:LYS:HZ1	66:D3:1741:U:H5"	1.83	0.42
15:UL:658:SER:HB2	15:UL:677:HIS:HD1	1.84	0.42
16:UM:189:HIS:CD2	16:UM:189:HIS:N	2.87	0.42
16:UM:529:LEU:HG	16:UM:560:TRP:CD2	2.54	0.42
16:UM:648:THR:O	16:UM:652:ILE:HG12	2.19	0.42
18:UO:500:GLU:O	18:UO:504:ILE:HG12	2.19	0.42
20:UQ:226:SER:HA	20:UQ:237:LEU:O	2.19	0.42
20:UQ:265:ASP:CG	20:UQ:267:MET:H	2.27	0.42
21:UR:528:GLN:NE2	21:UR:546:LEU:O	2.52	0.42
23:UT:174:CYS:O	23:UT:178:ILE:HG12	2.19	0.42
23:UT:476:LEU:C	23:UT:518:MET:HE1	2.43	0.42
23:UT:1680:THR:HG23	23:UT:1681:LEU:CD1	2.44	0.42
24:UU:587:ARG:HH21	24:UU:605:LEU:HD21	1.83	0.42
25:UV:141:TRP:CZ3	25:UV:144:LYS:HD2	2.54	0.42
25:UV:328:ALA:O	25:UV:554:LYS:NZ	2.49	0.42
25:UV:558:LEU:HD23	25:UV:562:LEU:HD23	2.00	0.42
25:UV:968:TRP:NE1	25:UV:973:ASP:O	2.39	0.42
26:UX:182:ILE:HD12	26:UX:182:ILE:HG23	1.78	0.42
28:CD:119:ILE:HD13	28:CD:119:ILE:HA	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CE:138:LYS:H	29:CE:138:LYS:HE2	1.84	0.42
29:CE:230:GLU:O	29:CE:233:GLU:HG3	2.18	0.42
33:CJ:77:TYR:HE1	33:CJ:156:HIS:CE1	2.37	0.42
37:CN:136:ASN:HA	37:CN:139:ASN:ND2	2.32	0.42
38:JC:50:ILE:HG13	38:JC:89:LEU:O	2.19	0.42
38:JC:233:THR:O	38:JC:245:CYS:HA	2.19	0.42
39:JF:89:PRO:HG2	39:JF:134:PHE:HZ	1.84	0.42
39:JG:110:LEU:HD23	39:JG:110:LEU:N	2.34	0.42
43:JK:487:ASP:HA	43:JK:490:ILE:HB	2.00	0.42
47:JP:94:TYR:HD2	47:JP:150:ILE:CG2	2.26	0.42
47:JP:109:HIS:NE2	47:JP:138:SER:OG	2.31	0.42
49:DE:35:PRO:HG3	66:D3:122:U:O2'	2.19	0.42
49:DE:154:ILE:HA	49:DE:174:LYS:NZ	2.34	0.42
49:DE:181:VAL:HA	49:DE:228:ILE:H	1.84	0.42
50:DF:207:THR:HA	50:DF:212:LYS:HZ3	1.83	0.42
52:DH:15:GLU:HG2	52:DH:16:LEU:HD22	2.01	0.42
52:DH:38:LEU:HD11	52:DH:77:LEU:HD11	2.00	0.42
52:DH:45:SER:OG	52:DH:46:ILE:N	2.52	0.42
57:DO:61:MET:O	57:DO:65:GLN:HG2	2.18	0.42
58:DQ:60:PHE:CE1	58:DQ:89:LEU:HD13	2.53	0.42
60:DW:31:SER:HG	60:DW:34:ILE:H	1.55	0.42
61:DX:114:LYS:NZ	66:D3:568:G:O3'	2.52	0.42
61:DX:135:LEU:N	61:DX:135:LEU:HD12	2.33	0.42
62:DY:125:LEU:HA	62:DY:128:LYS:HG3	2.00	0.42
65:D2:202:U:H2'	65:D2:203:C:H6	1.84	0.42
66:D3:-4:A:N6	66:D3:1:U:C2	2.87	0.42
66:D3:69:G:C6	66:D3:70:C:C4	3.07	0.42
66:D3:93:A:C6	66:D3:398:G:C6	3.07	0.42
66:D3:195:G:H2'	66:D3:196:G:H8	1.84	0.42
66:D3:557:G:N1	66:D3:558:U:C2	2.87	0.42
66:D3:1150:G:C2	66:D3:1151:A:C4	3.07	0.42
66:D3:1219:A:N1	66:D3:1265:G:H1'	2.34	0.42
66:D3:1649:G:H2'	66:D3:1650:U:H6	1.83	0.42
66:D3:1679:G:N2	66:D3:1722:A:H62	2.16	0.42
67:D4:265:C:C2	67:D4:307:G:C2	3.07	0.42
1:CA:226:HIS:O	1:CA:229:LYS:N	2.51	0.42
2:DA:30:PHE:CE1	2:DA:94:LYS:HA	2.53	0.42
3:JA:81:ILE:CD1	3:JA:88:VAL:HA	2.49	0.42
3:JA:724:GLY:HA2	3:JA:763:LEU:HA	2.01	0.42
5:UB:605:ASP:OD1	5:UB:610:ARG:HD3	2.19	0.42
8:UE:121:ASP:OD2	8:UE:123:SER:OG	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:182:MET:HB3	8:UE:184:PHE:CE2	2.54	0.42
9:UF:6:TYR:CD2	65:D2:487:A:C6	3.07	0.42
9:UF:126:TYR:HA	9:UF:129:ILE:HD12	1.99	0.42
9:UF:273:ILE:HD13	17:UN:341:LYS:NZ	2.35	0.42
10:UG:98:SER:HB2	13:UJ:84:ASN:O	2.19	0.42
13:UJ:330:VAL:O	13:UJ:333:LEU:HG	2.19	0.42
13:UJ:362:LYS:HB3	13:UJ:365:ILE:HD13	2.00	0.42
13:UJ:615:ASN:HB3	13:UJ:618:ASP:OD2	2.19	0.42
13:UJ:741:LEU:HA	13:UJ:742:ASN:HA	1.61	0.42
13:UJ:1483:SER:O	13:UJ:1487:ASN:ND2	2.52	0.42
14:UK:130:SER:O	14:UK:130:SER:OG	2.31	0.42
14:UK:223:GLU:HA	14:UK:226:LYS:HG3	2.02	0.42
15:UL:298:LYS:O	15:UL:302:ARG:HG3	2.19	0.42
15:UL:500:TRP:CZ3	15:UL:524:HIS:HB3	2.55	0.42
16:UM:420:ASN:O	16:UM:421:SER:C	2.60	0.42
16:UM:529:LEU:HG	16:UM:560:TRP:CE3	2.55	0.42
16:UM:536:LEU:HA	16:UM:552:SER:HA	2.00	0.42
16:UM:556:THR:HB	16:UM:572:GLU:OE1	2.19	0.42
16:UM:625:THR:HA	16:UM:632:ILE:HA	2.00	0.42
18:UO:440:GLU:CG	18:UO:441:PRO:HD3	2.49	0.42
20:UQ:215:VAL:O	20:UQ:219:ASP:HB2	2.19	0.42
20:UQ:240:PRO:O	20:UQ:244:ILE:HG12	2.19	0.42
20:UQ:396:ILE:HG22	20:UQ:397:LYS:N	2.35	0.42
20:UQ:410:ASN:ND2	20:UQ:488:LEU:O	2.53	0.42
22:US:415:MET:HB2	22:US:461:SER:O	2.19	0.42
23:UT:323:PHE:CE2	23:UT:736:LEU:HB2	2.55	0.42
23:UT:555:LEU:HD12	23:UT:596:ILE:HG13	2.00	0.42
23:UT:904:PHE:HA	23:UT:910:SER:O	2.18	0.42
23:UT:1661:ILE:O	23:UT:1665:LEU:HB2	2.19	0.42
23:UT:1710:LEU:HB2	23:UT:1760:ASN:HD22	1.84	0.42
24:UU:232:MET:HA	24:UU:232:MET:CE	2.48	0.42
29:CE:215:ARG:HH12	29:CE:242:SER:HB3	1.85	0.42
30:CF:50:GLU:N	30:CF:102:ILE:O	2.52	0.42
31:CH:443:LEU:N	31:CH:471:GLN:O	2.52	0.42
32:CI:33:MET:HG2	32:CI:38:ILE:CG1	2.49	0.42
32:CI:61:LEU:HD23	32:CI:61:LEU:HA	1.80	0.42
33:CJ:287:LYS:HG2	33:CJ:288:ASP:N	2.33	0.42
35:CL:69:PRO:HG3	35:CL:274:TYR:CD2	2.54	0.42
35:CL:767:ILE:HG13	35:CL:768:GLU:OE1	2.19	0.42
35:CL:976:ILE:HG13	35:CL:987:TYR:CD2	2.54	0.42
35:CL:1025:GLU:N	35:CL:1025:GLU:OE1	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:1093:THR:OG1	35:CL:1094:TYR:N	2.52	0.42
39:JG:37:ILE:HG13	39:JG:38:THR:N	2.34	0.42
39:JG:188:ARG:NH1	39:JG:191:ASP:HB2	2.35	0.42
44:JM:65:LEU:HD12	44:JM:66:GLU:N	2.34	0.42
47:JP:280:ALA:HB1	47:JP:308:VAL:HG12	2.01	0.42
49:DE:126:VAL:HG13	49:DE:139:VAL:HG21	2.02	0.42
50:DF:92:ARG:NH2	66:D3:1613:U:OP1	2.52	0.42
54:DJ:56:ALA:O	54:DJ:60:LEU:HD23	2.20	0.42
55:DL:124:THR:CG2	55:DL:141:LYS:HE2	2.49	0.42
60:DW:71:LYS:HB3	60:DW:130:TYR:CZ	2.54	0.42
63:Db:40:CYS:HB2	63:Db:42:ASN:ND2	2.34	0.42
65:D2:90:G:C2	65:D2:91:U:C2	3.07	0.42
65:D2:202:U:H2'	65:D2:203:C:C6	2.54	0.42
65:D2:300:C:C2	65:D2:301:U:C5	3.07	0.42
66:D3:172:C:H2'	66:D3:173:A:C8	2.55	0.42
66:D3:364:G:H2'	66:D3:365:G:H8	1.84	0.42
66:D3:514:G:O2'	66:D3:515:A:H8	2.02	0.42
66:D3:549:G:C2	66:D3:550:A:C5	3.08	0.42
66:D3:655:G:H5"	66:D3:679:U:H3	1.83	0.42
66:D3:769:A:H5'	66:D3:770:A:OP2	2.19	0.42
66:D3:867:G:H2'	66:D3:868:G:H8	1.83	0.42
66:D3:915:A:C5	66:D3:916:U:C4	3.08	0.42
66:D3:1055:U:H2'	66:D3:1056:U:O4'	2.19	0.42
67:D4:54:C:C4	67:D4:55:A:N7	2.87	0.42
67:D4:199:G:H2'	67:D4:200:C:C6	2.54	0.42
71:ED:345:SER:HA	71:ED:365:GLY:H	1.84	0.42
7:UD:79:TRP:HH2	7:UD:376:GLU:HG3	1.82	0.42
7:UD:113:ARG:HD3	7:UD:174:PRO:HA	2.01	0.42
8:UE:139:HIS:CG	8:UE:140:PHE:N	2.87	0.42
8:UE:447:SER:OG	8:UE:448:ASN:N	2.49	0.42
10:UG:256:VAL:HB	10:UG:270:LEU:HB2	1.99	0.42
10:UG:502:ARG:HG3	65:D2:370:U:H5	1.84	0.42
11:UH:548:PRO:HB2	11:UH:549:ARG:H	1.57	0.42
13:UJ:637:ILE:HG22	13:UJ:637:ILE:O	2.19	0.42
13:UJ:651:LEU:HD21	13:UJ:683:SER:HB2	2.00	0.42
13:UJ:1478:LEU:HA	13:UJ:1481:LEU:HG	2.01	0.42
13:UJ:1688:ASN:O	13:UJ:1691:ILE:HG12	2.19	0.42
14:UK:13:HIS:CE1	66:D3:555:A:N1	2.87	0.42
14:UK:109:THR:O	14:UK:113:ILE:HG12	2.19	0.42
14:UK:135:ILE:CG2	19:UP:178:VAL:HG22	2.49	0.42
15:UL:554:THR:OG1	15:UL:569:LEU:O	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:UM:387:HIS:HD2	16:UM:413:ILE:HD11	1.84	0.42
16:UM:442:LEU:HD12	16:UM:442:LEU:O	2.19	0.42
17:UN:849:PHE:CE1	66:D3:-4:A:C4	3.07	0.42
18:UO:439:LEU:O	18:UO:442:LEU:HB3	2.20	0.42
20:UQ:249:THR:O	20:UQ:257:ARG:NH1	2.47	0.42
20:UQ:347:LEU:HD21	20:UQ:355:SER:HB2	2.00	0.42
21:UR:434:GLU:CD	21:UR:447:TRP:HE1	2.27	0.42
23:UT:52:ASP:O	23:UT:56:GLU:OE1	2.38	0.42
23:UT:140:ILE:HD13	23:UT:140:ILE:HA	1.83	0.42
23:UT:727:VAL:HG12	23:UT:728:LEU:HD23	2.01	0.42
23:UT:901:ILE:HG21	23:UT:952:VAL:CG2	2.50	0.42
23:UT:1002:ASN:HA	23:UT:1005:ASN:ND2	2.34	0.42
23:UT:1241:GLN:HB3	23:UT:1245:LYS:NZ	2.34	0.42
23:UT:1688:HIS:CG	23:UT:1745:ILE:HG12	2.54	0.42
24:UU:58:PHE:CE1	24:UU:101:TYR:HD2	2.37	0.42
24:UU:226:VAL:O	24:UU:250:ARG:HA	2.19	0.42
25:UV:481:THR:N	25:UV:484:SER:OG	2.52	0.42
27:UZ:194:ASP:CG	27:UZ:195:ASN:H	2.27	0.42
27:UZ:249:SER:O	66:D3:1497:U:O2'	2.35	0.42
28:CD:104:ASN:O	28:CD:107:PRO:HD2	2.20	0.42
28:CD:222:PHE:HE2	28:CD:240:LEU:HB2	1.84	0.42
29:CE:214:ILE:HG23	29:CE:217:LYS:H	1.84	0.42
31:CH:205:SER:OG	31:CH:206:LYS:N	2.52	0.42
32:CI:67:THR:O	32:CI:67:THR:HG22	2.18	0.42
33:CJ:23:SER:O	33:CJ:26:GLN:HB2	2.19	0.42
34:CK:305:ILE:HG22	34:CK:309:LYS:NZ	2.34	0.42
35:CL:51:GLU:HA	35:CL:54:LEU:CD2	2.49	0.42
36:CM:26:LEU:HD23	36:CM:26:LEU:HA	1.82	0.42
38:JC:63:LYS:HE3	38:JC:66:ARG:HH22	1.83	0.42
38:JC:200:GLU:HG2	38:JC:230:GLN:HA	2.01	0.42
47:JP:92:ILE:HD11	47:JP:148:TRP:CZ3	2.54	0.42
47:JP:244:ILE:HB	47:JP:258:ILE:CG2	2.50	0.42
47:JP:433:GLU:O	47:JP:436:SER:OG	2.28	0.42
49:DE:177:ALA:HA	49:DE:195:ILE:HG13	2.00	0.42
50:DF:81:ARG:HD3	50:DF:82:PHE:CZ	2.54	0.42
50:DF:197:GLU:OE1	50:DF:208:SER:HB2	2.19	0.42
55:DL:133:LYS:HB2	66:D3:338:C:P	2.60	0.42
62:DY:76:TYR:OH	62:DY:86:GLU:OE2	2.32	0.42
65:D2:316:U:C4	65:D2:317:C:N4	2.87	0.42
66:D3:206:A:H1'	66:D3:262:U:C2	2.54	0.42
66:D3:312:A:H62	66:D3:352:A:H1'	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:488:G:C6	66:D3:489:C:C4	3.08	0.42
66:D3:648:G:H2'	66:D3:648:G:N3	2.34	0.42
66:D3:887:A:H2'	66:D3:888:U:C6	2.53	0.42
66:D3:1642:G:C6	66:D3:1643:U:C4	3.07	0.42
66:D3:1667:A:H2'	66:D3:1668:G:H8	1.84	0.42
66:D3:1736:G:C2	66:D3:1737:G:C4	3.08	0.42
66:D3:1781:A:H5"	66:D3:1782:A:C8	2.54	0.42
67:D4:138:A:H2'	67:D4:139:G:O4'	2.19	0.42
78:EK:327:LYS:C	78:EK:387:GLN:H	2.22	0.42
1:CA:156:MET:SD	6:UC:594:GLU:CD	3.02	0.42
1:CA:295:GLU:OE2	1:CA:295:GLU:HA	2.18	0.42
2:DA:129:THR:HG22	2:DA:133:TYR:O	2.19	0.42
3:JA:561:ALA:O	3:JA:589:ALA:HA	2.19	0.42
3:JA:617:LEU:HA	3:JA:620:GLN:HG2	2.01	0.42
3:JA:651:SER:HA	3:JA:654:ILE:HG22	2.00	0.42
3:JA:773:TRP:HB2	3:JA:777:PHE:CZ	2.55	0.42
3:JA:856:GLY:HA2	3:JA:859:ILE:HG12	2.01	0.42
4:UA:153:THR:O	4:UA:162:LEU:HD23	2.19	0.42
4:UA:255:PHE:CE1	65:D2:323:A:C5	3.08	0.42
5:UB:478:ILE:HA	5:UB:481:MET:CG	2.49	0.42
7:UD:399:VAL:HG12	7:UD:401:ILE:HD11	2.02	0.42
7:UD:467:ASN:O	7:UD:470:LEU:HG	2.19	0.42
7:UD:580:LYS:O	7:UD:596:MET:HG3	2.20	0.42
9:UF:161:PHE:CD2	9:UF:192:PHE:CD2	3.08	0.42
10:UG:42:LEU:HD13	17:UN:850:PRO:O	2.20	0.42
10:UG:218:ASP:OD1	10:UG:218:ASP:C	2.62	0.42
10:UG:471:MET:HB3	10:UG:471:MET:HE2	1.79	0.42
10:UG:531:HIS:HE1	65:D2:365:G:H4'	1.78	0.42
11:UH:544:LEU:HB3	11:UH:551:PHE:HD1	1.83	0.42
12:UI:413:GLU:CD	12:UI:414:PRO:HD2	2.45	0.42
12:UI:502:ARG:HA	12:UI:505:MET:HE3	2.01	0.42
14:UK:106:TYR:CE1	14:UK:110:LEU:HD21	2.54	0.42
15:UL:57:GLY:HA3	15:UL:385:ILE:CD1	2.49	0.42
15:UL:169:PHE:N	15:UL:210:LEU:HD12	2.35	0.42
15:UL:211:ALA:O	15:UL:217:LEU:HD12	2.19	0.42
15:UL:538:ARG:O	15:UL:546:LEU:HD12	2.20	0.42
15:UL:661:TRP:CD1	15:UL:677:HIS:HB2	2.54	0.42
16:UM:426:ILE:O	16:UM:426:ILE:HG13	2.20	0.42
16:UM:754:THR:OG1	16:UM:755:ILE:HD12	2.18	0.42
18:UO:28:ARG:NH1	65:D2:142:U:O2	2.52	0.42
18:UO:149:THR:CG2	18:UO:164:LEU:HB3	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:UO:193:ILE:O	18:UO:208:SER:HA	2.19	0.42
18:UO:273:ILE:HA	18:UO:282:LYS:O	2.19	0.42
20:UQ:282:ILE:HD11	20:UQ:312:LEU:HD13	2.01	0.42
22:US:285:ILE:HD13	22:US:285:ILE:HA	1.84	0.42
23:UT:519:VAL:HG11	23:UT:548:TYR:CE2	2.54	0.42
23:UT:520:GLY:HA3	23:UT:553:ASN:HB3	2.01	0.42
23:UT:1017:LEU:HD23	23:UT:1017:LEU:HA	1.77	0.42
23:UT:1280:LEU:O	23:UT:1284:LEU:HD23	2.19	0.42
23:UT:1610:MET:N	23:UT:1611:PRO:HD2	2.34	0.42
24:UU:68:LEU:O	65:D2:296:C:O2'	2.37	0.42
24:UU:622:GLY:HA3	24:UU:673:PHE:CZ	2.54	0.42
25:UV:129:HIS:O	25:UV:132:TYR:HB2	2.19	0.42
25:UV:751:LYS:HB3	25:UV:785:GLU:O	2.20	0.42
25:UV:906:TYR:HD1	25:UV:942:PHE:CD1	2.38	0.42
25:UV:1163:LEU:HD12	25:UV:1183:THR:O	2.18	0.42
26:UX:141:LEU:O	26:UX:144:ARG:N	2.52	0.42
28:CD:173:HIS:HE1	29:CE:190:TRP:NE1	2.18	0.42
28:CD:203:PHE:CE2	28:CD:206:LEU:HB2	2.54	0.42
30:CG:57:ASP:HB3	31:CH:469:LEU:HD11	2.01	0.42
31:CH:141:LEU:HB3	31:CH:144:GLU:OE2	2.18	0.42
31:CH:260:LEU:HA	31:CH:260:LEU:HD23	1.80	0.42
32:CI:13:LEU:O	32:CI:14:LYS:C	2.62	0.42
33:CJ:236:HIS:ND1	33:CJ:249:GLU:HA	2.34	0.42
35:CL:94:THR:HG23	35:CL:96:SER:N	2.35	0.42
36:CM:132:ALA:HB1	36:CM:257:PHE:HE2	1.83	0.42
37:CN:82:SER:HA	37:CN:133:SER:HA	2.01	0.42
38:JC:106:ILE:HG23	38:JC:111:TRP:HA	2.00	0.42
38:JC:238:ASN:HB3	38:JC:279:TRP:CZ3	2.55	0.42
38:JC:254:ILE:O	38:JC:263:SER:OG	2.24	0.42
39:JG:77:LEU:HD22	39:JG:84:ILE:HG13	2.01	0.42
39:JG:93:HIS:NE2	39:JG:132:ARG:O	2.41	0.42
42:JJ:272:GLU:HG2	42:JJ:273:ARG:N	2.34	0.42
44:JM:114:ARG:HA	44:JM:117:VAL:HG12	2.02	0.42
47:JP:91:VAL:HG23	47:JP:106:PHE:O	2.20	0.42
47:JP:231:GLU:C	47:JP:233:ASP:H	2.27	0.42
47:JP:330:ARG:CZ	47:JP:342:ILE:HD12	2.49	0.42
47:JP:425:LYS:HA	47:JP:425:LYS:HD3	1.52	0.42
51:DG:1:MET:HG2	51:DG:107:ALA:O	2.20	0.42
52:DH:75:THR:O	52:DH:79:ARG:HG2	2.18	0.42
53:DI:110:ARG:HH21	53:DI:160:PHE:HB3	1.84	0.42
55:DL:140:VAL:O	55:DL:141:LYS:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:DN:72:MET:HA	56:DN:75:LEU:HB2	2.00	0.42
60:DW:84:GLY:O	60:DW:88:LYS:HG2	2.20	0.42
61:DX:76:LEU:O	61:DX:80:GLY:N	2.52	0.42
65:D2:180:G:H2'	65:D2:181:A:H8	1.83	0.42
65:D2:252:A:O5'	65:D2:254:C:H5'	2.19	0.42
66:D3:16:G:N2	67:D4:16:A:C4	2.87	0.42
66:D3:187:G:C5	66:D3:197:A:N6	2.86	0.42
66:D3:192:U:O2'	66:D3:193:U:O4'	2.31	0.42
66:D3:230:C:H1'	66:D3:238:U:O4	2.18	0.42
66:D3:487:G:H8	66:D3:487:G:O5'	2.02	0.42
66:D3:760:A:C3'	66:D3:761:G:H4'	2.44	0.42
66:D3:1049:U:N3	66:D3:1050:G:N7	2.67	0.42
66:D3:1270:G:H2'	66:D3:1271:G:C8	2.54	0.42
79:EN:846:LEU:O	79:EN:850:TYR:N	2.51	0.42
2:DA:240:LYS:HE3	2:DA:240:LYS:HB2	1.94	0.42
3:JA:748:ARG:NH2	3:JA:757:GLU:O	2.53	0.42
3:JA:771:SER:C	3:JA:773:TRP:H	2.27	0.42
3:JA:779:LYS:HG3	3:JA:783:LYS:NZ	2.34	0.42
4:UA:288:ASP:OD2	4:UA:290:PRO:HD2	2.19	0.42
1:CB:102:LYS:HA	1:CB:102:LYS:HD2	1.81	0.42
1:CB:190:PRO:HA	1:CB:216:ASN:HD21	1.84	0.42
1:CB:228:GLN:C	1:CB:230:TYR:N	2.76	0.42
5:UB:284:ALA:O	5:UB:286:SER:N	2.52	0.42
5:UB:488:ASN:N	5:UB:488:ASN:OD1	2.51	0.42
5:UB:488:ASN:ND2	5:UB:491:ASP:HB2	2.35	0.42
5:UB:784:ILE:O	5:UB:785:VAL:C	2.63	0.42
5:UB:789:ASN:OD1	61:DX:117:ILE:HG23	2.20	0.42
6:UC:548:LYS:HA	61:DX:139:LYS:HZ3	1.83	0.42
6:UC:560:ASN:CG	6:UC:561:SER:N	2.75	0.42
7:UD:419:LYS:C	7:UD:420:LEU:HD22	2.45	0.42
7:UD:467:ASN:O	7:UD:471:LEU:HG	2.20	0.42
7:UD:769:PHE:CE1	19:UP:211:LEU:HB2	2.54	0.42
8:UE:90:VAL:HG23	8:UE:91:LEU:N	2.35	0.42
8:UE:253:LEU:HD21	8:UE:255:ILE:HD11	2.01	0.42
11:UH:671:ARG:NH2	12:UI:453:PRO:HG2	2.35	0.42
13:UJ:169:ARG:NH1	65:D2:469:C:C5	2.87	0.42
13:UJ:190:LYS:HE2	13:UJ:237:ILE:HG12	2.01	0.42
13:UJ:492:LYS:HE2	13:UJ:710:LYS:NZ	2.34	0.42
13:UJ:1573:LEU:HD21	13:UJ:1618:LEU:HB2	2.01	0.42
14:UK:49:LYS:O	14:UK:52:ARG:N	2.52	0.42
14:UK:118:LEU:HD13	14:UK:204:HIS:CB	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UL:164:ASP:HB3	15:UL:183:ASP:H	1.84	0.42
15:UL:908:VAL:HG12	16:UM:769:ILE:HG23	2.01	0.42
16:UM:43:ILE:HA	16:UM:52:ILE:HA	2.00	0.42
16:UM:231:CYS:O	16:UM:232:LYS:HD3	2.20	0.42
16:UM:378:PRO:C	16:UM:379:LEU:HD22	2.44	0.42
16:UM:779:VAL:O	16:UM:782:VAL:HG12	2.19	0.42
17:UN:307:ARG:CZ	66:D3:-6:A:C8	3.02	0.42
18:UO:404:ALA:HB2	18:UO:417:VAL:HG11	2.00	0.42
20:UQ:141:LEU:HA	20:UQ:155:THR:HG22	2.01	0.42
20:UQ:213:LYS:O	20:UQ:217:THR:HG23	2.20	0.42
20:UQ:214:ASP:O	20:UQ:217:THR:OG1	2.24	0.42
20:UQ:776:PHE:CZ	20:UQ:784:GLY:HA3	2.54	0.42
20:UQ:862:LYS:HD3	20:UQ:863:LYS:N	2.35	0.42
22:US:397:THR:O	22:US:400:PRO:HD2	2.20	0.42
23:UT:45:SER:O	23:UT:46:HIS:C	2.61	0.42
23:UT:184:SER:HA	23:UT:227:ASN:ND2	2.35	0.42
23:UT:445:LEU:C	23:UT:449:ARG:HE	2.26	0.42
23:UT:648:GLU:HA	23:UT:651:LYS:HZ3	1.83	0.42
23:UT:951:SER:O	23:UT:954:PRO:HD2	2.20	0.42
23:UT:972:LEU:HD11	23:UT:1000:PHE:CB	2.49	0.42
23:UT:1143:LYS:NZ	23:UT:1145:ALA:HB3	2.34	0.42
23:UT:1186:TYR:CE2	23:UT:1227:ILE:HA	2.54	0.42
23:UT:1935:LYS:CB	23:UT:1939:ARG:HH11	2.33	0.42
24:UU:176:TYR:HB3	24:UU:179:LYS:HG3	2.01	0.42
24:UU:272:ASP:OD1	24:UU:288:LYS:HA	2.19	0.42
26:UX:86:MET:HE3	26:UX:173:MET:SD	2.59	0.42
27:UZ:36:ILE:HB	27:UZ:201:VAL:O	2.19	0.42
27:UZ:49:ASN:HA	27:UZ:193:ASN:OD1	2.19	0.42
29:CE:117:TYR:HA	29:CE:120:ILE:HG12	2.01	0.42
31:CH:164:GLN:HG3	31:CH:185:LEU:HD11	2.00	0.42
31:CH:327:ASP:HB2	31:CH:403:ASP:O	2.19	0.42
32:CI:7:HIS:NE2	32:CI:11:LYS:HE3	2.35	0.42
32:CI:108:ARG:NH1	65:D2:394:U:OP1	2.51	0.42
35:CL:236:LYS:HA	35:CL:236:LYS:HD3	1.84	0.42
35:CL:831:ARG:CZ	35:CL:831:ARG:HB3	2.46	0.42
38:JC:171:ARG:NH1	43:JK:469:GLN:H	2.17	0.42
38:JC:227:ARG:NH2	38:JC:249:ASN:HD21	2.17	0.42
39:JF:106:LYS:O	39:JF:106:LYS:HG2	2.19	0.42
39:JF:164:LYS:HE3	39:JF:164:LYS:HB3	1.88	0.42
39:JG:147:LYS:O	39:JG:148:LEU:HB2	2.19	0.42
47:JP:228:ASN:OD1	47:JP:228:ASN:N	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:JP:281:ASN:ND2	47:JP:283:ASP:OD1	2.52	0.42
49:DE:66:MET:O	49:DE:68:ARG:HG3	2.19	0.42
52:DH:33:GLU:O	52:DH:37:GLU:HG2	2.19	0.42
52:DH:113:PRO:HD2	52:DH:116:ARG:HB2	2.01	0.42
55:DL:111:VAL:HA	55:DL:139:VAL:HG22	2.02	0.42
58:DQ:23:LYS:HD2	65:D2:267:U:C5	2.54	0.42
61:DX:68:ILE:HG13	61:DX:69:ARG:N	2.33	0.42
63:Db:29:ARG:HH11	63:Db:29:ARG:HG3	1.85	0.42
65:D2:144:C:H2'	65:D2:145:A:H8	1.84	0.42
66:D3:425:A:H2'	66:D3:425:A:N3	2.35	0.42
66:D3:1169:G:H8	66:D3:1169:G:O5'	2.03	0.42
66:D3:1215:C:H2'	66:D3:1216:C:C6	2.55	0.42
66:D3:1478:G:N2	66:D3:1530:C:C2	2.87	0.42
66:D3:1663:G:H2'	66:D3:1664:C:O4'	2.20	0.42
66:D3:1694:A:H2'	66:D3:1695:G:C8	2.54	0.42
67:D4:52:U:H2'	67:D4:53:U:H6	1.83	0.42
67:D4:115:G:N2	67:D4:116:A:H1'	2.34	0.42
1:CA:225:ARG:O	1:CA:226:HIS:ND1	2.51	0.42
3:JA:563:LYS:H	3:JA:587:GLN:HE22	1.67	0.42
3:JA:727:TYR:HB2	3:JA:733:LEU:HD21	2.02	0.42
4:UA:314:GLY:O	4:UA:332:TRP:NE1	2.44	0.42
5:UB:433:ILE:O	5:UB:436:LEU:HG	2.19	0.42
5:UB:447:SER:HA	5:UB:450:ARG:HH21	1.84	0.42
5:UB:448:PHE:O	5:UB:452:GLN:HG2	2.20	0.42
7:UD:168:ILE:HD12	7:UD:179:HIS:HA	2.01	0.42
7:UD:372:MET:HA	7:UD:373:PRO:HD3	1.85	0.42
7:UD:441:VAL:HG11	7:UD:478:VAL:HG21	2.02	0.42
8:UE:537:LEU:HD22	18:UO:498:SER:HB2	2.02	0.42
10:UG:116:ILE:CD1	10:UG:398:ILE:HG23	2.49	0.42
10:UG:321:ASN:HB2	10:UG:333:SER:OG	2.19	0.42
10:UG:550:LEU:HD11	25:UV:806:PHE:CE1	2.55	0.42
11:UH:574:ARG:HB2	11:UH:578:LEU:HD12	2.01	0.42
13:UJ:564:VAL:O	13:UJ:568:ILE:HG12	2.20	0.42
13:UJ:677:SER:HA	13:UJ:678:PRO:HA	1.78	0.42
13:UJ:1434:SER:N	13:UJ:1437:ARG:HH21	2.17	0.42
13:UJ:1709:ARG:O	13:UJ:1712:LYS:HB2	2.19	0.42
14:UK:158:MET:SD	14:UK:165:ARG:HA	2.60	0.42
15:UL:14:PHE:HB3	15:UL:417:TRP:HZ3	1.84	0.42
15:UL:17:ILE:N	15:UL:360:ASN:OD1	2.52	0.42
15:UL:22:ASN:HD21	15:UL:85:LEU:N	2.16	0.42
15:UL:42:ILE:HG12	15:UL:51:ILE:CG2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:UL:197:ILE:O	16:UM:667:GLN:NE2	2.51	0.42
15:UL:391:ARG:CZ	15:UL:391:ARG:HB3	2.50	0.42
15:UL:437:LYS:HB2	15:UL:479:LEU:HD11	2.02	0.42
16:UM:30:LYS:HD2	16:UM:45:LEU:N	2.34	0.42
16:UM:89:HIS:HB3	16:UM:92:THR:OG1	2.20	0.42
16:UM:622:ALA:HB3	16:UM:635:ALA:HB3	2.01	0.42
16:UM:648:THR:HA	16:UM:651:GLU:CD	2.44	0.42
17:UN:861:LEU:HA	47:JP:403:ARG:NH2	2.35	0.42
18:UO:391:ASN:HD21	18:UO:399:GLU:HG3	1.85	0.42
20:UQ:86:GLU:HG2	20:UQ:113:ASN:OD1	2.20	0.42
20:UQ:724:ILE:HG21	20:UQ:762:TYR:CD2	2.53	0.42
20:UQ:749:ASP:OD1	20:UQ:750:LEU:N	2.53	0.42
21:UR:277:ILE:HA	21:UR:282:ASN:OD1	2.19	0.42
22:US:216:VAL:HG12	22:US:264:LEU:HD22	2.02	0.42
22:US:345:ILE:HA	22:US:349:LEU:HD13	2.01	0.42
22:US:486:GLN:HB3	22:US:487:PRO:HD2	2.02	0.42
23:UT:95:ILE:HG13	23:UT:135:LEU:HD12	2.01	0.42
23:UT:151:GLY:O	23:UT:155:LEU:HD23	2.20	0.42
23:UT:196:LEU:HG	23:UT:199:LEU:HD12	2.00	0.42
23:UT:422:LYS:HA	23:UT:422:LYS:HD2	1.78	0.42
23:UT:454:PRO:O	23:UT:458:ILE:HG12	2.20	0.42
23:UT:937:PRO:HD3	23:UT:946:LYS:NZ	2.34	0.42
23:UT:1307:ASP:O	23:UT:1310:SER:OG	2.36	0.42
23:UT:1557:GLU:O	23:UT:1561:ILE:HG12	2.19	0.42
24:UU:141:LYS:HE2	24:UU:154:TYR:CE1	2.55	0.42
24:UU:198:LEU:HD11	24:UU:200:PHE:O	2.19	0.42
24:UU:501:HIS:ND1	24:UU:521:GLY:HA3	2.34	0.42
25:UV:104:LYS:HA	25:UV:104:LYS:HD3	1.80	0.42
25:UV:361:GLU:HB2	25:UV:418:SER:OG	2.19	0.42
25:UV:713:LEU:HD21	25:UV:770:PRO:HD2	2.01	0.42
25:UV:1135:ASN:HB3	25:UV:1138:ASP:H	1.84	0.42
27:UZ:77:LYS:HB2	27:UZ:83:TYR:HE2	1.84	0.42
28:CD:185:ASP:OD2	28:CD:285:ARG:NH2	2.53	0.42
28:CD:382:LYS:O	28:CD:385:MET:HB3	2.19	0.42
31:CH:253:THR:HG22	31:CH:263:TRP:HE1	1.84	0.42
31:CH:359:PHE:HE2	31:CH:413:PHE:HE1	1.66	0.42
31:CH:439:ALA:O	31:CH:497:LYS:HE3	2.20	0.42
32:CI:28:ARG:NH1	65:D2:393:C:O5'	2.52	0.42
32:CI:78:LEU:CD2	32:CI:97:LEU:HD21	2.48	0.42
33:CJ:186:ASN:HD21	33:CJ:211:ASN:CG	2.27	0.42
35:CL:991:PHE:HB3	35:CL:992:GLU:H	1.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:1034:LEU:O	35:CL:1038:ILE:HG12	2.19	0.42
36:CM:143:LYS:HZ1	36:CM:252:LYS:HD2	1.85	0.42
37:CN:63:ASN:N	37:CN:66:HIS:HB2	2.34	0.42
38:JC:53:PHE:HA	38:JC:84:TYR:CE2	2.55	0.42
39:JG:193:ILE:HA	39:JG:196:LEU:HD12	2.02	0.42
42:JJ:97:ARG:O	42:JJ:139:LEU:HD23	2.19	0.42
45:JN:267:VAL:HG13	45:JN:268:LYS:O	2.19	0.42
46:JO:156:LEU:HD21	46:JO:183:VAL:HG22	2.00	0.42
47:JP:347:ARG:NH2	67:D4:31:G:C8	2.88	0.42
50:DF:84:LYS:HZ1	66:D3:1613:U:P	2.38	0.42
51:DG:214:LYS:HG3	51:DG:215:ARG:N	2.35	0.42
52:DH:39:ARG:O	52:DH:39:ARG:NE	2.50	0.42
54:DJ:87:SER:O	54:DJ:90:LYS:HG2	2.19	0.42
54:DJ:90:LYS:HB2	54:DJ:95:TYR:CG	2.55	0.42
55:DL:124:THR:HG21	55:DL:141:LYS:HE2	2.01	0.42
63:Db:69:GLY:HA2	66:D3:957:G:H1'	2.02	0.42
64:Dc:40:ILE:HG22	64:Dc:41:VAL:N	2.35	0.42
65:D2:158:G:C2	65:D2:159:A:C4	3.07	0.42
65:D2:382:U:O5'	65:D2:382:U:H6	2.02	0.42
66:D3:70:C:H2'	66:D3:71:A:H8	1.84	0.42
66:D3:109:G:N2	66:D3:305:C:C2	2.87	0.42
66:D3:645:C:N4	66:D3:690:G:O6	2.53	0.42
66:D3:872:G:H2'	66:D3:873:U:O4'	2.20	0.42
66:D3:1602:C:N4	66:D3:1603:U:O4	2.53	0.42
66:D3:1748:G:C2	66:D3:1749:A:C4	3.07	0.42
67:D4:4:G:O2'	67:D4:5:A:H5'	2.20	0.42
67:D4:14:A:C8	67:D4:15:U:C4	3.08	0.42
67:D4:202:G:C6	67:D4:248:G:C6	3.07	0.42
76:EI:339:ASN:O	76:EI:343:SER:N	2.50	0.42
79:EN:998:MET:O	79:EN:1002:TYR:N	2.52	0.42
1:CA:272:LYS:HD3	1:CA:313:HIS:NE2	2.34	0.42
2:DA:148:ASN:ND2	66:D3:1066:C:O2	2.52	0.42
3:JA:49:LEU:HA	3:JA:53:LYS:NZ	2.34	0.42
3:JA:72:LYS:NZ	66:D3:158:U:H5'	2.35	0.42
3:JA:140:GLU:HA	3:JA:475:ARG:HH12	1.85	0.42
3:JA:140:GLU:HA	3:JA:475:ARG:NH1	2.35	0.42
4:UA:104:PHE:CD2	4:UA:111:PHE:HB3	2.54	0.42
4:UA:146:PHE:N	4:UA:167:ASP:OD2	2.53	0.42
4:UA:166:LYS:C	4:UA:168:LEU:N	2.74	0.42
4:UA:412:ARG:HH21	4:UA:424:THR:HB	1.84	0.42
1:CB:256:ASN:O	1:CB:260:PHE:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:UB:525:MET:HB2	5:UB:546:LEU:HD11	2.01	0.42
6:UC:496:GLN:CD	6:UC:496:GLN:H	2.27	0.42
7:UD:167:LEU:HD11	7:UD:183:LEU:HD11	2.02	0.42
7:UD:300:VAL:O	7:UD:332:ASP:HB2	2.20	0.42
7:UD:336:ILE:HD12	7:UD:348:VAL:C	2.44	0.42
7:UD:635:GLY:HA3	7:UD:649:TRP:NE1	2.34	0.42
8:UE:25:ASP:CG	21:UR:590:LYS:HE2	2.45	0.42
8:UE:487:ARG:HD2	8:UE:487:ARG:HA	1.83	0.42
10:UG:116:ILE:HD11	10:UG:398:ILE:HG23	2.02	0.42
11:UH:541:LEU:HD12	11:UH:541:LEU:HA	1.77	0.42
12:UI:466:GLU:OE1	12:UI:466:GLU:N	2.28	0.42
13:UJ:1370:TYR:HA	13:UJ:1373:ILE:HG12	2.02	0.42
13:UJ:1405:ALA:O	13:UJ:1408:ILE:HG22	2.20	0.42
13:UJ:1705:LEU:HA	13:UJ:1708:ILE:HD12	2.00	0.42
14:UK:9:GLN:HG3	66:D3:572:C:H5'	2.02	0.42
15:UL:341:ALA:HA	15:UL:354:VAL:O	2.18	0.42
15:UL:482:THR:HG23	15:UL:485:GLY:H	1.85	0.42
16:UM:283:LYS:HB2	16:UM:283:LYS:HE2	1.86	0.42
16:UM:306:LEU:HB2	16:UM:310:THR:OG1	2.20	0.42
16:UM:504:SER:C	16:UM:520:LEU:HD13	2.44	0.42
18:UO:248:ARG:NE	18:UO:290:PHE:O	2.53	0.42
18:UO:323:SER:C	18:UO:325:GLY:H	2.27	0.42
18:UO:356:ASN:O	18:UO:360:MET:HB2	2.19	0.42
18:UO:503:ARG:HG2	18:UO:503:ARG:H	1.70	0.42
20:UQ:111:THR:HB	20:UQ:115:HIS:HB2	2.02	0.42
20:UQ:133:LYS:H	20:UQ:183:LYS:HE3	1.84	0.42
20:UQ:334:LEU:HA	20:UQ:335:PRO:HD3	1.79	0.42
22:US:341:LEU:HD13	22:US:362:MET:HE1	2.01	0.42
22:US:462:SER:HB2	22:US:464:TRP:CZ2	2.55	0.42
23:UT:567:PRO:HB3	23:UT:610:LEU:HA	2.02	0.42
23:UT:1355:ILE:HD12	23:UT:1364:ARG:HB3	2.02	0.42
23:UT:1993:PRO:HA	23:UT:1996:GLN:CD	2.45	0.42
24:UU:128:LEU:HB2	24:UU:150:PRO:HG2	2.00	0.42
24:UU:375:LEU:HD22	24:UU:389:MET:HE2	2.02	0.42
25:UV:214:PHE:CE2	25:UV:299:PRO:HD2	2.55	0.42
25:UV:684:PHE:CZ	25:UV:688:LYS:HD3	2.55	0.42
25:UV:698:ASN:H	25:UV:702:LYS:NZ	2.07	0.42
26:UX:51:LEU:HD12	26:UX:51:LEU:HA	1.82	0.42
26:UX:121:ARG:NH1	47:JP:369:ASP:OD1	2.52	0.42
28:CD:109:ILE:HD13	28:CD:109:ILE:HA	1.91	0.42
29:CE:18:SER:H	29:CE:42:PHE:HE2	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:CE:319:ILE:O	29:CE:319:ILE:HG13	2.20	0.42
30:CF:115:TYR:HD1	30:CF:118:LYS:HD3	1.81	0.42
30:CG:50:GLU:HG2	30:CG:104:THR:HA	2.00	0.42
34:CK:332:ALA:HA	34:CK:335:ARG:NH1	2.32	0.42
35:CL:58:MET:HE1	66:D3:434:G:N2	2.33	0.42
35:CL:101:ILE:H	35:CL:101:ILE:HD12	1.85	0.42
38:JC:227:ARG:NH1	38:JC:229:PHE:HA	2.34	0.42
39:JG:91:ILE:HG13	39:JG:92:THR:H	1.84	0.42
42:JJ:121:VAL:HG12	42:JJ:126:LEU:O	2.19	0.42
42:JJ:166:PHE:HB3	42:JJ:170:ASP:HB2	2.01	0.42
42:JJ:251:ILE:HG13	42:JJ:252:LEU:N	2.35	0.42
47:JP:91:VAL:HA	47:JP:106:PHE:O	2.20	0.42
47:JP:278:VAL:HG13	47:JP:313:PHE:CZ	2.52	0.42
49:DE:130:GLN:HG3	49:DE:131:LEU:N	2.34	0.42
50:DF:100:ASN:HD22	50:DF:103:ASN:ND2	2.18	0.42
51:DG:14:LYS:HG2	51:DG:15:THR:H	1.85	0.42
51:DG:85:ARG:HH12	51:DG:87:ARG:NH2	2.18	0.42
56:DN:25:TRP:HA	56:DN:27:LYS:NZ	2.34	0.42
65:D2:100:G:H1	65:D2:144:C:H42	1.68	0.42
66:D3:551:G:N1	66:D3:588:U:N3	2.67	0.42
66:D3:686:C:C2	66:D3:687:G:C8	3.08	0.42
66:D3:765:G:N2	66:D3:772:G:C2	2.87	0.42
66:D3:1654:G:N2	66:D3:1747:G:C2	2.88	0.42
67:D4:199:G:C2	67:D4:200:C:C2	3.07	0.42
1:CA:304:LEU:HD23	1:CA:304:LEU:C	2.45	0.42
2:DA:183:GLN:HG2	25:UV:754:LEU:HD11	2.02	0.42
2:DA:228:LEU:HD23	2:DA:228:LEU:HA	1.81	0.42
3:JA:10:ILE:HD12	3:JA:10:ILE:H	1.84	0.42
3:JA:391:ALA:HA	3:JA:754:LEU:HD12	2.01	0.42
3:JA:637:ARG:HD2	3:JA:638:ILE:N	2.34	0.42
4:UA:162:LEU:HB3	4:UA:172:ILE:HG22	2.00	0.42
4:UA:164:THR:HG21	4:UA:196:GLY:N	2.35	0.42
4:UA:285:ARG:NE	4:UA:297:GLN:OE1	2.53	0.42
4:UA:354:SER:O	4:UA:688:PRO:HG3	2.19	0.42
4:UA:610:VAL:HG22	4:UA:611:LEU:N	2.35	0.42
1:CB:271:ILE:HD13	1:CB:314:CYS:SG	2.59	0.42
7:UD:527:TYR:HA	7:UD:530:ARG:HG2	2.00	0.42
8:UE:318:GLN:O	8:UE:321:GLU:HG3	2.20	0.42
9:UF:118:LYS:HE2	9:UF:153:TYR:CD1	2.54	0.42
9:UF:197:ILE:CD1	9:UF:200:ARG:HE	2.32	0.42
13:UJ:54:LYS:HE3	13:UJ:54:LYS:HB2	1.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:560:ILE:HD13	13:UJ:592:ARG:NH1	2.35	0.42
13:UJ:1554:TRP:CZ2	13:UJ:1571:ARG:HD2	2.55	0.42
13:UJ:1644:PHE:CZ	13:UJ:1683:HIS:HB3	2.55	0.42
15:UL:300:GLU:O	15:UL:304:LYS:HE3	2.19	0.42
15:UL:472:HIS:HE2	15:UL:498:LYS:HB2	1.84	0.42
15:UL:923:GLU:HA	42:JJ:264:ARG:NH2	2.35	0.42
16:UM:353:LEU:O	16:UM:364:ILE:HA	2.20	0.42
16:UM:453:PHE:HE2	16:UM:455:LEU:HB2	1.85	0.42
16:UM:736:LEU:HD21	16:UM:767:HIS:CE1	2.55	0.42
16:UM:760:ILE:O	16:UM:763:ILE:HG22	2.20	0.42
17:UN:342:VAL:HA	17:UN:345:VAL:HG22	2.01	0.42
18:UO:47:PHE:CD1	18:UO:55:PHE:HB3	2.55	0.42
20:UQ:19:LYS:HZ1	20:UQ:366:ASN:HD21	1.67	0.42
20:UQ:107:ILE:HD11	20:UQ:119:LEU:HB2	2.00	0.42
20:UQ:110:PHE:CD1	20:UQ:116:VAL:HG22	2.55	0.42
20:UQ:118:VAL:C	20:UQ:119:LEU:HD12	2.44	0.42
20:UQ:890:ARG:O	20:UQ:894:VAL:HG23	2.19	0.42
21:UR:205:ILE:HG23	21:UR:206:ASN:OD1	2.20	0.42
21:UR:295:ILE:HD12	21:UR:314:THR:HG23	2.02	0.42
21:UR:383:TRP:HA	21:UR:398:CYS:O	2.20	0.42
22:US:270:SER:O	22:US:274:TYR:HB2	2.19	0.42
23:UT:414:LEU:O	23:UT:417:LEU:HG	2.20	0.42
23:UT:520:GLY:O	23:UT:524:LYS:HG2	2.19	0.42
23:UT:600:THR:O	23:UT:604:MET:HG2	2.20	0.42
23:UT:603:LEU:HG	23:UT:607:LEU:HD23	2.00	0.42
23:UT:654:THR:OG1	23:UT:659:SER:OG	2.35	0.42
23:UT:1199:LEU:HD22	23:UT:1239:ASP:OD1	2.20	0.42
23:UT:1423:TYR:O	23:UT:1427:ASN:HB2	2.19	0.42
23:UT:1777:LEU:HD21	23:UT:1789:LEU:HD22	2.01	0.42
24:UU:881:TYR:HA	24:UU:884:PHE:CD2	2.55	0.42
25:UV:592:PHE:HB3	25:UV:599:VAL:HG22	2.01	0.42
25:UV:656:ARG:HH11	25:UV:668:VAL:HG21	1.84	0.42
25:UV:1081:ASN:HD21	25:UV:1083:GLN:HE22	1.67	0.42
25:UV:1220:PHE:HA	25:UV:1223:ILE:HD12	2.02	0.42
29:CE:73:GLU:HA	29:CE:76:LEU:CG	2.48	0.42
31:CH:168:ASN:O	31:CH:172:PHE:HD1	2.02	0.42
32:CI:29:ASP:OD2	32:CI:41:ARG:NH1	2.52	0.42
34:CK:442:ALA:O	34:CK:445:VAL:HG12	2.20	0.42
35:CL:58:MET:HG3	35:CL:236:LYS:NZ	2.35	0.42
35:CL:282:SER:HB3	35:CL:782:GLY:HA2	2.00	0.42
35:CL:1086:MET:CE	65:D2:408:U:H1'	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:CM:295:PRO:HB3	36:CM:325:LEU:HD22	2.02	0.42
38:JC:89:LEU:HD12	51:DG:69:LEU:HD11	2.01	0.42
38:JC:232:THR:HG21	38:JC:275:LYS:NZ	2.34	0.42
42:JJ:127:GLN:O	42:JJ:140:ARG:HG2	2.19	0.42
50:DF:81:ARG:HG2	50:DF:82:PHE:CE1	2.54	0.42
56:DN:114:ARG:HA	56:DN:114:ARG:HD3	1.85	0.42
60:DW:55:ASP:O	60:DW:57:ARG:HD2	2.20	0.42
65:D2:9:G:H2'	65:D2:10:C:C6	2.55	0.42
65:D2:211:G:H2'	65:D2:212:U:C6	2.55	0.42
65:D2:243:A:C5	65:D2:271:G:N1	2.88	0.42
66:D3:75:U:H3'	66:D3:76:A:C5'	2.50	0.42
66:D3:107:C:H2'	66:D3:108:A:H8	1.84	0.42
66:D3:319:U:H5'	66:D3:320:U:H5"	2.01	0.42
66:D3:529:A:H2'	66:D3:530:C:H6	1.84	0.42
66:D3:645:C:H2'	66:D3:646:C:H6	1.85	0.42
66:D3:793:A:N6	66:D3:798:C:H5	2.18	0.42
66:D3:940:A:C4	66:D3:941:A:C8	3.08	0.42
66:D3:942:G:C2	66:D3:943:C:O2	2.73	0.42
66:D3:1151:A:H61	66:D3:1627:U:H3	1.67	0.42
66:D3:1158:C:N4	66:D3:1582:U:C5	2.85	0.42
66:D3:1462:G:H2'	66:D3:1463:C:C6	2.54	0.42
66:D3:1785:U:H2'	66:D3:1786:G:C8	2.55	0.42
67:D4:42:U:C4	67:D4:43:C:C4	3.07	0.42
67:D4:317:A:O2'	67:D4:318:U:H3'	2.20	0.42
78:EK:535:ARG:C	78:EK:537:LYS:N	2.78	0.42
2:DA:8:ARG:NH1	66:D3:907:A:H5"	2.35	0.42
3:JA:115:LEU:HD11	3:JA:137:ARG:HG2	2.02	0.42
3:JA:510:PRO:HA	3:JA:513:CYS:SG	2.59	0.42
3:JA:627:PHE:HA	3:JA:630:LEU:HD12	2.02	0.42
4:UA:81:LEU:HD22	4:UA:136:PHE:HE1	1.85	0.42
4:UA:363:ALA:HB1	4:UA:390:VAL:CG1	2.50	0.42
1:CB:102:LYS:HE2	14:UK:193:LYS:HB3	2.00	0.42
1:CB:179:THR:OG1	1:CB:180:SER:N	2.53	0.42
1:CB:227:PRO:HB2	1:CB:259:MET:SD	2.60	0.42
5:UB:739:LYS:HD3	5:UB:739:LYS:HA	1.78	0.42
5:UB:766:ARG:O	5:UB:769:GLU:HG2	2.20	0.42
6:UC:529:ALA:O	6:UC:532:VAL:HG13	2.20	0.42
7:UD:36:CYS:HA	11:UH:716:TYR:CD1	2.55	0.42
7:UD:36:CYS:HA	11:UH:716:TYR:HD1	1.84	0.42
7:UD:42:THR:HG23	7:UD:42:THR:O	2.20	0.42
7:UD:96:ASP:HB2	19:UP:193:LYS:HD3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:150:LYS:O	8:UE:165:VAL:HA	2.20	0.42
9:UF:110:TRP:CE3	9:UF:136:LEU:HD22	2.55	0.42
10:UG:126:LEU:HB2	10:UG:159:TYR:HE2	1.85	0.42
10:UG:394:HIS:ND1	10:UG:396:THR:HG22	2.34	0.42
12:UI:492:ILE:HD13	12:UI:492:ILE:HG21	1.84	0.42
13:UJ:127:ILE:HG22	13:UJ:131:ASN:HD21	1.85	0.42
13:UJ:576:ILE:H	13:UJ:576:ILE:HD12	1.85	0.42
13:UJ:1484:THR:HA	13:UJ:1487:ASN:OD1	2.20	0.42
15:UL:186:ILE:HD11	15:UL:202:ALA:HB2	2.02	0.42
15:UL:303:LEU:HB3	15:UL:313:ILE:HD12	2.02	0.42
15:UL:498:LYS:HG2	15:UL:527:THR:HG22	2.01	0.42
15:UL:681:ILE:O	15:UL:682:ARG:HD3	2.20	0.42
16:UM:30:LYS:HD2	16:UM:45:LEU:H	1.84	0.42
16:UM:259:TYR:CD1	16:UM:259:TYR:C	2.98	0.42
16:UM:408:LYS:HA	16:UM:436:ALA:HB1	2.02	0.42
18:UO:5:ARG:NH1	65:D2:87:C:OP2	2.53	0.42
18:UO:415:LEU:HD23	18:UO:415:LEU:HA	1.83	0.42
20:UQ:30:GLY:HA2	20:UQ:199:SER:O	2.19	0.42
20:UQ:282:ILE:HD11	20:UQ:312:LEU:CD1	2.50	0.42
20:UQ:305:PHE:HB3	20:UQ:309:GLY:HA2	2.01	0.42
20:UQ:632:ILE:C	20:UQ:633:LEU:HD12	2.45	0.42
20:UQ:862:LYS:HE2	20:UQ:863:LYS:HG2	2.02	0.42
22:US:423:SER:O	22:US:423:SER:OG	2.33	0.42
23:UT:54:TRP:CA	23:UT:57:ILE:HG22	2.44	0.42
23:UT:119:PRO:HG3	23:UT:165:PHE:HZ	1.85	0.42
23:UT:357:LYS:HG2	23:UT:728:LEU:HD13	2.02	0.42
23:UT:855:MET:HA	23:UT:924:TYR:CE1	2.55	0.42
23:UT:858:LEU:HD12	23:UT:866:GLN:HG2	2.00	0.42
23:UT:988:LYS:HD2	23:UT:990:THR:HG23	2.02	0.42
23:UT:1258:TRP:NE1	23:UT:1262:GLU:OE2	2.53	0.42
23:UT:1660:LYS:O	23:UT:1664:ILE:HG12	2.20	0.42
23:UT:1677:LEU:HA	23:UT:1680:THR:HG22	2.01	0.42
23:UT:1907:ASN:O	23:UT:1910:VAL:HG22	2.20	0.42
23:UT:1926:PHE:CE2	23:UT:1929:GLU:HB2	2.55	0.42
23:UT:1957:GLN:HG2	23:UT:1998:LEU:HB2	2.02	0.42
24:UU:247:PRO:HB2	24:UU:248:GLN:OE1	2.20	0.42
24:UU:905:ILE:HG13	24:UU:906:ALA:N	2.35	0.42
25:UV:369:TRP:CE3	25:UV:370:LEU:HD22	2.54	0.42
25:UV:480:MET:N	25:UV:480:MET:SD	2.93	0.42
25:UV:796:ILE:HG21	37:CN:100:LEU:CD1	2.49	0.42
25:UV:971:LYS:HA	25:UV:1028:ARG:NH2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:UX:115:ILE:HG23	26:UX:116:ALA:N	2.35	0.42
26:UX:145:VAL:HG11	26:UX:170:ILE:HG21	2.02	0.42
28:CD:75:SER:OG	28:CD:76:GLU:N	2.53	0.42
28:CD:79:LYS:HB2	28:CD:79:LYS:HE2	1.80	0.42
29:CE:212:MET:CE	29:CE:218:ALA:HB2	2.50	0.42
29:CE:280:MET:HG3	29:CE:288:THR:OG1	2.20	0.42
30:CF:67:LEU:HB2	30:CF:68:PRO:HD3	2.02	0.42
30:CG:34:LYS:HE2	30:CG:103:THR:HG21	2.02	0.42
31:CH:240:LEU:HA	31:CH:240:LEU:HD23	1.81	0.42
32:CI:63:LEU:HA	32:CI:63:LEU:HD23	1.83	0.42
33:CJ:53:GLN:CD	45:JN:215:LEU:HD21	2.45	0.42
35:CL:864:ASP:O	35:CL:865:SER:OG	2.30	0.42
35:CL:992:GLU:HG3	66:D3:565:C:H5	1.85	0.42
36:CM:215:VAL:HG21	36:CM:273:GLU:HA	2.02	0.42
37:CN:78:TYR:CG	37:CN:143:LYS:HE3	2.55	0.42
38:JC:60:ASN:ND2	38:JC:101:ASN:O	2.52	0.42
38:JC:144:LEU:HD12	38:JC:154:TYR:O	2.20	0.42
38:JC:223:ASN:ND2	38:JC:227:ARG:O	2.52	0.42
39:JF:193:ILE:HD13	39:JF:245:ALA:HA	2.02	0.42
39:JG:136:ARG:O	39:JG:140:LEU:HD23	2.20	0.42
44:JM:175:GLU:O	44:JM:178:MET:HB2	2.20	0.42
46:JO:52:TYR:CE2	46:JO:56:ILE:HD13	2.54	0.42
46:JO:186:VAL:HG22	46:JO:199:HIS:CG	2.55	0.42
47:JP:289:TYR:CE1	47:JP:297:SER:HB3	2.54	0.42
49:DE:127:LYS:HE3	49:DE:127:LYS:HB2	1.88	0.42
50:DF:186:ASN:OD1	50:DF:188:LYS:N	2.53	0.42
56:DN:48:SER:O	56:DN:52:VAL:HG23	2.19	0.42
57:DO:81:VAL:CG2	57:DO:115:ILE:HG22	2.50	0.42
64:Dc:41:VAL:O	64:Dc:42:ARG:HD2	2.20	0.42
65:D2:68:U:H5	65:D2:70:A:H2'	1.83	0.42
65:D2:117:G:C6	65:D2:130:G:C5	3.08	0.42
65:D2:125:G:H2'	65:D2:126:A:C8	2.55	0.42
65:D2:169:A:C8	65:D2:171:G:C8	3.08	0.42
66:D3:103:A:H2'	66:D3:309:C:H41	1.84	0.42
66:D3:477:A:H2'	66:D3:478:A:C8	2.55	0.42
66:D3:1694:A:O2'	66:D3:1695:G:H5'	2.20	0.42
66:D3:1711:C:H2'	66:D3:1712:A:H5"	2.02	0.42
3:JA:63:LEU:HD13	3:JA:66:PHE:CE2	2.54	0.42
3:JA:133:ASN:OD1	3:JA:551:ASN:HB2	2.20	0.42
3:JA:747:LEU:HD11	3:JA:758:HIS:HB2	2.01	0.42
3:JA:783:LYS:O	3:JA:786:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:684:VAL:HG12	4:UA:695:ALA:CB	2.50	0.42
1:CB:103:GLU:HA	14:UK:194:LYS:HE3	2.01	0.42
1:CB:248:ASP:OD1	1:CB:248:ASP:N	2.51	0.42
7:UD:141:SER:OG	7:UD:162:ASN:OD1	2.36	0.42
7:UD:163:GLY:HA2	7:UD:188:ALA:O	2.19	0.42
7:UD:519:THR:N	7:UD:522:SER:HB2	2.35	0.42
7:UD:564:ALA:HA	13:UJ:636:ASP:OD2	2.20	0.42
8:UE:519:LEU:HA	8:UE:519:LEU:HD23	1.87	0.42
8:UE:531:LYS:O	8:UE:534:SER:OG	2.29	0.42
9:UF:276:VAL:HG11	17:UN:338:LEU:HD11	2.01	0.42
10:UG:378:VAL:O	10:UG:378:VAL:HG13	2.18	0.42
10:UG:496:GLY:O	10:UG:499:SER:OG	2.31	0.42
11:UH:674:GLU:O	11:UH:678:LEU:HD23	2.19	0.42
12:UI:493:LEU:HD23	12:UI:493:LEU:C	2.45	0.42
13:UJ:732:PHE:HB3	13:UJ:735:ASP:HB2	2.02	0.42
14:UK:247:GLN:NE2	21:UR:515:THR:HB	2.33	0.42
15:UL:208:TRP:CZ3	15:UL:222:THR:HG22	2.55	0.42
15:UL:211:ALA:HB2	15:UL:259:ILE:HG22	2.02	0.42
15:UL:269:THR:HB	15:UL:288:LYS:NZ	2.35	0.42
15:UL:365:TYR:OH	15:UL:381:LYS:HD3	2.19	0.42
15:UL:390:GLN:HG2	15:UL:394:VAL:CG2	2.50	0.42
15:UL:801:PRO:O	15:UL:804:TYR:HB3	2.19	0.42
15:UL:824:MET:HA	15:UL:825:PRO:HD3	1.91	0.42
16:UM:24:THR:OG1	16:UM:69:LEU:HD23	2.20	0.42
16:UM:54:HIS:CE1	16:UM:56:ILE:HD11	2.55	0.42
16:UM:293:VAL:HG13	16:UM:293:VAL:O	2.20	0.42
16:UM:436:ALA:HB3	16:UM:459:ASN:HB2	2.02	0.42
16:UM:758:ARG:HA	16:UM:758:ARG:HD2	1.86	0.42
20:UQ:182:LYS:HD3	20:UQ:182:LYS:HA	1.76	0.42
20:UQ:553:ILE:O	20:UQ:555:VAL:HG23	2.20	0.42
20:UQ:631:GLN:NE2	20:UQ:652:GLU:OE2	2.52	0.42
21:UR:365:ASN:HB2	21:UR:368:THR:HG23	2.02	0.42
22:US:185:TYR:CD1	22:US:192:GLN:HG2	2.54	0.42
22:US:324:PHE:HB2	22:US:365:PHE:HZ	1.85	0.42
23:UT:139:ALA:HA	23:UT:142:PHE:HB2	2.02	0.42
23:UT:457:PHE:CZ	23:UT:485:ILE:HD13	2.55	0.42
23:UT:704:ILE:HD13	23:UT:704:ILE:HA	1.88	0.42
23:UT:707:PRO:HG3	23:UT:711:GLN:NE2	2.35	0.42
23:UT:971:ARG:HH11	23:UT:972:LEU:HD21	1.85	0.42
23:UT:1243:ILE:HD13	23:UT:1246:ILE:HD12	2.02	0.42
23:UT:1667:ALA:O	23:UT:1670:LEU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:1983:LEU:HA	23:UT:1986:VAL:HG22	2.00	0.42
24:UU:87:PHE:CD1	65:D2:308:A:C6	3.07	0.42
24:UU:277:ASP:OD2	24:UU:280:ARG:HD2	2.20	0.42
24:UU:856:GLU:O	24:UU:858:PHE:CD1	2.73	0.42
25:UV:351:LYS:HA	25:UV:354:LYS:NZ	2.35	0.42
25:UV:439:HIS:NE2	25:UV:458:ILE:HB	2.34	0.42
25:UV:585:MET:HE3	25:UV:610:PHE:CD2	2.55	0.42
25:UV:1136:LEU:HD12	25:UV:1137:ASN:N	2.35	0.42
29:CE:122:GLU:O	29:CE:125:PRO:HD2	2.20	0.42
29:CE:206:ALA:HA	29:CE:209:ILE:HD12	2.01	0.42
29:CE:222:ASP:OD1	29:CE:224:SER:OG	2.38	0.42
31:CH:224:SER:HB3	31:CH:229:GLU:OE2	2.19	0.42
32:CI:33:MET:HG2	32:CI:38:ILE:HG13	2.01	0.42
33:CJ:155:SER:HB2	33:CJ:266:LEU:HD23	2.01	0.42
35:CL:58:MET:SD	35:CL:58:MET:N	2.93	0.42
38:JC:205:GLU:HG2	38:JC:214:ARG:NH1	2.35	0.42
38:JC:206:PHE:HE1	38:JC:218:LEU:HD21	1.84	0.42
39:JF:51:GLU:C	39:JF:68:LEU:HD23	2.45	0.42
42:JJ:117:TYR:CD2	42:JJ:118:PRO:HD3	2.55	0.42
46:JO:43:THR:C	46:JO:44:LEU:HD12	2.45	0.42
46:JO:179:GLY:O	46:JO:183:VAL:HG23	2.20	0.42
47:JP:32:LEU:O	47:JP:34:PRO:HD3	2.19	0.42
49:DE:87:MET:HA	49:DE:101:LEU:O	2.20	0.42
50:DF:121:ILE:HD11	50:DF:195:ALA:HA	2.02	0.42
56:DN:119:GLU:O	56:DN:122:ILE:HG22	2.20	0.42
64:Dc:57:MET:HE2	64:Dc:57:MET:HA	2.02	0.42
65:D2:105:G:C2	65:D2:140:U:C2	3.07	0.42
66:D3:81:G:H2'	66:D3:82:U:O4'	2.20	0.42
66:D3:90:C:H2'	66:D3:91:G:C8	2.55	0.42
66:D3:332:U:H2'	66:D3:333:A:H3'	2.02	0.42
66:D3:384:G:H2'	66:D3:385:A:C8	2.55	0.42
66:D3:557:G:C6	66:D3:558:U:C4	3.08	0.42
66:D3:682:C:H2'	66:D3:683:C:C6	2.55	0.42
66:D3:953:G:H2'	66:D3:954:G:C8	2.48	0.42
66:D3:1621:U:N3	66:D3:1622:G:C5	2.88	0.42
66:D3:1731:A:H2'	66:D3:1732:A:O4'	2.19	0.42
67:D4:19:A:N1	67:D4:20:U:C4	2.88	0.42
67:D4:100:U:H2'	67:D4:101:G:H8	1.84	0.42
78:EK:81:ALA:CB	78:EK:82:PRO:HA	2.45	0.42
79:EN:957:PRO:HA	79:EN:960:ALA:HB3	2.02	0.42
3:JA:219:LEU:O	3:JA:221:PRO:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:JB:28:ILE:HA	3:JB:201:VAL:O	2.20	0.41
5:UB:498:LEU:HD11	5:UB:545:VAL:CG1	2.46	0.41
5:UB:592:ARG:HD2	22:US:348:ASP:OD2	2.20	0.41
7:UD:213:TRP:CD1	7:UD:225:LEU:HB3	2.55	0.41
7:UD:298:ALA:HA	7:UD:304:ILE:HD13	2.02	0.41
8:UE:85:ILE:HB	8:UE:99:PHE:HB2	2.01	0.41
8:UE:477:ALA:O	8:UE:480:LEU:HB3	2.20	0.41
10:UG:130:ARG:HG3	10:UG:130:ARG:O	2.21	0.41
10:UG:140:ARG:HE	13:UJ:20:LEU:CG	2.33	0.41
10:UG:358:MET:H	10:UG:364:ARG:HD3	1.84	0.41
10:UG:414:LEU:HD12	47:JP:26:ARG:NH2	2.35	0.41
10:UG:451:SER:OG	10:UG:452:VAL:N	2.50	0.41
12:UI:452:LEU:HB3	12:UI:453:PRO:HD3	2.02	0.41
12:UI:461:THR:HG23	12:UI:462:LEU:HD12	2.01	0.41
13:UJ:92:LYS:HG3	13:UJ:92:LYS:H	1.72	0.41
13:UJ:1475:SER:O	13:UJ:1478:LEU:HG	2.20	0.41
14:UK:118:LEU:HD11	14:UK:201:VAL:HG13	2.01	0.41
15:UL:59:LEU:HD21	15:UL:62:LYS:HB3	2.00	0.41
15:UL:337:LYS:O	15:UL:357:THR:HB	2.20	0.41
15:UL:763:ILE:HD13	15:UL:838:THR:HG21	2.02	0.41
15:UL:857:LEU:HD21	16:UM:806:LEU:HD11	2.01	0.41
16:UM:33:ALA:HA	16:UM:41:ASN:O	2.20	0.41
18:UO:52:PRO:HG2	18:UO:311:THR:O	2.19	0.41
18:UO:97:CYS:HB2	18:UO:107:VAL:HG22	2.00	0.41
20:UQ:210:HIS:NE2	20:UQ:226:SER:OG	2.53	0.41
20:UQ:214:ASP:OD1	20:UQ:214:ASP:N	2.53	0.41
20:UQ:323:LEU:O	20:UQ:331:GLN:HA	2.19	0.41
20:UQ:474:THR:HG21	20:UQ:493:PRO:HB2	2.02	0.41
20:UQ:742:ARG:O	20:UQ:743:ILE:HD13	2.20	0.41
21:UR:229:PRO:HA	21:UR:230:PRO:HD3	1.85	0.41
23:UT:60:SER:O	23:UT:64:THR:OG1	2.24	0.41
23:UT:402:ARG:HD2	23:UT:402:ARG:C	2.45	0.41
23:UT:498:ILE:O	23:UT:501:LEU:HB2	2.19	0.41
23:UT:1241:GLN:HB3	23:UT:1245:LYS:HZ3	1.83	0.41
23:UT:1364:ARG:NH2	23:UT:1413:VAL:HB	2.35	0.41
23:UT:1463:GLN:HA	23:UT:1466:ILE:HD12	2.01	0.41
23:UT:1818:LEU:HD23	23:UT:1872:ALA:HB2	2.01	0.41
23:UT:1967:ILE:HG22	23:UT:2009:LYS:HE3	2.01	0.41
25:UV:222:PHE:CD2	25:UV:225:LEU:HD21	2.55	0.41
25:UV:888:LYS:HG2	25:UV:889:TYR:CD1	2.54	0.41
25:UV:923:HIS:NE2	25:UV:1088:LEU:O	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:1024:PHE:HB2	25:UV:1040:PHE:CE2	2.55	0.41
25:UV:1197:ARG:HD2	25:UV:1200:LEU:HD13	2.02	0.41
27:UZ:23:GLN:HA	27:UZ:26:GLU:HG3	2.01	0.41
27:UZ:67:PRO:CB	27:UZ:96:LEU:HD11	2.50	0.41
28:CD:249:GLN:OE1	28:CD:249:GLN:N	2.43	0.41
29:CE:267:ALA:HA	29:CE:270:GLU:CD	2.45	0.41
34:CK:531:ALA:HA	34:CK:534:ARG:HG2	2.02	0.41
35:CL:67:PRO:HA	35:CL:68:PRO:HD3	1.94	0.41
35:CL:89:LEU:HD22	35:CL:117:PHE:HE2	1.84	0.41
35:CL:300:GLN:HB2	35:CL:792:VAL:CG1	2.50	0.41
35:CL:312:PHE:HA	35:CL:315:GLN:CD	2.45	0.41
38:JC:58:ALA:HB3	38:JC:76:THR:OG1	2.19	0.41
38:JC:116:HIS:CE1	38:JC:126:GLN:NE2	2.86	0.41
38:JC:163:TYR:HE1	43:JK:464:LEU:HD22	1.84	0.41
38:JC:185:HIS:CE1	38:JC:234:THR:H	2.38	0.41
38:JC:245:CYS:SG	38:JC:253:TYR:HB2	2.59	0.41
38:JC:356:LEU:HA	38:JC:359:ILE:CG1	2.50	0.41
39:JF:41:MET:HB3	39:JF:110:LEU:HB3	2.02	0.41
39:JF:67:LEU:CD2	39:JF:142:VAL:HB	2.50	0.41
44:JM:62:LEU:HD23	44:JM:63:PRO:O	2.20	0.41
46:JO:103:LEU:HA	46:JO:103:LEU:HD23	1.75	0.41
46:JO:186:VAL:HG22	46:JO:199:HIS:ND1	2.35	0.41
47:JP:48:THR:O	47:JP:51:GLU:HG2	2.19	0.41
47:JP:92:ILE:HD11	47:JP:148:TRP:CE3	2.55	0.41
49:DE:195:ILE:O	49:DE:195:ILE:HG13	2.19	0.41
50:DF:145:ASP:OD2	64:Dc:45:LYS:NZ	2.26	0.41
51:DG:173:PRO:HA	66:D3:66:U:P	2.60	0.41
51:DG:180:THR:OG1	51:DG:183:ARG:HG3	2.19	0.41
52:DH:23:ALA:O	52:DH:27:LEU:HG	2.20	0.41
52:DH:27:LEU:HD11	52:DH:81:LEU:HD21	2.01	0.41
54:DJ:85:VAL:HG23	54:DJ:86:LEU:HB2	2.02	0.41
54:DJ:86:LEU:HG	54:DJ:90:LYS:HG3	2.02	0.41
56:DN:32:SER:HA	56:DN:35:GLU:OE1	2.19	0.41
57:DO:81:VAL:HG23	57:DO:115:ILE:HA	2.01	0.41
62:DY:124:ARG:NH2	66:D3:151:G:O6	2.53	0.41
66:D3:23:G:OP2	66:D3:23:G:H8	2.03	0.41
66:D3:636:A:C6	66:D3:637:C:C4	3.08	0.41
66:D3:1686:C:H2'	66:D3:1687:U:C6	2.55	0.41
67:D4:199:G:C6	67:D4:200:C:C4	3.07	0.41
67:D4:318:U:H4'	67:D4:319:G:C5'	2.51	0.41
78:EK:368:LYS:O	78:EK:372:LEU:CB	2.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:EK:663:ASP:O	78:EK:664:LYS:CB	2.66	0.41
79:EN:790:VAL:O	79:EN:794:LEU:N	2.43	0.41
1:CA:250:ALA:HB2	1:CA:289:GLU:OE1	2.20	0.41
3:JA:45:MET:HG2	3:JA:53:LYS:NZ	2.35	0.41
3:JA:131:THR:O	3:JA:135:LEU:HG	2.20	0.41
3:JA:877:LEU:HB2	3:JA:881:GLN:OE1	2.20	0.41
4:UA:165:SER:C	4:UA:167:ASP:H	2.28	0.41
4:UA:311:ASN:ND2	4:UA:316:TRP:HB2	2.35	0.41
4:UA:436:LEU:HD12	4:UA:436:LEU:C	2.46	0.41
4:UA:514:VAL:HG12	4:UA:515:TYR:N	2.35	0.41
1:CB:228:GLN:C	1:CB:231:ARG:H	2.28	0.41
5:UB:477:TYR:OH	5:UB:497:ASP:OD1	2.33	0.41
5:UB:737:ILE:O	5:UB:740:MET:HG3	2.20	0.41
7:UD:159:GLY:HA3	7:UD:193:LEU:HD11	2.01	0.41
7:UD:427:ASN:HB2	7:UD:444:ARG:HE	1.85	0.41
7:UD:576:ASN:HB3	7:UD:578:SER:O	2.20	0.41
8:UE:91:LEU:HG	20:UQ:822:PHE:HE2	1.85	0.41
8:UE:305:TRP:O	8:UE:306:LEU:HD23	2.21	0.41
9:UF:81:ASN:N	9:UF:81:ASN:OD1	2.53	0.41
9:UF:173:ARG:HH12	28:CD:83:ASP:HB3	1.84	0.41
9:UF:204:GLY:HA2	9:UF:207:ASN:OD1	2.21	0.41
9:UF:278:MET:HE2	9:UF:316:SER:HB3	2.01	0.41
10:UG:125:LEU:HA	10:UG:125:LEU:HD12	1.85	0.41
13:UJ:49:PHE:CD2	13:UJ:79:ILE:HD11	2.55	0.41
13:UJ:561:PHE:O	13:UJ:564:VAL:HG22	2.20	0.41
13:UJ:684:TYR:CE2	13:UJ:723:LEU:HA	2.56	0.41
13:UJ:800:ASP:OD1	13:UJ:801:ILE:HD12	2.20	0.41
13:UJ:1522:SER:OG	67:D4:141:U:H4'	2.20	0.41
13:UJ:1590:ILE:HA	13:UJ:1593:TYR:HD2	1.85	0.41
13:UJ:1652:VAL:HA	13:UJ:1655:LEU:HD12	2.02	0.41
13:UJ:1692:VAL:O	13:UJ:1695:MET:C	2.63	0.41
13:UJ:1712:LYS:NZ	13:UJ:1752:LEU:HD22	2.35	0.41
14:UK:22:ARG:HH12	35:CL:937:PHE:CB	2.32	0.41
14:UK:62:GLU:HA	32:CI:119:LYS:O	2.20	0.41
15:UL:46:LEU:HD12	15:UL:657:GLN:HE22	1.85	0.41
15:UL:137:ILE:HG22	15:UL:169:PHE:HZ	1.85	0.41
15:UL:574:LEU:HD23	15:UL:574:LEU:HA	1.87	0.41
15:UL:606:ASP:OD1	15:UL:606:ASP:N	2.51	0.41
15:UL:888:ARG:HH21	16:UM:807:ASP:CG	2.22	0.41
16:UM:212:LEU:HD23	16:UM:213:SER:N	2.35	0.41
16:UM:433:HIS:CE1	16:UM:437:VAL:HG12	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:UM:513:LYS:NZ	16:UM:535:GLY:N	2.68	0.41
16:UM:655:GLU:HA	16:UM:658:LYS:NZ	2.35	0.41
17:UN:861:LEU:O	17:UN:863:MET:N	2.54	0.41
20:UQ:229:SER:HB2	20:UQ:235:VAL:HG12	2.01	0.41
20:UQ:252:LEU:HD11	65:D2:81:A:H8	1.84	0.41
20:UQ:290:ILE:HD12	20:UQ:292:LEU:HD21	2.01	0.41
20:UQ:507:MET:HE3	20:UQ:541:TRP:CE2	2.55	0.41
20:UQ:869:MET:HE3	20:UQ:869:MET:HB3	1.91	0.41
21:UR:242:ASN:HD22	21:UR:585:LYS:HA	1.85	0.41
21:UR:271:THR:HG22	21:UR:289:HIS:HB2	2.01	0.41
21:UR:345:LEU:HD23	21:UR:345:LEU:HA	1.89	0.41
21:UR:366:SER:N	21:UR:368:THR:O	2.53	0.41
21:UR:374:ILE:HD13	21:UR:374:ILE:HG21	1.77	0.41
21:UR:477:LYS:HA	21:UR:477:LYS:HD3	1.94	0.41
22:US:185:TYR:CE1	22:US:192:GLN:HG2	2.55	0.41
22:US:356:ALA:C	22:US:357:ARG:HE	2.29	0.41
23:UT:464:PHE:O	23:UT:468:ALA:HB2	2.20	0.41
23:UT:510:SER:HA	23:UT:511:PRO:HD3	1.94	0.41
23:UT:634:ASN:O	23:UT:638:LEU:HD23	2.20	0.41
23:UT:863:THR:HG22	23:UT:867:LYS:HZ3	1.85	0.41
23:UT:873:LEU:O	23:UT:876:TYR:HB2	2.20	0.41
23:UT:1236:GLN:O	23:UT:1240:THR:HG23	2.20	0.41
23:UT:1436:ASP:O	23:UT:1476:LEU:HD22	2.20	0.41
23:UT:1488:MET:SD	23:UT:1489:ILE:HG13	2.59	0.41
23:UT:1728:PHE:HE1	60:DW:119:LYS:HD2	1.85	0.41
23:UT:1975:LYS:O	23:UT:1979:LEU:HG	2.20	0.41
24:UU:51:VAL:HG21	24:UU:90:VAL:HG11	2.02	0.41
24:UU:416:ALA:HB3	24:UU:433:ALA:HB3	2.03	0.41
24:UU:860:GLU:HA	24:UU:863:TRP:CE3	2.54	0.41
25:UV:331:LEU:HD23	25:UV:331:LEU:H	1.85	0.41
25:UV:562:LEU:O	25:UV:566:ILE:HG12	2.20	0.41
25:UV:749:SER:OG	25:UV:787:GLU:OE2	2.34	0.41
25:UV:808:LEU:O	25:UV:812:GLU:OE1	2.38	0.41
28:CD:17:VAL:O	28:CD:51:VAL:HG12	2.20	0.41
30:CF:54:MET:HE1	30:CF:68:PRO:HD3	2.02	0.41
30:CG:52:ILE:O	30:CG:78:TYR:HA	2.20	0.41
31:CH:504:ASN:HB2	31:CH:506:ARG:NH2	2.35	0.41
32:CI:7:HIS:ND1	67:D4:34:A:C6	2.88	0.41
35:CL:140:LEU:O	35:CL:169:GLY:HA2	2.20	0.41
35:CL:607:ASP:OD2	35:CL:609:GLU:HG2	2.20	0.41
35:CL:777:ARG:HD3	35:CL:781:GLU:CD	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:778:GLN:CB	35:CL:779:ARG:HD3	2.50	0.41
35:CL:993:ASP:OD1	66:D3:565:C:N4	2.53	0.41
38:JC:200:GLU:HG2	38:JC:230:GLN:HG3	2.01	0.41
39:JF:55:ILE:O	39:JF:63:ASP:CA	2.60	0.41
39:JF:205:PHE:HE2	39:JF:221:VAL:HA	1.84	0.41
47:JP:416:HIS:CE1	66:D3:5:U:N3	2.88	0.41
49:DE:65:LEU:HD13	49:DE:79:ASP:O	2.20	0.41
49:DE:102:VAL:HG21	49:DE:239:PRO:HG3	2.01	0.41
49:DE:125:LYS:O	49:DE:141:THR:HA	2.19	0.41
49:DE:179:LYS:O	49:DE:194:THR:HA	2.19	0.41
50:DF:56:ALA:O	50:DF:57:SER:HB2	2.19	0.41
50:DF:160:VAL:HG22	50:DF:161:ASP:N	2.34	0.41
50:DF:175:LEU:HD23	50:DF:175:LEU:HA	1.75	0.41
51:DG:85:ARG:HH12	51:DG:87:ARG:CZ	2.33	0.41
53:DI:8:ARG:HD2	53:DI:21:PHE:CD1	2.55	0.41
56:DN:4:MET:HE3	66:D3:966:A:O3’	2.19	0.41
65:D2:352:U:C4	65:D2:353:A:C5	3.08	0.41
65:D2:412:A:C6	65:D2:413:C:C4	3.08	0.41
65:D2:479:G:N2	67:D4:40:A:C4	2.88	0.41
66:D3:252:U:H2’	66:D3:253:A:C8	2.54	0.41
66:D3:270:C:C4	66:D3:271:A:N7	2.88	0.41
66:D3:876:G:C5	66:D3:936:G:C2	3.08	0.41
66:D3:1124:A:H1’	67:D4:1:G:C2	2.54	0.41
66:D3:1152:A:H2’	66:D3:1153:G:H8	1.85	0.41
66:D3:1586:A:C4	66:D3:1611:A:C6	3.08	0.41
66:D3:1603:U:C6	66:D3:1604:U:H5	2.37	0.41
67:D4:60:A:H4’	67:D4:61:G:O5’	2.19	0.41
2:DA:46:THR:HG22	2:DA:47:LEU:N	2.35	0.41
3:JA:36:GLN:O	3:JA:40:LEU:HG	2.21	0.41
3:JA:167:ASP:OD1	3:JA:169:HIS:ND1	2.46	0.41
3:JA:614:ILE:HG13	3:JA:761:VAL:HG21	2.02	0.41
4:UA:613:LYS:HG3	4:UA:614:ARG:H	1.85	0.41
1:CB:243:ASP:HA	1:CB:270:SER:OG	2.20	0.41
1:CB:291:GLN:HA	1:CB:294:ARG:HB3	2.01	0.41
3:JB:348:PRO:C	3:JB:350:PHE:H	2.28	0.41
7:UD:62:PRO:HB2	7:UD:64:ASP:OD1	2.20	0.41
7:UD:385:ASN:ND2	7:UD:387:GLU:HB2	2.33	0.41
7:UD:516:VAL:HG22	7:UD:517:THR:O	2.21	0.41
8:UE:140:PHE:HE1	8:UE:178:LYS:HG2	1.85	0.41
8:UE:148:LEU:HD23	8:UE:150:LYS:H	1.85	0.41
8:UE:213:ASN:HB3	8:UE:215:TYR:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:UF:191:ASN:C	9:UF:191:ASN:HD22	2.27	0.41
10:UG:240:GLN:HB3	10:UG:247:MET:CE	2.47	0.41
13:UJ:22:ARG:NH1	47:JP:20:GLN:O	2.37	0.41
13:UJ:89:GLU:OE1	13:UJ:92:LYS:NZ	2.25	0.41
13:UJ:127:ILE:HB	13:UJ:131:ASN:OD1	2.20	0.41
13:UJ:672:ASP:OD1	13:UJ:673:ASN:N	2.53	0.41
13:UJ:765:ASN:O	13:UJ:769:LEU:HG	2.20	0.41
13:UJ:1450:LEU:O	13:UJ:1454:LEU:HG	2.19	0.41
13:UJ:1550:ILE:HD12	13:UJ:1553:ARG:HB2	2.02	0.41
13:UJ:1626:LEU:HD12	13:UJ:1627:THR:N	2.36	0.41
13:UJ:1715:TYR:OH	13:UJ:1726:LEU:HD23	2.19	0.41
14:UK:45:GLN:O	14:UK:48:LEU:N	2.53	0.41
15:UL:532:ASP:OD1	15:UL:533:ASP:N	2.42	0.41
15:UL:614:HIS:HB3	15:UL:634:SER:CB	2.50	0.41
16:UM:44:ASP:C	16:UM:45:LEU:HD12	2.46	0.41
16:UM:463:ILE:HG12	16:UM:487:ARG:H	1.85	0.41
16:UM:517:ILE:HG23	16:UM:526:GLU:HB2	2.01	0.41
16:UM:560:TRP:CD1	16:UM:567:VAL:HA	2.55	0.41
17:UN:849:PHE:CZ	66:D3:-4:A:C4	3.07	0.41
20:UQ:89:VAL:N	20:UQ:110:PHE:O	2.21	0.41
20:UQ:168:LEU:HD12	20:UQ:195:ASN:HB2	2.02	0.41
20:UQ:408:THR:OG1	20:UQ:409:LYS:N	2.52	0.41
20:UQ:462:PHE:HE2	20:UQ:463:TYR:CZ	2.38	0.41
20:UQ:507:MET:CG	20:UQ:532:TRP:HB2	2.49	0.41
20:UQ:707:MET:HE2	20:UQ:710:LEU:HD12	2.02	0.41
21:UR:233:LEU:H	21:UR:554:ASN:HD21	1.68	0.41
21:UR:474:SER:O	21:UR:477:LYS:NZ	2.53	0.41
23:UT:1194:SER:HB3	23:UT:1198:PHE:CE2	2.55	0.41
23:UT:1217:ARG:O	23:UT:1221:ILE:HG23	2.20	0.41
24:UU:836:THR:HA	24:UU:839:ASN:OD1	2.20	0.41
24:UU:860:GLU:HG2	24:UU:861:ILE:N	2.35	0.41
25:UV:598:LYS:HE3	25:UV:600:TYR:CD1	2.55	0.41
25:UV:1169:ILE:HG12	25:UV:1177:GLY:O	2.20	0.41
27:UZ:55:ARG:HH11	27:UZ:56:ILE:HG13	1.84	0.41
27:UZ:226:LYS:O	27:UZ:229:ARG:HG2	2.20	0.41
28:CD:265:GLU:O	28:CD:269:GLU:OE1	2.38	0.41
30:CG:59:GLU:HA	30:CG:60:PRO:HA	1.80	0.41
31:CH:279:ARG:H	31:CH:279:ARG:HG2	1.59	0.41
32:CI:47:TYR:HB2	32:CI:103:VAL:HG23	2.01	0.41
33:CJ:54:LYS:HE3	33:CJ:54:LYS:HB3	1.86	0.41
35:CL:612:VAL:HG22	35:CL:615:PHE:HE2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:JC:355:PHE:CE2	38:JC:359:ILE:HD11	2.55	0.41
39:JF:76:LEU:CD2	39:JF:80:MET:HE1	2.50	0.41
39:JG:80:MET:HE3	39:JG:82:ARG:CG	2.51	0.41
39:JG:217:ALA:O	39:JG:221:VAL:HG13	2.20	0.41
42:JJ:190:VAL:HG21	42:JJ:251:ILE:HD12	2.02	0.41
45:JN:238:ILE:HD13	65:D2:339:A:C2	2.56	0.41
49:DE:80:THR:HG23	49:DE:81:THR:HG23	2.01	0.41
49:DE:183:VAL:HG13	49:DE:190:GLY:H	1.85	0.41
49:DE:185:GLY:O	49:DE:189:LEU:HB3	2.19	0.41
50:DF:76:ARG:O	50:DF:83:ARG:HG2	2.21	0.41
52:DH:27:LEU:O	52:DH:31:SER:CB	2.66	0.41
52:DH:51:VAL:HG13	52:DH:53:GLY:N	2.36	0.41
52:DH:134:GLU:OE1	52:DH:134:GLU:N	2.53	0.41
52:DH:144:VAL:CA	60:DW:42:GLN:HE21	2.30	0.41
53:DI:87:ASN:O	53:DI:91:VAL:HG23	2.19	0.41
53:DI:172:ARG:HE	53:DI:175:GLN:CG	2.33	0.41
58:DQ:24:ALA:HB2	58:DQ:92:TYR:OH	2.19	0.41
65:D2:433:C:H2'	65:D2:434:G:H8	1.85	0.41
65:D2:471:C:H1'	67:D4:48:A:H2	1.84	0.41
66:D3:34:G:N2	66:D3:475:A:N3	2.68	0.41
66:D3:464:A:C6	66:D3:465:G:C6	3.08	0.41
66:D3:761:G:H2'	66:D3:762:A:C8	2.56	0.41
66:D3:955:A:C5	66:D3:956:C:C2	3.07	0.41
66:D3:1167:G:H1	66:D3:1578:U:H3	1.67	0.41
66:D3:1496:U:H2'	66:D3:1497:U:H6	1.84	0.41
67:D4:6:C:H2'	67:D4:7:G:H8	1.86	0.41
67:D4:100:U:H2'	67:D4:101:G:C8	2.55	0.41
79:EN:850:TYR:O	79:EN:854:SER:N	2.50	0.41
2:DA:21:VAL:HG23	2:DA:23:PRO:HD3	2.03	0.41
2:DA:61:LEU:HD22	2:DA:96:LEU:HD21	2.02	0.41
2:DA:62:LYS:NZ	2:DA:90:GLU:OE1	2.39	0.41
3:JA:840:LYS:HG3	3:JA:841:ARG:N	2.36	0.41
4:UA:346:ASP:OD2	4:UA:666:ARG:NH2	2.53	0.41
4:UA:674:LYS:O	4:UA:674:LYS:HD2	2.20	0.41
4:UA:837:ASN:O	4:UA:840:THR:OG1	2.30	0.41
1:CB:234:ILE:HB	1:CB:260:PHE:CZ	2.55	0.41
1:CB:287:ALA:O	1:CB:291:GLN:OE1	2.38	0.41
5:UB:698:ILE:HG22	5:UB:699:PRO:O	2.19	0.41
8:UE:504:TRP:CZ3	12:UI:512:LEU:HD21	2.55	0.41
9:UF:182:TRP:CG	9:UF:277:CYS:HG	2.38	0.41
10:UG:111:PHE:CZ	10:UG:149:PHE:CE1	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:UG:259:TRP:CH2	10:UG:266:PRO:HD3	2.55	0.41
10:UG:260:SER:HB3	10:UG:267:LEU:HD11	2.03	0.41
10:UG:530:ASN:O	10:UG:534:LYS:HE3	2.20	0.41
10:UG:553:PHE:CD2	25:UV:806:PHE:HZ	2.38	0.41
13:UJ:218:ILE:HD12	13:UJ:263:VAL:HG21	2.02	0.41
13:UJ:488:GLY:C	13:UJ:492:LYS:HZ2	2.29	0.41
13:UJ:665:TYR:O	13:UJ:668:THR:OG1	2.32	0.41
13:UJ:684:TYR:HE2	13:UJ:723:LEU:HA	1.86	0.41
13:UJ:755:ARG:O	13:UJ:759:ILE:HG12	2.20	0.41
13:UJ:1349:ILE:O	13:UJ:1352:LEU:HG	2.20	0.41
13:UJ:1644:PHE:CE2	13:UJ:1683:HIS:HB3	2.56	0.41
15:UL:187:LYS:HG2	15:UL:199:THR:HG23	2.02	0.41
15:UL:432:TYR:CD2	66:D3:1657:U:C5	3.08	0.41
20:UQ:42:ARG:O	20:UQ:57:VAL:HG23	2.20	0.41
20:UQ:48:PHE:HB2	20:UQ:51:GLN:O	2.21	0.41
20:UQ:98:VAL:HA	20:UQ:99:PRO:HD3	1.94	0.41
20:UQ:293:LEU:HB3	20:UQ:324:TRP:CZ3	2.55	0.41
21:UR:257:HIS:HD1	21:UR:260:LYS:H	1.67	0.41
23:UT:114:CYS:O	23:UT:117:LEU:O	2.39	0.41
23:UT:786:PRO:HD2	23:UT:787:GLN:OE1	2.21	0.41
23:UT:1012:ARG:HG3	23:UT:1013:THR:HG23	2.01	0.41
23:UT:1402:ILE:HG13	23:UT:1417:TYR:CD1	2.51	0.41
23:UT:1856:THR:HG21	47:JP:110:TYR:HE1	1.85	0.41
24:UU:257:ARG:HH12	24:UU:261:SER:HB2	1.83	0.41
24:UU:469:SER:OG	24:UU:470:GLN:N	2.53	0.41
24:UU:579:ARG:HH12	24:UU:615:PRO:HA	1.86	0.41
25:UV:141:TRP:CE3	25:UV:144:LYS:HD2	2.56	0.41
25:UV:306:LYS:HA	25:UV:306:LYS:HD3	1.91	0.41
25:UV:485:TYR:O	25:UV:488:LEU:HG	2.20	0.41
25:UV:703:LYS:HD2	25:UV:1085:ILE:HD11	2.02	0.41
26:UX:16:THR:OG1	32:CI:34:ARG:NH2	2.53	0.41
26:UX:27:LYS:HB3	26:UX:27:LYS:HE2	1.76	0.41
26:UX:97:LEU:HD22	26:UX:128:LEU:HD23	2.01	0.41
27:UZ:119:TYR:CD1	27:UZ:149:LYS:HD2	2.55	0.41
28:CD:149:ARG:O	28:CD:152:LEU:HG	2.20	0.41
28:CD:291:TYR:OH	29:CE:251:ASP:OD1	2.30	0.41
29:CE:71:GLN:O	29:CE:75:LEU:HD23	2.20	0.41
29:CE:201:ASP:OD1	29:CE:203:VAL:N	2.49	0.41
31:CH:288:PHE:CE1	31:CH:295:LEU:HB2	2.55	0.41
31:CH:413:PHE:CE1	31:CH:425:TRP:HB2	2.55	0.41
31:CH:464:LEU:HD23	31:CH:464:LEU:HA	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CI:71:ARG:NH2	33:CJ:61:SER:HB2	2.35	0.41
33:CJ:42:LEU:O	45:JN:222:ASN:HB3	2.20	0.41
33:CJ:182:GLN:H	66:D3:1159:C:H42	1.67	0.41
33:CJ:253:ARG:O	33:CJ:253:ARG:HG3	2.19	0.41
34:CK:366:GLU:HB3	34:CK:370:ARG:NH1	2.34	0.41
35:CL:635:PHE:CZ	36:CM:221:CYS:HB2	2.56	0.41
35:CL:1034:LEU:HB2	35:CL:1037:GLN:NE2	2.36	0.41
36:CM:189:SER:OG	36:CM:250:LYS:HG2	2.19	0.41
37:CN:84:VAL:HB	37:CN:126:LEU:HD11	2.01	0.41
38:JC:163:TYR:CD1	38:JC:175:PRO:HB3	2.56	0.41
39:JF:102:SER:OG	39:JF:104:ILE:HG22	2.20	0.41
39:JF:233:SER:HB2	39:JG:101:ASP:OD2	2.20	0.41
39:JF:240:LYS:O	39:JG:243:HIS:CE1	2.73	0.41
44:JM:110:ASP:O	44:JM:114:ARG:HD3	2.21	0.41
47:JP:217:TRP:HE3	47:JP:254:PRO:HB2	1.86	0.41
50:DF:100:ASN:CG	50:DF:101:GLY:N	2.78	0.41
56:DN:26:PHE:CZ	56:DN:28:LEU:HB2	2.55	0.41
56:DN:89:TYR:CZ	56:DN:93:LYS:HD2	2.55	0.41
58:DQ:13:LYS:O	58:DQ:14:LYS:C	2.63	0.41
60:DW:115:GLU:HG2	60:DW:118:ARG:NH1	2.35	0.41
63:Db:22:LYS:HA	66:D3:864:U:H3	1.86	0.41
63:Db:81:ARG:HG2	63:Db:82:LYS:N	2.36	0.41
65:D2:195:A:H2'	65:D2:196:A:C8	2.55	0.41
65:D2:217:C:H2'	65:D2:218:U:C6	2.55	0.41
65:D2:357:G:C6	65:D2:369:G:C5	3.09	0.41
66:D3:155:U:H2'	66:D3:157:A:OP2	2.21	0.41
66:D3:194:U:O2'	66:D3:195:G:O4'	2.29	0.41
66:D3:686:C:H2'	66:D3:687:G:C8	2.56	0.41
66:D3:1203:A:H8	66:D3:1203:A:OP2	2.03	0.41
67:D4:331:A:C2	67:D4:332:G:C4	3.09	0.41
3:JA:214:LYS:HB3	3:JA:214:LYS:HE2	1.85	0.41
3:JA:480:ASP:OD2	3:JA:482:ILE:HB	2.20	0.41
3:JA:510:PRO:HB3	3:JA:649:TYR:CD1	2.55	0.41
3:JA:512:GLN:O	3:JA:512:GLN:HG2	2.20	0.41
4:UA:220:PHE:HD1	4:UA:248:TRP:H	1.69	0.41
4:UA:340:LYS:HB3	34:CK:479:ALA:HB3	2.03	0.41
4:UA:414:TRP:HA	4:UA:421:ASN:HA	2.02	0.41
4:UA:660:SER:O	4:UA:660:SER:OG	2.36	0.41
3:JB:494:VAL:HA	3:JB:539:ALA:HB1	2.02	0.41
7:UD:434:SER:HB3	7:UD:440:LEU:HD13	2.02	0.41
8:UE:184:PHE:HE1	8:UE:202:PHE:HE1	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:UE:364:THR:O	20:UQ:547:VAL:HA	2.21	0.41
8:UE:461:ASP:OD2	8:UE:464:VAL:HG23	2.21	0.41
9:UF:357:GLU:O	9:UF:360:LEU:HG	2.19	0.41
10:UG:111:PHE:CD2	10:UG:133:HIS:HB2	2.55	0.41
10:UG:274:ARG:NH2	65:D2:321:G:C2	2.89	0.41
11:UH:667:GLU:HA	11:UH:670:GLU:CD	2.46	0.41
13:UJ:300:CYS:O	13:UJ:304:GLN:HG2	2.20	0.41
13:UJ:329:THR:HA	13:UJ:332:ILE:HD13	2.03	0.41
13:UJ:332:ILE:O	13:UJ:336:LEU:HD23	2.21	0.41
13:UJ:550:TYR:HA	13:UJ:553:SER:OG	2.20	0.41
13:UJ:648:LYS:HE2	13:UJ:648:LYS:HB2	1.89	0.41
13:UJ:1380:LEU:HD21	13:UJ:1400:ILE:HA	2.02	0.41
13:UJ:1435:SER:HA	13:UJ:1438:LEU:HD13	2.02	0.41
13:UJ:1751:GLY:O	13:UJ:1755:VAL:HG22	2.20	0.41
15:UL:287:ARG:HH21	15:UL:326:LEU:C	2.28	0.41
15:UL:880:ILE:HG23	16:UM:806:LEU:HD22	2.02	0.41
16:UM:200:GLU:HA	16:UM:209:LEU:HB2	2.02	0.41
16:UM:416:ARG:HB3	16:UM:425:ASP:HB3	2.02	0.41
16:UM:591:ILE:HA	16:UM:600:LYS:O	2.20	0.41
16:UM:756:ALA:O	16:UM:760:ILE:HG22	2.21	0.41
17:UN:330:THR:HB	28:CD:88:LYS:HE2	2.02	0.41
18:UO:378:LYS:HD2	21:UR:292:GLY:O	2.20	0.41
20:UQ:64:LYS:NZ	20:UQ:122:LYS:HA	2.36	0.41
21:UR:208:LEU:HA	21:UR:211:ILE:HG22	2.03	0.41
21:UR:426:VAL:CG2	21:UR:458:ILE:HG13	2.48	0.41
21:UR:464:THR:O	21:UR:479:ASN:ND2	2.50	0.41
21:UR:570:PHE:CE2	21:UR:577:LEU:HD22	2.56	0.41
22:US:381:LYS:CE	22:US:461:SER:HB2	2.48	0.41
22:US:478:ALA:C	22:US:482:LYS:HZ3	2.28	0.41
23:UT:306:LEU:HG	23:UT:346:GLN:NE2	2.35	0.41
23:UT:521:THR:O	23:UT:525:ILE:HG12	2.21	0.41
23:UT:852:ASP:O	23:UT:855:MET:HB3	2.21	0.41
23:UT:1335:GLY:O	23:UT:1337:LYS:NZ	2.54	0.41
23:UT:1431:PHE:O	23:UT:1435:GLU:HG2	2.19	0.41
23:UT:1556:ARG:NH1	23:UT:1618:ASN:OD1	2.54	0.41
23:UT:2006:LEU:O	23:UT:2009:LYS:C	2.63	0.41
27:UZ:46:MET:HE1	27:UZ:197:LEU:HD23	2.02	0.41
29:CE:87:LEU:HD12	29:CE:88:ILE:H	1.84	0.41
29:CE:183:ARG:HA	29:CE:183:ARG:HD3	1.81	0.41
29:CE:316:THR:HA	29:CE:319:ILE:HG22	2.01	0.41
31:CH:412:HIS:CE1	31:CH:505:LEU:HD23	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:CI:5:LEU:C	32:CI:5:LEU:HD12	2.45	0.41
32:CI:114:ILE:HD12	32:CI:114:ILE:HG23	1.80	0.41
33:CJ:196:THR:HG23	33:CJ:199:GLY:H	1.86	0.41
34:CK:306:GLU:OE1	34:CK:309:LYS:HD2	2.21	0.41
34:CK:538:LYS:HE2	66:D3:1628:U:C2	2.56	0.41
35:CL:53:LYS:HE2	66:D3:433:C:C4	2.56	0.41
35:CL:774:PRO:HA	35:CL:778:GLN:NE2	2.36	0.41
35:CL:818:THR:OG1	36:CM:362:THR:HG21	2.20	0.41
35:CL:836:LYS:HE2	35:CL:836:LYS:HA	2.02	0.41
38:JC:194:LEU:HD11	38:JC:243:PHE:CZ	2.55	0.41
46:JO:42:MET:HG2	46:JO:43:THR:N	2.35	0.41
46:JO:153:LEU:HD12	46:JO:153:LEU:HA	1.73	0.41
47:JP:141:ASP:C	47:JP:143:LYS:H	2.27	0.41
47:JP:201:ILE:HG22	47:JP:215:LEU:O	2.19	0.41
49:DE:100:ARG:HH11	49:DE:100:ARG:HG2	1.85	0.41
51:DG:8:PRO:C	51:DG:11:GLY:H	2.28	0.41
52:DH:107:ARG:HA	52:DH:107:ARG:NE	2.35	0.41
53:DI:45:SER:HB3	53:DI:53:LYS:HE3	2.02	0.41
54:DJ:68:LYS:O	54:DJ:72:GLU:OE1	2.39	0.41
60:DW:97:ARG:HB2	60:DW:98:GLN:OE1	2.20	0.41
65:D2:178:G:C6	65:D2:179:A:C5	3.08	0.41
65:D2:185:A:C6	65:D2:213:G:C6	3.08	0.41
65:D2:405:A:H1'	65:D2:452:A:N6	2.35	0.41
66:D3:273:G:N2	66:D3:284:G:H1'	2.36	0.41
66:D3:486:G:H4'	66:D3:487:G:OP1	2.20	0.41
66:D3:548:G:C2	66:D3:591:A:C2	3.09	0.41
66:D3:1168:U:O2'	66:D3:1465:C:OP2	2.36	0.41
66:D3:1178:G:C2	66:D3:1462:G:C2	3.08	0.41
66:D3:1706:C:H2'	66:D3:1707:A:N9	2.35	0.41
74:EG:94:SER:O	74:EG:137:ILE:N	2.54	0.41
79:EN:699:ALA:O	79:EN:718:ILE:N	2.43	0.41
2:DA:131:ASP:CG	2:DA:180:THR:HB	2.45	0.41
2:DA:145:LYS:HB2	2:DA:149:GLN:CG	2.50	0.41
3:JA:899:ALA:HB1	3:JA:904:LEU:O	2.20	0.41
4:UA:499:ILE:HD12	4:UA:544:ILE:HD11	2.03	0.41
5:UB:672:THR:CG2	5:UB:682:ARG:HD2	2.50	0.41
7:UD:84:ASN:ND2	7:UD:630:LYS:HD2	2.36	0.41
7:UD:436:ASP:N	7:UD:436:ASP:OD1	2.54	0.41
7:UD:580:LYS:HE2	7:UD:580:LYS:HB2	1.92	0.41
7:UD:742:LEU:HD23	7:UD:742:LEU:HA	1.87	0.41
10:UG:508:VAL:HA	46:JO:73:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:82:ASP:HB2	47:JP:11:ASP:OD2	2.19	0.41
13:UJ:413:ASP:HB2	13:UJ:417:LYS:NZ	2.35	0.41
13:UJ:1609:ILE:HG21	13:UJ:1653:ASN:HD21	1.85	0.41
13:UJ:1713:LEU:O	13:UJ:1717:LYS:HG2	2.20	0.41
13:UJ:1741:ASP:CB	13:UJ:1744:ILE:HD12	2.49	0.41
14:UK:93:MET:HE1	65:D2:244:U:H1'	2.02	0.41
14:UK:196:LYS:HD2	65:D2:424:G:OP2	2.20	0.41
15:UL:105:VAL:HG21	15:UL:115:LEU:CD2	2.50	0.41
15:UL:168:GLY:HA3	15:UL:180:THR:OG1	2.20	0.41
15:UL:170:TRP:CG	15:UL:212:VAL:HG21	2.55	0.41
15:UL:554:THR:OG1	15:UL:555:VAL:N	2.54	0.41
15:UL:811:ARG:HH11	15:UL:811:ARG:HG3	1.86	0.41
16:UM:78:TYR:CZ	16:UM:86:LYS:HB2	2.55	0.41
16:UM:191:SER:OG	16:UM:192:ALA:N	2.53	0.41
16:UM:353:LEU:HB2	16:UM:365:ILE:HG13	2.01	0.41
16:UM:463:ILE:N	16:UM:487:ARG:O	2.48	0.41
16:UM:632:ILE:CG1	16:UM:644:TRP:HB2	2.51	0.41
16:UM:684:LEU:O	16:UM:687:THR:OG1	2.31	0.41
19:UP:163:LEU:O	19:UP:167:ARG:HG2	2.21	0.41
20:UQ:60:ARG:HG2	20:UQ:382:LYS:O	2.21	0.41
20:UQ:148:GLU:OE2	20:UQ:148:GLU:N	2.48	0.41
21:UR:433:TRP:NE1	21:UR:446:ARG:HD2	2.35	0.41
22:US:424:ASN:HB3	22:US:427:GLN:CG	2.51	0.41
23:UT:500:LEU:HB3	23:UT:503:ARG:NH1	2.36	0.41
23:UT:1202:LEU:O	23:UT:1206:THR:HG23	2.20	0.41
23:UT:1952:SER:CB	23:UT:1995:ARG:HD2	2.50	0.41
24:UU:125:GLY:O	24:UU:142:LYS:HE3	2.21	0.41
24:UU:217:VAL:HG23	24:UU:220:ILE:HG13	2.03	0.41
24:UU:225:THR:OG1	24:UU:229:GLU:O	2.38	0.41
24:UU:255:SER:HB2	24:UU:302:THR:HA	2.03	0.41
24:UU:449:ARG:HG2	24:UU:450:VAL:O	2.21	0.41
25:UV:1138:ASP:HA	25:UV:1141:GLU:OE1	2.20	0.41
27:UZ:225:ASP:OD2	27:UZ:228:LYS:NZ	2.39	0.41
29:CE:111:ALA:C	29:CE:113:THR:N	2.78	0.41
29:CE:121:LYS:O	29:CE:124:LEU:HG	2.21	0.41
29:CE:299:LEU:HD22	29:CE:341:LEU:HD23	2.02	0.41
29:CE:327:PHE:CD2	67:D4:323:G:C5	3.08	0.41
33:CJ:29:ARG:HD3	33:CJ:59:ASP:HB3	2.01	0.41
35:CL:846:VAL:HA	35:CL:855:GLN:HA	2.02	0.41
36:CM:130:ILE:O	36:CM:133:ILE:HG22	2.20	0.41
36:CM:133:ILE:HG13	36:CM:137:LEU:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:JC:84:TYR:HD1	38:JC:91:LEU:HA	1.85	0.41
38:JC:101:ASN:OD1	38:JC:116:HIS:HB2	2.20	0.41
39:JF:48:ALA:O	39:JF:116:THR:OG1	2.31	0.41
44:JM:57:THR:HG23	44:JM:61:LYS:NZ	2.35	0.41
45:JN:287:ILE:HG23	45:JN:287:ILE:HD12	1.83	0.41
47:JP:61:GLN:HE21	67:D4:31:G:H22	1.69	0.41
47:JP:208:ARG:HD2	47:JP:212:VAL:HG22	2.02	0.41
49:DE:87:MET:HE1	49:DE:123:LEU:N	2.32	0.41
49:DE:132:GLY:HA2	66:D3:252:U:H5'	2.01	0.41
49:DE:207:LEU:HD12	49:DE:219:VAL:CG1	2.51	0.41
51:DG:136:LYS:HB3	66:D3:168:A:O5'	2.21	0.41
57:DO:43:THR:HG22	57:DO:45:GLY:H	1.85	0.41
58:DQ:65:ILE:HG21	58:DQ:85:ILE:CD1	2.51	0.41
58:DQ:83:GLN:OE1	58:DQ:119:ALA:HB2	2.21	0.41
62:DY:91:LEU:HA	62:DY:91:LEU:HD23	1.87	0.41
63:Db:8:LEU:C	63:Db:10:PRO:HD3	2.46	0.41
65:D2:443:G:N2	65:D2:444:U:C2	2.88	0.41
65:D2:458:A:C6	65:D2:459:U:C4	3.08	0.41
65:D2:476:A:C2	65:D2:477:G:C4	3.09	0.41
66:D3:59:C:C4	66:D3:452:A:C6	3.09	0.41
66:D3:103:A:O3'	66:D3:308:C:N4	2.54	0.41
66:D3:523:G:C8	66:D3:524:U:C5	3.09	0.41
66:D3:555:A:C6	66:D3:557:G:C4	3.08	0.41
66:D3:1499:G:H1	66:D3:1508:U:H3	1.68	0.41
66:D3:1533:C:H2'	66:D3:1534:G:C8	2.56	0.41
66:D3:1586:A:C2	66:D3:1611:A:C5	3.08	0.41
79:EN:329:TYR:N	79:EN:555:VAL:O	2.51	0.41
4:UA:217:VAL:HB	4:UA:252:LYS:HB3	2.03	0.41
4:UA:417:ILE:HD13	4:UA:417:ILE:HA	1.88	0.41
4:UA:743:PHE:HZ	4:UA:778:ILE:HD13	1.85	0.41
4:UA:753:LYS:HA	24:UU:710:TYR:CE2	2.56	0.41
1:CB:103:GLU:N	1:CB:103:GLU:OE1	2.54	0.41
7:UD:291:ASP:OD2	7:UD:293:ASN:ND2	2.52	0.41
7:UD:581:SER:OG	7:UD:582:VAL:N	2.53	0.41
8:UE:552:ASN:O	8:UE:556:THR:HG23	2.20	0.41
9:UF:128:LYS:O	9:UF:132:ILE:HG22	2.20	0.41
10:UG:160:LEU:HD13	10:UG:219:VAL:HG21	2.02	0.41
10:UG:335:GLY:O	10:UG:378:VAL:HG12	2.20	0.41
10:UG:401:LEU:HA	10:UG:401:LEU:HD23	1.66	0.41
11:UH:567:LEU:HD12	11:UH:598:GLU:CG	2.51	0.41
12:UI:420:ILE:O	12:UI:424:ILE:HG13	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:1499:ILE:H	13:UJ:1499:ILE:HD12	1.85	0.41
13:UJ:1573:LEU:HD13	13:UJ:1621:LEU:HD12	2.03	0.41
13:UJ:1651:LEU:O	13:UJ:1655:LEU:HG	2.21	0.41
13:UJ:1670:ILE:HA	13:UJ:1673:LEU:CD2	2.51	0.41
13:UJ:1670:ILE:HA	13:UJ:1673:LEU:HD21	2.03	0.41
13:UJ:1764:PHE:HE2	13:UJ:1768:LEU:HD13	1.86	0.41
15:UL:25:TRP:HA	15:UL:41:LEU:HD12	2.03	0.41
15:UL:367:ILE:HD11	15:UL:379:PRO:HB3	2.01	0.41
15:UL:426:ARG:HG3	15:UL:428:PHE:CE2	2.55	0.41
15:UL:502:PHE:HZ	15:UL:520:LEU:HD23	1.85	0.41
16:UM:679:THR:HG21	16:UM:723:GLU:CG	2.51	0.41
17:UN:306:ARG:O	17:UN:306:ARG:HG2	2.20	0.41
18:UO:8:ILE:O	18:UO:8:ILE:HG13	2.20	0.41
18:UO:281:VAL:O	18:UO:295:GLY:HA2	2.21	0.41
20:UQ:115:HIS:HD2	20:UQ:131:HIS:CE1	2.38	0.41
20:UQ:141:LEU:HD23	20:UQ:142:ALA:N	2.35	0.41
20:UQ:208:LEU:O	20:UQ:227:VAL:HA	2.21	0.41
20:UQ:424:GLN:O	20:UQ:428:LEU:HD23	2.19	0.41
21:UR:216:TYR:OH	24:UU:246:ILE:HA	2.21	0.41
21:UR:426:VAL:HG11	21:UR:455:ILE:HG21	2.01	0.41
21:UR:449:ASP:OD1	21:UR:450:GLN:N	2.53	0.41
21:UR:462:GLY:HA2	21:UR:527:GLY:HA3	2.02	0.41
22:US:273:GLN:O	22:US:274:TYR:C	2.63	0.41
22:US:273:GLN:O	22:US:276:SER:N	2.54	0.41
23:UT:269:GLU:O	23:UT:272:VAL:HG22	2.20	0.41
23:UT:446:GLN:N	23:UT:449:ARG:HH21	2.18	0.41
23:UT:465:PHE:CD1	23:UT:500:LEU:HD13	2.55	0.41
23:UT:1074:ASP:OD1	23:UT:1074:ASP:N	2.54	0.41
23:UT:1106:LEU:HD11	23:UT:1150:ILE:HG12	2.01	0.41
23:UT:1405:GLY:O	23:UT:1408:ASP:HB2	2.20	0.41
23:UT:1431:PHE:HB3	23:UT:1434:PHE:CD2	2.55	0.41
23:UT:1602:ASP:OD2	23:UT:1609:ARG:HB2	2.21	0.41
24:UU:85:ALA:HB2	24:UU:90:VAL:HG12	2.03	0.41
24:UU:93:ALA:HB2	24:UU:121:LEU:HD12	2.02	0.41
24:UU:120:HIS:HB2	24:UU:131:SER:OG	2.21	0.41
24:UU:717:ASP:CG	24:UU:719:GLU:H	2.29	0.41
24:UU:814:GLU:OE1	24:UU:814:GLU:N	2.54	0.41
25:UV:141:TRP:HD1	25:UV:178:TYR:HD2	1.68	0.41
25:UV:164:ASP:HA	25:UV:165:PRO:HA	1.91	0.41
25:UV:343:GLU:H	25:UV:343:GLU:CD	2.27	0.41
25:UV:442:PHE:CE1	25:UV:469:ASP:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:708:LEU:HD13	25:UV:721:VAL:HG21	2.02	0.41
25:UV:1081:ASN:ND2	25:UV:1083:GLN:HE22	2.19	0.41
28:CD:7:LEU:C	28:CD:7:LEU:HD12	2.45	0.41
28:CD:100:ILE:HG12	28:CD:102:ASP:H	1.85	0.41
28:CD:194:ARG:NH1	29:CE:165:GLN:HE22	2.17	0.41
34:CK:491:ALA:N	34:CK:494:GLU:OE1	2.29	0.41
35:CL:831:ARG:NH2	35:CL:838:ILE:HG22	2.35	0.41
35:CL:966:ILE:HG22	35:CL:1003:LEU:HD12	2.02	0.41
35:CL:991:PHE:CD1	35:CL:995:ILE:HG21	2.56	0.41
36:CM:189:SER:HB2	36:CM:250:LYS:H	1.86	0.41
38:JC:227:ARG:NH2	38:JC:227:ARG:HB3	2.36	0.41
39:JF:125:ASN:OD1	39:JF:125:ASN:N	2.54	0.41
39:JG:176:ARG:HA	39:JG:176:ARG:NE	2.36	0.41
42:JJ:181:TYR:O	42:JJ:234:LEU:HA	2.20	0.41
44:JM:120:ASP:CG	44:JM:173:ILE:HG22	2.45	0.41
47:JP:229:GLN:HG3	47:JP:271:PRO:HB3	2.02	0.41
47:JP:415:ARG:NH2	66:D3:4:C:N4	2.69	0.41
49:DE:57:ASN:ND2	49:DE:59:ARG:HG2	2.35	0.41
49:DE:163:ASP:OD1	49:DE:166:SER:N	2.53	0.41
50:DF:42:LEU:HB2	50:DF:48:PHE:HE1	1.86	0.41
50:DF:82:PHE:O	50:DF:85:ALA:N	2.54	0.41
53:DI:174:GLY:HA3	66:D3:331:A:OP1	2.19	0.41
58:DQ:52:LEU:HD13	58:DQ:60:PHE:CE2	2.56	0.41
60:DW:37:PHE:CE2	60:DW:103:ILE:HD12	2.56	0.41
60:DW:81:VAL:HG13	60:DW:85:ASP:HB2	2.02	0.41
61:DX:98:GLU:N	61:DX:100:ASP:OD2	2.46	0.41
62:DY:34:ASN:C	62:DY:34:ASN:HD22	2.28	0.41
65:D2:163:G:H21	65:D2:164:G:H1'	1.85	0.41
66:D3:104:A:N6	66:D3:308:C:O4'	2.54	0.41
66:D3:158:U:H2'	66:D3:160:C:C5'	2.48	0.41
66:D3:765:G:N2	66:D3:771:A:N6	2.68	0.41
66:D3:882:U:H2'	66:D3:883:C:C6	2.55	0.41
66:D3:955:A:C6	66:D3:956:C:N3	2.88	0.41
66:D3:1634:C:N4	66:D3:1635:A:C6	2.88	0.41
66:D3:1784:C:H2'	66:D3:1785:U:H6	1.86	0.41
67:D4:44:U:C2	67:D4:45:U:C4	3.09	0.41
74:EG:70:GLN:O	74:EG:145:LYS:N	2.41	0.41
2:DA:16:GLN:O	16:UM:358:ASN:ND2	2.39	0.41
2:DA:208:GLN:HG3	2:DA:209:ASN:N	2.36	0.41
3:JA:616:TRP:HE1	51:DG:22:HIS:CE1	2.39	0.41
3:JA:796:PHE:CZ	3:JA:801:ALA:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:UA:83:ASN:HB2	4:UA:90:LEU:HD11	2.03	0.41
4:UA:653:LEU:HD13	4:UA:653:LEU:HA	1.81	0.41
4:UA:653:LEU:O	4:UA:656:ARG:N	2.40	0.41
4:UA:804:SER:HB2	16:UM:811:VAL:HG11	2.02	0.41
1:CB:246:GLN:HB3	1:CB:248:ASP:OD1	2.20	0.41
1:CB:311:ARG:NH2	1:CB:312:ASP:OD2	2.53	0.41
5:UB:617:HIS:O	5:UB:621:THR:HG23	2.20	0.41
5:UB:648:SER:HB3	5:UB:687:LYS:HZ2	1.85	0.41
7:UD:383:LEU:HD13	7:UD:433:LEU:HA	2.01	0.41
7:UD:745:ASP:CG	7:UD:746:LEU:H	2.29	0.41
10:UG:15:ARG:HD2	10:UG:61:ALA:HB3	2.03	0.41
10:UG:88:GLN:O	10:UG:91:ILE:N	2.54	0.41
10:UG:498:ARG:O	10:UG:502:ARG:HG2	2.20	0.41
11:UH:676:TRP:NE1	12:UI:487:ARG:NH2	2.68	0.41
12:UI:479:CYS:O	12:UI:482:LEU:HG	2.20	0.41
12:UI:493:LEU:O	12:UI:496:LEU:HB3	2.21	0.41
13:UJ:345:ASP:HB2	13:UJ:375:LEU:HD13	2.02	0.41
13:UJ:571:LEU:HD22	13:UJ:630:TYR:OH	2.20	0.41
13:UJ:1375:PRO:HB2	13:UJ:1379:LYS:NZ	2.36	0.41
13:UJ:1456:VAL:O	13:UJ:1459:ARG:HG2	2.20	0.41
13:UJ:1476:LEU:O	13:UJ:1480:THR:HG23	2.20	0.41
13:UJ:1519:ASN:OD1	13:UJ:1520:THR:N	2.51	0.41
13:UJ:1568:GLU:O	13:UJ:1572:LEU:HD23	2.21	0.41
13:UJ:1726:LEU:N	13:UJ:1727:PRO:HD2	2.36	0.41
14:UK:20:THR:C	14:UK:22:ARG:H	2.29	0.41
14:UK:231:LYS:O	14:UK:242:PHE:HA	2.20	0.41
15:UL:139:GLY:HA2	15:UL:145:ILE:HG22	2.03	0.41
15:UL:334:SER:OG	15:UL:335:LEU:N	2.53	0.41
15:UL:754:GLU:HG2	15:UL:755:ALA:N	2.34	0.41
16:UM:341:ALA:HA	16:UM:621:TRP:CD1	2.56	0.41
18:UO:437:SER:O	18:UO:440:GLU:HG2	2.21	0.41
20:UQ:483:LYS:HA	20:UQ:487:GLU:OE2	2.21	0.41
20:UQ:633:LEU:HA	20:UQ:639:LYS:O	2.21	0.41
23:UT:95:ILE:HD11	23:UT:107:LEU:HD22	2.01	0.41
23:UT:118:GLY:O	23:UT:120:ASP:N	2.54	0.41
23:UT:687:ASN:OD1	23:UT:688:VAL:HG13	2.21	0.41
23:UT:990:THR:O	23:UT:994:ILE:HG23	2.20	0.41
24:UU:232:MET:HE1	24:UU:256:PHE:HZ	1.85	0.41
24:UU:522:LEU:C	24:UU:524:GLY:H	2.28	0.41
24:UU:542:LEU:HD13	24:UU:542:LEU:HA	1.97	0.41
25:UV:303:PHE:HB3	25:UV:307:LYS:NZ	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:UV:492:ALA:O	25:UV:496:LEU:HD23	2.21	0.41
25:UV:1220:PHE:HB3	25:UV:1234:PHE:CE2	2.56	0.41
27:UZ:126:VAL:HG23	27:UZ:152:TYR:C	2.46	0.41
27:UZ:243:PHE:HD1	27:UZ:253:PRO:HA	1.86	0.41
28:CD:300:ALA:HA	28:CD:390:ASP:OD1	2.21	0.41
29:CE:230:GLU:H	29:CE:230:GLU:CD	2.25	0.41
30:CF:62:GLU:O	30:CF:65:LEU:N	2.54	0.41
31:CH:140:LEU:HD12	31:CH:568:ILE:HG22	2.03	0.41
31:CH:304:ILE:HG21	31:CH:338:THR:HG21	2.03	0.41
31:CH:308:SER:HB2	31:CH:315:LEU:HD11	2.03	0.41
31:CH:443:LEU:HD23	31:CH:471:GLN:HE21	1.85	0.41
33:CJ:192:ASP:OD1	33:CJ:193:ASN:N	2.54	0.41
34:CK:442:ALA:HA	34:CK:445:VAL:HG12	2.02	0.41
35:CL:107:VAL:HG12	35:CL:108:VAL:N	2.36	0.41
35:CL:772:MET:O	35:CL:776:GLN:HB3	2.20	0.41
36:CM:91:PRO:HD2	36:CM:99:PHE:CE2	2.54	0.41
37:CN:224:ASN:OD1	37:CN:227:ARG:NH2	2.54	0.41
38:JC:286:GLU:OE1	38:JC:302:ARG:NH1	2.54	0.41
39:JG:151:ARG:HH21	66:D3:1572:G:H21	1.67	0.41
44:JM:177:LEU:HD12	44:JM:177:LEU:HA	1.91	0.41
45:JN:264:LEU:HD22	45:JN:273:ARG:NH2	2.36	0.41
46:JO:174:MET:HE2	46:JO:174:MET:HB3	1.91	0.41
50:DF:68:ILE:HD12	50:DF:68:ILE:HA	1.89	0.41
50:DF:186:ASN:ND2	50:DF:188:LYS:HB2	2.36	0.41
51:DG:65:GLN:OE1	51:DG:65:GLN:N	2.54	0.41
51:DG:93:LYS:HD2	66:D3:405:C:H5"	2.02	0.41
51:DG:102:VAL:HG23	51:DG:106:LEU:HD13	2.02	0.41
51:DG:132:ARG:HD2	51:DG:132:ARG:HA	1.90	0.41
52:DH:140:VAL:CG1	60:DW:52:TYR:HB3	2.51	0.41
56:DN:72:MET:HE3	56:DN:72:MET:HB3	1.89	0.41
56:DN:110:ASP:O	56:DN:114:ARG:HG2	2.19	0.41
57:DO:92:LYS:NZ	57:DO:121:VAL:HG23	2.35	0.41
65:D2:243:A:C4	65:D2:271:G:N1	2.88	0.41
65:D2:341:G:C6	65:D2:342:C:C4	3.09	0.41
66:D3:121:U:C4	66:D3:122:U:C4	3.08	0.41
66:D3:379:U:H2'	66:D3:380:U:C6	2.56	0.41
66:D3:386:G:C2	66:D3:387:A:C2	3.09	0.41
66:D3:912:U:H4'	66:D3:913:G:O5'	2.21	0.41
66:D3:1503:A:H8	66:D3:1503:A:OP1	2.03	0.41
66:D3:1528:U:H6	66:D3:1528:U:O5'	2.04	0.41
66:D3:1645:G:H2'	66:D3:1646:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:1658:G:H2'	66:D3:1659:A:H8	1.86	0.41
66:D3:1661:U:H2'	66:D3:1662:G:C8	2.55	0.41
66:D3:1785:U:H2'	66:D3:1786:G:O4'	2.21	0.41
73:EF:65:LYS:O	73:EF:123:LYS:N	2.52	0.41
78:EK:567:GLY:HA2	78:EK:627:ILE:HA	2.02	0.41
79:EN:872:GLU:C	79:EN:874:GLN:N	2.79	0.41
1:CA:172:TYR:CE2	1:CA:241:PHE:CD2	3.09	0.41
1:CA:236:MET:HG3	28:CD:133:LEU:CD1	2.51	0.41
3:JA:36:GLN:HG3	3:JA:205:LEU:HD21	2.03	0.41
3:JA:45:MET:HG2	3:JA:53:LYS:CE	2.51	0.41
3:JA:97:PHE:CE1	3:JA:101:GLN:HG3	2.56	0.41
3:JA:159:LYS:HA	3:JA:159:LYS:HD2	1.85	0.41
4:UA:155:SER:OG	4:UA:156:GLN:N	2.53	0.41
4:UA:458:TRP:CD1	4:UA:465:LEU:HB3	2.56	0.41
4:UA:477:SER:HB2	4:UA:493:TRP:NE1	2.36	0.41
4:UA:491:ALA:HB1	4:UA:518:VAL:CG2	2.48	0.41
1:CB:142:ARG:NH2	1:CB:183:HIS:CE1	2.89	0.41
1:CB:272:LYS:HD3	1:CB:275:CYS:HB2	2.01	0.41
3:JB:790:SER:CB	3:JB:891:GLN:HA	2.50	0.41
5:UB:511:SER:OG	5:UB:556:ILE:O	2.24	0.41
6:UC:502:LYS:O	6:UC:505:LYS:HG2	2.21	0.41
6:UC:596:THR:CG2	44:JM:137:LYS:HG3	2.50	0.41
7:UD:55:SER:HB3	7:UD:290:THR:HG22	2.03	0.41
7:UD:82:ARG:NH2	7:UD:685:SER:O	2.49	0.41
7:UD:100:GLU:OE2	7:UD:119:GLY:HA2	2.21	0.41
7:UD:163:GLY:HA3	7:UD:186:GLN:O	2.20	0.41
7:UD:438:GLN:HB2	7:UD:453:LEU:O	2.21	0.41
7:UD:569:PHE:HB2	7:UD:687:PHE:CZ	2.55	0.41
7:UD:768:ALA:HA	19:UP:213:LYS:HZ2	1.86	0.41
8:UE:11:ASP:HB3	8:UE:65:TRP:CZ3	2.56	0.41
8:UE:238:SER:OG	8:UE:243:SER:N	2.51	0.41
10:UG:40:LYS:HE2	66:D3:-5:G:N7	2.36	0.41
10:UG:218:ASP:OD1	10:UG:220:SER:N	2.34	0.41
10:UG:236:MET:HA	10:UG:236:MET:HE3	2.02	0.41
10:UG:394:HIS:NE2	10:UG:399:THR:OG1	2.42	0.41
10:UG:431:ARG:NH1	67:D4:37:G:C4	2.89	0.41
10:UG:485:ASP:HA	10:UG:519:GLN:HE22	1.86	0.41
10:UG:553:PHE:HZ	25:UV:792:TRP:CE3	2.39	0.41
11:UH:551:PHE:HZ	11:UH:569:GLU:HG2	1.86	0.41
12:UI:483:LYS:HG2	12:UI:487:ARG:NH2	2.36	0.41
12:UI:499:ILE:HD13	12:UI:502:ARG:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:UJ:160:LEU:HD21	24:UU:328:LEU:HG	2.03	0.41
13:UJ:238:LEU:O	13:UJ:241:ILE:HG22	2.20	0.41
13:UJ:362:LYS:O	13:UJ:366:ILE:HG13	2.21	0.41
14:UK:134:THR:HA	19:UP:177:ARG:O	2.21	0.41
14:UK:156:SER:OG	14:UK:157:GLU:N	2.54	0.41
15:UL:52:TRP:HA	15:UL:60:VAL:HG22	2.03	0.41
15:UL:68:PRO:HG2	15:UL:71:ALA:HB2	2.03	0.41
15:UL:88:HIS:NE2	15:UL:90:ASP:HB2	2.36	0.41
15:UL:632:SER:OG	15:UL:640:LYS:HB2	2.21	0.41
15:UL:826:PHE:O	15:UL:829:VAL:HB	2.21	0.41
15:UL:888:ARG:HH11	15:UL:888:ARG:HD2	1.74	0.41
16:UM:25:VAL:HG23	16:UM:31:ILE:O	2.21	0.41
16:UM:268:GLN:HE22	16:UM:280:ARG:NE	2.19	0.41
16:UM:540:SER:OG	16:UM:549:ALA:HB3	2.20	0.41
16:UM:555:LYS:HE3	16:UM:572:GLU:OE2	2.21	0.41
16:UM:593:CYS:HB3	16:UM:620:LEU:CB	2.51	0.41
16:UM:610:LEU:HD23	16:UM:611:LYS:HG3	2.03	0.41
16:UM:628:ASP:N	16:UM:628:ASP:OD1	2.51	0.41
18:UO:2:SER:HA	20:UQ:336:ARG:O	2.21	0.41
18:UO:4:ALA:C	20:UQ:336:ARG:HH12	2.28	0.41
18:UO:453:VAL:HG23	18:UO:454:ARG:N	2.22	0.41
19:UP:170:SER:HA	19:UP:178:VAL:O	2.21	0.41
20:UQ:179:ASP:HA	20:UQ:181:ALA:O	2.21	0.41
20:UQ:408:THR:HG23	20:UQ:410:ASN:N	2.27	0.41
20:UQ:558:THR:OG1	20:UQ:576:ALA:O	2.29	0.41
21:UR:15:PRO:CB	21:UR:20:GLN:HE21	2.31	0.41
21:UR:421:THR:OG1	21:UR:437:LEU:HB2	2.20	0.41
22:US:149:ARG:NE	22:US:198:GLU:OE1	2.54	0.41
22:US:186:THR:O	22:US:186:THR:HG22	2.21	0.41
23:UT:42:VAL:HG21	62:DY:49:LYS:NZ	2.36	0.41
23:UT:94:PHE:O	23:UT:97:PHE:HB2	2.21	0.41
23:UT:337:THR:HA	23:UT:340:ILE:HG22	2.03	0.41
23:UT:572:LYS:HE2	23:UT:572:LYS:HB3	1.89	0.41
23:UT:649:PHE:CE1	23:UT:659:SER:HA	2.56	0.41
23:UT:667:PHE:HB3	23:UT:703:PHE:CZ	2.56	0.41
23:UT:795:ASP:O	23:UT:798:PRO:HD2	2.21	0.41
23:UT:900:GLU:OE1	23:UT:904:PHE:HE1	2.04	0.41
23:UT:914:LYS:HA	23:UT:914:LYS:HD3	1.67	0.41
23:UT:943:ARG:HH22	66:D3:258:C:H41	1.69	0.41
23:UT:999:GLY:O	23:UT:1003:ILE:HG12	2.21	0.41
23:UT:1015:PHE:CZ	23:UT:1065:VAL:HG23	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:1023:LEU:O	23:UT:1027:ILE:HG12	2.21	0.41
23:UT:1415:SER:HA	23:UT:1418:VAL:HG12	2.03	0.41
23:UT:1476:LEU:O	23:UT:1477:LYS:HB3	2.21	0.41
23:UT:1482:SER:HA	23:UT:1486:ILE:HG23	2.02	0.41
23:UT:1725:ILE:HG12	23:UT:1792:LEU:HD21	2.02	0.41
24:UU:24:PHE:CZ	24:UU:641:LEU:HD22	2.56	0.41
24:UU:144:ASP:CG	24:UU:146:GLN:H	2.27	0.41
24:UU:491:SER:OG	24:UU:493:ILE:HG13	2.20	0.41
24:UU:581:LEU:HD23	24:UU:612:TRP:CE3	2.56	0.41
24:UU:851:SER:HB2	42:JJ:245:GLU:CD	2.45	0.41
25:UV:365:LEU:HD12	25:UV:368:LEU:HD11	2.03	0.41
25:UV:378:ASN:O	25:UV:387:GLY:HA2	2.21	0.41
25:UV:598:LYS:HD2	25:UV:599:VAL:C	2.46	0.41
25:UV:626:LYS:HG3	25:UV:628:VAL:O	2.21	0.41
25:UV:918:ARG:O	25:UV:922:THR:HG23	2.21	0.41
25:UV:947:PRO:HD2	25:UV:948:TYR:CE2	2.56	0.41
25:UV:960:LYS:HA	25:UV:963:LYS:NZ	2.35	0.41
25:UV:966:SER:O	25:UV:1069:LYS:HE3	2.20	0.41
26:UX:65:VAL:HA	26:UX:152:ILE:O	2.20	0.41
26:UX:85:GLY:O	26:UX:88:ASP:OD1	2.39	0.41
28:CD:281:LEU:HD12	28:CD:281:LEU:HA	1.81	0.41
28:CD:295:LYS:HZ2	29:CE:251:ASP:CG	2.29	0.41
28:CD:296:MET:HG3	28:CD:304:SER:HB2	2.03	0.41
28:CD:385:MET:SD	30:CG:63:ILE:HD12	2.60	0.41
29:CE:192:PHE:HE1	29:CE:239:ALA:HA	1.86	0.41
30:CF:58:CYS:SG	30:CF:61:ILE:HA	2.61	0.41
31:CH:79:ASN:O	31:CH:82:LEU:HG	2.21	0.41
31:CH:144:GLU:OE1	31:CH:144:GLU:N	2.52	0.41
31:CH:364:GLU:OE1	31:CH:364:GLU:N	2.54	0.41
33:CJ:56:PHE:CG	33:CJ:56:PHE:O	2.72	0.41
33:CJ:120:GLY:O	66:D3:1585:U:OP1	2.39	0.41
34:CK:457:VAL:HA	34:CK:458:PRO:HD3	1.87	0.41
34:CK:501:ALA:HB2	34:CK:508:ARG:HB2	2.03	0.41
34:CK:505:GLY:O	34:CK:517:LYS:HG2	2.21	0.41
34:CK:516:SER:O	34:CK:519:GLU:HG3	2.21	0.41
35:CL:54:LEU:HD12	61:DX:77:ILE:CG2	2.50	0.41
35:CL:69:PRO:CD	35:CL:274:TYR:HD2	2.33	0.41
35:CL:71:ILE:HD11	35:CL:276:HIS:CD2	2.56	0.41
35:CL:216:PRO:HB2	35:CL:219:GLU:HG3	2.01	0.41
35:CL:631:ILE:HD12	35:CL:631:ILE:HA	1.91	0.41
35:CL:802:LYS:NZ	35:CL:803:ASN:OD1	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:CL:1071:LYS:HD3	35:CL:1071:LYS:HA	1.77	0.41
35:CL:1117:LEU:HD23	35:CL:1117:LEU:HA	1.81	0.41
35:CL:1142:LEU:CD2	66:D3:493:U:H5"	2.45	0.41
35:CL:1146:GLU:OE2	35:CL:1146:GLU:HA	2.20	0.41
36:CM:18:ARG:HD3	36:CM:98:TYR:HE1	1.84	0.41
36:CM:343:ASP:OD1	36:CM:344:GLU:N	2.53	0.41
38:JC:169:LYS:O	38:JC:171:ARG:NH1	2.54	0.41
38:JC:207:TRP:HE1	38:JC:214:ARG:NH1	2.19	0.41
38:JC:223:ASN:OD1	38:JC:226:ASN:N	2.53	0.41
38:JC:227:ARG:NH1	38:JC:248:SER:HG	2.16	0.41
38:JC:252:SER:OG	38:JC:266:LYS:HG3	2.21	0.41
39:JF:45:LEU:HB2	39:JF:114:ILE:HG13	2.02	0.41
39:JF:99:LEU:HD23	39:JF:99:LEU:HA	1.87	0.41
39:JF:219:GLU:HG2	39:JF:220:TYR:N	2.36	0.41
39:JG:105:ASN:C	39:JG:108:GLY:H	2.28	0.41
42:JJ:269:ARG:N	42:JJ:269:ARG:HD2	2.36	0.41
43:JK:489:GLN:OE1	43:JK:489:GLN:N	2.54	0.41
45:JN:165:LEU:HD13	45:JN:165:LEU:HA	1.91	0.41
47:JP:26:ARG:HH21	47:JP:26:ARG:HG2	1.86	0.41
47:JP:133:GLN:OE1	47:JP:151:ASN:HA	2.20	0.41
47:JP:221:ASN:OD1	47:JP:221:ASN:N	2.45	0.41
49:DE:139:VAL:CG1	49:DE:147:ILE:HB	2.51	0.41
49:DE:154:ILE:HA	49:DE:174:LYS:HZ3	1.85	0.41
50:DF:25:LEU:HD11	58:DQ:57:LEU:HD12	2.02	0.41
50:DF:65:ARG:HD2	50:DF:65:ARG:N	2.36	0.41
50:DF:68:ILE:HD11	50:DF:73:THR:OG1	2.21	0.41
50:DF:114:ILE:O	50:DF:117:THR:OG1	2.31	0.41
50:DF:165:LEU:CD1	50:DF:169:ASN:HD21	2.34	0.41
51:DG:25:ARG:HA	51:DG:28:PHE:CD2	2.56	0.41
51:DG:121:LEU:HD23	51:DG:121:LEU:HA	1.84	0.41
53:DI:77:ARG:O	53:DI:104:ILE:HG23	2.20	0.41
54:DJ:49:LEU:HA	54:DJ:49:LEU:HD12	1.61	0.41
54:DJ:64:GLU:HG2	54:DJ:65:LYS:N	2.35	0.41
55:DL:57:LYS:CE	66:D3:326:G:H5"	2.50	0.41
55:DL:63:LEU:HD11	66:D3:249:U:H3	1.86	0.41
57:DO:42:VAL:HA	57:DO:46:MET:HE1	2.03	0.41
58:DQ:12:LYS:HA	58:DQ:12:LYS:HD3	1.85	0.41
65:D2:219:U:H2'	65:D2:220:U:H6	1.86	0.41
65:D2:246:G:N3	65:D2:268:G:C2	2.89	0.41
65:D2:264:C:H2'	65:D2:265:A:C8	2.56	0.41
65:D2:450:G:H5"	65:D2:451:G:OP2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:7:G:C4	67:D4:28:A:N7	2.88	0.41
66:D3:345:U:O3'	66:D3:346:G:H8	2.04	0.41
66:D3:497:G:C4	66:D3:498:G:C8	3.09	0.41
66:D3:782:U:H5"	66:D3:783:G:N7	2.36	0.41
66:D3:784:C:H3'	66:D3:785:U:H6	1.85	0.41
66:D3:1268:G:C2	66:D3:1270:G:C4	3.09	0.41
66:D3:1268:G:O2'	66:D3:1270:G:O4'	2.39	0.41
66:D3:1690:G:H2'	66:D3:1691:A:H8	1.86	0.41
67:D4:98:U:H2'	67:D4:99:U:H6	1.86	0.41
67:D4:159:C:H2'	67:D4:160:G:C8	2.56	0.41
79:EN:792:LYS:O	79:EN:796:GLU:N	2.49	0.41
1:CA:246:GLN:N	1:CA:246:GLN:OE1	2.54	0.41
2:DA:115:ARG:HB2	2:DA:118:GLN:CD	2.46	0.41
3:JA:94:PHE:O	3:JA:97:PHE:HB3	2.20	0.41
4:UA:11:LEU:HD11	4:UA:373:ASP:O	2.20	0.41
4:UA:308:VAL:HG13	4:UA:319:PHE:HE1	1.85	0.41
4:UA:454:ASP:N	4:UA:454:ASP:OD1	2.52	0.41
4:UA:521:LEU:HA	4:UA:521:LEU:HD12	1.61	0.41
1:CB:144:TRP:NE1	1:CB:183:HIS:HB3	2.36	0.41
5:UB:440:ASN:OD1	5:UB:441:TYR:N	2.46	0.41
7:UD:122:VAL:HG23	7:UD:137:TYR:C	2.45	0.41
7:UD:157:SER:HB3	7:UD:195:TRP:CZ2	2.54	0.41
7:UD:230:LYS:NZ	65:D2:166:U:OP1	2.43	0.41
7:UD:267:PHE:CD1	7:UD:267:PHE:C	2.98	0.41
7:UD:288:THR:HG22	7:UD:295:VAL:HG23	2.03	0.41
10:UG:178:ASP:OD1	10:UG:179:HIS:ND1	2.49	0.41
10:UG:292:THR:OG1	10:UG:319:GLY:O	2.27	0.41
11:UH:636:GLN:O	11:UH:640:LEU:HG	2.21	0.41
12:UI:436:THR:HA	12:UI:439:LYS:HG2	2.02	0.41
12:UI:450:ASN:C	12:UI:453:PRO:HD2	2.46	0.41
13:UJ:384:ILE:HG12	13:UJ:407:PHE:CE2	2.56	0.41
13:UJ:588:LEU:HA	13:UJ:591:LYS:HG2	2.03	0.41
16:UM:65:THR:OG1	16:UM:79:VAL:HG13	2.21	0.41
16:UM:136:ILE:O	66:D3:1777:G:O2'	2.39	0.41
16:UM:733:ASP:CG	16:UM:775:ILE:HD12	2.46	0.41
16:UM:748:THR:HG21	34:CK:498:VAL:HG23	2.03	0.41
20:UQ:312:LEU:HB3	20:UQ:324:TRP:HB2	2.03	0.41
20:UQ:462:PHE:C	20:UQ:465:ASN:H	2.29	0.41
20:UQ:477:VAL:HG13	20:UQ:483:LYS:HZ1	1.86	0.41
20:UQ:588:ASP:CG	20:UQ:591:GLU:HB2	2.46	0.41
20:UQ:703:LYS:HE3	20:UQ:706:HIS:HE2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:UT:195:ALA:O	23:UT:198:PHE:HB3	2.21	0.41
23:UT:295:TYR:HA	23:UT:298:MET:CE	2.51	0.41
23:UT:486:PHE:O	23:UT:525:ILE:HG23	2.21	0.41
23:UT:523:LEU:HB3	23:UT:557:GLY:HA3	2.02	0.41
23:UT:796:ILE:H	23:UT:796:ILE:HD12	1.86	0.41
23:UT:797:ALA:HB1	23:UT:801:TYR:CZ	2.56	0.41
23:UT:1334:ASP:HA	23:UT:1335:GLY:HA3	1.65	0.41
23:UT:1381:LYS:NZ	23:UT:1390:SER:HB2	2.36	0.41
23:UT:1668:GLU:HG2	23:UT:1669:TYR:CD1	2.56	0.41
24:UU:66:LEU:HD23	24:UU:66:LEU:HA	1.67	0.41
24:UU:142:LYS:HA	24:UU:150:PRO:HA	2.03	0.41
24:UU:343:LEU:HG	24:UU:344:ARG:HG3	2.02	0.41
25:UV:439:HIS:HE1	25:UV:460:GLU:HB2	1.82	0.41
25:UV:547:PHE:HD1	25:UV:551:GLU:HB3	1.86	0.41
25:UV:738:TYR:CE1	25:UV:753:ILE:HD13	2.56	0.41
25:UV:945:PRO:O	25:UV:948:TYR:N	2.54	0.41
27:UZ:88:THR:O	27:UZ:94:SER:HB3	2.21	0.41
28:CD:196:LYS:HG3	28:CD:216:PHE:CE1	2.56	0.41
30:CF:113:GLN:H	30:CF:113:GLN:CD	2.28	0.41
31:CH:68:LYS:O	31:CH:69:GLN:C	2.63	0.41
31:CH:417:SER:OG	31:CH:421:ASN:N	2.54	0.41
31:CH:440:HIS:CE1	31:CH:491:SER:HG	2.35	0.41
32:CI:5:LEU:HD12	32:CI:5:LEU:O	2.20	0.41
33:CJ:28:LYS:HG2	33:CJ:46:LEU:HD21	2.03	0.41
33:CJ:118:ASN:ND2	33:CJ:118:ASN:C	2.76	0.41
35:CL:231:LYS:HE3	35:CL:231:LYS:HB2	1.93	0.41
35:CL:634:ARG:HE	35:CL:634:ARG:HB3	1.76	0.41
35:CL:823:GLY:O	35:CL:886:TYR:HD1	2.03	0.41
35:CL:833:ARG:HD3	61:DX:141:GLU:OE2	2.21	0.41
35:CL:921:GLU:OE2	36:CM:365:LYS:HD2	2.21	0.41
38:JC:160:ASN:HD21	38:JC:179:ASP:HA	1.85	0.41
38:JC:277:ILE:HA	38:JC:289:ILE:O	2.21	0.41
39:JG:105:ASN:HB2	39:JG:110:LEU:HD21	2.03	0.41
45:JN:217:ARG:HB3	45:JN:217:ARG:NH1	2.36	0.41
47:JP:108:ALA:C	47:JP:109:HIS:CG	2.99	0.41
51:DG:54:GLY:C	51:DG:110:ALA:H	2.29	0.41
52:DH:102:PRO:HG2	66:D3:810:G:N2	2.36	0.41
54:DJ:118:LEU:HA	54:DJ:118:LEU:HD23	1.81	0.41
58:DQ:91:ALA:O	58:DQ:94:GLN:HG3	2.20	0.41
60:DW:4:SER:O	66:D3:634:G:H4'	2.21	0.41
60:DW:107:SER:HA	66:D3:804:A:C5	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:D2:97:G:C2	65:D2:148:G:N3	2.89	0.41
65:D2:134:A:H2'	65:D2:135:G:O4'	2.21	0.41
65:D2:375:C:N4	65:D2:376:U:H3	2.19	0.41
65:D2:436:G:C4	65:D2:437:G:C8	3.09	0.41
66:D3:32:U:N3	66:D3:595:G:C6	2.89	0.41
66:D3:191:C:O2'	66:D3:192:U:O4'	2.31	0.41
66:D3:457:G:C4	66:D3:458:G:C8	3.09	0.41
66:D3:883:C:H1'	66:D3:946:U:O2	2.21	0.41
66:D3:1120:U:C4	66:D3:1121:C:C4	3.08	0.41
66:D3:1149:G:C6	66:D3:1642:G:C6	3.09	0.41
66:D3:1504:G:C6	66:D3:1505:A:C6	3.09	0.41
66:D3:1641:C:H2'	66:D3:1642:G:C8	2.56	0.41
67:D4:43:C:H2'	67:D4:44:U:C6	2.52	0.41
67:D4:65:C:C4	67:D4:66:U:C4	3.09	0.41
1:CA:98:ILE:H	1:CA:98:ILE:HD12	1.86	0.40
3:JA:552:ASP:O	3:JA:556:MET:HE3	2.21	0.40
3:JA:707:PRO:HB2	3:JA:709:LEU:HD23	2.03	0.40
4:UA:41:ASP:OD1	4:UA:44:ASN:HB2	2.20	0.40
4:UA:576:ARG:HB3	32:CI:142:LEU:CD2	2.48	0.40
1:CB:121:LYS:HG2	1:CB:143:VAL:HG11	2.03	0.40
1:CB:211:ALA:HB1	29:CE:145:HIS:NE2	2.35	0.40
1:CB:241:PHE:HD1	1:CB:268:VAL:CG1	2.33	0.40
5:UB:520:PRO:HG3	22:US:510:GLU:CG	2.51	0.40
6:UC:558:ASN:ND2	66:D3:546:U:O4	2.53	0.40
7:UD:347:LEU:HD23	7:UD:359:ASN:O	2.21	0.40
11:UH:592:ARG:NH1	20:UQ:603:ASN:HB2	2.35	0.40
11:UH:665:GLN:OE1	12:UI:496:LEU:HD21	2.21	0.40
13:UJ:269:PRO:HG2	21:UR:219:LYS:HG3	2.03	0.40
13:UJ:583:LYS:HE2	13:UJ:630:TYR:HD2	1.85	0.40
13:UJ:1538:LYS:HG3	13:UJ:1539:MET:HE2	2.03	0.40
13:UJ:1545:ARG:O	13:UJ:1549:VAL:HG23	2.21	0.40
13:UJ:1597:LEU:C	13:UJ:1600:PRO:HD2	2.46	0.40
14:UK:191:ASP:OD1	14:UK:192:LYS:N	2.53	0.40
15:UL:133:GLY:O	15:UL:134:THR:OG1	2.36	0.40
15:UL:181:SER:OG	15:UL:183:ASP:OD1	2.22	0.40
15:UL:251:GLN:H	15:UL:251:GLN:CD	2.29	0.40
15:UL:337:LYS:CD	15:UL:358:SER:HB3	2.50	0.40
15:UL:453:GLU:OE2	15:UL:455:GLN:NE2	2.55	0.40
15:UL:493:ALA:C	15:UL:495:LYS:H	2.28	0.40
16:UM:46:THR:O	16:UM:50:ARG:NE	2.48	0.40
16:UM:510:SER:HB3	16:UM:512:ASP:OD1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:UM:649:GLU:HG2	16:UM:650:GLN:N	2.35	0.40
16:UM:702:LEU:HD23	16:UM:702:LEU:HA	1.87	0.40
17:UN:313:PHE:CE2	17:UN:883:ILE:HB	2.56	0.40
18:UO:217:ASN:OD1	18:UO:218:VAL:N	2.52	0.40
18:UO:253:LYS:HZ2	22:US:327:MET:HE1	1.86	0.40
18:UO:462:TRP:O	18:UO:465:VAL:HG12	2.21	0.40
21:UR:155:ILE:HD13	21:UR:163:ARG:CZ	2.51	0.40
22:US:210:ASP:O	22:US:213:LEU:HG	2.22	0.40
23:UT:19:PHE:HA	23:UT:22:ARG:HE	1.86	0.40
23:UT:117:LEU:HD13	23:UT:117:LEU:HA	1.98	0.40
23:UT:232:LEU:HB2	23:UT:274:LEU:HD21	2.03	0.40
23:UT:953:LEU:O	23:UT:961:ILE:HD11	2.21	0.40
23:UT:1033:ALA:HB2	23:UT:1054:LEU:HD22	2.03	0.40
23:UT:1187:VAL:HG23	23:UT:1188:LYS:HG3	2.02	0.40
23:UT:1559:LEU:HA	23:UT:1562:VAL:HG22	2.03	0.40
23:UT:1777:LEU:HD13	23:UT:1777:LEU:HA	1.89	0.40
23:UT:1845:PHE:O	26:UX:93:LYS:NZ	2.53	0.40
25:UV:99:LYS:HD2	25:UV:100:SER:N	2.37	0.40
25:UV:715:SER:HB2	25:UV:718:LYS:HD2	2.03	0.40
25:UV:834:ASN:ND2	25:UV:837:ILE:HD11	2.35	0.40
25:UV:891:ALA:O	25:UV:895:HIS:HB2	2.21	0.40
25:UV:897:ARG:HG3	25:UV:898:THR:N	2.37	0.40
25:UV:1146:THR:OG1	25:UV:1180:ASN:ND2	2.55	0.40
28:CD:9:PHE:HE2	28:CD:11:GLU:HG3	1.86	0.40
29:CE:5:LEU:HG	29:CE:88:ILE:O	2.21	0.40
32:CI:75:GLU:OE1	32:CI:94:ILE:HG21	2.21	0.40
33:CJ:279:ARG:O	33:CJ:279:ARG:HG2	2.21	0.40
35:CL:994:LYS:HZ1	66:D3:1490:C:HO2'	1.61	0.40
39:JF:102:SER:O	39:JF:105:ASN:HB2	2.20	0.40
39:JF:104:ILE:HB	39:JF:246:GLU:CG	2.51	0.40
39:JG:22:SER:OG	39:JG:24:VAL:HG22	2.21	0.40
39:JG:52:THR:OG1	39:JG:142:VAL:HG23	2.21	0.40
42:JJ:155:GLY:O	42:JJ:158:PHE:HB3	2.21	0.40
47:JP:69:GLY:HA2	47:JP:368:ASP:O	2.21	0.40
49:DE:87:MET:HE1	49:DE:123:LEU:O	2.20	0.40
52:DH:141:ARG:HB2	60:DW:51:GLU:OE1	2.21	0.40
54:DJ:121:SER:O	54:DJ:122:VAL:C	2.65	0.40
56:DN:25:TRP:HA	56:DN:27:LYS:HZ2	1.86	0.40
58:DQ:45:ARG:HH11	58:DQ:45:ARG:HD2	1.77	0.40
62:DY:29:HIS:O	62:DY:29:HIS:CG	2.74	0.40
64:Dc:12:VAL:HB	64:Dc:52:ASP:OD1	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:163:G:H2'	66:D3:164:A:H8	1.86	0.40
66:D3:884:A:H2'	66:D3:885:G:C8	2.56	0.40
66:D3:925:G:C2	66:D3:926:A:C4	3.08	0.40
66:D3:1156:C:N4	66:D3:1622:G:H1	2.19	0.40
66:D3:1176:G:H2'	66:D3:1177:C:H6	1.86	0.40
66:D3:1633:A:N3	66:D3:1633:A:H2'	2.37	0.40
66:D3:1739:C:C2	66:D3:1740:A:C8	3.09	0.40
67:D4:11:U:H2'	67:D4:12:U:H6	1.83	0.40
67:D4:78:G:H2'	67:D4:79:G:C8	2.51	0.40
79:EN:889:LEU:O	79:EN:893:GLY:N	2.54	0.40
2:DA:36:SER:HB3	2:DA:41:ARG:HH22	1.85	0.40
2:DA:144:ARG:HH12	2:DA:146:GLN:HA	1.85	0.40
3:JA:70:ARG:HA	3:JA:73:ARG:CD	2.50	0.40
3:JA:70:ARG:HA	3:JA:73:ARG:HG3	2.04	0.40
3:JA:533:PHE:CE1	3:JA:579:ILE:HG13	2.55	0.40
3:JA:743:VAL:O	3:JA:762:MET:HG2	2.20	0.40
3:JA:748:ARG:HH22	3:JA:752:ASN:HD22	1.69	0.40
4:UA:415:ASP:O	4:UA:416:LEU:HD22	2.22	0.40
1:CB:117:VAL:HB	1:CB:210:MET:SD	2.61	0.40
1:CB:212:LYS:HZ1	29:CE:149:ARG:NH2	2.18	0.40
5:UB:525:MET:HE2	5:UB:550:VAL:CG1	2.51	0.40
5:UB:575:PHE:CD2	5:UB:636:LEU:HD12	2.56	0.40
6:UC:538:ARG:HB3	35:CL:150:MET:CE	2.50	0.40
7:UD:30:ARG:HD2	11:UH:720:TYR:HE1	1.86	0.40
7:UD:127:ASP:O	7:UD:131:GLY:N	2.47	0.40
7:UD:427:ASN:HB2	7:UD:444:ARG:NE	2.36	0.40
7:UD:466:ASP:OD1	7:UD:467:ASN:N	2.54	0.40
7:UD:495:VAL:O	7:UD:510:GLU:HG2	2.21	0.40
8:UE:453:LEU:HA	8:UE:456:VAL:HG22	2.04	0.40
10:UG:373:PHE:CZ	10:UG:392:VAL:HG21	2.54	0.40
10:UG:553:PHE:HE1	25:UV:791:LYS:O	2.04	0.40
13:UJ:23:LYS:HE3	13:UJ:23:LYS:HB3	1.89	0.40
13:UJ:160:LEU:HA	29:CE:412:VAL:HG22	2.03	0.40
13:UJ:1597:LEU:O	13:UJ:1601:VAL:HG22	2.21	0.40
14:UK:244:TRP:CD1	30:CF:31:ARG:NH2	2.89	0.40
15:UL:560:LEU:HD23	15:UL:560:LEU:HA	1.92	0.40
15:UL:618:ILE:O	15:UL:619:MET:HE2	2.21	0.40
16:UM:74:GLN:NE2	16:UM:75:TYR:CD2	2.89	0.40
16:UM:618:ASN:ND2	16:UM:637:ALA:HB3	2.37	0.40
21:UR:244:SER:HB3	21:UR:282:ASN:O	2.20	0.40
21:UR:448:LYS:HG2	21:UR:449:ASP:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:US:445:PRO:HG2	22:US:460:ASP:HB2	2.03	0.40
23:UT:498:ILE:HD12	23:UT:501:LEU:HB2	2.03	0.40
23:UT:649:PHE:CE2	23:UT:691:LYS:HD2	2.56	0.40
23:UT:974:TYR:HA	23:UT:1028:TYR:CD2	2.57	0.40
23:UT:997:MET:HB3	23:UT:1054:LEU:HD11	2.02	0.40
23:UT:1224:LEU:HD23	23:UT:1224:LEU:HA	1.92	0.40
23:UT:1285:THR:HG21	23:UT:1308:LEU:HB3	2.02	0.40
23:UT:1715:SER:HB3	23:UT:1719:LYS:NZ	2.36	0.40
23:UT:1811:ILE:HD12	23:UT:1811:ILE:HA	1.86	0.40
24:UU:263:HIS:NE2	24:UU:284:ILE:HD11	2.36	0.40
24:UU:833:LEU:O	24:UU:836:THR:OG1	2.33	0.40
24:UU:848:GLU:HA	24:UU:851:SER:OG	2.21	0.40
25:UV:218:ASP:O	25:UV:223:ARG:HB2	2.20	0.40
25:UV:902:ILE:O	25:UV:905:SER:HB3	2.21	0.40
25:UV:909:TYR:O	25:UV:913:VAL:HG12	2.21	0.40
28:CD:371:ASN:O	28:CD:375:ILE:HG12	2.22	0.40
29:CE:37:LYS:HD2	29:CE:38:VAL:N	2.36	0.40
29:CE:116:ILE:HD12	29:CE:116:ILE:H	1.85	0.40
29:CE:185:LYS:HA	29:CE:205:TYR:OH	2.21	0.40
31:CH:369:LEU:O	31:CH:373:MET:HG2	2.21	0.40
31:CH:457:GLU:OE2	31:CH:461:LYS:HE3	2.22	0.40
31:CH:487:PHE:HZ	31:CH:508:PHE:CD2	2.39	0.40
34:CK:341:LEU:HD21	35:CL:957:GLU:HA	2.03	0.40
35:CL:565:ARG:HA	35:CL:568:ARG:CD	2.52	0.40
38:JC:99:ALA:O	38:JC:118:GLN:NE2	2.54	0.40
38:JC:288:LYS:HE3	38:JC:300:TRP:CE3	2.56	0.40
38:JC:355:PHE:CE2	51:DG:68:LEU:HD12	2.55	0.40
39:JF:132:ARG:HD2	39:JG:88:ARG:NH1	2.36	0.40
39:JF:188:ARG:HD2	39:JF:191:ASP:CG	2.45	0.40
39:JG:125:ASN:HA	39:JG:126:PRO:HD3	1.93	0.40
44:JM:175:GLU:HG2	44:JM:175:GLU:H	1.73	0.40
45:JN:234:VAL:O	45:JN:239:ARG:NH1	2.55	0.40
47:JP:314:SER:O	47:JP:317:GLY:N	2.54	0.40
49:DE:185:GLY:H	49:DE:224:ASN:HB3	1.86	0.40
50:DF:160:VAL:HG22	50:DF:161:ASP:H	1.87	0.40
56:DN:4:MET:HE2	66:D3:866:G:H4'	2.02	0.40
57:DO:78:ALA:HA	57:DO:111:ARG:O	2.21	0.40
58:DQ:40:GLU:O	58:DQ:41:PRO:C	2.65	0.40
58:DQ:44:LEU:HA	58:DQ:44:LEU:HD23	1.83	0.40
65:D2:438:U:H2'	65:D2:439:A:C8	2.56	0.40
66:D3:67:A:C6	66:D3:84:A:C8	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
66:D3:411:C:H3'	66:D3:412:A:H8	1.86	0.40
66:D3:1050:G:C4	66:D3:1069:A:N1	2.89	0.40
66:D3:1605:G:C5	66:D3:1606:C:C5	3.09	0.40
67:D4:23:U:C2	67:D4:26:C:C4	3.09	0.40
67:D4:94:A:C2	67:D4:95:A:C4	3.10	0.40
1:CA:218:ILE:HD13	1:CA:218:ILE:HG21	1.90	0.40
2:DA:241:GLY:O	2:DA:242:LYS:HD3	2.22	0.40
3:JA:771:SER:CB	3:JA:774:LEU:HG	2.50	0.40
4:UA:633:LYS:HG3	65:D2:293:U:H5	1.86	0.40
4:UA:649:GLU:OE2	4:UA:649:GLU:HA	2.21	0.40
4:UA:754:VAL:O	4:UA:758:ILE:HG12	2.20	0.40
1:CB:93:HIS:NE2	1:CB:159:LEU:O	2.52	0.40
5:UB:644:ASP:HB2	5:UB:684:ILE:HD11	2.04	0.40
7:UD:497:ILE:O	7:UD:509:GLN:HB2	2.21	0.40
7:UD:639:ASP:HB3	7:UD:642:ASN:O	2.22	0.40
8:UE:355:ASN:CG	18:UO:6:PRO:HG3	2.47	0.40
9:UF:152:LYS:HE2	9:UF:152:LYS:HB3	1.90	0.40
10:UG:445:ASP:OD1	10:UG:445:ASP:N	2.51	0.40
12:UI:423:LYS:O	12:UI:426:THR:HB	2.21	0.40
13:UJ:51:ASN:C	13:UJ:51:ASN:HD22	2.28	0.40
15:UL:14:PHE:HE2	15:UL:422:HIS:HB3	1.86	0.40
15:UL:57:GLY:HA3	15:UL:385:ILE:HD12	2.02	0.40
15:UL:398:ASP:OD2	15:UL:438:PHE:N	2.54	0.40
15:UL:604:PHE:CD1	36:CM:241:TRP:HZ3	2.40	0.40
15:UL:673:VAL:HG12	15:UL:683:ILE:HD12	2.03	0.40
15:UL:794:LEU:HD21	15:UL:801:PRO:HD3	2.03	0.40
16:UM:36:VAL:O	16:UM:37:LEU:C	2.64	0.40
16:UM:62:GLN:HB2	16:UM:80:SER:HB2	2.03	0.40
16:UM:224:ASP:N	16:UM:234:LEU:HG	2.37	0.40
16:UM:281:THR:OG1	16:UM:282:ASN:N	2.54	0.40
16:UM:362:LEU:HG	16:UM:384:TYR:HB2	2.03	0.40
18:UO:241:SER:O	18:UO:243:LYS:HG2	2.21	0.40
18:UO:244:LYS:HB3	18:UO:244:LYS:HE3	1.81	0.40
18:UO:282:LYS:HD3	18:UO:294:PHE:O	2.22	0.40
18:UO:398:SER:HB2	18:UO:434:ARG:NH2	2.28	0.40
20:UQ:26:SER:C	20:UQ:28:VAL:H	2.30	0.40
20:UQ:143:ASN:OD1	20:UQ:145:PHE:HD1	2.05	0.40
20:UQ:156:THR:HG23	20:UQ:169:GLN:HB3	2.03	0.40
20:UQ:317:TRP:NE1	20:UQ:403:ILE:O	2.45	0.40
20:UQ:397:LYS:O	20:UQ:398:HIS:ND1	2.55	0.40
21:UR:233:LEU:HD11	21:UR:552:PHE:CD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:UR:459:GLN:O	21:UR:482:LEU:HD12	2.22	0.40
22:US:363:ASP:HA	22:US:401:PHE:HE1	1.87	0.40
23:UT:838:PHE:CD2	23:UT:841:ILE:HD13	2.55	0.40
23:UT:855:MET:O	23:UT:927:ARG:HG2	2.21	0.40
23:UT:897:PHE:O	23:UT:900:GLU:HG3	2.22	0.40
23:UT:1541:MET:O	23:UT:1545:VAL:HG22	2.22	0.40
23:UT:1595:SER:C	23:UT:1597:ILE:N	2.80	0.40
24:UU:881:TYR:HD1	24:UU:884:PHE:HD2	1.68	0.40
25:UV:684:PHE:O	25:UV:688:LYS:HG2	2.21	0.40
26:UX:61:PRO:HG3	26:UX:63:TYR:CZ	2.57	0.40
30:CG:35:LYS:NZ	67:D4:254:A:N7	2.63	0.40
31:CH:150:THR:CG2	31:CH:207:ARG:HD3	2.51	0.40
31:CH:196:LEU:HG	31:CH:268:LEU:HD11	2.03	0.40
31:CH:331:LEU:HD23	31:CH:483:TYR:CZ	2.56	0.40
31:CH:351:ILE:O	31:CH:354:GLU:N	2.50	0.40
31:CH:365:PRO:HG2	31:CH:366:GLN:OE1	2.21	0.40
34:CK:527:ARG:HA	34:CK:530:ARG:HD2	2.02	0.40
35:CL:40:ALA:O	35:CL:44:GLN:OE1	2.39	0.40
35:CL:143:ASP:HB3	35:CL:146:PHE:O	2.22	0.40
35:CL:1007:TYR:CG	35:CL:1008:PRO:HD2	2.56	0.40
36:CM:138:MET:HB2	36:CM:139:PRO:HD3	2.03	0.40
37:CN:23:HIS:CD2	37:CN:25:ALA:HB3	2.57	0.40
37:CN:180:LEU:HA	37:CN:180:LEU:HD12	1.81	0.40
37:CN:196:ALA:O	37:CN:200:GLU:HG2	2.21	0.40
38:JC:59:SER:HB2	38:JC:332:ALA:HB1	2.03	0.40
38:JC:205:GLU:HG2	38:JC:214:ARG:HD3	2.02	0.40
42:JJ:271:LYS:HE3	42:JJ:271:LYS:HB2	1.88	0.40
49:DE:37:LYS:HD2	66:D3:297:U:H5"	2.03	0.40
49:DE:188:ASN:HB3	49:DE:191:ARG:NE	2.36	0.40
50:DF:25:LEU:CD1	58:DQ:57:LEU:HD12	2.51	0.40
50:DF:42:LEU:C	50:DF:44:ASN:H	2.28	0.40
52:DH:129:LEU:HG	52:DH:169:PHE:CD1	2.56	0.40
55:DL:67:ARG:O	55:DL:127:GLN:HB3	2.22	0.40
56:DN:109:LYS:NZ	66:D3:976:G:P	2.94	0.40
61:DX:69:ARG:O	61:DX:93:LEU:HD22	2.20	0.40
61:DX:90:ASP:OD1	61:DX:91:GLY:N	2.55	0.40
62:DY:55:VAL:HA	62:DY:75:VAL:HA	2.03	0.40
62:DY:60:PHE:CD1	62:DY:71:GLY:HA3	2.56	0.40
63:Db:65:THR:O	63:Db:67:THR:HG23	2.20	0.40
65:D2:3:G:C5	65:D2:4:C:C4	3.09	0.40
65:D2:17:A:H2'	65:D2:18:G:H8	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:D2:417:C:H2'	65:D2:418:C:C6	2.57	0.40
65:D2:427:A:C8	65:D2:428:A:H1'	2.57	0.40
66:D3:123:G:C6	66:D3:124:A:C6	3.10	0.40
66:D3:172:C:H2'	66:D3:173:A:O4'	2.22	0.40
66:D3:966:A:O2'	66:D3:967:A:H5'	2.21	0.40
66:D3:1169:G:N2	66:D3:1577:A:H61	2.20	0.40
66:D3:1713:G:H2'	66:D3:1714:A:C8	2.56	0.40
67:D4:83:A:C5	67:D4:84:U:C5	3.09	0.40
1:CA:89:GLU:OE1	44:JM:144:PRO:HG3	2.20	0.40
1:CA:204:GLY:O	1:CA:208:ILE:HG12	2.22	0.40
3:JA:86:ARG:NH1	3:JA:90:GLU:O	2.38	0.40
4:UA:617:VAL:HG11	4:UA:681:VAL:CG2	2.51	0.40
1:CB:176:ALA:C	1:CB:178:GLY:H	2.30	0.40
5:UB:514:TYR:OH	5:UB:516:LEU:HD13	2.21	0.40
5:UB:640:MET:HE2	5:UB:640:MET:HB2	1.91	0.40
7:UD:34:HIS:NE2	7:UD:751:GLU:OE1	2.44	0.40
7:UD:161:ASP:C	7:UD:163:GLY:N	2.79	0.40
7:UD:376:GLU:HA	7:UD:377:PRO:HD3	1.91	0.40
7:UD:452:HIS:HB2	7:UD:465:LEU:HD11	2.04	0.40
8:UE:107:ILE:HD13	8:UE:107:ILE:HA	1.94	0.40
9:UF:163:SER:O	9:UF:167:ILE:HG12	2.21	0.40
10:UG:334:ARG:NH2	10:UG:337:HIS:CG	2.90	0.40
10:UG:465:ASP:O	10:UG:469:THR:HG23	2.22	0.40
11:UH:666:VAL:O	11:UH:670:GLU:OE1	2.38	0.40
12:UI:486:LEU:O	12:UI:490:GLU:OE1	2.39	0.40
13:UJ:279:MET:HE1	13:UJ:319:ILE:CG2	2.52	0.40
13:UJ:572:ARG:NH1	13:UJ:669:VAL:HB	2.37	0.40
13:UJ:585:ILE:HA	13:UJ:585:ILE:HD13	1.96	0.40
13:UJ:1404:PHE:CE2	13:UJ:1425:VAL:HG21	2.57	0.40
14:UK:200:GLN:HA	14:UK:203:GLN:HE22	1.86	0.40
15:UL:180:THR:HG22	15:UL:186:ILE:CD1	2.51	0.40
15:UL:285:ARG:O	15:UL:327:HIS:HB3	2.22	0.40
15:UL:392:THR:HG23	15:UL:409:ALA:HB1	2.04	0.40
15:UL:414:LEU:HD11	15:UL:445:VAL:HG21	2.03	0.40
15:UL:569:LEU:HD23	15:UL:600:TRP:CD2	2.56	0.40
18:UO:123:SER:HB3	18:UO:150:ARG:CZ	2.52	0.40
18:UO:211:HIS:HE2	18:UO:230:GLY:C	2.28	0.40
20:UQ:89:VAL:HG12	20:UQ:110:PHE:O	2.21	0.40
20:UQ:501:THR:CG2	20:UQ:506:TRP:HB2	2.51	0.40
20:UQ:598:LYS:HZ3	20:UQ:636:ASP:HA	1.86	0.40
20:UQ:624:HIS:C	20:UQ:630:LEU:HD12	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:UQ:664:LEU:H	20:UQ:664:LEU:HD23	1.86	0.40
20:UQ:865:LYS:HE3	20:UQ:895:LEU:O	2.20	0.40
21:UR:255:SER:O	21:UR:263:LEU:HD12	2.22	0.40
21:UR:257:HIS:HD1	21:UR:260:LYS:N	2.19	0.40
23:UT:181:LEU:O	23:UT:189:SER:OG	2.27	0.40
23:UT:412:ASN:O	23:UT:415:LYS:HG2	2.21	0.40
23:UT:434:LEU:HD13	23:UT:757:ILE:HG13	2.02	0.40
23:UT:476:LEU:HA	23:UT:479:ILE:HG12	2.03	0.40
23:UT:1097:GLU:HG2	66:D3:198:A:N3	2.36	0.40
23:UT:1591:TYR:OH	23:UT:1616:LEU:HD21	2.20	0.40
23:UT:1710:LEU:HD13	23:UT:1760:ASN:ND2	2.36	0.40
23:UT:1877:ARG:O	23:UT:1880:ILE:HG22	2.21	0.40
24:UU:843:ALA:O	24:UU:847:LEU:HB2	2.21	0.40
25:UV:214:PHE:HE2	25:UV:299:PRO:HD2	1.85	0.40
25:UV:337:LEU:HG	25:UV:474:VAL:HG12	2.03	0.40
25:UV:400:LEU:HD12	25:UV:403:GLY:O	2.21	0.40
26:UX:136:TYR:HD2	26:UX:139:ASP:OD1	2.04	0.40
27:UZ:75:ILE:HA	27:UZ:101:ILE:O	2.22	0.40
27:UZ:135:LEU:O	27:UZ:138:VAL:HG22	2.22	0.40
27:UZ:231:GLN:OE1	48:JQ:189:PRO:HA	2.21	0.40
28:CD:119:ILE:HD11	47:JP:155:TYR:CD1	2.46	0.40
28:CD:181:LEU:HD12	28:CD:292:LEU:HD13	2.03	0.40
31:CH:467:LYS:HD3	31:CH:470:LEU:HD23	2.04	0.40
32:CI:9:GLU:O	32:CI:13:LEU:HG	2.21	0.40
32:CI:145:ASP:C	32:CI:147:ALA:N	2.80	0.40
33:CJ:21:GLN:HA	33:CJ:21:GLN:OE1	2.21	0.40
34:CK:470:GLU:HB2	34:CK:488:SER:OG	2.21	0.40
35:CL:78:PRO:HA	35:CL:82:LYS:HE3	2.03	0.40
35:CL:557:ASN:OD1	35:CL:557:ASN:N	2.52	0.40
35:CL:951:MET:C	35:CL:952:PHE:CD2	2.99	0.40
36:CM:285:LYS:HE3	36:CM:291:ARG:HD3	2.02	0.40
37:CN:15:VAL:HA	37:CN:37:MET:O	2.21	0.40
37:CN:51:ASP:O	37:CN:127:LYS:HD3	2.21	0.40
38:JC:276:LYS:HD3	38:JC:276:LYS:HA	1.85	0.40
38:JC:300:TRP:HD1	38:JC:306:LYS:C	2.29	0.40
42:JJ:204:ARG:NH1	42:JJ:253:GLY:HA2	2.36	0.40
45:JN:290:SER:OG	45:JN:291:ILE:N	2.54	0.40
47:JP:75:LYS:HD3	47:JP:356:TYR:O	2.21	0.40
47:JP:390:GLU:OE2	67:D4:36:C:C4	2.74	0.40
49:DE:77:ARG:HD3	49:DE:77:ARG:HA	1.85	0.40
49:DE:160:VAL:HG23	49:DE:172:PHE:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:DG:12:SER:OG	51:DG:124:LEU:HD12	2.20	0.40
51:DG:51:LYS:N	51:DG:112:VAL:O	2.50	0.40
51:DG:87:ARG:HA	51:DG:87:ARG:NE	2.36	0.40
51:DG:122:GLU:HA	51:DG:126:ASP:OD2	2.22	0.40
51:DG:215:ARG:HG3	51:DG:216:LEU:N	2.37	0.40
56:DN:16:ILE:HG22	56:DN:17:PRO:O	2.20	0.40
57:DO:32:ASP:OD1	57:DO:37:GLU:HB2	2.21	0.40
66:D3:86:A:H2'	66:D3:87:C:C6	2.56	0.40
66:D3:397:A:C4	66:D3:398:G:C8	3.10	0.40
66:D3:457:G:N3	66:D3:458:G:C8	2.90	0.40
66:D3:529:A:H2'	66:D3:530:C:C6	2.56	0.40
66:D3:839:U:H2'	66:D3:840:U:C6	2.57	0.40
66:D3:1048:G:H2'	66:D3:1049:U:H6	1.86	0.40
66:D3:1069:A:C5	66:D3:1070:C:C4	3.09	0.40
66:D3:1132:A:O2'	66:D3:1133:A:O5'	2.37	0.40
66:D3:1532:U:H2'	66:D3:1533:C:H6	1.86	0.40
66:D3:1665:U:O2'	66:D3:1666:U:H5'	2.21	0.40
1:CA:115:GLU:N	1:CA:115:GLU:OE2	2.55	0.40
1:CA:153:ALA:HB1	1:CA:309:TYR:HD1	1.87	0.40
3:JA:480:ASP:OD2	3:JA:483:GLU:N	2.52	0.40
3:JA:825:LEU:HB3	3:JA:870:LYS:HB3	2.04	0.40
4:UA:254:HIS:HB3	4:UA:292:PHE:CE2	2.56	0.40
4:UA:398:ARG:C	4:UA:400:GLN:H	2.30	0.40
4:UA:726:THR:HG21	4:UA:750:LEU:HD21	2.03	0.40
7:UD:773:LYS:O	7:UD:775:VAL:HG13	2.22	0.40
8:UE:122:SER:C	8:UE:124:ASP:H	2.29	0.40
10:UG:302:ASP:HB2	10:UG:309:LEU:HG	2.03	0.40
10:UG:339:THR:C	10:UG:340:LEU:HD12	2.47	0.40
10:UG:417:ASN:OD1	10:UG:417:ASN:C	2.65	0.40
10:UG:538:ILE:HG22	10:UG:542:HIS:CG	2.57	0.40
11:UH:531:LEU:HD23	11:UH:531:LEU:H	1.87	0.40
12:UI:487:ARG:NE	12:UI:487:ARG:HA	2.37	0.40
13:UJ:236:PRO:O	13:UJ:237:ILE:C	2.64	0.40
13:UJ:611:ILE:HB	13:UJ:660:LEU:HD23	2.03	0.40
13:UJ:680:TYR:CD2	13:UJ:681:ALA:N	2.90	0.40
13:UJ:694:HIS:HA	13:UJ:697:GLU:OE1	2.22	0.40
13:UJ:720:LEU:HA	13:UJ:723:LEU:HG	2.03	0.40
13:UJ:1459:ARG:O	13:UJ:1463:THR:HG23	2.22	0.40
13:UJ:1510:PHE:O	13:UJ:1513:ILE:C	2.64	0.40
13:UJ:1615:ASN:HB3	13:UJ:1618:LEU:HB3	2.04	0.40
14:UK:20:THR:C	14:UK:22:ARG:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:UK:98:LEU:O	14:UK:102:GLN:HG3	2.21	0.40
15:UL:536:CYS:SG	15:UL:537:VAL:N	2.94	0.40
16:UM:170:GLY:HA2	16:UM:189:HIS:HB2	2.02	0.40
16:UM:385:GLU:OE1	16:UM:385:GLU:N	2.54	0.40
16:UM:619:ARG:O	16:UM:620:LEU:HD22	2.21	0.40
16:UM:702:LEU:O	16:UM:706:ARG:HG2	2.22	0.40
18:UO:257:CYS:O	18:UO:274:ALA:HA	2.22	0.40
18:UO:279:GLY:CA	18:UO:298:PHE:H	2.34	0.40
18:UO:471:GLY:O	18:UO:475:GLU:HG2	2.21	0.40
20:UQ:48:PHE:HE2	20:UQ:53:LYS:NZ	2.19	0.40
20:UQ:697:PHE:CD1	20:UQ:723:VAL:HG21	2.55	0.40
20:UQ:719:ASN:O	20:UQ:746:PHE:N	2.44	0.40
21:UR:26:VAL:HG13	21:UR:27:PHE:CD1	2.56	0.40
21:UR:557:THR:OG1	21:UR:558:SER:N	2.52	0.40
22:US:350:MET:CA	22:US:355:ARG:NH1	2.84	0.40
23:UT:562:VAL:HA	23:UT:565:LEU:HG	2.03	0.40
23:UT:695:LEU:O	23:UT:698:LYS:HG2	2.22	0.40
24:UU:342:TYR:CZ	24:UU:343:LEU:O	2.75	0.40
25:UV:820:THR:HG22	25:UV:845:PRO:HG3	2.02	0.40
25:UV:936:LEU:O	25:UV:939:ILE:HG22	2.22	0.40
25:UV:955:GLU:OE2	25:UV:959:LEU:HD12	2.22	0.40
25:UV:1190:PHE:HA	25:UV:1194:HIS:HE1	1.85	0.40
28:CD:406:LYS:HG3	28:CD:410:GLN:OE1	2.21	0.40
32:CI:22:LYS:HZ1	65:D2:388:C:P	2.43	0.40
34:CK:327:LYS:HG2	34:CK:328:GLY:H	1.87	0.40
34:CK:470:GLU:CA	34:CK:490:LEU:HD23	2.51	0.40
35:CL:242:PRO:HB3	35:CL:278:THR:O	2.20	0.40
35:CL:826:LYS:HD3	35:CL:926:ILE:HG21	2.02	0.40
35:CL:1039:ARG:NE	35:CL:1046:THR:HG22	2.37	0.40
36:CM:335:THR:CG2	36:CM:354:ILE:HD11	2.51	0.40
37:CN:7:SER:HB2	37:CN:149:ALA:HB2	2.03	0.40
37:CN:85:GLU:N	37:CN:127:LYS:O	2.35	0.40
38:JC:200:GLU:CG	38:JC:230:GLN:HG3	2.51	0.40
38:JC:241:LEU:O	38:JC:257:LEU:HD13	2.22	0.40
42:JJ:226:LEU:HD23	42:JJ:226:LEU:H	1.86	0.40
45:JN:292:LYS:HB3	45:JN:292:LYS:HE2	1.80	0.40
47:JP:284:HIS:CD2	47:JP:306:SER:C	3.00	0.40
52:DH:33:GLU:HG3	52:DH:37:GLU:HG2	2.02	0.40
52:DH:62:VAL:HG21	52:DH:70:PHE:CE2	2.56	0.40
52:DH:72:LYS:HB3	52:DH:73:VAL:HG13	2.03	0.40
53:DI:74:LYS:HD2	53:DI:74:LYS:HA	1.81	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:DL:125:VAL:HG12	55:DL:139:VAL:HA	2.03	0.40
56:DN:106:ARG:O	56:DN:107:LYS:HE2	2.21	0.40
56:DN:117:LEU:HA	56:DN:117:LEU:HD23	1.89	0.40
57:DO:83:ILE:HG22	57:DO:116:GLU:O	2.22	0.40
58:DQ:4:VAL:HA	58:DQ:5:PRO:HD2	1.95	0.40
65:D2:145:A:C2	65:D2:146:G:C4	3.10	0.40
65:D2:148:G:C2	65:D2:149:U:C2	3.09	0.40
65:D2:149:U:H5"	65:D2:150:G:H5"	2.04	0.40
65:D2:263:C:H2'	65:D2:264:C:C6	2.56	0.40
65:D2:405:A:C2	65:D2:452:A:C4	3.10	0.40
66:D3:778:G:H5"	66:D3:780:A:N7	2.36	0.40
66:D3:871:G:N2	66:D3:872:G:C2	2.89	0.40
66:D3:873:U:C4	66:D3:874:C:N4	2.89	0.40
66:D3:972:G:C6	66:D3:973:A:C6	3.10	0.40
66:D3:1165:G:C6	66:D3:1166:A:C6	3.10	0.40
66:D3:1495:C:C2	66:D3:1513:G:N2	2.90	0.40
78:EK:626:VAL:HA	78:EK:640:ASN:O	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	CA	238/327 (73%)	207 (87%)	31 (13%)	0	100	100
1	CB	224/327 (68%)	201 (90%)	23 (10%)	0	100	100
2	DA	236/255 (92%)	212 (90%)	24 (10%)	0	100	100
3	JA	802/1056 (76%)	734 (92%)	68 (8%)	0	100	100
3	JB	827/1056 (78%)	770 (93%)	57 (7%)	0	100	100
4	UA	830/923 (90%)	733 (88%)	97 (12%)	0	100	100
5	UB	495/810 (61%)	465 (94%)	30 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	UC	124/610 (20%)	112 (90%)	12 (10%)	0	100	100
7	UD	663/776 (85%)	575 (87%)	88 (13%)	0	100	100
8	UE	465/643 (72%)	419 (90%)	46 (10%)	0	100	100
9	UF	283/440 (64%)	273 (96%)	10 (4%)	0	100	100
10	UG	529/554 (96%)	461 (87%)	68 (13%)	0	100	100
11	UH	426/713 (60%)	375 (88%)	46 (11%)	5 (1%)	11	44
12	UI	100/575 (17%)	98 (98%)	2 (2%)	0	100	100
13	UJ	1092/1769 (62%)	1031 (94%)	61 (6%)	0	100	100
14	UK	238/250 (95%)	214 (90%)	24 (10%)	0	100	100
15	UL	828/943 (88%)	733 (88%)	95 (12%)	0	100	100
16	UM	750/817 (92%)	662 (88%)	87 (12%)	1 (0%)	48	83
17	UN	143/899 (16%)	124 (87%)	19 (13%)	0	100	100
18	UO	489/513 (95%)	432 (88%)	57 (12%)	0	100	100
19	UP	58/214 (27%)	54 (93%)	4 (7%)	0	100	100
20	UQ	820/896 (92%)	735 (90%)	85 (10%)	0	100	100
21	UR	474/594 (80%)	424 (90%)	50 (10%)	0	100	100
22	US	488/552 (88%)	440 (90%)	48 (10%)	0	100	100
23	UT	2213/2493 (89%)	2072 (94%)	141 (6%)	0	100	100
24	UU	842/939 (90%)	755 (90%)	87 (10%)	0	100	100
25	UV	1069/1237 (86%)	1018 (95%)	51 (5%)	0	100	100
26	UX	170/189 (90%)	150 (88%)	20 (12%)	0	100	100
27	UZ	245/274 (89%)	225 (92%)	20 (8%)	0	100	100
28	CD	376/504 (75%)	344 (92%)	32 (8%)	0	100	100
29	CE	431/511 (84%)	393 (91%)	38 (9%)	0	100	100
30	CF	121/126 (96%)	109 (90%)	12 (10%)	0	100	100
30	CG	121/126 (96%)	112 (93%)	9 (7%)	0	100	100
31	CH	459/573 (80%)	401 (87%)	57 (12%)	1 (0%)	44	78
32	CI	180/183 (98%)	157 (87%)	23 (13%)	0	100	100
33	CJ	278/290 (96%)	242 (87%)	36 (13%)	0	100	100
34	CK	203/593 (34%)	184 (91%)	18 (9%)	1 (0%)	25	64
35	CL	771/1183 (65%)	716 (93%)	54 (7%)	1 (0%)	48	83

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
36	CM	358/367 (98%)	335 (94%)	23 (6%)	0	100	100
37	CN	224/297 (75%)	211 (94%)	13 (6%)	0	100	100
38	JC	350/707 (50%)	316 (90%)	34 (10%)	0	100	100
39	JF	212/252 (84%)	203 (96%)	9 (4%)	0	100	100
39	JG	226/252 (90%)	217 (96%)	9 (4%)	0	100	100
40	JH	257/483 (53%)	243 (95%)	14 (5%)	0	100	100
41	JI	263/1729 (15%)	257 (98%)	6 (2%)	0	100	100
42	JJ	180/274 (66%)	172 (96%)	8 (4%)	0	100	100
43	JK	40/534 (8%)	31 (78%)	9 (22%)	0	100	100
44	JM	129/217 (59%)	121 (94%)	8 (6%)	0	100	100
45	JN	178/346 (51%)	160 (90%)	18 (10%)	0	100	100
46	JO	226/316 (72%)	214 (95%)	12 (5%)	0	100	100
47	JP	457/489 (94%)	392 (86%)	65 (14%)	0	100	100
48	JQ	59/206 (29%)	53 (90%)	6 (10%)	0	100	100
49	DE	243/261 (93%)	218 (90%)	25 (10%)	0	100	100
50	DF	211/225 (94%)	189 (90%)	22 (10%)	0	100	100
51	DG	216/236 (92%)	203 (94%)	13 (6%)	0	100	100
52	DH	182/190 (96%)	165 (91%)	17 (9%)	0	100	100
53	DI	173/200 (86%)	160 (92%)	13 (8%)	0	100	100
54	DJ	183/197 (93%)	154 (84%)	29 (16%)	0	100	100
55	DL	138/156 (88%)	124 (90%)	14 (10%)	0	100	100
56	DN	148/151 (98%)	140 (95%)	8 (5%)	0	100	100
57	DO	118/137 (86%)	107 (91%)	11 (9%)	0	100	100
58	DQ	123/143 (86%)	109 (89%)	14 (11%)	0	100	100
59	DS	98/146 (67%)	91 (93%)	7 (7%)	0	100	100
60	DW	127/130 (98%)	110 (87%)	17 (13%)	0	100	100
61	DX	101/145 (70%)	79 (78%)	21 (21%)	1 (1%)	13	48
62	DY	132/135 (98%)	121 (92%)	11 (8%)	0	100	100
63	Db	79/82 (96%)	67 (85%)	12 (15%)	0	100	100
64	Dc	61/67 (91%)	53 (87%)	8 (13%)	0	100	100
69	EB	297/305 (97%)	274 (92%)	21 (7%)	2 (1%)	19	56

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
70	EC	242/246 (98%)	225 (93%)	17 (7%)	0	100	100
71	ED	308/394 (78%)	283 (92%)	24 (8%)	1 (0%)	37	72
72	EE	222/223 (100%)	209 (94%)	13 (6%)	0	100	100
73	EF	266/267 (100%)	252 (95%)	14 (5%)	0	100	100
74	EG	209/250 (84%)	192 (92%)	17 (8%)	0	100	100
75	EH	235/240 (98%)	216 (92%)	19 (8%)	0	100	100
76	EI	287/359 (80%)	263 (92%)	24 (8%)	0	100	100
77	EJ	214/292 (73%)	198 (92%)	16 (8%)	0	100	100
78	EK	965/1001 (96%)	939 (97%)	25 (3%)	1 (0%)	48	83
79	EN	960/1073 (90%)	890 (93%)	66 (7%)	4 (0%)	30	68
All	All	28798/39453 (73%)	26318 (91%)	2462 (8%)	18 (0%)	50	83

All (18) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
11	UH	258	PRO
31	CH	438	ILE
34	CK	454	VAL
79	EN	615	VAL
79	EN	617	SER
11	UH	235	PRO
61	DX	90	ASP
11	UH	309	PRO
11	UH	533	PRO
35	CL	208	SER
11	UH	257	SER
69	EB	181	GLU
69	EB	182	ARG
79	EN	873	SER
16	UM	420	ASN
71	ED	337	GLU
78	EK	68	PRO
79	EN	616	ILE

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM

entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	CA	202/240 (84%)	202 (100%)	0	100	100
1	CB	192/240 (80%)	191 (100%)	1 (0%)	86	89
2	DA	212/224 (95%)	212 (100%)	0	100	100
3	JA	555/934 (59%)	555 (100%)	0	100	100
4	UA	730/812 (90%)	730 (100%)	0	100	100
5	UB	344/732 (47%)	344 (100%)	0	100	100
6	UC	107/538 (20%)	107 (100%)	0	100	100
7	UD	615/713 (86%)	613 (100%)	2 (0%)	91	91
8	UE	428/574 (75%)	428 (100%)	0	100	100
9	UF	277/414 (67%)	277 (100%)	0	100	100
10	UG	462/480 (96%)	462 (100%)	0	100	100
11	UH	152/657 (23%)	152 (100%)	0	100	100
12	UI	99/533 (19%)	99 (100%)	0	100	100
13	UJ	1031/1633 (63%)	1031 (100%)	0	100	100
14	UK	226/234 (97%)	226 (100%)	0	100	100
15	UL	747/832 (90%)	747 (100%)	0	100	100
16	UM	668/719 (93%)	668 (100%)	0	100	100
17	UN	137/808 (17%)	137 (100%)	0	100	100
18	UO	437/454 (96%)	437 (100%)	0	100	100
19	UP	57/196 (29%)	57 (100%)	0	100	100
20	UQ	769/826 (93%)	768 (100%)	1 (0%)	92	94
21	UR	425/529 (80%)	425 (100%)	0	100	100
22	US	332/506 (66%)	332 (100%)	0	100	100
23	UT	1787/2307 (78%)	1787 (100%)	0	100	100
24	UU	743/819 (91%)	743 (100%)	0	100	100
25	UV	986/1125 (88%)	986 (100%)	0	100	100
26	UX	156/169 (92%)	156 (100%)	0	100	100
27	UZ	230/256 (90%)	230 (100%)	0	100	100
28	CD	326/435 (75%)	326 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
29	CE	353/433 (82%)	353 (100%)	0	100	100
30	CF	102/104 (98%)	102 (100%)	0	100	100
30	CG	101/104 (97%)	101 (100%)	0	100	100
31	CH	406/503 (81%)	406 (100%)	0	100	100
32	CI	171/172 (99%)	171 (100%)	0	100	100
33	CJ	251/258 (97%)	250 (100%)	1 (0%)	89	90
34	CK	187/535 (35%)	187 (100%)	0	100	100
35	CL	690/1039 (66%)	684 (99%)	6 (1%)	75	83
36	CM	307/312 (98%)	307 (100%)	0	100	100
37	CN	212/274 (77%)	212 (100%)	0	100	100
38	JC	318/636 (50%)	318 (100%)	0	100	100
39	JF	195/222 (88%)	195 (100%)	0	100	100
39	JG	206/222 (93%)	206 (100%)	0	100	100
42	JJ	158/238 (66%)	158 (100%)	0	100	100
43	JK	35/482 (7%)	35 (100%)	0	100	100
44	JM	124/200 (62%)	124 (100%)	0	100	100
45	JN	141/304 (46%)	141 (100%)	0	100	100
46	JO	210/289 (73%)	210 (100%)	0	100	100
47	JP	416/443 (94%)	416 (100%)	0	100	100
48	JQ	22/192 (12%)	22 (100%)	0	100	100
49	DE	209/222 (94%)	209 (100%)	0	100	100
50	DF	180/191 (94%)	180 (100%)	0	100	100
51	DG	187/201 (93%)	187 (100%)	0	100	100
52	DH	165/170 (97%)	165 (100%)	0	100	100
53	DI	142/161 (88%)	142 (100%)	0	100	100
54	DJ	158/166 (95%)	158 (100%)	0	100	100
55	DL	125/137 (91%)	125 (100%)	0	100	100
56	DN	127/128 (99%)	127 (100%)	0	100	100
57	DO	91/105 (87%)	91 (100%)	0	100	100
58	DQ	105/119 (88%)	105 (100%)	0	100	100
60	DW	110/111 (99%)	110 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
61	DX	85/120 (71%)	85 (100%)	0	100 100
62	DY	112/113 (99%)	112 (100%)	0	100 100
63	Db	70/71 (99%)	70 (100%)	0	100 100
64	Dc	56/60 (93%)	56 (100%)	0	100 100
All	All	19959/27976 (71%)	19948 (100%)	11 (0%)	92 94

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	CB	303	GLN
7	UD	53	HIS
7	UD	689	ASN
20	UQ	704	ASN
33	CJ	118	ASN
35	CL	82	LYS
35	CL	119	GLU
35	CL	173	HIS
35	CL	175	ASP
35	CL	208	SER
35	CL	215	TYR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (254) such sidechains are listed below:

Mol	Chain	Res	Type
1	CA	93	HIS
1	CA	249	GLN
1	CA	256	ASN
2	DA	146	GLN
2	DA	148	ASN
2	DA	149	GLN
2	DA	208	GLN
2	DA	211	HIS
3	JA	16	ASN
3	JA	75	ASN
3	JA	89	ASN
3	JA	487	ASN
3	JA	587	GLN
3	JA	641	ASN
3	JA	718	HIS
3	JA	734	HIS

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Mol	Chain	Res	Type
4	UA	88	ASN
4	UA	128	ASN
4	UA	303	ASN
4	UA	342	GLN
4	UA	349	ASN
4	UA	434	ASN
4	UA	795	ASN
1	CB	226	HIS
1	CB	274	ASN
5	UB	446	GLN
5	UB	453	ASN
5	UB	479	ASN
5	UB	658	ASN
5	UB	666	GLN
5	UB	705	HIS
7	UD	53	HIS
7	UD	56	ASN
7	UD	306	GLN
7	UD	315	GLN
7	UD	467	ASN
7	UD	533	HIS
7	UD	574	HIS
7	UD	595	ASN
7	UD	632	ASN
7	UD	689	ASN
7	UD	766	GLN
8	UE	168	HIS
8	UE	293	ASN
8	UE	493	HIS
9	UF	166	ASN
9	UF	169	GLN
9	UF	191	ASN
9	UF	289	HIS
9	UF	340	GLN
10	UG	115	HIS
10	UG	248	HIS
10	UG	337	HIS
10	UG	410	ASN
10	UG	494	ASN
10	UG	531	HIS
12	UI	429	HIS
13	UJ	10	GLN

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Mol	Chain	Res	Type
13	UJ	141	ASN
13	UJ	209	GLN
13	UJ	304	GLN
13	UJ	715	HIS
13	UJ	747	GLN
13	UJ	808	GLN
13	UJ	1677	ASN
14	UK	45	GLN
14	UK	65	HIS
14	UK	200	GLN
14	UK	204	HIS
14	UK	213	GLN
14	UK	247	GLN
15	UL	88	HIS
15	UL	195	GLN
15	UL	330	GLN
15	UL	403	ASN
15	UL	629	ASN
15	UL	879	GLN
15	UL	901	ASN
15	UL	916	HIS
16	UM	54	HIS
16	UM	89	HIS
16	UM	241	GLN
16	UM	268	GLN
16	UM	328	GLN
16	UM	387	HIS
16	UM	418	ASN
16	UM	433	HIS
16	UM	532	HIS
16	UM	585	ASN
16	UM	665	GLN
16	UM	732	ASN
16	UM	792	HIS
17	UN	299	ASN
17	UN	339	GLN
17	UN	832	ASN
18	UO	50	GLN
18	UO	233	ASN
18	UO	269	GLN
18	UO	280	HIS
18	UO	391	ASN

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Mol	Chain	Res	Type
18	UO	444	ASN
20	UQ	51	GLN
20	UQ	115	HIS
20	UQ	200	ASN
20	UQ	204	ASN
20	UQ	248	GLN
20	UQ	329	ASN
20	UQ	364	ASN
20	UQ	366	ASN
20	UQ	401	GLN
20	UQ	412	ASN
20	UQ	418	ASN
20	UQ	471	GLN
20	UQ	491	GLN
20	UQ	579	ASN
20	UQ	606	HIS
20	UQ	609	ASN
20	UQ	760	HIS
20	UQ	868	ASN
21	UR	242	ASN
21	UR	289	HIS
21	UR	307	GLN
21	UR	365	ASN
21	UR	388	HIS
21	UR	472	GLN
21	UR	513	GLN
22	US	268	GLN
22	US	282	HIS
22	US	309	ASN
22	US	321	ASN
22	US	472	HIS
23	UT	227	ASN
23	UT	248	HIS
23	UT	300	GLN
23	UT	303	ASN
23	UT	428	GLN
23	UT	492	GLN
23	UT	544	ASN
23	UT	547	ASN
23	UT	890	ASN
23	UT	962	ASN
23	UT	975	ASN

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Mol	Chain	Res	Type
23	UT	980	ASN
23	UT	1241	GLN
23	UT	1353	HIS
23	UT	1366	ASN
23	UT	1401	ASN
23	UT	1508	GLN
23	UT	1618	ASN
23	UT	1724	ASN
23	UT	1760	ASN
23	UT	1816	HIS
23	UT	1996	GLN
24	UU	263	HIS
24	UU	285	HIS
24	UU	338	GLN
24	UU	385	GLN
24	UU	387	GLN
24	UU	552	HIS
24	UU	870	GLN
25	UV	177	ASN
25	UV	226	HIS
25	UV	414	HIS
25	UV	441	GLN
25	UV	506	GLN
25	UV	834	ASN
25	UV	1026	ASN
25	UV	1073	ASN
25	UV	1221	HIS
26	UX	23	GLN
26	UX	147	GLN
27	UZ	145	HIS
27	UZ	166	GLN
27	UZ	192	ASN
28	CD	85	ASN
28	CD	170	ASN
28	CD	173	HIS
28	CD	287	GLN
28	CD	318	HIS
28	CD	334	GLN
29	CE	165	GLN
29	CE	254	ASN
29	CE	350	GLN
30	CF	19	GLN

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Mol	Chain	Res	Type
30	CF	66	HIS
31	CH	164	GLN
31	CH	195	GLN
31	CH	314	GLN
31	CH	419	ASN
31	CH	463	GLN
31	CH	465	GLN
32	CI	27	HIS
33	CJ	18	GLN
33	CJ	102	GLN
33	CJ	226	ASN
34	CK	296	ASN
34	CK	374	GLN
34	CK	480	GLN
35	CL	765	ASN
35	CL	776	GLN
35	CL	835	HIS
35	CL	1163	GLN
36	CM	220	GLN
36	CM	248	GLN
37	CN	23	HIS
37	CN	139	ASN
37	CN	151	HIS
38	JC	15	GLN
38	JC	60	ASN
38	JC	69	GLN
38	JC	126	GLN
38	JC	189	ASN
38	JC	339	HIS
39	JF	53	HIS
39	JF	115	GLN
39	JF	215	ASN
39	JF	250	ASN
39	JG	26	GLN
42	JJ	142	ASN
42	JJ	197	HIS
43	JK	469	GLN
44	JM	205	HIS
46	JO	58	ASN
47	JP	230	ASN
47	JP	281	ASN
47	JP	350	HIS

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Mol	Chain	Res	Type
47	JP	427	GLN
48	JQ	182	HIS
49	DE	67	GLN
49	DE	153	ASN
50	DF	103	ASN
50	DF	169	ASN
50	DF	200	ASN
51	DG	56	ASN
51	DG	190	GLN
51	DG	197	ASN
52	DH	5	GLN
52	DH	147	ASN
52	DH	180	GLN
53	DI	87	ASN
53	DI	94	ASN
54	DJ	131	GLN
55	DL	98	ASN
56	DN	5	HIS
56	DN	105	ASN
60	DW	15	ASN
60	DW	24	GLN
60	DW	42	GLN
60	DW	80	ASN
60	DW	120	HIS
62	DY	77	ASN
63	Db	19	HIS
63	Db	26	GLN
63	Db	42	ASN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
65	D2	443/700 (63%)	140 (31%)	4 (0%)
66	D3	1303/1808 (72%)	498 (38%)	26 (1%)
67	D4	223/333 (66%)	72 (32%)	4 (1%)
68	EA	21/22 (95%)	15 (71%)	0
All	All	1990/2863 (69%)	725 (36%)	34 (1%)

All (725) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
65	D2	6	A
65	D2	8	A
65	D2	14	U
65	D2	15	G
65	D2	17	A
65	D2	58	U
65	D2	63	G
65	D2	64	U
65	D2	66	C
65	D2	68	U
65	D2	70	A
65	D2	82	A
65	D2	83	U
65	D2	84	G
65	D2	86	C
65	D2	90	G
65	D2	98	G
65	D2	102	A
65	D2	103	G
65	D2	104	A
65	D2	108	U
65	D2	109	C
65	D2	110	G
65	D2	122	U
65	D2	124	A
65	D2	125	G
65	D2	129	U
65	D2	130	G
65	D2	141	A
65	D2	142	U
65	D2	144	C
65	D2	147	C
65	D2	149	U
65	D2	150	G
65	D2	152	U
65	D2	153	U
65	D2	154	A
65	D2	155	A
65	D2	156	U
65	D2	161	A
65	D2	162	U
65	D2	163	G
65	D2	169	A

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Mol	Chain	Res	Type
65	D2	171	G
65	D2	177	U
65	D2	181	A
65	D2	191	U
65	D2	193	G
65	D2	197	G
65	D2	198	A
65	D2	200	A
65	D2	207	G
65	D2	221	U
65	D2	226	U
65	D2	227	U
65	D2	232	U
65	D2	233	G
65	D2	234	A
65	D2	235	A
65	D2	236	C
65	D2	238	G
65	D2	239	U
65	D2	240	C
65	D2	252	A
65	D2	253	U
65	D2	254	C
65	D2	256	U
65	D2	257	G
65	D2	259	G
65	D2	261	U
65	D2	267	U
65	D2	268	G
65	D2	271	G
65	D2	277	C
65	D2	278	G
65	D2	279	A
65	D2	280	A
65	D2	281	G
65	D2	286	U
65	D2	291	G
65	D2	296	C
65	D2	297	U
65	D2	304	U
65	D2	305	A
65	D2	306	G

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Mol	Chain	Res	Type
65	D2	310	U
65	D2	311	C
65	D2	312	U
65	D2	313	A
65	D2	314	U
65	D2	315	U
65	D2	316	U
65	D2	323	A
65	D2	324	U
65	D2	325	U
65	D2	326	C
65	D2	327	A
65	D2	330	C
65	D2	333	G
65	D2	337	G
65	D2	338	A
65	D2	339	A
65	D2	340	U
65	D2	349	G
65	D2	354	G
65	D2	356	C
65	D2	365	G
65	D2	369	G
65	D2	370	U
65	D2	371	G
65	D2	372	A
65	D2	373	U
65	D2	378	C
65	D2	379	A
65	D2	381	G
65	D2	385	A
65	D2	386	A
65	D2	395	C
65	D2	396	A
65	D2	399	U
65	D2	404	G
65	D2	405	A
65	D2	406	U
65	D2	407	A
65	D2	422	C
65	D2	428	A
65	D2	430	C

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Mol	Chain	Res	Type
65	D2	431	A
65	D2	432	C
65	D2	433	C
65	D2	451	G
65	D2	456	U
65	D2	458	A
65	D2	461	A
65	D2	464	G
65	D2	481	U
65	D2	482	A
65	D2	485	G
65	D2	486	U
65	D2	487	A
66	D3	-6	A
66	D3	-5	G
66	D3	-2	A
66	D3	-1	G
66	D3	1	U
66	D3	2	A
66	D3	3	U
66	D3	4	C
66	D3	5	U
66	D3	7	G
66	D3	9	U
66	D3	16	G
66	D3	17	C
66	D3	18	C
66	D3	25	C
66	D3	26	A
66	D3	32	U
66	D3	33	U
66	D3	34	G
66	D3	35	U
66	D3	36	C
66	D3	37	U
66	D3	38	C
66	D3	39	A
66	D3	42	G
66	D3	43	A
66	D3	45	U
66	D3	46	A
66	D3	57	G

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Mol	Chain	Res	Type
66	D3	59	C
66	D3	60	U
66	D3	65	A
66	D3	68	A
66	D3	69	G
66	D3	71	A
66	D3	72	A
66	D3	73	U
66	D3	74	U
66	D3	75	U
66	D3	76	A
66	D3	77	U
66	D3	78	A
66	D3	81	G
66	D3	100	A
66	D3	103	A
66	D3	104	A
66	D3	108	A
66	D3	114	C
66	D3	118	U
66	D3	126	A
66	D3	140	A
66	D3	141	U
66	D3	145	A
66	D3	146	U
66	D3	156	A
66	D3	158	U
66	D3	159	U
66	D3	160	C
66	D3	162	A
66	D3	171	A
66	D3	176	C
66	D3	177	U
66	D3	184	C
66	D3	186	C
66	D3	187	G
66	D3	188	A
66	D3	190	C
66	D3	191	C
66	D3	193	U
66	D3	194	U
66	D3	195	G

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Mol	Chain	Res	Type
66	D3	197	A
66	D3	198	A
66	D3	199	G
66	D3	203	U
66	D3	211	U
66	D3	215	A
66	D3	216	U
66	D3	232	U
66	D3	233	C
66	D3	234	G
66	D3	237	C
66	D3	238	U
66	D3	239	C
66	D3	240	U
66	D3	243	G
66	D3	244	A
66	D3	246	G
66	D3	247	A
66	D3	249	U
66	D3	250	C
66	D3	253	A
66	D3	257	A
66	D3	263	C
66	D3	266	A
66	D3	267	U
66	D3	271	A
66	D3	273	G
66	D3	274	G
66	D3	275	C
66	D3	277	U
66	D3	278	U
66	D3	279	G
66	D3	280	U
66	D3	281	G
66	D3	282	C
66	D3	288	A
66	D3	299	A
66	D3	302	U
66	D3	303	U
66	D3	305	C
66	D3	312	A
66	D3	313	U

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Mol	Chain	Res	Type
66	D3	314	C
66	D3	315	A
66	D3	316	A
66	D3	317	C
66	D3	318	U
66	D3	320	U
66	D3	321	C
66	D3	322	G
66	D3	323	A
66	D3	324	U
66	D3	330	G
66	D3	333	A
66	D3	335	U
66	D3	336	G
66	D3	337	G
66	D3	338	C
66	D3	342	C
66	D3	344	A
66	D3	345	U
66	D3	346	G
66	D3	347	G
66	D3	350	U
66	D3	351	C
66	D3	352	A
66	D3	355	G
66	D3	359	A
66	D3	360	A
66	D3	361	C
66	D3	365	G
66	D3	366	A
66	D3	369	A
66	D3	371	G
66	D3	373	G
66	D3	378	A
66	D3	379	U
66	D3	380	U
66	D3	387	A
66	D3	388	G
66	D3	389	G
66	D3	399	A
66	D3	400	A
66	D3	401	A

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Mol	Chain	Res	Type
66	D3	402	C
66	D3	404	G
66	D3	407	A
66	D3	408	C
66	D3	413	U
66	D3	416	A
66	D3	417	A
66	D3	418	G
66	D3	419	G
66	D3	423	G
66	D3	424	C
66	D3	425	A
66	D3	426	G
66	D3	428	A
66	D3	430	G
66	D3	436	A
66	D3	437	A
66	D3	438	A
66	D3	439	U
66	D3	440	U
66	D3	441	A
66	D3	444	C
66	D3	445	A
66	D3	448	C
66	D3	457	G
66	D3	459	G
66	D3	460	A
66	D3	464	A
66	D3	467	G
66	D3	468	A
66	D3	473	A
66	D3	475	A
66	D3	477	A
66	D3	480	G
66	D3	482	U
66	D3	487	G
66	D3	488	G
66	D3	491	C
66	D3	493	U
66	D3	494	U
66	D3	496	G
66	D3	500	C

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Mol	Chain	Res	Type
66	D3	501	U
66	D3	505	A
66	D3	506	A
66	D3	507	U
66	D3	510	G
66	D3	511	A
66	D3	520	A
66	D3	525	A
66	D3	532	U
66	D3	536	C
66	D3	539	G
66	D3	540	G
66	D3	541	A
66	D3	542	A
66	D3	545	A
66	D3	546	U
66	D3	548	G
66	D3	551	G
66	D3	557	G
66	D3	561	G
66	D3	563	U
66	D3	564	G
66	D3	565	C
66	D3	566	C
66	D3	570	A
66	D3	572	C
66	D3	573	C
66	D3	574	G
66	D3	576	G
66	D3	577	G
66	D3	578	U
66	D3	579	A
66	D3	580	A
66	D3	583	C
66	D3	584	C
66	D3	585	A
66	D3	586	G
66	D3	587	C
66	D3	594	A
66	D3	595	G
66	D3	597	G
66	D3	628	G

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Mol	Chain	Res	Type
66	D3	633	U
66	D3	634	G
66	D3	635	A
66	D3	639	U
66	D3	640	U
66	D3	642	G
66	D3	648	G
66	D3	650	U
66	D3	654	C
66	D3	655	G
66	D3	656	G
66	D3	657	U
66	D3	658	C
66	D3	677	G
66	D3	678	A
66	D3	679	U
66	D3	680	U
66	D3	681	U
66	D3	682	C
66	D3	684	A
66	D3	685	A
66	D3	688	G
66	D3	692	C
66	D3	693	U
66	D3	695	U
66	D3	748	U
66	D3	751	G
66	D3	755	A
66	D3	757	A
66	D3	758	U
66	D3	761	G
66	D3	762	A
66	D3	763	G
66	D3	764	U
66	D3	765	G
66	D3	766	U
66	D3	767	U
66	D3	768	C
66	D3	769	A
66	D3	771	A
66	D3	773	C
66	D3	774	A

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Mol	Chain	Res	Type
66	D3	775	G
66	D3	776	G
66	D3	777	C
66	D3	778	G
66	D3	779	U
66	D3	780	A
66	D3	781	U
66	D3	782	U
66	D3	783	G
66	D3	786	C
66	D3	787	G
66	D3	788	A
66	D3	792	U
66	D3	793	A
66	D3	794	U
66	D3	795	U
66	D3	796	A
66	D3	802	G
66	D3	803	A
66	D3	808	U
66	D3	810	G
66	D3	819	G
66	D3	820	U
66	D3	821	U
66	D3	822	U
66	D3	826	U
66	D3	830	U
66	D3	831	U
66	D3	832	U
66	D3	834	G
66	D3	835	U
66	D3	839	U
66	D3	840	U
66	D3	841	U
66	D3	847	A
66	D3	851	U
66	D3	852	C
66	D3	853	G
66	D3	860	U
66	D3	862	A
66	D3	863	A
66	D3	865	A

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Mol	Chain	Res	Type
66	D3	873	U
66	D3	875	G
66	D3	878	G
66	D3	886	U
66	D3	898	A
66	D3	899	G
66	D3	906	A
66	D3	912	U
66	D3	913	G
66	D3	914	G
66	D3	915	A
66	D3	926	A
66	D3	931	C
66	D3	933	A
66	D3	934	C
66	D3	935	U
66	D3	937	C
66	D3	942	G
66	D3	944	A
66	D3	948	G
66	D3	956	C
66	D3	958	U
66	D3	960	U
66	D3	963	A
66	D3	964	U
66	D3	970	A
66	D3	1029	U
66	D3	1031	U
66	D3	1033	C
66	D3	1034	C
66	D3	1035	G
66	D3	1037	C
66	D3	1038	U
66	D3	1039	A
66	D3	1040	G
66	D3	1042	G
66	D3	1044	U
66	D3	1047	G
66	D3	1053	G
66	D3	1058	U
66	D3	1060	U
66	D3	1061	A

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Mol	Chain	Res	Type
66	D3	1062	A
66	D3	1063	U
66	D3	1064	G
66	D3	1072	C
66	D3	1074	G
66	D3	1076	A
66	D3	1080	U
66	D3	1081	A
66	D3	1084	A
66	D3	1113	A
66	D3	1117	U
66	D3	1118	G
66	D3	1119	G
66	D3	1122	G
66	D3	1127	G
66	D3	1128	C
66	D3	1130	G
66	D3	1133	A
66	D3	1136	U
66	D3	1143	A
66	D3	1144	U
66	D3	1145	U
66	D3	1146	G
66	D3	1157	A
66	D3	1158	C
66	D3	1159	C
66	D3	1160	A
66	D3	1175	U
66	D3	1203	A
66	D3	1204	A
66	D3	1205	C
66	D3	1207	C
66	D3	1208	A
66	D3	1214	U
66	D3	1217	A
66	D3	1218	G
66	D3	1219	A
66	D3	1267	G
66	D3	1268	G
66	D3	1269	U
66	D3	1270	G
66	D3	1434	U

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Mol	Chain	Res	Type
66	D3	1436	A
66	D3	1437	U
66	D3	1438	G
66	D3	1439	C
66	D3	1442	U
66	D3	1443	U
66	D3	1470	C
66	D3	1472	C
66	D3	1473	U
66	D3	1474	G
66	D3	1479	A
66	D3	1482	C
66	D3	1485	C
66	D3	1486	G
66	D3	1488	G
66	D3	1489	U
66	D3	1490	C
66	D3	1491	U
66	D3	1492	A
66	D3	1493	A
66	D3	1495	C
66	D3	1498	G
66	D3	1506	G
66	D3	1514	U
66	D3	1516	A
66	D3	1525	A
66	D3	1571	C
66	D3	1573	A
66	D3	1574	G
66	D3	1575	G
66	D3	1577	A
66	D3	1584	G
66	D3	1589	C
66	D3	1590	G
66	D3	1595	U
66	D3	1596	C
66	D3	1600	A
66	D3	1602	C
66	D3	1607	G
66	D3	1616	G
66	D3	1617	U
66	D3	1618	C

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Mol	Chain	Res	Type
66	D3	1619	C
66	D3	1621	U
66	D3	1622	G
66	D3	1623	C
66	D3	1628	U
66	D3	1629	G
66	D3	1630	U
66	D3	1631	A
66	D3	1635	A
66	D3	1636	C
66	D3	1637	C
66	D3	1639	C
66	D3	1654	G
66	D3	1655	A
66	D3	1657	U
66	D3	1658	G
66	D3	1659	A
66	D3	1664	C
66	D3	1666	U
66	D3	1670	G
66	D3	1678	A
66	D3	1681	A
66	D3	1682	U
66	D3	1683	C
66	D3	1684	U
66	D3	1686	C
66	D3	1695	G
66	D3	1697	G
66	D3	1699	G
66	D3	1703	C
66	D3	1705	C
66	D3	1709	C
66	D3	1711	C
66	D3	1712	A
66	D3	1715	G
66	D3	1717	G
66	D3	1731	A
66	D3	1742	U
66	D3	1746	A
66	D3	1747	G
66	D3	1750	A
66	D3	1769	U

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Mol	Chain	Res	Type
66	D3	1770	U
66	D3	1773	C
66	D3	1780	G
66	D3	1782	A
66	D3	1783	C
66	D3	1784	C
66	D3	1787	C
67	D4	2	U
67	D4	3	C
67	D4	5	A
67	D4	14	A
67	D4	15	U
67	D4	16	A
67	D4	18	G
67	D4	23	U
67	D4	24	U
67	D4	25	U
67	D4	28	A
67	D4	29	U
67	D4	30	A
67	D4	33	A
67	D4	35	U
67	D4	36	C
67	D4	38	U
67	D4	39	C
67	D4	46	U
67	D4	47	G
67	D4	48	A
67	D4	49	C
67	D4	56	A
67	D4	59	G
67	D4	61	G
67	D4	80	U
67	D4	83	A
67	D4	88	U
67	D4	90	C
67	D4	91	C
67	D4	92	A
67	D4	93	U
67	D4	115	G
67	D4	118	A
67	D4	138	A

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Mol	Chain	Res	Type
67	D4	140	C
67	D4	143	G
67	D4	144	G
67	D4	145	U
67	D4	149	C
67	D4	150	A
67	D4	151	A
67	D4	152	U
67	D4	155	U
67	D4	156	U
67	D4	157	A
67	D4	158	G
67	D4	159	C
67	D4	162	U
67	D4	176	A
67	D4	178	U
67	D4	183	A
67	D4	185	A
67	D4	186	A
67	D4	187	A
67	D4	188	A
67	D4	199	G
67	D4	205	G
67	D4	247	U
67	D4	256	G
67	D4	267	A
67	D4	305	G
67	D4	312	U
67	D4	313	A
67	D4	319	G
67	D4	322	A
67	D4	324	U
67	D4	325	C
67	D4	326	U
67	D4	328	A
67	D4	329	C
67	D4	333	U
68	EA	161	U
68	EA	162	U
68	EA	163	U
68	EA	164	A
68	EA	165	A

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Mol	Chain	Res	Type
68	EA	166	A
68	EA	167	U
68	EA	169	U
68	EA	170	U
68	EA	171	U
68	EA	172	U
68	EA	175	U
68	EA	176	U
68	EA	177	U
68	EA	178	U

All (34) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
65	D2	82	A
65	D2	311	C
65	D2	314	U
65	D2	370	U
66	D3	-6	A
66	D3	-2	A
66	D3	0	U
66	D3	1	U
66	D3	72	A
66	D3	139	C
66	D3	278	U
66	D3	417	A
66	D3	500	C
66	D3	540	G
66	D3	547	U
66	D3	578	U
66	D3	579	A
66	D3	586	G
66	D3	782	U
66	D3	912	U
66	D3	925	G
66	D3	1057	U
66	D3	1063	U
66	D3	1158	C
66	D3	1491	U
66	D3	1573	A
66	D3	1594	G
66	D3	1620	C

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Mol	Chain	Res	Type
66	D3	1638	G
66	D3	1657	U
67	D4	143	G
67	D4	151	A
67	D4	157	A
67	D4	318	U

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 7 ligands modelled in this entry, 6 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	$\#\|Z\| > 2$
82	GTP	CL	2001	81	26,34,34	0.92	1 (3%)	32,54,54	1.49	5 (15%)

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
82	GTP	CL	2001	81	-	7/18/38/38	0/3/3/3

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
82	CL	2001	GTP	C6-N1	-2.49	1.34	1.37

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
82	CL	2001	GTP	PB-O3B-PG	-3.53	120.73	132.83
82	CL	2001	GTP	PA-O3A-PB	-3.32	121.42	132.83
82	CL	2001	GTP	C3'-C2'-C1'	3.21	105.81	100.98
82	CL	2001	GTP	C8-N7-C5	2.39	107.54	102.99
82	CL	2001	GTP	C5-C6-N1	2.32	118.05	113.95

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
82	CL	2001	GTP	C5'-O5'-PA-O1A
82	CL	2001	GTP	C3'-C4'-C5'-O5'
82	CL	2001	GTP	O4'-C4'-C5'-O5'
82	CL	2001	GTP	C5'-O5'-PA-O3A
82	CL	2001	GTP	C5'-O5'-PA-O2A
82	CL	2001	GTP	PA-O3A-PB-O1B
82	CL	2001	GTP	PA-O3A-PB-O2B

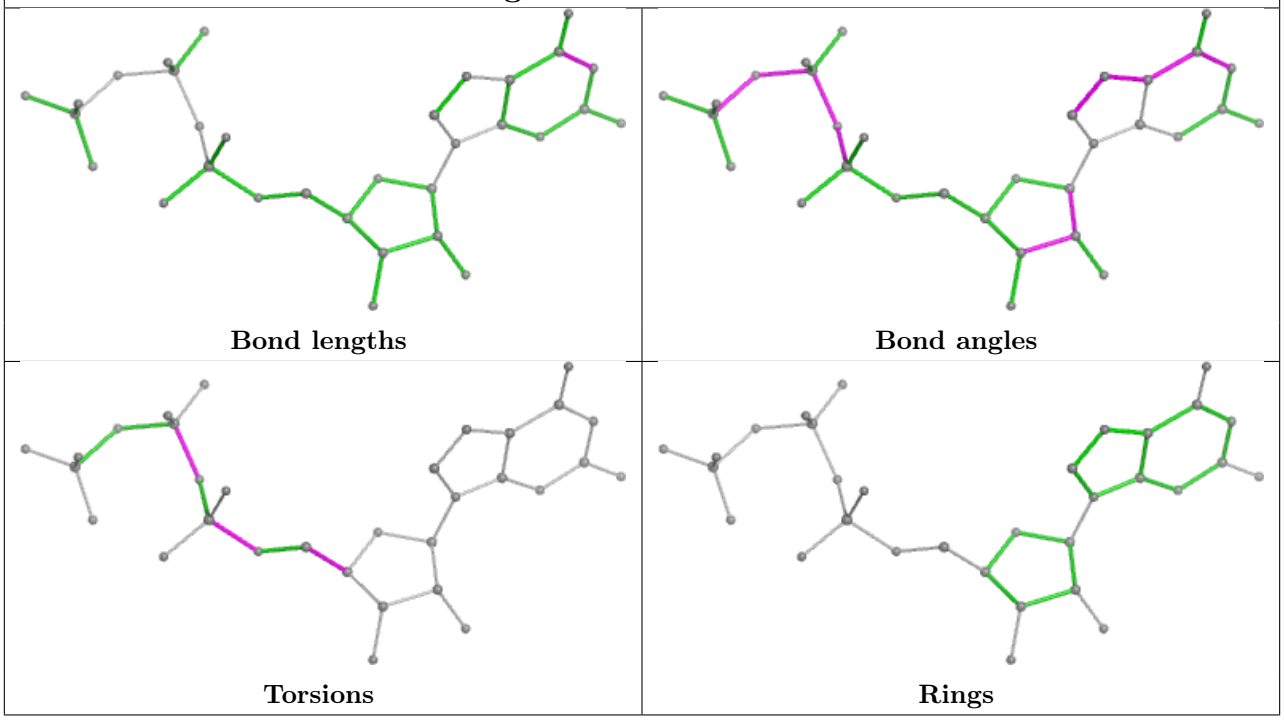
There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
82	CL	2001	GTP	2	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 (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

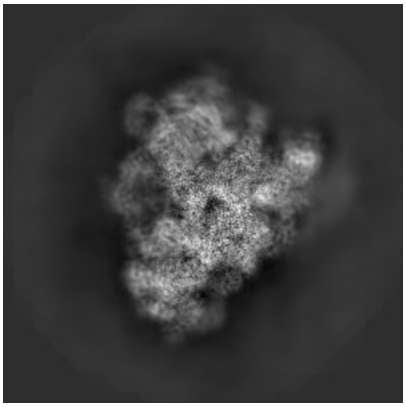
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-11807. These allow visual inspection of the internal detail of the map and identification of artifacts.

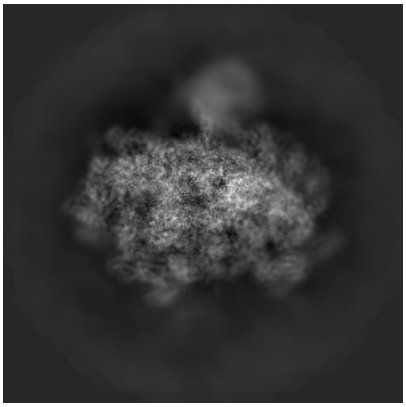
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

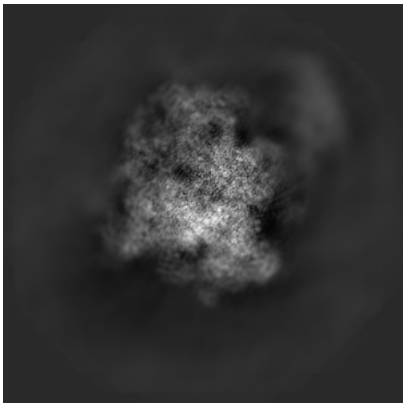
6.1.1 Primary map



X



Y

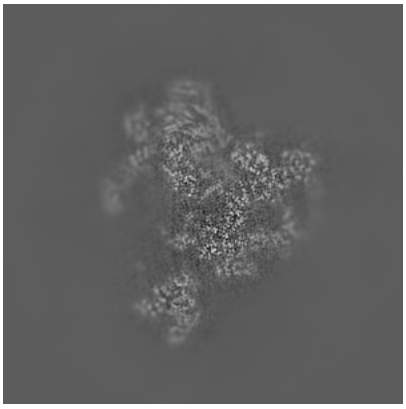


Z

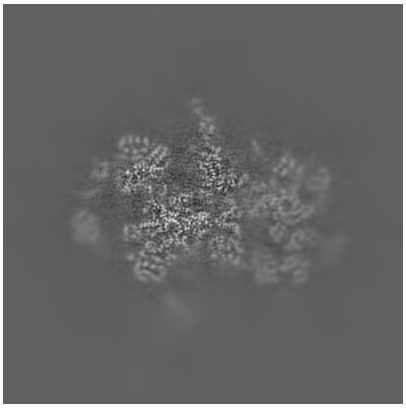
The images above show the map projected in three orthogonal directions.

6.2 Central slices

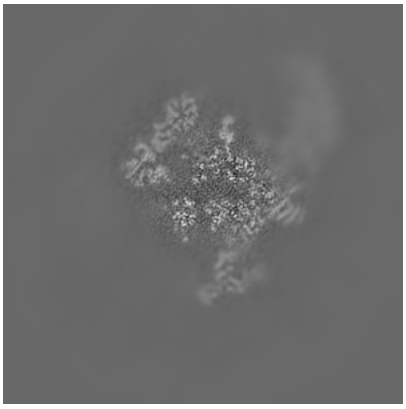
6.2.1 Primary map



X Index: 270



Y Index: 270

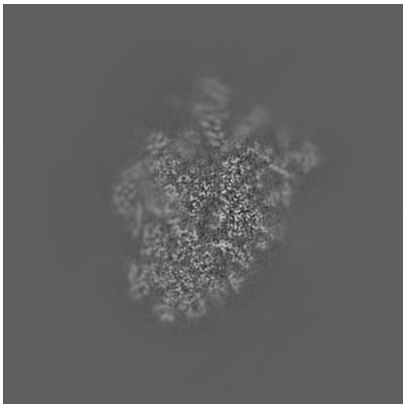


Z Index: 270

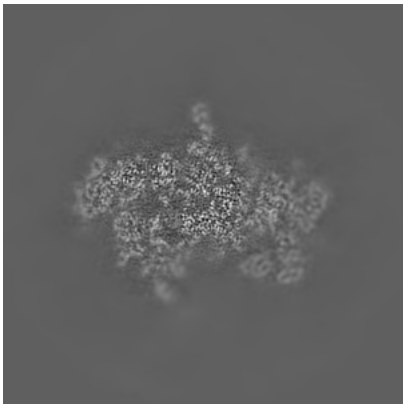
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

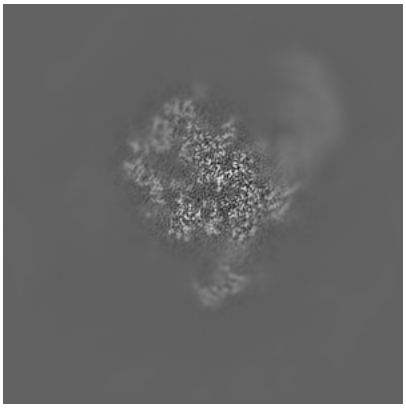
6.3.1 Primary map



X Index: 310



Y Index: 252

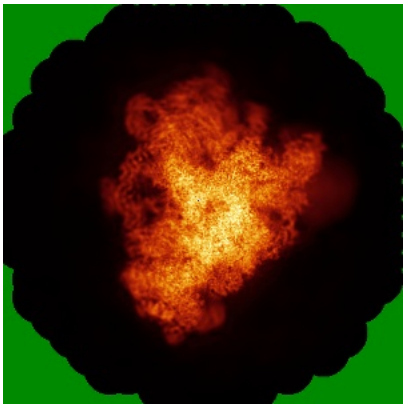


Z Index: 279

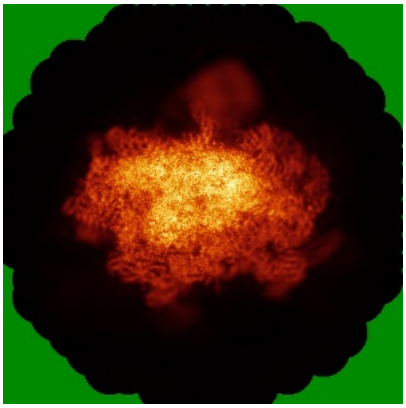
The images above show the largest variance slices of the map in three orthogonal directions.

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

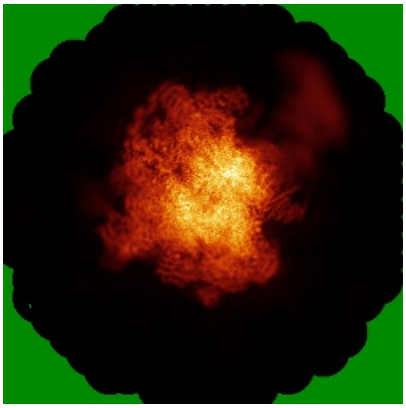
6.4.1 Primary map



X



Y

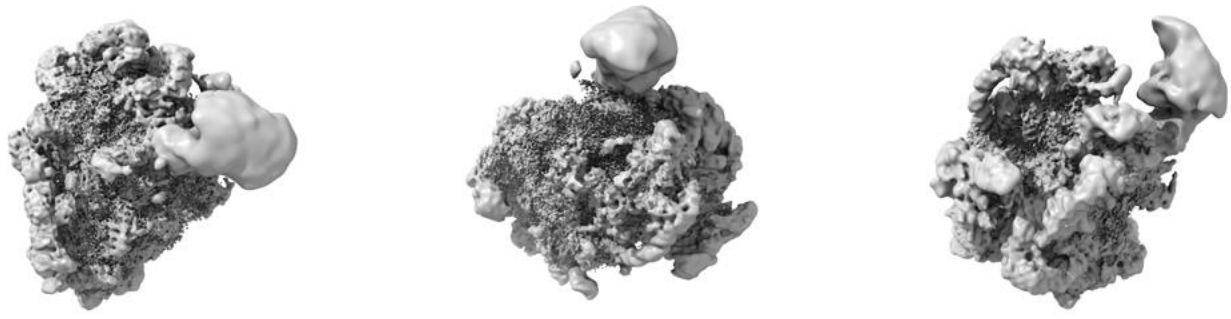


Z

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.

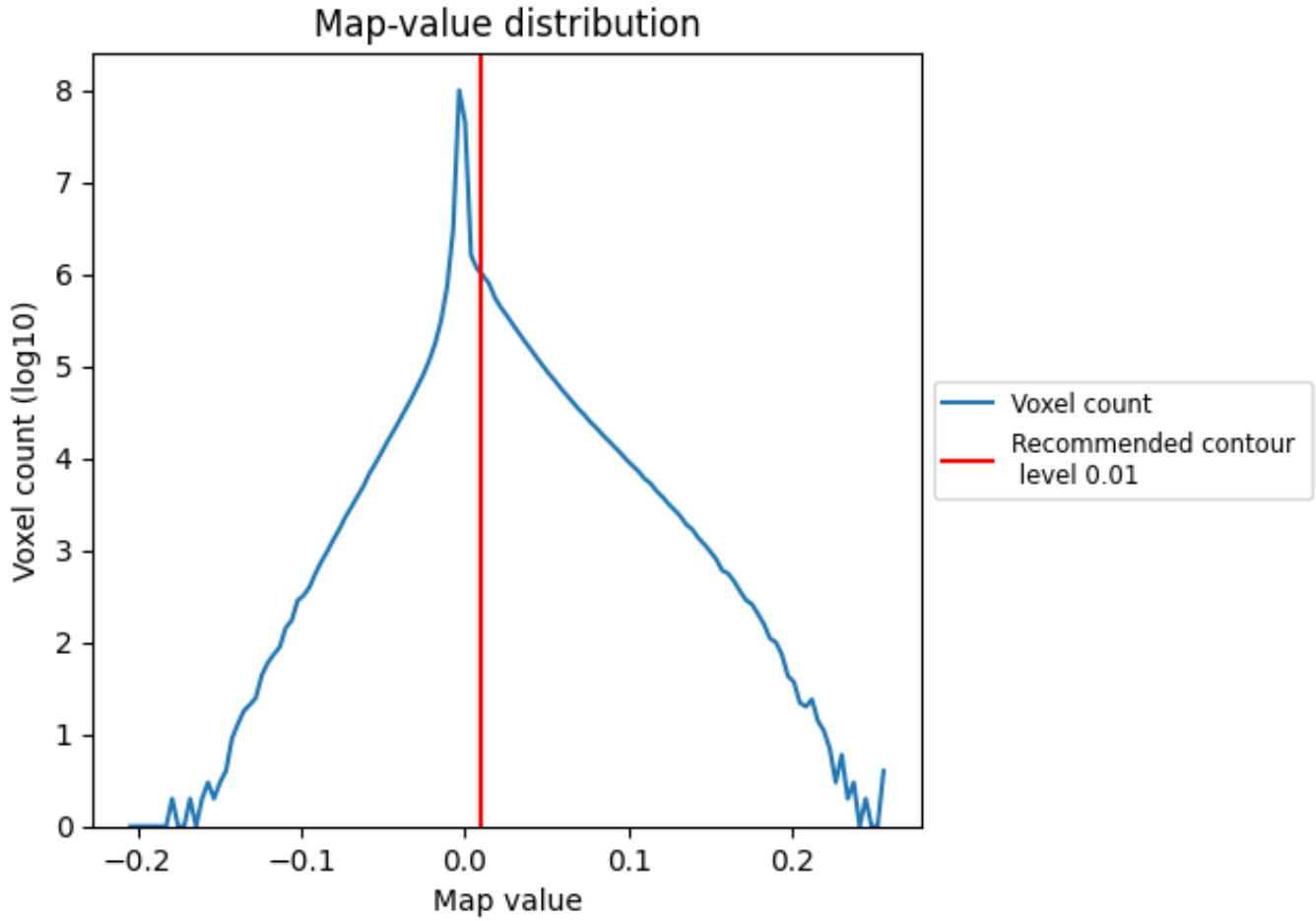
6.6 Mask visualisation (i)

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

7 Map analysis

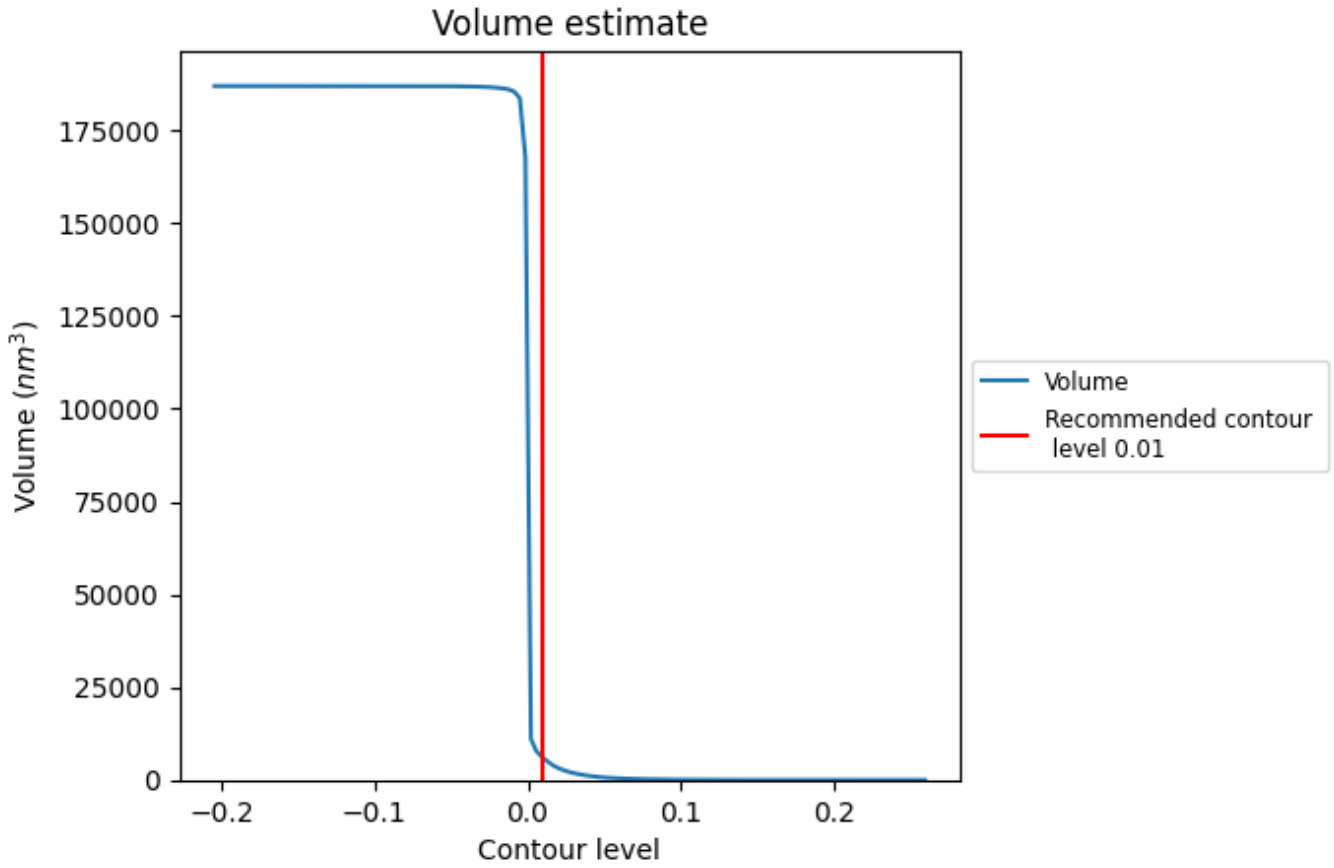
This section contains the results of statistical analysis of the map.

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.

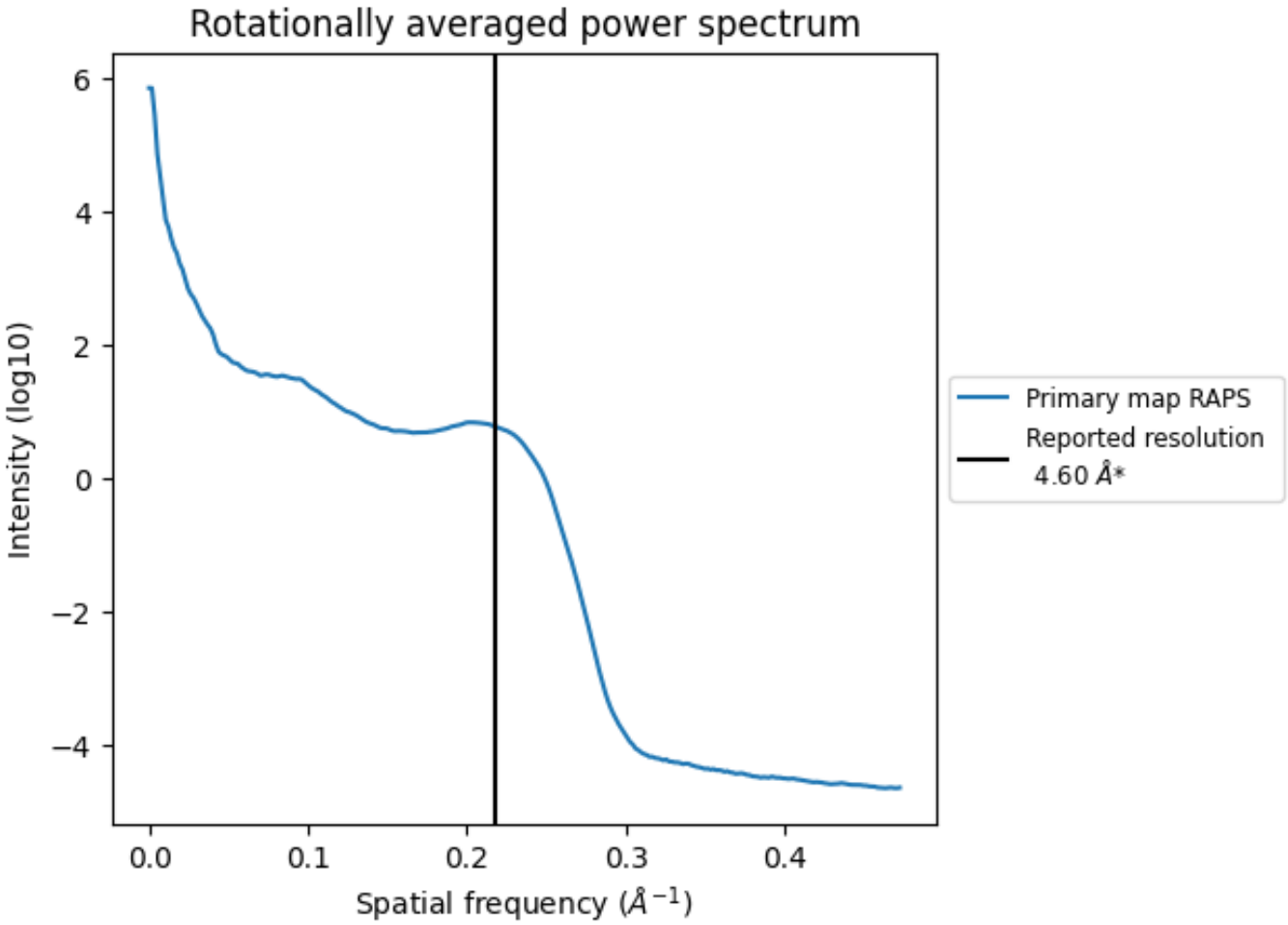
7.2 Volume estimate



The volume at the recommended contour level is 5975 nm^3; this corresponds to an approximate mass of 5397 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)

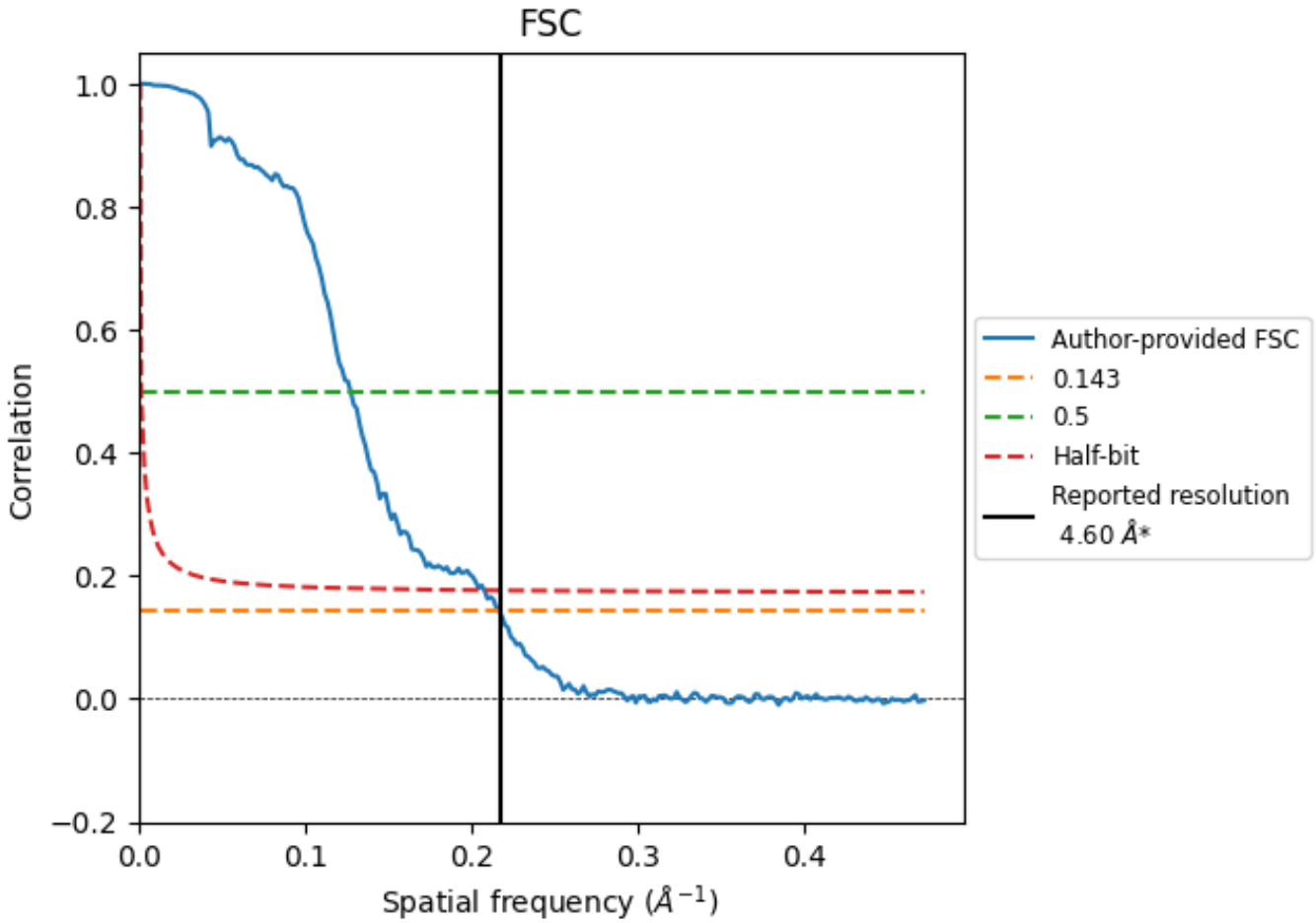


*Reported resolution corresponds to spatial frequency of 0.217 Å^{-1}

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 0.217 Å^{-1}

8.2 Resolution estimates (i)

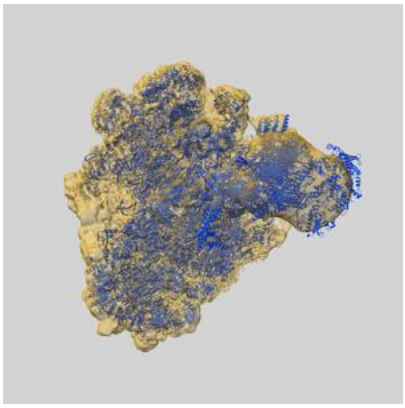
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.60	-	-
Author-provided FSC curve	4.62	7.84	4.81
Unmasked-calculated*	-	-	-

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

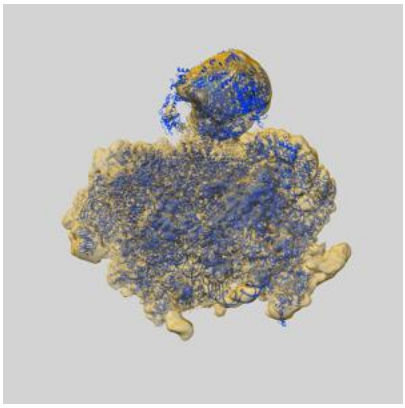
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-11807 and PDB model 7AJT. Per-residue inclusion information can be found in section 3 on page 21.

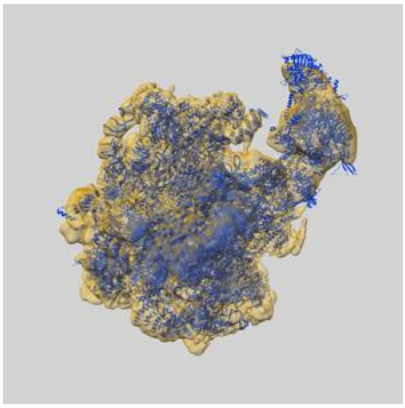
9.1 Map-model overlay



X



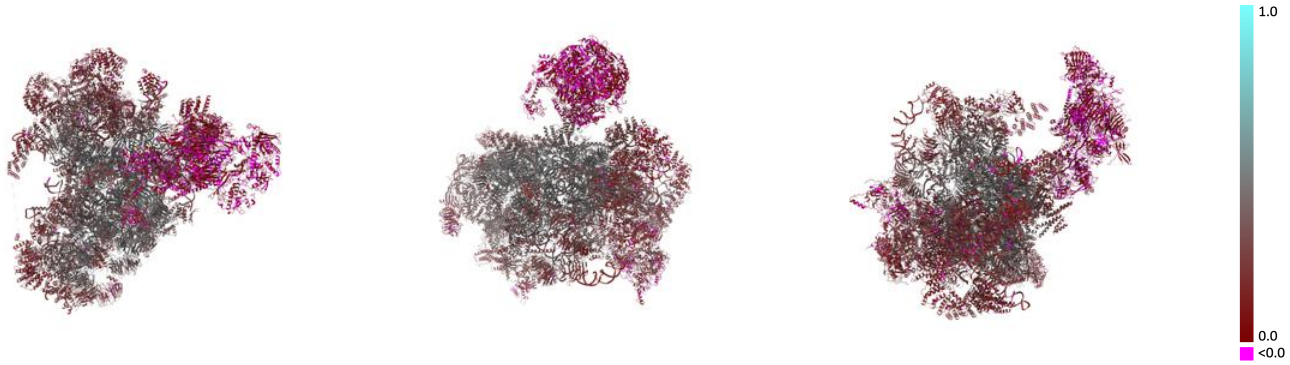
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

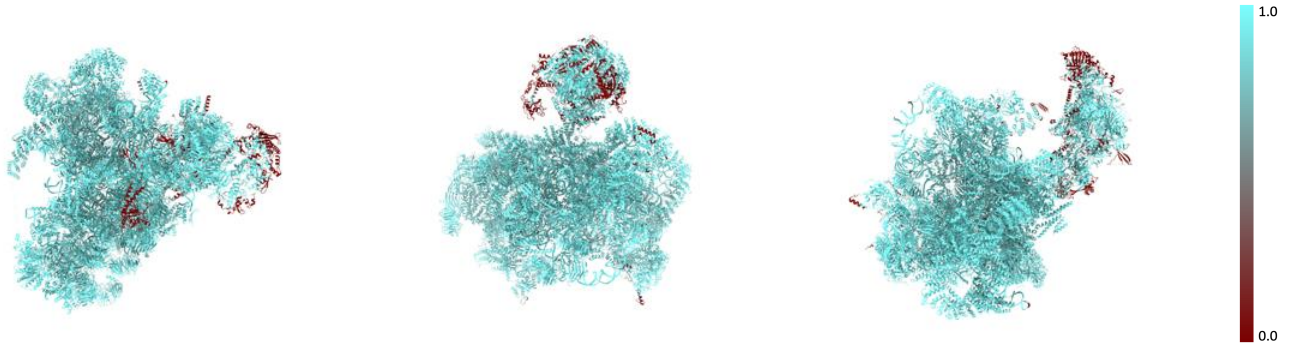
9.2 Q-score mapped to coordinate model (i)



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.

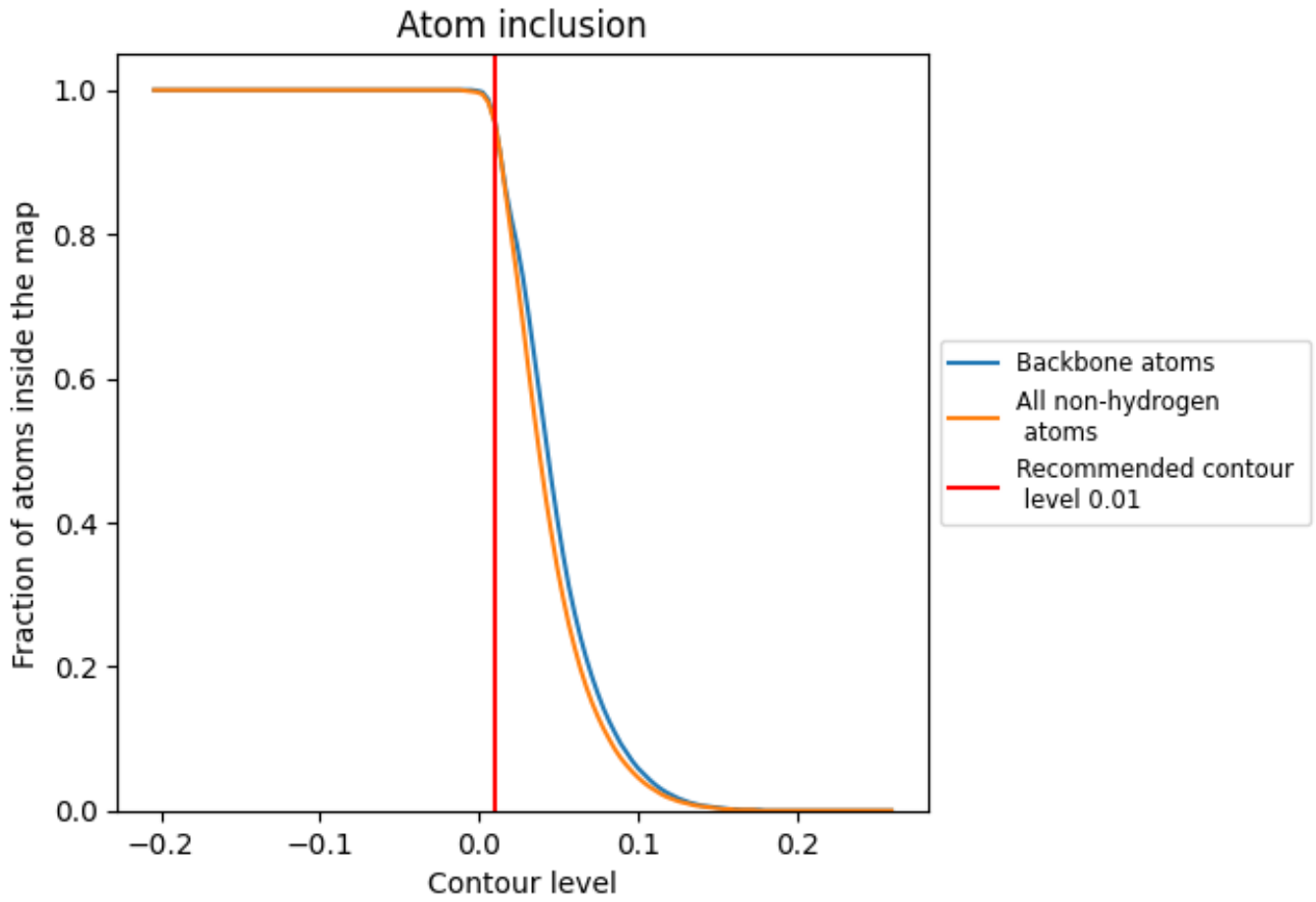
9.3 Atom inclusion mapped to coordinate model (i)



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, 96% of all backbone atoms, 95% 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	0.9540	0.3080
CA	0.9740	0.4780
CB	0.9640	0.3520
CD	0.9760	0.3780
CE	0.9710	0.3380
CF	0.9680	0.4410
CG	0.9650	0.4290
CH	0.9840	0.3800
CI	0.9820	0.5020
CJ	0.9740	0.4640
CK	0.9710	0.4120
CL	0.9710	0.3950
CM	0.9760	0.3510
CN	0.9730	0.2290
D2	0.9950	0.3830
D3	0.9840	0.3300
D4	0.9740	0.3570
DA	0.9670	0.4030
DE	0.9630	0.3290
DF	0.9820	0.4290
DG	0.9620	0.2000
DH	0.9530	0.3050
DI	0.9680	0.2110
DJ	0.9580	0.4480
DL	0.9580	0.2070
DN	0.9630	0.3770
DO	0.9740	0.4170
DQ	0.9730	0.4730
DS	0.9860	0.3270
DW	0.9700	0.4610
DX	0.9760	0.4450
DY	0.9710	0.3820
Db	0.9850	0.4420
Dc	0.9750	0.4500
EA	0.9180	0.0410

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Chain	Atom inclusion	Q-score
EB	0.8550	0.0250
EC	0.9640	0.0340
ED	0.9200	0.0480
EE	0.8910	0.0310
EF	0.9320	0.0460
EG	0.8690	0.0230
EH	0.6400	0.0500
EI	0.8720	0.0500
EJ	0.5890	0.0360
EK	0.5680	0.0340
EN	0.6120	0.0570
JA	0.9600	0.1970
JB	0.9280	0.1730
JC	0.9340	0.1790
JF	0.9800	0.2710
JG	0.9620	0.3670
JH	0.9510	0.1210
JI	0.8140	0.1750
JJ	0.9710	0.2930
JK	0.9360	0.1590
JM	0.9720	0.4140
JN	0.9730	0.4460
JO	0.9720	0.4170
JP	0.9740	0.4840
JQ	0.9890	0.3430
UA	0.9810	0.4650
UB	0.9860	0.2670
UC	0.9710	0.4160
UD	0.9820	0.3340
UE	0.9780	0.3730
UF	0.9790	0.3530
UG	0.9810	0.4670
UH	0.9890	0.1870
UI	0.9780	0.2160
UJ	0.9700	0.2600
UK	0.9740	0.4070
UL	0.9820	0.3270
UM	0.9740	0.2870
UN	0.9590	0.4230
UO	0.9760	0.3790
UP	0.9770	0.3200
UQ	0.9820	0.3440

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Chain	Atom inclusion	Q-score
UR	0.9830	0.4350
US	0.9810	0.2890
UT	0.9750	0.2090
UU	0.9790	0.4300
UV	0.9750	0.2370
UX	0.9730	0.4970
UZ	0.9820	0.3500