



Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 01:39 PM UTC

PDB ID : 8WLQ / pdb_00008wlq
EMDB ID : EMD-37628
Title : Cryo-EM structure of the whole rod-export apparatus with hook within the flagellar motor-hook complex in the CCW state.
Authors : Tan, J.X.; Zhang, L.; Zhou, Y.; Zhu, Y.Q.
Deposited on : 2023-09-30
Resolution : 3.80 Å(reported)
Based on initial model : .

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

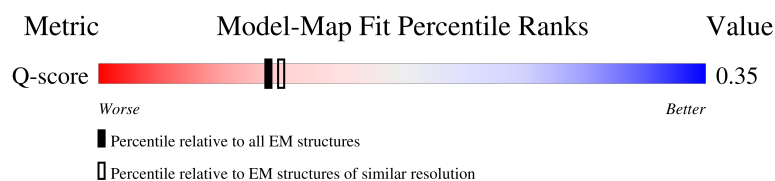
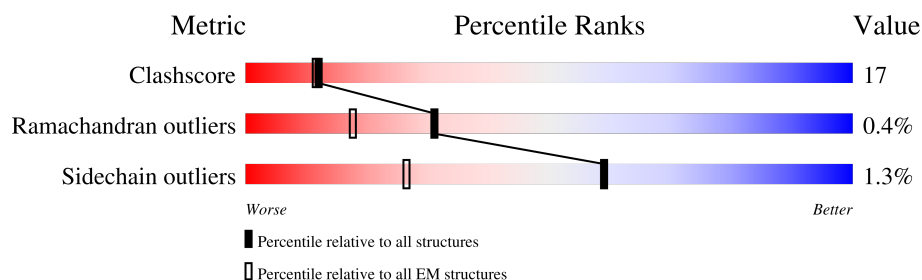
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance

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

The reported resolution of this entry is 3.80 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10198 (3.30 - 4.30)

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

Mol	Chain	Length	Quality of chain
1	0	260	9% 59% 34% 5%
1	1	260	15% 65% 30% • •
1	2	260	12% 67% 31% •
1	3	260	11% 65% 35% •

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Mol	Chain	Length	Quality of chain
1	4	260	13% 65% 34% .
1	5	260	12% 63% 35% .
1	6	260	8% 66% 33% .
1	7	260	11% 67% 32% .
1	8	260	8% 67% 30% .
1	9	260	13% 71% 28% .
1	ZA	260	12% 65% 33% .
1	ZB	260	13% 67% 31% .
1	ZC	260	8% 68% 31% .
1	ZD	260	11% 63% 35% .
1	ZE	260	13% 69% 29% .
1	r	260	18% 70% 27% ..
1	s	260	10% 56% 40% ..
1	t	260	11% 62% 33% ..
1	u	260	10% 61% 35% ..
1	v	260	12% 62% 33% ..
1	w	260	11% 63% 30% 7%
1	x	260	11% 59% 35% . 5%
1	y	260	11% 59% 33% . 5%
1	z	260	12% 66% 28% . 5%
2	ZF	403	47% 78% 21% .
2	ZG	403	20% 73% 25% .
2	ZH	403	14% 76% 23% .
2	ZI	403	13% 76% 22% .
2	ZJ	403	12% 76% 23%

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Mol	Chain	Length	Quality of chain
2	ZK	403	14% 77% 22%
2	ZL	403	12% 76% 23%
2	ZM	403	13% 72% 27%
2	ZN	403	13% 76% 23%
2	ZO	403	12% 76% 22%
2	ZP	403	12% 69% 30%
2	ZQ	403	13% 71% 29%
2	ZR	403	15% 74% 25%
2	ZS	403	16% 70% 29%
2	ZT	403	16% 73% 26%
2	ZU	403	18% 67% 32%
2	ZV	403	18% 72% 27%
2	ZW	403	23% 72% 26%
2	ZX	403	22% 76% 23%
2	ZY	403	30% 73% 26%
2	ZZ	403	31% 78% 21%
2	Za	403	38% 76% 23%
2	Zb	403	42% 76% 23%
2	Zc	403	44% 75% 24%
2	Zd	403	46% 79% 20%
2	Ze	403	52% 80% 19%
2	Zf	403	54% 75% 24%
2	Zg	403	57% 81% 19%
2	Zh	403	58% 84% 15%
3	A	89	84% 58% 33% 6%

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Mol	Chain	Length	Quality of chain
3	B	89	
3	C	89	
3	D	89	
4	E	264	
5	F	245	
5	G	245	
5	H	245	
5	I	245	
5	J	245	
6	K	104	
6	L	104	
6	M	104	
6	N	104	
6	O	104	
6	P	104	
7	Q	138	
7	R	138	
7	S	138	
7	T	138	
7	U	138	
8	V	134	
8	W	134	
8	X	134	
8	Y	134	
8	Z	134	

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Mol	Chain	Length	Quality of chain
8	a	134	
9	b	560	
9	c	560	
9	d	560	
9	e	560	
9	f	560	
9	g	560	
9	h	560	
9	i	560	
9	j	560	
9	k	560	
9	l	560	
10	m	251	
10	n	251	
10	o	251	
10	p	251	
10	q	251	

2 Entry composition [i](#)

There are 10 unique types of molecules in this entry. The entry contains 167758 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 Flagellar basal-body rod protein FlgG.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	248	Total	C	N	O	S	0	0
			1866	1154	327	379	6		
1	1	252	Total	C	N	O	S	0	0
			1894	1172	331	385	6		
1	2	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	3	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	4	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	5	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	6	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	7	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	8	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	9	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	ZA	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	ZB	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	ZC	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	ZD	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	ZE	260	Total	C	N	O	S	0	0
			1949	1202	341	400	6		
1	r	254	Total	C	N	O	S	0	0
			1903	1175	334	389	5		
1	s	255	Total	C	N	O	S	0	0
			1911	1181	335	390	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	t	256	Total	C	N	O	S	0	0
			1919	1186	336	391	6		
1	u	254	Total	C	N	O	S	0	0
			1903	1175	334	389	5		
1	v	255	Total	C	N	O	S	0	0
			1911	1181	335	390	5		
1	w	243	Total	C	N	O	S	0	0
			1823	1127	318	373	5		
1	x	248	Total	C	N	O	S	0	0
			1866	1154	327	379	6		
1	y	248	Total	C	N	O	S	0	0
			1866	1154	327	379	6		
1	z	248	Total	C	N	O	S	0	0
			1866	1154	327	379	6		

- Molecule 2 is a protein called Flagellar hook protein FlgE.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	ZF	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZG	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZH	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZI	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZJ	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZK	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZL	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZM	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZN	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZO	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZP	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZQ	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	ZR	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZS	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZT	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZU	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZV	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZW	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZX	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZY	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	ZZ	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Za	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zb	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zc	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zd	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Ze	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zf	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zg	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		
2	Zh	401	Total	C	N	O	S	0	0
			2947	1814	507	618	8		

- Molecule 3 is a protein called Flagellar biosynthetic protein FliQ.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	A	89	Total	C	N	O	S	0	0
			670	449	100	114	7		
3	B	89	Total	C	N	O	S	0	0
			670	449	100	114	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	89	Total	C	N	O	S	0	0
			670	449	100	114	7		
3	D	89	Total	C	N	O	S	0	0
			670	449	100	114	7		

- Molecule 4 is a protein called Flagellar biosynthetic protein FliR.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	E	253	Total	C	N	O	S	0	0
			1945	1305	307	318	15		

- Molecule 5 is a protein called Flagellar biosynthetic protein FliP.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	F	207	Total	C	N	O	S	0	0
			1605	1072	249	272	12		
5	G	209	Total	C	N	O	S	0	0
			1626	1086	252	276	12		
5	H	208	Total	C	N	O	S	0	0
			1614	1077	251	274	12		
5	I	208	Total	C	N	O	S	0	0
			1614	1077	251	274	12		
5	J	209	Total	C	N	O	S	0	0
			1623	1084	251	276	12		

- Molecule 6 is a protein called Flagellar hook-basal body complex protein FliE.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	K	40	Total	C	N	O	S	0	0
			300	185	52	57	6		
6	L	72	Total	C	N	O	S	0	0
			543	335	99	103	6		
6	M	74	Total	C	N	O	S	0	0
			557	344	101	106	6		
6	N	74	Total	C	N	O	S	0	0
			557	344	101	106	6		
6	O	74	Total	C	N	O	S	0	0
			557	344	101	106	6		
6	P	73	Total	C	N	O	S	0	0
			550	340	100	104	6		

- Molecule 7 is a protein called Flagellar basal body rod protein FlgB.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	Q	119	Total	C	N	O	S	0	0
			922	565	169	183	5		
7	R	108	Total	C	N	O	S	0	0
			848	523	155	165	5		
7	S	108	Total	C	N	O	S	0	0
			848	523	155	165	5		
7	T	110	Total	C	N	O	S	0	0
			863	531	160	167	5		
7	U	106	Total	C	N	O	S	0	0
			832	514	150	163	5		

- Molecule 8 is a protein called Flagellar basal-body rod protein FlgC.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	V	133	Total	C	N	O	S	0	0
			969	604	167	193	5		
8	W	132	Total	C	N	O	S	0	0
			964	601	166	192	5		
8	X	133	Total	C	N	O	S	0	0
			969	604	167	193	5		
8	Y	133	Total	C	N	O	S	0	0
			969	604	167	193	5		
8	Z	131	Total	C	N	O	S	0	0
			956	595	165	191	5		
8	a	133	Total	C	N	O	S	0	0
			969	604	167	193	5		

- Molecule 9 is a protein called Flagellar M-ring protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
9	b	13	Total	C	N	O	0	0
			81	50	15	16		
9	c	16	Total	C	N	O	0	0
			103	64	19	20		
9	d	20	Total	C	N	O	0	0
			133	83	23	27		
9	e	16	Total	C	N	O	0	0
			103	64	19	20		
9	f	21	Total	C	N	O	0	0
			140	88	24	28		
9	g	16	Total	C	N	O	0	0
			103	64	19	20		
9	h	21	Total	C	N	O	0	0
			140	88	24	28		

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Mol	Chain	Residues	Atoms				AltConf	Trace
9	i	16	Total	C	N	O	0	0
			103	64	19	20		
9	j	20	Total	C	N	O	0	0
			133	83	23	27		
9	k	16	Total	C	N	O	0	0
			103	64	19	20		
9	l	21	Total	C	N	O	0	0
			140	88	24	28		

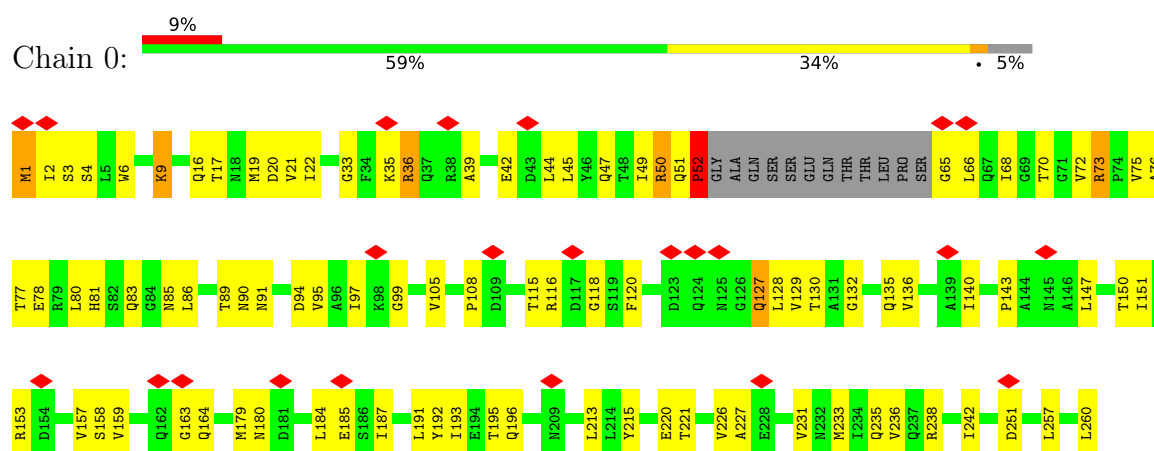
- Molecule 10 is a protein called Flagellar basal-body rod protein FlgF.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	m	248	Total	C	N	O	S	0	0
			1804	1106	324	367	7		
10	n	249	Total	C	N	O	S	0	0
			1812	1111	325	368	8		
10	o	250	Total	C	N	O	S	0	0
			1820	1116	326	369	9		
10	p	250	Total	C	N	O	S	0	0
			1820	1116	326	369	9		
10	q	249	Total	C	N	O	S	0	0
			1812	1111	325	368	8		

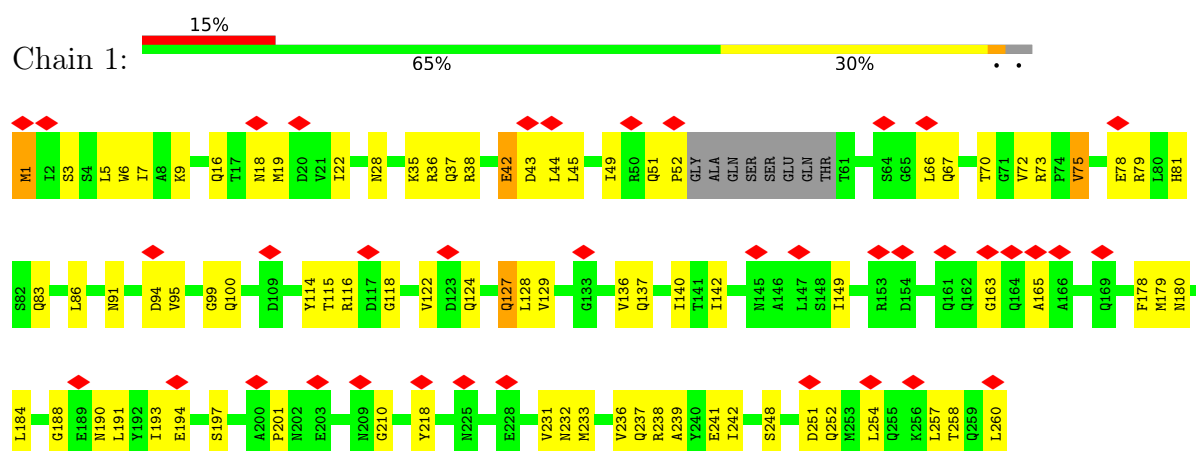
3 Residue-property plots [i](#)

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.

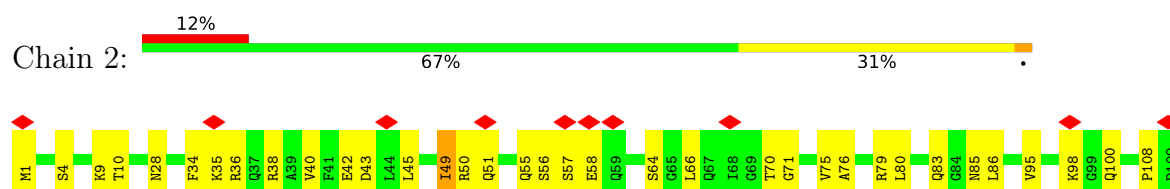
- Molecule 1: Flagellar basal-body rod protein FlgG

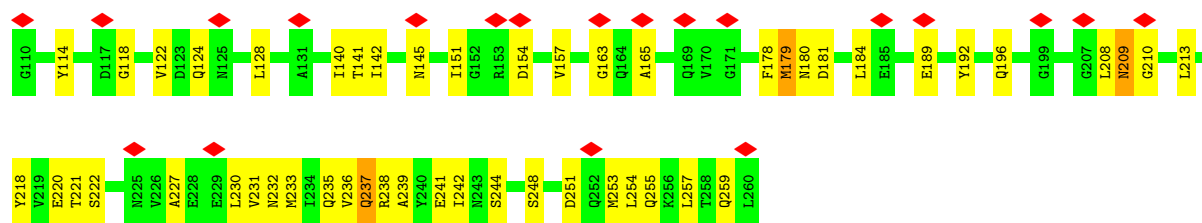


- Molecule 1: Flagellar basal-body rod protein FlgG

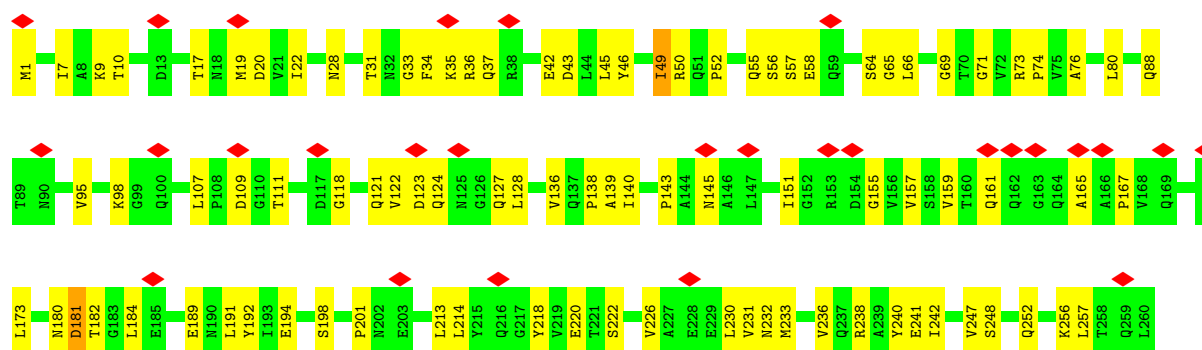


- Molecule 1: Flagellar basal-body rod protein FlgG

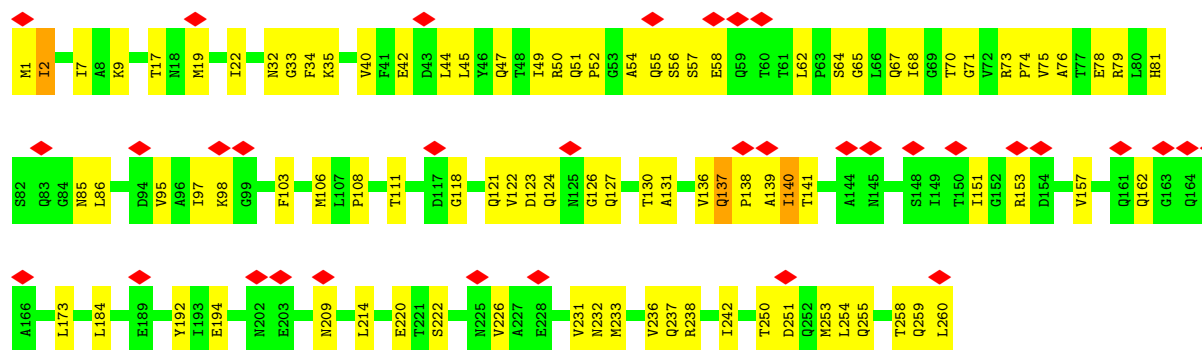




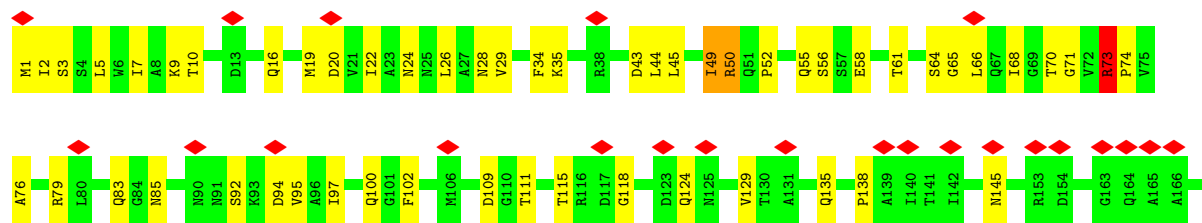
• Molecule 1: Flagellar basal-body rod protein FlgG

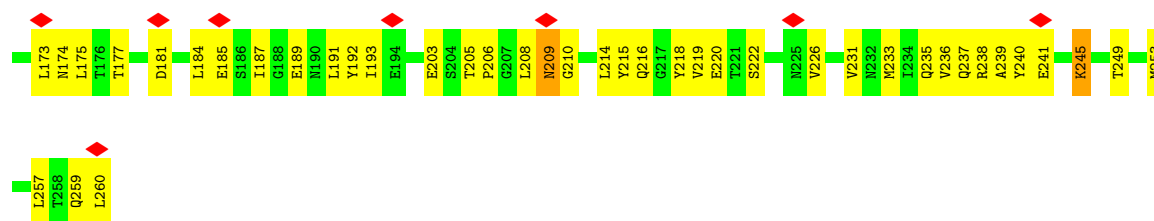


• Molecule 1: Flagellar basal-body rod protein FlgG

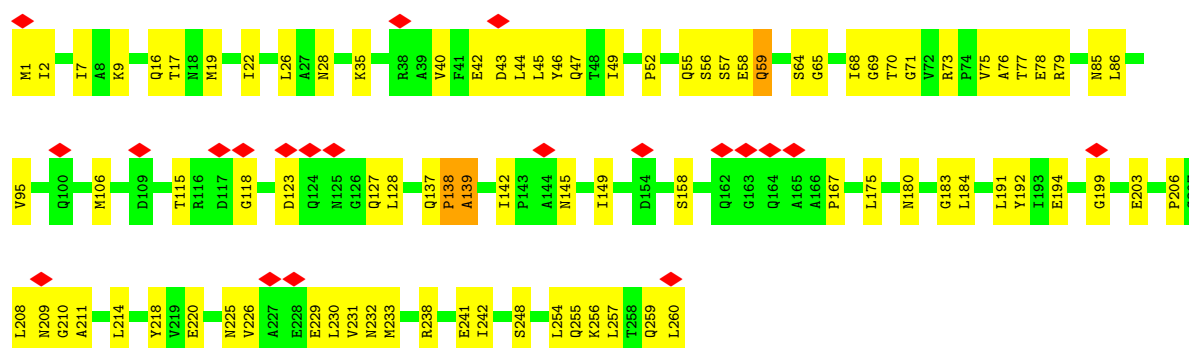


• Molecule 1: Flagellar basal-body rod protein FlgG

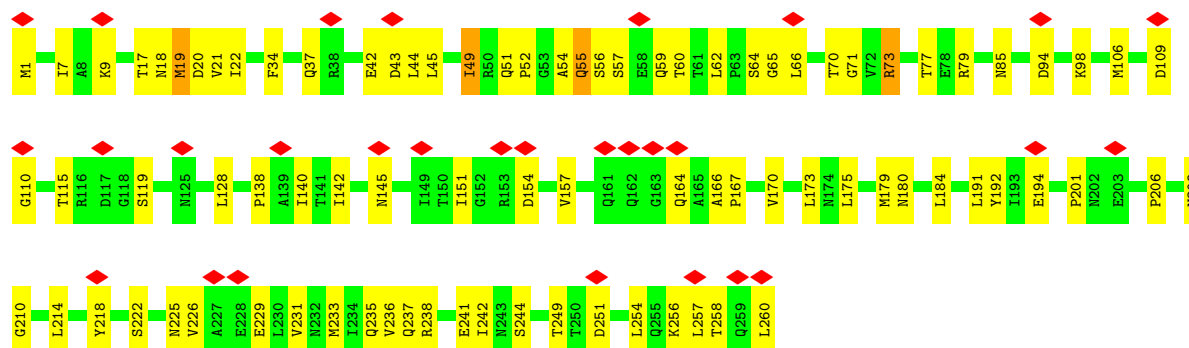




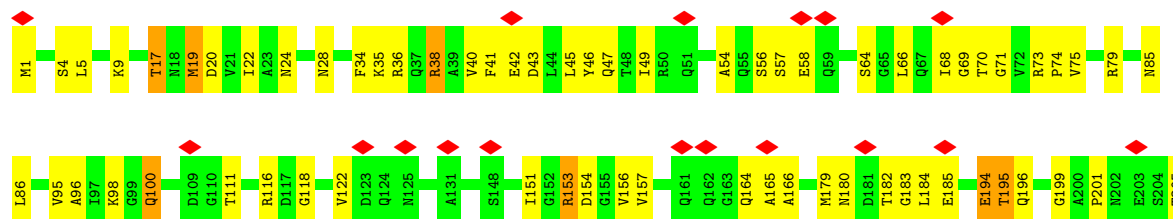
• Molecule 1: Flagellar basal-body rod protein FlgG

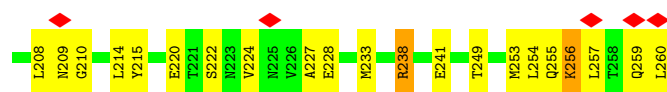


• Molecule 1: Flagellar basal-body rod protein FlgG

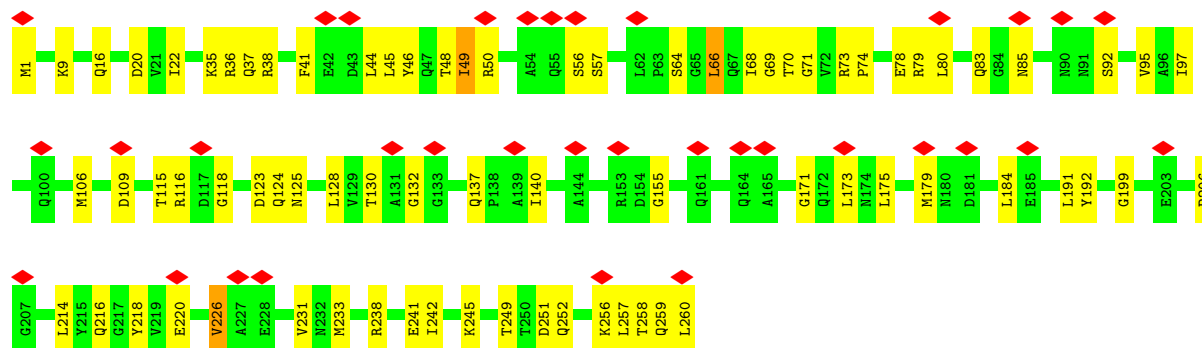


• Molecule 1: Flagellar basal-body rod protein FlgG

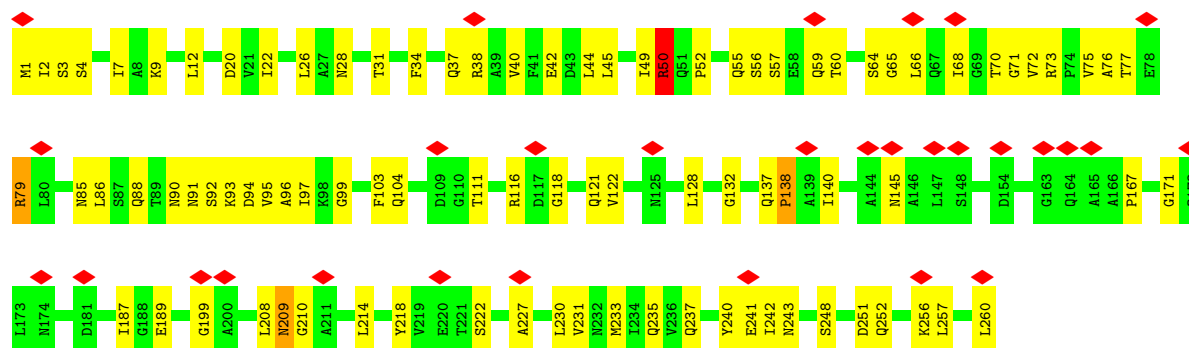




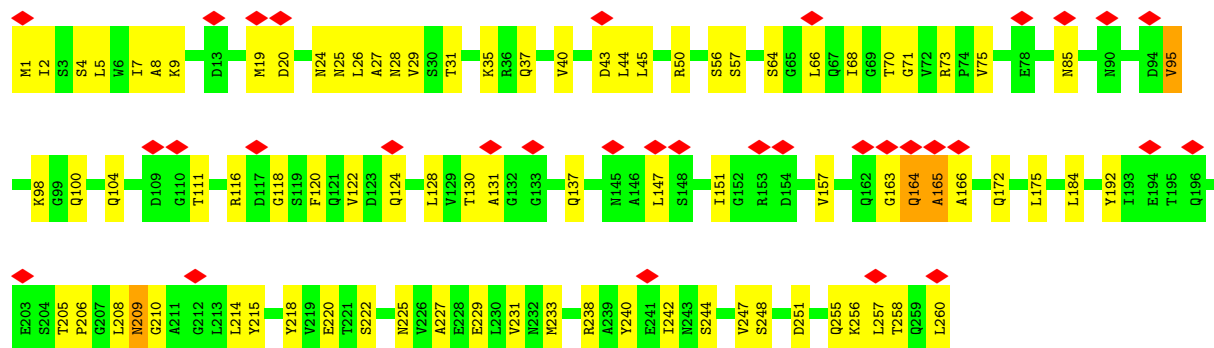
• Molecule 1: Flagellar basal-body rod protein FlgG



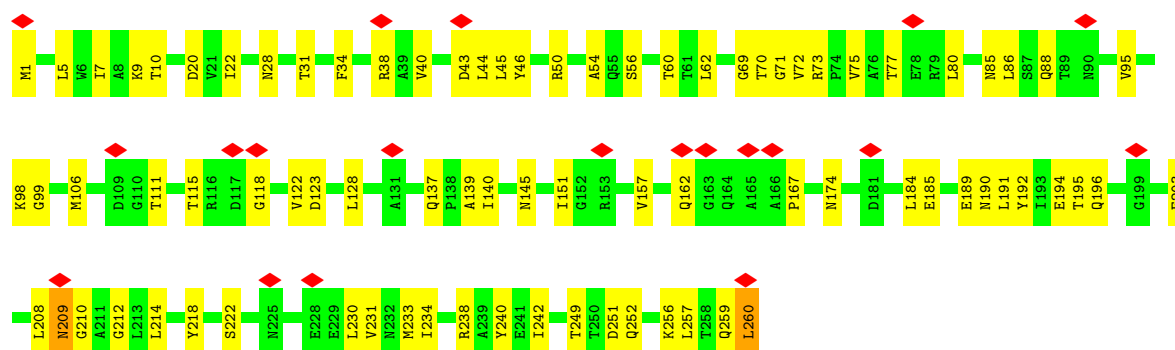
• Molecule 1: Flagellar basal-body rod protein FlgG



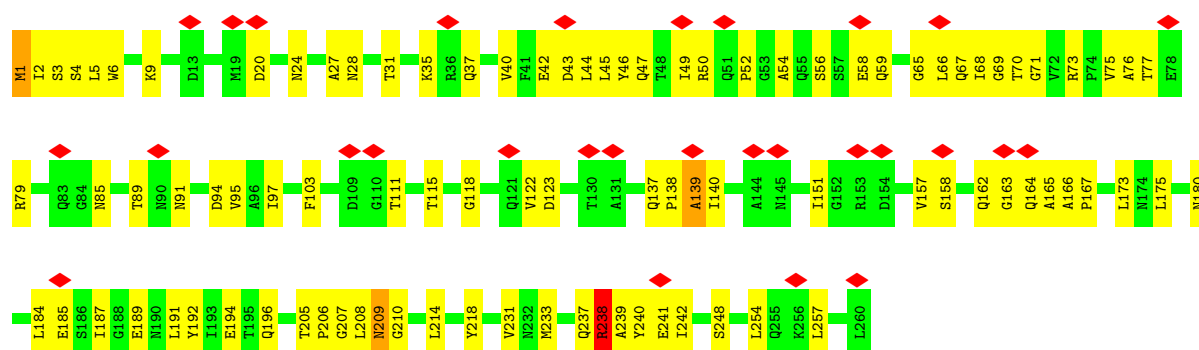
• Molecule 1: Flagellar basal-body rod protein FlgG



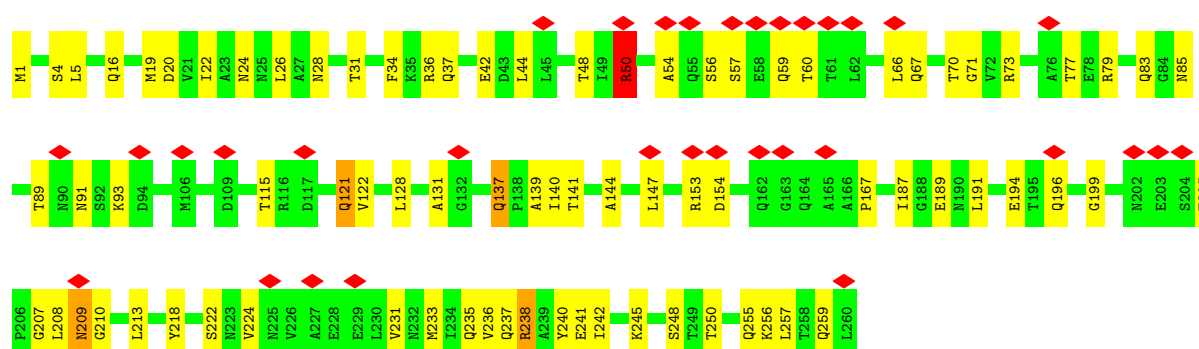
• Molecule 1: Flagellar basal-body rod protein FlgG



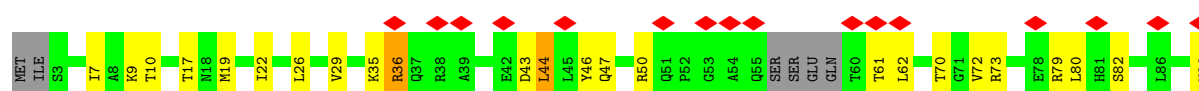
• Molecule 1: Flagellar basal-body rod protein FlgG

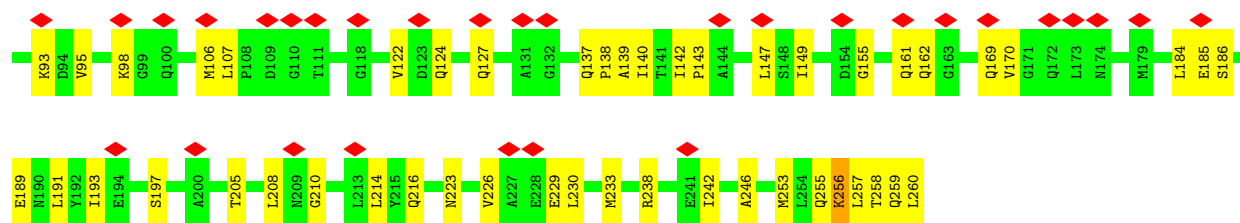


• Molecule 1: Flagellar basal-body rod protein FlgG

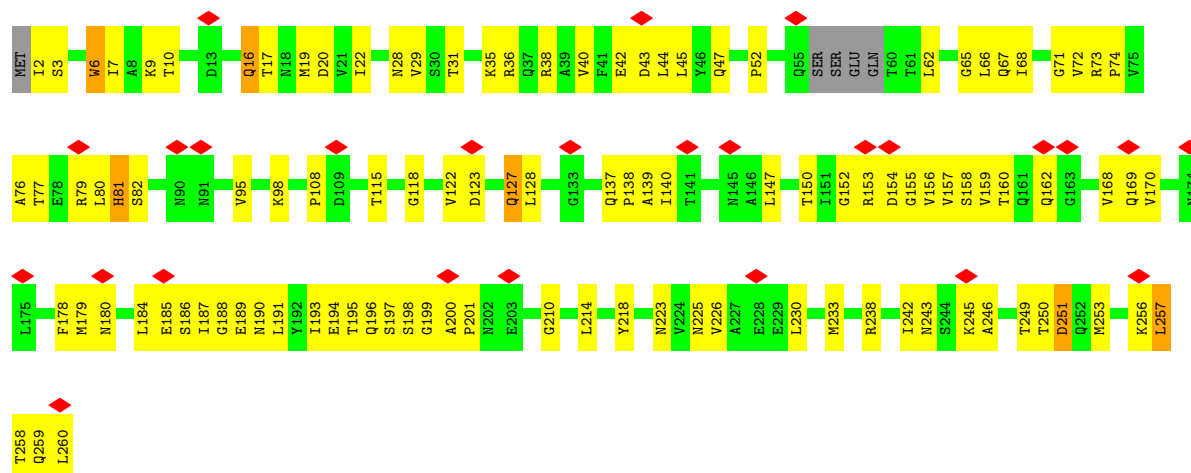


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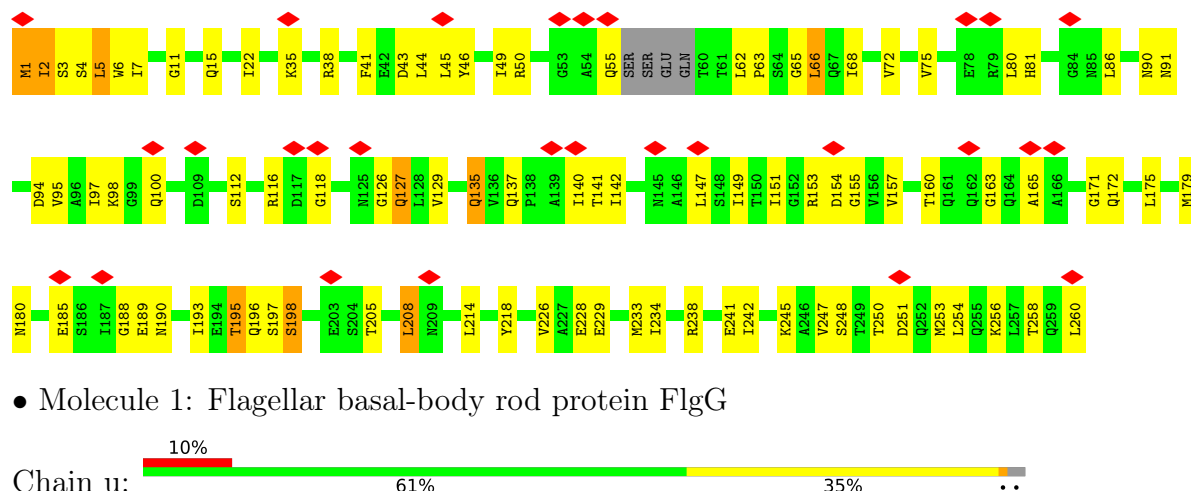




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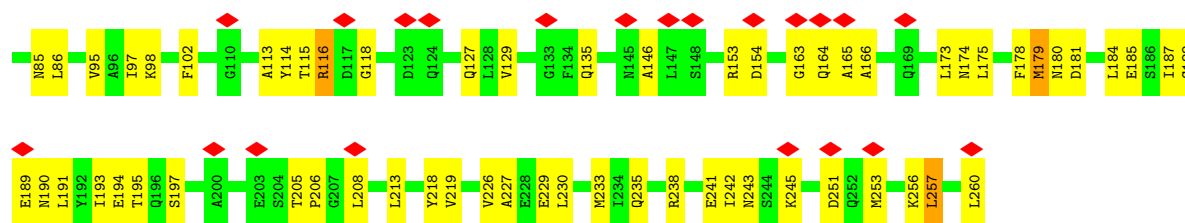


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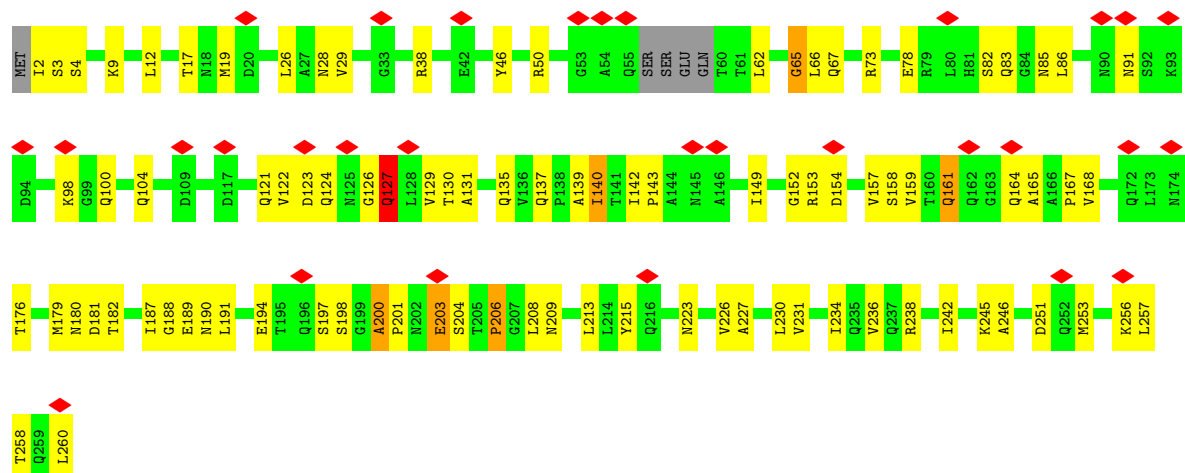


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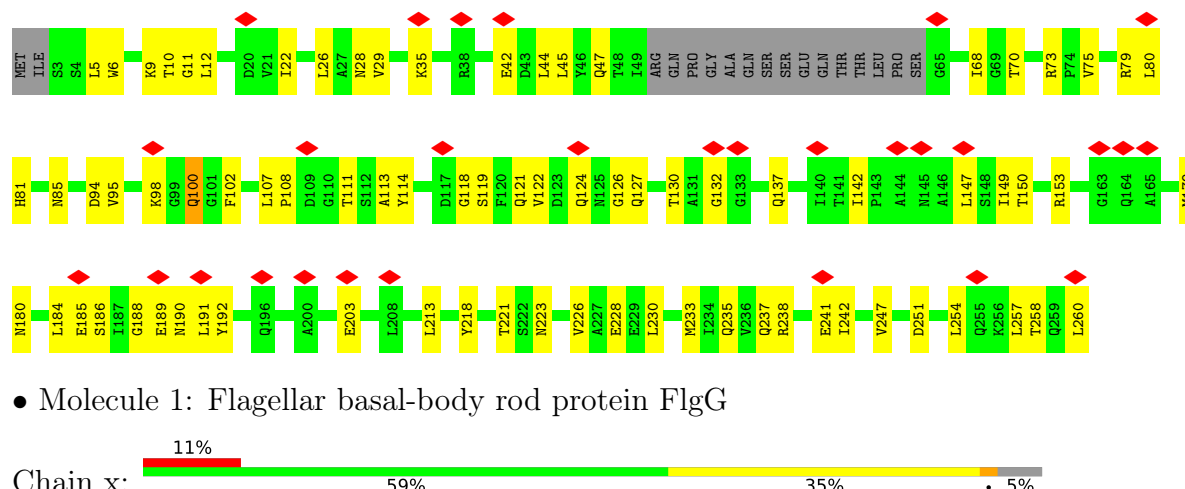




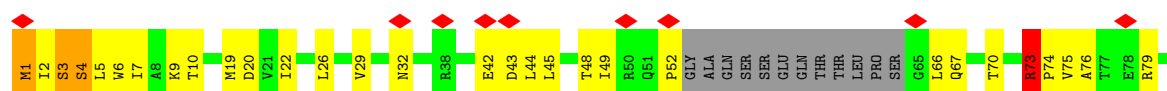
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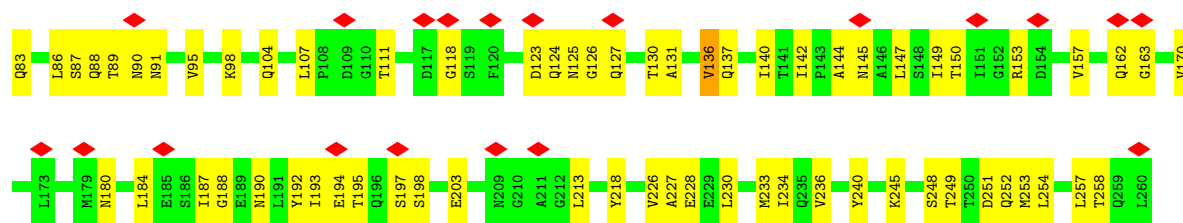


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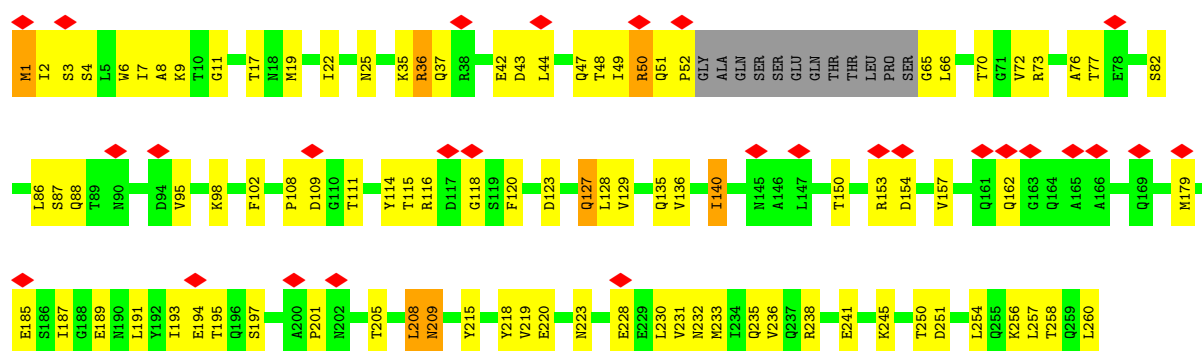


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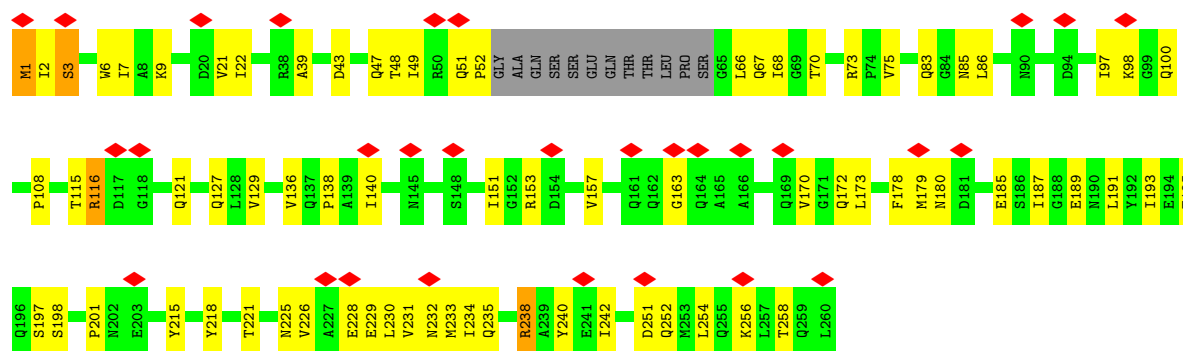




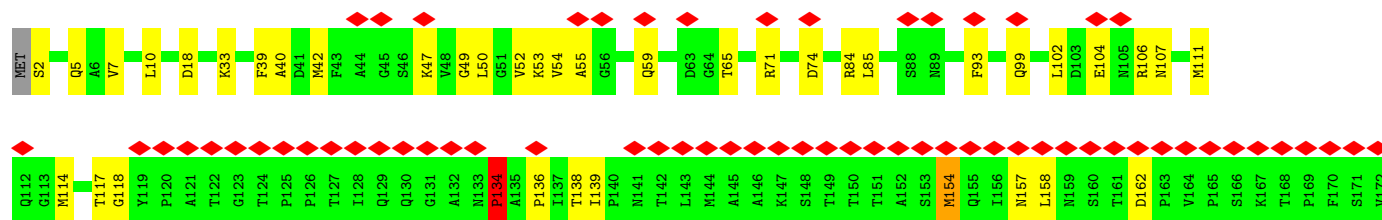
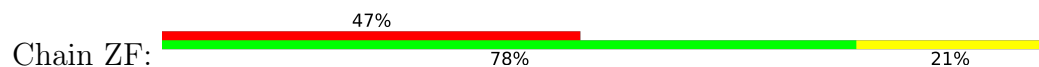
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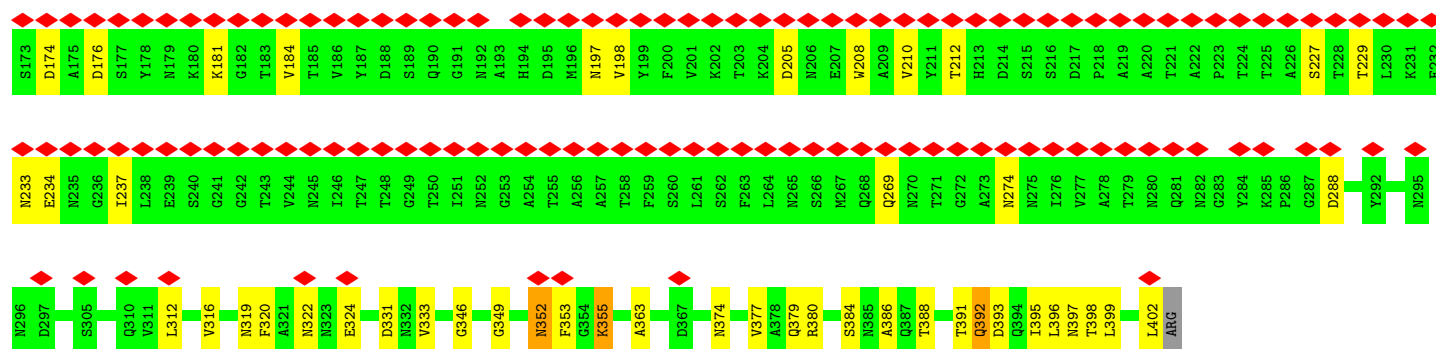


• Molecule 1: Flagellar basal-body rod protein FlgG

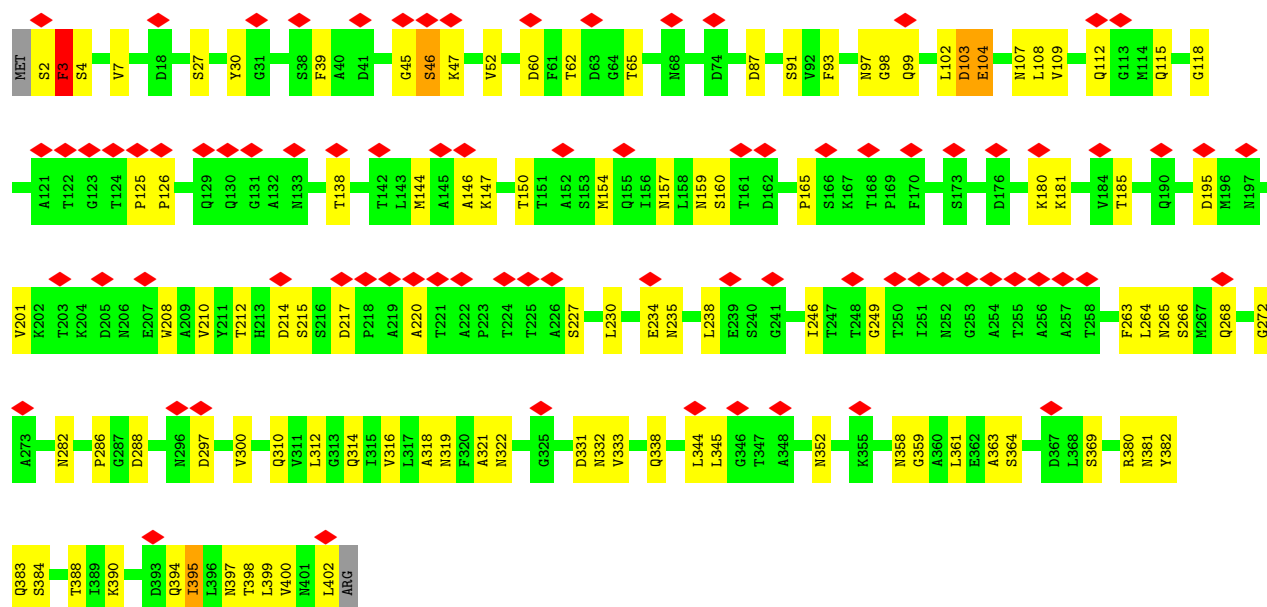
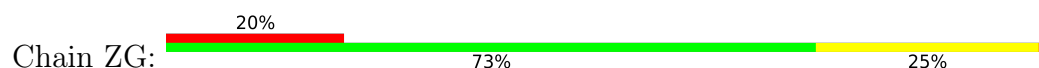


• Molecule 2: Flagellar hook protein FlgE

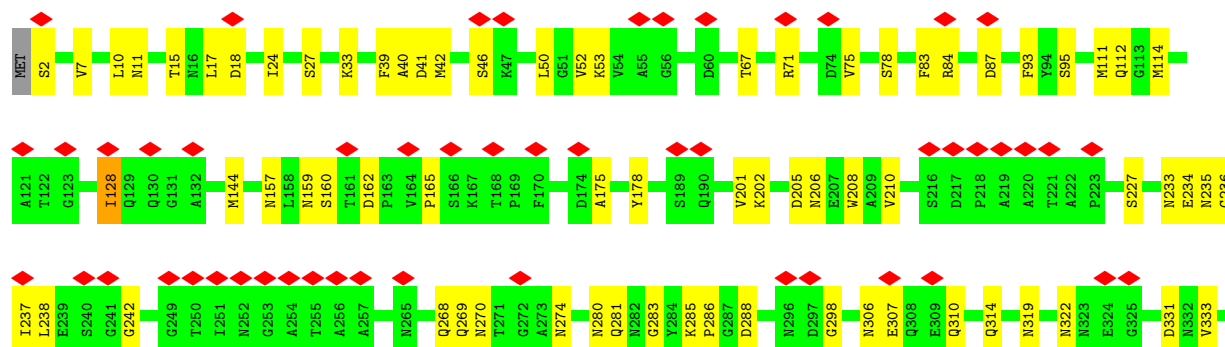
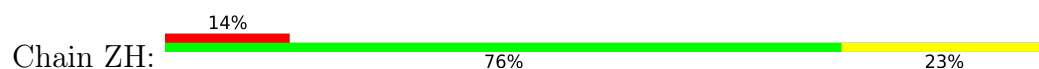


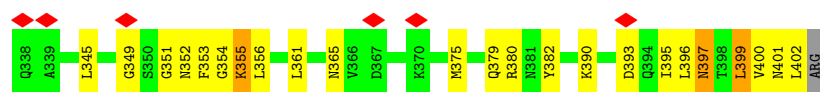


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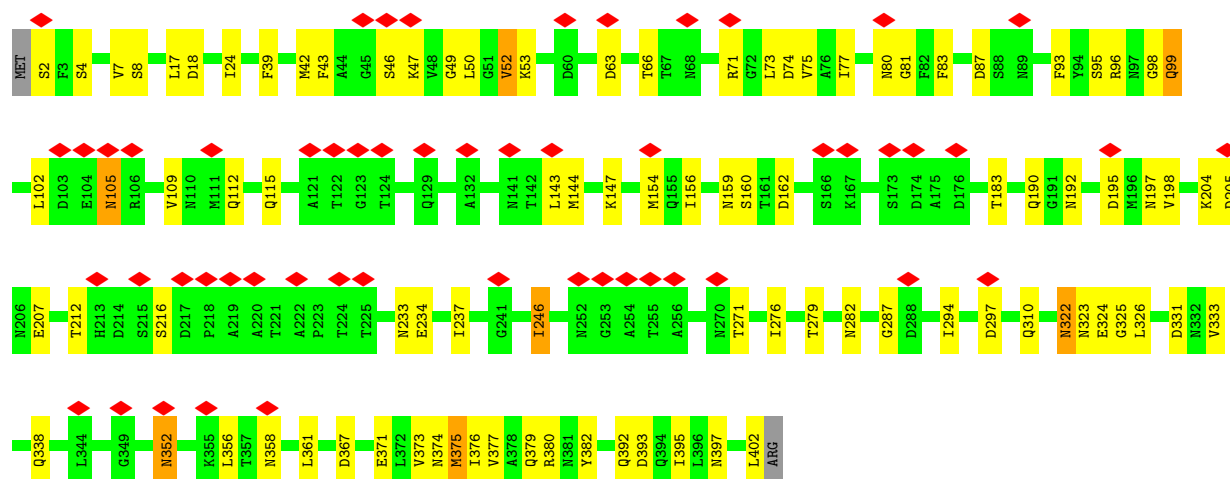
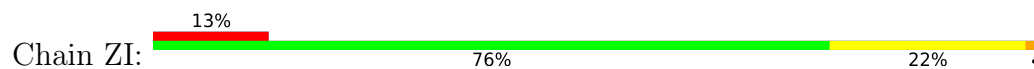


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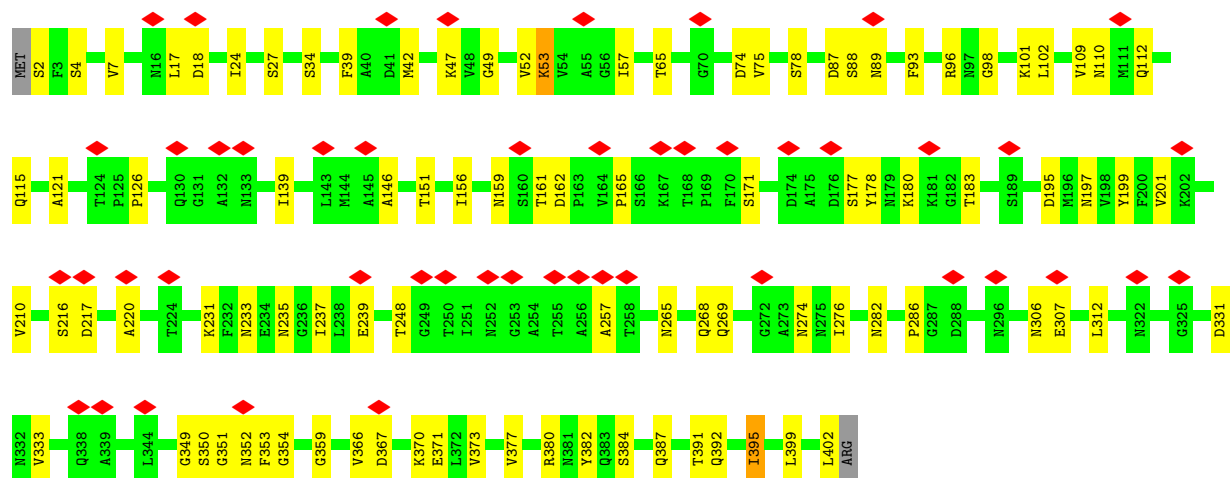
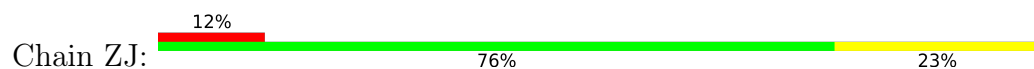




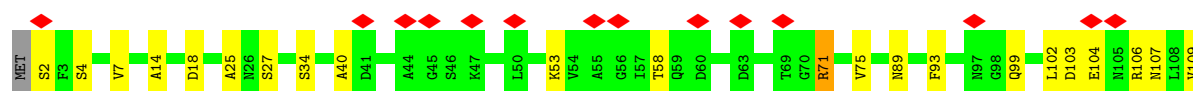
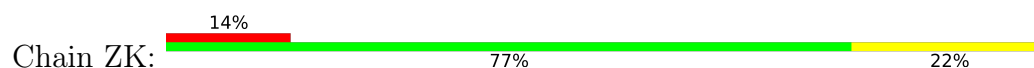
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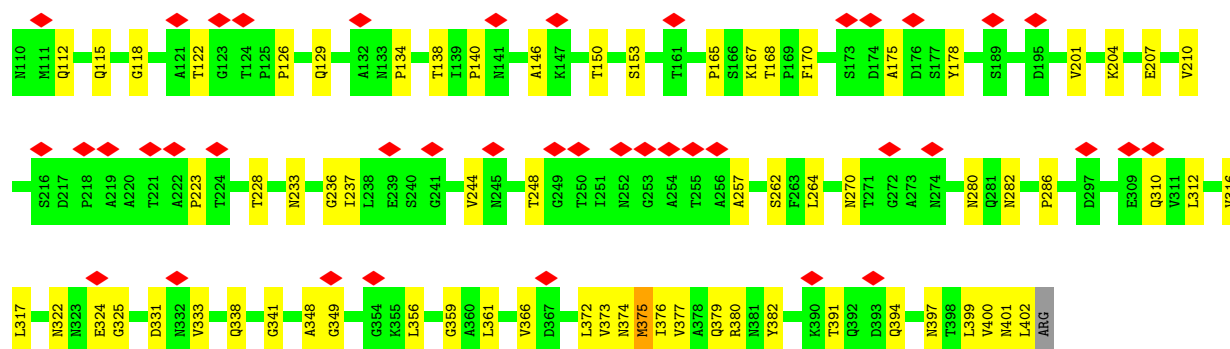


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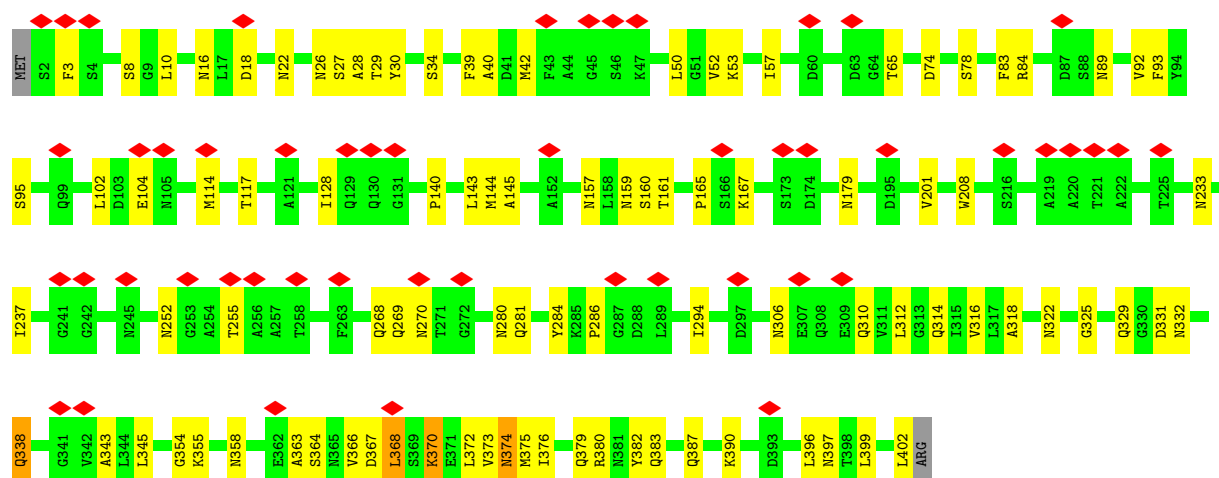
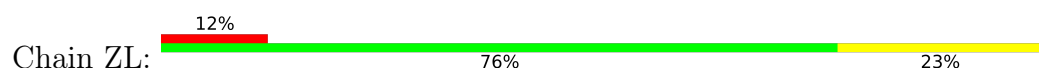


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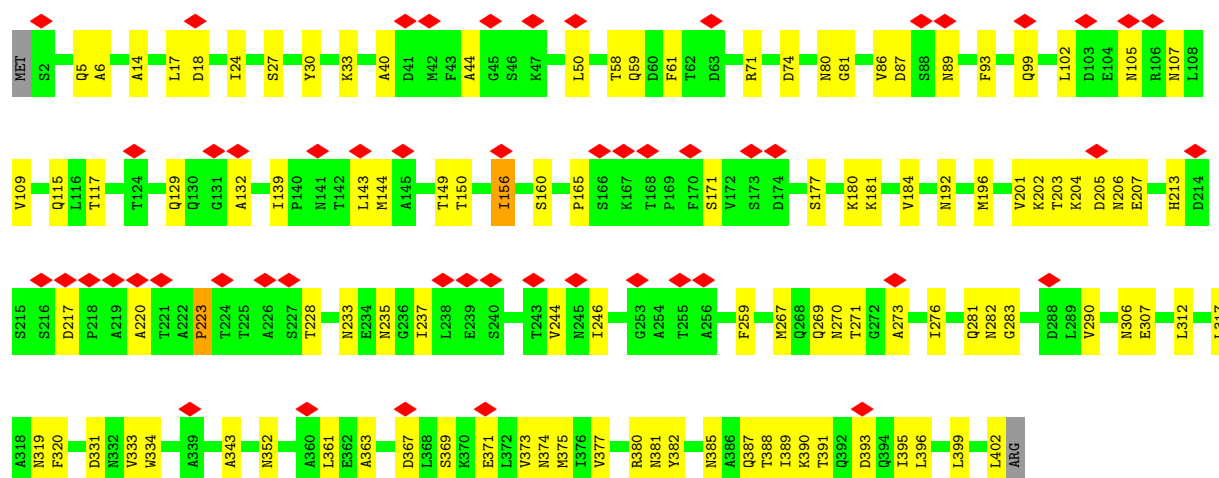
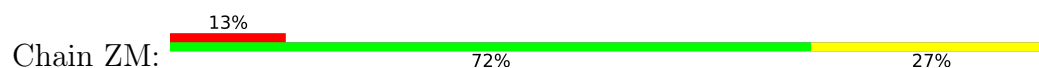




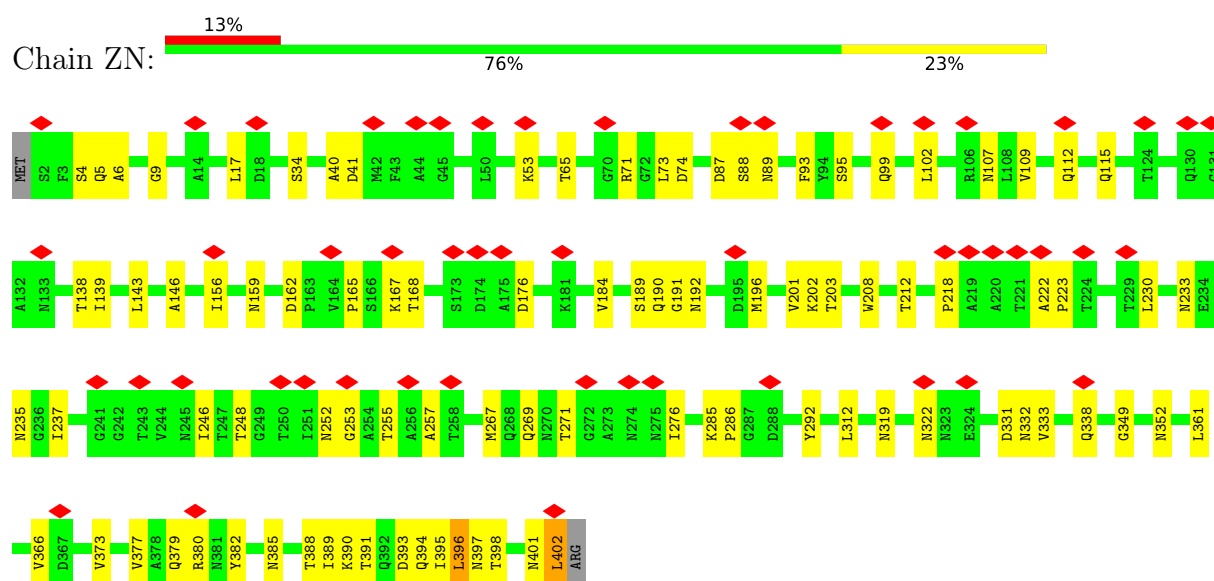
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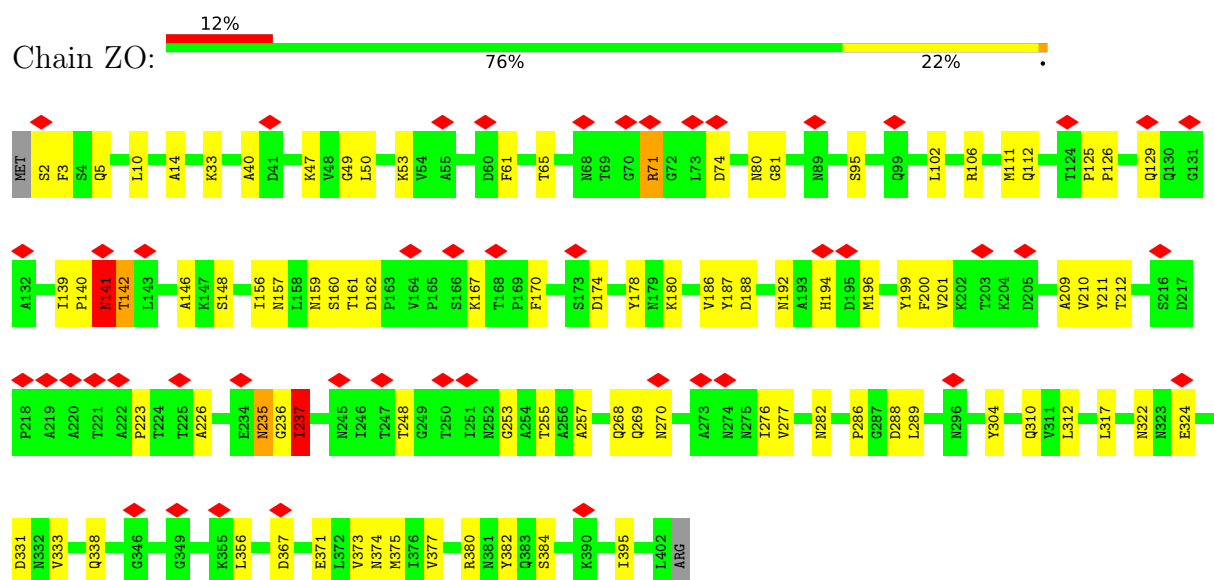
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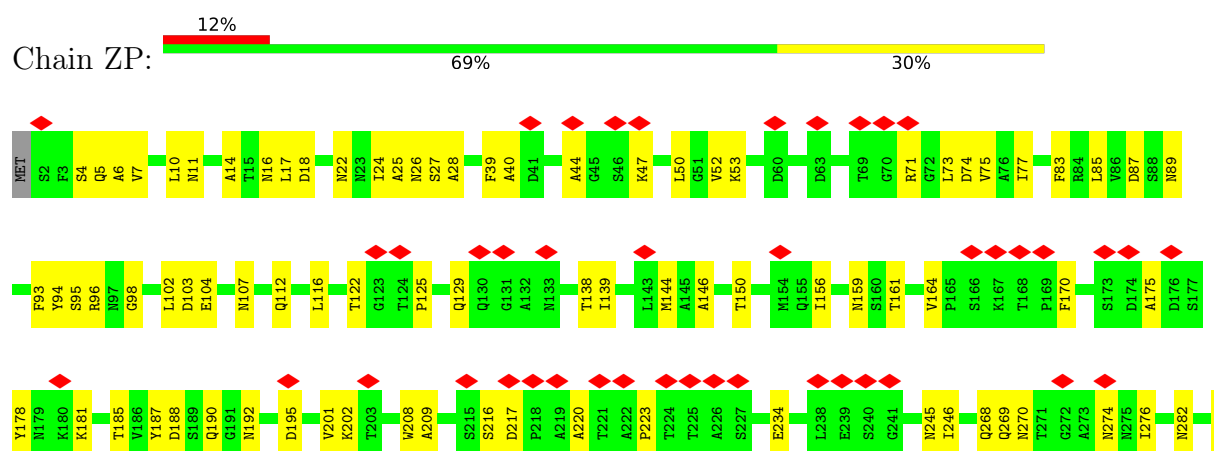
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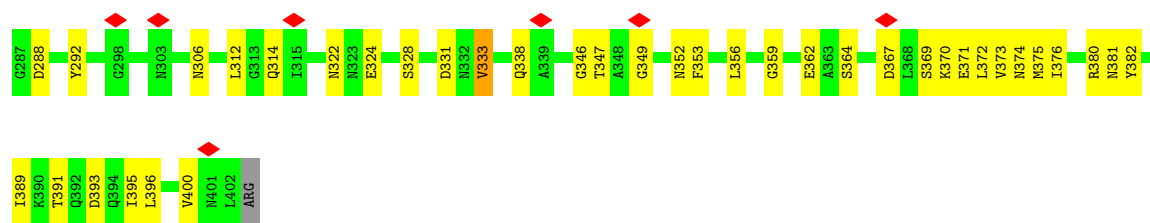


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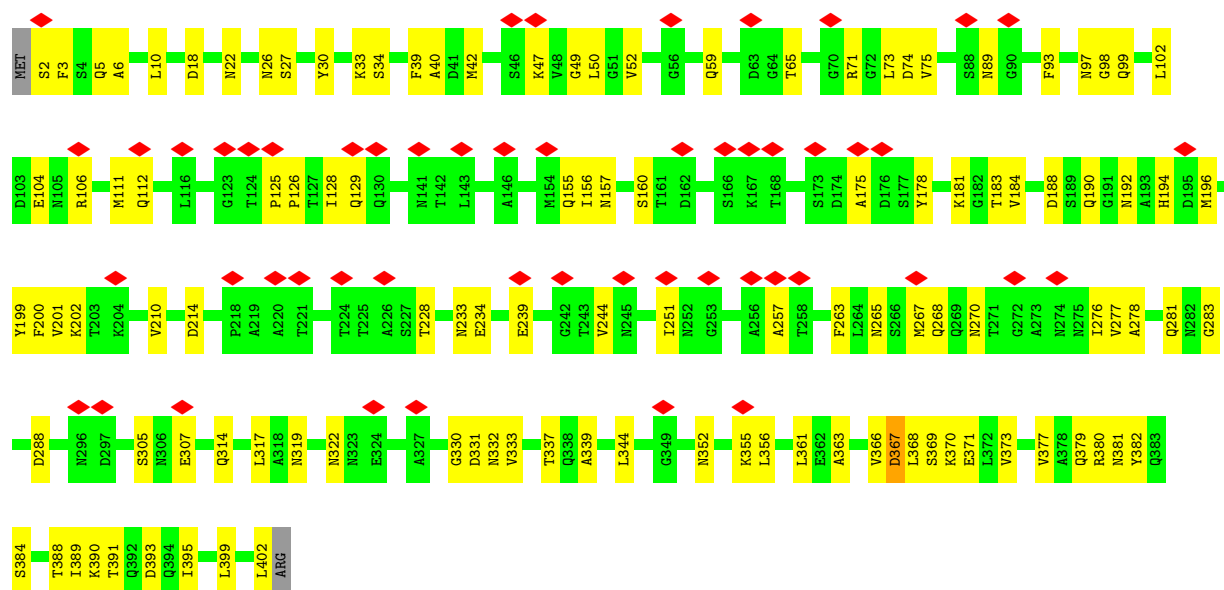
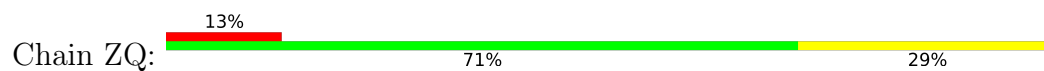


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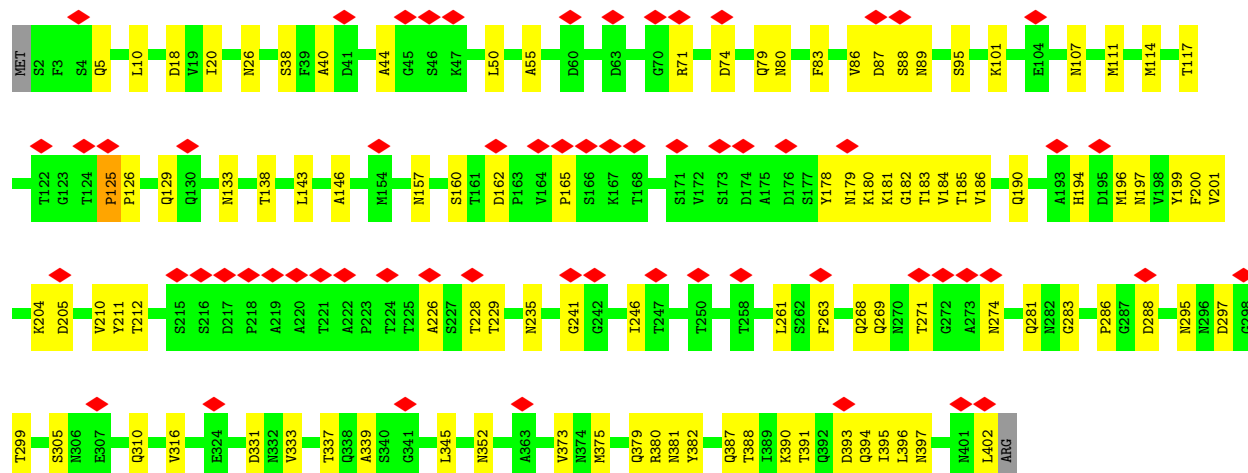
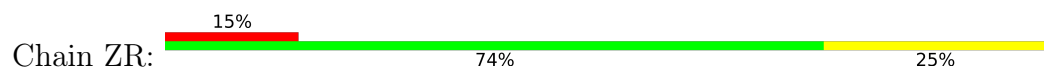




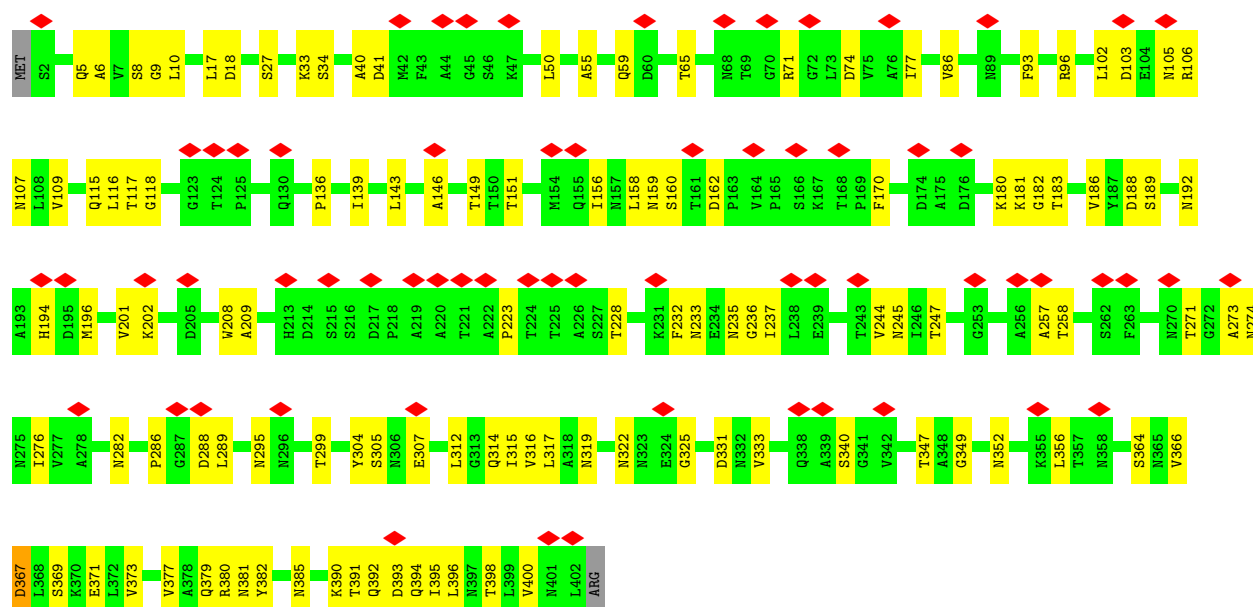
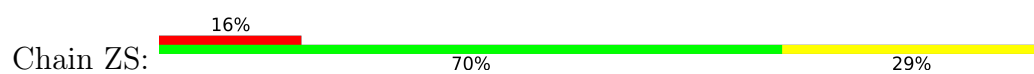
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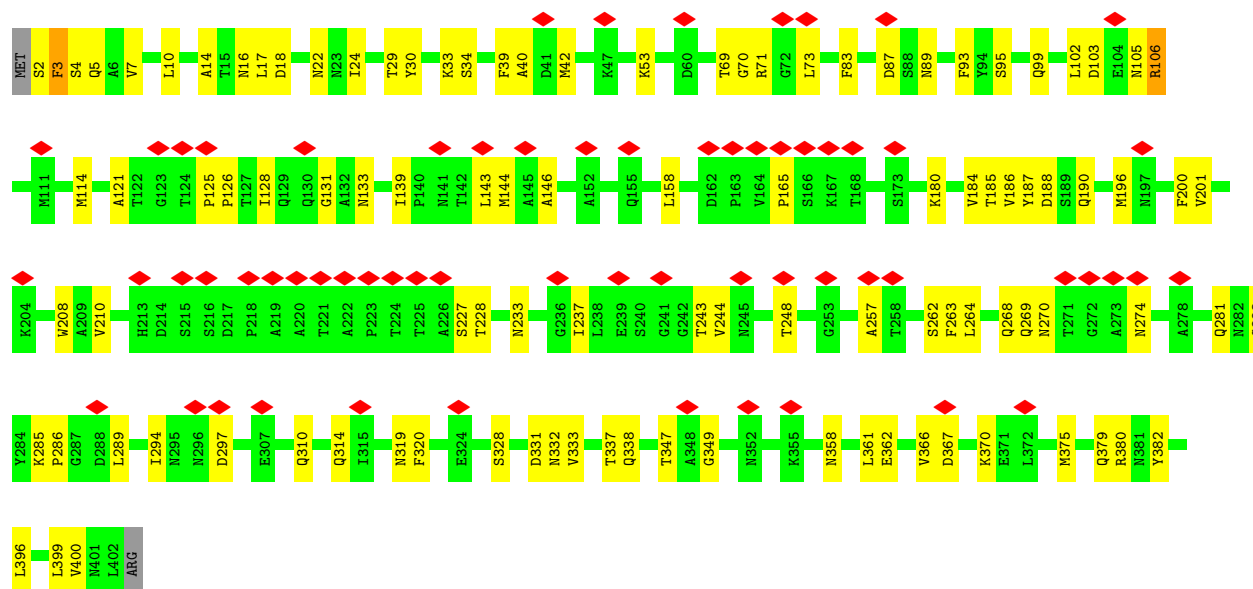
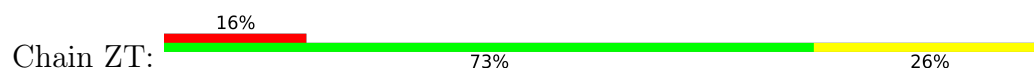
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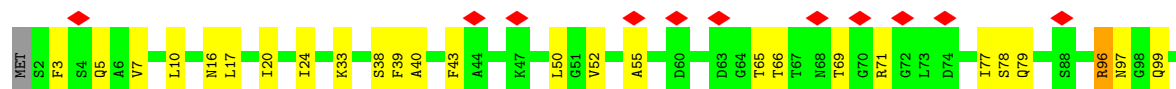
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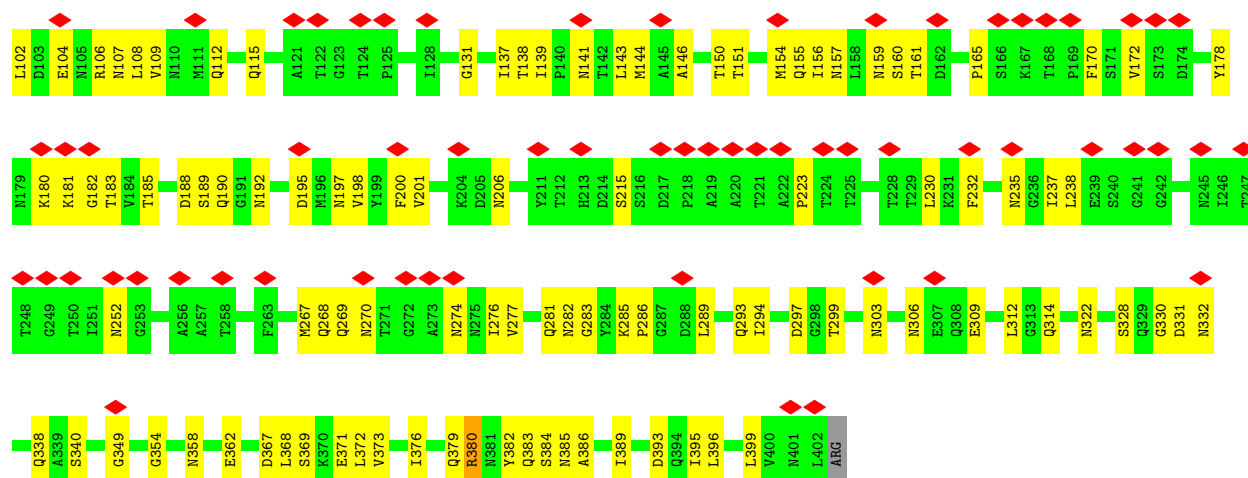


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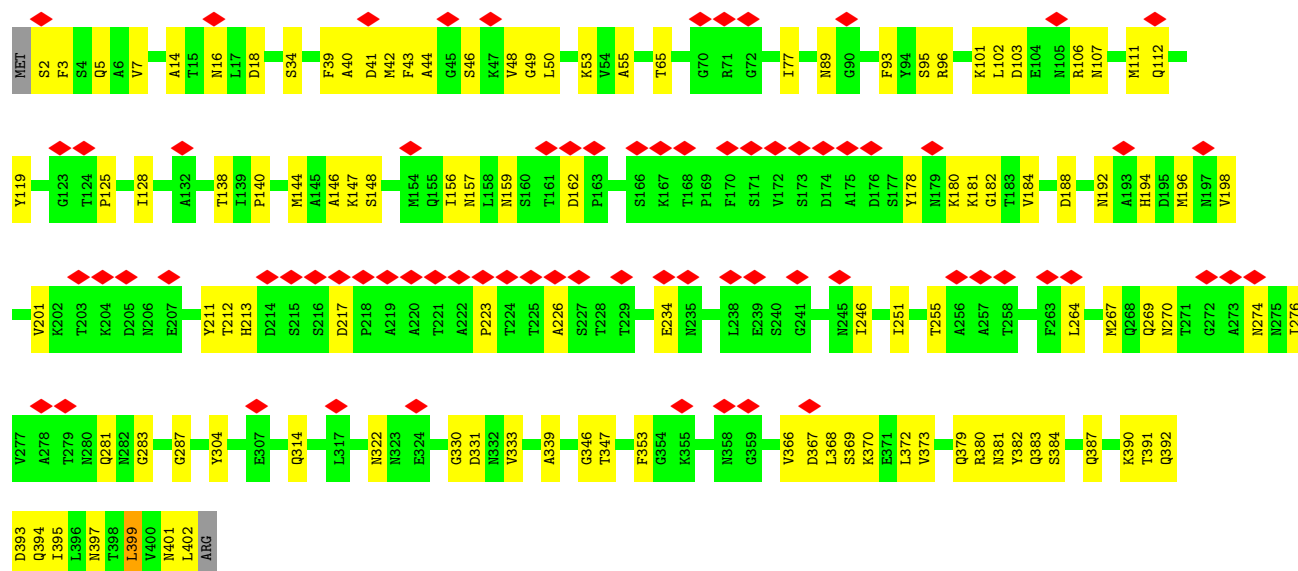
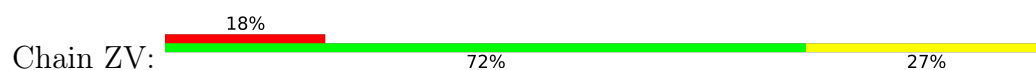


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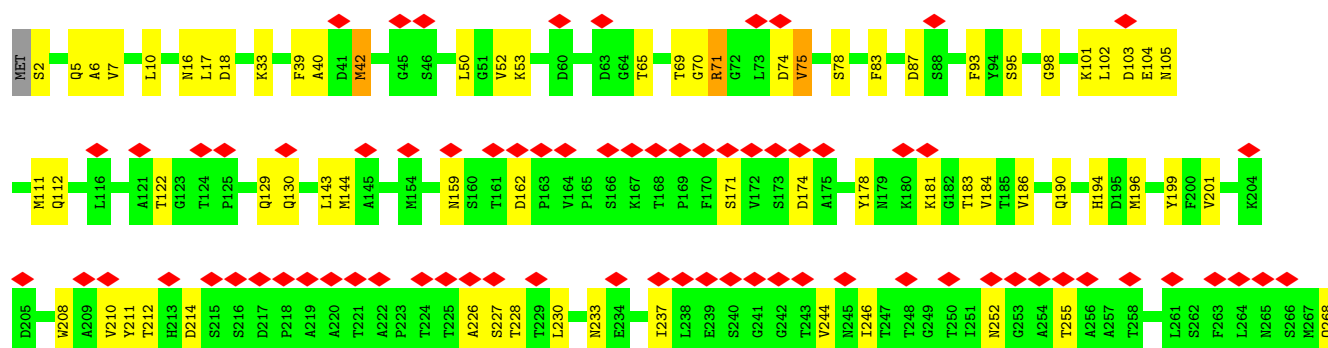
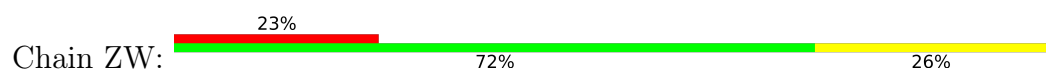


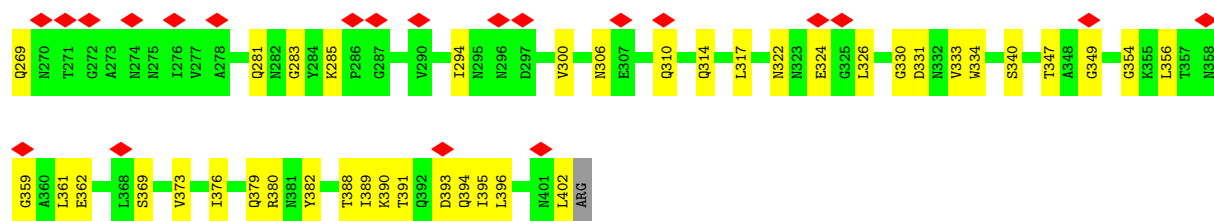


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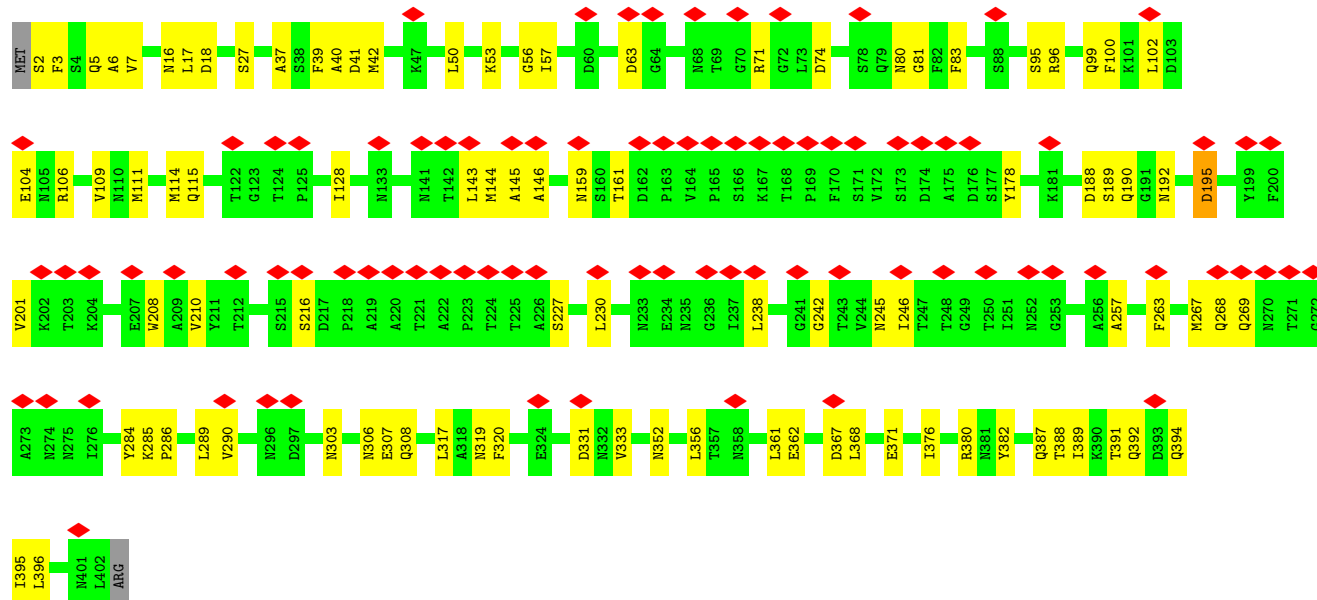
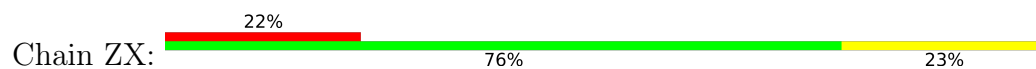


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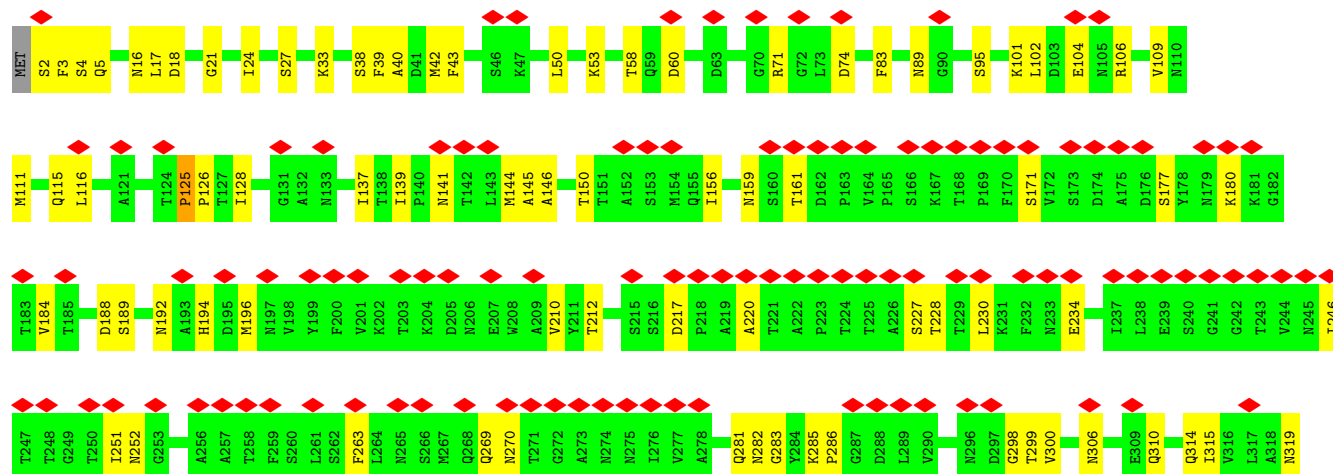
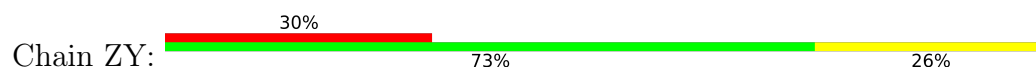


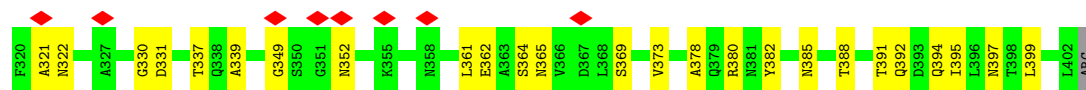


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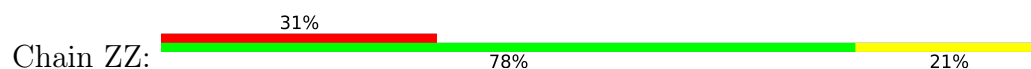


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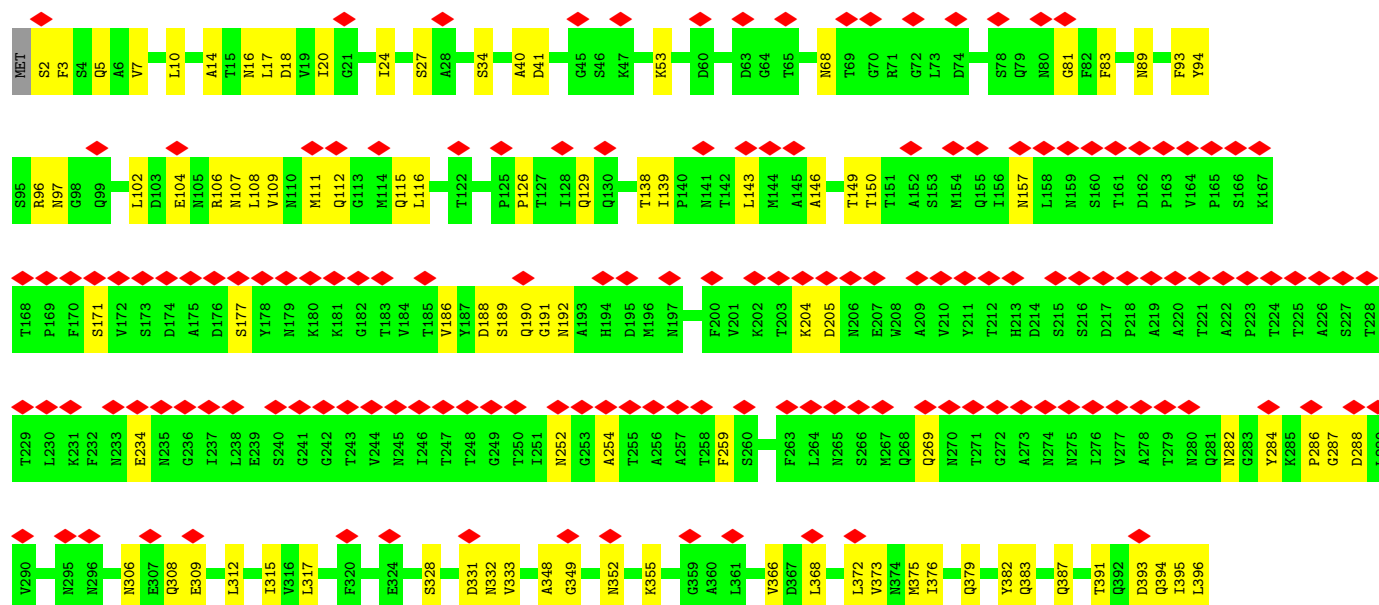
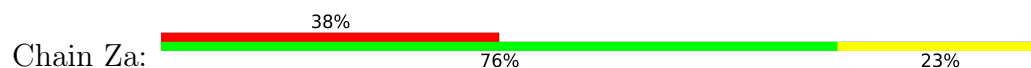




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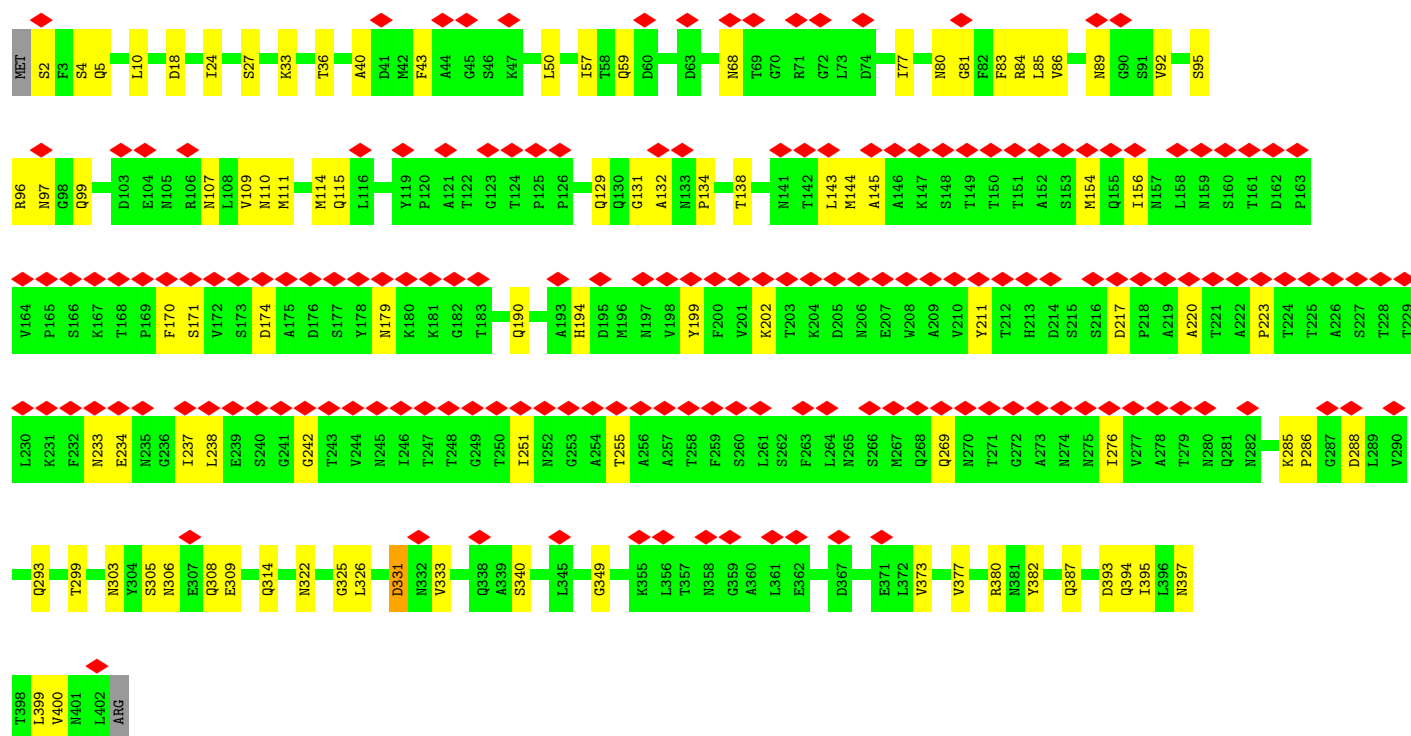
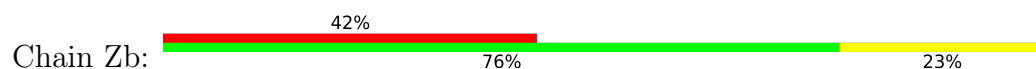


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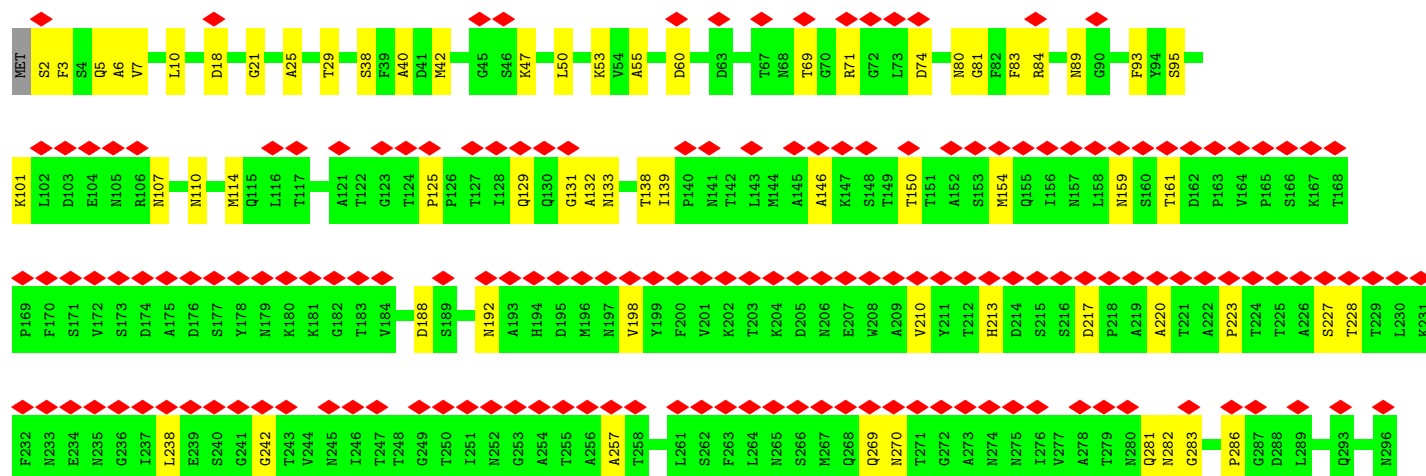
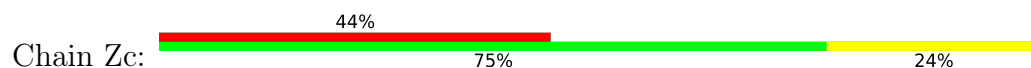


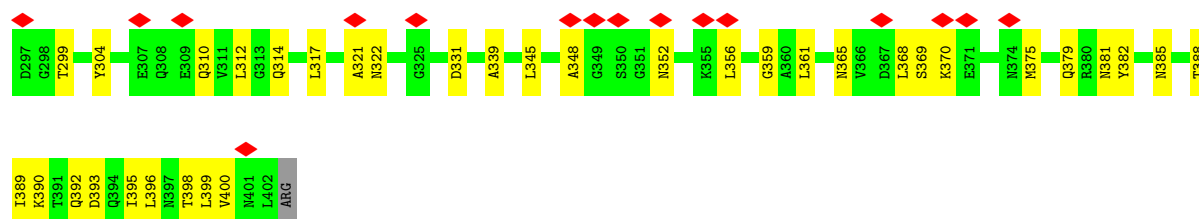


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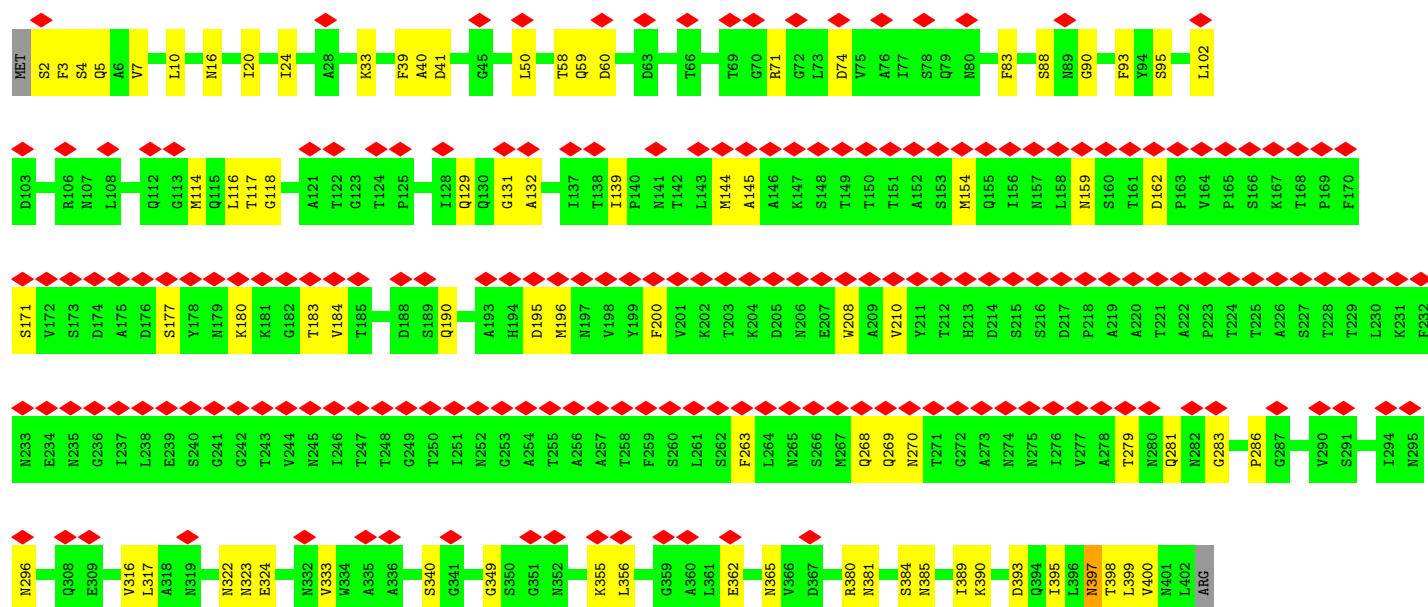
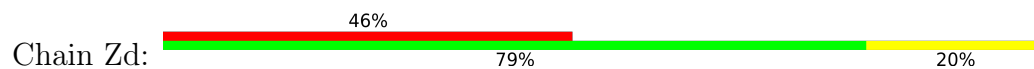


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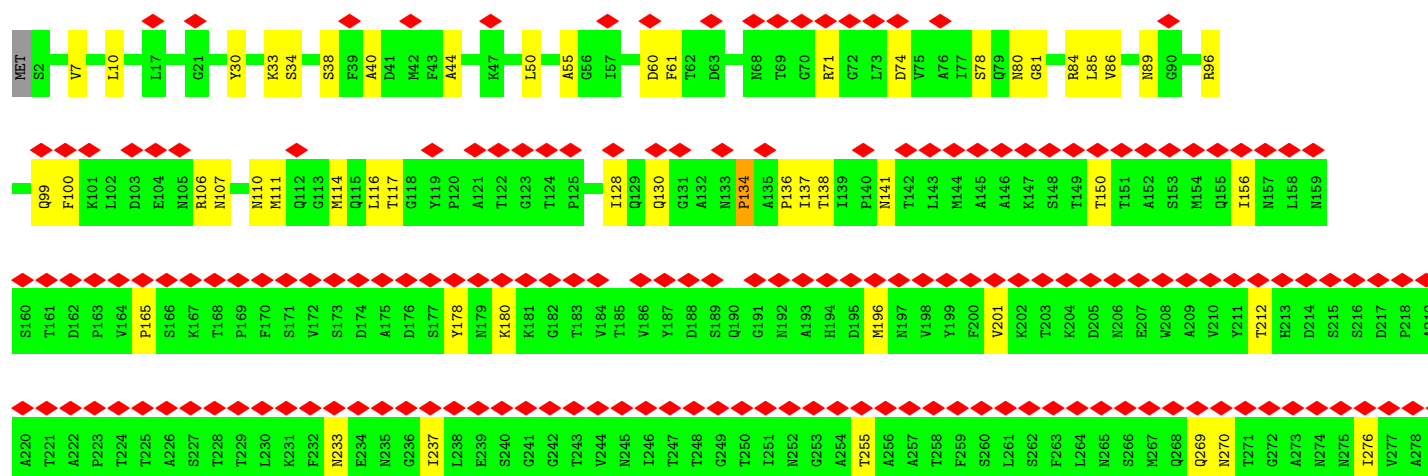
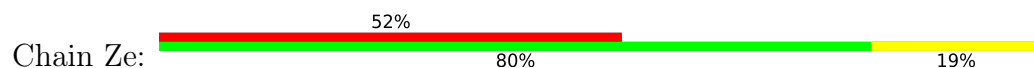


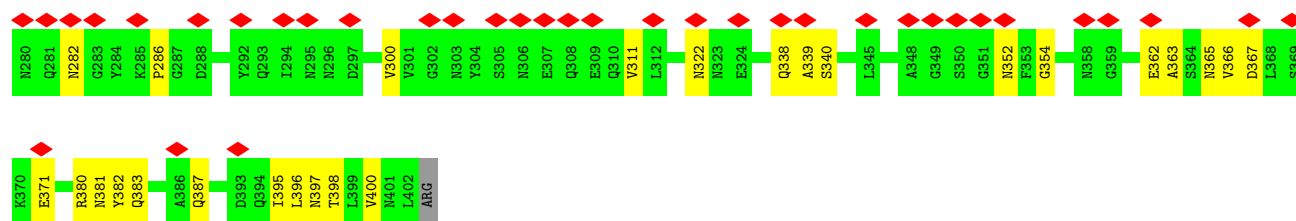


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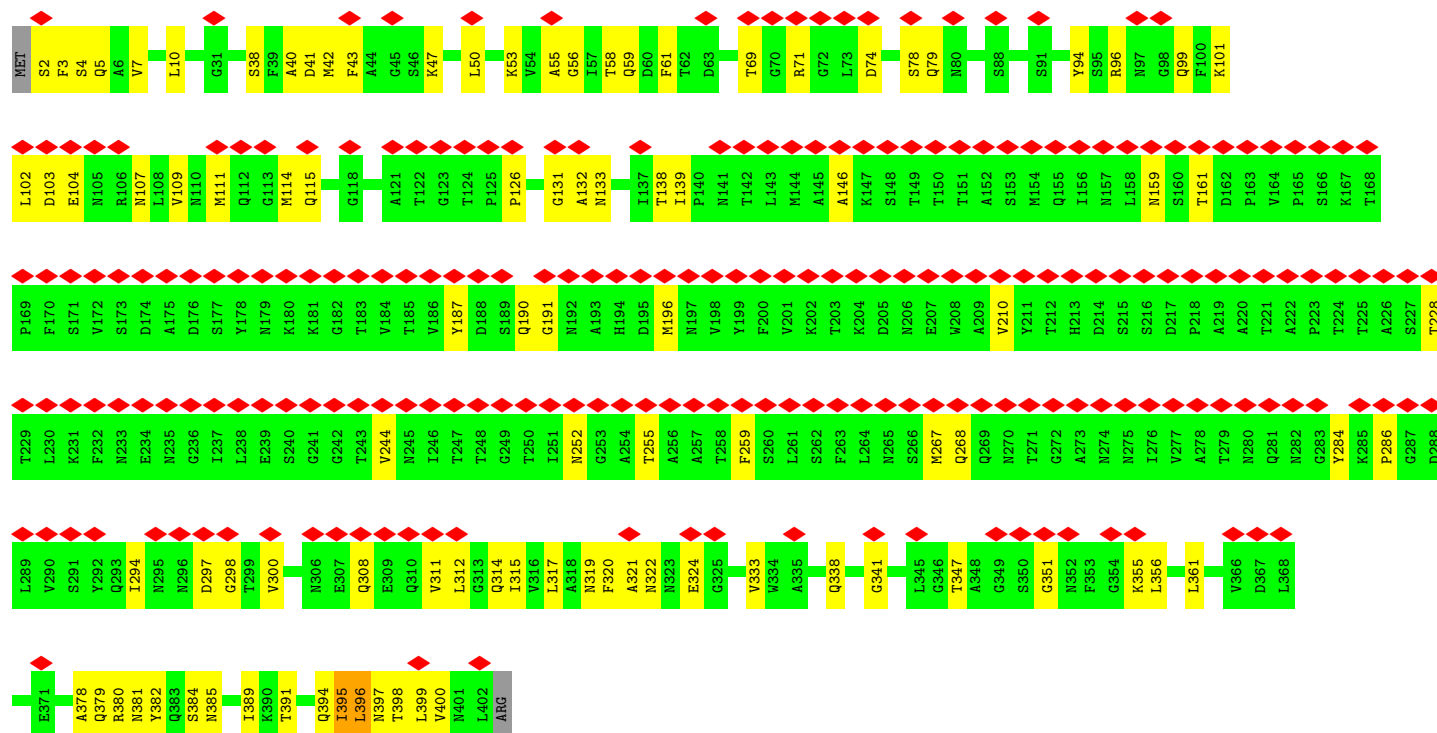
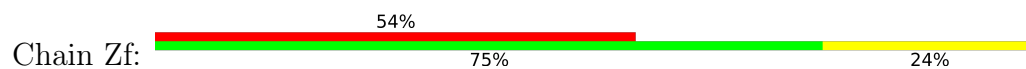


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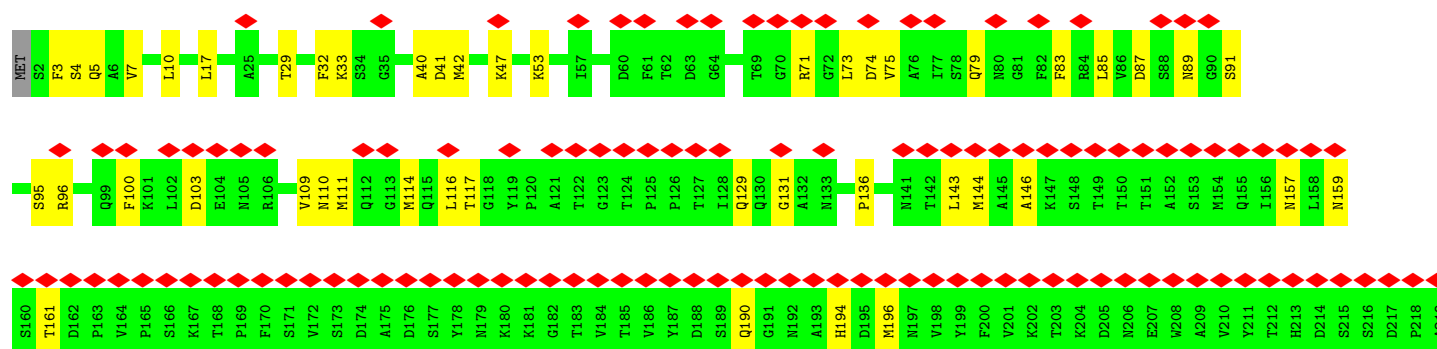
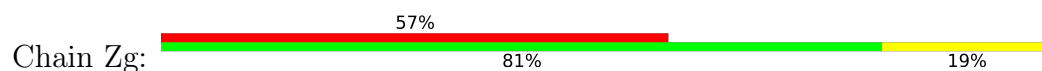


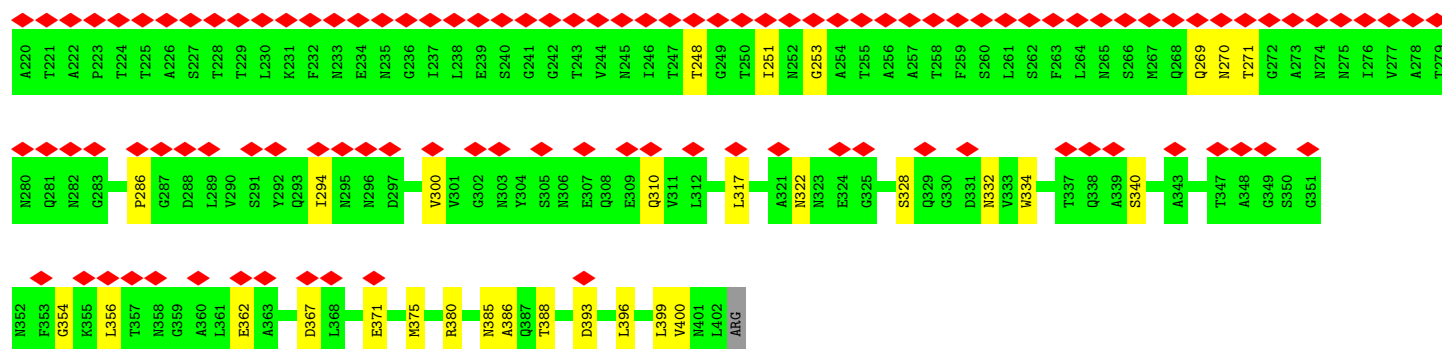


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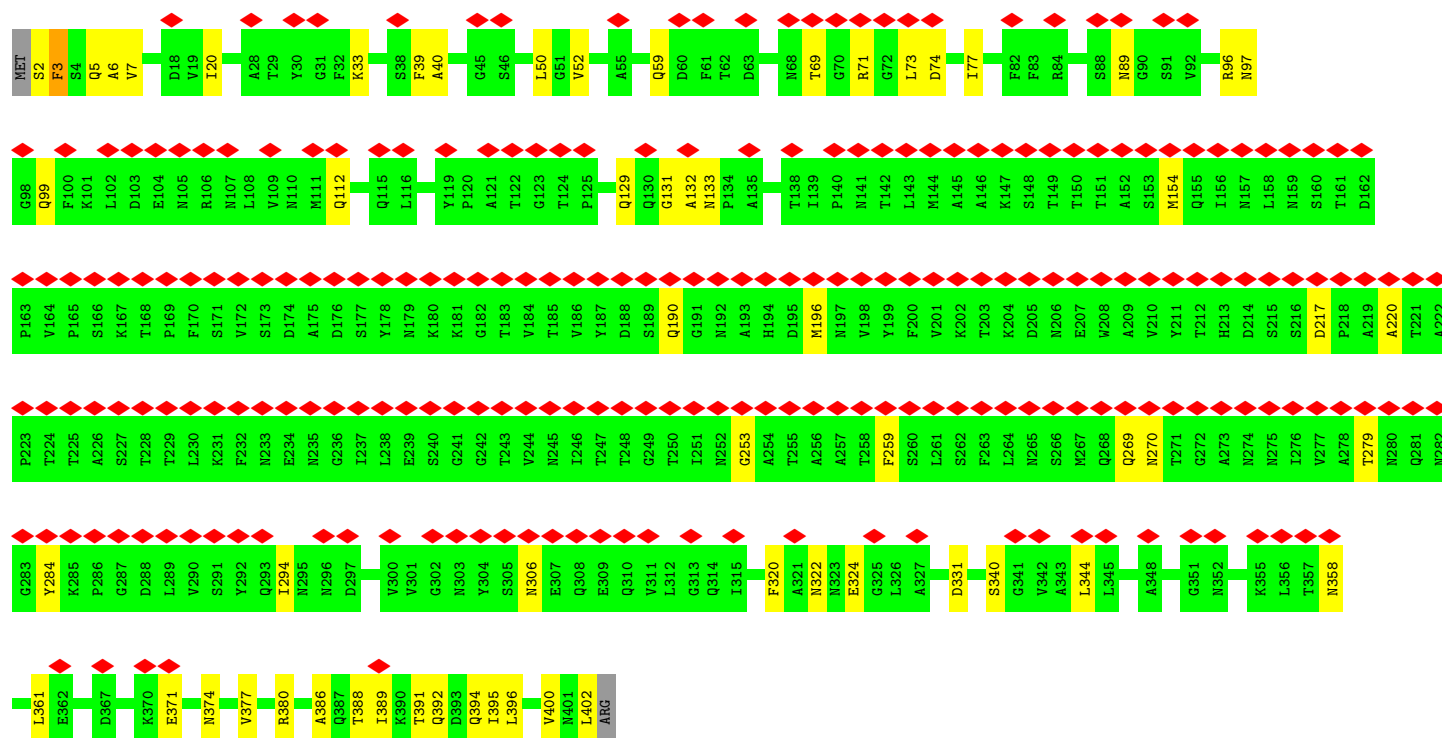
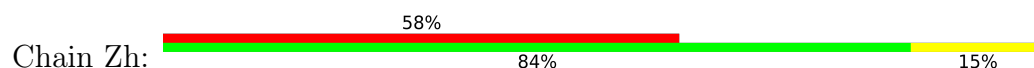


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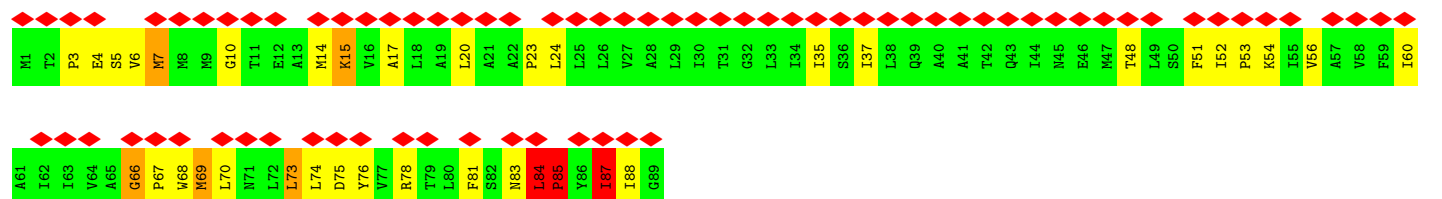
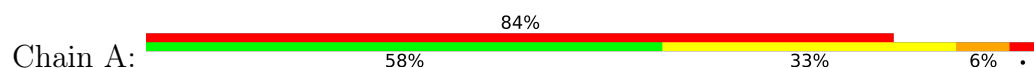




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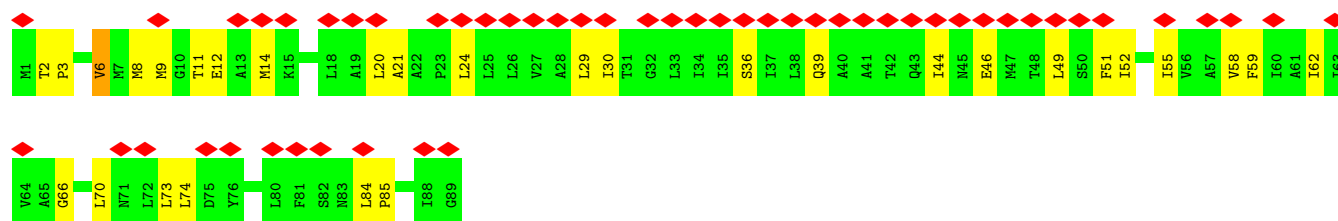


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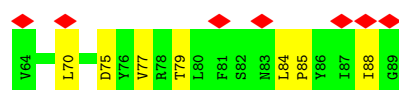
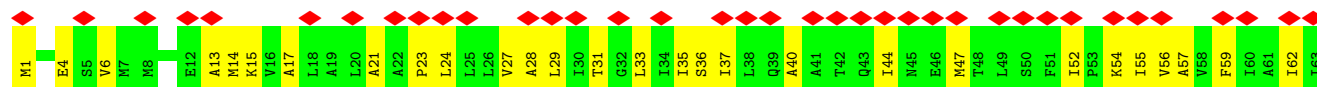


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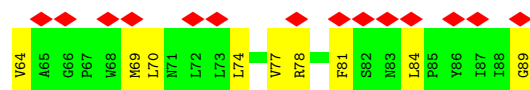
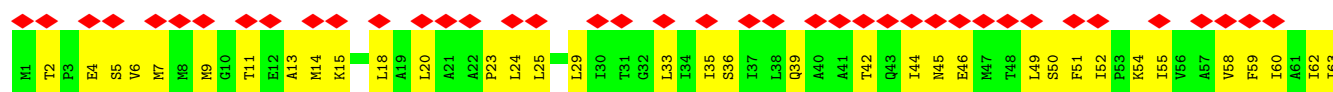




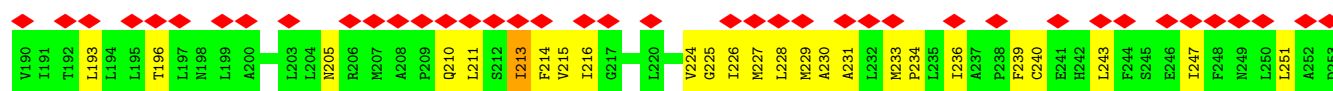
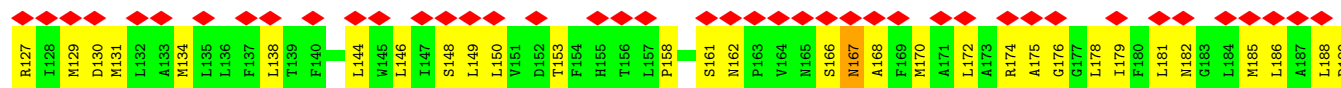
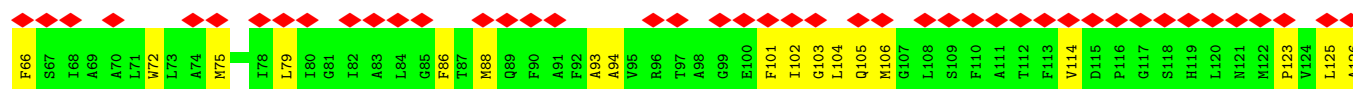
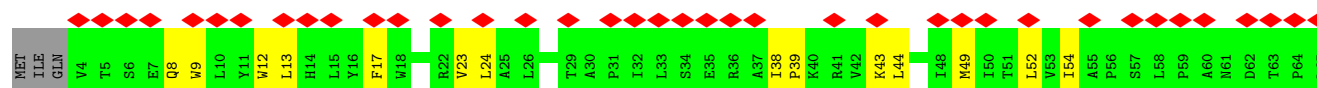
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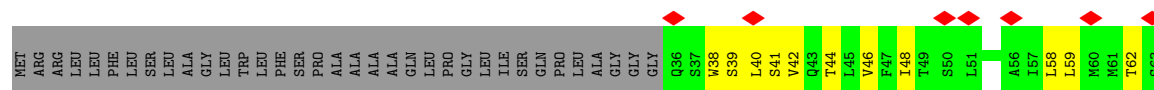


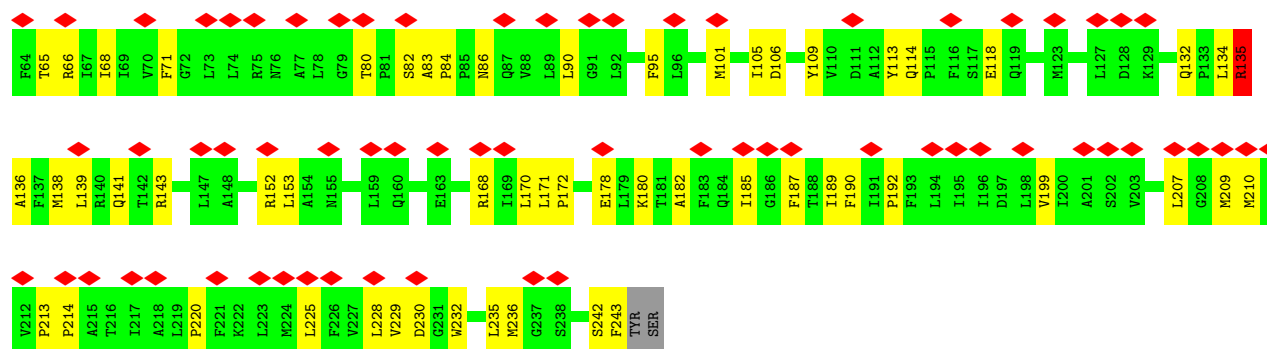
• Molecule 3: Flagellar biosynthetic protein FliQ



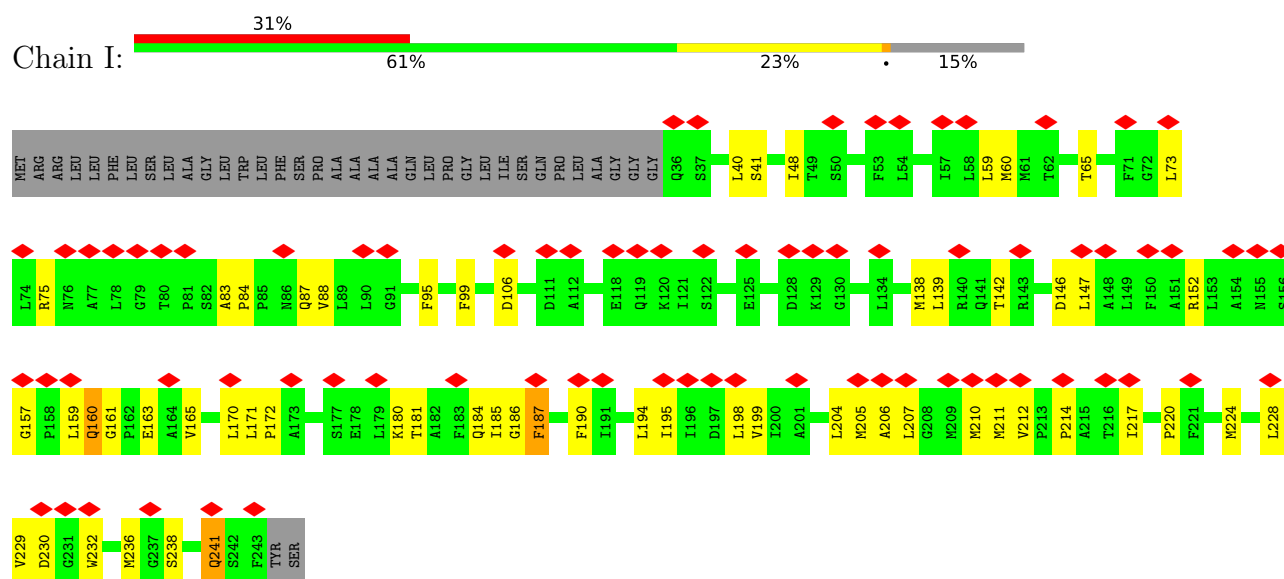
• Molecule 4: Flagellar biosynthetic protein FliR



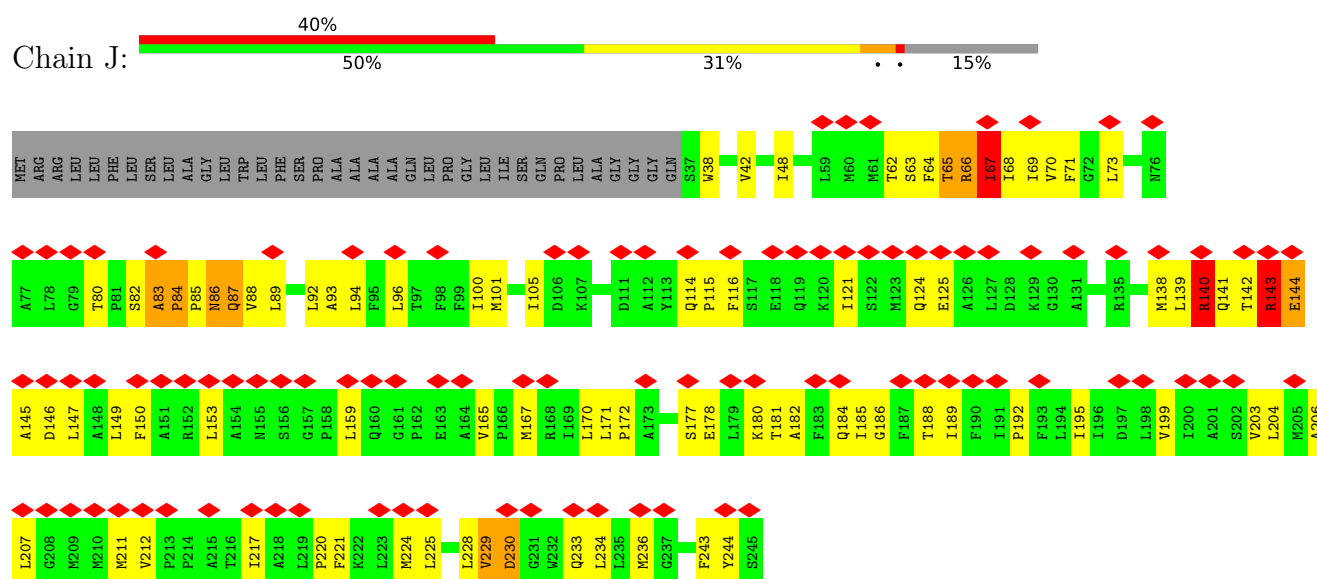




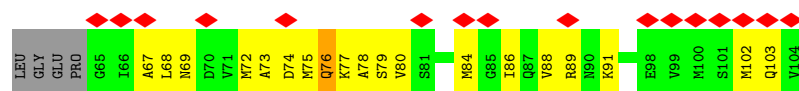
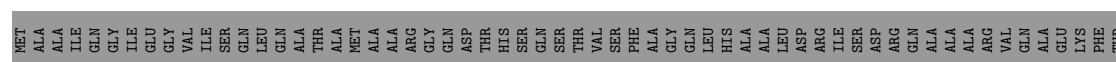
• Molecule 5: Flagellar biosynthetic protein FliP



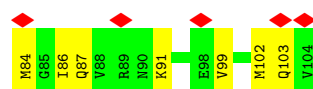
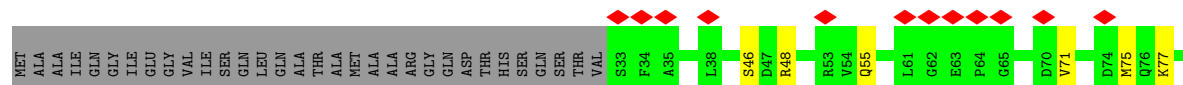
• Molecule 5: Flagellar biosynthetic protein FliP



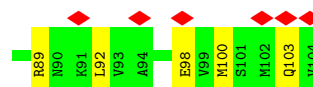
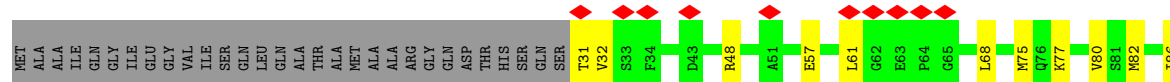
• Molecule 6: Flagellar hook-basal body complex protein FliE



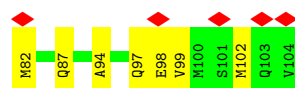
- Molecule 6: Flagellar hook-basal body complex protein FliE



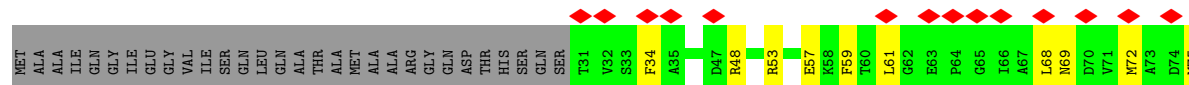
- Molecule 6: Flagellar hook-basal body complex protein FliE



- Molecule 6: Flagellar hook-basal body complex protein FliE

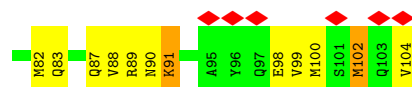
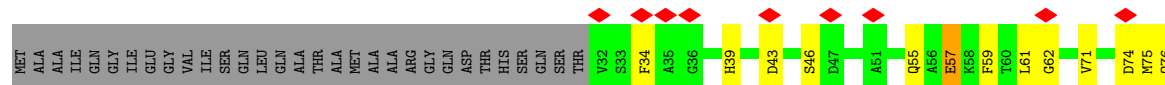


- Molecule 6: Flagellar hook-basal body complex protein FliE

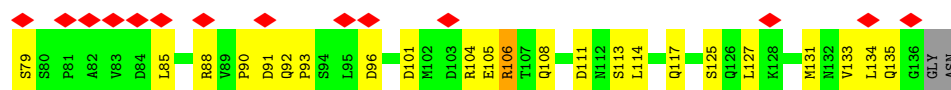
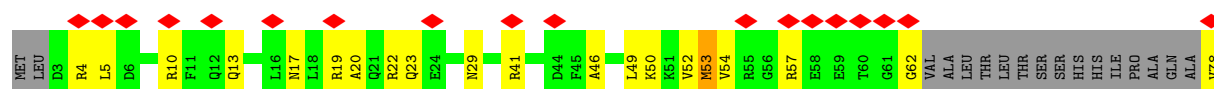




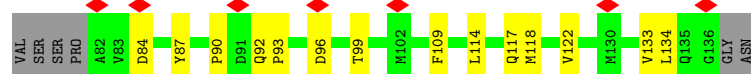
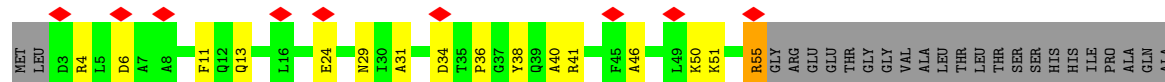
- Molecule 6: Flagellar hook-basal body complex protein FliE



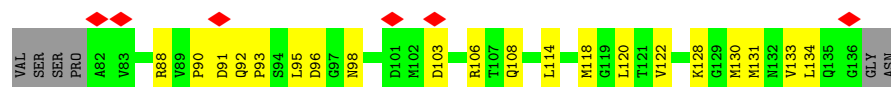
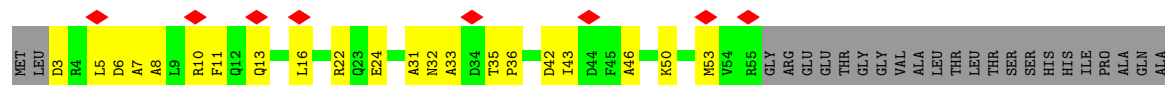
- Molecule 7: Flagellar basal body rod protein FlgB



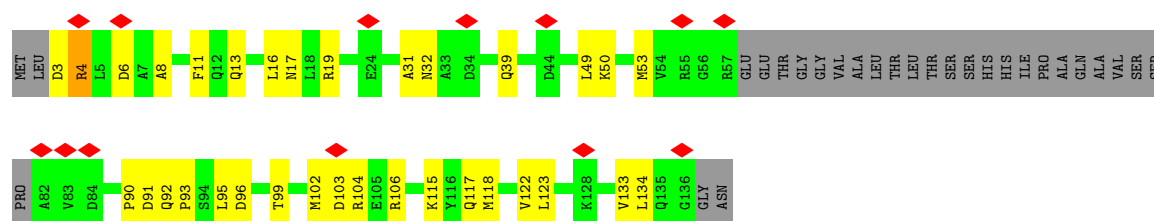
- Molecule 7: Flagellar basal body rod protein FlgB



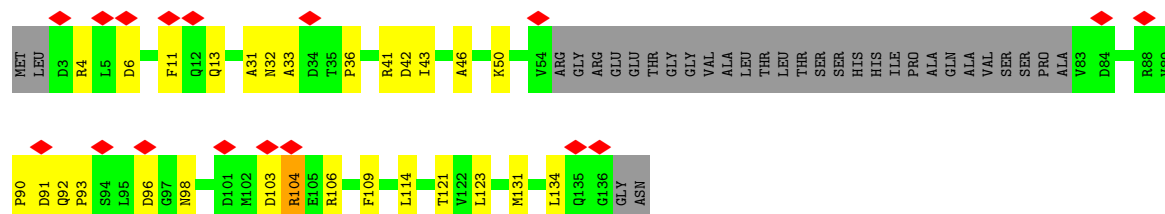
- Molecule 7: Flagellar basal body rod protein FlgB



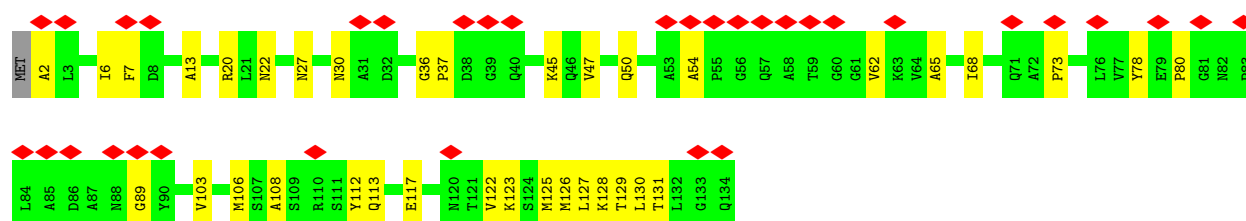
- Molecule 7: Flagellar basal body rod protein FlgB



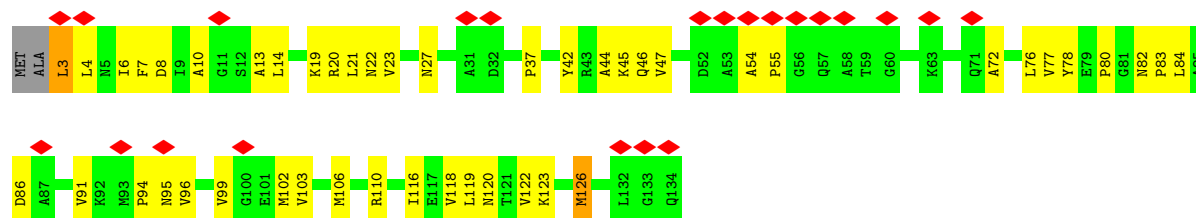
• Molecule 7: Flagellar basal body rod protein FlgB



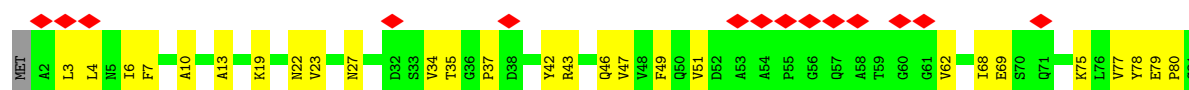
• Molecule 8: Flagellar basal-body rod protein FlgC



• Molecule 8: Flagellar basal-body rod protein FlgC

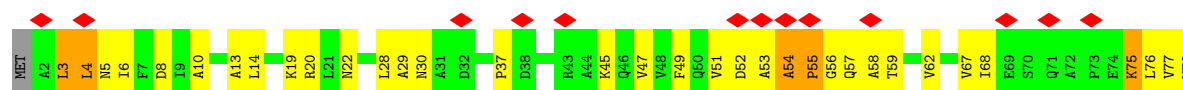


• Molecule 8: Flagellar basal-body rod protein FlgC

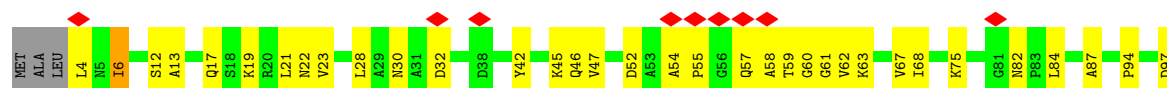




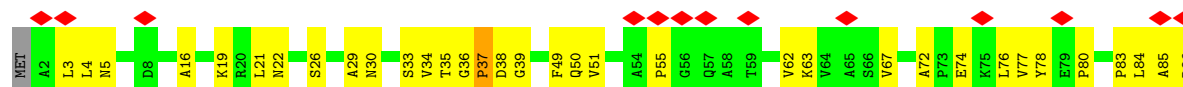
• Molecule 8: Flagellar basal-body rod protein FlgC



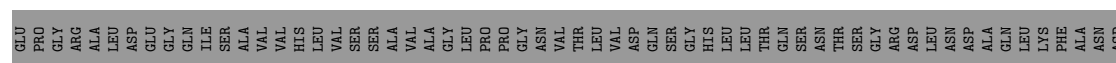
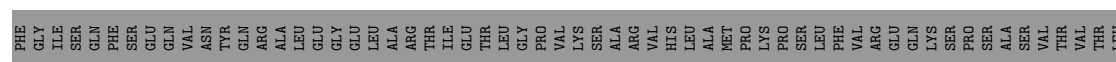
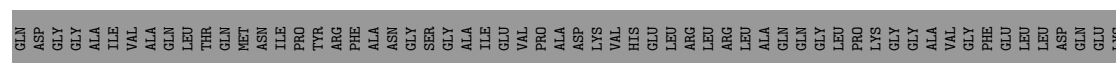
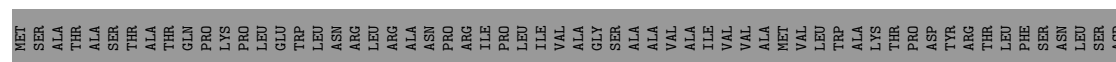
• Molecule 8: Flagellar basal-body rod protein FlgC



• Molecule 8: Flagellar basal-body rod protein FlgC



• Molecule 9: Flagellar M-ring protein



[illegible]

- Molecule 9: Flagellar M-ring protein

[illegible]

- Molecule 9: Flagellar M-ring protein



[illegible]

- Molecule 9: Flagellar M-ring protein

Chain f: 96%

NET	SER	ALA	THR	ALA	SER	THR	ALA	THR	GLN	PRO	PRO	LYS	PRO	LEU	GLU	TRP	LEU	ASN	ARG	ARG	LEU	ARG	ALA	ALA	ASN	PRO	ARG	ILE	ILE	VAL	VAL	ALA	GLY	SER	ALA	ALA	ALA	VAL	VAL	ALA	ILE	ILE	VAL	VAL	VAL	VAL	MET	VAL	VAL	LEU	LEU	TRP	THR	ALA	ALA	LYS	THR	PRO	PRO	ASP	TYR	THR	ARG	THR	ARG	LEU	PHE	SER	ASN	LEU	LEU	SER	ASN	ARG
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[illegible]

PHE	GLY	ILE	SER	GLN	PHE	SER	GLU	GLN	VAL	TYR	GLN	ARG	ALA	LEU	GLY	GLU	LEU	LEU	GLY	ARG	ALA	THR	THR	ILE	GLU	THR	LEU	LEU	GLY	PRO	VAL	LYS	SER	ALA	ARG	VAL	HIS	LEU	ALA	MET	PRO	PRO	LYS	PRO	SER	SER	LEU	VAL	VAL	GLU	ARG	GLN	LYS	SER	SER	PRO	PRO	ALA	ALA	SER	VAL	THR	VAL	THR	LEU
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GLU	PRO	GLY	ARG	ALA	LEU	ASP	GLU	GLY	GLN	ILE	SER	ALA	VAL	VAL	HIS	LEU	VAL	SER	SER	ALA	ALA	ALA	GLY	ALA	LEU	PRO	PRO	GLY	ASN	VAL	THR	THR	LEU	VAL	ASP	GLN	SER	GLY	HIS	LEU	LEU	THR	GLN	SER	ASN	ASN	ASP	ALA	GLN	LEU	LYS	PHE	ALA	ASN	ASP
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VAL	GLU	SER	ARG	ILE	GLN	ARG	ARG	GLU	ILE	ALA	ALA	LEU	SER	PRO	ILE	VAL	GLY	ASN	GLY	GLY	ASN	VAL	VAL	HIS	ALA	ALA	GLN	GLN	LEU	ASP	PHE	ALA	ALA	ASN	ASN	LYS	GLU	GLN	THR	THR	GLU	GLU	GLY	ASP	ALA	SER	LYS	PRO	SER	TYR	HIS	THR	LEU	ARG	THR	GLN	ARG	SER	ASN	ILE
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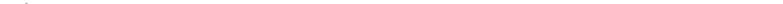
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VAL	ASN	SER	PRO	PRO	PHE	SER	ALA	VAL	ASP	ASN	THR	GLY	GLY	LEU	LEU	PRO	PHE	TRP	GLN	GLN	GLN	SER	PHE	ILE	ASP	GLN	LEU	LEU	ALA	ALA	GLY	ARG	TRP	LEU	LEU	VAL	LEU	VAL	VAL	ALA	ALA	LYS	ARG	THR	THR	LEU	ARG	ARG	VAL	GLU	GLU	ALA	YS
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ALA	ALA	ALA	GLN	GLU	GLN	ALA	GLN	VAL	ARG	GLN	GLU	THR	GLU	GLU	VAL	ARG	LEU	SER	LYS	ASP	GLU	GLN	LEU	GLN	GLN	ARG	ARG	ALA	ALA	ASN	GLN	ARG	LEU	GLY	ALA	GLU	VAL	VAL	MET	SER	SER	GLN	ARG	ILE	ASP	ASP	PRO	ARG	VAL	VAL	ALA	ALA	LEU	VAL	ILE	ARG
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GLN
TRP
MET
SER
ASN
ASP
HIS
GLU

- Molecule 9: Flagellar M-ring protein

Chain g:  97%

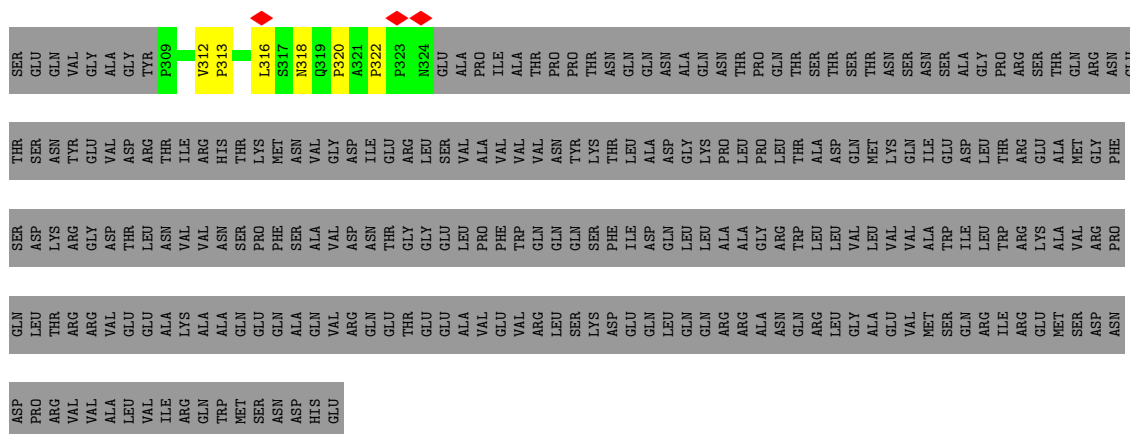
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GLN ASP GLY GLY ALA ILE VAL ALA LEU LEU THR MET ASN ILE PRO ARG PHE ALA ALA GLY SER GLY ALA ILE GLU VAL VAL PRO ASP LYS VAL HIS GLU LEU ARG LEU ARG LEU LEU GIN GIN GLY GLY LEU LEU PRO PRO LYS GLY GLY VAL VAL PHE GLY GLU LEU LEU ASP ASP GLN GLN GLY YS

PHE
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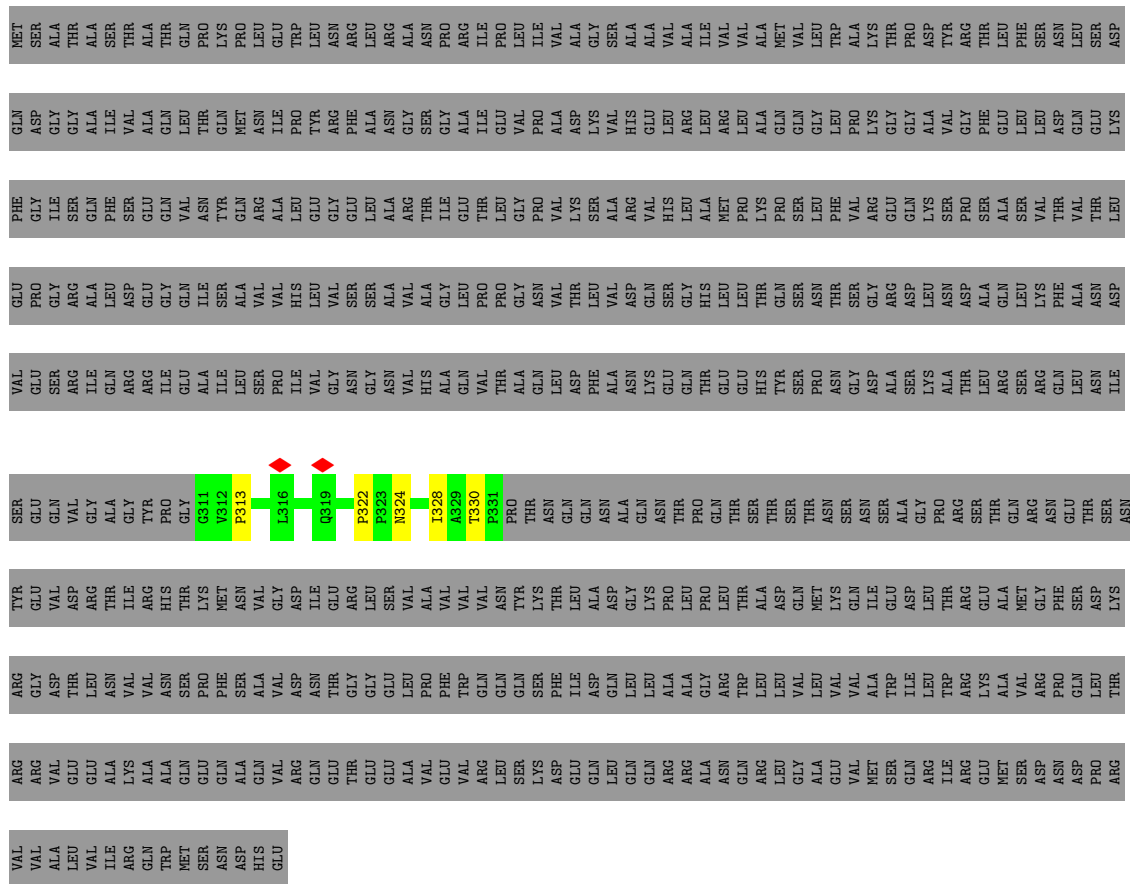
GLU	PRO	GLY	ARG	ALA	LEU	ASP	GLU	GLY	GLN	ILE	SER	ALA	VAL	VAL	HIS	LEU	VAL	SER	SER	ALA	VAL	ALA	ALA	GLY	LEU	PRO	PRO	GLY	ASN	VAL	THR	THR	LEU	THR	GLN	SER	ASN	THR	SER	GLY	ARG	ASP	LEU	ASN	ASP	ALA	GLN	LEU	LYS	PHE	LYS	ALA	ALA	ASN	ASN	ASP
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VAL	GLU	SER	ARG	ILE	GLN	ARG	ARG	ILE	GLU	ALA	ALA	ILE	LEU	SER	PRO	ILE	VAL	GLY	ASN	GLY	VAL	THR	ALA	ALA	ALA	GLN	LEU	ASP	PHE	ALA	ASN	LYS	GLU	GLN	GLU	THR	GLU	GLY	ASP	ALA	SER	LYS	ARG	GLN	LEU	ASN	ILE
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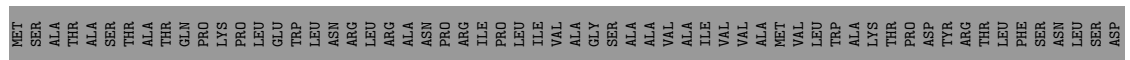
- Molecule 9: Flagellar M-ring protein

Chain h: 96%



- Molecule 9: Flagellar M-ring protein

Chain i: 97%



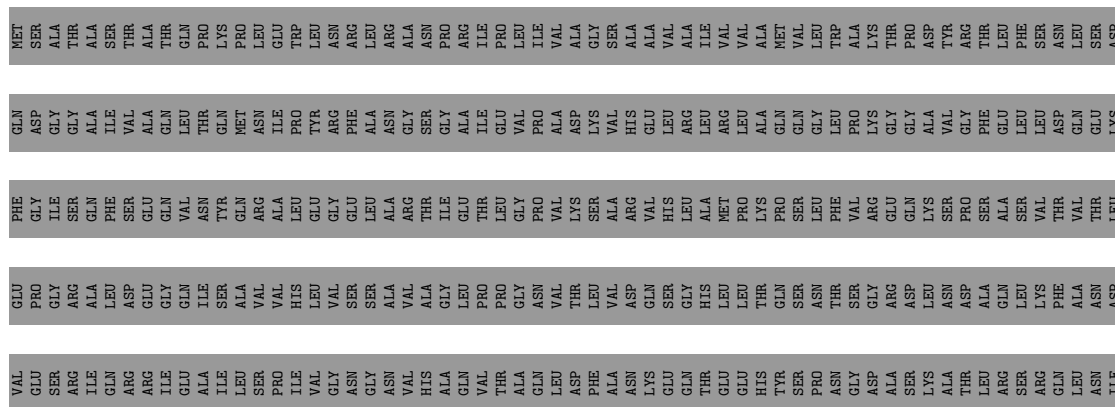
[illegible]

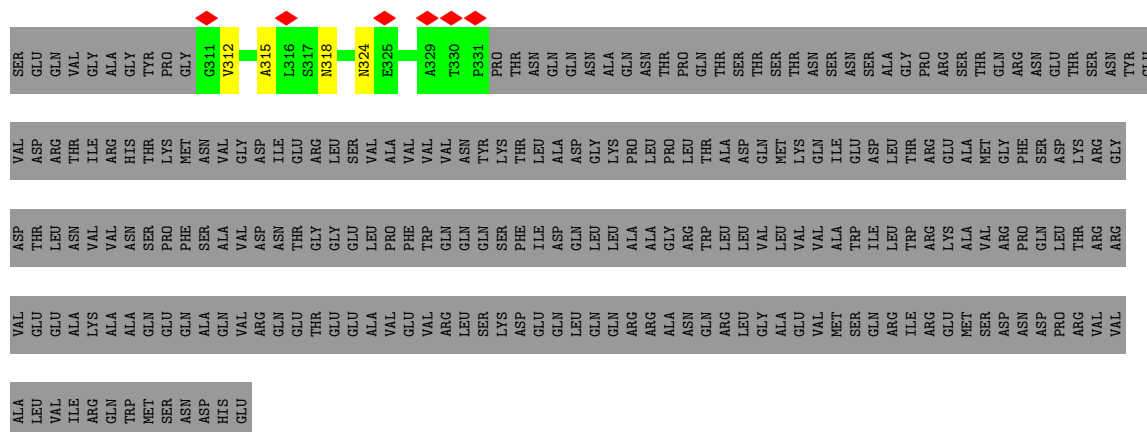
- Molecule 9: Flagellar M-ring protein

Chain j: .. 96%

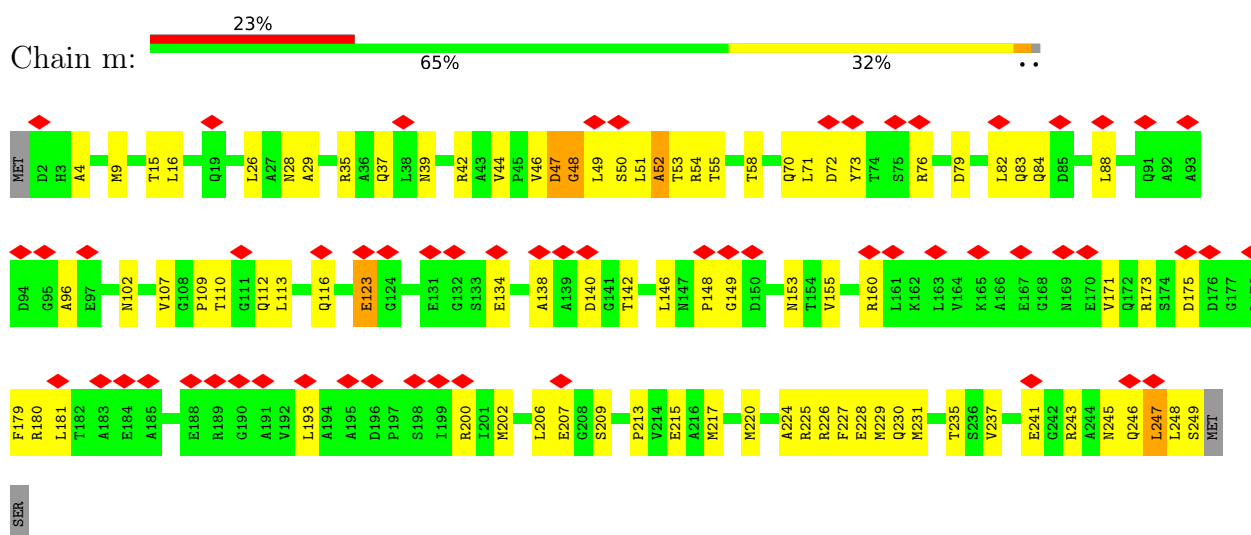
[illegible]

Chain k: 97%

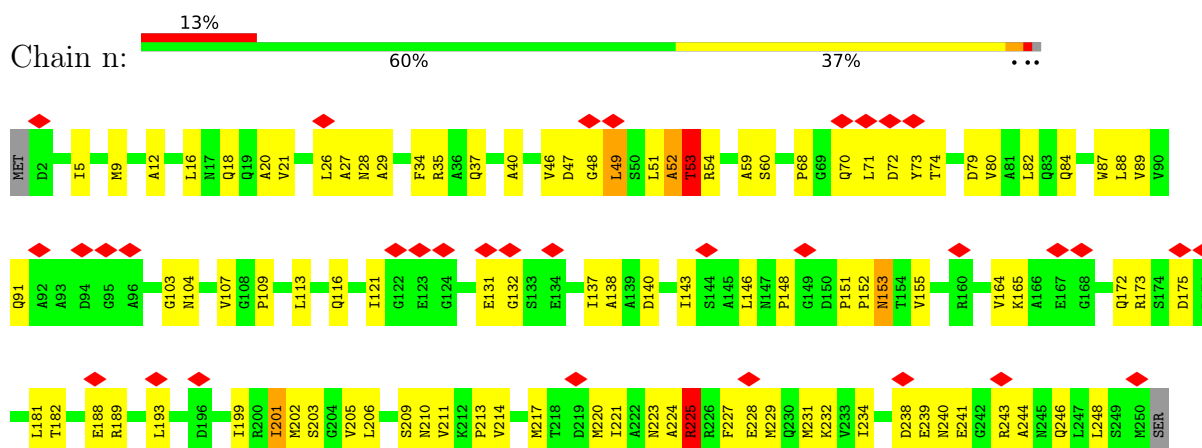




• Molecule 10: Flagellar basal-body rod protein FlgF

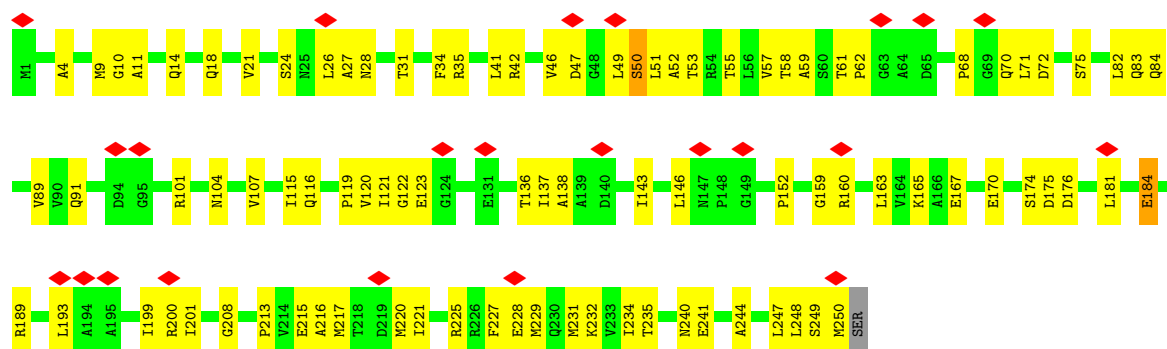


• Molecule 10: Flagellar basal-body rod protein FlgF

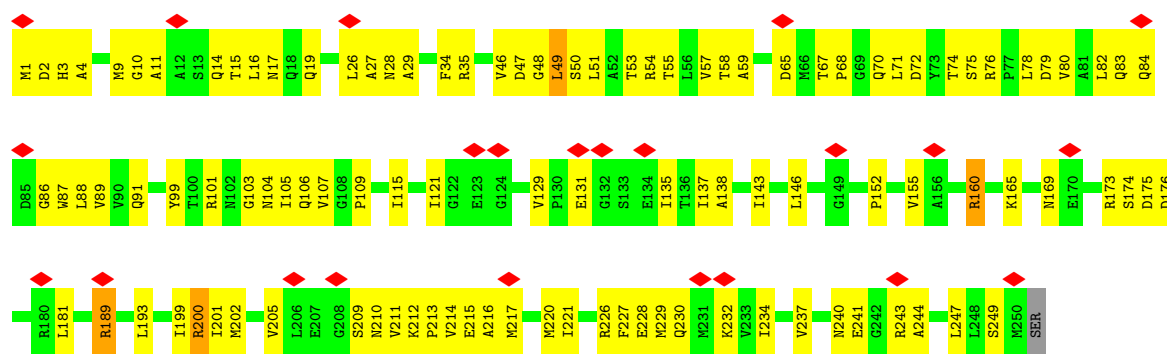


• Molecule 10: Flagellar basal-body rod protein FlgF

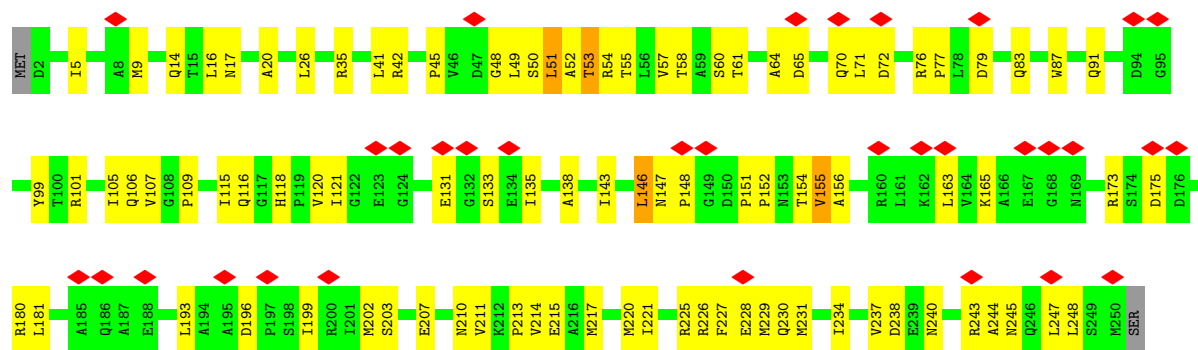




- Molecule 10: Flagellar basal-body rod protein FlgF



- Molecule 10: Flagellar basal-body rod protein FlgF



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	11858	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	105000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	2.384	Depositor
Minimum map value	-1.313	Depositor
Average map value	-0.003	Depositor
Map value standard deviation	0.124	Depositor
Recommended contour level	0.65	Depositor
Map size ($\text{\AA}$)	681.984, 681.984, 681.984	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.332, 1.332, 1.332	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	0	0.34	0/1888	0.61	3/2564 (0.1%)
1	1	0.29	0/1917	0.54	0/2605
1	2	0.25	0/1973	0.53	1/2682 (0.0%)
1	3	0.22	0/1973	0.50	0/2682
1	4	0.22	0/1973	0.47	0/2682
1	5	0.36	0/1973	0.59	0/2682
1	6	0.34	0/1973	0.65	0/2682
1	7	0.33	0/1973	0.59	2/2682 (0.1%)
1	8	0.35	0/1973	0.68	3/2682 (0.1%)
1	9	0.29	0/1973	0.54	0/2682
1	ZA	0.32	0/1973	0.57	0/2682
1	ZB	0.26	0/1973	0.49	0/2682
1	ZC	0.40	0/1973	0.67	0/2682
1	ZD	0.33	0/1973	0.61	0/2682
1	ZE	0.29	0/1973	0.54	0/2682
1	r	0.39	0/1926	0.64	0/2618
1	s	0.46	0/1934	0.77	3/2629 (0.1%)
1	t	0.48	0/1942	0.73	3/2639 (0.1%)
1	u	0.38	0/1926	0.67	3/2618 (0.1%)
1	v	0.41	0/1934	0.65	1/2629 (0.0%)
1	w	0.36	0/1844	0.63	0/2505
1	x	0.36	0/1888	0.59	0/2564
1	y	0.36	0/1888	0.66	2/2564 (0.1%)
1	z	0.30	0/1888	0.55	1/2564 (0.0%)
2	ZF	0.23	0/2991	0.46	1/4076 (0.0%)
2	ZG	0.35	1/2991 (0.0%)	0.59	4/4076 (0.1%)
2	ZH	0.26	0/2991	0.49	1/4076 (0.0%)
2	ZI	0.29	0/2991	0.51	1/4076 (0.0%)
2	ZJ	0.27	0/2991	0.48	0/4076
2	ZK	0.27	0/2991	0.51	0/4076
2	ZL	0.25	0/2991	0.47	0/4076
2	ZM	0.22	0/2991	0.48	1/4076 (0.0%)
2	ZN	0.21	0/2991	0.46	1/4076 (0.0%)
2	ZO	0.27	0/2991	0.50	1/4076 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	ZP	0.20	0/2991	0.43	1/4076 (0.0%)
2	ZQ	0.23	0/2991	0.48	0/4076
2	ZR	0.22	1/2991 (0.0%)	0.47	2/4076 (0.0%)
2	ZS	0.22	0/2991	0.44	0/4076
2	ZT	0.24	0/2991	0.46	1/4076 (0.0%)
2	ZU	0.23	0/2991	0.45	0/4076
2	ZV	0.48	4/2991 (0.1%)	0.65	7/4076 (0.2%)
2	ZW	0.19	0/2991	0.43	0/4076
2	ZX	0.19	0/2991	0.41	0/4076
2	ZY	0.24	1/2991 (0.0%)	0.47	2/4076 (0.0%)
2	ZZ	0.15	0/2991	0.37	0/4076
2	Za	0.21	0/2991	0.43	1/4076 (0.0%)
2	Zb	0.28	0/2991	0.49	1/4076 (0.0%)
2	Zc	0.23	0/2991	0.49	3/4076 (0.1%)
2	Zd	0.27	0/2991	0.51	1/4076 (0.0%)
2	Ze	0.25	0/2991	0.48	0/4076
2	Zf	0.21	0/2991	0.45	0/4076
2	Zg	0.23	0/2991	0.46	0/4076
2	Zh	0.21	0/2991	0.42	1/4076 (0.0%)
3	A	0.62	0/681	1.02	4/930 (0.4%)
3	B	0.33	0/681	0.60	0/930
3	C	0.24	0/681	0.54	1/930 (0.1%)
3	D	0.19	0/681	0.45	0/930
4	E	0.29	0/1994	0.52	0/2724
5	F	0.32	0/1643	0.64	5/2237 (0.2%)
5	G	0.27	0/1665	0.46	2/2267 (0.1%)
5	H	0.24	0/1652	0.48	3/2249 (0.1%)
5	I	0.24	0/1652	0.45	1/2249 (0.0%)
5	J	0.36	0/1662	0.62	4/2263 (0.2%)
6	K	0.24	0/300	0.63	2/400 (0.5%)
6	L	0.12	0/547	0.25	0/733
6	M	0.18	0/561	0.30	0/753
6	N	0.14	0/561	0.27	0/753
6	O	0.15	0/561	0.31	0/753
6	P	0.28	0/554	0.41	0/743
7	Q	0.24	0/930	0.56	2/1251 (0.2%)
7	R	0.18	0/855	0.40	0/1150
7	S	0.21	0/855	0.41	0/1150
7	T	0.20	0/870	0.36	0/1169
7	U	0.19	0/839	0.35	0/1129
8	V	0.22	0/981	0.42	0/1334
8	W	0.24	0/976	0.47	0/1327
8	X	0.35	0/981	0.55	0/1334

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
8	Y	0.32	0/981	0.65	1/1334 (0.1%)
8	Z	0.24	0/968	0.43	0/1316
8	a	0.40	0/981	0.55	1/1334 (0.1%)
9	b	0.59	0/83	1.23	2/114 (1.8%)
9	c	0.17	0/107	0.37	0/148
9	d	0.27	0/137	0.51	0/191
9	e	0.22	0/107	0.45	0/148
9	f	0.48	0/145	0.69	0/203
9	g	0.23	0/107	0.57	0/148
9	h	0.14	0/145	0.29	0/203
9	i	0.15	0/107	0.42	0/148
9	j	0.35	0/137	0.93	0/191
9	k	0.17	0/107	0.30	0/148
9	l	0.27	0/145	0.44	0/203
10	m	0.33	0/1828	0.57	2/2492 (0.1%)
10	n	0.36	0/1836	0.62	1/2502 (0.0%)
10	o	0.42	0/1844	0.62	0/2512
10	p	0.36	0/1844	0.63	0/2512
10	q	0.35	0/1836	0.57	0/2502
All	All	0.29	7/170171 (0.0%)	0.53	83/231606 (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
1	0	0	2
1	1	0	1
1	5	0	2
1	7	0	1
1	8	0	2
1	ZA	0	2
1	ZD	0	1
1	ZE	0	3
1	r	0	1
1	u	0	1
1	w	0	1
1	x	0	1
1	y	0	2
1	z	0	3
2	ZI	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	ZK	0	1
2	ZO	0	1
2	ZT	0	1
2	ZU	0	1
2	ZW	0	1
2	ZZ	0	1
2	Zd	0	1
2	Ze	0	1
5	H	0	2
5	J	0	2
7	Q	0	1
7	R	0	1
7	T	0	1
7	U	0	1
8	Y	0	1
8	a	0	1
10	m	0	1
10	n	0	2
10	p	0	1
All	All	0	46

All (7) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	ZV	140	PRO	CG-CD	-15.67	0.97	1.50
2	ZV	125	PRO	CG-CD	-12.77	1.17	1.51
2	ZV	140	PRO	N-CD	8.37	1.59	1.47
2	ZY	125	PRO	CG-CD	-7.04	1.32	1.51
2	ZR	125	PRO	CG-CD	-6.62	1.33	1.51
2	ZV	125	PRO	N-CD	6.59	1.57	1.47
2	ZG	4	SER	CA-CB	-5.70	1.46	1.54

All (83) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	ZV	140	PRO	N-CD-CG	-17.34	77.19	103.20
2	ZV	125	PRO	N-CD-CG	-14.57	86.32	103.80
2	ZR	125	PRO	CA-N-CD	-13.94	91.98	111.50
2	ZY	125	PRO	CA-N-CD	-13.33	92.84	111.50
2	ZV	125	PRO	CA-N-CD	-13.25	92.95	111.50
5	F	162	PRO	CA-N-CD	-12.29	94.80	112.00
2	Zc	125	PRO	CA-N-CD	-11.28	95.70	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	ZV	140	PRO	CA-N-CD	-10.59	97.18	112.00
2	ZR	125	PRO	N-CD-CG	-9.96	91.85	103.80
2	ZY	125	PRO	N-CD-CG	-9.81	92.02	103.80
2	ZV	140	PRO	CA-CB-CG	-9.57	86.32	104.50
9	b	320	PRO	N-CA-C	-9.21	101.22	113.65
1	t	2	ILE	N-CA-C	-8.96	103.65	112.17
2	ZM	223	PRO	CA-N-CD	-8.74	99.76	112.00
10	n	53	THR	CB-CA-C	-8.30	96.43	109.80
2	Zc	125	PRO	N-CD-CG	-7.81	94.43	103.80
3	A	66	GLY	O-C-N	-7.68	118.31	121.07
3	C	15	LYS	N-CA-C	-7.35	102.87	111.03
2	ZG	235	ASN	N-CA-C	-7.31	104.88	114.31
3	A	84	LEU	O-C-N	-7.13	113.12	121.32
8	Y	5	ASN	CB-CA-C	-7.04	108.44	116.54
5	F	135	ARG	N-CA-C	-6.78	103.51	111.03
5	F	162	PRO	N-CD-CG	-6.60	93.31	103.20
5	F	134	LEU	CA-C-N	-6.40	111.93	120.63
5	F	134	LEU	C-N-CA	-6.40	111.93	120.63
1	y	140	ILE	CA-C-N	-6.39	113.91	122.72
1	y	140	ILE	C-N-CA	-6.39	113.91	122.72
8	a	37	PRO	N-CA-C	-6.29	104.47	113.47
3	A	85	PRO	CA-N-CD	-6.24	103.26	112.00
2	Zb	397	ASN	N-CA-C	-6.21	104.43	111.14
5	G	162	PRO	N-CA-CB	-6.13	96.82	103.25
3	A	87	ILE	N-CA-C	-6.11	107.33	113.20
1	0	52	PRO	N-CA-CB	-6.07	96.32	103.00
5	J	84	PRO	N-CA-C	-6.07	103.30	110.70
7	Q	52	VAL	CA-C-N	-5.96	110.76	120.71
7	Q	52	VAL	C-N-CA	-5.96	110.76	120.71
1	s	140	ILE	CA-C-N	-5.92	114.56	122.72
1	s	140	ILE	C-N-CA	-5.92	114.56	122.72
1	s	196	GLN	N-CA-C	-5.88	104.87	111.28
1	7	19	MET	CA-C-N	-5.81	112.42	120.38
1	7	19	MET	C-N-CA	-5.81	112.42	120.38
2	ZI	322	ASN	CB-CA-C	-5.76	103.01	111.77
1	8	19	MET	CA-C-N	-5.76	112.56	120.28
1	8	19	MET	C-N-CA	-5.76	112.56	120.28
1	t	5	LEU	N-CA-C	-5.74	106.11	113.23
1	t	4	SER	N-CA-C	-5.68	107.34	114.56
2	ZV	125	PRO	CA-CB-CG	-5.67	93.22	104.00
2	Zc	125	PRO	CB-CG-CD	-5.61	92.50	105.40
2	ZF	134	PRO	N-CA-CB	-5.60	98.32	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	ZH	397	ASN	N-CA-C	-5.60	105.08	111.07
2	ZG	4	SER	N-CA-C	-5.59	107.09	114.31
5	G	120	LYS	N-CA-C	-5.58	104.29	113.50
2	ZP	125	PRO	CA-N-CD	-5.56	103.72	111.50
9	b	322	PRO	N-CA-CB	-5.55	96.89	103.00
2	ZV	140	PRO	N-CA-CB	-5.53	98.39	103.31
2	ZT	3	PHE	N-CA-C	-5.46	106.59	113.20
2	ZG	47	LYS	N-CA-C	-5.40	106.61	114.12
1	u	63	PRO	O-C-N	-5.39	115.36	122.64
1	v	65	GLY	CA-C-O	-5.39	117.92	122.29
2	ZO	141	ASN	N-CA-C	-5.37	106.72	113.28
5	J	66	ARG	N-CA-C	-5.36	106.59	113.02
1	8	153	ARG	N-CA-C	-5.31	106.83	113.15
10	m	47	ASP	CB-CA-C	-5.29	104.01	112.05
1	u	257	LEU	CA-C-N	-5.28	112.28	120.31
1	u	257	LEU	C-N-CA	-5.28	112.28	120.31
5	H	134	LEU	CA-C-N	-5.26	113.28	120.44
5	H	134	LEU	C-N-CA	-5.26	113.28	120.44
1	0	4	SER	CA-C-N	-5.25	113.24	120.28
1	0	4	SER	C-N-CA	-5.25	113.24	120.28
5	J	143	ARG	CB-CG-CD	-5.22	99.30	111.30
5	H	135	ARG	N-CA-C	-5.21	105.51	111.14
1	z	116	ARG	N-CA-C	-5.19	107.61	114.31
2	ZN	218	PRO	CA-N-CD	-5.16	104.78	112.00
2	Zh	3	PHE	N-CA-C	-5.12	105.14	111.33
2	ZG	3	PHE	N-CA-C	-5.10	106.47	113.30
5	J	67	ILE	N-CA-C	-5.10	105.90	113.39
2	Za	126	PRO	CA-N-CD	-5.10	104.86	112.00
1	2	237	GLN	N-CA-C	-5.09	105.17	111.33
10	m	48	GLY	CA-C-O	-5.08	116.72	121.90
6	K	76	GLN	CA-C-N	-5.06	113.75	120.79
6	K	76	GLN	C-N-CA	-5.06	113.75	120.79
2	Zd	323	ASN	N-CA-C	-5.06	105.95	111.82
5	I	157	GLY	O-C-N	-5.05	116.72	121.77

There are no chirality outliers.

All (46) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	36	ARG	Sidechain
1	0	50	ARG	Sidechain
1	1	36	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	5	50	ARG	Sidechain
1	5	73	ARG	Sidechain
1	7	73	ARG	Sidechain
1	8	238	ARG	Sidechain
1	8	38	ARG	Sidechain
5	H	135	ARG	Sidechain
5	H	143	ARG	Sidechain
5	J	140	ARG	Sidechain
5	J	143	ARG	Sidechain
7	Q	106	ARG	Sidechain
7	R	55	ARG	Sidechain
7	T	4	ARG	Sidechain
7	U	104	ARG	Sidechain
8	Y	110	ARG	Sidechain
1	ZA	50	ARG	Sidechain
1	ZA	79	ARG	Sidechain
1	ZD	238	ARG	Sidechain
1	ZE	238	ARG	Sidechain
1	ZE	50	ARG	Sidechain
1	ZE	79	ARG	Sidechain
2	ZI	380	ARG	Sidechain
2	ZK	71	ARG	Sidechain
2	ZO	71	ARG	Sidechain
2	ZT	106	ARG	Sidechain
2	ZU	96	ARG	Sidechain
2	ZW	71	ARG	Sidechain
2	ZZ	380	ARG	Sidechain
2	Zd	380	ARG	Sidechain
2	Ze	380	ARG	Sidechain
8	a	110	ARG	Sidechain
10	m	243	ARG	Sidechain
10	n	225	ARG	Sidechain
10	n	54	ARG	Sidechain
10	p	200	ARG	Sidechain
1	r	36	ARG	Sidechain
1	u	116	ARG	Sidechain
1	w	79	ARG	Sidechain
1	x	73	ARG	Sidechain
1	y	36	ARG	Sidechain
1	y	50	ARG	Sidechain
1	z	116	ARG	Sidechain
1	z	153	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	z	238	ARG	Sidechain

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	1866	0	1848	134	0
1	1	1894	0	1878	129	0
1	2	1949	0	1926	104	0
1	3	1949	0	1926	91	0
1	4	1949	0	1926	114	0
1	5	1949	0	1926	118	0
1	6	1949	0	1926	105	0
1	7	1949	0	1926	88	0
1	8	1949	0	1926	106	0
1	9	1949	0	1926	92	0
1	ZA	1949	0	1926	147	0
1	ZB	1949	0	1926	117	0
1	ZC	1949	0	1926	100	0
1	ZD	1949	0	1926	124	0
1	ZE	1949	0	1926	102	0
1	r	1903	0	1878	134	0
1	s	1911	0	1889	177	0
1	t	1919	0	1901	144	0
1	u	1903	0	1878	160	0
1	v	1911	0	1889	177	0
1	w	1823	0	1797	127	0
1	x	1866	0	1848	148	0
1	y	1866	0	1848	154	0
1	z	1866	0	1848	105	0
2	ZF	2947	0	2839	103	0
2	ZG	2947	0	2839	104	0
2	ZH	2947	0	2839	132	0
2	ZI	2947	0	2839	122	0
2	ZJ	2947	0	2839	102	0
2	ZK	2947	0	2839	80	0
2	ZL	2947	0	2839	97	0
2	ZM	2947	0	2839	91	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	ZN	2947	0	2839	101	0
2	ZO	2947	0	2839	89	0
2	ZP	2947	0	2839	118	0
2	ZQ	2947	0	2839	136	0
2	ZR	2947	0	2839	100	0
2	ZS	2947	0	2839	117	0
2	ZT	2947	0	2839	109	0
2	ZU	2947	0	2839	148	0
2	ZV	2947	0	2839	118	0
2	ZW	2947	0	2839	111	0
2	ZX	2947	0	2839	93	0
2	ZY	2947	0	2839	109	0
2	ZZ	2947	0	2839	90	0
2	Za	2947	0	2839	104	0
2	Zb	2947	0	2839	97	0
2	Zc	2947	0	2839	97	0
2	Zd	2947	0	2839	84	0
2	Ze	2947	0	2839	55	0
2	Zf	2947	0	2839	111	0
2	Zg	2947	0	2839	67	0
2	Zh	2947	0	2839	68	0
3	A	670	0	739	51	0
3	B	670	0	739	37	0
3	C	670	0	739	49	0
3	D	670	0	739	87	0
4	E	1945	0	2063	100	0
5	F	1605	0	1701	69	0
5	G	1626	0	1718	82	0
5	H	1614	0	1709	69	0
5	I	1614	0	1709	68	0
5	J	1623	0	1715	113	0
6	K	300	0	311	32	0
6	L	543	0	550	18	0
6	M	557	0	566	30	0
6	N	557	0	566	20	0
6	O	557	0	566	31	0
6	P	550	0	559	32	0
7	Q	922	0	914	46	0
7	R	848	0	847	69	0
7	S	848	0	847	55	0
7	T	863	0	863	51	0
7	U	832	0	829	39	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	V	969	0	981	51	0
8	W	964	0	976	98	0
8	X	969	0	981	76	0
8	Y	969	0	981	81	0
8	Z	956	0	965	84	0
8	a	969	0	981	106	0
9	b	81	0	78	11	0
9	c	103	0	99	5	0
9	d	133	0	129	5	0
9	e	103	0	99	3	0
9	f	140	0	136	5	0
9	g	103	0	99	11	0
9	h	140	0	136	11	0
9	i	103	0	99	15	0
9	j	133	0	129	3	0
9	k	103	0	99	9	0
9	l	140	0	136	3	0
10	m	1804	0	1791	187	0
10	n	1812	0	1800	226	0
10	o	1820	0	1812	167	0
10	p	1820	0	1812	208	0
10	q	1812	0	1800	232	0
All	All	167758	0	164979	5760	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 17.

All (5760) 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)
1:w:258:THR:HG21	10:q:228:GLU:CB	1.27	1.63
1:y:73:ARG:CD	10:n:202:MET:HE1	1.40	1.49
1:u:38:ARG:NH1	10:p:74:THR:HG21	1.18	1.48
1:6:56:SER:HA	10:q:138:ALA:CB	1.40	1.48
1:v:257:LEU:CA	10:q:231:MET:HE3	1.40	1.48
1:s:73:ARG:HD3	8:W:78:TYR:CE2	1.48	1.47
1:x:3:SER:HA	10:m:70:GLN:CG	1.44	1.45
7:R:51:LYS:HB3	7:R:55:ARG:NH2	1.13	1.43
1:u:253:MET:CE	10:p:16:LEU:HD23	1.49	1.42
1:9:85:ASN:ND2	2:ZK:4:SER:HB2	1.40	1.35
1:ZD:85:ASN:OD1	2:ZO:50:LEU:HD13	1.24	1.35

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:193:ILE:CG2	10:q:152:PRO:HG3	1.53	1.34
1:s:73:ARG:HD3	8:W:78:TYR:CZ	1.60	1.34
1:x:3:SER:CA	10:m:70:GLN:HG3	1.56	1.34
1:v:179:MET:SD	10:q:131:GLU:HB3	1.66	1.34
1:1:258:THR:HA	10:q:217:MET:CE	1.56	1.34
1:1:193:ILE:CG2	10:q:152:PRO:CG	2.06	1.33
1:ZA:20:ASP:OD1	2:ZF:2:SER:HB2	1.16	1.32
1:0:2:ILE:HG22	10:p:211:VAL:O	1.18	1.32
1:x:9:LYS:NZ	10:m:72:ASP:HB3	1.42	1.32
1:1:193:ILE:HG21	10:q:152:PRO:CG	1.59	1.31
1:y:73:ARG:NH1	10:n:202:MET:HE3	1.41	1.31
1:t:44:LEU:HB3	8:X:90:TYR:OH	1.19	1.31
1:6:86:LEU:HD12	2:ZH:42:MET:CE	1.60	1.31
1:6:56:SER:CA	10:q:138:ALA:HB1	1.61	1.30
1:v:257:LEU:HA	10:q:231:MET:CE	1.59	1.30
1:9:85:ASN:HD22	2:ZK:4:SER:CB	1.43	1.29
1:2:56:SER:O	10:m:138:ALA:HB1	1.10	1.26
7:Q:111:ASP:OD1	8:W:3:LEU:HB2	1.19	1.26
1:ZE:248:SER:HB2	2:ZJ:402:LEU:CD2	1.66	1.25
1:y:1:MET:N	10:n:70:GLN:HE21	1.31	1.25
1:ZD:27:ALA:O	2:ZI:52:VAL:HG21	1.31	1.24
1:4:56:SER:O	10:o:138:ALA:HB1	1.38	1.24
1:w:258:THR:CG2	10:q:228:GLU:HB3	1.67	1.24
1:u:242:ILE:HG21	10:p:26:LEU:CD1	1.65	1.23
1:s:73:ARG:CD	8:W:78:TYR:CE2	2.21	1.23
1:y:6:TRP:CD1	10:n:70:GLN:HB3	1.73	1.22
1:ZB:233:MET:HE1	2:ZG:388:THR:OG1	1.40	1.21
1:4:55:GLN:O	10:o:138:ALA:HB2	1.37	1.21
1:x:52:PRO:CG	8:W:80:PRO:HB3	1.71	1.21
3:D:55:ILE:HD11	5:I:205:MET:CE	1.70	1.21
1:2:56:SER:C	10:m:138:ALA:HB1	1.64	1.21
1:ZC:28:ASN:OD1	2:ZH:52:VAL:HG23	1.37	1.21
1:ZA:240:TYR:CE2	2:ZF:395:ILE:HG23	1.76	1.20
1:y:73:ARG:CD	10:n:202:MET:CE	2.18	1.19
1:r:242:ILE:CG2	10:m:26:LEU:HD13	1.72	1.19
1:u:253:MET:HE1	10:p:16:LEU:HD23	1.22	1.18
1:z:6:TRP:CE3	10:o:70:GLN:HB2	1.77	1.18
1:y:44:LEU:HD13	10:n:71:LEU:CD2	1.73	1.18
1:t:44:LEU:CD2	8:X:78:TYR:HB2	1.74	1.17
1:3:55:GLN:O	10:n:138:ALA:HB2	1.43	1.17
1:u:253:MET:CE	10:p:16:LEU:CD2	2.21	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W:120:ASN:ND2	10:m:247:LEU:HB3	1.59	1.17
1:w:258:THR:CG2	10:q:228:GLU:CB	2.21	1.16
3:D:55:ILE:CD1	5:I:205:MET:HE1	1.74	1.16
7:R:51:LYS:CB	7:R:55:ARG:NH2	2.09	1.16
1:0:193:ILE:HD12	10:p:152:PRO:CD	1.76	1.15
1:5:226:VAL:HG11	1:ZA:242:ILE:HD13	1.27	1.15
1:u:242:ILE:CG2	10:p:26:LEU:HD12	1.74	1.15
1:y:44:LEU:CD1	10:n:71:LEU:HD23	1.76	1.15
1:v:3:SER:HB2	8:Z:75:LYS:NZ	1.61	1.15
1:s:189:GLU:HB3	10:m:200:ARG:NH2	1.62	1.15
1:ZD:76:ALA:CB	2:ZI:47:LYS:HE3	1.76	1.14
1:w:258:THR:HG21	10:q:228:GLU:HB2	1.16	1.14
1:v:257:LEU:CD1	10:q:231:MET:HE1	1.77	1.14
1:s:2:ILE:HD11	10:n:16:LEU:HD22	1.29	1.14
1:u:242:ILE:CG2	10:p:26:LEU:CD1	2.26	1.13
1:0:1:MET:HG3	10:p:213:PRO:HG3	1.16	1.13
1:z:70:THR:HG21	10:o:71:LEU:HD13	1.17	1.13
3:C:36:SER:OG	3:D:44:ILE:HG23	1.45	1.13
7:R:51:LYS:HB3	7:R:55:ARG:CZ	1.79	1.13
8:W:120:ASN:HD21	10:m:247:LEU:HB3	1.01	1.13
1:8:54:ALA:HB1	1:s:150:THR:HG21	1.25	1.13
1:v:253:MET:CE	10:q:16:LEU:HD23	1.78	1.13
1:s:189:GLU:CB	10:m:200:ARG:HH22	1.61	1.13
1:ZC:122:VAL:O	2:ZH:322:ASN:HB2	1.47	1.12
1:y:73:ARG:HD2	10:n:202:MET:HE1	1.12	1.12
3:D:58:VAL:HG11	5:J:207:LEU:CD1	1.79	1.12
2:Za:269:GLN:OE1	2:Zg:286:PRO:HG3	1.49	1.12
2:ZU:182:GLY:HA2	2:Zf:131:GLY:HA3	1.30	1.12
2:ZY:24:ILE:HD11	2:Zd:384:SER:OG	1.50	1.12
1:r:242:ILE:HG22	10:m:26:LEU:HD13	1.29	1.12
1:s:73:ARG:CD	8:W:78:TYR:CZ	2.33	1.11
1:0:193:ILE:HD12	10:p:152:PRO:HD3	1.25	1.11
1:t:68:ILE:HG22	10:o:21:VAL:CG2	1.80	1.11
1:s:242:ILE:HG21	10:n:26:LEU:HD22	1.28	1.11
1:6:57:SER:HB3	1:w:108:PRO:CB	1.79	1.11
7:S:35:THR:HG22	8:X:49:PHE:HB3	1.32	1.11
1:1:257:LEU:O	10:q:217:MET:HE3	1.49	1.10
1:v:257:LEU:HB2	10:q:231:MET:CE	1.81	1.10
1:x:45:LEU:HD11	10:m:202:MET:HG3	1.15	1.10
1:u:38:ARG:NH1	10:p:74:THR:CG2	2.13	1.10
1:2:56:SER:O	10:m:138:ALA:CB	1.99	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:63:PRO:HG2	10:o:62:PRO:HA	1.21	1.09
1:v:257:LEU:CB	10:q:231:MET:CE	2.29	1.09
1:y:73:ARG:HD3	10:n:202:MET:HE1	1.33	1.09
2:ZV:181:LYS:HD3	2:Zg:129:GLN:HE21	1.18	1.08
1:5:257:LEU:HG	1:u:230:LEU:HD12	1.32	1.08
1:s:258:THR:HG22	10:m:229:MET:HG2	1.33	1.08
1:0:70:THR:HG21	10:p:71:LEU:HD13	1.12	1.08
1:ZD:76:ALA:HB1	2:ZI:47:LYS:HE3	1.26	1.08
6:O:77:LYS:HE3	7:U:13:GLN:NE2	1.69	1.08
1:4:86:LEU:HD12	2:ZF:42:MET:CE	1.84	1.07
2:ZU:331:ASP:HA	2:ZZ:40:ALA:HB1	1.37	1.07
1:z:258:THR:HA	10:o:217:MET:HE3	1.35	1.07
1:6:86:LEU:CD1	2:ZH:42:MET:HE3	1.84	1.07
2:Za:104:GLU:OE2	2:Zf:341:GLY:HA2	1.53	1.06
1:8:36:ARG:NE	1:8:38:ARG:HH22	1.53	1.06
1:6:57:SER:HB3	1:w:108:PRO:HB3	1.10	1.06
1:v:3:SER:HB2	8:Z:75:LYS:HZ2	1.02	1.06
3:D:58:VAL:HG11	5:J:207:LEU:HD11	1.07	1.06
1:s:189:GLU:HB3	10:m:200:ARG:HH22	1.17	1.06
1:2:58:GLU:HG2	10:m:160:ARG:NH1	1.70	1.05
1:ZE:248:SER:HB2	2:ZJ:402:LEU:HD22	1.37	1.05
1:s:52:PRO:HG3	10:n:172:GLN:HE22	1.19	1.05
1:ZA:111:THR:HG21	1:z:163:GLY:HA2	1.35	1.05
1:1:193:ILE:HG21	10:q:152:PRO:HG3	1.08	1.05
1:v:258:THR:HG22	10:p:229:MET:HG3	1.31	1.05
1:1:193:ILE:HG22	10:q:152:PRO:CG	1.81	1.05
1:v:197:SER:HA	10:q:109:PRO:HG3	1.34	1.05
3:D:74:LEU:HD11	5:J:228:LEU:HD13	1.38	1.05
2:ZH:205:ASP:OD1	2:ZN:252:ASN:HA	1.56	1.05
2:ZU:66:THR:HB	2:Zf:42:MET:HE3	1.39	1.05
2:Za:331:ASP:HA	2:Zf:40:ALA:HB1	1.06	1.04
1:u:242:ILE:HG21	10:p:26:LEU:HD11	1.34	1.04
1:t:251:ASP:OD2	10:n:221:ILE:HD13	1.58	1.04
1:4:56:SER:C	10:o:138:ALA:HB1	1.81	1.03
1:ZE:54:ALA:HB1	1:y:150:THR:HG21	1.39	1.03
1:x:52:PRO:HG3	8:W:80:PRO:HB3	1.06	1.03
1:z:258:THR:HA	10:o:217:MET:CE	1.88	1.03
1:6:86:LEU:HB2	2:ZH:42:MET:HE1	1.39	1.03
1:1:70:THR:HG21	10:q:71:LEU:HG	1.41	1.03
2:ZW:349:GLY:O	2:Zc:89:ASN:ND2	1.92	1.03
1:6:55:GLN:O	10:q:138:ALA:HB2	1.59	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZH:234:GLU:OE2	2:ZN:255:THR:HB	1.57	1.02
2:ZU:349:GLY:O	2:Za:89:ASN:ND2	1.91	1.02
1:r:44:LEU:HD21	8:V:78:TYR:CG	1.93	1.02
1:r:197:SER:C	10:m:109:PRO:HG3	1.84	1.02
1:ZB:31:THR:HG22	2:ZG:39:PHE:HB2	1.40	1.02
2:ZW:331:ASP:HA	2:Zb:40:ALA:HB1	1.37	1.02
1:0:70:THR:HG21	10:p:71:LEU:CD1	1.90	1.02
1:ZB:56:SER:O	1:v:153:ARG:N	1.92	1.02
1:x:257:LEU:O	10:m:217:MET:CE	2.06	1.02
1:ZC:28:ASN:OD1	2:ZH:52:VAL:CG2	2.08	1.01
7:Q:111:ASP:OD1	8:W:3:LEU:CB	2.09	1.01
6:N:76:GLN:NE2	8:Y:132:LEU:O	1.93	1.01
1:u:38:ARG:NH2	10:p:104:ASN:ND2	2.09	1.01
2:Za:379:GLN:NE2	2:Zf:394:GLN:OE1	1.94	1.00
1:v:257:LEU:HB2	10:q:231:MET:HE2	1.43	1.00
1:y:73:ARG:CZ	10:n:202:MET:CE	2.39	1.00
1:ZD:27:ALA:O	2:ZI:52:VAL:CG2	2.09	1.00
1:w:258:THR:HG21	10:q:228:GLU:HB3	1.00	1.00
1:0:73:ARG:HD3	10:p:202:MET:SD	2.01	1.00
1:2:58:GLU:HG2	10:m:160:ARG:HH11	1.25	1.00
1:6:218:TYR:OH	2:ZH:53:LYS:HG3	1.62	1.00
2:ZQ:65:THR:HG21	2:Zb:4:SER:OG	1.61	1.00
1:1:9:LYS:HE2	10:q:72:ASP:OD1	1.59	1.00
1:v:62:LEU:CD2	8:a:83:PRO:HD2	1.91	1.00
1:z:6:TRP:HE3	10:o:70:GLN:HB2	1.17	1.00
1:w:6:TRP:CE2	8:a:77:VAL:HG11	1.97	1.00
8:Y:68:ILE:HD11	9:i:312:VAL:CG2	1.92	0.99
1:5:241:GLU:OE2	1:ZA:256:LYS:NZ	1.94	0.99
1:v:253:MET:HE1	10:q:16:LEU:HD23	1.44	0.99
1:w:73:ARG:HD3	8:a:78:TYR:CE2	1.96	0.99
7:R:51:LYS:HE3	7:R:55:ARG:HH12	1.25	0.99
1:u:6:TRP:CE2	8:Y:77:VAL:HB	1.98	0.99
1:2:58:GLU:HG3	10:m:140:ASP:OD2	1.62	0.99
1:ZB:122:VAL:O	2:ZG:322:ASN:CG	2.04	0.99
1:1:193:ILE:HG21	10:q:152:PRO:CD	1.92	0.98
1:x:52:PRO:HG3	8:W:80:PRO:CB	1.91	0.98
1:s:189:GLU:CB	10:m:200:ARG:NH2	2.23	0.98
1:t:63:PRO:HG2	10:o:62:PRO:CA	1.92	0.98
7:R:51:LYS:HE2	7:R:55:ARG:HH22	1.25	0.98
2:ZT:17:LEU:HD13	2:ZY:395:ILE:HD11	1.46	0.98
1:ZE:56:SER:O	1:y:153:ARG:N	1.97	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:57:SER:OG	1:w:108:PRO:HG3	1.62	0.98
2:ZV:181:LYS:HD3	2:Zg:129:GLN:NE2	1.78	0.98
1:y:44:LEU:HD13	10:n:71:LEU:HD23	1.01	0.98
2:ZS:181:LYS:HZ3	2:Zd:129:GLN:HE21	1.07	0.97
1:r:256:LYS:HG2	10:m:228:GLU:OE1	1.64	0.97
1:z:6:TRP:HE3	10:o:70:GLN:CB	1.76	0.97
1:ZE:28:ASN:OD1	2:ZJ:52:VAL:HB	1.62	0.97
1:t:44:LEU:CB	8:X:90:TYR:OH	2.13	0.97
1:r:44:LEU:HD22	8:V:78:TYR:HB2	1.45	0.97
1:6:231:VAL:HG11	1:ZC:9:LYS:HG2	1.46	0.97
1:0:1:MET:CG	10:p:213:PRO:HG3	1.94	0.97
1:u:257:LEU:HD13	8:Y:99:VAL:HG22	1.47	0.97
1:ZD:56:SER:O	1:x:153:ARG:N	1.97	0.97
2:ZV:387:GLN:CD	2:Zb:400:VAL:HG13	1.89	0.97
6:O:77:LYS:HE3	7:U:13:GLN:HE22	1.23	0.97
1:ZD:76:ALA:CA	2:ZI:47:LYS:HE3	1.94	0.97
2:ZN:349:GLY:O	2:ZT:89:ASN:ND2	1.98	0.97
1:u:242:ILE:HG21	10:p:26:LEU:HD12	1.36	0.97
1:ZC:240:TYR:CD2	2:ZH:395:ILE:CG2	2.48	0.97
1:ZD:54:ALA:HB1	1:x:150:THR:HG21	1.43	0.97
1:1:6:TRP:HB2	10:q:70:GLN:CB	1.94	0.96
1:t:44:LEU:HD22	8:X:78:TYR:HB2	1.44	0.96
1:8:36:ARG:HE	1:8:38:ARG:HH22	1.07	0.96
1:ZD:85:ASN:OD1	2:ZO:50:LEU:CD1	2.12	0.96
1:r:246:ALA:HA	10:m:220:MET:HE2	1.47	0.96
1:u:256:LYS:HD3	10:p:228:GLU:HG2	1.45	0.96
1:3:55:GLN:O	10:n:138:ALA:CB	2.12	0.96
1:5:257:LEU:HG	1:u:230:LEU:CD1	1.95	0.96
1:u:38:ARG:HH12	10:p:74:THR:HG21	1.21	0.96
1:8:54:ALA:CB	1:s:150:THR:HG21	1.94	0.96
1:y:73:ARG:CZ	10:n:202:MET:HE3	1.95	0.96
1:r:46:TYR:OH	10:m:173:ARG:NH1	1.98	0.96
1:s:251:ASP:OD1	10:m:225:ARG:NH2	1.98	0.96
1:x:9:LYS:HZ3	10:m:72:ASP:HB3	0.98	0.96
1:v:257:LEU:HD12	10:q:231:MET:HE1	1.45	0.95
2:Za:349:GLY:O	2:Zg:89:ASN:ND2	1.99	0.95
1:w:73:ARG:CD	8:a:78:TYR:CE2	2.49	0.95
3:D:52:ILE:CD1	5:I:206:ALA:HB1	1.96	0.95
1:y:73:ARG:NH1	10:n:202:MET:CE	2.28	0.95
2:ZV:380:ARG:NE	2:Zb:393:ASP:OD2	1.97	0.95
1:0:44:LEU:HD22	10:p:71:LEU:HD22	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:253:MET:HE1	10:n:223:ASN:HB3	1.48	0.95
1:x:73:ARG:HH21	10:m:202:MET:HE1	1.30	0.95
1:8:36:ARG:HE	1:8:38:ARG:NH2	1.65	0.95
1:ZB:238:ARG:NH1	2:ZH:393:ASP:OD1	1.98	0.95
1:v:257:LEU:CA	10:q:231:MET:CE	2.24	0.95
1:z:6:TRP:CE3	10:o:70:GLN:CB	2.50	0.95
8:Z:45:LYS:NZ	10:p:55:THR:OG1	1.99	0.95
2:ZT:379:GLN:NE2	2:ZY:394:GLN:OE1	2.00	0.95
1:1:193:ILE:HG22	10:q:152:PRO:HG2	1.47	0.95
1:ZD:185:GLU:OE2	2:ZI:46:SER:HB2	1.67	0.95
1:4:76:ALA:HB1	1:9:64:SER:O	1.65	0.95
3:D:55:ILE:HD11	5:I:205:MET:HE1	0.95	0.95
8:W:103:VAL:HG21	10:n:9:MET:HB2	1.49	0.95
1:r:44:LEU:CD2	8:V:78:TYR:HB2	1.96	0.95
1:2:179:MET:HE3	1:x:144:ALA:HA	1.46	0.94
3:A:81:PHE:O	3:A:85:PRO:HD2	1.67	0.94
2:ZS:65:THR:HG21	2:Zd:4:SER:OG	1.66	0.94
1:2:55:GLN:O	10:m:138:ALA:HB2	1.67	0.94
1:7:235:GLN:HE22	1:ZD:9:LYS:HD2	1.29	0.94
1:ZE:31:THR:HG22	2:ZJ:39:PHE:CB	1.97	0.94
2:ZI:373:VAL:HG21	2:ZO:10:LEU:CD2	1.97	0.94
1:7:235:GLN:NE2	1:ZD:9:LYS:HD2	1.82	0.94
1:ZC:54:ALA:HB1	1:w:150:THR:HG21	1.47	0.94
2:ZU:65:THR:HG21	2:Zf:4:SER:HB3	1.50	0.94
1:y:2:ILE:HD11	10:n:213:PRO:HD2	1.49	0.94
1:ZD:207:GLY:O	2:ZJ:89:ASN:ND2	2.01	0.94
1:y:1:MET:N	10:n:70:GLN:NE2	2.16	0.94
1:w:9:LYS:HE3	10:q:215:GLU:HG2	1.46	0.93
3:A:52:ILE:HD11	5:F:206:ALA:CB	1.98	0.93
5:F:38:TRP:HB2	6:L:46:SER:OG	1.67	0.93
1:1:258:THR:HA	10:q:217:MET:HE2	1.49	0.93
2:ZX:331:ASP:HA	2:Zc:40:ALA:HB1	1.50	0.93
1:ZB:28:ASN:ND2	2:ZG:52:VAL:HG23	1.84	0.93
1:t:68:ILE:HG22	10:o:21:VAL:HG23	1.47	0.93
1:y:73:ARG:NE	10:n:202:MET:CE	2.31	0.93
1:8:111:THR:HG21	1:x:163:GLY:HA2	1.51	0.93
2:ZW:183:THR:HG22	2:Zh:131:GLY:O	1.68	0.93
2:Za:331:ASP:CA	2:Zf:40:ALA:HB1	1.98	0.93
1:ZA:20:ASP:OD1	2:ZF:2:SER:CB	2.13	0.92
2:ZW:42:MET:HE3	2:ZW:53:LYS:HB3	1.50	0.92
1:y:73:ARG:HH11	10:n:202:MET:HE3	1.17	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:73:ARG:HD3	8:a:78:TYR:CZ	2.05	0.92
1:z:70:THR:CG2	10:o:71:LEU:HD13	1.99	0.92
1:6:28:ASN:ND2	1:ZB:43:ASP:OD1	2.03	0.92
1:v:253:MET:O	10:q:227:PHE:CE2	2.22	0.92
1:u:242:ILE:HG22	10:p:26:LEU:HD12	1.51	0.92
1:ZD:76:ALA:HB1	2:ZI:47:LYS:CE	2.00	0.92
2:ZY:269:GLN:OE1	2:Ze:286:PRO:HB3	1.69	0.92
1:v:260:LEU:HD23	10:q:231:MET:SD	2.10	0.92
1:x:45:LEU:CD1	10:m:202:MET:HG3	1.98	0.92
1:5:257:LEU:CG	1:u:230:LEU:HD12	1.99	0.92
1:s:253:MET:HE2	10:n:223:ASN:C	1.94	0.92
1:0:44:LEU:HD22	10:p:71:LEU:CD2	1.98	0.92
1:1:258:THR:CA	10:q:217:MET:CE	2.48	0.92
2:ZQ:380:ARG:NH2	2:ZW:393:ASP:OD1	2.02	0.92
1:r:80:LEU:HD11	10:m:76:ARG:HD3	1.51	0.91
1:s:242:ILE:CG2	10:n:26:LEU:HD22	1.99	0.91
4:E:158:PRO:HG2	4:E:162:ASN:HD21	1.34	0.91
1:ZC:234:ILE:HG21	2:ZI:393:ASP:OD2	1.69	0.91
1:u:253:MET:HE2	10:p:16:LEU:CD2	2.00	0.91
1:y:6:TRP:CD1	10:n:70:GLN:CB	2.53	0.91
1:z:70:THR:HG21	10:o:71:LEU:CD1	2.00	0.91
1:0:2:ILE:CG2	10:p:211:VAL:O	2.14	0.91
3:C:14:MET:HE3	3:D:63:ILE:CD1	2.00	0.91
1:0:2:ILE:HG22	10:p:211:VAL:C	1.95	0.91
1:x:73:ARG:HH21	10:m:202:MET:CE	1.84	0.91
2:ZY:373:VAL:HG11	2:Ze:7:VAL:HG22	1.52	0.91
2:Za:331:ASP:HA	2:Zf:40:ALA:CB	2.00	0.91
1:x:257:LEU:O	10:m:217:MET:HE2	1.70	0.91
1:ZA:145:ASN:HA	2:ZF:352:ASN:HD22	1.36	0.91
1:ZC:31:THR:HG22	2:ZH:39:PHE:HB2	1.53	0.91
2:Za:18:ASP:OD2	2:Zf:2:SER:N	2.03	0.91
1:u:50:ARG:CG	9:i:322:PRO:HG3	2.01	0.91
2:ZU:183:THR:HB	2:Zf:132:ALA:HA	1.53	0.91
1:s:257:LEU:HD11	8:W:102:MET:SD	2.10	0.91
1:5:226:VAL:CG1	1:ZA:242:ILE:HD13	2.01	0.90
1:ZB:248:SER:HB3	2:ZG:402:LEU:HD22	1.51	0.90
1:ZA:145:ASN:OD1	2:ZF:352:ASN:ND2	2.04	0.90
1:1:6:TRP:HB2	10:q:70:GLN:HB2	1.54	0.90
1:w:73:ARG:CD	8:a:78:TYR:CZ	2.54	0.90
1:ZB:31:THR:HG22	2:ZG:39:PHE:CB	2.02	0.90
1:s:253:MET:HE2	10:n:223:ASN:O	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:72:VAL:CG2	10:n:28:ASN:OD1	2.19	0.90
1:1:73:ARG:NH1	10:q:202:MET:HE2	1.86	0.90
1:r:242:ILE:HG21	10:m:26:LEU:HD22	1.52	0.90
8:Z:110:ARG:NH1	10:q:238:ASP:OD1	2.05	0.90
1:0:44:LEU:HD21	10:p:205:VAL:HG11	1.52	0.90
1:5:241:GLU:HG2	1:ZA:256:LYS:HE3	1.53	0.89
1:ZD:20:ASP:OD1	2:ZI:2:SER:HB2	1.71	0.89
2:ZY:380:ARG:HB3	2:Ze:396:LEU:HD23	1.54	0.89
1:y:1:MET:H1	10:n:70:GLN:HE21	1.18	0.89
1:s:253:MET:CE	10:n:223:ASN:C	2.46	0.89
1:y:9:LYS:HZ3	10:n:72:ASP:HB2	1.35	0.89
1:7:85:ASN:ND2	2:ZI:4:SER:OG	2.05	0.89
1:y:70:THR:HG21	10:n:71:LEU:HD22	1.52	0.89
2:Za:331:ASP:N	2:Zf:41:ASP:O	2.05	0.89
3:D:7:MET:HE2	4:E:233:MET:C	1.97	0.89
8:Z:113:GLN:HB2	10:p:243:ARG:NE	1.88	0.89
1:r:44:LEU:CD2	8:V:78:TYR:CG	2.56	0.89
8:W:120:ASN:HD21	10:m:247:LEU:CB	1.85	0.89
8:X:6:ILE:HG21	8:X:122:VAL:HG21	1.54	0.89
1:5:58:GLU:OE2	10:p:160:ARG:NH2	2.06	0.89
2:ZR:375:MET:HE1	2:ZW:388:THR:HG23	1.53	0.89
1:v:2:ILE:CD1	8:Z:32:ASP:OD1	2.21	0.89
1:y:52:PRO:C	8:X:87:ALA:O	2.16	0.89
1:ZA:240:TYR:CD2	2:ZF:395:ILE:HG23	2.09	0.88
1:ZA:57:SER:HA	1:u:154:ASP:HB3	1.55	0.88
1:ZD:248:SER:HB2	2:ZI:402:LEU:HD22	1.54	0.88
1:ZE:31:THR:HG22	2:ZJ:39:PHE:HB2	1.52	0.88
2:ZI:382:TYR:CE1	2:ZN:395:ILE:HG23	2.06	0.88
1:v:242:ILE:HG23	10:q:26:LEU:HD22	1.55	0.88
2:ZK:379:GLN:HG3	2:ZP:391:THR:HG23	1.52	0.88
1:r:242:ILE:CG2	10:m:26:LEU:CD1	2.52	0.88
1:5:55:GLN:O	10:p:138:ALA:HB2	1.72	0.88
3:C:40:ALA:HB2	3:D:44:ILE:HD13	1.55	0.88
2:ZQ:181:LYS:HZ3	2:Zb:129:GLN:HE21	1.20	0.88
2:ZU:183:THR:CB	2:Zf:132:ALA:HA	2.04	0.88
4:E:114:VAL:HG21	5:I:211:MET:HE1	1.53	0.88
2:ZG:380:ARG:NE	2:ZM:393:ASP:OD2	2.07	0.88
1:ZD:28:ASN:OD1	2:ZI:52:VAL:HG13	1.73	0.88
2:ZH:160:SER:O	2:ZN:252:ASN:ND2	2.07	0.87
2:ZY:349:GLY:O	2:Ze:89:ASN:ND2	2.07	0.87
1:7:70:THR:HG23	1:w:85:ASN:OD1	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:V:22:ASN:HB2	9:b:315:ALA:HB2	1.54	0.87
2:ZL:18:ASP:OD1	2:ZQ:2:SER:N	2.07	0.87
1:5:245:LYS:HE3	1:ZB:258:THR:O	1.75	0.87
1:r:73:ARG:HD2	8:V:78:TYR:CZ	2.10	0.87
1:z:2:ILE:O	10:o:70:GLN:OE1	1.90	0.87
7:R:51:LYS:HB3	7:R:55:ARG:HH22	1.13	0.87
1:ZC:122:VAL:O	2:ZH:322:ASN:CB	2.22	0.87
2:ZT:17:LEU:HD13	2:ZY:395:ILE:CD1	2.03	0.87
1:x:9:LYS:HZ1	10:m:72:ASP:HB3	1.34	0.87
1:x:6:TRP:HB2	10:m:70:GLN:CB	2.05	0.87
3:B:59:PHE:HZ	5:G:198:LEU:HD21	1.39	0.87
2:ZT:99:GLN:NE2	2:ZY:58:THR:HG21	1.89	0.87
2:ZI:379:GLN:HG3	2:ZN:391:THR:HG23	1.56	0.87
1:v:257:LEU:HD21	8:Z:98:VAL:HG12	1.57	0.86
1:t:63:PRO:CG	10:o:62:PRO:HA	2.05	0.86
1:0:251:ASP:OD1	1:u:238:ARG:NH2	2.07	0.86
1:1:45:LEU:HD13	10:q:83:GLN:HA	1.55	0.86
2:ZH:331:ASP:HA	2:ZM:40:ALA:HB1	1.57	0.86
2:Za:157:ASN:ND2	2:Zg:143:LEU:HD13	1.90	0.86
1:1:258:THR:HA	10:q:217:MET:HE3	1.55	0.86
1:x:9:LYS:NZ	10:m:72:ASP:CB	2.36	0.86
2:ZU:66:THR:HB	2:Zf:42:MET:CE	2.05	0.86
1:u:46:TYR:HA	1:u:69:GLY:HA2	1.56	0.86
1:4:86:LEU:HD12	2:ZF:42:MET:HE2	1.57	0.86
1:ZC:234:ILE:CG2	2:ZI:393:ASP:OD2	2.22	0.86
1:1:163:GLY:HA2	1:ZC:111:THR:HG21	1.57	0.86
1:u:38:ARG:HH21	10:p:104:ASN:HD21	1.18	0.86
1:u:242:ILE:HD13	10:p:217:MET:HE1	1.56	0.86
8:Y:68:ILE:HD11	9:i:312:VAL:HG21	1.55	0.86
2:ZW:382:TYR:CE1	2:Zb:395:ILE:HG23	2.11	0.85
1:s:2:ILE:CD1	10:n:16:LEU:HD22	2.05	0.85
1:0:180:ASN:ND2	1:v:122:VAL:O	2.09	0.85
2:ZU:372:LEU:HD12	2:Zf:396:LEU:HD21	1.58	0.85
2:ZY:331:ASP:HA	2:Zd:40:ALA:HB1	1.59	0.85
2:ZH:157:ASN:ND2	2:ZN:143:LEU:HD13	1.91	0.85
1:t:245:LYS:HD2	10:o:217:MET:SD	2.16	0.85
1:u:66:LEU:HD13	10:p:59:ALA:O	1.76	0.85
6:O:68:LEU:HD23	8:Z:126:MET:HE2	1.57	0.85
1:1:193:ILE:CG2	10:q:152:PRO:HG2	2.04	0.85
1:ZB:244:SER:HB2	2:ZG:399:LEU:CD2	2.07	0.85
1:t:68:ILE:HG22	10:o:21:VAL:HG22	1.56	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U:90:PRO:HG2	10:q:49:LEU:HB3	1.58	0.85
2:ZZ:269:GLN:OE1	2:Zf:286:PRO:HG3	1.76	0.85
1:1:258:THR:HA	10:q:217:MET:HE1	1.56	0.85
1:r:246:ALA:HB2	10:m:220:MET:CE	2.06	0.85
1:y:1:MET:HA	10:n:211:VAL:O	1.77	0.85
1:0:73:ARG:CD	10:p:202:MET:SD	2.64	0.85
1:2:76:ALA:HB1	1:7:64:SER:O	1.75	0.85
1:3:238:ARG:NH2	1:9:251:ASP:OD2	2.09	0.85
2:ZJ:370:LYS:HE2	2:ZP:11:ASN:ND2	1.92	0.85
1:v:253:MET:CE	10:q:16:LEU:CD2	2.55	0.85
1:0:226:VAL:HB	1:ZB:2:ILE:HD11	1.59	0.85
2:Za:24:ILE:HD13	2:Zf:384:SER:OG	1.77	0.85
1:6:56:SER:CA	10:q:138:ALA:CB	2.36	0.84
2:Zc:18:ASP:HA	2:Zh:5:GLN:HE22	1.41	0.84
7:Q:88:ARG:NH1	7:Q:105:GLU:OE1	2.10	0.84
8:W:3:LEU:N	8:W:8:ASP:OD1	2.09	0.84
2:ZU:17:LEU:HD13	2:ZZ:395:ILE:HD11	1.59	0.84
3:D:52:ILE:HD13	5:I:206:ALA:HB1	1.58	0.84
1:t:72:VAL:HG11	10:o:27:ALA:O	1.77	0.84
1:ZC:56:SER:O	1:w:153:ARG:N	2.10	0.84
2:ZK:27:SER:OG	2:ZP:381:ASN:ND2	2.10	0.84
8:Z:47:VAL:O	9:k:313:PRO:HD2	1.76	0.84
1:6:57:SER:CB	1:w:108:PRO:HG3	2.06	0.84
1:ZB:244:SER:HB2	2:ZG:399:LEU:HD23	1.60	0.84
1:u:45:LEU:HD23	8:Y:76:LEU:HD12	1.60	0.84
1:0:2:ILE:CG2	10:p:212:LYS:HA	2.07	0.84
1:5:94:ASP:OD2	1:ZA:38:ARG:NH1	2.10	0.84
1:ZE:248:SER:CB	2:ZJ:402:LEU:HD22	2.07	0.84
2:ZS:183:THR:HB	2:Zd:131:GLY:O	1.76	0.84
1:x:6:TRP:HB2	10:m:70:GLN:HB3	1.55	0.84
3:C:14:MET:HE3	3:D:63:ILE:HD13	1.58	0.84
1:0:193:ILE:CD1	10:p:152:PRO:HD3	2.07	0.84
1:ZA:235:GLN:HE22	2:ZG:3:PHE:HB3	1.41	0.84
1:0:128:LEU:HD12	1:0:140:ILE:HD12	1.59	0.83
2:ZP:18:ASP:O	2:ZU:5:GLN:NE2	2.11	0.83
1:v:257:LEU:CB	10:q:231:MET:HE3	2.00	0.83
1:6:86:LEU:HD12	2:ZH:42:MET:HE3	0.87	0.83
2:ZS:181:LYS:NZ	2:Zd:129:GLN:NE2	2.26	0.83
3:A:37:ILE:HD13	3:B:44:ILE:HD11	1.59	0.83
2:ZK:270:ASN:HD22	2:ZQ:192:ASN:HA	1.43	0.83
1:t:46:TYR:OH	10:o:34:PHE:HE1	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:138:MET:HE1	5:J:171:LEU:HD23	1.60	0.83
1:t:66:LEU:HD21	10:o:59:ALA:HB3	1.61	0.83
1:r:46:TYR:CE2	10:m:173:ARG:HD3	2.13	0.83
1:t:44:LEU:CD2	8:X:78:TYR:CB	2.54	0.83
1:w:44:LEU:HD22	8:a:78:TYR:HB2	1.59	0.83
1:v:260:LEU:CD1	8:Z:106:MET:SD	2.67	0.83
1:ZE:26:LEU:HD22	2:ZJ:384:SER:OG	1.78	0.83
1:v:3:SER:CB	8:Z:75:LYS:NZ	2.40	0.83
1:0:44:LEU:HD23	10:p:202:MET:SD	2.18	0.82
1:1:83:GLN:HE21	1:ZC:45:LEU:HD12	1.43	0.82
1:6:2:ILE:HD13	1:v:226:VAL:HG22	1.61	0.82
10:p:82:LEU:HD21	10:p:88:LEU:HG	1.60	0.82
8:Z:6:ILE:HG21	8:Z:122:VAL:HG11	1.59	0.82
1:9:57:SER:HA	1:t:154:ASP:HB2	1.59	0.82
1:ZE:207:GLY:O	2:ZK:89:ASN:ND2	2.12	0.82
1:s:44:LEU:HD13	8:W:78:TYR:HB2	1.61	0.82
1:t:1:MET:HG3	8:X:93:MET:HE3	1.60	0.82
3:D:36:SER:OG	4:E:211:LEU:O	1.97	0.82
2:ZS:181:LYS:HZ3	2:Zd:129:GLN:NE2	1.77	0.82
7:R:51:LYS:HE3	7:R:55:ARG:NH1	1.93	0.82
8:W:106:MET:HE2	10:n:5:ILE:HD11	1.62	0.82
2:Za:382:TYR:CD1	2:Zf:395:ILE:HD12	2.14	0.82
1:s:180:ASN:ND2	10:n:107:VAL:O	2.13	0.82
1:x:45:LEU:HD11	10:m:202:MET:CG	2.07	0.82
1:5:44:LEU:HD22	1:u:86:LEU:HD12	1.62	0.82
1:9:56:SER:O	1:t:153:ARG:N	2.13	0.82
6:O:48:ARG:NH2	7:U:6:ASP:OD1	2.12	0.82
1:1:78:GLU:HG2	1:w:121:GLN:NE2	1.95	0.82
1:t:43:ASP:HB3	10:o:28:ASN:ND2	1.94	0.82
1:u:38:ARG:HH11	10:p:74:THR:HG21	1.01	0.82
3:D:84:LEU:HD21	5:J:185:ILE:HG23	1.59	0.82
1:8:1:MET:HE3	1:x:226:VAL:HG21	1.61	0.82
1:9:109:ASP:OD1	1:y:162:GLN:NE2	2.13	0.82
1:s:238:ARG:NH2	1:y:251:ASP:OD1	2.12	0.82
1:t:256:LYS:HG3	10:o:228:GLU:HG2	1.61	0.82
1:1:6:TRP:CB	10:q:70:GLN:HB2	2.10	0.82
1:4:2:ILE:HD13	1:4:250:THR:HG23	1.59	0.82
1:5:189:GLU:HA	1:ZA:42:GLU:OE1	1.79	0.82
1:v:260:LEU:CD2	10:q:231:MET:SD	2.68	0.82
3:D:74:LEU:HD11	5:J:228:LEU:CD1	2.09	0.82
1:7:257:LEU:HG	1:w:230:LEU:HD12	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZD:76:ALA:CB	2:ZI:47:LYS:CE	2.58	0.81
3:D:7:MET:HE1	4:E:233:MET:HB3	1.62	0.81
1:ZA:240:TYR:CE2	2:ZF:395:ILE:CG2	2.62	0.81
1:0:193:ILE:CD1	10:p:152:PRO:CD	2.58	0.81
1:5:238:ARG:NE	1:ZB:251:ASP:OD1	2.11	0.81
1:ZB:28:ASN:ND2	2:ZG:52:VAL:CG2	2.42	0.81
1:s:73:ARG:CG	8:W:78:TYR:CE2	2.63	0.81
1:v:257:LEU:HD13	10:q:231:MET:HE1	1.61	0.81
1:w:9:LYS:NZ	10:q:215:GLU:OE1	2.12	0.81
3:A:17:ALA:HB2	5:G:195:ILE:HD12	1.62	0.81
7:R:51:LYS:CE	7:R:55:ARG:HH22	1.93	0.81
1:u:38:ARG:HH21	10:p:104:ASN:ND2	1.75	0.81
1:ZE:255:GLN:HG3	1:ZE:259:GLN:HE21	1.46	0.81
2:ZS:181:LYS:NZ	2:Zd:129:GLN:HE21	1.79	0.81
2:ZY:373:VAL:CG1	2:Ze:7:VAL:HG22	2.10	0.81
1:t:2:ILE:HG13	1:t:254:LEU:HD11	1.62	0.81
1:w:35:LYS:HD2	1:w:81:HIS:HA	1.62	0.81
1:w:260:LEU:HB3	8:a:106:MET:HE1	1.61	0.81
1:ZA:77:THR:H	2:ZF:47:LYS:HD2	1.43	0.81
2:ZH:390:LYS:HB2	2:ZM:402:LEU:HD22	1.61	0.81
1:r:246:ALA:CA	10:m:220:MET:HE2	2.11	0.81
1:4:85:ASN:OD1	2:ZF:50:LEU:CD2	2.29	0.81
1:ZD:24:ASN:ND2	2:ZI:49:GLY:HA3	1.94	0.81
1:v:179:MET:SD	10:q:131:GLU:CB	2.60	0.81
3:C:28:ALA:HB1	3:C:54:LYS:HE3	1.60	0.81
1:ZD:27:ALA:HB1	2:ZI:52:VAL:HG23	1.63	0.81
1:3:242:ILE:CD1	1:9:1:MET:HE1	2.11	0.81
2:ZN:379:GLN:HG3	2:ZS:391:THR:HG23	1.62	0.81
2:ZQ:181:LYS:NZ	2:Zb:129:GLN:NE2	2.29	0.81
2:ZY:101:LYS:HD2	2:Zd:324:GLU:OE2	1.79	0.81
1:v:242:ILE:CG2	10:q:26:LEU:HD22	2.11	0.81
3:A:74:LEU:HD13	3:A:78:ARG:HH22	1.44	0.81
1:r:62:LEU:CD2	8:W:83:PRO:HG2	2.11	0.80
3:D:29:LEU:HD12	4:E:216:ILE:HG13	1.62	0.80
6:M:68:LEU:HD13	7:R:118:MET:SD	2.21	0.80
8:Z:113:GLN:HB2	10:p:243:ARG:HE	1.43	0.80
1:3:76:ALA:HB1	1:8:64:SER:O	1.81	0.80
1:4:238:ARG:NH2	1:ZA:251:ASP:OD2	2.14	0.80
7:U:33:ALA:O	7:U:98:ASN:ND2	2.13	0.80
1:v:242:ILE:HD13	10:q:213:PRO:HB3	1.64	0.80
2:ZO:236:GLY:HA2	2:ZO:268:GLN:H	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:80:LEU:CD1	10:m:76:ARG:HD3	2.11	0.80
1:t:45:LEU:HD12	10:o:175:ASP:O	1.82	0.80
1:4:54:ALA:HB1	10:o:136:THR:HG21	1.64	0.80
1:t:258:THR:HG22	10:n:229:MET:HG3	1.62	0.80
1:u:62:LEU:CD2	8:Z:84:LEU:HD23	2.12	0.80
1:u:185:GLU:HG3	1:z:67:GLN:HE22	1.45	0.80
2:ZR:390:LYS:HB2	2:ZW:402:LEU:HD22	1.64	0.80
1:5:257:LEU:CD2	1:u:230:LEU:HD12	2.12	0.80
1:8:54:ALA:HB1	1:s:150:THR:CG2	2.09	0.80
1:y:73:ARG:NH2	10:n:203:SER:O	2.14	0.80
1:0:76:ALA:HB1	1:5:64:SER:O	1.82	0.80
1:4:54:ALA:CB	10:o:136:THR:HG21	2.12	0.80
1:ZC:240:TYR:CD2	2:ZH:395:ILE:HG21	2.16	0.80
5:F:141:GLN:HE22	5:F:243:PHE:HB3	1.47	0.80
1:5:55:GLN:O	10:p:138:ALA:CB	2.30	0.79
1:5:219:VAL:HG11	1:ZA:38:ARG:HH22	1.47	0.79
1:6:86:LEU:CD1	2:ZH:42:MET:CE	2.50	0.79
1:ZE:85:ASN:ND2	2:ZP:50:LEU:HD22	1.97	0.79
3:A:52:ILE:HD11	5:F:206:ALA:HB2	1.64	0.79
3:D:58:VAL:CG1	5:J:207:LEU:HD11	2.02	0.79
1:8:56:SER:O	1:s:153:ARG:N	2.16	0.79
1:ZA:45:LEU:HD13	1:z:83:GLN:HG2	1.63	0.79
1:ZB:233:MET:SD	2:ZG:388:THR:HA	2.22	0.79
1:u:253:MET:HE3	10:p:16:LEU:CD2	2.10	0.79
5:F:43:GLN:OE1	7:Q:4:ARG:NH1	2.14	0.79
1:0:51:GLN:HB3	1:0:52:PRO:HD2	1.62	0.79
1:0:108:PRO:HG2	1:u:153:ARG:HH21	1.46	0.79
1:ZE:248:SER:CB	2:ZJ:402:LEU:CD2	2.58	0.79
1:t:38:ARG:HH21	10:o:104:ASN:ND2	1.80	0.79
1:0:153:ARG:HD2	1:0:213:LEU:HD13	1.63	0.79
1:2:124:GLN:O	1:7:179:MET:HE3	1.83	0.79
1:5:9:LYS:HB2	1:z:231:VAL:HG11	1.65	0.79
2:ZR:87:ASP:OD2	2:ZR:88:SER:N	2.15	0.79
1:u:9:LYS:HE3	10:o:215:GLU:HG2	1.63	0.79
7:U:123:LEU:HD23	8:Z:132:LEU:HD11	1.63	0.79
2:ZT:102:LEU:O	2:ZY:322:ASN:HB2	1.83	0.79
2:Zb:387:GLN:NE2	2:Zh:400:VAL:O	2.15	0.79
1:r:44:LEU:HD21	8:V:78:TYR:CB	2.13	0.79
1:s:72:VAL:HB	10:n:28:ASN:OD1	1.81	0.79
1:u:6:TRP:CZ2	8:Y:77:VAL:HB	2.17	0.79
1:x:52:PRO:CD	8:W:80:PRO:HB3	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:39:GLN:NE2	3:B:46:GLU:O	2.13	0.79
3:D:52:ILE:HD11	5:I:206:ALA:HB1	1.63	0.79
8:Y:102:MET:HE3	10:o:229:MET:HG2	1.65	0.79
1:r:44:LEU:CD2	8:V:78:TYR:CB	2.61	0.79
5:I:194:LEU:HD11	5:J:220:PRO:HG2	1.63	0.79
1:0:42:GLU:OE2	1:v:189:GLU:HG2	1.83	0.79
1:ZA:57:SER:HA	1:u:154:ASP:CB	2.13	0.79
1:r:62:LEU:CD1	8:W:84:LEU:HD11	2.13	0.79
1:ZA:122:VAL:O	2:ZF:322:ASN:CG	2.25	0.78
1:ZE:20:ASP:OD2	2:ZJ:2:SER:HB2	1.83	0.78
2:ZH:270:ASN:N	2:ZN:190:GLN:O	2.16	0.78
2:ZT:375:MET:SD	2:ZY:388:THR:HA	2.23	0.78
1:s:66:LEU:HD13	10:n:59:ALA:O	1.83	0.78
8:Y:6:ILE:HG21	8:Y:122:VAL:HG21	1.62	0.78
2:ZQ:160:SER:HA	2:ZQ:268:GLN:HE21	1.48	0.78
7:R:51:LYS:CE	7:R:55:ARG:HH12	1.96	0.78
1:r:197:SER:O	10:m:109:PRO:HG3	1.84	0.78
1:z:48:THR:HG22	10:o:84:GLN:OE1	1.83	0.78
1:2:56:SER:C	10:m:138:ALA:CB	2.52	0.78
2:Zc:331:ASP:HA	2:Zh:40:ALA:HB1	1.66	0.78
1:w:73:ARG:HD2	8:a:78:TYR:CZ	2.18	0.78
1:2:231:VAL:HG11	1:8:9:LYS:HG3	1.66	0.78
1:4:85:ASN:OD1	2:ZF:50:LEU:HD22	1.84	0.78
1:6:1:MET:HE2	1:v:226:VAL:HG11	1.64	0.78
1:v:179:MET:CE	10:q:131:GLU:HB3	2.12	0.78
3:D:25:LEU:HD23	5:J:206:ALA:HB2	1.64	0.78
2:ZQ:65:THR:HA	2:Zb:50:LEU:HD13	1.65	0.78
1:u:50:ARG:HD3	9:i:322:PRO:HG3	1.64	0.78
1:v:46:TYR:O	10:q:175:ASP:OD2	2.00	0.78
1:y:73:ARG:HD2	10:n:202:MET:CE	2.01	0.78
1:y:258:THR:HA	10:n:217:MET:HE1	1.66	0.78
1:z:70:THR:CG2	10:o:71:LEU:HB2	2.13	0.78
3:A:48:THR:HG21	5:F:208:GLY:HA2	1.65	0.78
6:M:61:LEU:HD13	7:R:50:LYS:NZ	1.99	0.78
6:M:77:LYS:NZ	7:S:13:GLN:OE1	2.16	0.78
1:1:52:PRO:HG3	8:a:80:PRO:HB3	1.65	0.78
1:ZA:121:GLN:OE1	2:ZF:324:GLU:HG3	1.83	0.78
1:ZC:218:TYR:OH	2:ZN:53:LYS:HD2	1.84	0.78
2:ZU:183:THR:HB	2:Zf:131:GLY:O	1.84	0.78
5:J:38:TRP:NE1	6:P:43:ASP:OD1	2.16	0.78
1:v:62:LEU:HD21	8:a:83:PRO:HD2	1.62	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:253:MET:HE3	10:q:16:LEU:CD2	2.13	0.78
3:D:7:MET:CE	4:E:233:MET:HB3	2.14	0.78
3:C:29:LEU:HB2	3:D:52:ILE:HG21	1.66	0.78
7:U:103:ASP:OD1	8:a:112:TYR:OH	2.00	0.78
8:W:22:ASN:ND2	10:m:54:ARG:HE	1.81	0.78
1:ZA:44:LEU:HD22	1:z:86:LEU:HD12	1.66	0.77
1:ZA:248:SER:HB2	2:ZF:402:LEU:HD22	1.64	0.77
1:s:45:LEU:HD12	10:n:175:ASP:O	1.83	0.77
5:J:62:THR:HG23	5:J:101:MET:HE2	1.66	0.77
7:Q:93:PRO:HB2	10:m:46:VAL:HG12	1.64	0.77
2:ZQ:2:SER:OG	2:ZQ:3:PHE:N	2.17	0.77
5:G:116:PHE:CE2	7:R:4:ARG:CZ	2.66	0.77
6:L:77:LYS:NZ	7:R:13:GLN:OE1	2.14	0.77
1:6:56:SER:HA	10:q:138:ALA:HB2	1.60	0.77
1:3:218:TYR:CE1	1:ZE:73:ARG:HD2	2.20	0.77
1:6:57:SER:HB3	1:w:108:PRO:CG	2.14	0.77
1:7:235:GLN:HG2	1:ZD:5:LEU:HD21	1.64	0.77
1:x:6:TRP:CD2	10:m:72:ASP:OD1	2.38	0.77
3:D:54:LYS:HZ2	4:E:215:VAL:HA	1.50	0.77
7:T:106:ARG:HH22	10:p:241:GLU:CD	1.92	0.77
10:o:165:LYS:HG3	10:o:199:ILE:HD11	1.67	0.77
1:5:231:VAL:HG11	1:ZB:9:LYS:HG2	1.66	0.77
1:8:36:ARG:NE	1:8:38:ARG:NH2	2.24	0.77
1:ZB:122:VAL:O	2:ZG:322:ASN:ND2	2.18	0.77
8:Y:37:PRO:HB2	9:h:330:THR:CG2	2.14	0.77
10:m:248:LEU:O	10:m:249:SER:C	2.28	0.77
5:G:59:LEU:HD11	6:L:102:MET:HE1	1.67	0.77
2:ZL:29:THR:HG22	2:ZQ:39:PHE:HB2	1.67	0.77
2:ZM:18:ASP:O	2:ZR:5:GLN:NE2	2.18	0.77
7:R:51:LYS:CB	7:R:55:ARG:HH22	1.85	0.77
7:R:90:PRO:HG2	10:n:49:LEU:HB3	1.66	0.77
8:W:103:VAL:HG21	10:n:9:MET:CB	2.15	0.77
1:4:111:THR:HG21	1:t:163:GLY:HA2	1.67	0.76
1:ZA:233:MET:SD	2:ZF:388:THR:HB	2.25	0.76
2:ZF:181:LYS:NZ	2:ZQ:129:GLN:OE1	2.13	0.76
2:ZX:387:GLN:NE2	2:Zd:400:VAL:O	2.18	0.76
1:u:38:ARG:HH11	10:p:74:THR:CG2	1.89	0.76
7:R:92:GLN:HG2	10:n:53:THR:OG1	1.85	0.76
8:V:128:LYS:O	8:V:131:THR:N	2.18	0.76
1:0:47:GLN:HB2	10:p:68:PRO:HG2	1.68	0.76
1:ZC:240:TYR:CD2	2:ZH:395:ILE:HG23	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:73:ARG:HH12	1:x:75:VAL:HG13	1.50	0.76
1:x:194:GLU:OE2	10:m:153:ASN:ND2	2.18	0.76
1:9:218:TYR:OH	2:ZK:53:LYS:HB2	1.85	0.76
1:u:47:GLN:HE22	8:Y:75:LYS:HA	1.49	0.76
9:c:320:PRO:HG2	10:m:58:THR:OG1	1.85	0.76
1:5:52:PRO:HB3	1:5:65:GLY:H	1.49	0.76
2:ZM:380:ARG:NH2	2:ZS:393:ASP:OD1	2.19	0.76
2:ZQ:332:ASN:N	2:ZV:41:ASP:OD2	2.18	0.76
1:1:78:GLU:HG2	1:w:121:GLN:HE22	1.50	0.76
1:ZC:240:TYR:HD2	2:ZH:395:ILE:HG23	1.50	0.76
6:L:48:ARG:HH22	7:R:6:ASP:CG	1.93	0.76
7:T:90:PRO:HG2	10:p:49:LEU:CB	2.16	0.76
8:Z:121:THR:OG1	10:q:248:LEU:O	2.04	0.76
1:3:56:SER:C	10:n:138:ALA:HB1	2.11	0.76
2:Zc:379:GLN:NE2	2:Zh:394:GLN:HE21	1.83	0.76
1:r:9:LYS:HE3	8:a:100:GLY:HA2	1.66	0.76
1:u:38:ARG:NH2	10:p:104:ASN:HD22	1.82	0.76
1:ZB:233:MET:CE	2:ZG:388:THR:OG1	2.28	0.76
2:ZK:401:ASN:O	2:ZK:402:LEU:C	2.28	0.76
6:P:61:LEU:HD21	7:U:50:LYS:HZ3	1.51	0.76
2:ZH:18:ASP:HB3	2:ZM:5:GLN:HE22	1.50	0.75
2:Zh:196:MET:HE3	2:Zh:259:PHE:HZ	1.51	0.75
1:u:242:ILE:CG2	10:p:26:LEU:HD11	2.05	0.75
1:y:70:THR:CG2	10:n:71:LEU:HD22	2.15	0.75
5:I:106:ASP:OD2	6:N:32:VAL:HG23	1.86	0.75
1:2:58:GLU:CG	10:m:160:ARG:NH1	2.48	0.75
1:u:50:ARG:CD	9:i:322:PRO:HG3	2.16	0.75
1:6:86:LEU:CB	2:ZH:42:MET:HE1	2.16	0.75
2:Zh:112:GLN:HE21	2:Zh:331:ASP:HB2	1.51	0.75
1:r:62:LEU:HG	8:W:84:LEU:HD11	1.68	0.75
1:v:253:MET:O	10:q:227:PHE:HE2	1.70	0.75
8:Z:113:GLN:HB2	10:p:243:ARG:CZ	2.17	0.75
1:0:47:GLN:NE2	10:p:67:THR:HG23	2.02	0.75
1:ZC:10:THR:CG2	1:ZC:71:GLY:HA3	2.17	0.75
1:ZE:248:SER:HB2	2:ZJ:402:LEU:HD21	1.64	0.75
2:ZQ:181:LYS:HZ3	2:Zb:129:GLN:NE2	1.85	0.75
1:0:80:LEU:HD13	1:v:91:ASN:HB2	1.68	0.75
2:ZJ:331:ASP:HA	2:ZO:40:ALA:HB1	1.68	0.75
2:ZR:382:TYR:CE1	2:ZW:395:ILE:HG23	2.22	0.75
2:ZT:99:GLN:HE21	2:ZY:58:THR:HG21	1.52	0.75
1:s:72:VAL:HG23	10:n:28:ASN:OD1	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:147:LEU:HD11	1:s:162:GLN:HG2	1.68	0.75
7:T:92:GLN:OE1	10:p:53:THR:OG1	2.04	0.75
1:t:50:ARG:NH1	9:h:328:ILE:HG21	2.02	0.75
1:t:65:GLY:O	10:o:61:THR:N	2.17	0.75
1:v:2:ILE:HD13	8:Z:32:ASP:OD1	1.85	0.75
1:w:73:ARG:HD3	8:a:78:TYR:CD2	2.22	0.75
1:2:56:SER:CA	10:m:138:ALA:HB1	2.16	0.75
1:w:45:LEU:HD23	8:a:90:TYR:CZ	2.21	0.75
1:y:73:ARG:HD3	10:n:202:MET:CE	1.99	0.75
8:Y:37:PRO:HB2	9:h:330:THR:HG23	1.68	0.75
1:ZD:31:THR:HG22	2:ZI:39:PHE:HB2	1.69	0.75
2:ZS:17:LEU:HD13	2:ZX:395:ILE:HD11	1.69	0.75
2:ZV:181:LYS:CD	2:Zg:129:GLN:HE21	1.96	0.75
7:S:92:GLN:HG2	10:o:53:THR:OG1	1.87	0.75
8:Z:109:SER:O	10:p:243:ARG:NH2	2.20	0.75
2:ZR:269:GLN:HB3	2:ZX:286:PRO:HG3	1.68	0.74
2:ZI:144:MET:HE2	2:ZI:310:GLN:HE21	1.50	0.74
2:Zc:101:LYS:HE2	2:Zh:322:ASN:HD21	1.52	0.74
5:G:135:ARG:NH2	5:G:165:VAL:O	2.21	0.74
1:5:145:ASN:HB3	1:ZA:209:ASN:O	1.87	0.74
1:7:231:VAL:HG11	1:ZD:9:LYS:HG2	1.68	0.74
1:ZD:185:GLU:CD	2:ZI:46:SER:HB2	2.12	0.74
1:u:47:GLN:NE2	8:Y:75:LYS:HA	2.01	0.74
1:ZB:122:VAL:HG21	2:ZG:321:ALA:O	1.86	0.74
6:N:57:GLU:HG2	7:S:11:PHE:CE2	2.22	0.74
7:S:103:ASP:OD1	8:Y:112:TYR:OH	2.05	0.74
1:ZB:122:VAL:O	2:ZG:322:ASN:CB	2.36	0.74
2:ZI:2:SER:HB3	2:ZI:392:GLN:HE21	1.51	0.74
2:ZV:387:GLN:CG	2:Zb:400:VAL:HG13	2.16	0.74
1:9:37:GLN:HE21	1:9:79:ARG:HH12	1.34	0.74
2:ZH:160:SER:OG	2:ZN:192:ASN:OD1	2.04	0.74
1:s:62:LEU:CD1	8:X:84:LEU:HD11	2.17	0.74
1:s:189:GLU:HB2	10:m:200:ARG:HH22	1.52	0.74
1:t:44:LEU:HD21	8:X:78:TYR:CB	2.17	0.74
6:P:61:LEU:HD21	7:U:50:LYS:NZ	2.02	0.74
1:0:70:THR:CG2	10:p:71:LEU:HD13	2.06	0.74
2:ZN:401:ASN:O	2:ZN:402:LEU:C	2.31	0.74
2:ZQ:355:LYS:NZ	2:ZW:87:ASP:OD1	2.20	0.74
2:ZW:181:LYS:NZ	2:Zh:129:GLN:HE21	1.85	0.74
1:w:6:TRP:NE1	8:a:77:VAL:CG1	2.51	0.74
9:e:312:VAL:O	9:e:317:SER:OG	2.05	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZF:118:GLY:HA2	2:ZF:316:VAL:HG12	1.68	0.74
2:ZV:234:GLU:HB3	2:Zb:255:THR:CG2	2.18	0.74
1:s:52:PRO:HG3	10:n:172:GLN:NE2	1.99	0.74
1:u:6:TRP:NE1	8:Y:77:VAL:HB	2.03	0.74
1:v:46:TYR:CE1	10:q:173:ARG:HD2	2.22	0.74
1:O:17:THR:HG23	1:5:68:ILE:HD11	1.69	0.74
1:ZA:76:ALA:HA	2:ZF:47:LYS:NZ	2.03	0.74
2:ZR:183:THR:OG1	2:Zc:131:GLY:O	2.03	0.74
2:ZW:69:THR:HG21	2:ZW:361:LEU:HD12	1.69	0.74
2:ZX:382:TYR:CE1	2:Zc:395:ILE:HG23	2.23	0.74
4:E:66:PHE:CE1	7:Q:5:LEU:HD13	2.23	0.74
1:1:9:LYS:CE	10:q:72:ASP:OD1	2.36	0.74
2:ZR:18:ASP:CB	2:ZW:5:GLN:HE22	2.01	0.74
2:ZY:71:ARG:NH1	2:ZY:74:ASP:OD1	2.20	0.74
1:w:258:THR:CG2	10:q:228:GLU:C	2.60	0.74
2:ZQ:369:SER:HA	2:Zb:399:LEU:HD12	1.70	0.73
1:y:6:TRP:CD1	10:n:70:GLN:HG2	2.22	0.73
2:ZP:270:ASN:HD22	2:ZV:192:ASN:HA	1.51	0.73
2:ZS:182:GLY:HA2	2:Zd:131:GLY:HA3	1.70	0.73
1:s:28:ASN:HD21	1:x:43:ASP:HB3	1.53	0.73
1:u:45:LEU:HD23	8:Y:76:LEU:CD1	2.17	0.73
6:N:94:ALA:O	6:N:98:GLU:HG3	1.89	0.73
8:Z:6:ILE:HD13	8:Z:122:VAL:HG21	1.70	0.73
1:2:257:LEU:HG	1:r:230:LEU:HD12	1.68	0.73
1:6:242:ILE:HD12	1:ZC:1:MET:HE1	1.70	0.73
2:ZI:373:VAL:HG21	2:ZO:10:LEU:HD22	1.70	0.73
2:ZW:130:GLN:OE1	2:ZW:130:GLN:N	2.21	0.73
1:v:100:GLN:NE2	1:v:181:ASP:OD2	2.21	0.73
6:M:61:LEU:HD13	7:R:50:LYS:HZ1	1.53	0.73
1:8:57:SER:OG	1:s:154:ASP:OD2	2.05	0.73
1:7:226:VAL:HG11	1:ZC:242:ILE:HD13	1.70	0.73
2:ZU:372:LEU:HD12	2:Zf:396:LEU:CD2	2.19	0.73
1:u:253:MET:HE2	10:p:16:LEU:HD23	1.57	0.73
4:E:23:VAL:HA	4:E:150:LEU:HD21	1.69	0.73
7:Q:93:PRO:HB3	10:m:48:GLY:HA3	1.68	0.73
1:ZB:122:VAL:CG2	2:ZG:321:ALA:O	2.36	0.73
1:ZE:54:ALA:HB1	1:y:150:THR:CG2	2.15	0.73
2:ZW:379:GLN:NE2	2:Zb:394:GLN:OE1	2.21	0.73
3:D:29:LEU:CD1	4:E:216:ILE:HG13	2.18	0.73
1:1:6:TRP:HB2	10:q:70:GLN:HB3	1.68	0.73
1:1:257:LEU:C	10:q:217:MET:HE3	2.12	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:244:SER:OG	1:7:256:LYS:NZ	2.21	0.73
1:v:12:LEU:HB2	10:p:214:VAL:HG11	1.71	0.73
1:y:6:TRP:NE1	10:n:70:GLN:HB3	2.04	0.73
8:X:23:VAL:HG23	10:n:53:THR:HG22	1.69	0.73
1:ZE:31:THR:CG2	2:ZJ:39:PHE:HB2	2.18	0.73
8:Z:22:ASN:OD1	10:p:4:ALA:HB2	1.88	0.73
2:ZH:236:GLY:CA	2:ZN:190:GLN:HE22	2.01	0.73
2:ZT:99:GLN:NE2	2:ZY:38:SER:OG	2.21	0.73
1:r:50:ARG:HH22	10:m:58:THR:HG22	1.54	0.73
8:W:45:LYS:NZ	10:m:55:THR:OG1	2.21	0.73
8:X:79:GLU:HG2	8:X:82:ASN:HB2	1.69	0.73
8:Y:109:SER:HA	10:o:240:ASN:HD21	1.53	0.73
1:8:56:SER:O	1:s:152:GLY:HA3	1.89	0.72
2:ZM:319:ASN:ND2	2:ZM:352:ASN:OD1	2.18	0.72
2:ZZ:269:GLN:CG	2:Zf:286:PRO:HG3	2.19	0.72
1:s:242:ILE:HG21	10:n:26:LEU:CD2	2.12	0.72
1:s:245:LYS:HG2	10:n:217:MET:HE2	1.72	0.72
2:ZS:77:ILE:HG22	2:ZS:356:LEU:HD22	1.71	0.72
1:w:260:LEU:HB3	8:a:106:MET:CE	2.18	0.72
1:1:238:ARG:NE	1:7:251:ASP:OD1	2.20	0.72
1:r:242:ILE:HG23	10:m:26:LEU:HD13	1.70	0.72
1:x:74:PRO:HD2	10:m:73:TYR:CZ	2.24	0.72
7:Q:106:ARG:NH1	10:m:241:GLU:OE2	2.23	0.72
8:W:106:MET:CE	10:n:5:ILE:HD11	2.18	0.72
2:ZL:331:ASP:HA	2:ZQ:40:ALA:HB1	1.72	0.72
2:ZQ:22:ASN:ND2	2:ZV:49:GLY:O	2.23	0.72
2:ZQ:181:LYS:NZ	2:Zb:129:GLN:HE21	1.86	0.72
2:Zd:118:GLY:HA2	2:Zd:316:VAL:HG12	1.71	0.72
1:r:62:LEU:CG	8:W:84:LEU:HD11	2.20	0.72
1:s:72:VAL:CB	10:n:28:ASN:OD1	2.38	0.72
1:s:257:LEU:CD1	8:W:102:MET:SD	2.77	0.72
1:u:180:ASN:ND2	10:p:107:VAL:O	2.21	0.72
1:y:1:MET:H2	10:n:70:GLN:HE21	1.35	0.72
1:4:74:PRO:HB2	1:9:66:LEU:HD21	1.70	0.72
1:ZC:31:THR:HG22	2:ZH:39:PHE:CB	2.19	0.72
2:ZY:269:GLN:HG2	2:Ze:286:PRO:CG	2.19	0.72
1:s:258:THR:HG22	10:m:229:MET:CG	2.15	0.72
1:u:72:VAL:HG11	10:p:27:ALA:O	1.90	0.72
1:x:98:LYS:HD2	1:x:213:LEU:HD12	1.69	0.72
1:1:193:ILE:HG22	10:q:152:PRO:HG3	1.48	0.72
1:8:42:GLU:HB2	1:8:75:VAL:HG23	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:V:103:VAL:HG21	10:m:9:MET:HB2	1.71	0.72
1:v:46:TYR:OH	10:q:173:ARG:NH1	2.23	0.72
1:x:3:SER:CA	10:m:70:GLN:CG	2.36	0.72
7:R:90:PRO:HG2	10:n:49:LEU:CB	2.19	0.72
1:1:6:TRP:CB	10:q:70:GLN:CB	2.68	0.72
1:7:241:GLU:HG2	1:ZC:256:LYS:HG3	1.72	0.72
1:ZB:122:VAL:O	2:ZG:322:ASN:HB2	1.90	0.72
1:8:215:TYR:OH	1:ZE:189:GLU:OE2	2.07	0.72
2:ZR:160:SER:HA	2:ZR:268:GLN:HE21	1.55	0.72
2:Zc:379:GLN:HE22	2:Zh:394:GLN:HE21	1.36	0.72
2:ZM:270:ASN:HD22	2:ZS:192:ASN:HA	1.54	0.72
7:R:46:ALA:O	7:R:50:LYS:HG3	1.90	0.72
8:Y:45:LYS:NZ	10:o:55:THR:OG1	2.22	0.72
2:ZG:45:GLY:O	2:ZG:46:SER:HB3	1.90	0.71
2:ZS:77:ILE:HD11	2:ZS:96:ARG:HD3	1.70	0.71
2:Za:234:GLU:HG3	2:Zg:253:GLY:O	1.90	0.71
1:r:189:GLU:HB2	1:w:42:GLU:OE2	1.90	0.71
7:S:42:ASP:OD2	7:S:43:ILE:N	2.22	0.71
2:ZY:269:GLN:HG2	2:Ze:286:PRO:HG2	1.71	0.71
1:s:260:LEU:HD23	8:W:106:MET:SD	2.30	0.71
1:y:9:LYS:NZ	10:n:72:ASP:HB2	2.04	0.71
1:1:83:GLN:NE2	1:ZC:45:LEU:HD12	2.04	0.71
2:ZF:65:THR:HG23	2:ZQ:50:LEU:HD21	1.72	0.71
2:ZG:45:GLY:O	2:ZG:46:SER:CB	2.38	0.71
1:t:66:LEU:HD21	10:o:59:ALA:CB	2.20	0.71
1:t:250:THR:HA	1:t:253:MET:HE2	1.72	0.71
1:w:257:LEU:HD23	10:q:229:MET:HE2	1.72	0.71
3:A:52:ILE:HD11	5:F:206:ALA:HB1	1.70	0.71
1:3:189:GLU:HA	1:8:42:GLU:CD	2.15	0.71
1:ZE:28:ASN:OD1	2:ZJ:52:VAL:CB	2.37	0.71
1:s:65:GLY:O	10:n:60:SER:HB2	1.88	0.71
1:s:197:SER:HA	10:n:109:PRO:HG2	1.71	0.71
1:t:50:ARG:HH11	9:h:328:ILE:HG21	1.54	0.71
8:W:6:ILE:HG21	8:W:122:VAL:HG21	1.72	0.71
1:1:51:GLN:NE2	1:w:75:VAL:O	2.22	0.71
1:8:208:LEU:O	1:8:210:GLY:N	2.23	0.71
2:ZY:285:LYS:O	2:ZY:306:ASN:ND2	2.20	0.71
1:t:258:THR:OG1	10:n:228:GLU:OE1	2.04	0.71
2:ZG:390:LYS:HB2	2:ZL:402:LEU:HD22	1.72	0.71
2:ZX:289:LEU:O	2:Zc:352:ASN:ND2	2.22	0.71
1:7:167:PRO:CG	2:ZI:338:GLN:OE1	2.39	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZQ:380:ARG:HD2	2:ZW:396:LEU:HB3	1.71	0.71
1:r:44:LEU:CD2	8:V:78:TYR:CD1	2.74	0.71
1:y:4:SER:HB2	1:y:250:THR:HG21	1.72	0.71
1:y:6:TRP:NE1	10:n:70:GLN:CG	2.53	0.71
1:6:76:ALA:HB1	1:ZB:64:SER:O	1.91	0.71
1:7:79:ARG:NH2	1:7:184:LEU:O	2.23	0.71
1:9:226:VAL:HG11	1:ZE:242:ILE:HD13	1.72	0.71
1:ZC:240:TYR:CE2	2:ZH:395:ILE:CG2	2.73	0.71
1:r:242:ILE:HG21	10:m:26:LEU:CD2	2.21	0.71
1:ZC:162:GLN:HG2	2:ZH:351:GLY:HA2	1.73	0.71
2:ZV:65:THR:HG21	2:Zg:4:SER:OG	1.90	0.71
2:Za:373:VAL:HG21	2:Zg:10:LEU:CD2	2.20	0.71
2:Zb:18:ASP:CG	2:Zg:5:GLN:HE22	1.99	0.71
1:s:242:ILE:CG2	10:n:26:LEU:HD13	2.21	0.71
1:t:43:ASP:HB3	10:o:28:ASN:HD21	1.53	0.71
3:A:37:ILE:HD13	3:B:44:ILE:CD1	2.20	0.71
8:Y:22:ASN:OD1	10:o:4:ALA:HB2	1.91	0.71
1:2:230:LEU:HD12	1:ZD:257:LEU:HD23	1.72	0.71
1:3:56:SER:O	10:n:138:ALA:HB1	1.91	0.71
1:3:241:GLU:HG2	1:8:256:LYS:HG3	1.71	0.71
1:ZD:76:ALA:HA	2:ZI:47:LYS:HE3	1.70	0.71
2:ZH:165:PRO:HG2	2:ZH:201:VAL:HG13	1.71	0.71
3:B:39:GLN:HE21	3:B:49:LEU:HD12	1.56	0.71
8:Y:47:VAL:O	9:i:313:PRO:HD2	1.91	0.71
10:q:180:ARG:HH11	10:q:180:ARG:HG3	1.56	0.71
1:ZC:145:ASN:HA	2:ZH:352:ASN:HD22	1.55	0.70
2:ZI:24:ILE:HG22	2:ZN:385:ASN:OD1	1.91	0.70
1:t:44:LEU:HD21	8:X:78:TYR:HB2	1.69	0.70
1:t:208:LEU:HD13	1:t:208:LEU:H	1.56	0.70
2:ZK:18:ASP:HB3	2:ZP:5:GLN:HE22	1.56	0.70
2:ZL:390:LYS:HB2	2:ZQ:402:LEU:HD22	1.74	0.70
1:r:253:MET:O	10:m:227:PHE:CE2	2.44	0.70
1:r:259:GLN:OE1	10:q:243:ARG:NH1	2.23	0.70
1:t:251:ASP:CG	10:n:221:ILE:HG21	2.16	0.70
8:Y:57:GLN:C	8:Y:59:THR:H	1.98	0.70
1:4:55:GLN:O	10:o:138:ALA:CB	2.30	0.70
1:0:47:GLN:NE2	10:p:67:THR:CG2	2.55	0.70
1:6:137:GLN:HA	1:6:138:PRO:C	2.17	0.70
1:9:70:THR:HG22	1:9:71:GLY:H	1.57	0.70
2:Zc:159:ASN:ND2	2:Zc:161:THR:OG1	2.25	0.70
1:u:253:MET:CE	10:p:16:LEU:HD21	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Z:113:GLN:OE1	10:q:245:ASN:ND2	2.16	0.70
2:ZP:324:GLU:OE1	2:ZP:324:GLU:N	2.23	0.70
1:2:83:GLN:HG2	1:ZD:45:LEU:HD22	1.72	0.70
1:5:187:ILE:O	1:z:98:LYS:NZ	2.18	0.70
2:ZH:379:GLN:HE21	2:ZM:391:THR:HG23	1.57	0.70
2:ZU:99:GLN:NE2	2:ZZ:38:SER:OG	2.24	0.70
1:r:189:GLU:HB2	1:w:42:GLU:CD	2.16	0.70
5:H:132:GLN:HA	5:H:135:ARG:HD2	1.73	0.70
5:H:190:PHE:CD1	5:I:220:PRO:HG3	2.26	0.70
1:0:195:THR:HG23	10:p:152:PRO:HB2	1.72	0.70
2:ZH:157:ASN:HD21	2:ZN:143:LEU:HD13	1.53	0.70
2:ZZ:157:ASN:HB3	2:ZZ:271:THR:HG21	1.72	0.70
1:s:242:ILE:HG22	10:n:26:LEU:HD13	1.72	0.70
5:G:45:LEU:CD1	6:M:86:ILE:HG12	2.22	0.70
6:K:77:LYS:HG3	7:Q:5:LEU:HD21	1.73	0.70
1:0:242:ILE:HD12	1:v:230:LEU:HD11	1.72	0.70
1:3:17:THR:HG23	1:8:68:ILE:HD11	1.74	0.70
1:ZE:85:ASN:CG	2:ZP:50:LEU:CD2	2.65	0.70
8:Z:103:VAL:HG21	10:q:9:MET:HB2	1.73	0.70
2:ZJ:349:GLY:O	2:ZP:89:ASN:ND2	2.25	0.70
2:ZZ:369:SER:HB3	2:Zf:382:TYR:OH	1.92	0.70
1:u:197:SER:C	10:p:109:PRO:HG3	2.17	0.70
1:6:17:THR:HG23	1:ZB:68:ILE:HD11	1.72	0.69
1:6:56:SER:HA	10:q:138:ALA:HB1	0.71	0.69
1:ZA:42:GLU:HG2	1:ZA:75:VAL:HG23	1.73	0.69
2:ZV:102:LEU:HD21	2:ZV:106:ARG:HD3	1.74	0.69
8:Z:21:LEU:HD21	10:p:237:VAL:HG22	1.74	0.69
2:ZJ:370:LYS:HE2	2:ZP:11:ASN:HD21	1.53	0.69
2:Zg:110:ASN:HB2	2:Zg:114:MET:HB2	1.73	0.69
1:t:46:TYR:OH	10:o:34:PHE:CE1	2.45	0.69
1:v:197:SER:CA	10:q:109:PRO:HG3	2.16	0.69
3:D:54:LYS:NZ	4:E:215:VAL:HA	2.06	0.69
7:Q:90:PRO:HD2	10:m:49:LEU:HD21	1.72	0.69
8:Z:102:MET:SD	10:p:229:MET:HG2	2.33	0.69
1:y:1:MET:CA	10:n:211:VAL:O	2.39	0.69
7:S:128:LYS:HE2	8:X:134:GLN:HG2	1.74	0.69
1:5:124:GLN:HB2	1:ZA:199:GLY:HA2	1.74	0.69
1:5:240:TYR:HE1	1:ZA:257:LEU:HB2	1.56	0.69
1:ZD:27:ALA:C	2:ZI:52:VAL:CG2	2.64	0.69
2:ZY:42:MET:HG2	2:ZY:53:LYS:HG2	1.73	0.69
2:ZY:382:TYR:CE1	2:Zd:395:ILE:HG23	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZZ:269:GLN:HG2	2:Zf:286:PRO:HG3	1.73	0.69
1:x:89:THR:O	1:x:91:ASN:N	2.25	0.69
7:T:91:ASP:OD2	7:T:104:ARG:NH1	2.25	0.69
8:a:37:PRO:HG3	10:q:45:PRO:CD	2.23	0.69
1:1:251:ASP:OD1	1:v:238:ARG:NE	2.25	0.69
2:ZQ:373:VAL:HG11	2:ZW:7:VAL:HG22	1.74	0.69
2:ZV:269:GLN:OE1	2:Zb:190:GLN:HA	1.91	0.69
2:Zd:2:SER:OG	2:Zd:3:PHE:N	2.25	0.69
1:u:66:LEU:CD1	10:p:59:ALA:O	2.41	0.69
1:v:127:GLN:HE22	1:v:139:ALA:HB1	1.55	0.69
5:G:116:PHE:CE2	7:R:4:ARG:NH2	2.61	0.69
1:2:128:LEU:HD12	1:2:140:ILE:HG13	1.75	0.69
1:9:85:ASN:HD22	2:ZK:4:SER:HB2	0.60	0.69
1:ZE:167:PRO:HG2	2:ZP:338:GLN:NE2	2.07	0.69
2:ZQ:183:THR:HG21	2:Zb:132:ALA:HA	1.75	0.69
2:ZS:390:LYS:HE2	2:ZS:394:GLN:HE22	1.57	0.69
1:7:98:LYS:NZ	1:ZD:187:ILE:O	2.25	0.69
1:ZA:111:THR:CG2	1:z:163:GLY:HA2	2.19	0.69
2:ZK:380:ARG:NH2	2:ZQ:393:ASP:OD1	2.25	0.69
1:r:46:TYR:HB2	10:m:175:ASP:HA	1.75	0.69
1:u:260:LEU:HD21	10:p:234:ILE:HG21	1.75	0.69
1:v:62:LEU:HD23	8:a:83:PRO:HG2	1.74	0.69
1:v:189:GLU:H	10:p:200:ARG:HH12	1.38	0.69
7:Q:93:PRO:HB3	10:m:48:GLY:CA	2.22	0.69
1:ZD:218:TYR:OH	2:ZO:53:LYS:HD2	1.93	0.69
2:ZU:309:GLU:OE1	2:Zf:338:GLN:NE2	2.25	0.69
2:Zb:349:GLY:O	2:Zh:89:ASN:ND2	2.26	0.69
1:s:179:MET:SD	10:n:132:GLY:HA3	2.32	0.69
1:s:253:MET:CE	10:n:224:ALA:N	2.56	0.69
1:t:44:LEU:HB3	8:X:90:TYR:CZ	2.25	0.69
1:w:254:LEU:HD22	10:q:229:MET:HE1	1.75	0.69
10:p:1:MET:HG2	10:p:241:GLU:CD	2.18	0.69
1:0:193:ILE:HD12	10:p:152:PRO:HD2	1.73	0.69
1:4:51:GLN:NE2	10:o:146:LEU:CD1	2.56	0.69
2:ZO:111:MET:HA	2:ZO:111:MET:HE3	1.75	0.69
1:x:52:PRO:CD	8:W:80:PRO:CB	2.70	0.69
5:J:143:ARG:HH22	5:J:177:SER:HA	1.58	0.69
1:0:238:ARG:HH21	1:6:255:GLN:HB2	1.57	0.69
1:3:257:LEU:HG	1:s:230:LEU:HD12	1.74	0.69
2:ZR:165:PRO:HG2	2:ZR:201:VAL:HG13	1.73	0.69
2:ZU:159:ASN:ND2	2:ZU:161:THR:OG1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zb:238:LEU:HD21	2:Zb:242:GLY:HA3	1.75	0.69
5:F:60:MET:HE1	5:G:91:GLY:HA3	1.74	0.69
1:5:5:LEU:HD23	1:z:235:GLN:HG3	1.76	0.68
1:ZE:85:ASN:CG	2:ZP:50:LEU:HD22	2.18	0.68
2:ZT:349:GLY:O	2:ZZ:89:ASN:ND2	2.27	0.68
2:Zc:238:LEU:HD21	2:Zc:242:GLY:HA3	1.73	0.68
2:Ze:84:ARG:NH1	2:Ze:134:PRO:HB2	2.08	0.68
5:G:45:LEU:HD13	6:M:86:ILE:HG12	1.73	0.68
8:Z:68:ILE:HD11	9:k:312:VAL:CG2	2.24	0.68
1:0:51:GLN:O	1:0:52:PRO:C	2.35	0.68
1:6:1:MET:HB2	1:v:29:VAL:HG11	1.75	0.68
2:ZH:208:TRP:NE1	2:ZH:268:GLN:OE1	2.25	0.68
2:ZK:107:ASN:ND2	2:ZK:138:THR:OG1	2.26	0.68
5:J:38:TRP:HA	6:P:46:SER:OG	1.93	0.68
6:M:48:ARG:NH2	7:S:6:ASP:OD2	2.26	0.68
1:0:52:PRO:HB3	8:Z:87:ALA:O	1.94	0.68
1:5:73:ARG:HB2	1:u:218:TYR:OH	1.93	0.68
2:ZF:65:THR:HB	2:ZF:363:ALA:HB3	1.75	0.68
2:ZT:331:ASP:HA	2:ZY:40:ALA:HB1	1.74	0.68
1:s:246:ALA:HA	10:n:220:MET:SD	2.34	0.68
2:ZL:10:LEU:HD21	2:ZQ:399:LEU:HD11	1.76	0.68
2:ZQ:27:SER:OG	2:ZV:381:ASN:ND2	2.27	0.68
2:ZT:18:ASP:HB3	2:ZY:5:GLN:HE22	1.59	0.68
2:Zc:210:VAL:O	2:Zc:227:SER:N	2.26	0.68
1:y:6:TRP:CD1	10:n:70:GLN:CG	2.76	0.68
1:y:257:LEU:O	10:n:217:MET:SD	2.50	0.68
3:B:14:MET:HG3	3:C:59:PHE:HE1	1.56	0.68
3:D:78:ARG:HE	5:J:229:VAL:HG12	1.58	0.68
1:2:58:GLU:CG	10:m:140:ASP:OD2	2.40	0.68
2:ZF:5:GLN:NE2	2:ZF:49:GLY:O	2.26	0.68
1:x:73:ARG:NH2	10:m:202:MET:CE	2.57	0.68
5:F:109:TYR:HA	5:F:113:TYR:HB2	1.74	0.68
5:J:68:ILE:HD11	6:O:104:VAL:HG12	1.75	0.68
6:M:80:VAL:HG22	7:S:131:MET:HG2	1.75	0.68
1:4:17:THR:HG23	1:9:68:ILE:HD11	1.76	0.68
1:6:218:TYR:OH	2:ZH:53:LYS:CG	2.41	0.68
1:r:257:LEU:HA	10:m:231:MET:HE2	1.74	0.68
3:C:40:ALA:HB2	3:D:44:ILE:CD1	2.24	0.68
9:b:320:PRO:O	9:b:322:PRO:HD3	1.93	0.68
1:ZB:240:TYR:OH	2:ZG:399:LEU:HD11	1.93	0.68
1:r:72:VAL:HB	10:m:28:ASN:OD1	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:116:PHE:CE1	7:U:4:ARG:NH2	2.61	0.68
2:ZJ:180:LYS:HD3	2:ZJ:274:ASN:HD22	1.57	0.68
2:ZQ:178:TYR:HA	2:ZQ:201:VAL:HG12	1.74	0.68
2:ZU:17:LEU:CD1	2:ZZ:395:ILE:HD11	2.24	0.68
2:ZW:269:GLN:OE1	2:Zc:286:PRO:HG3	1.94	0.68
1:r:44:LEU:HD23	8:V:78:TYR:CD1	2.28	0.68
1:s:194:GLU:HG3	1:s:199:GLY:HA2	1.76	0.68
3:B:59:PHE:CZ	5:G:198:LEU:HD21	2.25	0.68
5:J:144:GLU:O	5:J:147:LEU:N	2.26	0.68
7:T:32:ASN:HD22	8:Y:62:VAL:HG12	1.59	0.68
1:ZD:77:THR:H	2:ZI:47:LYS:CD	2.05	0.68
1:ZE:42:GLU:OE2	1:ZE:73:ARG:NH1	2.24	0.68
2:ZJ:382:TYR:CE1	2:ZO:395:ILE:HG23	2.29	0.68
2:ZM:156:ILE:HD12	2:ZM:276:ILE:HG12	1.75	0.68
2:ZT:208:TRP:NE1	2:ZT:268:GLN:OE1	2.26	0.68
2:ZT:375:MET:HE1	2:ZY:388:THR:OG1	1.94	0.68
2:ZU:379:GLN:HG2	2:ZU:380:ARG:HH21	1.57	0.68
4:E:166:SER:O	4:E:168:ALA:N	2.26	0.68
7:T:93:PRO:HB3	10:p:48:GLY:HA3	1.75	0.68
1:7:218:TYR:OH	2:ZI:53:LYS:HG3	1.94	0.68
2:ZR:331:ASP:HA	2:ZW:40:ALA:HB1	1.75	0.68
2:ZS:379:GLN:NE2	2:ZX:394:GLN:OE1	2.25	0.68
2:ZY:2:SER:OG	2:ZY:3:PHE:N	2.24	0.68
1:s:198:SER:H	10:n:109:PRO:HG3	1.59	0.68
5:J:86:ASN:O	5:J:88:VAL:N	2.27	0.68
1:7:73:ARG:HB2	1:w:218:TYR:OH	1.94	0.67
1:7:257:LEU:CG	1:w:230:LEU:HD12	2.24	0.67
2:ZH:285:LYS:HG2	2:ZH:286:PRO:HD2	1.76	0.67
2:ZP:349:GLY:O	2:ZV:89:ASN:ND2	2.27	0.67
2:ZU:379:GLN:HE22	2:ZZ:391:THR:HA	1.59	0.67
2:Za:309:GLU:OE1	2:Za:309:GLU:N	2.27	0.67
1:r:260:LEU:HD12	10:m:235:THR:OG1	1.93	0.67
1:0:85:ASN:OD1	1:ZB:70:THR:HG22	1.94	0.67
2:ZT:210:VAL:O	2:ZT:227:SER:N	2.27	0.67
1:t:258:THR:CG2	10:n:229:MET:HE3	2.24	0.67
1:u:72:VAL:HG12	10:p:27:ALA:HB1	1.76	0.67
7:Q:91:ASP:O	10:m:50:SER:HB3	1.94	0.67
1:ZD:137:GLN:HA	1:ZD:139:ALA:H	1.60	0.67
2:ZL:294:ILE:O	2:ZL:358:ASN:ND2	2.27	0.67
2:ZX:17:LEU:HD13	2:Zc:395:ILE:HD11	1.77	0.67
1:u:62:LEU:HG	8:Z:84:LEU:CD2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:256:LYS:CD	10:p:228:GLU:HG2	2.24	0.67
1:v:62:LEU:HD23	8:a:83:PRO:HD2	1.74	0.67
1:v:257:LEU:CD1	10:q:231:MET:CE	2.67	0.67
1:1:22:ILE:HG21	1:1:233:MET:HG3	1.77	0.67
1:1:257:LEU:HD23	10:q:213:PRO:HB2	1.77	0.67
1:ZA:122:VAL:O	2:ZF:322:ASN:OD1	2.13	0.67
2:ZM:373:VAL:HG21	2:ZS:10:LEU:HD23	1.77	0.67
2:ZW:102:LEU:O	2:Zb:322:ASN:ND2	2.28	0.67
1:s:73:ARG:HD2	8:W:78:TYR:CZ	2.28	0.67
1:2:56:SER:HA	10:m:138:ALA:CB	2.24	0.67
1:ZD:31:THR:HG22	2:ZI:39:PHE:CB	2.25	0.67
1:y:1:MET:H1	10:n:70:GLN:NE2	1.85	0.67
8:X:103:VAL:HG21	10:o:9:MET:HB2	1.77	0.67
1:4:226:VAL:HG11	1:9:242:ILE:HD13	1.75	0.67
2:ZG:160:SER:OG	2:ZM:192:ASN:OD1	2.13	0.67
2:ZH:349:GLY:O	2:ZN:89:ASN:ND2	2.26	0.67
1:r:246:ALA:CA	10:m:220:MET:CE	2.73	0.67
1:r:246:ALA:CB	10:m:220:MET:CE	2.71	0.67
1:s:189:GLU:HB2	10:m:200:ARG:NH2	2.06	0.67
1:y:2:ILE:HD11	10:n:213:PRO:CD	2.23	0.67
8:W:103:VAL:HG21	10:n:9:MET:HG3	1.76	0.67
1:ZB:205:THR:HB	1:ZB:208:LEU:HG	1.75	0.67
2:ZF:331:ASP:HA	2:ZK:40:ALA:HB1	1.76	0.67
1:y:193:ILE:HG21	10:n:152:PRO:HD2	1.76	0.67
8:V:6:ILE:HG21	8:V:122:VAL:HG21	1.76	0.67
1:0:99:GLY:O	1:0:116:ARG:NH2	2.28	0.67
1:2:230:LEU:HD21	1:7:242:ILE:HG23	1.75	0.67
1:4:70:THR:HG22	1:4:71:GLY:H	1.60	0.67
1:ZC:115:THR:HB	1:ZC:191:LEU:HD23	1.77	0.67
2:ZK:374:ASN:O	2:ZK:377:VAL:N	2.26	0.67
2:ZO:317:LEU:HD11	2:ZO:356:LEU:HD21	1.76	0.67
2:Zc:379:GLN:HE22	2:Zh:394:GLN:NE2	1.93	0.67
6:N:75:MET:SD	7:S:122:VAL:HG22	2.35	0.67
7:U:36:PRO:HB3	7:U:96:ASP:HB2	1.77	0.67
1:0:42:GLU:HG3	1:v:190:ASN:HB2	1.76	0.67
1:1:70:THR:CG2	10:q:71:LEU:HG	2.22	0.67
1:8:111:THR:CG2	1:x:163:GLY:HA2	2.22	0.67
1:ZB:28:ASN:HD21	2:ZG:52:VAL:HG23	1.57	0.67
2:ZY:27:SER:OG	2:Zd:381:ASN:ND2	2.28	0.67
2:Zh:3:PHE:HE2	2:Zh:396:LEU:HD12	1.60	0.67
1:s:40:VAL:HG11	10:n:104:ASN:ND2	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:158:SER:HA	1:s:169:GLN:HA	1.77	0.67
2:ZI:373:VAL:HG23	2:ZT:399:LEU:HD21	1.77	0.67
2:ZM:380:ARG:HB3	2:ZS:396:LEU:HD13	1.77	0.67
1:v:251:ASP:OD2	10:p:221:ILE:HG21	1.95	0.67
1:y:185:GLU:OE1	10:n:152:PRO:HG3	1.94	0.67
3:B:21:ALA:HB2	5:H:199:VAL:HG23	1.77	0.67
6:K:73:ALA:HB1	6:K:77:LYS:HZ3	1.60	0.67
10:n:35:ARG:HA	10:n:210:ASN:HD21	1.60	0.67
1:3:230:LEU:HD12	1:ZE:257:LEU:HD13	1.77	0.66
1:4:98:LYS:NZ	1:ZA:187:ILE:O	2.19	0.66
1:5:259:GLN:O	1:5:260:LEU:C	2.37	0.66
1:ZA:22:ILE:HG21	1:ZA:233:MET:HG3	1.76	0.66
2:ZX:269:GLN:OE1	2:Zd:286:PRO:HG3	1.94	0.66
2:Zc:29:THR:HG23	2:Zh:39:PHE:HB2	1.77	0.66
1:s:253:MET:HE3	10:n:224:ALA:CA	2.25	0.66
7:S:31:ALA:HB1	8:X:13:ALA:HB2	1.75	0.66
10:q:116:GLN:HG3	10:q:118:HIS:CD2	2.30	0.66
1:8:75:VAL:O	1:ZD:50:ARG:NH1	2.27	0.66
1:ZA:235:GLN:NE2	2:ZG:3:PHE:HB3	2.10	0.66
1:ZE:240:TYR:CE2	2:ZJ:395:ILE:HG23	2.30	0.66
1:t:242:ILE:HG22	10:o:26:LEU:HD13	1.75	0.66
1:v:46:TYR:CE1	10:q:173:ARG:NH1	2.62	0.66
1:y:52:PRO:HG2	8:X:89:GLY:N	2.11	0.66
6:K:75:MET:HE1	6:P:88:VAL:HG22	1.76	0.66
1:9:73:ARG:HG3	1:y:218:TYR:OH	1.95	0.66
2:Za:102:LEU:O	2:Zf:322:ASN:HB2	1.95	0.66
1:s:253:MET:CE	10:n:224:ALA:HA	2.25	0.66
3:A:48:THR:CG2	5:F:208:GLY:HA2	2.25	0.66
8:V:68:ILE:HD11	9:c:312:VAL:CG2	2.26	0.66
2:ZZ:210:VAL:O	2:ZZ:227:SER:N	2.28	0.66
1:s:73:ARG:HG3	8:W:78:TYR:CE2	2.30	0.66
1:t:238:ARG:NH2	1:z:251:ASP:OD1	2.23	0.66
1:y:22:ILE:HD11	1:y:232:ASN:HB3	1.76	0.66
1:y:73:ARG:CZ	10:n:202:MET:HE2	2.23	0.66
1:y:128:LEU:HD12	1:y:140:ILE:HD12	1.77	0.66
1:9:175:LEU:HD11	1:9:214:LEU:HD21	1.77	0.66
2:ZI:156:ILE:HG13	2:ZI:276:ILE:HA	1.76	0.66
2:ZQ:390:LYS:HB2	2:ZV:402:LEU:HD22	1.76	0.66
2:Zd:154:MET:HE2	2:Zd:263:PHE:HE1	1.60	0.66
1:v:260:LEU:HD11	8:Z:106:MET:SD	2.35	0.66
8:W:99:VAL:HG11	10:n:12:ALA:HB3	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:W:122:VAL:O	8:W:126:MET:HG2	1.96	0.66
2:ZL:165:PRO:HG3	2:ZL:179:ASN:HD21	1.60	0.66
2:ZM:204:LYS:HD2	2:ZM:205:ASP:H	1.59	0.66
1:r:229:GLU:O	1:r:233:MET:HG3	1.95	0.66
1:s:253:MET:HE1	10:n:223:ASN:CB	2.25	0.66
1:u:242:ILE:HD13	10:p:217:MET:CE	2.24	0.66
1:v:3:SER:CB	8:Z:75:LYS:HZ3	2.07	0.66
1:x:195:THR:HG22	1:x:197:SER:H	1.59	0.66
6:M:75:MET:HE1	7:R:122:VAL:HG13	1.78	0.66
1:8:36:ARG:CZ	1:8:38:ARG:HH22	2.08	0.66
1:t:229:GLU:O	1:t:233:MET:HG3	1.96	0.66
1:u:242:ILE:HG22	10:p:26:LEU:CD1	2.13	0.66
1:2:238:ARG:O	1:2:239:ALA:C	2.39	0.66
2:ZF:157:ASN:ND2	2:ZL:143:LEU:HD13	2.10	0.66
2:ZT:17:LEU:CD1	2:ZY:395:ILE:HD11	2.22	0.66
2:ZZ:104:GLU:OE1	2:Ze:338:GLN:NE2	2.29	0.66
1:y:1:MET:CB	10:n:211:VAL:O	2.43	0.66
1:ZE:50:ARG:HB3	1:ZE:66:LEU:H	1.61	0.66
2:ZM:33:LYS:HD2	2:ZM:61:PHE:HA	1.77	0.66
1:s:82:SER:HB3	1:s:223:ASN:HD21	1.61	0.66
5:G:116:PHE:HE2	7:R:4:ARG:CZ	2.08	0.66
5:J:68:ILE:O	5:J:71:PHE:N	2.29	0.66
10:m:35:ARG:O	10:m:173:ARG:NH2	2.28	0.66
1:2:196:GLN:HE22	1:7:55:GLN:HE21	1.44	0.66
1:ZD:205:THR:HB	1:ZD:208:LEU:HD23	1.77	0.66
2:ZR:337:THR:HG22	2:ZR:339:ALA:H	1.61	0.66
2:ZS:196:MET:HA	2:ZS:196:MET:HE3	1.78	0.66
2:ZX:380:ARG:HE	2:Zd:393:ASP:CG	2.03	0.66
1:w:130:THR:HG23	1:w:132:GLY:H	1.61	0.66
1:z:6:TRP:HZ3	10:o:208:GLY:HA3	1.61	0.66
5:J:143:ARG:NH2	5:J:177:SER:HA	2.10	0.66
7:Q:93:PRO:HB3	10:m:48:GLY:N	2.11	0.66
8:X:113:GLN:HE21	10:n:240:ASN:ND2	1.94	0.66
1:2:51:GLN:NE2	10:m:134:GLU:OE2	2.29	0.65
1:7:257:LEU:HG	1:w:230:LEU:CD1	2.25	0.65
1:8:17:THR:HG23	1:ZD:68:ILE:HD11	1.76	0.65
2:ZX:285:LYS:O	2:ZX:306:ASN:ND2	2.23	0.65
1:s:38:ARG:NH2	10:n:206:LEU:HD22	2.11	0.65
1:v:179:MET:HE3	10:q:131:GLU:HG2	1.78	0.65
1:4:86:LEU:HD12	2:ZF:42:MET:HE1	1.78	0.65
1:ZA:42:GLU:OE2	1:ZA:73:ARG:NH1	2.28	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZK:331:ASP:HA	2:ZP:40:ALA:HB1	1.78	0.65
1:u:73:ARG:HD3	8:Y:78:TYR:CZ	2.31	0.65
1:ZA:208:LEU:O	1:ZA:210:GLY:N	2.30	0.65
2:ZK:270:ASN:ND2	2:ZQ:192:ASN:HA	2.12	0.65
2:ZL:373:VAL:O	2:ZL:376:ILE:N	2.27	0.65
1:r:17:THR:HG23	1:w:68:ILE:HD11	1.78	0.65
1:u:52:PRO:HA	1:u:64:SER:O	1.96	0.65
1:w:6:TRP:NE1	8:a:77:VAL:HG11	2.12	0.65
9:k:312:VAL:O	9:k:317:SER:OG	2.11	0.65
1:ZC:99:GLY:HA3	1:ZC:212:GLY:HA3	1.79	0.65
2:ZX:2:SER:OG	2:ZX:3:PHE:N	2.27	0.65
4:E:193:LEU:HD22	4:E:228:LEU:HD11	1.77	0.65
5:H:66:ARG:NH2	5:H:242:SER:OG	2.30	0.65
1:0:6:TRP:HB2	10:p:70:GLN:HB3	1.77	0.65
1:ZB:28:ASN:HD22	2:ZG:52:VAL:HG23	1.61	0.65
2:ZK:112:GLN:HE21	2:ZK:331:ASP:HB3	1.61	0.65
1:w:153:ARG:HG2	1:w:213:LEU:HD12	1.78	0.65
3:A:83:ASN:O	3:A:87:ILE:HG23	1.97	0.65
5:I:204:LEU:HD22	5:I:212:VAL:HG11	1.78	0.65
7:T:93:PRO:HD3	10:p:51:LEU:O	1.96	0.65
1:2:122:VAL:O	1:7:180:ASN:ND2	2.29	0.65
1:ZB:28:ASN:HD22	1:ZB:31:THR:HG21	1.62	0.65
2:ZF:379:GLN:HG3	2:ZK:391:THR:HG23	1.79	0.65
2:ZL:144:MET:HE3	2:ZL:306:ASN:HD21	1.61	0.65
2:ZQ:288:ASP:H	2:ZQ:305:SER:HB3	1.61	0.65
2:ZV:234:GLU:HB3	2:Zb:255:THR:HG22	1.78	0.65
1:t:6:TRP:NE1	8:X:77:VAL:HB	2.11	0.65
1:u:50:ARG:CB	9:i:322:PRO:HG3	2.26	0.65
5:F:58:LEU:O	5:F:62:THR:OG1	2.14	0.65
1:2:55:GLN:HG2	10:m:142:THR:HG21	1.78	0.65
1:ZA:37:GLN:HG2	1:ZA:79:ARG:HD3	1.77	0.65
1:ZE:205:THR:HB	1:ZE:208:LEU:HD22	1.77	0.65
2:ZK:18:ASP:HB3	2:ZP:5:GLN:NE2	2.11	0.65
2:ZL:269:GLN:HG3	2:ZL:270:ASN:H	1.61	0.65
2:Za:104:GLU:CD	2:Zf:341:GLY:HA2	2.21	0.65
2:Zc:390:LYS:HB2	2:Zh:402:LEU:HD22	1.79	0.65
1:t:38:ARG:NH2	10:o:104:ASN:ND2	2.44	0.65
1:u:50:ARG:HG3	9:i:322:PRO:HG3	1.77	0.65
1:5:70:THR:HG23	1:u:85:ASN:CG	2.21	0.65
1:ZE:85:ASN:HD22	2:ZP:4:SER:CB	2.10	0.65
1:t:153:ARG:HH21	1:z:108:PRO:HG2	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:6:TRP:NE1	10:n:70:GLN:CB	2.59	0.65
1:1:42:GLU:OE1	1:w:189:GLU:HA	1.96	0.65
1:ZE:85:ASN:ND2	2:ZP:50:LEU:CD2	2.60	0.65
2:ZI:294:ILE:O	2:ZI:358:ASN:ND2	2.29	0.65
1:s:73:ARG:HG3	8:W:78:TYR:HE2	1.62	0.65
1:w:44:LEU:CD2	8:a:78:TYR:HB2	2.27	0.65
1:y:6:TRP:HE1	10:n:70:GLN:CD	2.04	0.65
1:0:2:ILE:HG23	10:p:212:LYS:HA	1.79	0.65
1:1:43:ASP:HA	1:1:72:VAL:HA	1.78	0.65
2:ZN:269:GLN:NE2	2:ZT:146:ALA:HB3	2.12	0.65
2:ZO:235:ASN:HD22	2:ZU:189:SER:HB2	1.61	0.65
1:r:62:LEU:HD11	8:W:84:LEU:HD11	1.77	0.65
1:r:238:ARG:NH2	1:x:251:ASP:OD1	2.26	0.65
1:s:73:ARG:HD2	8:W:78:TYR:OH	1.97	0.65
1:t:245:LYS:HD3	10:o:220:MET:HE3	1.77	0.65
6:O:76:GLN:NE2	8:Z:132:LEU:O	2.29	0.65
1:0:115:THR:HB	1:0:191:LEU:HD23	1.79	0.64
1:8:46:TYR:HA	1:8:69:GLY:HA2	1.79	0.64
1:8:151:ILE:HG23	1:8:157:VAL:HG22	1.79	0.64
1:ZA:76:ALA:HA	2:ZF:47:LYS:CD	2.27	0.64
1:ZE:31:THR:CG2	2:ZJ:39:PHE:CB	2.72	0.64
2:ZG:118:GLY:HA2	2:ZG:316:VAL:HG12	1.77	0.64
2:ZJ:57:ILE:HG13	2:ZO:47:LYS:HB2	1.78	0.64
2:ZM:223:PRO:HD2	2:ZM:223:PRO:O	1.97	0.64
2:ZW:380:ARG:CZ	2:Zc:393:ASP:OD2	2.45	0.64
2:ZZ:269:GLN:CD	2:Zf:286:PRO:HG3	2.22	0.64
1:v:257:LEU:HD11	8:Z:102:MET:HG3	1.79	0.64
1:w:258:THR:CG2	10:q:228:GLU:HB2	2.06	0.64
5:J:85:PRO:O	5:J:86:ASN:C	2.40	0.64
5:J:86:ASN:O	5:J:89:LEU:N	2.29	0.64
1:4:56:SER:O	10:o:138:ALA:CB	2.32	0.64
1:7:70:THR:HG22	1:7:71:GLY:H	1.62	0.64
1:8:1:MET:HB3	1:x:29:VAL:HB	1.79	0.64
1:ZA:145:ASN:HA	2:ZF:352:ASN:ND2	2.10	0.64
2:ZQ:18:ASP:O	2:ZV:5:GLN:NE2	2.27	0.64
2:ZU:155:GLN:HG3	2:ZU:277:VAL:HB	1.79	0.64
2:ZV:267:MET:HE3	2:ZV:269:GLN:HE21	1.61	0.64
7:R:36:PRO:HB3	7:R:96:ASP:HB2	1.79	0.64
8:W:103:VAL:HG11	10:n:9:MET:HE3	1.79	0.64
10:q:133:SER:HA	10:q:148:PRO:HD3	1.77	0.64
1:3:50:ARG:HH21	1:y:73:ARG:NH2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZN:269:GLN:HG2	2:ZT:190:GLN:O	1.96	0.64
2:ZQ:331:ASP:HA	2:ZV:40:ALA:HB1	1.79	0.64
2:ZS:65:THR:HG21	2:Zd:4:SER:HG	1.62	0.64
2:ZV:77:ILE:HD12	2:ZV:96:ARG:HD3	1.78	0.64
1:r:246:ALA:HB2	10:m:220:MET:HE3	1.79	0.64
1:r:259:GLN:O	1:r:260:LEU:C	2.39	0.64
1:s:253:MET:HE3	10:n:224:ALA:HA	1.79	0.64
1:x:9:LYS:HZ1	10:m:72:ASP:CB	2.06	0.64
3:B:58:VAL:HG21	5:H:207:LEU:HD11	1.79	0.64
5:J:82:SER:O	5:J:83:ALA:C	2.41	0.64
1:0:2:ILE:CG2	10:p:211:VAL:C	2.68	0.64
1:1:73:ARG:NH1	10:q:202:MET:CE	2.59	0.64
1:7:254:LEU:O	1:7:258:THR:HG23	1.97	0.64
5:G:116:PHE:CE2	7:R:4:ARG:NH1	2.66	0.64
1:1:1:MET:HA	10:q:211:VAL:O	1.97	0.64
1:3:240:TYR:CD2	1:8:253:MET:HE3	2.32	0.64
2:Zc:2:SER:OG	2:Zc:3:PHE:N	2.21	0.64
1:u:66:LEU:CD1	10:p:59:ALA:C	2.71	0.64
1:u:253:MET:HE2	10:p:16:LEU:HD21	1.76	0.64
1:v:257:LEU:HA	10:q:231:MET:HE3	0.69	0.64
1:y:109:ASP:OD2	1:y:111:THR:OG1	2.15	0.64
5:F:52:THR:OG1	6:K:91:LYS:NZ	2.31	0.64
7:S:95:LEU:HD23	9:g:318:ASN:C	2.21	0.64
1:5:219:VAL:HG11	1:ZA:38:ARG:NH2	2.12	0.64
2:ZJ:65:THR:HG22	2:ZU:50:LEU:HD12	1.80	0.64
2:ZK:248:THR:OG1	2:ZK:257:ALA:N	2.31	0.64
2:ZR:71:ARG:NH1	2:ZR:74:ASP:OD1	2.31	0.64
2:ZX:71:ARG:HD3	2:ZX:74:ASP:OD1	1.98	0.64
2:ZY:159:ASN:ND2	2:ZY:161:THR:OG1	2.30	0.64
1:s:260:LEU:HD13	10:n:231:MET:SD	2.38	0.64
1:t:126:GLY:HA2	1:y:179:MET:HE3	1.79	0.64
1:v:242:ILE:HG12	10:q:26:LEU:CD2	2.27	0.64
1:x:1:MET:SD	10:m:29:ALA:HB1	2.37	0.64
8:a:22:ASN:OD1	10:q:54:ARG:NH1	2.30	0.64
8:a:109:SER:OG	10:q:240:ASN:OD1	2.16	0.64
1:1:239:ALA:HB2	1:7:1:MET:HE1	1.78	0.64
1:ZB:244:SER:CB	2:ZG:399:LEU:HD23	2.27	0.64
2:ZI:159:ASN:ND2	2:ZI:271:THR:O	2.31	0.64
2:ZU:382:TYR:CE1	2:ZZ:395:ILE:HG23	2.32	0.64
2:Za:146:ALA:HB2	2:Za:286:PRO:HD3	1.80	0.64
1:s:42:GLU:HG3	10:n:116:GLN:NE2	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:249:THR:HG23	10:n:224:ALA:HB2	1.79	0.64
8:W:22:ASN:OD1	10:m:4:ALA:HB2	1.98	0.64
1:0:89:THR:C	1:0:91:ASN:H	2.06	0.64
1:9:45:LEU:HD21	1:y:215:TYR:CE2	2.32	0.64
1:ZC:259:GLN:O	1:ZC:260:LEU:C	2.40	0.64
2:ZW:373:VAL:HG21	2:Zc:10:LEU:HD23	1.79	0.64
1:t:242:ILE:CG2	10:o:26:LEU:HD13	2.28	0.64
3:A:85:PRO:HD3	5:G:238:SER:OG	1.98	0.64
1:ZB:240:TYR:CE2	2:ZG:395:ILE:HG23	2.32	0.64
2:ZR:18:ASP:HB3	2:ZW:5:GLN:HE22	1.61	0.64
2:ZW:281:GLN:NE2	2:ZW:283:GLY:O	2.29	0.64
1:u:46:TYR:OH	10:p:34:PHE:HE1	1.80	0.64
1:v:50:ARG:NH2	10:q:58:THR:OG1	2.31	0.64
1:x:52:PRO:CG	8:W:80:PRO:CB	2.61	0.64
4:E:144:LEU:HB3	5:J:149:LEU:HD22	1.78	0.64
2:ZJ:2:SER:HB3	2:ZJ:392:GLN:HG3	1.78	0.64
2:ZT:87:ASP:HB3	2:ZT:114:MET:HE2	1.80	0.64
2:ZY:128:ILE:HD13	2:ZY:314:GLN:HB2	1.78	0.64
1:r:47:GLN:NE2	8:V:73:PRO:HB2	2.13	0.64
1:z:193:ILE:HD12	10:o:152:PRO:CD	2.28	0.64
3:A:17:ALA:HB2	5:G:195:ILE:CD1	2.28	0.64
5:J:139:LEU:HA	5:J:142:THR:HG22	1.78	0.64
1:ZC:106:MET:HE2	1:ZC:137:GLN:HE21	1.62	0.63
2:ZP:17:LEU:HD13	2:ZU:395:ILE:HD11	1.81	0.63
2:ZT:379:GLN:HE22	2:ZY:394:GLN:CD	2.04	0.63
1:r:260:LEU:HD13	10:m:231:MET:HE3	1.80	0.63
1:u:251:ASP:OD2	10:o:221:ILE:HG23	1.98	0.63
3:C:36:SER:HG	3:D:44:ILE:HG23	1.62	0.63
1:4:86:LEU:CD1	2:ZF:42:MET:CE	2.71	0.63
2:ZH:269:GLN:HB2	2:ZN:286:PRO:HG2	1.80	0.63
2:ZR:375:MET:HE1	2:ZW:388:THR:CG2	2.25	0.63
2:ZS:382:TYR:CE1	2:ZX:395:ILE:HG23	2.33	0.63
1:1:127:GLN:HA	1:1:140:ILE:O	1.98	0.63
1:u:78:GLU:OE1	10:p:106:GLN:NE2	2.31	0.63
1:ZD:27:ALA:HB1	2:ZI:52:VAL:CG2	2.28	0.63
2:ZJ:17:LEU:HD13	2:ZO:395:ILE:HD11	1.81	0.63
2:Zb:199:TYR:HB2	2:Zb:211:TYR:HB2	1.80	0.63
1:v:12:LEU:CD1	10:p:214:VAL:HG13	2.29	0.63
3:B:14:MET:HG3	3:C:59:PHE:CE1	2.33	0.63
3:C:36:SER:OG	3:D:44:ILE:CG2	2.35	0.63
2:ZQ:112:GLN:OE1	2:ZQ:112:GLN:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZX:27:SER:HB3	2:ZX:368:LEU:HD21	1.78	0.63
2:ZY:281:GLN:NE2	2:ZY:283:GLY:O	2.32	0.63
1:x:52:PRO:HD3	8:W:80:PRO:HB2	1.79	0.63
3:D:20:LEU:HD23	5:J:199:VAL:HG21	1.80	0.63
5:J:229:VAL:O	5:J:230:ASP:C	2.41	0.63
6:P:55:GLN:NE2	6:P:74:ASP:OD2	2.31	0.63
7:R:93:PRO:HB3	10:n:48:GLY:HA3	1.81	0.63
2:ZP:217:ASP:HB3	2:ZP:220:ALA:HB2	1.80	0.63
1:u:9:LYS:HE3	10:o:215:GLU:CG	2.28	0.63
1:y:187:ILE:HD12	1:y:193:ILE:HD11	1.79	0.63
3:A:84:LEU:HB3	3:A:85:PRO:CD	2.28	0.63
8:Z:47:VAL:O	9:k:313:PRO:CD	2.46	0.63
1:ZB:28:ASN:ND2	2:ZG:52:VAL:HB	2.13	0.63
2:ZI:374:ASN:O	2:ZI:377:VAL:N	2.31	0.63
1:y:257:LEU:HD22	10:n:214:VAL:HG22	1.79	0.63
3:C:36:SER:O	3:D:44:ILE:HD12	1.99	0.63
1:6:2:ILE:HD13	1:v:226:VAL:CG2	2.29	0.63
1:ZB:244:SER:CB	2:ZG:399:LEU:CD2	2.77	0.63
2:ZH:162:ASP:OD1	2:ZH:274:ASN:ND2	2.30	0.63
2:ZR:181:LYS:HD2	2:Zc:129:GLN:NE2	2.14	0.63
1:v:127:GLN:NE2	1:v:139:ALA:HB1	2.13	0.63
3:D:13:ALA:HB1	5:J:195:ILE:HD11	1.81	0.63
9:l:324:ASN:HD21	10:q:48:GLY:HA3	1.64	0.63
1:4:56:SER:CA	10:o:138:ALA:HB1	2.29	0.63
1:7:45:LEU:HD22	1:w:98:LYS:HG3	1.80	0.63
1:ZC:54:ALA:HB1	1:w:150:THR:CG2	2.25	0.63
2:ZH:78:SER:O	2:ZH:354:GLY:HA3	1.99	0.63
3:C:14:MET:CE	3:D:63:ILE:HD13	2.29	0.63
3:C:23:PRO:O	3:C:27:VAL:HG12	1.99	0.63
3:C:75:ASP:O	3:C:79:THR:HG23	1.99	0.63
7:S:22:ARG:NH2	7:S:108:GLN:OE1	2.31	0.63
1:7:22:ILE:HG21	1:7:233:MET:HG3	1.81	0.62
2:ZI:17:LEU:HD13	2:ZN:395:ILE:HD11	1.81	0.62
2:Zc:154:MET:HE1	2:Zc:198:VAL:HG21	1.79	0.62
1:u:45:LEU:HD12	10:p:175:ASP:O	1.98	0.62
1:y:37:GLN:NE2	1:y:77:THR:OG1	2.32	0.62
1:0:130:THR:HG23	1:0:132:GLY:H	1.63	0.62
1:4:231:VAL:HG11	1:ZA:9:LYS:HG3	1.81	0.62
1:9:16:GLN:NE2	1:9:20:ASP:OD1	2.32	0.62
2:ZK:167:LYS:NZ	2:ZK:168:THR:O	2.31	0.62
2:ZR:180:LYS:HB3	2:ZR:200:PHE:CD1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:55:GLN:C	10:o:184:GLU:OE2	2.43	0.62
3:B:73:LEU:HD21	5:H:225:LEU:HD13	1.80	0.62
7:T:32:ASN:HD22	8:Y:62:VAL:CG1	2.12	0.62
8:W:106:MET:HE1	10:n:234:ILE:HG23	1.81	0.62
8:Y:68:ILE:CD1	9:i:312:VAL:CG2	2.74	0.62
1:5:76:ALA:HB1	1:ZA:64:SER:O	2.00	0.62
1:ZC:70:THR:HG22	1:ZC:71:GLY:H	1.63	0.62
2:Zh:112:GLN:OE1	2:Zh:112:GLN:N	2.32	0.62
1:u:47:GLN:N	1:u:68:ILE:O	2.31	0.62
4:E:185:MET:HA	4:E:188:LEU:HD23	1.80	0.62
5:J:66:ARG:HB3	5:J:178:GLU:OE1	2.00	0.62
1:0:44:LEU:HD22	10:p:71:LEU:HD23	1.80	0.62
1:2:114:TYR:CG	1:2:178:PHE:HZ	2.17	0.62
1:ZA:70:THR:HG22	1:ZA:71:GLY:H	1.64	0.62
2:ZP:373:VAL:O	2:ZP:376:ILE:N	2.30	0.62
1:s:80:LEU:C	1:s:82:SER:H	2.07	0.62
1:u:50:ARG:HB2	9:i:322:PRO:HG3	1.79	0.62
8:Z:117:GLU:HB3	10:q:248:LEU:HB2	1.82	0.62
10:q:165:LYS:HB2	10:q:199:ILE:HD11	1.81	0.62
1:5:237:GLN:HE21	1:ZA:252:GLN:HB3	1.65	0.62
1:6:57:SER:CB	1:w:108:PRO:CG	2.73	0.62
1:ZA:50:ARG:HB2	1:ZA:66:LEU:H	1.62	0.62
1:ZA:231:VAL:HG11	2:ZG:7:VAL:HG22	1.80	0.62
2:ZP:146:ALA:HB2	2:ZP:286:PRO:HD3	1.82	0.62
2:Zb:84:ARG:NH1	2:Zb:134:PRO:HB2	2.13	0.62
2:Zc:396:LEU:O	2:Zc:400:VAL:HG23	2.00	0.62
1:r:258:THR:O	8:a:117:GLU:HG3	1.99	0.62
1:s:257:LEU:HA	10:n:231:MET:SD	2.40	0.62
1:w:12:LEU:HB2	10:q:214:VAL:HG11	1.81	0.62
1:x:104:GLN:NE2	1:x:203:GLU:OE2	2.33	0.62
1:4:253:MET:HE2	1:z:240:TYR:CD1	2.34	0.62
1:8:36:ARG:HH21	1:8:38:ARG:HH12	1.46	0.62
1:ZD:31:THR:HG22	2:ZI:39:PHE:C	2.23	0.62
2:ZG:185:THR:OG1	2:ZR:133:ASN:OD1	2.17	0.62
2:ZN:34:SER:HB3	2:ZN:366:VAL:HG22	1.82	0.62
2:ZX:380:ARG:NE	2:Zd:393:ASP:OD1	2.29	0.62
1:r:79:ARG:NH2	1:r:186:SER:OG	2.33	0.62
1:s:62:LEU:HD23	8:X:83:PRO:HG2	1.80	0.62
1:w:258:THR:HG21	10:q:228:GLU:CA	2.22	0.62
7:R:51:LYS:CB	7:R:55:ARG:CZ	2.66	0.62
1:1:193:ILE:CG2	10:q:152:PRO:CD	2.66	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:45:LEU:HD22	1:r:98:LYS:HD2	1.82	0.62
1:9:45:LEU:HD12	1:y:86:LEU:HD21	1.80	0.62
2:ZH:236:GLY:HA3	2:ZN:190:GLN:HE22	1.63	0.62
2:ZH:238:LEU:HD21	2:ZH:242:GLY:HA3	1.81	0.62
2:ZS:17:LEU:CD1	2:ZX:395:ILE:HD11	2.29	0.62
2:ZS:65:THR:HG21	2:Zd:4:SER:CB	2.30	0.62
2:Zb:97:ASN:OD1	2:Zb:99:GLN:NE2	2.32	0.62
1:u:48:THR:OG1	10:p:175:ASP:OD1	2.17	0.62
1:x:6:TRP:HB2	10:m:70:GLN:HB2	1.82	0.62
1:x:6:TRP:CE3	10:m:72:ASP:OD1	2.52	0.62
1:x:9:LYS:HZ3	10:m:72:ASP:CB	1.92	0.62
8:W:19:LYS:HE2	10:m:51:LEU:HD12	1.82	0.62
1:0:70:THR:CG2	10:p:71:LEU:HB2	2.30	0.62
1:2:49:ILE:HG21	1:2:66:LEU:HD23	1.82	0.62
1:3:218:TYR:CZ	1:ZE:73:ARG:HD2	2.34	0.62
1:ZA:34:PHE:HB3	1:ZA:222:SER:HB3	1.82	0.62
1:w:9:LYS:HZ1	10:q:215:GLU:CD	2.07	0.62
1:z:258:THR:CA	10:o:217:MET:CE	2.73	0.62
3:B:24:LEU:HD22	3:B:58:VAL:HG13	1.81	0.62
4:E:158:PRO:CG	4:E:162:ASN:HD21	2.09	0.62
1:2:238:ARG:O	1:2:241:GLU:N	2.32	0.62
1:7:167:PRO:HG2	2:ZI:338:GLN:OE1	1.99	0.62
1:8:36:ARG:HB3	1:8:224:VAL:HG22	1.81	0.62
1:ZD:52:PRO:HA	1:ZD:65:GLY:H	1.63	0.62
2:ZI:102:LEU:O	2:ZN:322:ASN:HB2	2.00	0.62
2:ZL:367:ASP:HB3	2:ZL:370:LYS:HG2	1.82	0.62
2:ZQ:382:TYR:CE1	2:ZV:395:ILE:HG23	2.34	0.62
2:ZW:322:ASN:HB3	2:ZW:340:SER:HA	1.82	0.62
2:Za:288:ASP:OD2	2:Zf:351:GLY:HA2	2.00	0.62
1:s:38:ARG:NH2	10:n:206:LEU:CD2	2.62	0.62
1:x:49:ILE:HD12	1:x:66:LEU:HD11	1.81	0.62
5:J:67:ILE:HD11	5:J:96:LEU:HB3	1.81	0.62
1:4:50:ARG:HD3	1:4:62:LEU:HD11	1.82	0.62
1:9:257:LEU:HD13	1:y:230:LEU:HD12	1.81	0.62
1:ZA:91:ASN:O	1:ZA:93:LYS:N	2.33	0.62
2:ZN:165:PRO:HG2	2:ZN:201:VAL:HG23	1.82	0.62
2:ZU:270:ASN:ND2	2:Za:191:GLY:O	2.33	0.62
1:s:256:LYS:HD2	1:s:259:GLN:HE21	1.63	0.62
1:x:44:LEU:HD23	10:m:202:MET:SD	2.39	0.62
4:E:105:GLN:NE2	5:F:216:THR:O	2.33	0.62
5:G:67:ILE:HD12	5:G:239:LEU:HD13	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:o:165:LYS:O	10:o:189:ARG:NH2	2.32	0.62
10:q:91:GLN:HB2	10:q:121:ILE:HD11	1.81	0.62
1:3:34:PHE:HB3	1:3:222:SER:HB3	1.83	0.61
1:ZB:163:GLY:O	1:ZB:164:GLN:C	2.43	0.61
2:ZG:297:ASP:OD2	2:ZG:314:GLN:NE2	2.31	0.61
2:Za:269:GLN:CD	2:Zg:286:PRO:HG3	2.23	0.61
1:r:259:GLN:OE1	10:q:243:ARG:CZ	2.48	0.61
1:v:142:ILE:HD13	1:v:149:ILE:HG12	1.82	0.61
3:D:70:LEU:O	3:D:74:LEU:HG	2.01	0.61
10:q:154:THR:O	10:q:156:ALA:N	2.33	0.61
1:3:121:GLN:HE22	1:8:182:THR:HG21	1.64	0.61
1:8:70:THR:HG22	1:8:71:GLY:H	1.65	0.61
1:9:73:ARG:HD2	1:y:218:TYR:HE2	1.64	0.61
1:ZA:240:TYR:OH	2:ZF:399:LEU:HD22	1.99	0.61
2:ZI:331:ASP:HA	2:ZN:40:ALA:HB1	1.82	0.61
2:ZL:375:MET:SD	2:ZQ:388:THR:HA	2.41	0.61
1:v:12:LEU:HD13	10:p:214:VAL:HG13	1.81	0.61
1:v:253:MET:HE3	10:q:16:LEU:HD23	1.69	0.61
1:x:3:SER:O	1:x:5:LEU:N	2.32	0.61
6:L:48:ARG:NH2	7:R:6:ASP:OD1	2.32	0.61
7:S:90:PRO:HG2	10:o:49:LEU:HB2	1.80	0.61
10:n:37:GLN:OE1	10:n:173:ARG:NH1	2.30	0.61
1:5:189:GLU:OE2	1:z:215:TYR:OH	2.11	0.61
1:6:85:ASN:HA	2:ZH:50:LEU:HD22	1.82	0.61
1:ZB:28:ASN:HD22	2:ZG:52:VAL:CG2	2.10	0.61
2:ZY:104:GLU:OE2	2:ZY:104:GLU:N	2.26	0.61
3:D:46:GLU:HB2	3:D:49:LEU:HD23	1.82	0.61
1:2:28:ASN:ND2	1:7:43:ASP:OD1	2.33	0.61
1:4:79:ARG:NH2	1:4:184:LEU:O	2.30	0.61
1:8:164:GLN:C	1:8:166:ALA:H	2.07	0.61
1:ZA:49:ILE:HG13	1:ZA:68:ILE:HD12	1.81	0.61
1:ZB:24:ASN:OD1	1:ZB:37:GLN:NE2	2.33	0.61
1:ZB:28:ASN:ND2	2:ZG:52:VAL:CB	2.64	0.61
1:ZB:240:TYR:CZ	2:ZG:399:LEU:HD11	2.35	0.61
1:ZE:85:ASN:HA	2:ZP:50:LEU:HD13	1.82	0.61
2:ZR:373:VAL:HG11	2:ZX:7:VAL:HG22	1.82	0.61
2:ZS:235:ASN:OD1	2:ZY:189:SER:OG	2.18	0.61
2:ZY:194:HIS:HB3	2:ZY:196:MET:HE3	1.82	0.61
1:r:9:LYS:HE3	8:a:100:GLY:CA	2.29	0.61
1:v:189:GLU:HB3	10:p:200:ARG:HH22	1.64	0.61
4:E:106:MET:SD	4:E:225:GLY:HA3	2.40	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:66:ARG:NE	5:G:178:GLU:OE1	2.33	0.61
8:X:3:LEU:HB3	8:X:7:PHE:HB3	1.82	0.61
1:5:237:GLN:NE2	1:ZA:252:GLN:HB3	2.16	0.61
1:ZB:175:LEU:HG	1:ZB:206:PRO:HG3	1.82	0.61
1:ZE:19:MET:HE3	2:ZJ:395:ILE:HD12	1.83	0.61
2:ZH:281:GLN:OE1	2:ZH:283:GLY:N	2.31	0.61
2:ZM:390:LYS:HB2	2:ZR:402:LEU:HD22	1.82	0.61
2:ZZ:184:VAL:HG13	2:ZZ:196:MET:HB2	1.83	0.61
7:T:90:PRO:HG2	10:p:49:LEU:HB2	1.81	0.61
10:m:181:LEU:HD21	10:m:193:LEU:HD11	1.81	0.61
1:0:108:PRO:HG2	1:u:153:ARG:NH2	2.15	0.61
1:4:45:LEU:HD22	1:t:98:LYS:HG3	1.83	0.61
1:8:45:LEU:HD13	1:x:83:GLN:HG2	1.81	0.61
2:ZH:270:ASN:HB2	2:ZN:191:GLY:C	2.25	0.61
2:ZQ:307:GLU:OE1	2:Zb:92:VAL:HG22	2.01	0.61
2:ZQ:379:GLN:HE21	2:ZV:394:GLN:HE22	1.48	0.61
2:ZX:114:MET:HE1	2:ZX:333:VAL:HG21	1.82	0.61
1:r:143:PRO:HG2	1:r:161:GLN:HE22	1.65	0.61
1:v:62:LEU:HG	8:a:84:LEU:HD11	1.83	0.61
1:w:251:ASP:OD2	10:q:221:ILE:HG23	2.01	0.61
1:z:48:THR:CG2	10:o:84:GLN:OE1	2.47	0.61
7:T:103:ASP:OD1	8:Z:112:TYR:OH	2.11	0.61
1:1:197:SER:HA	1:w:124:GLN:HB3	1.82	0.61
1:2:42:GLU:HB3	1:2:75:VAL:HG23	1.81	0.61
1:9:259:GLN:O	1:9:260:LEU:C	2.44	0.61
2:ZO:160:SER:OG	2:ZU:192:ASN:OD1	2.18	0.61
2:ZO:270:ASN:N	2:ZU:190:GLN:O	2.33	0.61
2:ZR:146:ALA:HB2	2:ZR:286:PRO:HD3	1.83	0.61
2:ZZ:269:GLN:HG2	2:Zf:286:PRO:CG	2.30	0.61
1:t:66:LEU:HD23	10:o:59:ALA:C	2.25	0.61
5:H:106:ASP:OD2	6:M:31:THR:N	2.33	0.61
7:R:51:LYS:NZ	7:R:84:ASP:OD1	2.34	0.61
8:Y:68:ILE:HD11	9:i:312:VAL:HG22	1.83	0.61
10:p:146:LEU:HD13	10:p:155:VAL:HG22	1.83	0.61
1:3:58:GLU:N	10:n:140:ASP:OD2	2.34	0.61
1:4:51:GLN:NE2	10:o:146:LEU:HD12	2.16	0.61
1:4:254:LEU:O	1:4:258:THR:HG23	2.01	0.61
1:6:56:SER:CB	10:q:138:ALA:HB1	2.29	0.61
1:8:56:SER:OG	1:s:153:ARG:HG3	2.00	0.61
1:ZD:76:ALA:HA	2:ZI:47:LYS:CE	2.30	0.61
1:s:178:PHE:CE2	1:s:184:LEU:HD21	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:6:TRP:HE1	10:n:70:GLN:CG	2.12	0.61
3:A:56:VAL:O	3:A:60:ILE:HG12	2.01	0.61
3:C:21:ALA:HB2	5:I:199:VAL:HG22	1.81	0.61
3:D:14:MET:CE	4:E:229:MET:SD	2.89	0.61
1:0:226:VAL:HG21	1:ZB:1:MET:HB2	1.83	0.61
1:3:22:ILE:HG21	1:3:233:MET:HG3	1.83	0.61
1:9:20:ASP:OD1	1:ZE:4:SER:OG	2.18	0.61
1:ZB:248:SER:CB	2:ZG:402:LEU:HD22	2.29	0.61
2:ZO:65:THR:HG21	2:ZZ:4:SER:OG	2.00	0.61
2:ZQ:188:ASP:HA	2:ZQ:257:ALA:HB2	1.83	0.61
2:ZS:319:ASN:ND2	2:ZS:352:ASN:OD1	2.33	0.61
2:ZX:80:ASN:OD1	2:ZX:81:GLY:N	2.34	0.61
1:r:73:ARG:HB2	8:V:78:TYR:CE2	2.36	0.61
1:r:80:LEU:CD1	10:m:76:ARG:CD	2.78	0.61
1:r:98:LYS:HE2	1:x:187:ILE:O	2.01	0.61
1:y:1:MET:HB3	10:n:211:VAL:O	1.99	0.61
4:E:178:LEU:HD12	4:E:182:ASN:HD21	1.65	0.61
1:5:70:THR:HG22	1:5:71:GLY:H	1.65	0.61
2:ZH:11:ASN:O	2:ZH:15:THR:HG23	2.00	0.61
2:ZT:106:ARG:HH21	2:ZT:139:ILE:HG22	1.64	0.61
2:Zg:114:MET:HA	2:Zg:114:MET:HE3	1.82	0.61
1:y:52:PRO:HG2	8:X:89:GLY:CA	2.30	0.61
7:Q:22:ARG:HH22	8:W:3:LEU:HD21	1.66	0.61
8:a:29:ALA:O	10:q:57:VAL:HG11	2.01	0.61
10:q:151:PRO:HB2	10:q:154:THR:HG23	1.83	0.61
1:0:6:TRP:HZ2	1:u:235:GLN:NE2	1.98	0.60
2:ZF:234:GLU:HB3	2:ZL:255:THR:HB	1.83	0.60
2:ZL:83:PHE:HB2	2:ZL:95:SER:O	2.01	0.60
2:ZT:187:TYR:HE2	2:ZT:285:LYS:HB2	1.65	0.60
2:ZU:294:ILE:O	2:ZU:358:ASN:ND2	2.30	0.60
1:y:9:LYS:HZ3	10:n:72:ASP:CB	2.09	0.60
4:E:114:VAL:HG12	5:G:213:PRO:HB3	1.81	0.60
6:L:48:ARG:NH2	7:R:6:ASP:CG	2.59	0.60
1:6:257:LEU:HD21	1:v:227:ALA:HA	1.83	0.60
2:ZF:102:LEU:O	2:ZK:322:ASN:ND2	2.34	0.60
2:ZF:107:ASN:ND2	2:ZF:138:THR:OG1	2.34	0.60
2:ZJ:195:ASP:OD2	2:ZJ:216:SER:OG	2.17	0.60
1:s:258:THR:CG2	10:m:229:MET:HG2	2.21	0.60
1:u:38:ARG:HH12	10:p:74:THR:CG2	1.98	0.60
1:u:66:LEU:HD11	10:p:59:ALA:HB3	1.83	0.60
1:y:257:LEU:HD21	10:n:214:VAL:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:14:MET:HE2	4:E:229:MET:SD	2.41	0.60
6:K:86:ILE:HD13	6:P:98:GLU:HG3	1.81	0.60
1:ZD:208:LEU:O	1:ZD:210:GLY:N	2.35	0.60
2:ZK:104:GLU:HG2	2:ZP:338:GLN:O	2.02	0.60
2:ZK:112:GLN:N	2:ZK:112:GLN:OE1	2.33	0.60
2:ZS:295:ASN:ND2	2:ZS:299:THR:OG1	2.34	0.60
2:ZZ:394:GLN:O	2:ZZ:398:THR:HG23	2.01	0.60
2:Zc:42:MET:HG2	2:Zc:53:LYS:HE3	1.83	0.60
1:s:44:LEU:CD1	8:W:78:TYR:HB2	2.29	0.60
1:z:22:ILE:HD11	1:z:232:ASN:HB3	1.81	0.60
5:F:162:PRO:HD2	5:F:163:GLU:N	2.14	0.60
6:O:77:LYS:CE	7:U:13:GLN:HE22	2.08	0.60
1:6:57:SER:CB	1:w:108:PRO:HB3	2.06	0.60
1:ZC:218:TYR:OH	2:ZN:53:LYS:CD	2.49	0.60
1:w:258:THR:HG22	10:q:228:GLU:HB3	1.76	0.60
8:Z:12:SER:OG	8:Z:62:VAL:O	2.20	0.60
10:o:249:SER:O	10:o:250:MET:C	2.45	0.60
1:0:187:ILE:O	1:u:98:LYS:NZ	2.31	0.60
1:2:56:SER:CA	10:m:138:ALA:CB	2.79	0.60
1:ZE:137:GLN:HA	1:ZE:139:ALA:H	1.67	0.60
2:ZF:349:GLY:O	2:ZL:89:ASN:ND2	2.35	0.60
2:ZO:71:ARG:HB2	2:ZO:74:ASP:OD1	2.02	0.60
2:ZR:183:THR:OG1	2:Zc:132:ALA:HA	2.02	0.60
2:ZS:18:ASP:OD1	2:ZX:5:GLN:NE2	2.34	0.60
2:ZV:269:GLN:HG3	2:Zb:286:PRO:HG2	1.82	0.60
2:Zf:159:ASN:ND2	2:Zf:161:THR:OG1	2.34	0.60
1:u:245:LYS:HG2	10:p:217:MET:SD	2.40	0.60
3:A:54:LYS:HD2	5:G:207:LEU:HD23	1.82	0.60
8:Z:68:ILE:HD11	9:k:312:VAL:HG21	1.84	0.60
1:2:83:GLN:HG2	1:ZD:45:LEU:CD2	2.31	0.60
1:6:242:ILE:CD1	1:ZC:1:MET:HE1	2.32	0.60
2:ZJ:217:ASP:HB3	2:ZJ:220:ALA:HB2	1.84	0.60
2:ZN:65:THR:HG21	2:ZY:4:SER:HB2	1.83	0.60
2:ZR:380:ARG:HD2	2:ZX:396:LEU:HB3	1.83	0.60
2:ZU:150:THR:H	2:ZU:282:ASN:HD21	1.48	0.60
1:s:45:LEU:HD23	8:W:76:LEU:HD12	1.83	0.60
1:s:242:ILE:HD13	10:n:217:MET:HE3	1.84	0.60
1:y:86:LEU:HD12	1:y:218:TYR:HB3	1.84	0.60
1:0:257:LEU:HD21	10:p:214:VAL:HA	1.83	0.60
2:ZO:146:ALA:HB2	2:ZO:286:PRO:HD3	1.83	0.60
2:ZV:181:LYS:CD	2:Zg:129:GLN:NE2	2.58	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:22:ILE:HG21	1:t:233:MET:HG2	1.84	0.60
1:x:89:THR:C	1:x:91:ASN:H	2.10	0.60
1:1:100:GLN:OE1	1:1:100:GLN:N	2.30	0.60
1:3:28:ASN:ND2	1:8:43:ASP:OD1	2.35	0.60
1:ZE:85:ASN:HA	2:ZP:50:LEU:CD1	2.32	0.60
2:ZR:181:LYS:CD	2:Zc:129:GLN:NE2	2.64	0.60
2:ZV:196:MET:HA	2:ZV:196:MET:HE3	1.83	0.60
2:Zc:382:TYR:CD1	2:Zh:395:ILE:HD11	2.36	0.60
5:I:83:ALA:HB3	5:I:84:PRO:HD3	1.84	0.60
5:J:105:ILE:HD13	6:O:34:PHE:HZ	1.67	0.60
8:W:27:ASN:OD1	8:W:42:TYR:OH	2.19	0.60
8:Y:109:SER:O	8:Y:113:GLN:HG3	2.02	0.60
1:ZA:91:ASN:HB2	1:ZA:94:ASP:OD2	2.02	0.60
2:ZW:382:TYR:CZ	2:Zb:395:ILE:HG23	2.37	0.60
1:w:73:ARG:HD3	8:a:78:TYR:CE1	2.37	0.60
3:B:74:LEU:HD22	5:H:229:VAL:CG1	2.32	0.60
5:I:232:TRP:O	5:I:236:MET:HG2	2.02	0.60
5:J:184:GLN:O	5:J:188:THR:HG23	2.02	0.60
2:ZO:170:PHE:HE2	2:ZO:178:TYR:HB3	1.65	0.60
2:ZO:248:THR:OG1	2:ZO:257:ALA:N	2.34	0.60
2:ZX:242:GLY:O	2:ZX:263:PHE:N	2.30	0.60
1:s:253:MET:HE3	10:n:224:ALA:N	2.15	0.60
1:t:189:GLU:HG2	1:y:42:GLU:CD	2.27	0.60
3:C:36:SER:O	3:D:44:ILE:CD1	2.50	0.60
6:K:79:SER:HB2	6:P:91:LYS:NZ	2.16	0.60
8:W:103:VAL:HG21	10:n:9:MET:CG	2.31	0.60
8:Y:28:LEU:HD11	10:o:229:MET:SD	2.42	0.60
10:n:91:GLN:HB2	10:n:121:ILE:HD11	1.83	0.60
1:9:73:ARG:CD	1:y:218:TYR:CE2	2.85	0.59
2:ZF:104:GLU:CD	2:ZK:341:GLY:HA2	2.27	0.59
2:ZH:206:ASN:ND2	2:ZN:253:GLY:HA3	2.16	0.59
2:ZJ:18:ASP:HB3	2:ZO:5:GLN:HE22	1.67	0.59
2:ZM:156:ILE:HB	2:ZM:276:ILE:HG23	1.84	0.59
2:ZS:289:LEU:HA	2:ZS:304:TYR:HA	1.83	0.59
2:ZY:330:GLY:HA2	2:Zd:41:ASP:OD1	2.02	0.59
2:Za:24:ILE:O	2:Za:27:SER:OG	2.20	0.59
2:Zc:382:TYR:CG	2:Zh:395:ILE:HD11	2.37	0.59
2:Zg:385:ASN:O	2:Zg:388:THR:N	2.33	0.59
1:t:90:ASN:O	1:t:91:ASN:C	2.45	0.59
1:x:3:SER:O	1:x:6:TRP:N	2.35	0.59
3:D:7:MET:HE2	4:E:233:MET:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:89:GLY:C	5:J:143:ARG:HE	2.10	0.59
8:V:112:TYR:CD1	8:a:125:MET:HG3	2.37	0.59
1:1:6:TRP:CD1	10:q:70:GLN:HB2	2.37	0.59
1:2:40:VAL:O	1:2:75:VAL:N	2.33	0.59
1:5:208:LEU:O	1:5:210:GLY:N	2.34	0.59
1:ZB:40:VAL:HG23	1:ZB:75:VAL:HB	1.84	0.59
1:ZC:122:VAL:O	2:ZH:322:ASN:CG	2.44	0.59
2:ZR:157:ASN:ND2	2:ZX:143:LEU:HD13	2.17	0.59
2:Ze:233:ASN:HD21	2:Ze:237:ILE:HB	1.67	0.59
1:v:180:ASN:ND2	10:q:107:VAL:O	2.34	0.59
3:A:74:LEU:HD13	3:A:78:ARG:NH2	2.13	0.59
5:F:66:ARG:NH2	5:F:243:PHE:O	2.36	0.59
5:G:48:ILE:HD12	7:R:134:LEU:HD23	1.85	0.59
5:J:116:PHE:CZ	7:U:4:ARG:NH1	2.68	0.59
7:S:114:LEU:HD21	8:Y:126:MET:CE	2.32	0.59
8:Z:116:ILE:HD11	10:p:244:ALA:HB2	1.84	0.59
1:4:238:ARG:NE	1:ZA:251:ASP:OD2	2.33	0.59
1:ZD:24:ASN:ND2	2:ZI:49:GLY:CA	2.65	0.59
1:ZE:31:THR:HG22	2:ZJ:39:PHE:HB3	1.83	0.59
2:ZJ:382:TYR:CZ	2:ZO:395:ILE:HG23	2.37	0.59
2:ZO:268:GLN:HE22	2:ZU:190:GLN:HE22	1.49	0.59
2:ZT:42:MET:HE3	2:ZT:53:LYS:HB3	1.84	0.59
2:ZV:178:TYR:HA	2:ZV:201:VAL:HG22	1.83	0.59
2:Zc:71:ARG:NH1	2:Zc:74:ASP:OD1	2.35	0.59
1:t:241:GLU:OE1	1:z:258:THR:OG1	2.19	0.59
4:E:114:VAL:CG2	5:I:211:MET:HE1	2.28	0.59
7:T:123:LEU:HD23	8:Y:132:LEU:HD11	1.84	0.59
8:W:21:LEU:HD21	10:m:237:VAL:HG22	1.84	0.59
1:1:52:PRO:CG	8:a:80:PRO:HB3	2.32	0.59
1:ZC:10:THR:HG21	1:ZC:71:GLY:HA3	1.83	0.59
1:r:47:GLN:HE22	8:V:73:PRO:HB2	1.65	0.59
1:t:38:ARG:HH21	10:o:104:ASN:HD21	1.49	0.59
3:D:51:PHE:HB3	5:I:205:MET:HE3	1.84	0.59
6:O:75:MET:HE1	7:T:122:VAL:HG22	1.84	0.59
8:V:20:ARG:HD3	8:V:108:ALA:HB2	1.84	0.59
8:W:106:MET:HE1	10:n:234:ILE:CG2	2.31	0.59
8:a:19:LYS:HD3	10:q:51:LEU:HD11	1.84	0.59
10:p:174:SER:OG	10:p:176:ASP:OD2	2.16	0.59
10:q:76:ARG:NH2	10:q:105:ILE:O	2.35	0.59
1:5:35:LYS:NZ	1:5:220:GLU:OE2	2.35	0.59
1:9:73:ARG:CD	1:y:218:TYR:HE2	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZT:314:GLN:NE2	2:ZT:347:THR:OG1	2.35	0.59
1:t:50:ARG:HD3	9:g:322:PRO:HD3	1.84	0.59
1:v:62:LEU:HD23	8:a:83:PRO:CG	2.32	0.59
1:0:257:LEU:HD22	10:p:214:VAL:HG22	1.85	0.59
1:5:16:GLN:NE2	1:ZA:2:ILE:HG13	2.17	0.59
1:5:115:THR:HB	1:5:191:LEU:HD23	1.85	0.59
1:ZA:76:ALA:CB	2:ZF:47:LYS:HD3	2.33	0.59
1:ZC:185:GLU:OE1	2:ZH:46:SER:HB2	2.03	0.59
2:ZF:346:GLY:HA3	2:ZF:353:PHE:CE2	2.37	0.59
4:E:188:LEU:HG	4:E:189:PRO:HD3	1.84	0.59
5:G:180:LYS:NZ	5:H:230:ASP:OD1	2.27	0.59
10:p:75:SER:O	10:p:76:ARG:C	2.46	0.59
1:1:178:PHE:HE1	1:1:201:PRO:HB3	1.67	0.59
1:3:88:GLN:HB2	1:3:218:TYR:CE2	2.36	0.59
2:ZL:144:MET:SD	2:ZL:310:GLN:NE2	2.75	0.59
2:ZN:382:TYR:CE1	2:ZS:395:ILE:HG23	2.37	0.59
2:ZW:178:TYR:HA	2:ZW:201:VAL:HG22	1.83	0.59
2:Zc:150:THR:OG1	2:Zc:282:ASN:ND2	2.35	0.59
1:s:35:LYS:HD2	1:s:81:HIS:HA	1.84	0.59
1:v:182:THR:HG21	10:q:106:GLN:HE22	1.68	0.59
1:y:73:ARG:NE	10:n:202:MET:HE2	2.15	0.59
3:D:78:ARG:HG3	5:J:234:LEU:HD11	1.83	0.59
5:H:83:ALA:HB3	5:H:84:PRO:HD3	1.84	0.59
5:I:48:ILE:HD11	6:O:89:ARG:HH12	1.68	0.59
7:T:90:PRO:HG2	10:p:49:LEU:HB3	1.83	0.59
7:U:32:ASN:ND2	8:Z:60:GLY:O	2.35	0.59
8:V:50:GLN:HG3	8:V:65:ALA:HB2	1.85	0.59
10:q:146:LEU:O	10:q:147:ASN:C	2.46	0.59
1:0:83:GLN:HG2	1:ZB:45:LEU:HD13	1.84	0.59
1:1:99:GLY:O	1:1:116:ARG:NH2	2.29	0.59
1:4:40:VAL:O	1:4:75:VAL:N	2.30	0.59
1:6:194:GLU:O	1:v:165:ALA:HB1	2.02	0.59
1:9:45:LEU:HD22	1:y:98:LYS:HG3	1.85	0.59
1:9:231:VAL:HG11	2:ZF:7:VAL:HG22	1.85	0.59
1:ZD:77:THR:H	2:ZI:47:LYS:HD3	1.67	0.59
1:ZE:231:VAL:HG11	2:ZK:7:VAL:HG22	1.84	0.59
2:ZQ:6:ALA:HB1	2:ZQ:389:ILE:HG12	1.85	0.59
2:ZT:18:ASP:HB3	2:ZY:5:GLN:NE2	2.17	0.59
2:ZX:269:GLN:OE1	2:Zd:286:PRO:CG	2.51	0.59
1:r:197:SER:CA	10:m:109:PRO:HG3	2.33	0.59
6:K:73:ALA:HB1	6:K:77:LYS:NZ	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:M:61:LEU:HD22	7:R:50:LYS:HE2	1.83	0.59
7:Q:46:ALA:O	7:Q:50:LYS:HG3	2.02	0.59
2:ZS:33:LYS:O	2:ZS:59:GLN:NE2	2.36	0.59
1:v:12:LEU:CB	10:p:214:VAL:HG11	2.32	0.59
1:x:52:PRO:HD3	8:W:80:PRO:CB	2.32	0.59
3:A:35:ILE:HD11	3:A:53:PRO:HB2	1.85	0.59
5:G:116:PHE:CD2	7:R:4:ARG:NH2	2.71	0.59
1:2:85:ASN:O	1:2:221:THR:OG1	2.21	0.59
1:3:248:SER:O	1:3:252:GLN:HG2	2.02	0.59
2:ZS:105:ASN:HB2	2:ZS:107:ASN:HD21	1.68	0.59
2:ZW:208:TRP:NE1	2:ZW:268:GLN:OE1	2.35	0.59
2:ZX:178:TYR:HA	2:ZX:201:VAL:HG22	1.85	0.59
2:Za:2:SER:OG	2:Za:3:PHE:N	2.34	0.59
2:Zh:217:ASP:HB3	2:Zh:220:ALA:HB2	1.85	0.59
1:t:68:ILE:CG2	10:o:21:VAL:HG23	2.27	0.59
1:t:180:ASN:ND2	10:o:107:VAL:O	2.36	0.59
1:v:129:VAL:HG12	1:v:135:GLN:HA	1.84	0.59
1:z:115:THR:HB	1:z:191:LEU:HD23	1.85	0.59
6:M:61:LEU:CD1	7:R:50:LYS:NZ	2.66	0.59
7:Q:127:LEU:O	7:Q:131:MET:HG2	2.03	0.59
9:f:324:ASN:HB3	10:n:48:GLY:HA2	1.84	0.59
1:4:85:ASN:OD1	2:ZF:50:LEU:HD23	2.02	0.58
1:9:238:ARG:NH2	2:ZF:397:ASN:HB2	2.18	0.58
2:ZY:111:MET:HE1	2:Zd:58:THR:OG1	2.03	0.58
2:ZZ:205:ASP:OD1	2:Zf:252:ASN:HA	2.03	0.58
1:s:242:ILE:CG2	10:n:26:LEU:CD2	2.76	0.58
10:p:76:ARG:HG2	10:p:78:LEU:HB2	1.85	0.58
1:3:238:ARG:NE	1:9:251:ASP:OD2	2.35	0.58
1:7:238:ARG:HG2	1:ZD:254:LEU:HD13	1.84	0.58
1:ZB:231:VAL:HG11	2:ZH:7:VAL:HG22	1.84	0.58
2:ZI:195:ASP:OD2	2:ZI:216:SER:OG	2.22	0.58
2:ZT:248:THR:OG1	2:ZT:257:ALA:N	2.37	0.58
1:u:253:MET:O	10:p:227:PHE:CE2	2.57	0.58
1:v:62:LEU:CD2	8:a:83:PRO:CD	2.77	0.58
1:ZA:28:ASN:OD1	2:ZF:52:VAL:HB	2.03	0.58
1:ZA:233:MET:SD	2:ZF:388:THR:CB	2.92	0.58
1:ZD:237:GLN:O	1:ZD:241:GLU:HG2	2.02	0.58
1:ZE:85:ASN:OD1	2:ZP:50:LEU:HD21	2.04	0.58
2:ZI:99:GLN:HG3	2:ZI:361:LEU:HD21	1.84	0.58
2:ZN:373:VAL:HG11	2:ZT:7:VAL:HG22	1.84	0.58
2:ZQ:22:ASN:OD1	2:ZQ:26:ASN:ND2	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZX:146:ALA:HB2	2:ZX:286:PRO:HD3	1.85	0.58
2:ZZ:309:GLU:N	2:ZZ:309:GLU:OE2	2.34	0.58
1:u:260:LEU:HD11	10:p:234:ILE:HG22	1.84	0.58
1:v:66:LEU:HD12	10:q:61:THR:HG23	1.84	0.58
1:x:6:TRP:CD1	10:m:70:GLN:HB2	2.39	0.58
1:x:22:ILE:HG21	1:x:233:MET:HG3	1.84	0.58
3:C:52:ILE:O	3:C:56:VAL:HG22	2.02	0.58
7:S:120:LEU:HD11	8:X:129:THR:OG1	2.03	0.58
8:V:103:VAL:HG21	10:m:9:MET:HG3	1.84	0.58
10:m:96:ALA:HB3	10:m:180:ARG:HH21	1.68	0.58
1:3:56:SER:CA	10:n:138:ALA:HB1	2.34	0.58
1:4:64:SER:O	1:4:64:SER:OG	2.19	0.58
1:ZD:115:THR:HB	1:ZD:191:LEU:HD23	1.84	0.58
1:ZE:218:TYR:OH	2:ZP:53:LYS:HD2	2.02	0.58
2:ZG:331:ASP:HA	2:ZL:40:ALA:HB1	1.83	0.58
2:ZH:162:ASP:O	2:ZH:202:LYS:NZ	2.33	0.58
2:Zc:281:GLN:NE2	2:Zc:283:GLY:O	2.36	0.58
2:Ze:60:ASP:O	2:Ze:365:ASN:ND2	2.36	0.58
2:Zf:101:LYS:HD3	2:Zf:102:LEU:H	1.67	0.58
1:r:260:LEU:HD21	8:V:106:MET:HE1	1.84	0.58
1:t:63:PRO:HG2	10:o:62:PRO:CB	2.33	0.58
1:u:6:TRP:O	1:u:10:THR:HG23	2.04	0.58
10:o:170:GLU:OE1	10:o:189:ARG:NH1	2.36	0.58
10:p:76:ARG:HB3	10:p:79:ASP:OD2	2.04	0.58
1:2:208:LEU:O	1:x:162:GLN:NE2	2.36	0.58
1:6:86:LEU:HD12	2:ZH:42:MET:HE1	1.75	0.58
2:ZI:375:MET:SD	2:ZN:388:THR:OG1	2.51	0.58
2:ZL:270:ASN:HB2	2:ZR:190:GLN:O	2.02	0.58
2:ZR:183:THR:HG21	2:Zc:132:ALA:HA	1.84	0.58
2:ZT:180:LYS:HD3	2:ZT:274:ASN:HB3	1.85	0.58
1:r:93:LYS:HE3	1:r:149:ILE:HG21	1.84	0.58
1:t:50:ARG:CD	9:h:328:ILE:HD13	2.33	0.58
6:K:69:ASN:HD21	7:Q:20:ALA:HB2	1.68	0.58
8:Z:113:GLN:CD	10:q:245:ASN:HD22	2.07	0.58
8:a:30:ASN:HD21	10:q:55:THR:CG2	2.16	0.58
1:1:49:ILE:HB	1:1:66:LEU:HD23	1.85	0.58
1:ZD:37:GLN:CD	2:ZI:43:PHE:HE2	2.12	0.58
2:ZK:75:VAL:HG21	2:ZK:356:LEU:HD23	1.85	0.58
2:ZK:165:PRO:HG2	2:ZK:201:VAL:HG13	1.84	0.58
2:ZU:97:ASN:HB2	2:ZU:332:ASN:HD22	1.69	0.58
2:ZW:103:ASP:HA	2:Zb:322:ASN:HD22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:210:GLY:HA2	10:m:149:GLY:HA3	1.86	0.58
1:u:260:LEU:HD23	8:Y:106:MET:SD	2.43	0.58
3:B:51:PHE:CZ	3:B:55:ILE:HD11	2.38	0.58
7:S:42:ASP:OD1	7:S:88:ARG:NH2	2.36	0.58
1:1:72:VAL:HB	1:w:28:ASN:ND2	2.18	0.58
1:2:86:LEU:HD12	1:ZD:44:LEU:HD22	1.85	0.58
1:3:49:ILE:HG21	1:3:66:LEU:HD23	1.86	0.58
1:6:35:LYS:HB2	1:6:79:ARG:HD2	1.85	0.58
1:ZA:76:ALA:HA	2:ZF:47:LYS:HD3	1.85	0.58
1:ZD:165:ALA:O	1:ZD:166:ALA:C	2.47	0.58
2:ZQ:22:ASN:N	2:ZV:5:GLN:HE21	2.01	0.58
2:ZZ:71:ARG:HG2	2:ZZ:73:LEU:H	1.68	0.58
2:Zb:107:ASN:ND2	2:Zb:138:THR:OG1	2.37	0.58
1:z:49:ILE:HD12	1:z:66:LEU:HD11	1.86	0.58
3:A:48:THR:HG21	5:F:208:GLY:CA	2.34	0.58
8:W:94:PRO:HB2	8:W:96:VAL:HG23	1.86	0.58
8:X:113:GLN:NE2	10:n:239:GLU:OE1	2.36	0.58
10:o:82:LEU:HD13	10:o:201:ILE:HG22	1.85	0.58
1:1:52:PRO:HG2	8:a:89:GLY:HA3	1.85	0.58
1:ZB:147:LEU:CD2	2:ZG:352:ASN:OD1	2.51	0.58
2:ZG:263:PHE:O	2:ZG:266:SER:OG	2.18	0.58
2:ZS:228:THR:HB	2:ZS:244:VAL:HG11	1.86	0.58
1:r:246:ALA:HA	10:m:220:MET:CE	2.28	0.58
1:s:179:MET:SD	10:n:131:GLU:C	2.86	0.58
1:s:253:MET:CE	10:n:224:ALA:CA	2.81	0.58
1:t:7:ILE:HG21	10:o:24:SER:N	2.19	0.58
1:t:205:THR:HG22	1:t:208:LEU:HD21	1.86	0.58
1:2:98:LYS:HB3	1:2:213:LEU:H	1.68	0.58
1:3:180:ASN:O	1:3:181:ASP:C	2.43	0.58
1:4:124:GLN:HB2	1:9:199:GLY:HA2	1.85	0.58
1:5:240:TYR:CE1	1:ZA:257:LEU:HB2	2.39	0.58
1:6:180:ASN:OD1	1:6:183:GLY:N	2.35	0.58
1:8:98:LYS:NZ	1:ZE:187:ILE:O	2.36	0.58
2:ZL:375:MET:HE1	2:ZQ:388:THR:OG1	2.03	0.58
2:ZW:285:LYS:O	2:ZW:306:ASN:ND2	2.29	0.58
2:ZW:331:ASP:CA	2:Zb:40:ALA:HB1	2.24	0.58
2:ZZ:69:THR:OG1	2:ZZ:74:ASP:OD2	2.21	0.58
1:s:73:ARG:HD3	8:W:78:TYR:CD2	2.25	0.58
1:t:153:ARG:NH2	1:z:108:PRO:HG2	2.18	0.58
1:x:89:THR:C	1:x:91:ASN:N	2.62	0.58
5:J:83:ALA:O	5:J:84:PRO:C	2.46	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:116:PHE:CE1	7:U:4:ARG:NH1	2.68	0.58
7:R:114:LEU:HD21	8:X:126:MET:SD	2.43	0.58
10:p:26:LEU:HD21	10:p:216:ALA:HB1	1.86	0.58
2:ZI:212:THR:HG21	2:ZI:246:ILE:HD13	1.86	0.58
2:ZK:150:THR:OG1	2:ZK:282:ASN:ND2	2.36	0.58
2:ZL:18:ASP:HB3	2:ZQ:5:GLN:HE22	1.69	0.58
2:ZL:269:GLN:NE2	2:ZR:190:GLN:HA	2.18	0.58
2:ZO:211:TYR:CE2	2:ZO:226:ALA:HA	2.38	0.58
2:ZU:157:ASN:ND2	2:Za:143:LEU:HD22	2.19	0.58
2:ZV:380:ARG:CZ	2:Zb:393:ASP:OD2	2.52	0.58
2:ZW:181:LYS:HZ2	2:Zh:129:GLN:HE21	1.52	0.58
2:Ze:34:SER:HB3	2:Ze:366:VAL:HG12	1.85	0.58
1:s:260:LEU:CD1	10:n:231:MET:SD	2.92	0.58
4:E:167:ASN:HD21	4:E:174:ARG:HH12	1.52	0.58
8:Y:47:VAL:O	9:i:313:PRO:CD	2.51	0.58
1:ZB:7:ILE:HG23	1:ZB:71:GLY:HA2	1.86	0.57
1:ZB:19:MET:HE1	1:ZB:233:MET:HG3	1.86	0.57
1:ZD:37:GLN:CD	2:ZI:43:PHE:CE2	2.82	0.57
2:ZP:178:TYR:HA	2:ZP:201:VAL:HG12	1.85	0.57
8:Z:113:GLN:HB2	10:p:243:ARG:NH2	2.18	0.57
10:o:91:GLN:HB2	10:o:121:ILE:HD11	1.85	0.57
1:8:24:ASN:ND2	1:ZD:70:THR:O	2.36	0.57
1:ZC:208:LEU:O	1:ZC:210:GLY:N	2.37	0.57
2:ZL:27:SER:HB3	2:ZQ:381:ASN:OD1	2.05	0.57
2:ZV:369:SER:HA	2:Zg:399:LEU:HD13	1.86	0.57
2:ZW:369:SER:HB3	2:Zc:382:TYR:OH	2.03	0.57
2:ZX:50:LEU:H	2:ZX:50:LEU:HD22	1.68	0.57
2:Zb:80:ASN:OD1	2:Zb:81:GLY:N	2.37	0.57
2:Zd:144:MET:HE3	2:Zd:145:ALA:N	2.18	0.57
1:u:179:MET:HG2	10:p:131:GLU:HB2	1.86	0.57
5:I:40:LEU:HD22	7:T:8:ALA:CB	2.34	0.57
1:0:242:ILE:HG22	1:v:26:LEU:HD13	1.86	0.57
1:1:38:ARG:HH22	1:w:119:SER:HB2	1.69	0.57
1:2:154:ASP:OD2	1:2:154:ASP:N	2.36	0.57
1:9:83:GLN:NE2	1:9:97:ILE:O	2.37	0.57
1:ZD:46:TYR:HA	1:ZD:69:GLY:HA2	1.85	0.57
2:ZL:167:LYS:HA	2:ZL:167:LYS:HE3	1.86	0.57
2:ZQ:196:MET:HA	2:ZQ:196:MET:HE3	1.86	0.57
2:ZR:379:GLN:HG3	2:ZW:391:THR:HG23	1.86	0.57
2:ZU:24:ILE:HD13	2:ZZ:384:SER:OG	2.04	0.57
2:Zc:217:ASP:HB3	2:Zc:220:ALA:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zd:208:TRP:NE1	2:Zd:268:GLN:OE1	2.37	0.57
2:Zf:69:THR:OG1	2:Zf:74:ASP:OD2	2.20	0.57
1:w:9:LYS:HE3	10:q:215:GLU:CG	2.30	0.57
2:ZO:161:THR:HA	2:ZU:252:ASN:ND2	2.19	0.57
2:ZO:367:ASP:O	2:ZO:371:GLU:HG2	2.04	0.57
2:ZQ:380:ARG:HB3	2:ZW:396:LEU:HD13	1.86	0.57
2:ZU:112:GLN:OE1	2:ZU:112:GLN:N	2.36	0.57
2:ZU:182:GLY:CA	2:Zf:131:GLY:HA3	2.21	0.57
1:v:38:ARG:NH2	1:v:78:GLU:OE1	2.35	0.57
1:x:124:GLN:HG2	1:x:125:ASN:H	1.69	0.57
1:y:70:THR:CG2	10:n:71:LEU:CD2	2.81	0.57
3:D:52:ILE:HD13	5:I:206:ALA:CB	2.32	0.57
7:U:42:ASP:OD1	7:U:43:ILE:N	2.38	0.57
1:9:56:SER:OG	1:t:153:ARG:HB2	2.04	0.57
2:ZJ:165:PRO:HG2	2:ZJ:201:VAL:HG13	1.85	0.57
2:ZO:140:PRO:HD2	2:ZO:312:LEU:CD2	2.34	0.57
2:ZQ:281:GLN:NE2	2:ZQ:283:GLY:O	2.38	0.57
2:ZU:154:MET:HE1	2:ZU:198:VAL:HG21	1.86	0.57
2:ZX:367:ASP:O	2:ZX:371:GLU:HG2	2.05	0.57
1:v:62:LEU:HD23	8:a:83:PRO:CD	2.35	0.57
1:x:1:MET:HG3	1:x:2:ILE:H	1.69	0.57
1:y:66:LEU:H	1:y:66:LEU:HD23	1.69	0.57
1:9:73:ARG:HD3	1:y:218:TYR:CE2	2.39	0.57
1:9:238:ARG:NE	2:ZF:393:ASP:OD1	2.35	0.57
1:ZA:31:THR:HG22	2:ZF:39:PHE:HB2	1.85	0.57
2:ZP:107:ASN:HD22	2:ZP:138:THR:HG22	1.69	0.57
2:ZU:373:VAL:O	2:ZU:376:ILE:N	2.36	0.57
1:t:98:LYS:NZ	1:z:187:ILE:O	2.33	0.57
1:t:142:ILE:HD13	1:t:149:ILE:HG12	1.86	0.57
1:w:258:THR:HG23	10:q:228:GLU:C	2.29	0.57
8:X:19:LYS:NZ	10:n:51:LEU:HD12	2.20	0.57
1:8:22:ILE:HG21	1:8:233:MET:HG3	1.87	0.57
1:8:45:LEU:HD21	1:x:98:LYS:HG3	1.87	0.57
1:ZA:26:LEU:HD22	2:ZF:384:SER:OG	2.04	0.57
1:ZE:233:MET:HE3	2:ZJ:391:THR:OG1	2.04	0.57
2:ZG:112:GLN:HG2	2:ZG:331:ASP:HB3	1.87	0.57
2:ZJ:373:VAL:O	2:ZJ:377:VAL:HG23	2.04	0.57
2:ZS:159:ASN:ND2	2:ZS:162:ASP:OD1	2.38	0.57
1:r:62:LEU:HD11	8:W:84:LEU:CD1	2.35	0.57
3:D:55:ILE:CD1	5:I:205:MET:CE	2.54	0.57
7:T:117:GLN:HE22	8:Y:125:MET:CG	2.17	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:179:MET:SD	1:v:126:GLY:N	2.78	0.57
1:3:52:PRO:HB3	1:3:65:GLY:H	1.70	0.57
1:8:47:GLN:N	1:8:68:ILE:O	2.37	0.57
1:8:227:ALA:HB1	2:ZJ:399:LEU:CD2	2.35	0.57
1:ZC:240:TYR:CE2	2:ZH:399:LEU:HD11	2.40	0.57
2:ZG:180:LYS:HD2	2:ZG:181:LYS:H	1.70	0.57
2:ZK:102:LEU:HD21	2:ZK:106:ARG:HD3	1.86	0.57
2:ZW:6:ALA:HB1	2:ZW:389:ILE:HG12	1.87	0.57
1:t:242:ILE:HG21	10:o:26:LEU:HD22	1.87	0.57
1:v:257:LEU:HD21	8:Z:98:VAL:CG1	2.33	0.57
1:w:251:ASP:OD2	10:q:225:ARG:NE	2.34	0.57
1:x:257:LEU:C	10:m:217:MET:HE2	2.30	0.57
1:0:2:ILE:HG21	10:p:212:LYS:HG2	1.86	0.57
1:0:22:ILE:HG21	1:0:233:MET:HG3	1.87	0.57
1:ZD:70:THR:HG22	1:ZD:71:GLY:H	1.70	0.57
1:ZD:122:VAL:O	2:ZI:322:ASN:CG	2.48	0.57
1:ZE:85:ASN:CG	2:ZP:50:LEU:HD21	2.30	0.57
2:ZG:165:PRO:HG2	2:ZG:201:VAL:HG13	1.86	0.57
2:ZQ:155:GLN:NE2	2:ZQ:277:VAL:HB	2.19	0.57
2:ZR:107:ASN:ND2	2:ZR:138:THR:OG1	2.38	0.57
2:ZU:71:ARG:NH1	2:ZZ:324:GLU:OE2	2.38	0.57
2:ZZ:196:MET:HE3	2:ZZ:196:MET:HA	1.87	0.57
2:Ze:106:ARG:HH22	2:Ze:141:ASN:HB3	1.68	0.57
1:r:255:GLN:O	1:r:259:GLN:HG2	2.05	0.57
1:u:257:LEU:CD1	8:Y:99:VAL:HG22	2.29	0.57
1:v:46:TYR:HB2	10:q:175:ASP:HA	1.86	0.57
7:S:32:ASN:ND2	8:X:62:VAL:HG22	2.20	0.57
1:9:115:THR:HB	1:9:191:LEU:HD23	1.87	0.57
1:9:128:LEU:HD12	1:9:140:ILE:HB	1.87	0.57
1:ZB:56:SER:HA	1:v:152:GLY:CA	2.35	0.57
2:ZJ:159:ASN:ND2	2:ZJ:161:THR:OG1	2.38	0.57
2:ZN:319:ASN:ND2	2:ZN:352:ASN:O	2.38	0.57
2:ZO:186:VAL:HG23	2:ZO:194:HIS:HB2	1.87	0.57
2:ZQ:111:MET:HB3	2:ZV:55:ALA:HB1	1.86	0.57
2:ZQ:155:GLN:HG3	2:ZQ:278:ALA:HB3	1.86	0.57
2:ZR:181:LYS:HD2	2:Zc:129:GLN:HE22	1.69	0.57
2:Zc:382:TYR:CD2	2:Zh:395:ILE:HD11	2.40	0.57
2:Zd:102:LEU:HD11	2:Zd:139:ILE:HD12	1.87	0.57
1:w:6:TRP:CE2	8:a:77:VAL:CG1	2.80	0.57
1:z:195:THR:HG22	10:o:152:PRO:HB2	1.86	0.57
5:H:66:ARG:HG3	5:H:182:ALA:HB2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:q:116:GLN:HG3	10:q:118:HIS:HD2	1.70	0.57
1:ZB:227:ALA:HA	2:ZM:399:LEU:HD23	1.87	0.56
2:ZF:18:ASP:OD1	2:ZK:2:SER:HB2	2.05	0.56
2:ZM:27:SER:HB2	2:ZR:381:ASN:ND2	2.20	0.56
2:ZV:373:VAL:HG21	2:Zb:10:LEU:HD22	1.87	0.56
2:Zd:71:ARG:NH1	2:Zd:74:ASP:OD1	2.38	0.56
1:v:46:TYR:HE1	10:q:173:ARG:NH1	2.01	0.56
1:v:189:GLU:CB	10:p:200:ARG:HH22	2.18	0.56
3:D:24:LEU:HD13	5:J:203:VAL:HG21	1.87	0.56
8:Y:29:ALA:HB1	10:o:11:ALA:HB2	1.85	0.56
1:1:197:SER:C	1:w:124:GLN:HB3	2.31	0.56
1:3:7:ILE:HG23	1:3:71:GLY:HA2	1.87	0.56
1:5:20:ASP:OD2	1:ZA:3:SER:HB3	2.05	0.56
1:ZB:208:LEU:O	1:ZB:210:GLY:N	2.38	0.56
1:ZE:153:ARG:HD2	1:ZE:213:LEU:HD13	1.86	0.56
2:ZH:319:ASN:HB2	2:ZH:353:PHE:HE1	1.69	0.56
2:ZX:102:LEU:O	2:Zc:322:ASN:HB2	2.05	0.56
2:Za:17:LEU:CD2	2:Zf:391:THR:HG21	2.35	0.56
1:r:253:MET:O	10:m:227:PHE:HE2	1.87	0.56
1:t:66:LEU:CD2	10:o:59:ALA:HB3	2.33	0.56
1:y:52:PRO:HD3	8:X:80:PRO:HB3	1.87	0.56
7:R:34:ASP:OD1	8:W:20:ARG:NH2	2.37	0.56
8:Y:57:GLN:O	8:Y:59:THR:N	2.36	0.56
10:p:2:ASP:OD2	10:p:4:ALA:N	2.31	0.56
1:0:151:ILE:HG12	1:0:157:VAL:HG22	1.86	0.56
1:2:9:LYS:HE3	1:w:228:GLU:HG3	1.85	0.56
1:3:56:SER:HA	10:n:138:ALA:HB1	1.87	0.56
1:4:139:ALA:O	1:4:140:ILE:C	2.49	0.56
1:7:1:MET:HB2	1:w:226:VAL:CG2	2.36	0.56
1:8:45:LEU:CD1	1:x:83:GLN:NE2	2.68	0.56
1:8:122:VAL:O	1:ZD:180:ASN:ND2	2.39	0.56
1:ZD:28:ASN:OD1	2:ZI:52:VAL:HG22	2.05	0.56
1:ZD:52:PRO:HG3	1:ZD:67:GLN:HE21	1.71	0.56
2:ZJ:367:ASP:O	2:ZJ:371:GLU:HG2	2.05	0.56
2:ZK:122:THR:OG1	2:ZK:129:GLN:HG3	2.04	0.56
2:ZM:171:SER:O	2:ZM:177:SER:OG	2.23	0.56
2:ZV:281:GLN:NE2	2:ZV:283:GLY:O	2.34	0.56
2:ZW:101:LYS:NZ	2:Zb:322:ASN:HD21	2.03	0.56
2:ZX:128:ILE:H	2:ZX:128:ILE:HD12	1.71	0.56
2:ZZ:83:PHE:HB2	2:ZZ:95:SER:O	2.05	0.56
2:Za:373:VAL:HG21	2:Zg:10:LEU:HD22	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zc:395:ILE:O	2:Zc:398:THR:HG22	2.06	0.56
2:Zd:159:ASN:ND2	2:Zd:162:ASP:OD2	2.38	0.56
1:t:46:TYR:HH	10:o:34:PHE:HE1	1.49	0.56
1:u:50:ARG:HD3	9:i:322:PRO:CG	2.33	0.56
1:y:1:MET:H3	10:n:70:GLN:HE21	1.41	0.56
1:y:48:THR:HG22	10:n:84:GLN:OE1	2.05	0.56
4:E:149:LEU:O	4:E:153:THR:HG23	2.05	0.56
4:E:166:SER:C	4:E:168:ALA:N	2.64	0.56
7:U:114:LEU:HD22	8:a:126:MET:SD	2.45	0.56
8:Z:106:MET:CG	10:p:232:LYS:HZ1	2.19	0.56
10:n:165:LYS:HG3	10:n:199:ILE:HD11	1.85	0.56
10:p:82:LEU:CD2	10:p:88:LEU:HG	2.32	0.56
1:1:258:THR:CA	10:q:217:MET:HE3	2.25	0.56
1:ZC:22:ILE:HG21	1:ZC:233:MET:HG3	1.87	0.56
2:ZH:75:VAL:CG1	2:ZH:356:LEU:HB3	2.35	0.56
2:ZK:233:ASN:ND2	2:ZK:237:ILE:O	2.38	0.56
2:ZK:310:GLN:O	2:ZK:312:LEU:HD12	2.05	0.56
2:ZR:18:ASP:CG	2:ZW:5:GLN:HE22	2.14	0.56
2:ZX:159:ASN:ND2	2:ZX:161:THR:OG1	2.34	0.56
2:Zb:331:ASP:HA	2:Zg:40:ALA:HB1	1.86	0.56
1:r:253:MET:HE3	10:m:16:LEU:CD2	2.36	0.56
1:t:140:ILE:HG23	1:t:171:GLY:HA3	1.86	0.56
1:x:3:SER:CB	10:m:70:GLN:CD	2.79	0.56
1:z:6:TRP:CZ3	10:o:70:GLN:HB2	2.34	0.56
7:Q:114:LEU:HD11	8:W:7:PHE:CZ	2.39	0.56
8:V:22:ASN:CB	9:b:315:ALA:HB2	2.32	0.56
2:ZN:269:GLN:HB3	2:ZT:286:PRO:HG2	1.87	0.56
2:ZO:236:GLY:O	2:ZO:237:ILE:C	2.49	0.56
2:ZS:180:LYS:HD2	2:ZS:181:LYS:H	1.71	0.56
1:r:46:TYR:CE2	10:m:173:ARG:CD	2.88	0.56
1:w:6:TRP:CZ2	8:a:77:VAL:HG11	2.40	0.56
3:C:4:GLU:C	3:C:6:VAL:H	2.13	0.56
1:0:226:VAL:CG2	1:ZB:1:MET:HB2	2.36	0.56
1:8:56:SER:O	1:s:152:GLY:CA	2.53	0.56
2:ZS:183:THR:HB	2:Zd:131:GLY:C	2.31	0.56
8:a:86:ASP:OD1	8:a:86:ASP:N	2.38	0.56
9:d:324:ASN:HB2	10:m:47:ASP:O	2.05	0.56
1:1:91:ASN:ND2	1:1:94:ASP:OD1	2.39	0.56
1:6:226:VAL:HG11	1:ZB:242:ILE:HD13	1.88	0.56
1:ZA:257:LEU:HD21	1:z:230:LEU:HD12	1.88	0.56
2:ZK:25:ALA:HB1	2:ZP:52:VAL:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZL:165:PRO:HG3	2:ZL:179:ASN:ND2	2.20	0.56
2:ZM:129:GLN:HE21	2:ZM:132:ALA:HB2	1.71	0.56
2:ZR:375:MET:CE	2:ZW:388:THR:HG23	2.32	0.56
2:ZS:322:ASN:HB3	2:ZS:340:SER:HA	1.87	0.56
2:ZT:294:ILE:O	2:ZT:358:ASN:ND2	2.39	0.56
2:ZU:65:THR:CG2	2:Zf:4:SER:HB3	2.30	0.56
2:ZV:101:LYS:HZ1	2:ZV:111:MET:HG3	1.69	0.56
2:Za:387:GLN:OE1	2:Zg:400:VAL:O	2.24	0.56
1:r:210:GLY:HA3	10:m:148:PRO:HB2	1.88	0.56
1:s:243:ASN:OD1	10:n:26:LEU:HB3	2.06	0.56
1:z:9:LYS:HZ1	10:o:72:ASP:CG	2.14	0.56
4:E:101:PHE:CE2	5:F:223:LEU:HD11	2.40	0.56
1:3:107:LEU:HD12	1:3:111:THR:HG23	1.88	0.56
1:ZA:240:TYR:HE2	2:ZF:395:ILE:HG23	1.60	0.56
1:ZE:26:LEU:CD2	2:ZJ:384:SER:OG	2.52	0.56
2:ZI:71:ARG:NH1	2:ZI:74:ASP:OD1	2.39	0.56
2:ZM:150:THR:OG1	2:ZM:282:ASN:ND2	2.38	0.56
2:ZM:196:MET:HA	2:ZM:196:MET:HE3	1.86	0.56
2:ZU:16:ASN:O	2:ZU:20:ILE:HG13	2.06	0.56
1:w:22:ILE:HG21	1:w:233:MET:HG3	1.88	0.56
4:E:176:GLY:HA2	4:E:179:ILE:HD12	1.86	0.56
8:Y:102:MET:CE	10:o:229:MET:HG2	2.34	0.56
1:3:180:ASN:O	1:3:182:THR:N	2.39	0.56
1:9:64:SER:O	1:9:64:SER:OG	2.19	0.56
2:ZM:24:ILE:O	2:ZM:27:SER:OG	2.22	0.56
2:ZO:304:TYR:HE1	2:ZO:310:GLN:HB3	1.71	0.56
2:Ze:156:ILE:HG13	2:Ze:276:ILE:HA	1.87	0.56
1:r:26:LEU:HD13	1:w:242:ILE:HG22	1.87	0.56
1:y:47:GLN:HB2	10:n:68:PRO:HG3	1.88	0.56
1:z:6:TRP:HE3	10:o:70:GLN:HB3	1.67	0.56
3:A:51:PHE:CZ	5:F:202:SER:HA	2.41	0.56
6:M:61:LEU:CD1	7:R:50:LYS:HZ3	2.17	0.56
8:W:72:ALA:O	8:W:95:ASN:ND2	2.38	0.56
1:3:1:MET:HB2	1:s:226:VAL:HG21	1.88	0.56
1:3:19:MET:HB2	1:3:236:VAL:HG11	1.87	0.56
1:5:45:LEU:HD22	1:u:98:LYS:HG3	1.87	0.56
1:5:240:TYR:OH	1:ZA:257:LEU:HD22	2.06	0.56
1:8:56:SER:C	1:s:153:ARG:H	2.13	0.56
1:ZA:99:GLY:O	1:ZA:116:ARG:NH2	2.39	0.56
2:ZL:8:SER:OG	2:ZL:52:VAL:O	2.23	0.56
2:ZW:228:THR:HB	2:ZW:244:VAL:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZY:369:SER:HB3	2:Ze:382:TYR:OH	2.06	0.56
3:A:84:LEU:HD21	5:G:185:ILE:HG23	1.87	0.56
5:J:86:ASN:O	5:J:87:GLN:C	2.49	0.56
7:R:51:LYS:HG2	7:R:55:ARG:NH1	2.20	0.56
8:Z:17:GLN:NE2	8:Z:111:SER:OG	2.39	0.56
10:p:137:ILE:HD13	10:p:143:ILE:HG12	1.87	0.56
1:4:22:ILE:HG21	1:4:233:MET:HG2	1.88	0.55
1:7:19:MET:O	1:7:20:ASP:C	2.48	0.55
1:7:238:ARG:HB3	1:ZD:1:MET:HE1	1.88	0.55
1:ZD:35:LYS:HB2	1:ZD:79:ARG:HD3	1.87	0.55
1:ZD:140:ILE:HD13	1:ZD:157:VAL:HG21	1.88	0.55
2:ZP:164:VAL:HG22	2:ZP:202:LYS:HG2	1.87	0.55
2:ZT:187:TYR:CE2	2:ZT:285:LYS:HB2	2.41	0.55
2:ZU:379:GLN:NE2	2:ZZ:394:GLN:HB2	2.21	0.55
2:ZV:111:MET:N	2:ZV:111:MET:SD	2.79	0.55
2:ZV:330:GLY:O	2:ZV:333:VAL:HG12	2.06	0.55
2:ZY:217:ASP:HB3	2:ZY:220:ALA:HB2	1.88	0.55
1:r:124:GLN:O	1:w:179:MET:HG2	2.06	0.55
1:u:3:SER:O	1:u:7:ILE:HD12	2.06	0.55
1:x:1:MET:HE2	10:m:213:PRO:HG3	1.88	0.55
10:o:181:LEU:HD11	10:o:193:LEU:HG	1.86	0.55
1:2:34:PHE:HB3	1:2:222:SER:HB3	1.88	0.55
1:5:74:PRO:HB2	1:ZA:66:LEU:HD11	1.88	0.55
2:ZQ:330:GLY:N	2:ZV:43:PHE:HB2	2.21	0.55
2:ZT:102:LEU:O	2:ZY:322:ASN:CB	2.53	0.55
2:Zf:109:VAL:HG12	2:Zf:115:GLN:HA	1.88	0.55
3:D:24:LEU:CD1	5:J:203:VAL:HG21	2.36	0.55
4:E:158:PRO:HG2	4:E:162:ASN:ND2	2.15	0.55
5:G:58:LEU:O	5:G:62:THR:OG1	2.22	0.55
8:a:109:SER:CB	10:q:240:ASN:HD21	2.19	0.55
10:m:226:ARG:O	10:m:230:GLN:HG2	2.05	0.55
1:ZE:31:THR:HG22	2:ZJ:39:PHE:C	2.30	0.55
1:ZE:154:ASP:OD2	1:ZE:154:ASP:N	2.37	0.55
2:ZL:18:ASP:CB	2:ZQ:5:GLN:HE22	2.18	0.55
2:ZL:102:LEU:O	2:ZQ:322:ASN:HB2	2.06	0.55
2:ZP:17:LEU:HD13	2:ZU:395:ILE:CD1	2.37	0.55
2:ZT:382:TYR:CE1	2:ZY:395:ILE:HG23	2.40	0.55
2:ZV:144:MET:HG2	2:ZV:287:GLY:H	1.70	0.55
2:ZX:71:ARG:NH1	2:ZX:100:PHE:O	2.36	0.55
1:r:50:ARG:HH22	10:m:58:THR:CG2	2.19	0.55
1:r:246:ALA:HB2	10:m:220:MET:HE1	1.84	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:258:THR:HG22	10:n:229:MET:HE3	1.89	0.55
1:y:44:LEU:HD23	1:y:73:ARG:HD2	1.88	0.55
4:E:166:SER:O	4:E:167:ASN:C	2.49	0.55
5:H:109:TYR:CB	6:M:32:VAL:HG21	2.37	0.55
5:J:67:ILE:CD1	5:J:96:LEU:HB3	2.36	0.55
6:L:87:GLN:O	6:L:91:LYS:HG2	2.06	0.55
7:R:51:LYS:CE	7:R:55:ARG:NH2	2.67	0.55
7:S:3:ASP:O	7:S:7:ALA:N	2.35	0.55
7:T:32:ASN:ND2	8:Y:62:VAL:HG12	2.21	0.55
10:q:196:ASP:HB3	10:q:199:ILE:HD12	1.88	0.55
1:0:70:THR:HG22	10:p:71:LEU:HB2	1.87	0.55
1:4:55:GLN:NE2	1:4:57:SER:O	2.40	0.55
1:4:74:PRO:HB2	1:9:66:LEU:HD11	1.88	0.55
1:5:239:ALA:HB2	1:ZB:1:MET:HE1	1.88	0.55
2:ZF:352:ASN:OD1	2:ZF:352:ASN:N	2.39	0.55
2:ZL:22:ASN:ND2	2:ZQ:49:GLY:HA3	2.21	0.55
2:ZN:107:ASN:ND2	2:ZN:138:THR:OG1	2.39	0.55
2:ZO:156:ILE:HG21	2:ZO:200:PHE:HE2	1.71	0.55
2:ZZ:160:SER:O	2:ZZ:202:LYS:NZ	2.39	0.55
1:r:140:ILE:HG23	1:r:170:VAL:CG1	2.36	0.55
1:v:62:LEU:CD1	8:a:84:LEU:HD11	2.37	0.55
1:v:126:GLY:O	1:v:127:GLN:HB2	2.05	0.55
3:B:74:LEU:HD22	5:H:229:VAL:HG13	1.88	0.55
3:D:59:PHE:HZ	5:I:198:LEU:HD12	1.71	0.55
4:E:170:MET:O	4:E:174:ARG:N	2.26	0.55
7:U:36:PRO:O	9:k:310:GLY:HA2	2.06	0.55
1:0:89:THR:O	1:0:91:ASN:N	2.40	0.55
1:4:32:ASN:HD21	1:9:38:ARG:HH22	1.53	0.55
1:4:54:ALA:HB1	10:o:136:THR:CG2	2.36	0.55
1:5:257:LEU:HD21	1:u:227:ALA:HA	1.87	0.55
1:8:164:GLN:O	1:8:166:ALA:N	2.40	0.55
1:9:85:ASN:ND2	2:ZK:4:SER:CB	2.26	0.55
1:ZA:233:MET:SD	2:ZF:388:THR:HA	2.47	0.55
1:ZA:260:LEU:HD11	1:z:234:ILE:HD11	1.89	0.55
2:ZG:212:THR:HG21	2:ZG:246:ILE:HD13	1.87	0.55
2:ZM:105:ASN:HB2	2:ZM:107:ASN:HD21	1.70	0.55
2:ZP:87:ASP:OD1	2:ZP:87:ASP:N	2.36	0.55
2:Zh:97:ASN:OD1	2:Zh:99:GLN:NE2	2.40	0.55
1:r:62:LEU:CD2	8:W:83:PRO:CG	2.83	0.55
1:t:75:VAL:HA	1:y:51:GLN:HE22	1.71	0.55
1:u:62:LEU:HD23	8:Z:84:LEU:HD23	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:73:ARG:HG3	8:a:78:TYR:CE2	2.41	0.55
7:U:31:ALA:HB1	8:Z:13:ALA:HB2	1.88	0.55
8:Y:123:LYS:HE3	10:o:250:MET:HB2	1.86	0.55
10:q:76:ARG:NH1	10:q:79:ASP:OD1	2.40	0.55
1:4:73:ARG:HB2	1:t:218:TYR:OH	2.06	0.55
2:ZI:144:MET:HE2	2:ZI:310:GLN:NE2	2.20	0.55
2:ZJ:370:LYS:HE2	2:ZP:11:ASN:CG	2.31	0.55
2:ZT:319:ASN:OD1	2:ZT:320:PHE:N	2.39	0.55
2:ZW:196:MET:HE1	2:ZW:214:ASP:HB2	1.88	0.55
2:ZZ:337:THR:HG22	2:ZZ:339:ALA:H	1.72	0.55
2:Zc:93:PHE:HD1	2:Zc:114:MET:HE1	1.71	0.55
1:r:147:LEU:HD11	1:r:162:GLN:HA	1.88	0.55
1:s:72:VAL:HG11	10:n:27:ALA:O	2.07	0.55
1:v:194:GLU:OE1	1:v:201:PRO:HD3	2.06	0.55
1:v:242:ILE:CD1	10:q:213:PRO:HB3	2.33	0.55
3:A:6:VAL:HG21	5:H:228:LEU:HD21	1.88	0.55
5:F:135:ARG:O	5:F:136:ALA:C	2.48	0.55
5:I:163:GLU:N	5:I:163:GLU:OE2	2.39	0.55
7:R:90:PRO:HB3	7:R:99:THR:HB	1.88	0.55
1:0:180:ASN:HD22	1:v:122:VAL:HG23	1.71	0.55
2:ZR:183:THR:CG2	2:Zc:132:ALA:HA	2.36	0.55
2:ZS:247:THR:HG23	2:ZS:258:THR:HG22	1.88	0.55
2:ZU:66:THR:O	2:Zf:42:MET:HE1	2.07	0.55
2:Za:150:THR:OG1	2:Za:282:ASN:ND2	2.34	0.55
2:Za:382:TYR:CE1	2:Zf:395:ILE:HG23	2.41	0.55
2:Zb:217:ASP:HB3	2:Zb:220:ALA:HB2	1.88	0.55
2:Zd:33:LYS:NZ	2:Zd:362:GLU:OE1	2.39	0.55
2:Zd:381:ASN:OD1	2:Zd:385:ASN:ND2	2.39	0.55
1:r:47:GLN:NE2	8:V:73:PRO:CB	2.69	0.55
1:s:40:VAL:HG11	10:n:104:ASN:HD22	1.71	0.55
1:z:229:GLU:O	1:z:233:MET:HG3	2.06	0.55
3:C:84:LEU:HD21	5:I:185:ILE:HG23	1.89	0.55
6:K:72:MET:O	6:K:76:GLN:HG2	2.06	0.55
1:2:233:MET:O	1:2:236:VAL:HG22	2.06	0.55
1:6:73:ARG:NH2	1:v:215:TYR:HE1	2.05	0.55
2:ZN:71:ARG:NH1	2:ZN:74:ASP:OD1	2.40	0.55
2:ZW:181:LYS:NZ	2:Zh:129:GLN:NE2	2.54	0.55
2:ZZ:33:LYS:O	2:ZZ:59:GLN:NE2	2.38	0.55
6:N:57:GLU:HG2	7:S:11:PHE:CD2	2.42	0.55
8:W:47:VAL:O	9:e:313:PRO:HD2	2.06	0.55
1:1:38:ARG:NH1	1:w:94:ASP:OD2	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:108:PRO:HG3	1:ZC:60:THR:HG21	1.88	0.55
1:8:79:ARG:NH2	1:8:184:LEU:O	2.40	0.55
2:ZR:210:VAL:HB	2:ZR:228:THR:HG22	1.88	0.55
2:ZW:183:THR:HG21	2:Zh:133:ASN:N	2.22	0.55
2:ZX:80:ASN:ND2	2:ZX:352:ASN:OD1	2.39	0.55
2:ZY:251:ILE:HG22	2:ZY:252:ASN:OD1	2.07	0.55
2:Zh:294:ILE:O	2:Zh:358:ASN:ND2	2.40	0.55
1:u:77:THR:HG23	1:z:66:LEU:HB2	1.87	0.55
5:J:66:ARG:HG2	5:J:243:PHE:HZ	1.72	0.55
6:P:89:ARG:NH2	6:P:90:ASN:OD1	2.39	0.55
8:Y:19:LYS:HE2	10:o:51:LEU:HD13	1.89	0.55
1:0:16:GLN:HE22	1:5:2:ILE:HD11	1.72	0.55
1:9:56:SER:C	1:t:153:ARG:H	2.15	0.55
2:ZH:285:LYS:O	2:ZH:306:ASN:ND2	2.40	0.55
2:ZM:367:ASP:O	2:ZM:371:GLU:HG2	2.07	0.55
2:ZN:112:GLN:HG2	2:ZN:331:ASP:HB3	1.88	0.55
2:ZU:183:THR:CB	2:Zf:131:GLY:O	2.54	0.55
2:ZU:373:VAL:HG11	2:Za:7:VAL:HG22	1.87	0.55
2:ZY:234:GLU:HB3	2:Ze:255:THR:OG1	2.06	0.55
1:s:62:LEU:HD11	8:X:84:LEU:HD11	1.88	0.55
5:F:83:ALA:HB3	5:F:84:PRO:HD3	1.89	0.55
9:c:320:PRO:HG3	10:m:44:VAL:HG21	1.89	0.55
1:3:73:ARG:HB2	1:s:218:TYR:OH	2.06	0.54
1:ZE:22:ILE:HG21	1:ZE:233:MET:HG3	1.89	0.54
2:ZQ:184:VAL:HG13	2:ZQ:196:MET:HB2	1.89	0.54
2:ZS:117:THR:HG22	2:ZS:136:PRO:HA	1.89	0.54
2:ZS:349:GLY:O	2:ZY:89:ASN:ND2	2.40	0.54
2:ZU:178:TYR:HA	2:ZU:201:VAL:HG22	1.89	0.54
2:ZW:70:GLY:N	2:ZW:359:GLY:O	2.38	0.54
2:ZZ:331:ASP:HA	2:Ze:40:ALA:HB1	1.89	0.54
2:Za:106:ARG:NH1	2:Zf:321:ALA:HB2	2.22	0.54
1:s:178:PHE:CE1	1:s:201:PRO:HB3	2.42	0.54
1:y:6:TRP:CG	10:n:70:GLN:HB3	2.37	0.54
3:C:84:LEU:HD23	5:I:238:SER:OG	2.07	0.54
4:E:233:MET:O	4:E:236:ILE:HG12	2.07	0.54
5:J:143:ARG:HB2	5:J:146:ASP:OD2	2.07	0.54
8:a:3:LEU:H	9:b:319:GLN:HE21	1.55	0.54
10:o:75:SER:O	10:o:75:SER:OG	2.23	0.54
10:q:87:TRP:HB3	10:q:99:TYR:HB3	1.90	0.54
1:2:35:LYS:NZ	1:2:220:GLU:OE2	2.40	0.54
1:3:33:GLY:N	1:3:220:GLU:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:42:GLU:OE2	1:4:73:ARG:NE	2.28	0.54
1:4:52:PRO:HB3	1:4:65:GLY:H	1.72	0.54
2:ZH:269:GLN:OE1	2:ZN:146:ALA:N	2.40	0.54
2:ZI:160:SER:OG	2:ZO:192:ASN:OD1	2.25	0.54
2:ZM:184:VAL:HG13	2:ZM:196:MET:HB2	1.88	0.54
1:r:80:LEU:HD13	10:m:76:ARG:CD	2.38	0.54
1:r:95:VAL:HG12	1:r:216:GLN:HA	1.89	0.54
5:J:68:ILE:O	5:J:69:ILE:C	2.50	0.54
7:S:36:PRO:HB3	7:S:96:ASP:HB2	1.89	0.54
8:X:6:ILE:CG2	8:X:122:VAL:HG21	2.33	0.54
10:n:51:LEU:O	10:n:52:ALA:C	2.51	0.54
1:0:89:THR:C	1:0:91:ASN:N	2.61	0.54
1:6:42:GLU:OE1	1:6:73:ARG:NH2	2.32	0.54
1:8:164:GLN:C	1:8:166:ALA:N	2.65	0.54
1:ZD:164:GLN:O	1:ZD:165:ALA:C	2.50	0.54
1:ZE:16:GLN:HE22	2:ZJ:392:GLN:NE2	2.05	0.54
2:ZK:118:GLY:HA2	2:ZK:316:VAL:HG12	1.87	0.54
2:ZU:165:PRO:HG2	2:ZU:201:VAL:HG13	1.89	0.54
2:ZU:180:LYS:HZ1	2:ZU:274:ASN:C	2.15	0.54
1:u:45:LEU:CD2	8:Y:76:LEU:CD1	2.86	0.54
1:w:73:ARG:CG	8:a:78:TYR:CE2	2.90	0.54
1:z:22:ILE:HG21	1:z:233:MET:HG2	1.89	0.54
7:S:106:ARG:HG2	10:o:248:LEU:HD21	1.88	0.54
8:Z:119:LEU:HD12	10:p:247:LEU:HD21	1.89	0.54
8:a:116:ILE:HG23	10:q:247:LEU:CD1	2.38	0.54
1:5:237:GLN:HE21	1:ZA:252:GLN:CB	2.20	0.54
1:ZA:45:LEU:HD13	1:z:83:GLN:CG	2.35	0.54
1:ZC:257:LEU:O	1:ZC:260:LEU:HB2	2.07	0.54
2:ZN:93:PHE:HB3	2:ZN:333:VAL:HG13	1.89	0.54
2:ZU:146:ALA:HB2	2:ZU:286:PRO:HD3	1.88	0.54
2:Zb:57:ILE:HD12	2:Zg:47:LYS:HB2	1.88	0.54
2:Zb:83:PHE:HB2	2:Zb:95:SER:O	2.08	0.54
1:v:50:ARG:HD3	9:k:322:PRO:HD3	1.89	0.54
1:v:187:ILE:HG13	1:v:191:LEU:HB2	1.90	0.54
1:w:12:LEU:CB	10:q:214:VAL:HG11	2.37	0.54
9:f:330:THR:HB	9:f:331:PRO:HD3	1.88	0.54
1:1:251:ASP:OD1	1:v:238:ARG:NH2	2.40	0.54
1:3:124:GLN:HB2	1:8:199:GLY:HA2	1.90	0.54
1:8:205:THR:OG1	1:8:208:LEU:HD23	2.08	0.54
1:ZD:37:GLN:OE1	2:ZI:43:PHE:CE2	2.61	0.54
1:ZE:28:ASN:OD1	2:ZJ:52:VAL:CG2	2.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZG:97:ASN:OD1	2:ZG:98:GLY:N	2.40	0.54
2:ZK:99:GLN:HG3	2:ZK:361:LEU:HD11	1.88	0.54
2:ZN:331:ASP:HA	2:ZS:40:ALA:HB1	1.90	0.54
2:ZP:201:VAL:HG23	2:ZP:209:ALA:HB3	1.90	0.54
2:ZU:368:LEU:HD13	2:Zf:396:LEU:HD11	1.90	0.54
2:ZV:373:VAL:HG21	2:Zb:10:LEU:CD2	2.37	0.54
2:Za:24:ILE:CG2	2:Zf:384:SER:OG	2.55	0.54
2:Ze:322:ASN:HB3	2:Ze:340:SER:HA	1.89	0.54
2:Zf:79:GLN:O	2:Zf:96:ARG:NH2	2.40	0.54
1:u:66:LEU:HD21	10:p:17:ASN:HD22	1.72	0.54
1:z:3:SER:HA	10:o:70:GLN:HG2	1.90	0.54
3:C:36:SER:C	3:D:44:ILE:HD12	2.33	0.54
6:K:69:ASN:HD21	7:Q:20:ALA:CB	2.20	0.54
8:V:113:GLN:O	8:V:117:GLU:HG2	2.07	0.54
8:Y:57:GLN:C	8:Y:59:THR:N	2.63	0.54
10:q:51:LEU:HB2	10:q:53:THR:HG23	1.90	0.54
1:2:163:GLY:HA2	1:ZD:111:THR:HG21	1.89	0.54
1:7:56:SER:HB3	1:7:62:LEU:HB2	1.88	0.54
2:ZN:248:THR:OG1	2:ZN:257:ALA:N	2.40	0.54
2:ZV:2:SER:OG	2:ZV:392:GLN:OE1	2.21	0.54
2:Za:157:ASN:HD21	2:Zg:143:LEU:HD13	1.68	0.54
1:u:205:THR:HB	1:u:208:LEU:HD12	1.89	0.54
4:E:236:ILE:O	4:E:240:CYS:N	2.36	0.54
8:Z:45:LYS:HZ1	10:p:55:THR:HG1	1.45	0.54
8:a:29:ALA:HB1	10:q:57:VAL:HG13	1.90	0.54
8:a:85:ALA:HB1	8:a:89:GLY:HA2	1.89	0.54
1:1:42:GLU:CD	1:w:189:GLU:HG3	2.33	0.54
1:4:19:MET:HB2	1:4:236:VAL:HG11	1.90	0.54
1:7:238:ARG:HD2	1:ZD:254:LEU:HB3	1.88	0.54
1:9:241:GLU:HG2	1:ZE:256:LYS:HG3	1.90	0.54
1:ZC:240:TYR:HE2	2:ZH:399:LEU:HD11	1.72	0.54
2:ZU:183:THR:N	2:Zf:131:GLY:O	2.40	0.54
2:ZV:112:GLN:HG2	2:ZV:331:ASP:HB3	1.89	0.54
2:ZV:159:ASN:ND2	2:ZV:162:ASP:OD2	2.38	0.54
2:Za:14:ALA:HB2	2:Za:382:TYR:HE2	1.72	0.54
1:r:46:TYR:CZ	10:m:173:ARG:HD3	2.42	0.54
1:t:62:LEU:HD23	8:Y:83:PRO:HG2	1.90	0.54
1:t:241:GLU:HG3	1:y:256:LYS:HE3	1.88	0.54
1:y:2:ILE:CD1	10:n:213:PRO:HD2	2.29	0.54
1:z:180:ASN:ND2	1:z:197:SER:O	2.38	0.54
8:V:80:PRO:HB3	8:V:89:GLY:HA3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:108:PRO:HG3	1:ZC:60:THR:CG2	2.38	0.54
1:3:165:ALA:HB1	1:ZE:194:GLU:HG2	1.89	0.54
1:3:184:LEU:HB3	1:3:192:TYR:HB3	1.90	0.54
1:8:19:MET:HE1	1:8:233:MET:HG2	1.88	0.54
2:ZH:234:GLU:OE2	2:ZN:255:THR:CB	2.46	0.54
2:ZJ:102:LEU:O	2:ZO:322:ASN:HB2	2.08	0.54
2:ZM:81:GLY:HA3	2:ZM:317:LEU:HD23	1.89	0.54
2:ZT:83:PHE:HB2	2:ZT:95:SER:O	2.08	0.54
2:Ze:130:GLN:H	2:Ze:130:GLN:CD	2.15	0.54
1:r:140:ILE:HG23	1:r:170:VAL:HG11	1.90	0.54
1:s:2:ILE:HD11	10:n:16:LEU:CD2	2.19	0.54
1:s:19:MET:HE1	1:s:233:MET:HG2	1.90	0.54
1:u:188:GLY:O	1:u:190:ASN:N	2.40	0.54
3:B:62:ILE:O	3:B:66:GLY:N	2.39	0.54
4:E:38:ILE:HB	4:E:43:LYS:HE2	1.90	0.54
5:F:75:ARG:HD2	5:F:84:PRO:HD2	1.89	0.54
5:J:63:SER:O	5:J:67:ILE:HB	2.07	0.54
6:O:75:MET:CE	7:T:122:VAL:HG22	2.37	0.54
7:T:115:LYS:HE2	8:Z:4:LEU:HD21	1.90	0.54
10:o:18:GLN:NE2	10:o:41:LEU:HG	2.22	0.54
1:0:78:GLU:HG2	1:v:121:GLN:NE2	2.23	0.54
1:2:231:VAL:O	1:2:235:GLN:HG3	2.08	0.54
2:ZP:74:ASP:O	2:ZP:359:GLY:N	2.40	0.54
2:ZP:93:PHE:HB3	2:ZP:333:VAL:HG13	1.90	0.54
2:ZQ:102:LEU:HD21	2:ZQ:106:ARG:HA	1.90	0.54
2:ZV:383:GLN:O	2:ZV:387:GLN:HG2	2.07	0.54
2:Zc:84:ARG:HD2	2:Zc:345:LEU:HD21	1.90	0.54
1:s:187:ILE:HD11	1:s:193:ILE:HD13	1.90	0.54
1:y:254:LEU:O	1:y:258:THR:HG23	2.08	0.54
1:z:9:LYS:NZ	10:o:72:ASP:CG	2.66	0.54
3:D:58:VAL:HB	5:J:207:LEU:HD21	1.89	0.54
5:J:64:PHE:O	5:J:67:ILE:HG22	2.08	0.54
5:J:230:ASP:OD2	5:J:230:ASP:N	2.40	0.54
8:Z:57:GLN:O	8:Z:59:THR:N	2.40	0.54
8:a:37:PRO:HG3	10:q:45:PRO:HD2	1.89	0.54
10:q:180:ARG:HG3	10:q:180:ARG:NH1	2.21	0.54
1:0:116:ARG:NH1	1:0:220:GLU:OE2	2.41	0.54
1:3:128:LEU:HD12	1:3:140:ILE:HB	1.90	0.54
1:6:175:LEU:HD21	1:6:214:LEU:HD21	1.89	0.54
2:ZH:375:MET:SD	2:ZM:388:THR:OG1	2.64	0.54
2:ZH:399:LEU:O	2:ZH:400:VAL:C	2.51	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zc:382:TYR:CE1	2:Zh:395:ILE:HD11	2.42	0.54
1:v:179:MET:CE	10:q:131:GLU:CB	2.84	0.54
6:O:86:ILE:HD11	7:T:133:VAL:CG2	2.38	0.54
7:R:93:PRO:HB2	10:n:46:VAL:HG12	1.89	0.54
1:6:52:PRO:HB3	1:6:65:GLY:H	1.73	0.53
1:ZB:40:VAL:O	1:ZB:75:VAL:N	2.41	0.53
1:ZC:151:ILE:HG12	1:ZC:157:VAL:HG22	1.90	0.53
1:ZE:208:LEU:O	1:ZE:210:GLY:N	2.40	0.53
2:ZR:373:VAL:CG1	2:ZX:7:VAL:HG22	2.38	0.53
2:Za:10:LEU:HD21	2:Zf:399:LEU:HD11	1.90	0.53
2:Ze:99:GLN:HE22	2:Ze:111:MET:HG2	1.73	0.53
2:Zf:397:ASN:O	2:Zf:398:THR:C	2.51	0.53
1:s:153:ARG:HH12	1:y:108:PRO:HG2	1.72	0.53
1:t:245:LYS:CD	10:o:220:MET:HE3	2.38	0.53
1:x:2:ILE:CG2	1:x:254:LEU:HD11	2.37	0.53
1:y:2:ILE:CD1	10:n:213:PRO:CD	2.85	0.53
1:y:6:TRP:NE1	10:n:70:GLN:HG2	2.19	0.53
7:R:92:GLN:HE21	10:n:53:THR:HB	1.73	0.53
7:S:91:ASP:OD1	8:Y:19:LYS:NZ	2.30	0.53
7:T:117:GLN:HE22	8:Y:125:MET:HG3	1.74	0.53
2:ZY:16:ASN:HB2	2:ZY:39:PHE:HZ	1.72	0.53
2:Ze:397:ASN:O	2:Ze:398:THR:C	2.48	0.53
3:D:42:THR:HG22	3:D:44:ILE:HG12	1.91	0.53
5:H:39:SER:OG	6:N:49:GLN:OE1	2.16	0.53
5:I:87:GLN:NE2	6:M:98:GLU:OE2	2.39	0.53
5:I:139:LEU:HG	5:I:170:LEU:HD21	1.90	0.53
10:o:115:ILE:HG22	10:o:116:GLN:HG3	1.90	0.53
1:0:2:ILE:HG21	10:p:212:LYS:CG	2.38	0.53
1:0:195:THR:HG23	10:p:152:PRO:CB	2.38	0.53
1:1:19:MET:HB2	1:1:236:VAL:HG11	1.91	0.53
1:5:174:ASN:ND2	1:5:203:GLU:OE2	2.36	0.53
1:6:57:SER:O	1:6:59:GLN:N	2.35	0.53
1:ZB:120:PHE:HB3	1:ZB:128:LEU:HD22	1.90	0.53
2:ZH:269:GLN:CB	2:ZN:286:PRO:HG2	2.38	0.53
2:ZJ:370:LYS:CE	2:ZP:11:ASN:ND2	2.69	0.53
2:ZP:112:GLN:HG2	2:ZP:331:ASP:HB3	1.89	0.53
2:ZU:293:GLN:NE2	2:ZU:303:ASN:HD21	2.07	0.53
2:ZV:3:PHE:O	2:ZV:7:VAL:HG23	2.09	0.53
2:ZW:33:LYS:NZ	2:ZW:362:GLU:OE1	2.42	0.53
1:s:210:GLY:HA2	10:n:148:PRO:O	2.08	0.53
8:Y:10:ALA:HB3	8:Y:119:LEU:HD13	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:226:VAL:HG23	1:ZE:1:MET:O	2.08	0.53
1:3:238:ARG:HH21	1:9:251:ASP:CG	2.14	0.53
1:6:44:LEU:HD22	1:v:86:LEU:HD12	1.89	0.53
1:9:22:ILE:HG21	1:9:233:MET:HG3	1.90	0.53
2:ZG:150:THR:OG1	2:ZG:282:ASN:ND2	2.38	0.53
2:ZH:17:LEU:HD13	2:ZM:395:ILE:HD11	1.90	0.53
2:ZS:367:ASP:O	2:ZS:371:GLU:HG2	2.09	0.53
2:ZT:158:LEU:HB2	2:ZT:268:GLN:HG3	1.90	0.53
2:ZY:17:LEU:HD13	2:Zd:395:ILE:HD11	1.90	0.53
2:ZY:299:THR:HG22	2:ZY:314:GLN:HG3	1.88	0.53
2:Zf:111:MET:HA	2:Zf:111:MET:HE3	1.90	0.53
2:Zg:157:ASN:HB3	2:Zg:271:THR:HG21	1.90	0.53
1:y:2:ILE:HG22	1:y:4:SER:H	1.73	0.53
5:H:168:ARG:O	5:I:99:PHE:HZ	1.91	0.53
7:Q:10:ARG:NH1	7:Q:53:MET:HE3	2.24	0.53
10:p:87:TRP:HB3	10:p:99:TYR:HB3	1.91	0.53
1:2:238:ARG:HG3	1:8:254:LEU:HD13	1.91	0.53
1:3:145:ASN:O	1:3:161:GLN:NE2	2.42	0.53
1:4:78:GLU:OE1	1:z:121:GLN:NE2	2.41	0.53
1:ZC:28:ASN:OD1	2:ZH:52:VAL:CB	2.56	0.53
1:ZD:31:THR:CG2	2:ZI:39:PHE:HB2	2.35	0.53
1:ZE:85:ASN:HD22	2:ZP:4:SER:HB2	1.73	0.53
2:ZH:390:LYS:HB2	2:ZM:402:LEU:CD2	2.37	0.53
2:ZP:396:LEU:O	2:ZP:400:VAL:HG23	2.09	0.53
2:ZV:34:SER:HB3	2:ZV:366:VAL:HG12	1.91	0.53
2:ZV:387:GLN:NE2	2:Zb:400:VAL:O	2.42	0.53
2:Zh:5:GLN:HG2	2:Zh:6:ALA:N	2.23	0.53
5:F:179:LEU:HD22	5:G:84:PRO:HG3	1.90	0.53
6:O:68:LEU:CD2	8:Z:126:MET:HE2	2.36	0.53
8:X:68:ILE:HD11	9:g:312:VAL:CG2	2.39	0.53
8:a:37:PRO:HG3	10:q:45:PRO:HD3	1.90	0.53
10:o:216:ALA:O	10:o:220:MET:HG3	2.08	0.53
1:3:57:SER:HA	10:n:140:ASP:CG	2.34	0.53
1:ZA:97:ILE:HD12	1:ZA:116:ARG:HG3	1.91	0.53
1:ZD:47:GLN:N	1:ZD:68:ILE:O	2.41	0.53
2:ZL:57:ILE:HD13	2:ZQ:47:LYS:HB3	1.89	0.53
2:ZL:355:LYS:NZ	2:ZR:89:ASN:HD21	2.06	0.53
2:ZL:382:TYR:CE1	2:ZQ:395:ILE:HG23	2.44	0.53
2:ZQ:112:GLN:NE2	2:ZQ:331:ASP:HB3	2.24	0.53
2:ZS:181:LYS:HD3	2:Zd:129:GLN:NE2	2.24	0.53
2:ZT:29:THR:O	2:ZT:30:TYR:C	2.52	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:79:ARG:HH21	1:r:186:SER:HG	1.56	0.53
1:t:68:ILE:CG2	10:o:21:VAL:CG2	2.71	0.53
4:E:127:ARG:O	4:E:131:MET:HE3	2.08	0.53
5:F:60:MET:CE	5:G:91:GLY:HA3	2.38	0.53
6:M:68:LEU:CD1	7:R:118:MET:SD	2.96	0.53
8:W:23:VAL:HG23	10:m:53:THR:HB	1.90	0.53
1:0:1:MET:HE3	10:p:29:ALA:HB1	1.91	0.53
1:1:115:THR:HB	1:1:191:LEU:HD23	1.91	0.53
1:7:49:ILE:HG21	1:7:66:LEU:HD23	1.91	0.53
1:ZB:147:LEU:HD23	2:ZG:352:ASN:OD1	2.08	0.53
2:ZO:156:ILE:HG13	2:ZO:276:ILE:HA	1.90	0.53
2:ZO:288:ASP:OD1	2:ZO:289:LEU:N	2.41	0.53
2:ZO:374:ASN:O	2:ZO:377:VAL:N	2.42	0.53
2:ZR:200:PHE:CE2	2:ZR:263:PHE:HE1	2.26	0.53
2:Za:24:ILE:HG21	2:Zf:384:SER:OG	2.08	0.53
2:Zd:397:ASN:C	2:Zd:399:LEU:N	2.63	0.53
1:x:3:SER:HA	10:m:70:GLN:HG3	0.62	0.53
5:F:207:LEU:HD23	5:F:209:MET:HE1	1.91	0.53
8:Z:28:LEU:HD21	8:Z:101:GLU:HB2	1.91	0.53
1:5:241:GLU:HG2	1:ZA:256:LYS:CE	2.32	0.53
1:ZC:240:TYR:HE2	2:ZH:399:LEU:CD1	2.22	0.53
2:ZF:84:ARG:NH1	2:ZF:134:PRO:HB2	2.23	0.53
2:ZL:18:ASP:CB	2:ZQ:5:GLN:NE2	2.72	0.53
2:ZR:295:ASN:ND2	2:ZR:299:THR:OG1	2.38	0.53
2:ZW:112:GLN:OE1	2:ZW:112:GLN:N	2.42	0.53
2:ZY:106:ARG:HH12	2:ZY:141:ASN:HB3	1.74	0.53
2:ZZ:269:GLN:CD	2:Zf:146:ALA:HB2	2.33	0.53
1:w:80:LEU:O	1:w:223:ASN:ND2	2.42	0.53
6:P:87:GLN:HG2	8:V:130:LEU:O	2.08	0.53
8:X:47:VAL:O	9:g:313:PRO:HD2	2.08	0.53
10:n:137:ILE:HG12	10:n:143:ILE:HG12	1.91	0.53
10:q:42:ARG:HG3	10:q:58:THR:HG23	1.91	0.53
1:7:256:LYS:HD2	1:7:256:LYS:O	2.08	0.53
2:ZF:288:ASP:OD2	2:ZF:288:ASP:N	2.40	0.53
2:ZG:217:ASP:HB3	2:ZG:220:ALA:HB2	1.90	0.53
2:ZI:190:GLN:OE1	2:ZI:192:ASN:ND2	2.36	0.53
2:ZU:328:SER:HB3	2:ZZ:43:PHE:CD2	2.43	0.53
2:ZV:128:ILE:HD12	2:ZV:314:GLN:HB2	1.90	0.53
2:Ze:137:ILE:HG21	2:Ze:300:VAL:HG21	1.90	0.53
1:r:9:LYS:CE	8:a:100:GLY:HA2	2.36	0.53
1:u:72:VAL:CG1	10:p:27:ALA:HB1	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:242:ILE:HG12	10:q:26:LEU:HD22	1.91	0.53
1:w:12:LEU:CD1	10:q:214:VAL:HG13	2.38	0.53
1:z:43:ASP:OD1	1:z:43:ASP:N	2.41	0.53
7:S:46:ALA:O	7:S:50:LYS:HG3	2.09	0.53
10:m:76:ARG:HB3	10:m:79:ASP:OD1	2.09	0.53
10:o:91:GLN:HB3	10:o:119:PRO:HG2	1.89	0.53
1:l:257:LEU:CD2	10:q:213:PRO:HB2	2.39	0.53
1:3:167:PRO:HD3	1:ZE:196:GLN:HB3	1.90	0.53
1:ZB:122:VAL:HG23	2:ZG:321:ALA:O	2.09	0.53
1:ZE:19:MET:HE3	2:ZJ:395:ILE:CD1	2.39	0.53
2:ZH:10:LEU:HD21	2:ZM:399:LEU:HD11	1.90	0.53
2:ZH:382:TYR:CE1	2:ZM:395:ILE:HG23	2.44	0.53
2:ZJ:151:THR:OG1	2:ZJ:282:ASN:ND2	2.42	0.53
2:ZO:148:SER:HA	2:ZO:187:TYR:O	2.08	0.53
2:ZO:201:VAL:HG23	2:ZO:209:ALA:HB3	1.91	0.53
2:ZU:160:SER:HA	2:ZU:268:GLN:HE21	1.74	0.53
2:ZX:18:ASP:HB3	2:Zc:5:GLN:HE22	1.74	0.53
2:ZX:331:ASP:O	2:ZX:333:VAL:HG23	2.08	0.53
2:Zc:10:LEU:HD22	2:Zc:389:ILE:HD12	1.91	0.53
1:v:67:GLN:NE2	10:q:175:ASP:OD1	2.42	0.53
1:z:193:ILE:HD12	10:o:152:PRO:HG2	1.91	0.53
5:I:214:PRO:HD2	5:J:211:MET:O	2.09	0.53
1:l:260:LEU:HD21	10:q:221:ILE:CD1	2.39	0.52
1:6:1:MET:HB2	1:v:29:VAL:CG1	2.39	0.52
1:8:257:LEU:HD21	1:x:227:ALA:HA	1.90	0.52
1:ZD:158:SER:HB3	1:ZD:167:PRO:HB2	1.91	0.52
2:ZK:146:ALA:HB2	2:ZK:286:PRO:HD3	1.91	0.52
2:ZR:44:ALA:HB3	2:ZR:50:LEU:HD12	1.91	0.52
2:ZZ:33:LYS:NZ	2:ZZ:362:GLU:OE1	2.42	0.52
2:Za:188:ASP:OD1	2:Za:192:ASN:N	2.42	0.52
1:s:199:GLY:O	1:s:200:ALA:C	2.52	0.52
1:t:127:GLN:H	1:t:141:THR:HG23	1.74	0.52
1:z:3:SER:O	1:z:7:ILE:HG13	2.09	0.52
3:A:54:LYS:CD	5:G:207:LEU:HD23	2.39	0.52
4:E:227:MET:SD	4:E:228:LEU:N	2.82	0.52
5:H:153:LEU:HD22	5:I:99:PHE:HB3	1.90	0.52
6:P:61:LEU:CD2	7:U:50:LYS:HZ3	2.22	0.52
10:m:107:VAL:HG12	10:m:113:LEU:HD23	1.91	0.52
1:3:242:ILE:HD12	1:9:1:MET:HE1	1.90	0.52
1:ZC:5:LEU:O	1:ZC:9:LYS:HG3	2.09	0.52
1:ZE:167:PRO:CG	2:ZP:338:GLN:NE2	2.71	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZG:382:TYR:HE1	2:ZL:399:LEU:HD11	1.74	0.52
2:ZT:196:MET:HA	2:ZT:196:MET:HE3	1.90	0.52
2:ZU:77:ILE:HG13	2:ZU:96:ARG:HH21	1.75	0.52
2:Zb:233:ASN:HD21	2:Zb:237:ILE:HB	1.74	0.52
2:Ze:165:PRO:HG2	2:Ze:201:VAL:HG13	1.91	0.52
2:Zh:2:SER:C	2:Zh:392:GLN:HE22	2.17	0.52
1:r:19:MET:HE1	1:r:233:MET:HE2	1.90	0.52
1:t:50:ARG:HD2	9:h:328:ILE:HD13	1.91	0.52
1:v:46:TYR:CE1	10:q:173:ARG:CD	2.92	0.52
5:G:59:LEU:O	5:G:65:THR:OG1	2.21	0.52
5:J:68:ILE:HG23	5:J:69:ILE:N	2.24	0.52
5:J:144:GLU:O	5:J:145:ALA:C	2.53	0.52
1:1:79:ARG:NH2	1:1:184:LEU:O	2.43	0.52
2:ZF:54:VAL:O	2:ZF:55:ALA:C	2.52	0.52
2:ZL:26:ASN:ND2	2:ZQ:52:VAL:HG22	2.24	0.52
2:ZN:269:GLN:HE21	2:ZT:146:ALA:HB3	1.73	0.52
2:ZR:83:PHE:HB2	2:ZR:95:SER:O	2.10	0.52
2:ZS:369:SER:HA	2:Zd:399:LEU:CD1	2.40	0.52
2:ZV:180:LYS:HD3	2:ZV:274:ASN:HB3	1.91	0.52
2:ZV:379:GLN:NE2	2:Za:394:GLN:OE1	2.42	0.52
2:ZX:42:MET:HG2	2:ZX:53:LYS:HE3	1.91	0.52
2:Zd:281:GLN:NE2	2:Zd:283:GLY:O	2.39	0.52
2:Zd:397:ASN:O	2:Zd:399:LEU:N	2.43	0.52
1:x:1:MET:CE	10:m:213:PRO:HG3	2.38	0.52
5:H:80:THR:O	5:H:80:THR:OG1	2.26	0.52
5:H:232:TRP:O	5:H:236:MET:HG3	2.09	0.52
5:J:138:MET:HE1	5:J:171:LEU:HA	1.90	0.52
8:X:47:VAL:O	9:g:313:PRO:CD	2.57	0.52
8:a:120:ASN:O	8:a:123:LYS:HG2	2.08	0.52
10:q:115:ILE:HD12	10:q:120:VAL:HG22	1.91	0.52
1:1:242:ILE:HG22	1:w:26:LEU:HD13	1.92	0.52
1:2:208:LEU:O	1:2:210:GLY:N	2.42	0.52
2:ZU:170:PHE:HE2	2:ZU:223:PRO:HG2	1.73	0.52
2:ZW:181:LYS:HZ3	2:Zh:129:GLN:HE21	1.55	0.52
2:ZX:319:ASN:OD1	2:ZX:320:PHE:N	2.42	0.52
1:v:143:PRO:HG2	1:v:161:GLN:HE22	1.73	0.52
5:I:180:LYS:O	5:I:184:GLN:HG3	2.09	0.52
5:J:66:ARG:HG2	5:J:243:PHE:CZ	2.44	0.52
6:K:77:LYS:O	6:K:80:VAL:N	2.42	0.52
1:0:127:GLN:HA	1:0:140:ILE:O	2.10	0.52
1:1:6:TRP:CG	10:q:70:GLN:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1:MET:HB3	1:r:29:VAL:CG1	2.39	0.52
1:3:238:ARG:CZ	1:9:251:ASP:OD2	2.57	0.52
1:4:260:LEU:HD13	1:t:234:ILE:HD11	1.90	0.52
1:5:1:MET:HE1	1:z:242:ILE:HG13	1.91	0.52
2:ZG:109:VAL:HG12	2:ZG:115:GLN:HA	1.91	0.52
2:ZK:170:PHE:HE2	2:ZK:223:PRO:HG2	1.74	0.52
2:ZU:159:ASN:N	2:ZU:274:ASN:OD1	2.32	0.52
2:ZY:17:LEU:HG	2:ZY:378:ALA:HB1	1.91	0.52
2:ZY:230:LEU:HD21	2:ZY:263:PHE:HD2	1.74	0.52
2:Za:287:GLY:N	2:Za:306:ASN:HD22	2.08	0.52
1:x:79:ARG:HH22	1:x:184:LEU:HB2	1.74	0.52
3:C:85:PRO:CG	5:I:241:GLN:HB3	2.39	0.52
5:G:74:LEU:HD22	5:G:235:LEU:HD22	1.91	0.52
7:Q:50:LYS:O	7:Q:54:VAL:HG22	2.09	0.52
7:T:106:ARG:NH2	10:p:241:GLU:CD	2.66	0.52
8:W:23:VAL:HG21	8:W:47:VAL:HG13	1.91	0.52
1:2:237:GLN:O	1:2:241:GLU:HG3	2.09	0.52
1:5:20:ASP:OD1	1:ZA:4:SER:N	2.42	0.52
1:8:227:ALA:HB1	2:ZJ:399:LEU:HD22	1.92	0.52
1:ZE:240:TYR:CE2	2:ZJ:399:LEU:HD11	2.44	0.52
2:ZJ:306:ASN:O	2:ZJ:307:GLU:HG2	2.10	0.52
2:ZN:212:THR:HG21	2:ZN:246:ILE:HD11	1.91	0.52
2:ZO:178:TYR:HA	2:ZO:201:VAL:HG12	1.92	0.52
2:ZP:208:TRP:NE1	2:ZP:268:GLN:OE1	2.36	0.52
2:ZQ:373:VAL:CG1	2:ZW:7:VAL:HG22	2.39	0.52
2:ZR:162:ASP:OD2	2:ZR:274:ASN:ND2	2.42	0.52
2:ZS:307:GLU:N	2:ZS:307:GLU:OE2	2.43	0.52
2:ZU:382:TYR:CZ	2:ZZ:395:ILE:HG23	2.44	0.52
2:ZZ:14:ALA:HB2	2:ZZ:382:TYR:HE2	1.73	0.52
3:A:37:ILE:CD1	3:B:44:ILE:HD11	2.35	0.52
5:G:205:MET:HE3	5:H:209:MET:HA	1.91	0.52
7:Q:29:ASN:ND2	7:Q:41:ARG:O	2.36	0.52
10:m:79:ASP:HB3	10:m:206:LEU:HD13	1.92	0.52
10:p:35:ARG:HH11	10:p:101:ARG:HG3	1.74	0.52
1:0:83:GLN:NE2	1:0:97:ILE:O	2.20	0.52
1:1:16:GLN:OE1	1:1:16:GLN:HA	2.10	0.52
1:2:236:VAL:O	1:2:237:GLN:C	2.53	0.52
1:4:85:ASN:HA	2:ZF:50:LEU:HD22	1.91	0.52
1:4:130:THR:OG1	1:4:131:ALA:N	2.42	0.52
1:ZA:76:ALA:HA	2:ZF:47:LYS:HZ3	1.71	0.52
1:ZC:98:LYS:HG3	1:ZC:98:LYS:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZG:208:TRP:NE1	2:ZG:268:GLN:OE1	2.40	0.52
2:ZJ:231:LYS:NZ	2:ZJ:239:GLU:OE1	2.38	0.52
2:ZK:103:ASP:OD1	2:ZK:107:ASN:N	2.40	0.52
2:ZO:268:GLN:NE2	2:ZU:190:GLN:HE22	2.07	0.52
2:ZP:380:ARG:NE	2:ZV:393:ASP:OD2	2.43	0.52
2:ZS:118:GLY:HA2	2:ZS:316:VAL:HG12	1.92	0.52
2:ZT:10:LEU:HD21	2:ZY:399:LEU:HD21	1.92	0.52
2:ZU:144:MET:HE3	2:ZU:306:ASN:HD21	1.73	0.52
2:ZW:210:VAL:O	2:ZW:227:SER:OG	2.23	0.52
2:Zg:85:LEU:HD13	2:Zg:114:MET:HB3	1.91	0.52
2:Zg:111:MET:HE2	2:Zg:111:MET:N	2.25	0.52
1:t:242:ILE:HD11	1:z:258:THR:HG22	1.92	0.52
1:u:185:GLU:HB3	1:u:193:ILE:HG13	1.92	0.52
5:I:40:LEU:HD22	7:T:8:ALA:HB3	1.92	0.52
1:1:42:GLU:HB3	1:1:75:VAL:HG21	1.91	0.52
1:ZB:57:SER:HA	1:v:154:ASP:HB2	1.92	0.52
2:ZN:102:LEU:O	2:ZS:322:ASN:ND2	2.43	0.52
2:ZO:2:SER:OG	2:ZO:3:PHE:N	2.37	0.52
2:ZP:104:GLU:HG2	2:ZU:338:GLN:O	2.09	0.52
2:ZY:125:PRO:HD2	2:ZY:125:PRO:O	2.08	0.52
1:u:260:LEU:HD21	10:p:234:ILE:CG2	2.40	0.52
1:w:12:LEU:HD13	10:q:214:VAL:HG13	1.92	0.52
1:y:257:LEU:CD2	10:n:214:VAL:HG22	2.38	0.52
3:D:54:LYS:HZ1	4:E:215:VAL:C	2.18	0.52
5:F:67:ILE:H	5:F:67:ILE:HD12	1.75	0.52
5:H:58:LEU:O	5:H:62:THR:OG1	2.23	0.52
7:U:41:ARG:HG3	8:Z:59:THR:HG21	1.92	0.52
10:m:102:ASN:HD22	10:m:116:GLN:HE21	1.57	0.52
1:2:151:ILE:HG12	1:2:157:VAL:HG22	1.91	0.52
1:2:227:ALA:HA	1:ZD:257:LEU:HD21	1.92	0.52
1:3:9:LYS:HE3	1:x:228:GLU:HG3	1.91	0.52
1:9:106:MET:HE2	1:9:137:GLN:HB2	1.91	0.52
1:ZB:31:THR:CG2	2:ZG:39:PHE:HB2	2.27	0.52
1:ZB:85:ASN:ND2	2:ZM:50:LEU:HG	2.24	0.52
2:ZN:102:LEU:O	2:ZS:322:ASN:HB2	2.09	0.52
2:ZT:281:GLN:NE2	2:ZT:283:GLY:O	2.35	0.52
2:ZW:93:PHE:HB3	2:ZW:333:VAL:HG13	1.92	0.52
2:ZY:188:ASP:OD1	2:ZY:194:HIS:NE2	2.39	0.52
2:Zf:317:LEU:HD21	2:Zf:356:LEU:HD11	1.91	0.52
1:s:197:SER:HA	10:n:109:PRO:CG	2.39	0.52
1:t:72:VAL:CG1	10:o:27:ALA:O	2.55	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:91:ASN:HB3	1:t:94:ASP:OD2	2.09	0.52
3:D:35:ILE:HG21	3:D:50:SER:HA	1.92	0.52
5:F:199:VAL:O	5:F:203:VAL:HG23	2.09	0.52
5:G:83:ALA:HB1	5:G:84:PRO:HD2	1.92	0.52
5:J:138:MET:HE2	5:J:170:LEU:HG	1.92	0.52
7:Q:78:VAL:HG21	8:V:54:ALA:HB3	1.92	0.52
8:Y:28:LEU:HD21	10:o:229:MET:HB3	1.92	0.52
1:2:242:ILE:HG22	1:x:26:LEU:HD13	1.92	0.52
1:3:42:GLU:OE1	1:y:189:GLU:HB3	2.10	0.52
1:5:43:ASP:OD1	1:5:43:ASP:N	2.43	0.52
1:ZB:25:ASN:HD21	1:ZB:37:GLN:H	1.57	0.52
1:ZB:56:SER:O	1:v:152:GLY:C	2.52	0.52
1:ZB:130:THR:HG22	1:ZB:131:ALA:H	1.75	0.52
1:ZE:237:GLN:HB2	2:ZJ:391:THR:HG23	1.92	0.52
2:ZH:268:GLN:HG2	2:ZN:190:GLN:OE1	2.10	0.52
2:ZJ:101:LYS:HB2	2:ZO:324:GLU:OE2	2.10	0.52
2:ZS:151:THR:OG1	2:ZS:282:ASN:ND2	2.43	0.52
2:ZY:18:ASP:HB3	2:Zd:5:GLN:HE22	1.74	0.52
1:t:195:THR:O	1:t:196:GLN:C	2.53	0.52
1:u:260:LEU:CD2	8:Y:106:MET:SD	2.99	0.52
1:x:257:LEU:CD2	10:m:213:PRO:HB2	2.40	0.52
3:C:4:GLU:C	3:C:6:VAL:N	2.67	0.52
3:C:40:ALA:CB	3:D:44:ILE:CD1	2.88	0.52
5:I:48:ILE:CD1	6:O:89:ARG:HH12	2.23	0.52
7:U:90:PRO:HD2	10:q:49:LEU:HD23	1.92	0.52
8:a:72:ALA:HB3	8:a:95:ASN:HD22	1.74	0.52
1:0:2:ILE:CG2	10:p:212:LYS:CA	2.82	0.51
1:6:210:GLY:O	1:6:211:ALA:C	2.53	0.51
1:ZA:40:VAL:HG23	1:ZA:75:VAL:HB	1.92	0.51
2:ZL:57:ILE:HD13	2:ZQ:47:LYS:CB	2.39	0.51
2:ZQ:30:TYR:HD1	2:ZQ:363:ALA:HA	1.75	0.51
2:ZQ:183:THR:OG1	2:Zb:131:GLY:O	2.28	0.51
2:ZQ:200:PHE:HE2	2:ZQ:263:PHE:HE2	1.57	0.51
2:ZQ:331:ASP:N	2:ZV:41:ASP:O	2.26	0.51
2:ZT:165:PRO:HG2	2:ZT:201:VAL:HG13	1.92	0.51
2:Za:234:GLU:O	2:Zg:190:GLN:HG3	2.09	0.51
1:t:35:LYS:HD2	1:t:81:HIS:HA	1.91	0.51
1:u:62:LEU:HG	8:Z:84:LEU:HD23	1.91	0.51
1:w:107:LEU:HD12	1:w:111:THR:HG23	1.92	0.51
1:y:116:ARG:NH2	1:y:220:GLU:OE1	2.42	0.51
4:E:130:ASP:O	4:E:134:MET:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:52:THR:HG22	6:L:91:LYS:HE2	1.91	0.51
5:G:193:PHE:HB3	5:G:222:LYS:HD3	1.92	0.51
8:W:106:MET:HE3	10:n:238:ASP:HB2	1.92	0.51
9:j:325:GLU:OE1	9:j:325:GLU:N	2.42	0.51
10:o:123:GLU:HG3	10:o:160:ARG:HB3	1.90	0.51
10:q:35:ARG:O	10:q:173:ARG:NH2	2.43	0.51
1:0:86:LEU:HD12	1:ZB:44:LEU:HD22	1.92	0.51
1:4:7:ILE:HG23	1:4:71:GLY:HA2	1.92	0.51
1:ZC:128:LEU:HD12	1:ZC:140:ILE:HB	1.92	0.51
1:ZE:128:LEU:HD13	1:ZE:140:ILE:HB	1.92	0.51
1:ZE:238:ARG:NH1	1:ZE:241:GLU:OE1	2.43	0.51
2:ZI:75:VAL:O	2:ZI:98:GLY:HA3	2.10	0.51
2:Za:116:LEU:HD21	2:Za:315:ILE:HD13	1.92	0.51
2:Zb:95:SER:HB2	2:Zb:333:VAL:HG22	1.92	0.51
2:Zf:397:ASN:O	2:Zf:400:VAL:N	2.43	0.51
1:u:66:LEU:HD11	10:p:59:ALA:CB	2.40	0.51
1:v:98:LYS:HG3	1:v:215:TYR:HE2	1.76	0.51
1:v:242:ILE:HG12	10:q:26:LEU:HD21	1.92	0.51
1:y:129:VAL:HG12	1:y:135:GLN:HA	1.91	0.51
1:y:205:THR:OG1	1:y:208:LEU:HB2	2.11	0.51
1:z:6:TRP:CZ3	10:o:208:GLY:HA3	2.44	0.51
3:C:13:ALA:HB1	5:I:195:ILE:HD11	1.93	0.51
8:Z:113:GLN:CB	10:p:243:ARG:NH2	2.73	0.51
1:4:56:SER:C	10:o:138:ALA:CB	2.70	0.51
2:ZI:154:MET:HG3	2:ZI:279:THR:HG22	1.91	0.51
2:ZI:367:ASP:O	2:ZI:371:GLU:HG2	2.10	0.51
2:ZO:157:ASN:HD22	2:ZU:143:LEU:CD2	2.23	0.51
2:ZO:199:TYR:O	2:ZO:210:VAL:HA	2.11	0.51
2:ZU:156:ILE:HG13	2:ZU:276:ILE:HA	1.91	0.51
2:ZV:211:TYR:CE2	2:ZV:226:ALA:HA	2.45	0.51
2:ZW:210:VAL:HB	2:ZW:228:THR:HG22	1.93	0.51
2:ZX:290:VAL:HA	2:Zc:352:ASN:ND2	2.26	0.51
2:Zg:317:LEU:HD11	2:Zg:356:LEU:HD21	1.92	0.51
1:u:46:TYR:OH	10:p:34:PHE:CE1	2.63	0.51
6:K:89:ARG:HH12	6:P:104:VAL:HG22	1.76	0.51
7:U:91:ASP:O	10:q:50:SER:HB3	2.10	0.51
1:1:260:LEU:HD21	10:q:221:ILE:HD11	1.92	0.51
1:9:46:TYR:HA	1:9:69:GLY:HA2	1.92	0.51
1:9:155:GLY:HA2	1:9:214:LEU:HD12	1.92	0.51
1:ZA:167:PRO:HD3	2:ZL:338:GLN:HB3	1.93	0.51
1:ZC:34:PHE:HB3	1:ZC:222:SER:HB3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZD:151:ILE:HG23	1:ZD:157:VAL:HG22	1.93	0.51
1:ZE:57:SER:HA	1:y:154:ASP:HB3	1.92	0.51
2:ZG:264:LEU:HD12	2:ZG:265:ASN:H	1.75	0.51
2:ZH:112:GLN:HG2	2:ZH:331:ASP:HB3	1.93	0.51
2:ZZ:210:VAL:HB	2:ZZ:228:THR:HG22	1.91	0.51
2:Zd:180:LYS:HB3	2:Zd:200:PHE:HB2	1.91	0.51
2:Zh:3:PHE:O	2:Zh:7:VAL:HG23	2.11	0.51
1:t:72:VAL:HG12	10:o:27:ALA:HB1	1.92	0.51
1:x:3:SER:CB	10:m:70:GLN:CG	2.89	0.51
1:y:4:SER:HB2	1:y:250:THR:CG2	2.40	0.51
1:z:21:VAL:HG21	1:z:39:ALA:HB2	1.91	0.51
3:C:77:VAL:HG12	5:I:229:VAL:HG11	1.91	0.51
8:Y:20:ARG:NH2	8:Y:107:SER:HB2	2.24	0.51
1:0:251:ASP:OD1	1:u:238:ARG:NE	2.43	0.51
1:4:50:ARG:NH1	1:z:75:VAL:HG13	2.26	0.51
1:4:121:GLN:NE2	1:9:78:GLU:OE1	2.43	0.51
1:5:9:LYS:HE3	1:z:228:GLU:HG3	1.92	0.51
1:5:49:ILE:HG22	1:5:50:ARG:HG3	1.93	0.51
2:ZF:162:ASP:OD2	2:ZF:274:ASN:ND2	2.30	0.51
2:ZH:235:ASN:OD1	2:ZN:189:SER:OG	2.26	0.51
2:ZK:322:ASN:OD1	2:ZK:325:GLY:N	2.43	0.51
2:ZP:139:ILE:HA	2:ZP:312:LEU:HD13	1.91	0.51
2:ZP:331:ASP:HA	2:ZU:40:ALA:HB1	1.91	0.51
2:ZU:183:THR:HB	2:Zf:132:ALA:CA	2.32	0.51
3:C:6:VAL:HG22	5:I:187:PHE:HZ	1.75	0.51
7:U:91:ASP:OD2	8:a:19:LYS:HE2	2.11	0.51
8:V:131:THR:O	8:V:131:THR:HG22	2.09	0.51
8:Y:119:LEU:HD23	10:o:247:LEU:HD13	1.92	0.51
8:Z:23:VAL:HG21	8:Z:47:VAL:HG13	1.91	0.51
10:p:135:ILE:HG23	10:p:143:ILE:HG23	1.92	0.51
1:0:9:LYS:HZ3	10:p:72:ASP:HA	1.76	0.51
1:2:218:TYR:OH	1:ZD:73:ARG:HG3	2.11	0.51
1:4:231:VAL:HG11	1:ZA:9:LYS:CG	2.41	0.51
1:7:244:SER:HB2	1:ZC:260:LEU:HD21	1.92	0.51
1:ZE:240:TYR:CE2	2:ZJ:399:LEU:CD1	2.93	0.51
2:ZL:27:SER:O	2:ZL:364:SER:OG	2.27	0.51
2:ZL:93:PHE:CD2	2:ZL:114:MET:HE1	2.45	0.51
2:ZM:206:ASN:ND2	2:ZM:233:ASN:O	2.44	0.51
2:ZS:5:GLN:HG3	2:ZS:50:LEU:O	2.11	0.51
2:ZT:188:ASP:HA	2:ZT:257:ALA:HB2	1.93	0.51
2:ZU:150:THR:HG23	2:ZU:151:THR:HG23	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZU:270:ASN:OD1	2:Za:191:GLY:HA3	2.11	0.51
2:ZV:18:ASP:HB3	2:Za:5:GLN:HE22	1.75	0.51
2:ZZ:204:LYS:HG3	2:ZZ:205:ASP:H	1.76	0.51
2:Za:112:GLN:NE2	2:Za:331:ASP:O	2.43	0.51
2:Zg:95:SER:OG	2:Zg:332:ASN:O	2.19	0.51
1:r:62:LEU:HD23	8:W:83:PRO:HG2	1.92	0.51
1:s:79:ARG:NH2	1:s:186:SER:OG	2.44	0.51
1:y:257:LEU:HD22	10:n:214:VAL:CG2	2.40	0.51
4:E:24:LEU:HB3	6:K:89:ARG:NH2	2.26	0.51
4:E:88:MET:HG2	4:E:146:LEU:HD11	1.93	0.51
5:I:73:LEU:HD13	5:I:186:GLY:HA3	1.92	0.51
8:V:22:ASN:HB2	9:b:315:ALA:CB	2.35	0.51
1:4:56:SER:HA	10:o:138:ALA:CB	2.41	0.51
1:4:151:ILE:HG12	1:4:157:VAL:HG22	1.93	0.51
1:ZC:122:VAL:O	2:ZH:322:ASN:ND2	2.43	0.51
1:ZE:115:THR:HB	1:ZE:191:LEU:HD23	1.93	0.51
2:ZL:355:LYS:HZ1	2:ZR:89:ASN:HD21	1.59	0.51
2:ZM:80:ASN:OD1	2:ZM:81:GLY:N	2.43	0.51
2:ZO:129:GLN:O	2:ZO:129:GLN:HG3	2.11	0.51
2:ZR:200:PHE:HE2	2:ZR:263:PHE:HE1	1.58	0.51
2:ZS:180:LYS:HB2	2:ZS:274:ASN:HD22	1.76	0.51
2:Za:332:ASN:N	2:Zf:41:ASP:OD1	2.33	0.51
2:Za:376:ILE:CG2	2:Zg:393:ASP:OD2	2.59	0.51
2:Zb:86:VAL:HG13	2:Zb:115:GLN:HB2	1.92	0.51
2:Zc:146:ALA:HB2	2:Zc:286:PRO:HD3	1.92	0.51
2:Zf:139:ILE:HA	2:Zf:312:LEU:HD13	1.91	0.51
6:O:59:PHE:CD2	7:T:118:MET:HE2	2.46	0.51
6:P:83:GLN:HG3	8:V:127:LEU:HD11	1.92	0.51
9:g:320:PRO:HG2	10:o:58:THR:OG1	2.10	0.51
10:n:172:GLN:HB2	10:n:182:THR:HG22	1.93	0.51
2:ZP:24:ILE:HG22	2:ZU:385:ASN:OD1	2.10	0.51
2:ZQ:104:GLU:OE2	2:ZV:339:ALA:HA	2.11	0.51
2:ZQ:367:ASP:O	2:ZQ:371:GLU:HG2	2.10	0.51
2:ZS:93:PHE:HB3	2:ZS:333:VAL:HG13	1.93	0.51
2:ZS:102:LEU:HD21	2:ZS:106:ARG:HD3	1.93	0.51
2:ZV:65:THR:HG21	2:Zg:4:SER:CB	2.40	0.51
1:t:155:GLY:O	1:t:172:GLN:HA	2.11	0.51
1:w:9:LYS:C	1:w:11:GLY:N	2.68	0.51
5:H:40:LEU:HG	7:S:130:MET:HE1	1.93	0.51
5:H:48:ILE:CD1	7:S:134:LEU:HD23	2.40	0.51
5:J:66:ARG:HB2	5:J:182:ALA:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:57:GLU:HB2	7:U:11:PHE:CE2	2.46	0.51
8:W:7:PHE:HZ	8:W:123:LYS:HB2	1.76	0.51
10:n:89:VAL:HG12	10:n:121:ILE:HB	1.91	0.51
1:2:254:LEU:HD13	1:w:238:ARG:HG3	1.93	0.51
1:5:7:ILE:HG23	1:5:71:GLY:HA2	1.92	0.51
1:6:106:MET:HE3	1:6:137:GLN:HG3	1.93	0.51
1:6:115:THR:HB	1:6:191:LEU:HD23	1.93	0.51
1:7:1:MET:HB3	1:w:29:VAL:HG11	1.91	0.51
1:7:37:GLN:HB3	1:7:77:THR:HG22	1.93	0.51
1:8:57:SER:OG	1:s:154:ASP:CG	2.54	0.51
1:8:194:GLU:OE1	1:8:201:PRO:HD3	2.10	0.51
1:ZD:42:GLU:OE2	1:ZD:73:ARG:NE	2.35	0.51
1:ZE:77:THR:OG1	2:ZJ:47:LYS:HA	2.10	0.51
2:ZF:139:ILE:HG12	2:ZF:312:LEU:HD22	1.92	0.51
2:ZG:157:ASN:ND2	2:ZM:143:LEU:HD13	2.26	0.51
2:ZM:203:THR:OG1	2:ZM:207:GLU:OE1	2.23	0.51
2:ZN:17:LEU:HD13	2:ZS:395:ILE:HD11	1.93	0.51
2:ZO:102:LEU:HD21	2:ZO:106:ARG:HD2	1.93	0.51
2:ZQ:71:ARG:HG2	2:ZQ:73:LEU:H	1.76	0.51
2:ZT:18:ASP:O	2:ZY:5:GLN:OE1	2.27	0.51
2:ZU:33:LYS:NZ	2:ZU:362:GLU:OE1	2.41	0.51
2:ZV:211:TYR:HE2	2:ZV:226:ALA:HA	1.75	0.51
2:ZV:269:GLN:CB	2:Zb:286:PRO:HG2	2.40	0.51
2:Za:109:VAL:HG12	2:Za:115:GLN:HA	1.92	0.51
2:Zd:349:GLY:HA3	2:Zd:355:LYS:HD3	1.92	0.51
2:Zh:284:TYR:HB2	2:Zh:306:ASN:HD22	1.76	0.51
2:Zh:392:GLN:HA	2:Zh:395:ILE:HG22	1.93	0.51
1:r:260:LEU:CD1	10:m:235:THR:OG1	2.59	0.51
1:0:120:PHE:HB3	1:0:128:LEU:HD22	1.92	0.51
1:4:184:LEU:HB3	1:4:192:TYR:HB3	1.93	0.51
1:6:35:LYS:NZ	1:6:220:GLU:OE2	2.39	0.51
1:6:137:GLN:HA	1:6:138:PRO:O	2.11	0.51
1:8:42:GLU:CB	1:8:75:VAL:HG23	2.40	0.51
1:9:85:ASN:HB3	2:ZK:4:SER:HB3	1.93	0.51
1:ZC:174:ASN:ND2	1:ZC:203:GLU:OE2	2.42	0.51
2:ZG:30:TYR:HD1	2:ZG:363:ALA:HA	1.75	0.51
2:ZG:390:LYS:HG2	2:ZG:394:GLN:HE21	1.76	0.51
2:ZJ:34:SER:HB3	2:ZJ:366:VAL:HG22	1.92	0.51
2:ZJ:109:VAL:HG12	2:ZJ:115:GLN:HG3	1.93	0.51
2:ZR:114:MET:HE1	2:ZR:333:VAL:HG11	1.93	0.51
2:ZV:184:VAL:HG13	2:ZV:196:MET:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Za:41:ASP:N	2:Za:41:ASP:OD1	2.44	0.51
2:Zc:188:ASP:OD1	2:Zc:192:ASN:N	2.44	0.51
1:u:241:GLU:HG2	1:z:256:LYS:HG2	1.94	0.51
3:D:89:GLY:O	5:J:143:ARG:NE	2.44	0.51
5:H:38:TRP:HA	6:N:46:SER:OG	2.11	0.51
5:J:38:TRP:HZ2	6:P:39:HIS:CD2	2.29	0.51
7:S:128:LYS:CE	8:X:134:GLN:HE21	2.24	0.51
1:0:185:GLU:HB3	1:0:193:ILE:HG13	1.93	0.50
1:3:122:VAL:O	1:8:180:ASN:ND2	2.42	0.50
1:4:73:ARG:HH22	1:9:50:ARG:HH12	1.59	0.50
1:ZA:50:ARG:CB	1:ZA:66:LEU:H	2.23	0.50
2:ZK:27:SER:HA	2:ZK:366:VAL:HG21	1.93	0.50
2:ZK:348:ALA:HB2	2:ZK:356:LEU:HD13	1.94	0.50
2:ZO:373:VAL:O	2:ZO:374:ASN:C	2.54	0.50
1:t:72:VAL:HB	10:o:28:ASN:CG	2.36	0.50
1:t:260:LEU:HD22	10:o:231:MET:CE	2.40	0.50
3:D:58:VAL:O	3:D:62:ILE:HD12	2.11	0.50
5:I:204:LEU:HD11	5:I:217:ILE:HD12	1.93	0.50
8:V:103:VAL:HG21	10:m:9:MET:CB	2.41	0.50
9:g:320:PRO:C	9:h:328:ILE:HD11	2.35	0.50
1:0:6:TRP:CE3	10:p:72:ASP:HB3	2.46	0.50
1:0:242:ILE:HG21	1:v:26:LEU:HD22	1.92	0.50
1:1:142:ILE:HD11	1:1:149:ILE:HD12	1.93	0.50
1:3:180:ASN:OD1	1:3:182:THR:OG1	2.24	0.50
1:7:17:THR:O	1:7:18:ASN:C	2.54	0.50
1:7:54:ALA:O	1:7:55:GLN:C	2.54	0.50
1:ZB:104:GLN:HG2	1:ZB:137:GLN:HB3	1.93	0.50
1:ZB:175:LEU:HD21	1:ZB:214:LEU:HD21	1.93	0.50
1:ZC:167:PRO:HG2	2:ZN:338:GLN:HB2	1.93	0.50
2:ZM:17:LEU:HD13	2:ZR:395:ILE:HD11	1.92	0.50
2:ZM:144:MET:HE3	2:ZM:306:ASN:HD21	1.76	0.50
2:ZS:139:ILE:HA	2:ZS:312:LEU:HD23	1.93	0.50
2:ZV:95:SER:OG	2:ZV:333:VAL:HG23	2.11	0.50
2:ZW:17:LEU:CD1	2:Zb:395:ILE:HD11	2.41	0.50
2:Zc:382:TYR:CE2	2:Zh:395:ILE:HD11	2.46	0.50
2:Zd:317:LEU:HD11	2:Zd:356:LEU:HD21	1.92	0.50
2:Zf:314:GLN:NE2	2:Zf:347:THR:OG1	2.44	0.50
2:Zf:381:ASN:O	2:Zf:385:ASN:ND2	2.44	0.50
2:Zg:83:PHE:HB2	2:Zg:95:SER:O	2.11	0.50
1:r:242:ILE:HG23	10:m:26:LEU:CD1	2.33	0.50
1:x:2:ILE:HG23	1:x:254:LEU:HD11	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:75:ARG:NH2	5:G:84:PRO:O	2.44	0.50
6:O:86:ILE:HD11	7:T:133:VAL:HG22	1.92	0.50
8:W:37:PRO:HA	9:d:328:ILE:O	2.11	0.50
8:X:4:LEU:HD13	8:X:126:MET:HE1	1.92	0.50
1:1:248:SER:O	1:1:252:GLN:HG3	2.11	0.50
1:ZB:5:LEU:O	1:ZB:9:LYS:HG3	2.11	0.50
1:ZD:137:GLN:HA	1:ZD:139:ALA:N	2.23	0.50
2:ZI:17:LEU:HD13	2:ZN:395:ILE:CD1	2.40	0.50
2:ZM:374:ASN:O	2:ZM:377:VAL:N	2.43	0.50
2:ZP:22:ASN:N	2:ZU:5:GLN:NE2	2.59	0.50
2:ZQ:268:GLN:HG2	2:ZW:190:GLN:NE2	2.26	0.50
2:ZU:157:ASN:ND2	2:Za:143:LEU:CD2	2.74	0.50
1:r:82:SER:OG	1:r:223:ASN:ND2	2.36	0.50
1:s:20:ASP:OD1	1:x:4:SER:OG	2.28	0.50
1:u:260:LEU:HD11	10:p:234:ILE:CG2	2.41	0.50
1:v:176:THR:HA	1:v:203:GLU:HA	1.93	0.50
1:x:258:THR:HA	10:m:217:MET:HE2	1.94	0.50
5:J:143:ARG:NE	5:J:180:LYS:HE2	2.27	0.50
8:X:102:MET:SD	10:n:229:MET:HG2	2.51	0.50
9:h:322:PRO:CD	10:o:49:LEU:HG	2.41	0.50
1:0:231:VAL:O	1:0:235:GLN:HG3	2.12	0.50
1:1:44:LEU:HD13	10:q:71:LEU:HD12	1.93	0.50
1:4:32:ASN:HD21	1:9:38:ARG:NH2	2.10	0.50
1:4:108:PRO:HG2	1:y:153:ARG:HH21	1.76	0.50
1:4:255:GLN:HE21	1:4:259:GLN:NE2	2.10	0.50
1:7:164:GLN:HE22	1:7:166:ALA:HB3	1.76	0.50
1:ZA:235:GLN:NE2	2:ZG:3:PHE:CG	2.79	0.50
1:ZB:56:SER:C	1:v:153:ARG:H	2.19	0.50
1:ZB:151:ILE:HG23	1:ZB:157:VAL:HG22	1.93	0.50
2:ZF:157:ASN:HD22	2:ZL:143:LEU:HD13	1.76	0.50
2:ZK:248:THR:HG1	2:ZK:257:ALA:N	2.09	0.50
2:ZO:380:ARG:HD2	2:ZU:396:LEU:HB3	1.93	0.50
2:ZX:387:GLN:HG3	2:Zd:400:VAL:HB	1.93	0.50
2:Zb:322:ASN:OD1	2:Zb:325:GLY:N	2.45	0.50
2:Ze:362:GLU:OE1	2:Ze:362:GLU:N	2.38	0.50
2:Zf:319:ASN:OD1	2:Zf:320:PHE:N	2.44	0.50
1:r:47:GLN:HE22	8:V:73:PRO:CB	2.24	0.50
1:w:257:LEU:HD23	10:q:229:MET:CE	2.39	0.50
1:y:70:THR:HG21	10:n:71:LEU:CD2	2.35	0.50
5:F:232:TRP:NE1	5:F:236:MET:HE3	2.27	0.50
5:J:167:MET:HG3	5:J:171:LEU:HG	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U:46:ALA:O	7:U:50:LYS:HG2	2.11	0.50
8:W:54:ALA:HB3	8:W:55:PRO:HD3	1.93	0.50
1:0:6:TRP:CZ2	1:u:235:GLN:NE2	2.78	0.50
1:ZC:88:GLN:HE21	2:ZN:53:LYS:HB2	1.74	0.50
2:ZG:300:VAL:HG13	2:ZG:312:LEU:HB2	1.93	0.50
2:ZH:319:ASN:HB2	2:ZH:353:PHE:CE1	2.47	0.50
2:ZN:233:ASN:HD21	2:ZN:237:ILE:HB	1.77	0.50
2:ZU:183:THR:OG1	2:Zf:132:ALA:HA	2.10	0.50
2:ZV:314:GLN:NE2	2:ZV:347:THR:OG1	2.44	0.50
2:Zb:109:VAL:HG12	2:Zb:115:GLN:HA	1.92	0.50
2:Zc:382:TYR:CZ	2:Zh:395:ILE:HD11	2.47	0.50
1:t:142:ILE:HG21	1:t:149:ILE:HG12	1.93	0.50
4:E:205:ASN:HB3	5:F:209:MET:HG3	1.92	0.50
5:I:59:LEU:O	5:I:65:THR:OG1	2.28	0.50
5:J:84:PRO:O	5:J:85:PRO:C	2.54	0.50
1:0:19:MET:HB2	1:0:236:VAL:HG11	1.94	0.50
1:0:150:THR:OG1	1:0:158:SER:OG	2.29	0.50
1:3:180:ASN:HB3	1:3:198:SER:HA	1.93	0.50
1:5:56:SER:H	1:5:61:THR:HA	1.77	0.50
1:ZB:240:TYR:CE2	2:ZG:399:LEU:HD11	2.47	0.50
1:ZE:59:GLN:HG2	1:ZE:60:THR:HG23	1.92	0.50
2:ZF:99:GLN:HG2	2:ZF:111:MET:HE2	1.93	0.50
2:ZG:160:SER:HA	2:ZG:268:GLN:HE21	1.76	0.50
2:ZH:84:ARG:HD2	2:ZH:345:LEU:HD21	1.93	0.50
2:ZP:6:ALA:HB1	2:ZP:389:ILE:HG13	1.94	0.50
2:ZQ:74:ASP:HB3	2:ZQ:361:LEU:HG	1.93	0.50
2:ZW:269:GLN:OE1	2:Zc:286:PRO:CG	2.60	0.50
2:Za:102:LEU:O	2:Zf:322:ASN:CB	2.58	0.50
1:t:260:LEU:HD12	10:o:235:THR:OG1	2.10	0.50
1:y:2:ILE:HG13	1:y:254:LEU:HD21	1.93	0.50
6:P:55:GLN:HG2	6:P:71:VAL:HG22	1.94	0.50
7:S:92:GLN:NE2	8:Y:22:ASN:HD22	2.09	0.50
10:q:101:ARG:NH1	10:q:207:GLU:OE1	2.45	0.50
1:0:163:GLY:HA2	1:ZB:111:THR:HG21	1.93	0.50
1:3:45:LEU:HD22	1:s:98:LYS:HG3	1.93	0.50
1:5:5:LEU:HD21	1:z:234:ILE:HG22	1.93	0.50
1:5:173:LEU:HD23	1:5:214:LEU:HD13	1.93	0.50
1:5:235:GLN:HG3	1:ZB:5:LEU:CD2	2.41	0.50
1:ZA:218:TYR:OH	2:ZL:53:LYS:HB2	2.11	0.50
1:ZC:231:VAL:HG11	2:ZI:7:VAL:HG22	1.94	0.50
2:ZL:42:MET:HG2	2:ZL:53:LYS:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZM:165:PRO:HG2	2:ZM:201:VAL:HG13	1.92	0.50
2:ZT:337:THR:OG1	2:ZT:338:GLN:N	2.44	0.50
2:ZU:379:GLN:NE2	2:ZZ:391:THR:HA	2.25	0.50
2:Za:102:LEU:O	2:Zf:322:ASN:CG	2.55	0.50
2:Zh:77:ILE:HD13	2:Zh:96:ARG:HD2	1.92	0.50
1:t:260:LEU:HD22	10:o:231:MET:HE1	1.93	0.50
1:u:164:GLN:C	1:u:166:ALA:H	2.19	0.50
6:O:83:GLN:HG3	7:U:131:MET:SD	2.52	0.50
7:S:91:ASP:O	10:o:50:SER:HB3	2.12	0.50
8:X:68:ILE:HD11	9:g:312:VAL:HG22	1.93	0.50
8:Z:19:LYS:HD2	10:p:51:LEU:HD12	1.94	0.50
8:Z:118:VAL:HG23	10:q:248:LEU:HD13	1.93	0.50
10:p:129:VAL:HG11	10:p:135:ILE:HD11	1.93	0.50
1:2:70:THR:HG22	1:2:71:GLY:H	1.77	0.50
1:3:31:THR:HG22	1:8:41:PHE:C	2.37	0.50
1:3:151:ILE:HG12	1:3:157:VAL:HG22	1.93	0.50
1:9:175:LEU:HD13	1:9:206:PRO:HG3	1.93	0.50
1:ZC:10:THR:HG23	1:ZC:71:GLY:HA3	1.94	0.50
1:ZD:40:VAL:HG23	1:ZD:75:VAL:HB	1.94	0.50
2:ZG:107:ASN:HD22	2:ZG:138:THR:HG22	1.77	0.50
2:ZH:210:VAL:O	2:ZH:227:SER:N	2.45	0.50
2:ZI:374:ASN:O	2:ZI:375:MET:C	2.54	0.50
2:ZJ:171:SER:O	2:ZJ:177:SER:OG	2.28	0.50
2:ZP:234:GLU:OE1	2:ZV:255:THR:N	2.42	0.50
2:ZS:116:LEU:HD21	2:ZS:315:ILE:HD13	1.94	0.50
2:ZT:196:MET:SD	2:ZT:248:THR:HG22	2.51	0.50
2:ZW:18:ASP:HB3	2:Zb:5:GLN:HE22	1.75	0.50
2:Za:106:ARG:NH1	2:Zf:321:ALA:CB	2.75	0.50
2:Zb:293:GLN:NE2	2:Zb:303:ASN:OD1	2.45	0.50
2:Zd:389:ILE:O	2:Zd:390:LYS:C	2.55	0.50
2:Zg:144:MET:HE2	2:Zg:310:GLN:HE21	1.76	0.50
1:x:70:THR:HG21	10:m:71:LEU:HG	1.94	0.50
1:x:184:LEU:HB3	1:x:192:TYR:HB3	1.94	0.50
6:K:80:VAL:HG11	7:Q:5:LEU:HD11	1.93	0.50
6:L:55:GLN:HG2	6:L:71:VAL:HG22	1.94	0.50
7:Q:133:VAL:C	7:Q:135:GLN:H	2.19	0.50
8:W:103:VAL:CG2	10:n:9:MET:HG3	2.40	0.50
8:W:118:VAL:HG23	10:n:248:LEU:HD13	1.92	0.50
1:1:180:ASN:ND2	1:w:122:VAL:O	2.45	0.50
1:2:58:GLU:CG	10:m:160:ARG:HH11	2.11	0.50
1:3:31:THR:HG22	1:8:41:PHE:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:1:MET:HA	1:u:29:VAL:HG22	1.94	0.50
1:5:20:ASP:OD1	1:ZA:4:SER:HB3	2.12	0.50
1:5:111:THR:HG21	1:u:163:GLY:HA2	1.93	0.50
1:7:1:MET:HB3	1:w:29:VAL:CG1	2.42	0.50
1:7:52:PRO:HB3	1:7:65:GLY:H	1.77	0.50
2:ZF:52:VAL:HG22	2:ZF:53:LYS:N	2.27	0.50
2:ZH:175:ALA:HA	2:ZH:178:TYR:CZ	2.47	0.50
2:ZQ:157:ASN:HD21	2:ZW:143:LEU:HD23	1.77	0.50
2:ZT:233:ASN:HD21	2:ZT:237:ILE:HB	1.77	0.50
2:Zb:114:MET:HE1	2:Zb:333:VAL:HG11	1.94	0.50
2:Zb:154:MET:HE3	2:Zb:156:ILE:HB	1.93	0.50
1:u:36:ARG:NH2	1:u:229:GLU:OE2	2.45	0.50
5:F:224:MET:O	5:F:228:LEU:HB2	2.12	0.50
5:G:82:SER:HA	6:K:103:GLN:HE21	1.77	0.50
6:O:53:ARG:O	6:O:57:GLU:HG2	2.11	0.50
7:Q:17:ASN:HD22	7:Q:57:ARG:NH1	2.10	0.50
8:Y:106:MET:O	8:Y:110:ARG:HG2	2.12	0.50
8:a:22:ASN:HD21	10:q:54:ARG:NH1	2.10	0.50
1:0:51:GLN:NE2	1:0:65:GLY:HA3	2.27	0.49
1:2:231:VAL:HG11	1:8:9:LYS:CG	2.39	0.49
1:5:205:THR:HB	1:5:208:LEU:HD23	1.94	0.49
1:ZE:93:LYS:NZ	1:ZE:122:VAL:HG23	2.27	0.49
2:ZO:65:THR:HG22	2:ZZ:50:LEU:HD22	1.93	0.49
2:ZP:96:ARG:NH2	2:ZP:362:GLU:OE2	2.39	0.49
2:ZQ:156:ILE:HG22	2:ZQ:276:ILE:HG23	1.93	0.49
2:Za:348:ALA:HB1	2:Za:355:LYS:HA	1.94	0.49
2:Zb:288:ASP:O	2:Zb:305:SER:N	2.45	0.49
1:x:44:LEU:CD2	10:m:202:MET:SD	3.00	0.49
3:B:9:MET:O	3:B:12:GLU:HG2	2.12	0.49
4:E:229:MET:O	4:E:233:MET:HG2	2.12	0.49
5:F:143:ARG:HH21	5:F:180:LYS:HB3	1.77	0.49
5:J:64:PHE:CE1	5:J:94:LEU:HD22	2.47	0.49
7:S:128:LYS:HE2	8:X:134:GLN:HE21	1.76	0.49
1:4:126:GLY:CA	1:9:179:MET:HE3	2.42	0.49
1:5:241:GLU:HB3	1:ZB:258:THR:HG21	1.94	0.49
1:8:34:PHE:HB3	1:8:222:SER:HB3	1.94	0.49
1:ZB:31:THR:HG22	2:ZG:39:PHE:HB3	1.89	0.49
2:ZI:373:VAL:HG23	2:ZT:399:LEU:CD2	2.42	0.49
2:ZJ:237:ILE:H	2:ZJ:237:ILE:HD12	1.77	0.49
2:ZL:379:GLN:HG3	2:ZQ:391:THR:HG23	1.94	0.49
2:ZO:268:GLN:OE1	2:ZU:190:GLN:NE2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZT:379:GLN:NE2	2:ZY:394:GLN:HB2	2.27	0.49
2:ZU:285:LYS:O	2:ZU:306:ASN:ND2	2.42	0.49
2:ZX:208:TRP:NE1	2:ZX:268:GLN:OE1	2.36	0.49
2:ZY:150:THR:OG1	2:ZY:282:ASN:ND2	2.35	0.49
2:Zc:382:TYR:CD1	2:Zh:395:ILE:CD1	2.95	0.49
1:v:2:ILE:HD11	8:Z:32:ASP:OD1	2.08	0.49
1:y:17:THR:C	1:y:19:MET:N	2.69	0.49
3:A:74:LEU:C	3:A:76:TYR:N	2.68	0.49
3:D:2:THR:HG23	3:D:5:SER:H	1.76	0.49
3:D:11:THR:O	3:D:15:LYS:HG3	2.11	0.49
3:D:81:PHE:CZ	5:J:189:ILE:HD13	2.47	0.49
5:F:101:MET:HE1	5:F:137:PHE:CZ	2.47	0.49
5:F:211:MET:SD	5:G:211:MET:HE3	2.53	0.49
5:H:105:ILE:HG22	6:M:32:VAL:HB	1.94	0.49
1:4:73:ARG:HH12	1:9:50:ARG:NH1	2.11	0.49
1:9:252:GLN:O	1:9:256:LYS:HG2	2.12	0.49
1:ZA:50:ARG:HB2	1:ZA:66:LEU:CB	2.41	0.49
1:ZA:56:SER:O	1:u:153:ARG:N	2.45	0.49
1:ZC:77:THR:O	1:ZC:77:THR:OG1	2.28	0.49
2:ZL:30:TYR:HD1	2:ZL:363:ALA:HA	1.77	0.49
2:ZN:139:ILE:HA	2:ZN:312:LEU:HD22	1.93	0.49
2:ZQ:160:SER:O	2:ZW:252:ASN:ND2	2.45	0.49
2:ZS:322:ASN:OD1	2:ZS:325:GLY:N	2.45	0.49
2:ZV:269:GLN:HB3	2:Zb:286:PRO:HG2	1.94	0.49
2:ZV:270:ASN:OD1	2:Zb:285:LYS:NZ	2.30	0.49
2:ZX:195:ASP:OD2	2:ZX:216:SER:OG	2.31	0.49
2:ZZ:208:TRP:NE1	2:ZZ:268:GLN:OE1	2.38	0.49
2:Za:24:ILE:HD13	2:Zf:384:SER:HG	1.76	0.49
2:Zh:391:THR:O	2:Zh:395:ILE:HG22	2.12	0.49
1:r:122:VAL:O	1:w:180:ASN:ND2	2.45	0.49
1:t:129:VAL:HG12	1:t:135:GLN:HA	1.93	0.49
1:u:189:GLU:O	1:u:191:LEU:HG	2.11	0.49
3:B:85:PRO:HB3	5:H:242:SER:CA	2.43	0.49
5:G:48:ILE:CD1	7:R:134:LEU:HD23	2.43	0.49
6:N:99:VAL:O	6:N:102:MET:HG2	2.13	0.49
6:O:84:MET:O	6:O:88:VAL:HG23	2.12	0.49
7:R:87:TYR:CE2	9:f:320:PRO:HB3	2.47	0.49
8:W:86:ASP:OD1	8:W:86:ASP:N	2.41	0.49
8:Y:102:MET:CE	10:o:229:MET:HA	2.41	0.49
1:1:194:GLU:O	10:q:152:PRO:HG2	2.12	0.49
1:6:46:TYR:HA	1:6:69:GLY:HA2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:91:ASN:C	1:ZA:93:LYS:H	2.21	0.49
2:ZK:372:LEU:O	2:ZK:373:VAL:C	2.56	0.49
2:ZO:236:GLY:CA	2:ZO:268:GLN:H	2.21	0.49
2:Zb:373:VAL:O	2:Zb:377:VAL:HG23	2.12	0.49
2:Zc:317:LEU:HD21	2:Zc:356:LEU:HD21	1.95	0.49
1:r:185:GLU:HB3	1:r:193:ILE:HG23	1.95	0.49
1:s:233:MET:HE1	1:x:245:LYS:HG3	1.94	0.49
1:y:70:THR:HG22	10:n:71:LEU:HB3	1.94	0.49
1:z:1:MET:HB2	10:o:213:PRO:HG3	1.93	0.49
6:N:48:ARG:NH2	7:T:6:ASP:OD2	2.45	0.49
7:R:96:ASP:OD1	7:R:96:ASP:N	2.39	0.49
7:T:93:PRO:HB2	10:p:46:VAL:HG12	1.94	0.49
10:p:91:GLN:HB2	10:p:121:ILE:HD11	1.94	0.49
1:2:235:GLN:HG2	1:8:5:LEU:HD21	1.94	0.49
1:4:238:ARG:CZ	1:ZA:251:ASP:OD2	2.59	0.49
1:ZA:76:ALA:CA	2:ZF:47:LYS:HD3	2.41	0.49
1:ZB:163:GLY:O	1:ZB:165:ALA:N	2.46	0.49
2:ZH:270:ASN:CB	2:ZN:191:GLY:C	2.85	0.49
2:ZH:397:ASN:OD1	2:ZH:401:ASN:ND2	2.45	0.49
2:ZK:109:VAL:HG12	2:ZK:115:GLN:HA	1.93	0.49
2:ZR:180:LYS:NZ	2:ZR:181:LYS:O	2.45	0.49
2:ZT:396:LEU:O	2:ZT:400:VAL:HG23	2.12	0.49
2:ZU:104:GLU:OE2	2:ZU:104:GLU:N	2.31	0.49
2:ZY:27:SER:O	2:ZY:364:SER:OG	2.30	0.49
2:ZZ:373:VAL:HG21	2:Zf:10:LEU:CD2	2.42	0.49
2:Zb:24:ILE:O	2:Zb:27:SER:OG	2.31	0.49
2:Zd:397:ASN:O	2:Zd:398:THR:C	2.53	0.49
1:s:62:LEU:HG	8:X:84:LEU:HD11	1.94	0.49
1:s:258:THR:HB	10:m:228:GLU:HB2	1.93	0.49
1:t:251:ASP:OD2	10:n:221:ILE:HG21	2.12	0.49
1:u:62:LEU:CG	8:Z:84:LEU:HD23	2.42	0.49
5:J:65:THR:O	5:J:68:ILE:HG22	2.12	0.49
5:J:84:PRO:HG2	5:J:89:LEU:HD11	1.94	0.49
7:T:31:ALA:HB1	8:Y:13:ALA:HB2	1.94	0.49
7:U:32:ASN:HD21	8:Z:61:GLY:C	2.20	0.49
8:W:106:MET:HE2	10:n:5:ILE:CD1	2.40	0.49
8:Y:10:ALA:O	8:Y:14:LEU:HG	2.12	0.49
8:Z:22:ASN:ND2	10:p:54:ARG:NH1	2.61	0.49
10:n:243:ARG:O	10:n:246:GLN:N	2.45	0.49
10:q:226:ARG:O	10:q:230:GLN:HG2	2.13	0.49
1:0:47:GLN:HE22	10:p:67:THR:CG2	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:248:SER:HB2	1:7:260:LEU:CD2	2.42	0.49
1:6:55:GLN:O	10:q:138:ALA:CB	2.46	0.49
1:6:230:LEU:HA	1:6:233:MET:HG3	1.95	0.49
1:ZE:144:ALA:O	2:ZJ:352:ASN:ND2	2.46	0.49
2:ZG:159:ASN:ND2	2:ZG:272:GLY:O	2.45	0.49
2:ZJ:373:VAL:HG11	2:ZP:7:VAL:HG22	1.95	0.49
2:ZK:228:THR:HB	2:ZK:244:VAL:HG11	1.95	0.49
2:ZL:18:ASP:CG	2:ZQ:5:GLN:HE21	2.21	0.49
2:ZN:156:ILE:HD12	2:ZN:276:ILE:HG13	1.94	0.49
2:ZO:80:ASN:OD1	2:ZO:81:GLY:N	2.45	0.49
2:ZX:380:ARG:HH12	2:Zd:397:ASN:ND2	2.11	0.49
2:Za:171:SER:O	2:Za:177:SER:OG	2.28	0.49
2:Zf:126:PRO:HB2	2:Zf:311:VAL:HG12	1.94	0.49
1:r:253:MET:HE3	10:m:16:LEU:HD21	1.94	0.49
1:v:123:ASP:OD2	1:v:127:GLN:HB2	2.13	0.49
1:w:254:LEU:CB	10:q:225:ARG:HD2	2.42	0.49
1:y:8:ALA:O	1:y:11:GLY:N	2.45	0.49
1:y:19:MET:HB2	1:y:236:VAL:HG11	1.93	0.49
5:H:65:THR:O	5:H:68:ILE:HG22	2.12	0.49
8:V:128:LYS:O	8:V:129:THR:C	2.55	0.49
10:o:89:VAL:HG12	10:o:121:ILE:HB	1.94	0.49
10:o:174:SER:OG	10:o:176:ASP:OD1	2.29	0.49
1:3:1:MET:HB2	1:s:226:VAL:CG2	2.43	0.49
1:5:215:TYR:HB3	1:5:218:TYR:HD2	1.78	0.49
1:7:34:PHE:HB3	1:7:222:SER:HB3	1.95	0.49
1:8:185:GLU:HG3	1:ZD:67:GLN:NE2	2.28	0.49
1:ZD:27:ALA:C	2:ZI:52:VAL:HG22	2.36	0.49
1:ZD:189:GLU:OE1	2:ZI:53:LYS:HE2	2.13	0.49
2:ZH:144:MET:HE3	2:ZH:306:ASN:HD21	1.77	0.49
2:ZK:25:ALA:HB1	2:ZP:52:VAL:CG1	2.43	0.49
2:ZL:18:ASP:CG	2:ZQ:5:GLN:NE2	2.70	0.49
2:ZL:84:ARG:HH12	2:ZL:92:VAL:HG22	1.77	0.49
2:ZL:372:LEU:HD21	2:ZQ:384:SER:CB	2.42	0.49
2:ZP:159:ASN:OD1	2:ZP:161:THR:N	2.46	0.49
2:ZW:104:GLU:HG2	2:ZW:105:ASN:OD1	2.13	0.49
2:Zh:386:ALA:O	2:Zh:389:ILE:HG22	2.13	0.49
1:s:7:ILE:O	1:s:10:THR:N	2.46	0.49
1:u:251:ASP:OD2	10:o:221:ILE:CG2	2.60	0.49
1:v:19:MET:HG2	1:v:236:VAL:HG11	1.93	0.49
1:v:65:GLY:O	10:q:60:SER:HB2	2.12	0.49
3:D:33:LEU:HB2	4:E:216:ILE:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:41:SER:HB3	6:O:82:MET:HE2	1.95	0.49
7:Q:93:PRO:CG	10:m:52:ALA:HA	2.43	0.49
7:T:102:MET:HB3	7:T:106:ARG:HH21	1.77	0.49
8:W:110:ARG:HB3	10:n:241:GLU:HG2	1.94	0.49
8:Y:51:VAL:O	8:Y:52:ASP:C	2.56	0.49
9:d:326:ALA:HB2	10:m:46:VAL:HA	1.95	0.49
1:6:248:SER:OG	1:ZB:260:LEU:HD22	2.12	0.49
1:ZA:56:SER:HB2	1:u:153:ARG:HB2	1.94	0.49
1:ZD:167:PRO:HG3	2:ZO:338:GLN:OE1	2.13	0.49
2:ZK:175:ALA:HA	2:ZK:178:TYR:CZ	2.47	0.49
2:ZP:83:PHE:HB2	2:ZP:95:SER:O	2.13	0.49
2:ZR:199:TYR:HB2	2:ZR:211:TYR:HB2	1.95	0.49
2:ZR:261:LEU:HD21	2:ZR:263:PHE:HE2	1.78	0.49
2:ZT:106:ARG:HH22	2:ZT:289:LEU:CD2	2.26	0.49
2:Zd:171:SER:O	2:Zd:177:SER:OG	2.30	0.49
1:s:246:ALA:HB2	10:n:220:MET:SD	2.53	0.49
1:u:67:GLN:NE2	10:p:173:ARG:HD2	2.28	0.49
1:z:193:ILE:HD12	10:o:152:PRO:CG	2.42	0.49
5:H:48:ILE:HD11	7:S:134:LEU:CD2	2.42	0.49
5:I:211:MET:O	5:J:211:MET:HE2	2.12	0.49
8:Y:102:MET:HE1	10:o:232:LYS:HB3	1.95	0.49
10:m:51:LEU:O	10:m:53:THR:N	2.46	0.49
1:3:180:ASN:C	1:3:182:THR:N	2.70	0.49
1:4:123:ASP:OD1	1:4:127:GLN:N	2.45	0.49
1:5:55:GLN:O	10:p:138:ALA:HB1	2.11	0.49
1:ZB:172:GLN:HE22	1:ZB:205:THR:HG23	1.78	0.49
2:ZF:65:THR:HA	2:ZQ:50:LEU:HD11	1.95	0.49
2:ZH:78:SER:OG	2:ZH:355:LYS:N	2.35	0.49
2:ZM:160:SER:O	2:ZM:202:LYS:NZ	2.41	0.49
2:ZO:14:ALA:HB2	2:ZO:382:TYR:HE2	1.77	0.49
2:ZQ:379:GLN:NE2	2:ZV:394:GLN:HE22	2.10	0.49
2:ZY:270:ASN:HB3	2:Ze:286:PRO:HD2	1.94	0.49
2:Za:17:LEU:HD22	2:Zf:391:THR:HG21	1.93	0.49
2:Zg:159:ASN:ND2	2:Zg:161:THR:OG1	2.44	0.49
1:t:248:SER:HB2	1:y:260:LEU:HD13	1.95	0.49
1:y:129:VAL:HA	1:y:136:VAL:HG23	1.95	0.49
1:4:44:LEU:HB3	1:4:70:THR:HB	1.95	0.49
1:4:56:SER:HA	10:o:138:ALA:HB1	1.95	0.49
1:4:226:VAL:HG11	1:9:242:ILE:CD1	2.43	0.49
1:6:231:VAL:CG1	1:ZC:9:LYS:HG2	2.30	0.49
1:7:55:GLN:HG3	1:r:169:GLN:HE21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:1:MET:HE3	1:z:226:VAL:HG21	1.95	0.49
1:ZA:85:ASN:HA	2:ZL:50:LEU:HD13	1.95	0.49
2:ZL:29:THR:CG2	2:ZQ:39:PHE:HB2	2.41	0.49
2:ZP:181:LYS:HD3	2:Za:129:GLN:HE22	1.78	0.49
2:ZR:126:PRO:HG2	2:ZR:310:GLN:HE21	1.78	0.49
2:ZT:24:ILE:HD12	2:ZY:388:THR:OG1	2.13	0.49
2:ZT:243:THR:HG22	2:ZT:262:SER:HB2	1.94	0.49
2:ZU:293:GLN:HE21	2:ZU:303:ASN:HD21	1.61	0.49
2:ZY:102:LEU:HD11	2:ZY:139:ILE:HD12	1.95	0.49
2:Zb:144:MET:SD	2:Zb:306:ASN:ND2	2.85	0.49
1:u:129:VAL:HG12	1:u:135:GLN:HA	1.94	0.49
1:z:6:TRP:CZ3	10:o:70:GLN:NE2	2.81	0.49
1:z:70:THR:HG21	10:o:71:LEU:HB2	1.90	0.49
4:E:93:ALA:HB2	5:F:88:VAL:HG21	1.94	0.49
5:J:143:ARG:NH2	5:J:180:LYS:HB3	2.28	0.49
10:n:188:GLU:HG3	10:n:189:ARG:HG2	1.94	0.49
1:1:6:TRP:CB	10:q:70:GLN:HB3	2.40	0.48
1:9:184:LEU:HB3	1:9:192:TYR:HB3	1.95	0.48
1:ZA:1:MET:CE	1:z:226:VAL:HG21	2.43	0.48
1:ZB:227:ALA:HA	2:ZM:399:LEU:CD2	2.43	0.48
1:ZD:184:LEU:HB3	1:ZD:192:TYR:HB3	1.95	0.48
2:ZG:146:ALA:HB2	2:ZG:286:PRO:HD3	1.93	0.48
2:ZP:391:THR:O	2:ZP:395:ILE:HG23	2.12	0.48
2:ZT:95:SER:OG	2:ZT:332:ASN:O	2.23	0.48
2:ZU:141:ASN:HA	2:ZU:289:LEU:HD13	1.94	0.48
2:ZV:369:SER:HB3	2:Zb:382:TYR:OH	2.13	0.48
2:ZV:372:LEU:CD1	2:Zg:399:LEU:HB3	2.43	0.48
2:ZX:83:PHE:HB2	2:ZX:95:SER:O	2.13	0.48
5:F:92:LEU:HD13	5:F:232:TRP:HZ2	1.77	0.48
5:J:73:LEU:HD13	5:J:186:GLY:HA3	1.94	0.48
6:M:48:ARG:HH11	7:S:5:LEU:HD23	1.77	0.48
7:S:128:LYS:NZ	8:X:134:GLN:HE21	2.10	0.48
7:T:11:PHE:CD1	7:T:53:MET:HE2	2.48	0.48
8:X:27:ASN:OD1	8:X:42:TYR:OH	2.27	0.48
8:Y:3:LEU:H	8:Y:3:LEU:HD12	1.77	0.48
10:p:35:ARG:HA	10:p:210:ASN:HD21	1.78	0.48
1:0:1:MET:SD	1:0:1:MET:N	2.85	0.48
1:5:28:ASN:OD1	1:ZA:72:VAL:HG23	2.14	0.48
1:ZA:76:ALA:HA	2:ZF:47:LYS:CE	2.43	0.48
1:ZA:189:GLU:HA	2:ZF:40:ALA:HB1	1.95	0.48
1:ZB:29:VAL:O	1:ZB:222:SER:OG	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZB:50:ARG:HB2	1:ZB:66:LEU:H	1.76	0.48
1:ZB:98:LYS:HE3	2:ZM:44:ALA:HB2	1.95	0.48
1:ZD:189:GLU:OE1	2:ZI:53:LYS:CE	2.61	0.48
2:ZI:198:VAL:HG22	2:ZI:212:THR:HG22	1.95	0.48
2:ZJ:195:ASP:OD2	2:ZJ:195:ASP:N	2.36	0.48
2:ZO:141:ASN:O	2:ZO:142:THR:C	2.56	0.48
2:ZV:41:ASP:OD2	2:ZV:41:ASP:N	2.46	0.48
2:ZV:367:ASP:HB3	2:ZV:370:LYS:HD2	1.95	0.48
2:ZZ:93:PHE:HB3	2:ZZ:333:VAL:HG13	1.94	0.48
2:Zg:196:MET:HE3	2:Zg:248:THR:HG22	1.95	0.48
1:r:238:ARG:HG3	1:x:254:LEU:HD13	1.94	0.48
1:r:256:LYS:CG	10:m:228:GLU:OE1	2.49	0.48
1:v:46:TYR:CD1	10:q:173:ARG:HD2	2.48	0.48
4:E:106:MET:HE1	4:E:226:ILE:HG13	1.93	0.48
5:F:130:GLY:O	5:F:133:PRO:HD2	2.13	0.48
5:J:143:ARG:HH22	5:J:180:LYS:HB3	1.78	0.48
7:T:49:LEU:O	7:T:53:MET:HG2	2.13	0.48
10:n:225:ARG:HG2	10:n:225:ARG:HH11	1.77	0.48
10:p:11:ALA:HB3	10:p:230:GLN:HG2	1.95	0.48
1:0:251:ASP:OD1	1:u:238:ARG:CZ	2.60	0.48
1:3:50:ARG:HH21	1:y:73:ARG:HH22	1.59	0.48
1:5:34:PHE:HB3	1:5:222:SER:HB3	1.95	0.48
1:5:129:VAL:HG12	1:5:135:GLN:HA	1.96	0.48
1:5:238:ARG:NH1	1:5:241:GLU:OE2	2.45	0.48
1:7:235:GLN:HG2	1:ZD:5:LEU:CD2	2.40	0.48
1:ZB:248:SER:HB3	2:ZG:402:LEU:CD2	2.34	0.48
1:ZC:240:TYR:CE2	2:ZH:395:ILE:HG22	2.48	0.48
2:ZH:33:LYS:HA	2:ZH:365:ASN:HD21	1.78	0.48
2:ZK:394:GLN:O	2:ZK:397:ASN:HB3	2.13	0.48
2:ZQ:380:ARG:HG3	2:ZW:396:LEU:HD12	1.94	0.48
2:ZV:182:GLY:HA2	2:Zg:131:GLY:HA3	1.95	0.48
2:ZV:380:ARG:NH2	2:Zb:393:ASP:OD2	2.46	0.48
2:Zb:68:ASN:OD1	2:Zb:68:ASN:N	2.47	0.48
2:Ze:178:TYR:HA	2:Ze:201:VAL:HG22	1.94	0.48
2:Ze:352:ASN:OD1	2:Ze:352:ASN:N	2.43	0.48
2:Zg:3:PHE:O	2:Zg:7:VAL:HG22	2.13	0.48
1:w:100:GLN:H	1:w:100:GLN:HG2	1.41	0.48
3:D:55:ILE:HD11	5:I:205:MET:HE2	1.84	0.48
7:T:102:MET:HE3	7:T:106:ARG:HE	1.78	0.48
7:U:93:PRO:HB3	10:q:48:GLY:HA3	1.95	0.48
10:q:65:ASP:O	10:q:210:ASN:ND2	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:197:SER:CA	1:w:124:GLN:HB3	2.43	0.48
1:3:37:GLN:HE22	1:8:46:TYR:HE2	1.60	0.48
1:ZA:91:ASN:C	1:ZA:93:LYS:N	2.70	0.48
1:ZD:54:ALA:HB1	1:x:150:THR:CG2	2.29	0.48
2:ZH:298:GLY:HA2	2:ZH:356:LEU:HD12	1.96	0.48
2:ZI:93:PHE:HB3	2:ZI:333:VAL:HG13	1.95	0.48
2:ZL:165:PRO:HG2	2:ZL:201:VAL:HG13	1.94	0.48
2:ZM:270:ASN:ND2	2:ZS:192:ASN:HA	2.25	0.48
2:ZN:267:MET:HE2	2:ZN:267:MET:HB3	1.78	0.48
2:ZW:144:MET:SD	2:ZW:310:GLN:NE2	2.86	0.48
2:Zb:33:LYS:O	2:Zb:59:GLN:NE2	2.46	0.48
2:Zb:299:THR:HG22	2:Zb:314:GLN:HG3	1.95	0.48
2:Zc:107:ASN:ND2	2:Zc:138:THR:OG1	2.46	0.48
2:Zd:154:MET:HB2	2:Zd:279:THR:HG22	1.95	0.48
5:I:161:GLY:C	5:I:163:GLU:N	2.69	0.48
7:S:96:ASP:HB3	9:g:318:ASN:OD1	2.12	0.48
8:V:27:ASN:ND2	8:V:45:LYS:O	2.33	0.48
8:Y:54:ALA:HB1	8:Y:55:PRO:CD	2.43	0.48
1:1:45:LEU:CD1	10:q:83:GLN:HA	2.37	0.48
1:2:56:SER:HA	10:m:138:ALA:HB1	1.85	0.48
1:4:73:ARG:HH22	1:9:50:ARG:NH1	2.10	0.48
1:5:124:GLN:HB2	1:ZA:199:GLY:CA	2.42	0.48
1:6:241:GLU:HG2	1:ZB:256:LYS:HG3	1.96	0.48
1:ZA:73:ARG:HB2	1:z:218:TYR:OH	2.13	0.48
1:ZA:240:TYR:CD2	2:ZF:395:ILE:CG2	2.90	0.48
2:ZK:58:THR:OG1	2:ZK:324:GLU:OE2	2.30	0.48
2:ZS:201:VAL:HG22	2:ZS:209:ALA:HB3	1.95	0.48
2:ZV:5:GLN:HB2	2:ZV:50:LEU:O	2.13	0.48
2:ZW:186:VAL:HG23	2:ZW:194:HIS:HB2	1.95	0.48
2:ZY:21:GLY:HA2	2:ZY:24:ILE:HG22	1.94	0.48
2:Zc:139:ILE:HA	2:Zc:312:LEU:HD22	1.93	0.48
1:s:66:LEU:HD22	10:n:59:ALA:O	2.14	0.48
1:u:72:VAL:HB	10:p:28:ASN:ND2	2.27	0.48
1:z:258:THR:HA	10:o:217:MET:HE2	1.84	0.48
3:C:17:ALA:HB2	5:I:195:ILE:HG23	1.95	0.48
3:D:74:LEU:HD13	5:J:228:LEU:HB3	1.95	0.48
7:R:51:LYS:CG	7:R:55:ARG:NH1	2.75	0.48
1:6:86:LEU:HB2	2:ZH:42:MET:CE	2.27	0.48
1:7:85:ASN:HA	2:ZI:50:LEU:HD22	1.96	0.48
1:9:238:ARG:CZ	2:ZF:397:ASN:HB2	2.44	0.48
1:ZA:45:LEU:CD1	1:z:83:GLN:HG2	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZC:123:ASP:OD1	1:ZC:123:ASP:N	2.38	0.48
2:ZF:10:LEU:HD21	2:ZK:399:LEU:HD21	1.95	0.48
2:ZG:108:LEU:HD23	2:ZG:108:LEU:HA	1.71	0.48
2:ZH:233:ASN:OD1	2:ZH:234:GLU:N	2.47	0.48
2:ZJ:17:LEU:CD1	2:ZO:395:ILE:HD11	2.44	0.48
2:ZQ:228:THR:HG21	2:ZQ:244:VAL:HG11	1.96	0.48
2:ZT:228:THR:HB	2:ZT:244:VAL:HG11	1.94	0.48
2:ZU:269:GLN:NE2	2:Za:190:GLN:HA	2.28	0.48
2:Za:269:GLN:HG2	2:Zg:286:PRO:CG	2.44	0.48
2:Zb:85:LEU:HD13	2:Zb:114:MET:HB3	1.95	0.48
2:Zc:188:ASP:HA	2:Zc:257:ALA:HB2	1.95	0.48
1:s:246:ALA:CA	10:n:220:MET:SD	3.00	0.48
1:u:62:LEU:HD21	8:Z:82:ASN:OD1	2.13	0.48
1:x:6:TRP:HD1	10:m:70:GLN:HB2	1.78	0.48
3:A:51:PHE:CE2	5:F:202:SER:HA	2.47	0.48
6:M:86:ILE:HD11	7:R:133:VAL:CG2	2.44	0.48
8:X:94:PRO:HB2	8:X:96:VAL:HG23	1.94	0.48
10:n:18:GLN:NE2	10:n:223:ASN:OD1	2.46	0.48
10:n:34:PHE:HB3	10:n:209:SER:HB3	1.96	0.48
1:4:22:ILE:HD11	1:4:232:ASN:HB3	1.94	0.48
1:6:86:LEU:CD1	2:ZH:42:MET:HE1	2.37	0.48
1:8:45:LEU:HD13	1:x:83:GLN:CG	2.44	0.48
2:ZG:99:GLN:HG3	2:ZG:361:LEU:HD11	1.95	0.48
2:ZJ:42:MET:SD	2:ZJ:53:LYS:HB2	2.54	0.48
2:ZK:34:SER:HB3	2:ZK:366:VAL:HG12	1.94	0.48
2:ZP:26:ASN:OD1	2:ZU:52:VAL:HB	2.13	0.48
2:ZP:122:THR:OG1	2:ZP:129:GLN:NE2	2.46	0.48
2:ZR:101:LYS:HB2	2:ZW:324:GLU:OE1	2.13	0.48
2:ZT:69:THR:HG21	2:ZT:361:LEU:HD12	1.95	0.48
2:ZZ:10:LEU:HG	2:ZZ:382:TYR:CZ	2.49	0.48
2:Zf:294:ILE:HG12	2:Zf:300:VAL:HG22	1.96	0.48
1:y:82:SER:HB2	1:y:223:ASN:HD21	1.78	0.48
1:z:2:ILE:HG21	1:z:254:LEU:HD11	1.96	0.48
5:H:106:ASP:OD1	6:M:31:THR:HA	2.14	0.48
5:J:71:PHE:CZ	5:J:236:MET:HE1	2.49	0.48
8:X:97:ASP:O	8:X:101:GLU:HG2	2.13	0.48
8:a:26:SER:HB2	10:q:55:THR:H	1.78	0.48
1:3:22:ILE:HD11	1:3:232:ASN:HB3	1.95	0.48
1:9:130:THR:HG22	1:9:132:GLY:H	1.79	0.48
1:ZA:95:VAL:HG11	1:ZA:214:LEU:HD23	1.95	0.48
1:ZE:36:ARG:HB3	1:ZE:224:VAL:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZK:102:LEU:O	2:ZP:322:ASN:HB2	2.13	0.48
2:ZL:26:ASN:CG	2:ZQ:52:VAL:HG22	2.39	0.48
2:ZP:156:ILE:HD12	2:ZP:276:ILE:HG12	1.96	0.48
2:ZQ:380:ARG:HB3	2:ZW:396:LEU:CD1	2.44	0.48
2:ZT:210:VAL:HB	2:ZT:228:THR:HG22	1.94	0.48
2:ZV:269:GLN:CG	2:Zb:286:PRO:HG2	2.43	0.48
2:ZW:181:LYS:HZ2	2:Zh:129:GLN:NE2	2.12	0.48
2:ZW:183:THR:HG21	2:Zh:132:ALA:HA	1.96	0.48
2:Zc:6:ALA:HB1	2:Zc:389:ILE:HG13	1.96	0.48
2:Zd:116:LEU:HD12	2:Zd:117:THR:N	2.29	0.48
1:r:197:SER:HA	10:m:109:PRO:HG3	1.95	0.48
1:r:253:MET:CE	10:m:16:LEU:HD22	2.44	0.48
1:x:19:MET:HB2	1:x:236:VAL:HG11	1.96	0.48
5:I:161:GLY:C	5:I:163:GLU:H	2.20	0.48
10:o:122:GLY:O	10:o:123:GLU:C	2.56	0.48
1:1:122:VAL:O	1:6:180:ASN:ND2	2.33	0.48
1:1:137:GLN:HG3	1:1:137:GLN:O	2.12	0.48
1:1:165:ALA:HB1	1:ZC:194:GLU:HG2	1.95	0.48
1:2:114:TYR:CD2	1:2:178:PHE:HZ	2.32	0.48
1:3:64:SER:O	1:y:76:ALA:HB1	2.14	0.48
1:5:241:GLU:CD	1:ZA:256:LYS:NZ	2.68	0.48
1:7:7:ILE:HG23	1:7:71:GLY:HA2	1.96	0.48
1:7:151:ILE:HG12	1:7:157:VAL:HG22	1.94	0.48
1:8:227:ALA:CB	2:ZJ:399:LEU:HD22	2.44	0.48
1:9:123:ASP:OD2	1:9:125:ASN:ND2	2.47	0.48
1:ZA:57:SER:HA	1:u:154:ASP:HB2	1.94	0.48
2:ZI:147:LYS:HE2	2:ZI:282:ASN:HD22	1.79	0.48
2:ZL:316:VAL:HG22	2:ZL:345:LEU:HD12	1.96	0.48
2:ZM:93:PHE:HB3	2:ZM:333:VAL:HG13	1.95	0.48
2:ZO:140:PRO:HD2	2:ZO:312:LEU:HD23	1.95	0.48
2:ZQ:317:LEU:HD11	2:ZQ:356:LEU:HD21	1.96	0.48
2:ZU:269:GLN:HE22	2:Za:190:GLN:HA	1.78	0.48
2:Zb:96:ARG:HG3	2:Zb:96:ARG:O	2.14	0.48
1:u:18:ASN:HB2	1:u:41:PHE:HZ	1.79	0.48
1:u:243:ASN:OD1	10:p:26:LEU:HB3	2.14	0.48
4:E:86:PHE:CZ	5:F:88:VAL:HA	2.48	0.48
6:K:69:ASN:ND2	7:Q:20:ALA:HB2	2.29	0.48
7:R:92:GLN:HE21	10:n:53:THR:CB	2.27	0.48
8:W:44:ALA:HB2	8:W:96:VAL:HG22	1.96	0.48
8:X:106:MET:HE1	10:o:234:ILE:HG22	1.96	0.48
8:Y:28:LEU:HD21	8:Y:102:MET:HE2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:q:181:LEU:HD21	10:q:193:LEU:HD11	1.96	0.48
1:0:33:GLY:N	1:0:220:GLU:O	2.47	0.48
1:0:195:THR:HG22	1:0:196:GLN:H	1.79	0.48
1:1:73:ARG:CZ	10:q:202:MET:SD	3.02	0.48
1:2:184:LEU:HB3	1:2:192:TYR:HB3	1.96	0.48
1:4:35:LYS:HE3	1:4:81:HIS:HA	1.95	0.48
1:4:136:VAL:O	1:4:137:GLN:C	2.57	0.48
1:6:1:MET:HE2	1:v:226:VAL:CG1	2.38	0.48
1:ZC:20:ASP:OD1	2:ZH:2:SER:HB2	2.13	0.48
1:ZD:37:GLN:OE1	2:ZI:43:PHE:CZ	2.67	0.48
1:ZD:97:ILE:HD11	1:ZD:103:PHE:CE2	2.49	0.48
1:ZD:238:ARG:O	1:ZD:242:ILE:HG12	2.14	0.48
2:ZG:27:SER:O	2:ZG:364:SER:OG	2.30	0.48
2:ZH:159:ASN:ND2	2:ZH:162:ASP:OD2	2.46	0.48
2:ZJ:87:ASP:OD2	2:ZJ:88:SER:N	2.45	0.48
2:ZW:317:LEU:HD11	2:ZW:356:LEU:HD21	1.96	0.48
2:ZZ:367:ASP:HB2	2:ZZ:370:LYS:HG3	1.94	0.48
2:Za:331:ASP:OD1	2:Zf:53:LYS:HE2	2.13	0.48
2:Zb:170:PHE:HE2	2:Zb:223:PRO:HG2	1.79	0.48
1:y:73:ARG:HH11	10:n:202:MET:CE	2.05	0.48
3:D:60:ILE:HA	3:D:63:ILE:HG12	1.96	0.48
4:E:182:ASN:HB3	4:E:239:PHE:HZ	1.79	0.48
5:F:99:PHE:C	5:F:99:PHE:CD2	2.91	0.48
5:J:150:PHE:CE1	5:J:172:PRO:HB2	2.48	0.48
8:a:21:LEU:HD21	10:q:237:VAL:HG22	1.95	0.48
10:o:42:ARG:HG2	10:o:58:THR:O	2.13	0.48
1:0:42:GLU:HB3	1:0:75:VAL:HG21	1.96	0.47
1:4:140:ILE:HD11	1:4:173:LEU:HD13	1.96	0.47
1:5:238:ARG:CZ	1:ZB:255:GLN:HB2	2.43	0.47
1:5:239:ALA:HB2	1:ZB:1:MET:CE	2.43	0.47
1:ZC:189:GLU:HA	2:ZH:40:ALA:HB1	1.96	0.47
1:ZC:190:ASN:OD1	2:ZH:41:ASP:OD2	2.32	0.47
2:ZG:103:ASP:O	2:ZG:104:GLU:C	2.56	0.47
2:ZH:87:ASP:OD2	2:ZH:87:ASP:N	2.39	0.47
2:ZJ:110:ASN:ND2	2:ZJ:112:GLN:OE1	2.47	0.47
2:ZO:5:GLN:HG2	2:ZO:50:LEU:O	2.14	0.47
2:ZS:103:ASP:OD2	2:ZS:105:ASN:N	2.44	0.47
2:ZV:107:ASN:HD22	2:ZV:138:THR:HG22	1.79	0.47
2:ZX:6:ALA:HB1	2:ZX:389:ILE:HG12	1.95	0.47
2:Za:382:TYR:CG	2:Zf:395:ILE:HD12	2.49	0.47
2:Zc:110:ASN:OD1	2:Zc:114:MET:N	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:62:LEU:HD22	8:W:83:PRO:HG2	1.91	0.47
1:u:16:GLN:HE22	1:z:2:ILE:HD11	1.78	0.47
1:x:142:ILE:HD13	1:x:149:ILE:HD13	1.96	0.47
1:z:70:THR:HG23	10:o:71:LEU:HB2	1.95	0.47
3:B:70:LEU:O	3:B:74:LEU:HG	2.14	0.47
3:C:14:MET:HE3	3:D:63:ILE:HD11	1.88	0.47
4:E:205:ASN:HD21	5:F:211:MET:HB2	1.79	0.47
5:H:41:SER:HB2	6:N:82:MET:HE3	1.95	0.47
5:I:159:LEU:O	5:I:160:GLN:HB2	2.14	0.47
5:J:67:ILE:HG23	5:J:93:ALA:HB1	1.96	0.47
5:J:80:THR:HB	5:J:83:ALA:HB2	1.96	0.47
7:Q:22:ARG:NH2	7:Q:108:GLN:OE1	2.47	0.47
8:Y:102:MET:SD	10:o:232:LYS:HG2	2.54	0.47
10:m:225:ARG:O	10:m:229:MET:HG3	2.14	0.47
1:6:16:GLN:O	1:6:19:MET:N	2.47	0.47
1:8:40:VAL:O	1:8:75:VAL:N	2.45	0.47
1:8:238:ARG:NH1	1:8:241:GLU:OE1	2.47	0.47
1:ZE:31:THR:CG2	2:ZJ:39:PHE:HB3	2.42	0.47
2:ZP:102:LEU:O	2:ZU:322:ASN:HB2	2.14	0.47
2:ZQ:233:ASN:HD21	2:ZQ:239:GLU:HB3	1.80	0.47
2:ZQ:270:ASN:N	2:ZW:190:GLN:O	2.47	0.47
2:ZV:157:ASN:ND2	2:Zb:143:LEU:HD13	2.29	0.47
2:ZV:387:GLN:OE1	2:Zb:400:VAL:HG13	2.09	0.47
2:ZW:171:SER:HB3	2:ZW:174:ASP:HB2	1.96	0.47
2:ZW:183:THR:HG21	2:Zh:133:ASN:H	1.78	0.47
2:ZW:294:ILE:HG12	2:ZW:300:VAL:HG22	1.96	0.47
2:ZY:319:ASN:ND2	2:ZY:352:ASN:O	2.46	0.47
2:ZZ:373:VAL:HG11	2:Zf:7:VAL:HG22	1.96	0.47
2:Za:68:ASN:OD1	2:Za:68:ASN:N	2.44	0.47
1:s:68:ILE:HG23	10:n:21:VAL:HG23	1.95	0.47
1:t:7:ILE:CG2	10:o:24:SER:HA	2.44	0.47
3:B:73:LEU:CD2	5:H:225:LEU:HD13	2.44	0.47
5:J:142:THR:HG21	5:J:170:LEU:CD1	2.44	0.47
7:S:24:GLU:HA	8:X:6:ILE:HG12	1.96	0.47
8:Y:116:ILE:HD13	10:o:244:ALA:HA	1.94	0.47
8:Z:42:TYR:O	8:Z:94:PRO:HB3	2.14	0.47
8:Z:109:SER:OG	10:p:240:ASN:ND2	2.46	0.47
8:a:116:ILE:HD13	10:q:244:ALA:HA	1.95	0.47
1:0:73:ARG:HH11	1:0:73:ARG:HB2	1.78	0.47
1:1:1:MET:HE2	10:q:213:PRO:HG3	1.97	0.47
1:1:37:GLN:HG2	1:1:79:ARG:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:2:ILE:HG22	1:4:254:LEU:HD11	1.95	0.47
1:4:97:ILE:HD11	1:4:103:PHE:CE2	2.49	0.47
1:5:235:GLN:HG3	1:ZB:5:LEU:HD21	1.96	0.47
1:ZA:95:VAL:O	1:ZA:118:GLY:HA3	2.13	0.47
1:ZC:31:THR:HB	2:ZH:39:PHE:O	2.14	0.47
1:ZE:34:PHE:HB3	1:ZE:222:SER:HB3	1.95	0.47
2:ZI:83:PHE:HB2	2:ZI:95:SER:O	2.14	0.47
2:ZL:380:ARG:NH1	2:ZR:397:ASN:OD1	2.44	0.47
2:ZN:87:ASP:OD2	2:ZN:88:SER:N	2.39	0.47
2:ZP:27:SER:O	2:ZP:364:SER:OG	2.32	0.47
2:ZQ:382:TYR:CE1	2:ZV:399:LEU:HD21	2.49	0.47
2:ZR:180:LYS:HB3	2:ZR:200:PHE:HD1	1.79	0.47
2:ZW:211:TYR:CD1	2:ZW:226:ALA:HA	2.49	0.47
2:ZX:71:ARG:HB3	2:ZX:74:ASP:CG	2.39	0.47
2:Zb:154:MET:HE1	2:Zb:276:ILE:HG12	1.96	0.47
2:Zb:309:GLU:OE1	2:Zb:309:GLU:N	2.41	0.47
2:Zc:83:PHE:HB2	2:Zc:95:SER:O	2.13	0.47
2:Zd:20:ILE:O	2:Zd:24:ILE:HG13	2.14	0.47
2:Ze:196:MET:SD	2:Ze:212:THR:HB	2.54	0.47
2:Zg:87:ASP:OD1	2:Zg:91:SER:N	2.47	0.47
1:r:137:GLN:HA	1:r:138:PRO:C	2.40	0.47
1:r:155:GLY:HA2	1:r:214:LEU:HD12	1.97	0.47
1:v:9:LYS:NZ	10:p:215:GLU:HG3	2.29	0.47
1:v:62:LEU:HG	8:a:84:LEU:CG	2.44	0.47
1:z:52:PRO:HG3	8:Y:80:PRO:HB3	1.97	0.47
4:E:9:TRP:CD1	4:E:9:TRP:H	2.31	0.47
4:E:178:LEU:HD13	4:E:181:LEU:HD23	1.95	0.47
6:K:77:LYS:HG3	7:Q:5:LEU:CD2	2.43	0.47
7:S:91:ASP:OD1	9:h:313:PRO:HB3	2.14	0.47
1:5:44:LEU:O	1:5:70:THR:HB	2.15	0.47
1:7:244:SER:CB	1:ZC:260:LEU:HD21	2.45	0.47
1:ZA:138:PRO:HD2	1:ZA:140:ILE:HD11	1.97	0.47
1:ZC:238:ARG:NH2	2:ZI:397:ASN:HB2	2.28	0.47
2:ZJ:370:LYS:CE	2:ZP:11:ASN:HD21	2.25	0.47
2:ZL:65:THR:HG22	2:ZW:50:LEU:HD13	1.96	0.47
2:ZN:373:VAL:CG1	2:ZT:7:VAL:HG22	2.45	0.47
2:ZT:380:ARG:HH21	2:ZZ:397:ASN:HD21	1.62	0.47
2:Zf:59:GLN:HB3	2:Zf:61:PHE:CE1	2.50	0.47
1:r:197:SER:O	10:m:109:PRO:CG	2.59	0.47
1:s:115:THR:HB	1:s:191:LEU:HD23	1.96	0.47
1:t:260:LEU:O	10:n:232:LYS:HD3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:46:TYR:CZ	10:q:173:ARG:NH1	2.77	0.47
1:v:176:THR:CG2	1:v:201:PRO:HB2	2.44	0.47
1:y:35:LYS:NZ	1:y:220:GLU:OE2	2.44	0.47
1:y:258:THR:HA	10:n:217:MET:CE	2.40	0.47
3:A:74:LEU:HB3	3:A:78:ARG:NH1	2.30	0.47
5:J:86:ASN:C	5:J:88:VAL:N	2.72	0.47
10:m:146:LEU:HB2	10:m:155:VAL:HG23	1.95	0.47
1:5:22:ILE:HG21	1:5:233:MET:HG3	1.96	0.47
1:8:95:VAL:O	1:8:118:GLY:HA3	2.14	0.47
1:ZB:238:ARG:HD3	2:ZH:396:LEU:HD13	1.96	0.47
2:ZH:67:THR:N	2:ZH:361:LEU:O	2.45	0.47
2:ZI:77:ILE:HG13	2:ZI:83:PHE:CZ	2.49	0.47
2:ZT:184:VAL:HG13	2:ZT:196:MET:HB2	1.96	0.47
2:ZU:181:LYS:HZ3	2:ZU:197:ASN:HB3	1.79	0.47
2:ZW:16:ASN:HB2	2:ZW:39:PHE:HZ	1.79	0.47
2:ZW:233:ASN:HD21	2:ZW:237:ILE:HB	1.79	0.47
2:Zb:171:SER:HB3	2:Zb:174:ASP:HB2	1.97	0.47
2:Zg:79:GLN:HB2	2:Zg:354:GLY:HA3	1.96	0.47
2:Zg:194:HIS:CE1	2:Zg:251:ILE:HD12	2.50	0.47
1:r:9:LYS:HB2	8:a:103:VAL:HG21	1.96	0.47
1:s:82:SER:HB3	1:s:223:ASN:ND2	2.27	0.47
1:u:32:ASN:HD22	1:u:219:VAL:HB	1.80	0.47
1:u:73:ARG:NH1	1:z:51:GLN:OE1	2.48	0.47
1:w:257:LEU:CD2	10:q:229:MET:HE2	2.43	0.47
1:x:7:ILE:HG12	1:x:70:THR:O	2.13	0.47
3:B:29:LEU:HD23	3:B:30:ILE:HD13	1.96	0.47
3:D:2:THR:OG1	3:D:4:GLU:OE1	2.29	0.47
5:G:66:ARG:NH2	5:G:178:GLU:OE1	2.45	0.47
5:I:75:ARG:HD2	5:I:84:PRO:HD2	1.95	0.47
6:K:76:GLN:O	6:K:77:LYS:C	2.57	0.47
7:S:10:ARG:HE	7:S:53:MET:HE1	1.79	0.47
10:m:224:ALA:O	10:m:228:GLU:HG2	2.14	0.47
1:1:260:LEU:HD11	1:w:247:VAL:HG12	1.96	0.47
1:2:165:ALA:HB1	1:ZD:194:GLU:HG2	1.96	0.47
1:3:230:LEU:HA	1:3:233:MET:HE2	1.95	0.47
1:9:50:ARG:HD3	1:9:66:LEU:HD12	1.96	0.47
1:ZC:230:LEU:O	1:ZC:234:ILE:HG12	2.14	0.47
1:ZE:48:THR:HG22	1:ZE:67:GLN:HE22	1.80	0.47
1:ZE:147:LEU:HD21	2:ZJ:352:ASN:HA	1.97	0.47
2:ZL:29:THR:HG22	2:ZQ:39:PHE:CB	2.41	0.47
2:ZM:86:VAL:HG13	2:ZM:117:THR:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZO:373:VAL:HG11	2:ZU:7:VAL:HG22	1.96	0.47
2:ZO:380:ARG:NH2	2:ZU:393:ASP:OD2	2.48	0.47
2:ZR:186:VAL:HG22	2:ZR:194:HIS:HB2	1.94	0.47
2:ZZ:180:LYS:HB3	2:ZZ:200:PHE:HB2	1.96	0.47
2:Ze:33:LYS:HG3	2:Ze:61:PHE:CD2	2.49	0.47
1:s:123:ASP:OD1	1:s:127:GLN:HB3	2.14	0.47
1:v:258:THR:HB	10:p:228:GLU:HB3	1.96	0.47
1:y:257:LEU:HD21	10:n:214:VAL:CA	2.45	0.47
1:z:151:ILE:HG12	1:z:157:VAL:HG22	1.97	0.47
7:T:11:PHE:HD1	7:T:53:MET:HE2	1.80	0.47
8:X:46:GLN:HB3	9:g:312:VAL:HG13	1.96	0.47
9:d:319:GLN:HG2	9:d:320:PRO:HD2	1.95	0.47
1:0:193:ILE:CD1	10:p:152:PRO:CG	2.93	0.47
1:2:237:GLN:HB2	1:7:249:THR:HG23	1.95	0.47
1:3:123:ASP:O	1:8:179:MET:HG3	2.15	0.47
1:4:74:PRO:O	1:9:66:LEU:HD11	2.15	0.47
1:6:57:SER:OG	1:w:108:PRO:CG	2.51	0.47
2:ZG:318:ALA:HB2	2:ZG:345:LEU:HD23	1.96	0.47
2:ZH:24:ILE:O	2:ZH:27:SER:OG	2.26	0.47
2:ZH:114:MET:HE1	2:ZH:333:VAL:HG11	1.97	0.47
2:ZH:270:ASN:O	2:ZN:285:LYS:HE3	2.14	0.47
2:ZH:355:LYS:N	2:ZH:355:LYS:HD3	2.29	0.47
2:ZI:17:LEU:CD1	2:ZN:395:ILE:HD11	2.44	0.47
2:ZI:374:ASN:O	2:ZI:376:ILE:N	2.48	0.47
2:ZJ:350:SER:OG	2:ZJ:351:GLY:N	2.48	0.47
2:ZL:84:ARG:HG2	2:ZL:117:THR:OG1	2.14	0.47
2:ZL:383:GLN:O	2:ZL:387:GLN:HG2	2.15	0.47
2:ZO:33:LYS:HD2	2:ZO:61:PHE:HA	1.95	0.47
2:ZO:74:ASP:OD1	2:ZO:74:ASP:N	2.48	0.47
2:ZO:159:ASN:ND2	2:ZO:162:ASP:OD2	2.43	0.47
2:ZR:281:GLN:NE2	2:ZR:283:GLY:O	2.47	0.47
2:ZR:390:LYS:O	2:ZR:394:GLN:HG2	2.14	0.47
2:ZS:6:ALA:O	2:ZS:9:GLY:N	2.48	0.47
2:ZS:170:PHE:HE2	2:ZS:223:PRO:HG2	1.79	0.47
2:ZS:379:GLN:HG3	2:ZX:391:THR:HG23	1.96	0.47
2:ZT:144:MET:HG3	2:ZT:310:GLN:NE2	2.29	0.47
2:Za:149:THR:HG21	2:Za:186:VAL:HB	1.97	0.47
2:Za:269:GLN:HG2	2:Zg:286:PRO:HG2	1.97	0.47
2:Zc:80:ASN:OD1	2:Zc:81:GLY:N	2.46	0.47
2:Zf:2:SER:OG	2:Zf:3:PHE:N	2.46	0.47
1:s:7:ILE:HG23	1:s:71:GLY:HA2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:159:VAL:O	1:s:168:VAL:N	2.48	0.47
1:u:44:LEU:HD22	8:Y:90:TYR:CE1	2.50	0.47
1:v:258:THR:CG2	10:p:229:MET:HG3	2.23	0.47
1:w:254:LEU:HB3	10:q:225:ARG:HD2	1.97	0.47
1:x:2:ILE:HG12	1:x:254:LEU:HD11	1.97	0.47
3:A:85:PRO:CD	5:G:238:SER:OG	2.61	0.47
3:B:11:THR:HA	3:B:14:MET:HE3	1.96	0.47
4:E:94:ALA:HB2	4:E:179:ILE:HA	1.96	0.47
5:G:59:LEU:HD11	6:L:102:MET:CE	2.43	0.47
5:G:205:MET:CE	5:H:209:MET:HA	2.45	0.47
6:L:99:VAL:HA	6:L:102:MET:HE3	1.97	0.47
7:R:51:LYS:CD	7:R:55:ARG:HH12	2.27	0.47
7:T:91:ASP:O	10:p:50:SER:HB2	2.15	0.47
8:Z:47:VAL:HG12	8:Z:67:VAL:HG22	1.96	0.47
8:Z:106:MET:HE1	10:q:234:ILE:CG2	2.45	0.47
8:a:5:ASN:N	9:b:317:SER:O	2.48	0.47
1:0:70:THR:CG2	10:p:71:LEU:H	2.27	0.47
1:6:47:GLN:N	1:6:68:ILE:O	2.45	0.47
1:7:138:PRO:HD2	1:7:140:ILE:HG13	1.97	0.47
2:ZP:367:ASP:O	2:ZP:371:GLU:HG2	2.15	0.47
2:ZQ:33:LYS:O	2:ZQ:59:GLN:NE2	2.48	0.47
2:ZQ:97:ASN:HD22	2:ZQ:332:ASN:ND2	2.13	0.47
2:ZS:380:ARG:HD3	2:ZS:380:ARG:HA	1.65	0.47
2:ZX:317:LEU:HD11	2:ZX:356:LEU:HD21	1.97	0.47
2:Za:93:PHE:HB3	2:Za:333:VAL:HG13	1.97	0.47
2:Za:383:GLN:HB3	2:Zg:400:VAL:HG11	1.97	0.47
2:Zd:116:LEU:HD12	2:Zd:117:THR:H	1.80	0.47
1:x:95:VAL:O	1:x:118:GLY:HA3	2.15	0.47
3:A:17:ALA:HB2	5:G:195:ILE:HG23	1.97	0.47
3:C:6:VAL:HG22	5:I:187:PHE:CZ	2.50	0.47
6:K:69:ASN:ND2	7:Q:20:ALA:CB	2.78	0.47
6:N:87:GLN:NE2	7:T:134:LEU:O	2.48	0.47
8:W:14:LEU:HD21	8:W:116:ILE:HG13	1.97	0.47
8:Z:103:VAL:HG21	10:q:9:MET:CB	2.43	0.47
10:o:18:GLN:HE21	10:o:41:LEU:HG	1.78	0.47
10:p:83:GLN:HG2	10:p:84:GLN:H	1.79	0.47
1:0:89:THR:HG21	1:0:94:ASP:HB2	1.97	0.47
1:6:56:SER:O	1:6:57:SER:C	2.57	0.47
1:ZC:40:VAL:HG23	1:ZC:75:VAL:HB	1.97	0.47
1:ZD:28:ASN:OD1	2:ZI:52:VAL:CG1	2.54	0.47
2:ZG:195:ASP:O	2:ZG:215:SER:OG	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZH:17:LEU:HD13	2:ZM:395:ILE:CD1	2.45	0.47
2:ZI:77:ILE:HG12	2:ZI:356:LEU:CD2	2.45	0.47
2:ZM:267:MET:HE2	2:ZM:269:GLN:NE2	2.29	0.47
2:ZN:41:ASP:N	2:ZN:41:ASP:OD2	2.42	0.47
2:ZN:380:ARG:HD2	2:ZT:396:LEU:HB3	1.95	0.47
2:ZS:188:ASP:HA	2:ZS:257:ALA:HB2	1.96	0.47
1:s:80:LEU:C	1:s:82:SER:N	2.71	0.47
1:t:43:ASP:CB	10:o:28:ASN:HD21	2.25	0.47
1:x:3:SER:C	1:x:5:LEU:N	2.72	0.47
1:x:153:ARG:HE	1:x:213:LEU:HD13	1.79	0.47
1:y:120:PHE:CD1	1:y:136:VAL:HG21	2.50	0.47
3:B:8:MET:O	3:B:9:MET:C	2.57	0.47
7:Q:23:GLN:NE2	8:V:125:MET:HE1	2.30	0.47
7:R:117:GLN:HE22	8:X:127:LEU:HD21	1.80	0.47
10:q:147:ASN:O	10:q:148:PRO:C	2.58	0.47
1:0:2:ILE:HG13	10:p:70:GLN:OE1	2.15	0.47
1:1:18:ASN:O	1:1:22:ILE:HG13	2.15	0.47
1:4:58:GLU:OE1	10:o:160:ARG:NH1	2.47	0.47
1:4:238:ARG:O	1:4:242:ILE:HG12	2.15	0.47
1:5:226:VAL:CG1	1:ZA:242:ILE:HG21	2.45	0.47
1:7:115:THR:HB	1:7:191:LEU:HD23	1.96	0.47
1:8:41:PHE:HA	1:8:74:PRO:HA	1.96	0.47
2:ZI:204:LYS:O	2:ZI:205:ASP:C	2.58	0.47
2:ZQ:102:LEU:O	2:ZV:322:ASN:HB2	2.15	0.47
2:ZQ:194:HIS:CE1	2:ZQ:251:ILE:HD12	2.50	0.47
2:ZR:181:LYS:HD3	2:Zc:129:GLN:NE2	2.30	0.47
2:ZS:149:THR:HG21	2:ZS:186:VAL:HG12	1.97	0.47
2:ZT:143:LEU:HD21	2:ZT:286:PRO:HB3	1.97	0.47
2:ZW:269:GLN:HG2	2:Zc:286:PRO:HG2	1.96	0.47
2:ZX:56:GLY:HA2	2:Zc:47:LYS:NZ	2.29	0.47
1:s:256:LYS:HG2	10:n:228:GLU:HA	1.98	0.47
1:t:1:MET:HE1	8:X:75:LYS:HD3	1.97	0.47
1:t:196:GLN:C	1:t:198:SER:H	2.23	0.47
1:w:188:GLY:O	1:w:190:ASN:N	2.47	0.47
1:w:258:THR:HG23	10:q:229:MET:N	2.30	0.47
3:C:31:THR:O	3:C:35:ILE:HG12	2.14	0.47
7:T:106:ARG:NH2	10:p:241:GLU:OE1	2.48	0.47
8:X:10:ALA:HB3	8:X:119:LEU:HG	1.97	0.47
1:0:257:LEU:HD21	10:p:214:VAL:CA	2.45	0.46
1:2:86:LEU:HG	1:ZD:45:LEU:HD12	1.97	0.46
1:2:232:ASN:O	1:2:236:VAL:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:44:LEU:HD23	1:4:44:LEU:HA	1.75	0.46
1:6:158:SER:HB3	1:6:167:PRO:HB2	1.96	0.46
1:ZA:12:LEU:HD13	2:ZF:399:LEU:HD11	1.97	0.46
1:ZA:76:ALA:HB1	2:ZF:47:LYS:HD3	1.96	0.46
1:ZB:95:VAL:O	1:ZB:118:GLY:HA3	2.14	0.46
1:ZD:50:ARG:HB2	1:ZD:66:LEU:H	1.80	0.46
2:ZG:397:ASN:O	2:ZG:400:VAL:N	2.47	0.46
2:ZL:373:VAL:O	2:ZL:375:MET:N	2.47	0.46
2:ZM:109:VAL:HG12	2:ZM:115:GLN:HA	1.98	0.46
2:ZO:331:ASP:HA	2:ZT:40:ALA:HB1	1.97	0.46
2:ZP:14:ALA:HB2	2:ZP:382:TYR:HE2	1.79	0.46
2:ZP:25:ALA:HB1	2:ZU:52:VAL:CG1	2.44	0.46
2:ZQ:181:LYS:HZ2	2:Zb:129:GLN:NE2	2.09	0.46
2:ZS:271:THR:OG1	2:ZS:273:ALA:O	2.29	0.46
2:ZV:93:PHE:HB3	2:ZV:333:VAL:CG2	2.46	0.46
2:Zf:297:ASP:OD1	2:Zf:297:ASP:N	2.36	0.46
2:Zg:146:ALA:HB2	2:Zg:286:PRO:HD3	1.95	0.46
2:Zg:294:ILE:HG12	2:Zg:300:VAL:HG22	1.97	0.46
1:s:68:ILE:HG23	10:n:21:VAL:CG2	2.45	0.46
1:t:126:GLY:CA	1:y:179:MET:HE3	2.45	0.46
1:u:229:GLU:O	1:u:233:MET:HG3	2.15	0.46
1:z:70:THR:CG2	10:o:71:LEU:CD1	2.77	0.46
3:A:84:LEU:HB3	5:G:238:SER:OG	2.14	0.46
3:B:6:VAL:HG21	5:I:228:LEU:HD21	1.96	0.46
3:B:85:PRO:HB3	5:H:242:SER:HA	1.96	0.46
3:D:81:PHE:CE2	5:J:189:ILE:HD13	2.50	0.46
5:F:75:ARG:HD3	5:F:89:LEU:HD11	1.97	0.46
5:H:101:MET:HE3	5:H:101:MET:HB3	1.77	0.46
5:H:138:MET:HE2	5:H:170:LEU:HG	1.98	0.46
7:T:95:LEU:HD13	9:j:326:ALA:HB3	1.98	0.46
10:o:83:GLN:HG2	10:o:84:GLN:N	2.30	0.46
1:4:153:ARG:NH1	1:ZA:132:GLY:O	2.48	0.46
1:4:260:LEU:HD12	1:y:245:LYS:HE2	1.96	0.46
2:ZH:206:ASN:HD21	2:ZN:253:GLY:HA3	1.80	0.46
2:ZI:183:THR:HG22	2:ZI:197:ASN:ND2	2.30	0.46
2:ZK:374:ASN:O	2:ZK:375:MET:C	2.58	0.46
2:ZL:28:ALA:O	2:ZQ:39:PHE:HD2	1.97	0.46
2:ZQ:382:TYR:HE1	2:ZV:399:LEU:CD2	2.28	0.46
2:ZU:182:GLY:HA2	2:Zf:131:GLY:CA	2.22	0.46
2:ZY:210:VAL:HB	2:ZY:228:THR:HG22	1.97	0.46
2:ZZ:234:GLU:HB3	2:Zf:255:THR:OG1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Ze:44:ALA:HB3	2:Ze:50:LEU:HD11	1.97	0.46
1:s:62:LEU:HD11	8:X:84:LEU:CD1	2.45	0.46
1:x:249:THR:O	1:x:253:MET:HG3	2.16	0.46
1:z:193:ILE:CD1	10:o:152:PRO:HG2	2.45	0.46
3:C:24:LEU:HD11	3:C:62:ILE:HD11	1.96	0.46
4:E:144:LEU:HD11	5:J:146:ASP:OD1	2.15	0.46
8:X:3:LEU:O	8:X:4:LEU:C	2.58	0.46
10:p:84:GLN:C	10:p:86:GLY:H	2.23	0.46
1:2:1:MET:HB2	1:r:226:VAL:CG2	2.45	0.46
1:2:38:ARG:NH2	1:x:32:ASN:HD21	2.13	0.46
1:4:45:LEU:HD22	1:t:98:LYS:CG	2.45	0.46
1:ZA:128:LEU:HD12	1:ZA:140:ILE:HB	1.97	0.46
1:ZA:237:GLN:OE1	2:ZF:391:THR:HG23	2.16	0.46
2:ZF:33:LYS:O	2:ZF:59:GLN:NE2	2.48	0.46
2:ZG:358:ASN:OD1	2:ZG:359:GLY:N	2.47	0.46
2:ZH:83:PHE:HB2	2:ZH:95:SER:O	2.15	0.46
2:ZI:109:VAL:HG12	2:ZI:115:GLN:HA	1.97	0.46
2:ZP:314:GLN:NE2	2:ZP:347:THR:OG1	2.47	0.46
2:ZS:392:GLN:HA	2:ZS:395:ILE:HD12	1.97	0.46
2:ZU:69:THR:HG22	2:ZU:71:ARG:H	1.79	0.46
2:ZU:380:ARG:NH1	2:Za:393:ASP:OD1	2.49	0.46
2:ZV:147:LYS:NZ	2:ZV:148:SER:O	2.43	0.46
2:ZX:245:ASN:C	2:ZX:246:ILE:HD13	2.40	0.46
2:ZX:307:GLU:OE1	2:ZX:307:GLU:O	2.33	0.46
2:Zc:93:PHE:CD1	2:Zc:114:MET:HE1	2.50	0.46
2:Zf:47:LYS:HE3	2:Zf:47:LYS:HB2	1.80	0.46
1:t:11:GLY:O	1:t:15:GLN:HG2	2.15	0.46
1:t:41:PHE:O	10:o:31:THR:HG23	2.15	0.46
1:v:208:LEU:O	1:v:209:ASN:HB3	2.15	0.46
1:w:184:LEU:HB3	1:w:192:TYR:HB3	1.97	0.46
3:C:84:LEU:HD11	5:I:185:ILE:HG23	1.97	0.46
5:F:68:ILE:HD12	5:F:68:ILE:HA	1.82	0.46
5:J:139:LEU:O	5:J:141:GLN:N	2.49	0.46
7:T:96:ASP:OD2	7:T:96:ASP:N	2.48	0.46
8:X:43:ARG:HD2	8:X:69:GLU:OE2	2.14	0.46
8:a:22:ASN:HD21	10:q:54:ARG:HH12	1.63	0.46
1:3:194:GLU:OE2	1:3:201:PRO:HD3	2.16	0.46
1:5:100:GLN:HG3	1:5:100:GLN:O	2.14	0.46
1:8:257:LEU:HG	1:x:230:LEU:HD12	1.96	0.46
1:ZC:95:VAL:HG11	1:ZC:214:LEU:HD23	1.98	0.46
1:ZC:252:GLN:O	1:ZC:256:LYS:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZD:163:GLY:O	1:ZD:164:GLN:C	2.59	0.46
2:ZF:210:VAL:O	2:ZF:227:SER:N	2.48	0.46
2:ZF:233:ASN:HD21	2:ZF:237:ILE:HB	1.80	0.46
2:ZF:269:GLN:OE1	2:ZL:286:PRO:HG3	2.15	0.46
2:ZJ:159:ASN:HB3	2:ZJ:162:ASP:OD2	2.15	0.46
2:ZL:140:PRO:HD2	2:ZL:312:LEU:HD22	1.98	0.46
2:ZL:208:TRP:HE1	2:ZL:268:GLN:CD	2.23	0.46
2:ZN:380:ARG:HD3	2:ZN:380:ARG:HA	1.68	0.46
2:ZR:212:THR:HG21	2:ZR:246:ILE:HG13	1.97	0.46
2:ZS:143:LEU:HD23	2:ZS:143:LEU:H	1.80	0.46
2:ZT:17:LEU:HD13	2:ZY:395:ILE:HD13	1.94	0.46
2:ZU:269:GLN:HG3	2:Za:286:PRO:HG2	1.97	0.46
2:ZV:390:LYS:HB2	2:Za:402:LEU:HD22	1.96	0.46
2:ZZ:99:GLN:HB3	2:ZZ:111:MET:HE3	1.96	0.46
2:Zg:328:SER:HG	2:Zg:334:TRP:CD1	2.32	0.46
1:r:29:VAL:HG12	1:w:235:GLN:HE22	1.81	0.46
1:r:61:THR:OG1	1:r:62:LEU:N	2.46	0.46
1:u:113:ALA:HB1	1:u:191:LEU:HB3	1.96	0.46
1:u:178:PHE:CE1	1:u:184:LEU:HD21	2.50	0.46
1:v:200:ALA:HB1	1:v:201:PRO:HD2	1.97	0.46
1:w:142:ILE:HD13	1:w:149:ILE:HD13	1.96	0.46
1:x:188:GLY:O	1:x:190:ASN:N	2.48	0.46
3:B:9:MET:HA	3:B:12:GLU:OE1	2.15	0.46
5:J:139:LEU:C	5:J:141:GLN:N	2.74	0.46
10:q:52:ALA:C	10:q:54:ARG:H	2.23	0.46
1:0:70:THR:HG21	10:p:71:LEU:HB2	1.96	0.46
1:0:242:ILE:CD1	1:v:230:LEU:HD11	2.42	0.46
1:4:173:LEU:HD23	1:4:214:LEU:HD13	1.97	0.46
1:5:70:THR:HG23	1:u:85:ASN:OD1	2.15	0.46
1:6:95:VAL:O	1:6:118:GLY:HA3	2.15	0.46
1:7:94:ASP:OD2	1:ZC:38:ARG:NH1	2.43	0.46
1:ZA:44:LEU:HD23	1:ZA:44:LEU:HA	1.81	0.46
1:ZE:5:LEU:HB2	1:ZE:250:THR:HG21	1.98	0.46
2:ZF:117:THR:HA	2:ZF:136:PRO:HA	1.97	0.46
2:ZH:380:ARG:NH1	2:ZN:393:ASP:OD1	2.48	0.46
2:ZI:197:ASN:HD22	2:ZI:197:ASN:N	2.14	0.46
2:ZI:234:GLU:HB3	2:ZO:255:THR:OG1	2.15	0.46
2:ZJ:24:ILE:O	2:ZJ:27:SER:OG	2.32	0.46
2:ZL:318:ALA:HB1	2:ZL:343:ALA:HB1	1.98	0.46
2:ZL:368:LEU:HD12	2:ZL:368:LEU:HA	1.68	0.46
2:ZM:217:ASP:HB3	2:ZM:220:ALA:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZN:235:ASN:C	2:ZT:190:GLN:HE22	2.24	0.46
2:ZO:196:MET:HE3	2:ZO:248:THR:HG22	1.98	0.46
2:ZO:268:GLN:HE22	2:ZU:190:GLN:NE2	2.12	0.46
2:ZP:144:MET:SD	2:ZP:306:ASN:ND2	2.77	0.46
2:ZQ:369:SER:HA	2:Zb:399:LEU:CD1	2.42	0.46
2:ZR:269:GLN:HE22	2:ZX:145:ALA:HB1	1.81	0.46
2:ZU:109:VAL:HG12	2:ZU:115:GLN:HA	1.98	0.46
2:ZU:270:ASN:CG	2:Za:191:GLY:O	2.59	0.46
2:ZV:372:LEU:HD13	2:Zg:399:LEU:HB3	1.97	0.46
2:Za:16:ASN:O	2:Za:20:ILE:HG12	2.15	0.46
2:Zc:382:TYR:CG	2:Zh:395:ILE:CD1	2.99	0.46
2:Zd:60:ASP:O	2:Zd:365:ASN:ND2	2.48	0.46
4:E:72:TRP:HE1	4:E:161:SER:HB2	1.80	0.46
4:E:103:GLY:O	4:E:106:MET:HB2	2.16	0.46
5:F:189:ILE:O	5:F:192:PRO:HD2	2.14	0.46
5:F:190:PHE:CG	5:G:220:PRO:HG3	2.51	0.46
5:H:46:VAL:HG22	6:N:42:LEU:CD1	2.45	0.46
7:R:92:GLN:HE22	8:X:22:ASN:HB2	1.80	0.46
8:Y:4:LEU:HD21	8:Y:126:MET:HE1	1.96	0.46
1:4:126:GLY:HA3	1:9:179:MET:CE	2.46	0.46
1:ZD:59:GLN:N	1:ZD:59:GLN:OE1	2.49	0.46
2:ZJ:146:ALA:HB2	2:ZJ:286:PRO:HD3	1.98	0.46
2:ZL:233:ASN:OD1	2:ZL:237:ILE:N	2.48	0.46
2:ZP:28:ALA:O	2:ZU:39:PHE:CD2	2.69	0.46
2:ZQ:382:TYR:HE1	2:ZV:399:LEU:HD21	1.81	0.46
2:ZS:394:GLN:O	2:ZS:398:THR:HG22	2.16	0.46
2:ZY:210:VAL:O	2:ZY:227:SER:N	2.49	0.46
1:s:62:LEU:CG	8:X:84:LEU:HD11	2.45	0.46
1:v:158:SER:HB3	1:v:167:PRO:HB2	1.97	0.46
1:x:42:GLU:OE1	1:x:75:VAL:HG21	2.15	0.46
1:x:123:ASP:O	1:x:124:GLN:C	2.59	0.46
5:F:150:PHE:CZ	5:F:172:PRO:HB2	2.51	0.46
5:G:171:LEU:HB3	5:G:172:PRO:HD3	1.97	0.46
5:H:40:LEU:HD22	7:S:8:ALA:HB2	1.96	0.46
5:J:159:LEU:HD13	5:J:165:VAL:HG22	1.98	0.46
7:R:29:ASN:HD21	7:R:41:ARG:H	1.61	0.46
7:S:93:PRO:HB2	10:o:46:VAL:HG12	1.97	0.46
8:V:36:GLY:HA2	8:a:51:VAL:HG12	1.97	0.46
8:a:109:SER:HA	10:q:240:ASN:HD21	1.80	0.46
10:m:49:LEU:HD12	10:m:50:SER:HB2	1.98	0.46
10:n:82:LEU:HD11	10:n:88:LEU:HG	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:179:MET:SD	1:v:124:GLN:O	2.73	0.46
1:1:237:GLN:O	1:1:241:GLU:HG2	2.16	0.46
1:2:4:SER:OG	1:x:20:ASP:OD1	2.33	0.46
1:3:1:MET:HB3	1:s:29:VAL:HG21	1.98	0.46
1:4:86:LEU:HB2	2:ZF:42:MET:HE1	1.98	0.46
1:6:64:SER:O	1:6:64:SER:OG	2.23	0.46
1:6:260:LEU:CD1	1:v:234:ILE:HD11	2.45	0.46
1:ZE:240:TYR:HE2	2:ZJ:399:LEU:CD1	2.29	0.46
2:ZG:319:ASN:OD1	2:ZG:344:LEU:HB3	2.16	0.46
2:ZH:75:VAL:HG13	2:ZH:356:LEU:HB3	1.98	0.46
2:ZH:269:GLN:HE22	2:ZN:146:ALA:H	1.64	0.46
2:ZM:271:THR:OG1	2:ZM:273:ALA:O	2.27	0.46
2:ZU:195:ASP:OD2	2:ZU:195:ASP:N	2.40	0.46
2:ZW:199:TYR:HB2	2:ZW:211:TYR:HB2	1.98	0.46
2:Zh:374:ASN:HA	2:Zh:377:VAL:HG12	1.98	0.46
1:u:76:ALA:HA	1:z:66:LEU:HB3	1.96	0.46
1:x:3:SER:OG	10:m:70:GLN:CD	2.59	0.46
1:x:45:LEU:CD1	10:m:202:MET:CG	2.81	0.46
3:C:88:ILE:HB	5:I:181:THR:HG23	1.98	0.46
7:Q:113:SER:O	7:Q:117:GLN:HG3	2.15	0.46
7:R:109:PHE:CZ	8:W:118:VAL:HG13	2.51	0.46
7:S:128:LYS:HE2	8:X:134:GLN:CG	2.45	0.46
1:0:215:TYR:HE1	1:ZB:73:ARG:NH2	2.14	0.46
1:2:253:MET:HG2	1:x:240:TYR:CD2	2.51	0.46
1:8:260:LEU:HD13	1:x:234:ILE:HD11	1.98	0.46
2:ZF:392:GLN:HE22	2:ZF:396:LEU:HG	1.80	0.46
2:ZH:17:LEU:CD1	2:ZM:395:ILE:HD11	2.46	0.46
2:ZM:17:LEU:CD1	2:ZR:395:ILE:HD11	2.45	0.46
2:ZO:156:ILE:HA	2:ZO:277:VAL:HG23	1.98	0.46
2:ZS:317:LEU:HD11	2:ZS:356:LEU:HD21	1.98	0.46
2:ZW:314:GLN:NE2	2:ZW:347:THR:OG1	2.49	0.46
2:ZX:144:MET:HE3	2:ZX:284:TYR:CE1	2.51	0.46
2:ZY:101:LYS:NZ	2:Zd:322:ASN:HD21	2.13	0.46
2:ZY:109:VAL:HG12	2:ZY:115:GLN:HA	1.98	0.46
2:ZY:373:VAL:HG21	2:Ze:10:LEU:HD23	1.98	0.46
2:ZZ:234:GLU:O	2:Zf:190:GLN:CD	2.59	0.46
2:Za:81:GLY:HA3	2:Za:317:LEU:HD23	1.97	0.46
2:Ze:110:ASN:OD1	2:Ze:114:MET:N	2.49	0.46
1:s:65:GLY:O	10:n:60:SER:CB	2.61	0.46
1:s:122:VAL:O	1:x:180:ASN:ND2	2.49	0.46
1:s:185:GLU:HG3	1:x:67:GLN:NE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:115:THR:HB	1:u:191:LEU:HD23	1.97	0.46
1:w:70:THR:HG21	8:a:76:LEU:O	2.16	0.46
1:w:80:LEU:HG	1:w:223:ASN:HD21	1.81	0.46
1:x:147:LEU:HD11	1:x:162:GLN:HB2	1.98	0.46
3:C:29:LEU:HB2	3:D:52:ILE:HG13	1.97	0.46
5:F:149:LEU:HD22	5:G:233:GLN:HG3	1.96	0.46
5:H:132:GLN:O	5:H:135:ARG:HG2	2.15	0.46
8:W:4:LEU:HB3	8:W:7:PHE:HB2	1.98	0.46
1:2:1:MET:HB2	1:r:226:VAL:HG21	1.98	0.46
1:2:79:ARG:HH11	1:2:79:ARG:HG3	1.81	0.46
1:4:56:SER:CA	10:o:138:ALA:CB	2.94	0.46
1:5:19:MET:HB2	1:5:236:VAL:HG11	1.97	0.46
1:7:49:ILE:CD1	1:r:90:ASN:HD21	2.29	0.46
1:ZB:27:ALA:O	2:ZG:52:VAL:HG11	2.16	0.46
1:ZB:56:SER:HA	1:v:152:GLY:HA2	1.96	0.46
2:ZM:374:ASN:O	2:ZM:375:MET:C	2.59	0.46
2:ZP:245:ASN:C	2:ZP:246:ILE:HD13	2.40	0.46
2:ZQ:380:ARG:HD3	2:ZQ:380:ARG:HA	1.70	0.46
2:ZS:180:LYS:HD2	2:ZS:181:LYS:N	2.30	0.46
2:ZU:107:ASN:ND2	2:ZU:138:THR:HG22	2.31	0.46
2:ZY:111:MET:CE	2:Zd:58:THR:OG1	2.63	0.46
2:ZY:184:VAL:HG13	2:ZY:196:MET:HB2	1.97	0.46
2:Ze:269:GLN:HG2	2:Ze:270:ASN:H	1.80	0.46
2:Zf:101:LYS:HD3	2:Zf:102:LEU:N	2.31	0.46
2:Zh:269:GLN:HG2	2:Zh:270:ASN:H	1.80	0.46
1:s:22:ILE:HG21	1:s:233:MET:HG3	1.98	0.46
1:s:62:LEU:HD12	8:X:35:THR:HG21	1.98	0.46
1:s:179:MET:SD	10:n:132:GLY:CA	3.03	0.46
1:v:62:LEU:CG	8:a:84:LEU:HD11	2.46	0.46
1:y:115:THR:HB	1:y:191:LEU:HD23	1.97	0.46
5:F:100:ILE:HG23	5:F:101:MET:HE2	1.98	0.46
5:H:109:TYR:HA	5:H:113:TYR:HB3	1.98	0.46
5:J:83:ALA:CB	5:J:84:PRO:CD	2.94	0.46
6:M:82:MET:HE3	7:R:133:VAL:CG2	2.46	0.46
8:Y:103:VAL:HG21	10:p:9:MET:HB2	1.98	0.46
1:3:128:LEU:O	1:3:136:VAL:HG12	2.16	0.46
1:5:257:LEU:O	1:5:260:LEU:HB2	2.16	0.46
2:ZG:264:LEU:HD12	2:ZG:265:ASN:N	2.30	0.46
2:ZI:234:GLU:HG3	2:ZO:253:GLY:O	2.15	0.46
2:ZM:213:HIS:HB2	2:ZM:223:PRO:HG3	1.98	0.46
2:ZP:380:ARG:HD3	2:ZP:380:ARG:HA	1.67	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZX:96:ARG:NH2	2:ZX:362:GLU:OE2	2.40	0.46
2:Zd:3:PHE:O	2:Zd:7:VAL:HG13	2.16	0.46
2:Zh:344:LEU:HD12	2:Zh:344:LEU:HA	1.80	0.46
1:r:205:THR:HB	1:r:208:LEU:HD12	1.98	0.46
1:s:180:ASN:O	1:s:198:SER:HB3	2.16	0.46
1:u:46:TYR:HH	10:p:34:PHE:HE1	1.64	0.46
4:E:86:PHE:CZ	5:F:91:GLY:HA3	2.51	0.46
5:H:44:THR:HG23	7:S:133:VAL:HG11	1.96	0.46
8:a:19:LYS:HD3	10:q:51:LEU:CD1	2.44	0.46
8:a:88:ASN:HB2	8:a:90:TYR:CD2	2.50	0.46
10:m:110:THR:HG23	10:m:112:GLN:HG2	1.97	0.46
1:0:129:VAL:HG12	1:0:135:GLN:HA	1.97	0.45
1:0:227:ALA:HA	1:ZB:257:LEU:HD21	1.98	0.45
1:1:67:GLN:HE22	1:w:185:GLU:HA	1.81	0.45
2:ZH:380:ARG:HB3	2:ZN:396:LEU:HD13	1.97	0.45
2:ZM:18:ASP:C	2:ZR:5:GLN:HE22	2.24	0.45
2:ZP:16:ASN:HB2	2:ZP:39:PHE:HZ	1.79	0.45
2:ZQ:155:GLN:HE21	2:ZQ:277:VAL:HB	1.79	0.45
2:ZS:314:GLN:NE2	2:ZS:347:THR:OG1	2.47	0.45
2:ZT:70:GLY:O	2:ZT:71:ARG:C	2.58	0.45
2:ZY:83:PHE:HB2	2:ZY:95:SER:O	2.16	0.45
2:ZZ:5:GLN:HG2	2:ZZ:50:LEU:O	2.16	0.45
2:Za:376:ILE:HG23	2:Zg:393:ASP:OD2	2.16	0.45
2:Zb:234:GLU:HG3	2:Zh:253:GLY:O	2.17	0.45
2:Zb:380:ARG:HD2	2:Zh:396:LEU:HB3	1.98	0.45
1:s:157:VAL:O	1:s:170:VAL:N	2.49	0.45
1:y:6:TRP:CE3	10:n:72:ASP:HB3	2.51	0.45
1:y:25:ASN:HD21	1:y:37:GLN:H	1.64	0.45
5:F:230:ASP:O	5:F:234:LEU:HG	2.15	0.45
6:K:77:LYS:O	6:K:78:ALA:C	2.59	0.45
7:S:31:ALA:CB	8:X:13:ALA:HB2	2.42	0.45
8:Z:68:ILE:HD11	9:k:312:VAL:HG22	1.98	0.45
8:a:67:VAL:HG11	10:q:53:THR:HG22	1.98	0.45
1:0:20:ASP:OD1	1:5:3:SER:OG	2.34	0.45
1:3:1:MET:HE3	1:s:29:VAL:HG21	1.97	0.45
1:4:9:LYS:HB2	1:y:231:VAL:HG11	1.98	0.45
1:6:44:LEU:HD23	1:6:44:LEU:HA	1.83	0.45
1:8:56:SER:O	1:s:152:GLY:C	2.59	0.45
1:8:180:ASN:OD1	1:8:183:GLY:N	2.44	0.45
1:ZB:56:SER:HA	1:v:152:GLY:HA3	1.98	0.45
1:ZC:80:LEU:HD23	1:ZC:80:LEU:HA	1.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZC:85:ASN:HD22	2:ZN:4:SER:HB2	1.81	0.45
2:ZK:262:SER:OG	2:ZK:264:LEU:HG	2.16	0.45
2:ZL:104:GLU:H	2:ZL:104:GLU:CD	2.24	0.45
2:ZQ:93:PHE:HB3	2:ZQ:333:VAL:HG13	1.97	0.45
2:ZQ:379:GLN:NE2	2:ZV:394:GLN:NE2	2.64	0.45
2:ZX:41:ASP:OD1	2:ZX:41:ASP:N	2.42	0.45
2:ZY:194:HIS:CE1	2:ZY:251:ILE:HD12	2.51	0.45
2:Zf:5:GLN:HG2	2:Zf:50:LEU:O	2.15	0.45
1:s:16:GLN:HE21	1:s:16:GLN:HB2	1.48	0.45
1:s:185:GLU:HB2	1:s:195:THR:CG2	2.46	0.45
1:s:188:GLY:O	1:s:190:ASN:N	2.49	0.45
1:v:98:LYS:N	1:v:213:LEU:O	2.40	0.45
3:A:54:LYS:HB3	5:G:207:LEU:CD2	2.46	0.45
3:A:81:PHE:CD2	5:G:234:LEU:HB3	2.51	0.45
3:A:84:LEU:HD11	5:G:185:ILE:HG23	1.97	0.45
3:A:88:ILE:HG21	5:G:242:SER:HB2	1.97	0.45
3:D:2:THR:O	3:D:5:SER:OG	2.24	0.45
4:E:39:PRO:HB3	6:O:102:MET:SD	2.56	0.45
5:G:49:THR:CG2	6:M:89:ARG:HG3	2.46	0.45
5:H:90:LEU:HD13	6:M:100:MET:HA	1.98	0.45
8:V:30:ASN:ND2	8:a:62:VAL:HB	2.31	0.45
10:n:243:ARG:O	10:n:246:GLN:HG2	2.16	0.45
10:q:50:SER:OG	10:q:51:LEU:HG	2.16	0.45
1:2:64:SER:O	1:x:76:ALA:HB1	2.17	0.45
1:3:1:MET:HB3	1:s:29:VAL:CG2	2.46	0.45
1:3:98:LYS:HB3	1:3:213:LEU:HB2	1.98	0.45
1:5:29:VAL:O	1:5:222:SER:OG	2.33	0.45
1:5:184:LEU:HB3	1:5:192:TYR:HB3	1.99	0.45
1:ZA:70:THR:HG22	1:ZA:71:GLY:N	2.29	0.45
2:ZG:331:ASP:OD1	2:ZL:53:LYS:NZ	2.30	0.45
2:ZK:93:PHE:HB3	2:ZK:333:VAL:HG13	1.98	0.45
2:ZU:372:LEU:CD1	2:Zf:396:LEU:CD2	2.92	0.45
2:ZW:122:THR:OG1	2:ZW:129:GLN:NE2	2.50	0.45
2:ZX:331:ASP:OD1	2:Zc:53:LYS:NZ	2.49	0.45
2:ZY:399:LEU:HD23	2:ZY:399:LEU:HA	1.84	0.45
2:ZZ:205:ASP:CG	2:Zf:252:ASN:HA	2.40	0.45
2:Ze:383:GLN:O	2:Ze:387:GLN:HG2	2.16	0.45
2:Zf:378:ALA:O	2:Zf:379:GLN:C	2.59	0.45
2:Zg:29:THR:HB	2:Zg:32:PHE:HB2	1.98	0.45
1:r:43:ASP:OD1	1:r:43:ASP:N	2.45	0.45
1:s:36:ARG:HD3	1:s:80:LEU:HD22	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:179:MET:HE3	10:n:131:GLU:HB2	1.99	0.45
1:t:147:LEU:HB2	1:t:160:THR:HG23	1.98	0.45
1:t:228:GLU:HG3	1:z:9:LYS:HE3	1.99	0.45
1:v:159:VAL:O	1:v:168:VAL:HG22	2.17	0.45
1:w:44:LEU:HB2	1:w:70:THR:HB	1.97	0.45
1:w:251:ASP:HB2	10:q:221:ILE:HG21	1.97	0.45
1:x:3:SER:O	1:x:4:SER:C	2.59	0.45
1:x:87:SER:OG	1:x:88:GLN:N	2.47	0.45
6:L:84:MET:HE2	6:L:84:MET:HB2	1.87	0.45
6:P:62:GLY:HA2	9:b:318:ASN:ND2	2.31	0.45
6:P:75:MET:HE2	6:P:75:MET:HB2	1.81	0.45
7:R:109:PHE:CD2	10:n:248:LEU:HD22	2.52	0.45
7:R:117:GLN:NE2	8:X:127:LEU:HD21	2.31	0.45
7:S:92:GLN:CG	10:o:53:THR:OG1	2.61	0.45
8:X:37:PRO:O	9:f:330:THR:OG1	2.33	0.45
10:q:64:ALA:HB2	10:q:173:ARG:HH21	1.80	0.45
1:l:251:ASP:CG	1:v:238:ARG:HH21	2.23	0.45
1:4:44:LEU:HD22	1:t:86:LEU:HD12	1.98	0.45
1:8:255:GLN:O	1:8:259:GLN:HG2	2.16	0.45
2:ZJ:183:THR:HG22	2:ZU:131:GLY:O	2.16	0.45
2:ZJ:265:ASN:OD1	2:ZJ:265:ASN:O	2.35	0.45
2:ZN:230:LEU:HD12	2:ZN:230:LEU:HA	1.85	0.45
2:ZP:17:LEU:CD1	2:ZU:395:ILE:HD11	2.45	0.45
2:ZQ:42:MET:HE2	2:ZQ:50:LEU:HD22	1.98	0.45
2:ZR:125:PRO:HA	2:ZR:126:PRO:HD3	1.92	0.45
2:ZS:156:ILE:HG13	2:ZS:276:ILE:HA	1.98	0.45
2:ZX:230:LEU:HD22	2:ZX:238:LEU:HD11	1.98	0.45
2:ZY:33:LYS:NZ	2:ZY:362:GLU:OE2	2.49	0.45
2:ZZ:63:ASP:OD2	2:ZZ:79:GLN:N	2.50	0.45
2:Zf:38:SER:O	2:Zf:55:ALA:N	2.47	0.45
1:r:79:ARG:NH1	1:r:184:LEU:O	2.47	0.45
1:r:122:VAL:HG11	1:r:142:ILE:HD12	1.97	0.45
1:t:35:LYS:HG3	1:t:81:HIS:ND1	2.32	0.45
1:v:246:ALA:HB2	10:q:220:MET:CE	2.47	0.45
1:z:238:ARG:O	1:z:242:ILE:HG12	2.17	0.45
3:D:45:ASN:HB2	4:E:210:GLN:OE1	2.17	0.45
5:F:59:LEU:HD12	5:G:88:VAL:CG2	2.46	0.45
5:H:59:LEU:HD22	5:I:88:VAL:HG23	1.99	0.45
6:O:72:MET:HE3	8:Z:130:LEU:CD2	2.47	0.45
8:X:113:GLN:HE21	10:n:240:ASN:HD22	1.64	0.45
8:Z:30:ASN:ND2	10:p:57:VAL:HB	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:a:120:ASN:HA	8:a:123:LYS:HE2	1.98	0.45
10:o:14:GLN:HG3	10:o:58:THR:HA	1.97	0.45
1:1:9:LYS:HB2	1:v:231:VAL:HG11	1.97	0.45
1:1:86:LEU:HD12	1:ZC:44:LEU:HD22	1.96	0.45
1:2:257:LEU:HG	1:r:230:LEU:CD1	2.43	0.45
1:4:238:ARG:HH21	1:ZA:251:ASP:CG	2.19	0.45
1:5:100:GLN:HE21	1:5:177:THR:HG21	1.82	0.45
1:6:218:TYR:CZ	2:ZH:53:LYS:HG3	2.49	0.45
1:7:106:MET:HE3	1:7:110:GLY:HA2	1.98	0.45
2:ZJ:24:ILE:HD13	2:ZO:384:SER:OG	2.16	0.45
2:ZJ:269:GLN:OE1	2:ZP:190:GLN:HA	2.17	0.45
2:ZM:380:ARG:NE	2:ZS:393:ASP:OD1	2.47	0.45
2:ZT:380:ARG:HH21	2:ZZ:397:ASN:ND2	2.14	0.45
2:ZV:119:TYR:HB2	2:ZV:314:GLN:HB3	1.99	0.45
2:ZW:183:THR:CG2	2:Zh:132:ALA:HA	2.47	0.45
2:ZX:269:GLN:HG2	2:Zd:190:GLN:O	2.16	0.45
1:r:50:ARG:NH2	10:m:58:THR:CG2	2.79	0.45
1:s:147:LEU:HB2	1:s:160:THR:HG23	1.98	0.45
1:v:62:LEU:HG	8:a:84:LEU:CD1	2.45	0.45
1:v:179:MET:CE	10:q:131:GLU:HG2	2.46	0.45
1:w:237:GLN:O	1:w:241:GLU:HG3	2.17	0.45
1:x:44:LEU:HD21	1:x:73:ARG:HD3	1.99	0.45
1:x:140:ILE:HG21	1:x:157:VAL:HG11	1.98	0.45
4:E:158:PRO:HD2	4:E:162:ASN:ND2	2.32	0.45
5:F:45:LEU:HD13	6:L:86:ILE:HG12	1.98	0.45
5:G:97:THR:O	5:G:101:MET:HG2	2.16	0.45
5:J:83:ALA:O	5:J:85:PRO:N	2.50	0.45
6:L:87:GLN:NE2	7:R:134:LEU:O	2.49	0.45
7:Q:104:ARG:O	7:Q:108:GLN:HG2	2.17	0.45
9:d:328:ILE:HG22	10:m:42:ARG:NH1	2.31	0.45
1:1:1:MET:CA	10:q:211:VAL:O	2.64	0.45
1:4:95:VAL:O	1:4:118:GLY:HA3	2.16	0.45
1:4:237:GLN:HB2	1:9:249:THR:HG23	1.98	0.45
1:8:45:LEU:HD23	1:8:45:LEU:HA	1.81	0.45
1:9:85:ASN:HB3	2:ZK:4:SER:CB	2.46	0.45
1:ZA:37:GLN:NE2	1:ZA:77:THR:OG1	2.50	0.45
1:ZD:185:GLU:OE1	2:ZI:46:SER:HB2	2.16	0.45
1:ZE:235:GLN:NE2	2:ZK:7:VAL:HG21	2.32	0.45
2:ZI:18:ASP:HB3	2:ZN:5:GLN:HE22	1.81	0.45
2:ZJ:74:ASP:O	2:ZJ:359:GLY:N	2.36	0.45
2:ZK:204:LYS:HZ2	2:ZK:207:GLU:HG3	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZN:99:GLN:HG2	2:ZN:361:LEU:HD11	1.98	0.45
2:ZS:10:LEU:HD11	2:ZS:382:TYR:CE1	2.52	0.45
2:ZT:16:ASN:HB2	2:ZT:39:PHE:HZ	1.81	0.45
2:ZU:10:LEU:HD23	2:ZU:10:LEU:HA	1.84	0.45
2:ZV:18:ASP:HB3	2:Za:5:GLN:NE2	2.31	0.45
2:Zd:184:VAL:HG13	2:Zd:196:MET:HB2	1.98	0.45
1:s:76:ALA:HA	1:x:66:LEU:HB3	1.98	0.45
1:t:7:ILE:HG21	10:o:24:SER:CA	2.46	0.45
1:u:174:ASN:HA	1:u:206:PRO:HD3	1.99	0.45
1:v:130:THR:OG1	1:v:131:ALA:N	2.50	0.45
1:z:47:GLN:HB2	10:o:68:PRO:HG2	1.98	0.45
3:B:3:PRO:HB3	3:C:70:LEU:HD23	1.99	0.45
4:E:66:PHE:O	7:Q:4:ARG:HG3	2.17	0.45
5:F:135:ARG:O	5:F:138:MET:N	2.50	0.45
7:S:33:ALA:O	7:S:98:ASN:ND2	2.50	0.45
8:X:34:VAL:HG21	10:n:40:ALA:HB1	1.99	0.45
10:n:151:PRO:HB2	10:n:153:ASN:OD1	2.17	0.45
10:p:76:ARG:HG2	10:p:78:LEU:H	1.82	0.45
10:q:77:PRO:O	10:q:203:SER:OG	2.34	0.45
1:1:28:ASN:ND2	1:6:43:ASP:OD1	2.49	0.45
1:2:10:THR:OG1	1:2:71:GLY:HA3	2.17	0.45
1:ZD:238:ARG:HD3	1:ZD:238:ARG:HA	1.46	0.45
1:ZE:257:LEU:HA	1:ZE:257:LEU:HD23	1.83	0.45
2:ZG:65:THR:HG22	2:ZR:50:LEU:HD22	1.98	0.45
2:ZI:8:SER:HB3	2:ZI:52:VAL:H	1.81	0.45
2:ZK:210:VAL:HB	2:ZK:228:THR:HG22	1.98	0.45
2:ZM:139:ILE:HA	2:ZM:312:LEU:HD13	1.97	0.45
2:ZP:373:VAL:O	2:ZP:375:MET:N	2.50	0.45
2:ZS:34:SER:HB3	2:ZS:366:VAL:HG22	1.98	0.45
2:Za:352:ASN:O	2:Za:352:ASN:OD1	2.35	0.45
2:Zd:5:GLN:HG2	2:Zd:50:LEU:O	2.17	0.45
1:r:242:ILE:CG2	10:m:26:LEU:HD22	2.36	0.45
1:w:102:PHE:HB3	1:w:114:TYR:HB3	1.99	0.45
3:D:6:VAL:O	3:D:9:MET:HG3	2.16	0.45
9:h:322:PRO:HD2	10:o:49:LEU:HG	1.99	0.45
9:l:324:ASN:ND2	10:q:48:GLY:HA3	2.29	0.45
1:0:226:VAL:HB	1:ZB:2:ILE:CD1	2.39	0.45
1:ZC:145:ASN:HA	2:ZH:352:ASN:ND2	2.28	0.45
2:ZF:71:ARG:HB2	2:ZF:74:ASP:OD2	2.17	0.45
2:ZF:380:ARG:HD3	2:ZF:380:ARG:HA	1.69	0.45
2:ZH:233:ASN:HD21	2:ZH:237:ILE:HB	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZM:235:ASN:ND2	2:ZS:189:SER:OG	2.50	0.45
2:ZP:73:LEU:HD21	2:ZP:292:TYR:CE1	2.52	0.45
2:ZP:382:TYR:HE1	2:ZU:399:LEU:CD1	2.30	0.45
2:ZQ:373:VAL:O	2:ZQ:377:VAL:HG23	2.17	0.45
2:ZR:178:TYR:HA	2:ZR:201:VAL:HG22	1.98	0.45
2:ZR:204:LYS:HG2	2:ZR:205:ASP:N	2.32	0.45
2:ZR:288:ASP:N	2:ZR:305:SER:OG	2.43	0.45
2:ZV:102:LEU:HD21	2:ZV:106:ARG:HA	1.98	0.45
2:ZV:382:TYR:CE1	2:Za:395:ILE:HG23	2.52	0.45
2:ZV:391:THR:O	2:ZV:395:ILE:HG12	2.16	0.45
2:ZW:10:LEU:HD21	2:Zb:399:LEU:HD21	1.97	0.45
2:Zc:210:VAL:HB	2:Zc:228:THR:HG22	1.99	0.45
2:Zd:269:GLN:HG2	2:Zd:270:ASN:H	1.82	0.45
2:Ze:107:ASN:HD22	2:Ze:138:THR:HG22	1.82	0.45
2:Zh:154:MET:HG2	2:Zh:279:THR:HG22	1.98	0.45
1:x:45:LEU:HD22	10:m:83:GLN:HA	1.97	0.45
1:z:6:TRP:CE3	10:o:70:GLN:HB3	2.43	0.45
3:A:66:GLY:O	3:A:67:PRO:C	2.59	0.45
3:B:44:ILE:HA	3:B:44:ILE:HD13	1.74	0.45
5:H:187:PHE:CE1	5:I:224:MET:HB2	2.52	0.45
5:J:142:THR:HG21	5:J:170:LEU:HD11	1.97	0.45
9:g:316:LEU:HD12	9:g:316:LEU:HA	1.78	0.45
9:h:324:ASN:ND2	10:o:47:ASP:O	2.49	0.45
10:n:107:VAL:HG22	10:n:113:LEU:CD2	2.46	0.45
10:p:10:GLY:O	10:p:14:GLN:HG2	2.16	0.45
1:0:21:VAL:HG21	1:0:39:ALA:HB2	1.99	0.45
1:2:141:THR:C	1:2:142:ILE:HD13	2.41	0.45
1:6:254:LEU:HD21	1:v:226:VAL:HG21	1.97	0.45
1:ZB:20:ASP:OD1	2:ZG:2:SER:HB2	2.17	0.45
1:ZC:88:GLN:NE2	1:ZC:218:TYR:OH	2.50	0.45
1:ZD:208:LEU:HD13	1:ZD:208:LEU:HA	1.80	0.45
2:ZF:396:LEU:HD23	2:ZF:396:LEU:HA	1.84	0.45
2:ZJ:233:ASN:ND2	2:ZJ:235:ASN:H	2.14	0.45
2:ZL:95:SER:OG	2:ZL:332:ASN:O	2.25	0.45
2:ZR:111:MET:N	2:ZR:111:MET:SD	2.90	0.45
2:ZS:86:VAL:HG23	2:ZS:117:THR:HG21	1.98	0.45
2:ZS:105:ASN:HB2	2:ZS:107:ASN:ND2	2.30	0.45
2:ZW:104:GLU:OE2	2:ZW:104:GLU:N	2.35	0.45
2:ZZ:112:GLN:OE1	2:ZZ:112:GLN:N	2.50	0.45
2:Zd:93:PHE:HB3	2:Zd:333:VAL:HG13	1.97	0.45
2:Ze:80:ASN:OD1	2:Ze:81:GLY:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:175:LEU:HD12	1:u:206:PRO:HB3	1.97	0.45
1:v:234:ILE:O	1:v:238:ARG:HG2	2.17	0.45
1:y:43:ASP:HA	1:y:72:VAL:HA	1.99	0.45
3:A:10:GLY:O	3:A:14:MET:HG2	2.16	0.45
3:B:84:LEU:HD22	5:H:185:ILE:HG23	1.99	0.45
3:C:37:ILE:HA	3:D:44:ILE:HD11	1.99	0.45
6:O:77:LYS:CE	7:U:13:GLN:NE2	2.61	0.45
8:a:30:ASN:HD21	10:q:55:THR:HG22	1.81	0.45
8:a:128:LYS:O	8:a:131:THR:HG22	2.17	0.45
10:o:10:GLY:O	10:o:14:GLN:HG2	2.17	0.45
10:p:35:ARG:O	10:p:173:ARG:NH2	2.37	0.45
1:0:49:ILE:HB	1:0:66:LEU:HG	1.98	0.45
1:0:184:LEU:HB3	1:0:192:TYR:HB3	1.98	0.45
1:1:52:PRO:CB	8:a:87:ALA:O	2.65	0.45
1:2:55:GLN:CG	10:m:142:THR:HG21	2.47	0.45
1:8:154:ASP:OD1	1:8:154:ASP:N	2.49	0.45
1:ZB:8:ALA:HB1	1:ZB:247:VAL:HG23	1.99	0.45
1:ZC:7:ILE:HG23	1:ZC:71:GLY:HA2	1.97	0.45
2:ZQ:214:ASP:OD2	2:ZQ:214:ASP:N	2.42	0.45
2:ZQ:233:ASN:ND2	2:ZQ:239:GLU:HB3	2.31	0.45
2:ZY:337:THR:HG23	2:ZY:339:ALA:H	1.82	0.45
1:s:35:LYS:HG3	1:s:81:HIS:ND1	2.31	0.45
1:s:246:ALA:CB	10:n:220:MET:SD	3.05	0.45
1:z:47:GLN:HG2	1:z:68:ILE:HB	1.99	0.45
4:E:123:PRO:HB2	4:E:126:ALA:HB3	1.99	0.45
5:J:221:PHE:O	5:J:224:MET:HE2	2.17	0.45
6:K:79:SER:HB2	6:P:91:LYS:CE	2.47	0.45
6:P:59:PHE:HZ	8:a:4:LEU:HD21	1.81	0.45
8:V:37:PRO:HD3	8:a:51:VAL:HG13	1.99	0.45
8:Y:117:GLU:OE1	10:p:249:SER:OG	2.35	0.45
1:2:1:MET:HB3	1:r:29:VAL:HG13	1.98	0.44
1:6:16:GLN:O	1:6:17:THR:C	2.58	0.44
1:6:138:PRO:O	1:6:139:ALA:HB2	2.16	0.44
1:7:1:MET:HB2	1:w:226:VAL:HG21	1.98	0.44
1:7:1:MET:HE2	1:w:29:VAL:HG11	1.98	0.44
1:8:195:THR:O	1:8:196:GLN:C	2.60	0.44
1:9:140:ILE:HG23	1:9:171:GLY:HA3	1.98	0.44
1:ZA:240:TYR:CD2	2:ZF:395:ILE:HG12	2.52	0.44
1:ZB:184:LEU:HB3	1:ZB:192:TYR:HB3	1.99	0.44
1:ZD:49:ILE:HB	1:ZD:66:LEU:HB3	1.99	0.44
1:ZE:44:LEU:HD23	1:ZE:44:LEU:HA	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZH:93:PHE:HB3	2:ZH:333:VAL:HG13	2.00	0.44
2:ZI:2:SER:O	2:ZI:2:SER:OG	2.31	0.44
2:ZI:352:ASN:OD1	2:ZI:352:ASN:N	2.49	0.44
2:ZO:180:LYS:HB3	2:ZO:200:PHE:HB2	1.98	0.44
2:ZU:3:PHE:HE2	2:ZU:396:LEU:HD12	1.82	0.44
2:ZZ:281:GLN:OE1	2:ZZ:281:GLN:N	2.50	0.44
2:Za:139:ILE:HA	2:Za:312:LEU:HD22	1.98	0.44
2:Ze:156:ILE:HD11	2:Ze:180:LYS:HE2	1.99	0.44
1:s:47:GLN:O	1:s:67:GLN:HA	2.17	0.44
1:s:62:LEU:HD12	8:X:35:THR:CG2	2.47	0.44
1:s:189:GLU:O	1:s:191:LEU:HG	2.17	0.44
1:u:6:TRP:NE1	8:Y:77:VAL:CB	2.75	0.44
1:v:200:ALA:HB1	1:v:201:PRO:CD	2.47	0.44
1:y:70:THR:HG22	10:n:71:LEU:CB	2.47	0.44
3:A:83:ASN:O	3:A:84:LEU:C	2.60	0.44
5:F:51:LEU:HD21	6:K:88:VAL:HG13	1.98	0.44
5:G:52:THR:HG22	6:L:91:LYS:CE	2.46	0.44
5:G:57:ILE:O	5:G:61:MET:HB2	2.17	0.44
5:J:86:ASN:ND2	6:O:103:GLN:HA	2.32	0.44
6:K:79:SER:HB2	6:P:91:LYS:HE3	2.00	0.44
10:n:51:LEU:O	10:n:53:THR:OG1	2.27	0.44
10:o:225:ARG:HA	10:o:225:ARG:HD3	1.67	0.44
1:1:231:VAL:HG11	1:7:9:LYS:HB2	1.99	0.44
1:7:167:PRO:HG3	2:ZI:338:GLN:OE1	2.15	0.44
1:8:85:ASN:HB3	2:ZJ:4:SER:HB2	1.98	0.44
1:ZD:66:LEU:HD23	1:ZD:66:LEU:HA	1.83	0.44
1:ZD:91:ASN:HB2	1:ZD:94:ASP:OD2	2.17	0.44
2:ZG:230:LEU:HB3	2:ZG:238:LEU:HD11	1.98	0.44
2:ZI:75:VAL:HG11	2:ZI:356:LEU:HD13	1.98	0.44
2:ZL:160:SER:HA	2:ZL:268:GLN:HE21	1.82	0.44
2:ZL:367:ASP:HB3	2:ZL:370:LYS:CG	2.46	0.44
2:ZL:380:ARG:NE	2:ZR:393:ASP:OD1	2.50	0.44
2:ZN:159:ASN:ND2	2:ZN:162:ASP:OD2	2.49	0.44
2:ZR:269:GLN:HG2	2:ZX:190:GLN:HA	2.00	0.44
2:ZY:392:GLN:HA	2:ZY:395:ILE:HD12	1.99	0.44
2:Zc:69:THR:HG21	2:Zc:361:LEU:HD12	1.99	0.44
1:r:22:ILE:HG21	1:r:233:MET:HG2	1.99	0.44
1:x:1:MET:HE3	1:x:1:MET:HB2	1.73	0.44
1:x:107:LEU:HB2	1:x:111:THR:O	2.17	0.44
4:E:75:MET:O	4:E:79:LEU:HG	2.17	0.44
5:H:66:ARG:HB2	5:H:178:GLU:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:114:GLN:HB3	5:J:115:PRO:HD3	2.00	0.44
7:Q:49:LEU:O	7:Q:53:MET:HG2	2.17	0.44
10:n:87:TRP:HB2	10:n:164:VAL:HG23	1.98	0.44
1:4:9:LYS:HE3	1:y:228:GLU:HG3	1.99	0.44
1:5:208:LEU:C	1:5:210:GLY:H	2.25	0.44
1:6:59:GLN:HE21	1:6:59:GLN:HB3	1.53	0.44
1:7:51:GLN:HB3	1:7:54:ALA:HB2	1.99	0.44
1:ZD:76:ALA:HB1	2:ZI:47:LYS:NZ	2.33	0.44
2:ZG:107:ASN:O	2:ZG:109:VAL:HG13	2.16	0.44
2:ZI:324:GLU:O	2:ZI:326:LEU:N	2.50	0.44
2:ZN:202:LYS:HB2	2:ZN:208:TRP:CZ3	2.52	0.44
2:ZN:271:THR:HG22	2:ZT:286:PRO:HB2	1.99	0.44
2:ZQ:288:ASP:O	2:ZQ:305:SER:N	2.50	0.44
2:ZT:29:THR:HG23	2:ZY:39:PHE:O	2.17	0.44
2:ZX:188:ASP:HA	2:ZX:257:ALA:HB2	1.99	0.44
2:ZY:74:ASP:OD2	2:ZY:361:LEU:HD11	2.18	0.44
2:ZZ:99:GLN:HE21	2:ZZ:111:MET:HE3	1.81	0.44
2:ZZ:109:VAL:HG12	2:ZZ:115:GLN:HA	1.98	0.44
2:Za:111:MET:HE2	2:Zf:56:GLY:HA3	1.99	0.44
2:Ze:10:LEU:HD11	2:Ze:382:TYR:CE1	2.53	0.44
1:s:38:ARG:HH22	10:n:206:LEU:HD22	1.81	0.44
1:s:253:MET:HG2	10:n:227:PHE:CB	2.46	0.44
1:u:97:ILE:HD12	1:u:116:ARG:HG2	1.98	0.44
1:x:6:TRP:CB	10:m:70:GLN:CB	2.87	0.44
1:y:154:ASP:OD1	1:y:154:ASP:O	2.35	0.44
3:B:52:ILE:HD13	3:B:52:ILE:HA	1.84	0.44
5:G:204:LEU:HD12	5:G:214:PRO:HB3	2.00	0.44
6:P:76:GLN:HE21	8:V:123:LYS:HB2	1.82	0.44
8:Y:30:ASN:ND2	10:o:57:VAL:HB	2.32	0.44
10:o:167:GLU:OE1	10:o:167:GLU:N	2.50	0.44
10:p:14:GLN:HG3	10:p:58:THR:HA	1.99	0.44
1:1:114:TYR:CD2	1:1:178:PHE:HZ	2.36	0.44
1:3:10:THR:OG1	1:3:71:GLY:HA3	2.17	0.44
1:4:1:MET:HE3	1:t:226:VAL:HG21	1.99	0.44
1:4:33:GLY:N	1:4:220:GLU:O	2.49	0.44
1:8:256:LYS:HD3	1:8:256:LYS:HA	1.77	0.44
2:ZG:147:LYS:HB2	2:ZG:147:LYS:HE2	1.66	0.44
2:ZK:126:PRO:HG2	2:ZK:310:GLN:HG3	2.00	0.44
2:ZN:202:LYS:HZ3	2:ZN:203:THR:C	2.25	0.44
2:ZO:139:ILE:HA	2:ZO:312:LEU:HD22	1.98	0.44
2:ZP:83:PHE:O	2:ZP:94:TYR:HA	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZP:195:ASP:OD2	2:ZP:216:SER:OG	2.25	0.44
2:ZR:182:GLY:O	2:ZR:197:ASN:HA	2.17	0.44
2:ZR:185:THR:OG1	2:Zc:133:ASN:ND2	2.50	0.44
2:ZS:27:SER:O	2:ZS:364:SER:OG	2.34	0.44
2:ZV:16:ASN:HB2	2:ZV:39:PHE:HZ	1.83	0.44
2:Zc:375:MET:SD	2:Zh:388:THR:HA	2.57	0.44
2:Zd:93:PHE:HB2	2:Zd:114:MET:HE1	1.98	0.44
2:Zd:114:MET:HE3	2:Zd:114:MET:HB3	1.83	0.44
2:Zg:71:ARG:NH1	2:Zg:74:ASP:OD1	2.51	0.44
3:B:20:LEU:HD11	3:B:73:LEU:HD13	2.00	0.44
5:I:147:LEU:HD21	5:I:165:VAL:HG11	2.00	0.44
5:I:194:LEU:HD11	5:J:220:PRO:CG	2.42	0.44
5:I:214:PRO:HG2	5:J:212:VAL:HG23	1.98	0.44
6:O:86:ILE:HD11	7:T:133:VAL:HA	1.99	0.44
7:R:51:LYS:O	7:R:55:ARG:HG2	2.18	0.44
8:Z:119:LEU:HD23	8:Z:119:LEU:HA	1.67	0.44
10:n:80:VAL:O	10:n:103:GLY:HA3	2.17	0.44
1:1:254:LEU:O	1:1:258:THR:HG23	2.18	0.44
1:3:167:PRO:HG3	1:ZE:196:GLN:HG2	2.00	0.44
1:6:1:MET:HE3	1:v:29:VAL:HG11	1.99	0.44
1:6:26:LEU:HD11	1:6:233:MET:HE2	1.98	0.44
1:6:184:LEU:HB3	1:6:192:TYR:HB3	1.99	0.44
1:9:36:ARG:HH21	1:9:80:LEU:HD22	1.82	0.44
1:ZA:31:THR:HG22	2:ZF:39:PHE:CB	2.47	0.44
1:ZB:233:MET:SD	2:ZG:388:THR:CA	3.01	0.44
1:ZC:46:TYR:HA	1:ZC:69:GLY:HA2	2.00	0.44
1:ZE:208:LEU:HB3	1:ZE:209:ASN:H	1.61	0.44
2:ZG:102:LEU:HD23	2:ZG:102:LEU:HA	1.84	0.44
2:ZR:184:VAL:HG13	2:ZR:196:MET:HB2	1.98	0.44
2:ZS:183:THR:HB	2:Zd:132:ALA:HA	2.00	0.44
2:ZZ:74:ASP:O	2:ZZ:359:GLY:N	2.50	0.44
2:Zf:103:ASP:OD2	2:Zf:104:GLU:N	2.48	0.44
1:v:127:GLN:HE22	1:v:139:ALA:CB	2.28	0.44
4:E:8:GLN:O	4:E:12:TRP:HD1	2.01	0.44
5:G:211:MET:HE1	5:H:210:MET:CE	2.48	0.44
6:K:67:ALA:HB2	8:V:2:ALA:HA	2.00	0.44
6:M:57:GLU:HG2	7:R:11:PHE:CD2	2.51	0.44
6:P:59:PHE:CZ	8:a:4:LEU:HD21	2.52	0.44
7:S:88:ARG:HH12	7:S:108:GLN:HG3	1.83	0.44
10:p:105:ILE:HG12	10:p:115:ILE:HD11	2.00	0.44
1:1:238:ARG:O	1:1:242:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:95:VAL:O	1:2:118:GLY:HA3	2.18	0.44
1:4:86:LEU:CD1	2:ZF:42:MET:HE1	2.42	0.44
1:4:251:ASP:OD1	1:y:238:ARG:NE	2.48	0.44
1:5:95:VAL:O	1:5:118:GLY:HA3	2.18	0.44
1:9:140:ILE:HD12	1:9:171:GLY:HA3	1.99	0.44
1:ZD:175:LEU:HD12	1:ZD:206:PRO:HB3	1.99	0.44
2:ZG:181:LYS:HE2	2:ZR:129:GLN:HG2	2.00	0.44
2:ZI:297:ASP:OD2	2:ZI:297:ASP:N	2.44	0.44
2:ZL:382:TYR:CD2	2:ZQ:395:ILE:HD13	2.53	0.44
2:ZP:22:ASN:HB2	2:ZU:5:GLN:HE21	1.82	0.44
2:ZP:71:ARG:NH1	2:ZP:74:ASP:OD1	2.51	0.44
2:ZP:346:GLY:HA3	2:ZP:353:PHE:CE2	2.53	0.44
2:ZQ:27:SER:OG	2:ZV:381:ASN:CG	2.60	0.44
2:ZR:316:VAL:HG21	2:ZR:345:LEU:HD23	1.98	0.44
2:ZS:181:LYS:CD	2:Zd:129:GLN:NE2	2.81	0.44
2:ZV:103:ASP:OD1	2:ZV:107:ASN:N	2.41	0.44
2:ZV:156:ILE:HG22	2:ZV:276:ILE:HG12	2.00	0.44
2:ZW:71:ARG:NH1	2:ZW:74:ASP:OD2	2.49	0.44
2:ZX:307:GLU:O	2:ZX:308:GLN:HG2	2.18	0.44
2:ZY:101:LYS:CD	2:Zd:324:GLU:OE2	2.59	0.44
2:ZZ:396:LEU:HD23	2:ZZ:396:LEU:HA	1.79	0.44
2:Zh:69:THR:OG1	2:Zh:74:ASP:OD1	2.30	0.44
1:s:242:ILE:CG2	10:n:26:LEU:CD1	2.92	0.44
1:w:258:THR:HG21	10:q:228:GLU:C	2.39	0.44
3:A:85:PRO:HB3	5:G:241:GLN:HG3	2.00	0.44
3:D:60:ILE:O	3:D:64:VAL:HG22	2.16	0.44
5:F:214:PRO:HG2	5:G:212:VAL:HG22	1.99	0.44
6:O:84:MET:SD	7:U:134:LEU:HD21	2.58	0.44
8:V:122:VAL:O	8:V:126:MET:HG2	2.18	0.44
10:n:18:GLN:HG2	10:n:223:ASN:HD21	1.82	0.44
1:1:35:LYS:HD2	1:1:81:HIS:HA	1.99	0.44
1:2:189:GLU:HA	1:7:42:GLU:HB2	1.98	0.44
1:3:256:LYS:HG2	1:y:241:GLU:HG2	1.99	0.44
1:5:1:MET:O	1:u:226:VAL:CG2	2.66	0.44
1:5:79:ARG:NH2	1:5:184:LEU:O	2.50	0.44
1:8:70:THR:HG22	1:8:71:GLY:N	2.31	0.44
1:ZA:77:THR:N	2:ZF:47:LYS:HD2	2.24	0.44
1:ZB:164:GLN:C	1:ZB:166:ALA:H	2.26	0.44
1:ZC:44:LEU:HD23	1:ZC:44:LEU:HA	1.82	0.44
1:ZC:95:VAL:O	1:ZC:118:GLY:HA3	2.17	0.44
1:ZC:184:LEU:HB3	1:ZC:192:TYR:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZD:3:SER:O	1:ZD:6:TRP:N	2.51	0.44
1:ZE:70:THR:HG22	1:ZE:71:GLY:N	2.33	0.44
2:ZH:41:ASP:OD2	2:ZH:41:ASP:N	2.48	0.44
2:ZI:87:ASP:OD1	2:ZI:87:ASP:N	2.37	0.44
2:ZM:30:TYR:HD1	2:ZM:363:ALA:HA	1.83	0.44
2:ZN:112:GLN:HE22	2:ZS:55:ALA:HB1	1.83	0.44
2:ZO:161:THR:HA	2:ZU:252:ASN:HD22	1.81	0.44
2:ZP:10:LEU:HD21	2:ZU:399:LEU:HD21	1.99	0.44
2:ZR:295:ASN:HB2	2:ZR:297:ASP:OD2	2.18	0.44
2:ZS:181:LYS:CE	2:Zd:129:GLN:NE2	2.81	0.44
2:ZV:264:LEU:HD12	2:ZV:264:LEU:HA	1.88	0.44
2:ZY:146:ALA:HB2	2:ZY:286:PRO:HD3	1.98	0.44
2:Zf:196:MET:HE1	2:Zf:259:PHE:CZ	2.52	0.44
2:Zf:210:VAL:HB	2:Zf:228:THR:HG22	2.00	0.44
1:t:63:PRO:CG	10:o:62:PRO:CA	2.77	0.44
1:x:187:ILE:HD11	1:x:193:ILE:HG13	1.99	0.44
1:y:95:VAL:O	1:y:118:GLY:HA3	2.18	0.44
4:E:88:MET:HA	4:E:247:ILE:HG21	1.99	0.44
7:R:51:LYS:HE2	7:R:55:ARG:NH2	2.09	0.44
7:U:92:GLN:HG2	10:q:53:THR:OG1	2.18	0.44
8:X:110:ARG:HB3	10:o:241:GLU:HG2	2.00	0.44
8:a:36:GLY:O	8:a:37:PRO:C	2.60	0.44
10:o:227:PHE:O	10:o:231:MET:HG2	2.17	0.44
1:2:255:GLN:HE21	1:2:259:GLN:NE2	2.16	0.44
1:3:218:TYR:OH	1:ZE:73:ARG:HD2	2.17	0.44
1:9:35:LYS:NZ	1:9:220:GLU:OE2	2.48	0.44
1:ZA:88:GLN:HG2	1:ZA:90:ASN:OD1	2.18	0.44
1:ZE:19:MET:HE2	1:ZE:236:VAL:HG12	2.00	0.44
1:ZE:121:GLN:NE2	1:ZE:131:ALA:HA	2.33	0.44
2:ZI:154:MET:HE2	2:ZI:276:ILE:HD13	1.99	0.44
2:ZI:324:GLU:C	2:ZI:326:LEU:H	2.25	0.44
2:ZL:373:VAL:O	2:ZL:374:ASN:C	2.60	0.44
2:ZQ:125:PRO:HA	2:ZQ:126:PRO:HD3	1.92	0.44
2:ZU:112:GLN:NE2	2:ZZ:40:ALA:HB2	2.33	0.44
2:ZX:382:TYR:CZ	2:Zc:395:ILE:HG23	2.53	0.44
2:ZY:270:ASN:H	2:Ze:286:PRO:HG2	1.82	0.44
2:ZZ:269:GLN:CG	2:Zf:286:PRO:CG	2.91	0.44
2:Zb:80:ASN:OD1	2:Zb:80:ASN:C	2.61	0.44
2:Ze:117:THR:HA	2:Ze:136:PRO:HA	2.00	0.44
2:Ze:396:LEU:HD12	2:Ze:396:LEU:HA	1.81	0.44
1:t:6:TRP:HE1	8:X:77:VAL:HB	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:257:LEU:HD11	8:Y:99:VAL:HA	2.00	0.44
1:x:70:THR:HG21	10:m:71:LEU:HD12	2.00	0.44
3:A:15:LYS:HE2	3:A:15:LYS:HB3	1.88	0.44
7:Q:92:GLN:OE1	10:m:53:THR:OG1	2.30	0.44
7:U:109:PHE:CZ	8:Z:118:VAL:HG13	2.53	0.44
1:0:1:MET:HG3	10:p:213:PRO:CG	2.12	0.44
1:4:47:GLN:N	1:4:68:ILE:O	2.50	0.44
1:5:24:ASN:HA	1:ZA:7:ILE:HG21	1.99	0.44
1:6:7:ILE:HG23	1:6:71:GLY:HA2	1.99	0.44
1:ZA:230:LEU:CD1	2:ZL:399:LEU:HB3	2.48	0.44
2:ZF:380:ARG:HH21	2:ZL:397:ASN:HB2	1.83	0.44
2:ZJ:93:PHE:HB3	2:ZJ:333:VAL:HG13	1.99	0.44
2:ZK:27:SER:HA	2:ZK:366:VAL:CG2	2.48	0.44
2:ZM:228:THR:HB	2:ZM:244:VAL:HG11	2.00	0.44
2:ZM:246:ILE:HD13	2:ZM:246:ILE:HA	1.88	0.44
2:ZR:179:ASN:N	2:ZR:200:PHE:O	2.45	0.44
2:ZS:379:GLN:CD	2:ZX:391:THR:HG23	2.42	0.44
2:ZU:369:SER:HB3	2:Za:382:TYR:OH	2.17	0.44
2:ZV:14:ALA:HB2	2:ZV:382:TYR:HE2	1.83	0.44
2:ZV:42:MET:SD	2:ZV:53:LYS:HB3	2.58	0.44
2:ZW:70:GLY:O	2:ZW:71:ARG:C	2.61	0.44
2:ZX:285:LYS:HB3	2:ZX:285:LYS:HE2	1.76	0.44
2:Zg:73:LEU:HB3	2:Zg:100:PHE:HB2	2.00	0.44
1:y:1:MET:HE3	10:n:29:ALA:HB1	1.99	0.44
1:y:102:PHE:HB3	1:y:114:TYR:HB3	2.00	0.44
1:y:123:ASP:OD2	1:y:127:GLN:NE2	2.51	0.44
3:C:27:VAL:HG22	3:C:57:ALA:HB1	1.99	0.44
3:D:7:MET:HG3	4:E:234:PRO:HA	2.00	0.44
5:H:135:ARG:O	5:H:136:ALA:C	2.59	0.44
5:H:171:LEU:HD23	5:I:95:PHE:CZ	2.53	0.44
5:I:40:LEU:HD13	7:T:4:ARG:HG2	1.98	0.44
7:T:117:GLN:HE22	8:Y:125:MET:HG2	1.83	0.44
8:Y:56:GLY:O	8:Y:57:GLN:HG2	2.18	0.44
10:m:171:VAL:HG13	10:m:179:PHE:HB3	1.98	0.44
10:p:26:LEU:HD21	10:p:216:ALA:CB	2.48	0.44
1:0:16:GLN:NE2	1:5:2:ILE:HD11	2.33	0.43
1:0:95:VAL:O	1:0:118:GLY:HA3	2.18	0.43
1:3:123:ASP:OD1	1:3:127:GLN:N	2.49	0.43
1:8:45:LEU:HD12	1:x:83:GLN:NE2	2.33	0.43
2:ZG:288:ASP:N	2:ZG:288:ASP:OD1	2.51	0.43
2:ZJ:139:ILE:HG12	2:ZJ:312:LEU:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZM:307:GLU:OE1	2:ZM:307:GLU:O	2.35	0.43
2:ZP:22:ASN:N	2:ZU:5:GLN:HE21	2.15	0.43
2:ZQ:75:VAL:O	2:ZQ:98:GLY:HA3	2.18	0.43
2:ZR:86:VAL:HG13	2:ZR:117:THR:HG21	2.00	0.43
2:ZR:211:TYR:CE1	2:ZR:226:ALA:HA	2.53	0.43
2:ZS:170:PHE:CE2	2:ZS:223:PRO:HG2	2.52	0.43
2:ZW:2:SER:O	2:ZW:2:SER:OG	2.36	0.43
2:ZY:137:ILE:HG21	2:ZY:300:VAL:HG21	2.00	0.43
2:ZZ:233:ASN:HD21	2:ZZ:237:ILE:HB	1.83	0.43
2:Ze:100:PHE:CE2	2:Ze:116:LEU:HD13	2.53	0.43
1:u:9:LYS:CE	10:o:215:GLU:HG2	2.39	0.43
1:v:4:SER:HB3	10:q:20:ALA:CA	2.48	0.43
3:A:3:PRO:HG3	5:H:228:LEU:HD12	1.99	0.43
3:A:84:LEU:HB3	3:A:85:PRO:HD2	1.98	0.43
4:E:12:TRP:CZ3	6:P:34:PHE:HB2	2.53	0.43
6:O:61:LEU:HD13	7:T:50:LYS:HE3	2.00	0.43
8:Y:67:VAL:HG23	10:o:51:LEU:HD23	1.99	0.43
10:p:19:GLN:HE22	10:p:220:MET:HG2	1.83	0.43
1:0:6:TRP:HD1	10:p:70:GLN:HB2	1.83	0.43
1:0:83:GLN:CG	1:ZB:45:LEU:HD13	2.46	0.43
1:2:251:ASP:OD1	1:w:238:ARG:NH2	2.51	0.43
1:4:50:ARG:HH12	1:z:75:VAL:HG13	1.83	0.43
1:5:55:GLN:HA	1:5:55:GLN:HE21	1.83	0.43
1:6:55:GLN:C	10:q:138:ALA:HB2	2.38	0.43
1:7:225:ASN:O	1:7:229:GLU:HG2	2.18	0.43
1:8:185:GLU:HG3	1:ZD:67:GLN:HE22	1.83	0.43
1:9:257:LEU:O	1:9:258:THR:C	2.61	0.43
1:ZB:215:TYR:HB3	1:ZB:218:TYR:CD2	2.53	0.43
1:ZD:42:GLU:HG2	1:ZD:75:VAL:HG23	2.00	0.43
1:ZD:189:GLU:OE1	2:ZI:53:LYS:NZ	2.47	0.43
1:ZE:89:THR:HG23	1:ZE:91:ASN:HB2	1.99	0.43
2:ZJ:78:SER:O	2:ZJ:354:GLY:HA3	2.18	0.43
2:ZJ:178:TYR:HA	2:ZJ:201:VAL:HG22	2.00	0.43
2:ZJ:380:ARG:HD3	2:ZJ:380:ARG:HA	1.71	0.43
2:ZK:112:GLN:HG2	2:ZK:331:ASP:HB3	1.99	0.43
2:ZL:28:ALA:O	2:ZQ:39:PHE:CD2	2.71	0.43
2:ZP:77:ILE:HD13	2:ZP:356:LEU:HG	2.00	0.43
2:ZS:202:LYS:HG3	2:ZS:208:TRP:CE2	2.53	0.43
2:ZT:14:ALA:HB2	2:ZT:382:TYR:HE2	1.82	0.43
2:ZU:367:ASP:O	2:ZU:371:GLU:HG2	2.18	0.43
2:ZX:210:VAL:O	2:ZX:227:SER:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZX:380:ARG:HH21	2:Zd:393:ASP:CG	2.26	0.43
2:ZY:212:THR:HG21	2:ZY:246:ILE:HD12	1.99	0.43
2:Zg:269:GLN:HG2	2:Zg:270:ASN:H	1.84	0.43
1:r:137:GLN:HA	1:r:139:ALA:N	2.33	0.43
1:t:97:ILE:HB	1:t:116:ARG:HH21	1.82	0.43
1:v:188:GLY:O	1:v:190:ASN:N	2.45	0.43
1:w:47:GLN:NE2	8:a:74:GLU:O	2.51	0.43
1:w:73:ARG:HD3	8:a:78:TYR:CG	2.53	0.43
1:y:17:THR:O	1:y:19:MET:N	2.51	0.43
3:C:29:LEU:CB	3:D:52:ILE:HG21	2.44	0.43
3:C:52:ILE:O	3:C:55:ILE:HG22	2.18	0.43
7:T:19:ARG:NH2	7:T:115:LYS:HD3	2.33	0.43
8:W:99:VAL:HG12	10:n:9:MET:HG2	1.99	0.43
8:Z:97:ASP:O	8:Z:101:GLU:HG2	2.18	0.43
10:n:73:TYR:HD1	10:n:205:VAL:HG12	1.83	0.43
10:q:51:LEU:HG	10:q:51:LEU:H	1.20	0.43
1:5:226:VAL:HG11	1:ZA:242:ILE:CD1	2.20	0.43
2:ZH:205:ASP:CG	2:ZN:252:ASN:HA	2.37	0.43
2:ZK:138:THR:HG22	2:ZK:140:PRO:HD3	2.00	0.43
2:ZK:317:LEU:HD11	2:ZK:356:LEU:HD11	2.00	0.43
2:ZK:349:GLY:O	2:ZQ:89:ASN:ND2	2.51	0.43
2:ZM:6:ALA:HB1	2:ZM:389:ILE:HG13	2.00	0.43
2:ZO:95:SER:HB2	2:ZO:333:VAL:HG22	2.00	0.43
2:ZT:186:VAL:C	2:ZT:187:TYR:HD1	2.26	0.43
2:ZU:235:ASN:OD1	2:Za:189:SER:HB2	2.17	0.43
2:ZU:383:GLN:HG2	2:ZZ:398:THR:HG21	2.00	0.43
2:ZV:267:MET:HE1	2:Zb:145:ALA:CB	2.48	0.43
2:Zf:114:MET:HE3	2:Zf:333:VAL:HG21	2.01	0.43
1:t:140:ILE:CG2	1:t:171:GLY:HA3	2.46	0.43
1:u:16:GLN:HE22	1:z:2:ILE:CD1	2.31	0.43
1:u:46:TYR:HB3	1:u:67:GLN:HG2	1.99	0.43
4:E:205:ASN:ND2	5:F:211:MET:HB2	2.33	0.43
5:F:100:ILE:HG23	5:F:101:MET:CE	2.47	0.43
5:I:212:VAL:HG21	5:I:217:ILE:HD11	2.00	0.43
6:P:99:VAL:O	6:P:102:MET:HB2	2.18	0.43
7:S:35:THR:HG22	8:X:49:PHE:CB	2.23	0.43
8:W:4:LEU:HD23	8:W:7:PHE:HD1	1.82	0.43
8:Z:103:VAL:HG21	10:q:9:MET:CG	2.48	0.43
10:m:15:THR:OG1	10:m:226:ARG:NH1	2.51	0.43
10:p:82:LEU:HD12	10:p:82:LEU:N	2.33	0.43
10:p:165:LYS:O	10:p:189:ARG:NH2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3:SER:O	10:q:70:GLN:HG3	2.18	0.43
1:1:188:GLY:O	1:1:190:ASN:N	2.47	0.43
1:1:218:TYR:HE1	1:ZC:73:ARG:CD	2.32	0.43
1:2:42:GLU:HG3	1:2:43:ASP:O	2.18	0.43
1:3:35:LYS:NZ	1:3:220:GLU:OE2	2.48	0.43
1:4:162:GLN:H	1:4:162:GLN:CD	2.23	0.43
1:5:49:ILE:HG21	1:5:66:LEU:HD23	2.00	0.43
1:ZA:50:ARG:O	1:ZA:65:GLY:HA3	2.18	0.43
1:ZE:24:ASN:ND2	2:ZJ:49:GLY:HA3	2.33	0.43
1:ZE:70:THR:HG22	1:ZE:71:GLY:H	1.82	0.43
2:ZF:386:ALA:HB1	2:ZK:402:LEU:HD21	1.99	0.43
2:ZJ:370:LYS:HB2	2:ZJ:370:LYS:HE3	1.86	0.43
2:ZM:14:ALA:HB2	2:ZM:382:TYR:HE2	1.82	0.43
2:ZN:9:GLY:C	2:ZN:385:ASN:HD22	2.25	0.43
2:ZP:25:ALA:HB1	2:ZU:52:VAL:HG12	2.01	0.43
2:ZQ:112:GLN:HE21	2:ZQ:331:ASP:HB3	1.82	0.43
2:ZS:103:ASP:OD2	2:ZS:103:ASP:C	2.62	0.43
2:ZU:297:ASP:OD2	2:ZU:297:ASP:N	2.41	0.43
2:ZX:17:LEU:HD13	2:Zc:395:ILE:CD1	2.46	0.43
2:ZX:388:THR:O	2:ZX:392:GLN:HG2	2.18	0.43
2:ZZ:56:GLY:C	2:ZZ:57:ILE:HD12	2.44	0.43
2:ZZ:144:MET:HE2	2:ZZ:144:MET:HB3	1.83	0.43
2:Za:17:LEU:HD21	2:Zf:391:THR:HG21	2.00	0.43
2:Zd:10:LEU:HD23	2:Zd:10:LEU:HA	1.80	0.43
1:r:242:ILE:HG12	1:x:258:THR:HG22	2.01	0.43
1:x:48:THR:H	10:m:84:GLN:CD	2.27	0.43
3:D:45:ASN:OD1	3:D:45:ASN:N	2.50	0.43
4:E:104:LEU:HD12	4:E:104:LEU:HA	1.78	0.43
5:H:59:LEU:O	5:H:65:THR:OG1	2.30	0.43
5:H:82:SER:HB2	6:L:103:GLN:O	2.18	0.43
8:V:103:VAL:CG2	10:m:9:MET:HG3	2.47	0.43
8:W:82:ASN:HD22	8:W:91:VAL:HG21	1.83	0.43
10:n:243:ARG:O	10:n:244:ALA:C	2.61	0.43
10:p:34:PHE:HB3	10:p:209:SER:HB2	2.00	0.43
1:1:136:VAL:O	1:1:137:GLN:C	2.61	0.43
1:2:36:ARG:HE	1:2:80:LEU:HD22	1.82	0.43
1:5:249:THR:O	1:5:253:MET:HG3	2.19	0.43
1:9:57:SER:CA	1:t:154:ASP:HB2	2.41	0.43
1:ZC:240:TYR:CE2	2:ZH:395:ILE:HG21	2.48	0.43
2:ZM:129:GLN:NE2	2:ZM:132:ALA:HB2	2.32	0.43
2:ZM:233:ASN:OD1	2:ZM:237:ILE:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZO:125:PRO:HA	2:ZO:126:PRO:HD3	1.94	0.43
2:ZQ:352:ASN:OD1	2:ZQ:352:ASN:O	2.37	0.43
2:ZS:6:ALA:C	2:ZS:8:SER:N	2.76	0.43
2:ZT:34:SER:HB3	2:ZT:366:VAL:HG22	2.01	0.43
2:ZV:346:GLY:HA3	2:ZV:353:PHE:CE2	2.54	0.43
2:ZW:390:LYS:O	2:ZW:394:GLN:HG3	2.18	0.43
2:ZX:18:ASP:OD1	2:Zc:2:SER:N	2.52	0.43
2:ZZ:307:GLU:O	2:ZZ:307:GLU:HG2	2.17	0.43
2:Zg:322:ASN:HB3	2:Zg:340:SER:HA	2.01	0.43
1:t:6:TRP:CE2	8:X:77:VAL:HB	2.54	0.43
1:w:95:VAL:O	1:w:118:GLY:HA3	2.18	0.43
1:x:3:SER:C	10:m:70:GLN:HG3	2.36	0.43
1:x:98:LYS:O	1:x:98:LYS:HG2	2.19	0.43
1:y:195:THR:HG22	1:y:197:SER:H	1.83	0.43
1:z:140:ILE:HG23	1:z:170:VAL:HG12	1.99	0.43
5:F:59:LEU:HD12	5:G:88:VAL:HG23	2.00	0.43
5:G:82:SER:HA	6:K:103:GLN:NE2	2.33	0.43
5:H:42:VAL:HG13	6:N:42:LEU:HD22	2.01	0.43
5:I:146:ASP:OD1	5:J:233:GLN:NE2	2.51	0.43
8:V:68:ILE:HD11	9:c:312:VAL:HG21	2.00	0.43
8:a:125:MET:HE3	9:b:316:LEU:HD11	1.99	0.43
10:n:34:PHE:O	10:n:210:ASN:ND2	2.51	0.43
10:n:72:ASP:OD1	10:n:74:THR:HG23	2.18	0.43
10:o:51:LEU:O	10:o:53:THR:HG23	2.19	0.43
1:3:240:TYR:CG	1:8:253:MET:HE3	2.53	0.43
1:4:140:ILE:HD13	1:4:157:VAL:HG21	2.00	0.43
1:4:194:GLU:OE1	1:t:165:ALA:HB1	2.19	0.43
1:7:19:MET:HB2	1:7:236:VAL:HG11	2.00	0.43
1:8:249:THR:O	1:8:253:MET:HG3	2.18	0.43
1:9:92:SER:O	1:9:216:GLN:NE2	2.45	0.43
1:ZC:85:ASN:HD22	2:ZN:4:SER:CB	2.31	0.43
2:ZL:322:ASN:OD1	2:ZL:325:GLY:N	2.50	0.43
2:ZP:188:ASP:OD2	2:ZP:192:ASN:N	2.51	0.43
2:ZQ:128:ILE:HD13	2:ZQ:314:GLN:HB2	2.01	0.43
2:ZR:271:THR:HG22	2:ZX:286:PRO:CB	2.48	0.43
2:ZT:185:THR:HG22	2:ZT:187:TYR:HE1	1.84	0.43
2:ZT:375:MET:HE1	2:ZY:388:THR:HG23	1.99	0.43
2:ZX:37:ALA:HA	2:ZX:57:ILE:HD13	2.00	0.43
2:ZY:53:LYS:HE3	2:ZY:53:LYS:HB2	1.86	0.43
2:Zf:396:LEU:HD23	2:Zf:396:LEU:HA	1.83	0.43
1:r:35:LYS:HA	1:r:35:LYS:HD3	1.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:127:GLN:N	1:t:141:THR:HG23	2.33	0.43
1:t:188:GLY:O	1:t:190:ASN:N	2.51	0.43
1:u:187:ILE:HG23	1:u:193:ILE:HG12	2.00	0.43
1:w:9:LYS:O	1:w:10:THR:C	2.61	0.43
5:J:66:ARG:NH2	5:J:181:THR:HG21	2.33	0.43
8:Y:54:ALA:CB	8:Y:55:PRO:CD	2.97	0.43
10:n:29:ALA:O	10:n:209:SER:OG	2.36	0.43
10:n:146:LEU:HB2	10:n:155:VAL:HG22	2.01	0.43
10:p:169:ASN:OD1	10:p:169:ASN:N	2.51	0.43
1:0:85:ASN:O	1:0:221:THR:OG1	2.34	0.43
1:0:260:LEU:C	1:u:245:LYS:HE2	2.44	0.43
1:7:142:ILE:HD13	1:7:170:VAL:HG21	2.00	0.43
1:ZA:140:ILE:HD12	1:ZA:171:GLY:HA3	2.00	0.43
1:ZA:208:LEU:C	1:ZA:210:GLY:H	2.26	0.43
2:ZI:80:ASN:OD1	2:ZI:81:GLY:N	2.52	0.43
2:ZK:374:ASN:O	2:ZK:376:ILE:N	2.51	0.43
2:ZL:84:ARG:HG3	2:ZL:84:ARG:HH11	1.83	0.43
2:ZU:180:LYS:HB3	2:ZU:200:PHE:HD1	1.83	0.43
2:Zc:381:ASN:O	2:Zc:385:ASN:ND2	2.51	0.43
2:Zf:78:SER:OG	2:Zf:355:LYS:O	2.29	0.43
2:Zf:380:ARG:HA	2:Zf:380:ARG:HD3	1.78	0.43
1:s:260:LEU:CD2	8:W:106:MET:SD	3.03	0.43
1:x:2:ILE:CG1	1:x:254:LEU:HD11	2.48	0.43
1:y:87:SER:OG	1:y:219:VAL:HG23	2.19	0.43
3:A:20:LEU:HD11	3:A:73:LEU:CD2	2.49	0.43
4:E:54:ILE:HD11	5:J:153:LEU:HB3	2.01	0.43
5:J:204:LEU:HD11	5:J:217:ILE:HD12	1.99	0.43
7:S:32:ASN:ND2	8:X:51:VAL:HG12	2.34	0.43
8:W:7:PHE:CD2	8:W:119:LEU:HD11	2.54	0.43
10:p:65:ASP:OD2	10:p:212:LYS:NZ	2.52	0.43
1:0:143:PRO:HG2	1:0:159:VAL:HG11	1.99	0.43
1:3:107:LEU:HD21	1:3:191:LEU:HD13	2.00	0.43
1:5:189:GLU:HG2	1:ZA:42:GLU:OE1	2.18	0.43
1:6:42:GLU:HB3	1:6:75:VAL:HG22	2.01	0.43
2:ZI:382:TYR:CE1	2:ZN:395:ILE:CG2	2.91	0.43
2:ZJ:248:THR:HG23	2:ZJ:257:ALA:O	2.19	0.43
2:ZK:102:LEU:HD21	2:ZK:106:ARG:HA	2.00	0.43
2:ZK:236:GLY:CA	2:ZQ:190:GLN:HE22	2.32	0.43
2:ZN:380:ARG:HG3	2:ZT:396:LEU:HD12	2.01	0.43
2:ZQ:265:ASN:C	2:ZQ:267:MET:HE2	2.42	0.43
2:ZS:180:LYS:NZ	2:ZS:274:ASN:O	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZT:2:SER:C	2:ZT:4:SER:H	2.27	0.43
2:ZT:382:TYR:OH	2:ZY:399:LEU:HD11	2.18	0.43
2:ZY:5:GLN:HG2	2:ZY:50:LEU:O	2.19	0.43
2:ZZ:2:SER:OG	2:ZZ:3:PHE:N	2.48	0.43
2:Za:112:GLN:N	2:Za:112:GLN:OE1	2.51	0.43
2:Za:149:THR:HG23	2:Za:259:PHE:HB3	2.01	0.43
2:Zb:194:HIS:CE1	2:Zb:251:ILE:HD12	2.53	0.43
2:Zc:10:LEU:HD12	2:Zc:10:LEU:HA	1.71	0.43
2:Zg:42:MET:SD	2:Zg:53:LYS:HB3	2.58	0.43
2:Zg:380:ARG:HD3	2:Zg:380:ARG:HA	1.45	0.43
1:r:46:TYR:CZ	10:m:173:ARG:CD	3.02	0.43
1:s:95:VAL:O	1:s:118:GLY:HA3	2.18	0.43
1:s:225:ASN:OD1	1:s:226:VAL:N	2.52	0.43
1:v:253:MET:HE1	10:q:16:LEU:HA	1.99	0.43
1:z:254:LEU:O	1:z:258:THR:HG23	2.19	0.43
5:G:114:GLN:HB3	5:G:115:PRO:HD3	2.01	0.43
5:G:116:PHE:HE2	7:R:4:ARG:NH1	2.12	0.43
5:G:204:LEU:HD11	5:G:217:ILE:HD12	2.01	0.43
5:I:60:MET:HE3	5:I:60:MET:HB3	1.87	0.43
6:K:74:ASP:N	6:K:74:ASP:OD2	2.52	0.43
6:N:77:LYS:NZ	7:T:13:GLN:OE1	2.36	0.43
6:O:75:MET:SD	7:T:122:VAL:HG22	2.59	0.43
8:X:7:PHE:HA	8:X:119:LEU:HD21	2.00	0.43
10:p:86:GLY:HA2	10:p:199:ILE:HD12	2.01	0.43
1:2:209:ASN:CG	1:x:145:ASN:HD22	2.26	0.43
1:3:173:LEU:HD23	1:3:214:LEU:HD13	1.99	0.43
1:5:28:ASN:OD1	1:ZA:72:VAL:CG2	2.67	0.43
1:8:42:GLU:N	1:8:73:ARG:O	2.52	0.43
1:ZA:227:ALA:HB1	2:ZL:399:LEU:CD2	2.49	0.43
1:ZE:255:GLN:O	1:ZE:259:GLN:HG2	2.19	0.43
2:ZF:355:LYS:H	2:ZF:355:LYS:HG2	1.66	0.43
2:ZG:154:MET:HE2	2:ZG:154:MET:HB3	1.73	0.43
2:ZJ:121:ALA:HB1	2:ZJ:126:PRO:HB2	2.00	0.43
2:ZM:71:ARG:NH1	2:ZM:74:ASP:OD1	2.52	0.43
2:ZN:397:ASN:O	2:ZN:398:THR:C	2.60	0.43
2:ZR:387:GLN:O	2:ZR:391:THR:HG23	2.19	0.43
2:ZS:41:ASP:OD2	2:ZS:41:ASP:N	2.45	0.43
2:ZT:10:LEU:HD21	2:ZY:399:LEU:HD11	2.01	0.43
2:ZT:33:LYS:NZ	2:ZT:362:GLU:OE1	2.36	0.43
2:ZV:144:MET:HB3	2:ZV:304:TYR:CE2	2.54	0.43
2:ZV:188:ASP:OD2	2:ZV:194:HIS:NE2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZY:298:GLY:HA3	2:ZY:315:ILE:HG22	2.01	0.43
2:ZZ:373:VAL:HG13	2:Zf:389:ILE:HD13	2.00	0.43
2:Zc:60:ASP:O	2:Zc:365:ASN:ND2	2.52	0.43
2:Zf:71:ARG:HB2	2:Zf:74:ASP:OD2	2.19	0.43
2:Zg:117:THR:HA	2:Zg:136:PRO:HA	2.01	0.43
1:r:107:LEU:HD11	1:r:191:LEU:HD13	2.01	0.43
1:s:31:THR:HG23	1:x:42:GLU:HA	2.01	0.43
1:t:44:LEU:CD2	8:X:78:TYR:CG	3.02	0.43
1:v:251:ASP:CG	10:p:221:ILE:HG21	2.43	0.43
1:z:138:PRO:HG2	1:z:172:GLN:O	2.18	0.43
5:F:37:SER:HA	5:F:123:MET:HG3	2.01	0.43
5:G:190:PHE:CD1	5:H:220:PRO:HG3	2.54	0.43
5:J:68:ILE:O	5:J:70:VAL:N	2.52	0.43
6:N:59:PHE:CD2	7:S:118:MET:HE1	2.54	0.43
7:Q:85:LEU:HD23	7:Q:85:LEU:HA	1.81	0.43
10:n:181:LEU:HD11	10:n:193:LEU:HD21	2.01	0.43
10:o:51:LEU:O	10:o:53:THR:N	2.52	0.43
1:1:7:ILE:HG12	1:1:70:THR:O	2.18	0.43
1:4:253:MET:HE2	1:z:240:TYR:CG	2.54	0.43
1:5:245:LYS:HE2	1:5:245:LYS:HB2	1.52	0.43
1:ZA:235:GLN:NE2	2:ZG:3:PHE:CB	2.80	0.43
1:ZC:86:LEU:HD11	1:ZC:98:LYS:HD3	2.01	0.43
1:ZD:167:PRO:HG3	2:ZO:338:GLN:CD	2.44	0.43
2:ZJ:380:ARG:CZ	2:ZP:393:ASP:OD1	2.67	0.43
2:ZN:269:GLN:HE22	2:ZT:146:ALA:H	1.66	0.43
2:ZN:390:LYS:O	2:ZN:394:GLN:HG3	2.19	0.43
2:ZO:212:THR:O	2:ZO:223:PRO:HG3	2.19	0.43
2:ZR:26:ASN:CG	2:ZW:52:VAL:HG22	2.44	0.43
2:ZR:157:ASN:HD21	2:ZX:143:LEU:HD13	1.82	0.43
2:ZV:44:ALA:HB3	2:ZV:50:LEU:HD22	2.01	0.43
2:ZW:380:ARG:NH2	2:Zc:393:ASP:OD2	2.52	0.43
2:Zb:373:VAL:HG11	2:Zh:7:VAL:HG22	2.00	0.43
2:Zd:83:PHE:HB2	2:Zd:95:SER:O	2.19	0.43
2:Ze:397:ASN:O	2:Ze:400:VAL:N	2.52	0.43
2:Zg:96:ARG:H	2:Zg:334:TRP:HZ3	1.67	0.43
1:s:2:ILE:HD13	1:s:250:THR:HG23	2.01	0.43
1:x:6:TRP:O	1:x:10:THR:HG23	2.18	0.43
1:x:257:LEU:O	10:m:217:MET:HE3	2.06	0.43
4:E:186:LEU:HD11	4:E:236:ILE:HG22	2.01	0.43
5:F:171:LEU:HB3	5:F:172:PRO:HD3	2.01	0.43
5:G:161:GLY:O	5:G:162:PRO:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:194:LEU:HD23	5:G:194:LEU:HA	1.83	0.43
6:L:75:MET:HE3	6:L:75:MET:HB3	1.83	0.43
6:O:48:ARG:HH22	7:U:6:ASP:CG	2.24	0.43
8:X:127:LEU:HD23	8:X:127:LEU:HA	1.89	0.43
10:m:245:ASN:OD1	10:m:246:GLN:N	2.51	0.43
10:n:80:VAL:HB	10:n:201:ILE:HD11	2.01	0.43
10:o:115:ILE:HG13	10:o:120:VAL:HG22	2.01	0.43
1:0:45:LEU:HD13	10:p:83:GLN:HA	2.00	0.42
1:1:73:ARG:NE	10:q:202:MET:SD	2.92	0.42
1:1:238:ARG:HH21	1:7:251:ASP:CG	2.27	0.42
1:2:58:GLU:N	10:m:140:ASP:OD2	2.52	0.42
1:4:34:PHE:HB3	1:4:222:SER:HB3	2.01	0.42
1:5:83:GLN:NE2	1:5:97:ILE:O	2.46	0.42
1:6:45:LEU:CD1	1:v:83:GLN:NE2	2.81	0.42
1:6:175:LEU:HG	1:6:206:PRO:HG3	2.00	0.42
1:ZA:103:PHE:HE1	1:ZA:214:LEU:HD21	1.83	0.42
1:ZE:137:GLN:HA	1:ZE:139:ALA:N	2.32	0.42
2:ZP:175:ALA:HA	2:ZP:178:TYR:CZ	2.54	0.42
2:ZR:246:ILE:HD13	2:ZR:246:ILE:HA	1.88	0.42
2:ZS:288:ASP:O	2:ZS:305:SER:N	2.52	0.42
2:ZT:106:ARG:HD3	2:ZY:321:ALA:HB1	2.01	0.42
2:ZT:146:ALA:HB2	2:ZT:286:PRO:HD3	1.99	0.42
2:ZU:159:ASN:HA	2:ZU:269:GLN:O	2.19	0.42
2:ZU:269:GLN:CG	2:Za:286:PRO:HG2	2.49	0.42
2:ZW:159:ASN:ND2	2:ZW:162:ASP:OD1	2.45	0.42
2:Zb:111:MET:N	2:Zb:111:MET:SD	2.92	0.42
2:Zc:375:MET:HE1	2:Zh:388:THR:OG1	2.19	0.42
2:Zd:144:MET:HE3	2:Zd:145:ALA:H	1.84	0.42
2:Zf:99:GLN:HE21	2:Zf:361:LEU:HD11	1.84	0.42
2:Zf:107:ASN:ND2	2:Zf:138:THR:HG22	2.34	0.42
2:Zh:392:GLN:HA	2:Zh:395:ILE:CG2	2.49	0.42
1:s:6:TRP:CH2	8:W:77:VAL:HG11	2.54	0.42
1:t:151:ILE:HG12	1:t:157:VAL:HG22	2.01	0.42
1:v:12:LEU:CD1	10:p:214:VAL:CG1	2.95	0.42
1:x:70:THR:HG21	10:m:71:LEU:CG	2.48	0.42
3:D:52:ILE:HD13	3:D:52:ILE:HA	1.83	0.42
4:E:49:MET:HE2	4:E:49:MET:HB2	1.87	0.42
4:E:224:VAL:O	4:E:228:LEU:HB2	2.18	0.42
5:I:138:MET:O	5:I:142:THR:OG1	2.28	0.42
5:J:195:ILE:O	5:J:199:VAL:HG13	2.18	0.42
7:R:29:ASN:ND2	7:R:40:ALA:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:91:ASP:O	10:o:50:SER:CB	2.67	0.42
9:j:324:ASN:HB3	10:p:48:GLY:HA2	2.00	0.42
10:p:189:ARG:HD2	10:p:193:LEU:HD23	2.00	0.42
10:q:52:ALA:O	10:q:54:ARG:N	2.51	0.42
10:q:165:LYS:HB2	10:q:165:LYS:HE3	1.82	0.42
1:1:44:LEU:HD23	10:q:202:MET:SD	2.59	0.42
1:1:100:GLN:NE2	1:1:210:GLY:O	2.51	0.42
1:3:36:ARG:HE	1:3:80:LEU:HD22	1.84	0.42
1:4:126:GLY:HA3	1:9:179:MET:HE3	2.01	0.42
1:6:70:THR:HG22	1:v:85:ASN:OD1	2.19	0.42
1:8:179:MET:HE2	1:8:179:MET:HA	2.02	0.42
1:9:245:LYS:HB2	1:9:245:LYS:HE2	1.78	0.42
1:ZA:59:GLN:HG2	1:ZA:60:THR:HG23	2.01	0.42
1:ZE:19:MET:HE2	1:ZE:19:MET:HB2	1.92	0.42
2:ZJ:199:TYR:O	2:ZJ:210:VAL:HA	2.19	0.42
2:ZL:3:PHE:HE1	2:ZL:396:LEU:HD12	1.84	0.42
2:ZL:93:PHE:HE1	2:ZL:329:GLN:HG3	1.83	0.42
2:ZP:352:ASN:O	2:ZP:352:ASN:OD1	2.37	0.42
2:ZR:375:MET:HE1	2:ZW:388:THR:CB	2.48	0.42
2:ZS:65:THR:HG22	2:Zd:50:LEU:HD12	2.00	0.42
2:ZS:319:ASN:OD1	2:ZS:319:ASN:C	2.62	0.42
2:ZV:387:GLN:HG3	2:Zb:400:VAL:HG13	2.00	0.42
2:ZW:380:ARG:NE	2:Zc:393:ASP:OD2	2.52	0.42
2:ZZ:97:ASN:HD22	2:ZZ:332:ASN:ND2	2.17	0.42
2:ZZ:119:TYR:HB2	2:ZZ:128:ILE:HD11	2.01	0.42
2:ZZ:319:ASN:HB2	2:ZZ:353:PHE:CE1	2.54	0.42
2:Ze:381:ASN:O	2:Ze:382:TYR:C	2.61	0.42
2:Zf:395:ILE:HD13	2:Zf:395:ILE:HA	1.86	0.42
1:v:251:ASP:OD2	10:p:221:ILE:HD13	2.19	0.42
5:F:63:SER:O	5:F:67:ILE:HD12	2.19	0.42
5:G:87:GLN:HE22	6:K:102:MET:HG3	1.85	0.42
5:H:172:PRO:HG2	5:I:99:PHE:HE2	1.84	0.42
8:a:30:ASN:HD21	10:q:55:THR:HB	1.85	0.42
9:b:318:ASN:O	9:b:319:GLN:C	2.61	0.42
10:n:72:ASP:OD1	10:n:72:ASP:C	2.61	0.42
1:2:57:SER:OG	1:s:108:PRO:HG3	2.19	0.42
1:2:122:VAL:O	1:7:180:ASN:HB2	2.19	0.42
1:3:231:VAL:HG11	1:9:9:LYS:HG3	2.01	0.42
1:7:145:ASN:HB2	1:ZC:209:ASN:O	2.19	0.42
1:9:44:LEU:HB3	1:9:45:LEU:H	1.68	0.42
1:ZB:225:ASN:O	1:ZB:229:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZE:245:LYS:HE2	2:ZK:400:VAL:O	2.19	0.42
2:ZL:159:ASN:HD21	2:ZL:161:THR:HG23	1.84	0.42
2:ZL:380:ARG:HD3	2:ZL:380:ARG:HA	1.66	0.42
2:ZM:269:GLN:OE1	2:ZS:286:PRO:HG3	2.19	0.42
2:ZM:396:LEU:HD23	2:ZM:396:LEU:HA	1.85	0.42
2:ZN:373:VAL:O	2:ZN:377:VAL:HG23	2.19	0.42
2:ZP:269:GLN:NE2	2:ZV:146:ALA:HB3	2.35	0.42
2:ZQ:34:SER:HB3	2:ZQ:366:VAL:HG12	2.01	0.42
2:ZS:233:ASN:OD1	2:ZS:237:ILE:N	2.49	0.42
2:ZU:322:ASN:HB3	2:ZU:340:SER:HA	2.01	0.42
2:ZW:18:ASP:OD1	2:Zb:2:SER:N	2.52	0.42
2:ZX:99:GLN:HB3	2:ZX:111:MET:HE3	2.01	0.42
2:ZX:104:GLU:OE2	2:Zc:339:ALA:HA	2.19	0.42
2:Za:375:MET:HE2	2:Za:375:MET:HB2	1.82	0.42
2:Zc:213:HIS:HB2	2:Zc:223:PRO:HG3	2.01	0.42
2:Ze:150:THR:OG1	2:Ze:282:ASN:ND2	2.51	0.42
2:Zf:94:TYR:CG	2:Zf:320:PHE:HZ	2.37	0.42
2:Zf:187:TYR:HB3	2:Zf:191:GLY:HA2	2.00	0.42
1:t:5:LEU:HD23	1:t:5:LEU:HA	1.90	0.42
1:z:198:SER:O	1:z:198:SER:OG	2.31	0.42
4:E:148:SER:HB2	5:J:149:LEU:HD11	2.01	0.42
4:E:166:SER:C	4:E:168:ALA:H	2.27	0.42
5:J:138:MET:CE	5:J:171:LEU:HD23	2.41	0.42
1:0:42:GLU:OE2	1:v:189:GLU:CG	2.62	0.42
1:4:122:VAL:HG13	1:4:126:GLY:HA2	2.01	0.42
1:6:16:GLN:HE22	1:ZB:4:SER:HB3	1.84	0.42
1:7:49:ILE:HB	1:7:66:LEU:HB3	2.01	0.42
1:ZD:44:LEU:HD23	1:ZD:44:LEU:HA	1.88	0.42
1:ZE:235:GLN:HE22	2:ZK:7:VAL:HG21	1.83	0.42
2:ZH:111:MET:HE2	2:ZM:58:THR:HG21	2.01	0.42
2:ZI:66:THR:O	2:ZT:42:MET:HE1	2.20	0.42
2:ZL:78:SER:O	2:ZL:354:GLY:HA3	2.19	0.42
2:ZL:280:ASN:OD1	2:ZL:281:GLN:N	2.52	0.42
2:ZM:375:MET:SD	2:ZR:388:THR:OG1	2.72	0.42
2:ZN:165:PRO:HB3	2:ZN:176:ASP:O	2.19	0.42
2:ZP:50:LEU:HD23	2:ZP:50:LEU:HA	1.89	0.42
2:ZQ:319:ASN:OD1	2:ZQ:344:LEU:HB2	2.20	0.42
2:ZS:160:SER:OG	2:ZY:192:ASN:ND2	2.52	0.42
2:ZT:262:SER:OG	2:ZT:264:LEU:HG	2.18	0.42
2:ZY:116:LEU:HD11	2:ZY:315:ILE:HD11	2.02	0.42
2:ZY:382:TYR:CZ	2:Zd:395:ILE:HG23	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Za:396:LEU:HD23	2:Za:396:LEU:HA	1.85	0.42
2:Zg:33:LYS:NZ	2:Zg:362:GLU:OE2	2.52	0.42
1:s:6:TRP:CZ2	8:W:77:VAL:HG11	2.54	0.42
1:s:42:GLU:HG3	10:n:116:GLN:HE22	1.81	0.42
1:x:180:ASN:O	1:x:198:SER:HB2	2.20	0.42
1:y:189:GLU:O	1:y:191:LEU:HG	2.19	0.42
1:z:7:ILE:HG12	1:z:70:THR:O	2.19	0.42
3:A:23:PRO:HG3	3:A:68:TRP:HZ3	1.84	0.42
3:C:47:MET:HE3	5:G:210:MET:HE1	2.02	0.42
4:E:52:LEU:HD23	4:E:52:LEU:HA	1.87	0.42
4:E:251:LEU:HD23	4:E:251:LEU:HA	1.84	0.42
5:F:171:LEU:HD23	5:G:95:PHE:CZ	2.54	0.42
5:H:114:GLN:O	5:H:118:GLU:HG2	2.19	0.42
5:H:213:PRO:HA	5:H:214:PRO:HD3	1.92	0.42
5:J:189:ILE:O	5:J:192:PRO:HD2	2.19	0.42
6:N:59:PHE:CD2	6:N:59:PHE:C	2.97	0.42
6:O:69:ASN:OD1	6:O:69:ASN:N	2.52	0.42
8:W:4:LEU:HD22	8:W:126:MET:HE1	2.00	0.42
8:Z:106:MET:CE	10:q:5:ILE:HD11	2.49	0.42
9:l:312:VAL:HG12	9:l:315:ALA:HB2	2.01	0.42
10:p:181:LEU:HD11	10:p:193:LEU:HG	2.00	0.42
1:5:189:GLU:HA	1:ZA:42:GLU:HB2	2.00	0.42
1:6:77:THR:HG23	1:ZB:66:LEU:HD12	2.00	0.42
1:7:44:LEU:HD23	1:7:44:LEU:HA	1.84	0.42
1:ZA:86:LEU:HD22	1:ZA:96:ALA:HB1	2.01	0.42
1:ZB:164:GLN:C	1:ZB:166:ALA:N	2.78	0.42
1:ZD:89:THR:OG1	1:ZD:94:ASP:OD2	2.37	0.42
1:ZE:83:GLN:HG2	2:ZP:44:ALA:HB1	2.00	0.42
2:ZF:158:LEU:HD22	2:ZF:208:TRP:CZ3	2.54	0.42
2:ZF:374:ASN:HA	2:ZF:377:VAL:HG22	2.00	0.42
2:ZG:93:PHE:HB3	2:ZG:333:VAL:HG13	2.01	0.42
2:ZQ:337:THR:HG22	2:ZQ:339:ALA:H	1.84	0.42
2:ZQ:368:LEU:HD13	2:ZV:384:SER:OG	2.19	0.42
2:ZR:38:SER:O	2:ZR:55:ALA:N	2.51	0.42
2:ZS:109:VAL:HG12	2:ZS:115:GLN:HA	2.01	0.42
2:ZS:295:ASN:ND2	2:ZS:299:THR:HG1	2.17	0.42
2:ZS:373:VAL:O	2:ZS:377:VAL:HG23	2.20	0.42
2:ZT:379:GLN:HB2	2:ZY:391:THR:HG23	2.00	0.42
2:ZV:401:ASN:O	2:ZV:402:LEU:C	2.62	0.42
2:ZW:111:MET:HE2	2:ZW:111:MET:HA	2.00	0.42
2:ZY:156:ILE:HD11	2:ZY:180:LYS:HG2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zc:5:GLN:HG2	2:Zc:50:LEU:O	2.19	0.42
2:Zg:367:ASP:O	2:Zg:371:GLU:HG2	2.20	0.42
2:Zh:320:PHE:CD2	2:Zh:340:SER:HB2	2.54	0.42
1:t:95:VAL:O	1:t:118:GLY:HA3	2.20	0.42
1:t:251:ASP:OD1	10:n:221:ILE:HG21	2.20	0.42
1:u:95:VAL:O	1:u:118:GLY:HA3	2.20	0.42
1:w:260:LEU:CB	8:a:106:MET:HE1	2.39	0.42
1:y:22:ILE:HG21	1:y:233:MET:HG3	2.00	0.42
3:D:89:GLY:C	5:J:143:ARG:NE	2.77	0.42
4:E:125:LEU:O	4:E:129:MET:HG3	2.20	0.42
5:G:217:ILE:O	5:G:220:PRO:HD2	2.19	0.42
5:H:141:GLN:NE2	5:H:243:PHE:HA	2.34	0.42
5:I:190:PHE:CD1	5:J:220:PRO:HG3	2.55	0.42
5:J:83:ALA:HB3	5:J:84:PRO:CD	2.50	0.42
5:J:121:ILE:HG23	5:J:125:GLU:HB3	2.02	0.42
6:K:73:ALA:CB	7:Q:13:GLN:NE2	2.83	0.42
8:V:103:VAL:HG21	10:m:9:MET:CG	2.47	0.42
9:f:324:ASN:HB2	10:n:47:ASP:O	2.19	0.42
10:q:35:ARG:NH1	10:q:101:ARG:HG3	2.35	0.42
1:0:147:LEU:HD23	1:0:147:LEU:HA	1.84	0.42
1:0:231:VAL:HG11	1:6:9:LYS:HG3	2.01	0.42
1:1:67:GLN:HE22	1:w:186:SER:H	1.68	0.42
1:1:83:GLN:NE2	1:ZC:45:LEU:CD1	2.79	0.42
1:1:258:THR:CA	10:q:217:MET:HE1	2.33	0.42
1:2:79:ARG:HG3	1:2:79:ARG:NH1	2.34	0.42
1:5:74:PRO:HG2	1:ZA:66:LEU:HD21	2.00	0.42
1:6:123:ASP:OD1	1:6:127:GLN:N	2.50	0.42
1:8:100:GLN:HG3	1:8:210:GLY:O	2.20	0.42
1:8:154:ASP:O	1:8:156:VAL:HG23	2.20	0.42
1:9:37:GLN:HE21	1:9:79:ARG:NH1	2.08	0.42
1:ZC:195:THR:O	1:ZC:196:GLN:C	2.63	0.42
2:ZF:93:PHE:HB3	2:ZF:333:VAL:HG13	2.00	0.42
2:ZH:269:GLN:CB	2:ZN:286:PRO:CG	2.97	0.42
2:ZH:281:GLN:OE1	2:ZH:281:GLN:C	2.63	0.42
2:ZI:63:ASP:OD2	2:ZI:96:ARG:NH2	2.52	0.42
2:ZK:14:ALA:HB2	2:ZK:382:TYR:HE2	1.85	0.42
2:ZK:153:SER:HB2	2:ZK:280:ASN:OD1	2.19	0.42
2:ZM:381:ASN:O	2:ZM:385:ASN:ND2	2.53	0.42
2:ZP:382:TYR:CE1	2:ZU:395:ILE:HG23	2.54	0.42
2:ZR:160:SER:OG	2:ZX:192:ASN:OD1	2.37	0.42
2:ZS:233:ASN:HD21	2:ZS:237:ILE:HB	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZT:53:LYS:HE2	2:ZT:53:LYS:HB2	1.80	0.42
2:ZT:380:ARG:NH2	2:ZZ:397:ASN:OD1	2.53	0.42
2:ZW:65:THR:HG22	2:Zh:50:LEU:HB3	2.00	0.42
2:Za:234:GLU:O	2:Zg:190:GLN:CG	2.67	0.42
2:Zd:296:ASN:OD1	2:Zd:355:LYS:HD2	2.20	0.42
2:Zg:385:ASN:O	2:Zg:386:ALA:C	2.63	0.42
1:t:185:GLU:HB3	1:t:193:ILE:HG22	2.02	0.42
5:F:63:SER:HB2	5:F:66:ARG:HH21	1.84	0.42
5:H:40:LEU:HD21	7:S:5:LEU:HA	2.01	0.42
5:H:139:LEU:HD23	5:H:139:LEU:HA	1.86	0.42
5:J:92:LEU:HA	5:J:92:LEU:HD12	1.78	0.42
6:O:59:PHE:CZ	8:Z:4:LEU:HD22	2.55	0.42
7:U:121:THR:HG23	8:a:134:GLN:HG2	2.01	0.42
8:V:13:ALA:HA	8:V:62:VAL:HG12	2.02	0.42
8:Y:53:ALA:O	8:Y:54:ALA:C	2.63	0.42
8:a:16:ALA:HB1	8:a:49:PHE:CE1	2.55	0.42
8:a:109:SER:HG	10:q:240:ASN:CG	2.27	0.42
10:q:135:ILE:HG23	10:q:143:ILE:HG23	2.01	0.42
1:0:72:VAL:HB	1:v:28:ASN:OD1	2.19	0.42
1:0:164:GLN:H	1:0:164:GLN:HG3	1.58	0.42
1:2:238:ARG:HA	1:2:238:ARG:HD3	1.65	0.42
1:3:109:ASP:OD2	1:3:111:THR:HG22	2.20	0.42
1:5:185:GLU:HB3	1:5:193:ILE:HG12	2.02	0.42
1:6:1:MET:HB2	1:6:1:MET:HE3	1.86	0.42
1:7:128:LEU:HD23	1:7:128:LEU:HA	1.82	0.42
1:9:95:VAL:O	1:9:118:GLY:HA3	2.19	0.42
1:ZC:260:LEU:HD23	1:ZC:260:LEU:HA	1.75	0.42
1:ZD:122:VAL:O	2:ZI:322:ASN:HB2	2.20	0.42
2:ZG:210:VAL:O	2:ZG:227:SER:N	2.52	0.42
2:ZH:269:GLN:NE2	2:ZN:146:ALA:H	2.17	0.42
2:ZH:379:GLN:NE2	2:ZM:391:THR:HA	2.35	0.42
2:ZJ:373:VAL:CG1	2:ZP:7:VAL:HG22	2.49	0.42
2:ZN:6:ALA:HB1	2:ZN:389:ILE:HG12	2.02	0.42
2:ZP:73:LEU:HD21	2:ZP:292:TYR:HE1	1.83	0.42
2:ZR:380:ARG:HD3	2:ZR:380:ARG:HA	1.75	0.42
2:ZW:83:PHE:HB2	2:ZW:95:SER:O	2.19	0.42
2:Za:34:SER:HB3	2:Za:366:VAL:HG22	2.01	0.42
1:r:197:SER:HA	10:m:109:PRO:CG	2.50	0.42
1:v:256:LYS:CE	10:q:228:GLU:OE2	2.68	0.42
1:v:256:LYS:HG3	10:q:228:GLU:HG2	2.02	0.42
1:y:2:ILE:HG12	10:n:213:PRO:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:185:GLU:HB3	1:z:193:ILE:HG13	2.02	0.42
3:A:7:MET:HE3	3:B:66:GLY:HA3	2.01	0.42
3:A:24:LEU:HD22	5:G:203:VAL:HG22	2.01	0.42
4:E:138:LEU:HG	5:J:180:LYS:HG3	2.01	0.42
5:J:48:ILE:HD13	5:J:48:ILE:HA	1.83	0.42
8:a:34:VAL:HG13	8:a:35:THR:HG22	2.02	0.42
10:m:35:ARG:NH2	10:m:207:GLU:OE2	2.44	0.42
10:n:49:LEU:O	10:n:49:LEU:HD13	2.19	0.42
10:n:225:ARG:HD3	10:n:225:ARG:HA	1.35	0.42
10:o:143:ILE:HB	10:o:159:GLY:O	2.18	0.42
10:p:1:MET:HG2	10:p:241:GLU:CG	2.49	0.42
10:p:80:VAL:O	10:p:103:GLY:HA3	2.19	0.42
1:0:35:LYS:HD2	1:0:81:HIS:HA	2.01	0.42
1:0:257:LEU:CD2	10:p:214:VAL:HG22	2.48	0.42
1:1:100:GLN:HE22	1:w:147:LEU:HD23	1.84	0.42
1:2:43:ASP:HB2	1:x:188:GLY:O	2.20	0.42
1:5:175:LEU:HG	1:5:206:PRO:HG3	2.02	0.42
1:5:237:GLN:HE22	1:ZA:256:LYS:HE2	1.85	0.42
1:8:116:ARG:NH2	1:8:220:GLU:OE1	2.50	0.42
1:9:124:GLN:HB2	1:ZE:199:GLY:HA2	2.01	0.42
1:ZB:124:GLN:NE2	2:ZG:338:GLN:HG2	2.35	0.42
1:ZD:137:GLN:CA	1:ZD:139:ALA:H	2.31	0.42
2:ZO:71:ARG:HB3	2:ZO:71:ARG:HH11	1.84	0.42
2:ZO:380:ARG:HB3	2:ZU:396:LEU:HD13	2.02	0.42
2:ZO:380:ARG:HD3	2:ZO:380:ARG:HA	1.81	0.42
2:ZP:47:LYS:HE2	2:ZP:47:LYS:HB2	1.91	0.42
2:ZP:103:ASP:OD1	2:ZP:107:ASN:N	2.50	0.42
2:ZT:93:PHE:HB3	2:ZT:333:VAL:HG13	2.01	0.42
2:ZX:74:ASP:OD1	2:ZX:74:ASP:N	2.51	0.42
2:ZX:361:LEU:HD12	2:ZX:361:LEU:HA	1.89	0.42
2:ZY:60:ASP:OD2	2:ZY:365:ASN:ND2	2.53	0.42
2:ZY:126:PRO:HG2	2:ZY:310:GLN:NE2	2.35	0.42
2:Zd:16:ASN:HB2	2:Zd:39:PHE:HZ	1.85	0.42
1:r:7:ILE:O	1:r:10:THR:OG1	2.31	0.42
1:x:2:ILE:O	1:x:3:SER:HB3	2.18	0.42
1:x:193:ILE:HG22	1:x:194:GLU:O	2.20	0.42
1:y:17:THR:C	1:y:19:MET:H	2.28	0.42
1:y:52:PRO:O	8:X:87:ALA:O	2.35	0.42
1:z:173:LEU:HD23	1:z:173:LEU:HA	1.84	0.42
5:I:171:LEU:HB3	5:I:172:PRO:HD3	2.01	0.42
5:J:225:LEU:HD12	5:J:229:VAL:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:P:61:LEU:HD11	7:U:50:LYS:HZ2	1.85	0.42
8:V:127:LEU:O	8:V:128:LYS:C	2.57	0.42
8:W:126:MET:HE3	8:W:126:MET:HB3	1.80	0.42
10:p:76:ARG:HE	10:p:78:LEU:HD12	1.84	0.42
1:1:129:VAL:HA	1:1:136:VAL:HG23	2.02	0.42
1:3:143:PRO:HG2	1:3:159:VAL:HG21	2.01	0.42
1:4:42:GLU:CD	1:z:189:GLU:HG2	2.44	0.42
1:6:238:ARG:NE	1:ZC:251:ASP:OD1	2.50	0.42
1:7:18:ASN:O	1:7:21:VAL:HB	2.20	0.42
1:ZC:194:GLU:HG2	1:ZC:194:GLU:O	2.20	0.42
2:ZM:59:GLN:NE2	2:ZM:334:TRP:HE1	2.18	0.42
2:ZP:71:ARG:O	2:ZP:359:GLY:HA2	2.19	0.42
2:ZR:204:LYS:HG2	2:ZR:205:ASP:H	1.84	0.42
2:ZS:331:ASP:HA	2:ZX:40:ALA:HB1	2.01	0.42
2:ZU:185:THR:OG1	2:Zf:133:ASN:ND2	2.53	0.42
2:ZV:212:THR:HG21	2:ZV:246:ILE:HD11	2.01	0.42
2:ZV:213:HIS:HB2	2:ZV:223:PRO:HG3	2.02	0.42
2:Zb:110:ASN:OD1	2:Zb:114:MET:N	2.50	0.42
2:Zb:326:LEU:HD12	2:Zb:340:SER:HB2	2.01	0.42
2:Zc:38:SER:O	2:Zc:55:ALA:N	2.52	0.42
1:u:50:ARG:HB2	9:i:322:PRO:CG	2.49	0.42
1:v:12:LEU:HD12	10:p:214:VAL:HG13	2.01	0.42
1:v:140:ILE:HG21	1:v:157:VAL:HG11	2.01	0.42
1:y:128:LEU:O	1:y:136:VAL:HG23	2.20	0.42
3:A:52:ILE:N	3:A:52:ILE:HD12	2.35	0.42
4:E:254:ILE:HD13	4:E:254:ILE:HA	1.86	0.42
5:F:162:PRO:CD	5:F:163:GLU:N	2.82	0.42
5:G:121:ILE:HG12	5:G:125:GLU:HB3	2.02	0.42
5:H:180:LYS:HD2	5:I:230:ASP:OD1	2.20	0.42
6:P:76:GLN:NE2	8:V:7:PHE:HE1	2.18	0.42
7:T:3:ASP:O	7:T:4:ARG:C	2.62	0.42
10:n:221:ILE:HG23	10:n:225:ARG:HH12	1.84	0.42
1:0:77:THR:HG23	1:5:66:LEU:HD12	2.02	0.42
1:3:242:ILE:HD13	1:9:1:MET:HE1	2.00	0.42
1:4:1:MET:HB2	1:y:235:GLN:CG	2.50	0.42
1:5:208:LEU:HB3	1:5:209:ASN:H	1.64	0.42
1:6:128:LEU:HD23	1:6:128:LEU:HA	1.86	0.42
1:9:41:PHE:HA	1:9:74:PRO:HA	2.01	0.42
1:9:116:ARG:HG3	1:9:116:ARG:O	2.20	0.42
1:ZA:104:GLN:HG2	1:ZA:137:GLN:HG3	2.01	0.42
1:ZD:95:VAL:O	1:ZD:118:GLY:HA3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZF:106:ARG:HB3	2:ZF:139:ILE:O	2.19	0.42
2:ZK:71:ARG:O	2:ZK:359:GLY:HA2	2.20	0.42
2:ZM:320:PHE:CE1	2:ZM:343:ALA:HB2	2.55	0.42
2:ZT:3:PHE:HB3	2:ZT:7:VAL:HG23	2.02	0.42
2:ZU:197:ASN:HD21	2:ZU:215:SER:HB2	1.85	0.42
2:ZU:386:ALA:O	2:ZU:389:ILE:HG22	2.20	0.42
2:Zb:77:ILE:HD12	2:Zb:96:ARG:HD2	2.01	0.42
2:Zb:179:ASN:OD1	2:Zb:202:LYS:N	2.35	0.42
2:Zc:21:GLY:HA3	2:Zh:5:GLN:HE21	1.85	0.42
2:Zh:154:MET:HE2	2:Zh:154:MET:HB3	1.99	0.42
1:r:62:LEU:HG	8:W:84:LEU:CD1	2.44	0.42
1:z:85:ASN:O	1:z:221:THR:OG1	2.33	0.42
3:B:36:SER:HB3	3:C:44:ILE:HG23	2.02	0.42
3:C:1:MET:HE2	3:C:1:MET:HB3	1.91	0.42
3:D:77:VAL:HG11	5:J:225:LEU:HD11	2.01	0.42
6:N:69:ASN:HD21	7:T:17:ASN:HA	1.84	0.42
7:R:34:ASP:OD1	8:W:20:ARG:NH1	2.51	0.42
8:a:22:ASN:HB3	10:q:53:THR:O	2.20	0.42
1:0:105:VAL:HG22	1:0:136:VAL:HG22	2.02	0.41
1:1:252:GLN:NE2	1:w:237:GLN:HE22	2.18	0.41
1:2:145:ASN:ND2	1:7:209:ASN:CG	2.78	0.41
1:5:10:THR:OG1	1:5:71:GLY:HA3	2.20	0.41
1:5:44:LEU:HD22	1:u:86:LEU:CD1	2.39	0.41
1:6:85:ASN:OD1	2:ZH:50:LEU:CD2	2.68	0.41
1:9:44:LEU:HD21	1:9:73:ARG:HB2	2.02	0.41
1:ZA:55:GLN:HG3	1:ZA:57:SER:O	2.19	0.41
1:ZB:28:ASN:HD21	2:ZG:52:VAL:CB	2.33	0.41
2:ZH:128:ILE:HD13	2:ZH:314:GLN:OE1	2.20	0.41
2:ZI:112:GLN:HG2	2:ZI:331:ASP:HB3	2.01	0.41
2:ZI:204:LYS:O	2:ZI:207:GLU:N	2.53	0.41
2:ZP:170:PHE:HE2	2:ZP:223:PRO:HG2	1.85	0.41
2:ZP:372:LEU:HD21	2:ZU:384:SER:OG	2.20	0.41
2:ZR:229:THR:O	2:ZR:241:GLY:HA3	2.19	0.41
2:ZR:235:ASN:OD1	2:ZX:189:SER:HB2	2.19	0.41
2:ZU:78:SER:HB3	2:ZU:79:GLN:OE1	2.19	0.41
2:ZU:108:LEU:HD12	2:ZU:137:ILE:HG21	2.02	0.41
2:ZW:285:LYS:HB2	2:ZW:285:LYS:HE3	1.91	0.41
2:ZX:396:LEU:HD23	2:ZX:396:LEU:HA	1.78	0.41
2:Zb:269:GLN:HG3	2:Zh:190:GLN:O	2.20	0.41
2:Zc:368:LEU:HD23	2:Zc:368:LEU:HA	1.87	0.41
2:Zc:388:THR:O	2:Zc:392:GLN:HG2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Zd:397:ASN:C	2:Zd:399:LEU:H	2.28	0.41
2:Ze:85:LEU:HD23	2:Ze:114:MET:HB3	2.02	0.41
3:D:18:LEU:CD2	4:E:227:MET:HB3	2.50	0.41
5:F:194:LEU:HD12	5:G:220:PRO:HG2	2.02	0.41
5:H:68:ILE:HD12	5:H:68:ILE:HA	1.83	0.41
6:K:68:LEU:H	6:K:68:LEU:HD12	1.85	0.41
6:K:84:MET:HE2	7:Q:134:LEU:HD21	2.02	0.41
7:R:24:GLU:HG2	8:W:6:ILE:HD11	2.02	0.41
10:m:123:GLU:H	10:m:123:GLU:HG3	1.54	0.41
10:o:82:LEU:HD11	10:o:163:LEU:HD22	2.02	0.41
1:3:20:ASP:OD1	1:8:4:SER:OG	2.28	0.41
1:3:247:VAL:HG12	1:8:260:LEU:HD11	2.02	0.41
1:7:56:SER:HB3	1:7:62:LEU:CB	2.50	0.41
1:7:154:ASP:OD1	1:7:154:ASP:N	2.47	0.41
1:7:194:GLU:OE2	1:7:201:PRO:HD3	2.20	0.41
1:ZB:26:LEU:HD22	2:ZG:384:SER:OG	2.20	0.41
1:ZB:29:VAL:HG11	2:ZG:381:ASN:ND2	2.35	0.41
1:ZB:244:SER:OG	2:ZG:398:THR:HG22	2.19	0.41
1:ZD:58:GLU:HB3	1:ZD:59:GLN:OE1	2.20	0.41
1:ZD:239:ALA:O	1:ZD:240:TYR:C	2.63	0.41
2:ZF:198:VAL:HG22	2:ZF:212:THR:HG22	2.02	0.41
2:ZH:280:ASN:OD1	2:ZH:281:GLN:N	2.53	0.41
2:ZI:42:MET:O	2:ZI:50:LEU:HB2	2.20	0.41
2:ZN:73:LEU:HD21	2:ZN:292:TYR:HE2	1.86	0.41
2:ZS:369:SER:HA	2:Zd:399:LEU:HD13	2.00	0.41
2:ZT:24:ILE:HG22	2:ZY:385:ASN:OD1	2.20	0.41
2:ZT:125:PRO:HA	2:ZT:126:PRO:HD3	1.96	0.41
2:ZX:106:ARG:CD	2:Zc:321:ALA:HB1	2.50	0.41
2:ZZ:112:GLN:HG2	2:ZZ:331:ASP:HB3	2.02	0.41
2:Za:83:PHE:O	2:Za:94:TYR:HA	2.19	0.41
2:Za:328:SER:HB2	2:Zf:43:PHE:CD1	2.55	0.41
2:Zf:298:GLY:O	2:Zf:315:ILE:HG13	2.20	0.41
2:Zh:20:ILE:HG23	2:Zh:371:GLU:OE2	2.20	0.41
2:Zh:380:ARG:HD3	2:Zh:380:ARG:HA	1.76	0.41
1:r:62:LEU:HD21	8:W:83:PRO:HD2	2.01	0.41
1:s:158:SER:HB3	1:s:169:GLN:HE21	1.85	0.41
1:t:247:VAL:HG11	1:y:260:LEU:HD21	2.03	0.41
1:u:154:ASP:O	1:u:154:ASP:OD2	2.38	0.41
1:y:140:ILE:HD13	1:y:157:VAL:HG21	2.01	0.41
3:D:18:LEU:HD22	4:E:227:MET:HB3	2.01	0.41
5:G:171:LEU:HD23	5:H:95:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:T:92:GLN:CD	8:Z:22:ASN:HD22	2.28	0.41
7:U:92:GLN:HE21	8:a:19:LYS:HG2	1.85	0.41
10:o:193:LEU:HD23	10:o:193:LEU:HA	1.92	0.41
10:p:80:VAL:HG11	10:p:137:ILE:HG21	2.02	0.41
1:1:124:GLN:HB2	1:6:199:GLY:N	2.35	0.41
1:2:178:PHE:CE1	1:2:184:LEU:HD11	2.56	0.41
1:3:95:VAL:O	1:3:118:GLY:HA3	2.20	0.41
1:4:67:GLN:NE2	1:z:185:GLU:OE2	2.53	0.41
1:5:92:SER:O	1:5:216:GLN:NE2	2.42	0.41
1:6:145:ASN:HB2	1:ZB:209:ASN:O	2.19	0.41
1:9:85:ASN:CB	2:ZK:4:SER:CB	2.97	0.41
1:ZB:44:LEU:HD23	1:ZB:44:LEU:HA	1.87	0.41
1:ZE:167:PRO:HG2	2:ZP:338:GLN:HE22	1.83	0.41
2:ZG:87:ASP:OD1	2:ZG:91:SER:N	2.48	0.41
2:ZI:105:ASN:OD1	2:ZI:105:ASN:N	2.53	0.41
2:ZL:74:ASP:N	2:ZL:74:ASP:OD1	2.53	0.41
2:ZN:95:SER:OG	2:ZN:332:ASN:O	2.30	0.41
2:ZN:184:VAL:HG13	2:ZN:196:MET:HB2	2.01	0.41
2:ZO:148:SER:HB3	2:ZO:188:ASP:C	2.45	0.41
2:ZO:235:ASN:O	2:ZO:237:ILE:N	2.51	0.41
2:ZQ:99:GLN:HG2	2:ZQ:111:MET:HE3	2.02	0.41
2:ZR:10:LEU:HG	2:ZR:382:TYR:CE2	2.55	0.41
2:ZT:121:ALA:HB2	2:ZT:128:ILE:HD13	2.03	0.41
2:ZW:17:LEU:HD13	2:Zb:395:ILE:HD11	2.02	0.41
2:ZX:16:ASN:HB2	2:ZX:39:PHE:HZ	1.85	0.41
2:ZX:159:ASN:HD21	2:ZX:161:THR:HG1	1.62	0.41
2:ZX:376:ILE:HG23	2:Zd:393:ASP:OD2	2.20	0.41
2:Za:53:LYS:HB2	2:Za:53:LYS:HE2	1.92	0.41
2:Zc:25:ALA:HB1	2:Zh:52:VAL:HG12	2.02	0.41
2:Zg:41:ASP:OD1	2:Zg:41:ASP:N	2.52	0.41
1:s:43:ASP:OD1	1:s:43:ASP:N	2.53	0.41
1:t:258:THR:HB	10:n:228:GLU:HB2	2.02	0.41
1:u:146:ALA:O	1:z:100:GLN:NE2	2.50	0.41
1:w:223:ASN:O	1:w:223:ASN:OD1	2.38	0.41
5:F:175:VAL:O	5:F:179:LEU:HG	2.20	0.41
5:J:143:ARG:CZ	5:J:180:LYS:HE2	2.50	0.41
6:K:86:ILE:CD1	6:P:98:GLU:HG3	2.47	0.41
7:Q:93:PRO:HB2	10:m:46:VAL:CG1	2.43	0.41
8:W:47:VAL:O	9:e:313:PRO:CD	2.68	0.41
8:W:95:ASN:OD1	8:W:95:ASN:N	2.43	0.41
1:2:209:ASN:HB2	1:x:145:ASN:HD22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:2:ILE:HD13	1:4:250:THR:CG2	2.41	0.41
1:5:24:ASN:CA	1:ZA:7:ILE:HG21	2.50	0.41
1:6:142:ILE:HD13	1:6:149:ILE:HD13	2.01	0.41
1:9:173:LEU:HD23	1:9:173:LEU:HA	1.93	0.41
2:ZF:181:LYS:HE3	2:ZF:181:LYS:HB2	1.85	0.41
2:ZH:270:ASN:CB	2:ZN:191:GLY:O	2.68	0.41
2:ZI:183:THR:OG1	2:ZT:131:GLY:O	2.38	0.41
2:ZI:324:GLU:C	2:ZI:326:LEU:N	2.78	0.41
2:ZK:380:ARG:HD3	2:ZK:380:ARG:HA	1.53	0.41
2:ZL:22:ASN:OD1	2:ZL:26:ASN:ND2	2.53	0.41
2:ZO:49:GLY:O	2:ZO:50:LEU:C	2.64	0.41
2:ZP:107:ASN:ND2	2:ZP:138:THR:HG22	2.33	0.41
2:ZP:159:ASN:N	2:ZP:274:ASN:OD1	2.47	0.41
2:ZQ:307:GLU:OE1	2:Zb:92:VAL:CG2	2.67	0.41
2:ZT:128:ILE:HD13	2:ZT:128:ILE:HA	1.83	0.41
2:ZU:112:GLN:HE21	2:ZZ:40:ALA:HB2	1.85	0.41
2:ZV:93:PHE:HB3	2:ZV:333:VAL:HG22	2.03	0.41
2:Za:108:LEU:HD23	2:Za:108:LEU:HA	1.83	0.41
2:Za:284:TYR:HB3	2:Za:308:GLN:HE22	1.84	0.41
2:Zb:233:ASN:OD1	2:Zb:237:ILE:N	2.52	0.41
2:Zc:348:ALA:HB2	2:Zc:356:LEU:HG	2.02	0.41
2:Zg:116:LEU:HD12	2:Zg:116:LEU:HA	1.90	0.41
1:s:77:THR:HG23	1:x:66:LEU:HB2	2.01	0.41
1:t:49:ILE:HD11	1:t:68:ILE:HD11	2.03	0.41
1:u:98:LYS:HD3	1:u:213:LEU:HD12	2.03	0.41
1:v:257:LEU:HD13	10:q:231:MET:CE	2.41	0.41
1:y:6:TRP:O	1:y:7:ILE:C	2.62	0.41
1:y:88:GLN:HB2	1:y:218:TYR:CE1	2.55	0.41
3:D:14:MET:HG2	4:E:230:ALA:HB2	2.02	0.41
4:E:178:LEU:HD12	4:E:182:ASN:ND2	2.33	0.41
5:G:129:LYS:HD3	5:G:129:LYS:HA	1.80	0.41
5:J:124:GLN:H	5:J:124:GLN:HG2	1.67	0.41
5:J:217:ILE:O	5:J:220:PRO:HD2	2.20	0.41
7:Q:133:VAL:C	7:Q:135:GLN:N	2.78	0.41
10:m:29:ALA:O	10:m:209:SER:OG	2.37	0.41
10:n:227:PHE:O	10:n:228:GLU:C	2.62	0.41
10:p:89:VAL:HG22	10:p:99:TYR:CD1	2.56	0.41
1:0:89:THR:HG23	1:0:91:ASN:H	1.86	0.41
1:1:128:LEU:O	1:1:136:VAL:HG23	2.20	0.41
1:2:50:ARG:HD3	1:2:66:LEU:HB2	2.03	0.41
1:8:153:ARG:HG2	1:8:214:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ZA:52:PRO:HA	1:ZA:65:GLY:H	1.86	0.41
1:ZD:77:THR:N	2:ZI:47:LYS:HE3	2.35	0.41
1:ZD:123:ASP:OD1	1:ZD:123:ASP:N	2.47	0.41
1:ZE:70:THR:CG2	1:ZE:71:GLY:H	2.32	0.41
2:ZH:306:ASN:C	2:ZH:307:GLU:HG2	2.45	0.41
2:ZH:352:ASN:O	2:ZH:352:ASN:CG	2.64	0.41
2:ZH:399:LEU:O	2:ZH:402:LEU:HG	2.21	0.41
2:ZI:323:ASN:H	2:ZI:323:ASN:HD22	1.69	0.41
2:ZM:87:ASP:OD2	2:ZM:87:ASP:N	2.45	0.41
2:ZN:167:LYS:NZ	2:ZN:168:THR:O	2.54	0.41
2:ZS:183:THR:CB	2:Zd:132:ALA:HA	2.50	0.41
2:ZS:232:PHE:HB3	2:ZS:236:GLY:HA2	2.01	0.41
2:ZS:245:ASN:OD1	2:ZS:245:ASN:N	2.53	0.41
2:ZS:382:TYR:CZ	2:ZX:395:ILE:HG23	2.56	0.41
2:ZT:380:ARG:HD2	2:ZZ:396:LEU:HB3	2.01	0.41
2:ZU:3:PHE:O	2:ZU:7:VAL:HG23	2.20	0.41
2:ZV:198:VAL:HG12	2:ZV:212:THR:HG22	2.03	0.41
2:ZW:376:ILE:HG23	2:Zc:393:ASP:OD1	2.20	0.41
2:ZZ:107:ASN:ND2	2:ZZ:138:THR:HG22	2.35	0.41
2:ZZ:269:GLN:HG3	2:Zf:190:GLN:O	2.20	0.41
2:Zc:71:ARG:O	2:Zc:359:GLY:HA2	2.20	0.41
2:Zc:101:LYS:CE	2:Zh:322:ASN:HD21	2.27	0.41
2:Zc:304:TYR:HE1	2:Zc:310:GLN:HB3	1.86	0.41
1:t:126:GLY:HA3	1:t:141:THR:HG23	2.02	0.41
1:v:257:LEU:CG	10:q:231:MET:HE1	2.45	0.41
1:w:113:ALA:HB1	1:w:191:LEU:HB3	2.02	0.41
1:x:19:MET:HE1	1:x:233:MET:HG2	2.02	0.41
1:y:47:GLN:CB	10:n:68:PRO:HG3	2.50	0.41
3:C:40:ALA:CB	3:D:44:ILE:HD11	2.50	0.41
4:E:101:PHE:CE2	5:F:80:THR:HG21	2.55	0.41
4:E:104:LEU:CD2	5:F:80:THR:HG22	2.51	0.41
5:F:38:TRP:HB2	6:L:46:SER:CB	2.46	0.41
5:J:100:ILE:O	5:J:244:TYR:OH	2.34	0.41
6:P:82:MET:HE2	6:P:82:MET:HA	2.03	0.41
7:S:16:LEU:HD11	7:S:120:LEU:HG	2.02	0.41
7:T:39:GLN:HA	7:T:99:THR:HB	2.01	0.41
8:W:126:MET:HG2	8:W:126:MET:H	1.60	0.41
8:a:116:ILE:HD11	10:q:244:ALA:HB2	2.02	0.41
10:p:2:ASP:OD2	10:p:3:HIS:N	2.54	0.41
10:p:15:THR:OG1	10:p:226:ARG:NH1	2.53	0.41
1:0:242:ILE:HD12	1:v:230:LEU:CD1	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:137:GLN:HA	1:4:138:PRO:HA	1.71	0.41
1:6:225:ASN:O	1:6:229:GLU:HG2	2.20	0.41
1:7:237:GLN:NE2	1:ZC:252:GLN:OE1	2.53	0.41
1:8:28:ASN:ND2	1:ZD:43:ASP:OD1	2.53	0.41
2:ZF:85:LEU:HD13	2:ZF:114:MET:HB2	2.02	0.41
2:ZH:111:MET:SD	2:ZH:111:MET:N	2.94	0.41
2:ZM:102:LEU:HD12	2:ZM:102:LEU:HA	1.88	0.41
2:ZM:237:ILE:H	2:ZM:237:ILE:HD12	1.85	0.41
2:ZM:290:VAL:HA	2:ZR:352:ASN:ND2	2.35	0.41
2:ZM:387:GLN:OE1	2:ZS:400:VAL:HG13	2.20	0.41
2:ZO:268:GLN:NE2	2:ZU:190:GLN:NE2	2.68	0.41
2:ZP:178:TYR:HA	2:ZP:201:VAL:CG1	2.51	0.41
2:ZQ:22:ASN:HB2	2:ZV:5:GLN:NE2	2.35	0.41
2:ZT:367:ASP:HB3	2:ZT:370:LYS:HG3	2.03	0.41
2:ZU:102:LEU:HD21	2:ZU:106:ARG:HA	2.02	0.41
2:ZU:368:LEU:HA	2:ZU:368:LEU:HD23	1.80	0.41
2:ZW:212:THR:HG21	2:ZW:246:ILE:HG21	2.03	0.41
2:ZY:171:SER:O	2:ZY:177:SER:OG	2.39	0.41
2:ZZ:380:ARG:HB3	2:Zf:396:LEU:HD12	2.02	0.41
1:r:161:GLN:HA	1:r:161:GLN:OE1	2.21	0.41
1:u:66:LEU:HD21	10:p:17:ASN:ND2	2.35	0.41
1:v:246:ALA:HB2	10:q:220:MET:HE2	2.02	0.41
1:x:6:TRP:CB	10:m:70:GLN:HB2	2.47	0.41
1:x:83:GLN:HE22	1:x:86:LEU:HD21	1.85	0.41
1:y:44:LEU:HD12	10:n:71:LEU:HD23	1.89	0.41
3:A:69:MET:O	3:A:70:LEU:C	2.62	0.41
4:E:172:LEU:O	4:E:175:ALA:HB3	2.21	0.41
5:F:97:THR:HA	5:F:100:ILE:HG22	2.01	0.41
7:Q:62:GLY:HA2	7:Q:79:SER:HB3	2.01	0.41
7:T:90:PRO:HD2	10:p:49:LEU:HG	2.03	0.41
10:q:146:LEU:O	10:q:148:PRO:N	2.53	0.41
1:0:68:ILE:HD13	1:v:17:THR:HG23	2.01	0.41
1:1:22:ILE:HD11	1:1:232:ASN:HB3	2.02	0.41
1:6:40:VAL:O	1:6:75:VAL:N	2.50	0.41
1:7:109:ASP:OD2	1:7:109:ASP:C	2.63	0.41
1:8:58:GLU:HA	1:s:156:VAL:HG21	2.02	0.41
1:ZA:7:ILE:HG23	1:ZA:71:GLY:HA2	2.03	0.41
1:ZD:77:THR:O	1:ZD:77:THR:OG1	2.32	0.41
2:ZF:154:MET:HE3	2:ZF:184:VAL:HB	2.02	0.41
2:ZG:214:ASP:OD2	2:ZG:249:GLY:N	2.46	0.41
2:ZL:128:ILE:HD12	2:ZL:314:GLN:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZL:157:ASN:ND2	2:ZR:143:LEU:HD13	2.36	0.41
2:ZM:99:GLN:HG2	2:ZM:361:LEU:HD11	2.02	0.41
2:ZM:331:ASP:HA	2:ZR:40:ALA:HB1	2.02	0.41
2:ZO:112:GLN:HG2	2:ZO:331:ASP:HB3	2.02	0.41
2:ZR:20:ILE:HG21	2:ZR:375:MET:HB2	2.02	0.41
2:ZS:118:GLY:HA3	2:ZS:314:GLN:O	2.21	0.41
2:ZS:158:LEU:HD13	2:ZS:208:TRP:CD2	2.56	0.41
2:ZT:382:TYR:CD1	2:ZY:395:ILE:HG23	2.55	0.41
2:ZU:78:SER:O	2:ZU:354:GLY:HA3	2.20	0.41
2:ZU:232:PHE:HE2	2:ZU:267:MET:HA	1.86	0.41
2:ZX:242:GLY:HA2	2:ZX:263:PHE:HB2	2.03	0.41
2:ZX:267:MET:HE3	2:ZX:267:MET:HB3	1.95	0.41
2:ZX:290:VAL:HG12	2:ZX:303:ASN:O	2.20	0.41
2:ZZ:106:ARG:HD2	2:ZZ:106:ARG:HA	1.80	0.41
2:ZZ:369:SER:CB	2:Zf:382:TYR:OH	2.66	0.41
2:Zd:210:VAL:HG11	2:Zd:263:PHE:CZ	2.55	0.41
2:Ze:367:ASP:O	2:Ze:371:GLU:HG2	2.21	0.41
1:r:210:GLY:HA2	10:m:148:PRO:C	2.46	0.41
1:s:253:MET:HE2	10:n:224:ALA:HA	2.02	0.41
1:t:3:SER:O	1:t:7:ILE:HD12	2.21	0.41
1:t:80:LEU:HD23	1:t:80:LEU:HA	1.93	0.41
1:v:38:ARG:HE	1:v:38:ARG:HB3	1.65	0.41
1:y:3:SER:O	1:y:7:ILE:HG13	2.20	0.41
1:z:129:VAL:HA	1:z:136:VAL:HG23	2.03	0.41
1:z:225:ASN:O	1:z:229:GLU:HG2	2.20	0.41
3:C:40:ALA:HB3	3:D:44:ILE:HD11	2.02	0.41
3:C:54:LYS:HZ1	5:I:207:LEU:HA	1.86	0.41
5:J:139:LEU:C	5:J:141:GLN:H	2.28	0.41
7:Q:111:ASP:OD1	8:W:3:LEU:HD23	2.21	0.41
8:Y:112:TYR:CE2	8:Y:116:ILE:HD11	2.55	0.41
8:Z:52:ASP:HB2	8:Z:63:LYS:HB3	2.03	0.41
8:a:22:ASN:ND2	10:q:54:ARG:NH1	2.69	0.41
10:q:14:GLN:OE1	10:q:17:ASN:ND2	2.53	0.41
1:1:3:SER:C	1:1:5:LEU:H	2.28	0.41
1:2:180:ASN:O	1:2:181:ASP:C	2.62	0.41
1:6:260:LEU:HD13	1:v:234:ILE:HD11	2.03	0.41
1:7:57:SER:HB3	1:7:60:THR:HG22	2.03	0.41
1:ZB:231:VAL:HG11	2:ZH:7:VAL:CG2	2.51	0.41
1:ZD:231:VAL:HG11	2:ZJ:7:VAL:HG22	2.02	0.41
2:ZG:60:ASP:OD1	2:ZG:62:THR:HG23	2.21	0.41
2:ZG:369:SER:HB3	2:ZM:382:TYR:OH	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZI:143:LEU:HD12	2:ZI:287:GLY:O	2.20	0.41
2:ZJ:75:VAL:O	2:ZJ:98:GLY:HA3	2.21	0.41
2:ZJ:380:ARG:HD2	2:ZP:396:LEU:HB3	2.02	0.41
2:ZP:104:GLU:H	2:ZP:104:GLU:CD	2.29	0.41
2:ZQ:199:TYR:O	2:ZQ:210:VAL:HA	2.21	0.41
2:ZQ:202:LYS:HB2	2:ZQ:202:LYS:HE2	1.97	0.41
2:ZU:38:SER:O	2:ZU:55:ALA:N	2.54	0.41
2:ZU:139:ILE:HA	2:ZU:312:LEU:HD22	2.03	0.41
2:ZW:184:VAL:HG13	2:ZW:196:MET:HB2	2.02	0.41
2:Zd:33:LYS:O	2:Zd:59:GLN:NE2	2.54	0.41
2:Ze:86:VAL:HG23	2:Ze:117:THR:HG21	2.03	0.41
2:Zf:267:MET:HG3	2:Zf:268:GLN:N	2.35	0.41
2:Zg:103:ASP:HB3	2:Zg:109:VAL:HG21	2.01	0.41
1:r:73:ARG:HD2	8:V:78:TYR:OH	2.19	0.41
1:t:2:ILE:O	1:t:3:SER:HB3	2.21	0.41
1:t:175:LEU:HD11	1:t:214:LEU:HD21	2.02	0.41
1:u:62:LEU:HD21	8:Z:84:LEU:HD23	1.98	0.41
3:C:47:MET:CE	5:G:210:MET:HE1	2.50	0.41
5:G:234:LEU:HD12	5:G:234:LEU:HA	1.92	0.41
6:K:86:ILE:HD11	6:P:99:VAL:HG22	2.03	0.41
7:R:29:ASN:HD22	7:R:38:TYR:HE2	1.69	0.41
7:S:92:GLN:NE2	8:Y:22:ASN:ND2	2.68	0.41
8:Z:54:ALA:HB3	8:Z:55:PRO:HD3	2.02	0.41
1:0:73:ARG:NE	10:p:202:MET:SD	2.93	0.41
1:1:52:PRO:CG	8:a:89:GLY:HA3	2.50	0.41
1:1:179:MET:CE	1:w:126:GLY:HA2	2.50	0.41
1:3:46:TYR:HA	1:3:69:GLY:HA2	2.02	0.41
1:3:138:PRO:O	1:3:139:ALA:HB3	2.21	0.41
1:5:45:LEU:N	1:5:45:LEU:HD23	2.36	0.41
1:5:102:PHE:HE2	1:5:181:ASP:OD1	2.03	0.41
1:9:48:THR:O	1:9:49:ILE:C	2.63	0.41
1:ZA:241:GLU:HG2	2:ZF:398:THR:HG21	2.02	0.41
1:ZD:77:THR:H	2:ZI:47:LYS:CE	2.33	0.41
1:ZD:122:VAL:HG13	2:ZI:322:ASN:HA	2.02	0.41
1:ZD:205:THR:HA	1:ZD:206:PRO:HD3	1.94	0.41
1:ZE:256:LYS:HD3	1:ZE:256:LYS:HA	1.89	0.41
2:ZF:197:ASN:HD22	2:ZF:197:ASN:N	2.17	0.41
2:ZG:125:PRO:HA	2:ZG:126:PRO:HD3	1.94	0.41
2:ZG:144:MET:HE2	2:ZG:310:GLN:HE21	1.85	0.41
2:ZH:78:SER:HG	2:ZH:355:LYS:H	1.65	0.41
2:ZI:374:ASN:C	2:ZI:376:ILE:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:ZJ:156:ILE:HG13	2:ZJ:276:ILE:HA	2.03	0.41
2:ZJ:268:GLN:O	2:ZP:190:GLN:NE2	2.48	0.41
2:ZL:16:ASN:HB2	2:ZL:39:PHE:HZ	1.85	0.41
2:ZM:149:THR:O	2:ZM:259:PHE:HB3	2.21	0.41
2:ZM:281:GLN:NE2	2:ZM:283:GLY:O	2.47	0.41
2:ZN:222:ALA:HA	2:ZN:223:PRO:HD3	1.96	0.41
2:ZN:233:ASN:ND2	2:ZN:237:ILE:HB	2.35	0.41
2:ZO:160:SER:HA	2:ZO:268:GLN:HE21	1.85	0.41
2:ZO:282:ASN:OD1	2:ZO:282:ASN:N	2.47	0.41
2:ZP:328:SER:HB3	2:ZU:43:PHE:CD2	2.56	0.41
2:ZR:79:GLN:HB3	2:ZR:80:ASN:H	1.75	0.41
2:ZR:183:THR:HG22	2:ZR:197:ASN:HD22	1.86	0.41
2:ZR:396:LEU:HD23	2:ZR:396:LEU:HA	1.76	0.41
2:ZS:71:ARG:NH1	2:ZS:74:ASP:OD1	2.54	0.41
2:ZS:381:ASN:O	2:ZS:385:ASN:ND2	2.54	0.41
2:ZT:17:LEU:CD1	2:ZY:395:ILE:CD1	2.88	0.41
2:ZT:103:ASP:OD1	2:ZT:105:ASN:N	2.52	0.41
2:ZT:297:ASP:OD2	2:ZT:297:ASP:N	2.53	0.41
2:ZU:188:ASP:OD1	2:ZU:192:ASN:N	2.54	0.41
2:ZV:217:ASP:HA	2:ZV:251:ILE:HD11	2.01	0.41
2:ZV:379:GLN:OE1	2:Za:391:THR:HG23	2.21	0.41
2:ZW:326:LEU:HD22	2:ZW:334:TRP:HB3	2.01	0.41
2:ZW:331:ASP:O	2:ZW:333:VAL:HG23	2.20	0.41
2:ZZ:188:ASP:OD1	2:ZZ:192:ASN:N	2.52	0.41
2:Za:107:ASN:ND2	2:Za:138:THR:HG22	2.36	0.41
2:Za:376:ILE:HG21	2:Zg:393:ASP:OD2	2.21	0.41
2:Zf:41:ASP:OD1	2:Zf:41:ASP:N	2.47	0.41
1:s:3:SER:OG	10:n:20:ALA:HB2	2.20	0.41
1:s:155:GLY:HA2	1:s:214:LEU:HD12	2.03	0.41
1:v:82:SER:OG	1:v:223:ASN:ND2	2.54	0.41
1:w:70:THR:CG2	8:a:76:LEU:O	2.69	0.41
1:x:198:SER:O	1:x:198:SER:OG	2.27	0.41
1:x:248:SER:O	1:x:252:GLN:HG3	2.20	0.41
1:z:83:GLN:NE2	1:z:97:ILE:O	2.36	0.41
3:C:33:LEU:HD12	3:C:33:LEU:HA	1.95	0.41
4:E:44:LEU:CD2	6:P:100:MET:HA	2.51	0.41
4:E:179:ILE:H	4:E:179:ILE:HG13	1.69	0.41
4:E:213:ILE:HG21	5:F:211:MET:O	2.20	0.41
5:G:49:THR:HG21	6:M:89:ARG:HG3	2.03	0.41
5:G:211:MET:HE1	5:H:210:MET:HE2	2.03	0.41
5:G:213:PRO:HA	5:G:214:PRO:HD3	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H:86:ASN:HD22	6:M:103:GLN:HA	1.84	0.41
5:H:189:ILE:HD13	5:H:235:LEU:HD11	2.03	0.41
6:M:48:ARG:NH1	7:S:5:LEU:HD23	2.35	0.41
6:M:86:ILE:HD11	7:R:133:VAL:HG22	2.02	0.41
7:Q:96:ASP:OD1	7:Q:96:ASP:N	2.53	0.41
7:T:117:GLN:NE2	8:Y:125:MET:HG2	2.36	0.41
7:U:121:THR:HG23	8:a:134:GLN:CG	2.51	0.41
8:V:47:VAL:O	9:c:313:PRO:HD2	2.21	0.41
8:W:103:VAL:HG13	10:n:5:ILE:HG12	2.03	0.41
8:X:19:LYS:HD3	10:n:51:LEU:HD12	2.02	0.41
8:Y:49:PHE:CG	9:i:313:PRO:HG3	2.55	0.41
8:a:19:LYS:HD3	10:q:51:LEU:HD21	2.03	0.41
8:a:33:SER:HA	10:q:41:LEU:O	2.20	0.41
8:a:98:VAL:O	8:a:102:MET:HG2	2.21	0.41
10:n:74:THR:OG1	10:n:79:ASP:OD2	2.34	0.41
1:1:5:LEU:HD23	1:1:5:LEU:HA	1.95	0.41
1:1:95:VAL:O	1:1:118:GLY:HA3	2.20	0.41
1:1:179:MET:HE1	1:w:142:ILE:O	2.21	0.41
1:1:260:LEU:O	1:v:245:LYS:NZ	2.45	0.41
1:7:241:GLU:CG	1:ZC:256:LYS:HG3	2.48	0.41
1:8:208:LEU:C	1:8:210:GLY:H	2.28	0.41
2:ZH:269:GLN:HB2	2:ZN:286:PRO:CG	2.47	0.41
2:ZJ:351:GLY:C	2:ZJ:353:PHE:H	2.29	0.41
2:ZJ:387:GLN:CG	2:ZP:400:VAL:HG13	2.50	0.41
2:ZL:34:SER:HB3	2:ZL:366:VAL:HG22	2.02	0.41
2:ZO:167:LYS:HE2	2:ZO:174:ASP:OD2	2.21	0.41
2:ZQ:379:GLN:CG	2:ZV:394:GLN:NE2	2.84	0.41
2:ZV:269:GLN:HG3	2:Zb:286:PRO:CG	2.50	0.41
2:ZW:75:VAL:O	2:ZW:98:GLY:HA3	2.21	0.41
2:ZW:181:LYS:O	2:Zh:131:GLY:HA3	2.20	0.41
2:ZW:373:VAL:HG11	2:Zc:7:VAL:HG22	2.03	0.41
2:ZX:56:GLY:HA2	2:Zc:47:LYS:HZ3	1.84	0.41
2:ZY:24:ILE:HD13	2:ZY:24:ILE:HG21	1.85	0.41
2:Ze:78:SER:O	2:Ze:354:GLY:HA3	2.20	0.41
2:Zf:228:THR:HB	2:Zf:244:VAL:HG21	2.01	0.41
1:t:66:LEU:CD2	10:o:59:ALA:CB	2.95	0.41
1:u:42:GLU:OE1	1:u:73:ARG:NH2	2.54	0.41
1:v:253:MET:HE3	10:q:16:LEU:HD21	1.97	0.41
1:x:3:SER:HB2	10:m:70:GLN:NE2	2.36	0.41
3:D:39:GLN:CB	4:E:211:LEU:HD22	2.50	0.41
3:D:39:GLN:HB3	4:E:211:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:243:LEU:HD23	4:E:243:LEU:HA	1.82	0.41
5:G:171:LEU:O	5:G:175:VAL:HG23	2.21	0.41
5:J:42:VAL:HG21	6:P:46:SER:HB2	2.04	0.41
6:N:69:ASN:HB2	7:T:16:LEU:HD23	2.02	0.41
8:V:22:ASN:HD21	8:a:5:ASN:ND2	2.19	0.41
8:Z:126:MET:O	8:Z:129:THR:HG22	2.21	0.41
8:a:55:PRO:HG2	9:b:320:PRO:CB	2.51	0.41
8:a:113:GLN:CD	10:q:243:ARG:HD3	2.46	0.41
9:k:316:LEU:HD12	9:k:316:LEU:HA	1.87	0.41
1:1:178:PHE:CE1	1:1:201:PRO:HB3	2.50	0.40
1:4:127:GLN:NE2	1:4:141:THR:OG1	2.51	0.40
1:5:260:LEU:HD23	1:5:260:LEU:HA	1.81	0.40
1:7:173:LEU:HD23	1:7:214:LEU:HD13	2.03	0.40
1:7:184:LEU:HB3	1:7:192:TYR:HB3	2.04	0.40
1:ZA:45:LEU:CD1	1:z:83:GLN:CG	2.98	0.40
1:ZA:233:MET:SD	2:ZF:388:THR:CA	3.08	0.40
1:ZA:240:TYR:OH	2:ZF:399:LEU:CD2	2.69	0.40
1:ZB:35:LYS:NZ	1:ZB:220:GLU:OE2	2.53	0.40
1:ZC:10:THR:OG1	1:ZC:72:VAL:O	2.39	0.40
1:ZE:147:LEU:CD2	2:ZJ:352:ASN:HA	2.51	0.40
2:ZG:380:ARG:NH1	2:ZG:383:GLN:OE1	2.54	0.40
2:ZL:379:GLN:CG	2:ZQ:391:THR:HG23	2.51	0.40
2:ZQ:389:ILE:HG22	2:ZV:402:LEU:HD13	2.03	0.40
2:ZS:146:ALA:HB2	2:ZS:286:PRO:HD3	2.02	0.40
2:ZT:22:ASN:HB2	2:ZY:5:GLN:OE1	2.21	0.40
2:ZU:97:ASN:ND2	2:ZU:99:GLN:HB2	2.36	0.40
2:ZU:230:LEU:HD22	2:ZU:238:LEU:HD11	2.03	0.40
2:ZV:46:SER:HB3	2:ZV:48:VAL:HG22	2.03	0.40
2:ZV:368:LEU:HD23	2:ZV:368:LEU:HA	1.84	0.40
2:ZW:230:LEU:HD23	2:ZW:230:LEU:HA	1.85	0.40
2:ZY:144:MET:HG2	2:ZY:145:ALA:O	2.21	0.40
2:ZZ:74:ASP:HB3	2:ZZ:361:LEU:HG	2.03	0.40
2:Zb:308:GLN:NE2	2:Zb:309:GLU:OE1	2.54	0.40
2:Zh:71:ARG:HD3	2:Zh:73:LEU:HB2	2.03	0.40
1:s:74:PRO:HB2	1:x:66:LEU:HD22	2.03	0.40
1:t:3:SER:HB2	8:X:75:LYS:HD3	2.03	0.40
1:t:35:LYS:HA	1:t:35:LYS:HD3	1.91	0.40
1:x:73:ARG:NE	10:m:202:MET:HE2	2.35	0.40
1:x:125:ASN:O	1:x:126:GLY:C	2.64	0.40
1:y:49:ILE:O	1:y:65:GLY:HA3	2.21	0.40
1:z:140:ILE:HD13	1:z:157:VAL:HG21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:24:LEU:HD13	5:J:203:VAL:CG2	2.52	0.40
4:E:214:PHE:CE1	5:I:210:MET:SD	3.14	0.40
7:Q:19:ARG:HD3	7:Q:19:ARG:HA	1.89	0.40
7:S:90:PRO:O	10:o:50:SER:HB2	2.21	0.40
8:W:10:ALA:HB3	8:W:119:LEU:HD13	2.02	0.40
8:Y:8:ASP:C	8:Y:8:ASP:OD2	2.64	0.40
10:m:26:LEU:HA	10:m:26:LEU:HD23	1.86	0.40
10:m:79:ASP:HB3	10:m:206:LEU:CD1	2.51	0.40
10:o:72:ASP:OD2	10:o:72:ASP:C	2.64	0.40
10:p:2:ASP:OD2	10:p:2:ASP:C	2.64	0.40
1:2:100:GLN:NE2	1:2:210:GLY:O	2.43	0.40
1:4:106:MET:HE2	1:4:106:MET:HB3	1.81	0.40
1:5:26:LEU:HB3	1:ZA:243:ASN:OD1	2.20	0.40
1:7:175:LEU:HG	1:7:206:PRO:HG3	2.02	0.40
1:8:35:LYS:HA	1:8:35:LYS:HD3	1.96	0.40
1:ZD:1:MET:HE3	1:ZD:1:MET:HB2	1.68	0.40
1:ZD:208:LEU:HB3	1:ZD:209:ASN:H	1.63	0.40
2:ZF:174:ASP:HB3	2:ZF:176:ASP:OD1	2.21	0.40
2:ZF:319:ASN:OD1	2:ZF:320:PHE:N	2.54	0.40
2:ZL:145:ALA:O	2:ZL:284:TYR:HE1	2.05	0.40
2:ZM:180:LYS:HG3	2:ZM:181:LYS:N	2.37	0.40
2:ZM:380:ARG:CZ	2:ZS:393:ASP:OD1	2.70	0.40
2:ZN:109:VAL:HG12	2:ZN:115:GLN:HA	2.03	0.40
2:ZP:75:VAL:O	2:ZP:98:GLY:HA3	2.21	0.40
2:ZP:85:LEU:HD23	2:ZP:116:LEU:HA	2.03	0.40
2:ZP:150:THR:HG22	2:ZP:282:ASN:HD21	1.87	0.40
2:ZQ:234:GLU:HB3	2:ZW:255:THR:OG1	2.22	0.40
2:ZS:180:LYS:HB2	2:ZS:274:ASN:ND2	2.36	0.40
2:ZT:269:GLN:HG2	2:ZZ:190:GLN:HA	2.02	0.40
2:ZZ:104:GLU:HB3	2:Ze:339:ALA:O	2.21	0.40
2:Zb:380:ARG:HD3	2:Zb:380:ARG:HA	1.90	0.40
2:Zc:269:GLN:HG2	2:Zc:270:ASN:H	1.87	0.40
2:Zd:88:SER:C	2:Zd:90:GLY:H	2.29	0.40
2:Ze:128:ILE:HD11	2:Ze:311:VAL:HG21	2.03	0.40
2:Zg:75:VAL:HG21	2:Zg:294:ILE:HG21	2.02	0.40
1:t:44:LEU:HD21	8:X:78:TYR:CG	2.57	0.40
1:t:195:THR:C	1:t:197:SER:N	2.76	0.40
1:u:164:GLN:C	1:u:166:ALA:N	2.77	0.40
1:v:104:GLN:HB3	1:v:137:GLN:O	2.21	0.40
1:v:260:LEU:HD12	8:Z:106:MET:SD	2.57	0.40
3:A:20:LEU:HD11	3:A:73:LEU:HD21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:23:PRO:HG2	3:D:69:MET:HE2	2.03	0.40
4:E:102:ILE:O	4:E:106:MET:HG2	2.21	0.40
4:E:231:ALA:O	4:E:234:PRO:HD2	2.21	0.40
5:H:189:ILE:O	5:H:192:PRO:HD2	2.21	0.40
8:Z:45:LYS:C	8:Z:46:GLN:HG2	2.46	0.40
8:a:50:GLN:OE1	8:a:63:LYS:NZ	2.46	0.40
8:a:55:PRO:HG2	9:b:320:PRO:HB3	2.03	0.40
10:m:82:LEU:HD21	10:m:88:LEU:HD12	2.04	0.40
10:p:89:VAL:HG22	10:p:99:TYR:HD1	1.86	0.40
1:1:179:MET:HE2	1:w:126:GLY:CA	2.51	0.40
1:2:58:GLU:CD	10:m:140:ASP:OD2	2.64	0.40
1:3:74:PRO:HB2	1:8:66:LEU:CD1	2.52	0.40
1:6:22:ILE:HD11	1:6:232:ASN:HB3	2.03	0.40
1:6:208:LEU:O	1:6:209:ASN:HB2	2.21	0.40
1:7:119:SER:OG	1:ZC:38:ARG:NH2	2.54	0.40
1:8:73:ARG:HG3	1:x:218:TYR:OH	2.21	0.40
1:8:86:LEU:HD22	1:8:96:ALA:HB1	2.03	0.40
1:ZB:116:ARG:HH21	1:ZB:220:GLU:CD	2.28	0.40
2:ZF:205:ASP:OD1	2:ZL:252:ASN:HA	2.22	0.40
2:ZI:159:ASN:HB3	2:ZI:162:ASP:OD1	2.22	0.40
2:ZP:292:TYR:CD1	2:ZP:292:TYR:C	3.00	0.40
2:ZQ:97:ASN:HD22	2:ZQ:332:ASN:HD21	1.70	0.40
2:ZS:181:LYS:HD3	2:Zd:129:GLN:HE22	1.85	0.40
2:ZT:200:PHE:HZ	2:ZT:263:PHE:HE2	1.69	0.40
2:ZT:270:ASN:N	2:ZZ:190:GLN:O	2.50	0.40
2:ZT:328:SER:OG	2:ZY:43:PHE:CD2	2.65	0.40
2:ZU:281:GLN:NE2	2:ZU:283:GLY:O	2.53	0.40
2:ZU:330:GLY:N	2:ZZ:43:PHE:HB2	2.36	0.40
2:ZW:17:LEU:HD23	2:ZW:17:LEU:HA	1.94	0.40
2:ZW:78:SER:O	2:ZW:354:GLY:HA3	2.22	0.40
2:ZW:330:GLY:N	2:Zb:43:PHE:HB2	2.36	0.40
2:Za:204:LYS:HG2	2:Za:205:ASP:H	1.86	0.40
2:Ze:30:TYR:HD1	2:Ze:363:ALA:HA	1.86	0.40
2:Ze:38:SER:O	2:Ze:55:ALA:N	2.52	0.40
2:Ze:71:ARG:NH2	2:Ze:74:ASP:OD1	2.54	0.40
2:Zf:58:THR:HG23	2:Zf:324:GLU:HG2	2.02	0.40
2:Zh:99:GLN:HE21	2:Zh:361:LEU:HD22	1.86	0.40
2:Zh:324:GLU:OE2	2:Zh:324:GLU:N	2.45	0.40
1:r:44:LEU:HD13	1:r:70:THR:HG22	2.02	0.40
1:s:9:LYS:NZ	10:m:215:GLU:HG3	2.37	0.40
1:s:179:MET:SD	10:n:132:GLY:N	2.95	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:260:LEU:HD21	10:n:234:ILE:HG21	2.03	0.40
1:t:112:SER:HB3	1:t:137:GLN:NE2	2.36	0.40
1:v:12:LEU:HD12	10:p:214:VAL:CG1	2.51	0.40
1:x:130:THR:OG1	1:x:131:ALA:N	2.54	0.40
1:z:178:PHE:CE1	1:z:201:PRO:HB3	2.56	0.40
1:z:193:ILE:HD12	10:o:152:PRO:HD2	2.00	0.40
3:A:4:GLU:O	3:A:5:SER:C	2.65	0.40
3:B:39:GLN:NE2	3:B:49:LEU:HD12	2.30	0.40
3:B:74:LEU:HD22	5:H:229:VAL:HG12	2.03	0.40
4:E:13:LEU:O	4:E:17:PHE:HB2	2.22	0.40
4:E:176:GLY:HA2	4:E:179:ILE:CD1	2.49	0.40
5:G:69:ILE:HG12	5:H:83:ALA:O	2.22	0.40
1:2:257:LEU:CG	1:r:230:LEU:HD12	2.46	0.40
1:3:155:GLY:HA2	1:3:214:LEU:HD12	2.04	0.40
1:5:257:LEU:HG	1:u:230:LEU:HD13	1.96	0.40
1:6:85:ASN:OD1	2:ZH:50:LEU:HD22	2.22	0.40
1:8:38:ARG:NH1	1:8:228:GLU:OE2	2.55	0.40
1:ZD:3:SER:O	1:ZD:4:SER:C	2.64	0.40
1:ZD:173:LEU:HD23	1:ZD:214:LEU:HD13	2.04	0.40
2:ZI:233:ASN:OD1	2:ZI:237:ILE:N	2.47	0.40
2:ZT:233:ASN:ND2	2:ZT:237:ILE:HB	2.37	0.40
2:ZU:24:ILE:HG23	2:ZZ:384:SER:OG	2.22	0.40
2:ZU:172:VAL:HG11	2:ZU:223:PRO:HD2	2.03	0.40
2:ZU:206:ASN:OD1	2:Za:252:ASN:O	2.40	0.40
2:ZV:331:ASP:HA	2:Za:40:ALA:HB1	2.03	0.40
2:ZX:230:LEU:HD11	2:ZX:263:PHE:HD2	1.87	0.40
2:Za:368:LEU:O	2:Za:372:LEU:N	2.47	0.40
2:Za:395:ILE:HD13	2:Za:395:ILE:HA	1.88	0.40
2:Zc:299:THR:HA	2:Zc:314:GLN:HA	2.02	0.40
2:Zd:183:THR:HG23	2:Zd:195:ASP:OD2	2.21	0.40
2:Zd:322:ASN:HB3	2:Zd:340:SER:HA	2.04	0.40
2:Ze:84:ARG:C	2:Ze:85:LEU:HD12	2.46	0.40
2:Zf:284:TYR:CD2	2:Zf:308:GLN:HG3	2.57	0.40
2:Zh:33:LYS:O	2:Zh:59:GLN:NE2	2.54	0.40
1:r:44:LEU:HD12	1:r:44:LEU:H	1.86	0.40
1:s:258:THR:CG2	10:m:229:MET:CG	2.93	0.40
1:t:66:LEU:HD22	1:t:66:LEU:HA	1.94	0.40
1:w:85:ASN:O	1:w:221:THR:OG1	2.32	0.40
1:y:194:GLU:OE2	1:y:201:PRO:HD3	2.21	0.40
1:y:209:ASN:HD22	1:y:209:ASN:HA	1.61	0.40
1:z:73:ARG:HG3	1:z:73:ARG:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:69:MET:HE3	3:A:69:MET:HB3	1.72	0.40
3:A:84:LEU:O	3:A:85:PRO:C	2.63	0.40
4:E:193:LEU:O	4:E:196:THR:OG1	2.25	0.40
5:H:71:PHE:HD1	5:H:71:PHE:HA	1.80	0.40
6:M:92:LEU:HD23	6:M:92:LEU:HA	1.82	0.40
6:N:49:GLN:HE22	6:N:82:MET:HE2	1.86	0.40
7:R:31:ALA:HB1	8:W:13:ALA:HB2	2.04	0.40
8:a:97:ASP:OD1	8:a:97:ASP:N	2.45	0.40
10:p:80:VAL:HB	10:p:201:ILE:HD11	2.04	0.40
1:1:242:ILE:HG21	1:w:26:LEU:HD22	2.04	0.40
1:1:260:LEU:CG	10:q:221:ILE:HD11	2.51	0.40
1:4:1:MET:HB2	1:y:235:GLN:HG3	2.04	0.40
1:6:256:LYS:HA	1:6:259:GLN:HG2	2.04	0.40
1:8:19:MET:O	1:8:20:ASP:C	2.65	0.40
1:8:238:ARG:CZ	1:ZE:255:GLN:HB2	2.51	0.40
1:9:56:SER:CA	1:t:153:ARG:H	2.35	0.40
1:ZA:45:LEU:HD11	1:z:83:GLN:NE2	2.36	0.40
1:ZC:50:ARG:CZ	1:ZC:62:LEU:HD11	2.52	0.40
1:ZC:257:LEU:HA	1:ZC:260:LEU:HG	2.03	0.40
1:ZD:237:GLN:HA	2:ZI:395:ILE:HD11	2.02	0.40
2:ZH:144:MET:SD	2:ZH:310:GLN:NE2	2.95	0.40
2:ZI:73:LEU:HD23	2:ZI:73:LEU:HA	1.85	0.40
2:ZJ:197:ASN:HD22	2:ZJ:197:ASN:N	2.19	0.40
2:ZO:269:GLN:HE22	2:ZU:146:ALA:H	1.69	0.40
2:ZP:185:THR:HG22	2:ZP:187:TYR:HE1	1.87	0.40
2:ZQ:10:LEU:HA	2:ZQ:10:LEU:HD23	1.78	0.40
2:ZQ:175:ALA:HA	2:ZQ:178:TYR:CZ	2.57	0.40
2:ZS:186:VAL:HG23	2:ZS:194:HIS:HB2	2.02	0.40
2:ZS:380:ARG:NH2	2:ZY:397:ASN:OD1	2.55	0.40
2:ZU:65:THR:HA	2:Zf:50:LEU:HD13	2.04	0.40
2:ZU:299:THR:HG22	2:ZU:314:GLN:OE1	2.21	0.40
2:ZW:380:ARG:HA	2:ZW:380:ARG:HD3	1.65	0.40
2:ZX:104:GLU:H	2:ZX:104:GLU:CD	2.29	0.40
2:ZX:109:VAL:HG12	2:ZX:115:GLN:HA	2.04	0.40
2:Za:190:GLN:HG3	2:Za:254:ALA:HB2	2.03	0.40
2:Zg:17:LEU:HD23	2:Zg:17:LEU:HA	1.97	0.40
2:Zg:396:LEU:HD23	2:Zg:396:LEU:HA	1.78	0.40
1:u:102:PHE:HB3	1:u:114:TYR:HB3	2.04	0.40
1:v:46:TYR:O	10:q:175:ASP:CG	2.65	0.40
1:x:6:TRP:CB	10:m:70:GLN:HB3	2.38	0.40
1:x:136:VAL:O	1:x:137:GLN:C	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:51:PHE:CE2	3:B:55:ILE:HD11	2.56	0.40
6:M:61:LEU:HD22	7:R:50:LYS:CE	2.50	0.40
7:S:92:GLN:NE2	8:Y:19:LYS:HA	2.37	0.40
7:U:106:ARG:HG2	10:q:248:LEU:HD21	2.03	0.40
8:a:35:THR:OG1	8:a:39:GLY:HA2	2.22	0.40
10:o:35:ARG:HE	10:o:101:ARG:HG3	1.87	0.40
10:o:137:ILE:HG22	10:o:201:ILE:HD11	2.03	0.40
10:p:35:ARG:HA	10:p:210:ASN:ND2	2.37	0.40
10:q:49:LEU:O	10:q:50:SER:HB3	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	0	244/260 (94%)	236 (97%)	5 (2%)	3 (1%)	10	40
1	1	248/260 (95%)	238 (96%)	9 (4%)	1 (0%)	30	62
1	2	258/260 (99%)	242 (94%)	14 (5%)	2 (1%)	16	48
1	3	258/260 (99%)	247 (96%)	9 (4%)	2 (1%)	16	48
1	4	258/260 (99%)	245 (95%)	11 (4%)	2 (1%)	16	48
1	5	258/260 (99%)	240 (93%)	15 (6%)	3 (1%)	10	40
1	6	258/260 (99%)	244 (95%)	10 (4%)	4 (2%)	7	35
1	7	258/260 (99%)	244 (95%)	11 (4%)	3 (1%)	10	40
1	8	258/260 (99%)	243 (94%)	12 (5%)	3 (1%)	10	40
1	9	258/260 (99%)	244 (95%)	13 (5%)	1 (0%)	30	62
1	ZA	258/260 (99%)	242 (94%)	13 (5%)	3 (1%)	10	40
1	ZB	258/260 (99%)	243 (94%)	12 (5%)	3 (1%)	10	40
1	ZC	258/260 (99%)	242 (94%)	14 (5%)	2 (1%)	16	48

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	ZD	258/260 (99%)	237 (92%)	18 (7%)	3 (1%)	10	40
1	ZE	258/260 (99%)	242 (94%)	15 (6%)	1 (0%)	30	62
1	r	250/260 (96%)	238 (95%)	11 (4%)	1 (0%)	30	62
1	s	251/260 (96%)	234 (93%)	14 (6%)	3 (1%)	10	40
1	t	252/260 (97%)	234 (93%)	16 (6%)	2 (1%)	16	48
1	u	250/260 (96%)	239 (96%)	9 (4%)	2 (1%)	16	48
1	v	251/260 (96%)	235 (94%)	10 (4%)	6 (2%)	4	29
1	w	239/260 (92%)	231 (97%)	7 (3%)	1 (0%)	30	62
1	x	244/260 (94%)	229 (94%)	10 (4%)	5 (2%)	6	32
1	y	244/260 (94%)	234 (96%)	9 (4%)	1 (0%)	30	62
1	z	244/260 (94%)	239 (98%)	4 (2%)	1 (0%)	30	62
2	ZF	399/403 (99%)	387 (97%)	12 (3%)	0	100	100
2	ZG	399/403 (99%)	389 (98%)	9 (2%)	1 (0%)	36	67
2	ZH	399/403 (99%)	385 (96%)	14 (4%)	0	100	100
2	ZI	399/403 (99%)	387 (97%)	10 (2%)	2 (0%)	24	57
2	ZJ	399/403 (99%)	387 (97%)	12 (3%)	0	100	100
2	ZK	399/403 (99%)	387 (97%)	11 (3%)	1 (0%)	36	67
2	ZL	399/403 (99%)	389 (98%)	9 (2%)	1 (0%)	36	67
2	ZM	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
2	ZN	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
2	ZO	399/403 (99%)	381 (96%)	15 (4%)	3 (1%)	16	48
2	ZP	399/403 (99%)	386 (97%)	12 (3%)	1 (0%)	36	67
2	ZQ	399/403 (99%)	389 (98%)	10 (2%)	0	100	100
2	ZR	399/403 (99%)	391 (98%)	8 (2%)	0	100	100
2	ZS	399/403 (99%)	390 (98%)	9 (2%)	0	100	100
2	ZT	399/403 (99%)	389 (98%)	10 (2%)	0	100	100
2	ZU	399/403 (99%)	387 (97%)	12 (3%)	0	100	100
2	ZV	399/403 (99%)	390 (98%)	9 (2%)	0	100	100
2	ZW	399/403 (99%)	380 (95%)	18 (4%)	1 (0%)	36	67
2	ZX	399/403 (99%)	388 (97%)	11 (3%)	0	100	100
2	ZY	399/403 (99%)	385 (96%)	14 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	ZZ	399/403 (99%)	389 (98%)	10 (2%)	0	100	100
2	Za	399/403 (99%)	386 (97%)	12 (3%)	1 (0%)	36	67
2	Zb	399/403 (99%)	392 (98%)	7 (2%)	0	100	100
2	Zc	399/403 (99%)	390 (98%)	9 (2%)	0	100	100
2	Zd	399/403 (99%)	385 (96%)	14 (4%)	0	100	100
2	Ze	399/403 (99%)	385 (96%)	13 (3%)	1 (0%)	36	67
2	Zf	399/403 (99%)	386 (97%)	13 (3%)	0	100	100
2	Zg	399/403 (99%)	383 (96%)	16 (4%)	0	100	100
2	Zh	399/403 (99%)	391 (98%)	8 (2%)	0	100	100
3	A	87/89 (98%)	81 (93%)	4 (5%)	2 (2%)	5	30
3	B	87/89 (98%)	86 (99%)	1 (1%)	0	100	100
3	C	87/89 (98%)	86 (99%)	1 (1%)	0	100	100
3	D	87/89 (98%)	85 (98%)	2 (2%)	0	100	100
4	E	251/264 (95%)	234 (93%)	15 (6%)	2 (1%)	16	48
5	F	205/245 (84%)	197 (96%)	8 (4%)	0	100	100
5	G	207/245 (84%)	199 (96%)	6 (3%)	2 (1%)	12	43
5	H	206/245 (84%)	201 (98%)	5 (2%)	0	100	100
5	I	206/245 (84%)	199 (97%)	6 (3%)	1 (0%)	24	57
5	J	207/245 (84%)	192 (93%)	10 (5%)	5 (2%)	4	29
6	K	38/104 (36%)	35 (92%)	3 (8%)	0	100	100
6	L	70/104 (67%)	70 (100%)	0	0	100	100
6	M	72/104 (69%)	70 (97%)	2 (3%)	0	100	100
6	N	72/104 (69%)	72 (100%)	0	0	100	100
6	O	72/104 (69%)	72 (100%)	0	0	100	100
6	P	71/104 (68%)	71 (100%)	0	0	100	100
7	Q	115/138 (83%)	114 (99%)	1 (1%)	0	100	100
7	R	104/138 (75%)	103 (99%)	1 (1%)	0	100	100
7	S	104/138 (75%)	103 (99%)	1 (1%)	0	100	100
7	T	106/138 (77%)	104 (98%)	2 (2%)	0	100	100
7	U	102/138 (74%)	101 (99%)	1 (1%)	0	100	100
8	V	131/134 (98%)	122 (93%)	9 (7%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
8	W	130/134 (97%)	123 (95%)	7 (5%)	0	100	100
8	X	131/134 (98%)	124 (95%)	7 (5%)	0	100	100
8	Y	131/134 (98%)	121 (92%)	7 (5%)	3 (2%)	5	30
8	Z	129/134 (96%)	123 (95%)	5 (4%)	1 (1%)	16	48
8	a	131/134 (98%)	124 (95%)	7 (5%)	0	100	100
9	b	11/560 (2%)	9 (82%)	2 (18%)	0	100	100
9	c	14/560 (2%)	12 (86%)	2 (14%)	0	100	100
9	d	18/560 (3%)	18 (100%)	0	0	100	100
9	e	14/560 (2%)	14 (100%)	0	0	100	100
9	f	19/560 (3%)	18 (95%)	1 (5%)	0	100	100
9	g	14/560 (2%)	13 (93%)	1 (7%)	0	100	100
9	h	19/560 (3%)	19 (100%)	0	0	100	100
9	i	14/560 (2%)	14 (100%)	0	0	100	100
9	j	18/560 (3%)	18 (100%)	0	0	100	100
9	k	14/560 (2%)	14 (100%)	0	0	100	100
9	l	19/560 (3%)	19 (100%)	0	0	100	100
10	m	246/251 (98%)	238 (97%)	7 (3%)	1 (0%)	30	62
10	n	247/251 (98%)	242 (98%)	4 (2%)	1 (0%)	30	62
10	o	248/251 (99%)	233 (94%)	13 (5%)	2 (1%)	16	48
10	p	248/251 (99%)	235 (95%)	13 (5%)	0	100	100
10	q	247/251 (98%)	236 (96%)	9 (4%)	2 (1%)	16	48
All	All	22391/29305 (76%)	21536 (96%)	763 (3%)	92 (0%)	31	62

All (92) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	2	209	ASN
1	4	140	ILE
1	5	209	ASN
1	6	139	ALA
1	8	209	ASN
1	ZA	92	SER
1	ZA	209	ASN
1	ZB	164	GLN
2	ZG	46	SER

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Mol	Chain	Res	Type
1	x	90	ASN
3	A	84	LEU
5	J	83	ALA
5	J	87	GLN
10	q	155	VAL
1	0	90	ASN
1	8	165	ALA
1	ZB	165	ALA
1	ZB	209	ASN
1	ZC	209	ASN
1	ZD	209	ASN
1	ZE	209	ASN
2	ZI	375	MET
2	ZO	237	ILE
1	u	127	GLN
1	u	165	ALA
1	v	204	SER
1	x	4	SER
1	z	127	GLN
4	E	167	ASN
4	E	213	ILE
5	G	83	ALA
5	I	160	GLN
5	J	86	ASN
8	Y	54	ALA
10	o	50	SER
10	q	53	THR
1	0	3	SER
1	0	127	GLN
1	2	49	ILE
1	3	49	ILE
1	3	181	ASP
1	4	49	ILE
1	5	49	ILE
1	6	138	PRO
1	7	55	GLN
2	ZK	375	MET
2	ZL	374	ASN
1	r	127	GLN
1	t	198	SER
1	v	164	GLN
1	v	206	PRO

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Mol	Chain	Res	Type
1	x	3	SER
1	x	127	GLN
1	y	127	GLN
5	J	140	ARG
8	Y	58	ALA
1	6	49	ILE
1	6	58	GLU
1	7	49	ILE
1	8	49	ILE
1	9	49	ILE
1	ZA	138	PRO
2	ZO	142	THR
2	ZP	374	ASN
1	s	81	HIS
1	s	127	GLN
1	v	203	GLU
1	w	127	GLN
8	Y	55	PRO
1	1	127	GLN
1	7	210	GLY
1	ZC	139	ALA
1	ZD	139	ALA
1	s	139	ALA
1	t	127	GLN
1	v	127	GLN
3	A	85	PRO
5	G	162	PRO
10	o	52	ALA
2	ZO	375	MET
2	Za	97	ASN
2	Ze	134	PRO
1	v	200	ALA
8	Z	58	ALA
10	m	52	ALA
10	n	52	ALA
2	ZI	325	GLY
2	ZW	75	VAL
1	5	138	PRO
1	x	136	VAL
5	J	229	VAL
1	ZD	138	PRO

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all 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	0	205/215 (95%)	199 (97%)	6 (3%)	37	58
1	1	209/215 (97%)	206 (99%)	3 (1%)	59	70
1	2	215/215 (100%)	214 (100%)	1 (0%)	81	81
1	3	215/215 (100%)	214 (100%)	1 (0%)	81	81
1	4	215/215 (100%)	212 (99%)	3 (1%)	59	70
1	5	215/215 (100%)	211 (98%)	4 (2%)	50	66
1	6	215/215 (100%)	212 (99%)	3 (1%)	59	70
1	7	215/215 (100%)	214 (100%)	1 (0%)	81	81
1	8	215/215 (100%)	210 (98%)	5 (2%)	44	63
1	9	215/215 (100%)	213 (99%)	2 (1%)	70	74
1	ZA	215/215 (100%)	214 (100%)	1 (0%)	81	81
1	ZB	215/215 (100%)	213 (99%)	2 (1%)	70	74
1	ZC	215/215 (100%)	212 (99%)	3 (1%)	59	70
1	ZD	215/215 (100%)	209 (97%)	6 (3%)	38	58
1	ZE	215/215 (100%)	210 (98%)	5 (2%)	44	63
1	r	209/215 (97%)	205 (98%)	4 (2%)	50	66
1	s	210/215 (98%)	202 (96%)	8 (4%)	29	53
1	t	211/215 (98%)	204 (97%)	7 (3%)	33	56
1	u	209/215 (97%)	202 (97%)	7 (3%)	33	56
1	v	210/215 (98%)	204 (97%)	6 (3%)	37	58
1	w	200/215 (93%)	196 (98%)	4 (2%)	48	65
1	x	205/215 (95%)	202 (98%)	3 (2%)	57	69
1	y	205/215 (95%)	200 (98%)	5 (2%)	43	62
1	z	205/215 (95%)	201 (98%)	4 (2%)	48	65
2	ZF	321/323 (99%)	315 (98%)	6 (2%)	50	66
2	ZG	321/323 (99%)	315 (98%)	6 (2%)	50	66

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	ZH	321/323 (99%)	316 (98%)	5 (2%)	55	68
2	ZI	321/323 (99%)	316 (98%)	5 (2%)	55	68
2	ZJ	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZK	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	ZL	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZM	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZN	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	ZO	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZP	321/323 (99%)	317 (99%)	4 (1%)	63	72
2	ZQ	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	ZR	321/323 (99%)	321 (100%)	0	100	100
2	ZS	321/323 (99%)	320 (100%)	1 (0%)	86	84
2	ZT	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	ZU	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	ZV	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	ZW	321/323 (99%)	320 (100%)	1 (0%)	86	84
2	ZX	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	ZY	321/323 (99%)	321 (100%)	0	100	100
2	ZZ	321/323 (99%)	321 (100%)	0	100	100
2	Za	321/323 (99%)	320 (100%)	1 (0%)	86	84
2	Zb	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	Zc	321/323 (99%)	318 (99%)	3 (1%)	70	74
2	Zd	321/323 (99%)	320 (100%)	1 (0%)	86	84
2	Ze	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	Zf	321/323 (99%)	319 (99%)	2 (1%)	78	79
2	Zg	321/323 (99%)	320 (100%)	1 (0%)	86	84
2	Zh	321/323 (99%)	321 (100%)	0	100	100
3	A	74/74 (100%)	67 (90%)	7 (10%)	8	30
3	B	74/74 (100%)	72 (97%)	2 (3%)	39	59
3	C	74/74 (100%)	74 (100%)	0	100	100
3	D	74/74 (100%)	74 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	E	210/221 (95%)	210 (100%)	0	100	100
5	F	177/204 (87%)	174 (98%)	3 (2%)	53	67
5	G	179/204 (88%)	175 (98%)	4 (2%)	45	63
5	H	178/204 (87%)	176 (99%)	2 (1%)	65	73
5	I	178/204 (87%)	175 (98%)	3 (2%)	53	67
5	J	179/204 (88%)	174 (97%)	5 (3%)	38	58
6	K	33/79 (42%)	33 (100%)	0	100	100
6	L	56/79 (71%)	56 (100%)	0	100	100
6	M	58/79 (73%)	58 (100%)	0	100	100
6	N	58/79 (73%)	57 (98%)	1 (2%)	53	67
6	O	58/79 (73%)	58 (100%)	0	100	100
6	P	57/79 (72%)	54 (95%)	3 (5%)	20	45
7	Q	98/113 (87%)	95 (97%)	3 (3%)	35	57
7	R	90/113 (80%)	90 (100%)	0	100	100
7	S	90/113 (80%)	90 (100%)	0	100	100
7	T	91/113 (80%)	91 (100%)	0	100	100
7	U	89/113 (79%)	88 (99%)	1 (1%)	65	73
8	V	104/105 (99%)	104 (100%)	0	100	100
8	W	104/105 (99%)	101 (97%)	3 (3%)	37	58
8	X	104/105 (99%)	102 (98%)	2 (2%)	50	66
8	Y	104/105 (99%)	100 (96%)	4 (4%)	29	53
8	Z	103/105 (98%)	101 (98%)	2 (2%)	50	66
8	a	104/105 (99%)	102 (98%)	2 (2%)	50	66
9	b	8/467 (2%)	7 (88%)	1 (12%)	4	21
9	c	11/467 (2%)	11 (100%)	0	100	100
9	d	14/467 (3%)	12 (86%)	2 (14%)	3	17
9	e	11/467 (2%)	11 (100%)	0	100	100
9	f	15/467 (3%)	15 (100%)	0	100	100
9	g	11/467 (2%)	11 (100%)	0	100	100
9	h	15/467 (3%)	15 (100%)	0	100	100
9	i	11/467 (2%)	11 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	j	14/467 (3%)	13 (93%)	1 (7%)	13	39
9	k	11/467 (2%)	11 (100%)	0	100	100
9	l	15/467 (3%)	14 (93%)	1 (7%)	15	41
10	m	190/193 (98%)	186 (98%)	4 (2%)	47	64
10	n	191/193 (99%)	186 (97%)	5 (3%)	40	60
10	o	192/193 (100%)	190 (99%)	2 (1%)	68	74
10	p	192/193 (100%)	188 (98%)	4 (2%)	47	64
10	q	191/193 (99%)	187 (98%)	4 (2%)	47	64
All	All	18272/23835 (77%)	18039 (99%)	233 (1%)	59	71

All (233) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	0	1	MET
1	0	9	LYS
1	0	36	ARG
1	0	50	ARG
1	0	52	PRO
1	0	73	ARG
1	1	1	MET
1	1	42	GLU
1	1	75	VAL
1	2	179	MET
1	3	43	ASP
1	4	2	ILE
1	4	137	GLN
1	4	209	ASN
1	5	73	ARG
1	5	85	ASN
1	5	109	ASP
1	5	245	LYS
1	6	59	GLN
1	6	78	GLU
1	6	203	GLU
1	7	59	GLN
1	8	17	THR
1	8	100	GLN
1	8	194	GLU
1	8	195	THR

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Mol	Chain	Res	Type
1	8	256	LYS
1	9	66	LEU
1	9	226	VAL
1	ZA	50	ARG
1	ZB	95	VAL
1	ZB	100	GLN
1	ZC	43	ASP
1	ZC	249	THR
1	ZC	260	LEU
1	ZD	1	MET
1	ZD	2	ILE
1	ZD	162	GLN
1	ZD	196	GLN
1	ZD	233	MET
1	ZD	238	ARG
1	ZE	37	GLN
1	ZE	50	ARG
1	ZE	121	GLN
1	ZE	137	GLN
1	ZE	141	THR
2	ZF	134	PRO
2	ZF	154	MET
2	ZF	229	THR
2	ZF	352	ASN
2	ZF	355	LYS
2	ZF	392	GLN
2	ZG	3	PHE
2	ZG	103	ASP
2	ZG	104	GLU
2	ZG	234	GLU
2	ZG	332	ASN
2	ZG	395	ILE
2	ZH	71	ARG
2	ZH	128	ILE
2	ZH	288	ASP
2	ZH	355	LYS
2	ZH	399	LEU
2	ZI	52	VAL
2	ZI	99	GLN
2	ZI	105	ASN
2	ZI	246	ILE
2	ZI	352	ASN

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Mol	Chain	Res	Type
2	ZJ	53	LYS
2	ZJ	96	ARG
2	ZJ	395	ILE
2	ZK	134	PRO
2	ZK	338	GLN
2	ZL	338	GLN
2	ZL	368	LEU
2	ZL	370	LYS
2	ZM	89	ASN
2	ZM	156	ILE
2	ZM	369	SER
2	ZN	396	LEU
2	ZN	402	LEU
2	ZO	141	ASN
2	ZO	235	ASN
2	ZO	237	ILE
2	ZP	288	ASP
2	ZP	333	VAL
2	ZP	369	SER
2	ZP	370	LYS
2	ZQ	367	ASP
2	ZQ	370	LYS
2	ZS	367	ASP
2	ZT	5	GLN
2	ZT	73	LEU
2	ZT	133	ASN
2	ZU	237	ILE
2	ZU	380	ARG
2	ZV	397	ASN
2	ZV	399	LEU
2	ZW	42	MET
2	ZX	63	ASP
2	ZX	195	ASP
2	Za	96	ARG
2	Zb	36	THR
2	Zb	89	ASN
2	Zb	331	ASP
2	Zc	369	SER
2	Zc	370	LYS
2	Zc	399	LEU
2	Zd	397	ASN
2	Ze	96	ARG

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Mol	Chain	Res	Type
2	Ze	395	ILE
2	Zf	395	ILE
2	Zf	396	LEU
2	Zg	375	MET
1	r	36	ARG
1	r	44	LEU
1	r	106	MET
1	r	256	LYS
1	s	6	TRP
1	s	16	GLN
1	s	17	THR
1	s	128	LEU
1	s	137	GLN
1	s	138	PRO
1	s	251	ASP
1	s	257	LEU
1	t	1	MET
1	t	66	LEU
1	t	100	GLN
1	t	135	GLN
1	t	179	MET
1	t	195	THR
1	t	208	LEU
1	u	4	SER
1	u	61	THR
1	u	173	LEU
1	u	179	MET
1	u	181	ASP
1	u	194	GLU
1	u	195	THR
1	v	73	ARG
1	v	127	GLN
1	v	140	ILE
1	v	161	GLN
1	v	198	SER
1	v	206	PRO
1	w	5	LEU
1	w	100	GLN
1	w	137	GLN
1	w	203	GLU
1	x	1	MET
1	x	73	ARG

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Mol	Chain	Res	Type
1	x	170	VAL
1	y	1	MET
1	y	36	ARG
1	y	50	ARG
1	y	208	LEU
1	y	209	ASN
1	z	1	MET
1	z	3	SER
1	z	179	MET
1	z	252	GLN
3	A	7	MET
3	A	15	LYS
3	A	69	MET
3	A	73	LEU
3	A	75	ASP
3	A	85	PRO
3	A	87	ILE
3	B	2	THR
3	B	6	VAL
5	F	160	GLN
5	F	190	PHE
5	F	217	ILE
5	G	48	ILE
5	G	140	ARG
5	G	160	GLN
5	G	162	PRO
5	H	135	ARG
5	H	152	ARG
5	I	152	ARG
5	I	187	PHE
5	I	241	GLN
5	J	65	THR
5	J	67	ILE
5	J	140	ARG
5	J	144	GLU
5	J	230	ASP
6	N	97	GLN
6	P	57	GLU
6	P	91	LYS
6	P	102	MET
7	Q	53	MET
7	Q	101	ASP

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Mol	Chain	Res	Type
7	Q	125	SER
7	U	104	ARG
8	W	3	LEU
8	W	46	GLN
8	W	126	MET
8	X	119	LEU
8	X	128	LYS
8	Y	3	LEU
8	Y	4	LEU
8	Y	75	LYS
8	Y	101	GLU
8	Z	6	ILE
8	Z	127	LEU
8	a	38	ASP
8	a	123	LYS
9	b	322	PRO
9	d	318	ASN
9	d	319	GLN
9	j	319	GLN
9	l	318	ASN
10	m	37	GLN
10	m	39	ASN
10	m	123	GLU
10	m	247	LEU
10	n	49	LEU
10	n	53	THR
10	n	153	ASN
10	n	201	ILE
10	n	225	ARG
10	o	184	GLU
10	o	200	ARG
10	p	47	ASP
10	p	49	LEU
10	p	160	ARG
10	p	189	ARG
10	q	51	LEU
10	q	146	LEU
10	q	155	VAL
10	q	163	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (652) such sidechains are listed below:

Mol	Chain	Res	Type
1	0	16	GLN
1	0	32	ASN
1	0	47	GLN
1	0	90	ASN
1	0	135	GLN
1	0	137	GLN
1	0	180	ASN
1	0	255	GLN
1	1	67	GLN
1	1	83	GLN
1	1	85	ASN
1	1	162	GLN
1	1	237	GLN
1	1	252	GLN
1	2	51	GLN
1	2	83	GLN
1	2	145	ASN
1	2	164	GLN
1	2	235	GLN
1	2	255	GLN
1	3	32	ASN
1	3	37	GLN
1	3	67	GLN
1	3	88	GLN
1	3	121	GLN
1	3	137	GLN
1	3	255	GLN
1	4	32	ASN
1	4	37	GLN
1	4	81	HIS
1	4	88	GLN
1	4	104	GLN
1	4	125	ASN
1	4	127	GLN
1	4	174	ASN
1	4	216	GLN
1	4	235	GLN
1	4	255	GLN
1	5	55	GLN
1	5	100	GLN
1	5	121	GLN
1	5	237	GLN
1	5	255	GLN

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Mol	Chain	Res	Type
1	6	59	GLN
1	6	91	ASN
1	6	127	GLN
1	6	135	GLN
1	6	137	GLN
1	6	161	GLN
1	6	209	ASN
1	6	237	GLN
1	7	55	GLN
1	7	81	HIS
1	7	125	ASN
1	7	164	GLN
1	7	190	ASN
1	7	235	GLN
1	8	83	GLN
1	8	172	GLN
1	8	209	ASN
1	8	255	GLN
1	9	37	GLN
1	9	85	ASN
1	9	88	GLN
1	9	91	ASN
1	9	127	GLN
1	9	259	GLN
1	ZA	32	ASN
1	ZA	37	GLN
1	ZA	81	HIS
1	ZA	83	GLN
1	ZA	137	GLN
1	ZA	235	GLN
1	ZB	24	ASN
1	ZB	25	ASN
1	ZB	28	ASN
1	ZB	37	GLN
1	ZB	135	GLN
1	ZB	137	GLN
1	ZB	237	GLN
1	ZB	243	ASN
1	ZC	16	GLN
1	ZC	37	GLN
1	ZC	55	GLN
1	ZC	83	GLN

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Mol	Chain	Res	Type
1	ZC	88	GLN
1	ZC	100	GLN
1	ZC	125	ASN
1	ZC	127	GLN
1	ZC	137	GLN
1	ZC	202	ASN
1	ZC	243	ASN
1	ZC	255	GLN
1	ZD	24	ASN
1	ZD	32	ASN
1	ZD	67	GLN
1	ZD	88	GLN
1	ZD	91	ASN
1	ZD	124	GLN
1	ZD	135	GLN
1	ZD	237	GLN
1	ZE	24	ASN
1	ZE	67	GLN
1	ZE	85	ASN
1	ZE	91	ASN
1	ZE	121	GLN
1	ZE	252	GLN
2	ZF	5	GLN
2	ZF	107	ASN
2	ZF	155	GLN
2	ZF	194	HIS
2	ZF	197	ASN
2	ZF	280	ASN
2	ZF	282	ASN
2	ZF	310	GLN
2	ZF	358	ASN
2	ZF	385	ASN
2	ZF	392	GLN
2	ZF	401	ASN
2	ZG	22	ASN
2	ZG	89	ASN
2	ZG	107	ASN
2	ZG	130	GLN
2	ZG	133	ASN
2	ZG	233	ASN
2	ZG	265	ASN
2	ZG	293	GLN

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Mol	Chain	Res	Type
2	ZG	303	ASN
2	ZG	332	ASN
2	ZG	385	ASN
2	ZG	387	GLN
2	ZG	394	GLN
2	ZH	157	ASN
2	ZH	206	ASN
2	ZH	252	ASN
2	ZH	296	ASN
2	ZH	329	GLN
2	ZH	352	ASN
2	ZH	365	ASN
2	ZH	379	GLN
2	ZI	22	ASN
2	ZI	79	GLN
2	ZI	89	ASN
2	ZI	130	GLN
2	ZI	197	ASN
2	ZI	245	ASN
2	ZI	252	ASN
2	ZI	265	ASN
2	ZI	269	GLN
2	ZI	310	GLN
2	ZI	385	ASN
2	ZI	392	GLN
2	ZI	394	GLN
2	ZI	401	ASN
2	ZJ	22	ASN
2	ZJ	89	ASN
2	ZJ	133	ASN
2	ZJ	159	ASN
2	ZJ	197	ASN
2	ZJ	265	ASN
2	ZJ	282	ASN
2	ZJ	293	GLN
2	ZJ	310	GLN
2	ZJ	379	GLN
2	ZJ	385	ASN
2	ZJ	392	GLN
2	ZJ	401	ASN
2	ZK	89	ASN
2	ZK	99	GLN

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Mol	Chain	Res	Type
2	ZK	107	ASN
2	ZK	197	ASN
2	ZK	252	ASN
2	ZK	270	ASN
2	ZK	274	ASN
2	ZK	303	ASN
2	ZK	319	ASN
2	ZK	332	ASN
2	ZK	379	GLN
2	ZK	392	GLN
2	ZK	401	ASN
2	ZL	5	GLN
2	ZL	99	GLN
2	ZL	179	ASN
2	ZL	190	GLN
2	ZL	197	ASN
2	ZL	252	ASN
2	ZL	269	GLN
2	ZL	282	ASN
2	ZL	293	GLN
2	ZL	303	ASN
2	ZL	306	ASN
2	ZL	310	GLN
2	ZL	338	GLN
2	ZL	401	ASN
2	ZM	5	GLN
2	ZM	22	ASN
2	ZM	59	GLN
2	ZM	89	ASN
2	ZM	99	GLN
2	ZM	197	ASN
2	ZM	213	HIS
2	ZM	235	ASN
2	ZM	252	ASN
2	ZM	381	ASN
2	ZM	397	ASN
2	ZN	5	GLN
2	ZN	22	ASN
2	ZN	79	GLN
2	ZN	107	ASN
2	ZN	112	GLN
2	ZN	129	GLN

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Mol	Chain	Res	Type
2	ZN	133	ASN
2	ZN	157	ASN
2	ZN	190	GLN
2	ZN	197	ASN
2	ZN	213	HIS
2	ZN	270	ASN
2	ZN	293	GLN
2	ZN	310	GLN
2	ZN	319	ASN
2	ZN	332	ASN
2	ZN	379	GLN
2	ZN	381	ASN
2	ZN	385	ASN
2	ZN	394	GLN
2	ZN	401	ASN
2	ZO	5	GLN
2	ZO	22	ASN
2	ZO	89	ASN
2	ZO	141	ASN
2	ZO	235	ASN
2	ZO	268	GLN
2	ZO	296	ASN
2	ZO	322	ASN
2	ZO	332	ASN
2	ZP	11	ASN
2	ZP	107	ASN
2	ZP	129	GLN
2	ZP	194	HIS
2	ZP	213	HIS
2	ZP	245	ASN
2	ZP	270	ASN
2	ZP	293	GLN
2	ZP	314	GLN
2	ZP	322	ASN
2	ZP	338	GLN
2	ZP	379	GLN
2	ZP	381	ASN
2	ZP	385	ASN
2	ZP	392	GLN
2	ZQ	5	GLN
2	ZQ	89	ASN
2	ZQ	97	ASN

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Mol	Chain	Res	Type
2	ZQ	105	ASN
2	ZQ	133	ASN
2	ZQ	141	ASN
2	ZQ	155	GLN
2	ZQ	157	ASN
2	ZQ	197	ASN
2	ZQ	213	HIS
2	ZQ	233	ASN
2	ZQ	265	ASN
2	ZQ	387	GLN
2	ZQ	397	ASN
2	ZR	5	GLN
2	ZR	89	ASN
2	ZR	107	ASN
2	ZR	112	GLN
2	ZR	157	ASN
2	ZR	197	ASN
2	ZR	268	GLN
2	ZR	269	GLN
2	ZR	293	GLN
2	ZR	295	ASN
2	ZR	310	GLN
2	ZR	401	ASN
2	ZS	22	ASN
2	ZS	133	ASN
2	ZS	206	ASN
2	ZS	303	ASN
2	ZS	387	GLN
2	ZS	394	GLN
2	ZT	26	ASN
2	ZT	99	GLN
2	ZT	129	GLN
2	ZT	197	ASN
2	ZT	206	ASN
2	ZT	213	HIS
2	ZT	235	ASN
2	ZT	252	ASN
2	ZT	270	ASN
2	ZT	275	ASN
2	ZT	293	GLN
2	ZT	303	ASN
2	ZT	310	GLN

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Mol	Chain	Res	Type
2	ZT	314	GLN
2	ZT	352	ASN
2	ZU	22	ASN
2	ZU	97	ASN
2	ZU	107	ASN
2	ZU	129	GLN
2	ZU	133	ASN
2	ZU	159	ASN
2	ZU	190	GLN
2	ZU	197	ASN
2	ZU	268	GLN
2	ZU	269	GLN
2	ZU	293	GLN
2	ZU	310	GLN
2	ZU	379	GLN
2	ZU	401	ASN
2	ZV	5	GLN
2	ZV	89	ASN
2	ZV	107	ASN
2	ZV	130	GLN
2	ZV	133	ASN
2	ZV	157	ASN
2	ZV	159	ASN
2	ZV	197	ASN
2	ZV	213	HIS
2	ZV	252	ASN
2	ZV	269	GLN
2	ZV	280	ASN
2	ZV	293	GLN
2	ZV	295	ASN
2	ZV	303	ASN
2	ZV	314	GLN
2	ZV	381	ASN
2	ZV	394	GLN
2	ZW	5	GLN
2	ZW	26	ASN
2	ZW	107	ASN
2	ZW	129	GLN
2	ZW	133	ASN
2	ZW	213	HIS
2	ZW	252	ASN
2	ZW	270	ASN

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Mol	Chain	Res	Type
2	ZW	310	GLN
2	ZW	314	GLN
2	ZW	332	ASN
2	ZX	11	ASN
2	ZX	22	ASN
2	ZX	133	ASN
2	ZX	159	ASN
2	ZX	314	GLN
2	ZX	387	GLN
2	ZX	401	ASN
2	ZY	5	GLN
2	ZY	26	ASN
2	ZY	80	ASN
2	ZY	115	GLN
2	ZY	159	ASN
2	ZY	197	ASN
2	ZY	245	ASN
2	ZY	265	ASN
2	ZY	268	GLN
2	ZY	303	ASN
2	ZY	308	GLN
2	ZY	314	GLN
2	ZY	332	ASN
2	ZY	392	GLN
2	ZZ	5	GLN
2	ZZ	99	GLN
2	ZZ	107	ASN
2	ZZ	133	ASN
2	ZZ	194	HIS
2	ZZ	197	ASN
2	ZZ	213	HIS
2	ZZ	293	GLN
2	ZZ	303	ASN
2	ZZ	314	GLN
2	ZZ	332	ASN
2	ZZ	401	ASN
2	Za	129	GLN
2	Za	133	ASN
2	Za	157	ASN
2	Za	190	GLN
2	Za	197	ASN
2	Za	293	GLN

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Mol	Chain	Res	Type
2	Za	332	ASN
2	Za	385	ASN
2	Zb	5	GLN
2	Zb	79	GLN
2	Zb	107	ASN
2	Zb	129	GLN
2	Zb	130	GLN
2	Zb	159	ASN
2	Zb	190	GLN
2	Zb	197	ASN
2	Zb	293	GLN
2	Zb	308	GLN
2	Zb	314	GLN
2	Zb	322	ASN
2	Zb	332	ASN
2	Zb	358	ASN
2	Zb	381	ASN
2	Zb	387	GLN
2	Zb	401	ASN
2	Zc	5	GLN
2	Zc	107	ASN
2	Zc	115	GLN
2	Zc	129	GLN
2	Zc	133	ASN
2	Zc	159	ASN
2	Zc	197	ASN
2	Zc	293	GLN
2	Zc	379	GLN
2	Zc	387	GLN
2	Zc	397	ASN
2	Zd	5	GLN
2	Zd	22	ASN
2	Zd	105	ASN
2	Zd	129	GLN
2	Zd	130	GLN
2	Zd	293	GLN
2	Zd	295	ASN
2	Zd	303	ASN
2	Zd	322	ASN
2	Zd	397	ASN
2	Ze	22	ASN
2	Ze	99	GLN

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Mol	Chain	Res	Type
2	Ze	107	ASN
2	Ze	133	ASN
2	Ze	194	HIS
2	Ze	197	ASN
2	Ze	252	ASN
2	Ze	303	ASN
2	Ze	358	ASN
2	Ze	394	GLN
2	Zf	22	ASN
2	Zf	105	ASN
2	Zf	107	ASN
2	Zf	115	GLN
2	Zf	133	ASN
2	Zf	159	ASN
2	Zf	197	ASN
2	Zf	252	ASN
2	Zf	293	GLN
2	Zf	303	ASN
2	Zf	308	GLN
2	Zf	314	GLN
2	Zf	332	ASN
2	Zf	397	ASN
2	Zg	5	GLN
2	Zg	107	ASN
2	Zg	115	GLN
2	Zg	129	GLN
2	Zg	133	ASN
2	Zg	159	ASN
2	Zg	179	ASN
2	Zg	197	ASN
2	Zg	213	HIS
2	Zg	310	GLN
2	Zg	381	ASN
2	Zg	392	GLN
2	Zh	5	GLN
2	Zh	97	ASN
2	Zh	99	GLN
2	Zh	115	GLN
2	Zh	129	GLN
2	Zh	197	ASN
2	Zh	303	ASN
2	Zh	383	GLN

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Mol	Chain	Res	Type
2	Zh	385	ASN
2	Zh	392	GLN
1	r	47	GLN
1	r	121	GLN
1	r	135	GLN
1	r	161	GLN
1	r	169	GLN
1	r	172	GLN
1	r	223	ASN
1	r	252	GLN
1	s	16	GLN
1	s	28	ASN
1	s	37	GLN
1	s	88	GLN
1	s	169	GLN
1	s	172	GLN
1	s	174	ASN
1	s	180	ASN
1	s	223	ASN
1	s	259	GLN
1	t	85	ASN
1	t	90	ASN
1	t	104	GLN
1	t	127	GLN
1	t	137	GLN
1	t	196	GLN
1	t	223	ASN
1	t	259	GLN
1	u	16	GLN
1	u	32	ASN
1	u	37	GLN
1	u	47	GLN
1	u	162	GLN
1	u	202	ASN
1	u	235	GLN
1	u	252	GLN
1	v	47	GLN
1	v	90	ASN
1	v	127	GLN
1	v	169	GLN
1	v	172	GLN
1	v	174	ASN

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Mol	Chain	Res	Type
1	v	180	ASN
1	v	232	ASN
1	w	28	ASN
1	w	32	ASN
1	w	47	GLN
1	w	121	GLN
1	w	135	GLN
1	w	145	ASN
1	w	172	GLN
1	w	174	ASN
1	w	196	GLN
1	w	223	ASN
1	w	235	GLN
1	x	32	ASN
1	x	37	GLN
1	x	47	GLN
1	x	81	HIS
1	x	83	GLN
1	x	88	GLN
1	x	104	GLN
1	x	127	GLN
1	x	145	ASN
1	x	209	ASN
1	y	16	GLN
1	y	25	ASN
1	y	37	GLN
1	y	51	GLN
1	y	67	GLN
1	y	91	ASN
1	y	125	ASN
1	y	127	GLN
1	y	137	GLN
1	y	196	GLN
1	y	209	ASN
1	y	223	ASN
1	y	252	GLN
1	z	24	ASN
1	z	67	GLN
1	z	125	ASN
1	z	137	GLN
1	z	161	GLN
1	z	162	GLN

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Mol	Chain	Res	Type
3	D	39	GLN
4	E	119	HIS
4	E	141	ASN
4	E	162	ASN
4	E	182	ASN
4	E	205	ASN
5	F	119	GLN
5	F	124	GLN
5	F	141	GLN
5	F	160	GLN
5	G	87	GLN
5	G	124	GLN
5	G	241	GLN
5	H	184	GLN
5	I	160	GLN
5	I	184	GLN
5	J	87	GLN
5	J	114	GLN
5	J	155	ASN
6	K	69	ASN
6	K	83	GLN
6	K	103	GLN
6	M	103	GLN
6	N	87	GLN
6	O	39	HIS
6	O	55	GLN
6	O	83	GLN
6	O	87	GLN
6	P	55	GLN
6	P	87	GLN
7	Q	17	ASN
7	R	21	GLN
7	R	29	ASN
7	R	92	GLN
7	R	98	ASN
7	R	117	GLN
7	S	29	ASN
7	S	32	ASN
7	S	92	GLN
7	T	21	GLN
7	T	32	ASN
7	T	39	GLN

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Mol	Chain	Res	Type
7	T	98	ASN
7	T	117	GLN
7	U	32	ASN
7	U	112	ASN
8	V	30	ASN
8	W	5	ASN
8	W	22	ASN
8	W	30	ASN
8	X	40	GLN
8	X	50	GLN
8	X	57	GLN
8	X	134	GLN
8	Y	22	ASN
8	Y	82	ASN
8	Y	113	GLN
8	Z	17	GLN
8	Z	22	ASN
8	Z	30	ASN
8	a	30	ASN
8	a	57	GLN
8	a	115	ASN
9	b	318	ASN
9	b	319	GLN
9	e	318	ASN
9	e	324	ASN
9	i	318	ASN
9	l	324	ASN
10	m	18	GLN
10	m	37	GLN
10	m	102	ASN
10	m	112	GLN
10	n	18	GLN
10	n	70	GLN
10	n	106	GLN
10	n	116	GLN
10	n	172	GLN
10	n	210	ASN
10	n	223	ASN
10	n	240	ASN
10	o	14	GLN
10	o	18	GLN
10	o	28	ASN

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Mol	Chain	Res	Type
10	o	70	GLN
10	o	83	GLN
10	o	104	ASN
10	o	106	GLN
10	o	186	GLN
10	o	230	GLN
10	p	14	GLN
10	p	17	ASN
10	p	28	ASN
10	p	84	GLN
10	p	104	ASN
10	p	106	GLN
10	p	210	ASN
10	p	240	ASN
10	q	18	GLN
10	q	106	GLN
10	q	112	GLN
10	q	116	GLN
10	q	118	HIS
10	q	153	ASN
10	q	240	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

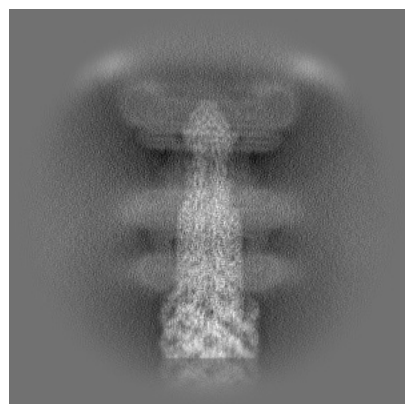
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-37628. These allow visual inspection of the internal detail of the map and identification of artifacts.

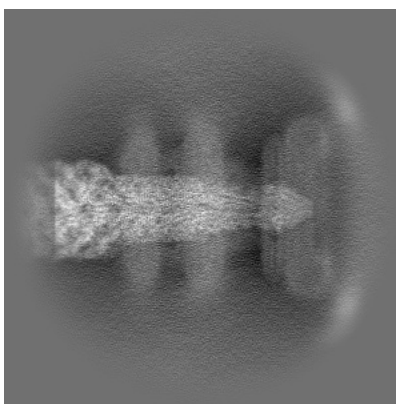
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

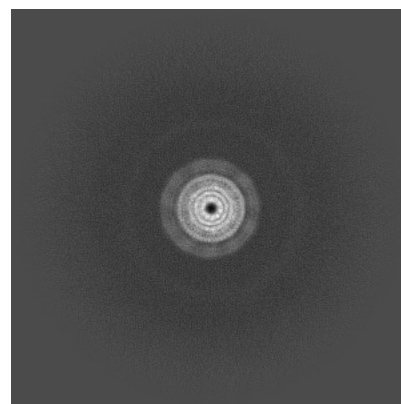
6.1.1 Primary map



X

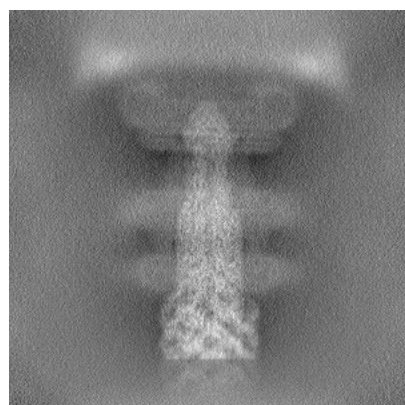


Y

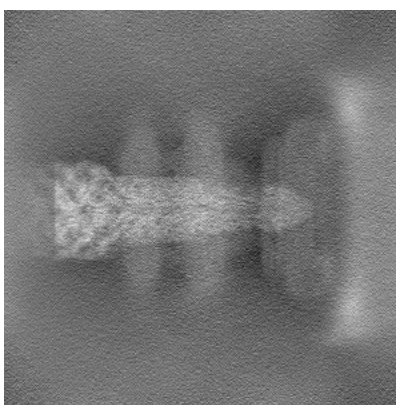


Z

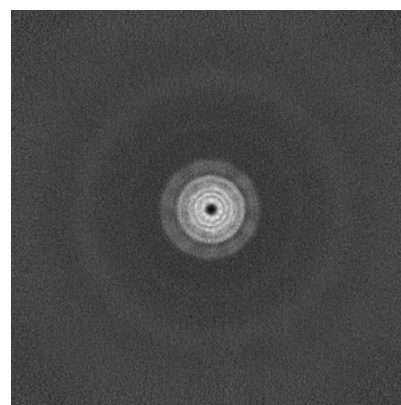
6.1.2 Raw map



X



Y

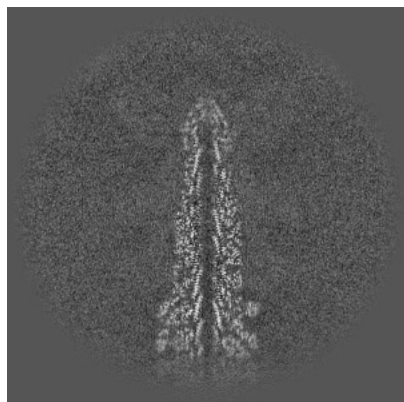


Z

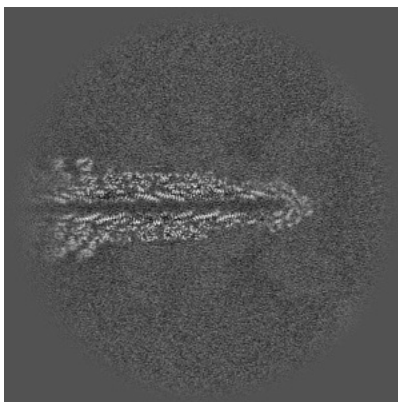
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

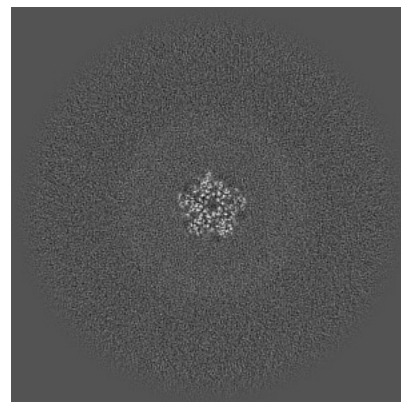
6.2.1 Primary map



X Index: 256

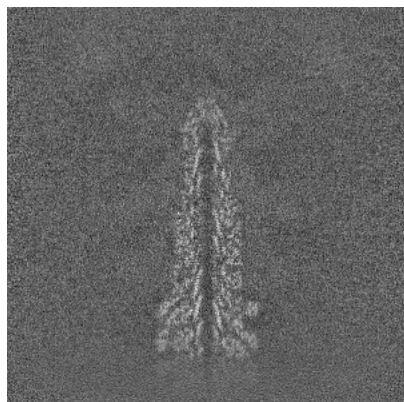


Y Index: 256

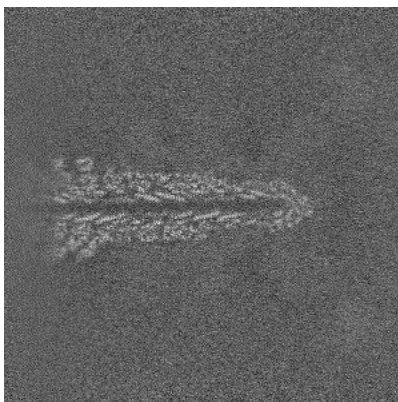


Z Index: 256

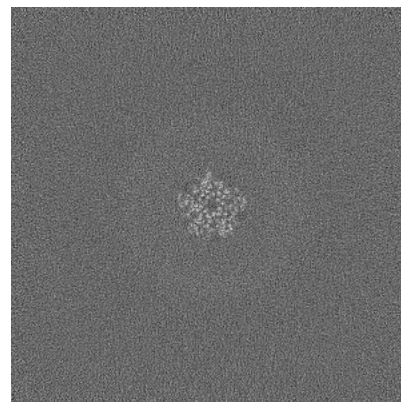
6.2.2 Raw map



X Index: 256



Y Index: 256

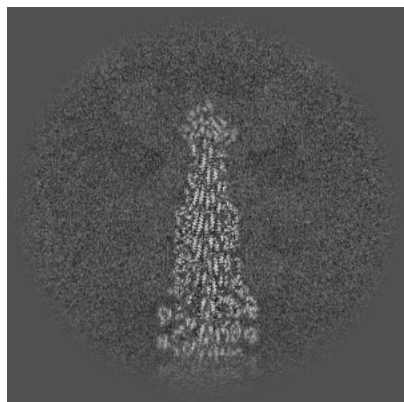


Z Index: 256

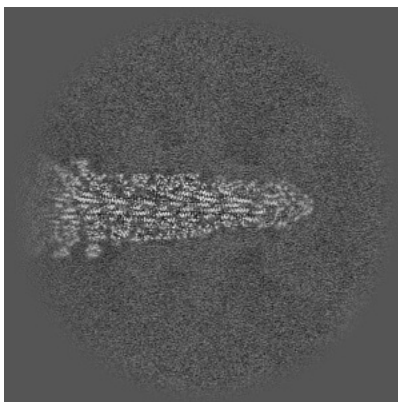
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

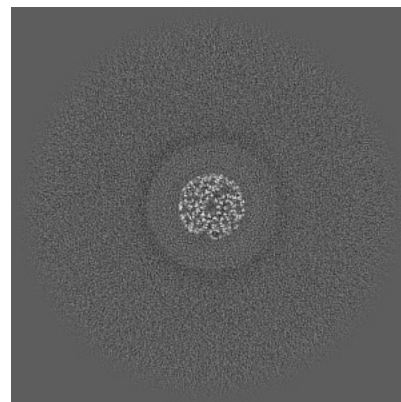
6.3.1 Primary map



X Index: 245

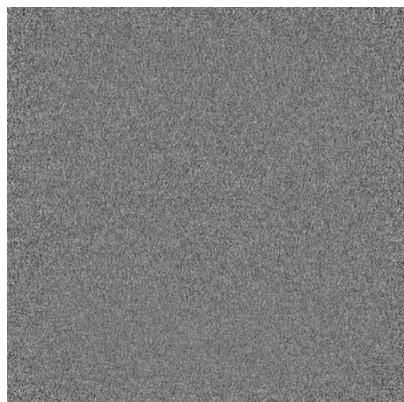


Y Index: 246

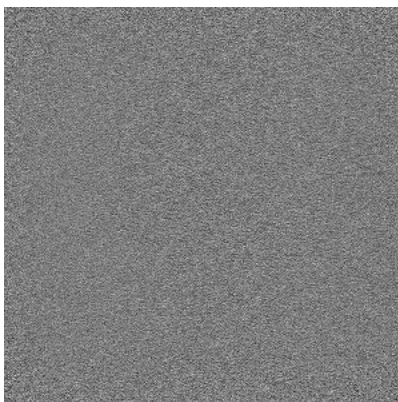


Z Index: 229

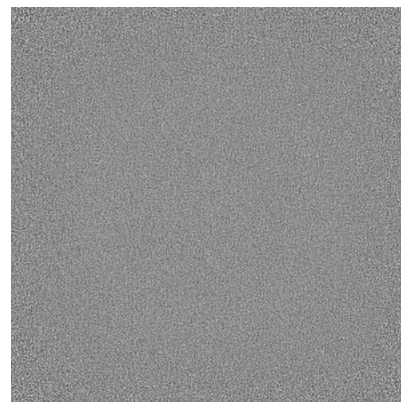
6.3.2 Raw map



X Index: 0



Y Index: 0

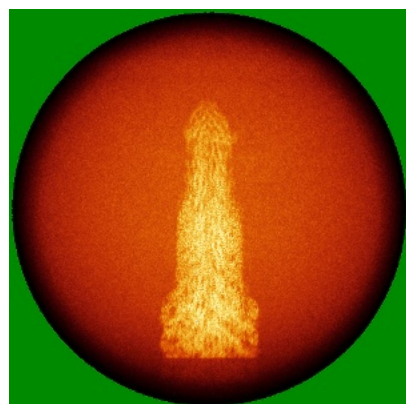


Z Index: 511

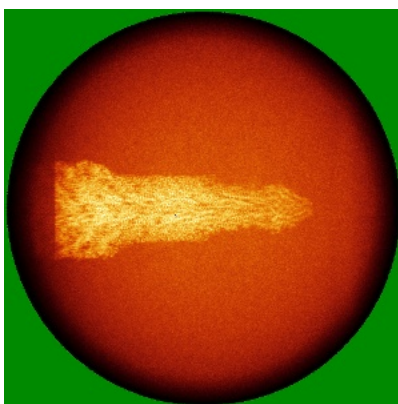
The images above show the largest variance slices of the map in three orthogonal directions.

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

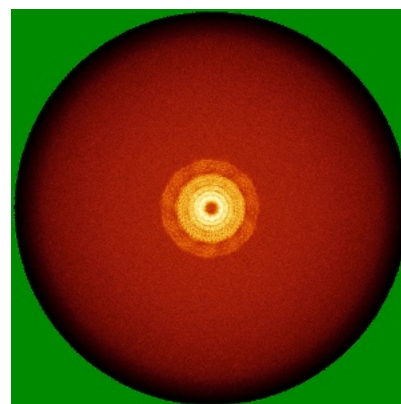
6.4.1 Primary map



X

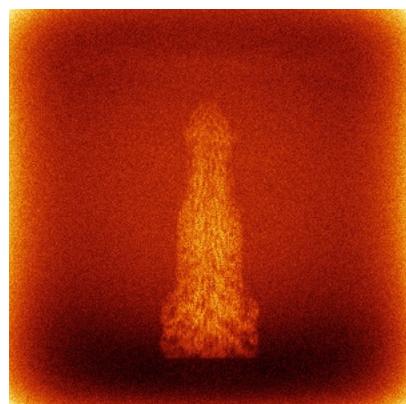


Y

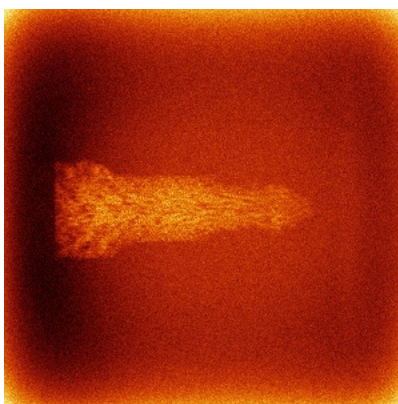


Z

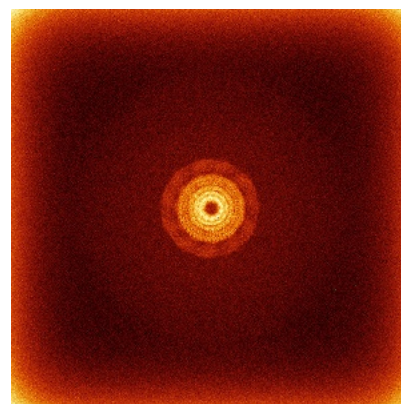
6.4.2 Raw map



X



Y

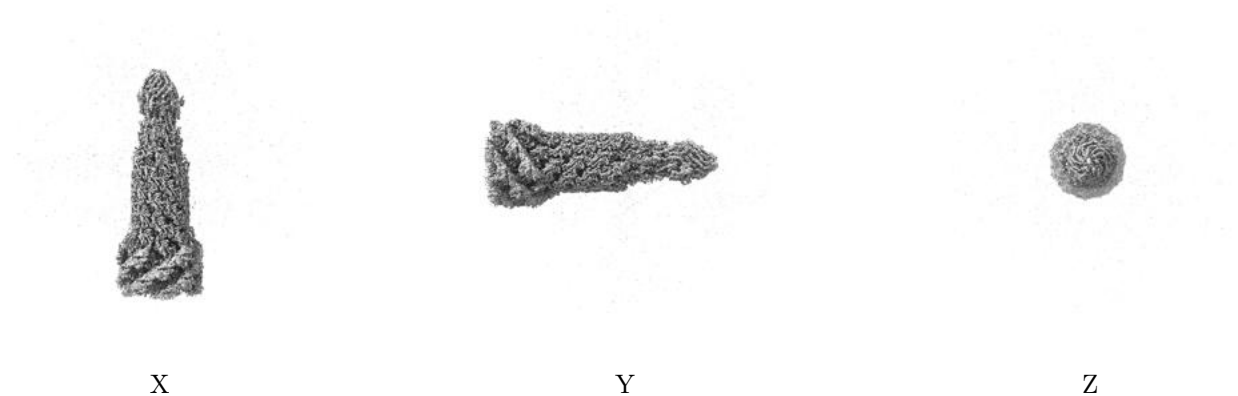


Z

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

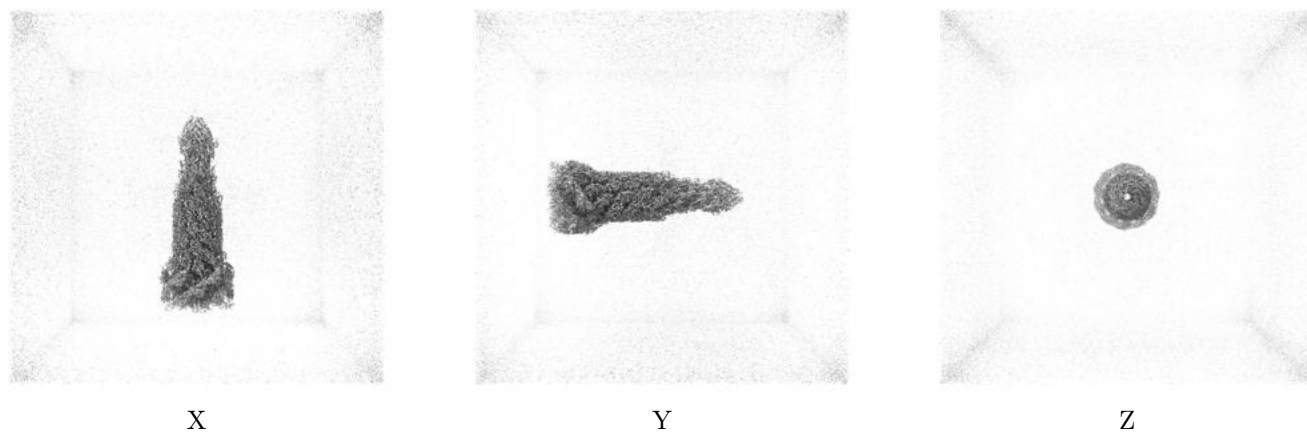
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.65. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

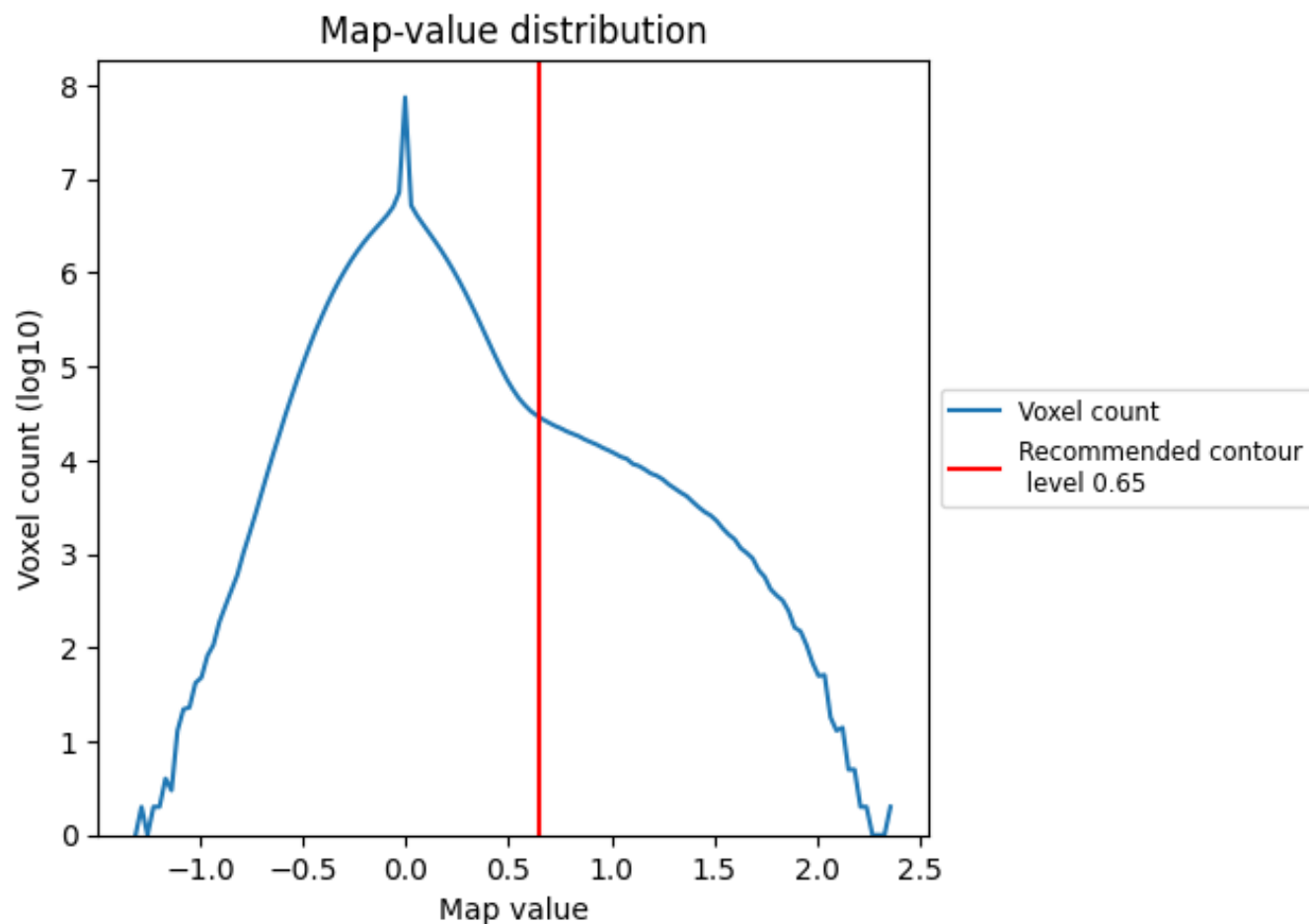
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

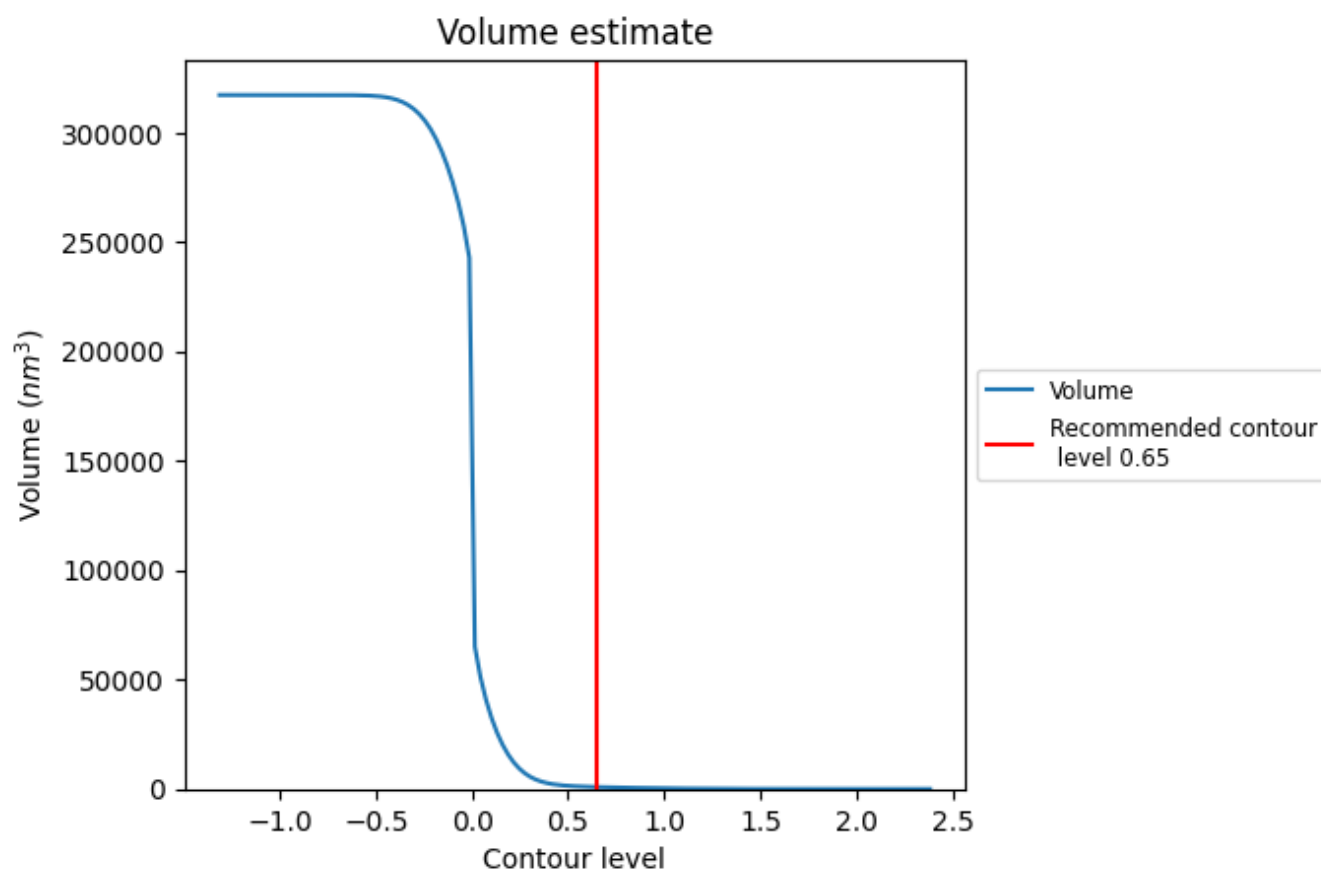
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

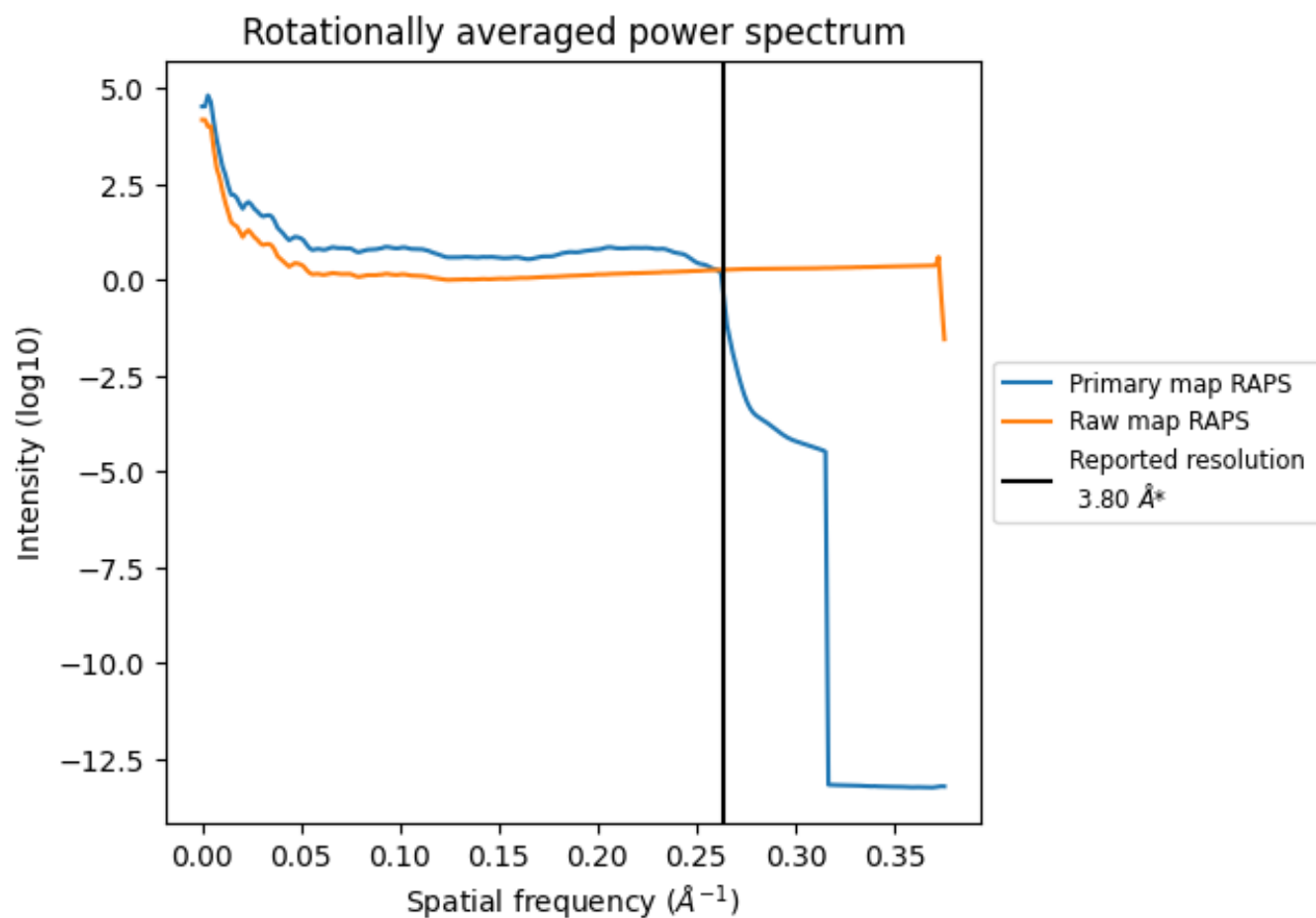
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 871 nm³; this corresponds to an approximate mass of 787 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ

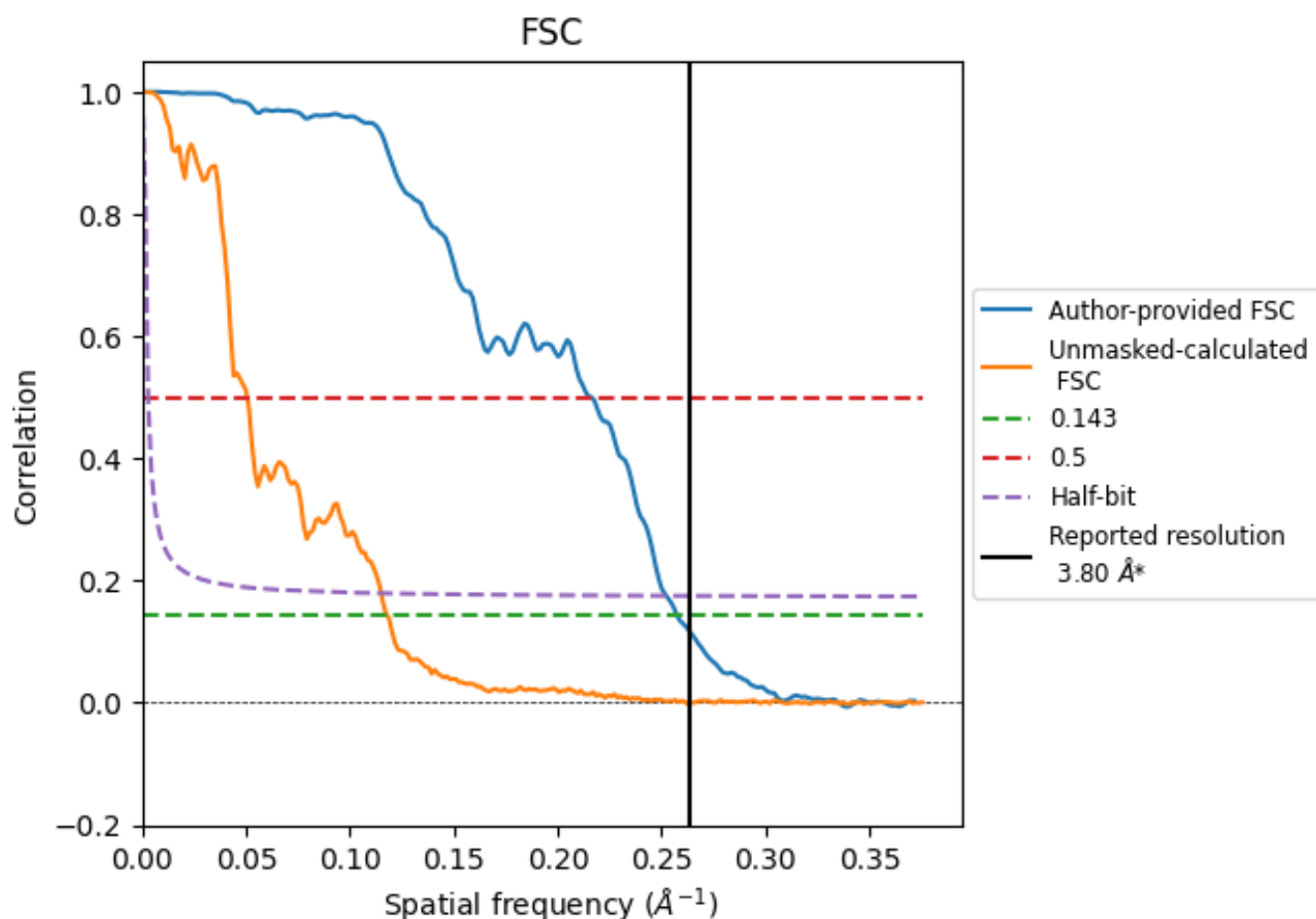


*Reported resolution corresponds to spatial frequency of 0.263 Å⁻¹

8 Fourier-Shell correlation [i](#)

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 [i](#)



*Reported resolution corresponds to spatial frequency of $0.263 \text{ \AA}^{-1}$

8.2 Resolution estimates

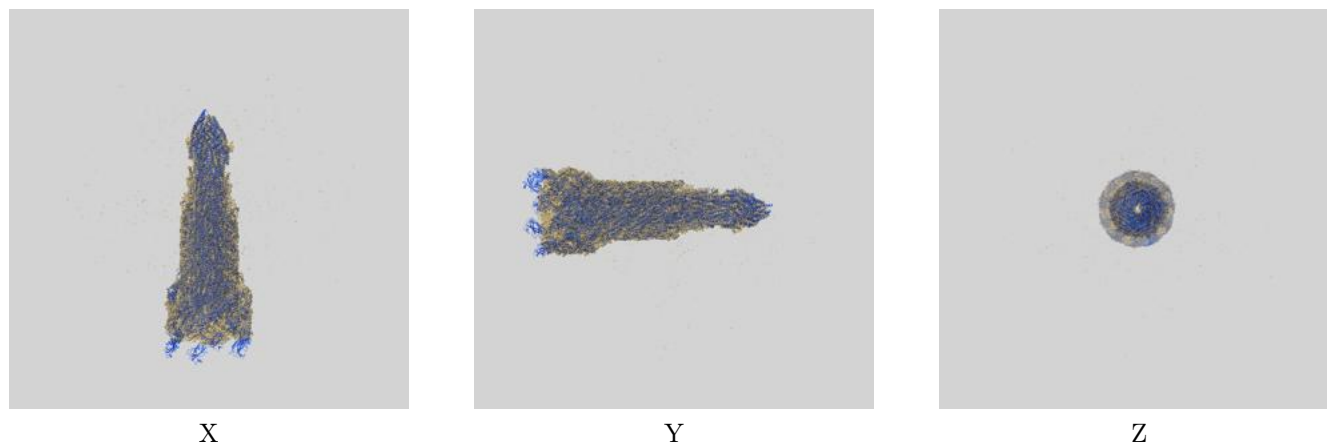
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.80	-	-
Author-provided FSC curve	3.89	4.63	3.97
Unmasked-calculated*	8.49	19.80	8.70

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 8.49 differs from the reported value 3.8 by more than 10 %

9 Map-model fit [i](#)

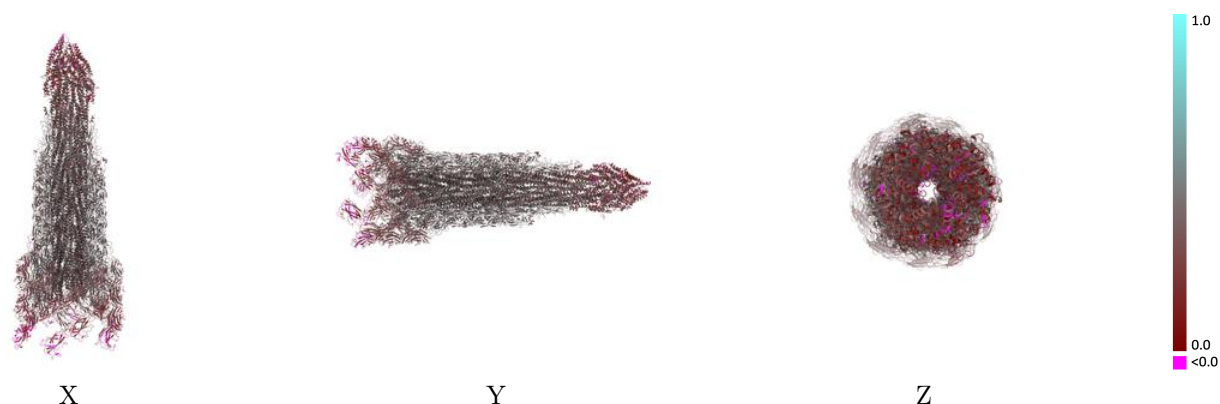
This section contains information regarding the fit between EMDB map EMD-37628 and PDB model 8WLQ. Per-residue inclusion information can be found in section [3](#) on page [13](#).

9.1 Map-model overlay [i](#)



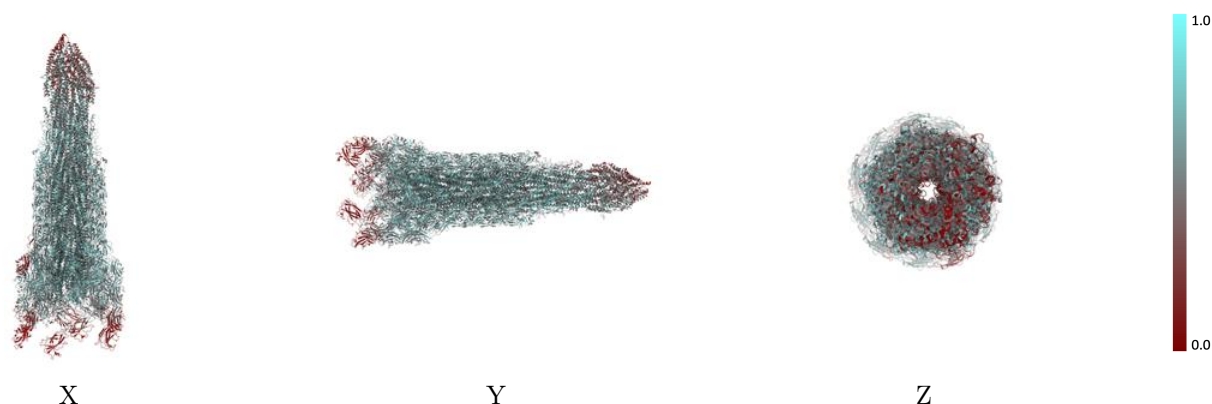
The images above show the 3D surface view of the map at the recommended contour level 0.65 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



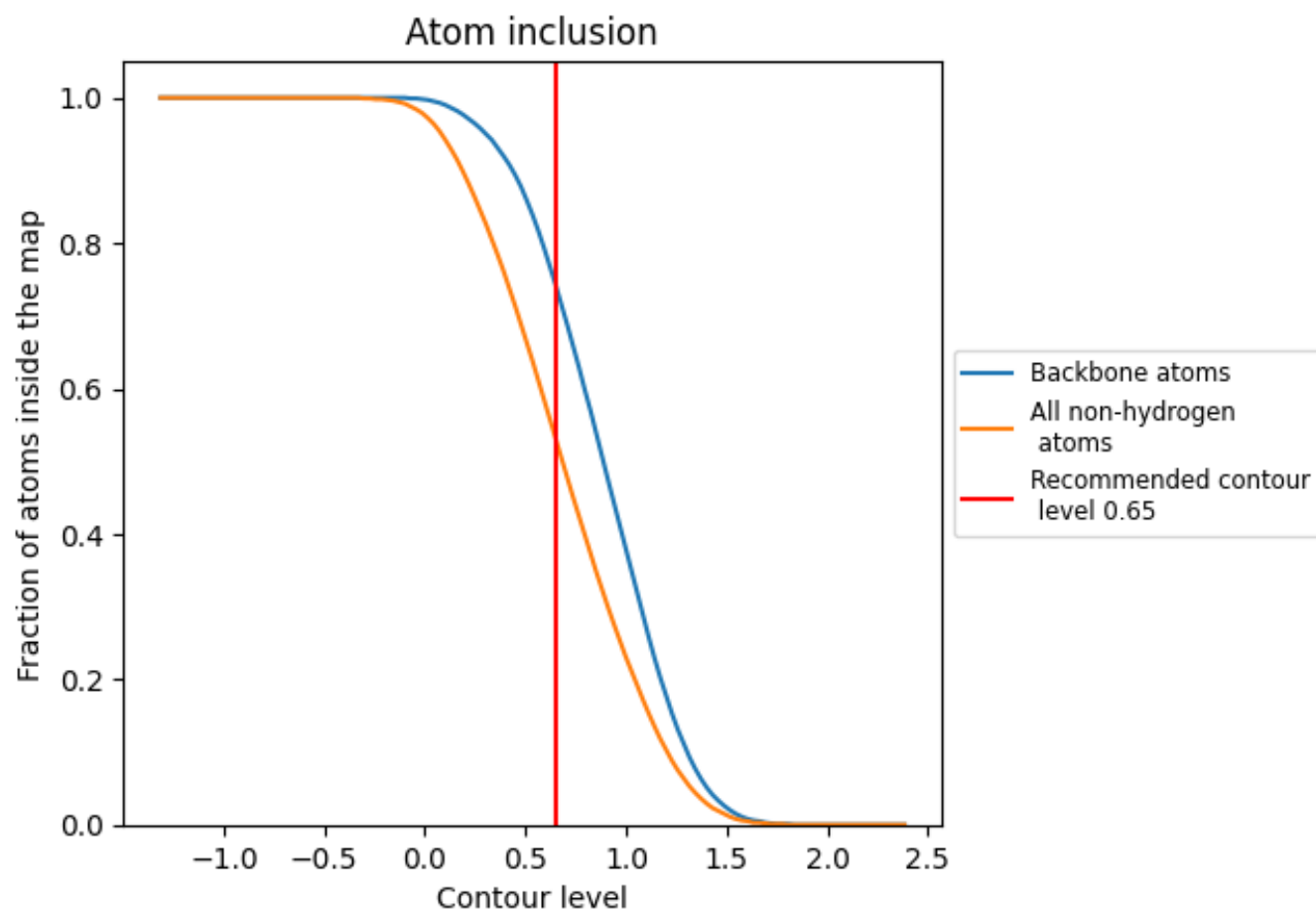
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.65).

9.4 Atom inclusion [i](#)



At the recommended contour level, 74% of all backbone atoms, 53% 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 (0.65) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5300	 0.3500
0	 0.6070	 0.4090
1	 0.5800	 0.4020
2	 0.5900	 0.4060
3	 0.5980	 0.3990
4	 0.6000	 0.3950
5	 0.5870	 0.4010
6	 0.6040	 0.4060
7	 0.5970	 0.4070
8	 0.5940	 0.4040
9	 0.5740	 0.3940
A	 0.1730	 0.1850
B	 0.3560	 0.2400
C	 0.3900	 0.2320
D	 0.3590	 0.1900
E	 0.3230	 0.2250
F	 0.3730	 0.2390
G	 0.4440	 0.2750
H	 0.4670	 0.2980
I	 0.4650	 0.2870
J	 0.4240	 0.2890
K	 0.4440	 0.2800
L	 0.5070	 0.3100
M	 0.5330	 0.3380
N	 0.5530	 0.3390
O	 0.5200	 0.3260
P	 0.5320	 0.3370
Q	 0.4940	 0.3360
R	 0.5870	 0.3710
S	 0.5930	 0.3730
T	 0.6070	 0.3750
U	 0.5700	 0.3680
V	 0.5200	 0.3610
W	 0.5610	 0.3730
X	 0.5850	 0.4010



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Chain	Atom inclusion	Q-score
Y	 0.5810	 0.4000
Z	 0.6090	 0.3980
ZA	 0.5780	 0.3920
ZB	 0.5910	 0.3970
ZC	 0.6080	 0.4120
ZD	 0.5910	 0.4090
ZE	 0.5700	 0.3960
ZF	 0.3840	 0.3220
ZG	 0.5490	 0.3670
ZH	 0.5850	 0.3690
ZI	 0.6000	 0.3760
ZJ	 0.6020	 0.3740
ZK	 0.5880	 0.3660
ZL	 0.5930	 0.3710
ZM	 0.5910	 0.3750
ZN	 0.6010	 0.3710
ZO	 0.6000	 0.3650
ZP	 0.6030	 0.3630
ZQ	 0.5830	 0.3570
ZR	 0.5800	 0.3520
ZS	 0.5890	 0.3550
ZT	 0.5660	 0.3490
ZU	 0.5590	 0.3420
ZV	 0.5520	 0.3350
ZW	 0.5380	 0.3290
ZX	 0.5310	 0.3240
ZY	 0.5000	 0.3190
ZZ	 0.4900	 0.3060
Za	 0.4610	 0.3080
Zb	 0.4190	 0.2820
Zc	 0.4030	 0.2900
Zd	 0.3780	 0.2790
Ze	 0.3450	 0.2630
Zf	 0.3370	 0.2470
Zg	 0.3130	 0.2380
Zh	 0.2950	 0.2350
a	 0.5650	 0.3790
b	 0.3210	 0.3210
c	 0.4470	 0.3630
d	 0.3990	 0.3370
e	 0.6210	 0.4010
f	 0.5500	 0.3570

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Chain	Atom inclusion	Q-score
g	 0.5240	 0.3350
h	 0.6000	 0.4050
i	 0.5530	 0.3420
j	 0.5870	 0.3990
k	 0.4560	 0.2680
l	 0.4860	 0.3280
m	 0.5430	 0.3860
n	 0.6180	 0.4010
o	 0.6160	 0.4150
p	 0.6110	 0.4030
q	 0.5920	 0.3880
r	 0.5490	 0.3830
s	 0.5910	 0.4050
t	 0.6130	 0.4110
u	 0.5920	 0.4070
v	 0.5820	 0.4080
w	 0.5950	 0.4020
x	 0.5890	 0.3990
y	 0.5950	 0.4080
z	 0.5810	 0.3980